

Test report No:
2490489R.701A

FCC TEST REPORT

Product Name	5G WiFi 7 Mobile Router
Trademark	ASUS
Model and /or type reference	5G-GO (Series/Type Model : 5G-BE5800 Go)
FCC ID	MSQ-5GBE8100
Applicant's name / address	ASUSTeK Computer Inc. 1F., No. 15, Lide Rd., 112 Beitou Dist., Taipei City, TAIWAN
Test method requested, standard	47 CFR FCC Part 15 (Section 15.247) ANSI C63.10: 2020
Verdict Summary	IN COMPLIANCE
Documented by (name / position & signature)	Tim Cao / Project Manager 
Approved by (name / position & signature)	Frank He / Technical Manager 
Date of issue	2025-11-04
Report Version	V1.0
Report template No	Template_FCC Part 15C-RF-V1.0

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COMPETENCES AND GUARANTEES

DEKRA is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA has a calibration and maintenance program for its measurement equipment.

DEKRA guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated in the report and it is based on the knowledge and technical facilities available at DEKRA at the time of performance of the test.

DEKRA is liable to the client for the maintenance of the confidentiality of all information related to the item under test and the results of the test.

The results presented in this Test Report apply only to the particular item under test established in this document.

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GENERAL CONDITIONS

Test Location A	No. 99, Hongye Road, Suzhou Industrial Park Suzhou, 215006, P.R. China
Test Location B	No. 8213, Fanhua Avenue, Baohe District, Hefei City, Anhui Province, China
Date(receive sample)	Oct. 06, 2024
Date (start test)	Oct. 10, 2024
Date (finish test)	Jul. 05, 2025

1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or Competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA.

ENVIRONMENTAL CONDITIONS

The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:

Ambient temperature	15 °C – 35 °C
Relative Humidity air	30% - 60%

If explicitly required in the basic standard or applied product / product family standard the climatic values are recorded and documented separately in this test report.

POSSIBLE TEST CASE VERDICTS

Test case does not apply to test object	N/A
Test object does meet requirement	P (Pass) / PASS
Test object does not meet requirement	F (Fail) / FAIL
Not measured	N/M

ABBREVIATIONS

For the purposes of the present document, the following abbreviations apply:

EUT	: Equipment Under Test
QP	: Quasi-Peak
CAV	: CISPR Average
AV	: Average
CDN	: Coupling Decoupling Network
SAC	: Semi-Anechoic Chamber
OATS	: Open Area Test Site
BW	: Bandwidth
AM	: Amplitude Modulation
PM	: Pulse Modulation
HCP	: Horizontal Coupling Plane
VCP	: Vertical Coupling Plane
U_N	: Nominal voltage
Tx	: Transmitter
Rx	: Receiver
N/A	: Not Applicable
N/M	: Not Measured

DOCUMENT HISTORY

Report No.	Version	Description	Issued Date
2490489R.701A	V1.0	Initial issue of report.	2025-11-04

REMARKS AND COMMENTS

1. The equipment under test (EUT) does meet the essential requirements of the stated standard(s)/test(s).
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with 47 CFR FCC Part 15 (Section 15.247).
3. The measurement result is considered in conformance with the requirement if it is within the prescribed limit, It is not necessary to account the uncertainty associated with the measurement result.
4. The test results presented in this report relate only to the object tested.
5. The test report shall not be reproduced without the written approval of DEKRA Testing and Certification (Suzhou) Co., Ltd.
6. This report will not be used for social proof function in China market.
7. DEKRA declines any responsibility with the following test data provided by customer that may affect the validity of result:
 - Chapter 1 General Information.

USED EQUIPMENT

Test Location A :AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100726	2026.05.17
Two-Line V-Network	R&S	ENV216	101044	2025.10.25
Current Probe	R&S	EZ-17	100678	2025.10.18
50ohm Coaxial Switch	Anritsu	MP59B	6200464462	2026.03.15
50ohm Termination	Xinghu	N/A	N/A	2026.01.10
Temperature/Humidity Meter	RTS	RTS-1909	THM-012	2026.04.29
Coaxial Cable	Suhner	RG 223	TR1-C1	2026.03.15
Dekra test software	Dekra	N/A	N/A	N/A

Test Location A :Conducted Test / TR8

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
Wireless Connectivity Tester	R&S	CMW 270	102593	2026.05.09
Coaxial Cable	N/A	N/A	2477	2026.06.09
Coaxial Cable	N/A	N/A	2478	2026.06.09
High and low temperature and fast temperature change test box	ASTUOD	ASTD-FBT-225K	N/A	2026.03.14
Temperature/Humidity Meter	RTS	RTS-8S	N/A	2026.06.16
Power Meter	Anritsu	MA2411B	1339267	2025.08.21
MAX Signal Analyzer	Keysight	N9010A	THM-032	2025.10.25
RF Control Unit	Tonscend	JS0806-2	MY48030494	2026.01.25
MXG-B RF Vector Signal Generator	Keysight	N5182B	22G8060594	2026.03.22
Frequency extender for EXG or MXG	Keysight	N5182BX07	MY61252529	2026.03.22
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY59362500	2026.03.22
Test Software	Tonscend	TS1120	MY61252566	N/A

Test Location A :Radiated Emission(9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
EMI Test Receiver	R&S	ESCI	100573	2026.01.10
Loop Antenna	R&S	HFH2-Z2E	101149	2026.04.15
Bilog Antenna	Teseq GmbH	CBL6112D	27611	2026.03.23
Temperature/Humidity Meter	RTS	RTS-1909	THM-021	2026.04.29
Coaxial Cable	Huber+Suhner	SUCOFLEX 106	AC2-C	2026.03.15
Dekra test software	Dekra	N/A	N/A	N/A

Test Location B: Radiated Emission Band Edge / AC103

Instrument	Manufacturer	Model No.	Serial No.	Next Cal. Date
Signal analyzer	keysight	N9020B	MY63490118	2025.07.25
Bilog Antenna	TESEQ	CBL6112D	64164	2025.11.22

Horn Antenna	RF SPIN	DRH18-E	KV2D11A18ES	2025.11.01
Broad-Band Horn Antenna	Schwarzbeck	BBHA9170	01312	2025.10.27
Amplifier	ESE	LNA0118	LNA23100009	2025.08.09
Amplifier	Tonscend	TAP01018048S	AP23J8060307	2025.11.15
Band Reject Filter Group	Tonscend	JS0806-F	23G806F0701	2025.11.19
Temperature/Humidity Meter	RTS	RTS-8S	026	2025.09.03
Test Software	Tonscend	JS36	N/A	N/A

Test Location A :AC Power Line Conducted Emission / TR1

Instrument	Manufacturer	Model No.	Serial No.	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100726	4.42 SP3	N/A
Dekra test software	Dekra	N/A	N/A	N/A	3

Test Location A :Conducted Test / TR8

Instrument	Manufacturer	Model No.	Serial No.	Firmware Version	Software version
Wireless Connectivity Tester	R&S	CMW 270	102593	V 4.0.60	N/A
MAX Signal Analyzer	Keysight	N9010A	MY48030494	A.14.03	N/A
MXG-B RF Vector Signal Generator	Keysight	N5182B	MY61252529	B.01.96	N/A
EXG-B MW Analog Signal Generator	Keysight	N5173B	MY61252566	B.01.95	N/A
Test Software	Tonscend	TS1120	JS1120-3	N/A	V3.0.22

Test Location A :Radiated Emission(9KHz-1GHz) / AC2

Instrument	Manufacturer	Model No.	Serial No.	Firmware Version	Software version
EMI Test Receiver	R&S	ESCI	100573	4.42 SP2	N/A
Dekra test software	Dekra	N/A	N/A	N/A	3

Test Location B: Radiated Emission Band Edge / AC103

Instrument	Manufacturer	Model No.	Serial No.	Firmware Version	Software version
Signal analyzer	keysight	N9020B	MY63490118	A 08.54	N/A
Dekra test software	Dekra	N/A	N/A	N/A	V5.0

UNCERTAINTY

Uncertainties have been calculated according to the DEKRA internal document. The reported expanded uncertainties are based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95% .

