

Test Report

Verified code:237903

Report No.:H202008078982-01EN

Customer: Airgain DBA Antenna Plus

Address: No.151, MaoZhu Shan Village, Qiaoli Administration, ChangPing, DongGuan, GuangDong, China. Post Code: 523586

Sample description: See *Project information* on page 4 of the report

Sample model: See *Project information* on page 4 of the report

Reference document: MIL-STD-810G-2008, etc. (see *summary of test results* on page 4 for details)

Receive sample date: Aug.11,2020

Test date: Aug.12,2020 ~ Aug.18,2020

Test result: See *Summary of test results* on page 4 for details

Prepared		Reviewed		Approved	
by	<u>Li Zhiguang</u>	by	<u>LiJianrong</u>	by	<u>Huangyingling</u>
(Engineer)	<u>Li zhiguang</u>	(Supervisor)	<u>Li Jianrong</u>	(Manager)	<u>Huangyingling</u>

GUANGZHOU GRG METROLOGY & TEST CO., LTD

Issued Date: 2020/8/31

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Statement

1. The report is invalid without "special stamp for inspection and testing".
2. Failure to affix "special seal for inspection and testing" to the copy report is invalid, and partial copies are invalid.
3. The report is invalid without the signature and seal of the person preparing, reviewing and approving it.
4. The report is invalid if altered.
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6. This test is only responsible for incoming samples, and the report is only valid for this test.

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Test source	<input checked="" type="checkbox"/> Commissioning test <input type="checkbox"/> Type test <input type="checkbox"/> Finalization test <input type="checkbox"/> Mandatory test <input type="checkbox"/> PV <input type="checkbox"/> DV <input type="checkbox"/> ECV <input type="checkbox"/> Others			
Sample source	<input checked="" type="checkbox"/> Commissioned units send sample <input type="checkbox"/> Others:			
Sample	Model	Quantity	Sample No.	Test No.
See <i>Project information</i> on page 4 of the report	AP-NEXT-C 4W4G-Q-SM A-RP5678-BL-15	23PCS	/	H202008078982-1# ~ H202008078982-23#
Sample components and accessories	Components: / Accessories: /			
Packing status	<input type="checkbox"/> Outer Packing <input checked="" type="checkbox"/> No packing			
Sample quality before test	<input checked="" type="checkbox"/> Conformity product <input type="checkbox"/> Non-conformity product <input type="checkbox"/> Prototype <input type="checkbox"/> Others			
Abnormal condition of sample before test	No abnormalities			
Environment condition	Temperature: 25.4℃~34.4℃ Relative humidity: 45%~55%			
Test address	Dongguan Laboratory:1/F, Building 1, No.6, South Industrial Road, Dongguan Songshan Lake National High-tech Industrial Development Zone (Item 1,2,3,4,5,8) Guangzhou laboratory:163Pingyun Rd, West of Huangpu Ave,Guangzhou (Item 6,7)			

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Project information

Sample description	Model/Type	Specimen quantity	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	23PCS	H202008078982-1# ~ H202008078982-23#

Summary of test results

No.	Item name	Test standard	Test No.	Test result	Page
1	Vibration	MIL-STD-810G-2008	H202008078982-1# H202008078982-2# H202008078982-3#	Meet the requirements	Page 5
2	Shock	IEC 60068-2-27:2008	H202008078982-4# H202008078982-5# H202008078982-6#	Meet the requirements	Page 18
3	Temperature - Humidity	IEC 60068-2-30:2008	H202008078982-7# H202008078982-8# H202008078982-9#	Meet the requirements	Page 33
4	Unpackaged Drop	IEC 60068-2-31:2008	H202008078982-10# H202008078982-11# H202008078982-12#	Don't meet the requirements	Page 45
5	Temperature Shock	IEC 60068-2-14:2009	H202008078982-13# H202008078982-14# H202008078982-15#	Meet the requirements	Page 57
6	IP6X	IEC 60529:2013	H202008078982-16# H202008078982-17# H202008078982-18#	Meet the requirements	Page 68
7	IPX7	IEC 60529:2013	H202008078982-19# H202008078982-20# H202008078982-21#	Meet the requirements	Page 80
8	Operational temperature test	MIL-STD-810G-2008	H202008078982-22# H202008078982-23#	Meet the requirements	Page 91

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1 Vibration

1.1 Test condition

1.1.1 Test basis: MIL-STD-810G-2008, Method 514.6C-1, Figure 514.6 C-1 and Table 514.6 C-II;

1.1.2 Axis: Vertical, transverse, longitudinal;

1.1.3 Test time: 1h per axis;

1.1.4 See below Table 1-1 for Vibration condition.

Table 1-1 Vibration condition

Vertical		Transverse		Longitudinal	
Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)	Frequency (Hz)	PSD (g ² /Hz)
10	0.015	10	0.00013	10	0.0065
40	0.015	20	0.00065	20	0.0065
500	0.00015	30	0.00065	120	0.0002
G _{rms} =1.04g		78	0.00002	121	0.003
		79	0.00019	200	0.003
		120	0.00019	240	0.0015
		500	0.00001	340	0.00003
			G _{rms} =0.20g		500
				G _{rms} =0.74g	

1.2 Sample information

Sample information is shown in Table 1-2.

Table 1-2 Sample information

Sample description	Model/Type	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	H202008078982-1#
		H202008078982-2#
		H202008078982-3#

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1.3 Test requirements

1.3.1 Appearance requirements: After the test, the sample appearance should have no damage, deformation and cracks, etc anomalies;

1.3.2 Function inspection: Inspection by the client.

1.4 Test result

Test results are shown in Table 1-3.

Table1-3 Test result

Sample name	Test No.	Visual inspection	Function inspection	Conclusion
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	H202008078982-1#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-2#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-3#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements

Note: Functions are checked by the client.

1.5 Test photos



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Fig.1-3 Sample installation (Vertical 1#,2#)

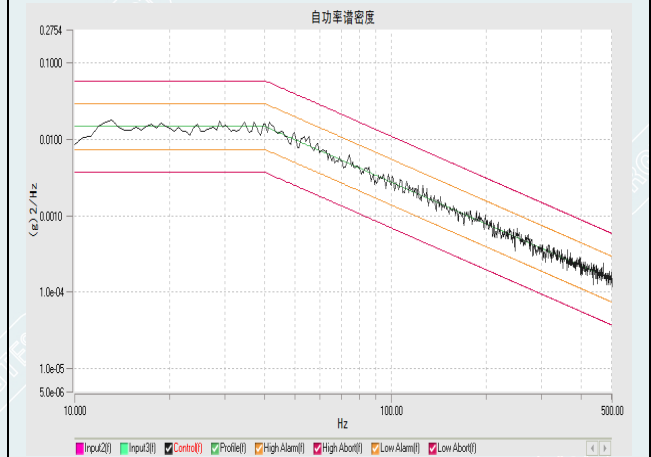


Fig.1-4 Vibration curve (Vertical 1#,2#)

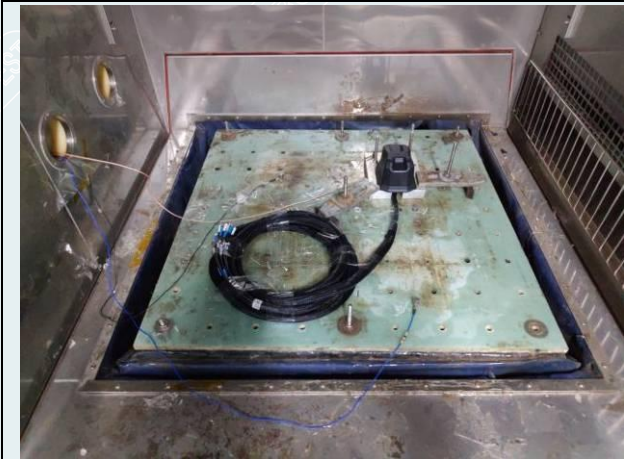


Fig.1-5 Sample installation (Vertical 3#)

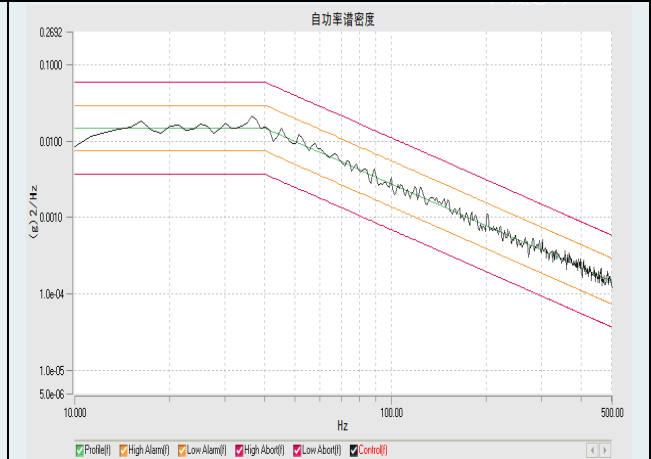


Fig.1-6 Vibration curve (Vertical 3#)



Fig.1-7 Sample installation (Transverse 1#,2#)

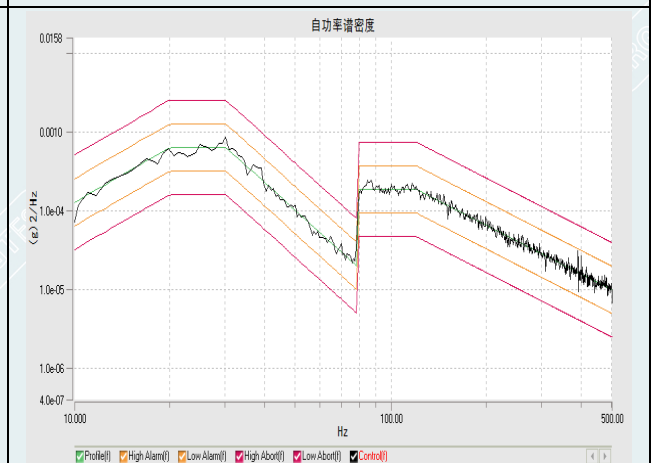


Fig.1-8 Vibration curve (Transverse 1#,2#)

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Fig.1-9 Sample installation (Transverse 3#)

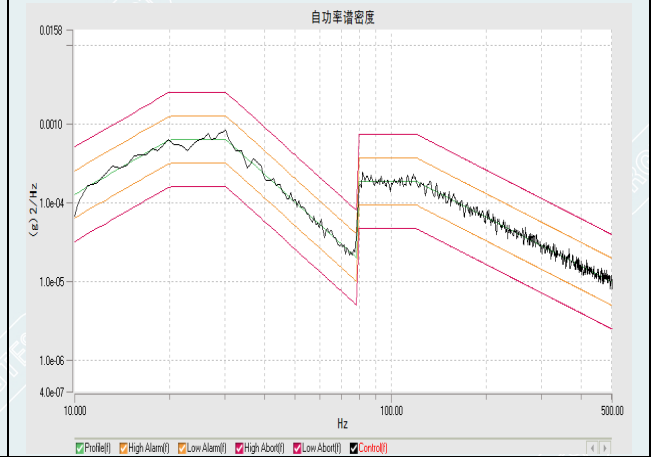


Fig.1-10 Vibration curve (Transverse 3#)



Fig.1-11 Sample installation (Longitudinal 1#,2#)

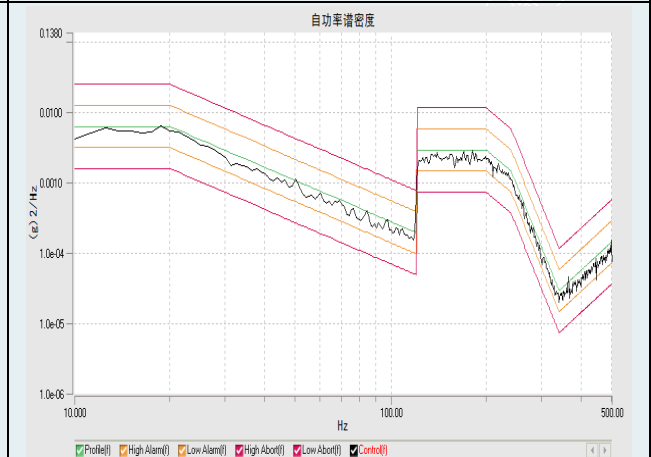


Fig.1-12 Vibration curve (Longitudinal 1#,2#)



Fig.1-13 Sample installation (Longitudinal 3#)

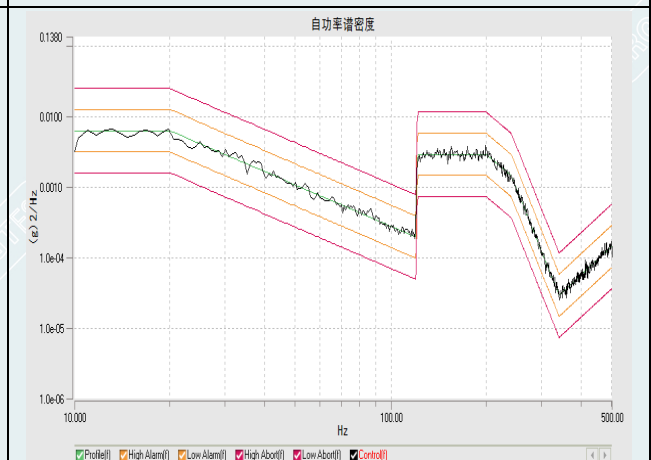


Fig.1-14 Vibration curve (Longitudinal 3#)

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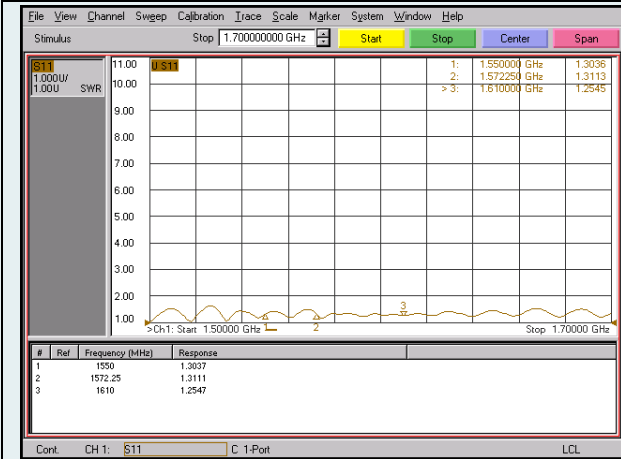


Fig.1-15 Function check before test 1# (GPS)

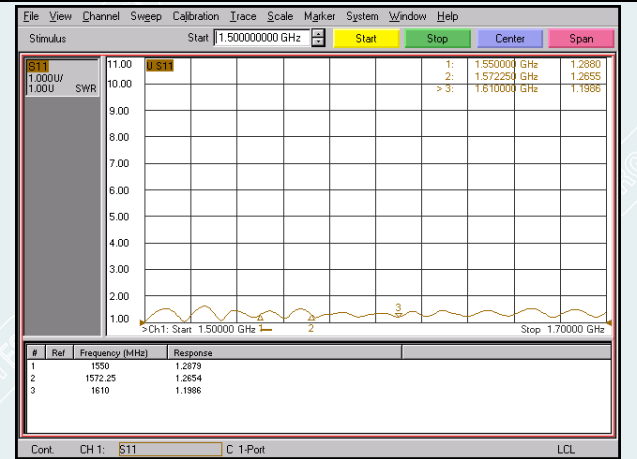


Fig.1-16 Function check after test 1# (GPS)

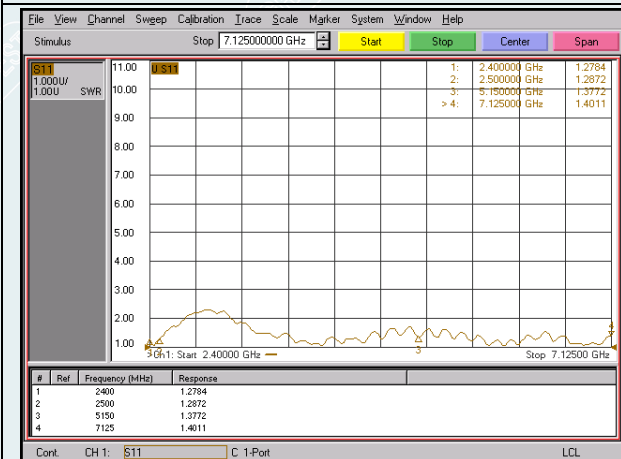


Fig.1-17 Function check before test 1# (WIFI-1)

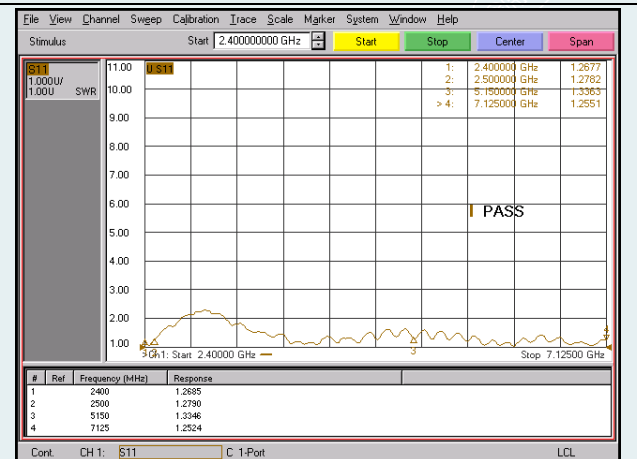


Fig.1-18 Function check after test 1# (WIFI-1)

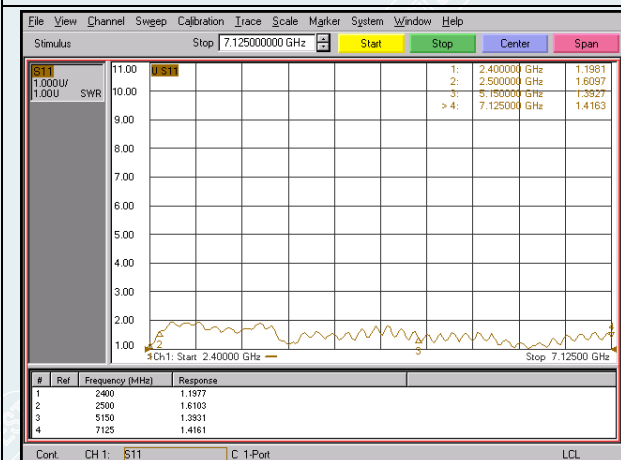


Fig.1-19 Function check before test 1# (WIFI-2)

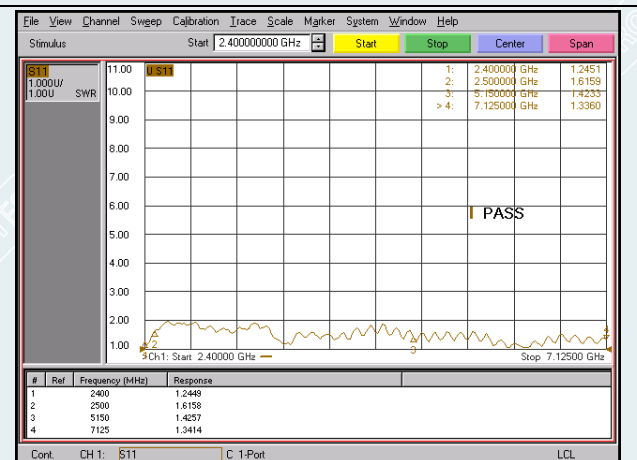


Fig.1-20 Function check after test 1# (WIFI-2)

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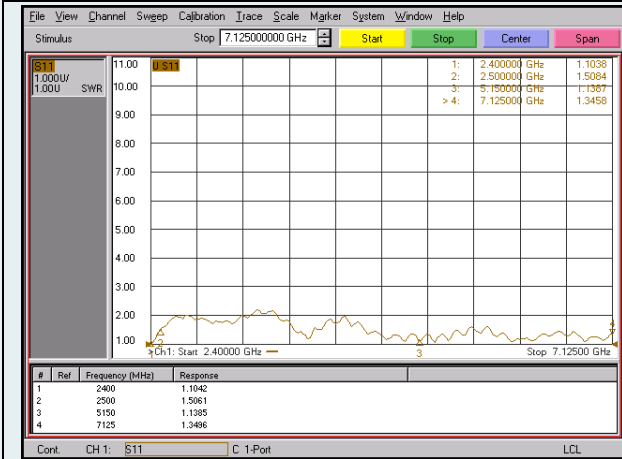


Fig.1-21 Function check before test 1# (WIFI-3)

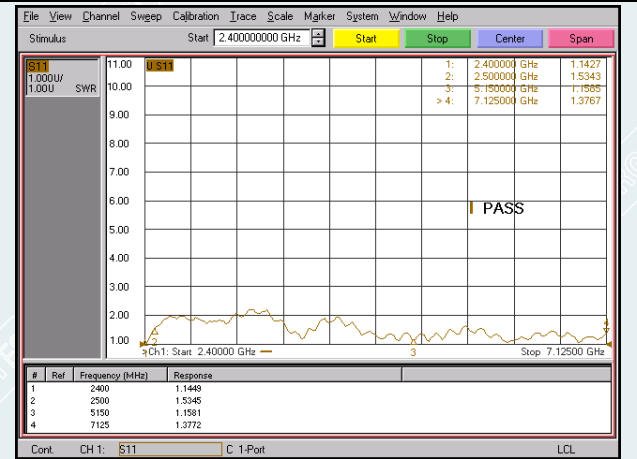


Fig.1-22 Function check after test 1# (WIFI-3)

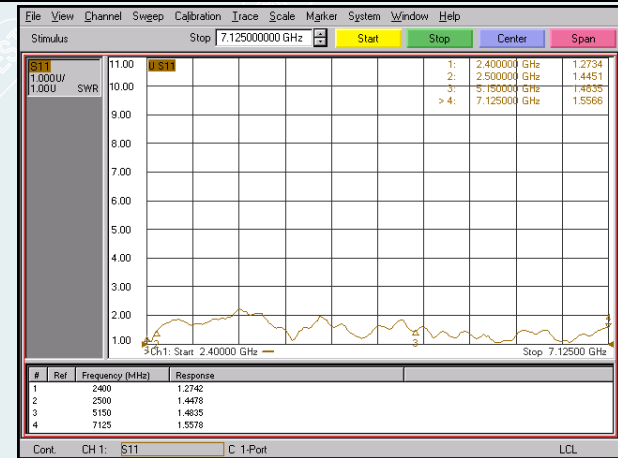


Fig.1-23 Function check before test 1# (WIFI-4)

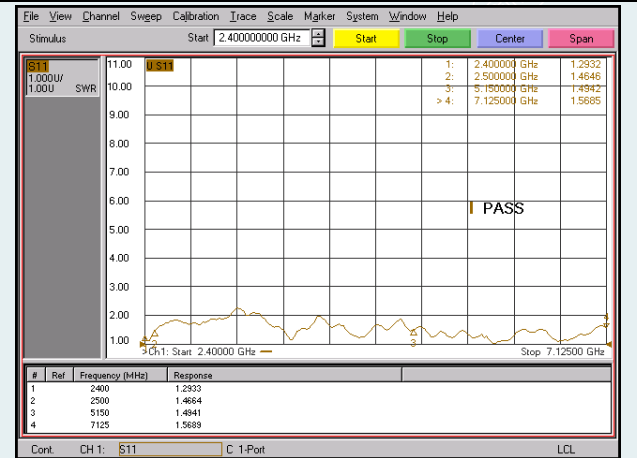


Fig.1-24 Function check after test 1# (WIFI-4)

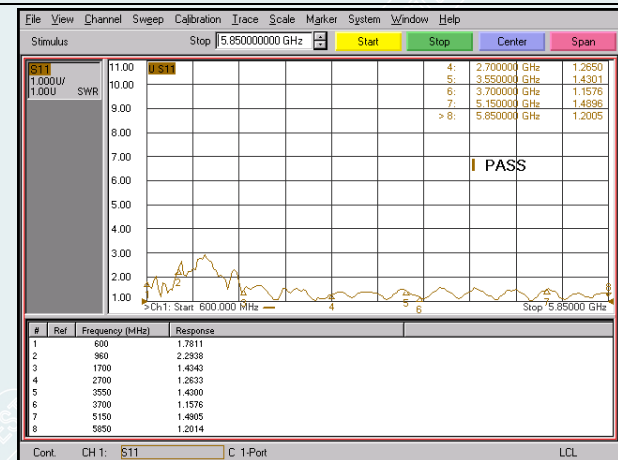


Fig.1-25 Function check before test 1# (CELL-1)

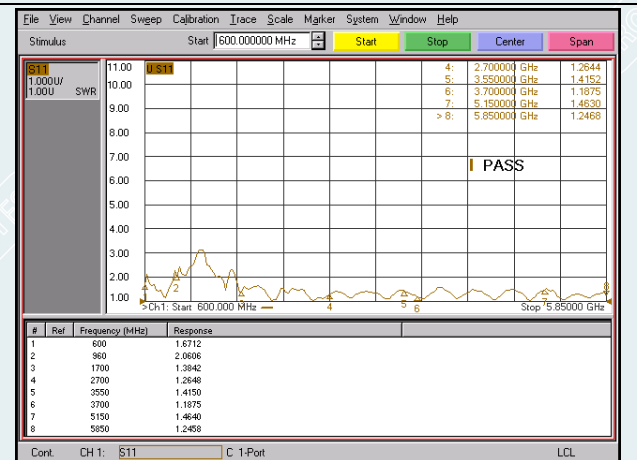


Fig.1-26 Function check after test 1# (CELL-1)

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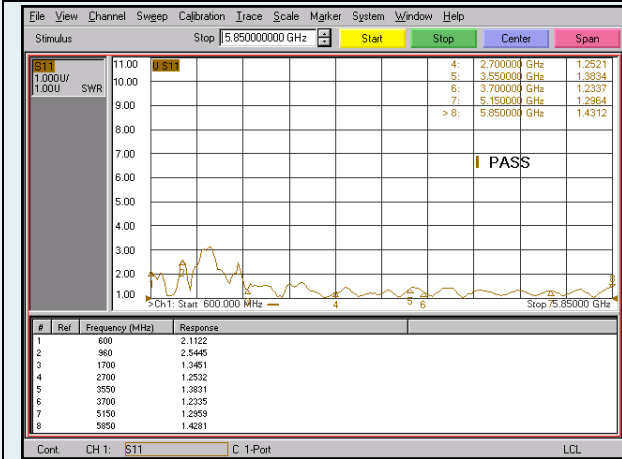


Fig.1-27 Function check before test 1# (CELL-2)

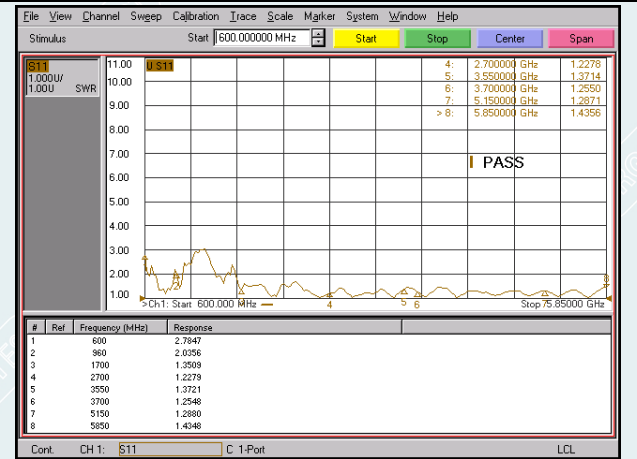


Fig.1-28 Function check after test 1# (CELL-2)

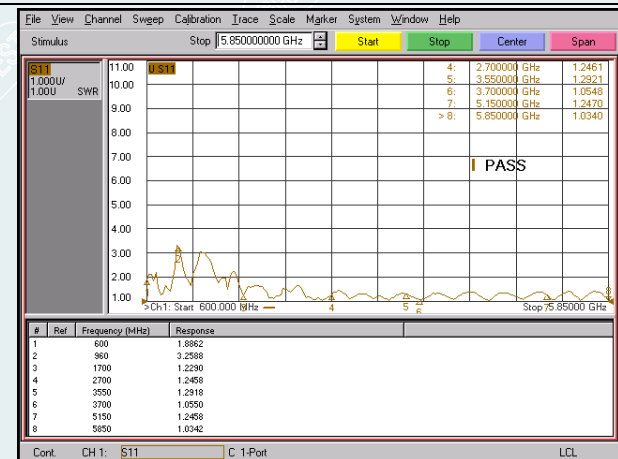


Fig.1-29 Function check before test 1# (CELL-3)

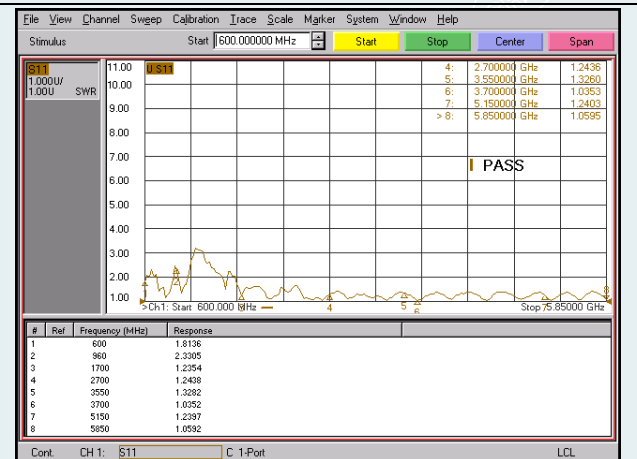


Fig.1-30 Function check after test 1# (CELL-3)

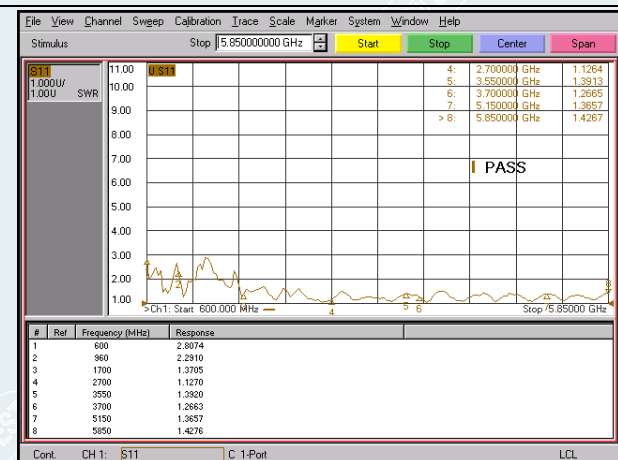


Fig.1-31 Function check before test 1# (CELL-4)

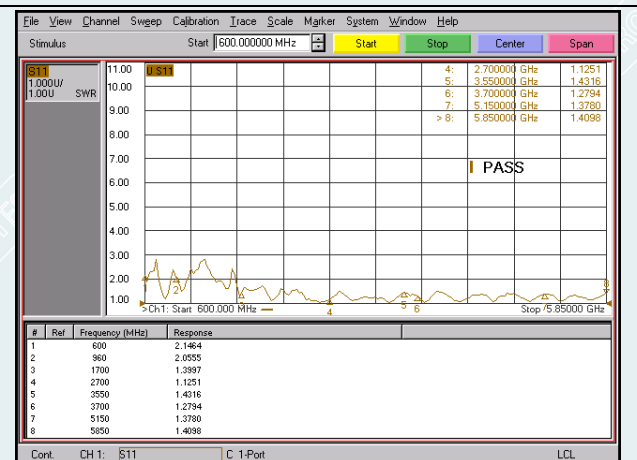


Fig.1-32 Function check after test 1# (CELL-4)

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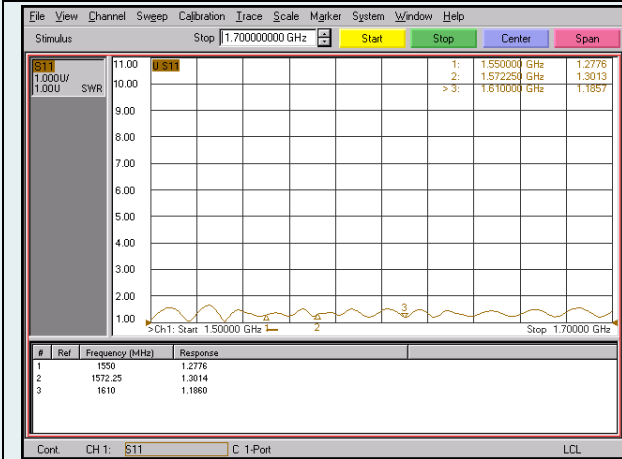


Fig.1-33 Function check before test 2# (GPS)

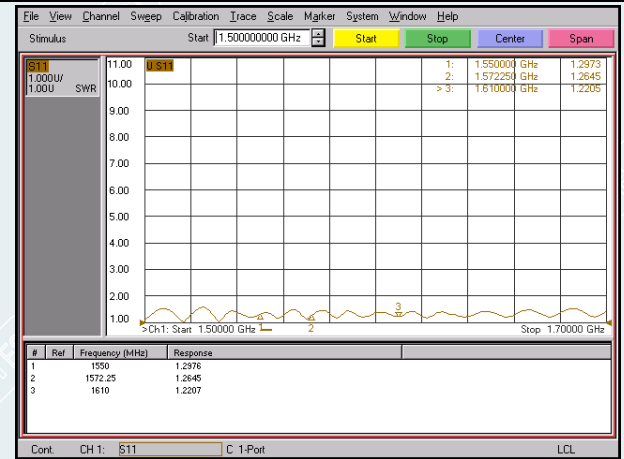


Fig.1-34 Function check after test 2# (GPS)

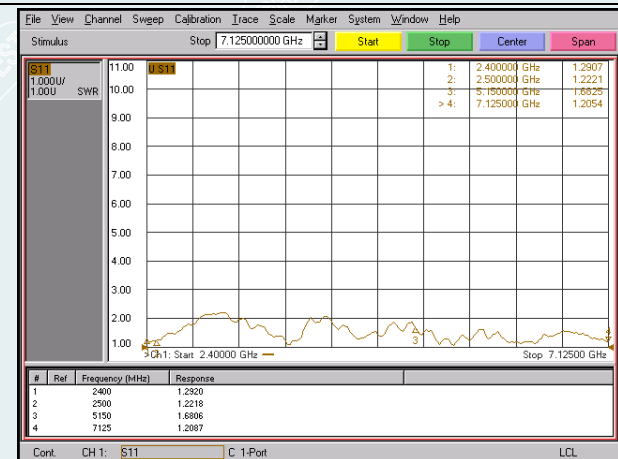


Fig.1-35 Function check before test 2# (WIFI-1)

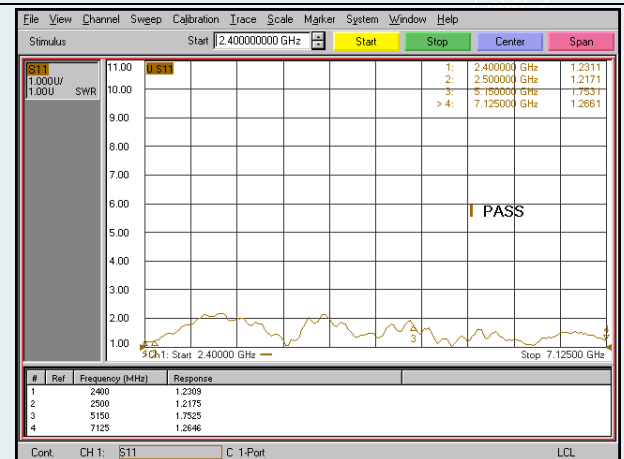


Fig.1-36 Function check after test 2# (WIFI-1)

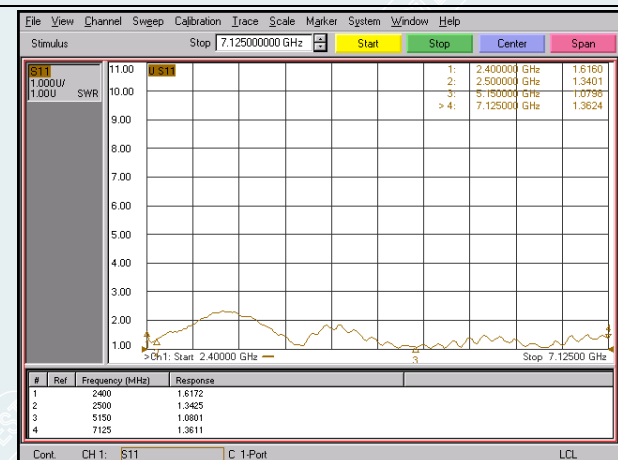


Fig.1-37 Function check before test 2# (WIFI-2)

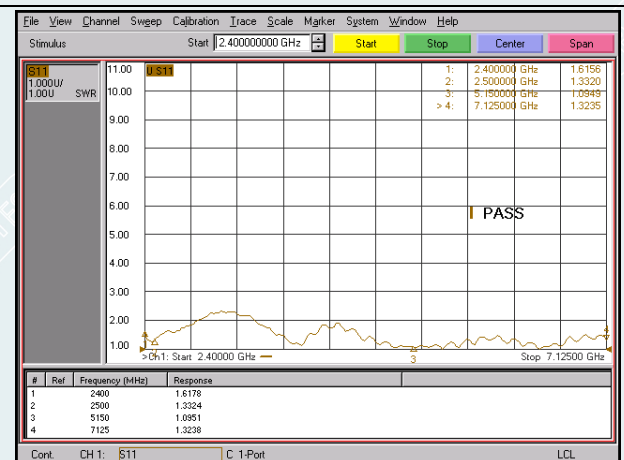


Fig.1-38 Function check after test 2# (WIFI-2)

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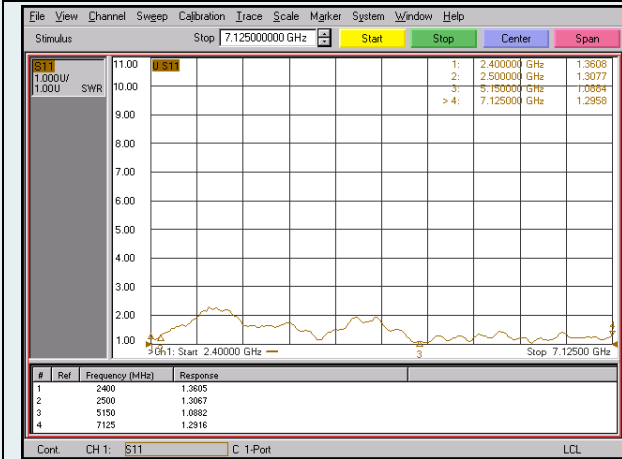


Fig.1-39 Function check before test 2# (WIFI-3)

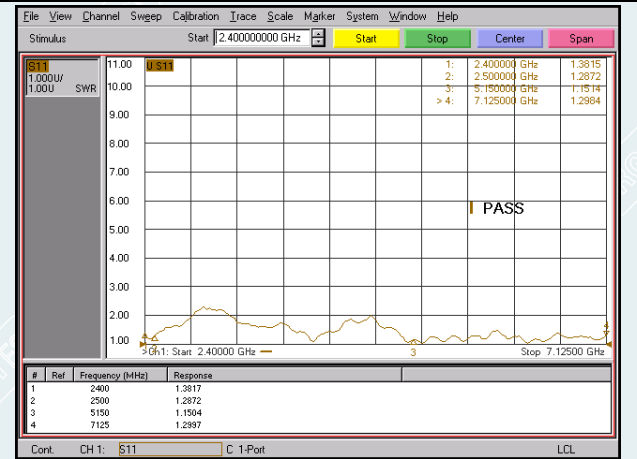


Fig.1-40 Function check after test 2# (WIFI-3)

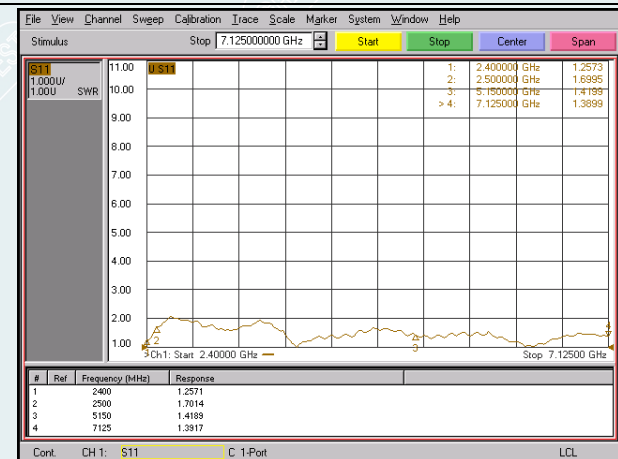


Fig.1-41 Function check before test 2# (WIFI-4)

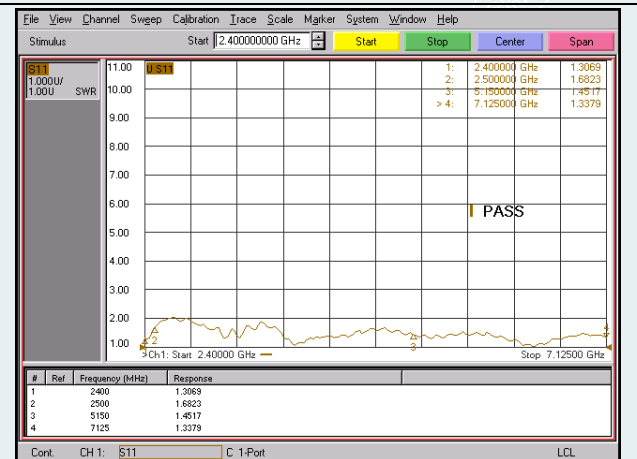


Fig.1-42 Function check after test 2# (WIFI-4)

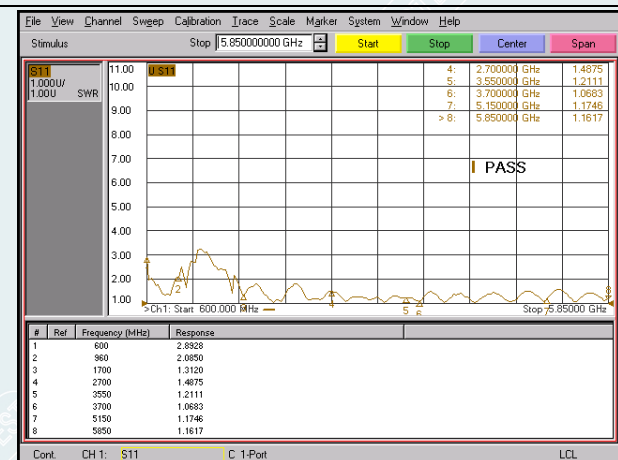


Fig.1-43 Function check before test 2# (CELL-1)

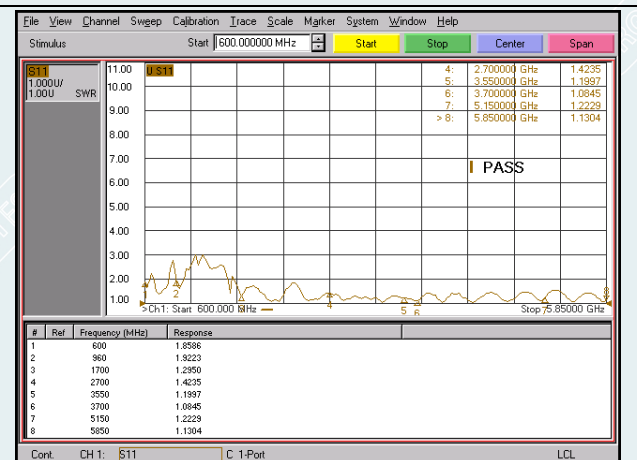


Fig.1-44 Function check after test 2# (CELL-1)

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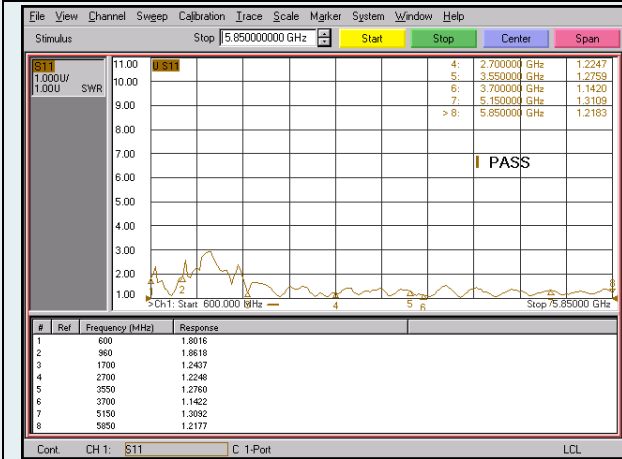


Fig.1-45 Function check before test 2# (CELL-2)

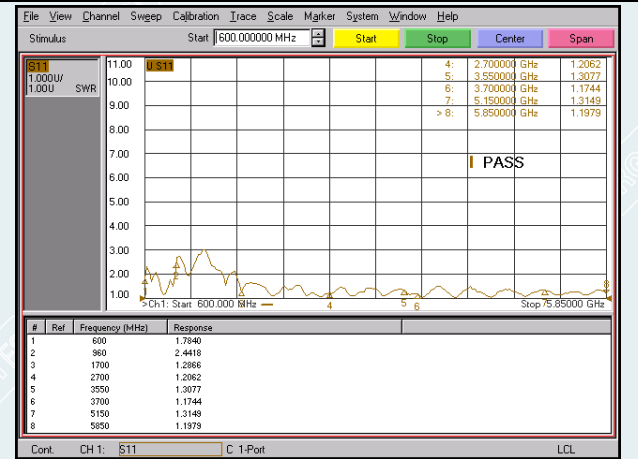


Fig.1-46 Function check after test 2# (CELL-2)

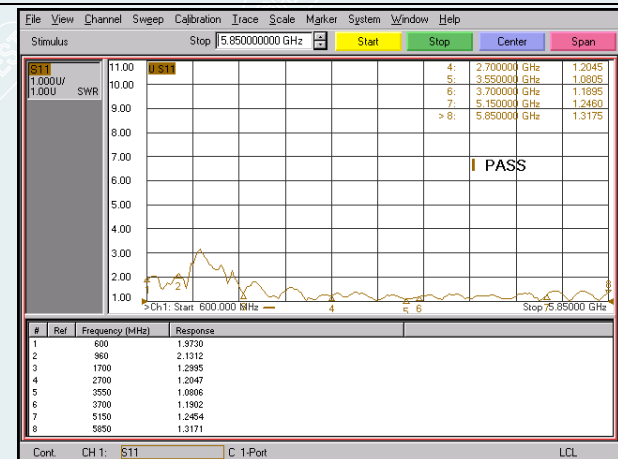


Fig.1-47 Function check before test 2# (CELL-3)

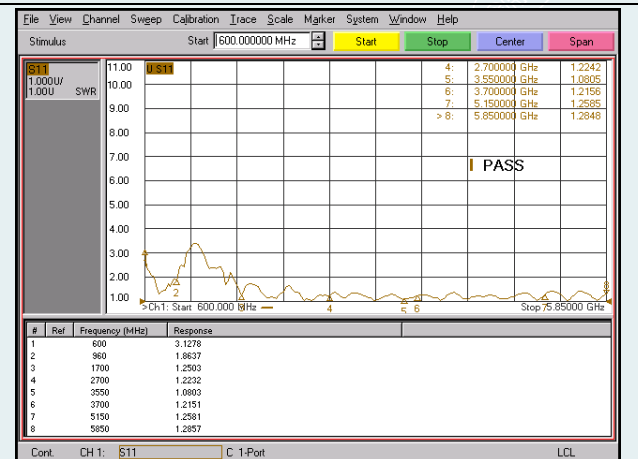


Fig.1-48 Function check after test 2# (CELL-3)



Fig.1-49 Function check before test 2# (CELL-4)

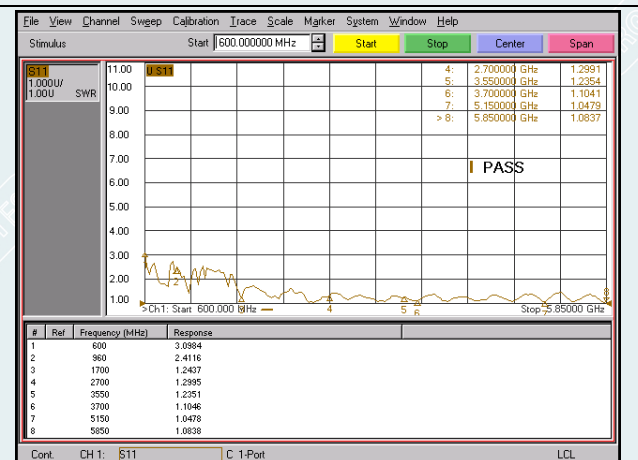


Fig.1-50 Function check after test 2# (CELL-4)

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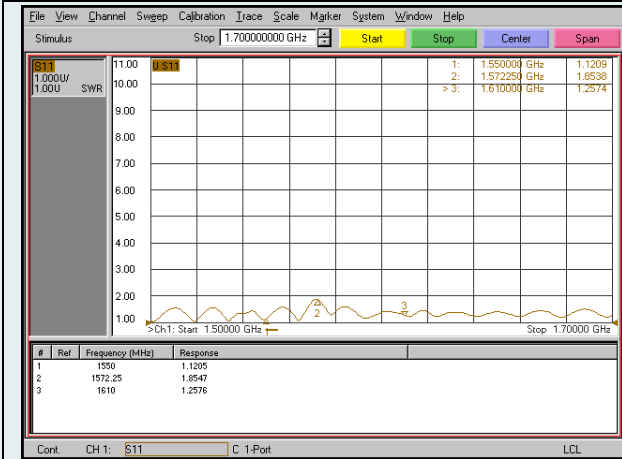


Fig.1-51 Function check before test 3# (GPS)

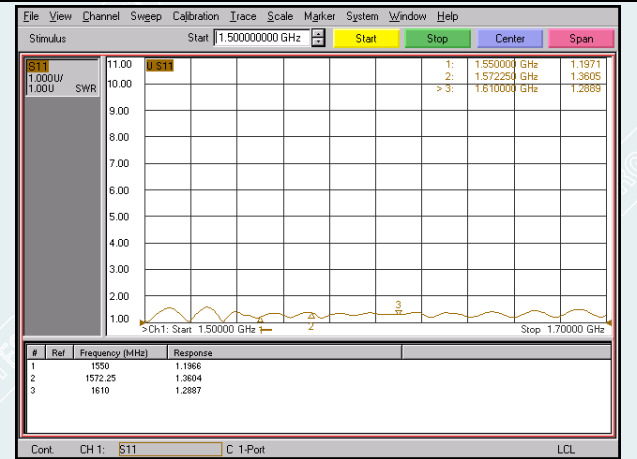


Fig.1-52 Function check after test 3# (GPS)

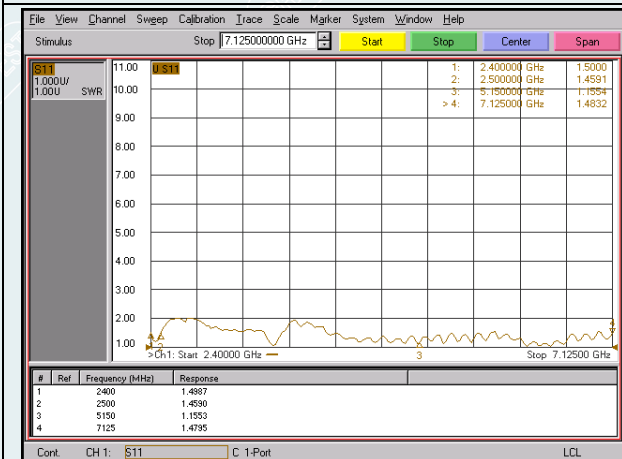


Fig.1-53 Function check before test 3# (WIFI-1)

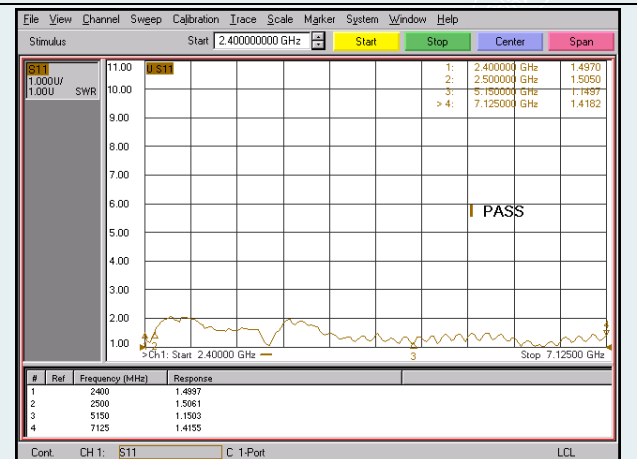


Fig.1-54 Function check after test 3# (WIFI-1)

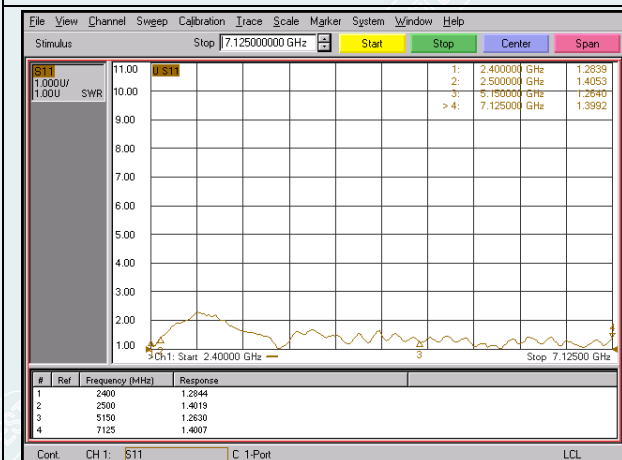


Fig.1-55 Function check before test 3# (WIFI-2)

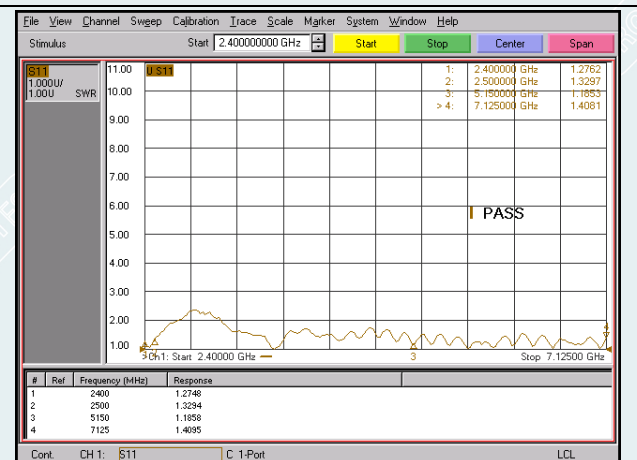


Fig.1-56 Function check after test 3# (WIFI-2)

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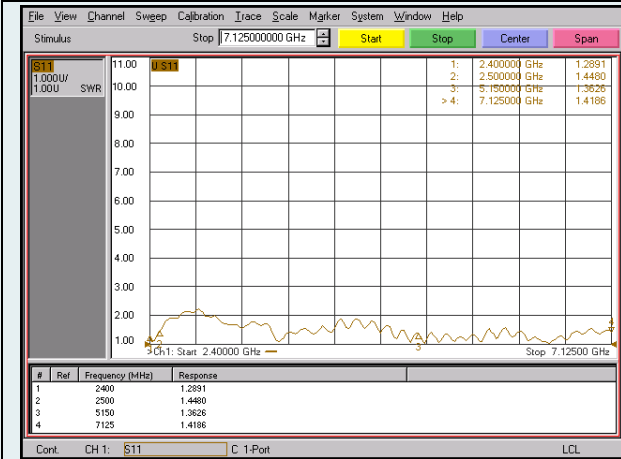


Fig.1-57 Function check before test 3# (WIFI-3)

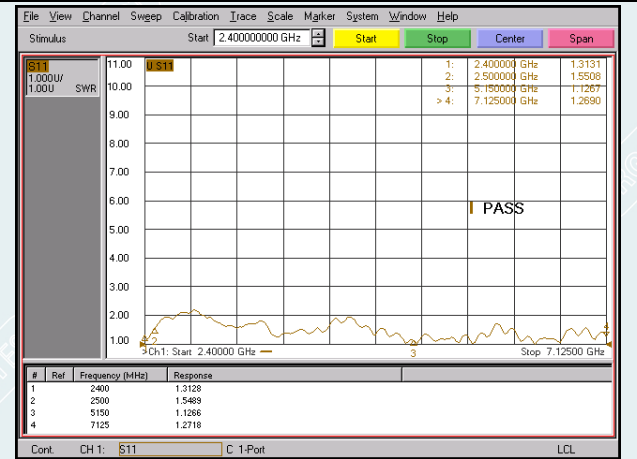


Fig.1-58 Function check after test 3# (WIFI-3)

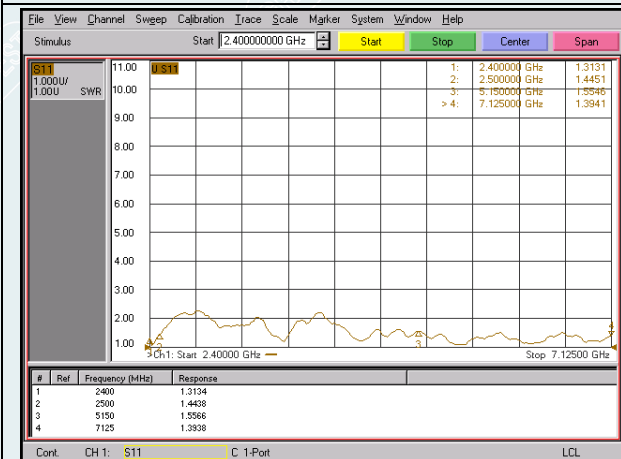


Fig.1-59 Function check before test 3# (WIFI-4)

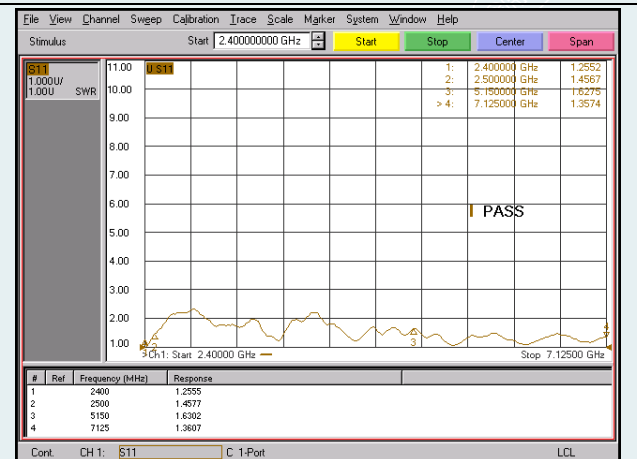


Fig.1-60 Function check after test 3# (WIFI-4)

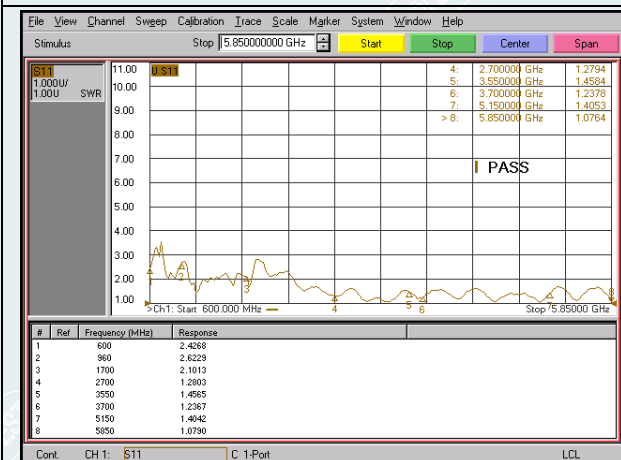


Fig.1-61 Function check before test 3# (CELL-1)

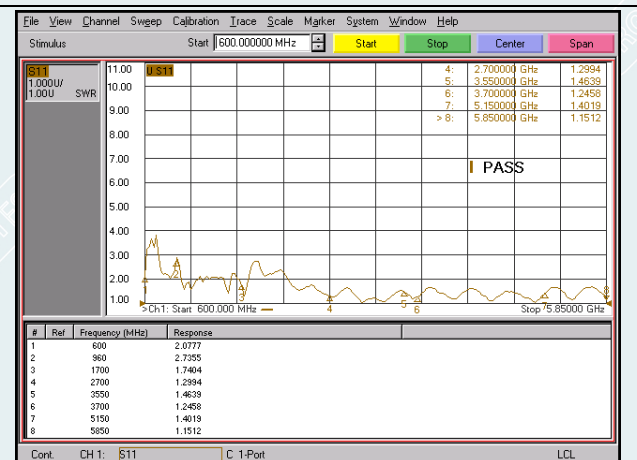


Fig.1-62 Function check after test 3# (CELL-1)

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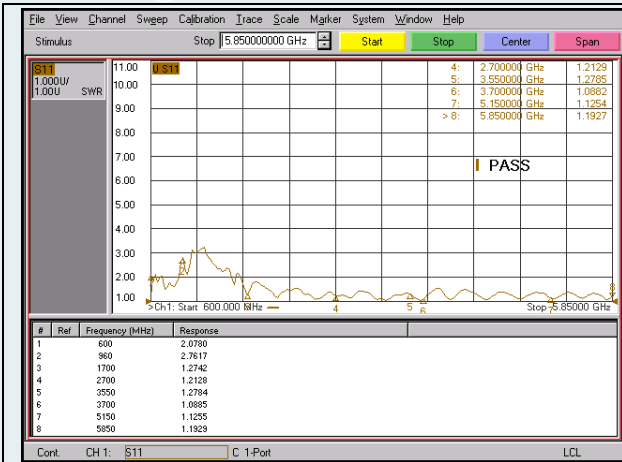


Fig.1-63 Function check before test 3# (CELL-2)

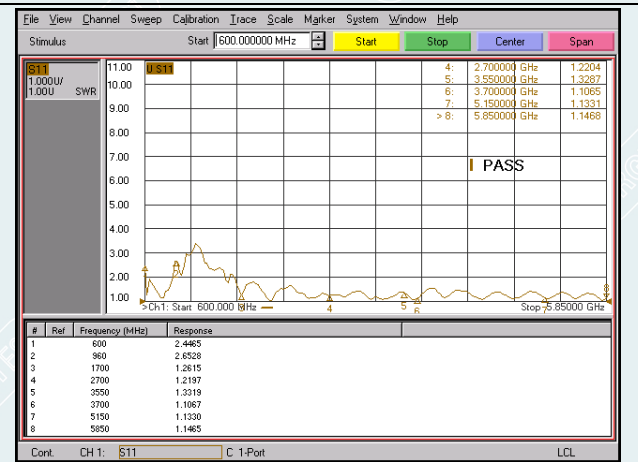


Fig.1-64 Function check after test 3# (CELL-2)

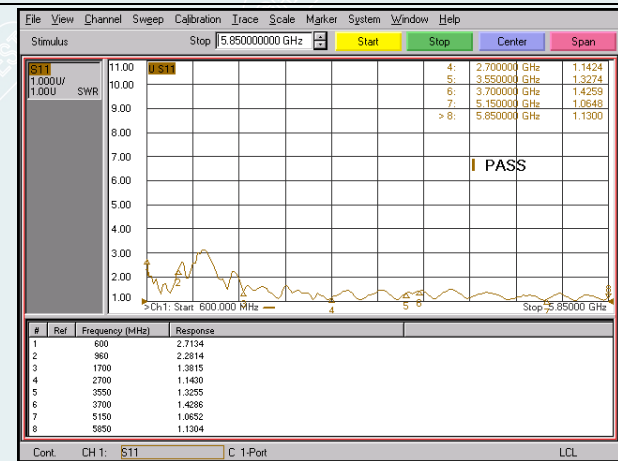


Fig.1-65 Function check before test 3# (CELL-3)

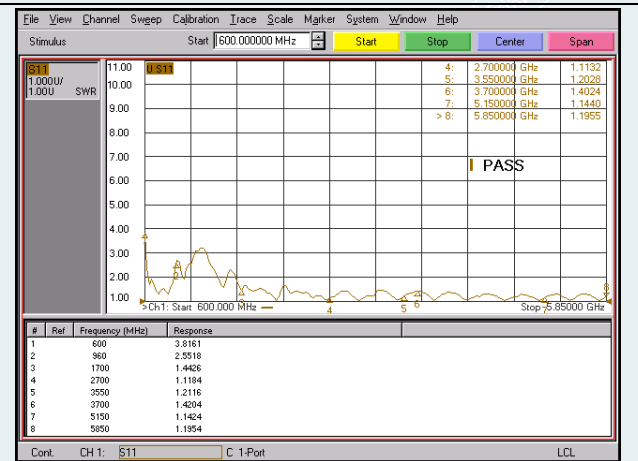


Fig.1-66 Function check after test 3# (CELL-3)

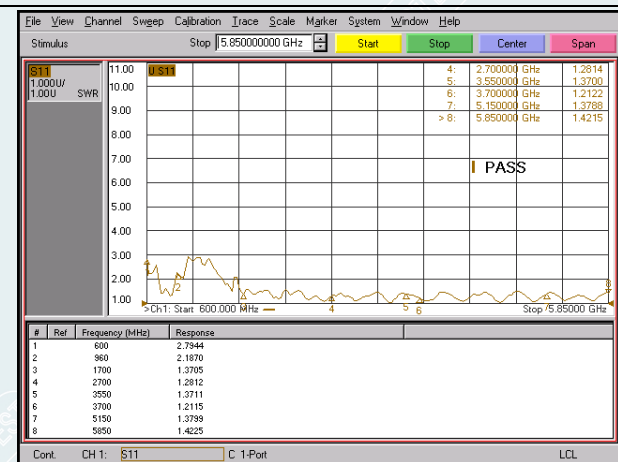


Fig.1-67 Function check before test 3# (CELL-4)

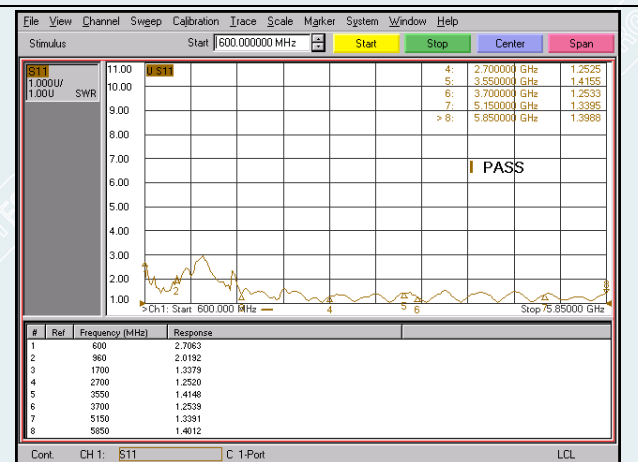


Fig.1-68 Function check after test 3# (CELL-4)

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2 Shock

2.1 Test condition

2.1.1 Test basis: IEC 60068-2-27:2008;

2.1.2 Pulse shape: Half-sine wave;

2.1.3 Peak acceleration: 30g;

2.1.4 Pulse duration: 18ms;

2.1.5 Test direction: Three axes six direction, three shocks in each direction.

2.2 Sample information

Sample information is shown in Table 2-1

Table 2-1 Sample information

Sample description	Model/Type	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	H202008078982-4#
		H202008078982-5#
		H202008078982-6#

2.3 Test requirements

2.3.1 Appearance requirements: After the test, the sample appearance should have no damage, deformation and cracks, etc anomalies;

2.3.2 Function inspection: Inspection by the client.

2.4 Test result

Test results are shown in Table 2-2.

