

Prüfbericht-Nr.: <i>Test report no.:</i>	CN247171 003	Auftrags-Nr.: <i>Order no.:</i>	168492002	Seite 1 von 23 Page 1 of 23
Kunden-Referenz-Nr.: <i>Client reference no.:</i>	N/A	Auftragsdatum: <i>Order date:</i>	2024-07-01	
Auftraggeber: <i>Client:</i>	Harman International Industries, Incorporated 8500 Balboa Blvd, Northridge, California, 91329, United States			
Prüfgegenstand: <i>Test item:</i>	LEGEND 700 HEAD UNIT			
Bezeichnung / Typ-Nr.: <i>Identification / Type no.:</i>	JBLLEGEND700 (Trademark: JBL)			
Auftrags-Inhalt: <i>Order content:</i>	Test Report			
Prüfgrundlage: <i>Test specification:</i>	CFR47 FCC Part 15: Subpart E Section 15.407	RSS-247-Issue 3 August 2023		
	CFR47 FCC Part 15: Subpart C Section 15.209	RSS-Gen Issue 5 March 2019		
Wareneingangsdatum: <i>Date of sample receipt:</i>	2024-07-08	Refer to photos document		
Prüfmuster-Nr.: <i>Test sample no.:</i>	A003797988 006			
Prüfzeitraum: <i>Testing period:</i>	2024-07-08 - 2024-07-19			
Ort der Prüfung: <i>Place of testing:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüflaboratorium: <i>Testing laboratory:</i>	TÜV Rheinland (Shenzhen) Co., Ltd.			
Prüfergebnis*: <i>Test result*:</i>	Pass			
geprüft von: <i>tested by:</i>	genehmigt von: <i>authorized by:</i>			
Datum: <i>Date:</i> 2024-09-12	Ausstellungsdatum: <i>Issue date:</i> 2024-09-12			
Stellung / Position:	Sachverständige(r)/Expert	Stellung / Position:	Sachverständige(r)/Expert	
Sonstiges / <i>Other:</i>	FCC ID: APILEGEND700 IC: 6132A-LEGEND700 HVIN: JBLLEGEND700			
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>	Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>			
* Legende:	P(ass) = entspricht o.g. Prüfgrundlage(n)	F(ail) = entspricht nicht o.g. Prüfgrundlage(n)	N/A = nicht anwendbar	N/T = nicht getestet
* Legend:	P(ass) = passed a.m. test specification(s)	F(ail) = failed a.m. test specification(s)	N/A = not applicable	N/T = not tested
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>				

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Anmerkungen
Remarks

1	Alle eingesetzten Prüfmittel waren zum angegebenen Prüfzeitraum gemäß eines festgelegten Kalibrierungsprogramms unseres Prüfhauses kalibriert. Sie entsprechen den in den Prüfprogrammen hinterlegten Anforderungen. Die Rückverfolgbarkeit der eingesetzten Prüfmittel ist durch die Einhaltung der Regelungen unseres Managementsystems gegeben. Detaillierte Informationen bezüglich Prüfkonditionen, Prüfequipment und Messunsicherheiten sind im Prüflabor vorhanden und können auf Wunsch bereitgestellt werden. <i>The equipment used during the specified testing period was calibrated according to our test laboratory calibration program. The equipment fulfils the requirements included in the relevant standards. The traceability of the test equipment used is ensured by compliance with the regulations of our management system. Detailed information regarding test conditions, equipment and measurement uncertainty is available in the test laboratory and could be provided on request.</i>
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3	Prüfklausel mit der Note * wurden an qualifizierte Unterauftragnehmer vergeben und sind unter der jeweiligen Prüfklausel des Berichts beschrieben. Abweichungen von Prüfspezifikation(en) oder Kundenanforderungen sind in der jeweiligen Prüfklausel im Bericht aufgeführt. <i>Test clauses with remark of * are subcontracted to qualified subcontractors and described under the respective test clause in the report. Deviations of testing specification(s) or customer requirements are listed in specific test clause in the report.</i>
4	Die Entscheidungsregel für Konformitätserklärungen basierend auf numerischen Messergebnissen in diesem Prüfbericht basiert auf der "Null-Grenzwert-Regel" und der "Einfachen Akzeptanz" gemäß ILAC G8:2019 und IEC Guide 115:2021, es sei denn, in der auf Seite 1 dieses Berichts genannten angewandten Norm ist etwas anderes festgelegt oder vom Kunden gewünscht. Dies bedeutet, dass die Messunsicherheit nicht berücksichtigt wird und daher auch nicht im Prüfbericht angegeben wird. Zu weiteren Informationen bezüglich des Risikos durch diese Entscheidungsregel siehe ILAC G8:2019. <i>The decision rule for statements of conformity, based on numerical measurement results, in this test report is based on the "Zero Guard Band Rule" and "Simple Acceptance" in accordance with ILAC G8:2019 and IEC Guide 115:2021, unless otherwise specified in the applied standard mentioned on Page 1 of this report or requested by the customer. This means that measurement uncertainty is not taken in account and hence also not declared in the test report. For additional information to the resulting risk based of this decision rule please refer to ILAC G8:2019.</i>

Test Summary

5.1.1 ANTENNA REQUIREMENT

RESULT: Pass

5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER

RESULT: Pass

5.1.3 CONDUCTED POWER SPECTRAL DENSITY

RESULT: Pass

5.1.4 FREQUENCY STABILITY

RESULT: Pass

5.1.5 26dB BANDWIDTH AND 99% BANDWIDTH

RESULT: Pass

5.1.6 6dB BANDWIDTH

RESULT: Pass

5.1.7 RADIATED SPURIOUS EMISSION

RESULT: Pass

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1 General Remarks

1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix A: Test Results of 5GHz Wi-Fi

Appendix B: Photographs of the Test Set-up

2 Test Sites

2.1 Test Facilities

TÜV Rheinland (Shenzhen) Co., Ltd.

No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen 518110, Guangdong, China

FCC Accreditation Designation No.: 694916

ISED wireless device testing laboratory: 25069

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment

Radio Spectrum Testing (SRD-Tonscend)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
Power Meter	R&S	NRP2	107105	13.11.2024
Power Sensor	R&S	NRP-Z81	105677	25.07.2024
EXA Signal Analyzer, Multi-touch	Keysight	N9010B	MY60241175	21.09.2024
MXG X-Series RF Vector Signal Generator	Keysight	N5182B	MY61250137	21.09.2024
EXG X-Series Microwave Analog Signal Generator	Keysight	N5173B	MY61250141	21.09.2024
DC Power Supply	Keysight	E3642A	MY61276100	21.09.2024
Wireless Connectivity Tester	R&S	CMW270	102505	21.09.2024
Power Control Unit	Tonscend	JS0806-4ADC	N/A	21.09.2024
Automation Control Unit	Tonscend	JS0806-2	21C8060396	21.09.2024
Test Software	Tonscend	JS1120-3	N/A	N/A
Control PC	Lenovo	TianYi510S-071MB	Y LX23JMF	N/A
Unwanted Emission Testing (TS9975)				
Equipment	Manufacturer	Model	Serial No.	Cal. until
EMI Test Receiver	R&S	ESR 7	102021	25.07.2024
Signal Analyzer	R&S	FSV 40	101439	25.07.2024
System Controller Interface	R&S	SCI-100	S10010038	N/A
Filterbank	R&S	Wlan	100759	25.07.2024
OSP	R&S	OSP 120	102040	N/A
Pre-amplifier	R&S	SCU08F1	08320031	25.07.2024
Amplifier	R&S	SCU-18F	180070	25.07.2024
Amplifier	R&S	SCU40A	100475	25.07.2024
Trilog Broadband	Schwarzbeck	VULB 9162	193	06.08.2024

Antenna (30 MHz - 7 GHz)				
Double-Ridged Antenna (1 -18 GHz)	ETS-LINDGREN	3117	00218717	06.08.2024
Wideband Ridged Horn Antenna (18- 40 GHz)	Steatite	QMS-00880	19067	27.08.2024
Active Loop Antenna	Schwarzbeck	FMZB 1513	302	06.08.2024
Test software	R&S	EMC32 (V10.60.10)	N/A	N/A
Control PC	Dell	OptiPlex 7050	36NV9P2	N/A

2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table.

Table 2: Measurement Uncertainty

Parameter	Uncertainty (k=2)
RF output power, conducted	± 0.99 dB
Occupied Channel Bandwidth	± 2.08 %
RF power density, conducted	± 0.99 dB
Unwanted Emissions, conducted	± 0.89 dB
All emissions, radiated	±4.17 dB

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & B of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) Co., Ltd. File for certification follow-up purposes.

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2.7 Status of Facility Used for Testing

The TÜV Rheinland (Shenzhen) Co., Ltd. Test facility located at No.362, Huanguan Middle Road, Songyuansha Community, Guanhu Subdistrict, Longhua District, Shenzhen 518110, Guangdong, China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

3 General Product Information

3.1 Product Function and Intended Use

The product is LEGEND 700 HEAD UNIT, which supports Bluetooth, 2.4GHz Wi-Fi, 5GHz Wi-Fi, GPS, AM and FM technologies.

This report is for Bluetooth 5GHz Wi-Fi operation only.

For details refer to the User Manual, Technical Description and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Information of EUT	Value
Kind of Equipment:	LEGEND 700 HEAD UNIT
Type Designation:	JBLLEGEND700
Trademark:	JBL
FCC ID:	APILEGEND700
IC:	6132A-LEGEND700
HVIN:	JBLLEGEND700
Operating Voltage:	12Vdc, 9A
Operating Temperature Range:	0 °C ~ +70 °C
Technical Specification of 5GHz Wi-Fi	
Frequency Band:	5150-5250MHz, 5725-5850MHz
Operating Frequency:	5180-5240MHz, 5745-5825MHz
Type of Modulation:	OFDM(BPSK/QPSK/16QAM/64QAM/256QAM)
Channel Number:	5180-5240MHz, 7CHs, 802.11 a/n20/n40/ac20/ac40/ac80 5745-5825MHz, 8CHs, 802.11 a/n20/n40/ac20/ac40/ac80
Channel Separation:	20MHz, 40MHz, 80MHz
Antenna Type:	FPC Antenna
Antenna Number:	1Tx1Rx
Antenna Gain:	6.0 dBi

Table 4: RF Channel and Frequency of 5GHz Wi-Fi

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

U-NII-3					
20MHz Bandwidth		40MHz Bandwidth		80MHz Bandwidth	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	151	5755	155	5775
153	5765	159	5795		
157	5785				
161	5805				
165	5825				

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, 5GHz Wi-Fi wireless transmitting mode
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, Normal Operation
- C. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

- Application Form
- ID Label and Location Info
- User Manual
- Operation Description

4 Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

Radio Spectrum: The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

Emission: The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All tests were performed according to the procedures in ANSI C63.10: 2013.

According to clause 3.1, all tests were performed on model JBLLEGEND700 in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 5: List of Accessories and Auxiliary Equipment

Description	Manufacturer	Model	S/N
Laptop	Lenovo	T480	PF-16A6N8

4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

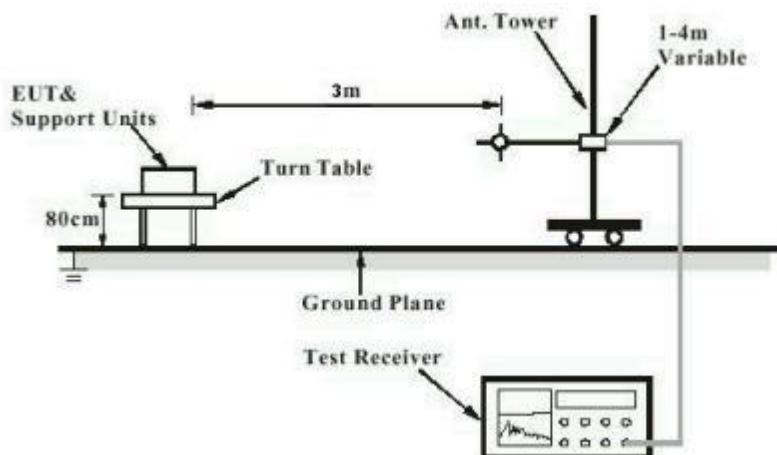


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

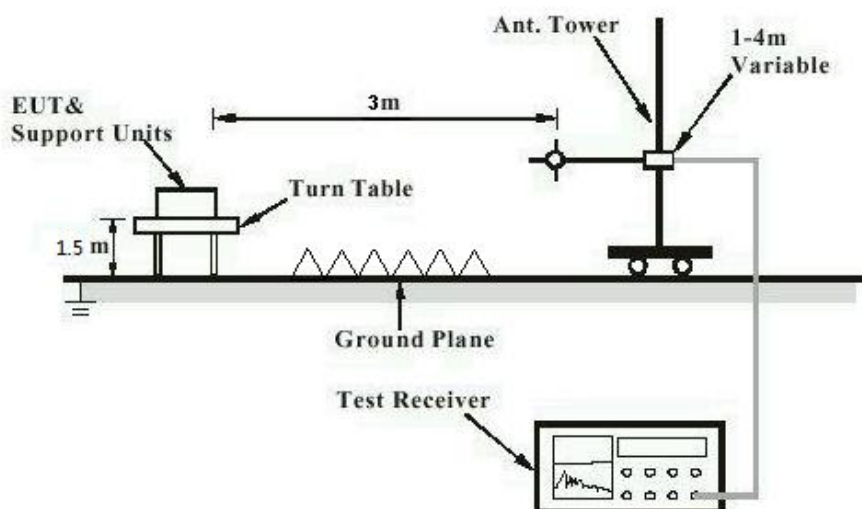
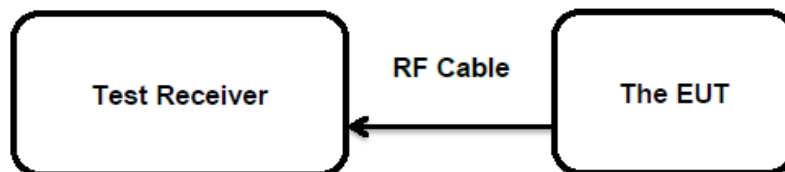


Diagram of Measurement Configuration for Conducted Transmitter Measurement



5 Test Results

5.1 Transmitter Requirement & Test Suites

5.1.1 Antenna Requirement

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.203

According to the manufacturer declared, the EUT have a FPC antenna, the maximum uncorrelated antenna gain of antenna is 6.0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement.

Therefore, the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

5.1.2 Maximum Peak Conducted Output Power

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(a)(1)&(3) RSS-247 clause 6.2
Basic standard	: ANSI C63.10: 2013
Limits	: FCC: <250mW (24dBm) (5150-5250MHz) <1W (30dBm) (5725-5850MHz) IC: For OEM devices installed in vehicles, * Max e.i.r.p.<30mW (14.8dBm) (5150-5250MHz) *30 mW (14.8dBm) or 1.76 dBm + 10 log B, where B is the 99% emission bandwidth in MHz, where is lesser. Devices shall implement transmitter power control (TPC) in order to have the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW Max conducted output power <1W (30dBm) (5725-5850MHz)
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-07-08 to 2024-07-19
Input voltage	: DC 12V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 51.2 %
Atmospheric pressure	: 101 kPa

For details refer to following test result.

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5125-5250MHz:
FCC:

Test Mode	Channel	Measured Peak Power (dBm)	Limit (dBm)	Verdict
802.11a	5180	6.08	≤24	PASS
	5200	5.77	≤24	PASS
	5240	5.80	≤24	PASS

Test Mode	Channel	Measured Peak Power (dBm)	Limit (dBm)	Verdict
		SISO mode		
802.11n (HT20)	5180	5.65	≤24	PASS
	5200	5.53	≤24	PASS
	5240	5.53	≤24	PASS
802.11n (HT40)	5190	5.51	≤24	PASS
	5230	5.70	≤24	PASS
802.11ac20	5180	6.09	≤24	PASS
	5200	5.77	≤24	PASS
	5240	5.75	≤24	PASS
802.11ac40	5190	5.50	≤24	PASS
	5230	5.62	≤24	PASS
802.11ac80	5210	5.99	≤24	PASS

IC:

Test Mode	Channel	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	5180	12.08	≤14.8	PASS
	5200	11.77	≤14.8	PASS
	5240	11.80	≤14.8	PASS

Test Mode	Channel	EIRP (dBm)	Limit (dBm)	Verdict
		SISO mode		
802.11n (HT20)	5180	11.65	≤14.8	PASS
	5200	11.53	≤14.8	PASS
	5240	11.53	≤14.8	PASS
802.11n (HT40)	5190	11.51	≤14.8	PASS
	5230	11.70	≤14.8	PASS
802.11ac20	5180	12.09	≤14.8	PASS
	5200	11.77	≤14.8	PASS
	5240	11.75	≤14.8	PASS
802.11ac40	5190	11.50	≤14.8	PASS
	5230	11.62	≤14.8	PASS
802.11ac80	5210	11.99	≤14.8	PASS

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5725-5850MHz:

Test Mode	Channel	Measured Peak Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
802.11a	5745	5.95	11.95	≤30	PASS
	5785	5.76	11.76	≤30	PASS
	5825	5.88	11.88	≤30	PASS

Test Mode	Channel	Measured Peak Power (dBm)	EIRP (dBm)	Limit (dBm)	Verdict
		SISO mode	SISO mode		
802.11n (HT20)	5745	5.74	11.74	≤30	PASS
	5785	5.82	11.82	≤30	PASS
	5825	5.73	11.73	≤30	PASS
802.11n (HT40)	5755	5.77	11.77	≤30	PASS
	5795	5.55	11.55	≤30	PASS
802.11ac20	5745	5.90	11.90	≤30	PASS
	5785	6.02	12.02	≤30	PASS
	5825	6.09	12.09	≤30	PASS
802.11ac40	5755	5.88	11.88	≤30	PASS
	5795	5.82	11.82	≤30	PASS
802.11ac80	5775	5.67	11.67	≤30	PASS

Note:

- 1) The cable loss is taken into account in results.
- 2) Antenna gain(G): 6.0 dBi.
- 3) The device has transmitter power control (TPC) mechanism which has the capability to operate at least 3 dB below the maximum permitted e.i.r.p. of 30 mW in frequency band 5125-5250MHz

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5.1.3 Conducted Power Spectral Density

RESULT:**Pass****Test Specification**

Test standard : FCC part 15.407(a)
RSS-247 clause 6.2

Basic standard : ANSI C63.10: 2013
KDB 789033 D02 v01r03

Limits : FCC:
<11dBm/MHz (5150-5250MHz)
<30dBm/500KHz (5725-5850MHz)

IC:
e.i.r.p. spectral density <10dBm/MHz (5150-5250MHz)
<30dBm/500KHz (5725-5850MHz)

Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-07-08 to 2024-07-19

Input voltage : DC 12V

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 24.5 °C

Relative humidity : 51.2 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.4 Frequency Stability

RESULT:**Pass****Test Specification**

Test standard	: FCC Part 15.407(g) RSS-Gen Clause 6.11
Basic standard	: ANSI C63.10: 2013
Limits	: Within assigned bands
Kind of test site	: Shielded Room

Test Setup

Date of testing	: 2024-07-08 to 2024-07-19
Input voltage	: DC 12V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: 24.5 °C
Relative humidity	: 51.2 %
Atmospheric pressure	: 101 kPa

For the measurement records, refer to the appendix A.

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Page 20 of 23**5.1.5 26dB Bandwidth and 99% Bandwidth****RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.407(e)
RSS-Gen Clause 6.6
Basic standard : ANSI C63.10: 2013
Limits : N/A
Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-07-08 to 2024-07-19
Input voltage : DC 12V
Operation mode : A
Test channel : Low / Middle / High
Ambient temperature : 24.5 °C
Relative humidity : 51.2 %
Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.6 6dB Bandwidth

RESULT:**Pass****Test Specification**

Test standard : FCC Part 15.407(e)
RSS-Gen Clause 6.6

Basic standard : ANSI C63.10: 2013

Limits : At least 500KHz (5725-5850MHz)

Kind of test site : Shielded Room

Test Setup

Date of testing : 2024-07-08 to 2024-07-19

Input voltage : DC 12V

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 24.5 °C

Relative humidity : 51.2 %

Atmospheric pressure : 101 kPa

For the measurement records, refer to the appendix A.

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5.1.7 Radiated Spurious Emission

RESULT:

Pass

Test Specification

Test standard	: FCC Part 15.407(b) & FCC Part 15.205 & FCC Part 15.209 RSS-247 clause 6.2 & RSS-GEN clause 8.9 and 8.10
Basic standard	: ANSI C63.10: 2013 KDB 789033 D02 v01r03
Limits	: • For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz. • For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. • Restricted Bands meet the requirement of 15.209 limit and RSS-GEN
Kind of test site	: 3m Semi-anechoic Chamber

Test Setup

Date of testing	: 2024-07-08 to 2024-07-19
Input voltage	: DC 12V
Operation mode	: A
Test channel	: Low / Middle / High
Ambient temperature	: Refer to test result
Relative humidity	: Refer to test result
Atmospheric pressure	: 101 kPa

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix A.

6 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix B.

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Appendix A: Test Results of 5.2 / 5.8GHz Wi-Fi

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Appendix A.1: Test Results of Conducted Power Spectral Density

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.88	≤11.00	PASS
		5200	1.05	≤11.00	PASS
		5240	0.70	≤11.00	PASS
		5745	-2.02	≤30.00	PASS
		5785	-1.96	≤30.00	PASS
		5825	-1.81	≤30.00	PASS
11N20SISO	Ant1	5180	0.39	≤11.00	PASS
		5200	0.33	≤11.00	PASS
		5240	0.41	≤11.00	PASS
		5745	-2.41	≤30.00	PASS
		5785	-1.92	≤30.00	PASS
		5825	-2.23	≤30.00	PASS
11N40SISO	Ant1	5190	-2.17	≤11.00	PASS
		5230	-2.17	≤11.00	PASS
		5755	-4.37	≤30.00	PASS
		5795	-4.47	≤30.00	PASS
11AC20SISO	Ant1	5180	0.91	≤11.00	PASS
		5200	0.63	≤11.00	PASS
		5240	0.49	≤11.00	PASS
		5745	-1.80	≤30.00	PASS
		5785	-2.42	≤30.00	PASS
		5825	-1.50	≤30.00	PASS
11AC40SISO	Ant1	5190	-2.73	≤11.00	PASS
		5230	-2.95	≤11.00	PASS
		5755	-5.25	≤30.00	PASS
		5795	-4.96	≤30.00	PASS
11AC80SISO	Ant1	5210	-4.22	≤11.00	PASS
		5775	-6.14	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

3.The antenna gain is taken into account in results.