Test item Test Location A	Uncertainty
AC Power Line Conducted Emission	9kHz~150kHz: 2.8 dB 150kHz~30MHz: 2.4 dB
Peak Power Output	± 1.3 dB
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 3.5 dB, 300MHz~1GHz: 3.6 dB Vertical: 30MHz~300MHz: 3.6 dB, 300MHz~1GHz: 3.5 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~40GHz: 5.0 dB Vertical: 1GHz~40GHz: 4.8 dB
RF antenna conducted test	± 1.3 dB
Radiated Emission Band Edge	± 5.0 dB
DTS Bandwidth	± 1.0 kHz
Occupied Bandwidth	± 1.0 kHz
Power Density	± 1.3 dB

Test item Test Location B	Uncertainty
Radiated Emission(30MHz~1GHz)	Horizontal: 30MHz~300MHz: 4.9 dB, 300MHz~1GHz: 4.9 dB Vertical: 30MHz~300MHz: 4.9 dB, 300MHz~1GHz: 4.9 dB
Radiated Emission(1GHz~40GHz)	Horizontal: 1GHz~40GHz: 6.0 dB Vertical: 1GHz~40GHz: 5.8 dB
Radiated Emission Band Edge	± 6.0 dB

1 GENERAL INFORMATION

Product Name	5G WiFi 7 Mobile Router	
Trademark	ASUS	
Model No.	5G-GO (Series/Type Model: 5G-BE5800 Go)	
FCC ID.....	MSQ-5GBE8100	
Operating Temperature	0℃ ~ 40℃	
Power Supply	DC: 3.85 Vdc Battery: 3.85 V, 4 A, 6000mAh AC: 100 – 240 Vac ~ 50 / 60 Hz, 1.2 A, 45W Max	
Manufacturer	ASUSTeK Computer Inc.	
Manufacturer address	1F., No. 15, Lide Rd., 112 Beitou Dist., Taipei City, TAIWAN	
Test Matrix/ IMEI	RF Conducted	355219119002076
	RSE	355219119002233
Wireless 10pecification.....	802.11b / g / n / ac / ax / be	
Operating frequency range(s)	2412~2462MHz	
Type of Modulation	802.11b:DSSS	
	802.11g / n / ac / ax / be: OFDM	
	802.11ax / be: OFDMA	
Channel Spacing	802.11b / g / n / ac / ax / be:20MHz	
	802.11n / ac / ax / be:40MHz	
Smart System	☐	SISO
	☒	MIMO-CDD
	☐	MIMO-Beamforming
Antenna Type	FPC	
Antenna Gain	Ant1: 3.67 dBi Ant2: 3.13 dBi	

Remark:

As above information is provided and confirmed by the applicant. DEKRA is not liable to the accuracy, suitability, reliability or/and integrity of the information.

2 DESCRIPTION OF TEST SETUP

Auxiliary equipment	Type / Version	Manufacturer	Supplied by
(1) Notebook	ThinkPad T14	Lenovo	Adapter
(2) USB Control Cable	N/A	N/A	N/A
(3) USB Control Cable	N/A	N/A	N/A
software	Type / Version	Manufacturer	Supplied by
QRCT	N/A	N/A	N/A

Accessories Information	Cable		
	Length used during test [m]	Attached during test	Shielded
(2)USB Control Cable	1	☒	☐
(3)USB Control Cable	8	☒	☐

3 VERDICT SUMMARY SECTION

This chapter presents an overview of standards and results. Refer to the next chapters for details of measured test results and applied test levels.

3.1 Standards

Standard	Year	Description
CFR 47, FCC Part 15 C	2024	Operation within the bands 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz.
ANSI C63.10	2020	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Deviation(s) from the Standard(s) / Test Specification(s)

The following deviation(s) was / were made from the published requirements of the listed standards: N/A.
(Please define the deviations from the standard(s) if applicable)

3.3 Overview of results

Requirement – Test Item	Standard(s)	Verdict	Tset Location	Remark
DTS Bandwidth	FCC 15.247(a)(2)	PASS	A	Test data please refer to Appendix A
Maximum conducted output power	15.247 (b)(3)	PASS	A	Test data please refer to Appendix B
Maximum power spectral density	FCC 15.247 (b)(3)	PASS	A	Test data please refer to Appendix C
Band edge measurements	FCC 15.247(d) FCC 15.205 FCC 15.209	PASS	B	Test data please refer to Appendix D
Conducted Spurious Emission	FCC 15.247(d), FCC 15.209	PASS	A	Test data please refer to Appendix E
Duty cycle	ANSI C63.10	PASS	A	Test data please refer to Appendix F
Emissions in Restricted Bands	FCC 15.205 FCC 15.209	PASS	B	Test data please refer to Appendix G
AC Power Line Conducted Emission	FCC 15.207	PASS	A	Test data please refer to Appendix H
Antenna Requirement	FCC 15.203	PASS	---	---

3.4 Worst-case configuration and mode

Notes:

1. Low data rate was used to test on antenna port conducted tests and radiated spurious emissions since it has the highest maximum power.
2. The modulation and bandwidth are similar for 802.11n mode for 20 MHz (40 MHz), 802.11ac mode for 20 MHz (40 MHz), 802.11ax mode for 20 MHz (40 MHz) and 802.11be mode for 20 MHz(40 MHz) therefore the manufacturer will control the power for 802.11 n/ac/be mode is same as the 802.11ax mode or more lower than it and investigated worst case to representative mode in test report.

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency for 802.11 b/g/n/ac/ax/be (20M)	Frequency for 802.11n/ac/ax/be (40M)
The Lowest channel	2412MHz	2422MHz
The Middle channel	2437MHz	2437MHz
The Highest channel	2462MHz	2452MHz

3.5 Test Facility

Tset Location A	:	FCC Designation Number: CN1199
Tset Location B	:	FCC Designation Number: CN1321

4 TEST ITEMS OF LIMIT/SETUP/PROCEDURE

4.1 DTS Bandwidth

VERDICT: PASS

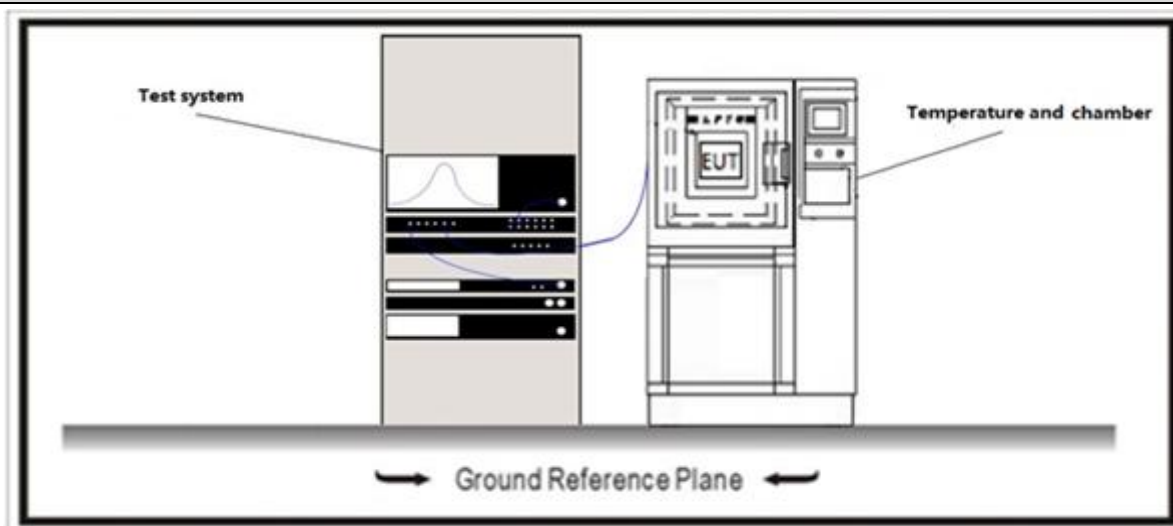
4.1.1 Limit

Standard

FCC Part 15 Subpart C Paragraph 15.247 (a)(2);