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Table2-2 Test results

Sample description	Test No.	Visual inspection	Function inspection	Conclusion
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	H202008078982-4#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-5#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-6#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements

Note: Functions are checked by the client.

2.5 Test photos



Fig.2-1 Before the test (4#~6#)



Fig.2-2 After the test (4#~6#)

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Fig.2-3 Sample installation (+Z axis 4#,5#)

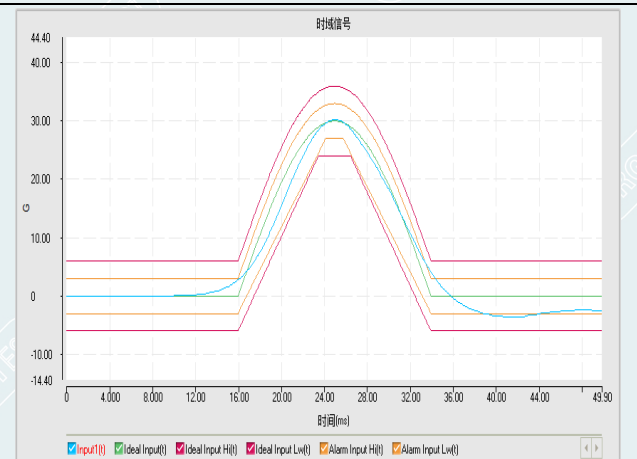


Fig.2-4 Test curve (+Z axis 4#,5#)



Fig.2-5 Sample installation (+Z axis 6#)

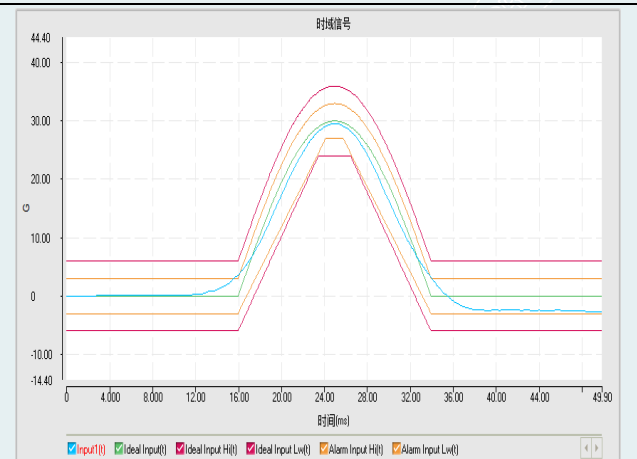


Fig.2-6 Test curve (+Z axis 6#)



Fig.2-7 Sample installation (-Z axis 4#,5#)

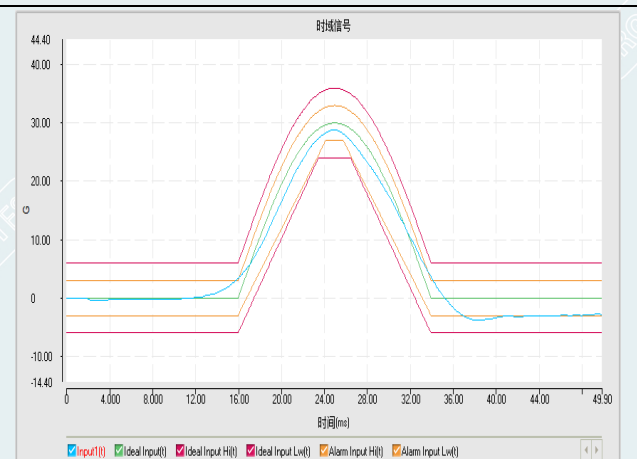


Fig.2-8 Test curve (-Z axis 4#,5#)

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Fig.2-9 Sample installation (-Z axis 6#)

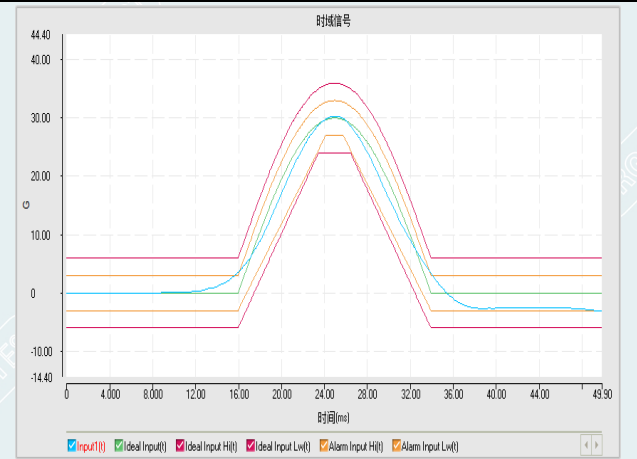


Fig.2-10 Test curve (-Z axis 6#)

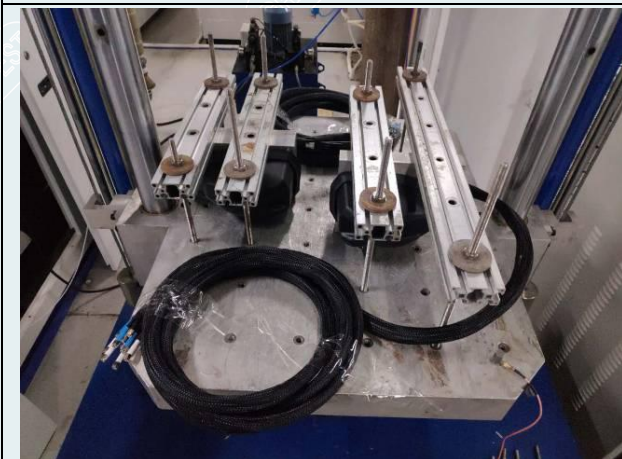


Fig.2-11 Sample installation (+Y axis 4#,5#)

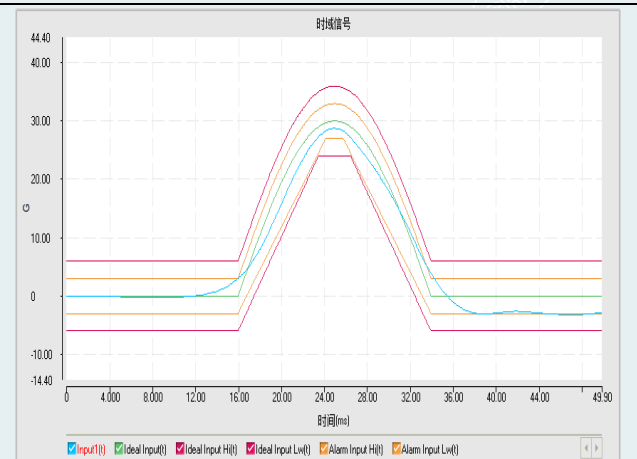


Fig.2-12 Test curve (+Y axis 4#,5#)



Fig.2-13 Sample installation (+Y axis 6#)

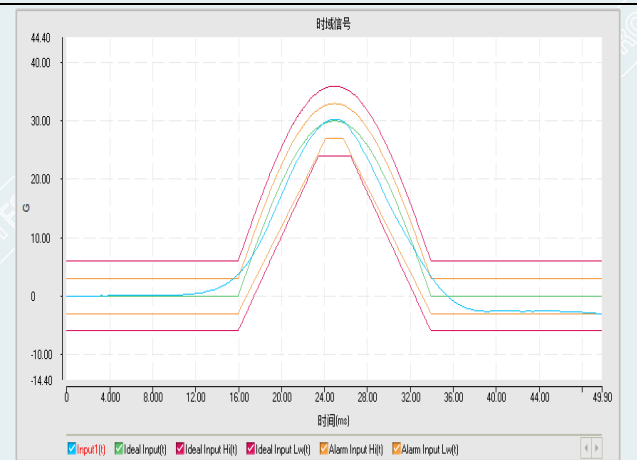


Fig.2-14 Test curve (+Y axis 6#)

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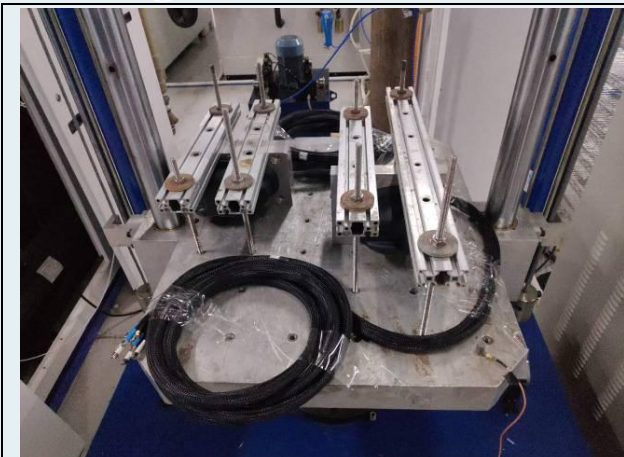


Fig.2-15 Sample installation (-Y axis 4#,5#)

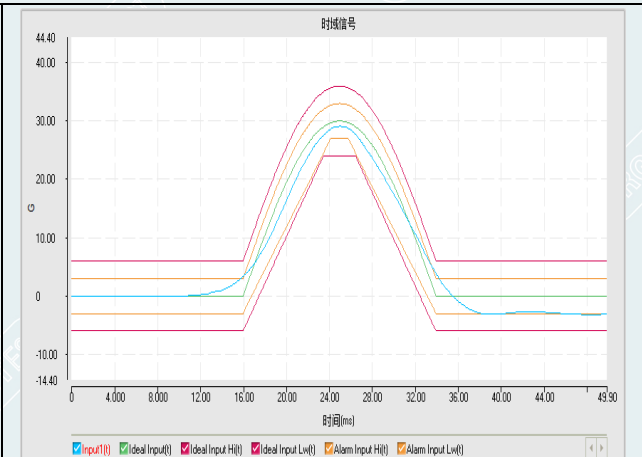


Fig.2-16 Test curve (-Y axis 4#,5#)

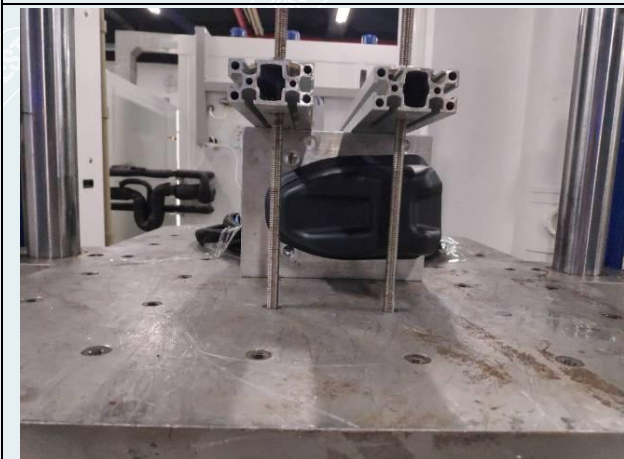


Fig.2-17 Sample installation (-Y axis 6#)

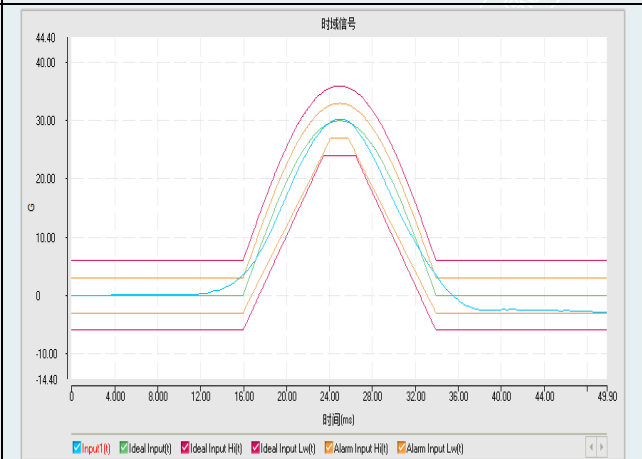


Fig.2-18 Test curve (-Y axis 6#)



Fig.2-19 Sample installation (+X axis 4#,5#)

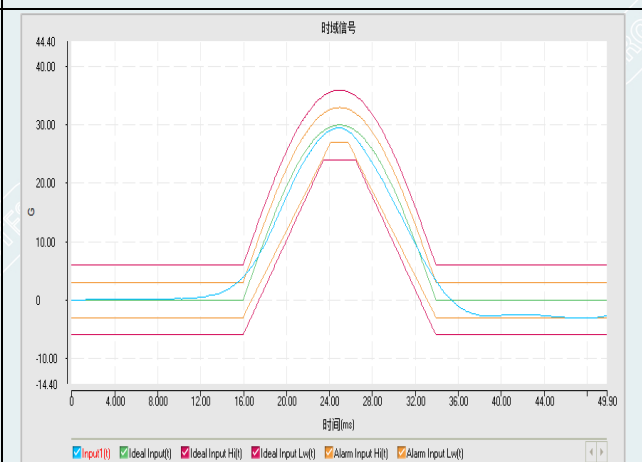


Fig.2-20 Test curve (+X axis 4#,5#)

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Fig.2-21 Sample installation (+X axis 6#)

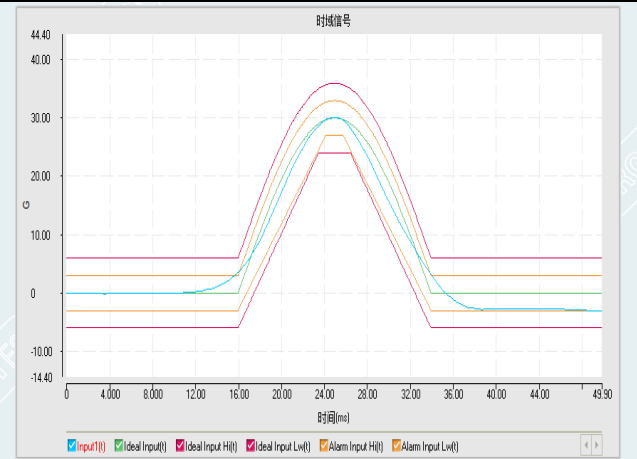


Fig.2-22 Test curve (+X axis 6#)



Fig.2-23 Sample installation (-X axis 4#,5#)

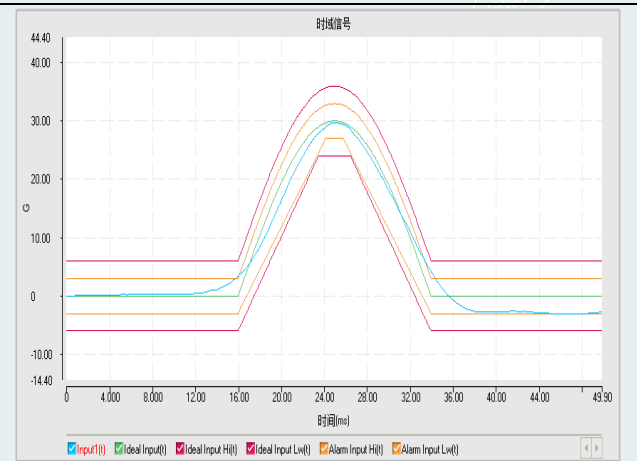


Fig.2-24 Test curve (-X axis 4#,5#)



Fig.2-25 Sample installation (-X axis 6#)

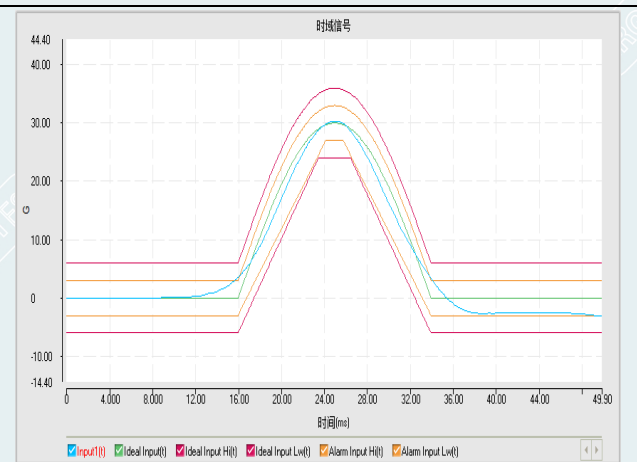


Fig.2-26 Test curve (-X axis 6#)

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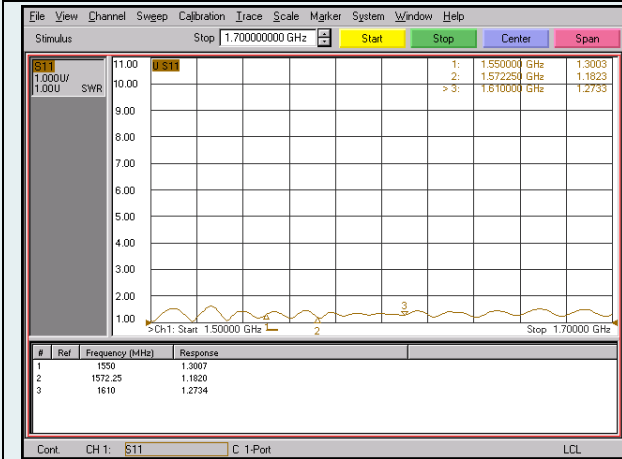


Fig.2-27 Function check before test 4# (GPS)

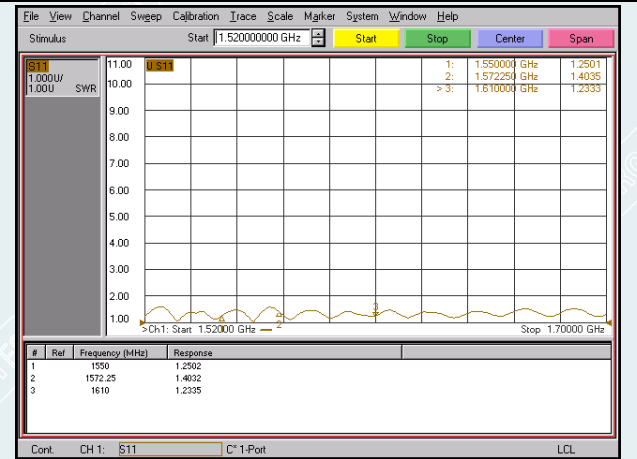


Fig.2-28 Function check after test 4# (GPS)

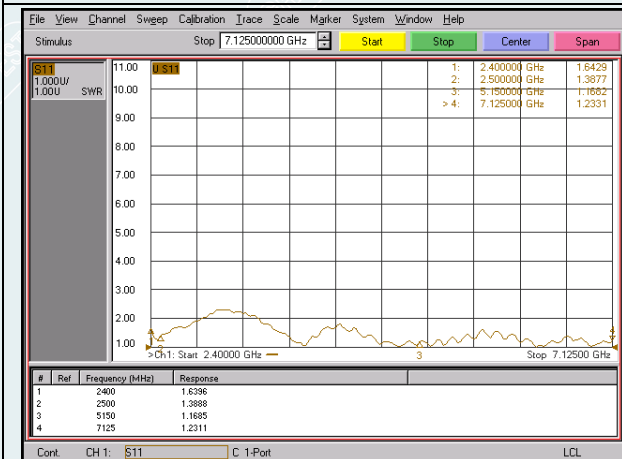


Fig.2-29 Function check before test 4# (WIFI-1)

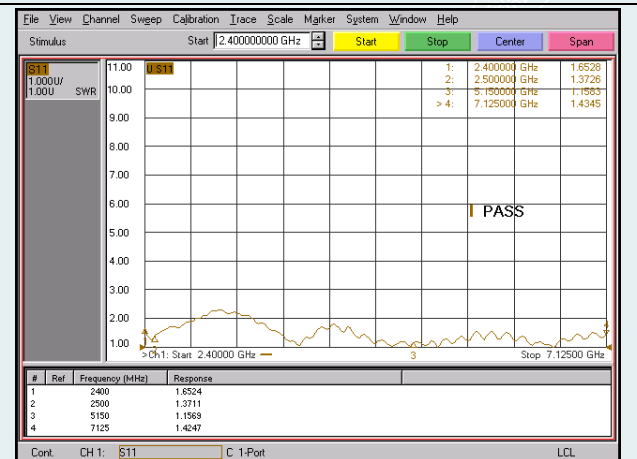


Fig.2-30 Function check after test 4# (WIFI-1)

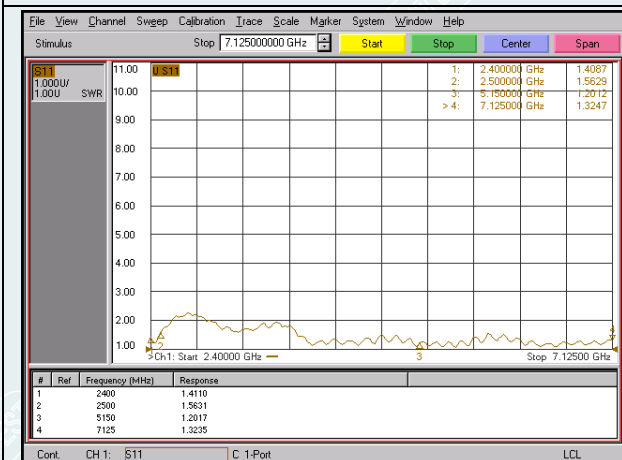


Fig.2-31 Function check before test 4# (WIFI-2)

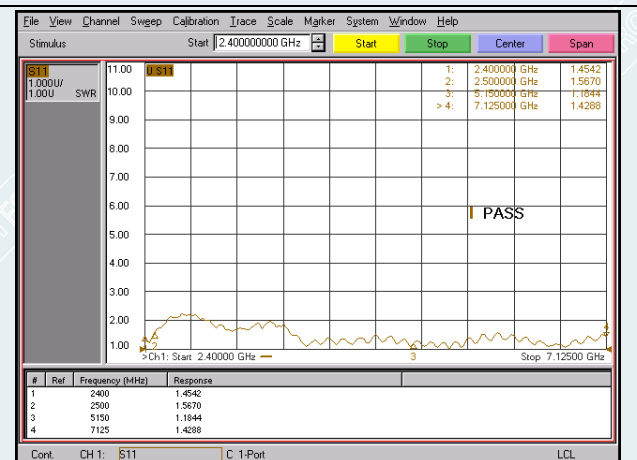


Fig.2-32 Function check after test 4# (WIFI-2)

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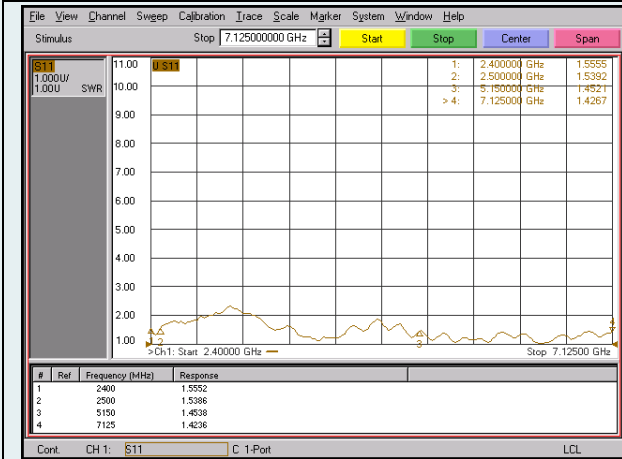


Fig.2-33 Function check before test 4# (WIFI-3)

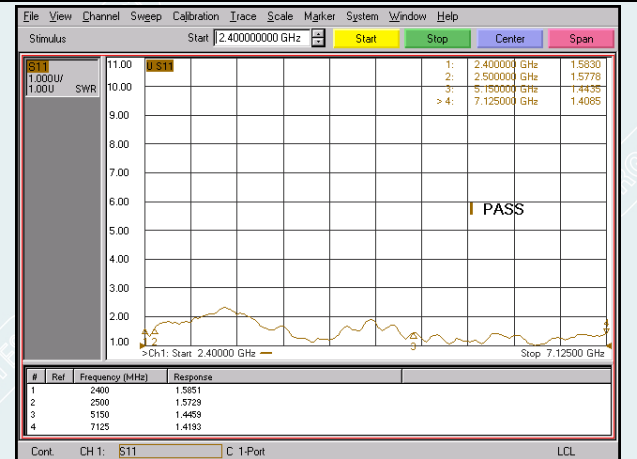


Fig.2-34 Function check after test 4# (WIFI-3)

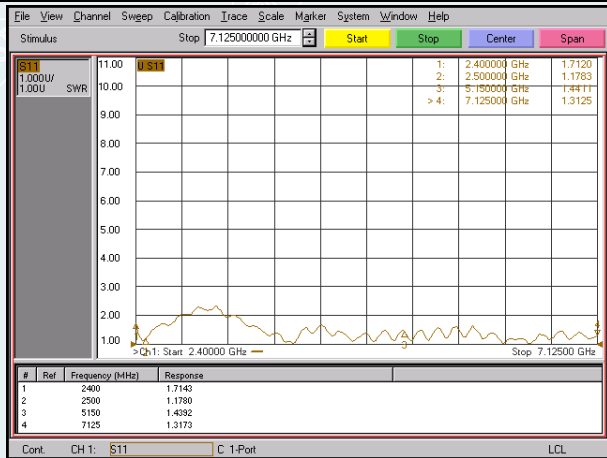


Fig.2-35 Function check before test 4# (WIFI-4)

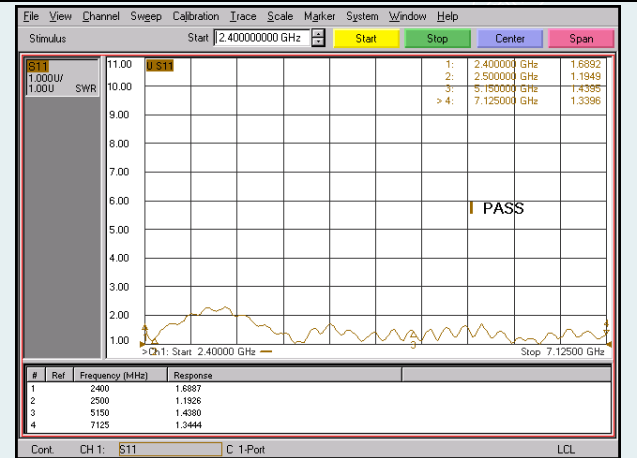


Fig.2-36 Function check after test 4# (WIFI-4)

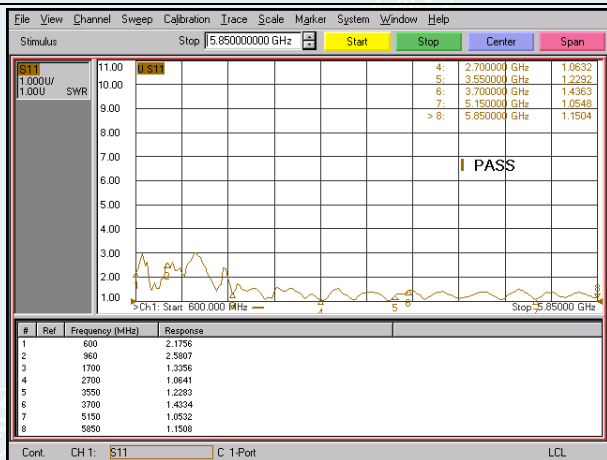


Fig.2-37 Function check before test 4# (CELL-1)

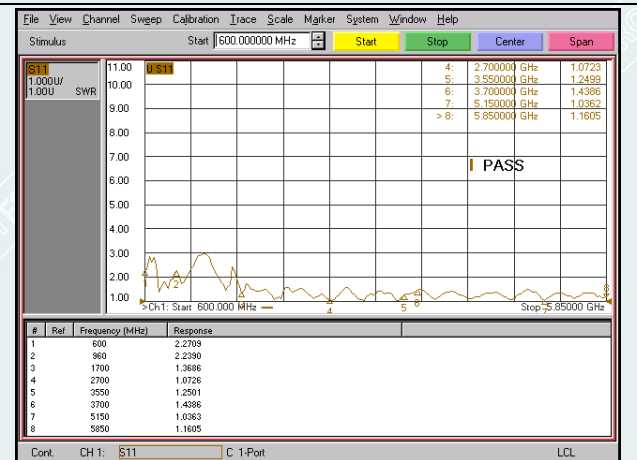


Fig.2-38 Function check after test 4# (CELL-1)

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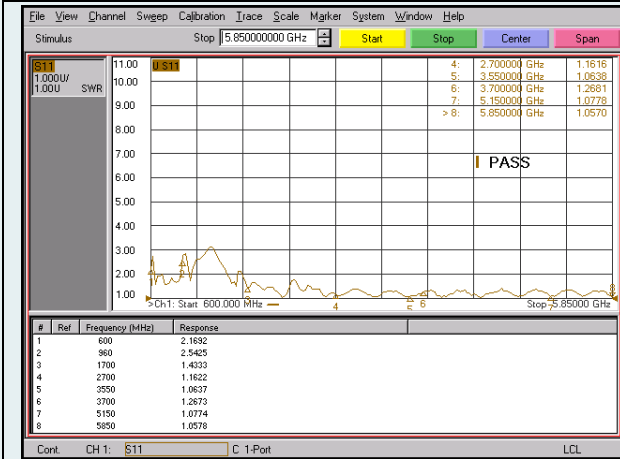


Fig.2-39 Function check before test 4# (CELL-2)

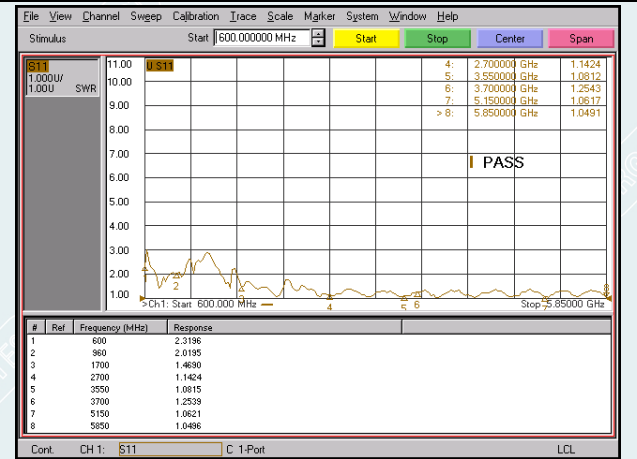


Fig.2-40 Function check after test 4# (CELL-2)

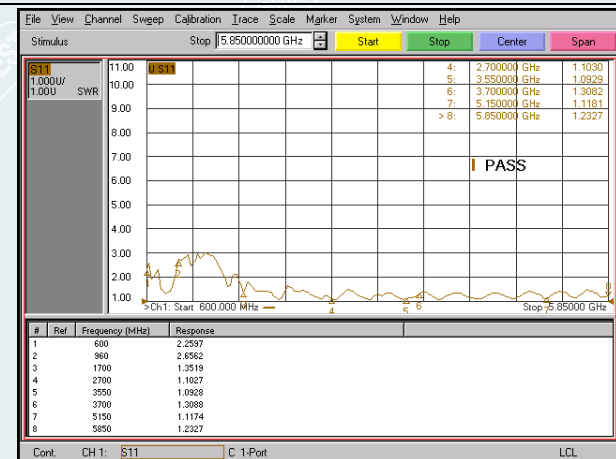


Fig.2-41 Function check before test 4# (CELL-3)

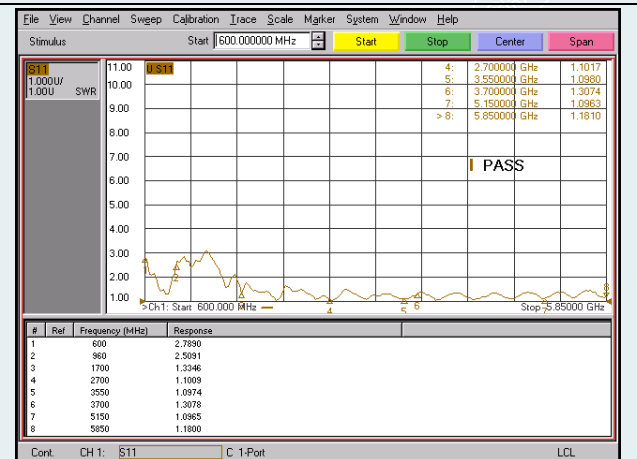


Fig.2-42 Function check after test 4# (CELL-3)

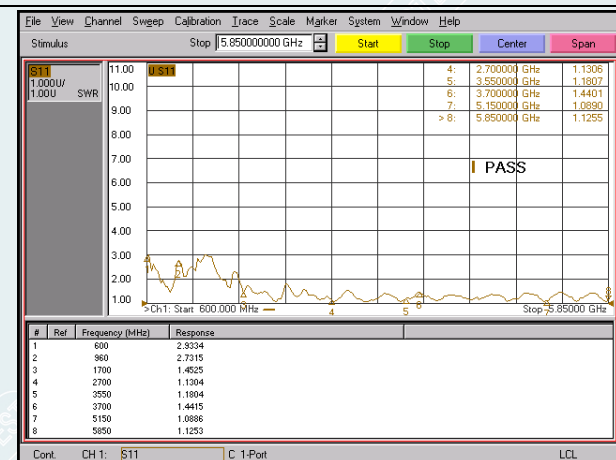


Fig.2-43 Function check before test 4# (CELL-4)

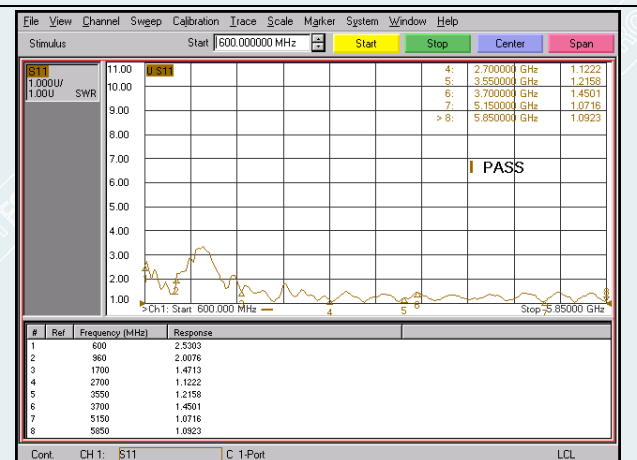


Fig.2-44 Function check after test 4# (CELL-4)

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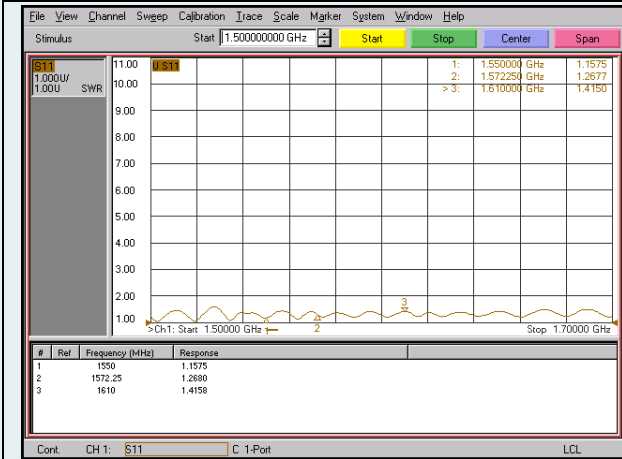


Fig.2-45 Function check before test 5# (GPS)

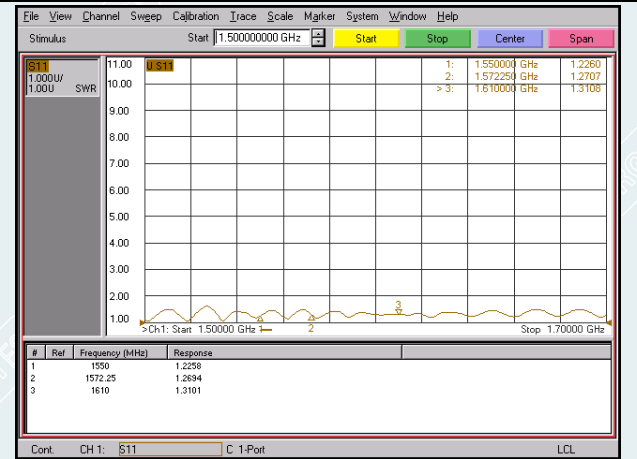


Fig.2-46 Function check after test 5# (GPS)

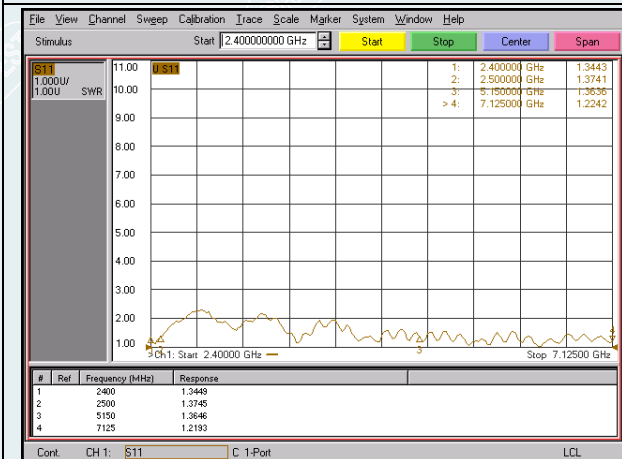


Fig.2-47 Function check before test 5# (WIFI-1)

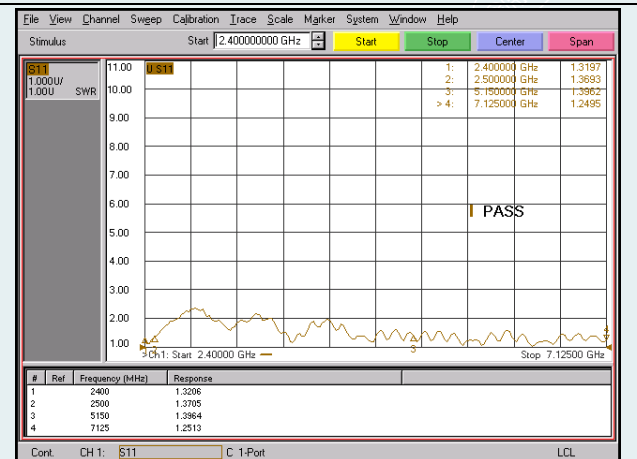


Fig.2-48 Function check after test 5# (WIFI-1)

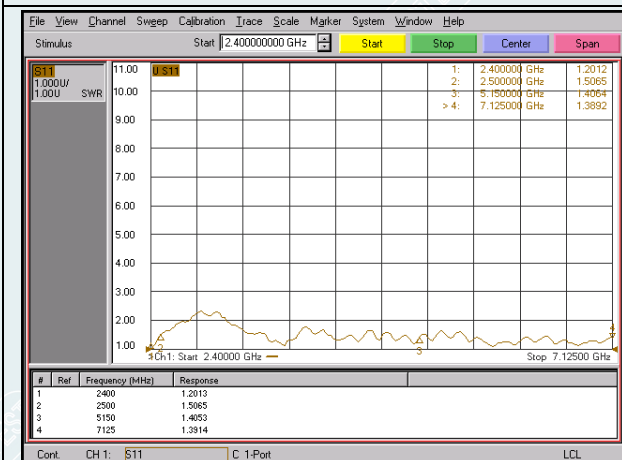


Fig.2-49 Function check before test 5# (WIFI-2)

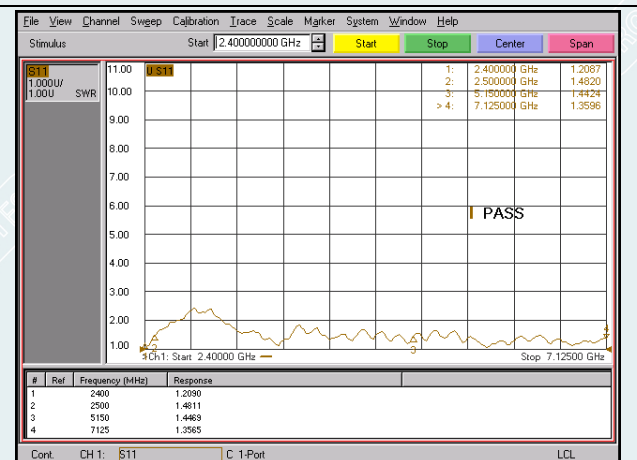


Fig.2-50 Function check after test 5# (WIFI-2)

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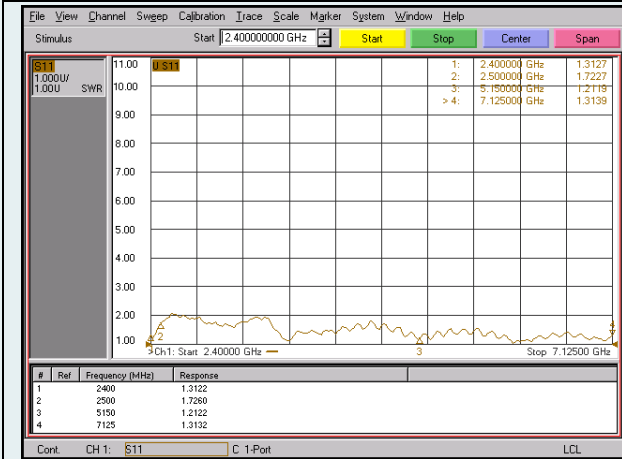


Fig.2-51 Function check before test 5# (WIFI-3)

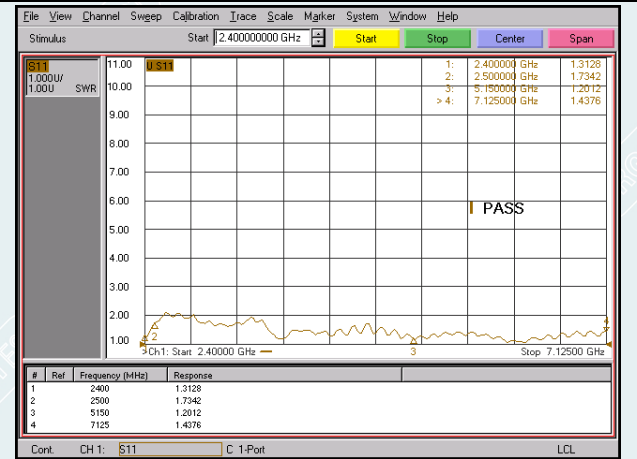


Fig.2-52 Function check after test 5# (WIFI-3)

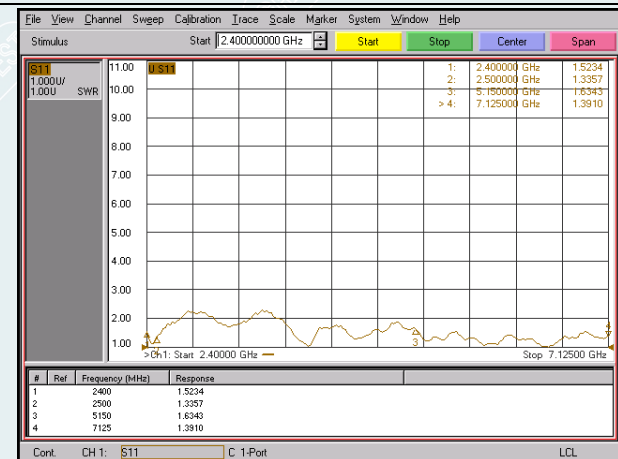


Fig.2-53 Function check before test 5# (WIFI-4)

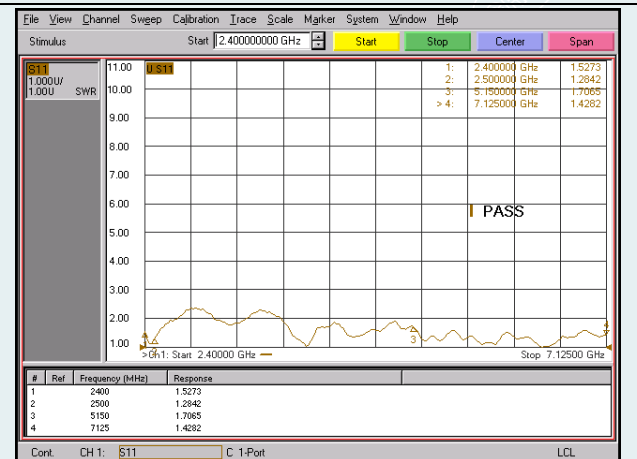


Fig.2-54 Function check after test 5# (WIFI-4)

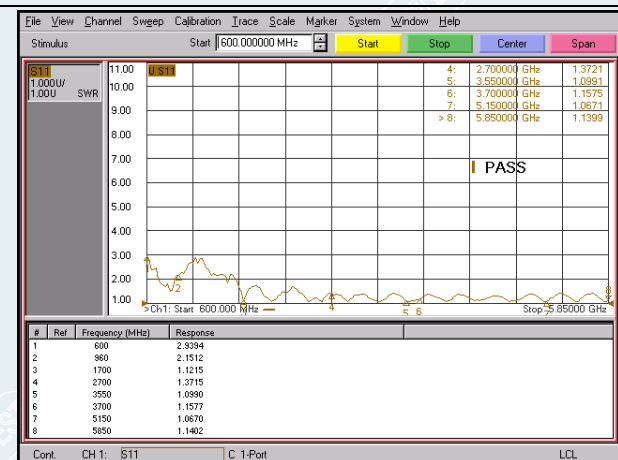


Fig.2-55 Function check before test 5# (CELL-1)

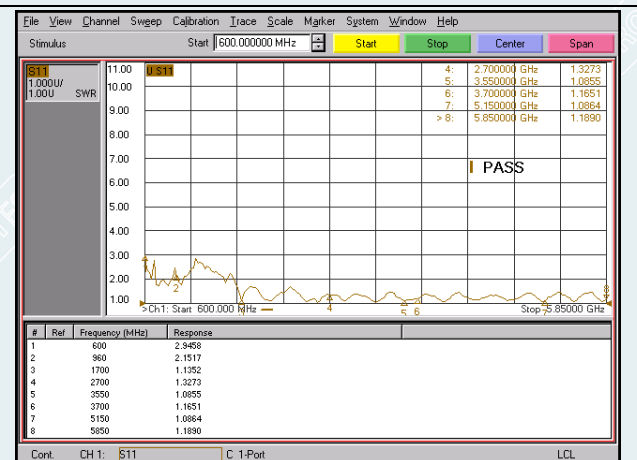


Fig.2-56 Function check after test 5# (CELL-1)

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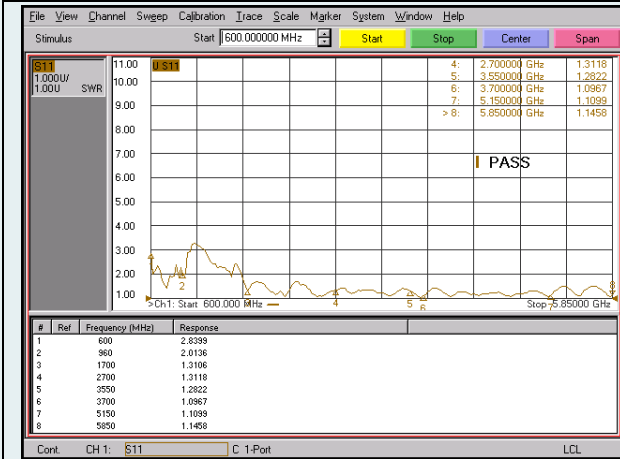


Fig.2-57 Function check before test 5# (CELL-2)

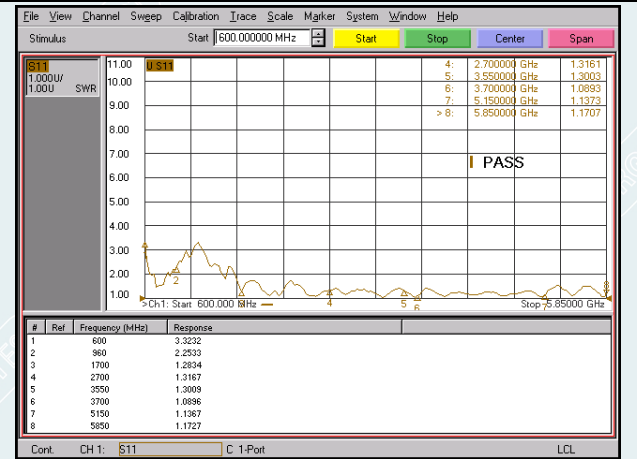


Fig.2-58 Function check after test 5# (CELL-2)

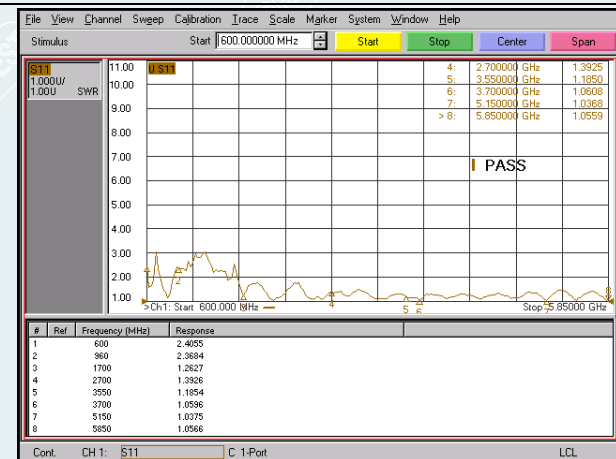


Fig.2-59 Function check before test 5# (CELL-3)

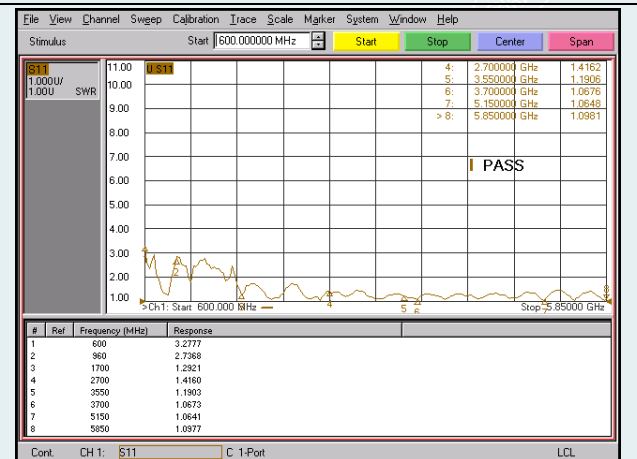


Fig.2-60 Function check after test 5# (CELL-3)

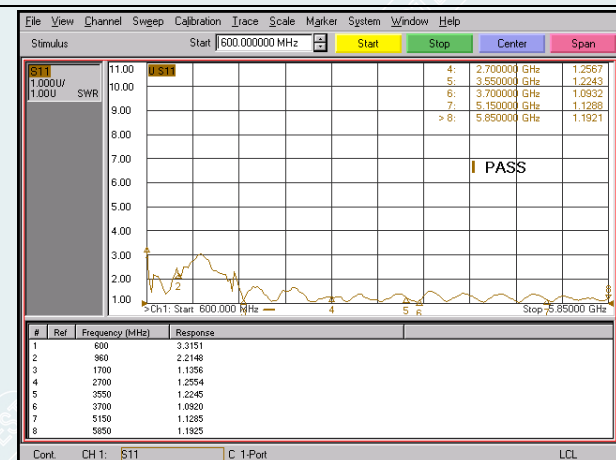


Fig.2-61 Function check before test 5# (CELL-4)

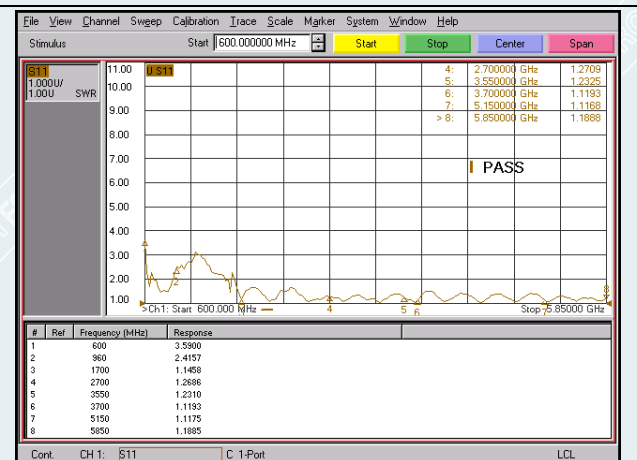


Fig.2-62 Function check after test 5# (CELL-4)

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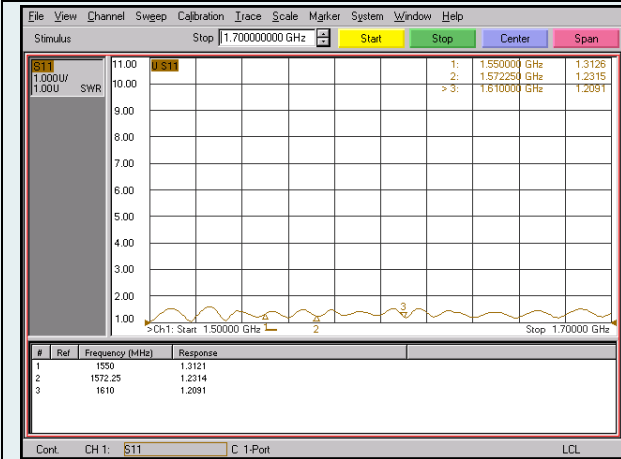


Fig.2-63 Function check before test 6# (GPS)

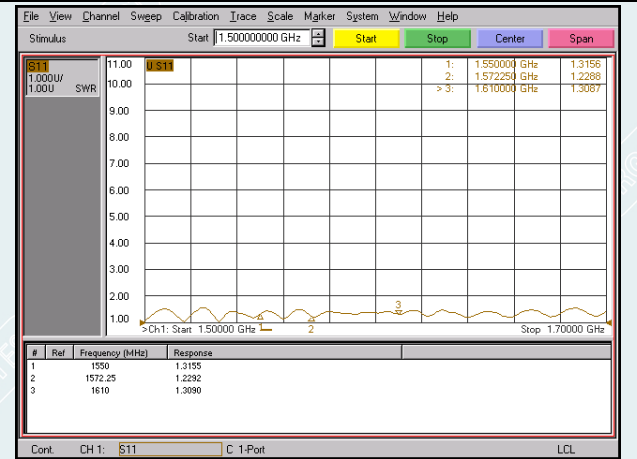


Fig.2-64 Function check after test 6# (GPS)

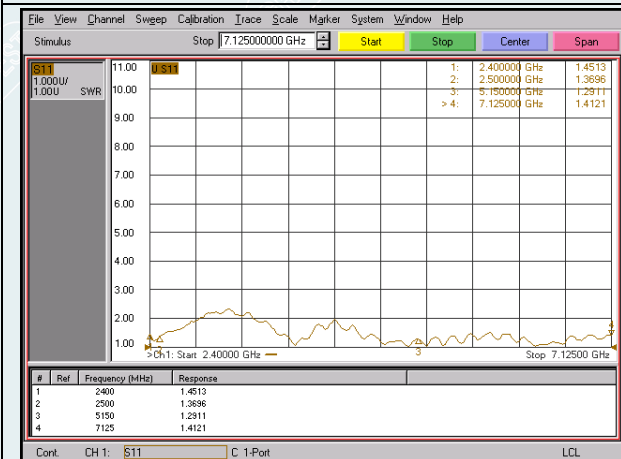


Fig.2-65 Function check before test 6# (WIFI-1)

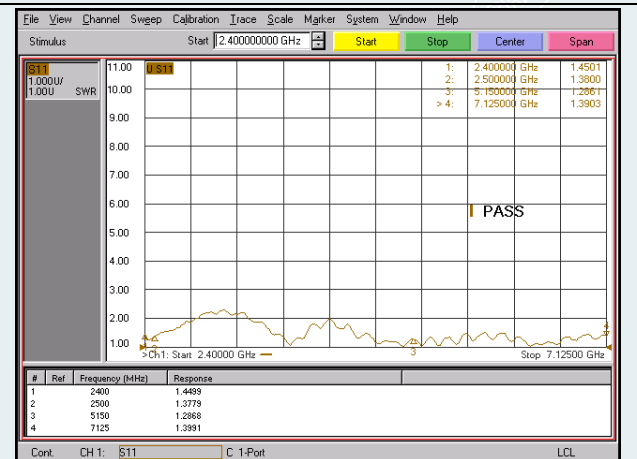


Fig.2-66 Function check after test 6# (WIFI-1)

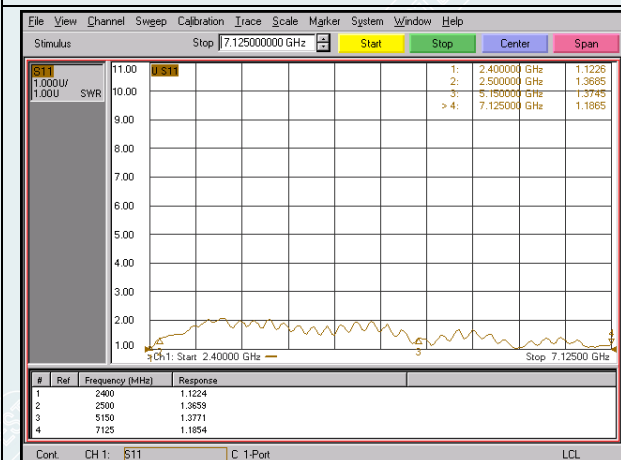


Fig.2-67 Function check before test 6# (WIFI-2)