11A Ant1 5180



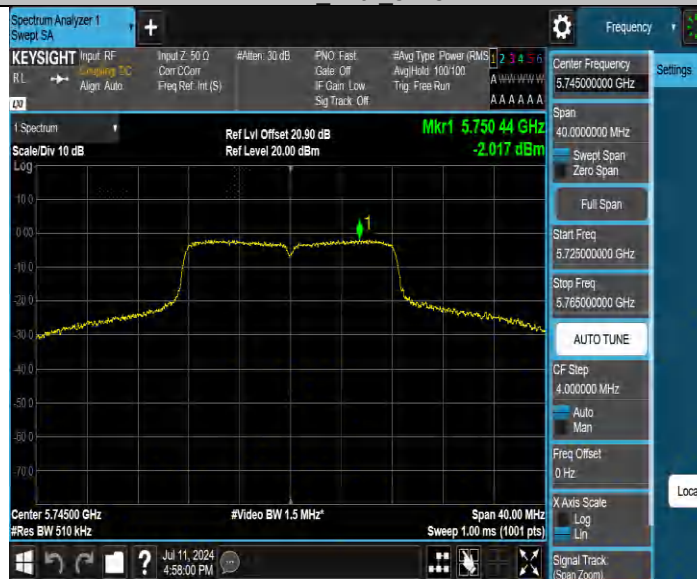
11A Ant1 5200



11A Ant1 5240



11A Ant1 5745



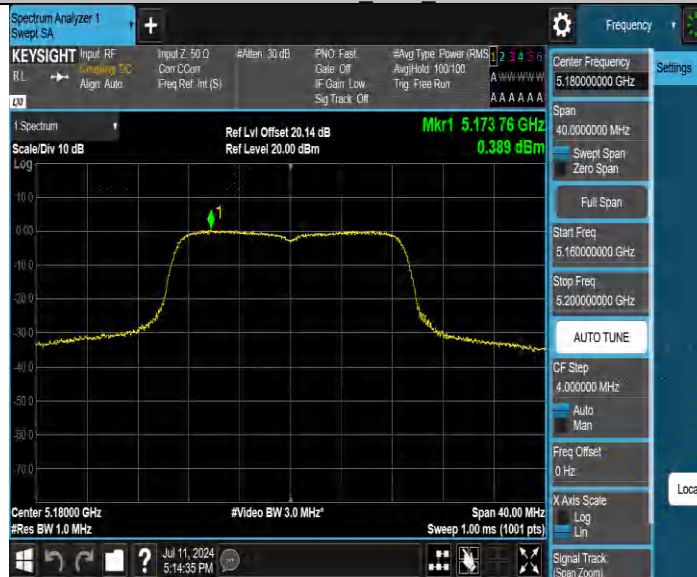
11A Ant1 5785



11A Ant1 5825



11N20SISO Ant1 5180



11N20SISO Ant1 5200



11N20SISO Ant1 5240



11N20SISO Ant1 5745



11N20SISO Ant1 5785



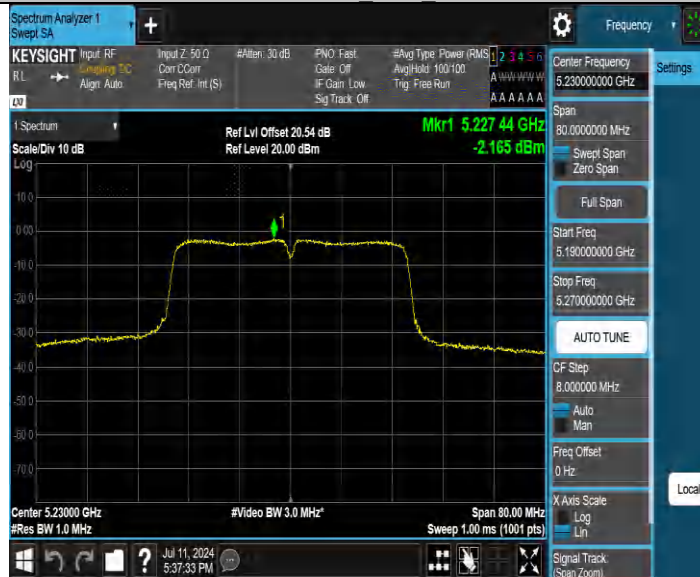
11N20SISO Ant1 5825



11N40SISO Ant1 5190



11N40SISO Ant1 5230



11N40SISO Ant1 5755



11N40SISO Ant1 5795



11AC20SISO Ant1 5180



11AC20SISO Ant1 5200





11AC20SISO Ant1 5825



11AC40SISO Ant1 5190



11AC40SISO Ant1 5230



11AC40SISO Ant1 5755



11AC40SISO Ant1 5795



11AC80SISO Ant1 5210





Appendix A.2: Test Results of Frequency Stability

Voltage								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5180	NV	NT	-15000.00	-2.895753	20	PASS
		5200	NV	NT	-14000.00	-2.692308	20	PASS
		5240	NV	NT	-16000.00	-3.053435	20	PASS
		5745	NV	NT	-18000.00	-3.133159	20	PASS
		5785	NV	NT	-17000.00	-2.938634	20	PASS
		5825	NV	NT	-18000.00	-3.090129	20	PASS
11AC40SIS O	Ant1	5190	NV	NT	-14000.00	-2.697495	20	PASS
		5230	NV	NT	-16000.00	-3.059273	20	PASS
		5755	NV	NT	-18000.00	-3.127715	20	PASS
		5795	NV	NT	-19000.00	-3.278689	20	PASS
11AC80SIS O	Ant1	5210	NV	NT	-17000.00	-3.262956	20	PASS
		5775	NV	NT	-21000.00	-3.636364	20	PASS

Temperature								
TestMode	Antenna	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11AC20SIS O	Ant1	5180	NV	0	-20000.00	-3.861004	20	PASS
			NV	70	-21000.00	-4.054054	20	PASS
		5200	NV	0	-20000.00	-3.846154	20	PASS
			NV	70	-21000.00	-4.038462	20	PASS
		5240	NV	0	-21000.00	-4.007634	20	PASS
			NV	70	-23000.00	-4.389313	20	PASS
		5745	NV	0	-23000.00	-4.003481	20	PASS
			NV	70	-24000.00	-4.177546	20	PASS
		5785	NV	0	-23000.00	-3.975799	20	PASS
			NV	70	-24000.00	-4.148660	20	PASS
		5825	NV	0	-23000.00	-3.948498	20	PASS
			NV	70	-24000.00	-4.120172	20	PASS
11AC40SIS O	Ant1	5190	NV	0	-20000.00	-3.853565	20	PASS
			NV	70	-22000.00	-4.238921	20	PASS
		5230	NV	0	-22000.00	-4.206501	20	PASS
			NV	70	-23000.00	-4.397706	20	PASS
		5755	NV	0	-23000.00	-3.996525	20	PASS
			NV	70	-24000.00	-4.170287	20	PASS
		5795	NV	0	-25000.00	-4.314064	20	PASS
			NV	70	-25000.00	-4.314064	20	PASS
11AC80SIS O	Ant1	5210	NV	0	-22000.00	-4.222649	20	PASS
			NV	70	-23000.00	-4.414587	20	PASS
		5775	NV	0	-24000.00	-4.155844	20	PASS
			NV	70	-25000.00	-4.329004	20	PASS

Appendix A.3: Test Results of 26dB Bandwidth

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.040	5168.960	5191.000	---	---
		5200	20.560	5189.680	5210.240	---	---
		5240	20.640	5229.840	5250.480	---	---
11N20SISO	Ant1	5180	20.840	5169.640	5190.480	---	---
		5200	21.240	5189.240	5210.480	---	---
		5240	20.760	5229.640	5250.400	---	---
11N40SISO	Ant1	5190	46.400	5164.800	5211.200	---	---
		5230	43.680	5206.960	5250.640	---	---
11AC20SISO	Ant1	5180	22.040	5168.720	5190.760	---	---
		5200	21.640	5189.240	5210.880	---	---
		5240	20.880	5229.600	5250.480	---	---
11AC40SISO	Ant1	5190	42.400	5168.400	5210.800	---	---
		5230	43.040	5207.600	5250.640	---	---
11AC80SISO	Ant1	5210	80.000	5169.680	5249.680	---	---

11A Ant1 5180



11A Ant1 5200



11A Ant1 5240



11N20SISO Ant1 5180



11N20SISO Ant1 5200



11N20SISO Ant1 5240



11N40SISO Ant1 5190



11N40SISO Ant1 5230



11AC20SISO Ant1 5180



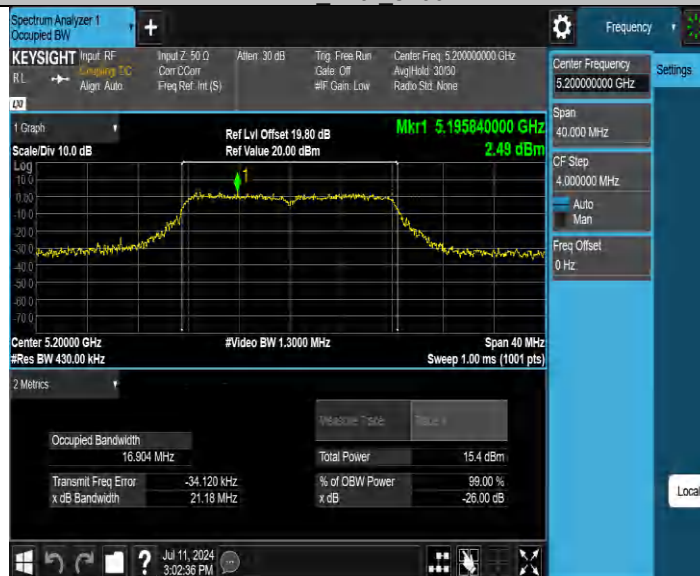




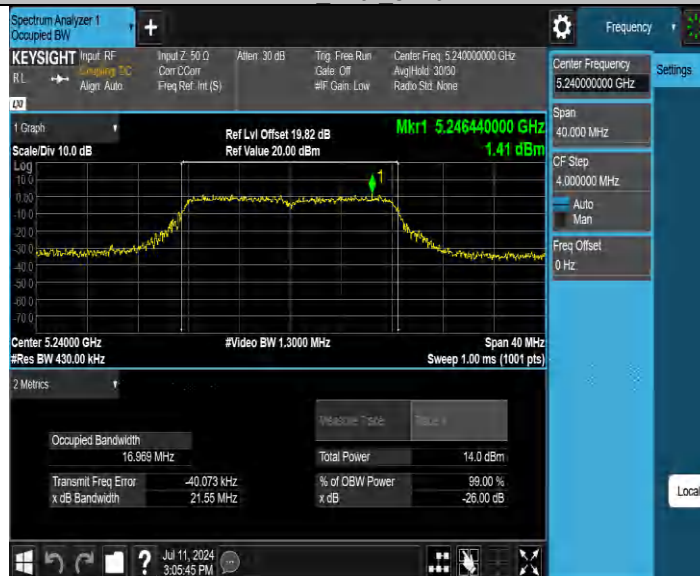
Appendix A.4: Test Results of 99% Bandwidth

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5200	16.904	5191.5139	5208.4179	---	---
		5240	16.969	5231.4754	5248.4444	---	---
		5745	17.196	5736.4167	5753.6127	---	---
		5785	17.346	5776.3030	5793.6490	---	---
		5825	17.611	5816.2293	5833.8403	---	---
11N20SISO	Ant1	5180	17.881	5171.0835	5188.9645	---	---
		5200	17.937	5191.0176	5208.9546	---	---
		5240	17.905	5231.0012	5248.9062	---	---
		5745	18.208	5735.9053	5754.1133	---	---
		5785	18.572	5775.6715	5794.2435	---	---
11N40SISO	Ant1	5825	19.710	5815.5267	5835.2367	---	---
		5190	36.396	5171.7869	5208.1829	---	---
		5230	36.404	5211.7395	5248.1435	---	---
		5755	37.090	5736.6482	5773.7382	---	---
		5795	36.876	5776.5259	5813.4019	---	---
11AC20SISO	Ant1	5180	18.071	5170.9317	5189.0027	---	---
		5200	17.918	5191.0301	5208.9481	---	---
		5240	17.936	5231.0024	5248.9384	---	---
		5745	18.219	5735.9119	5754.1309	---	---
		5785	18.268	5775.8474	5794.1154	---	---
11AC40SISO	Ant1	5825	18.712	5815.7050	5834.4170	---	---
		5190	36.412	5171.7642	5208.1762	---	---
		5230	36.358	5211.7958	5248.1538	---	---
		5755	37.038	5736.6911	5773.7291	---	---
		5795	37.392	5776.5126	5813.9046	---	---
11AC80SISO	Ant1	5210	76.016	5171.8808	5247.8968	---	---
		5775	77.092	5736.7737	5813.8657	---	---

11A Ant1 5200



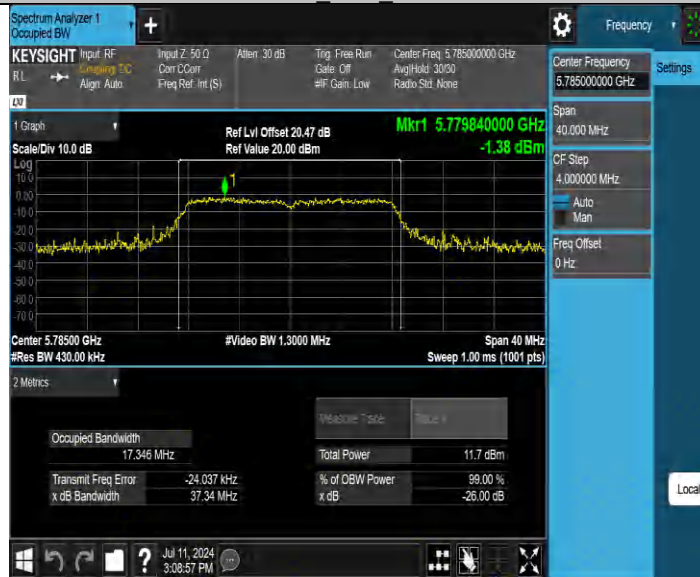
11A Ant1 5240



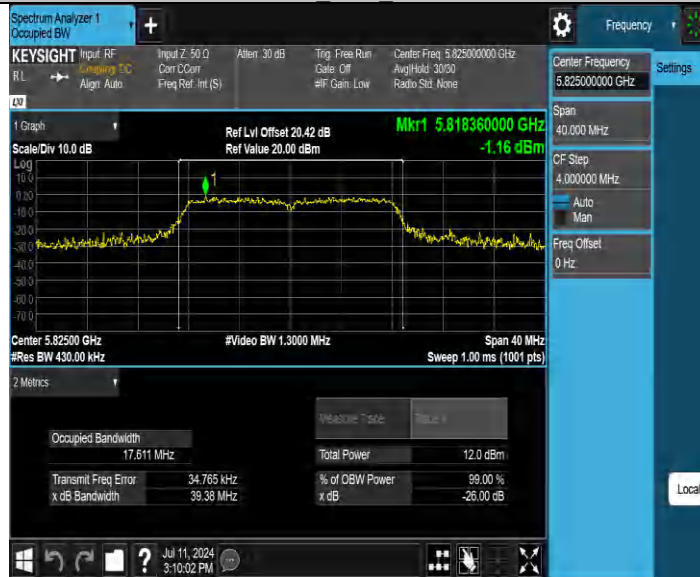
11A Ant1 5745



11A Ant1 5785



11A Ant1 5825



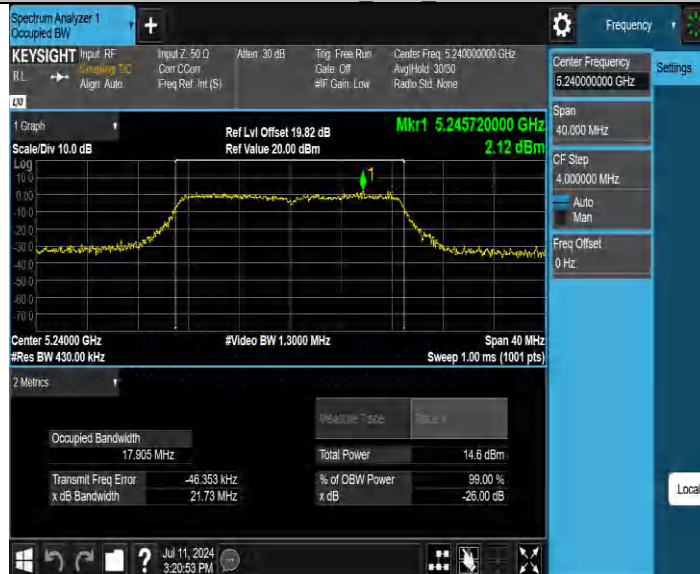
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11N20SISO Ant1 5200



11N20SISO Ant1 5240



11N20SISO Ant1 5745



11N20SISO Ant1 5785



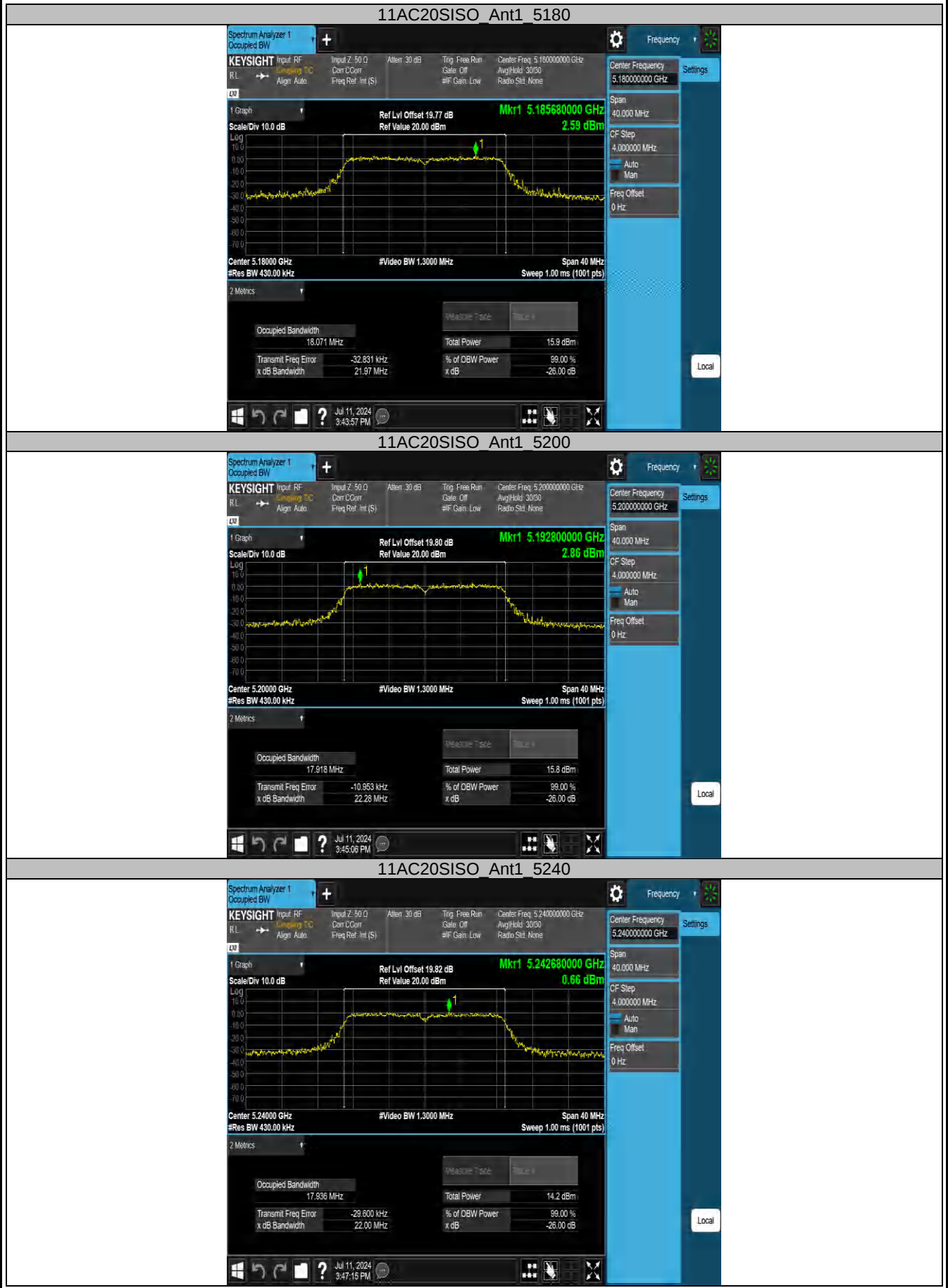
11N20SISO Ant1 5825



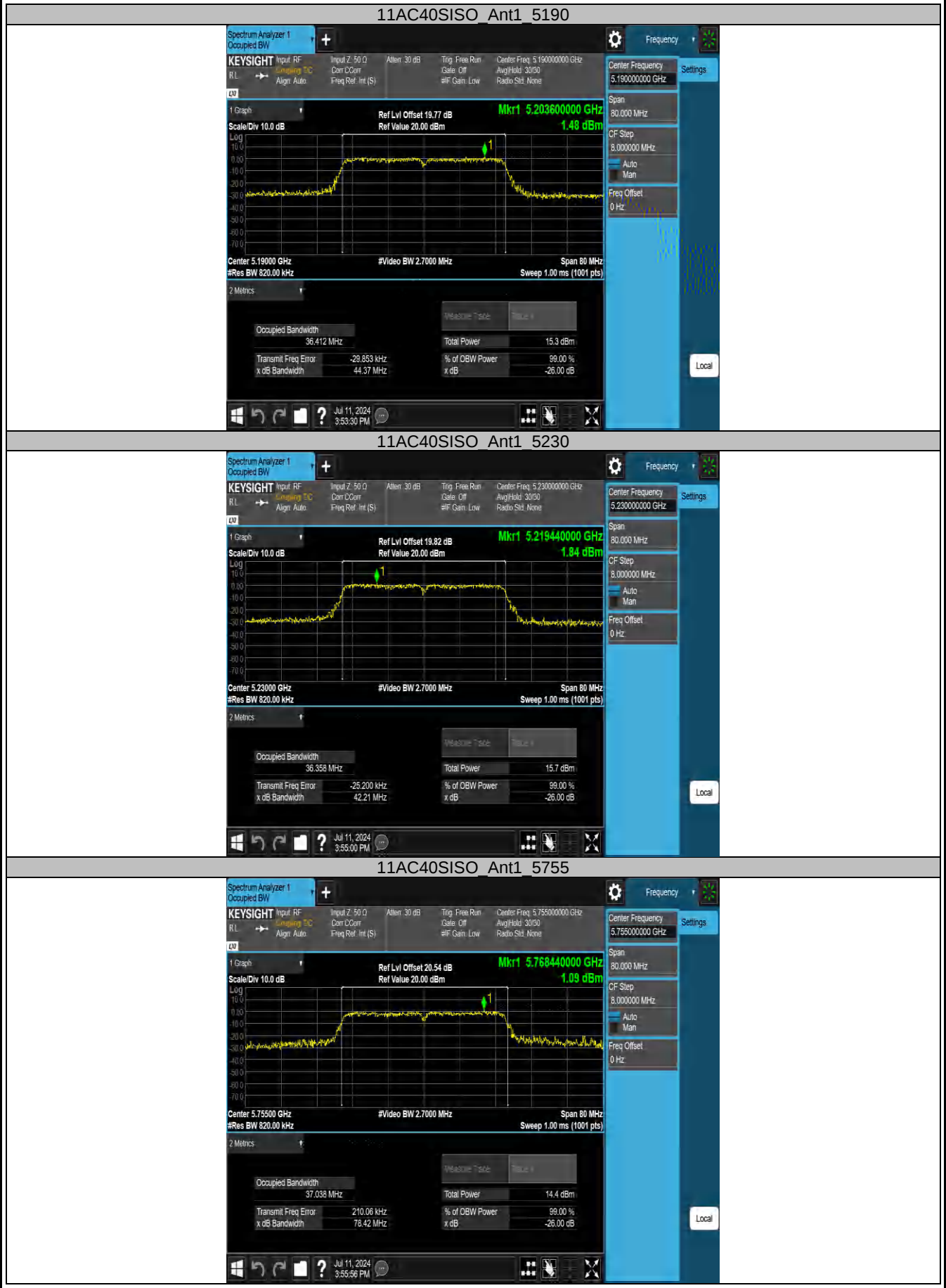
11N40SISO Ant1 5190



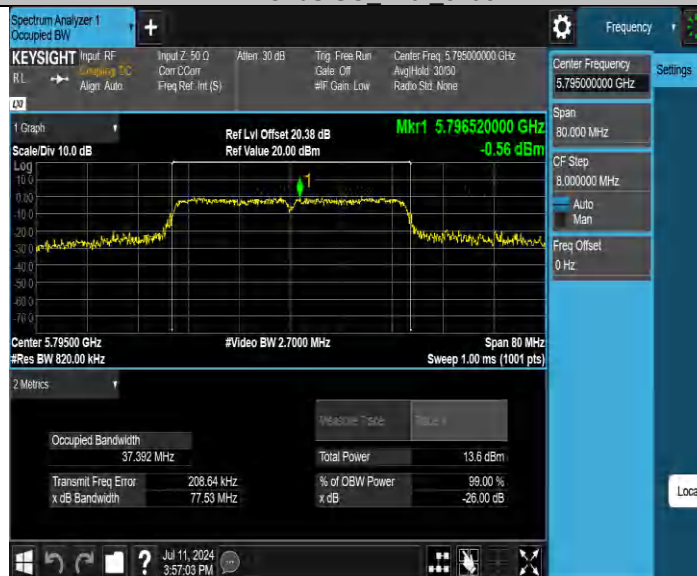




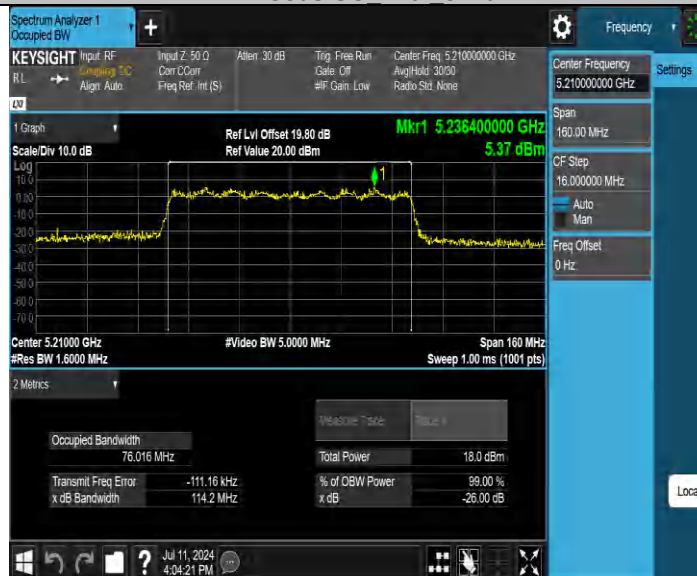




11AC40SISO Ant1 5795



11AC80SISO Ant1 5210



11AC80SISO Ant1 5775



Appendix A.5: Test Results of 6dB Bandwidth

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.360	5776.800	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.280	5736.480	5753.760	0.5	PASS
		5785	17.040	5776.480	5793.520	0.5	PASS
		5825	17.000	5816.400	5833.400	0.5	PASS
11N40SISO	Ant1	5755	35.520	5737.240	5772.760	0.5	PASS
		5795	35.760	5777.080	5812.840	0.5	PASS
11AC20SISO	Ant1	5745	17.280	5736.240	5753.520	0.5	PASS
		5785	17.080	5776.480	5793.560	0.5	PASS
		5825	17.320	5816.440	5833.760	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.800	5772.840	0.5	PASS
		5795	35.520	5777.240	5812.760	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.560	5812.600	0.5	PASS

11A Ant1 5745



11A Ant1 5785



11A Ant1 5825



11N20SISO Ant1 5745



11N20SISO Ant1 5785



11N20SISO Ant1 5825



11N40SISO Ant1 5755



11N40SISO Ant1 5795



11AC20SISO Ant1 5745





11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix A.6: Test Results of Radiated Spurious Emissions

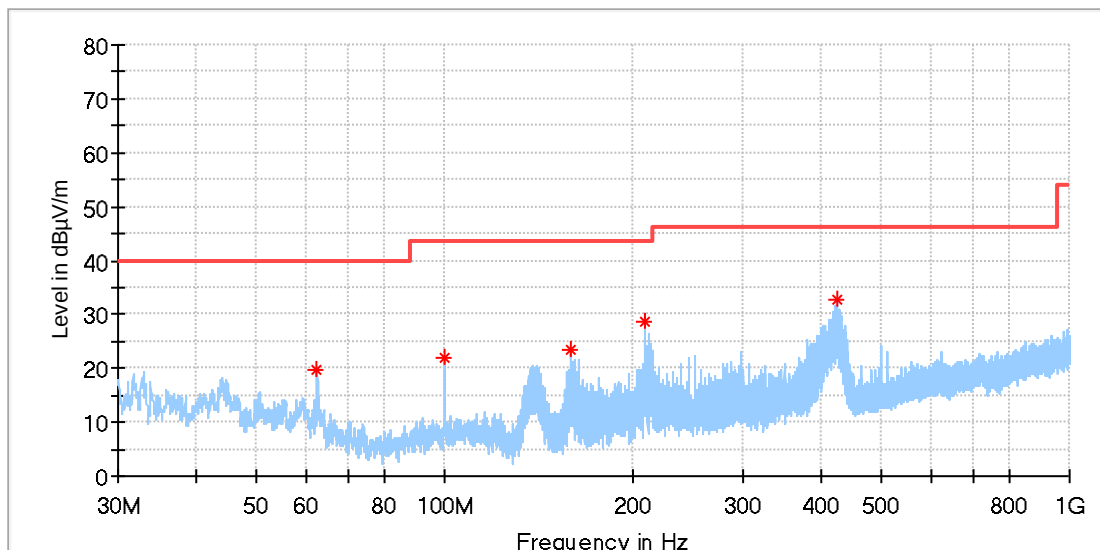
Note:

- 1) This testing was carried out on different modulations, but only the worst case was presented in this report.
- 2) Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and 18GHz - 26.5GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

30MHz - 1GHz (Worst case)

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch40
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

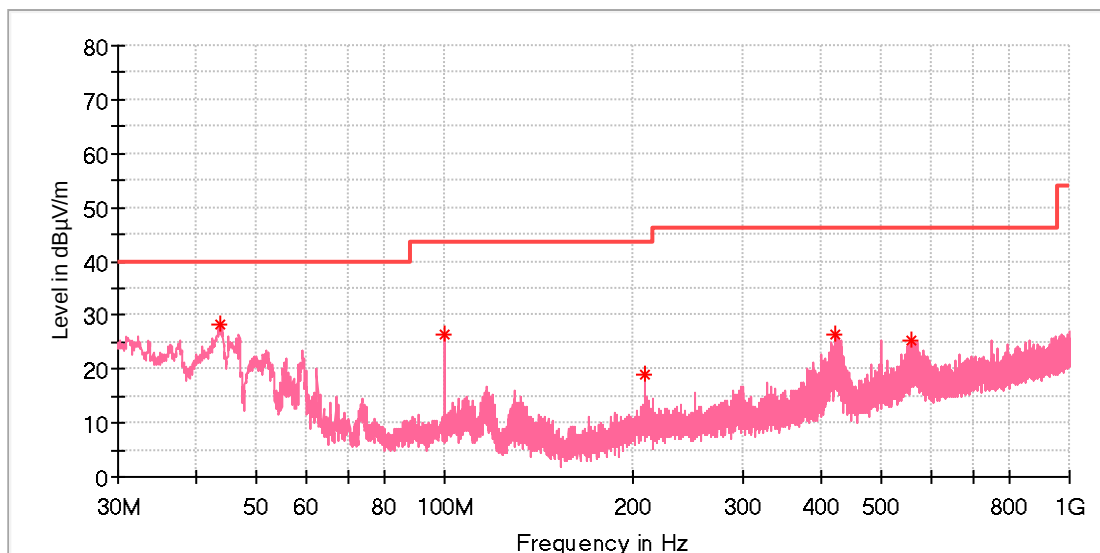


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.495000	19.62	40.00	20.38	100.0	H	207.0	-19.9
99.989231	21.82	43.50	21.68	100.0	H	12.0	-19.3
159.308462	23.37	43.50	20.13	100.0	H	64.0	-22.1
208.890385	28.61	43.50	14.89	100.0	H	250.0	-19.2
423.185769	32.83	46.00	13.17	100.0	H	282.0	-13.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch40
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

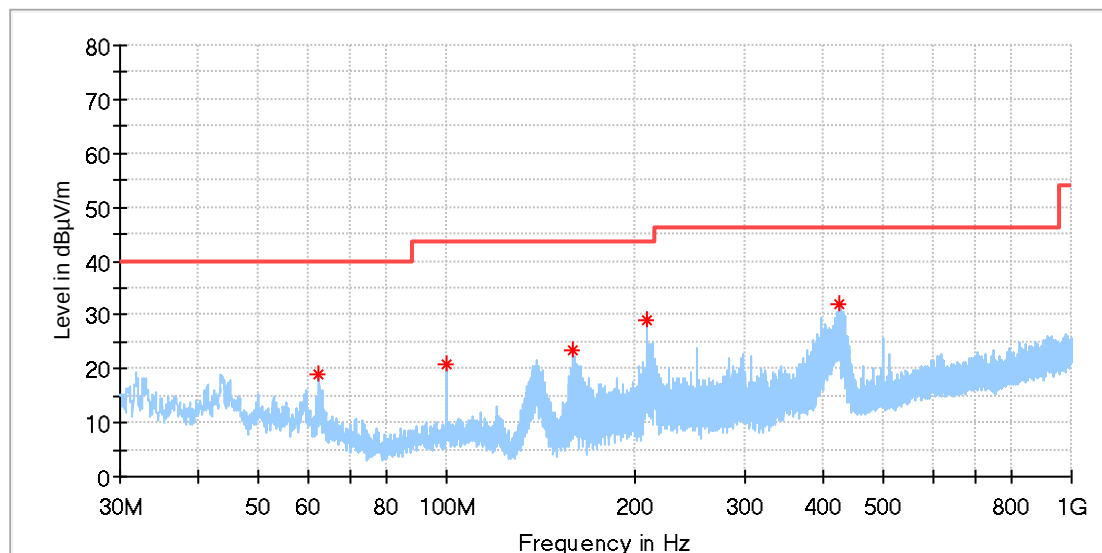


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.766539	28.41	40.00	11.59	100.0	V	243.0	-19.4
99.989231	26.33	43.50	17.17	100.0	V	99.0	-19.3
208.890385	18.85	43.50	24.65	100.0	V	330.0	-19.2
420.536923	26.35	46.00	19.65	100.0	V	134.0	-13.7
556.411539	25.32	46.00	20.68	100.0	V	199.0	-11.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch157
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

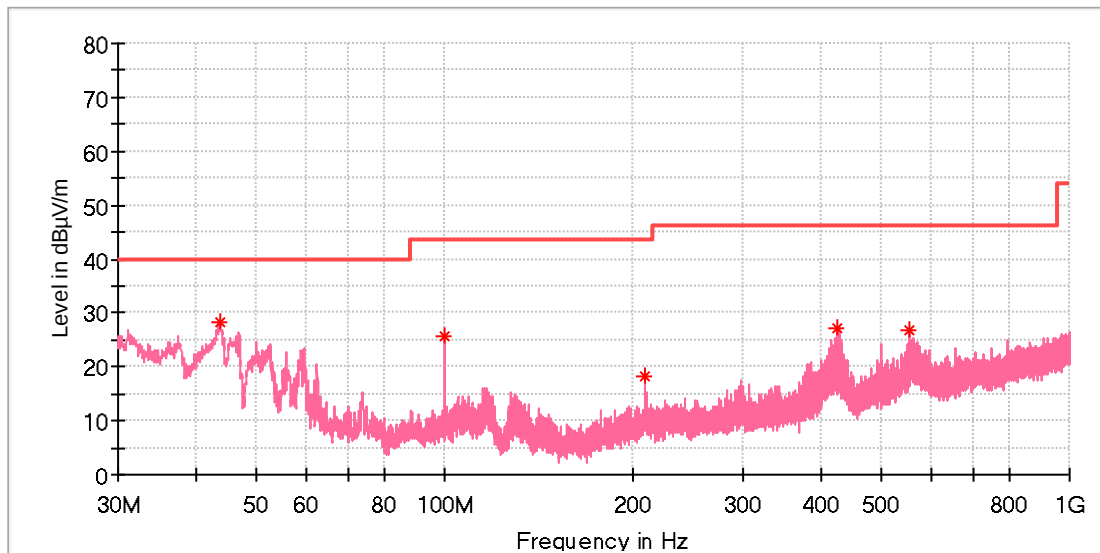


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
62.495000	19.02	40.00	20.98	100.0	H	296.0	-19.9
99.989231	20.74	43.50	22.76	100.0	H	33.0	-19.3
159.271154	23.56	43.50	19.94	100.0	H	262.0	-22.1
208.927692	29.03	43.50	14.47	100.0	H	254.0	-19.2
425.349615	32.04	46.00	13.96	100.0	H	280.0	-13.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch157
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin



Critical Freqs

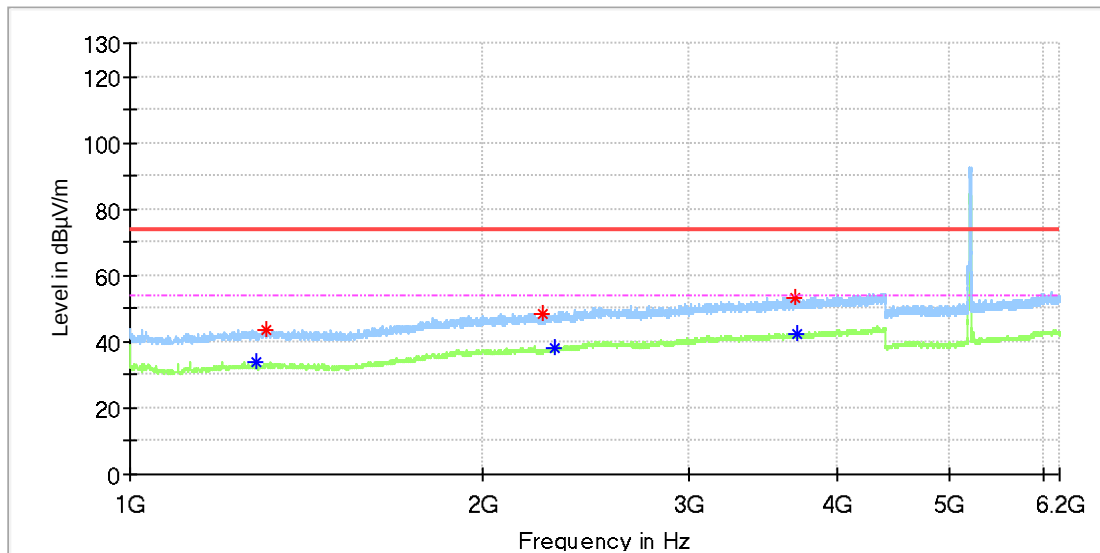
Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
43.580000	28.38	40.00	11.62	100.0	V	196.0	-19.5
99.989231	25.58	43.50	17.92	100.0	V	221.0	-19.3
208.927692	18.05	43.50	25.45	100.0	V	327.0	-19.2
425.125769	27.20	46.00	18.80	100.0	V	134.0	-13.7
552.979231	26.64	46.00	19.36	100.0	V	181.0	-11.1

1GHz - 18GHz

Note: The highest waveform in the figure is 5GHz Wi-Fi Fundamental.

5.2GHz Wi-Fi**EUT Information**

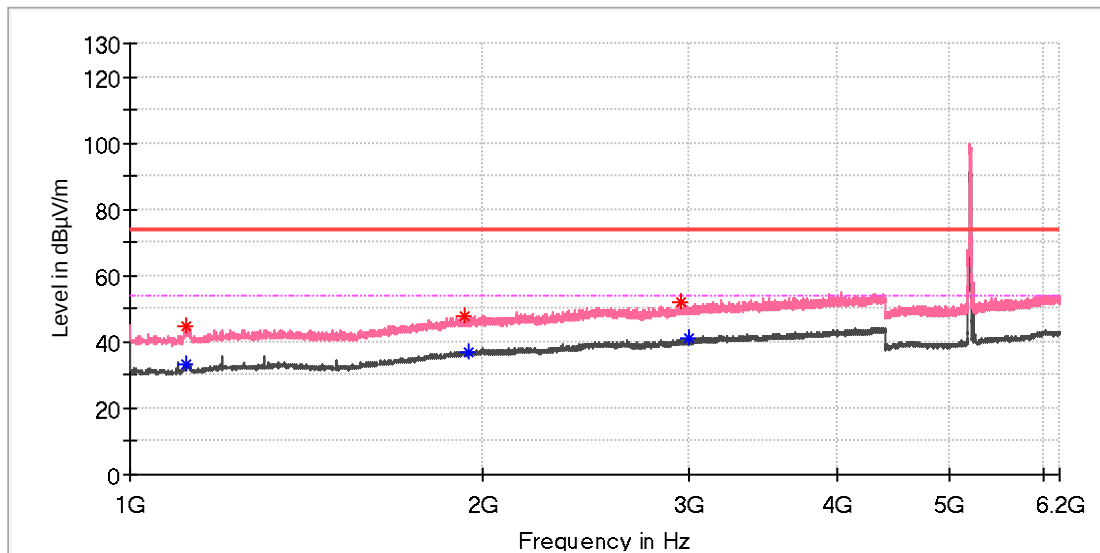
EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch40
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

**Critical Freqs**

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1280.000000	---	33.64	54.00	20.36	150.0	H	9.0	1.9
1306.500000	43.36	---	74.00	30.64	150.0	H	341.0	2.0
2248.500000	48.40	---	74.00	25.60	150.0	H	74.0	6.5
2298.500000	---	38.27	54.00	15.73	150.0	H	235.0	6.4
3695.500000	53.34	---	74.00	20.66	150.0	H	183.0	9.6
3707.500000	---	42.48	54.00	11.52	150.0	H	137.0	9.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch40
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

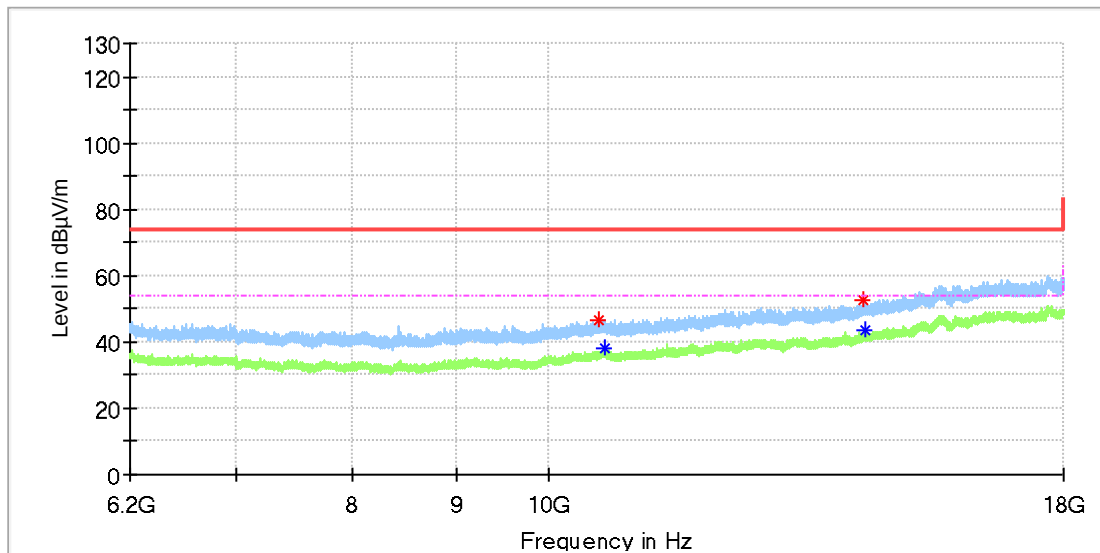


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1117.000000	44.58	---	74.00	29.42	150.0	V	270.0	0.1
1118.500000	---	33.21	54.00	20.79	150.0	V	288.0	0.2
1927.000000	47.59	---	74.00	26.41	150.0	V	98.0	5.6
1946.000000	---	36.99	54.00	17.01	150.0	V	1.0	5.6
2949.500000	51.93	---	74.00	22.07	150.0	V	206.0	8.4
2996.500000	---	41.06	54.00	12.94	150.0	V	85.0	8.5

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch40
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

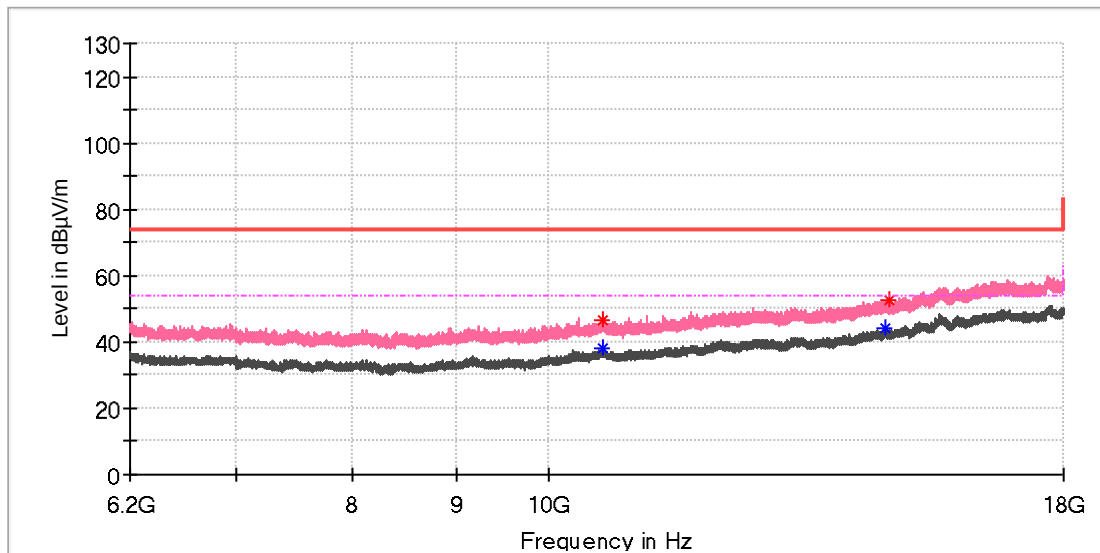


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10591.566667	46.56	---	74.00	27.44	150.0	H	0.0	12.1
10665.316667	---	37.91	54.00	16.09	150.0	H	146.0	11.9
14319.875000	52.78	---	74.00	21.22	150.0	H	204.0	16.7
14338.558333	---	43.38	54.00	10.62	150.0	H	134.0	16.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch40
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

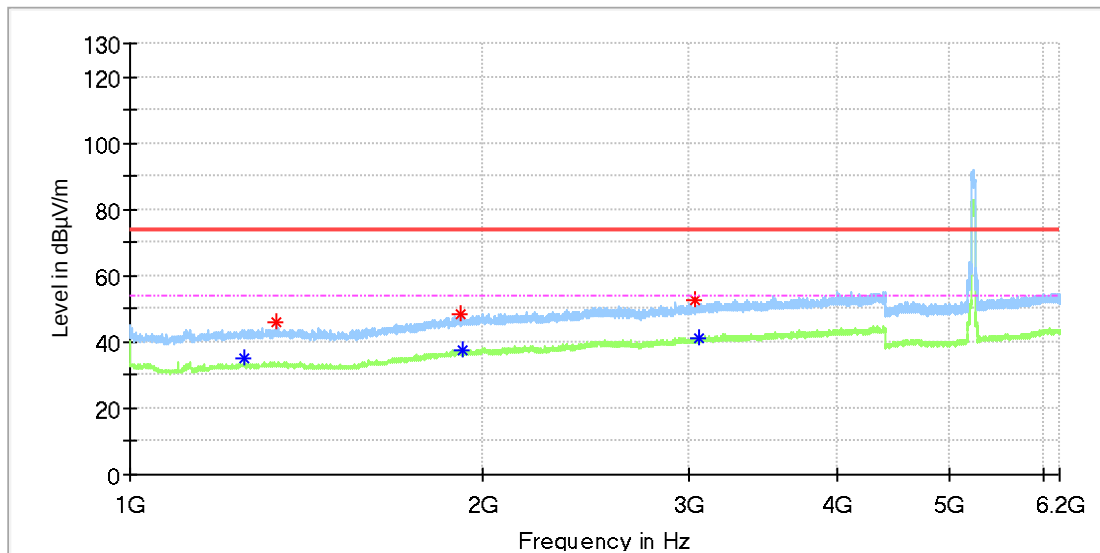


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10625.983333	46.76	---	74.00	27.24	150.0	V	268.0	12.0
10629.916667	---	38.35	54.00	15.65	150.0	V	98.0	12.0
14695.508333	---	44.24	54.00	9.76	150.0	V	243.0	17.0
14747.133333	52.51	---	74.00	21.49	150.0	V	220.0	17.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch46
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

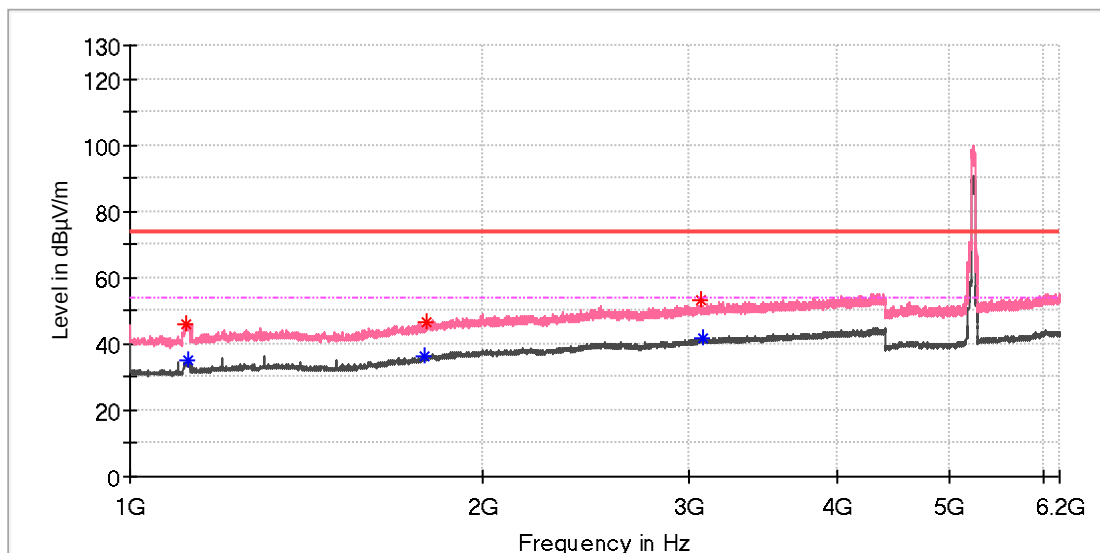


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1249.500000	---	34.92	54.00	19.08	150.0	H	153.0	1.9
1332.500000	45.68	---	74.00	28.32	150.0	H	3.0	2.1
1910.500000	48.22	---	74.00	25.78	150.0	H	49.0	5.6
1920.500000	---	37.72	54.00	16.28	150.0	H	49.0	5.6
3028.000000	52.76	---	74.00	21.24	150.0	H	179.0	8.5
3050.500000	---	41.21	54.00	12.79	150.0	H	0.0	8.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch46
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

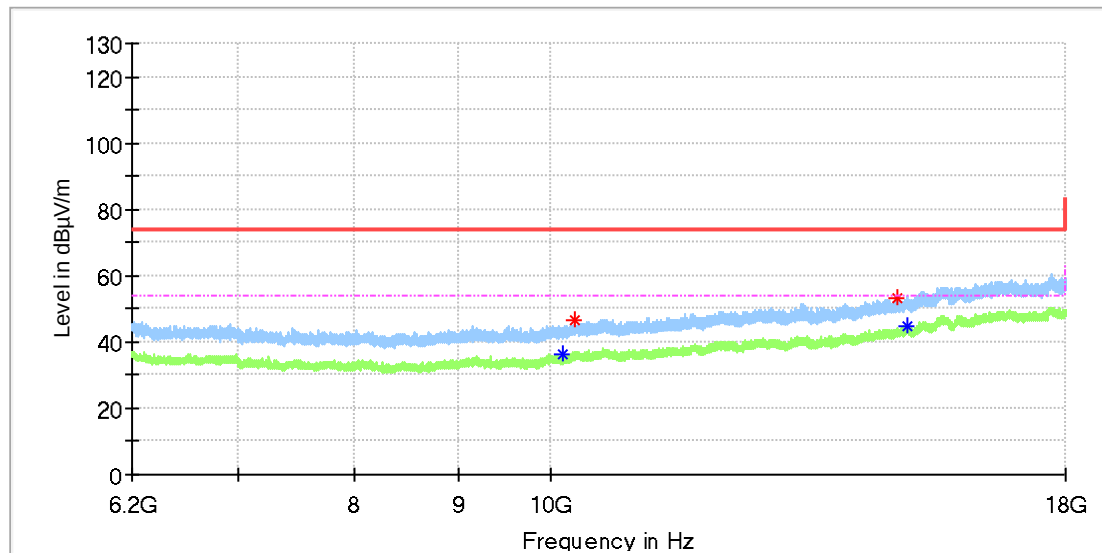


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1117.000000	46.09	---	74.00	27.91	150.0	V	266.0	0.1
1121.000000	---	35.04	54.00	18.96	150.0	V	266.0	0.2
1782.500000	---	36.13	54.00	17.87	150.0	V	8.0	4.4
1787.000000	46.79	---	74.00	27.21	150.0	V	38.0	4.5
3066.500000	52.98	---	74.00	21.02	150.0	V	20.0	8.6
3081.500000	---	41.80	54.00	12.20	150.0	V	168.0	8.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch46
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