Systems using digital modulation techniques operate in the 2400-2483.5 MHz. The minimum 6 dB bandwidth shall be at least 500 kHz

4.1.2 Test Setup



4.1.3 Test Procedure

	Reference Rule	Chapter	Description
☒	ANSI C63.10	11.8	DTS bandwidth
☒	ANSI C63.10	11.8.1	Option 1
☐	ANSI C63.10	11.8.2	Option 2

4.2 Maximum Conducted Output Power

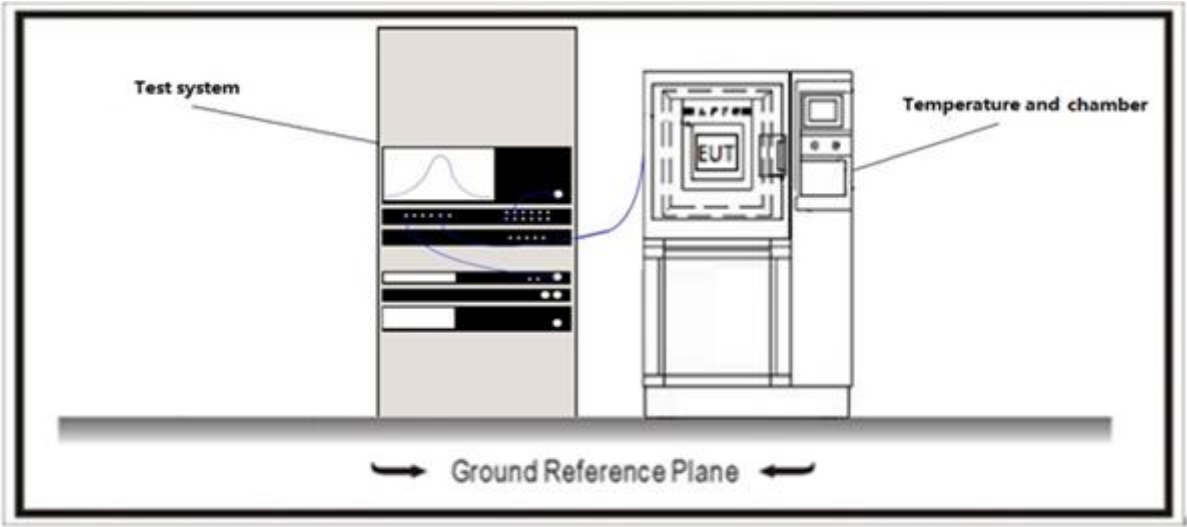
VERDICT: PASS

4.2.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247 (b)(3);	
☒	GTX <6dBi	Pout≤30dBm

Note 1 : GTX directional gain of transmitting antennas.
Note 2 : Pout is maximum peak conducted output power .

4.2.2 Test Setup



4.2.3 Test Procedure

	References Rule				Chapter	Description	
☒	ANSI C63.10				11.9	Fundamental emission output power	
	☒	ANSI C63.10			11.9.2	Maximum conducted (average) output power	
		☐	ANSI C63.10			11.9.2.2	Measurement using a spectrum analyzer (SA)
		☒	ANSI C63.10			11.9.2.3	Measurement using a power meter (PM)
			☒	ANSI C63.10	11.9.2.3.1	Method AVGPM	
			☐	ANSI C63.10	11.9.2.3.2	Method AVGPM-G	

4.3 Maximum Power Spectral Density

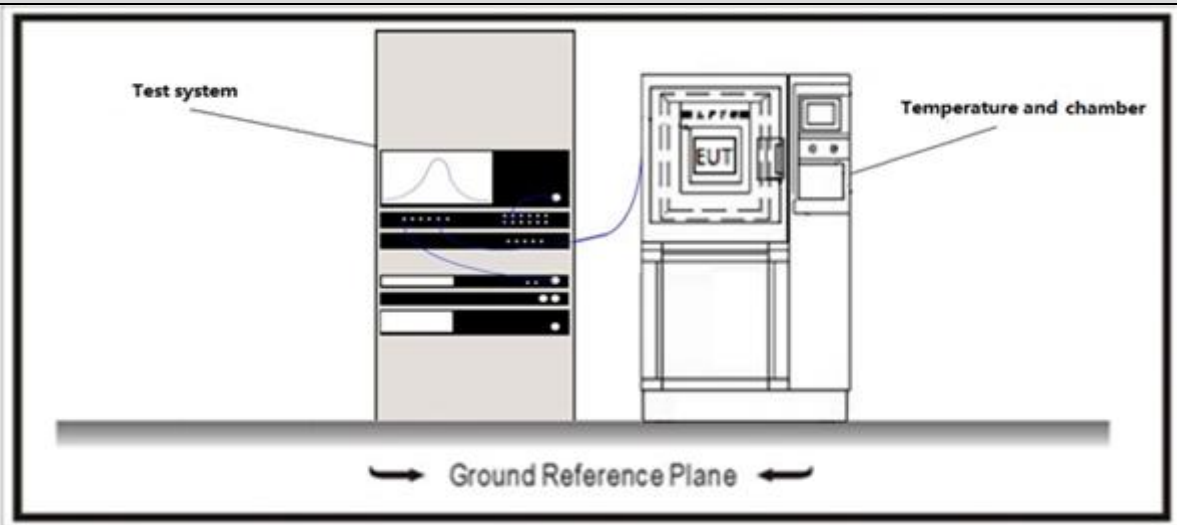
VERDICT: PASS

4.3.1 Limit

Standard FCC Part 15 Subpart C Paragraph 15.247 (b)(3);

 Power Spectral Density $\leq 8\text{dBm}/3\text{kHz}$

4.3.2 Test Setup



4.3.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.10	Maximum power spectral density level in the fundamental emission
	☒	ANSI C63.10	11.10.2	Method PKPSD (peak PSD)
	☐	ANSI C63.10	11.10.8	Method AVGPSD-3A

4.4 Band Edge Measurements

VERDICT: PASS

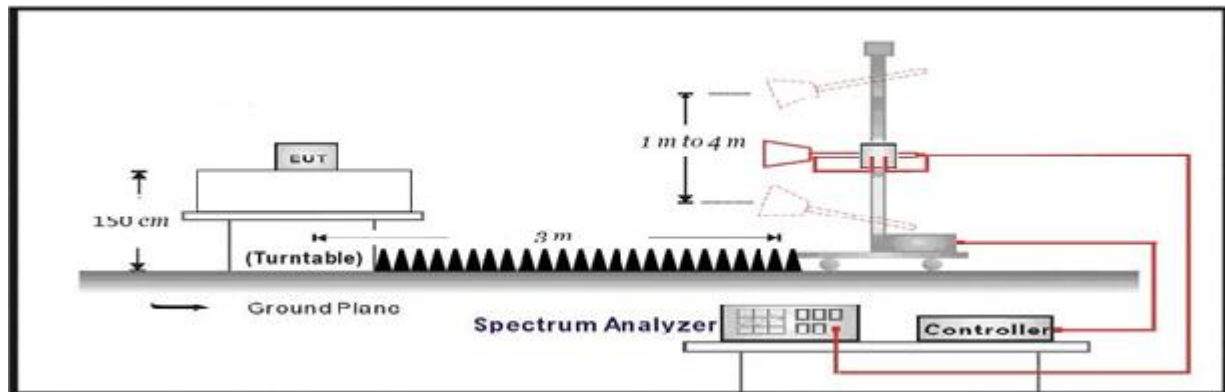
4.4.1 Limit

Standard		FCC Part 15 Subpart C Paragraph 15.247(d) , 15.209;		
Frequency bands (MHz)	Detector	Limit (dB μ V/m)	RBW (MHz)	Distance (m)
2310-2390	PK	74	1	3
2483.5-2500	AV	54	1	3

Note: The field strength of emissions appearing within these frequency bands shall not exceed the limits.