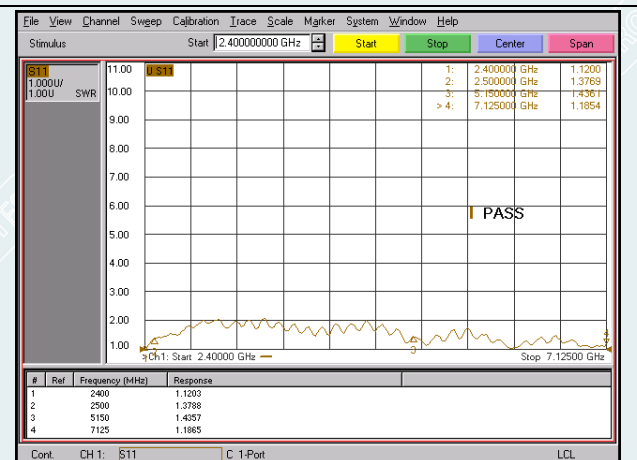


Fig.2-68 Function check after test 6# (WIFI-2)

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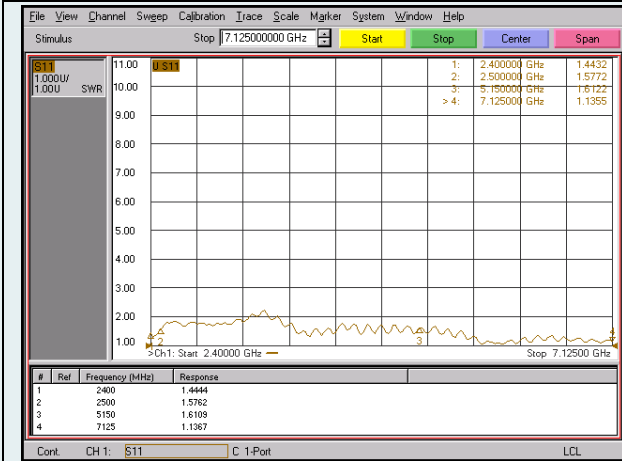


Fig.2-69 Function check before test 6# (WIFI-3)

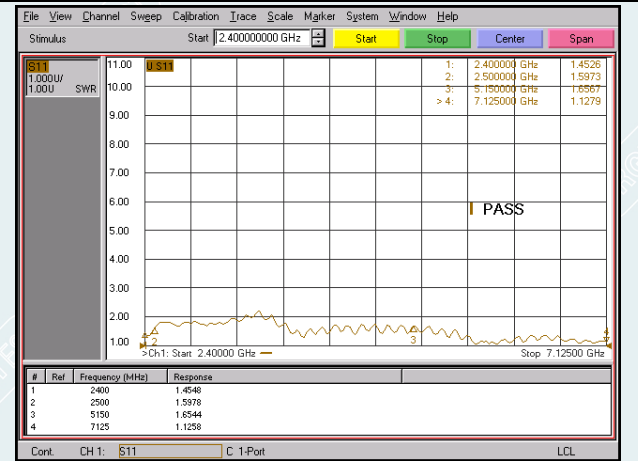


Fig.2-70 Function check after test 6# (WIFI-3)

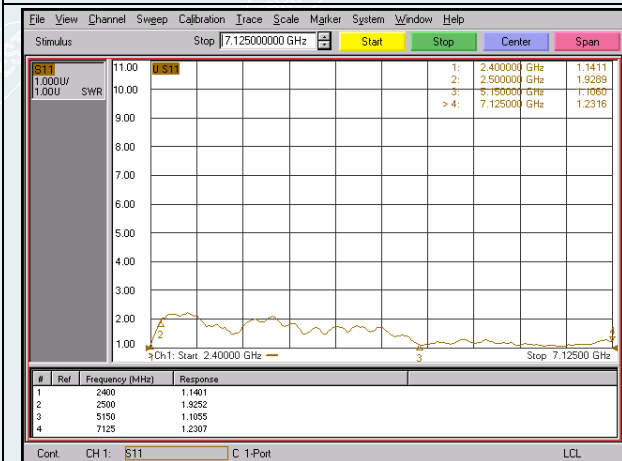


Fig.2-71 Function check before test 6# (WIFI-4)

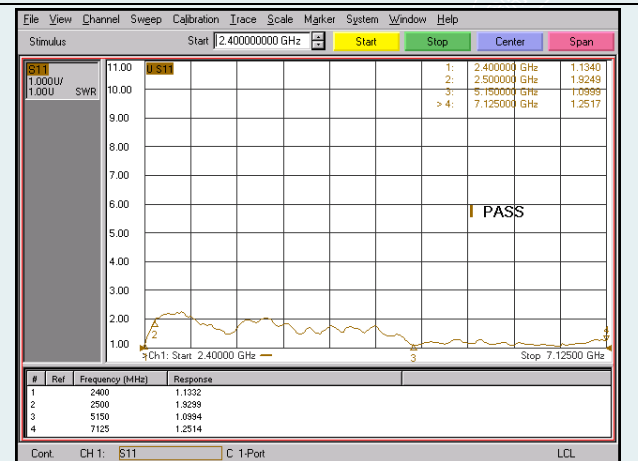


Fig.2-72 Function check after test 6# (WIFI-4)

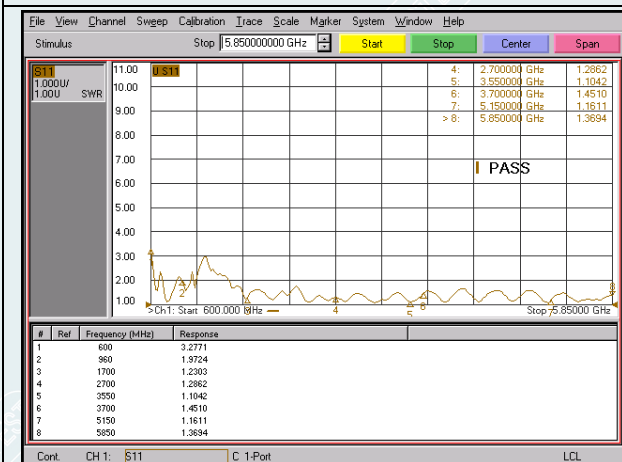


Fig.2-73 Function check before test 6# (CELL-1)

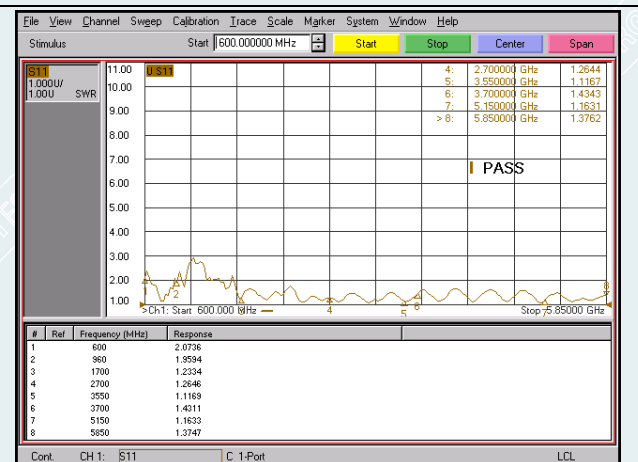


Fig.2-74 Function check after test 6# (CELL-1)

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Fig.2-75 Function check before test 6# (CELL-2)

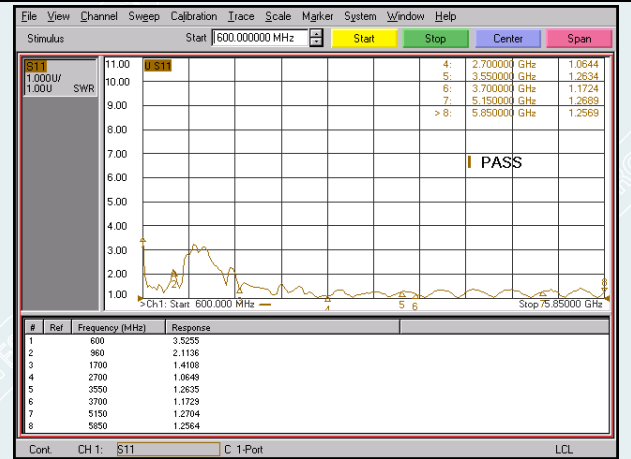


Fig.2-76 Function check after test 6# (CELL-2)

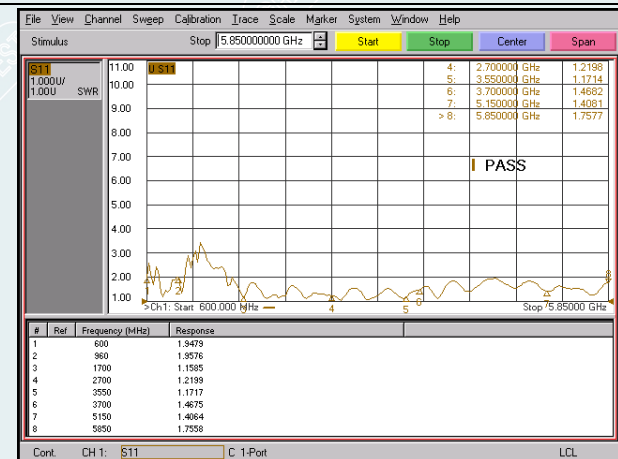


Fig.2-77 Function check before test 6# (CELL-3)

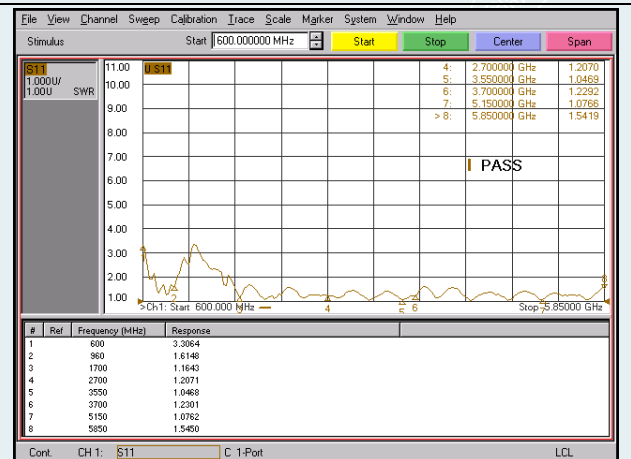


Fig.2-78 Function check after test 6# (CELL-3)

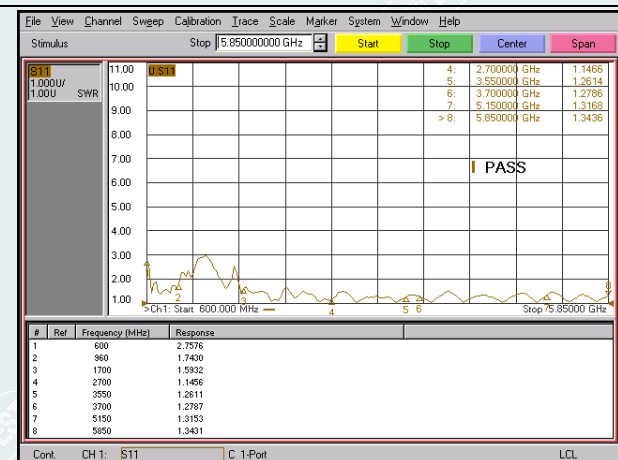


Fig.2-79 Function check before test 6# (CELL-4)

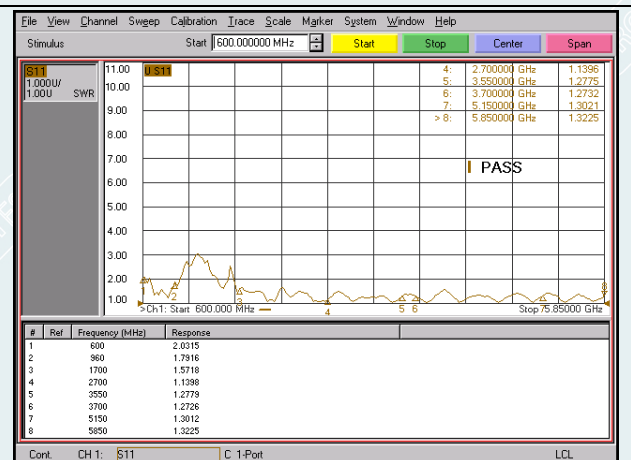


Fig.2-80 Function check after test 6# (CELL-4)

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3 Temperature – Humidity

3.1 Test condition

3.1.1 Test basis: IEC 60068-2-30:2008;

3.1.2 Test condition is shown in Table 3-1.

Table 3-1 Test condition

No	Temperature(°C)	Relative humidity(%)	Time(min)	Remarks
1	25	60	10	/
2	25	60	30	
3	25	97	30	
4	55	97	180	Two cycles
5	55	93	15	
6	55	93	510	
7	55	97	15	
8	55	97	180	
9	25	97	540	
10	25	75	30	/
11	30	75	10	
12	30	75	30	
13	30	75	120	

3.2 Sample information

Sample information is shown in Table 3-2.

Table 3-2 Sample information

Sample description	Model/Type	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	H202008078982-7#
		H202008078982-8#
		H202008078982-9#

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3.3 Test requirements

3.3.1 Appearance requirements: After the test, the appearance of the sample should have no abnormal phenomena such as deformation, discoloration or damage;

3.3.2 Function inspection: Inspection by the client.

3.4 Test result

Test results are shown in Table 3-3.

Table3-3 Test result

Sample description	Test No.	Visual inspection	Function inspection	Conclusion
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	H202008078982-7#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-8#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-9#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements

Note: Functions are checked by the client.

3.5 Test photos



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Fig.3-3 Sample installation



Fig.3-4 Alternating damp heat curve



Fig.3-5 Function check before test 7# (GPS)

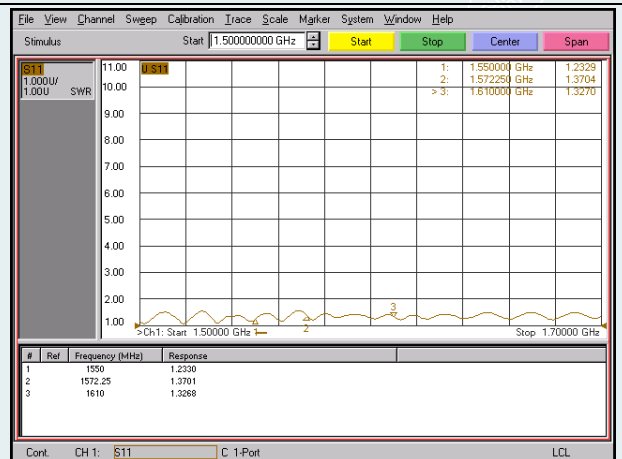


Fig.3-6 Function check after test 7# (GPS)

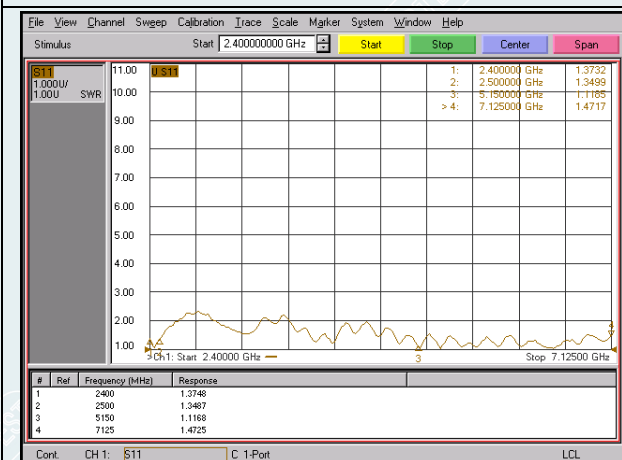


Fig.3-7 Function check before test 7# (WIFI-1)

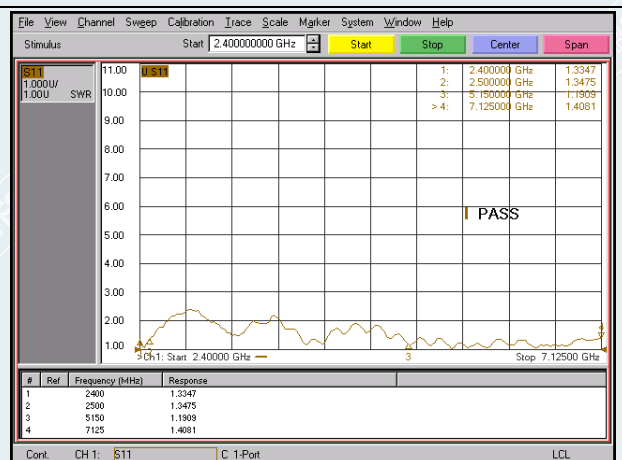


Fig.3-8 Function check after test 7# (WIFI-1)

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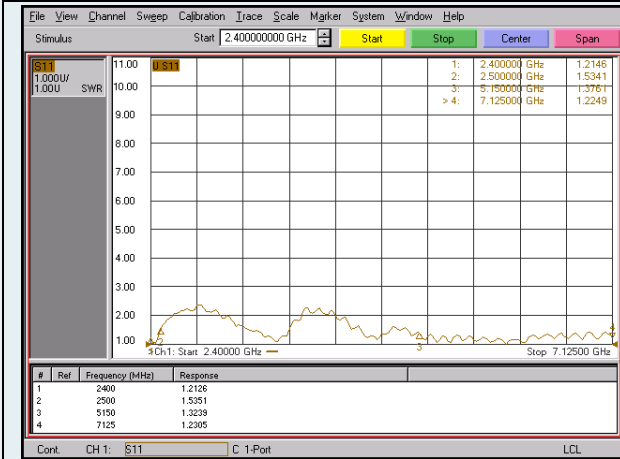


Fig.3-9 Function check before test 7# (WIFI-2)

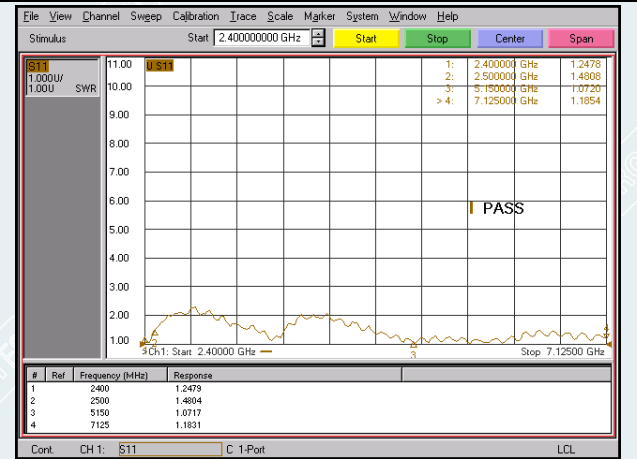


Fig.3-10 Function check after test 7# (WIFI-2)

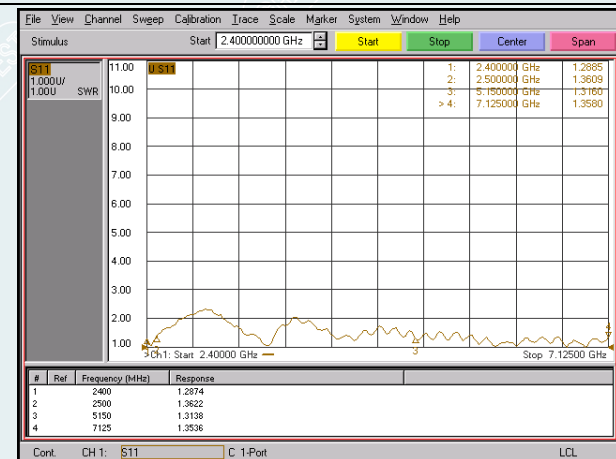


Fig.3-11 Function check before test 7# (WIFI-3)

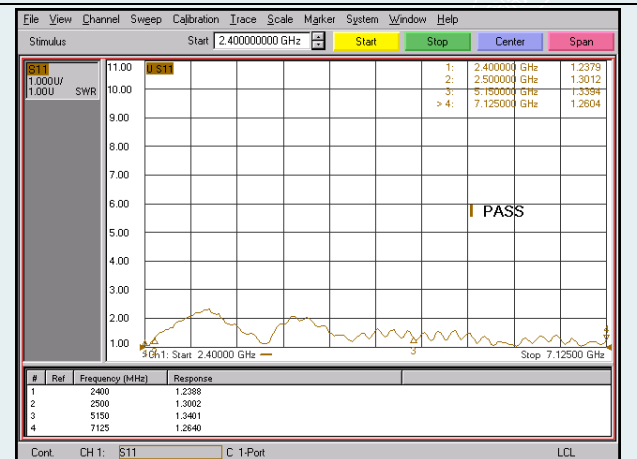


Fig.3-12 Function check after test 7# (WIFI-3)

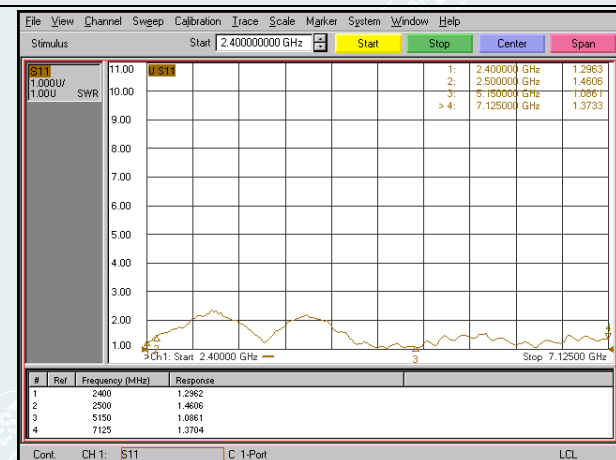


Fig.3-13 Function check before test 7# (WIFI-4)

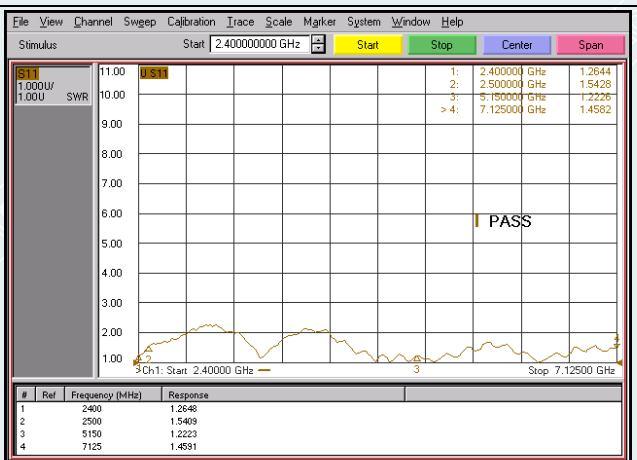


Fig.3-14 Function check after test 7# (WIFI-4)

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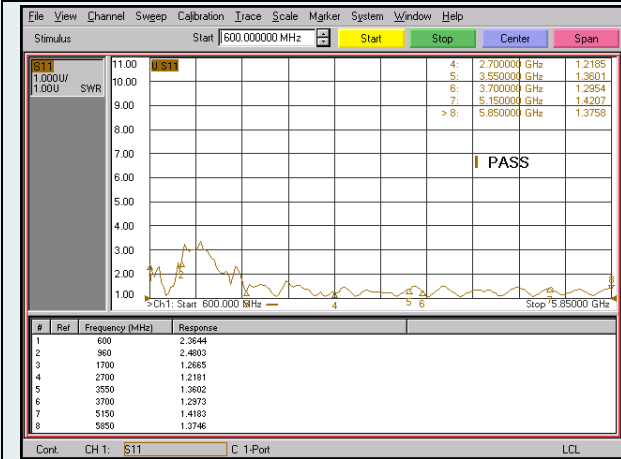


Fig.3-15 Function check before test 7# (CELL-1)

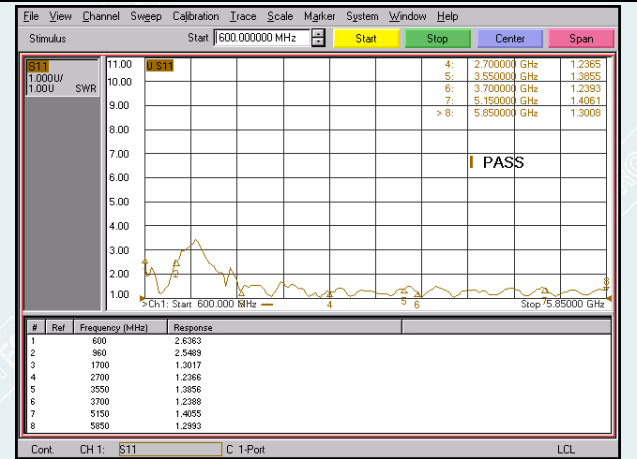


Fig.3-16 Function check after test 7# (CELL-1)

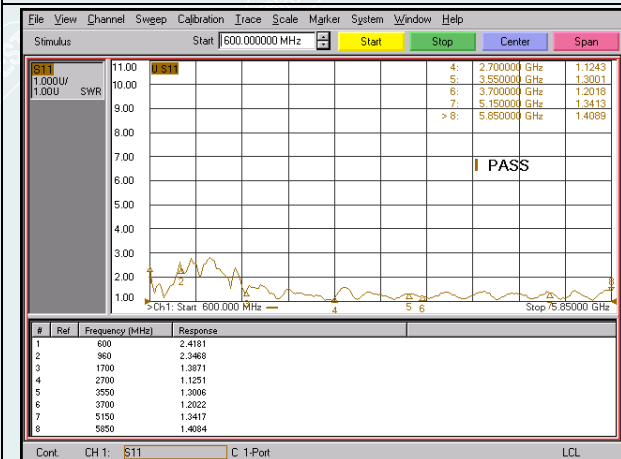


Fig.3-17 Function check before test 7# (CELL-2)

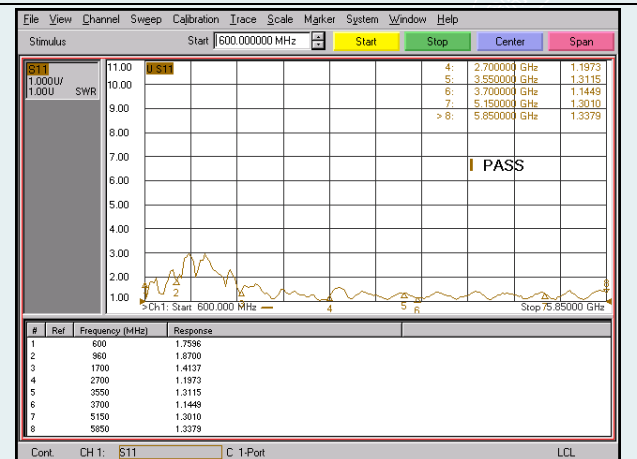


Fig.3-18 Function check after test 7# (CELL-2)

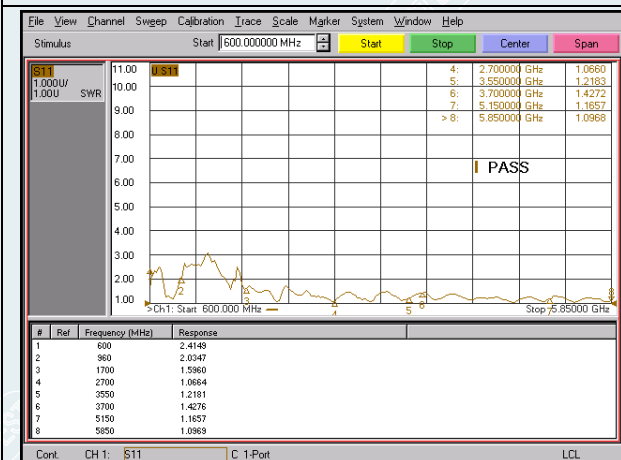


Fig.3-19 Function check before test 7# (CELL-3)

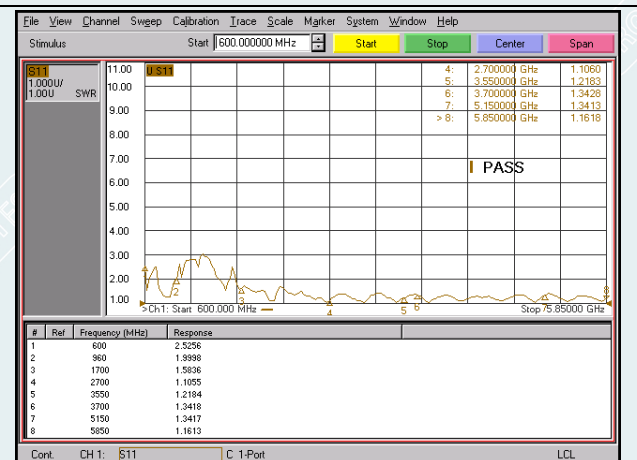


Fig.3-20 Function check after test 7# (CELL-3)

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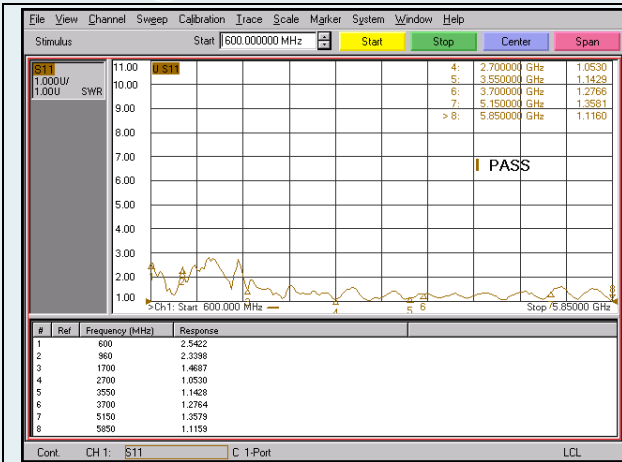


Fig.3-21 Function check before test 7# (CELL-4)

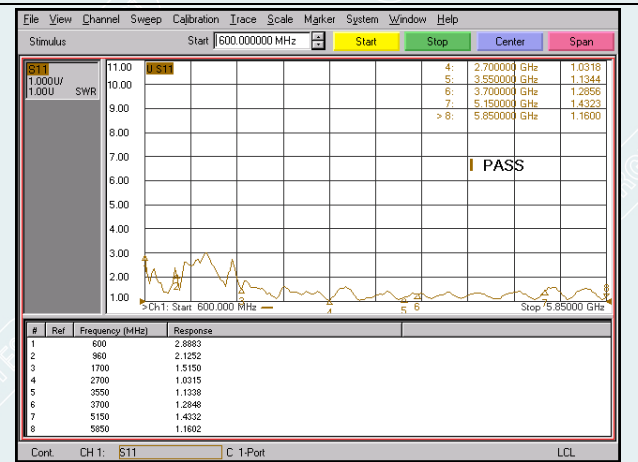


Fig.3-22 Function check after test 7# (CELL-4)



Fig.3-23 Function check before test 8# (GPS)

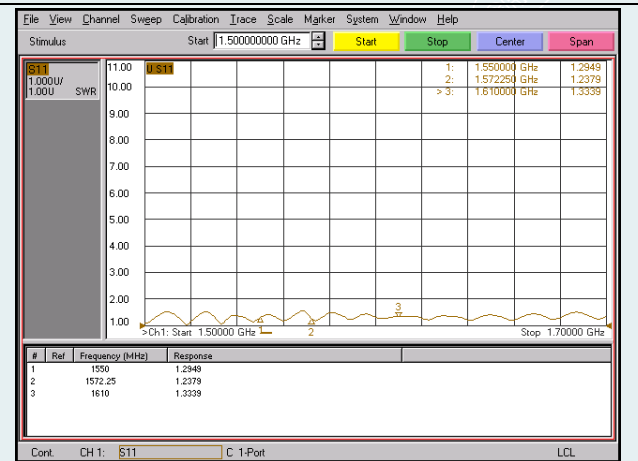


Fig.3-24 Function check after test 8# (GPS)

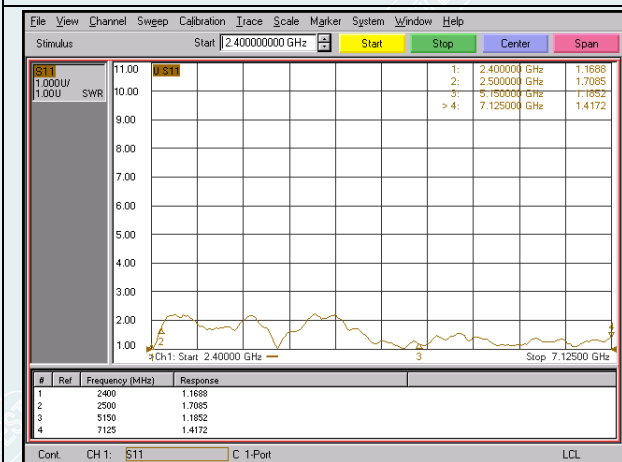


Fig.3-25 Function check before test 8# (WIFI-1)

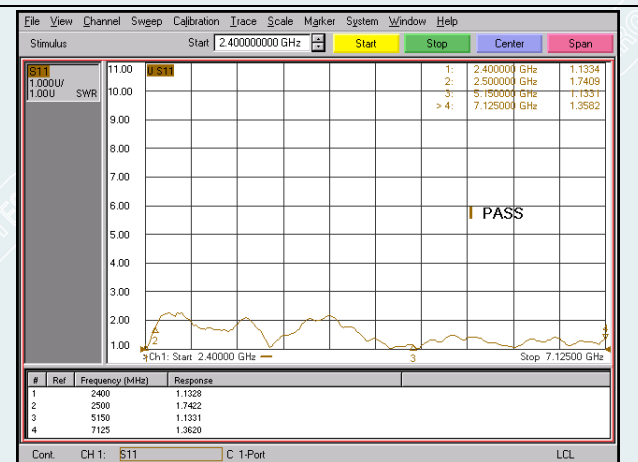


Fig.3-26 Function check after test 8# (WIFI-1)

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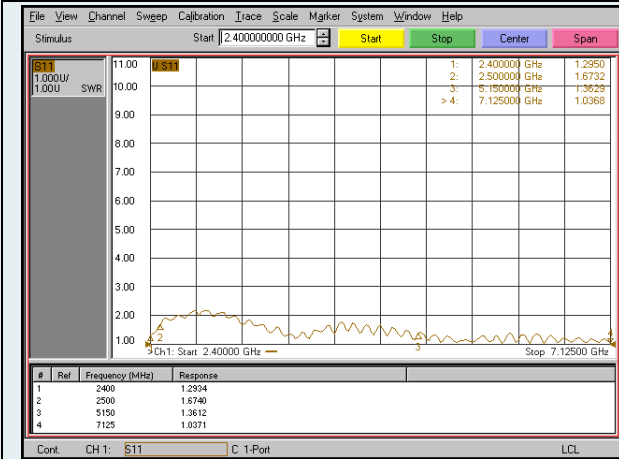


Fig.3-27 Function check before test 8# (WIFI-2)

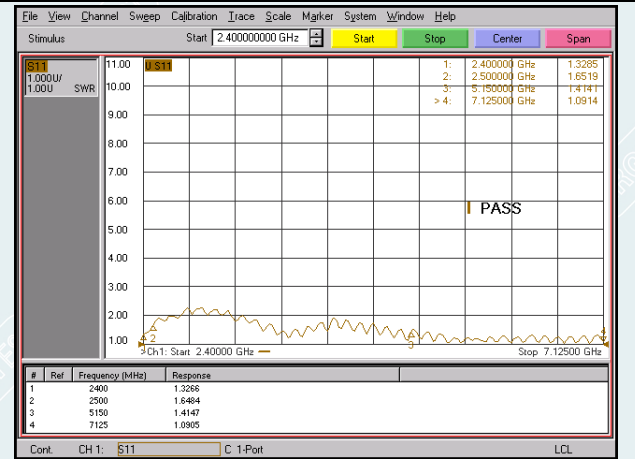


Fig.3-28 Function check after test 8# (WIFI-2)

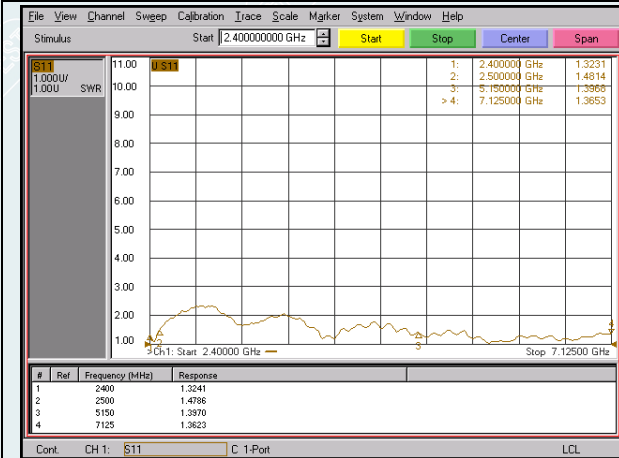


Fig.3-29 Function check before test 8# (WIFI-3)

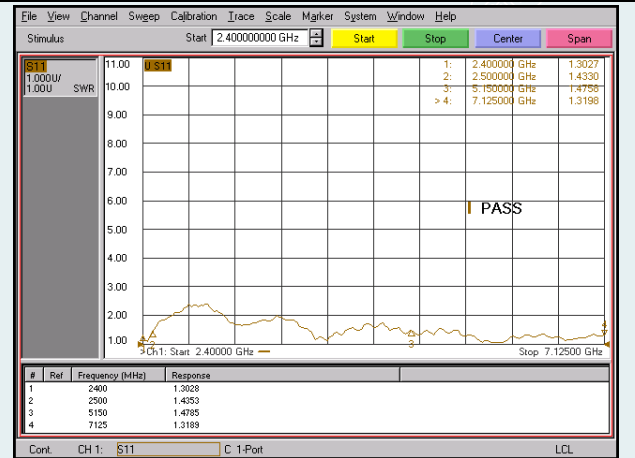


Fig.3-30 Function check after test 8# (WIFI-3)

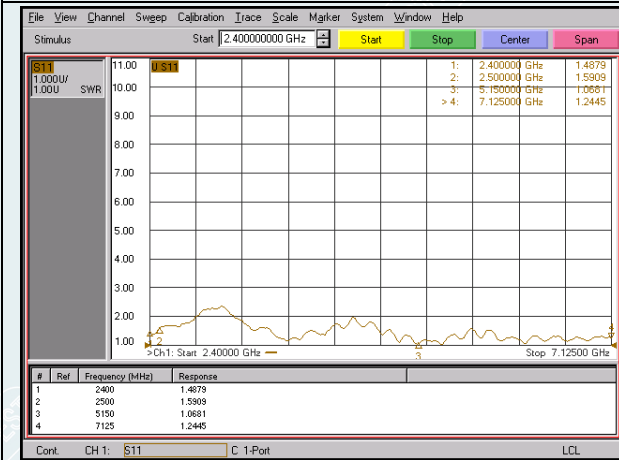


Fig.3-31 Function check before test 8# (WIFI-4)

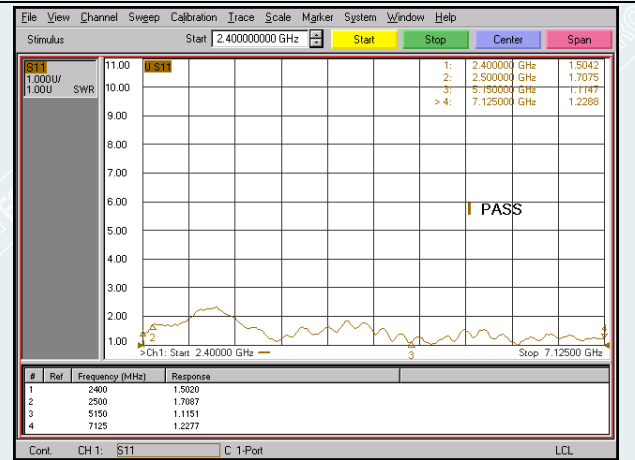


Fig.3-32 Function check after test 8# (WIFI-4)

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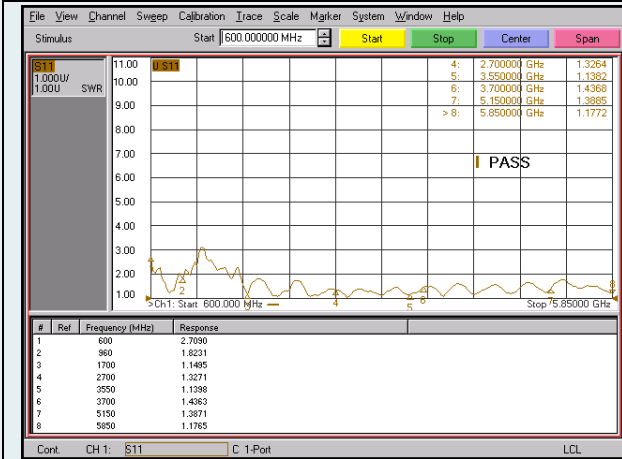


Fig.3-33 Function check before test 8# (CELL-1)

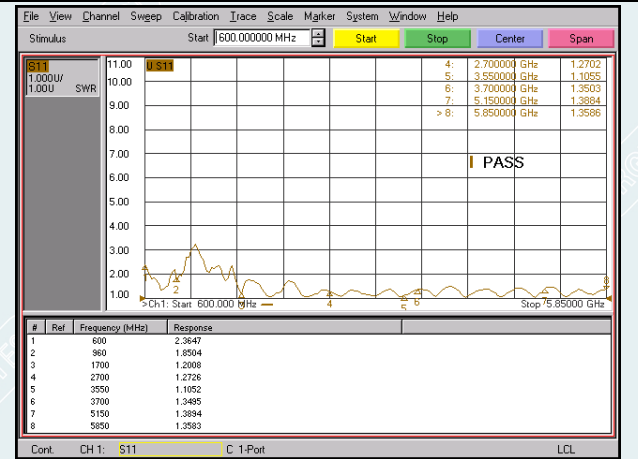


Fig.3-34 Function check after test 8# (CELL-1)

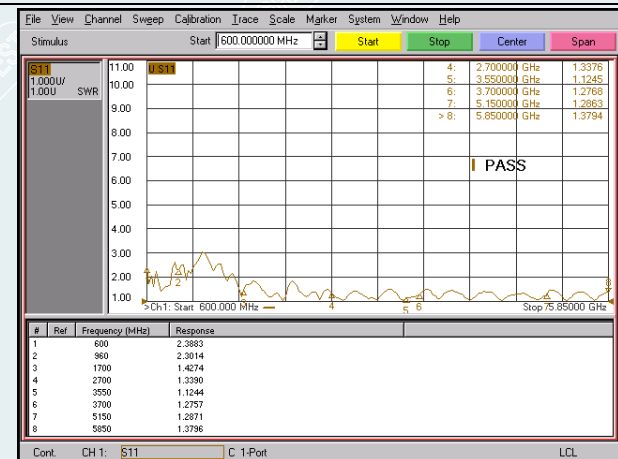


Fig.3-35 Function check before test 8# (CELL-2)

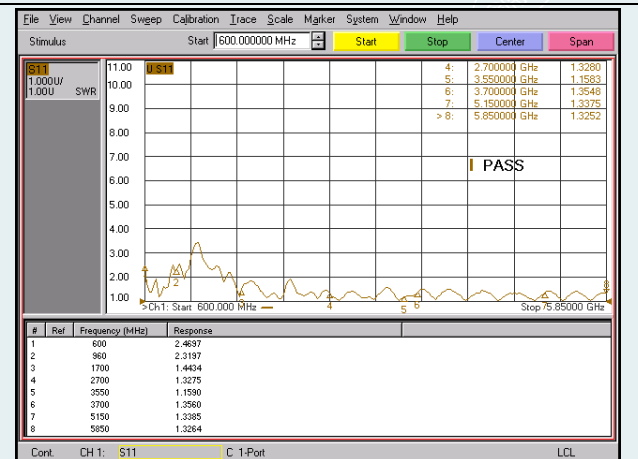


Fig.3-36 Function check after test 8# (CELL-2)



Fig.3-37 Function check before test 8# (CELL-3)

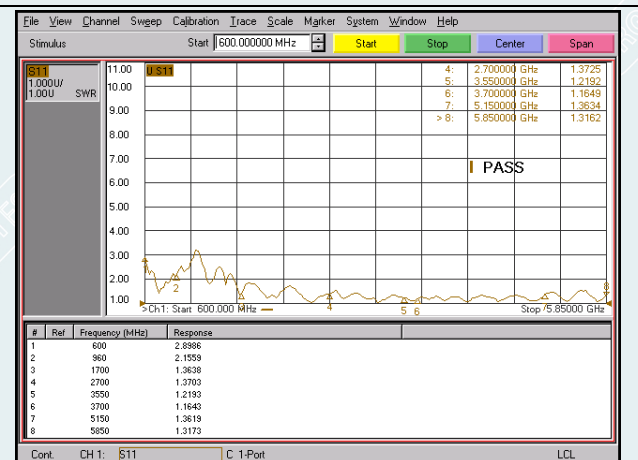


Fig.3-38 Function check after test 8# (CELL-3)

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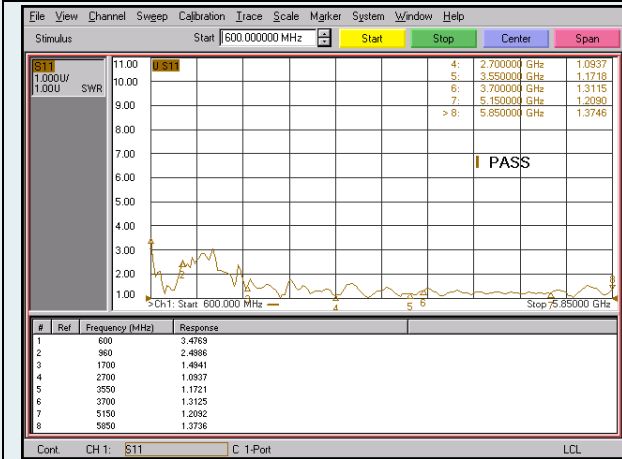


Fig.3-39 Function check before test 8# (CELL-4)

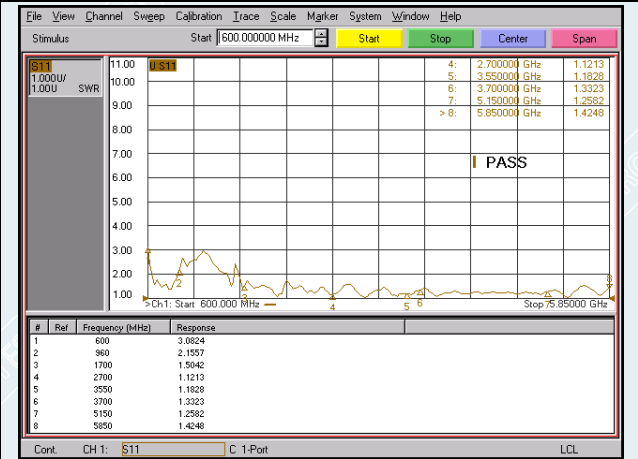


Fig.3-40 Function check after test 8# (CELL-4)

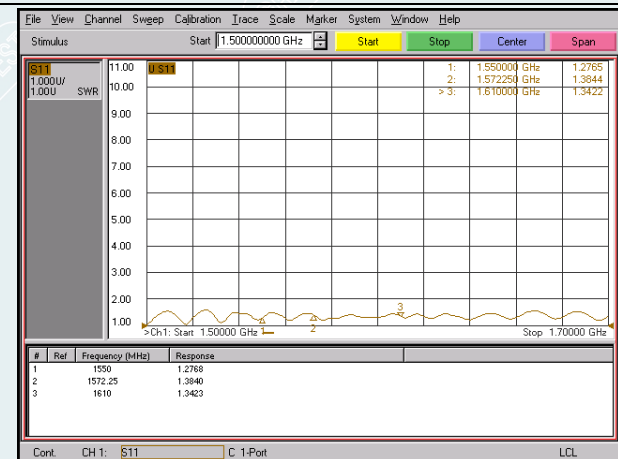


Fig.3-41 Function check before test 9# (GPS)

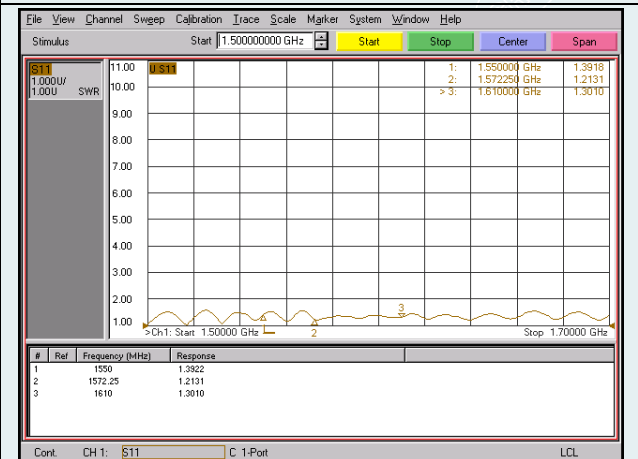


Fig.3-42 Function check after test 9# (GPS)

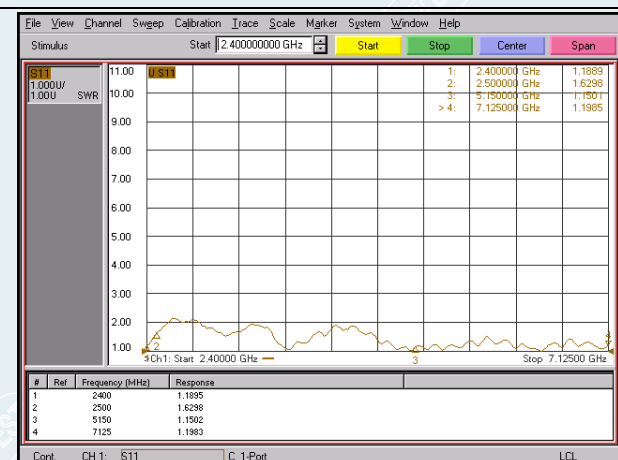


Fig.3-43 Function check before test 9# (WIFI-1)

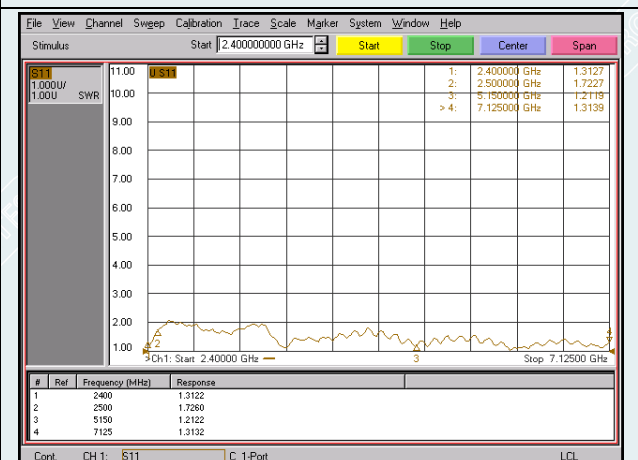


Fig.3-44 Function check after test 9# (WIFI-1)

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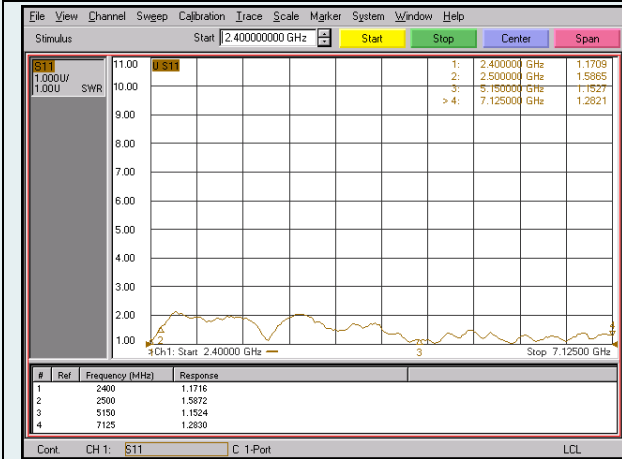


Fig.3-45 Function check before test 9# (WIFI-2)

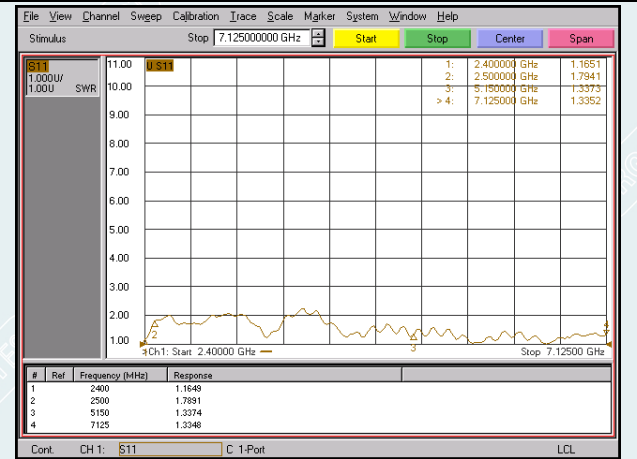


Fig.3-46 Function check after test 9# (WIFI-2)

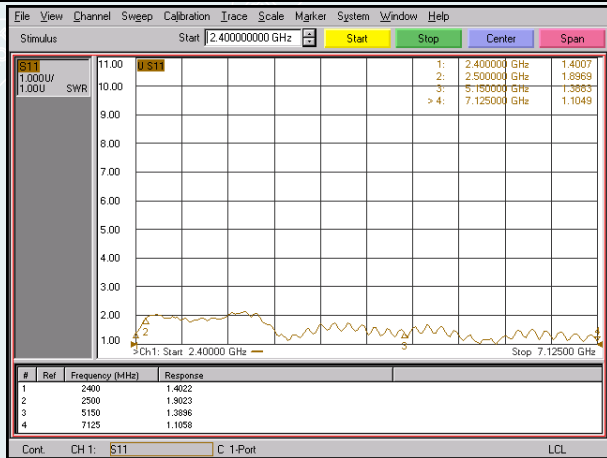


Fig.3-47 Function check before test 9# (WIFI-3)

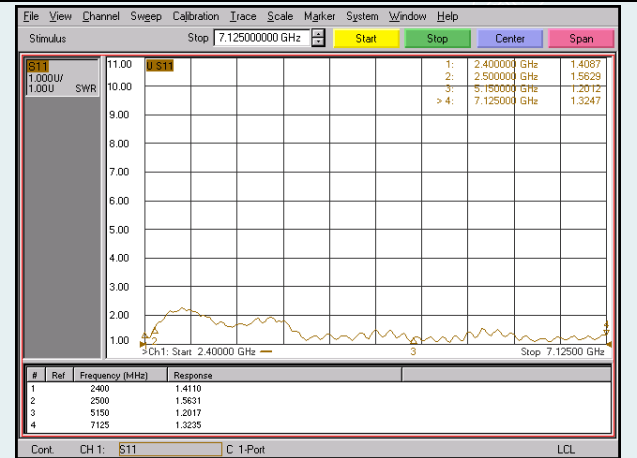


Fig.3-48 Function check after test 9# (WIFI-3)

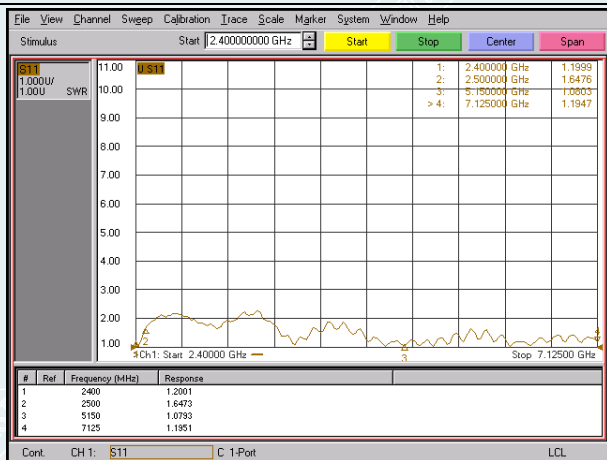


Fig.3-49 Function check before test 9# (WIFI-4)

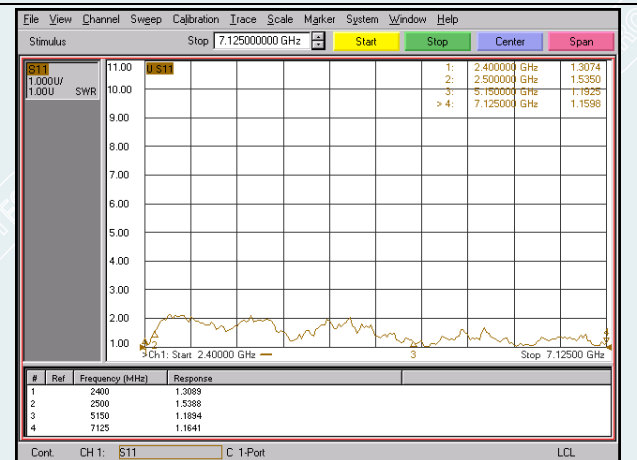


Fig.3-50 Function check after test 9# (WIFI-4)

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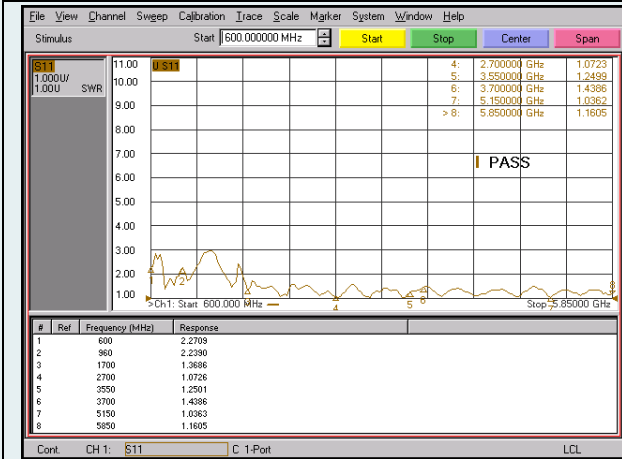


Fig.3-51 Function check before test 9# (CELL-1)

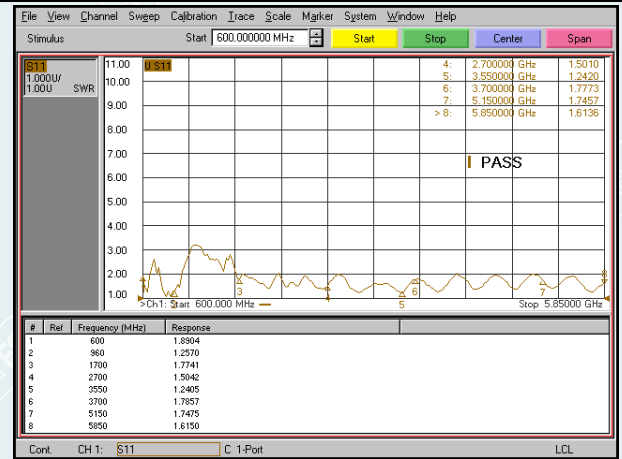


Fig.3-52 Function check after test 9# (CELL-1)

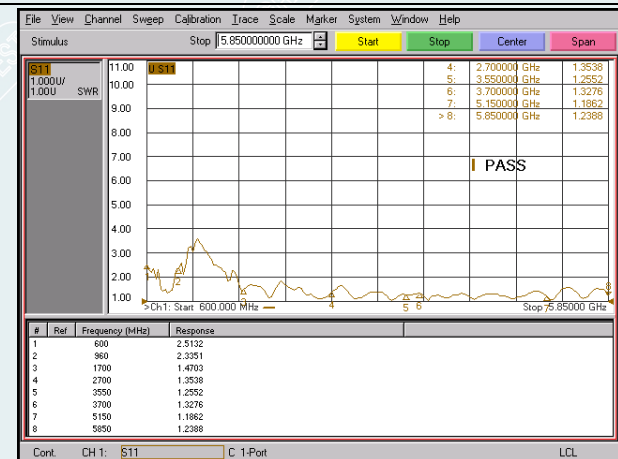


Fig.3-53 Function check before test 9# (CELL-2)

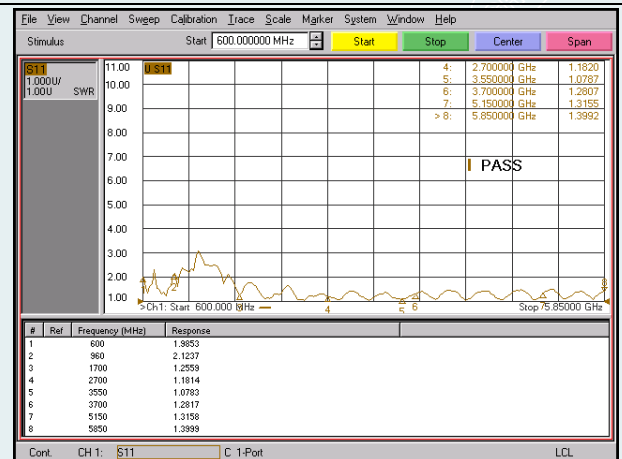


Fig.3-54 Function check after test 9# (CELL-2)

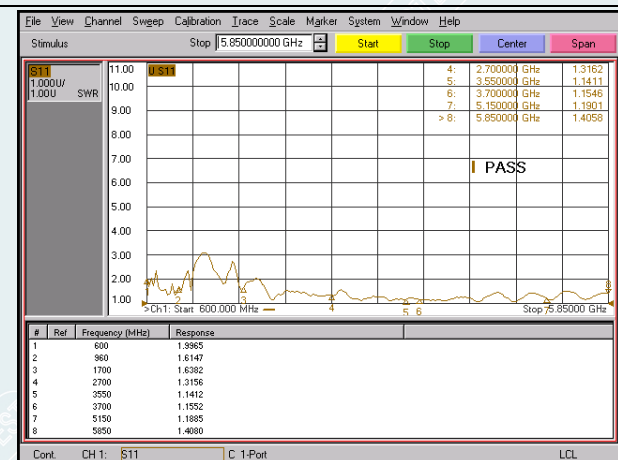


Fig.3-55 Function check before test 9# (CELL-3)

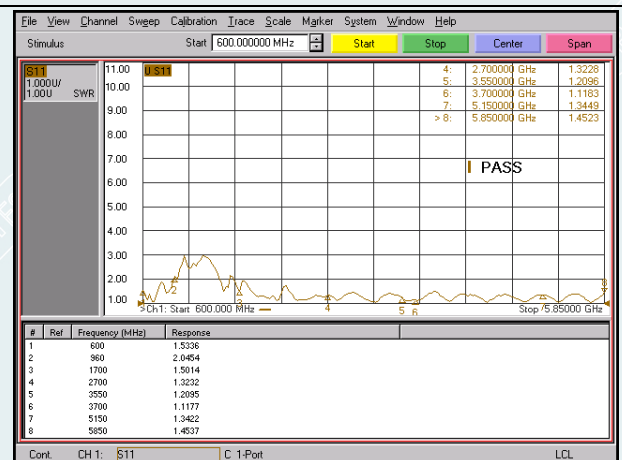


Fig.3-56 Function check after test 9# (CELL-3)

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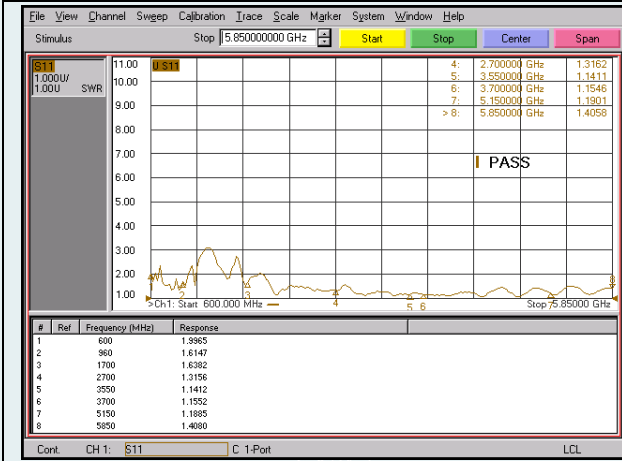


Fig.3-57 Function check before test 9# (CELL-4)

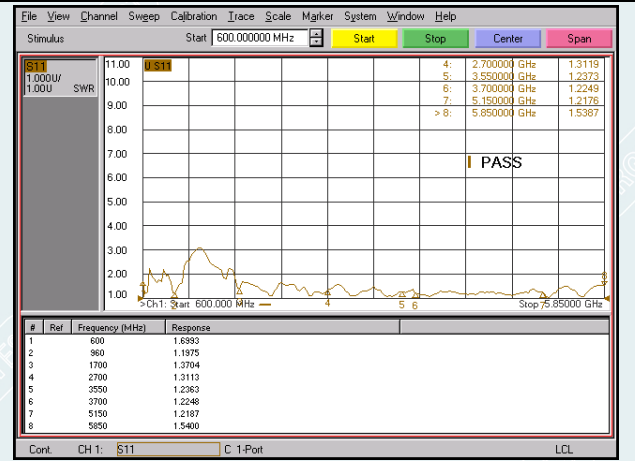


Fig.3-58 Function check after test 9# (CELL-4)

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4 Unpackaged Drop

4.1 Test condition

- 4.1.1 Test basis: IEC 60068-2-31:2008;
- 4.1.2 Height of drop: 1m;
- 4.1.3 Number of drops: 6 faces, 3 edges and 1 corner;
- 4.1.4 Falling ground material: Steel plate.