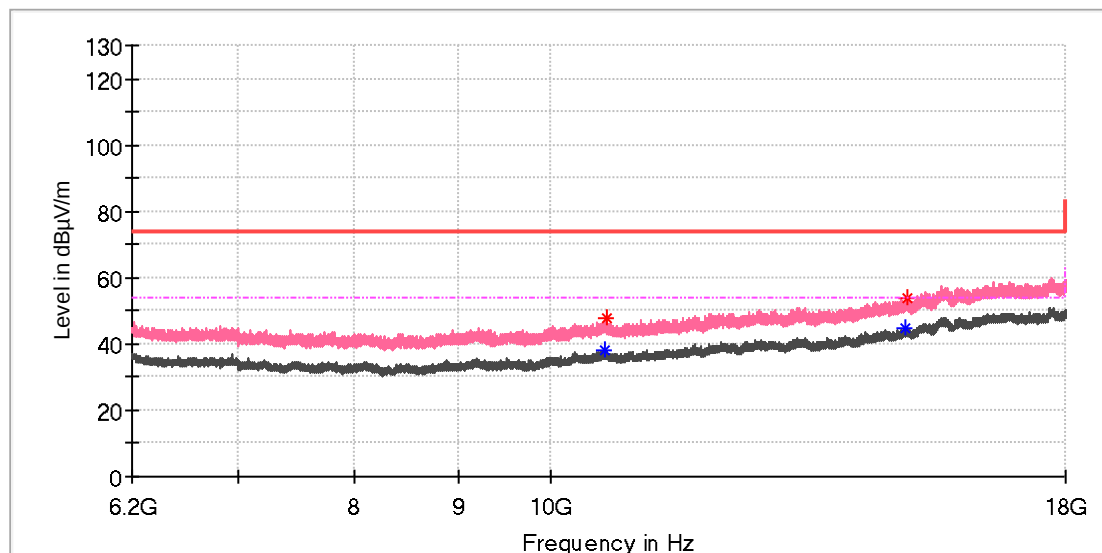


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10136.775000	---	36.43	54.00	17.57	150.0	H	176.0	11.1
10281.816667	46.55	---	74.00	27.45	150.0	H	33.0	11.5
14866.116667	53.31	---	74.00	20.69	150.0	H	69.0	17.4
15010.666667	---	44.73	54.00	9.27	150.0	H	1.0	17.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch46
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

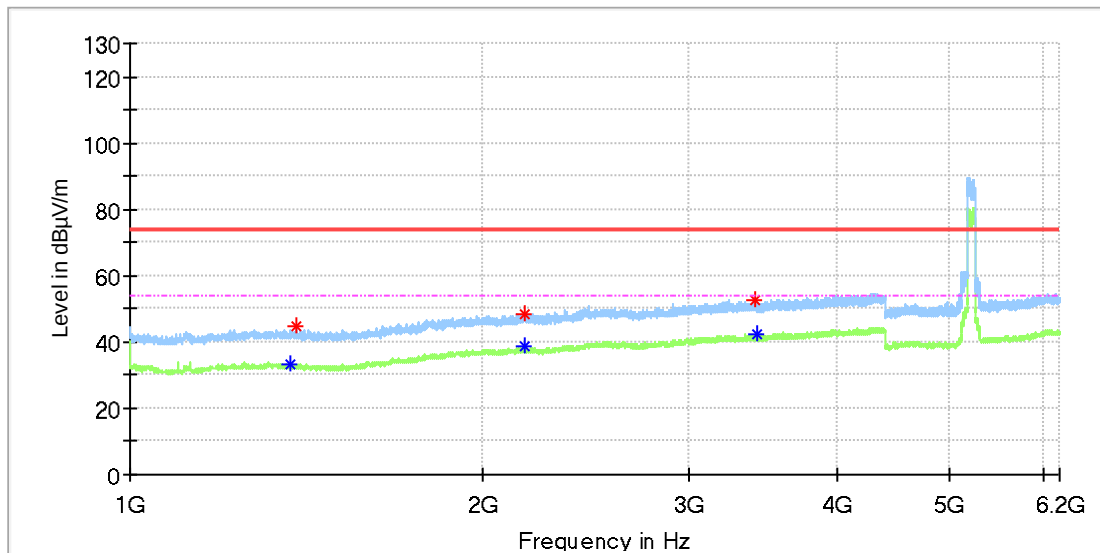


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10643.191667	---	37.86	54.00	16.14	150.0	V	209.0	12.0
10652.041667	47.47	---	74.00	26.53	150.0	V	160.0	12.0
14998.375000	---	44.76	54.00	9.24	150.0	V	244.0	17.6
15011.650000	53.61	---	74.00	20.39	150.0	V	137.0	17.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch42
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

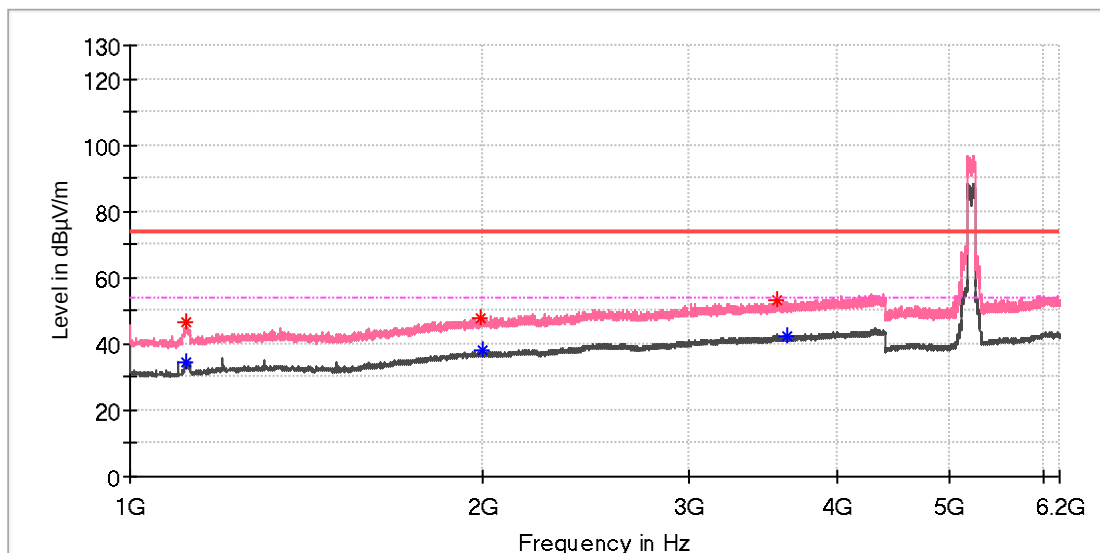


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1369.500000	---	33.55	54.00	20.45	150.0	H	26.0	1.9
1385.500000	44.53	---	74.00	29.47	150.0	H	73.0	1.8
2167.000000	48.63	---	74.00	25.37	150.0	H	108.0	6.2
2172.500000	---	38.46	54.00	15.54	150.0	H	39.0	6.2
3405.000000	52.33	---	74.00	21.67	150.0	H	20.0	8.7
3421.000000	---	42.12	54.00	11.88	150.0	H	245.0	8.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch42
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

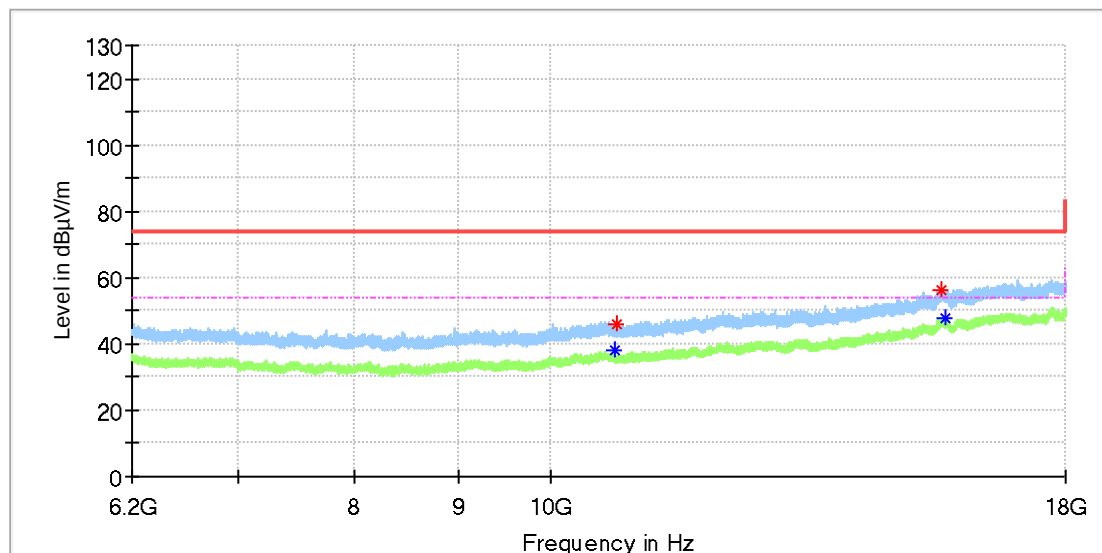


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1117.000000	46.38	---	74.00	27.62	150.0	V	261.0	0.1
1117.000000	---	34.74	54.00	19.26	150.0	V	261.0	0.1
1993.500000	47.83	---	74.00	26.17	150.0	V	233.0	6.0
1999.500000	---	38.09	54.00	15.91	150.0	V	129.0	6.0
3565.500000	53.12	---	74.00	20.88	150.0	V	83.0	9.2
3631.000000	---	42.58	54.00	11.42	150.0	V	15.0	9.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch42
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

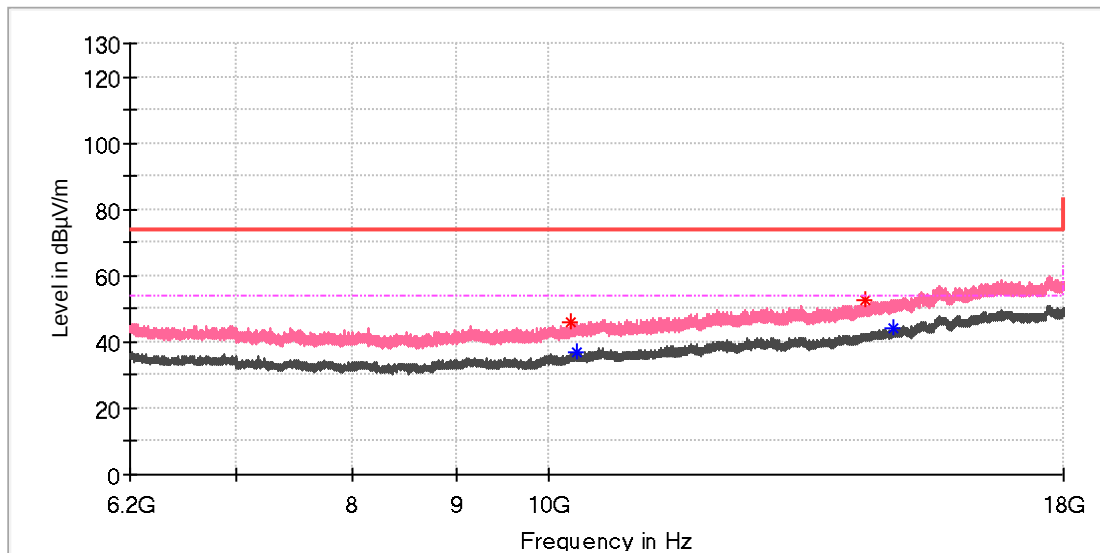


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10760.208333	---	38.03	54.00	15.97	150.0	H	44.0	12.0
10785.775000	46.04	---	74.00	27.96	150.0	H	32.0	12.1
15617.383333	56.35	---	74.00	17.65	150.0	H	155.0	18.8
15684.250000	---	47.58	54.00	6.42	150.0	H	204.0	19.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch42
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin



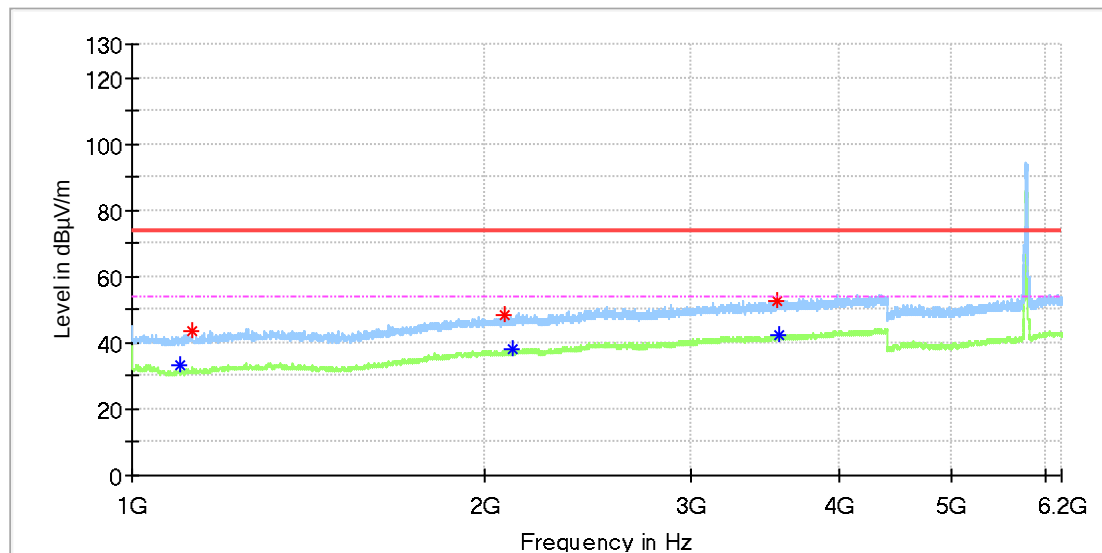
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10257.725000	46.19	---	74.00	27.81	150.0	V	0.0	11.5
10320.658333	---	36.95	54.00	17.05	150.0	V	0.0	11.7
14360.191667	52.55	---	74.00	21.45	150.0	V	293.0	16.8
14813.508333	---	44.40	54.00	9.60	150.0	V	159.0	17.2

5.8GHz Wi-Fi

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch157
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

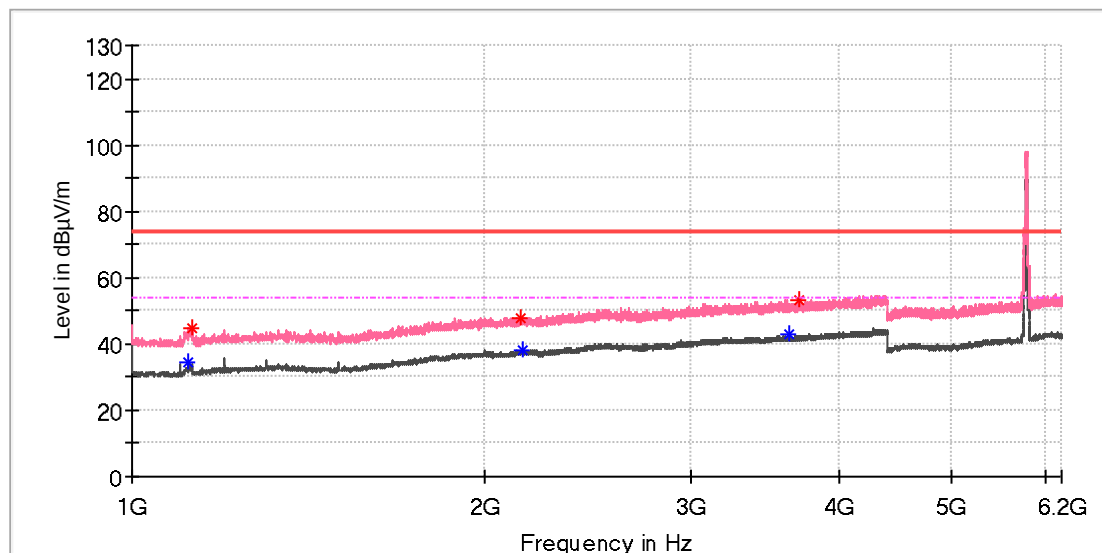


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1100.000000	---	33.40	54.00	20.60	150.0	H	301.0	-0.2
1124.000000	43.43	---	74.00	30.57	150.0	H	39.0	0.3
2074.000000	48.19	---	74.00	25.81	150.0	H	310.0	5.9
2112.500000	---	38.16	54.00	15.84	150.0	H	95.0	6.1
3554.000000	52.83	---	74.00	21.17	150.0	H	39.0	9.2
3556.500000	---	42.57	54.00	11.43	150.0	H	151.0	9.2

EUT Information

EUT Name: LEGEND 700 HEAD UNIT
Model: JBLLEGEND700
Test Mode: WIFI 5G_11A_Ch157
Order No/Sample No: 168492002/A003757812-006
Test Voltage:: DC 12V From DC Source
Remark: Temp 23 Humi:58%
Test Standard: FCC 15.407
Tested By: Lich Chen
Reviewed By: Terry Yin

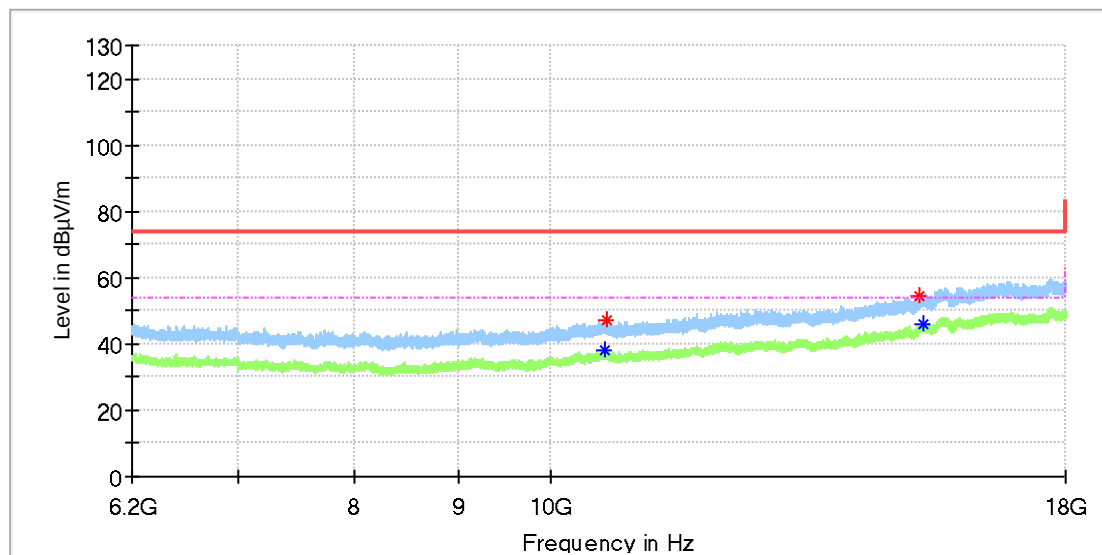


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1115.500000	---	34.43	54.00	19.57	150.0	V	270.0	0.1
1123.000000	44.85	---	74.00	29.15	150.0	V	270.0	0.2
2143.000000	47.99	---	74.00	26.01	150.0	V	36.0	6.2
2155.000000	---	37.86	54.00	16.14	150.0	V	41.0	6.2
3630.000000	---	42.72	54.00	11.28	150.0	V	101.0	9.4
3707.500000	53.30	---	74.00	20.70	150.0	V	170.0	9.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch157
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

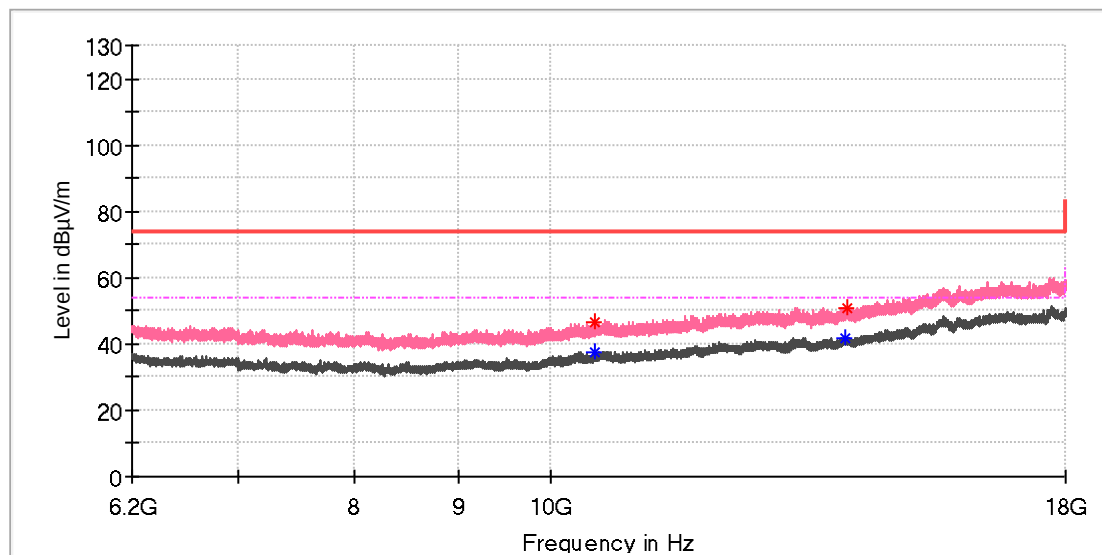


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10626.475000	---	38.32	54.00	15.68	150.0	H	288.0	12.0
10668.266667	47.04	---	74.00	26.96	150.0	H	70.0	11.9
15231.425000	54.69	---	74.00	19.31	150.0	H	70.0	17.8
15286.000000	---	46.19	54.00	7.81	150.0	H	93.0	17.9

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch157
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

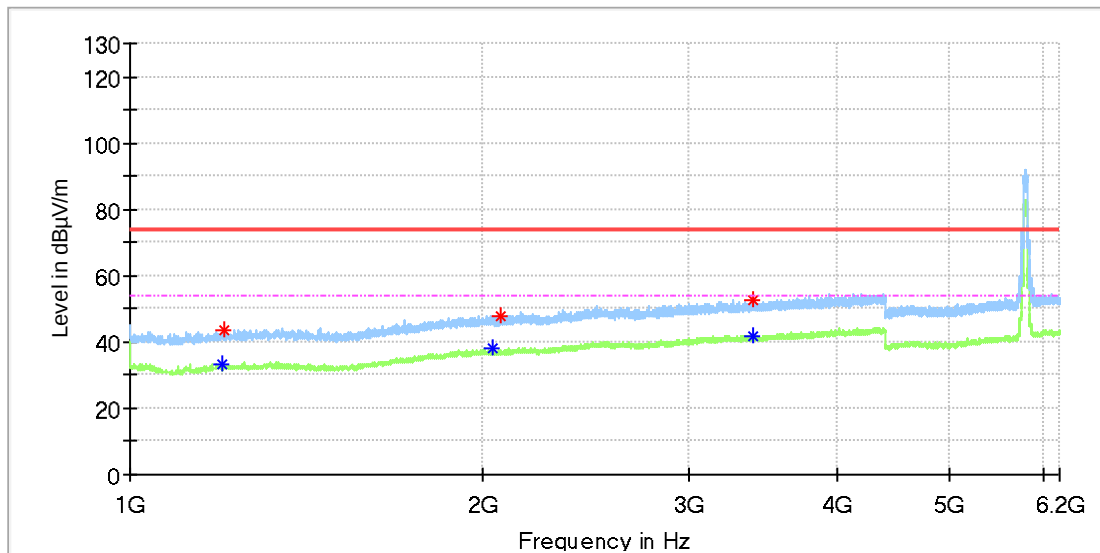


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10517.816667	---	37.77	54.00	16.23	150.0	V	339.0	12.0
10526.666667	46.75	---	74.00	27.25	150.0	V	97.0	12.0
14012.091667	---	42.00	54.00	12.00	150.0	V	204.0	16.1
14033.233333	50.64	---	74.00	23.36	150.0	V	238.0	16.2

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch159
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

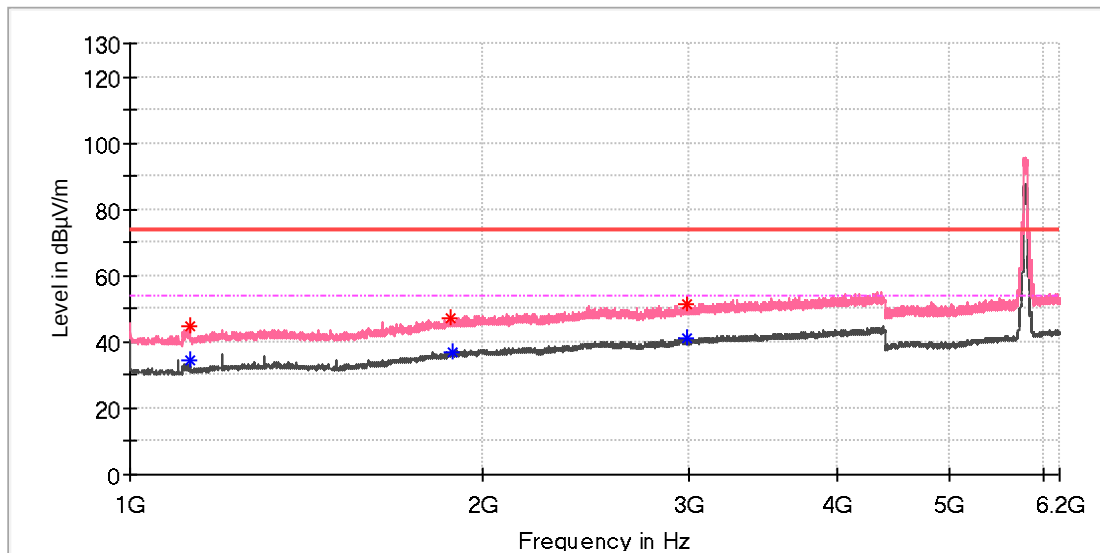


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1200.000000	---	33.36	54.00	20.65	150.0	H	169.0	1.1
1202.500000	43.24	---	74.00	30.76	150.0	H	358.0	1.2
2035.000000	---	37.98	54.00	16.02	150.0	H	246.0	5.9
2071.500000	48.04	---	74.00	25.96	150.0	H	349.0	5.9
3397.000000	52.56	---	74.00	21.44	150.0	H	169.0	8.7
3398.000000	---	41.92	54.00	12.08	150.0	H	304.0	8.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch159
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