4.4.2 Test Setup

Above 1GHz Test Setup:



4.4.3 Test Procedure

	References Rule	Chapter	Description
☒	ANSI C63.10	6.10	Band-edge testing
☒	ANSI C63.10	6.10.5	Restricted-band band-edge measurements
☐	ANSI C63.10	6.10.6	Marker-delta method
☒	ANSI C63.10	11.12	Emissions in restricted frequency bands
☒	ANSI C63.10	11.12.1	Radiated emission measurements
☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
☐	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
☐	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.5 Conducted Spurious Emission

VERDICT: PASS

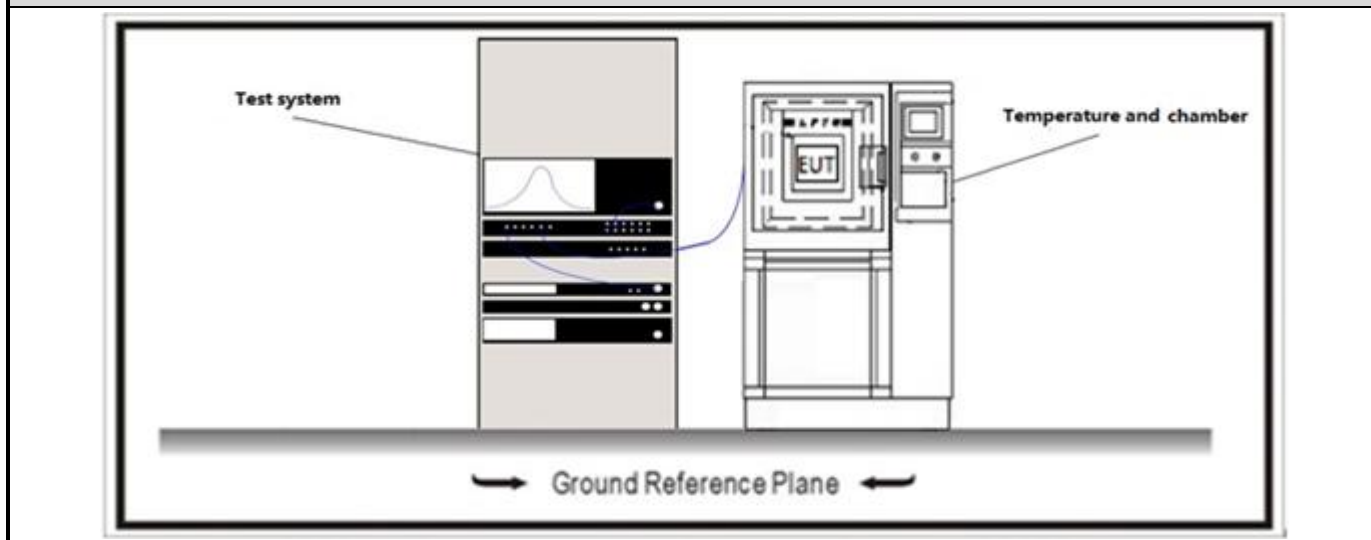
4.5.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.247(d);
RF Output power (Detection methods)	Limit(dB)
RF Output power(Average detector)	30dBc(Note1)
RF Output power(PK detector)	20dBc(Note2)

Note 1: If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).

Note 2: If the maximum peak conducted output power procedure was used, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).

4.5.2 Test Setup

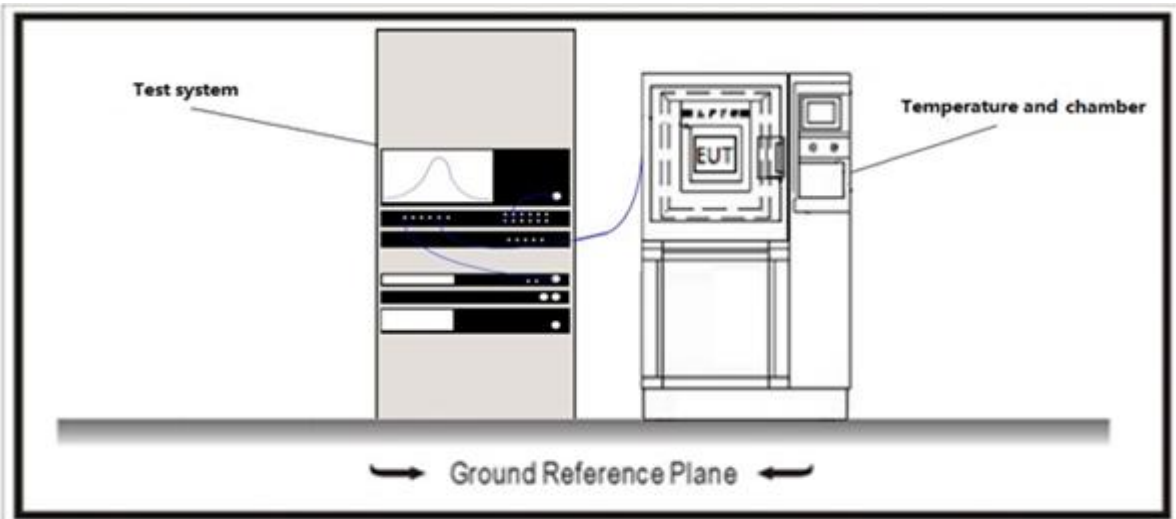


4.5.3 Test Procedure

References Rule	Chapter	Description
☒ ANSI C63.10	11.11	Emissions in non-restricted frequency bands
☒ ANSI C63.10	11.11.1	General
☒ ANSI C63.10	11.11.2	Reference level measurement
☒ ANSI C63.10	11.11.3	Emission level measurement

4.6 Duty cycle**VERDICT: PASS****4.6.1 Limit**

N/A

4.6.2 Test Setup**4.6.3 Test Procedure**

References Rule		Chapter	Description
☒	ANSI C63.10	11.6	Duty cycle (D), transmission duration (T), and maximum power control level

4.7 Emissions in Restricted Bands**VERDICT: PASS****4.7.1 Limit****Standard** FCC Part 15 Subpart C Paragraph 15.205

Restricted Bands of operation

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (GHz)
0.090 – 0.110	16.42 – 16.423	399.9 – 410	4.5 – 5.15
0.495 – 0.505	16.69475 – 16.69525	608 – 614	5.35 – 5.46
2.1735 – 2.1905	16.80425 – 16.80475	960 – 1240	7.25 – 7.75
4.125 – 4.128	25.5 – 25.67	1300 – 1427	8.025 – 8.5
4.17725 – 4.17775	37.5 – 38.25	1435 – 1626.5	9.0 – 9.2
4.20725 – 4.20775	73 – 74.6	1645.5 – 1646.5	9.3 – 9.5
6.215 – 6.218	74.8 – 75.2	1660 – 1710	10.6 – 12.7
6.26775 – 6.26825	108 – 121.94	1718.8 – 1722.2	13.25 – 13.4
6.31175 – 6.31225	123 – 138	2200 – 2300	14.47 – 14.5
8.291 – 8.294	149.9 – 150.05	2310 – 2390	15.35 – 16.2
8.362 – 8.366	156.52475 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2690 – 2900	22.01 – 23.12
8.81425 – 8.81475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.52025	240 – 285	3345.8 – 3358	36.43 – 36.5
12.57675 – 12.57725	322 – 335.4	3600 – 4400	
13.36 – 13.41			

Restricted Band Emissions Limit

FCC Part 15 Subpart C Paragraph 15.209

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Measurement distance (m)
0.009 - 0.49	2400/F(kHz)	48.5 – 13.8	300 _(Note 1)
0.49 - 1.705	24000/F(kHz)	33.8 - 23	30 _(Note 1)
1.705 - 30	30	29.5	30 _(Note 1)
30 - 88	100	40	3 _(Note 2)
88 - 216	150	43.5	3 _(Note 2)
216 - 960	200	46	3 _(Note 2)
Above 960	500	54	3 _(Note 2)