4.2 Sample information

Sample information is shown in Table 4-1.

Table 4-1 Sample information

Sample qescription	Model/Type	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	H202008078982-10#
		H202008078982-11#
		H202008078982-12#

4.3 Test requirements

- 4.3.1 Appearance requirements: After the test, the sample appearance should have no damage, deformation and cracks, etc anomalies;
- 4.3.2 Function inspection: Inspection by the client.

4.4 Test result

Test results are shown in Table 4-2.

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Table4-2 Test result

Sample name	Test No.	Visual inspection	Function inspection	Conclusion
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	H202008078982-10#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-11#	There is abnormal noise when shaking.	Normal function before and after the test	Don't meet the requirements
	H202008078982-12#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements

Note: Functions are checked by the client.

4.5 Test photos



Fig.4-1 Before the test (10#~12#)



Fig.4-2 After the test (10#~12#)



Fig.4-3 Sample installation (corner)



Fig.4-4 Sample installation (edge)

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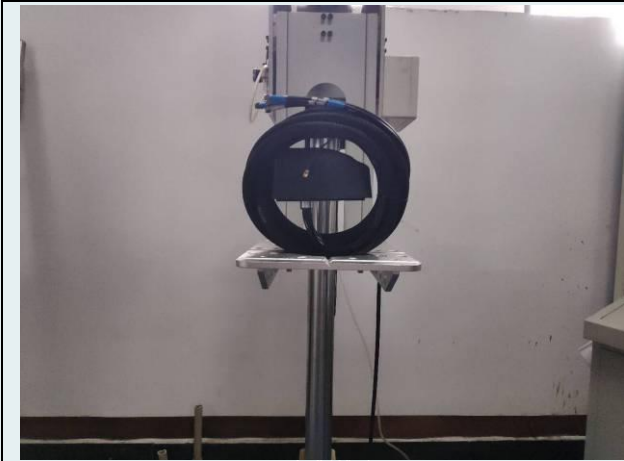


Fig.4-5 Sample installation (face)



Fig.4-6 Test height (1m)

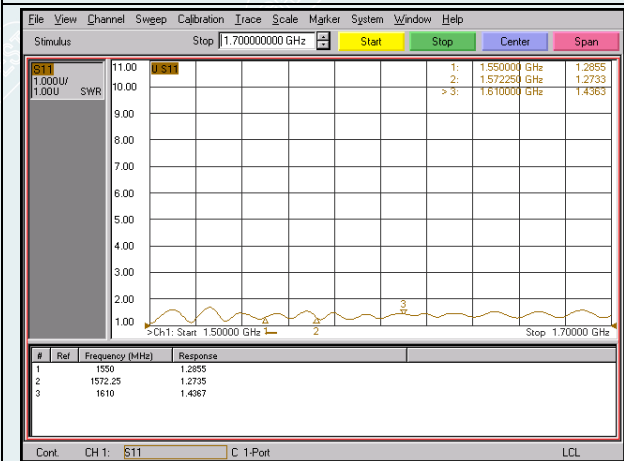


Fig.4-7 Function check before test 10# (GPS)

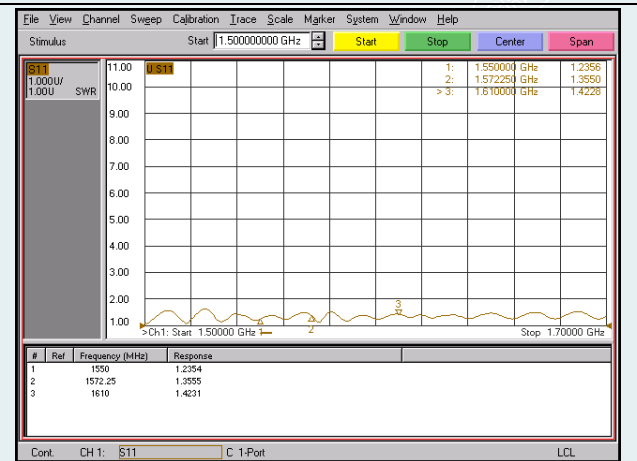


Fig.4-8 Function check after test 10# (GPS)

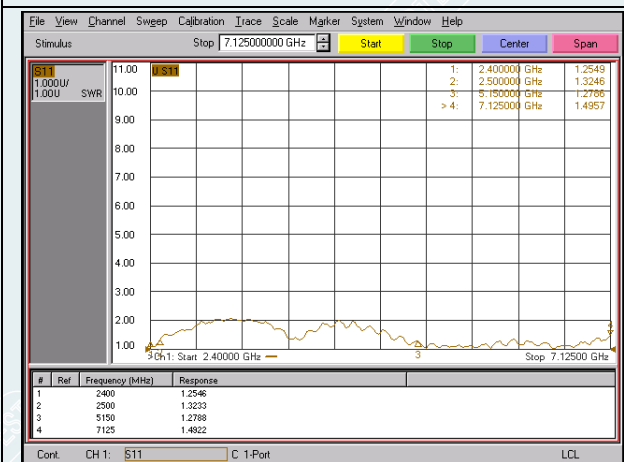


Fig.4-9 Function check before test 10# (WIFI-1)



Fig.4-10 Function check after test 10# (WIFI-1)

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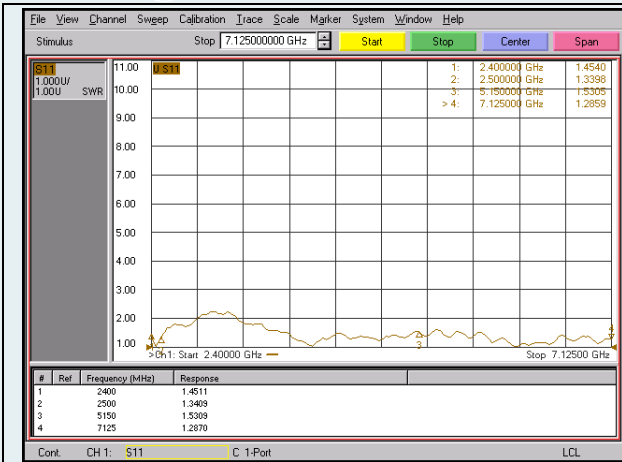


Fig.4-11 Function check before test 10# (WIFI-2)

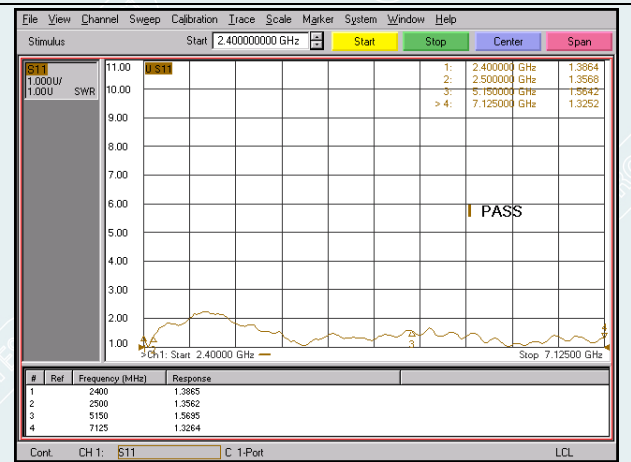


Fig.4-12 Function check after test 10# (WIFI-2)

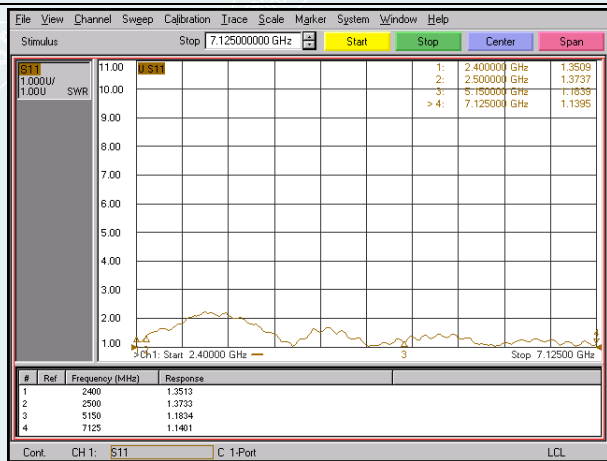


Fig.4-13 Function check before test 10# (WIFI-3)

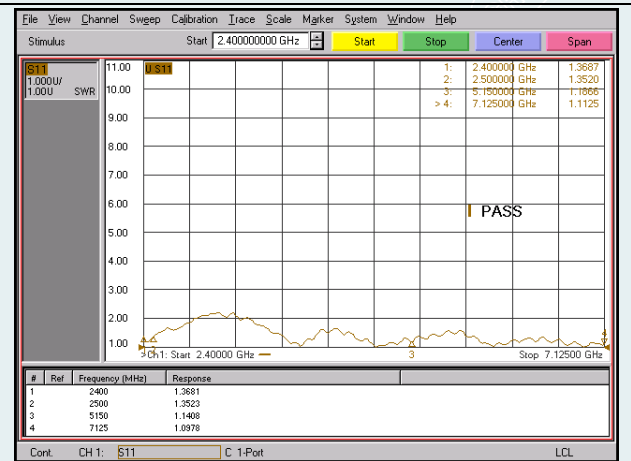


Fig.4-14 Function check after test 10# (WIFI-3)

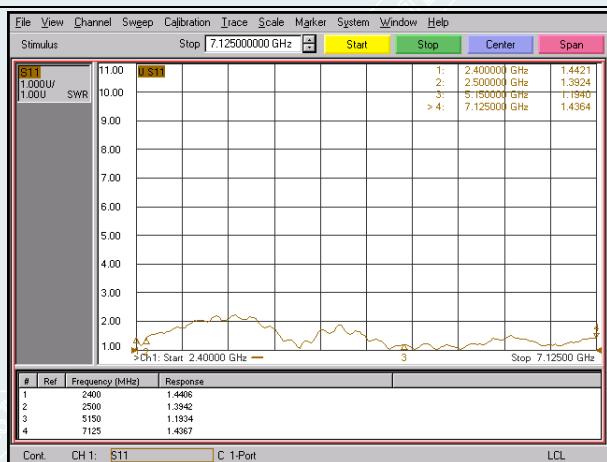


Fig.4-15 Function check before test 10# (WIFI-4)

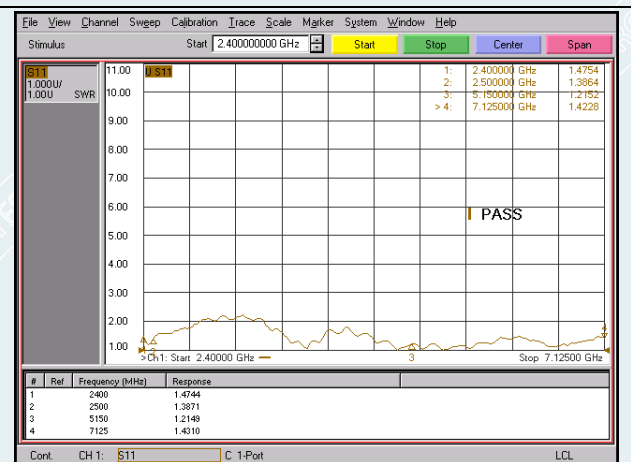


Fig.4-16 Function check after test 10# (WIFI-4)

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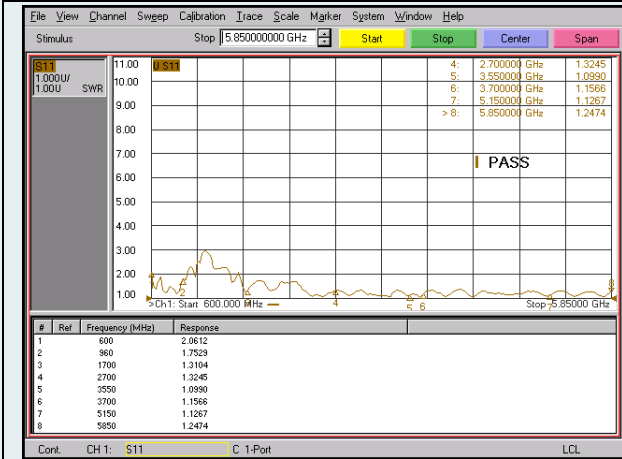


Fig.4-17 Function check before test 10# (CELL-1)



Fig.4-18 Function check after test 10# (CELL-1)

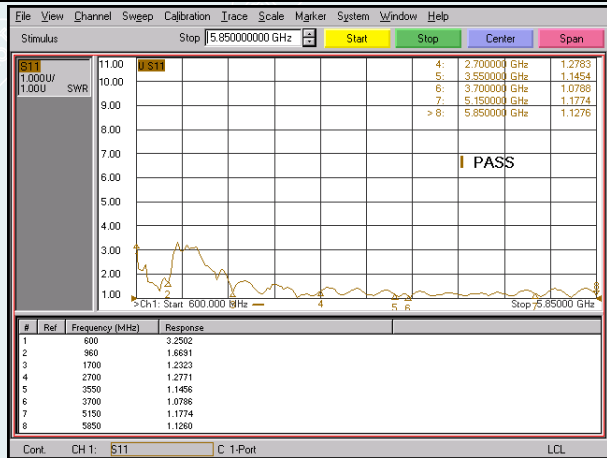


Fig.4-19 Function check before test 10# (CELL-2)

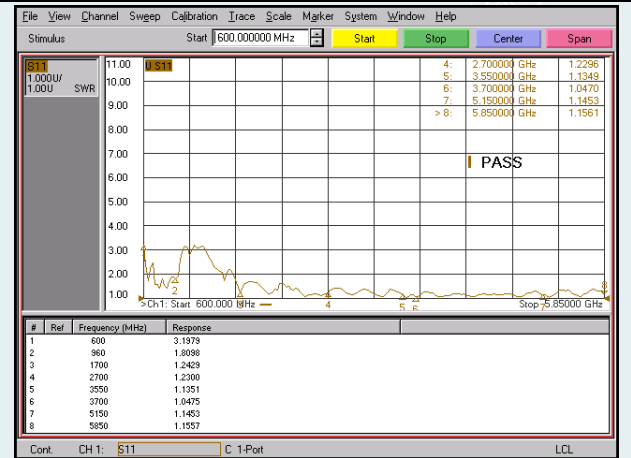


Fig.4-20 Function check after test 10# (CELL-2)

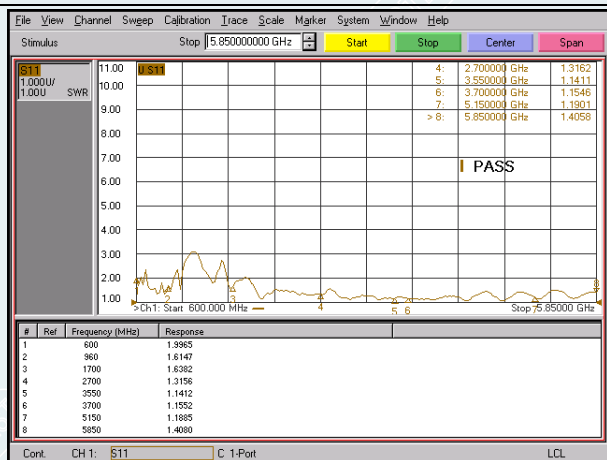


Fig.4-21 Function check before test 10# (CELL-3)

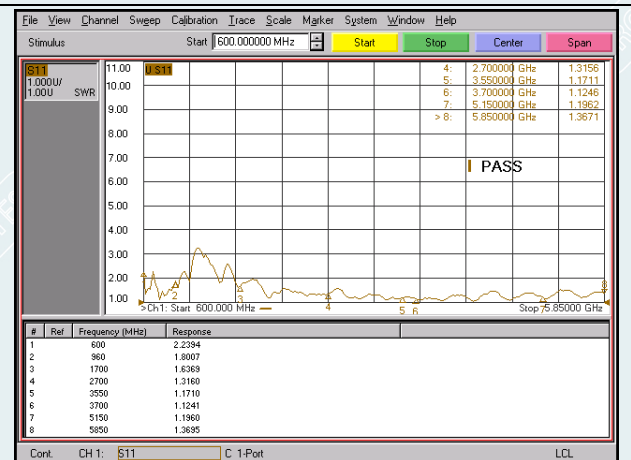


Fig.4-22 Function check after test 10# (CELL-3)

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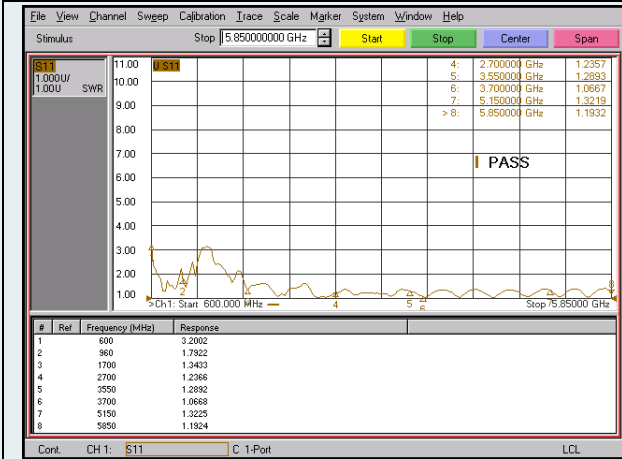


Fig.4-23 Function check before test 10# (CELL-4)

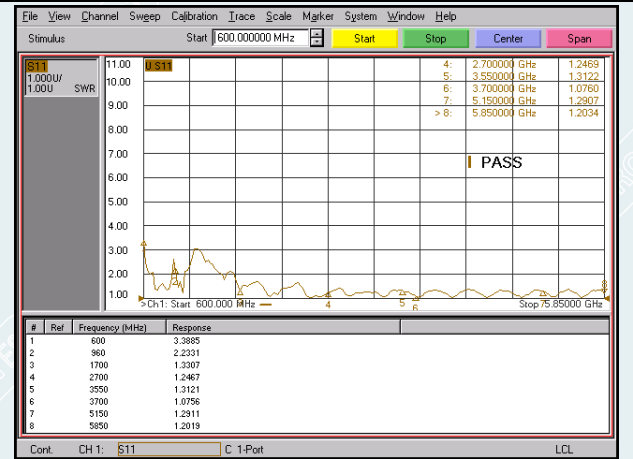


Fig.4-24 Function check after test 10# (CELL-4)

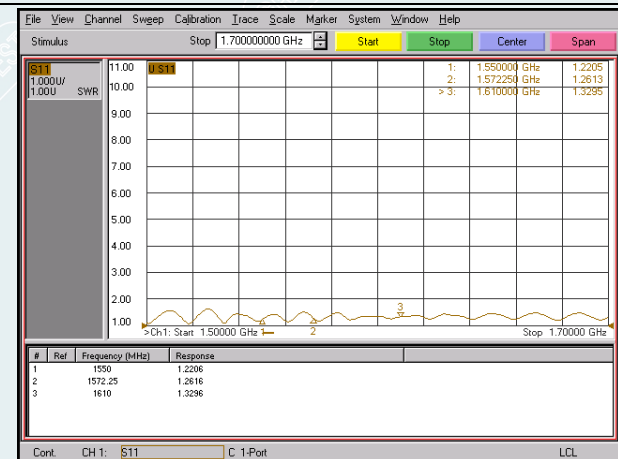


Fig.4-25 Function check before test 11# (GPS)

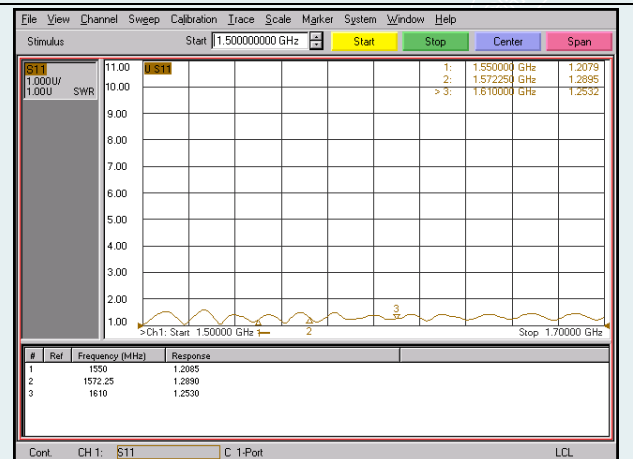


Fig.4-26 Function check after test 11# (GPS)

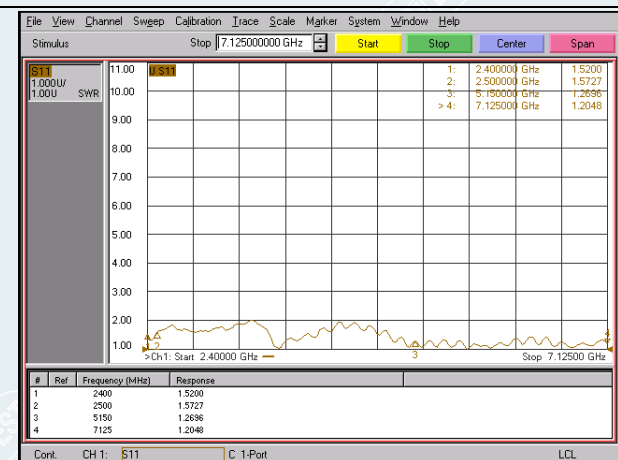


Fig.4-27 Function check before test 11# (WIFI-1)

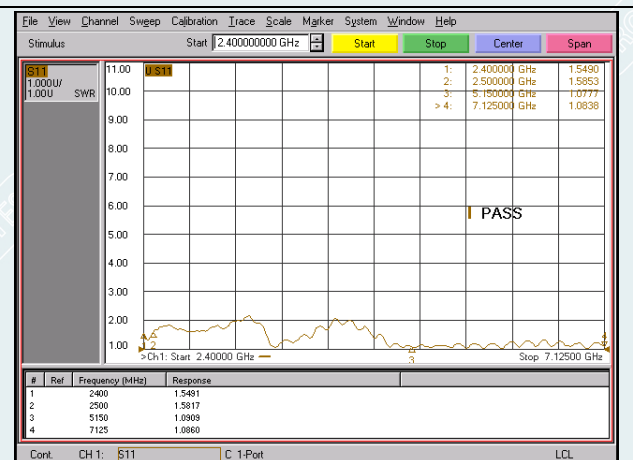


Fig.4-28 Function check after test 11# (WIFI-1)

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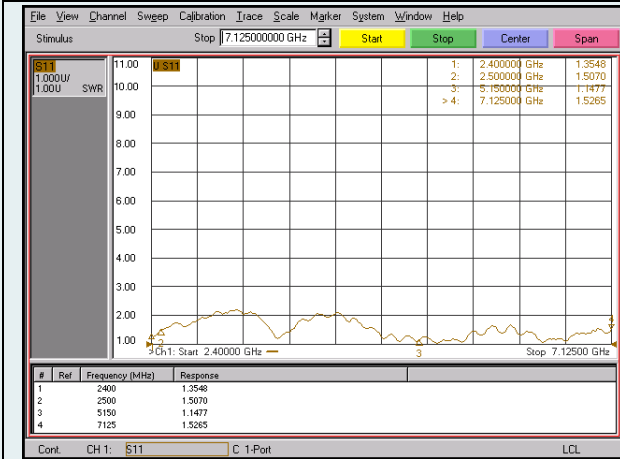


Fig.4-29 Function check before test 11# (WIFI-2)

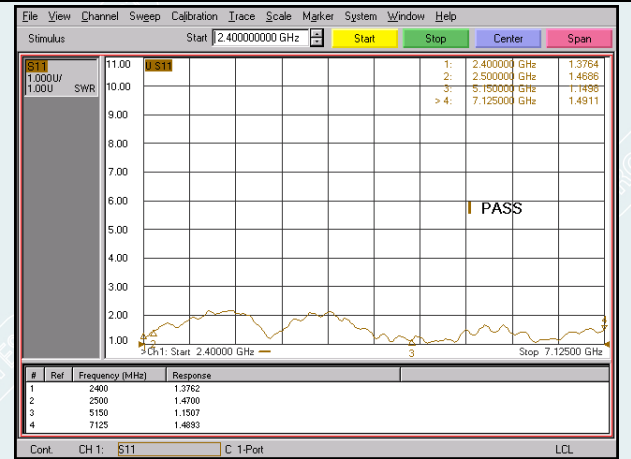


Fig.4-30 Function check after test 11# (WIFI-2)

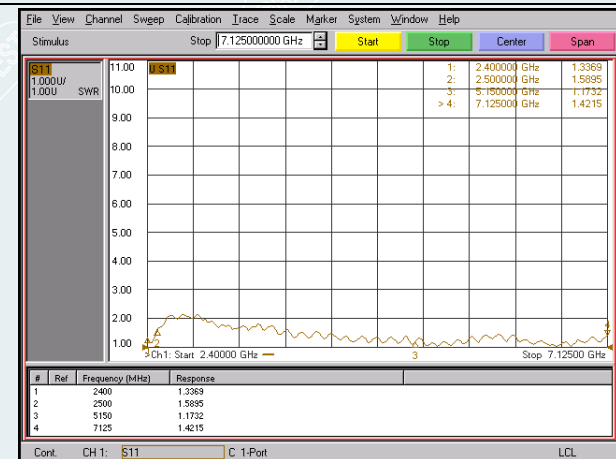


Fig.4-31 Function check before test 11# (WIFI-3)

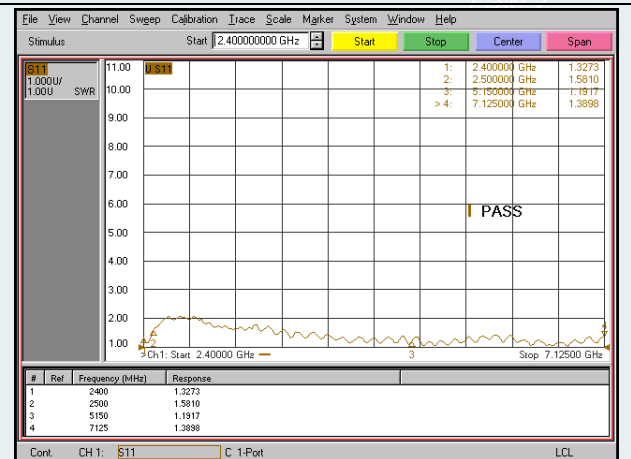


Fig.4-32 Function check after test 11# (WIFI-3)

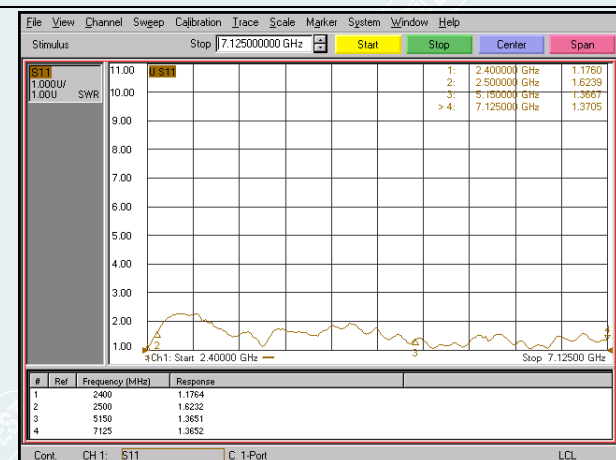


Fig.4-33 Function check before test 11# (WIFI-4)

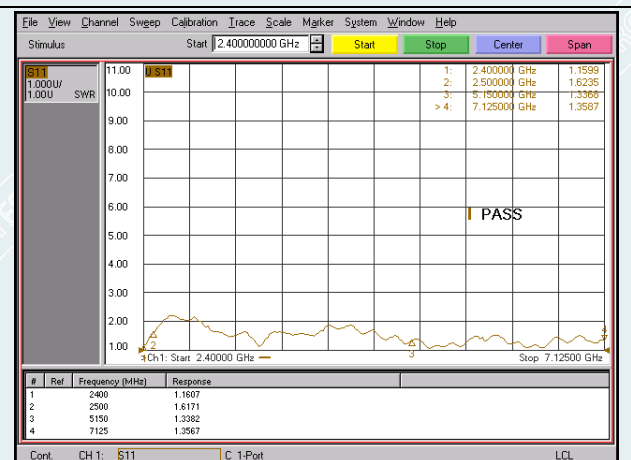


Fig.4-34 Function check after test 11# (WIFI-4)

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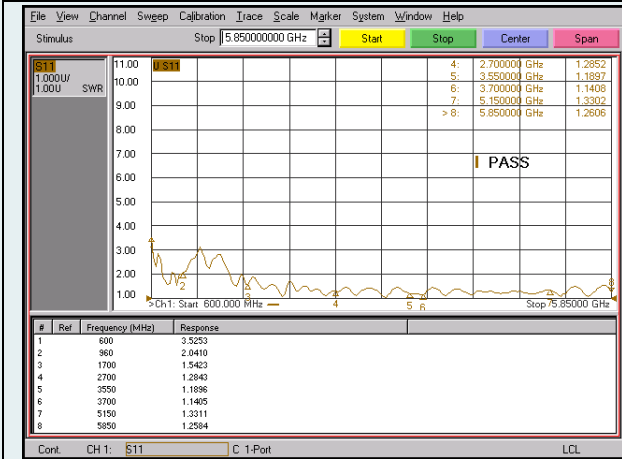


Fig.4-35 Function check before test 11# (CELL-1)

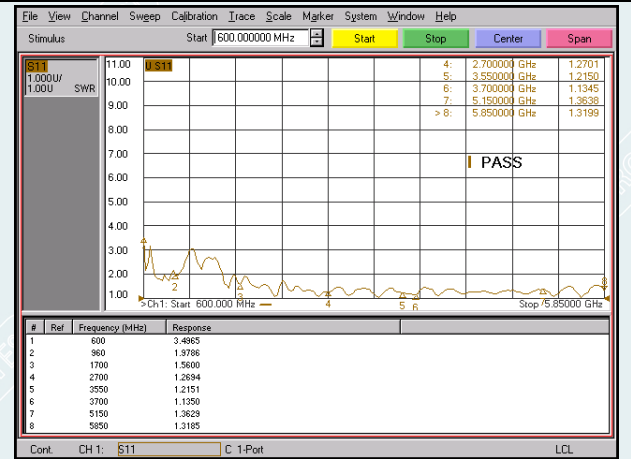


Fig.4-36 Function check after test 11# (CELL-1)

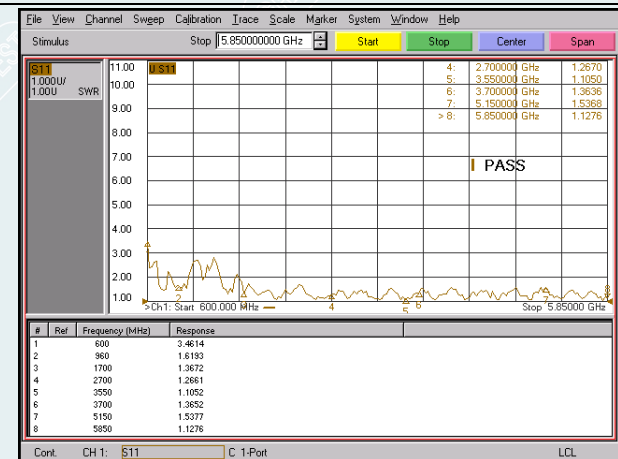


Fig.4-37 Function check before test 11# (CELL-2)

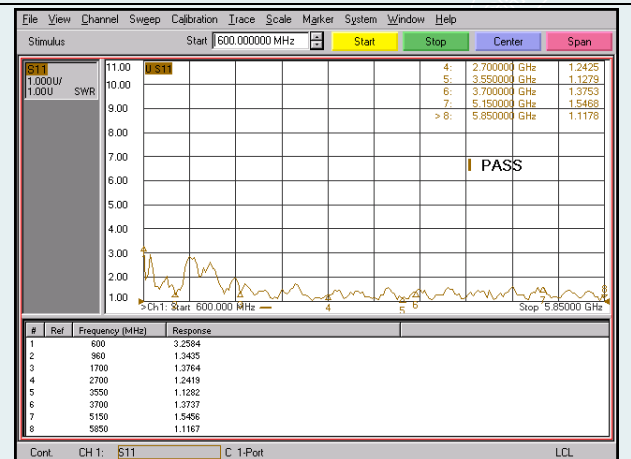


Fig.4-38 Function check after test 11# (CELL-2)

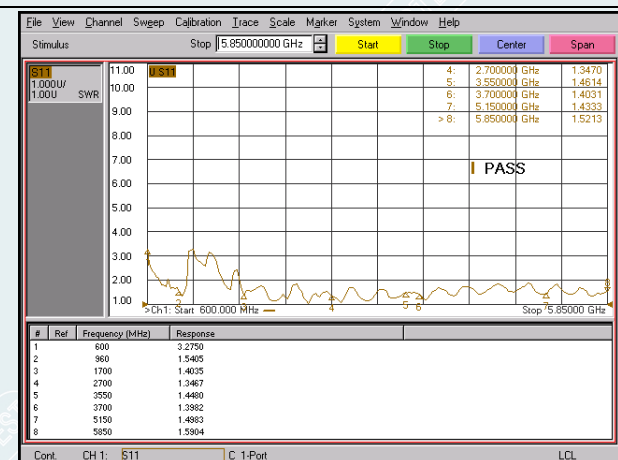


Fig.4-39 Function check before test 11# (CELL-3)

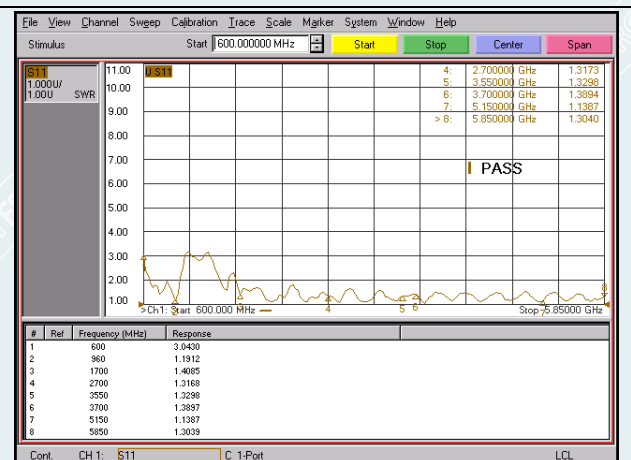


Fig.4-40 Function check after test 11# (CELL-3)

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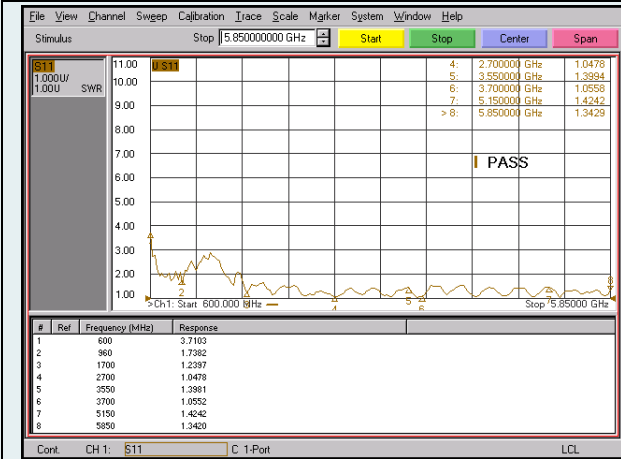


Fig.4-41 Function check before test 11# (CELL-4)

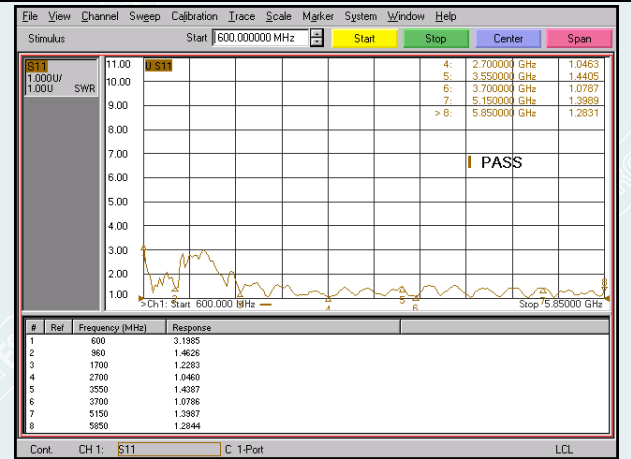


Fig.4-42 Function check after test 11# (CELL-4)



Fig.4-43 Function check before test 12# (GPS)

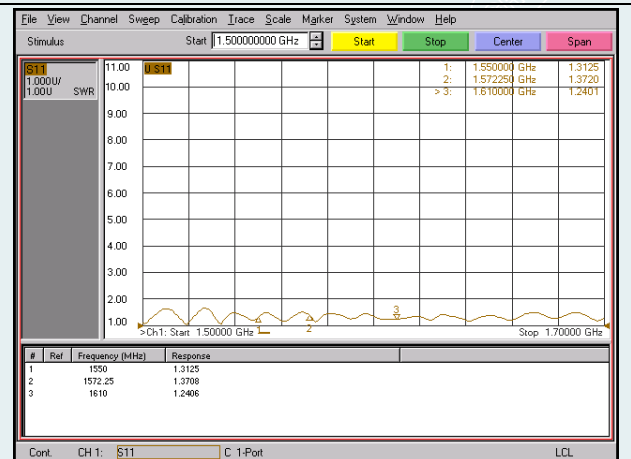


Fig.4-44 Function check after test 12# (GPS)

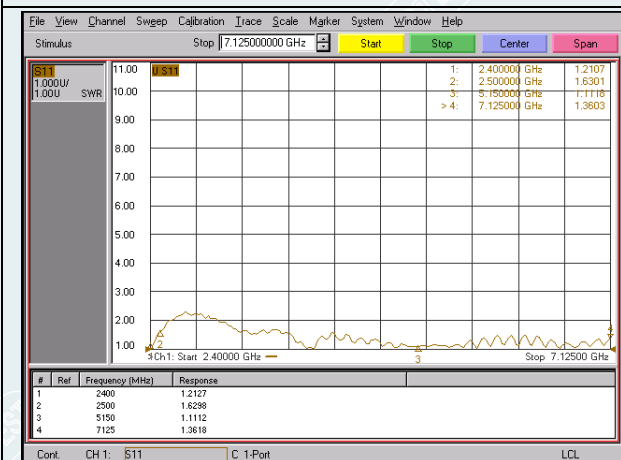


Fig.4-45 Function check before test 12# (WIFI-1)

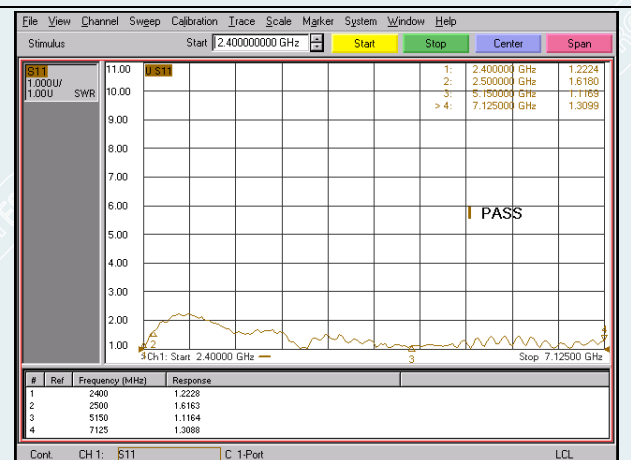


Fig.4-46 Function check after test 12# (WIFI-1)

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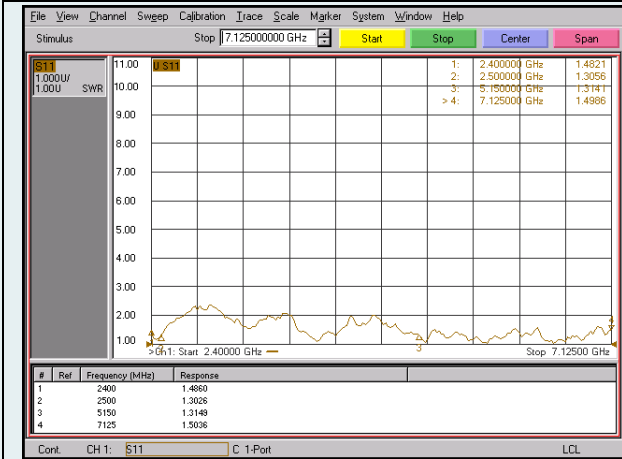


Fig.4-47 Function check before test 12# (WIFI-2)

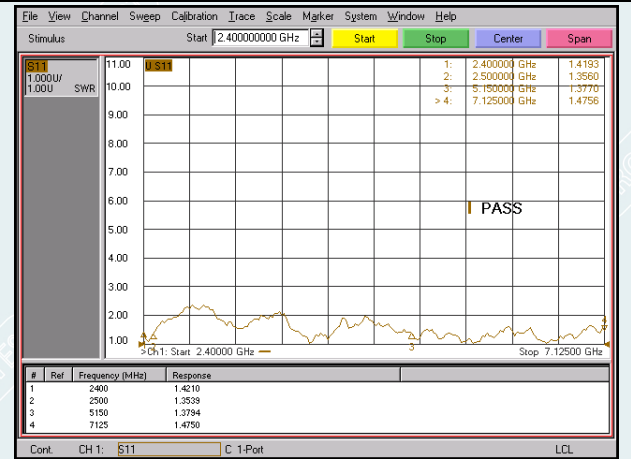


Fig.4-48 Function check after test 12# (WIFI-2)

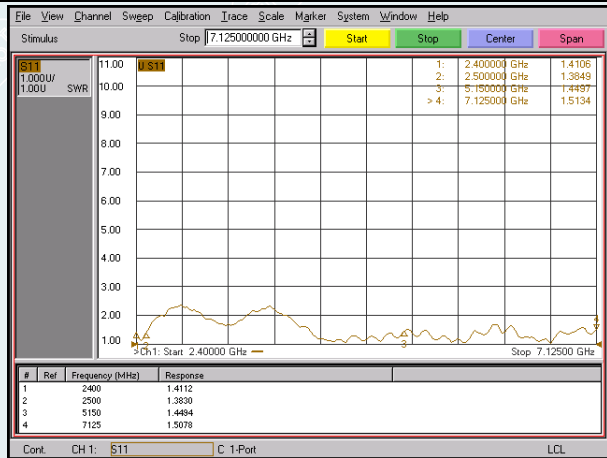


Fig.4-49 Function check before test 12# (WIFI-3)

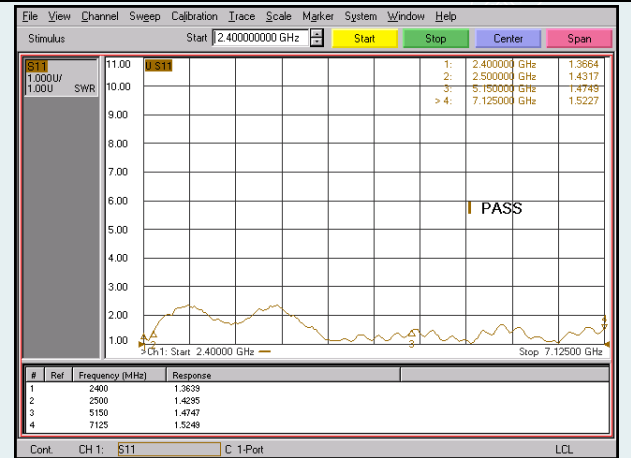


Fig.4-50 Function check after test 12# (WIFI-3)

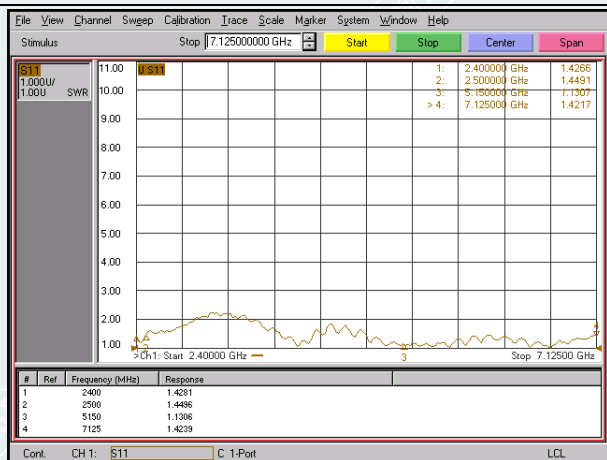


Fig.4-51 Function check before test 12# (WIFI-4)

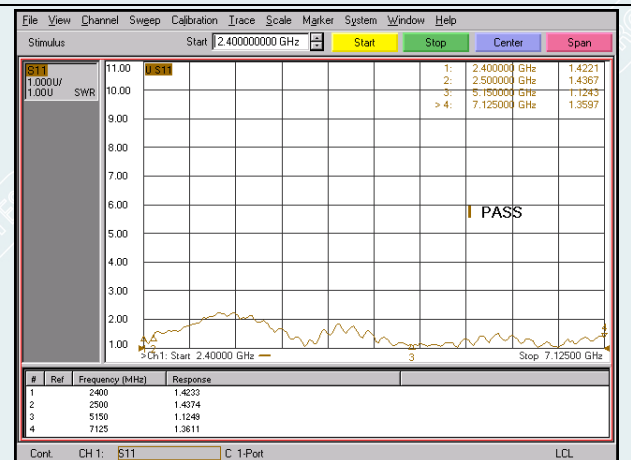


Fig.4-52 Function check after test 12# (WIFI-4)

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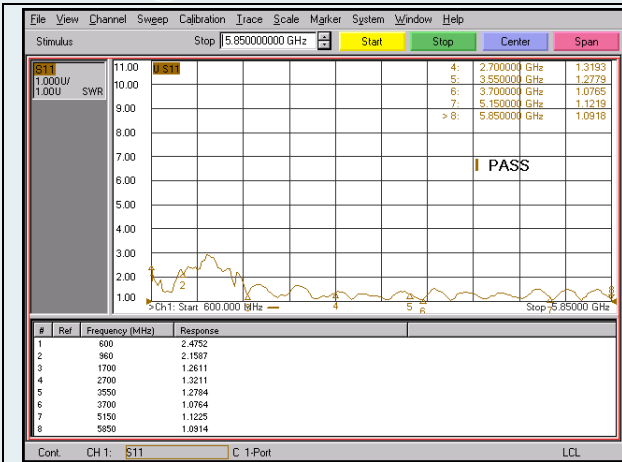


Fig.4-53 Function check before test 12# (CELL-1)

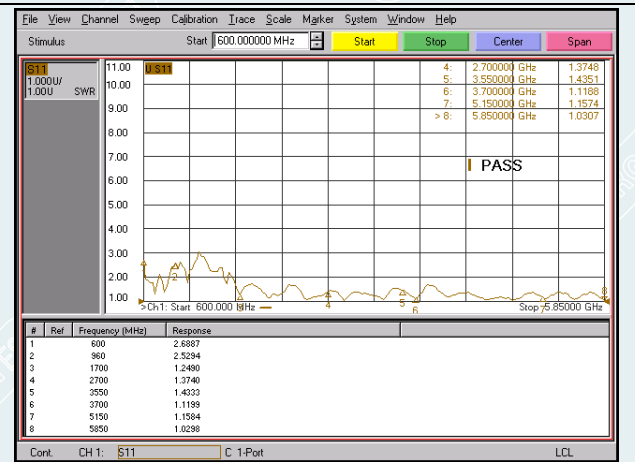


Fig.4-54 Function check after test 12# (CELL-1)

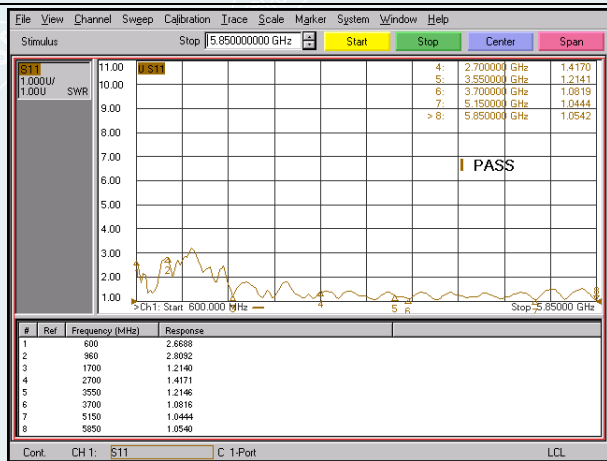


Fig.4-55 Function check before test 12# (CELL-2)

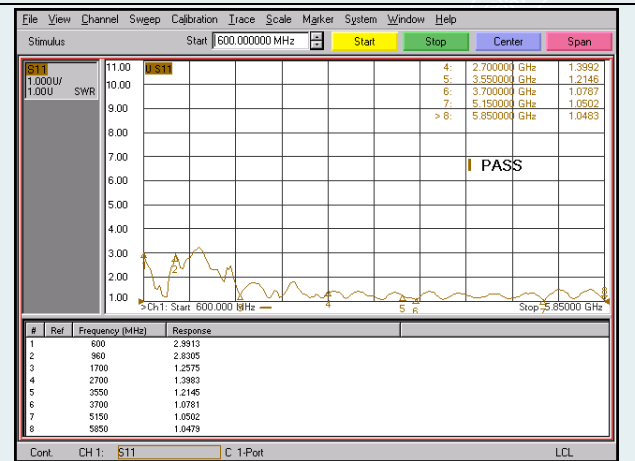


Fig.4-56 Function check after test 12# (CELL-2)

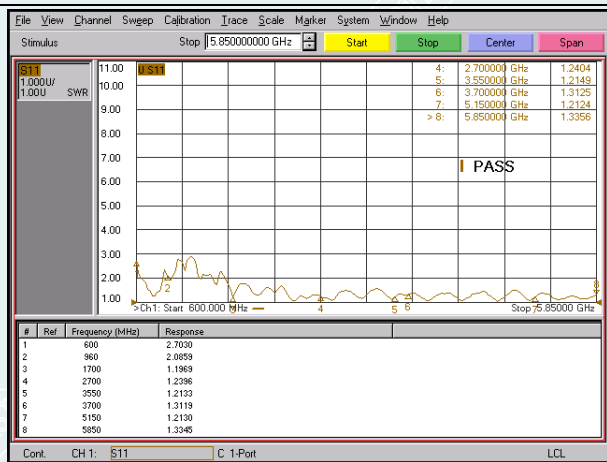


Fig.4-57 Function check before test 12# (CELL-3)

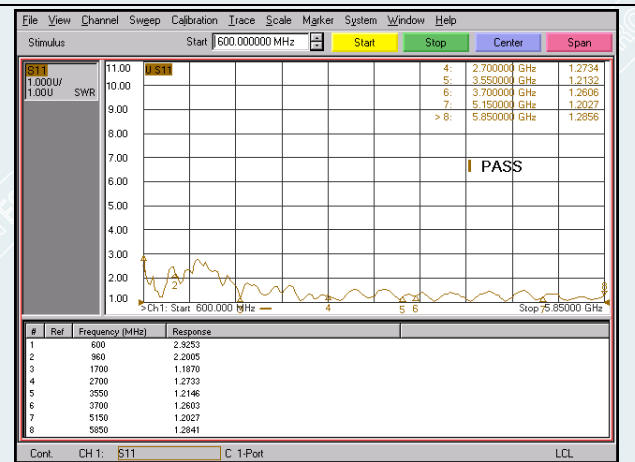


Fig.4-58 Function check after test 12# (CELL-3)

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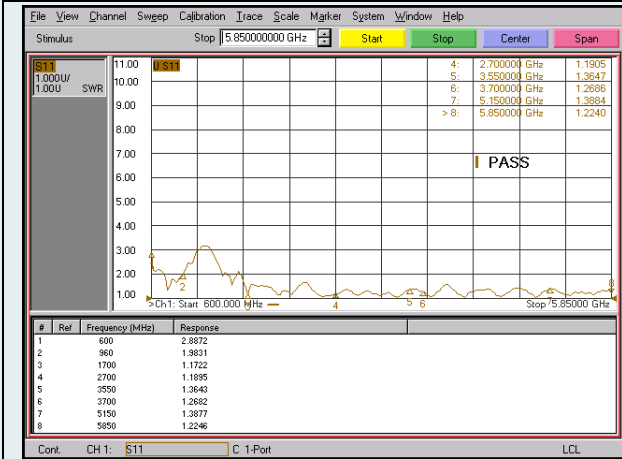


Fig.4-59 Function check before test 12# (CELL-4)

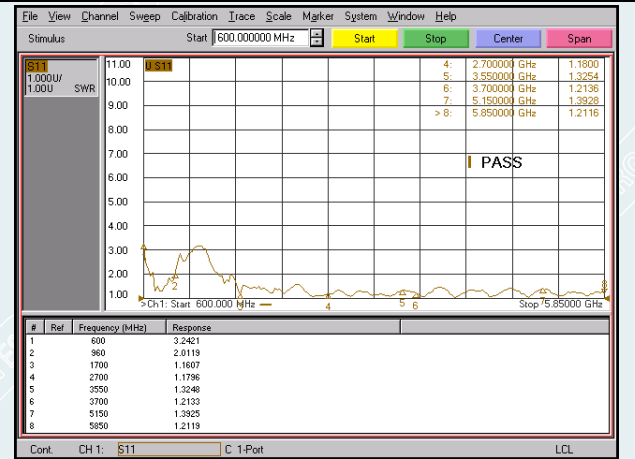


Fig.4-60 Function check after test 12# (CELL-4)

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5 Temperature Shock

5.1 Test condition

5.1.1 Test basis: IEC 60068-2-14:2009;

5.1.2 Test condition: The test condition is shown in Table 5-1.

Table 5-1 Test condition

Test temperature (°C)	Test duration	Transition time	Number of cycles
-40	1.5h	<10s	3 cycles
65	1.5h		

5.2 Sample information

Sample information is shown in Table 5-2.

Table 5-2 Sample information

Sample description	Model/Type	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	H202008078982-13#
		H202008078982-14#
		H202008078982-15#

5.3 Test requirements

5.3.1 Appearance requirements: After the test, the appearance of the sample should have no abnormal phenomena such as deformation, discoloration or damage;

5.3.2 Function inspection: Inspection by the client.

5.4 Test result

Test results are shown in Table 5-3.

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Table 5-3 Test results

Sample description	Test No.	Visual inspection	Function inspection	Conclusion
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	H202008078982-13#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-14#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-15#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements

Note: Functions are checked by the client.