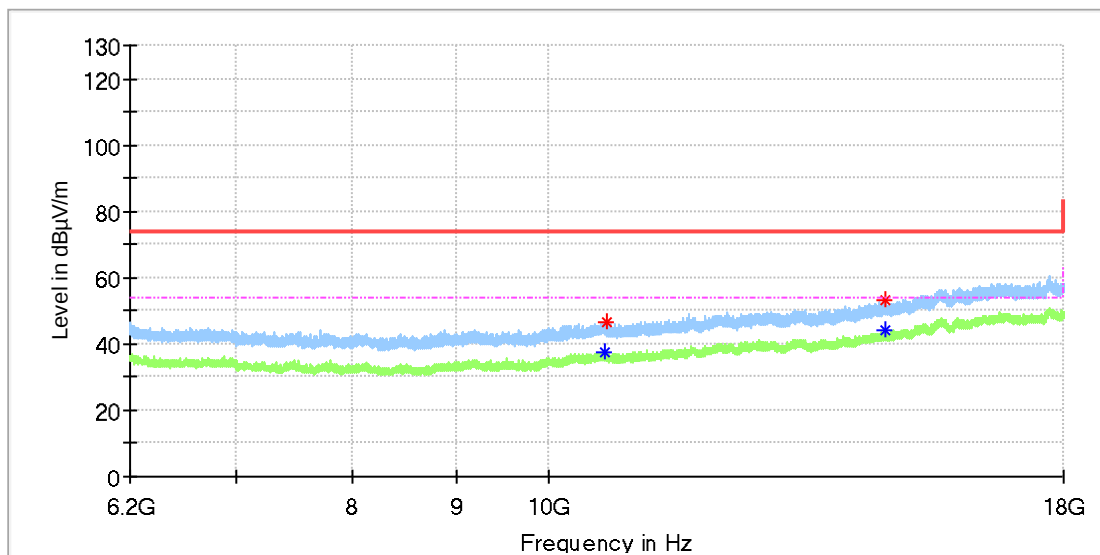


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1124.000000	44.67	---	74.00	29.33	150.0	V	279.0	0.3
1124.500000	---	34.57	54.00	19.43	150.0	V	261.0	0.3
1877.000000	47.37	---	74.00	26.63	150.0	V	188.0	5.3
1885.000000	---	36.98	54.00	17.02	150.0	V	219.0	5.4
2983.000000	51.34	---	74.00	22.66	150.0	V	125.0	8.5
2987.500000	---	40.87	54.00	13.13	150.0	V	219.0	8.5

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch159
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

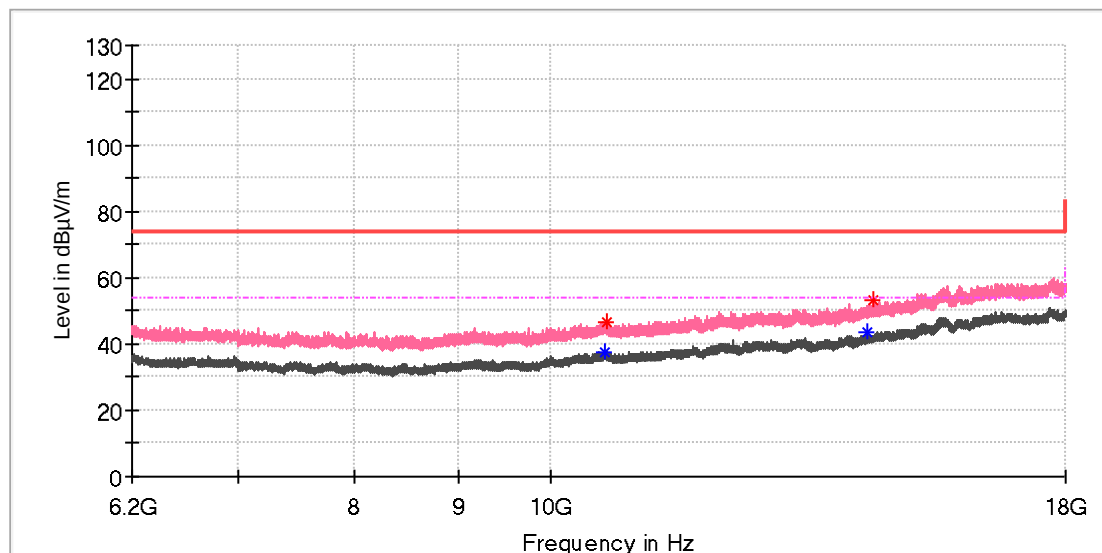


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10649.091667	---	37.56	54.00	16.44	150.0	H	283.0	12.0
10681.541667	46.79	---	74.00	27.21	150.0	H	355.0	11.9
14692.066667	52.95	---	74.00	21.05	150.0	H	138.0	17.0
14696.983333	---	44.15	54.00	9.85	150.0	H	331.0	17.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch159
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

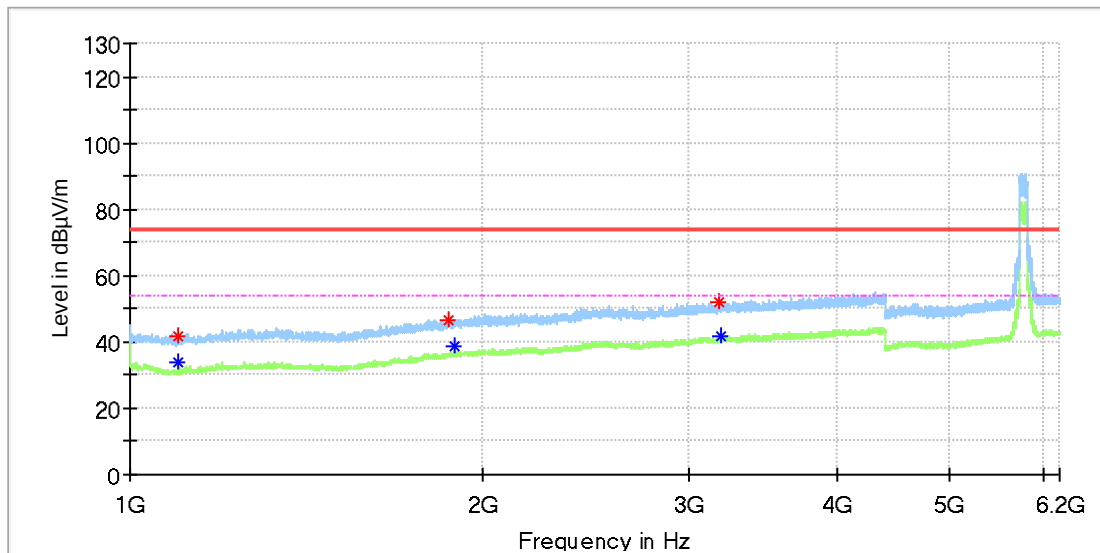


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10636.800000	---	37.21	54.00	16.79	150.0	V	253.0	12.0
10668.266667	46.50	---	74.00	27.50	150.0	V	290.0	11.9
14365.600000	---	43.53	54.00	10.47	150.0	V	317.0	16.8
14448.200000	53.38	---	74.00	20.62	150.0	V	0.0	17.0

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch155
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

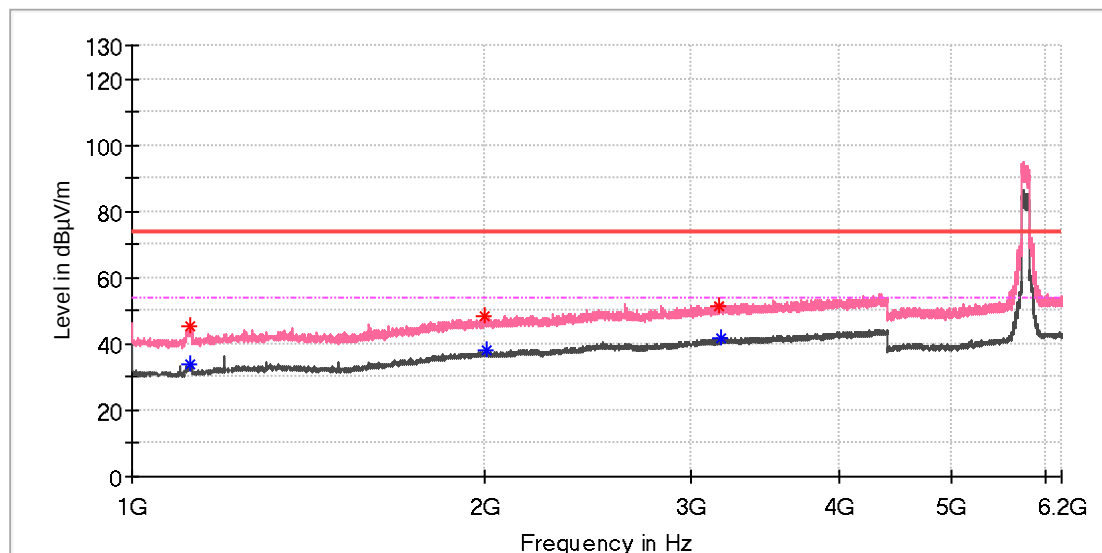


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1099.500000	41.93	---	74.00	32.07	150.0	H	322.0	-0.2
1099.500000	---	33.96	54.00	20.04	150.0	H	322.0	-0.2
1868.500000	46.76	---	74.00	27.24	150.0	H	328.0	5.2
1891.500000	---	38.84	54.00	15.16	150.0	H	200.0	5.5
3180.000000	52.10	---	74.00	21.90	150.0	H	256.0	8.6
3190.000000	---	41.96	54.00	12.04	150.0	H	322.0	8.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch155
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

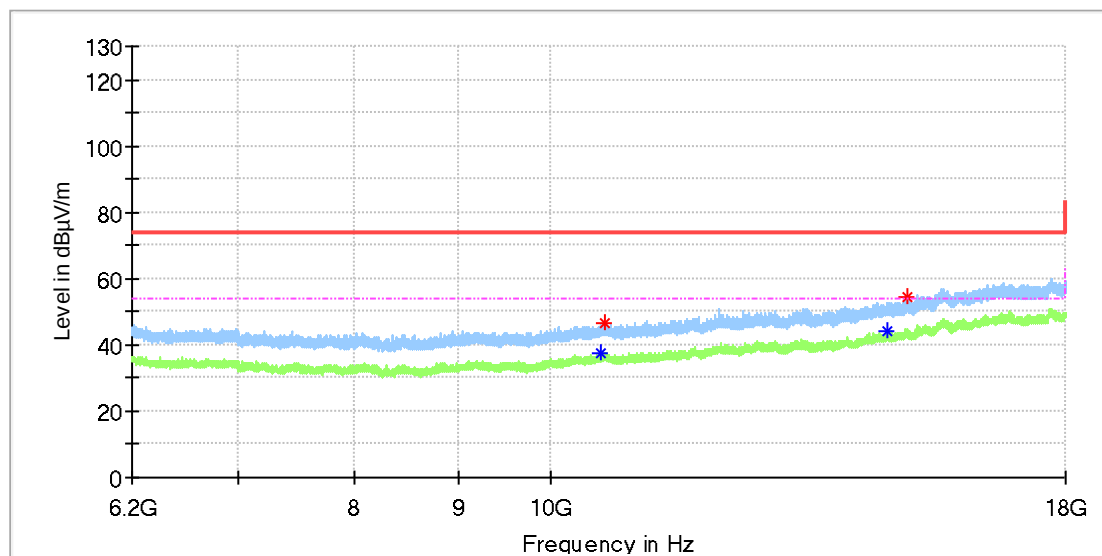


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
1121.500000	45.12	---	74.00	28.88	150.0	V	269.0	0.2
1122.500000	---	33.95	54.00	20.05	150.0	V	263.0	0.2
2000.000000	48.53	---	74.00	25.47	150.0	V	269.0	6.0
2008.500000	---	37.83	54.00	16.17	150.0	V	91.0	6.0
3161.000000	51.45	---	74.00	22.56	150.0	V	187.0	8.6
3172.000000	---	41.80	54.00	12.20	150.0	V	45.0	8.6

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch155
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

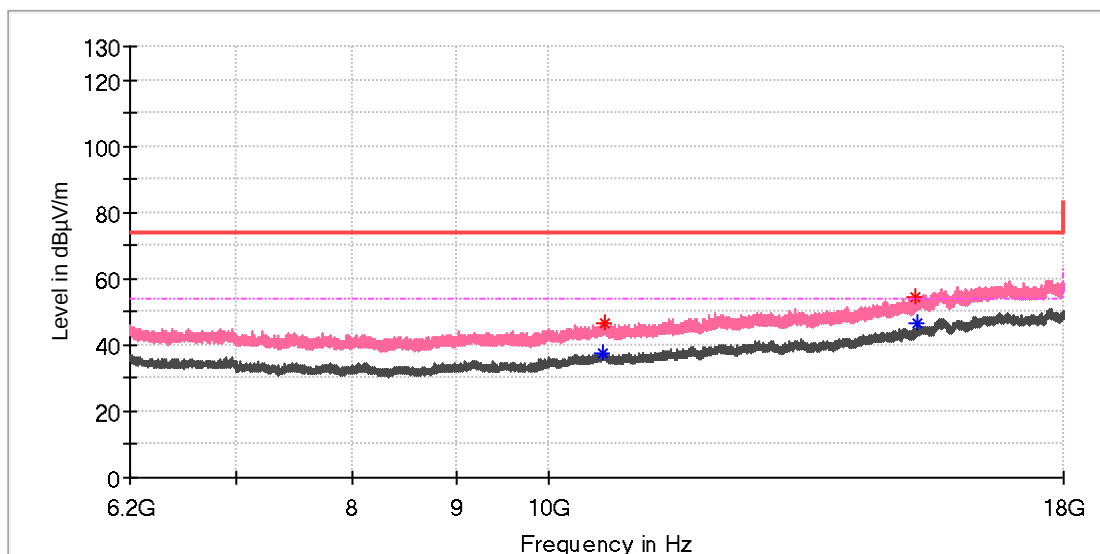


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10592.058333	---	37.74	54.00	16.26	150.0	H	5.0	12.1
10626.966667	46.83	---	74.00	27.17	150.0	H	232.0	12.0
14695.508333	---	44.05	54.00	9.95	150.0	H	329.0	17.0
15013.616667	54.53	---	74.00	19.47	150.0	H	126.0	17.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch155
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin



Critical_Freqs

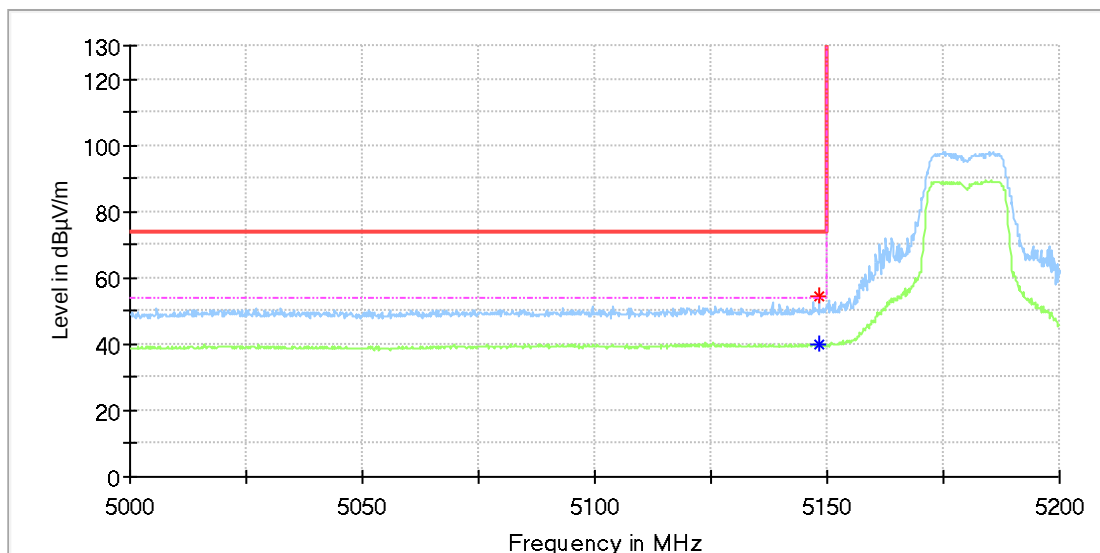
Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
10634.341667	---	37.48	54.00	16.52	150.0	V	232.0	12.0
10654.991667	46.80	---	74.00	27.20	150.0	V	90.0	12.0
15208.316667	54.51	---	74.00	19.49	150.0	V	1.0	17.8
15229.458333	---	46.59	54.00	7.41	150.0	V	113.0	17.8

Appendix A.7: Test Results of Radiated Emissions in Restricted Bands

5.2GHz Wi-Fi

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch36
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

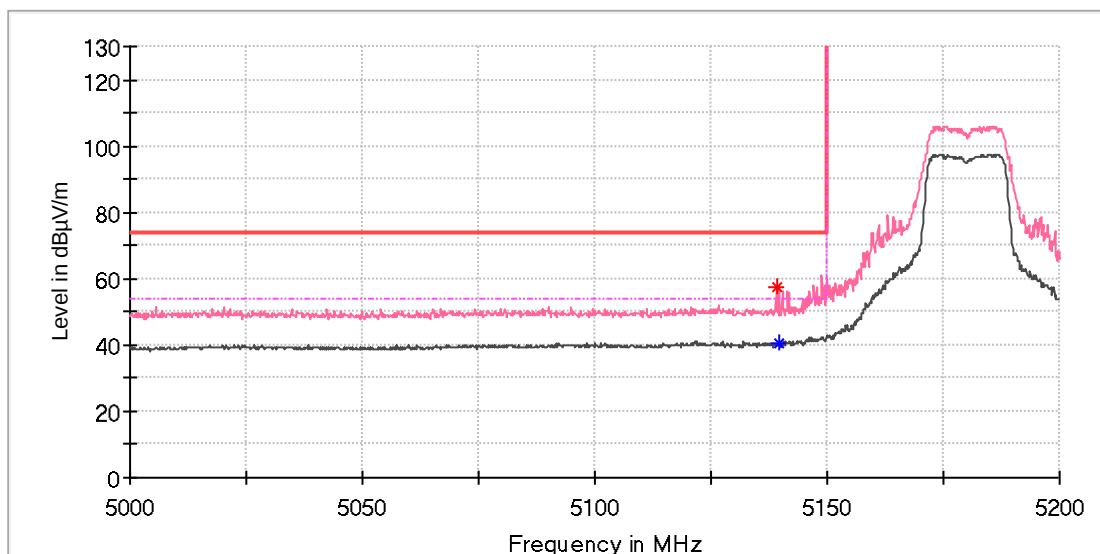


Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.222222	54.35	---	74.00	19.65	100.0	H	102.0	12.4
5148.383333	---	40.15	54.00	13.85	100.0	H	109.0	12.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch36
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

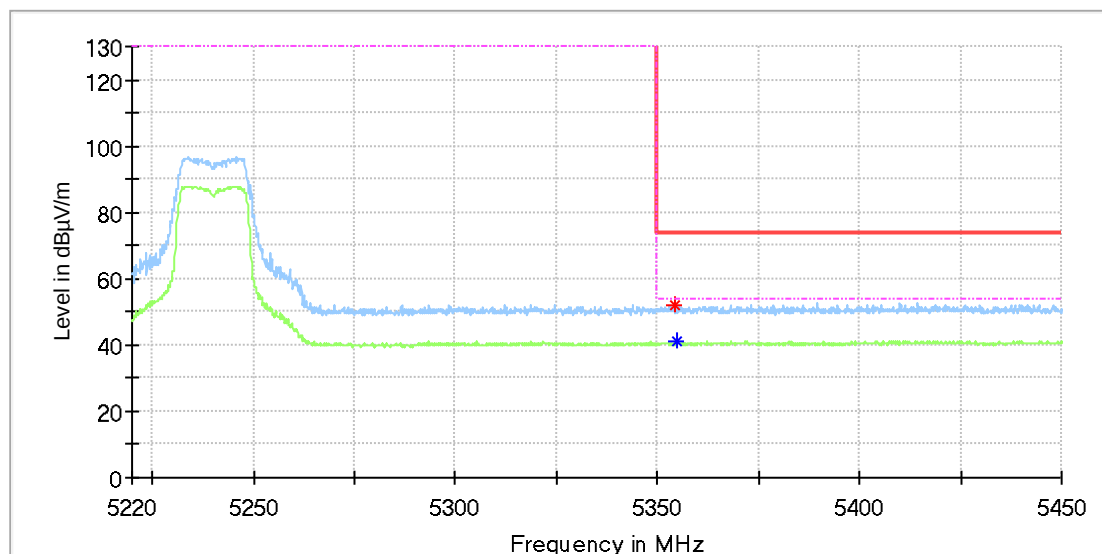


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5139.038889	57.72	---	74.00	16.28	100.0	V	176.0	12.4
5139.683333	---	40.81	54.00	13.19	100.0	V	203.0	12.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch48
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

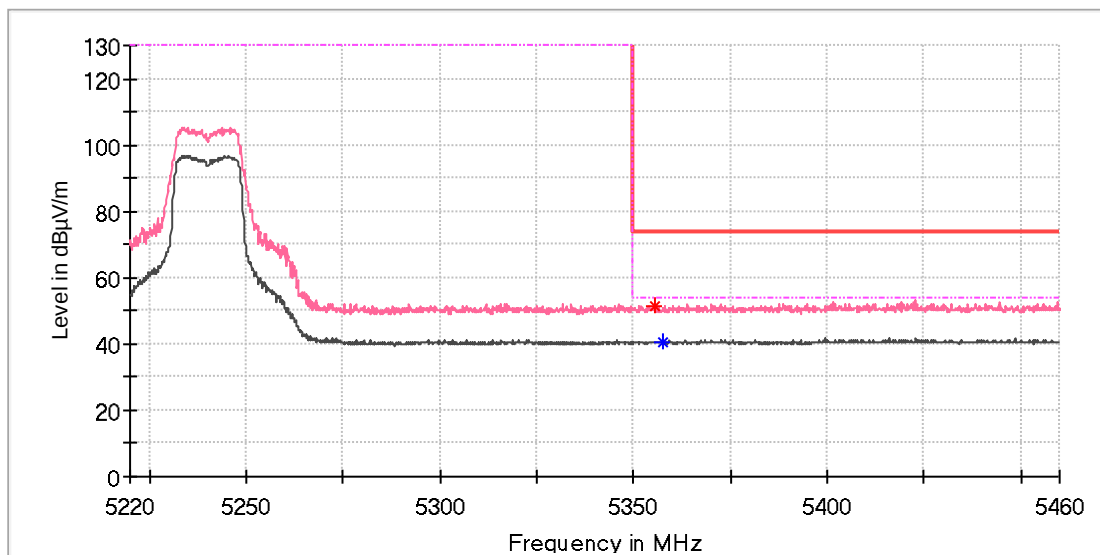


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5354.200000	52.04	---	74.00	21.96	100.0	H	228.0	13.3
5354.838889	---	41.10	54.00	12.90	100.0	H	228.0	13.3

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch48
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

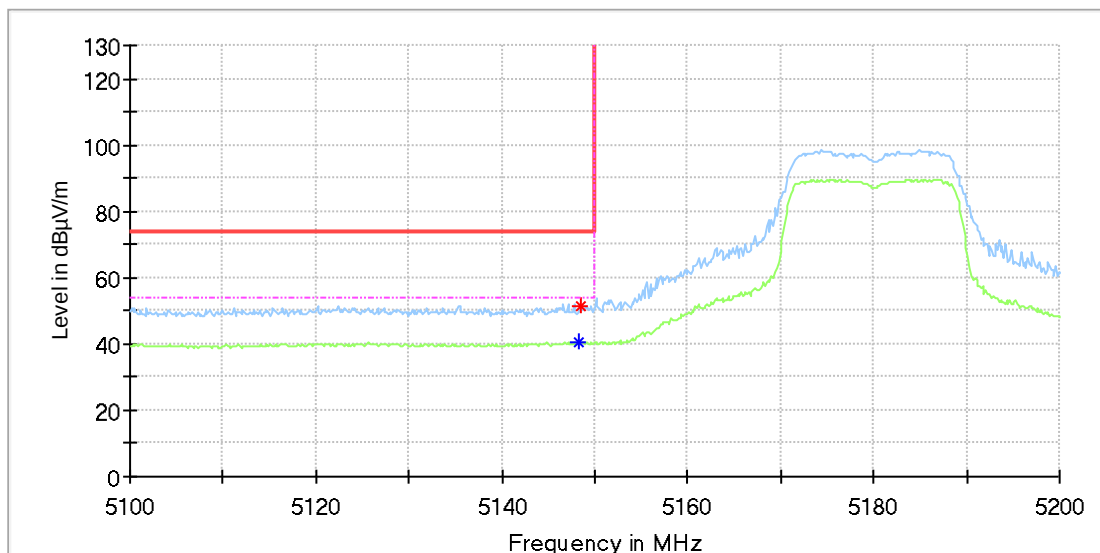


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5355.605556	51.17	---	74.00	22.83	100.0	V	156.0	13.3
5357.650000	---	40.62	54.00	13.38	100.0	V	246.0	13.3

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC20_Ch36
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

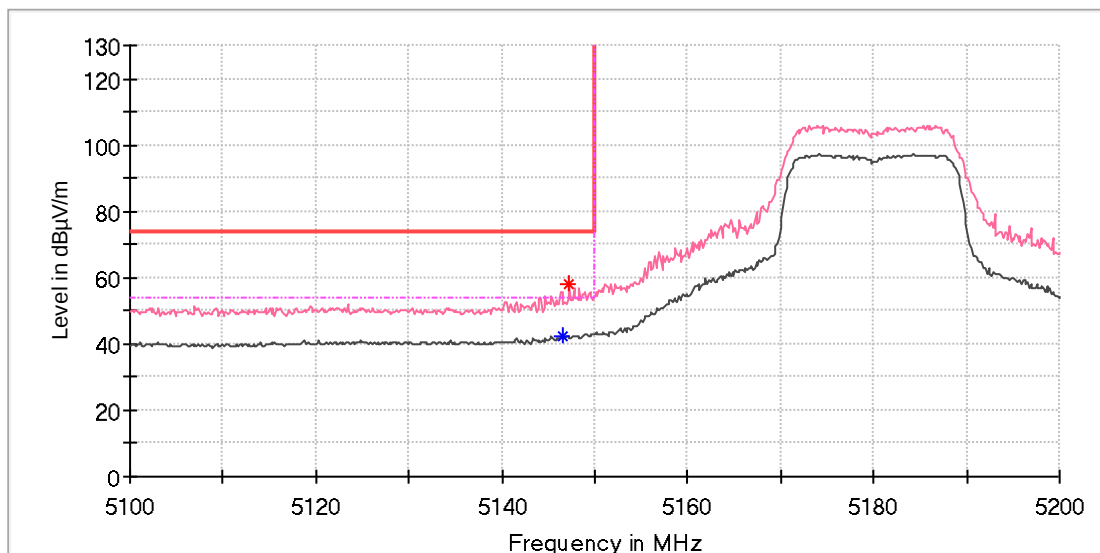


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5148.383333	---	40.27	54.00	13.73	100.0	H	226.0	12.4
5148.544445	51.68	---	74.00	22.32	100.0	H	226.0	12.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC20_Ch36
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