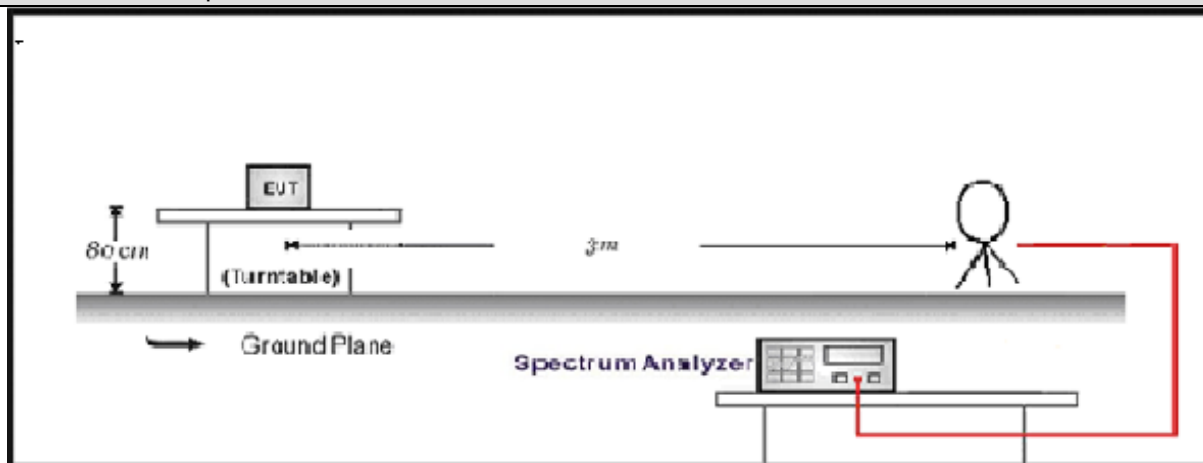
Note 1: At frequencies below 30 MHz, measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. Pending the development of an appropriate measurement procedure for measurements performed below 30 MHz, when performing measurements at a closer distance than specified, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade).

Note 2: At frequencies at or above 30 MHz, measurements may be performed at a distance other than what is specified provided: measurements are not made in the near field except where it can be shown that near field measurements are appropriate due to the characteristics of the device; and it can be demonstrated that the signal levels needed to be measured at the distance employed can be detected by the measurement equipment.

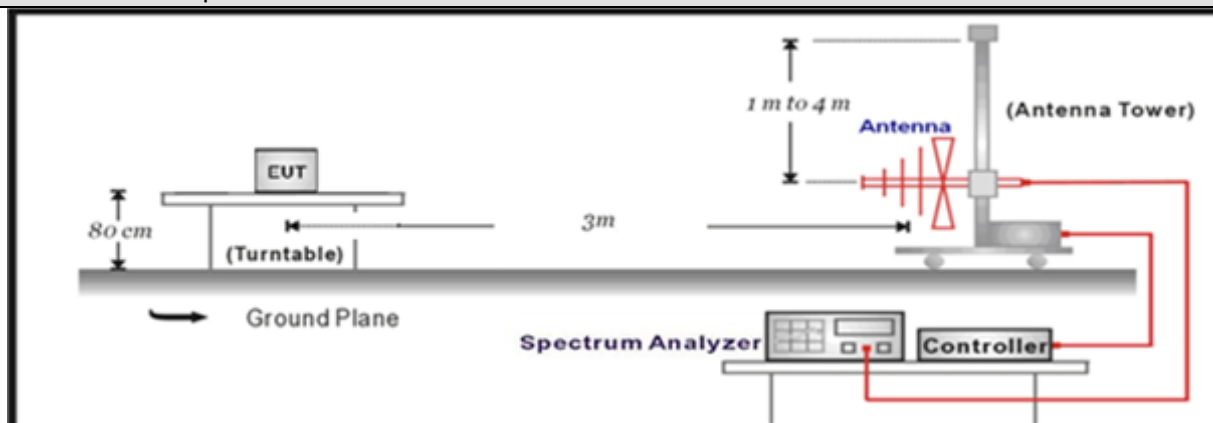
Measurements shall not be performed at a distance greater than 30 meters unless it can be further demonstrated that measurements at a distance of 30 meters or less are impractical. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse linear-distance for field strength measurements; inverse-linear-distance-squared for power density measurements).

4.7.2 Test Setup

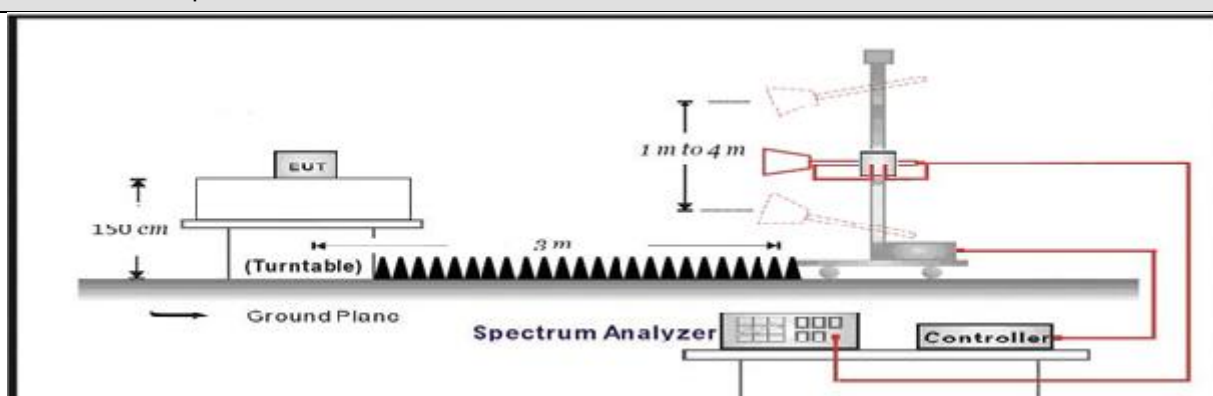
Below 30MHz Test Setup:



30MHz-1GHz Test Setup:



Above 1GHz Test Setup:



4.7.3 Test Procedure

	References Rule		Chapter	Description
☒	ANSI C63.10		11.12	Emissions in restricted frequency bands
	☒	ANSI C63.10	11.12.1	Radiated emission measurements
	☒	ANSI C63.10	11.12.2.7	Radiated spurious emission test
	☒	ANSI C63.10	6.4	Radiated emissions from unlicensed wireless devices below 30 MHz
	☒	ANSI C63.10	6.5	Radiated emissions from unlicensed wireless devices in the frequency range of 30 MHz to 1000 MHz
	☒	ANSI C63.10	6.6	Radiated emissions from unlicensed wireless devices above 1 GHz

4.8 AC Power Line Conducted Emission

VERDICT: PASS

4.8.1 Limit

Standard	FCC Part 15 Subpart C Paragraph 15.207 ;	
Frequency range [MHz]	Limit: QP [dB(μV) ¹⁾]	Limit: AV [dB(μV) ¹⁾]
0,15 - 0,50	66 - 56 ²⁾	56 - 46 ²⁾
0,50 - 5,0	56	46
5,0 - 30	60	50

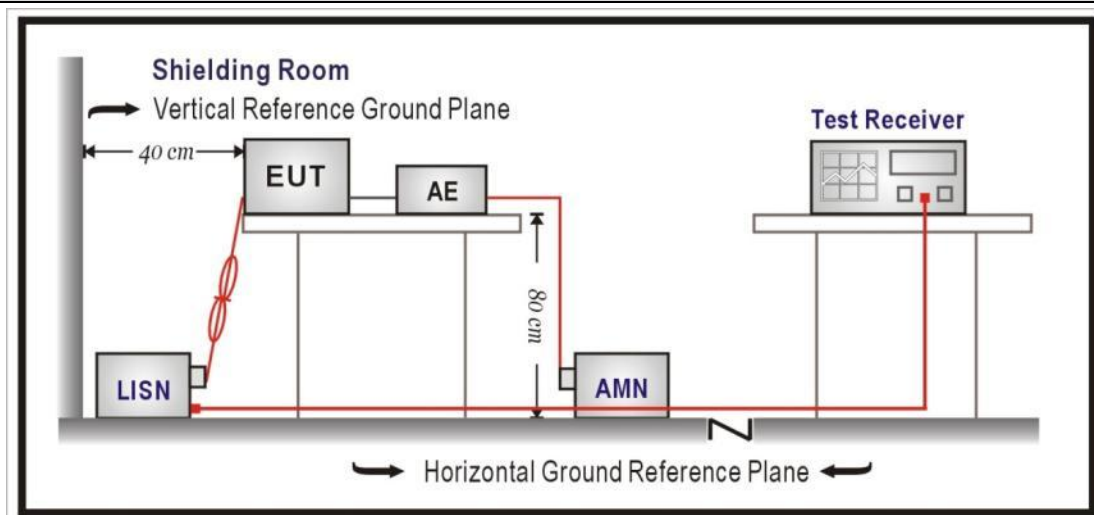
¹⁾ At the transition frequency, the lower limit applies.