5.5 Test photos



Fig.5-1 Before the test (13#~15#)



Fig.5-2 After the test (13#~15#)



Fig.5-3 Sample installation

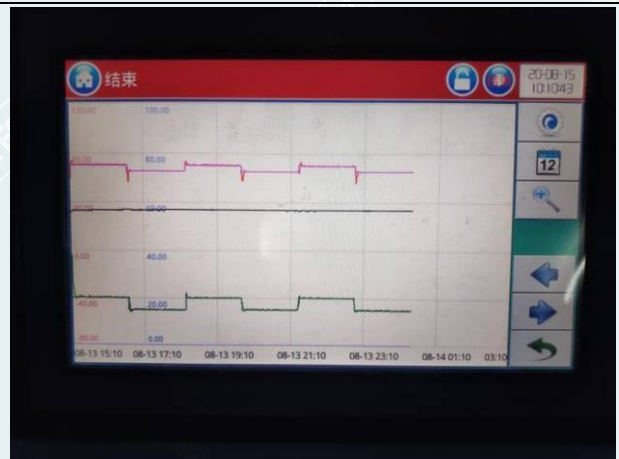


Fig.5-4 Temperature shock curve

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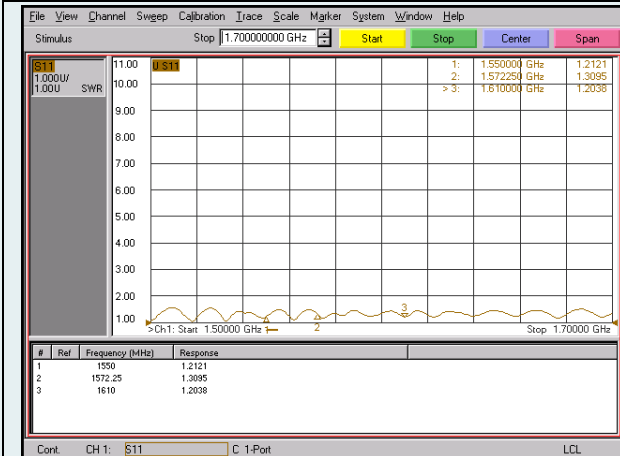


Fig.5-5 Function check before test 13# (GPS)

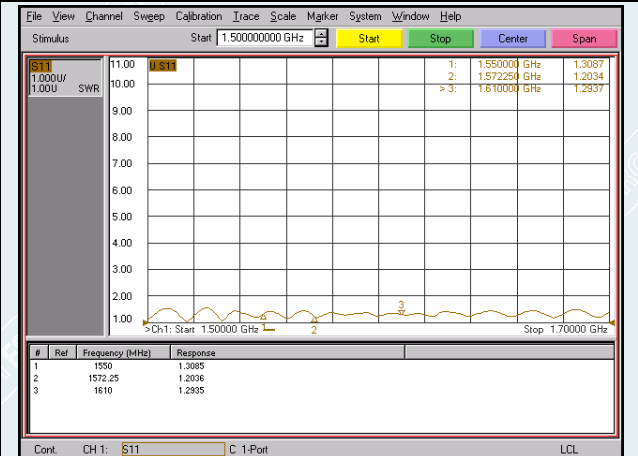


Fig.5-6 Function check after test 13# (GPS)

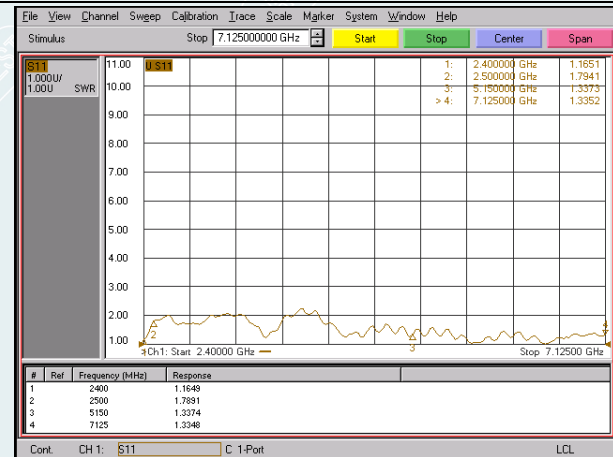


Fig.5-7 Function check before test 13# (WIFI-1)

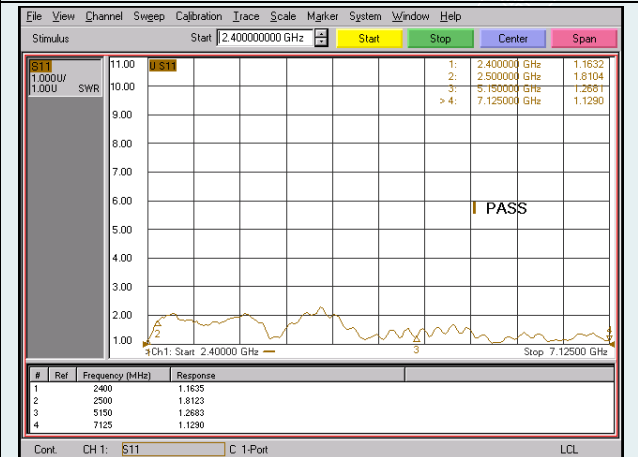


Fig.5-8 Function check after test 13# (WIFI-1)

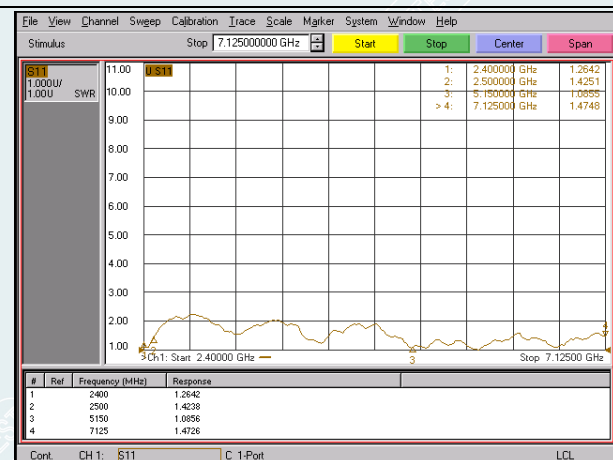


Fig.5-9 Function check before test 13# (WIFI-2)

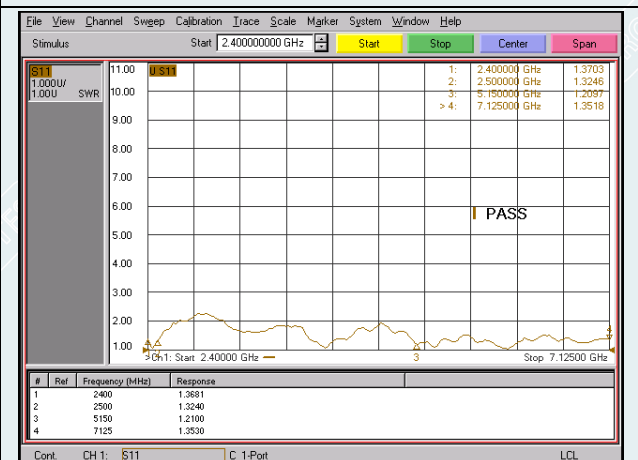


Fig.5-10 Function check after test 13# (WIFI-2)

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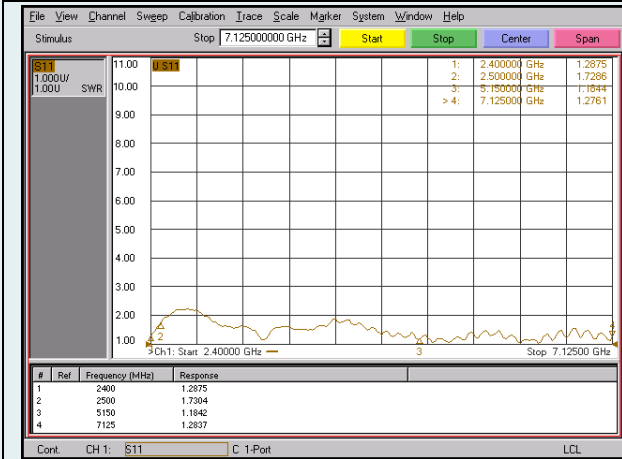


Fig.5-11 Function check before test 13# (WIFI-3)

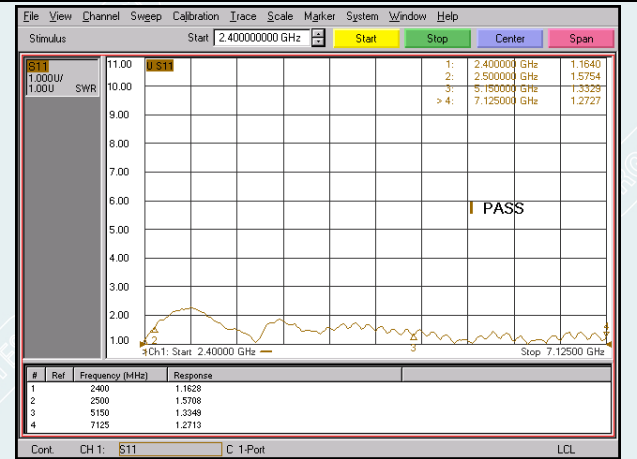


Fig.5-12 Function check after test 13# (WIFI-3)

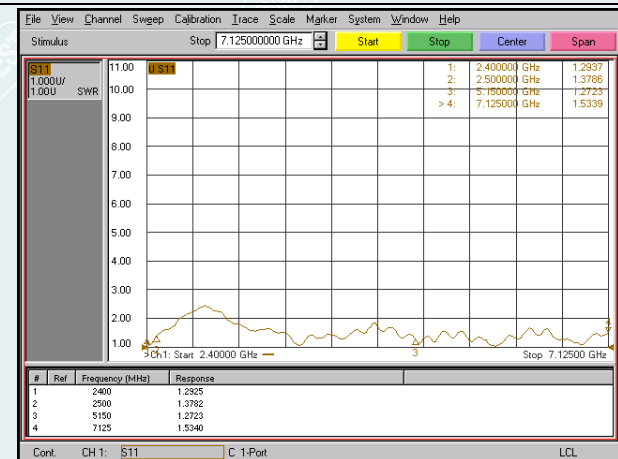


Fig.5-13 Function check before test 13# (WIFI-4)

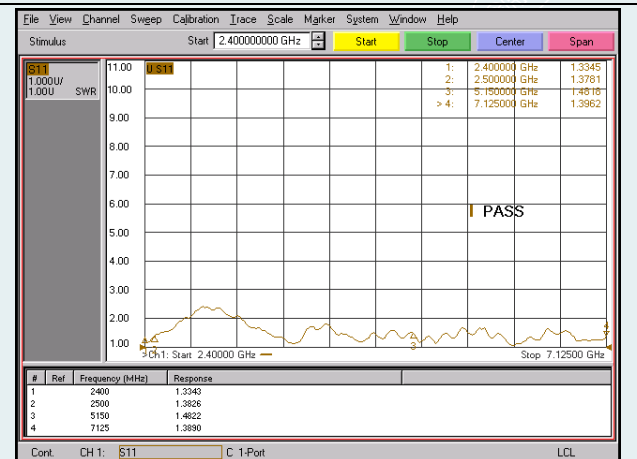


Fig.5-14 Function check after test 13# (WIFI-4)

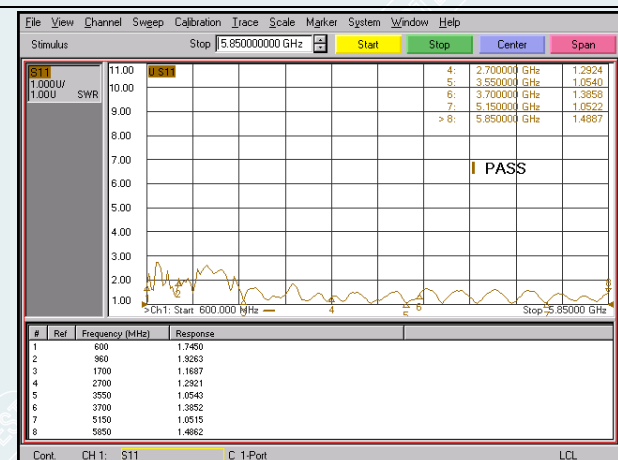


Fig.5-15 Function check before test 13# (CELL-1)

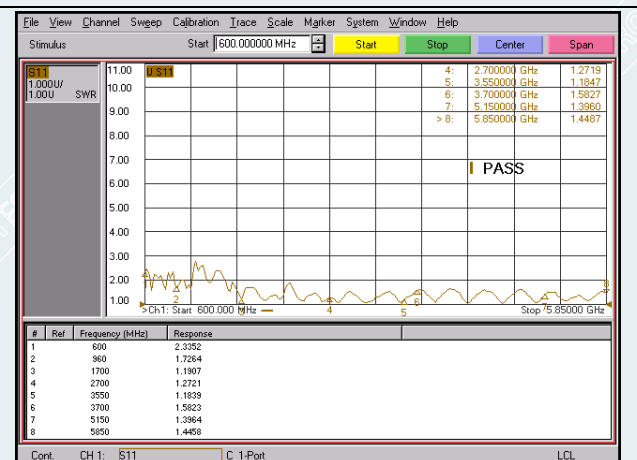


Fig.5-16 Function check after test 13# (CELL-1)

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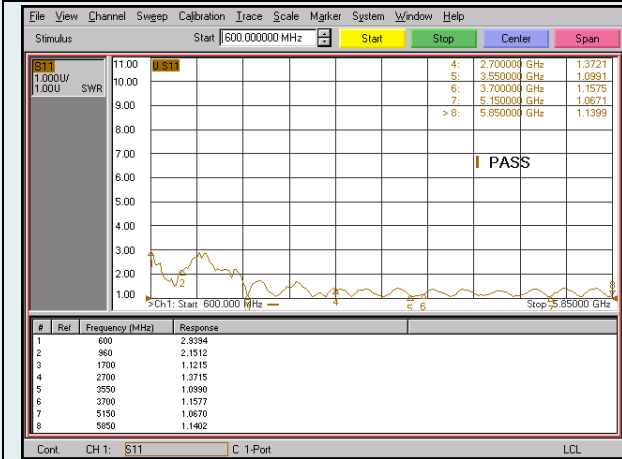


Fig.5-17 Function check before test 13# (CELL-2)

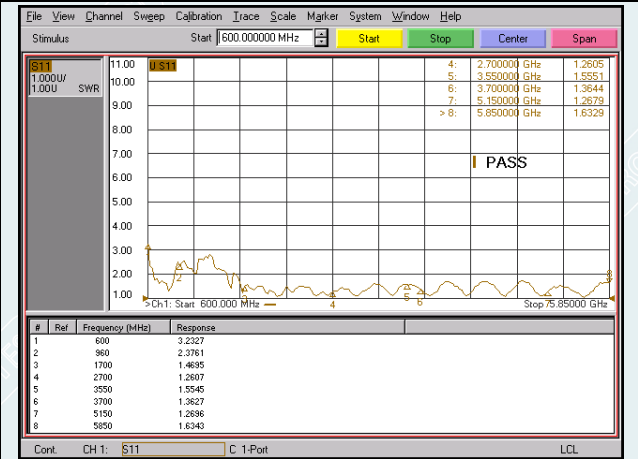


Fig.5-18 Function check after test 13# (CELL-2)

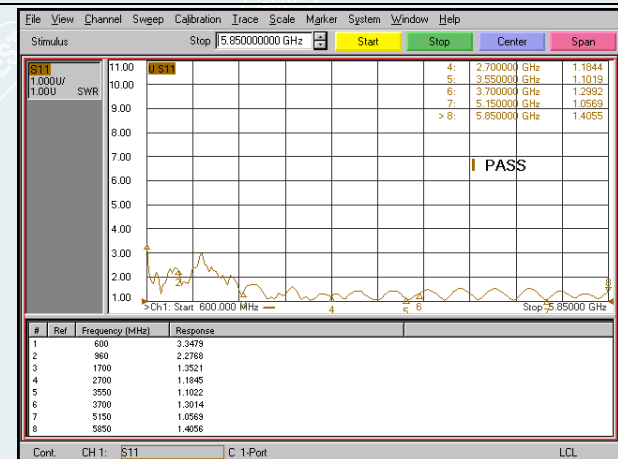


Fig.5-19 Function check before test 13# (CELL-3)

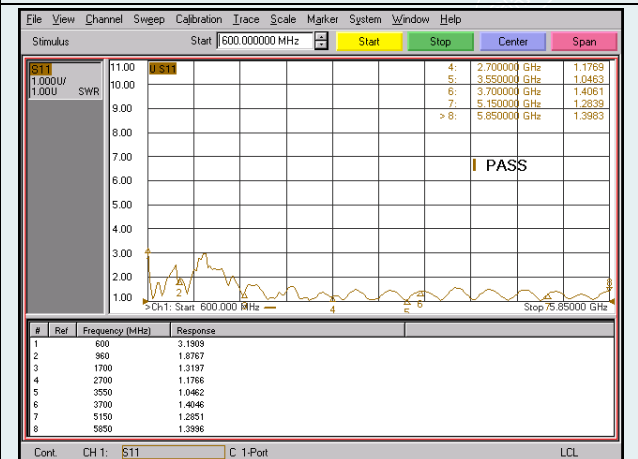


Fig.5-20 Function check after test 13# (CELL-3)

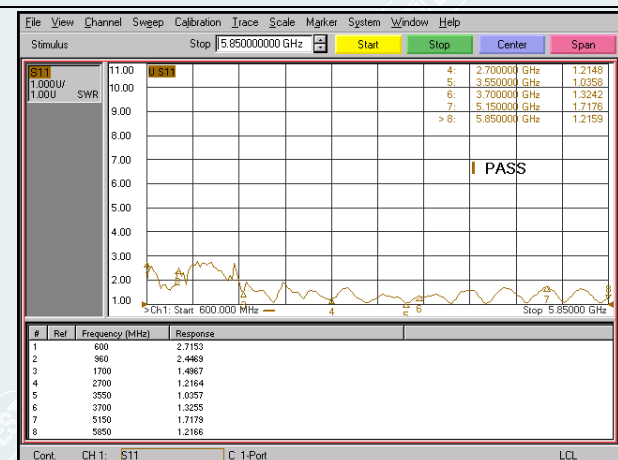


Fig.5-21 Function check before test 13# (CELL-4)

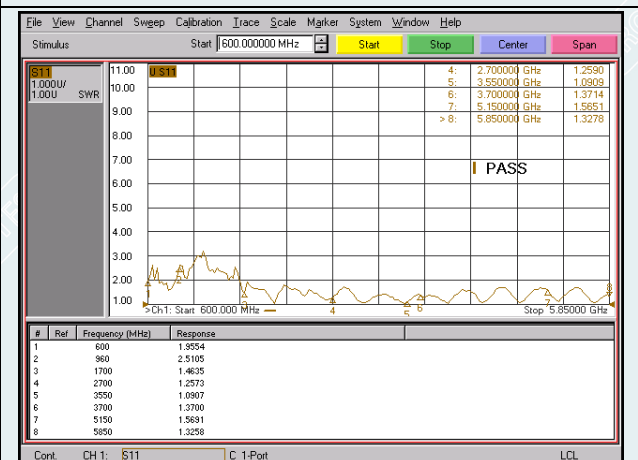


Fig.5-22 Function check after test 13# (CELL-4)

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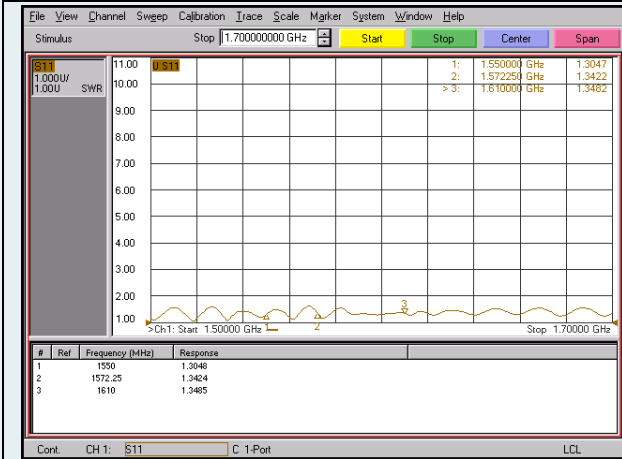


Fig.5-23 Function check before test 14# (GPS)

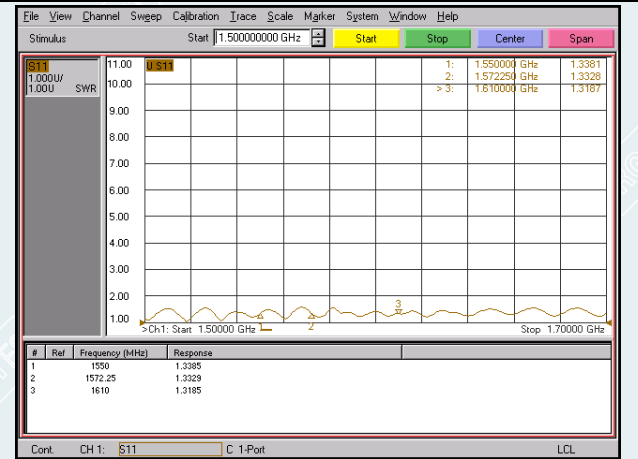


Fig.5-24 Function check after test 14# (GPS)

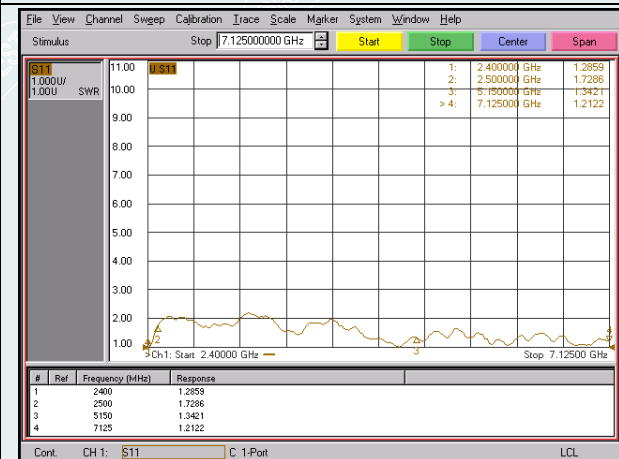


Fig.5-25 Function check before test 14# (WIFI-1)

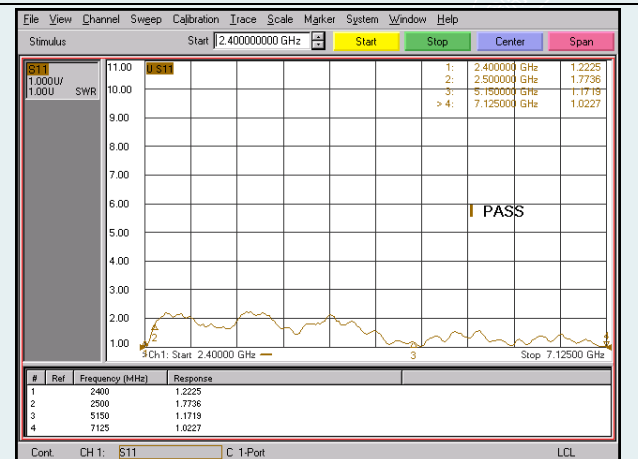


Fig.5-26 Function check after test 14# (WIFI-1)

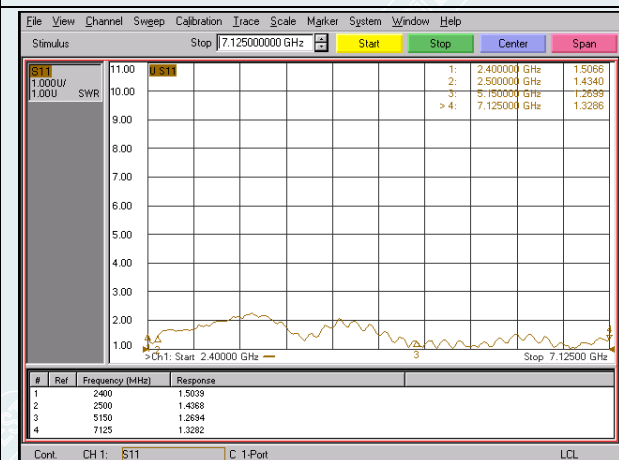


Fig.5-27 Function check before test 14# (WIFI-2)

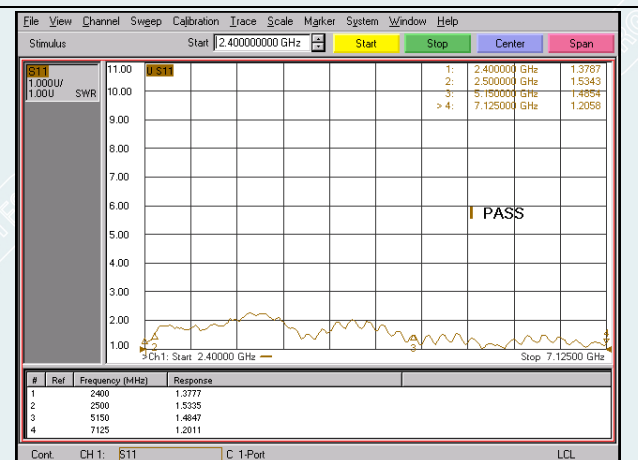


Fig.5-28 Function check after test 14# (WIFI-2)

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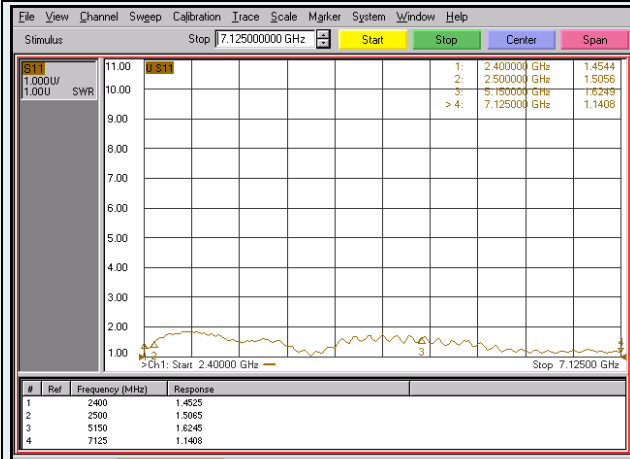


Fig.5-29 Function check before test 14# (WIFI-3)

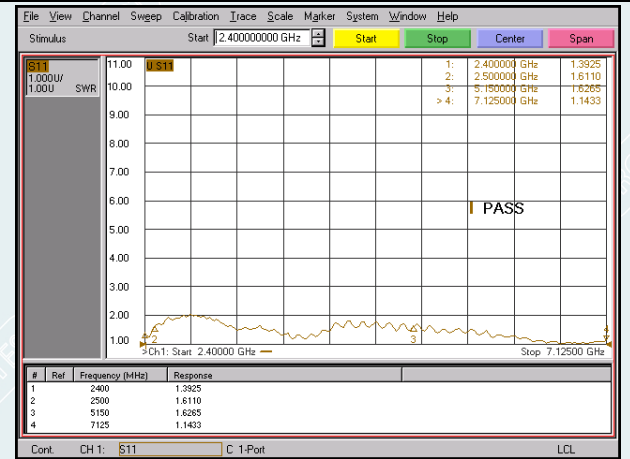


Fig.5-30 Function check after test 14# (WIFI-3)

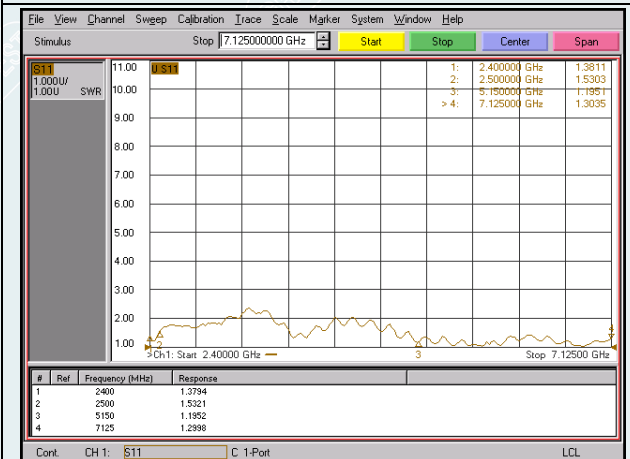


Fig.5-31 Function check before test 14# (WIFI-4)

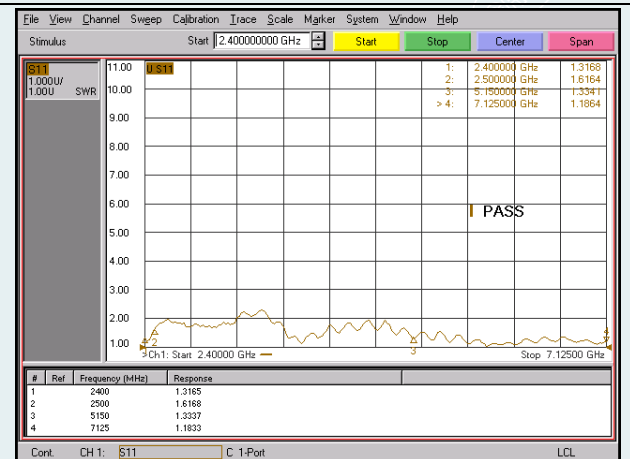


Fig.5-32 Function check after test 14# (WIFI-4)

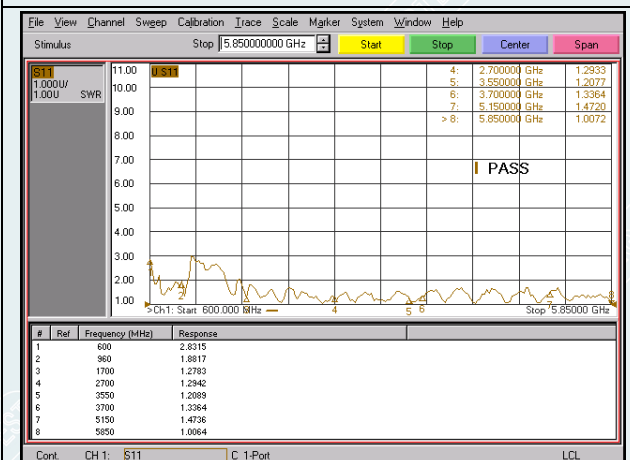


Fig.5-33 Function check before test 14# (CELL-1)

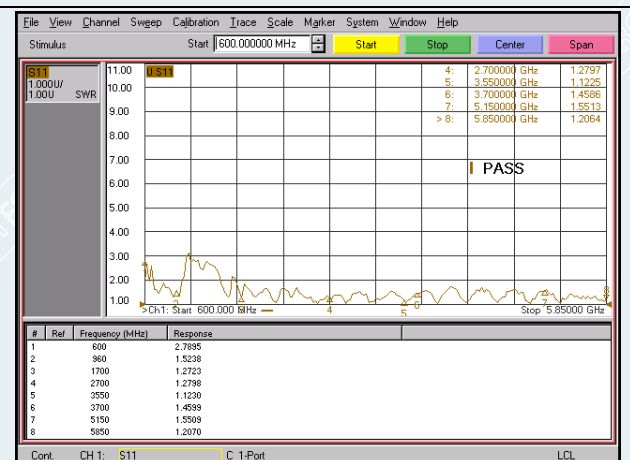


Fig.5-34 Function check after test 14# (CELL-1)

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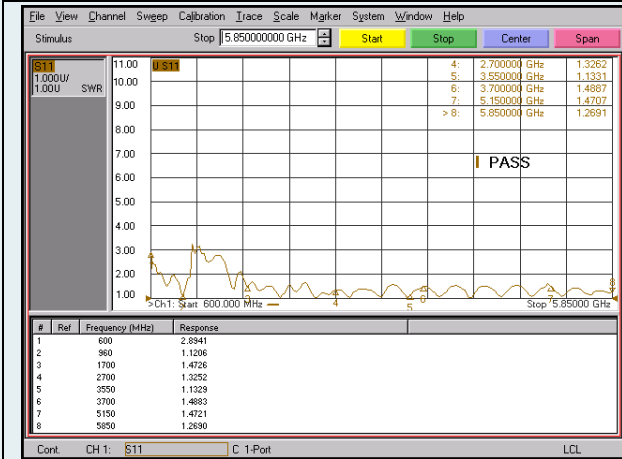


Fig.5-35 Function check before test 14# (CELL-2)

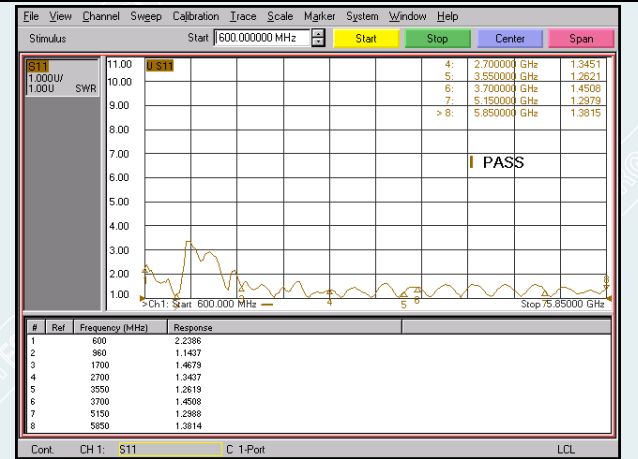


Fig.5-36 Function check after test 14# (CELL-2)

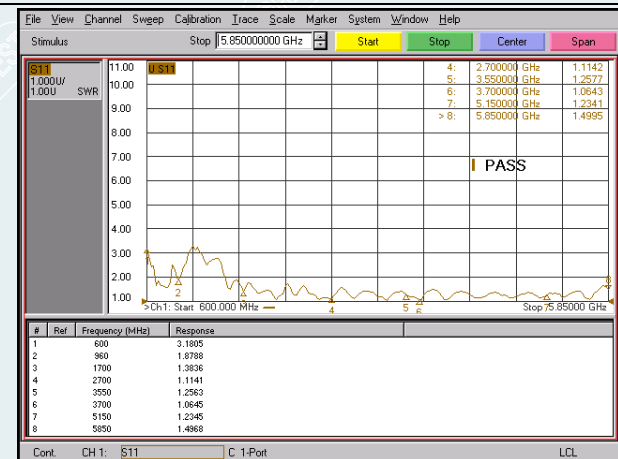


Fig.5-37 Function check before test 14# (CELL-3)

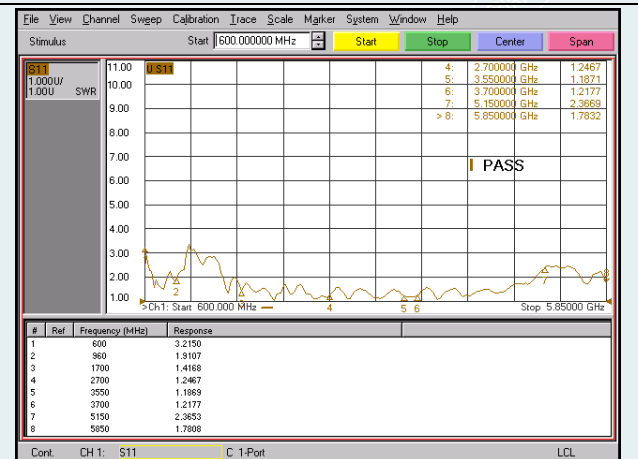


Fig.5-38 Function check after test 14# (CELL-3)

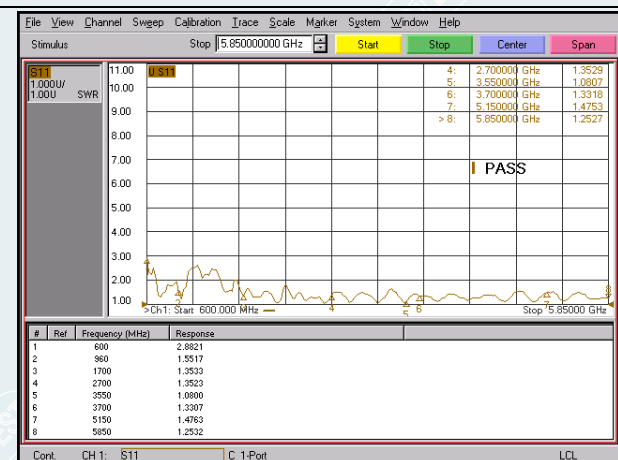


Fig.5-39 Function check before test 14# (CELL-4)

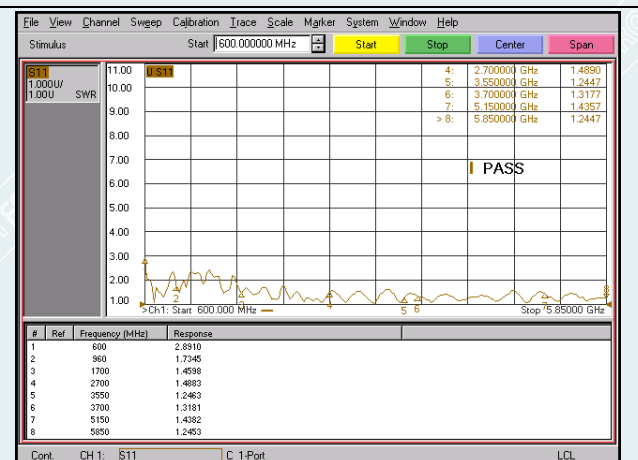


Fig.5-40 Function check after test 14# (CELL-4)

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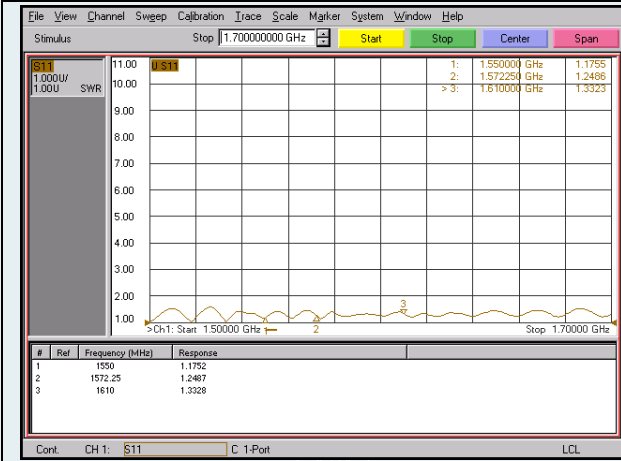


Fig.5-41 Function check before test 15# (GPS)

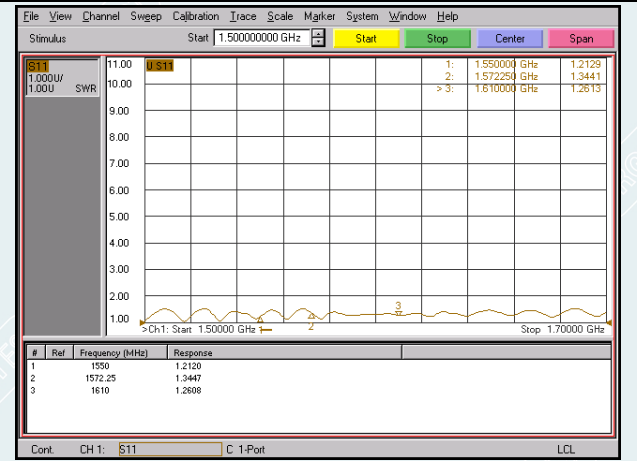


Fig.5-42 Function check after test 15# (GPS)

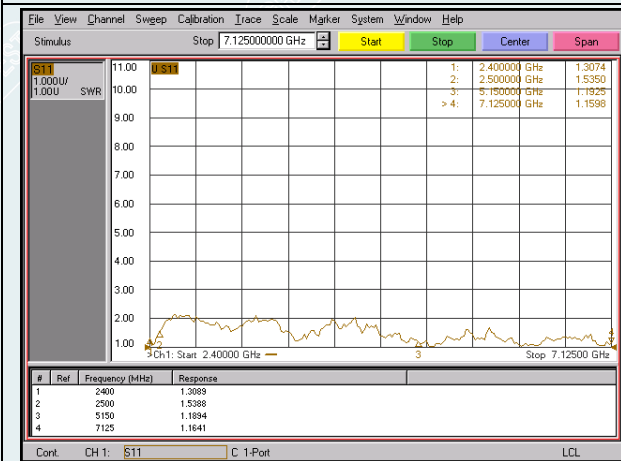


Fig.5-43 Function check before test 15# (WIFI-1)

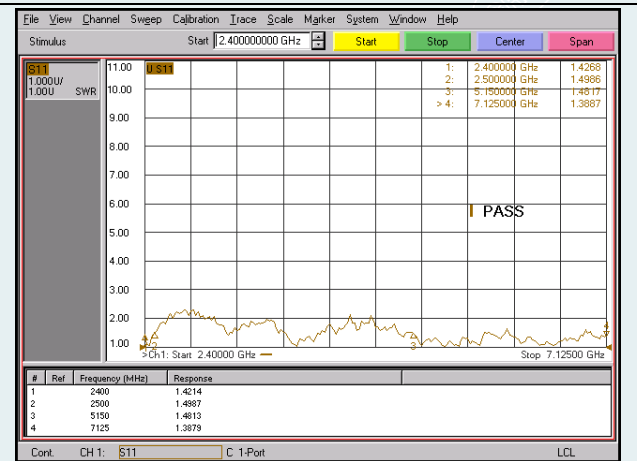


Fig.5-44 Function check after test 15# (WIFI-1)

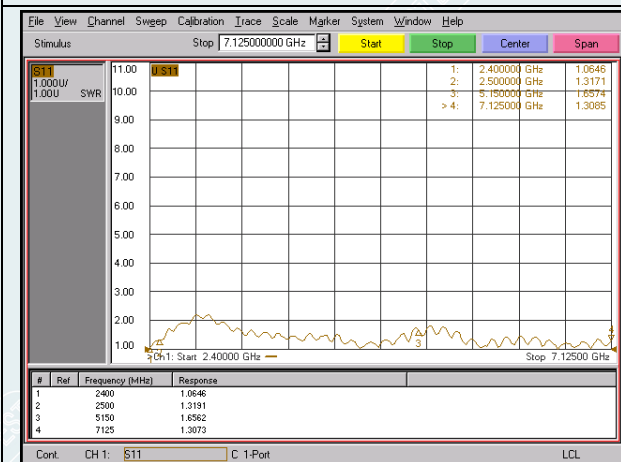


Fig.5-45 Function check before test 15# (WIFI-2)

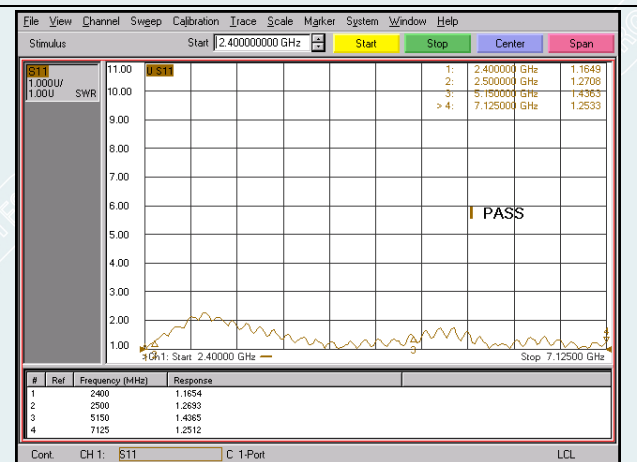


Fig.5-46 Function check after test 15# (WIFI-2)

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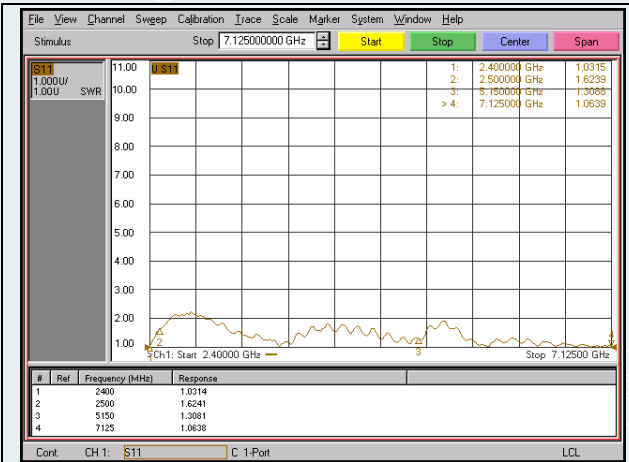


Fig.5-47 Function check before test 15# (WIFI-3)

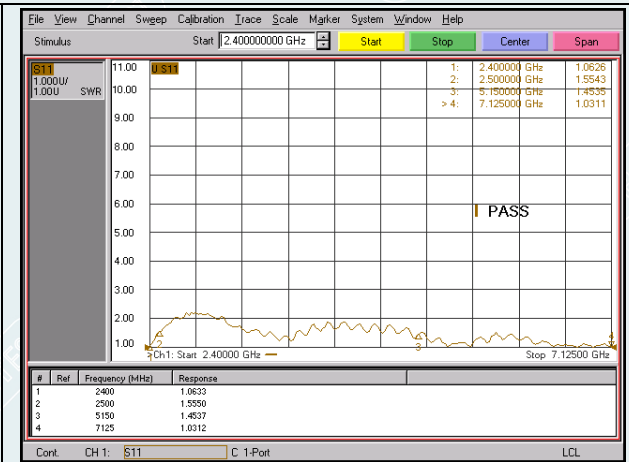


Fig.5-48 Function check after test 15# (WIFI-3)



Fig.5-49 Function check before test 15# (WIFI-4)

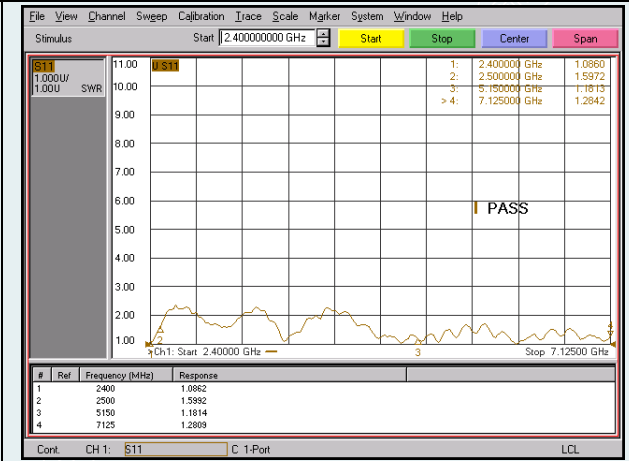


Fig.5-50 Function check after test 15# (WIFI-4)

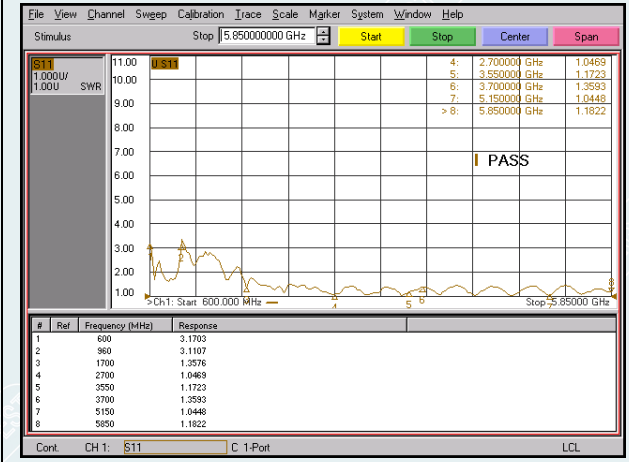


Fig.5-51 Function check before test 15# (CELL-1)

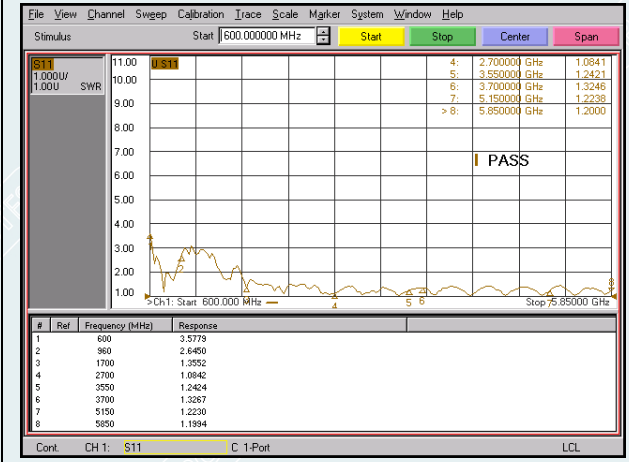


Fig.5-52 Function check after test 15# (CELL-1)

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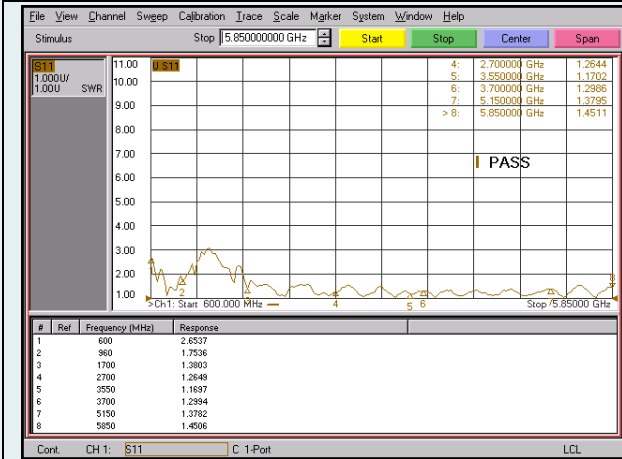


Fig.5-53 Function check before test 15# (CELL-2)

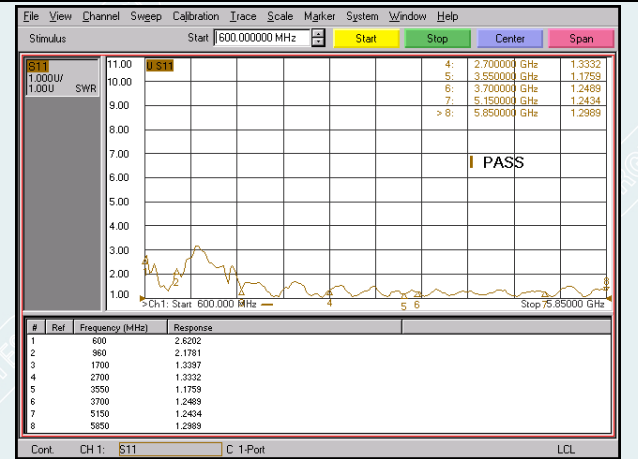


Fig.5-54 Function check after test 15# (CELL-2)

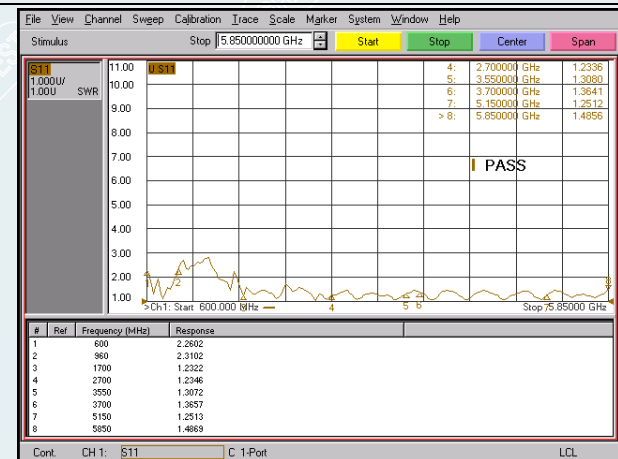


Fig.5-55 Function check before test 15# (CELL-3)

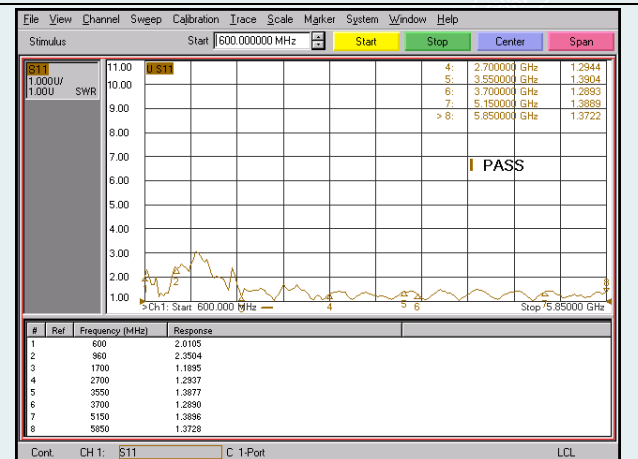


Fig.5-56 Function check after test 15# (CELL-3)

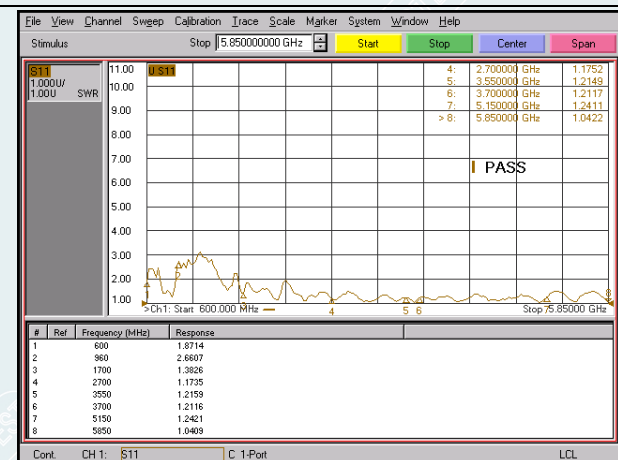


Fig.5-57 Function check before test 15# (CELL-4)

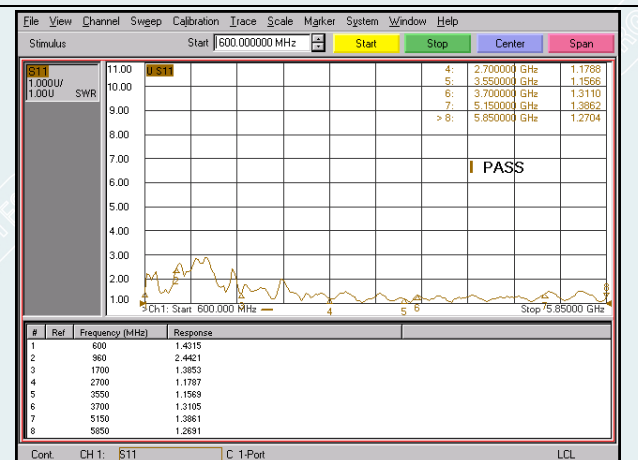


Fig.5-58 Function check after test 15# (CELL-4)

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6 IP6X

6.1 Test condition

6.1.1 Test basis: IEC 60529:2013;

6.1.2 Probe test: Samples were metal proofed using a 1.0 mm diameter and 100mm length metal probe;

6.1.3 IP6X test:

6.1.3.1 Test dust: Talc;

6.1.3.2 Test time: 8h continuous dust blowing;

6.1.3.3 Dust concentration: 2kg/m³;

6.1.3.4 Note: During the test, the sample to be tested is placed in the test box, the pressure in the shell is kept below atmospheric pressure with a vacuum pump, the maximum pressure difference is 2kPa, the pumping speed is lower than 40 times the volume of the shell per hour, and the pumping is continuous for 8 hours.

6.2 Sample information

Sample information is shown in Table 6-1.

Table 6-1 Sample information

Sample description	Model/Type	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	H202008078982-16#
		H202008078982-17#
		H202008078982-18#

6.3 Test requirements

6.3.1 Judgment basis: IEC 60529:2013;

6.3.2 Probe test requirements: A 1.00mm diameter and 100mm length probe should not pass

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through the opening;

6.3.3 Appearance requirements: After the test, no deposit of dust should be observable inside the enclosure.

6.4 Test result

The test results are shown in Table 6-2.

Table 6-2 Test result

Sample description	Test No.	Visual inspection	Conclusion
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax	H202008078982-16#	A 1.00mm diameter and 100mm length probe couldn't pass through the opening. After the test, there was no deposit of dust inside the sample.	Meet the requirements
	H202008078982-17#	A 1.00mm diameter and 100mm length probe couldn't pass through the opening. After the test, there was no deposit of dust inside the sample.	Meet the requirements
	H202008078982-18#	A 1.00mm diameter and 100mm length probe couldn't pass through the opening. After the test, there was no deposit of dust inside the sample.	Meet the requirements

6.5 Test photos



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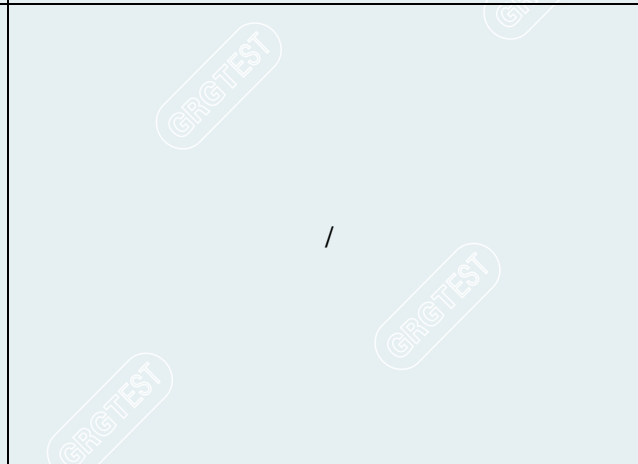
Fig.6-3 Probe test



Fig.6-4 IP6X test



Fig.6-5 Post-test inspection



/

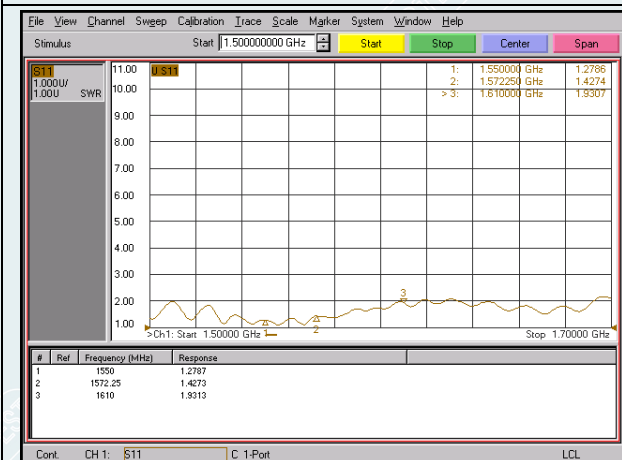


Fig.6-6 Function check before test 16# (GPS)

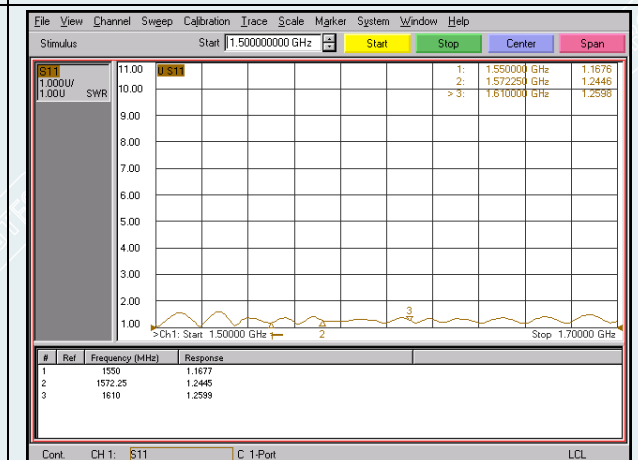


Fig.6-7 Function check after test 16# (GPS)

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Fig.6-8 Function check before test 16# (WIFI-1)

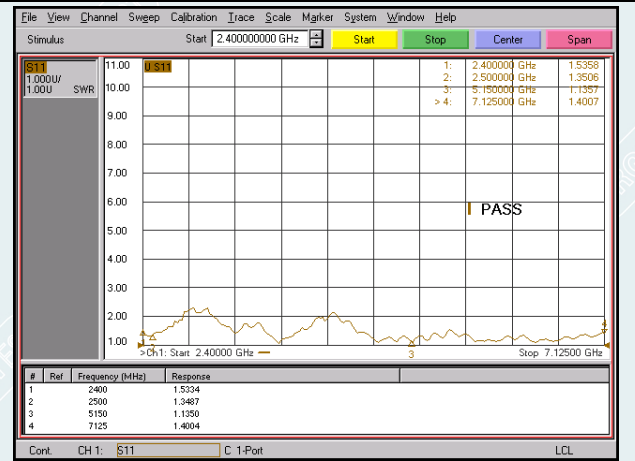


Fig.6-9 Function check after test 16# (WIFI-1)

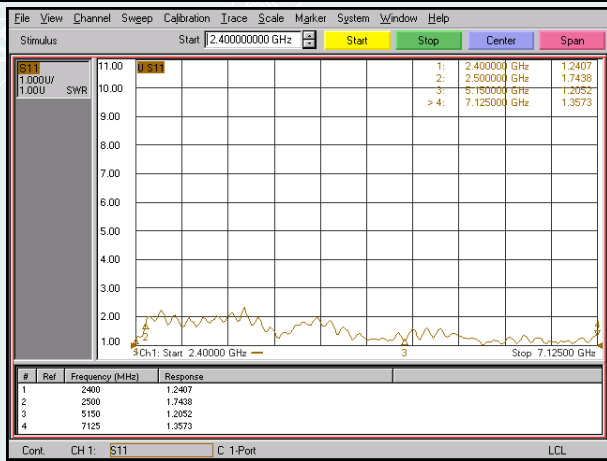


Fig.6-10 Function check before test 16# (WIFI-2)

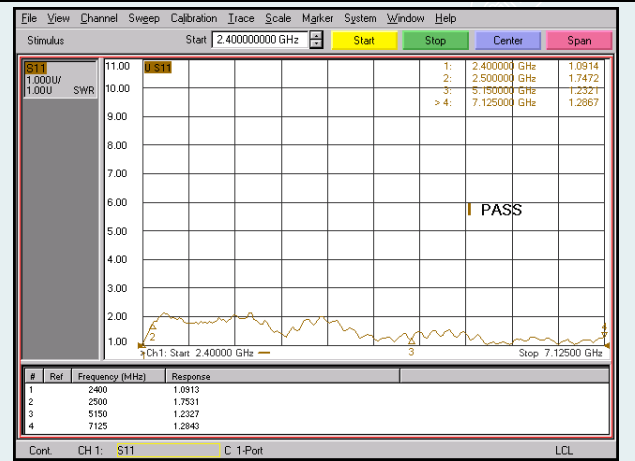


Fig.6-11 Function check after test 16# (WIFI-2)

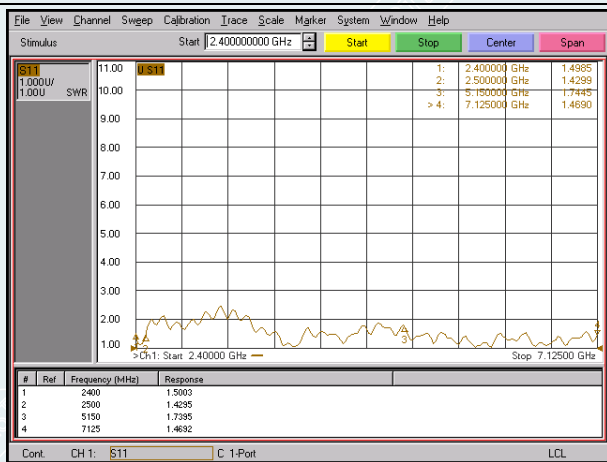


Fig.6-12 Function check before test 16# (WIFI-3)

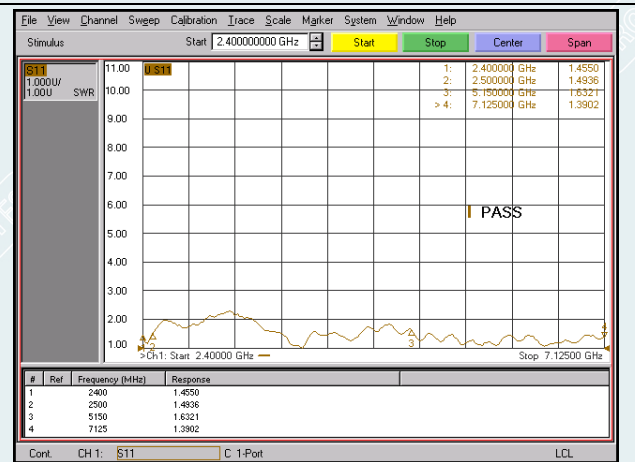


Fig.6-13 Function check after test 16# (WIFI-3)

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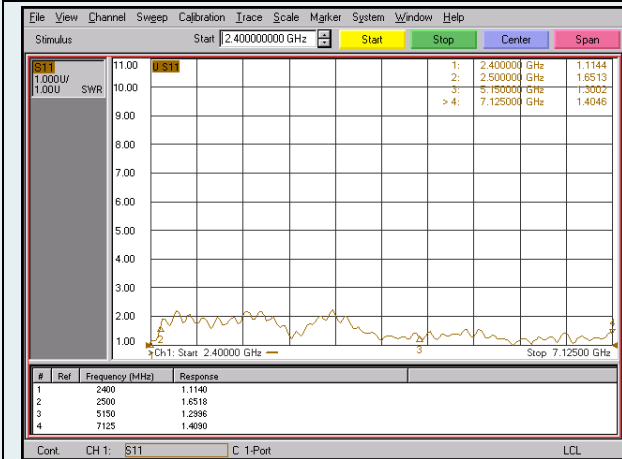


Fig.6-14 Function check before test 16# (WIFI-4)

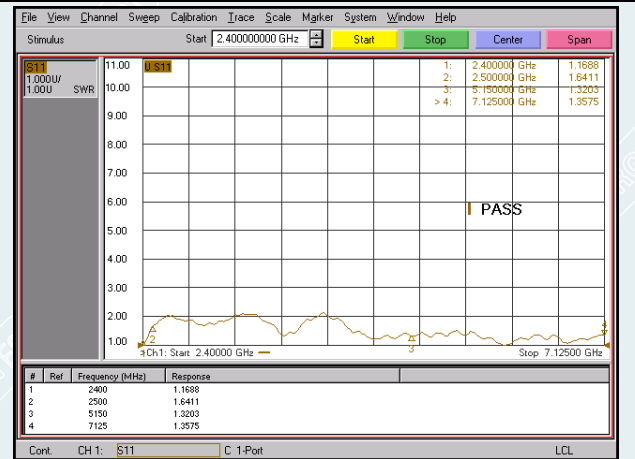


Fig.6-15 Function check after test 16# (WIFI-4)

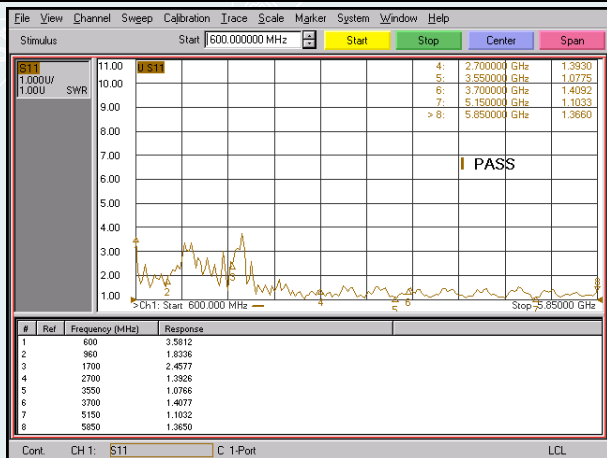


Fig.6-16 Function check before test 16# (CELL-1)