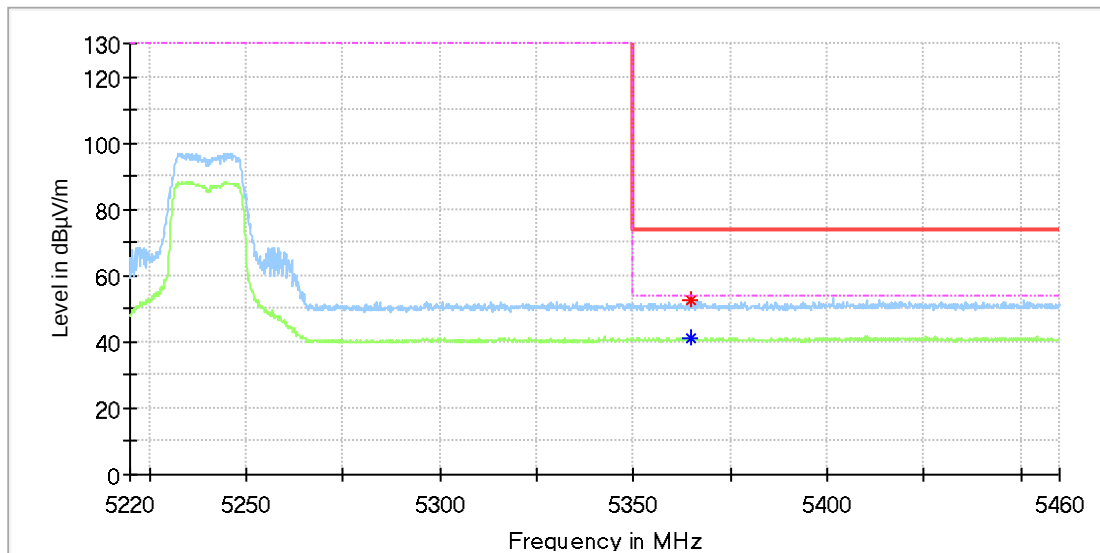


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5146.450000	---	42.43	54.00	11.57	100.0	V	174.0	12.4
5147.255556	58.34	---	74.00	15.66	100.0	V	174.0	12.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC20_Ch48
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

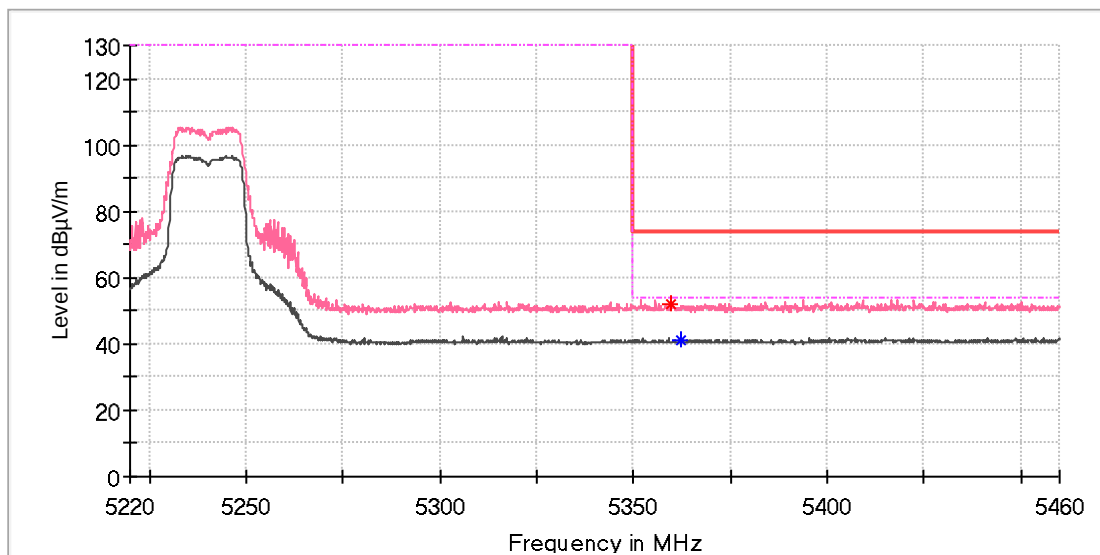


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5364.677778	52.57	---	74.00	21.43	100.0	H	359.0	13.3
5365.061111	---	40.85	54.00	13.15	100.0	H	336.0	13.3

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC20_Ch48
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

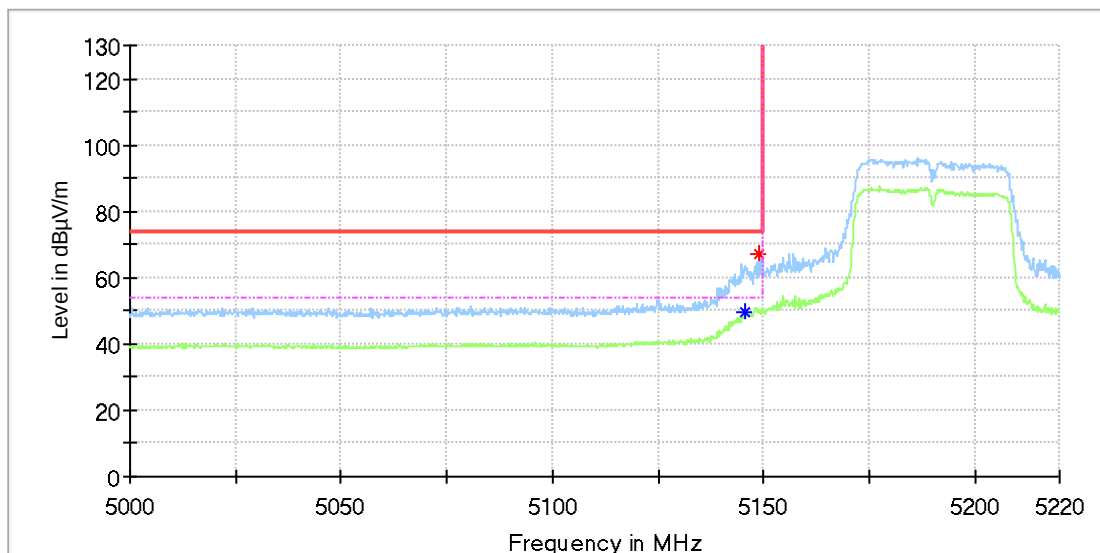


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Average (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5359.438889	52.25	---	74.00	21.75	100.0	V	151.0	13.3
5361.994445	---	41.33	54.00	12.67	100.0	V	3.0	13.3

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch38
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

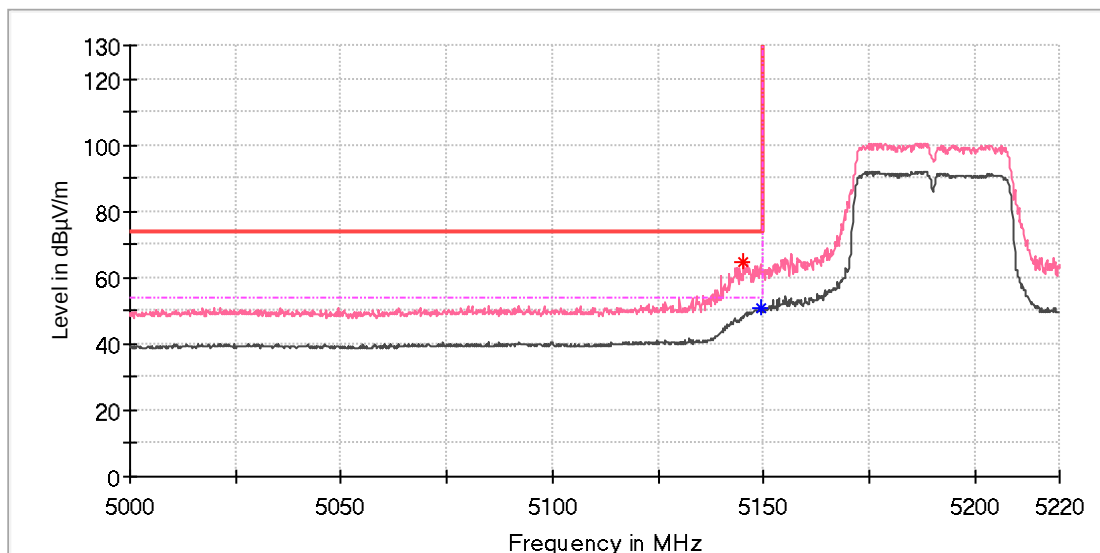


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5145.644445	---	49.38	54.00	4.62	100.0	H	252.0	12.4
5149.027778	67.24	---	74.00	6.76	100.0	H	252.0	12.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch38
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

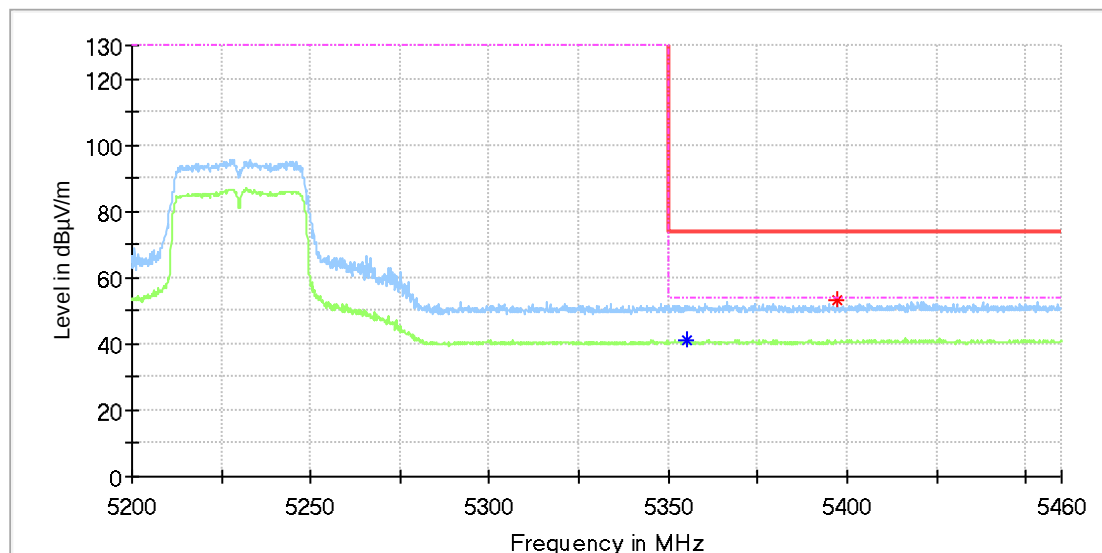


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5145.322222	64.56	---	74.00	9.44	100.0	V	191.0	12.4
5149.350000	---	50.87	54.00	3.13	100.0	V	183.0	12.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch46
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

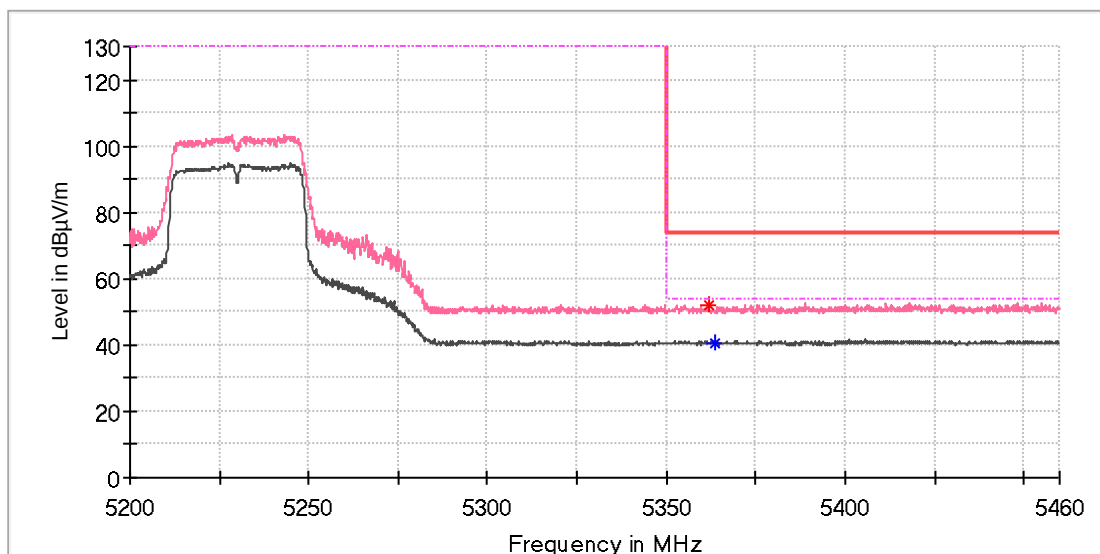


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5355.222222	---	41.12	54.00	12.88	100.0	H	5.0	13.3
5397.388889	53.10	---	74.00	20.90	100.0	H	79.0	13.4

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch46
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

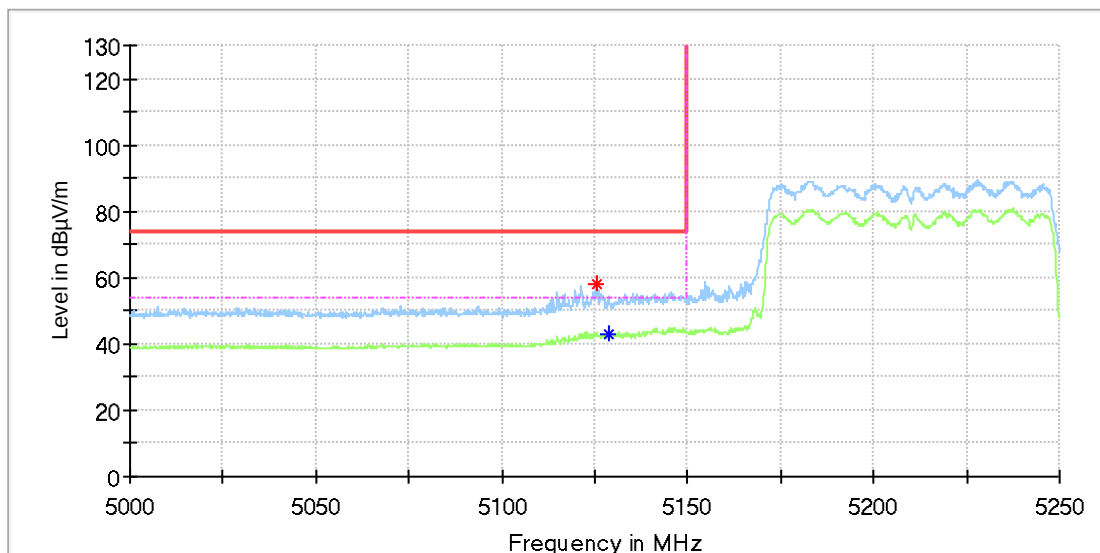


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5361.738889	51.72	---	74.00	22.28	100.0	V	167.0	13.3
5363.783333	---	40.75	54.00	13.25	100.0	V	167.0	13.3

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch42
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

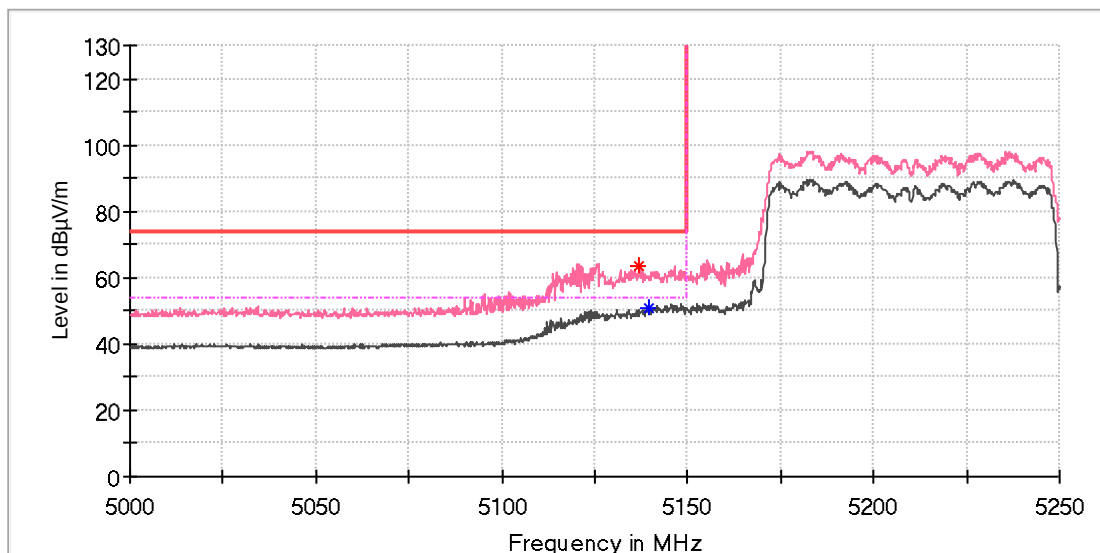


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5125.344445	57.84	---	74.00	16.16	100.0	H	218.0	12.3
5128.727778	---	43.00	54.00	11.00	100.0	H	116.0	12.3

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch42
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin



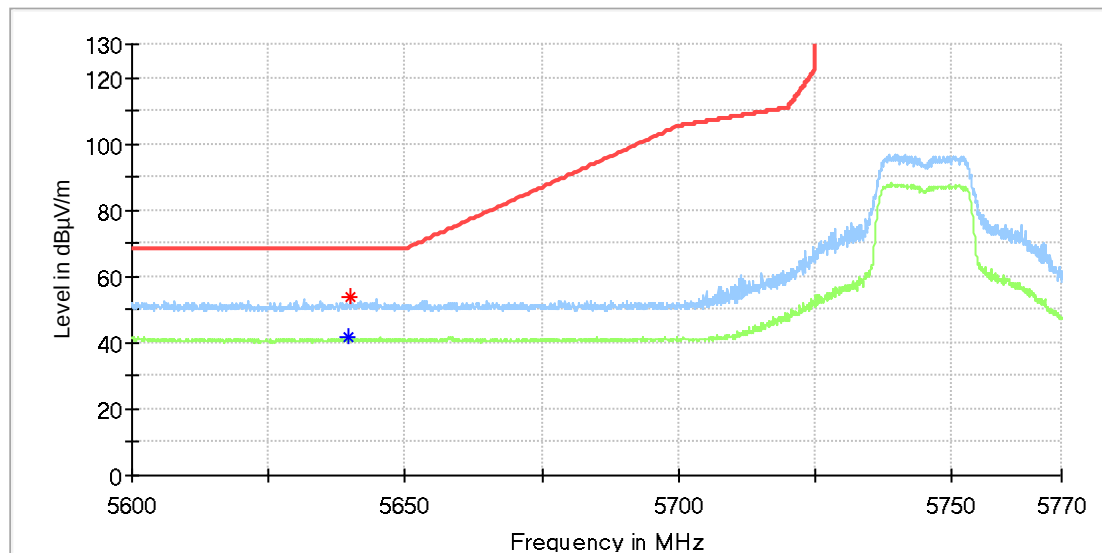
Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Average (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5137.105556	63.30	---	74.00	10.70	100.0	V	182.0	12.4
5139.361111	---	50.83	54.00	3.17	100.0	V	182.0	12.4

5.8GHz Wi-Fi

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch149
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

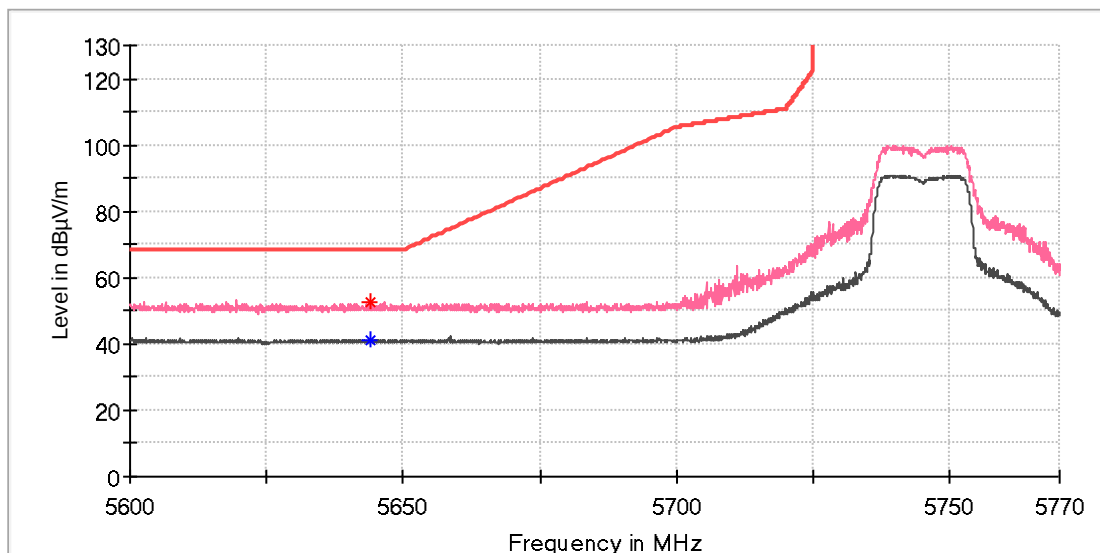


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5639.477778	---	---	---	150.0	H	41.0	13.8
5639.905556	53.99	68.20	14.21	150.0	H	265.0	13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch149
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

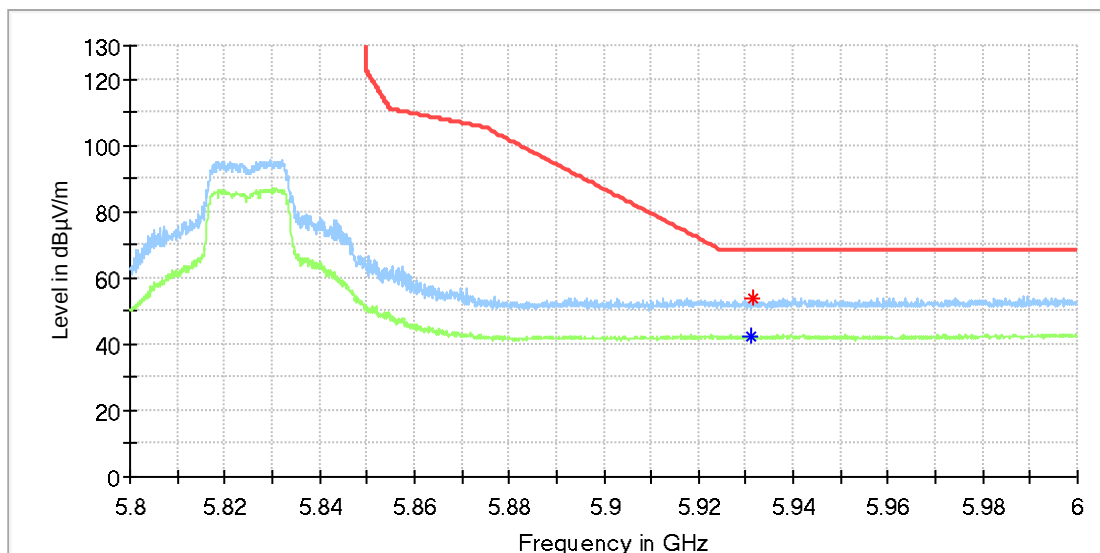


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5643.877778	---	---	---	150.0	V	225.0	13.8
5644.061111	52.57	68.20	15.63	150.0	V	284.0	13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch165
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

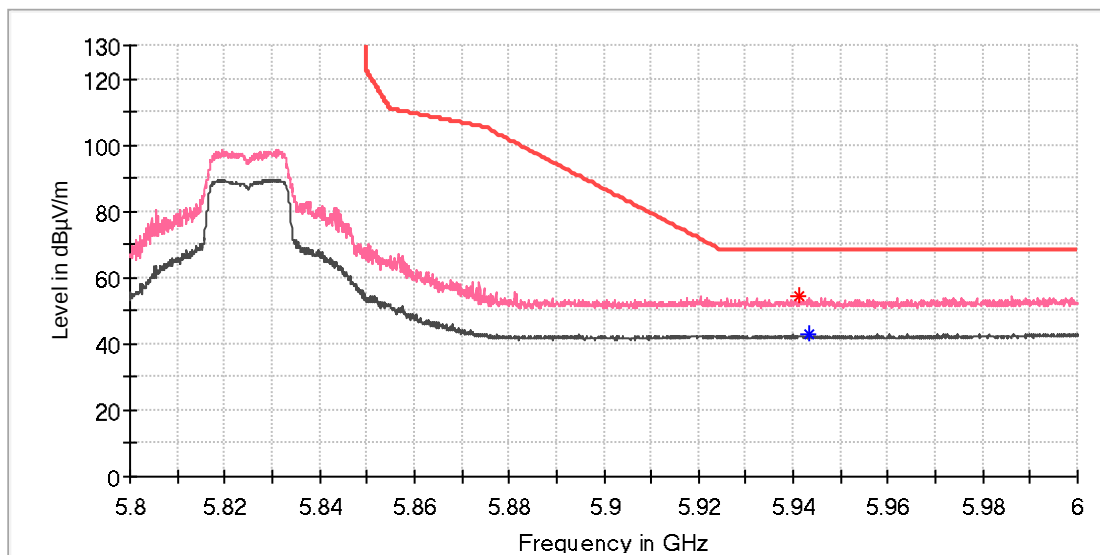


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5931.173611	---	---	---	150.0	H	73.0	14.7
5931.708333	54.06	68.20	14.14	150.0	H	207.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch165
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