²⁾ The limit decreases linearly with the logarithm of the frequency.

NOTE 1: The exclusion band for transmitters shall be considered for transmitters operating at frequencies below 30 MHz.

NOTE 2: Where the AC output port is directly connected (or via a circuit breaker) to the AC power input port of the EUT the AC power output port need not to be tested.

4.8.2 Test Setup



4.9.3 Test Procedure

	References Rule	Chapter	Item
☒	ANSI C63.10	6.2	Standard test method for ac power-line conducted emissions from unlicensed wireless devices

4.9 Antenna Requirement**VERDICT: PASS****4.9.1 Limit:****Standard**

FCC Part 15 Subpart C Paragraph 15.203;

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

4.9.2 Antenna Connector Construction:

The use of a permanently attached antenna



The antenna use of a unique coupling to the intentional radiator



The use of a nonstandard antenna jack or electrical connector

Please refer to the attached document "Internal Photograph" to show the antenna connector.

5 TEST SETUP PHOTO AND EUT PHOTO

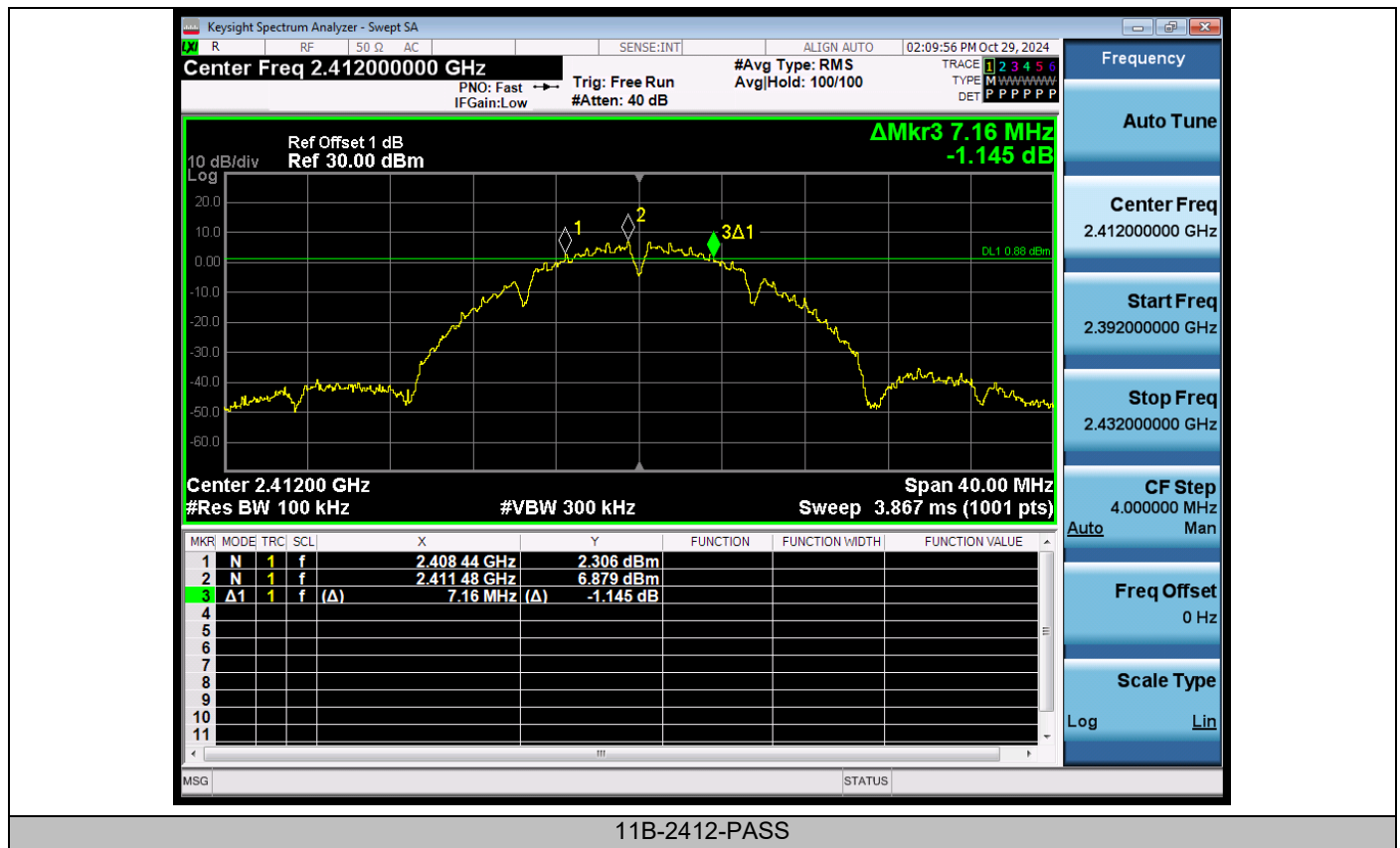
Remark: The test setup photo and EUT Photo please see appendix.