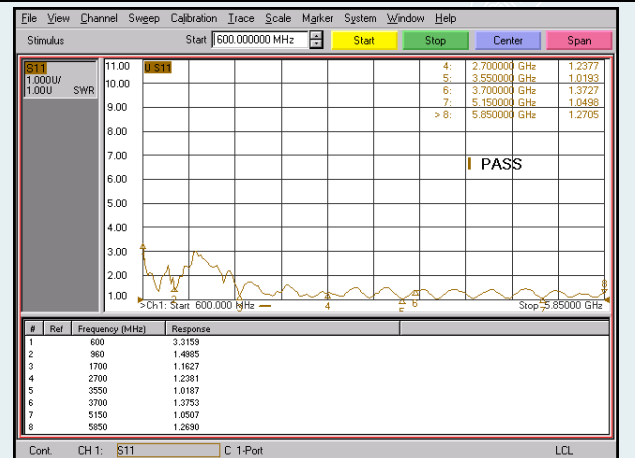


Fig.6-17 Function check after test 16# (CELL-1)

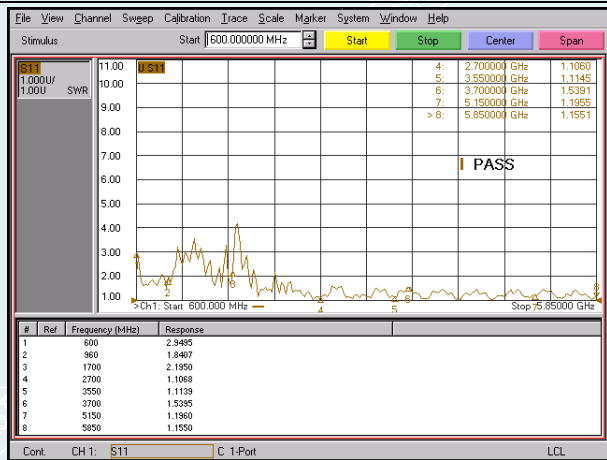


Fig.6-18 Function check before test 16# (CELL-2)

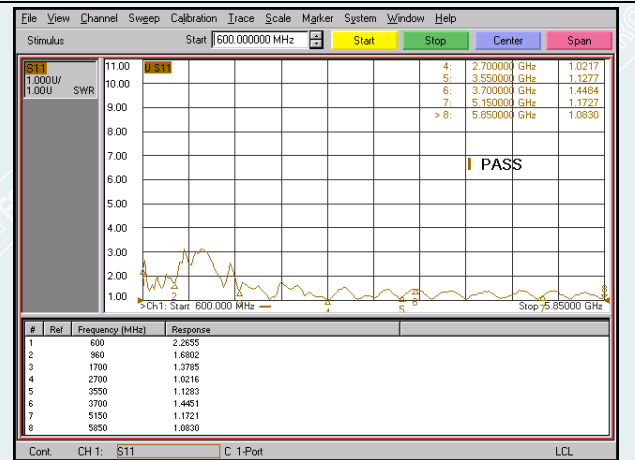


Fig.6-19 Function check after test 16# (CELL-2)

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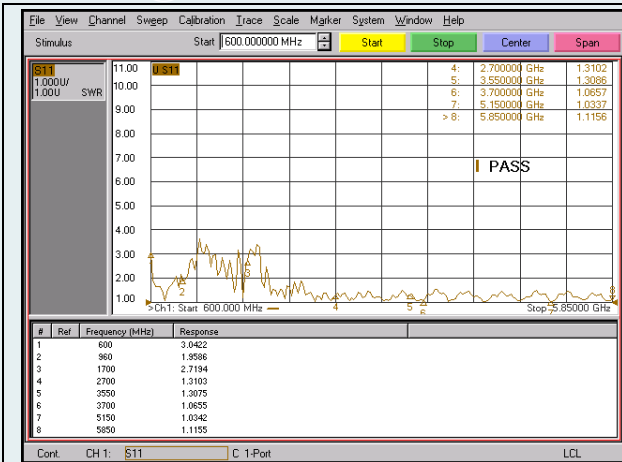


Fig.6-20 Function check before test 16# (CELL-3)

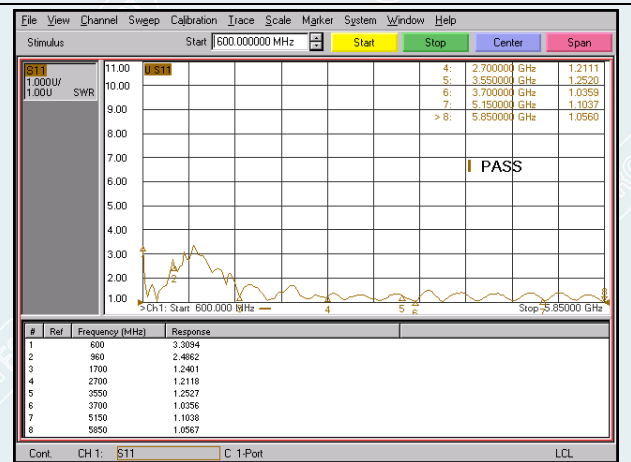


Fig.6-21 Function check after test 16# (CELL-3)

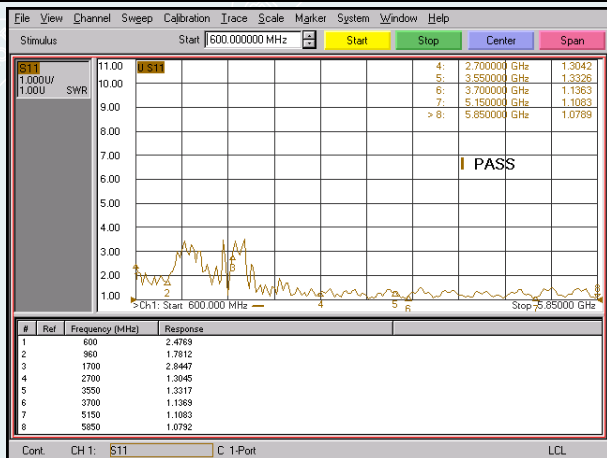


Fig.6-22 Function check before test 16# (CELL-4)

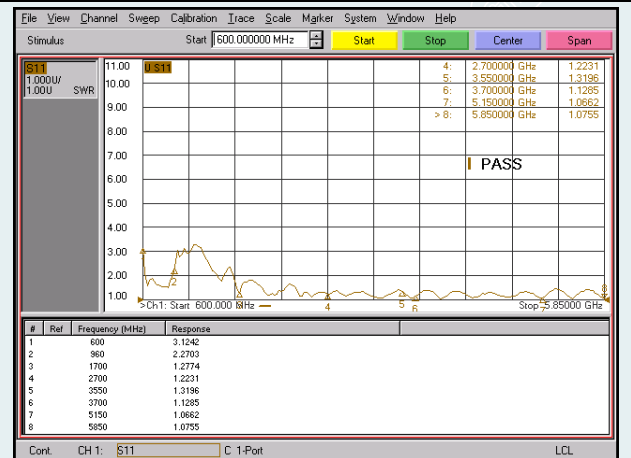


Fig.6-23 Function check after test 16# (CELL-4)

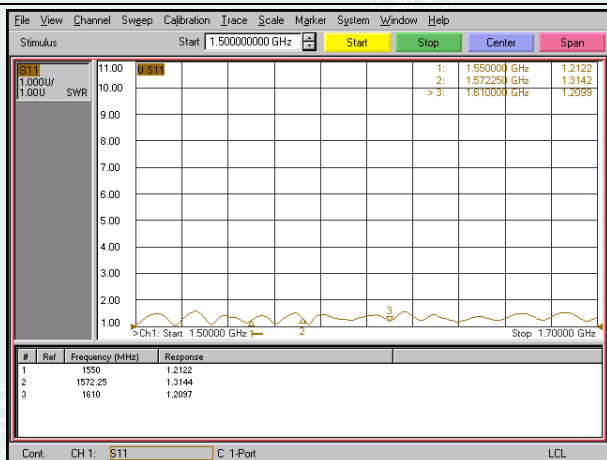


Fig.6-24 Function check before test 17# (GPS)

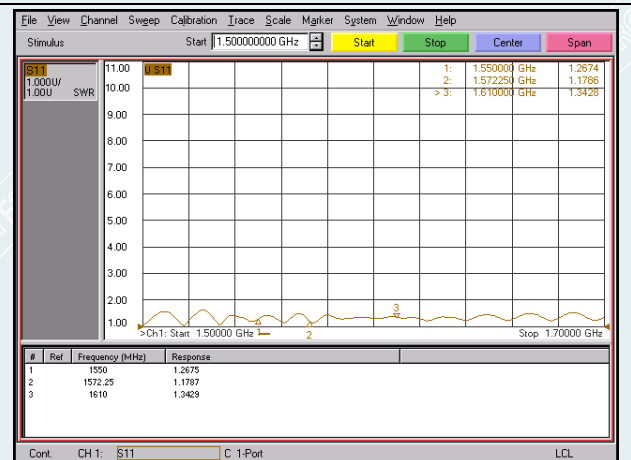


Fig.6-25 Function check after test 17# (GPS)

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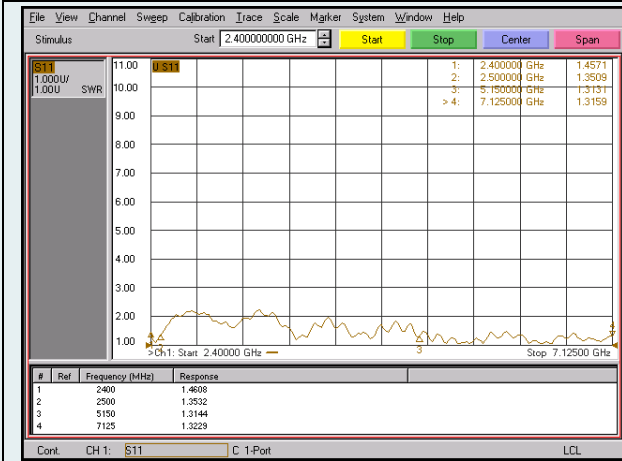


Fig.6-26 Function check before test 17# (WIFI-1)

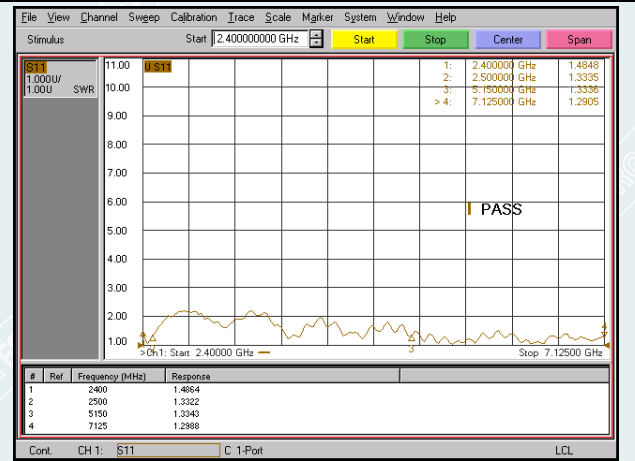


Fig.6-27 Function check after test 17# (WIFI-1)

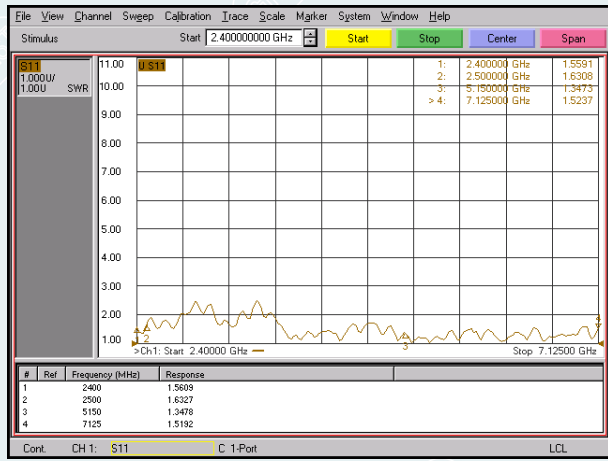


Fig.6-28 Function check before test 17# (WIFI-2)

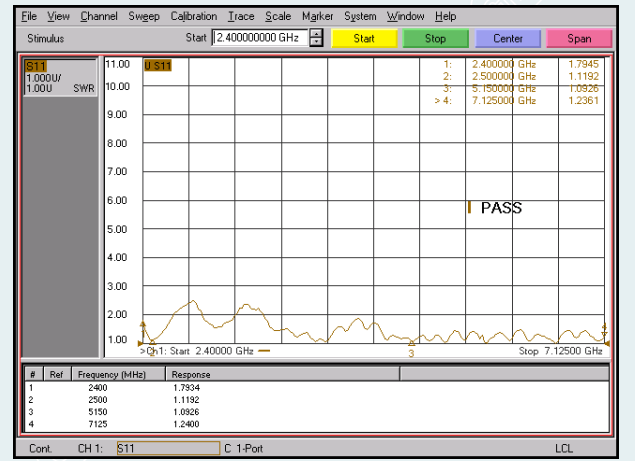


Fig.6-29 Function check after test 17# (WIFI-2)

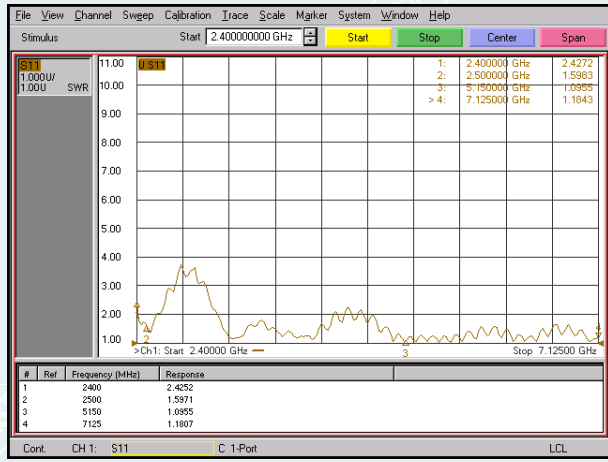


Fig.6-30 Function check before test 17# (WIFI-3)

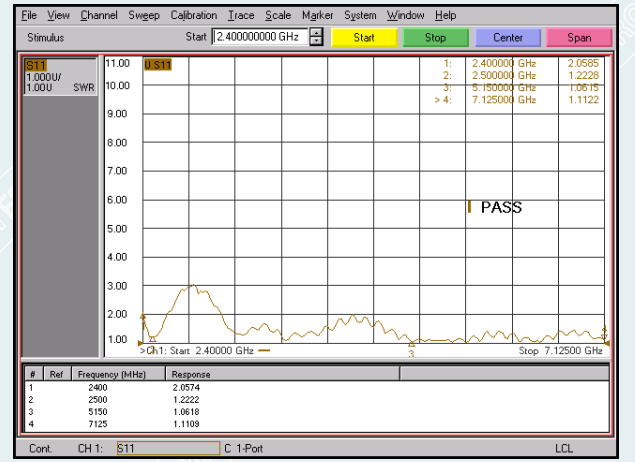


Fig.6-31 Function check after test 17# (WIFI-3)

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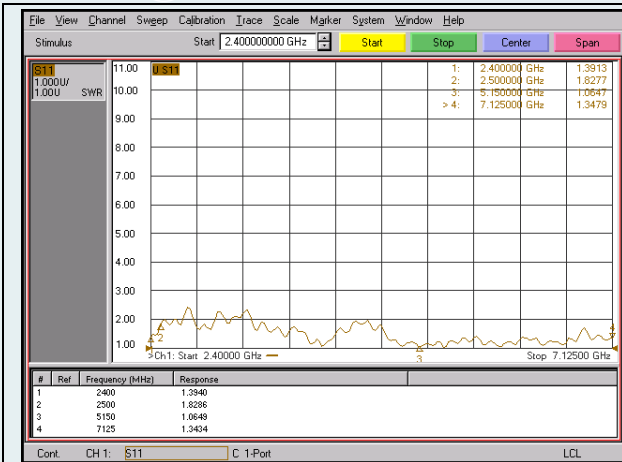


Fig.6-32 Function check before test 17# (WIFI-4)

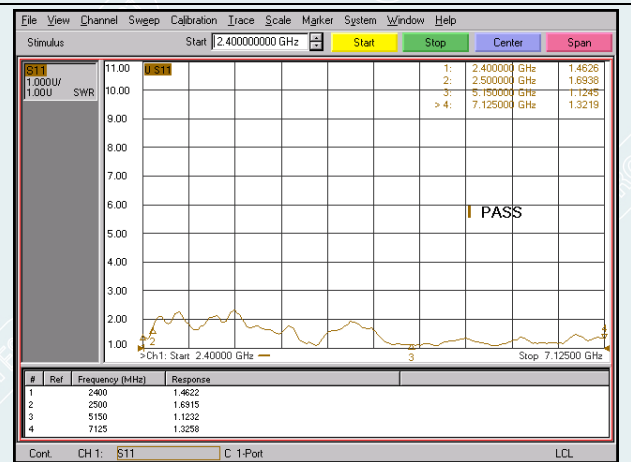


Fig.6-33 Function check after test 17# (WIFI-4)

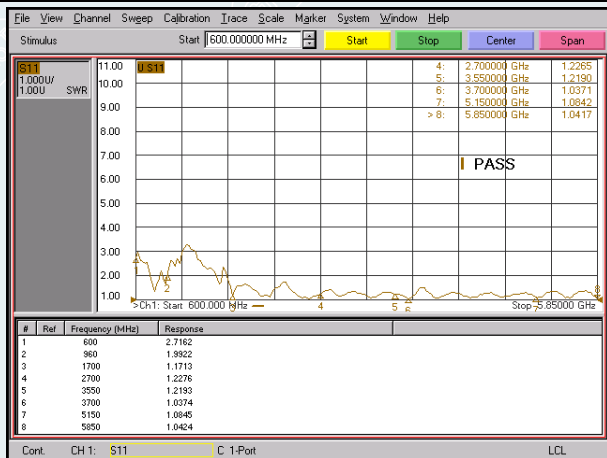


Fig.6-34 Function check before test 17# (CELL-1)

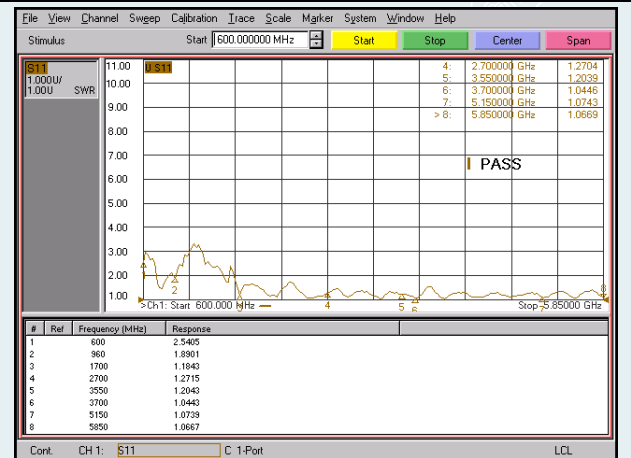


Fig.6-35 Function check after test 17# (CELL-1)

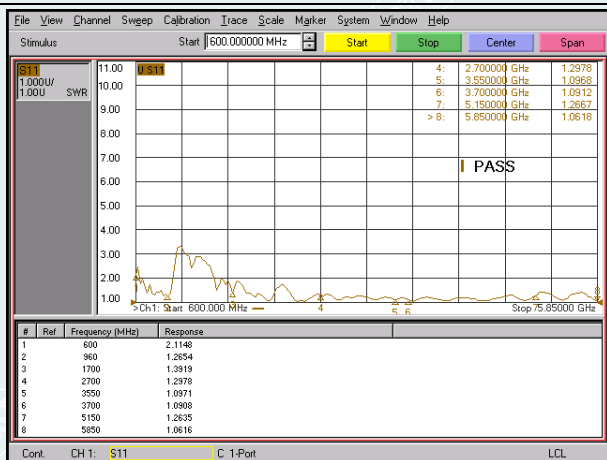


Fig.6-36 Function check before test 17# (CELL-2)

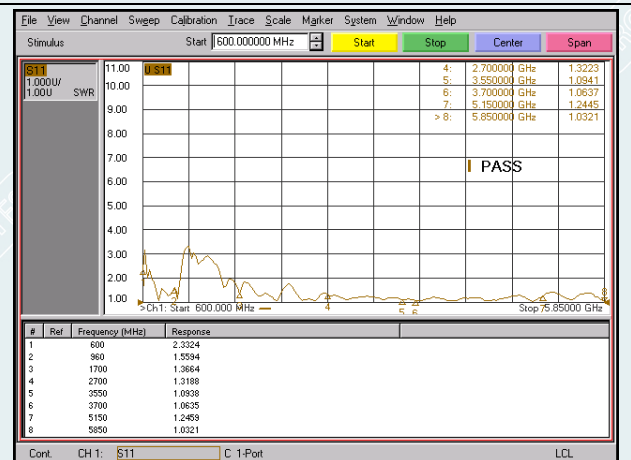


Fig.6-37 Function check after test 17# (CELL-2)

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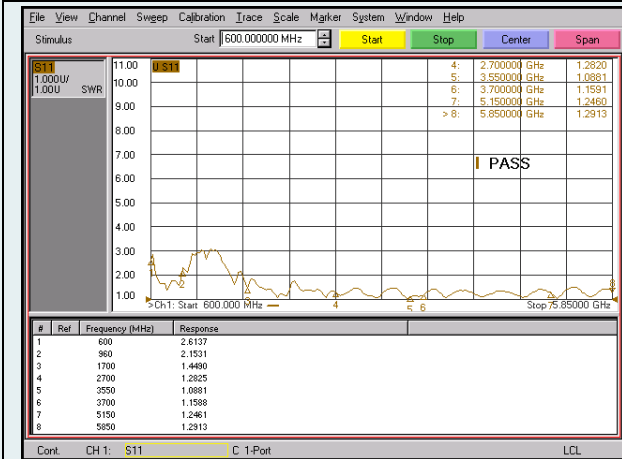


Fig.6-38 Function check before test 17# (CELL-3)

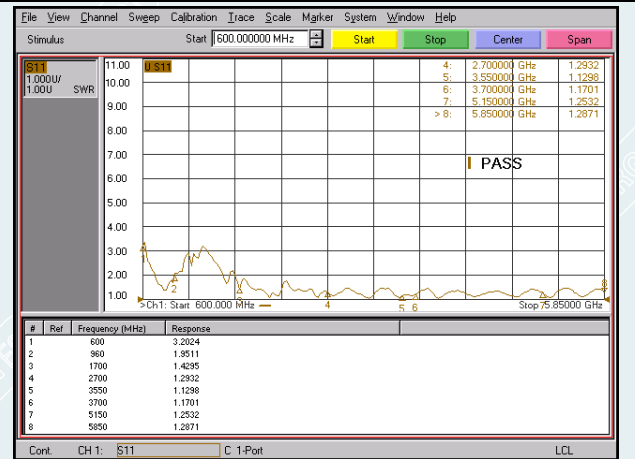


Fig.6-39 Function check after test 17# (CELL-3)

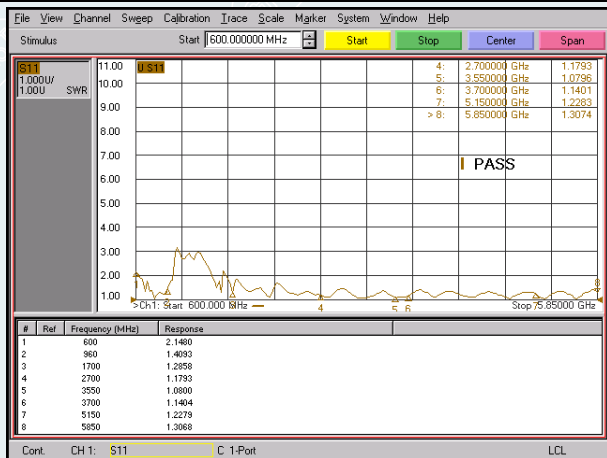


Fig.6-40 Function check before test 17# (CELL-4)

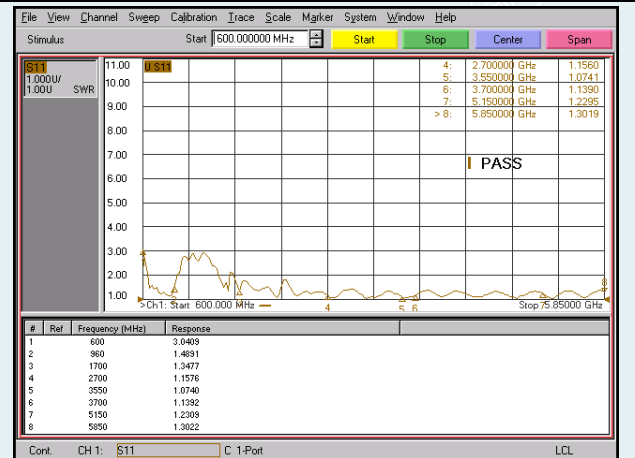


Fig.6-41 Function check after test 17# (CELL-4)

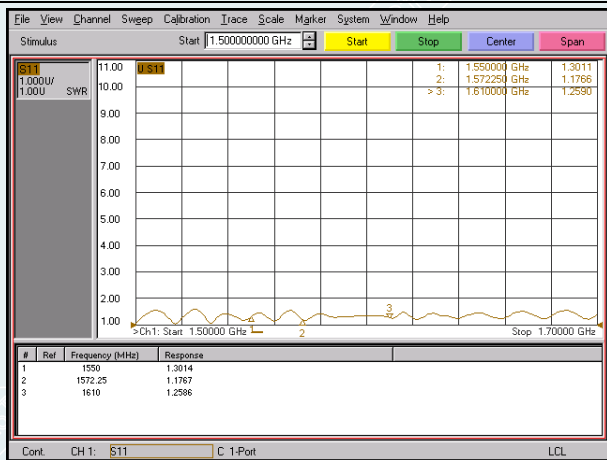


Fig.6-42 Function check before test 18# (GPS)



Fig.6-43 Function check after test 18# (GPS)

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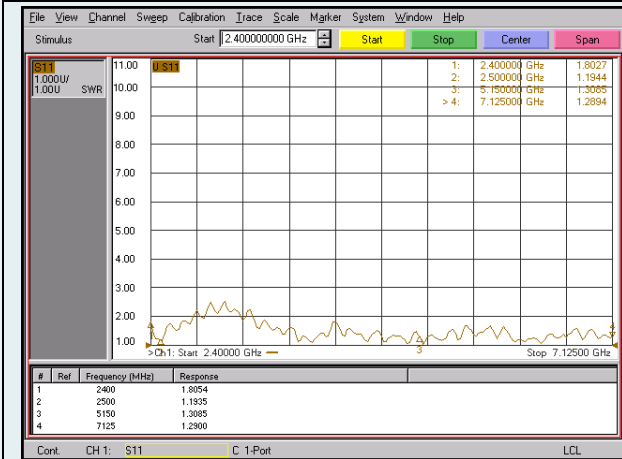


Fig.6-44 Function check before test 18# (WIFI-1)

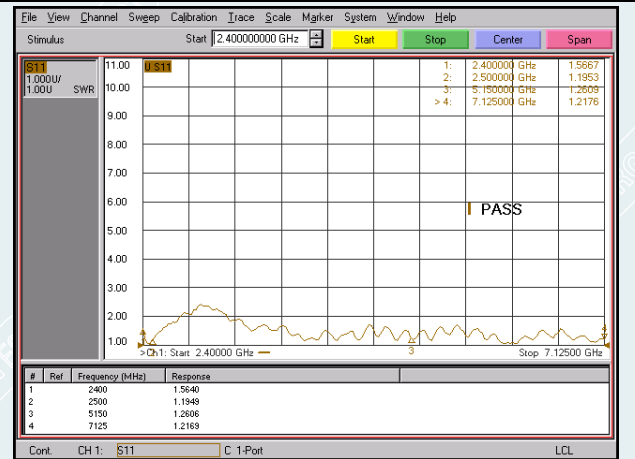


Fig.6-45 Function check after test 18# (WIFI-1)

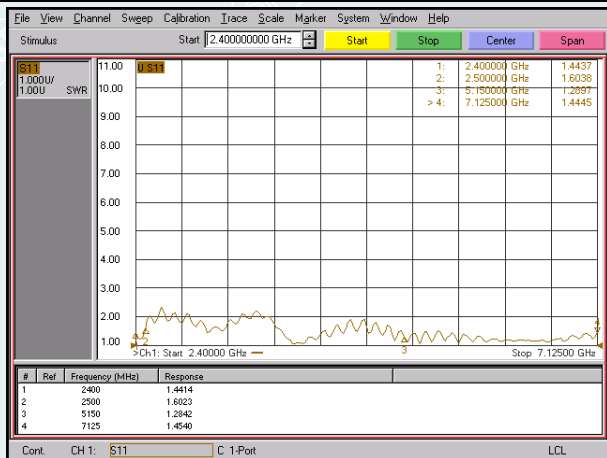


Fig.6-46 Function check before test 18# (WIFI-2)

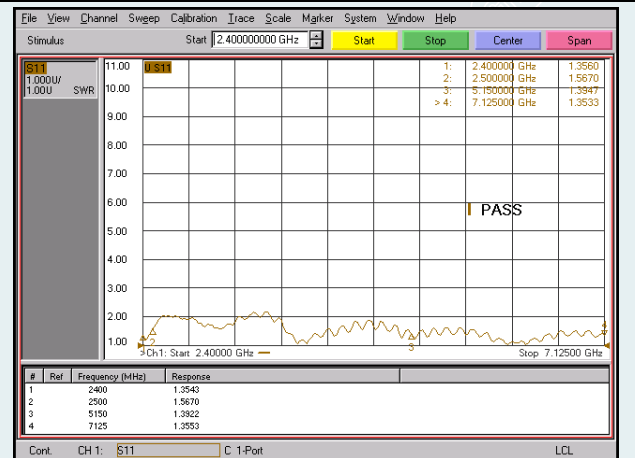


Fig.6-47 Function check after test 18# (WIFI-2)

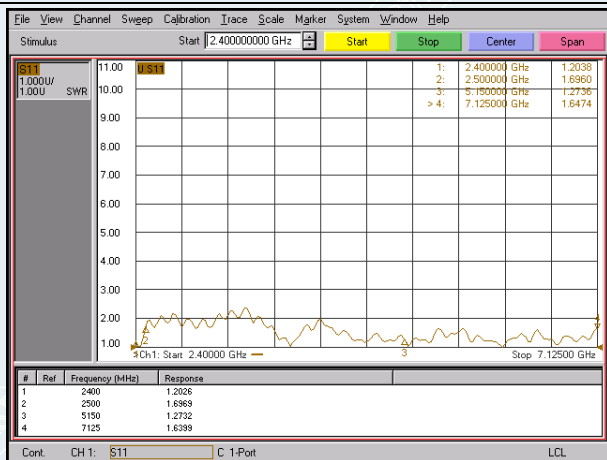


Fig.6-48 Function check before test 18# (WIFI-3)

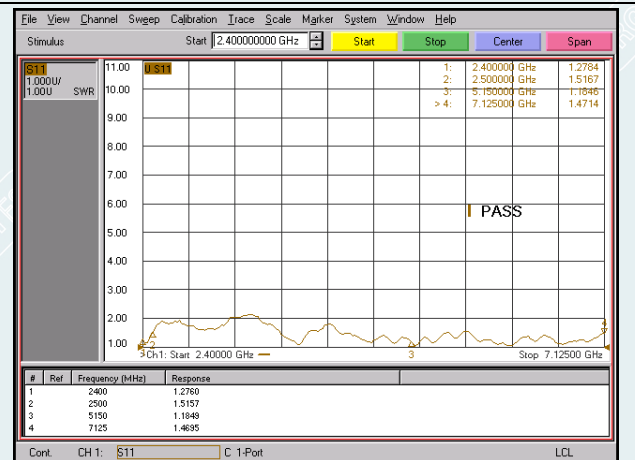


Fig.6-49 Function check after test 18# (WIFI-3)

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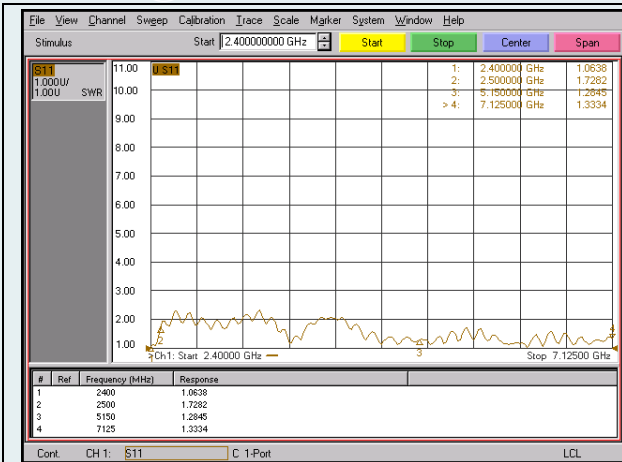


Fig.6-50 Function check before test 18# (WIFI-4)

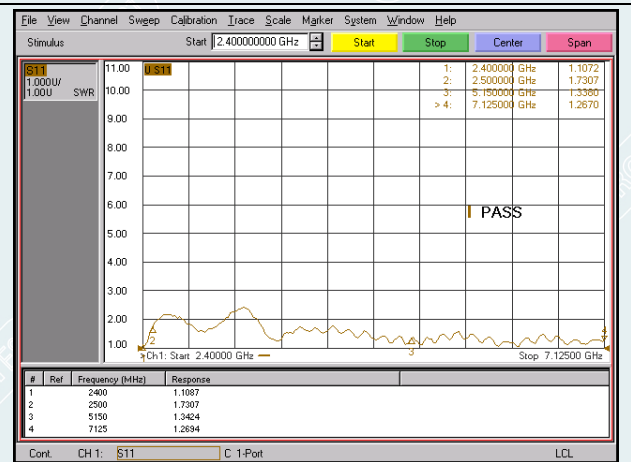


Fig.6-51 Function check after test 18# (WIFI-4)

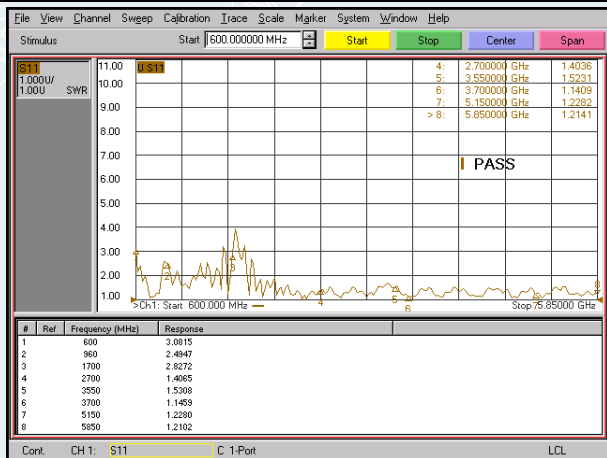


Fig.6-52 Function check before test 18# (CELL-1)

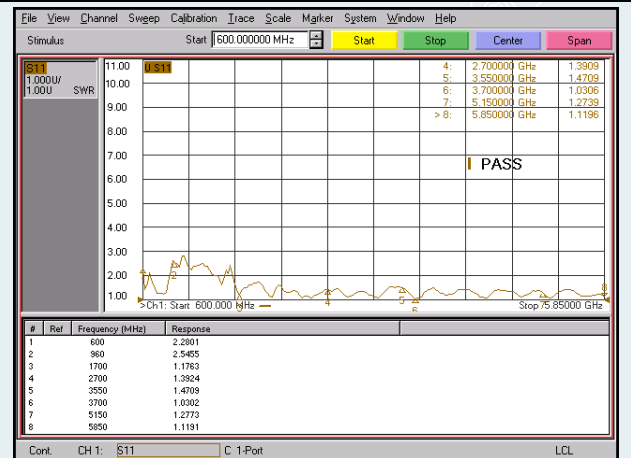


Fig.6-53 Function check after test 18# (CELL-1)

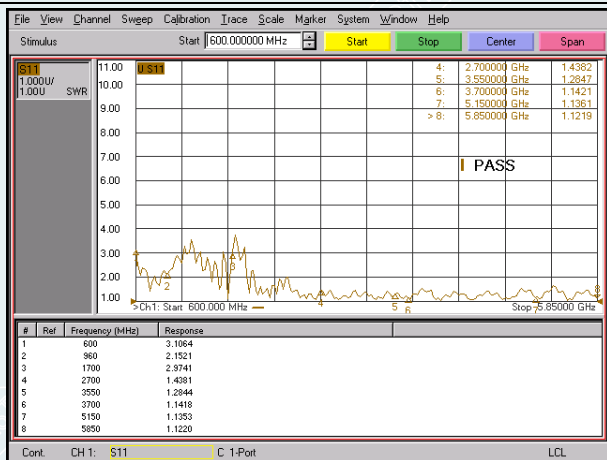


Fig.6-54 Function check before test 18# (CELL-2)

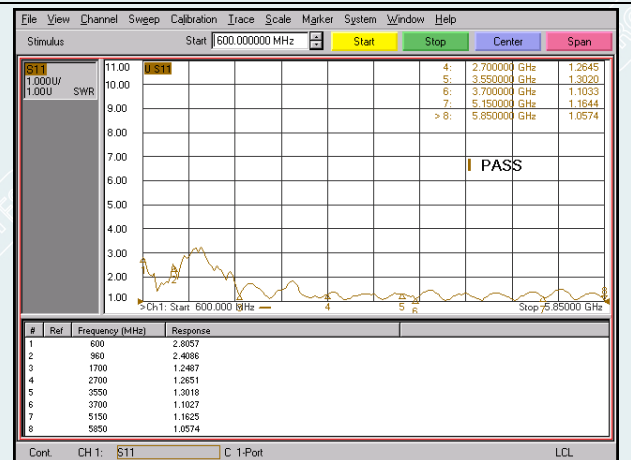


Fig.6-55 Function check after test 18# (CELL-2)

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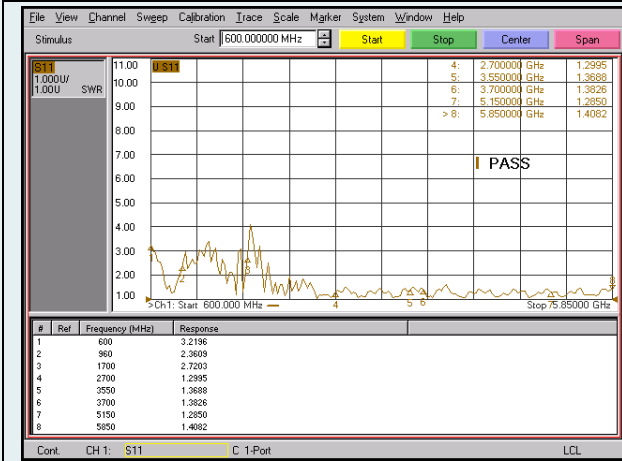


Fig.6-56 Function check before test 18# (CELL-3)

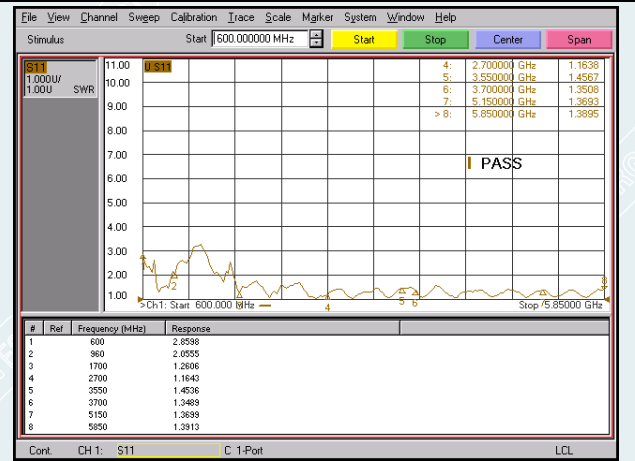


Fig.6-57 Function check after test 18# (CELL-3)

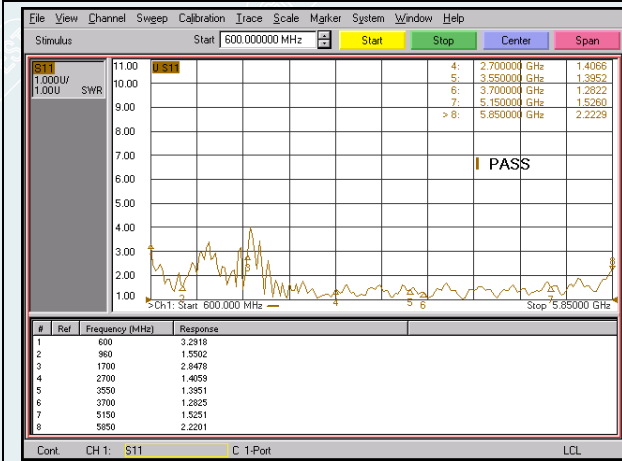


Fig.6-58 Function check before test 18# (CELL-4)

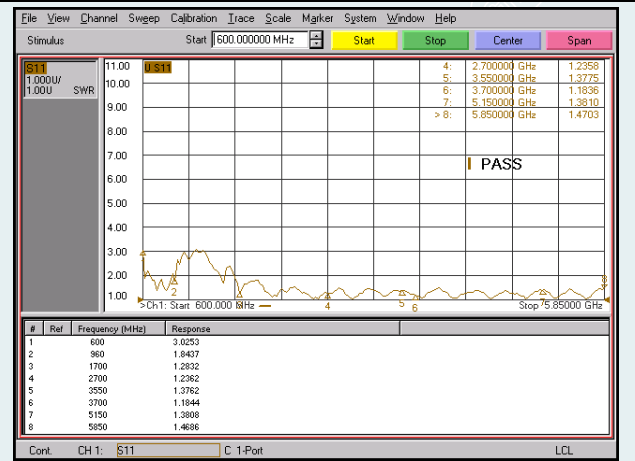


Fig.6-59 Function check after test 18# (CELL-4)

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7 IPX7

7.1 Test condition

7.1.1 Test basis: IEC 60529:2013;

7.1.2 Test method: Temporary immersion in water;

7.1.3 Immersion depth: 1m;

7.1.4 Test time: 30min.

7.2 Sample information

Sample information is shown in Table 7-1.

Table 7-1 Sample information

Sample description	Model/Type	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS, RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	H202008078982-19#
		H202008078982-20#
		H202008078982-21#

7.3 Test requirements

7.3.1 Judgment basis: IEC 60529:2013;

7.3.2 Appearance requirements: After the test, there should be no water into the sample.

7.4 Test result

The test results are shown in Table 7-2.

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Table 7-2 Test result

Sample description	Test No.	Visual inspection	Conclusion
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	H202008078982-19#	After the test, no water was found into the sample.	Meet the requirements
	H202008078982-20#	After the test, no water was found into the sample.	Meet the requirements
	H202008078982-21#	After the test, no water was found into the sample.	Meet the requirements

7.5 Test photos



Fig.7-1 Before the test (19#~21#)



Fig.7-2 After the test (19#~21#)



Fig.7-3 IPX7 testing



Fig.7-4 Post-test inspection

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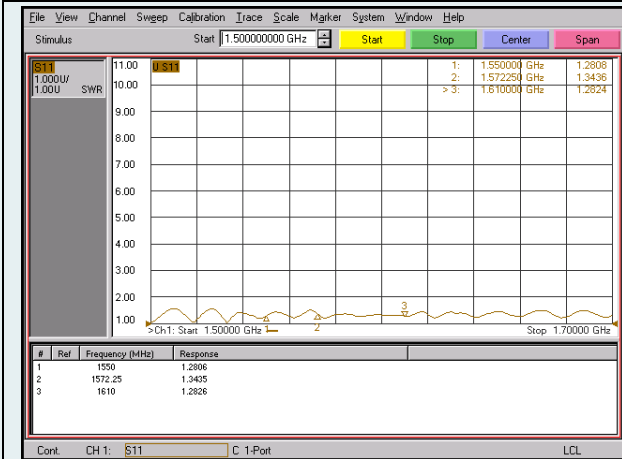


Fig.7-5 Function check before test 19# (GPS)



Fig.7-6 Function check after test 19# (GPS)

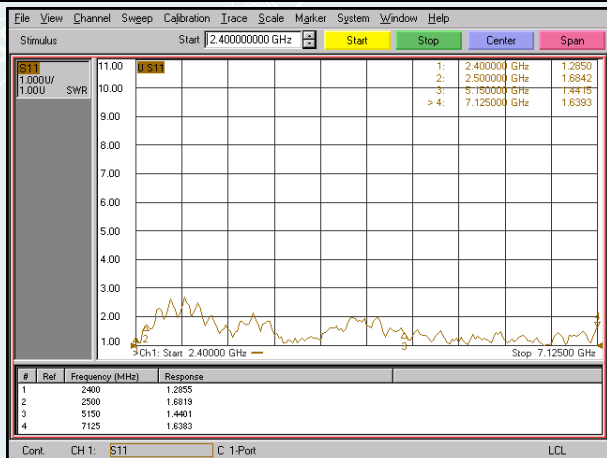


Fig.7-7 Function check before test 19# (WIFI-1)



Fig.7-8 Function check after test 19# (WIFI-1)

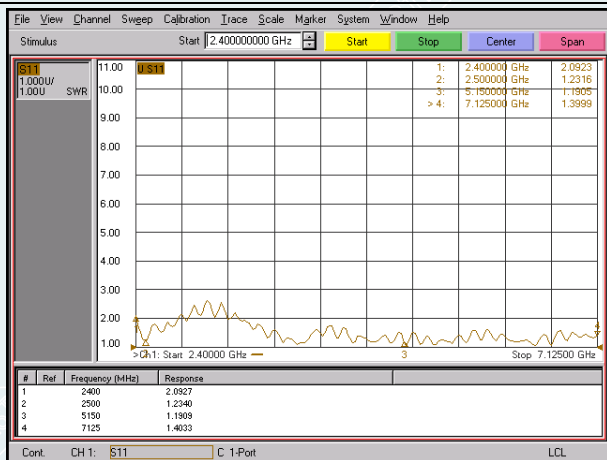


Fig.7-9 Function check before test 19# (WIFI-2)

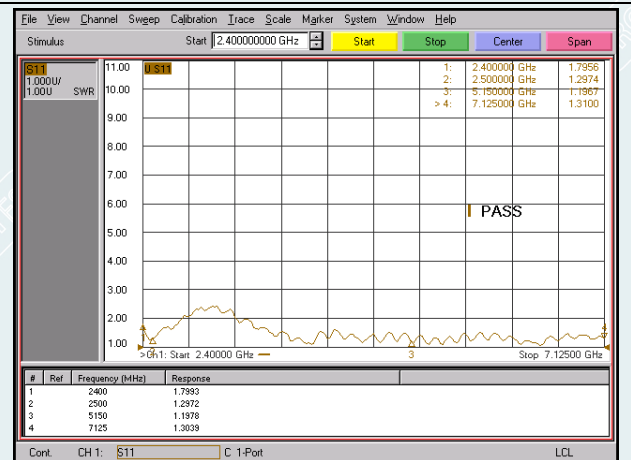


Fig.7-10 Function check after test 19# (WIFI-2)

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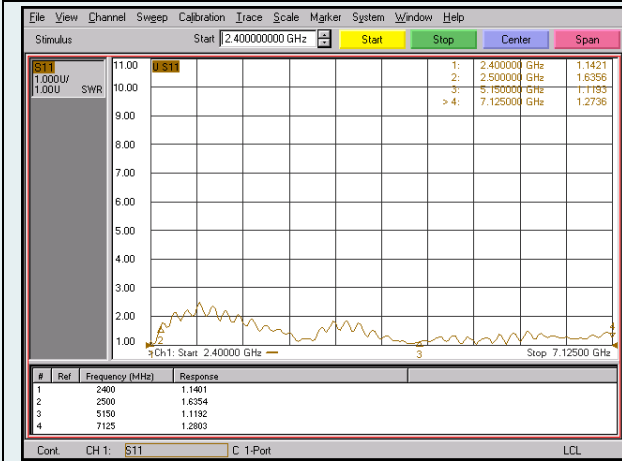


Fig.7-11 Function check before test 19# (WIFI-3)

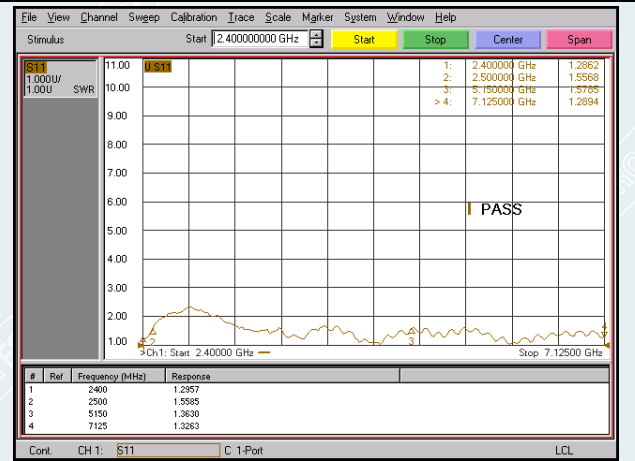


Fig.7-12 Function check after test 19# (WIFI-3)

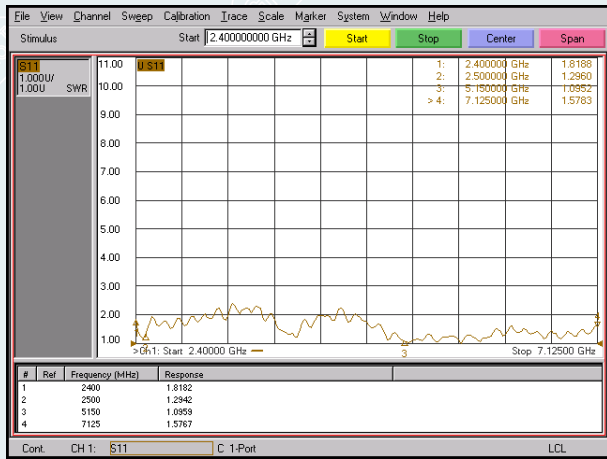


Fig.7-13 Function check before test 19# (WIFI-4)

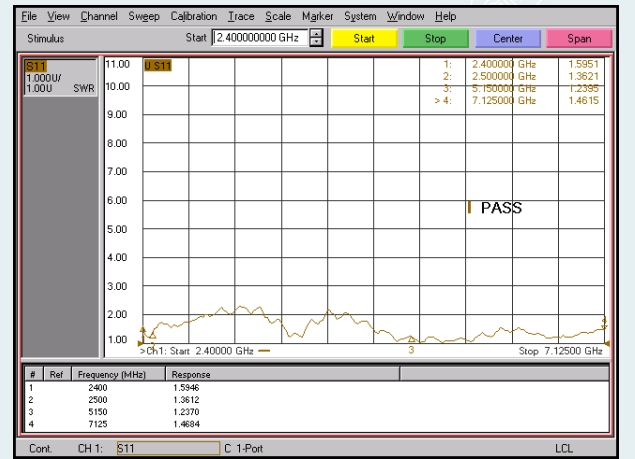


Fig.7-14 Function check after test 19# (WIFI-4)

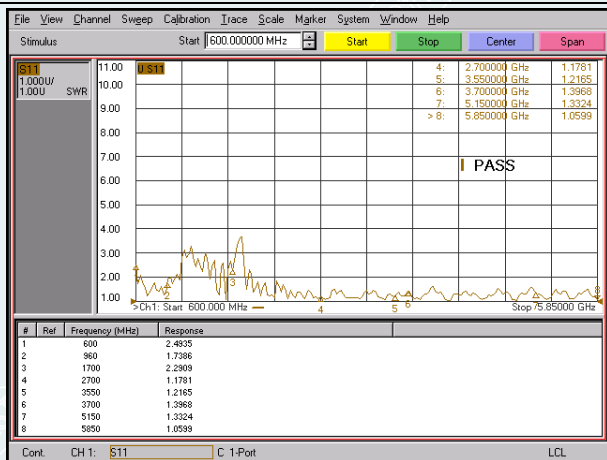


Fig.7-15 Function check before test 19# (CELL-1)

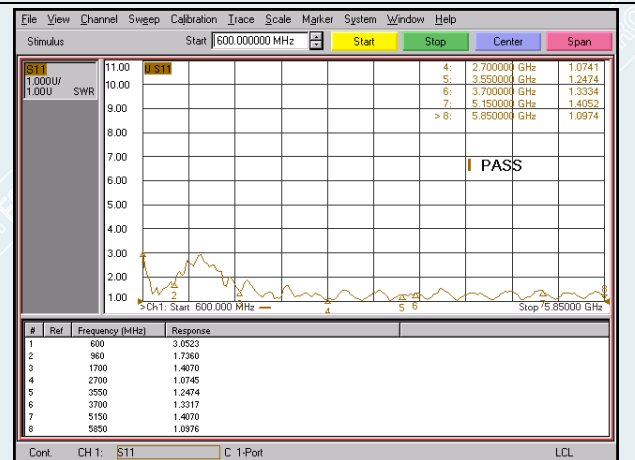


Fig.7-16 Function check after test 19# (CELL-1)

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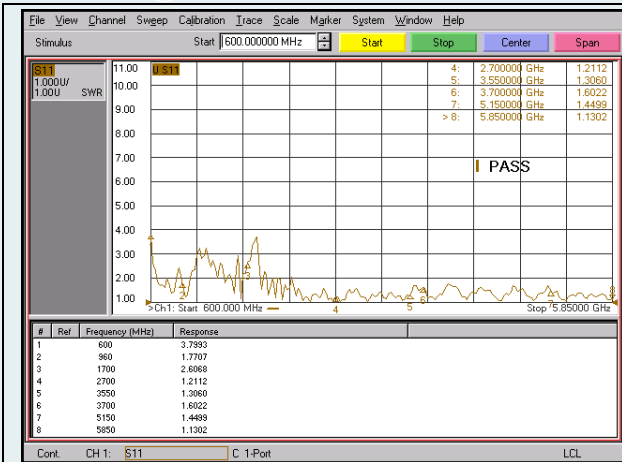


Fig.7-17 Function check before test 19# (CELL-2)

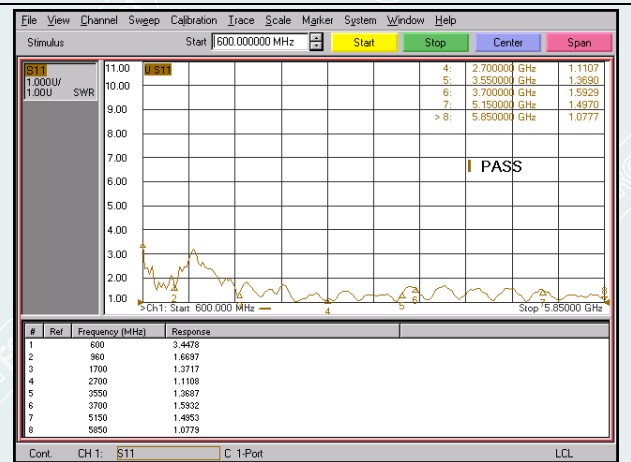


Fig.7-18 Function check after test 19# (CELL-2)

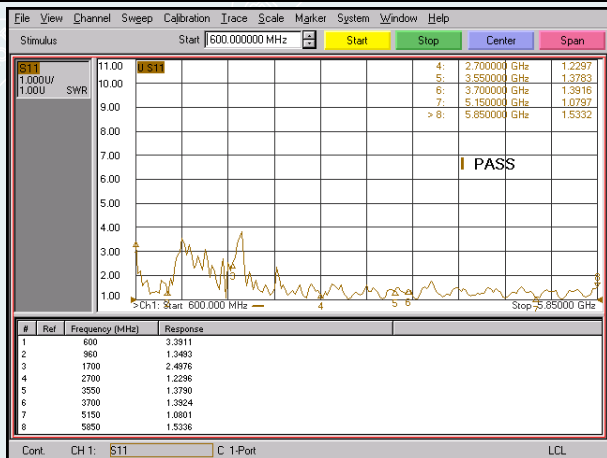


Fig.7-19 Function check before test 19# (CELL-3)

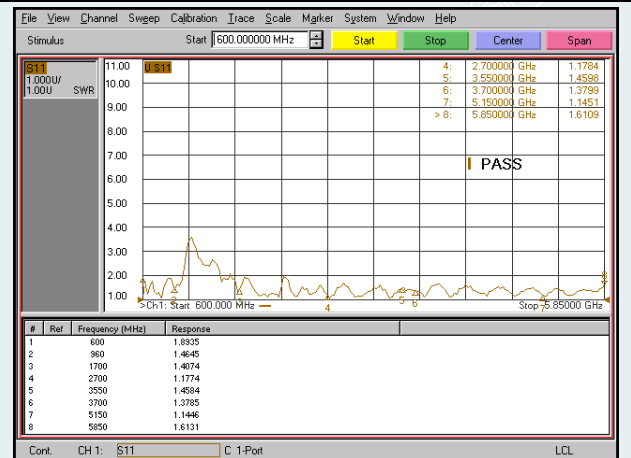


Fig.7-20 Function check after test 19# (CELL-3)

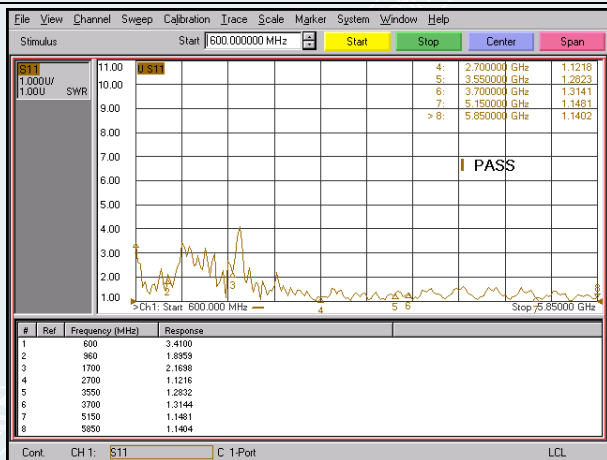


Fig.7-21 Function check before test 19# (CELL-4)

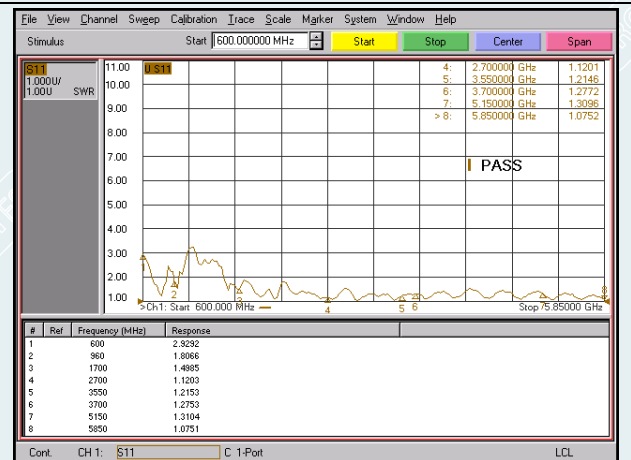


Fig.7-22 Function check after test 19# (CELL-4)

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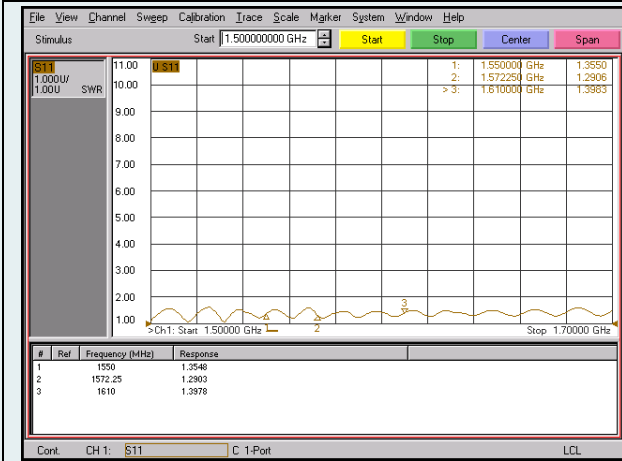


Fig.7-23 Function check before test 20# (GPS)



Fig.7-24 Function check after test 20# (GPS)

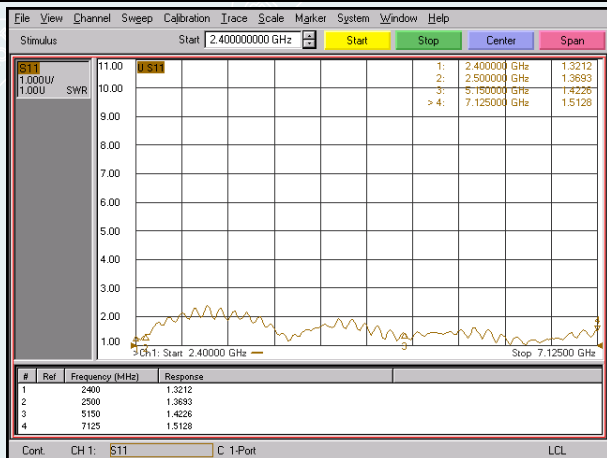


Fig.7-25 Function check before test 20# (WIFI-1)

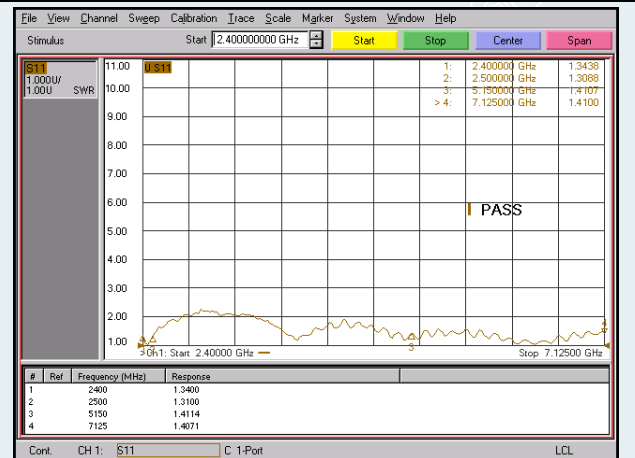


Fig.7-26 Function check after test 20# (WIFI-1)