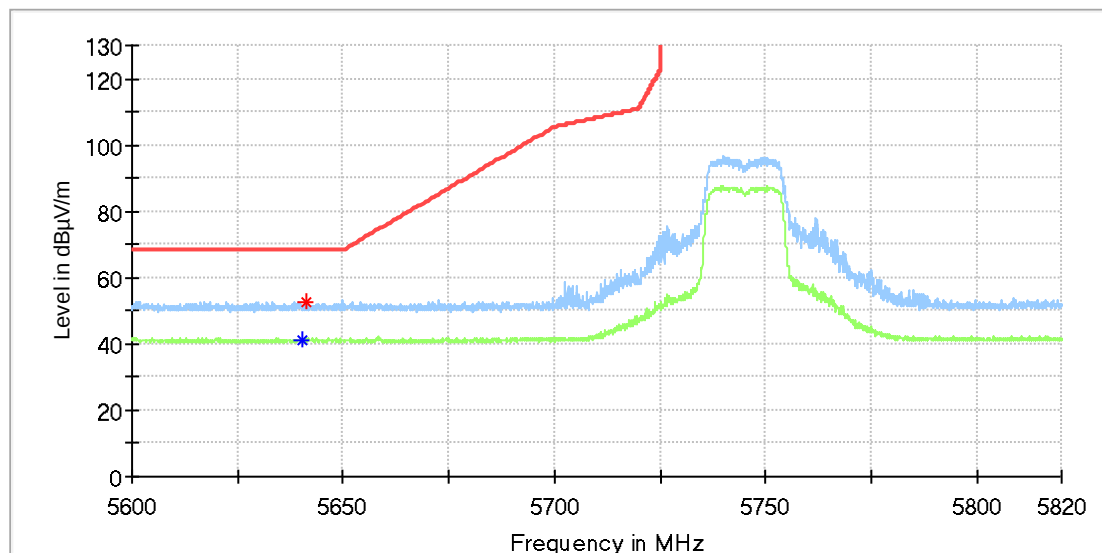


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5941.256945	54.31	68.20	13.89	150.0	V	346.0	14.7
5943.548611	---	---	---	150.0	V	0.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11N20_Ch149
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

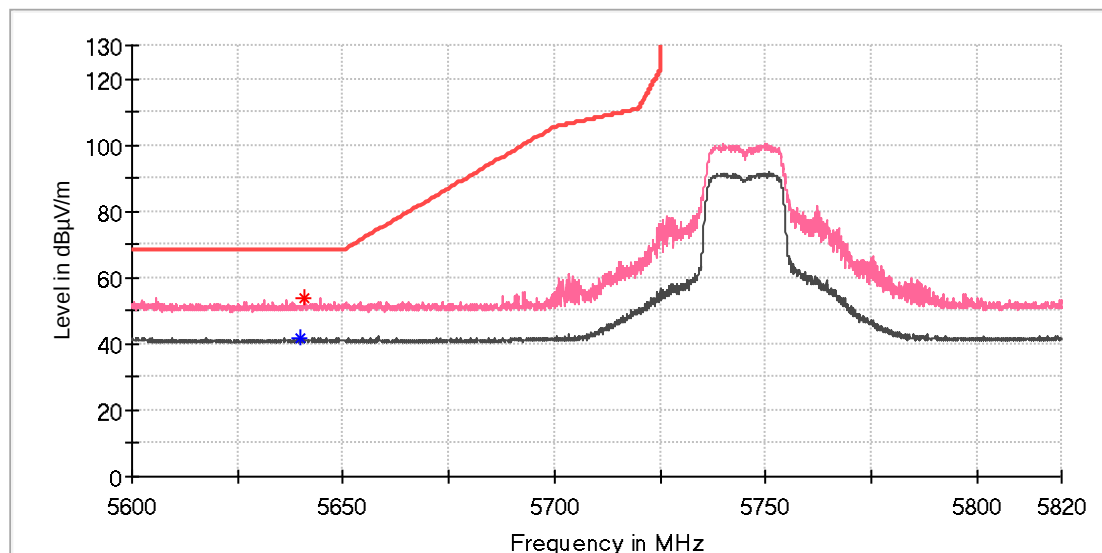


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5640.088889	---	---	---	150.0	H	61.0	13.8
5641.188889	52.34	68.20	15.86	150.0	H	0.0	13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11N20_Ch149
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

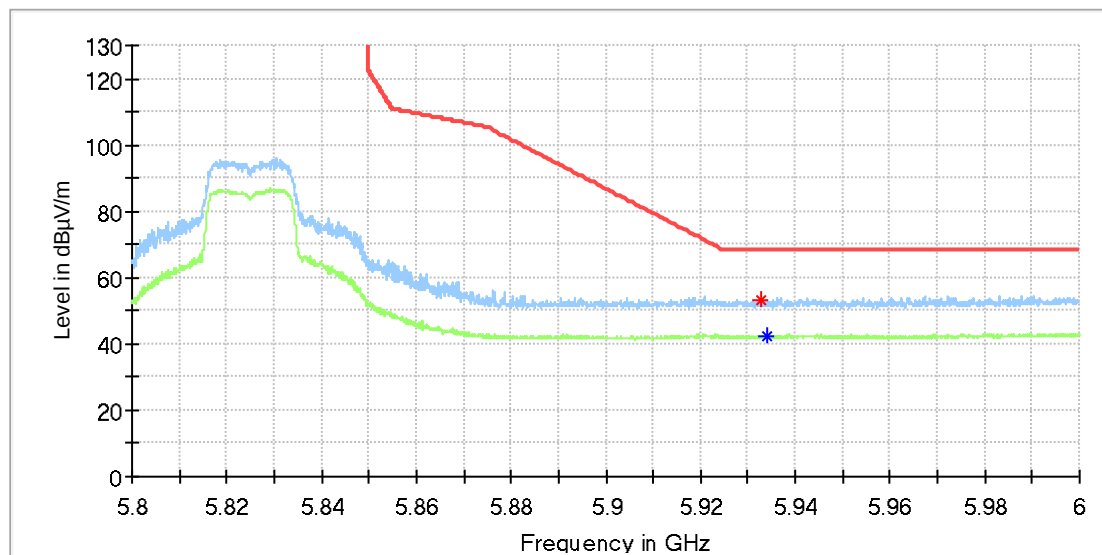


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5639.844445	---	---	---	150.0	V	187.0	13.8
5640.761111	53.81	68.20	14.39	150.0	V	334.0	13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11N20_Ch165
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

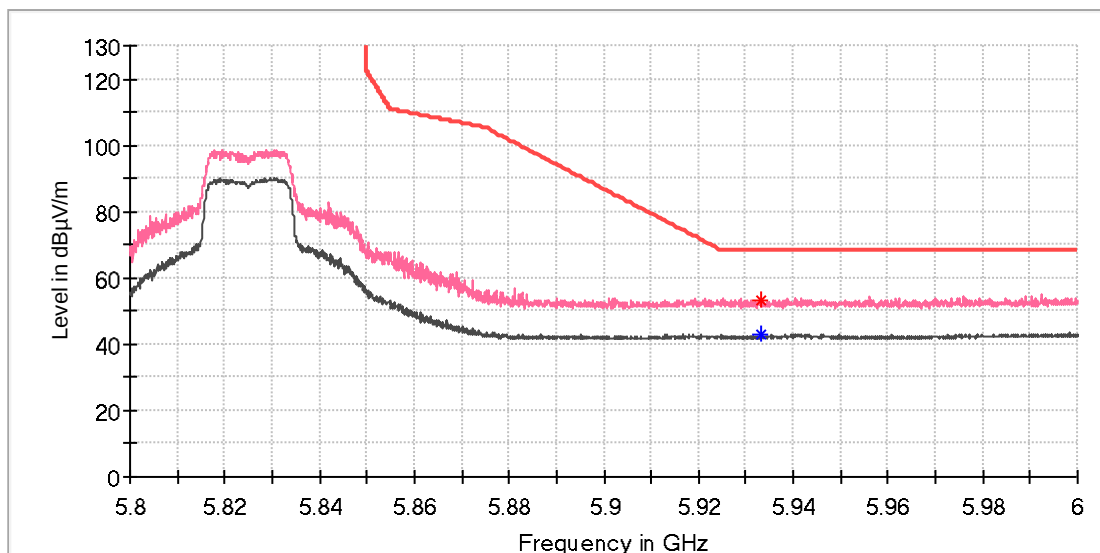


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5932.625000	53.12	68.20	15.08	150.0	H	78.0	14.7
5933.923611	---	---	---	150.0	H	13.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11N20_Ch165
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

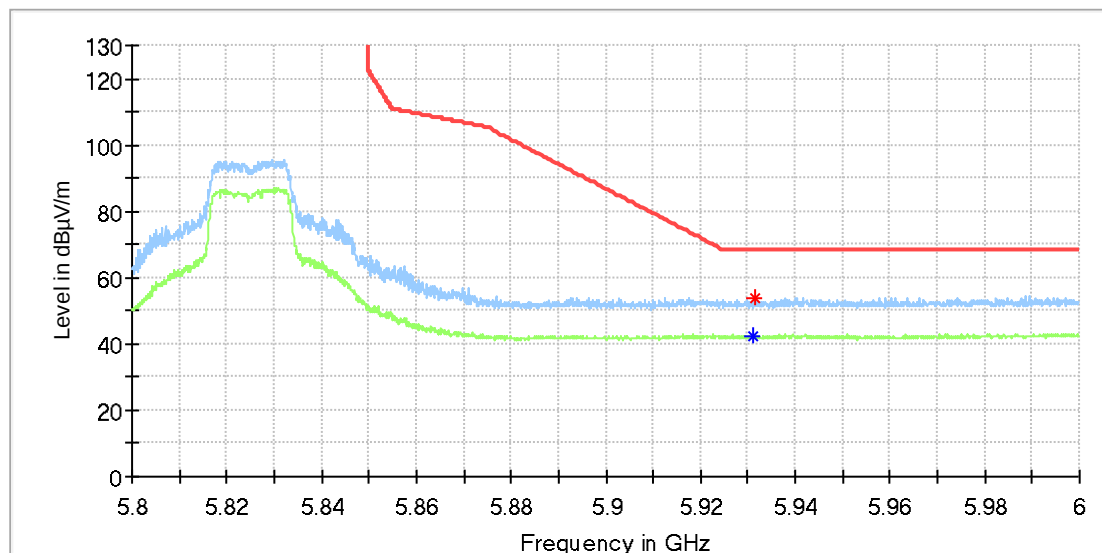


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5933.236111	53.31	68.20	14.89	150.0	V	340.0	14.7
5933.312500	---	---	---	150.0	V	193.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch165
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

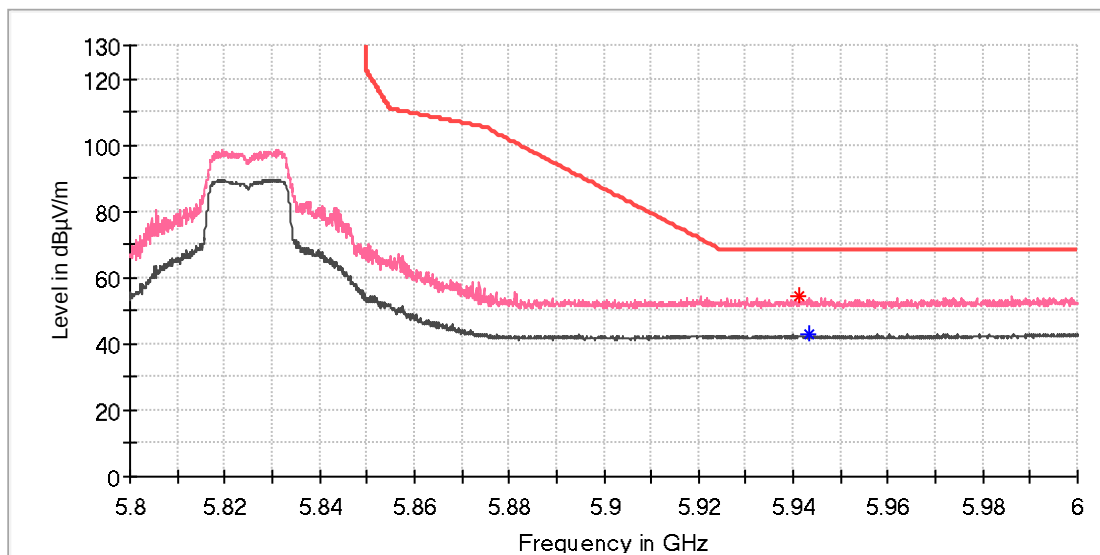


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5931.173611	---	---	---	150.0	H	73.0	14.7
5931.708333	54.06	68.20	14.14	150.0	H	207.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11A_Ch165
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

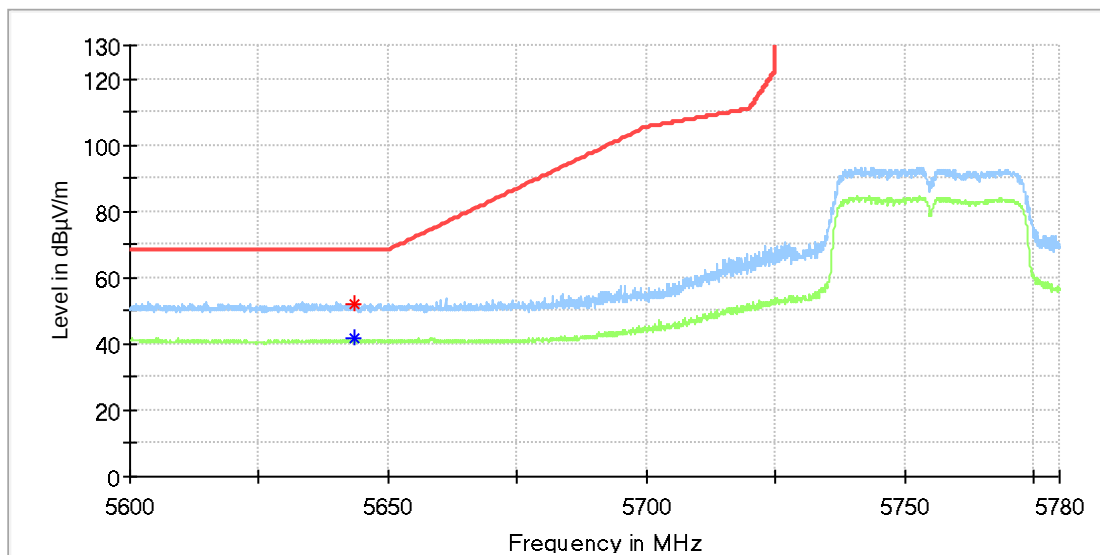


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5941.256945	54.31	68.20	13.89	150.0	V	346.0	14.7
5943.548611	---	---	---	150.0	V	0.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch151
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

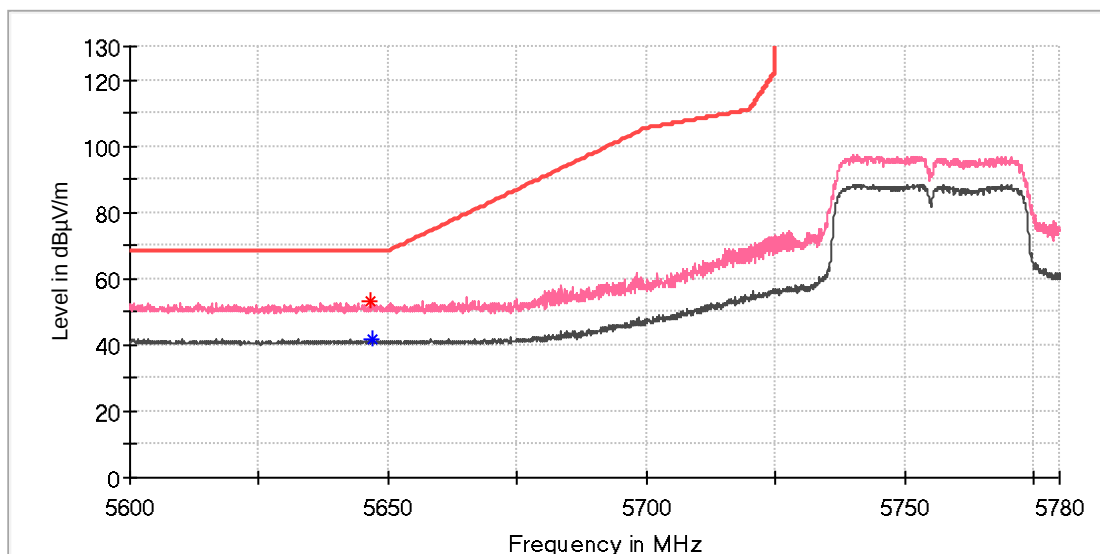


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5643.450000	---	---	---	150.0	H	346.0	13.8
5643.633333	52.23	68.20	15.97	150.0	H	164.0	13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch151
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

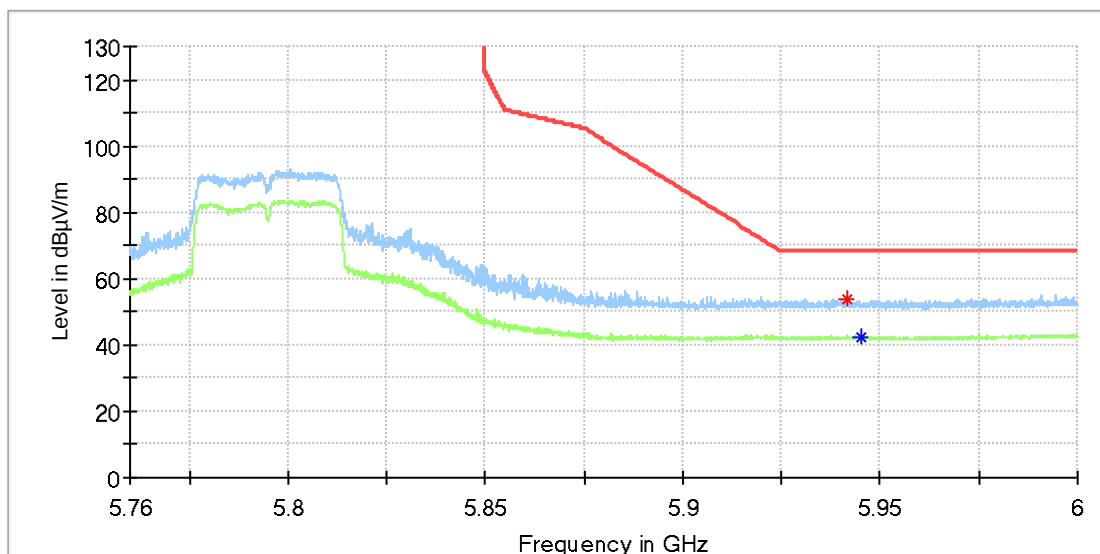


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5646.505556	52.92	68.20	15.28	150.0	V	16.0	13.8
5646.994445	---	---	---	150.0	V	284.0	13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch159
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

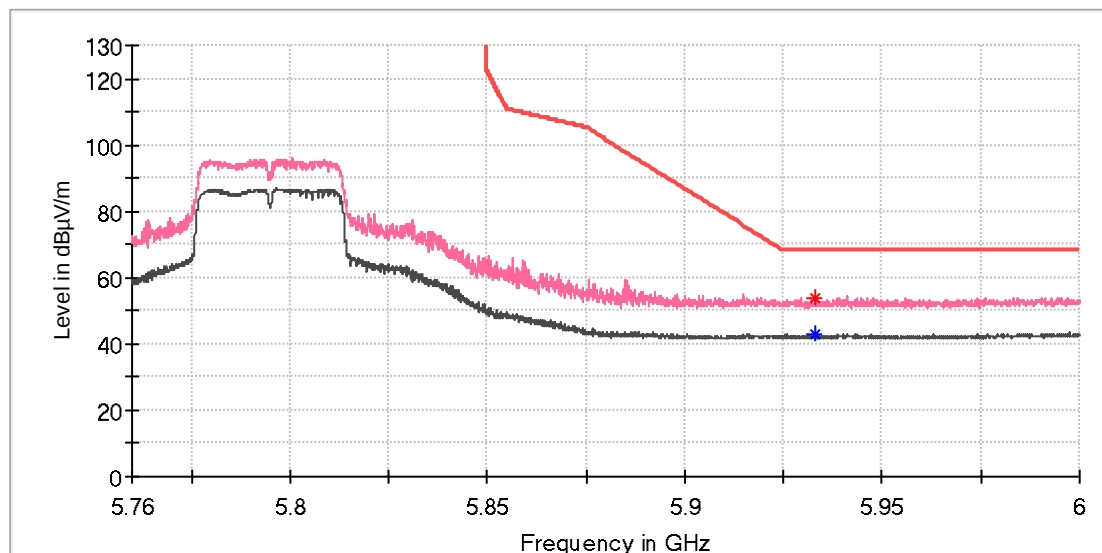


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5941.486111	53.82	68.20	14.38	150.0	H	293.0	14.7
5945.229167	---	---	---	150.0	H	344.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC40_Ch159
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

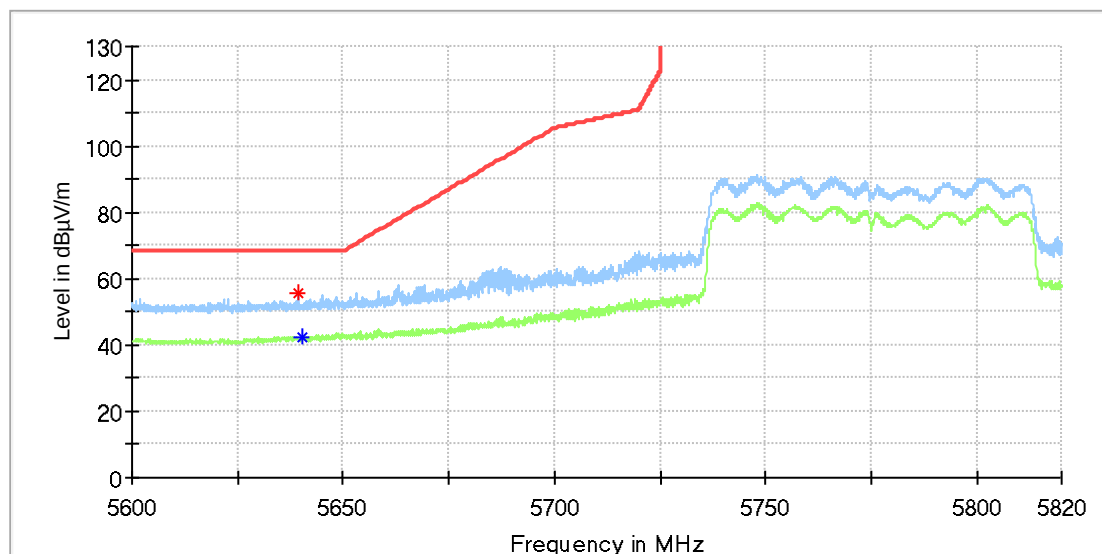


Critical Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5933.159722	53.57	68.20	14.63	150.0	V	47.0	14.7
5933.236111	---	---	---	150.0	V	171.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch155
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

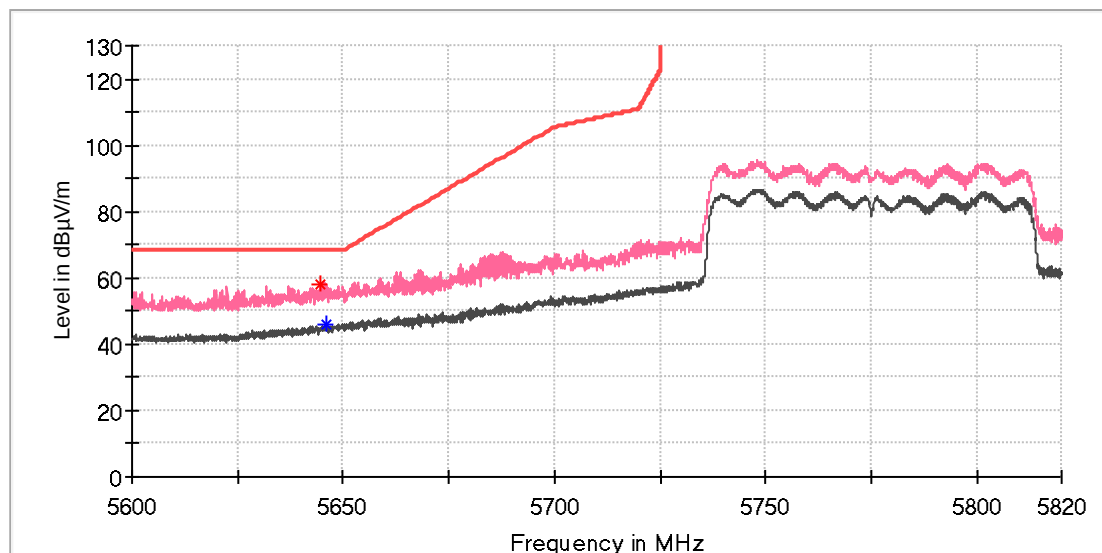


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5639.294445	55.67	68.20	12.53	150.0	H	218.0	13.8
5640.150000	---	---	---	150.0	H	131.0	13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch155
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