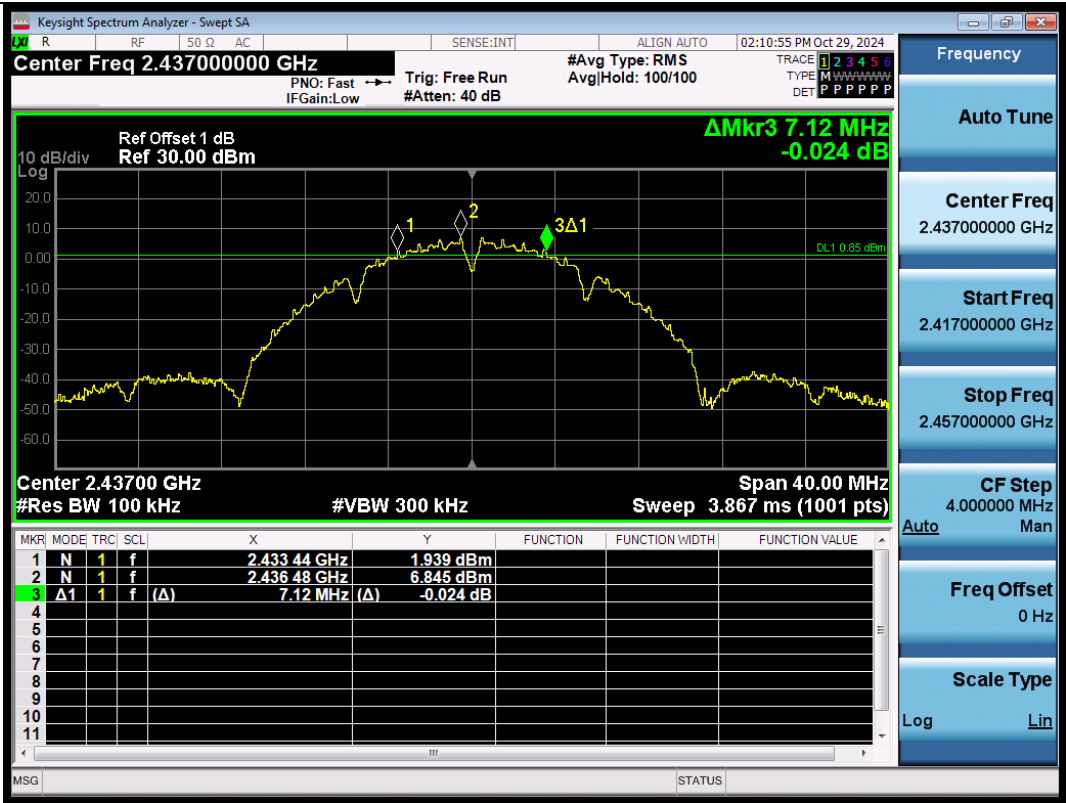
6 TEST RESULT

Appendix A: DTS Bandwidth

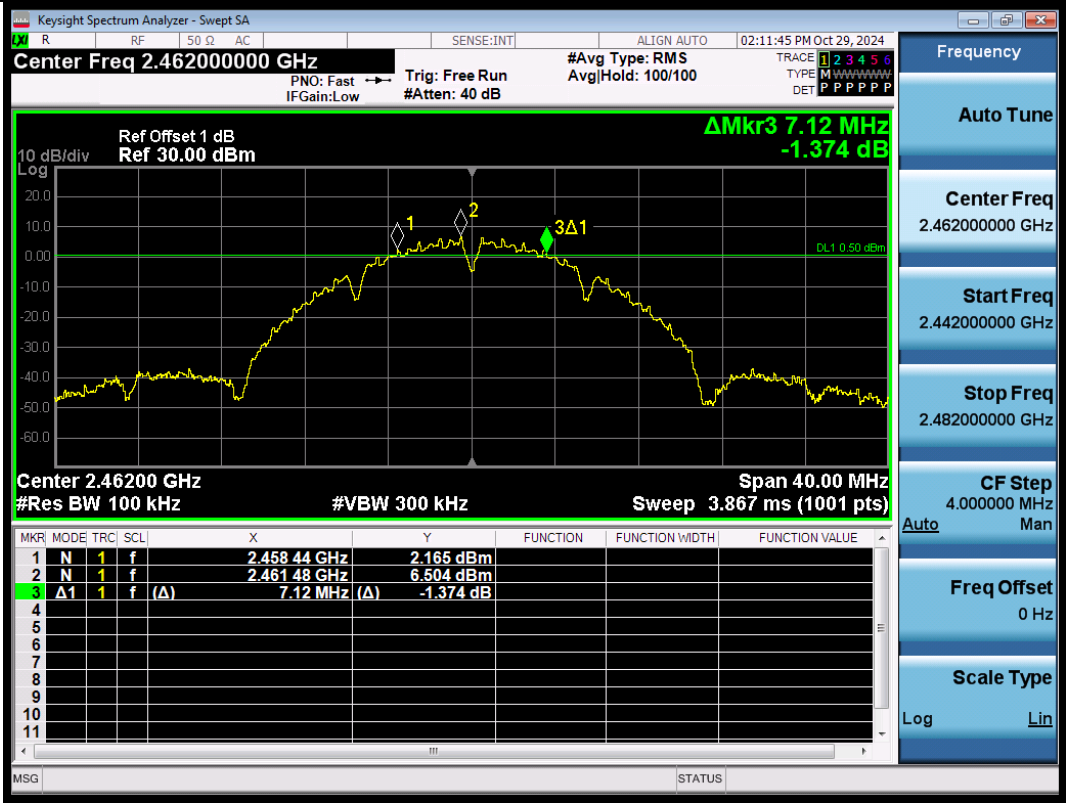
TestMode	Frequency [MHz]	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	2412	7.160	2408.440	2415.600	0.5	PASS
11B	2437	7.120	2433.440	2440.560	0.5	PASS
11B	2462	7.120	2458.440	2465.560	0.5	PASS
11G	2412	16.400	2403.800	2420.200	0.5	PASS
11G	2437	16.320	2428.840	2445.160	0.5	PASS
11G	2462	16.400	2453.800	2470.200	0.5	PASS
11AX20	2412	19.000	2402.480	2421.480	0.5	PASS
11AX20	2437	19.040	2427.480	2446.520	0.5	PASS
11AX20	2462	19.160	2452.360	2471.520	0.5	PASS
11AX40	2422	38.000	2403.040	2441.040	0.5	PASS
11AX40	2437	38.160	2417.960	2456.120	0.5	PASS
11AX40	2452	38.080	2432.960	2471.040	0.5	PASS