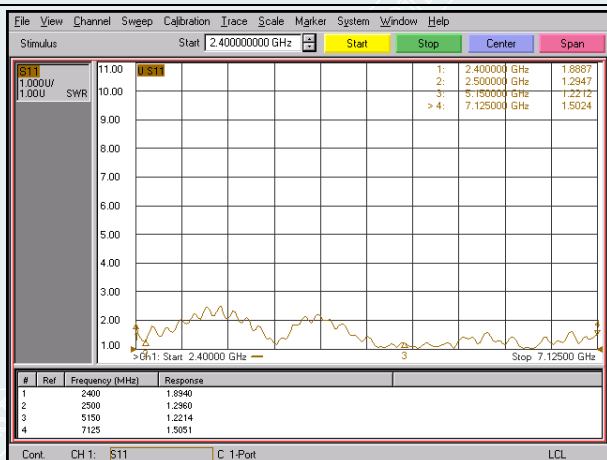


Fig.7-27 Function check before test 20# (WIFI-2)

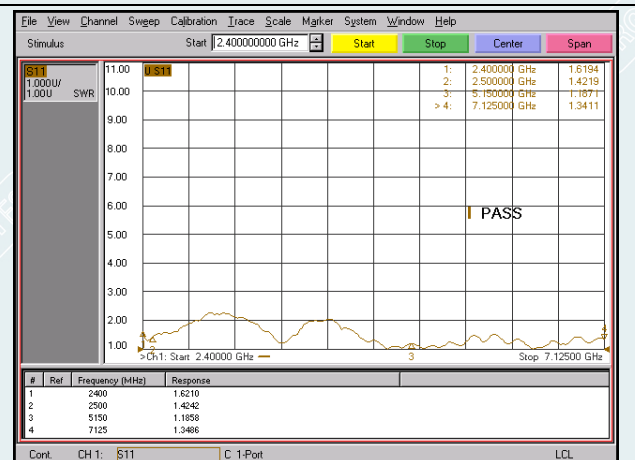


Fig.7-28 Function check after test 20# (WIFI-2)

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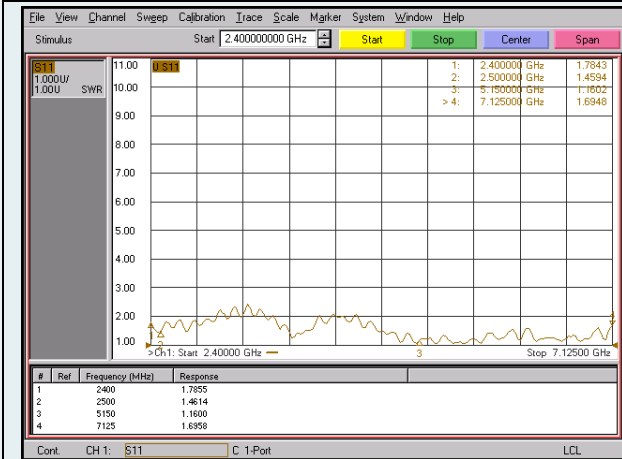


Fig.7-29 Function check before test 20# (WIFI-3)

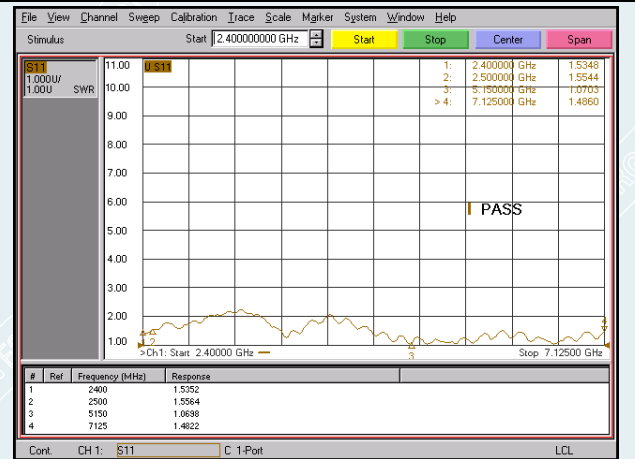


Fig.7-30 Function check after test 20# (WIFI-3)

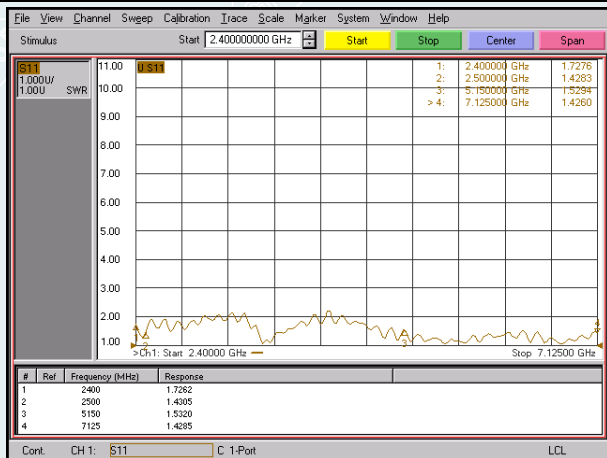


Fig.7-31 Function check before test 20# (WIFI-4)

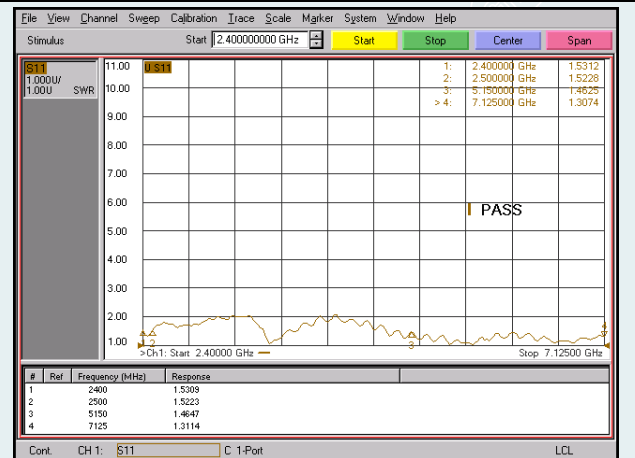


Fig.7-32 Function check after test 20# (WIFI-4)

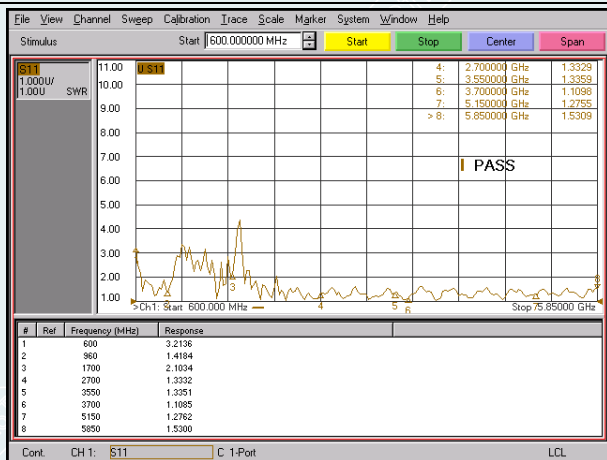


Fig.7-33 Function check before test 20# (CELL-1)

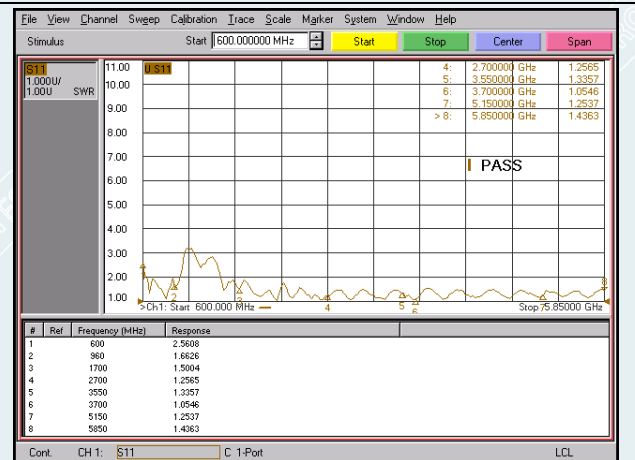


Fig.7-34 Function check after test 20# (CELL-1)

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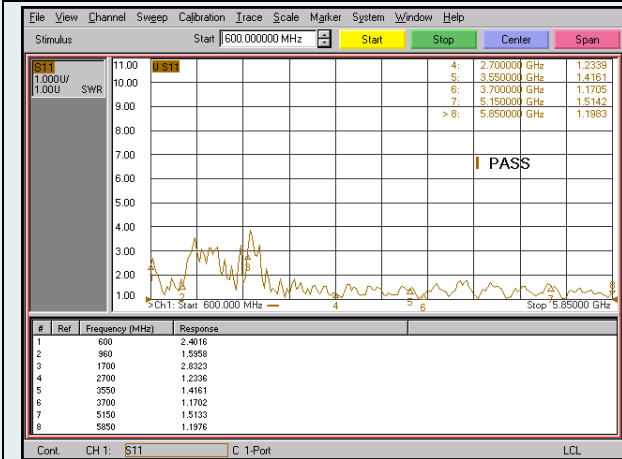


Fig.7-35 Function check before test 20# (CELL-2)

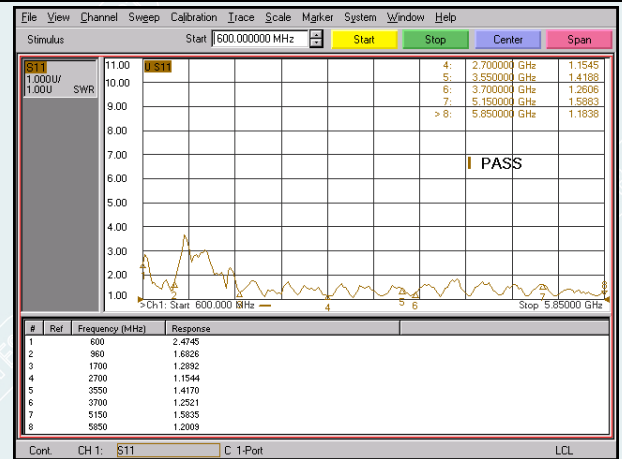


Fig.7-36 Function check after test 20# (CELL-2)

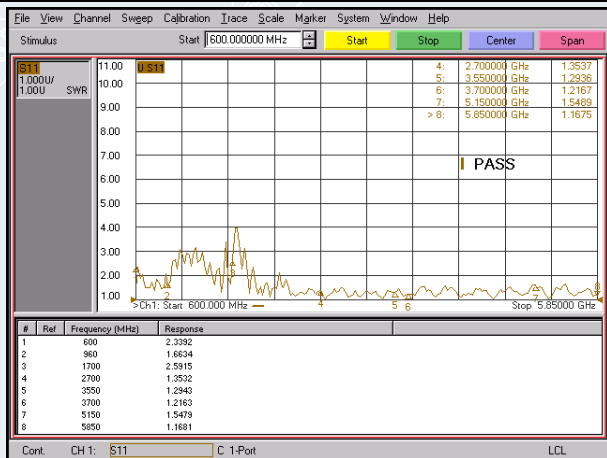


Fig.7-37 Function check before test 20# (CELL-3)

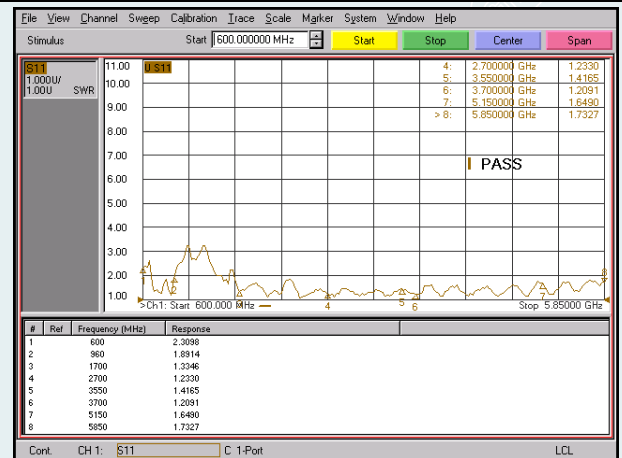


Fig.7-38 Function check after test 20# (CELL-3)

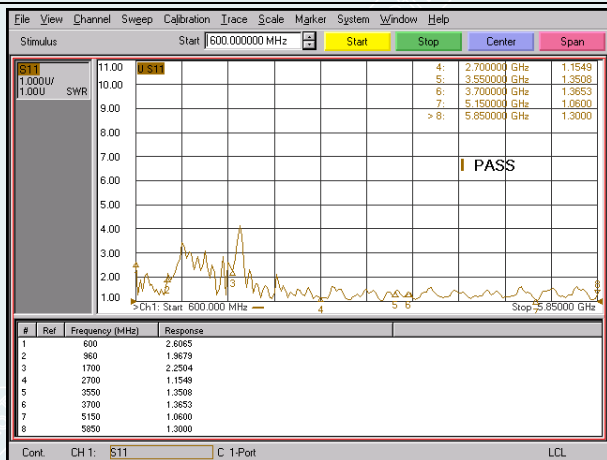


Fig.7-39 Function check before test 20# (CELL-4)

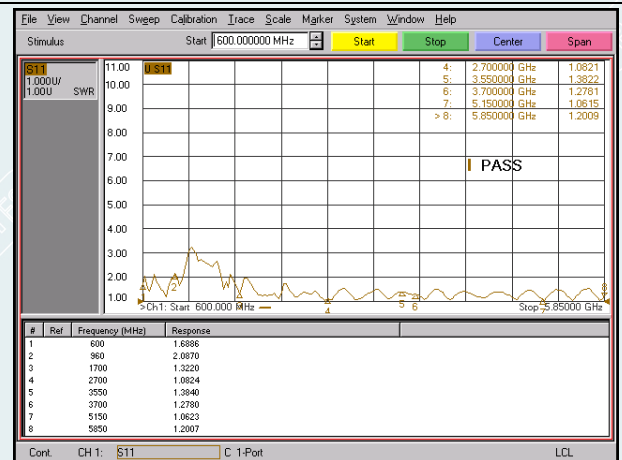


Fig.7-40 Function check after test 20# (CELL-4)

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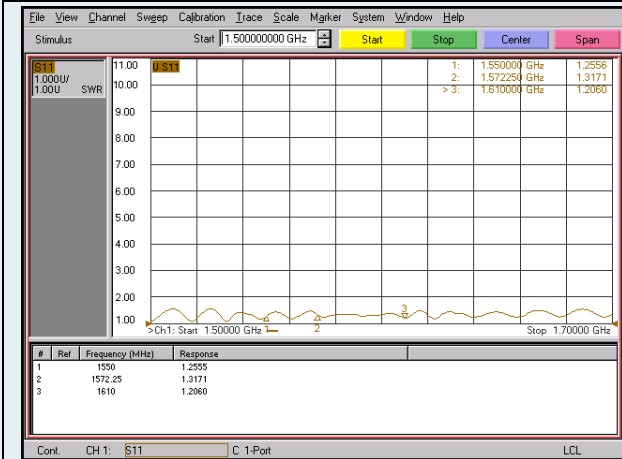


Fig.7-41 Function check before test 21# (GPS)



Fig.7-42 Function check after test 21# (GPS)

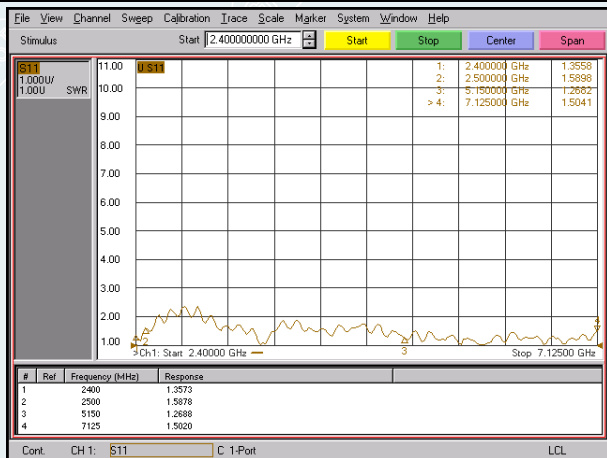


Fig.7-43 Function check before test 21# (WIFI-1)

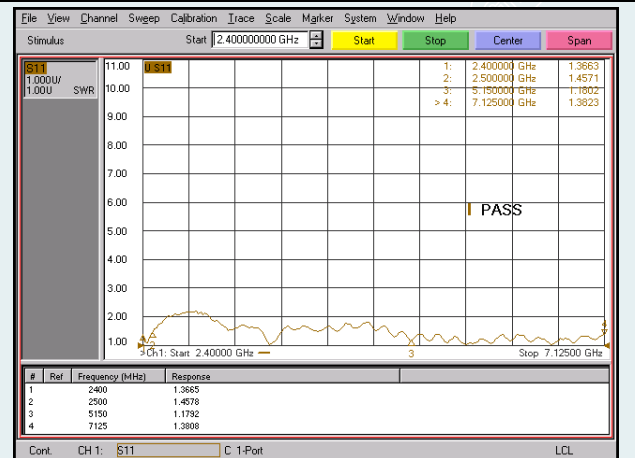


Fig.7-44 Function check after test 21# (WIFI-1)

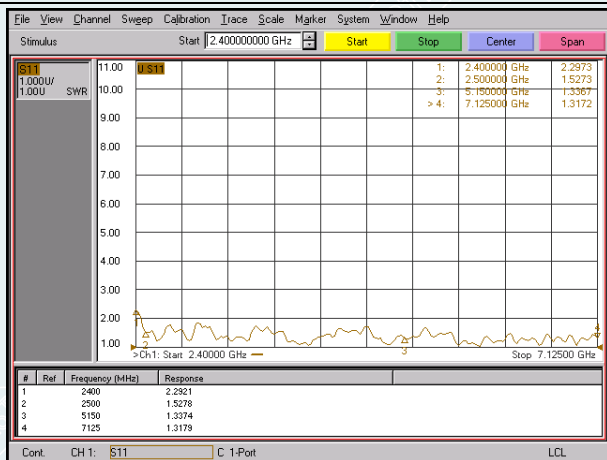


Fig.7-45 Function check before test 21# (WIFI-2)

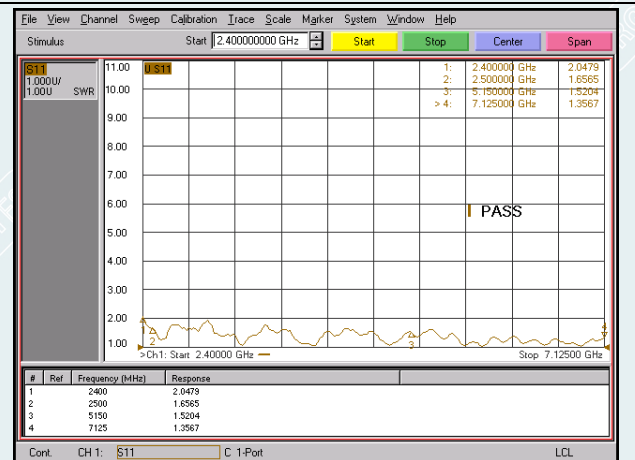


Fig.7-46 Function check after test 21# (WIFI-2)

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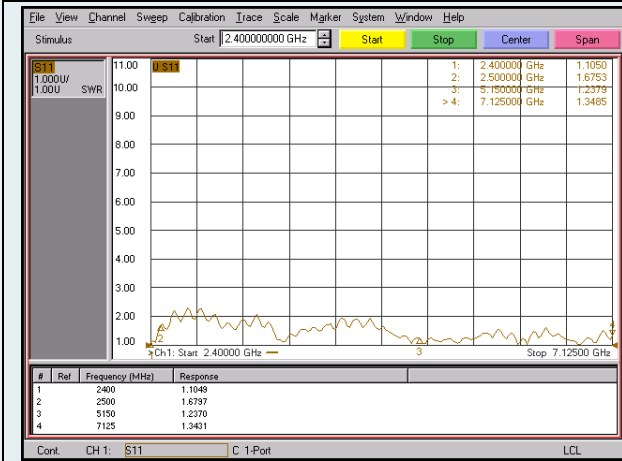


Fig.7-47 Function check before test 21# (WIFI-3)

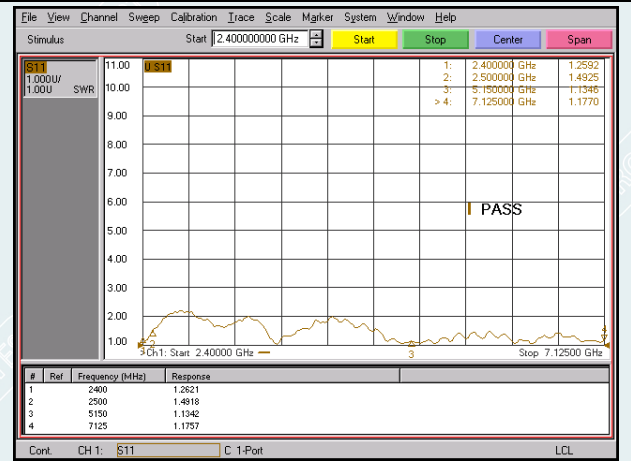


Fig.7-48 Function check after test 21# (WIFI-3)

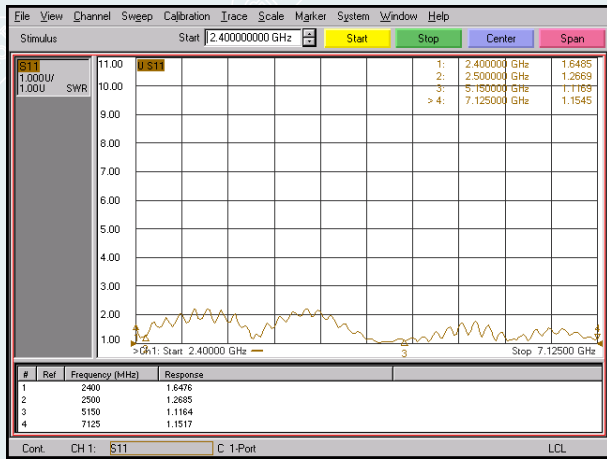


Fig.7-49 Function check before test 21# (WIFI-4)

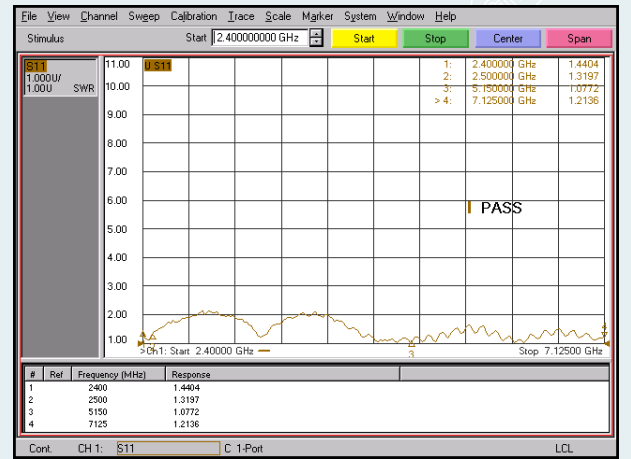


Fig.7-50 Function check after test 21# (WIFI-4)

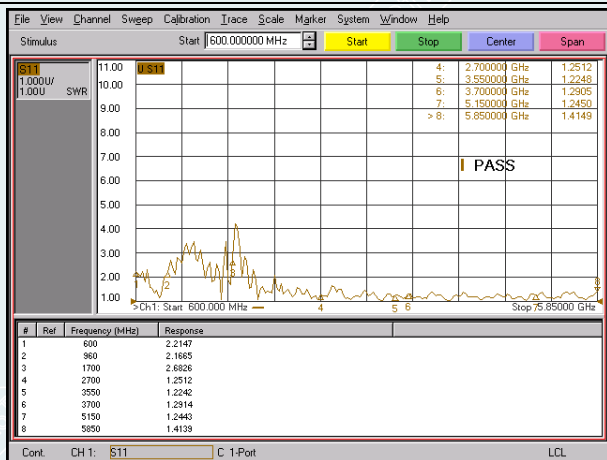


Fig.7-51 Function check before test 21# (CELL-1)

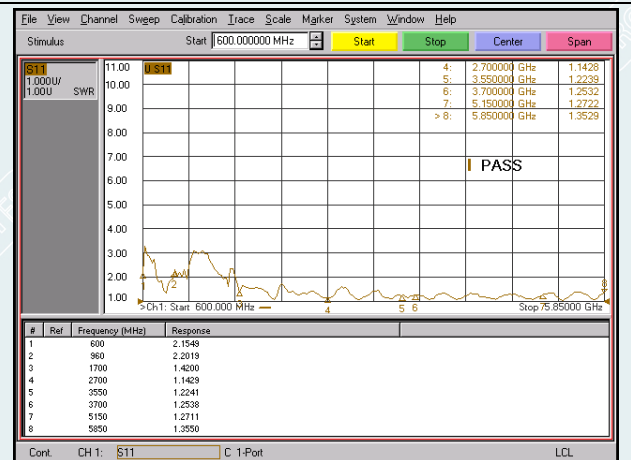


Fig.7-52 Function check after test 21# (CELL-1)

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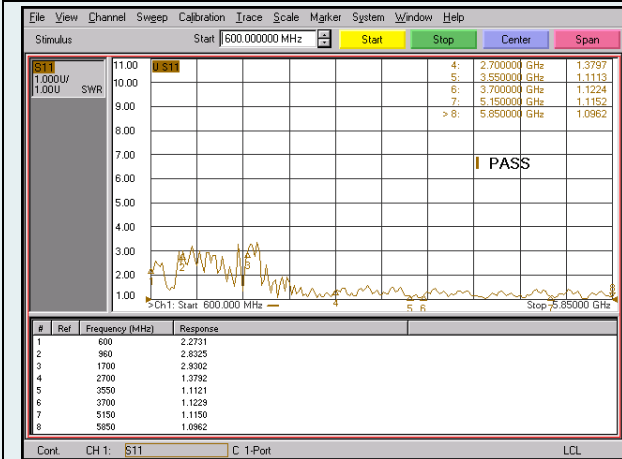


Fig.7-53 Function check before test 21# (CELL-2)

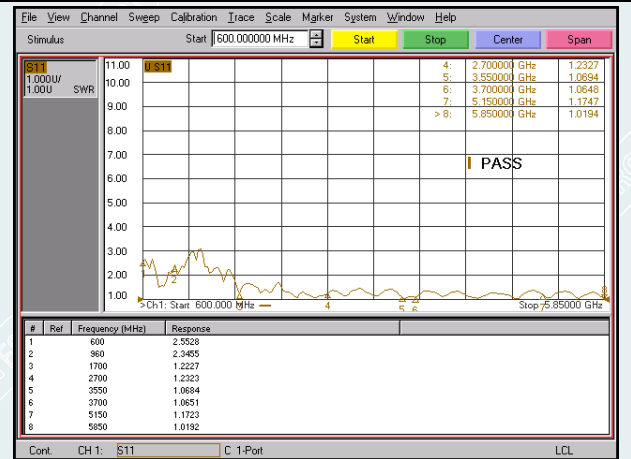


Fig.7-54 Function check after test 21# (CELL-2)

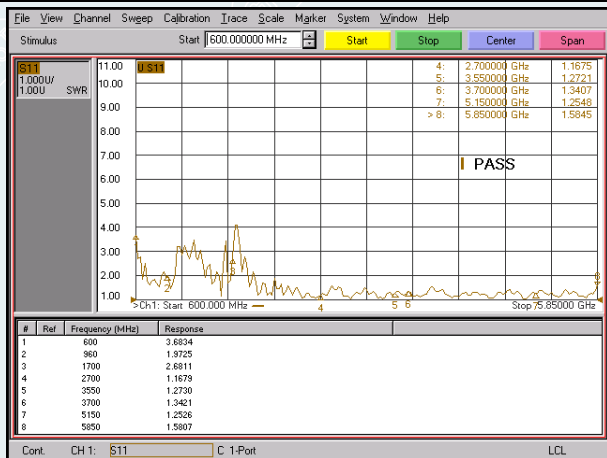


Fig.7-55 Function check before test 21# (CELL-3)

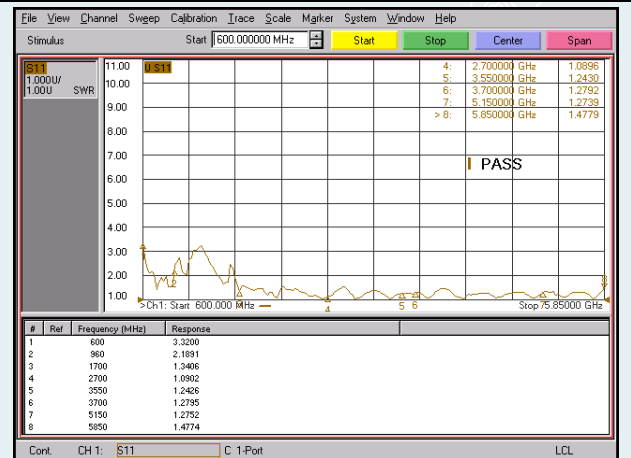


Fig.7-56 Function check after test 21# (CELL-3)

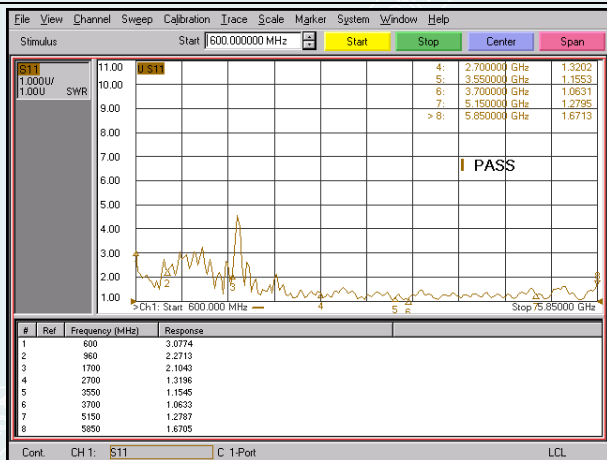


Fig.7-57 Function check before test 21# (CELL-4)

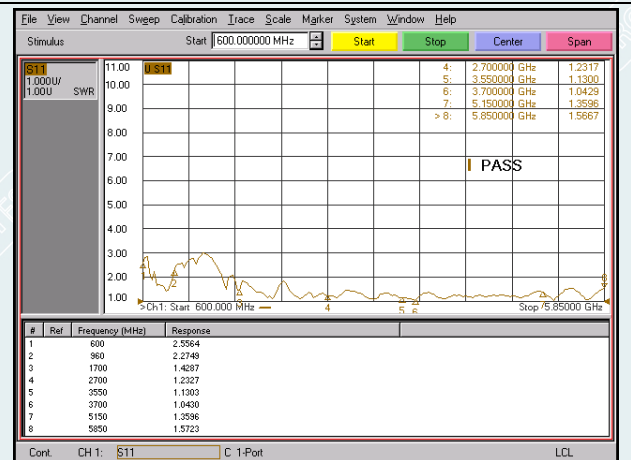


Fig.7-58 Function check after test 21# (CELL-4)

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8 Operational temperature test

8.1 Test condition

8.1.1 Test basis: MIL-STD-810G-2008;

8.1.2 Test condition: The test condition is shown in table 8-1 and table 8-2.

Table 8-1 Test condition

No	Temperature(°C)	Time(min)	Remarks	Test No.
1	27	5	Let stand for 5 minutes at room temperature 27 degrees Celsius	H202008078982-22#
2	-55	16.4	Decrease temperature to -55° C at a ramp rate of 5° C/min	
3	-55	120	Hold chamber at -55° C for 2 hours At the 1:45 mark perform testing of DUTs	
4	27	16.4	Increase temperature to 27° C at a ramp rate of 5° C/min	
5	27	---	The sample surface temperature reaches(25~30)°C, skip to the next section	
6	27	120	/	
Remarks:Cycle No.2 to No.5, cycle 3 times				

Table 8-2 Test condition

No	Temperature(°C)	Time(min)	Remarks	Test No.
1	25	5	Let stand for 5 minutes at room temperature 25 degrees Celsius	H202008078982-23#
2	85	12	Increase temperature to 85° C at a ramp rate of 5° C/min	
3	85	120	Hold chamber at 85° C for 2 hours At the 1:45 mark perform testing of DUTs	
4	25	12	Decrease temperature to 25° C at a ramp rate of 5° C/min	
5	25	---	The sample surface temperature reaches (25~30)°C, skip to the next section	
6	25	120	/	
Remarks:Cycle No.2 to No.5, cycle 3 times				

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8.2 Sample information

Sample information is shown in Table 8-2.

Table 8-2 Sample information

Sample description	Model/Type	Test No.
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	AP-NEXT-C4W4G-Q-SMA-RP5678-BL-15	H202008078982-22#
		H202008078982-23#

8.3 Test requirements

8.3.1 Appearance requirements: After the test, the appearance of the sample should have no abnormal phenomena such as deformation, discoloration or damage;

8.3.2 Function inspection: Inspection by the client.

8.4 Test result

The test results are shown in Table 8-3.

Table 8-3 Test result

Sample name	Test No.	Visual inspection	Function inspection	Conclusion
MIMO 5G (600 MHz-6 GHz) x 4, Wi-Fi 6 x 4 & GNSS, Threaded Bolt Mount, SMA on Cell/5G & GNSS,RP-SMA on Wi-Fi, Black, 15ft coax	H202008078982-22#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
	H202008078982-23#	After the test, there was no abnormal phenomenon such as damage, deformation and cracks on the sample.	Normal function before and after the test	Meet the requirements
Note: Functions are checked by the client.				

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8.5 Test photos



Fig.8-1 Before the test (22#,23#)



Fig.8-2 After the test (22#,23#)



Fig.8-3 Sample installation



Fig.8-4 During the test

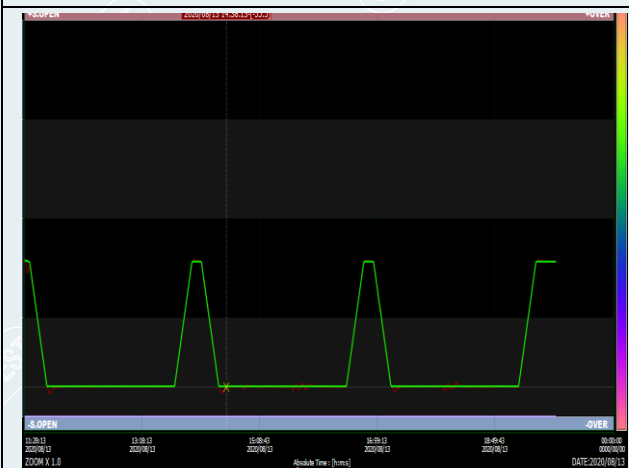


Fig.8-5 Fast temperature curve-1

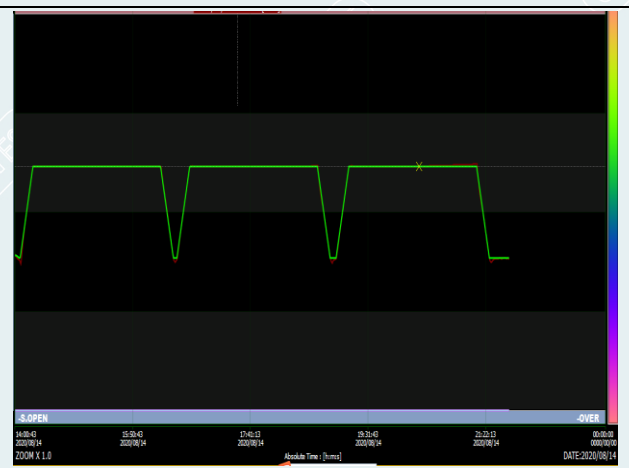


Fig.8-6 Fast temperature curve-2

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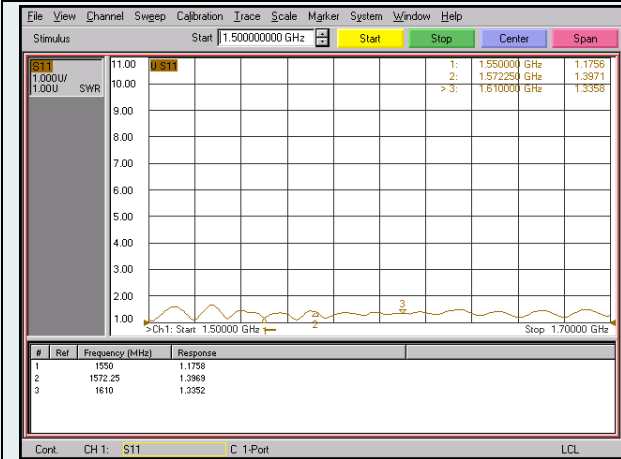


Fig.8-7 Test record one 22# (GPS)

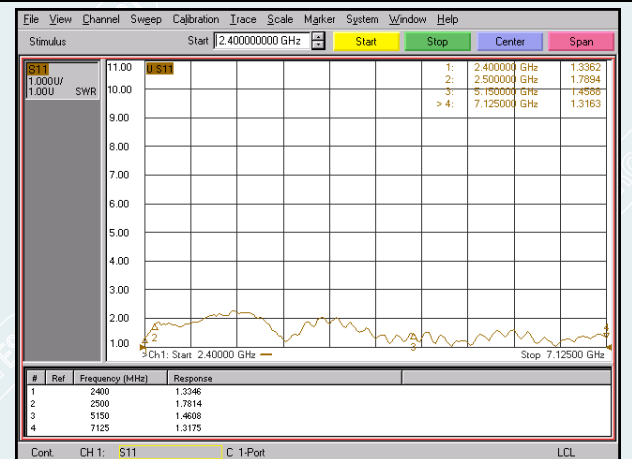


Fig.8-8 Test record one 22# (WIFI-1)

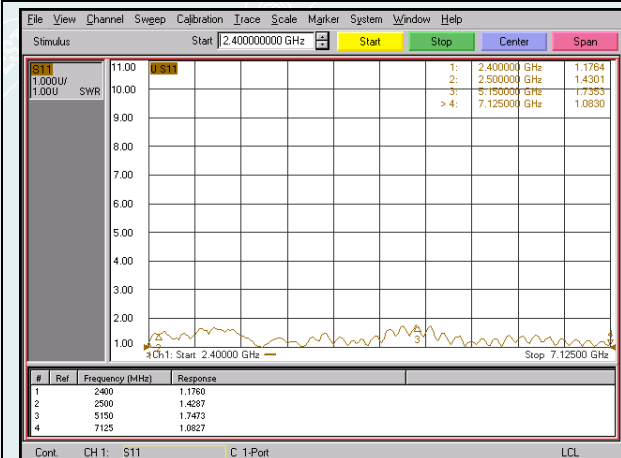


Fig.8-9 Test record one 22# (WIFI-2)

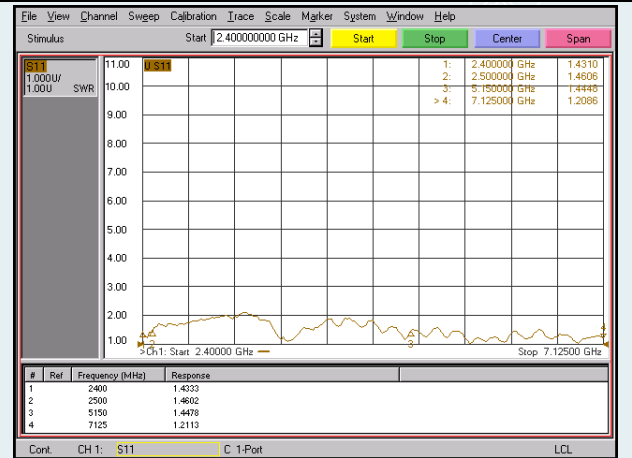


Fig.8-10 Test record one 22# (WIFI-3)

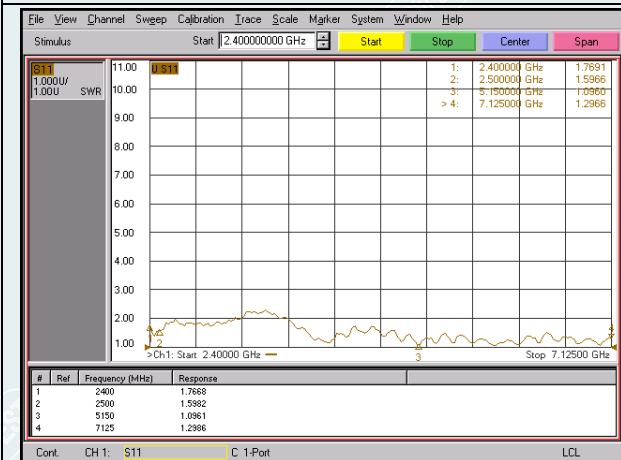


Fig.8-11 Test record one 22# (WIFI-4)

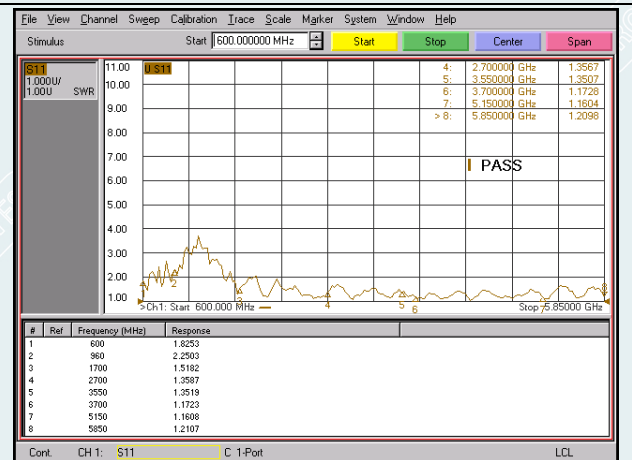


Fig.8-12 Test record one 22# (CELL-1)

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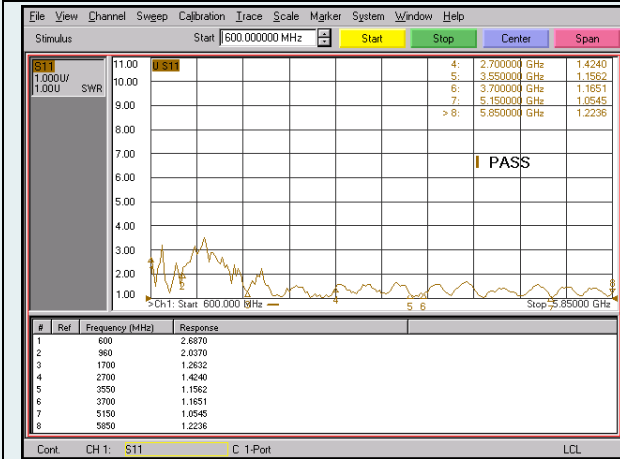


Fig.8-13 Test record one 22# (CELL-2)

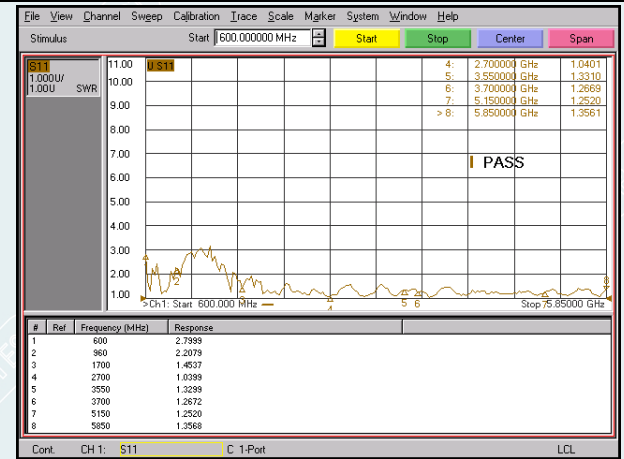


Fig.8-14 Test record one 22# (CELL-3)

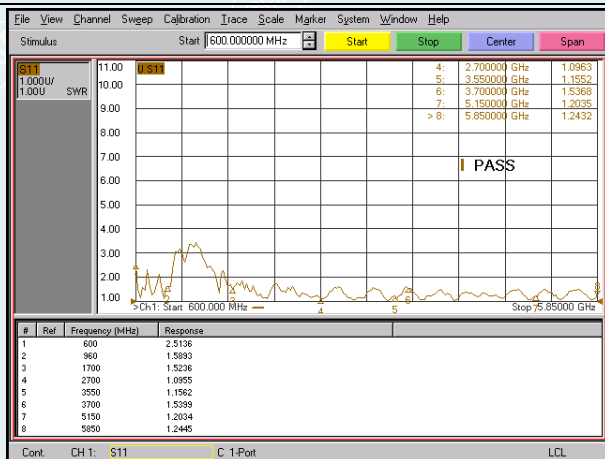


Fig.8-15 Test record one 22# (CELL-4)

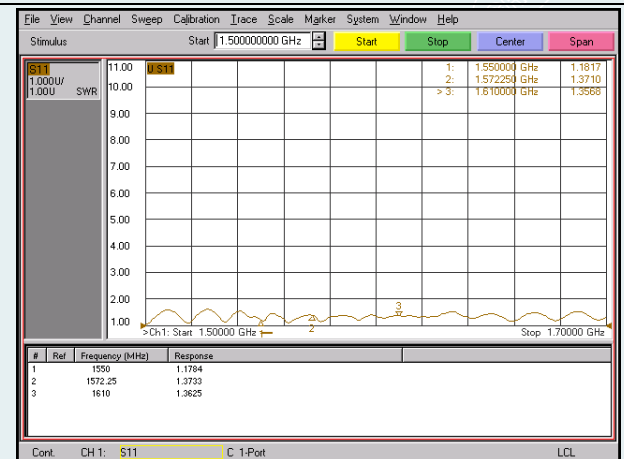


Fig.8-16 Test record two 22# (GPS)

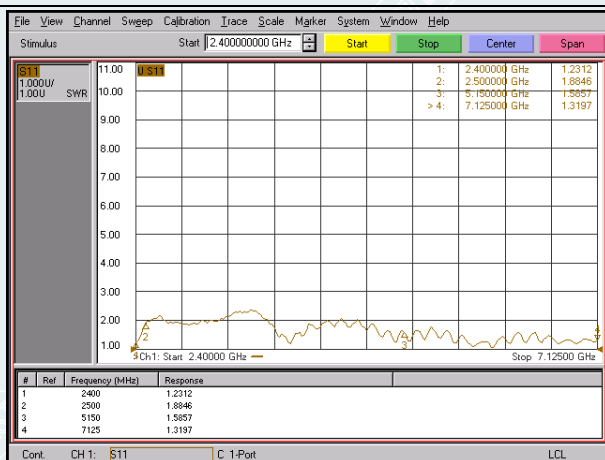


Fig.8-17 Test record two 22# (WIFI-1)

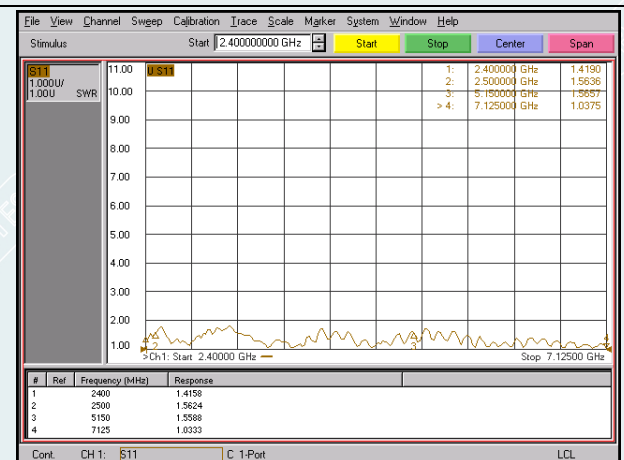


Fig.8-18 Test record two 21# (WIFI-2)

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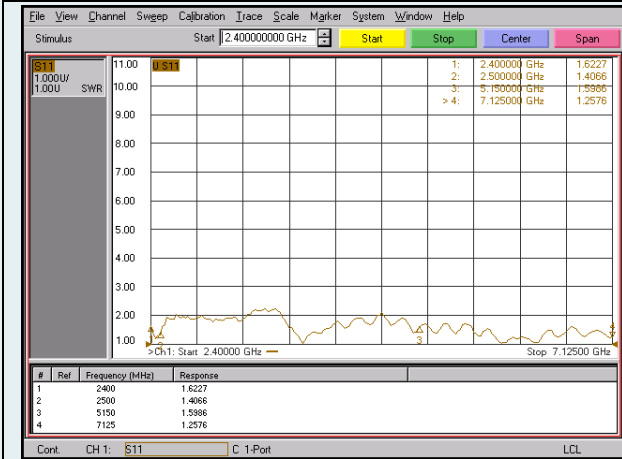


Fig.8-19 Test record two 22# (WIFI-3)

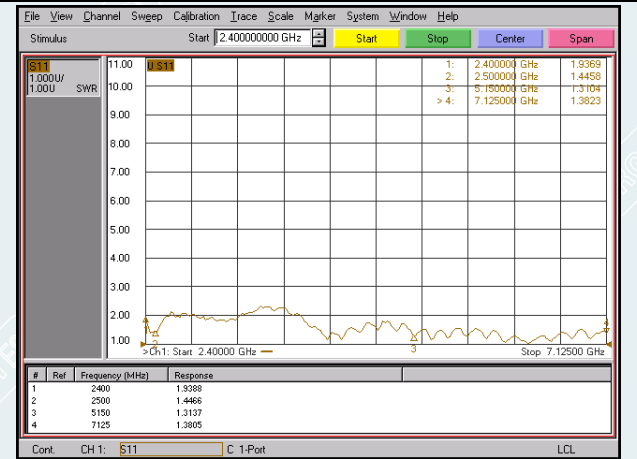


Fig.8-20 Test record two 22# (WIFI-4)

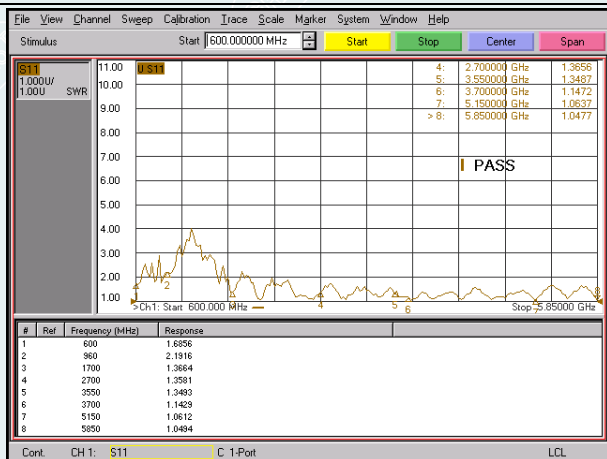


Fig.8-21 Test record two 22# (CELL-1)

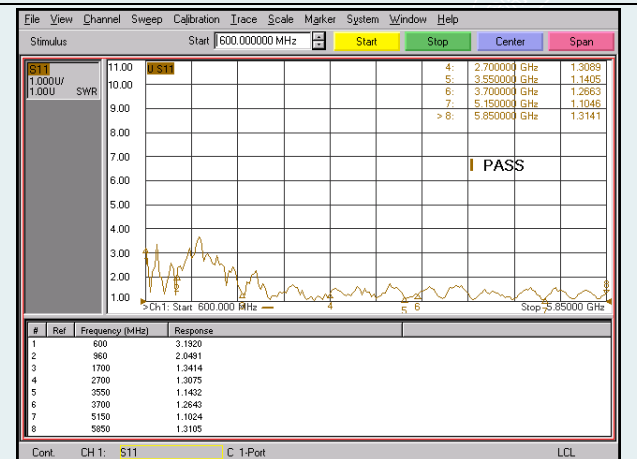


Fig.8-22 Test record two 22# (CELL-2)

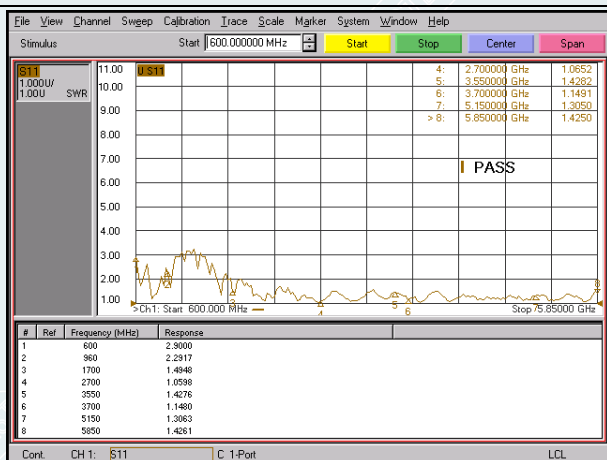


Fig.8-23 Test record two 22# (CELL-3)

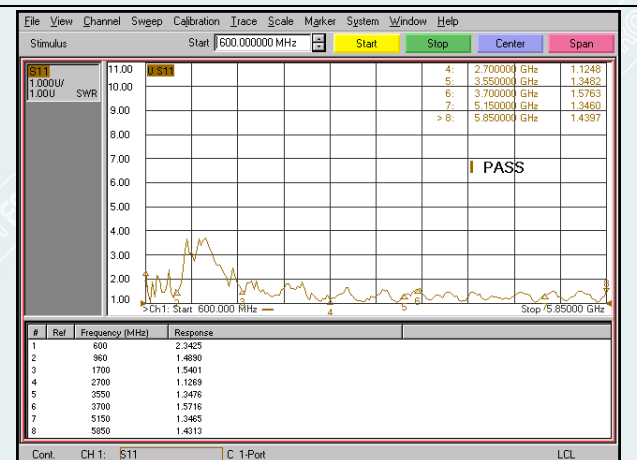


Fig.8-24 Test record two 22# (CELL-4)

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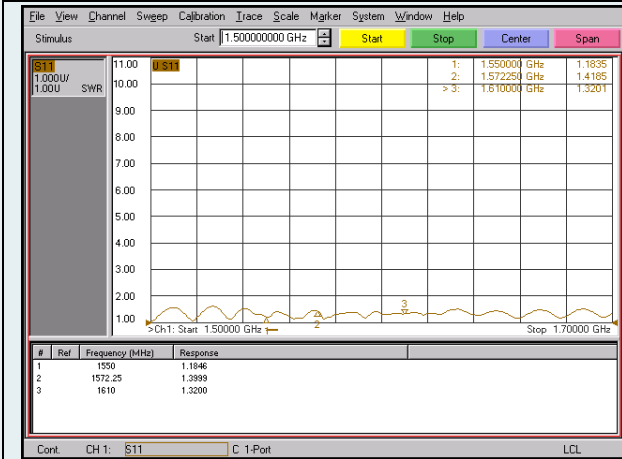


Fig.8-25 Test record three 22# (GPS)

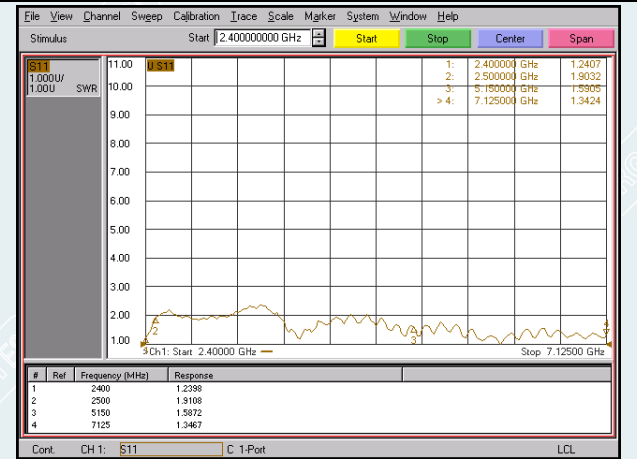


Fig.8-26 Test record three 22# (WIFI-1)

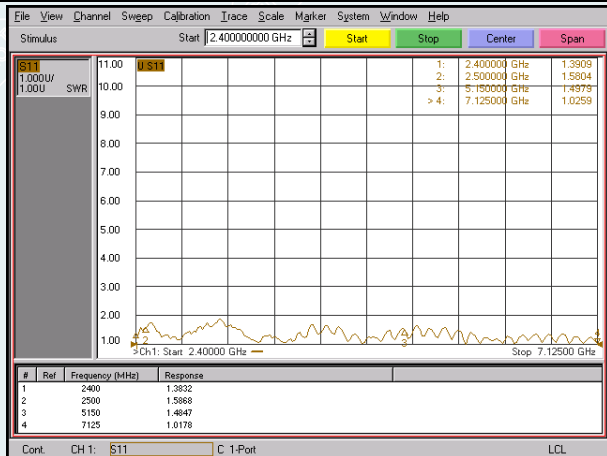


Fig.8-27 Test record three 22# (WIFI-2)

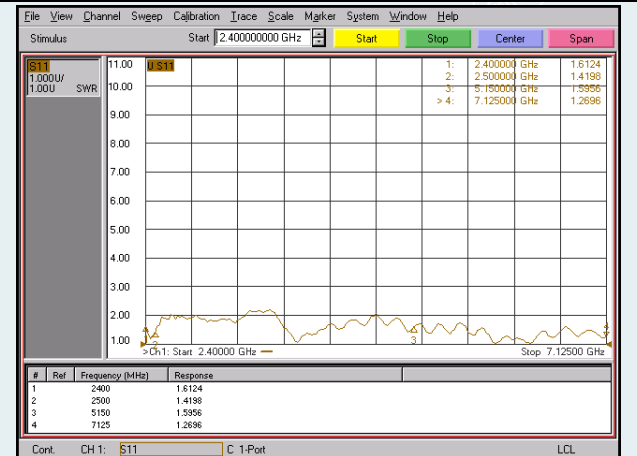


Fig.8-28 Test record three 22# (WIFI-3)

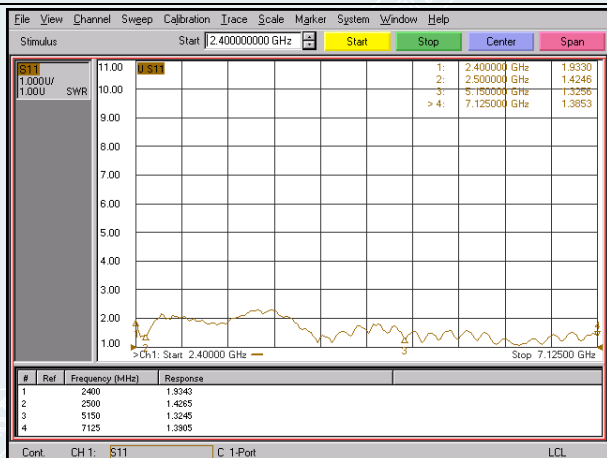


Fig.8-29 Test record three 22# (WIFI-4)

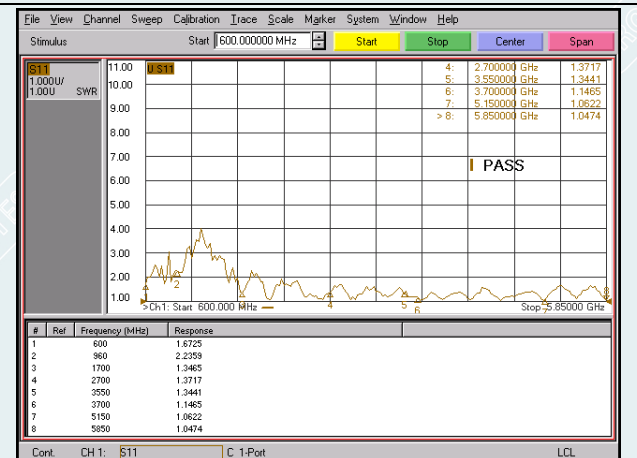


Fig.8-30 Test record three 22# (CELL-1)

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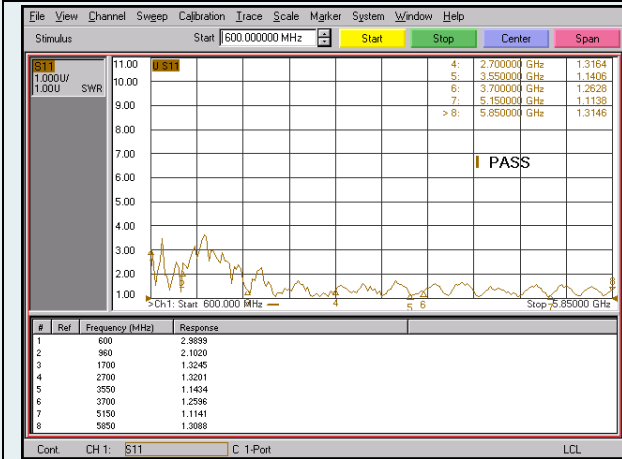


Fig.8-31 Test record three 22# (CELL-2)

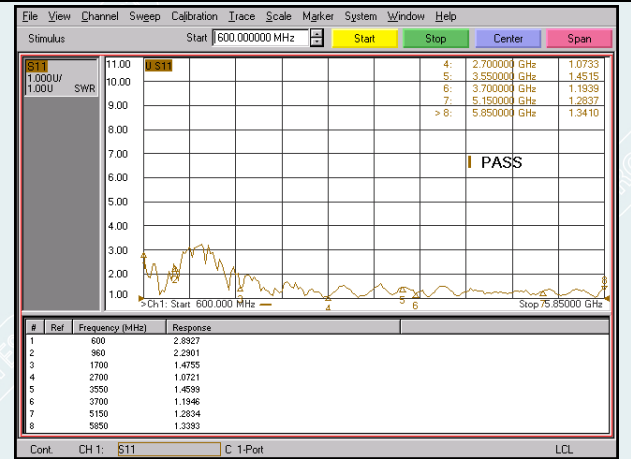


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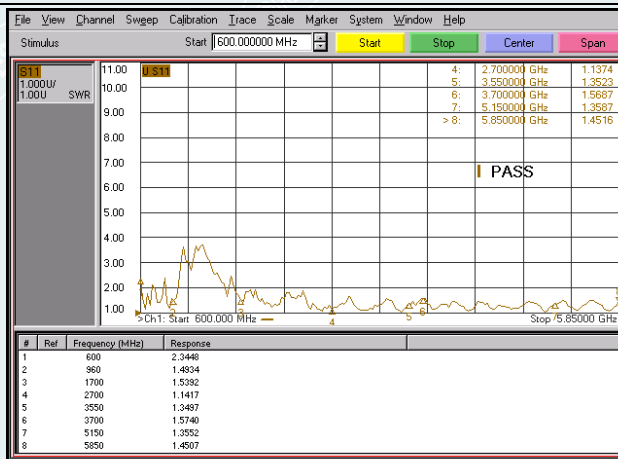


Fig.8-33 Test record three 22# (CELL-4)