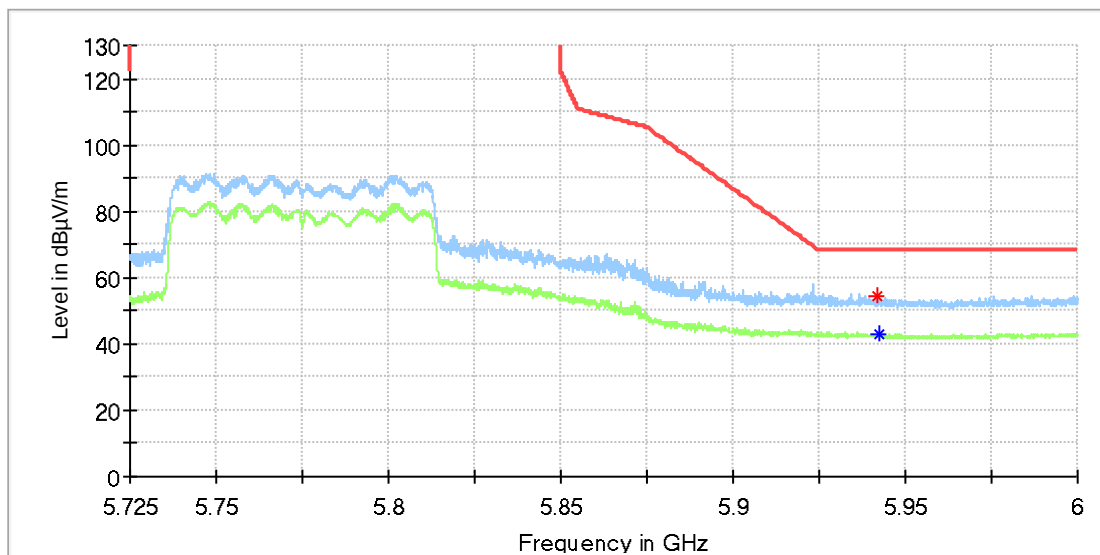


Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5644.672222	58.35	68.20	9.85	150.0	V	193.0	13.8
5645.955556	---	---	---	150.0	V	193.0	13.8

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch155
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

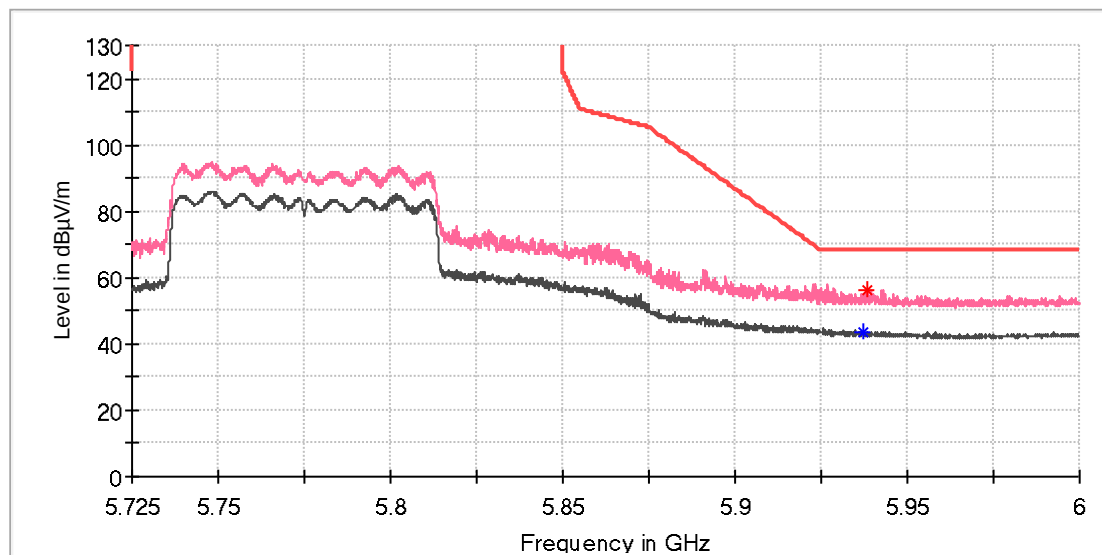


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5941.638889	54.68	68.20	13.52	150.0	H	215.0	14.7
5942.326389	---	---	---	150.0	H	263.0	14.7

EUT Information

EUT Name:	LEGEND 700 HEAD UNIT
Model:	JBLLEGEND700
Test Mode:	WIFI 5G_11AC80_Ch155
Order No/Sample No:	168492002/A003757812-006
Test Voltage::	DC 12V From DC Source
Remark:	Temp 23 Humi:58%
Test Standard:	FCC 15.407
Tested By:	Lich Chen
Reviewed By:	Terry Yin

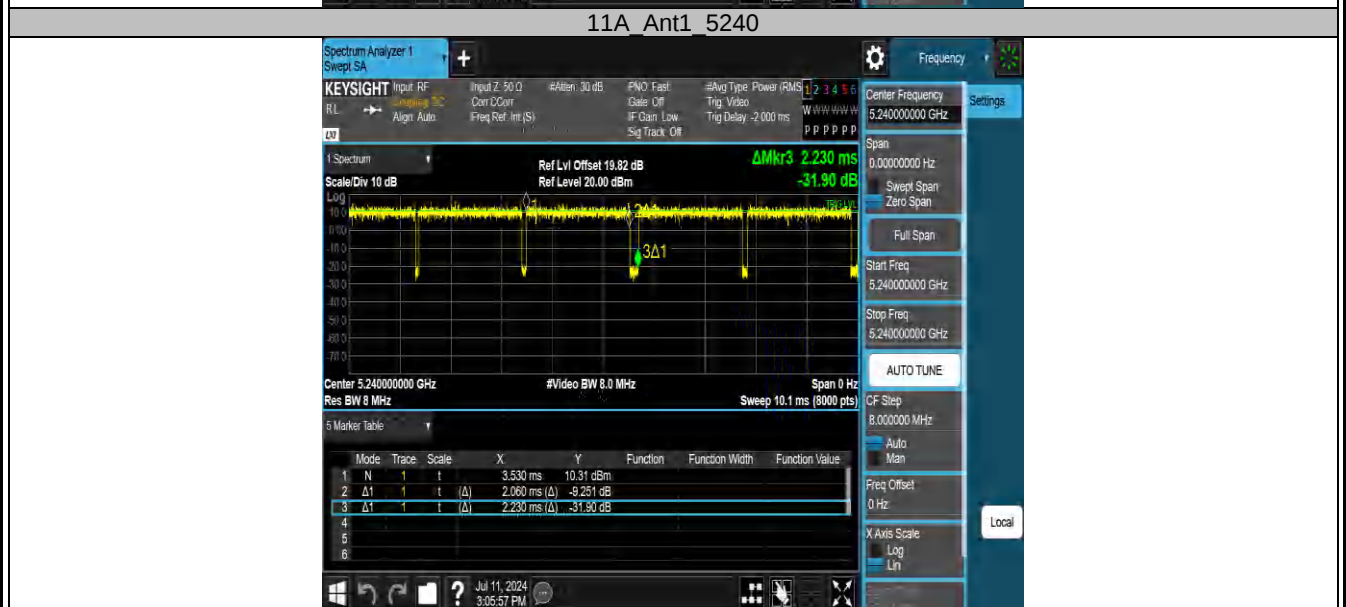
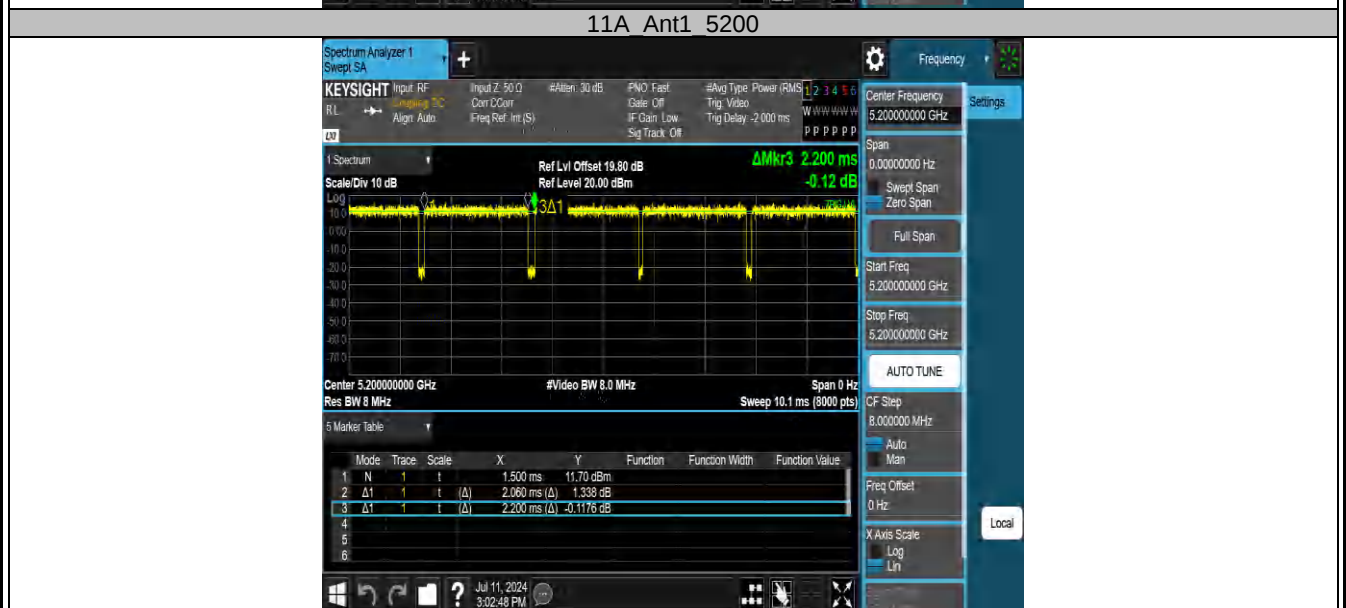
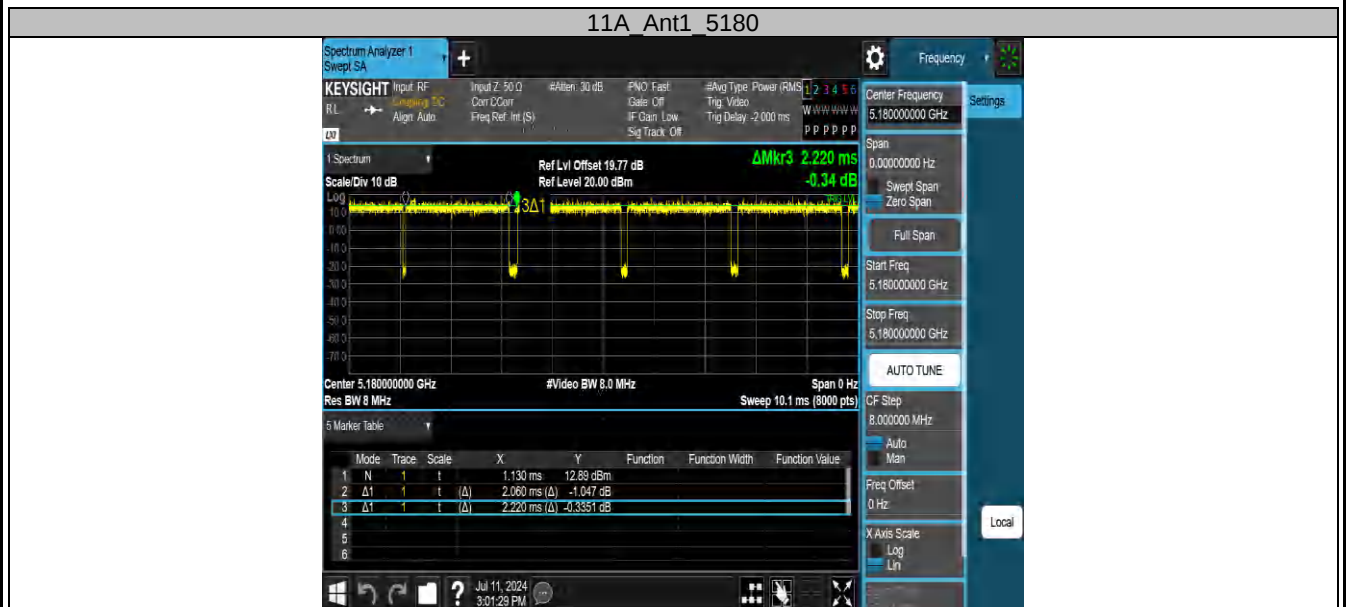


Critical Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
5937.208333	---	---	---	150.0	V	173.0	14.7
5938.201389	56.31	68.20	11.89	150.0	V	179.0	14.7

Appendix A.8: Test Results of Duty Cycle

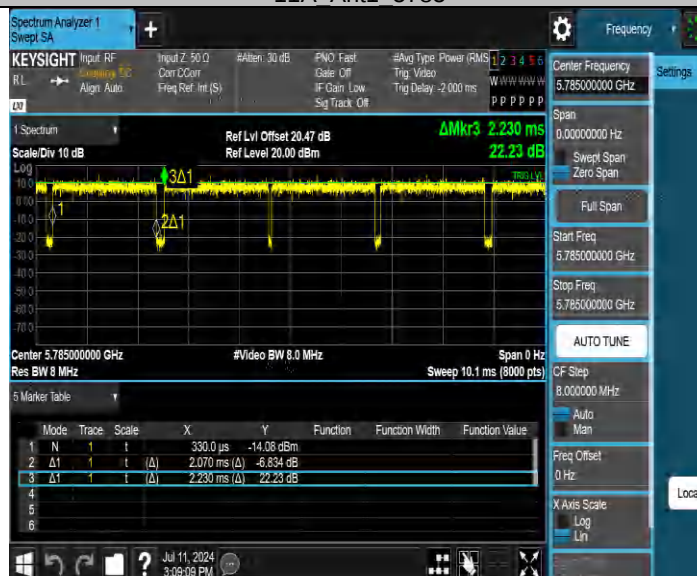
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.06	2.22	92.79
		5200	2.06	2.20	93.64
		5240	2.06	2.23	92.38
		5745	2.06	2.24	91.96
		5785	2.07	2.23	92.83
		5825	2.07	2.24	92.41
11N20SISO	Ant1	5180	1.92	2.09	91.87
		5200	1.92	2.06	93.20
		5240	1.92	2.07	92.75
		5745	1.92	2.06	93.20
		5785	1.92	2.09	91.87
		5825	1.92	2.10	91.43
11N40SISO	Ant1	5190	0.95	1.11	85.59
		5230	0.94	1.11	84.68
		5755	0.95	1.09	87.16
		5795	0.95	1.10	86.36
11AC20SISO	Ant1	5180	1.93	2.11	91.47
		5200	1.94	2.10	92.38
		5240	1.93	2.08	92.79
		5745	1.93	2.07	93.24
		5785	1.94	2.05	94.63
		5825	1.93	2.07	93.24
11AC40SISO	Ant1	5190	0.95	1.11	85.59
		5230	0.95	1.11	85.59
		5755	0.95	1.12	84.82
		5795	0.95	1.12	84.82
11AC80SISO	Ant1	5210	0.46	0.60	76.67
		5775	0.47	0.63	74.60



11A Ant1 5745



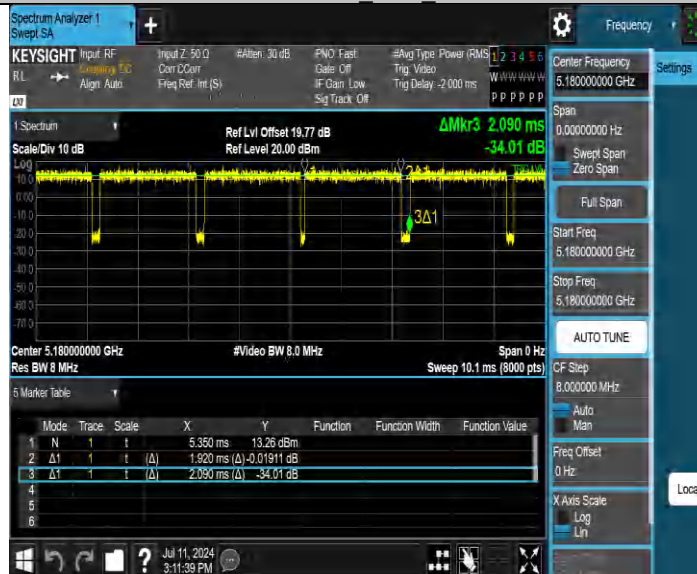
11A Ant1 5785



11A Ant1 5825



11N20SISO Ant1 5180



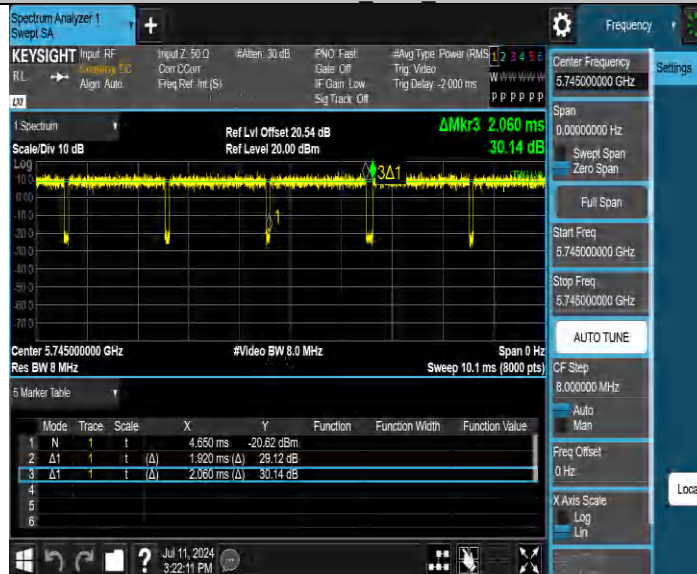
11N20SISO Ant1 5200



11N20SISO Ant1 5240



11N20SISO Ant1 5745



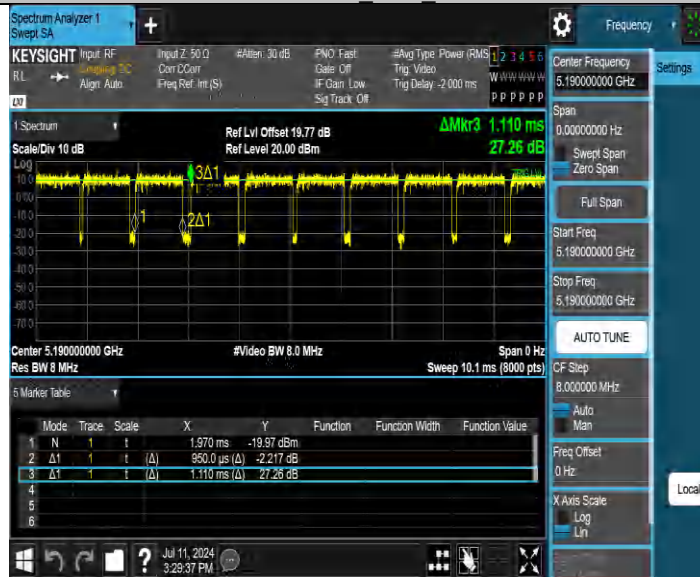
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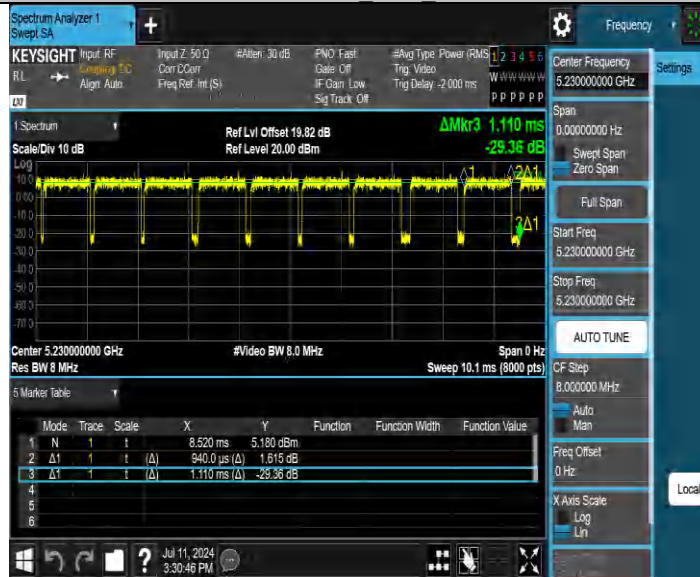
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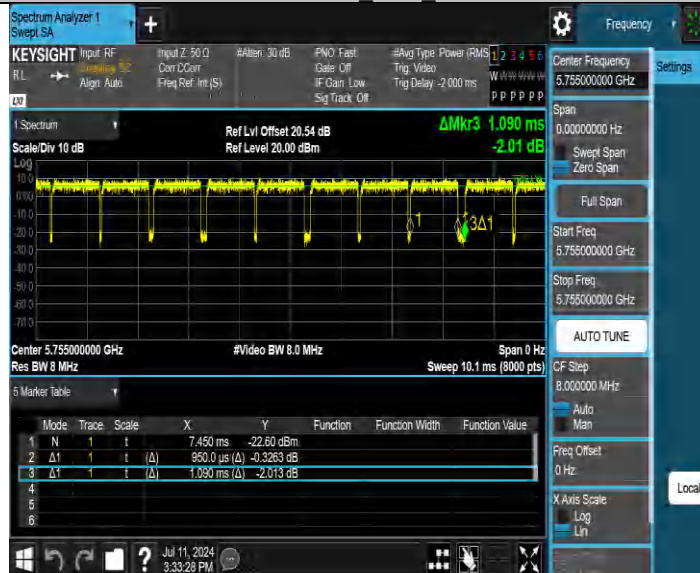
11N40SISO Ant1 5190



11N40SISO Ant1 5230



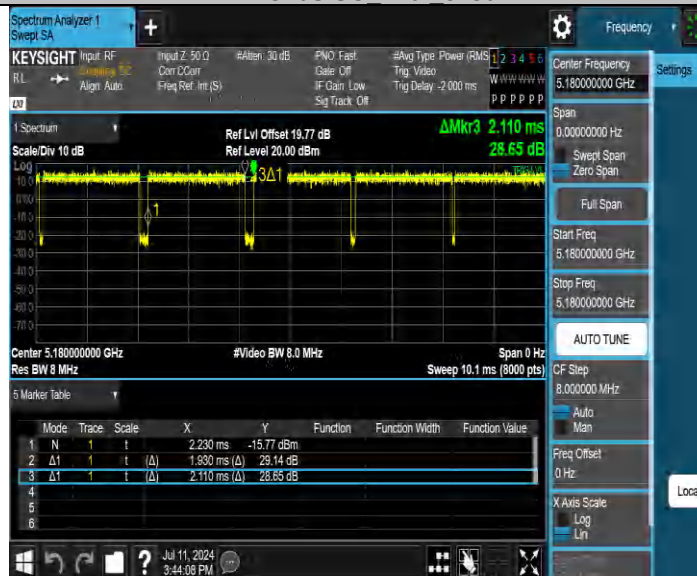
11N40SISO Ant1 5755



11N40SISO Ant1 5795



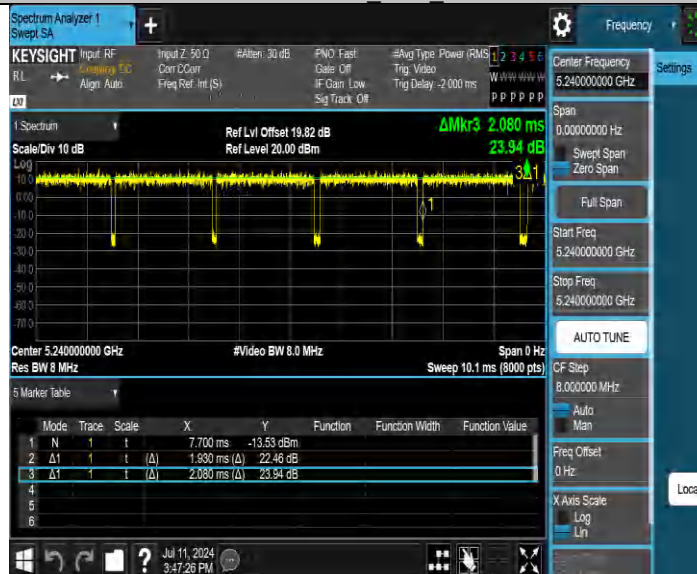
11AC20SISO Ant1 5180



11AC20SISO Ant1 5200



11AC20SISO Ant1 5240



11AC20SISO Ant1 5745



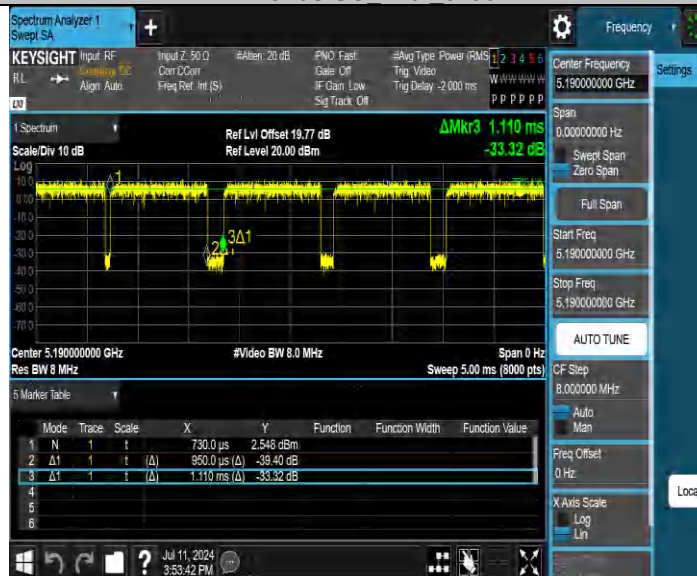
11AC20SISO Ant1 5785



11AC20SISO Ant1 5825



11AC40SISO Ant1 5190



11AC40SISO Ant1 5230



11AC40SISO Ant1 5755



11AC40SISO Ant1 5795



11AC80SISO Ant1 5210