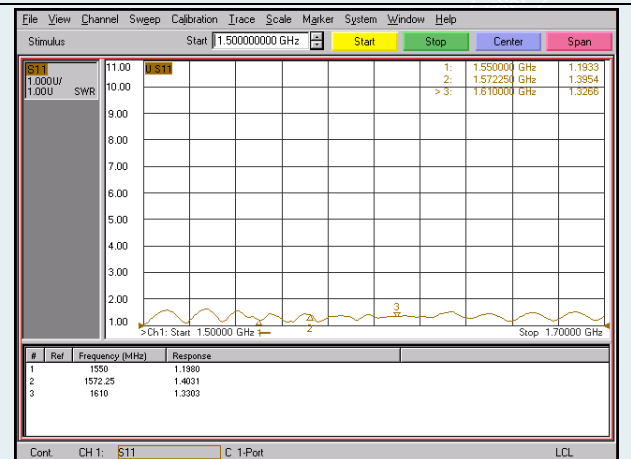


Fig.8-34 Test record four 22# (GPS)

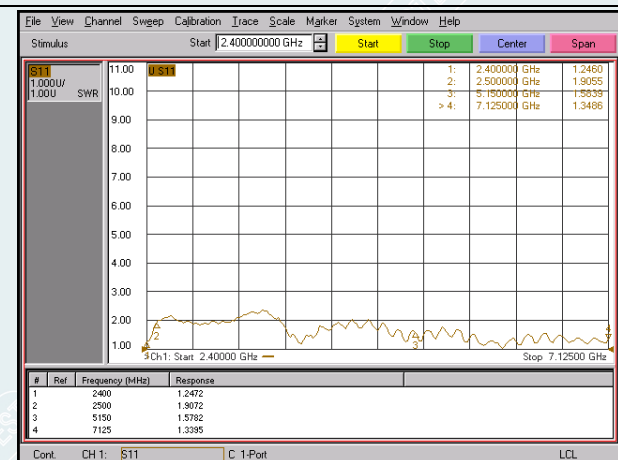


Fig.8-35 Test record four 22# (WIFI-1)

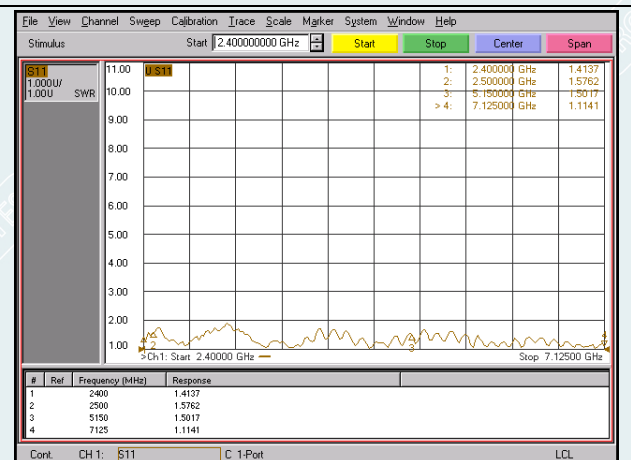


Fig.8-36 Test record four 22# (WIFI-2)

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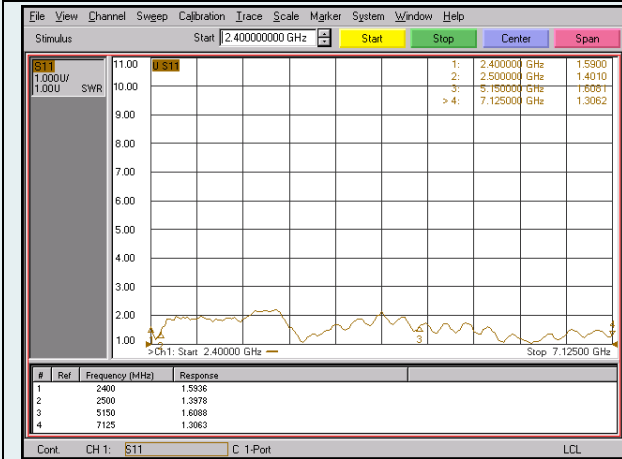


Fig.8-37 Test record four 22# (WIFI-3)

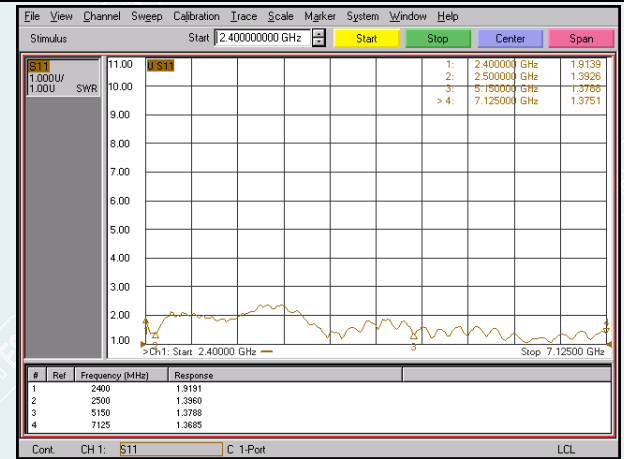


Fig.8-38 Test record four 22# (WIFI-4)

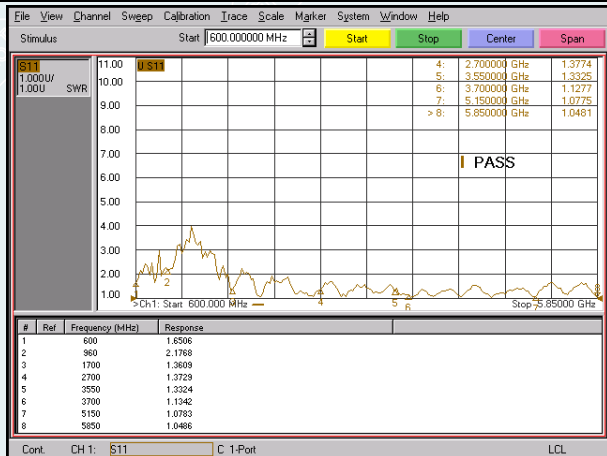


Fig.8-39 Test record four 22# (CELL-1)

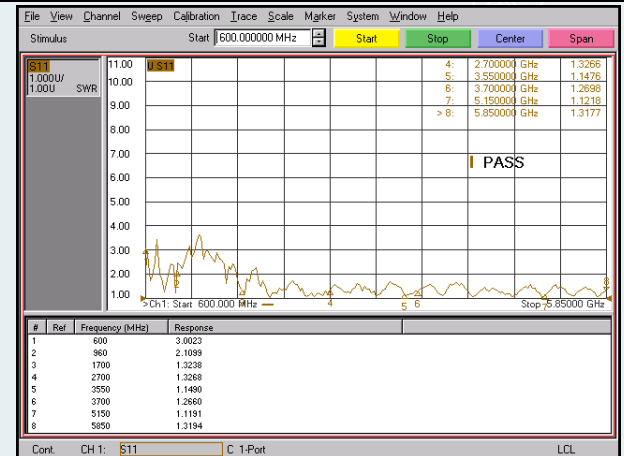


Fig.8-40 Test record four 22# (CELL-2)

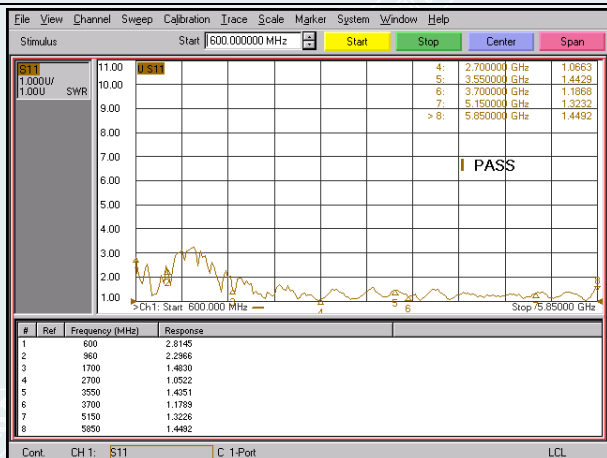


Fig.8-41 Test record four 22# (CELL-3)

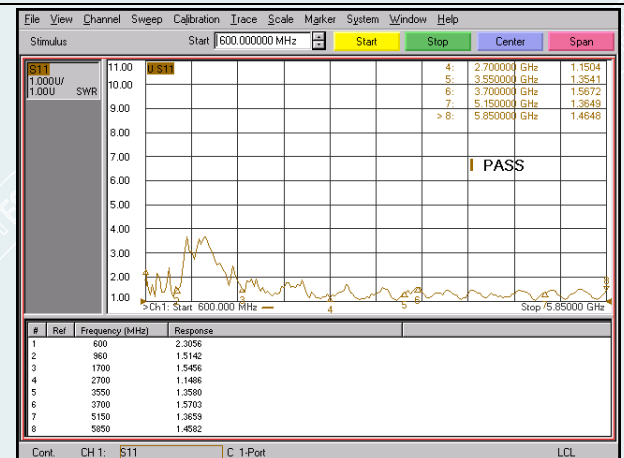


Fig.8-42 Test record four 22# (CELL-4)

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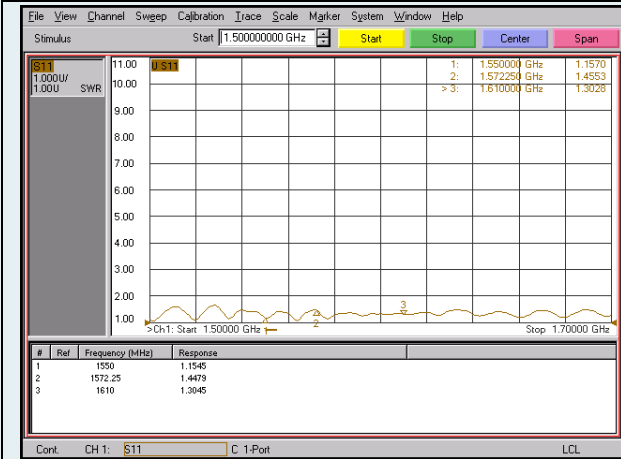


Fig.8-43 Test record five 22# (GPS)

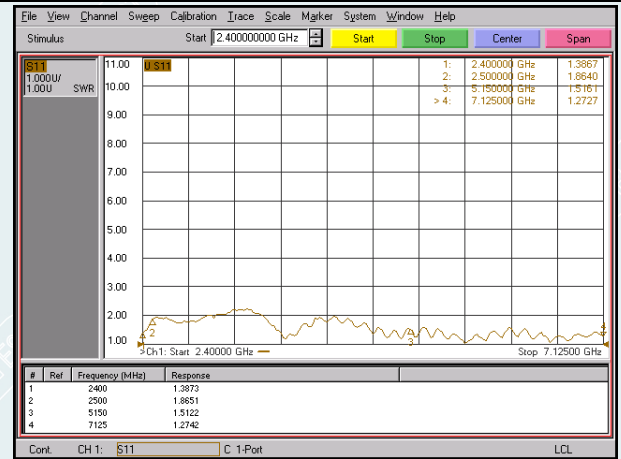


Fig.8-44 Test record five 22# (WIFI-1)

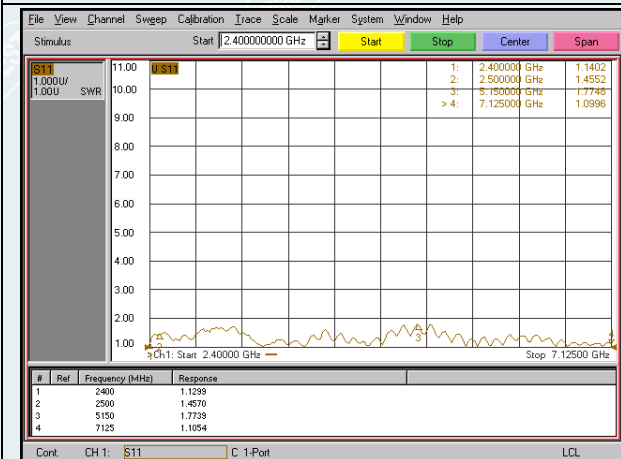


Fig.8-45 Test record five 22# (WIFI-2)

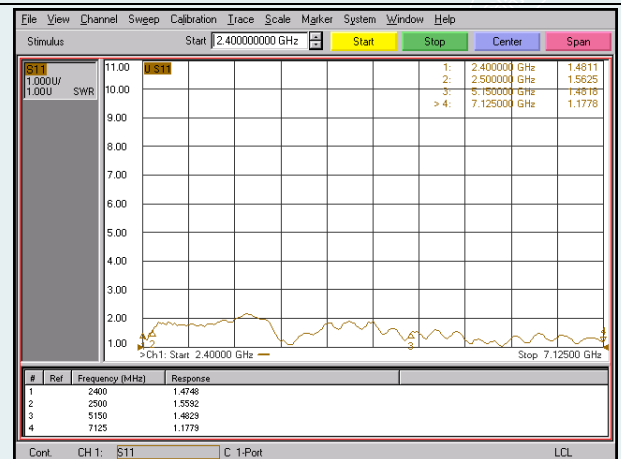


Fig.8-46 Test record five 22# (WIFI-3)

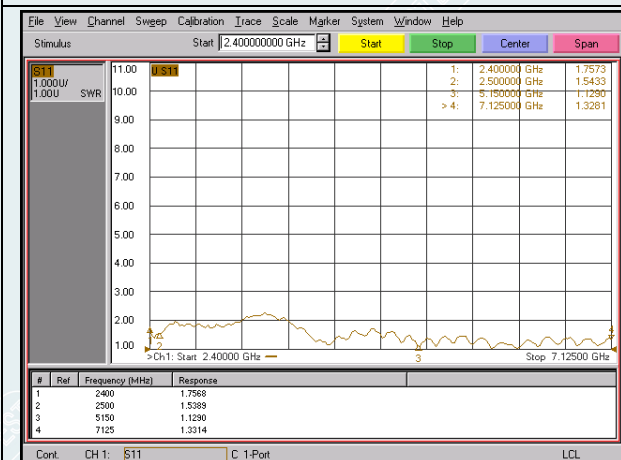


Fig.8-47 Test record five 22# (WIFI-4)

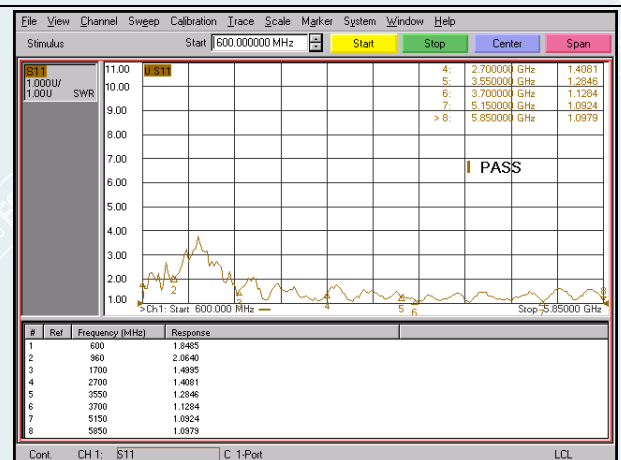


Fig.8-48 Test record five 22# (CELL-1)

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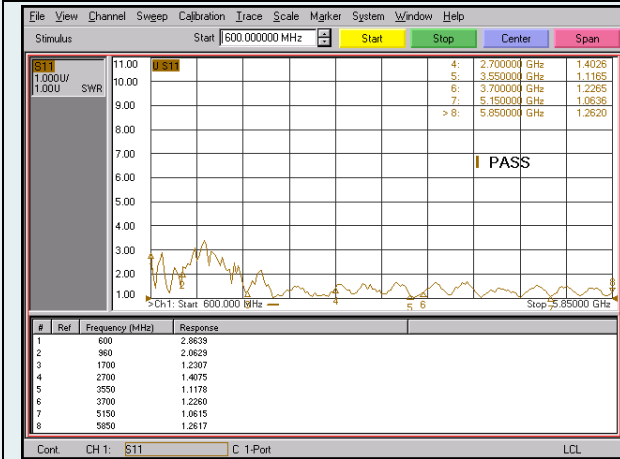


Fig.8-49 Test record five 22# (CELL-2)

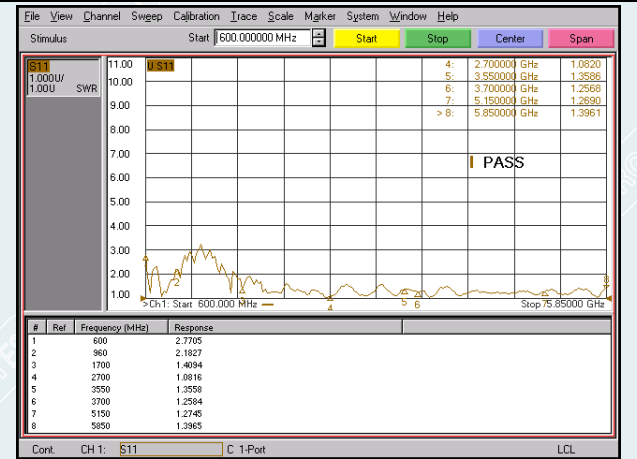


Fig.8-50 Test record five 22# (CELL-3)

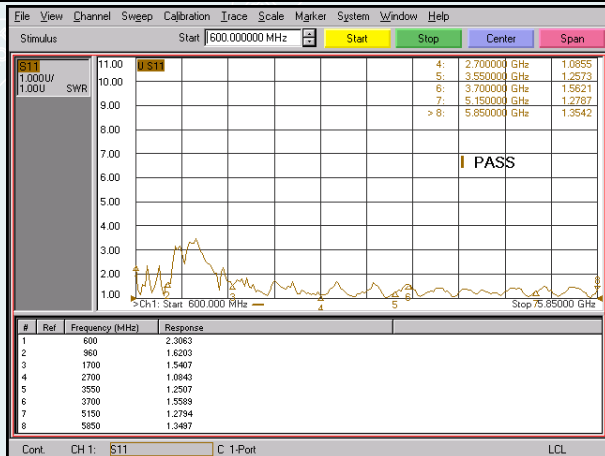


Fig.8-51 Test record five 22# (CELL-4)

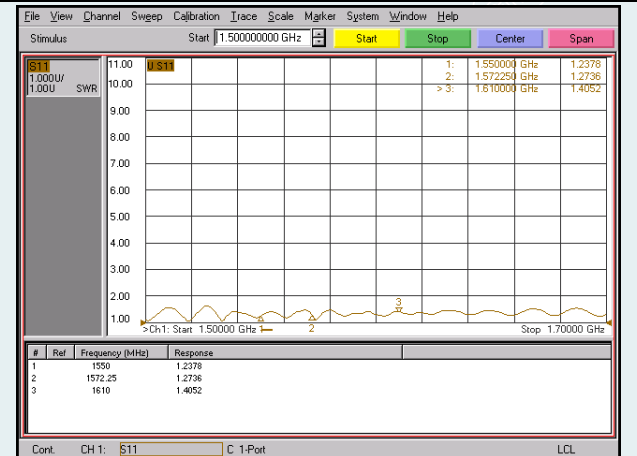


Fig.8-52 Test record one 23# (GPS)

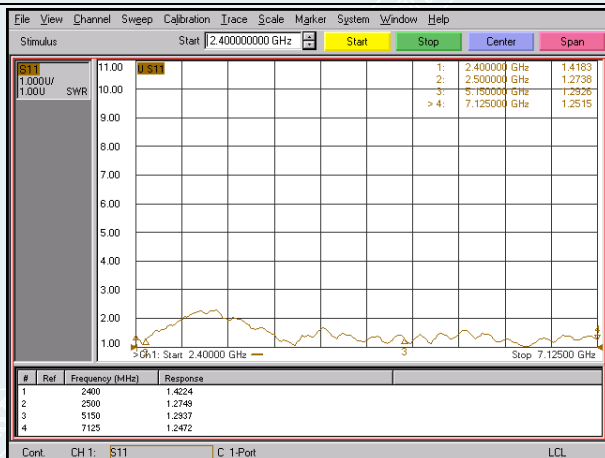


Fig.8-53 Test record one 23# (WIFI-1)

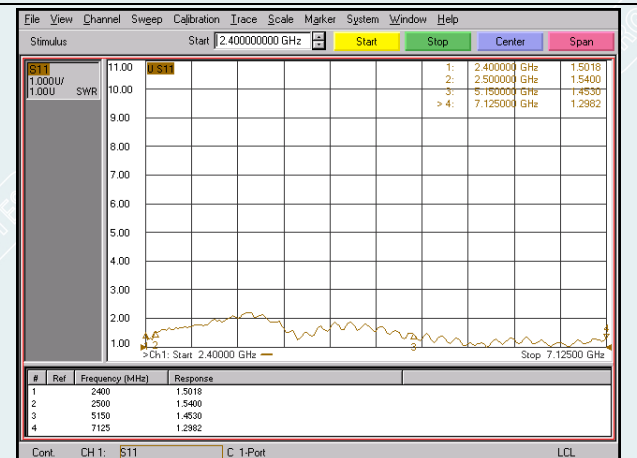


Fig.8-54 Test record one 23# (WIFI-2)

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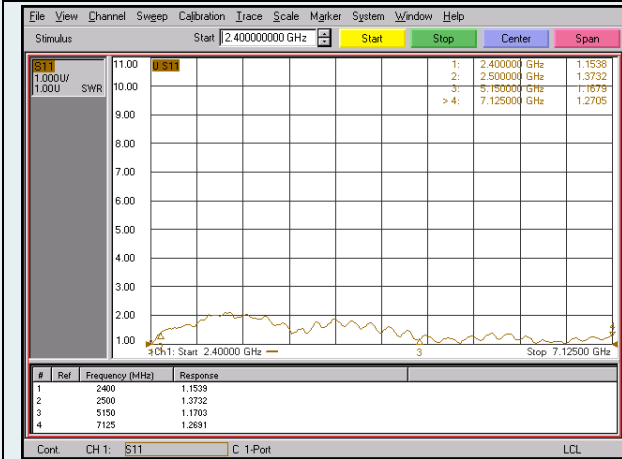


Fig.8-55 Test record one 23# (WIFI-3)

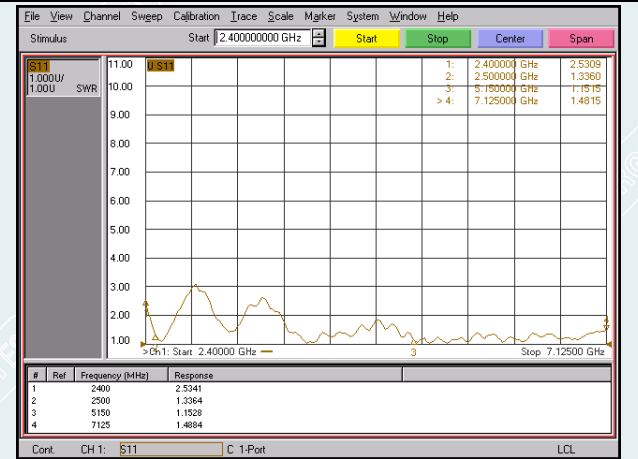


Fig.8-56 Test record one 23# (WIFI-4)

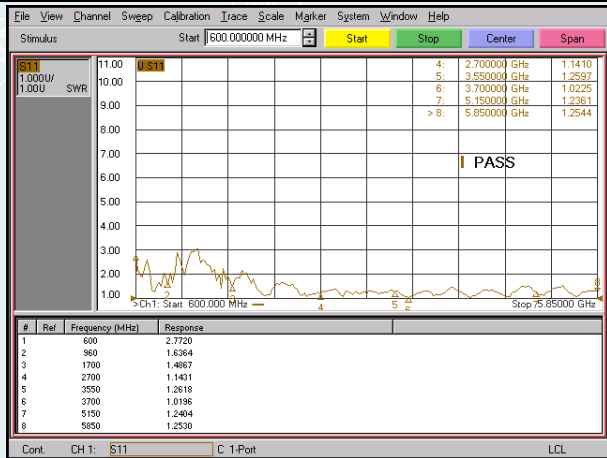


Fig.8-57 Test record one 23# (CELL-1)

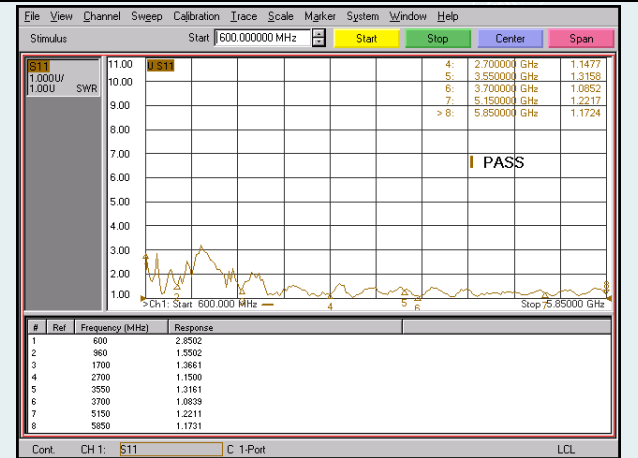


Fig.8-58 Test record one 23# (CELL-2)

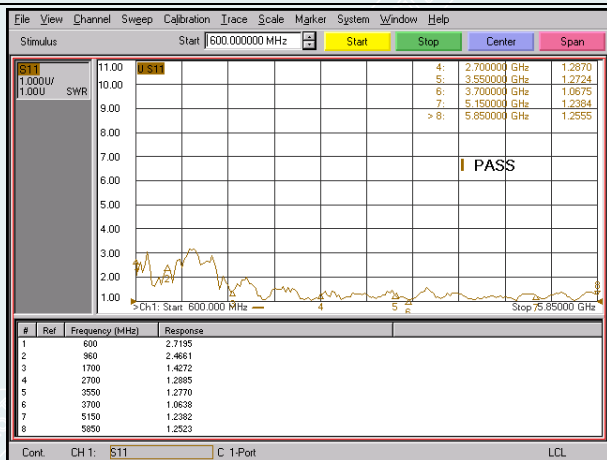


Fig.8-59 Test record one 23# (CELL-3)

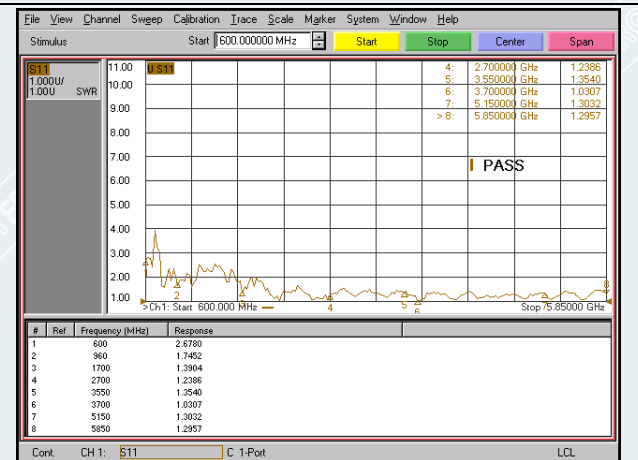


Fig.8-60 Test record one 23# (CELL-4)

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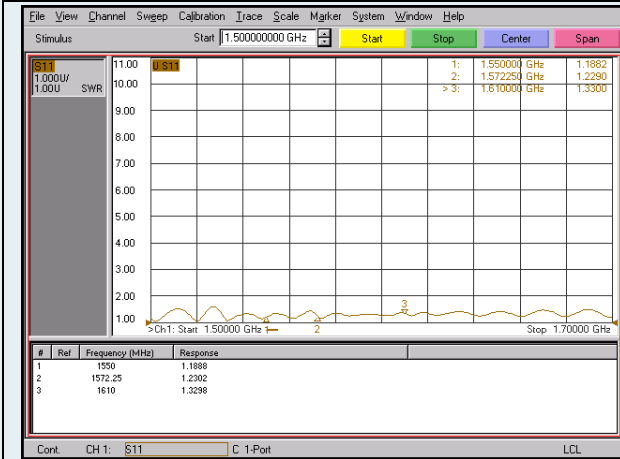


Fig.8-61 Test record two 23# (GPS)

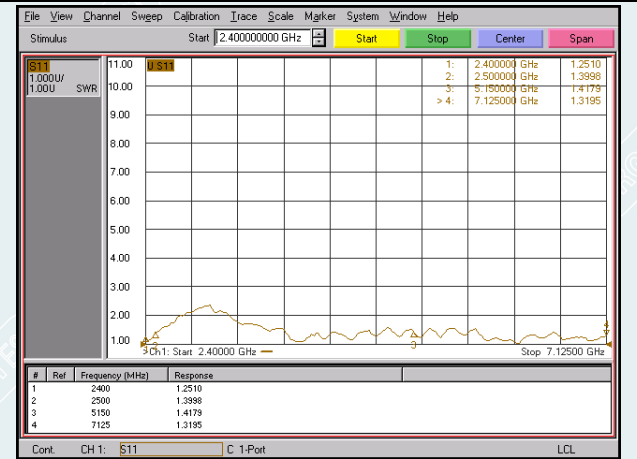


Fig.8-62 Test record two 23# (WIFI-1)

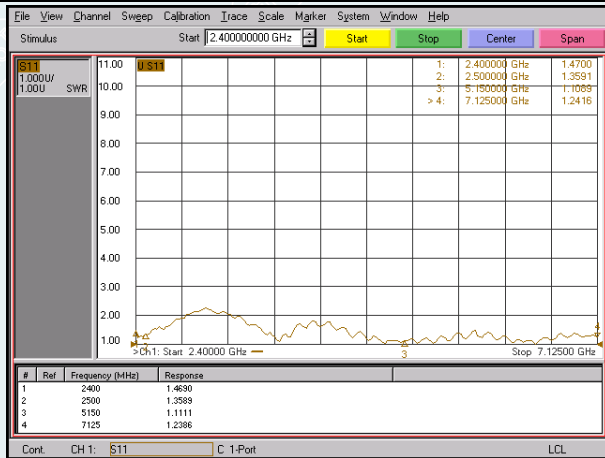


Fig.8-63 Test record two 23# (WIFI-2)

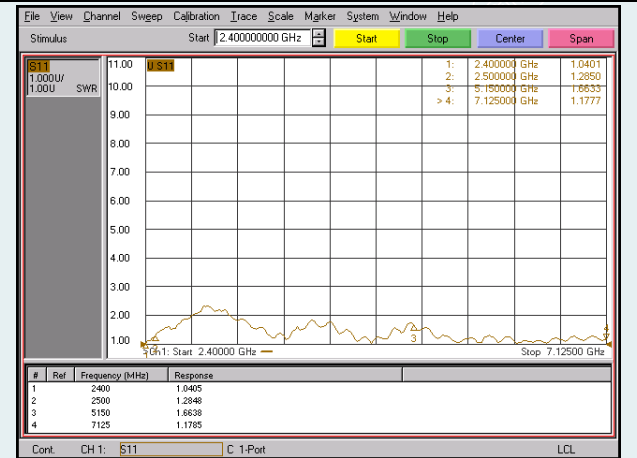


Fig.8-64 Test record two 23# (WIFI-3)

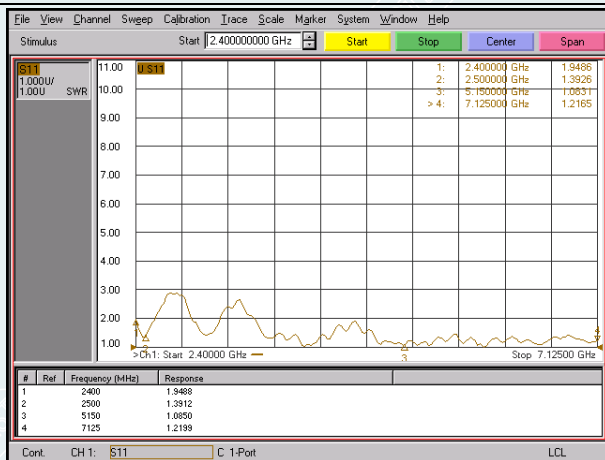


Fig.8-65 Test record two 23# (WIFI-4)

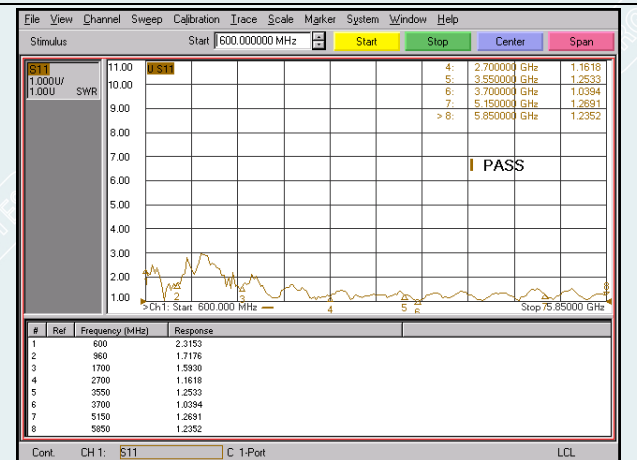


Fig.8-66 Test record two 23# (CELL-1)

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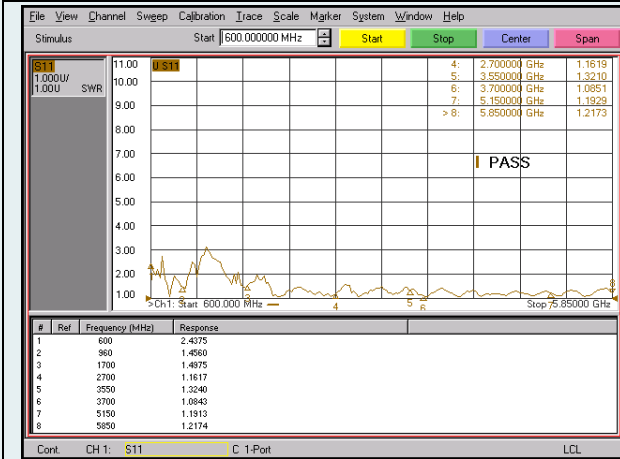


Fig.8-67 Test record two 23# (CELL-2)



Fig.8-68 Test record two 23# (CELL-3)

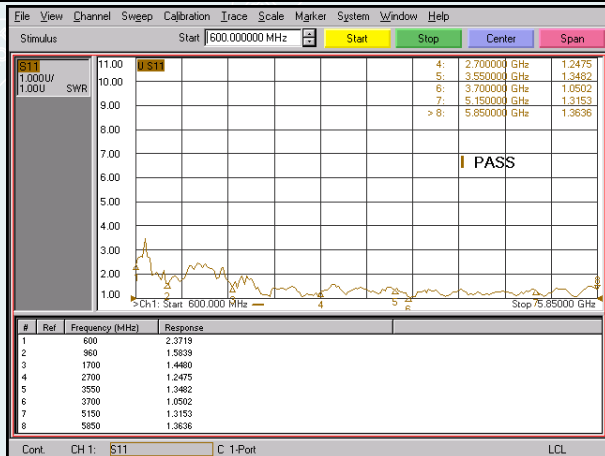


Fig.8-69 Test record two 23# (CELL-4)

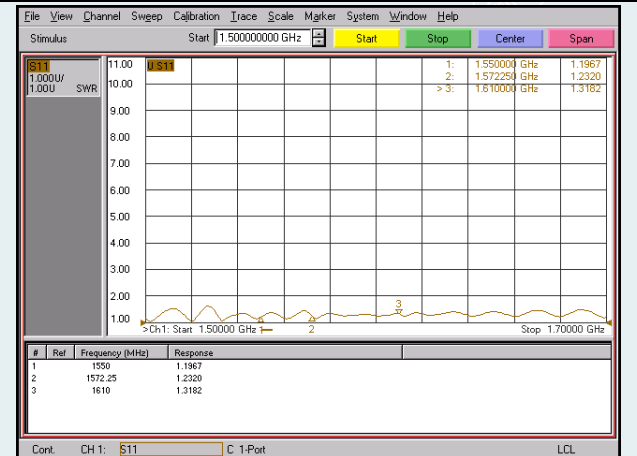


Fig.8-70 Test record three 23# (GPS)

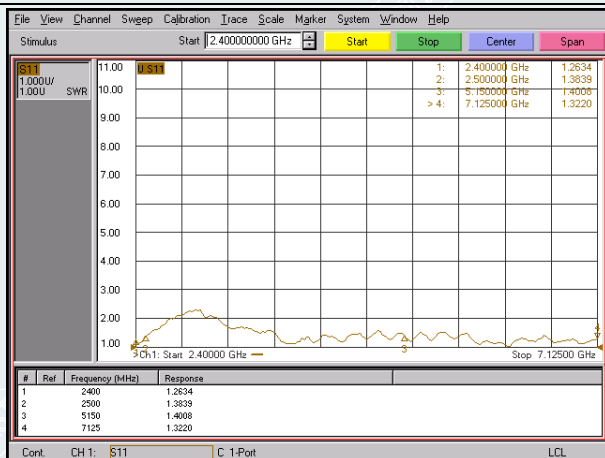


Fig.8-71 Test record three 23# (WIFI-1)

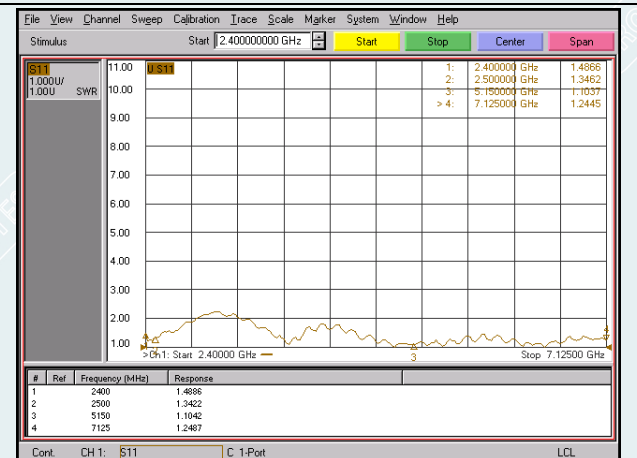


Fig.8-72 Test record three 23# (WIFI-2)

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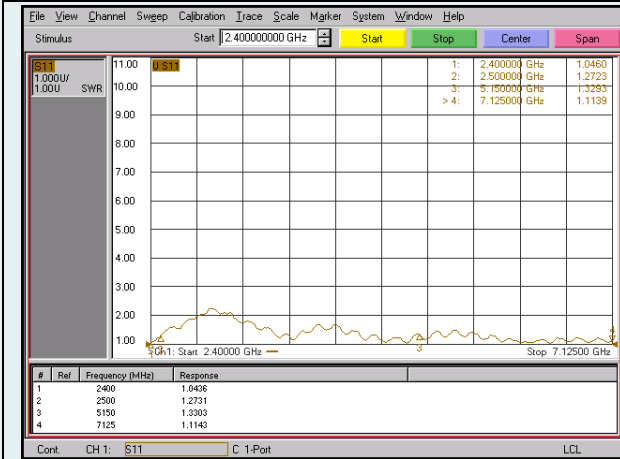


Fig.8-73 Test record three 23# (WIFI-3)

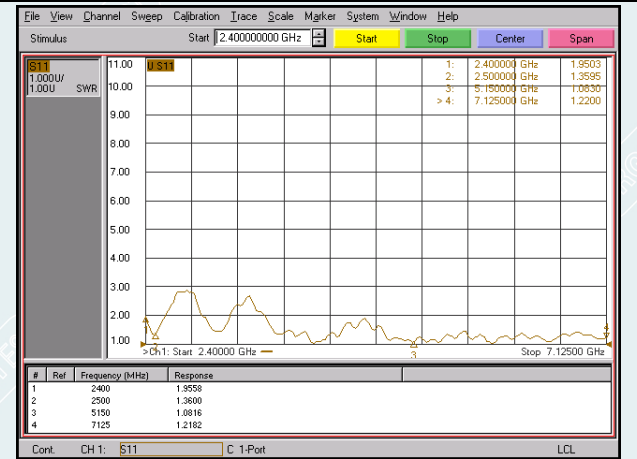


Fig.8-74 Test record three 23# (WIFI-4)

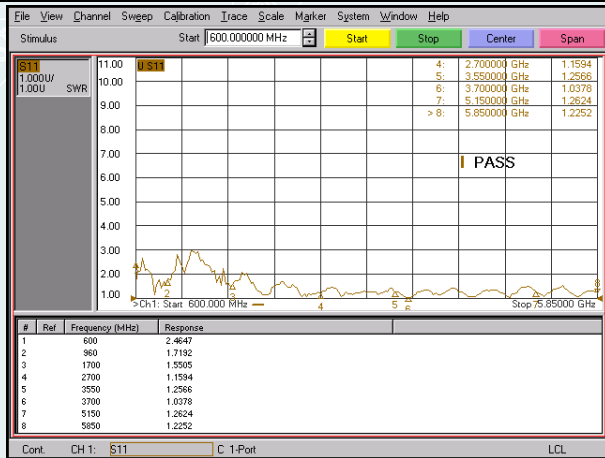


Fig.8-75 Test record three 23# (CELL-1)

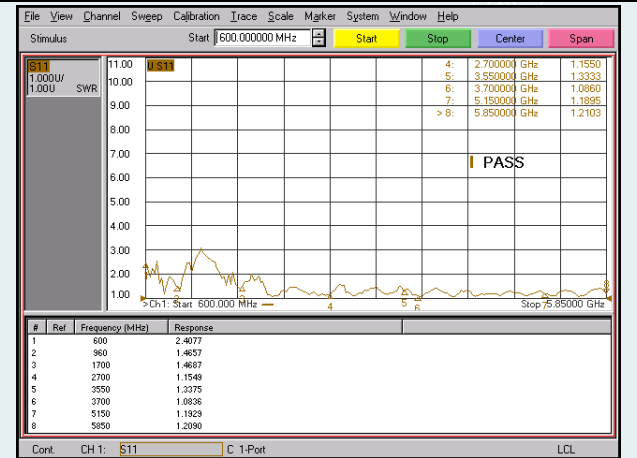


Fig.8-76 Test record three 23# (CELL-2)

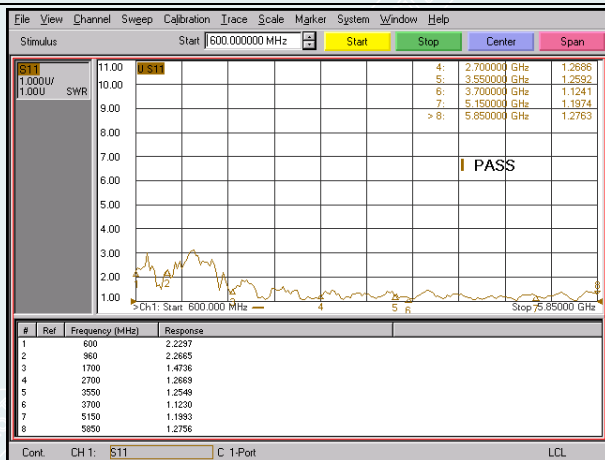


Fig.8-77 Test record three 23# (CELL-3)

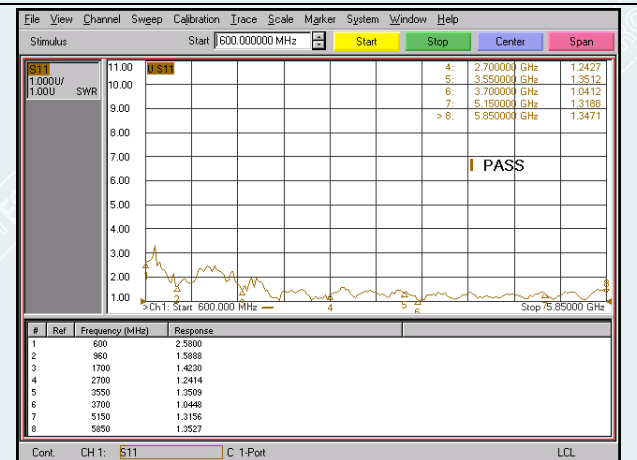


Fig.8-78 Test record three 23# (CELL-4)

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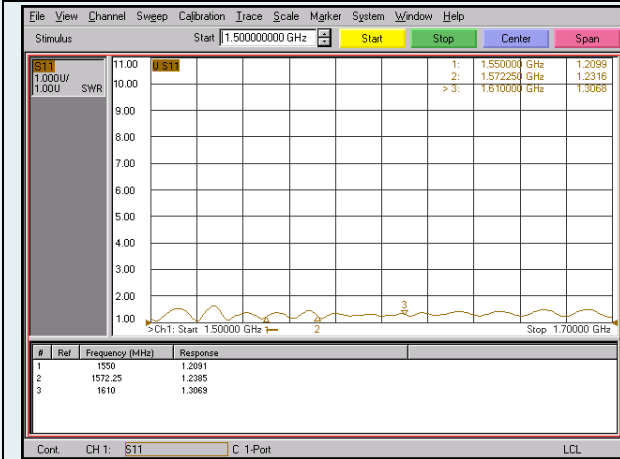


Fig.8-79 Test record four 23# (GPS)

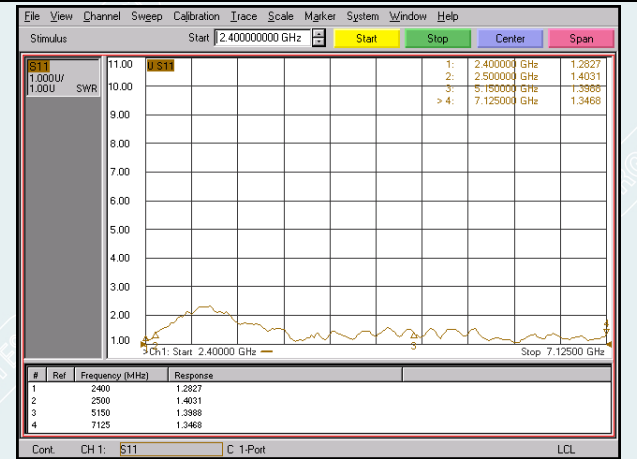


Fig.8-80 Test record four 23# (WIFI-1)

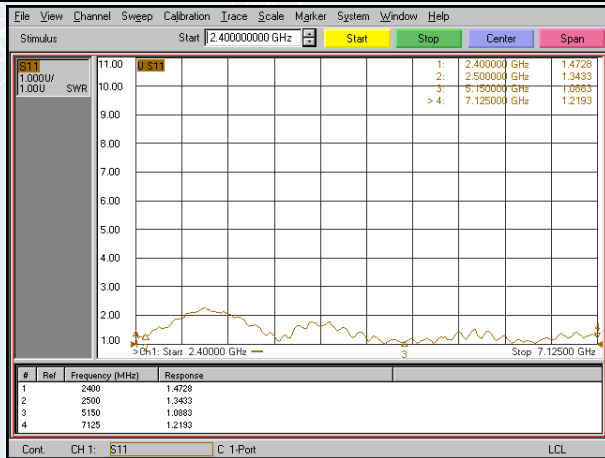


Fig.8-81 Test record four 23# (WIFI-2)

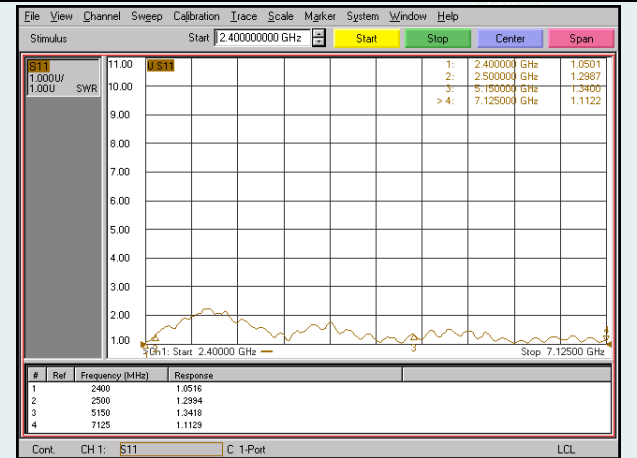


Fig.8-82 Test record four 23# (WIFI-3)

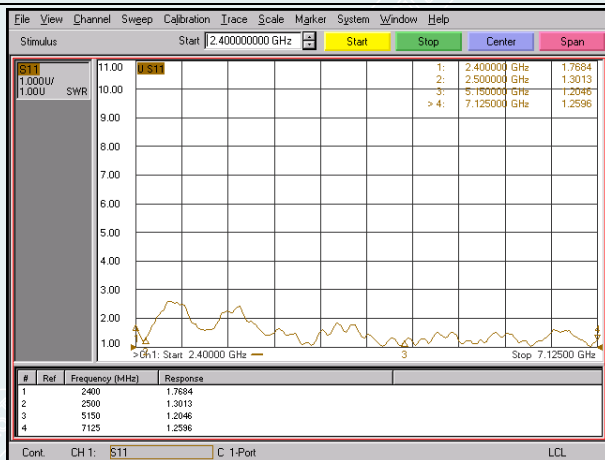


Fig.8-83 Test record four 23# (WIFI-4)

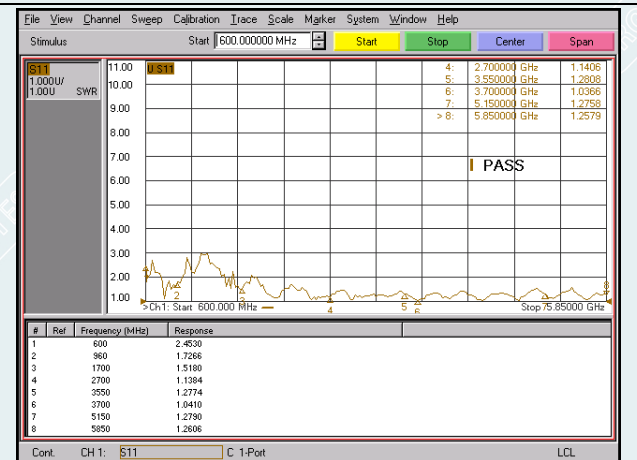


Fig.8-84 Test record four 23# (CELL-1)

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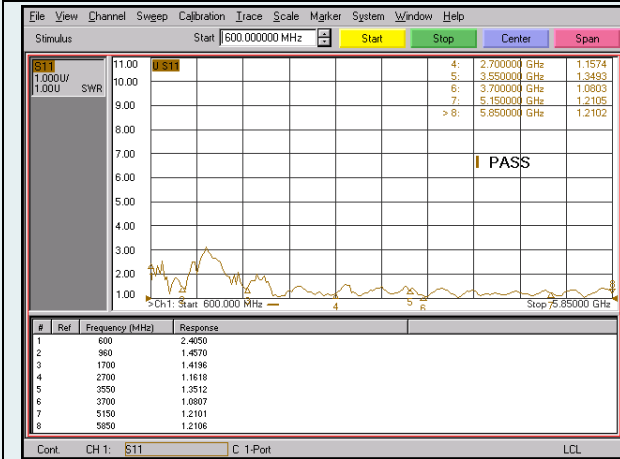


Fig.8-85 Test record four 23# (CELL-2)



Fig.8-86 Test record four 23# (CELL-3)

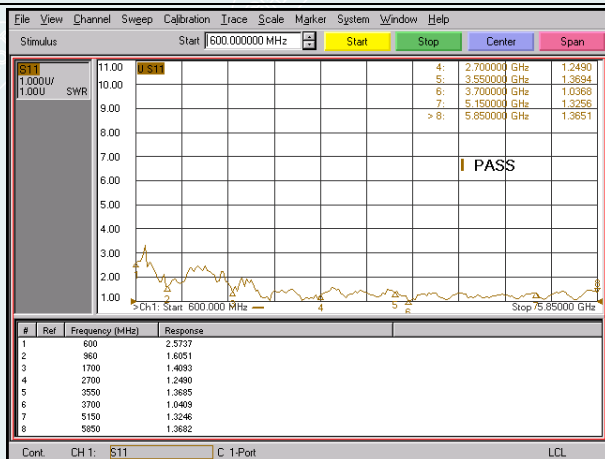


Fig.8-87 Test record four 23# (CELL-4)

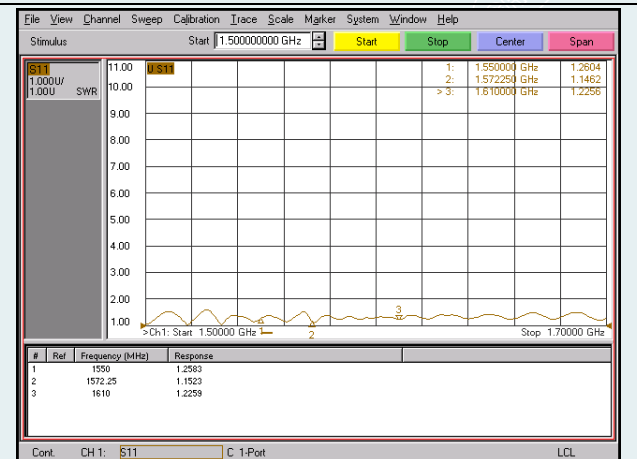


Fig.8-88 Test record five 23# (GPS)

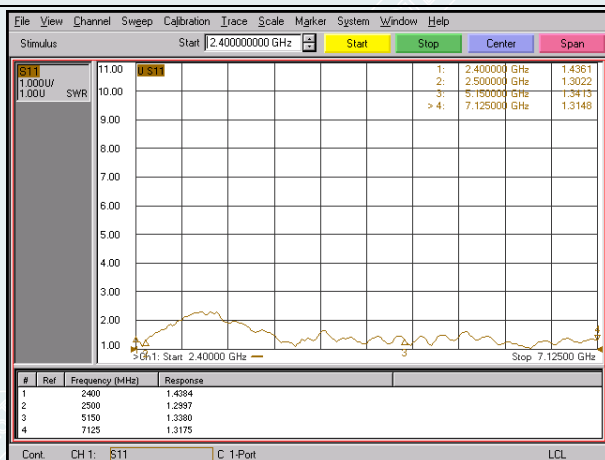


Fig.8-89 Test record five 23# (WIFI-1)

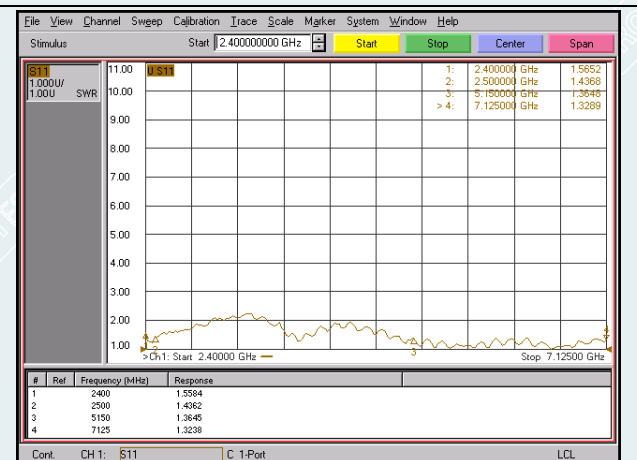


Fig.8-90 Test record five 23# (WIFI-2)

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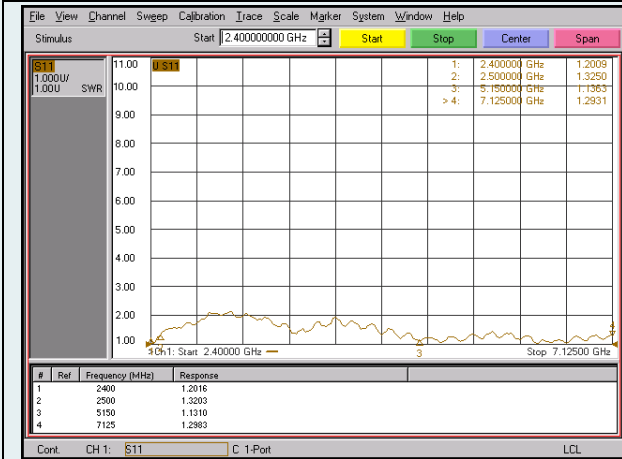


Fig.8-91 Test record five 23# (WIFI-3)

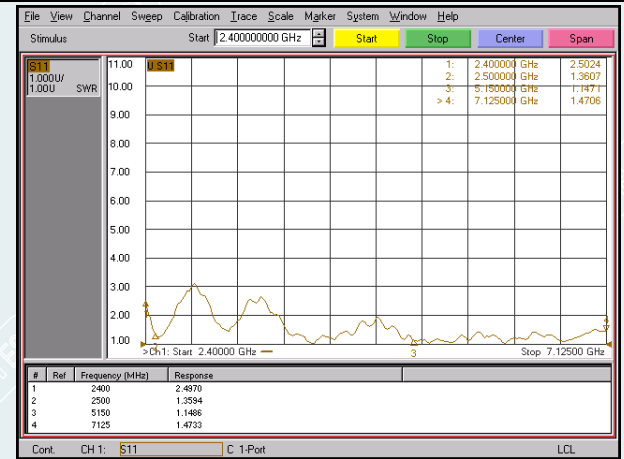


Fig.8-92 Test record five 23# (WIFI-4)

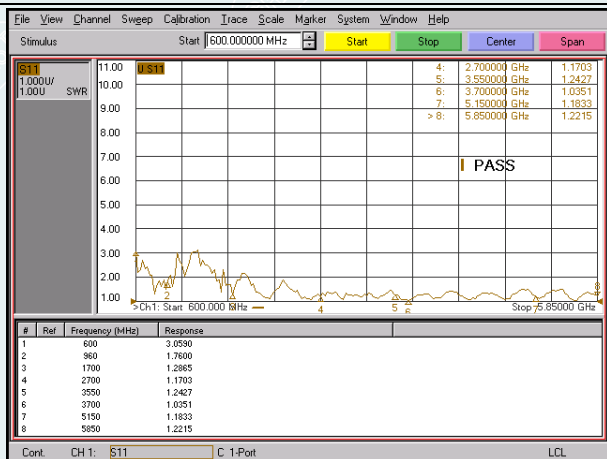


Fig.8-93 Test record five 23# (CELL-1)

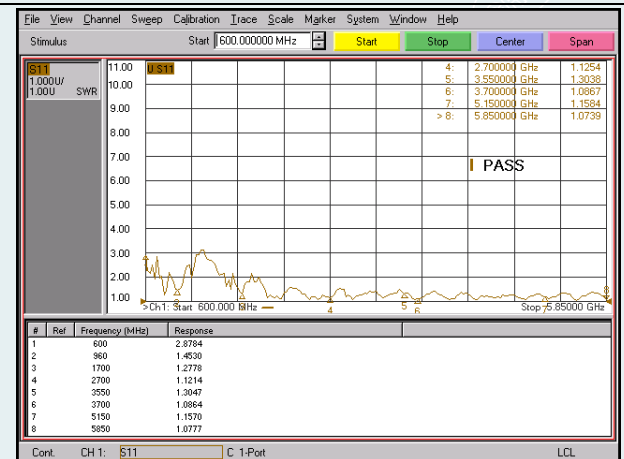


Fig.8-94 Test record five 23# (CELL-2)

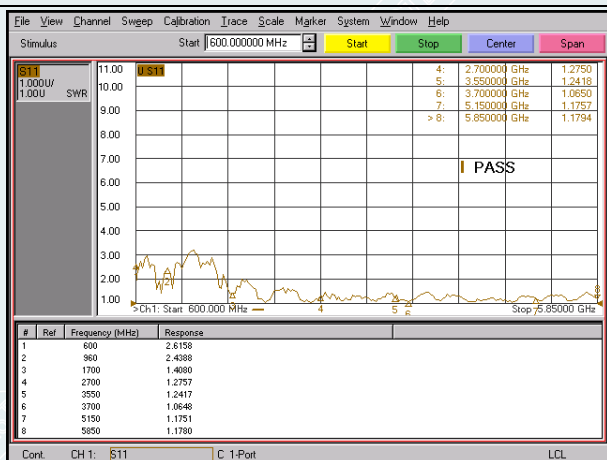


Fig.8-95 Test record five 23# (CELL-3)

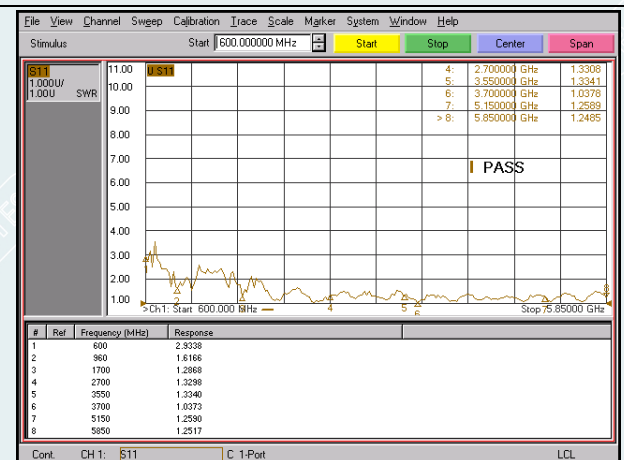


Fig.8-96 Test record five 23# (CELL-4)

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9 Test equipments

List of instruments for testing equipment					
No.	Testing item	Equipment	Type	Serial No.	Calibration valid date
1	IP6X	Dust chamber	QCT200C	180258	2020-02-25~2021-02-24
		IP4X probe	LX-1204	JLX2016G101350	2020-06-26~2020-06-25
2	IPX7	Water tank	/	886474	2019-08-28~2020-08-27
		Steel straightedge	(0~1500) mm	/	/
3	Operational temperature test	Rapid temperature change test chamber	ECS7100-15T	1702Z024	2019-10-14~2020-10-13
		Paperless Recorder	GP10	S5VB14884	2020-04-07~2021-04-06
		Network Analyzer	N5230A	90304090	2020-06-01~2021-05-31
		DC power supply	PS-303D	EX-40001	2020-06-01~2021-05-31
4	Temperature Shock	Rapid humidification temperature change type freezing test machine	ETS1000-70W-G	2017070102	2019-10-14~2020-10-13
5	Unpackaged Drop	Standard single wing drop test stand	TG-6301-AS1	201904018	2020-04-27~2021-04-26
6	Temperature - Humidity	2 cubic high and low temperature damp heat test chamber	EC7200	1706Z089	2019-10-15~2020-10-14
7	Shock	Impact table	Y52200-1/ZP	188001	2019-10-14~2020-10-13
		Transducer	357B03	LW55795	2019-11-26~2020-11-25
8	Vibration	Electromagnetic vibration table	DC-4000-40	191204012	2020-04-23~2021-04-22
		Transducer	357B03	LW55795	2019-11-26~2020-11-25
		Transducer	357B03	LW55886	2019-11-26~2020-11-25
		Transducer	357B03	LW55960	2019-11-26~2020-11-25

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