Test Graphs

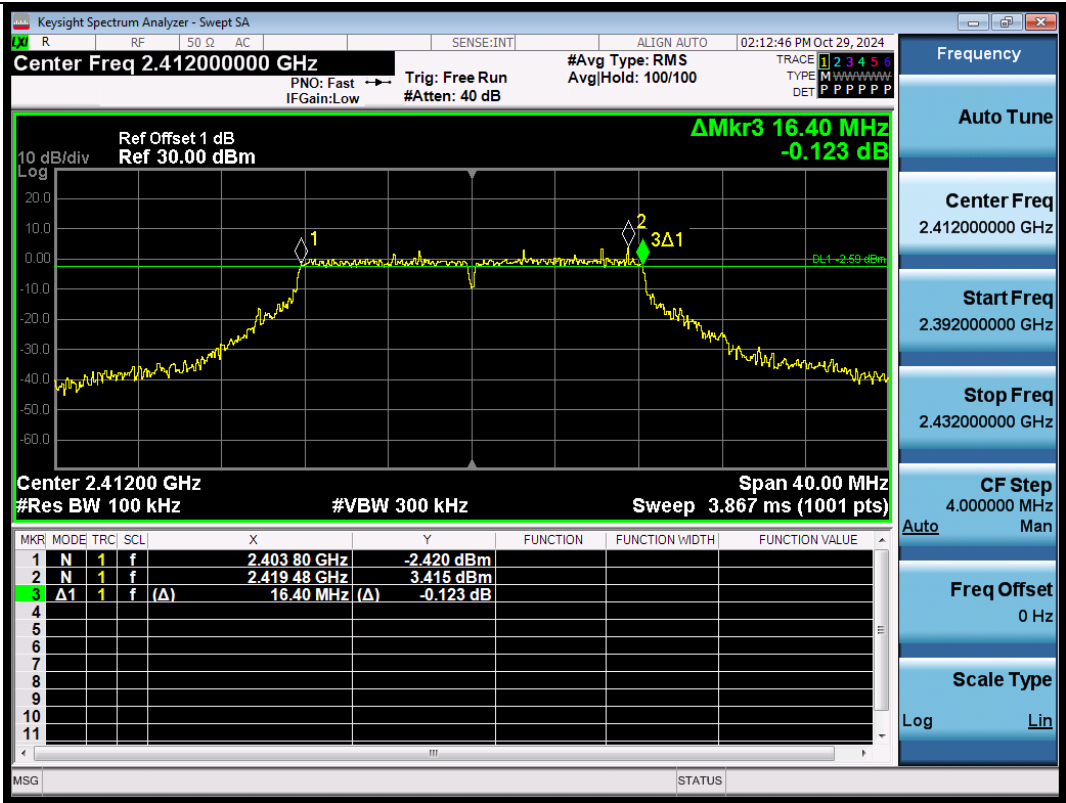




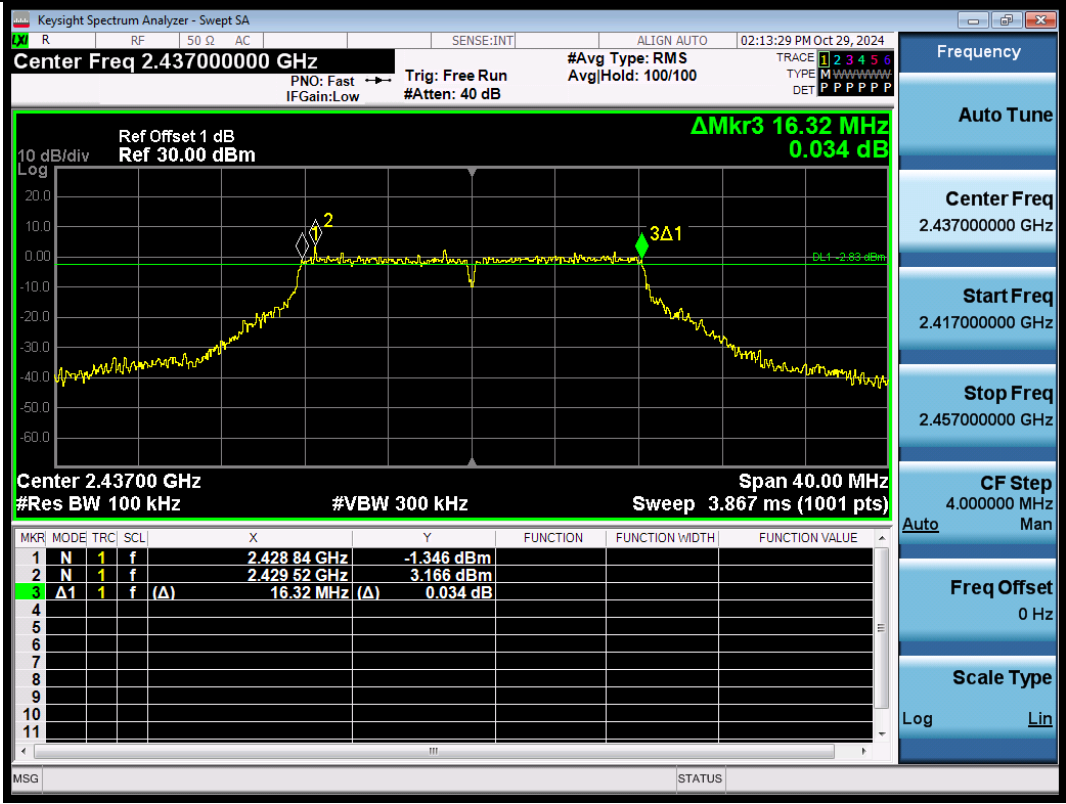
11B-2437-PASS



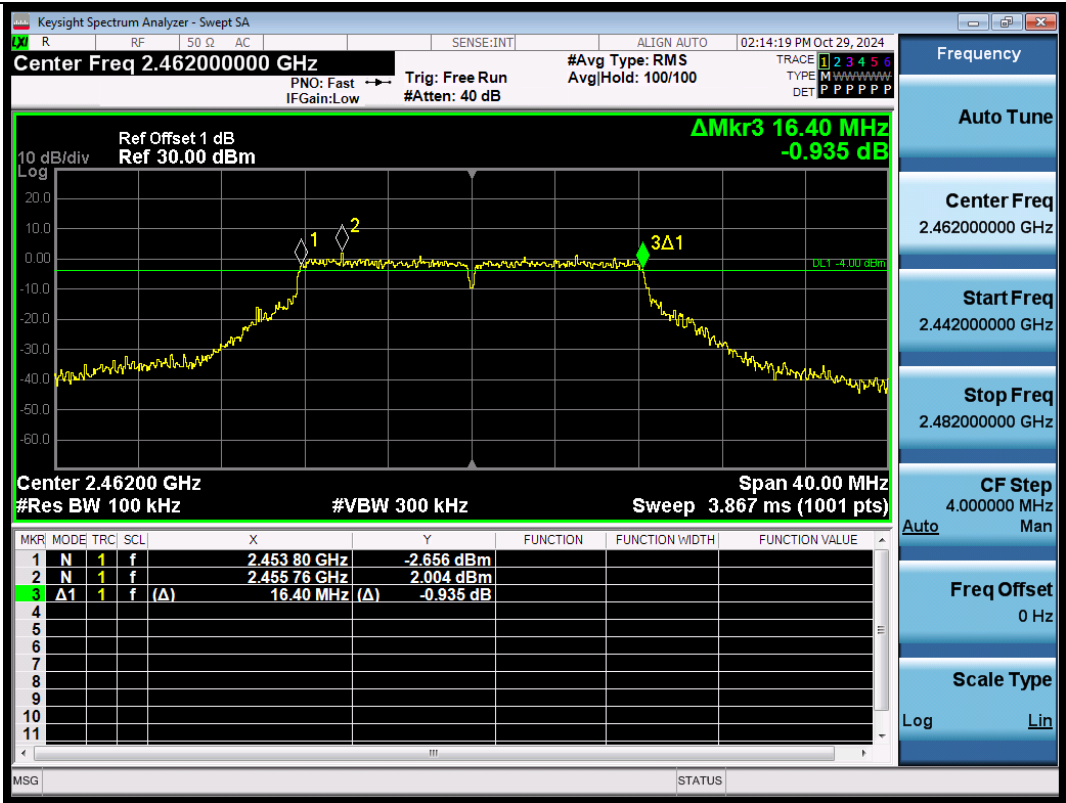
11B-2462-PASS



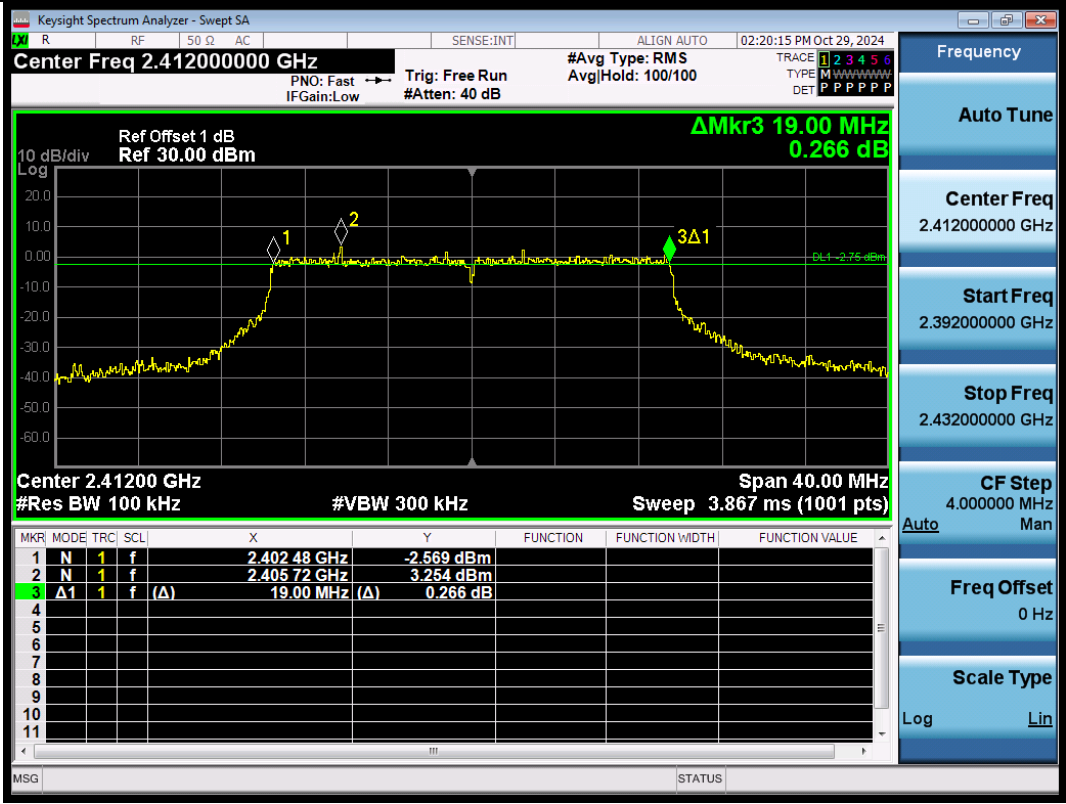
11G-2412-PASS



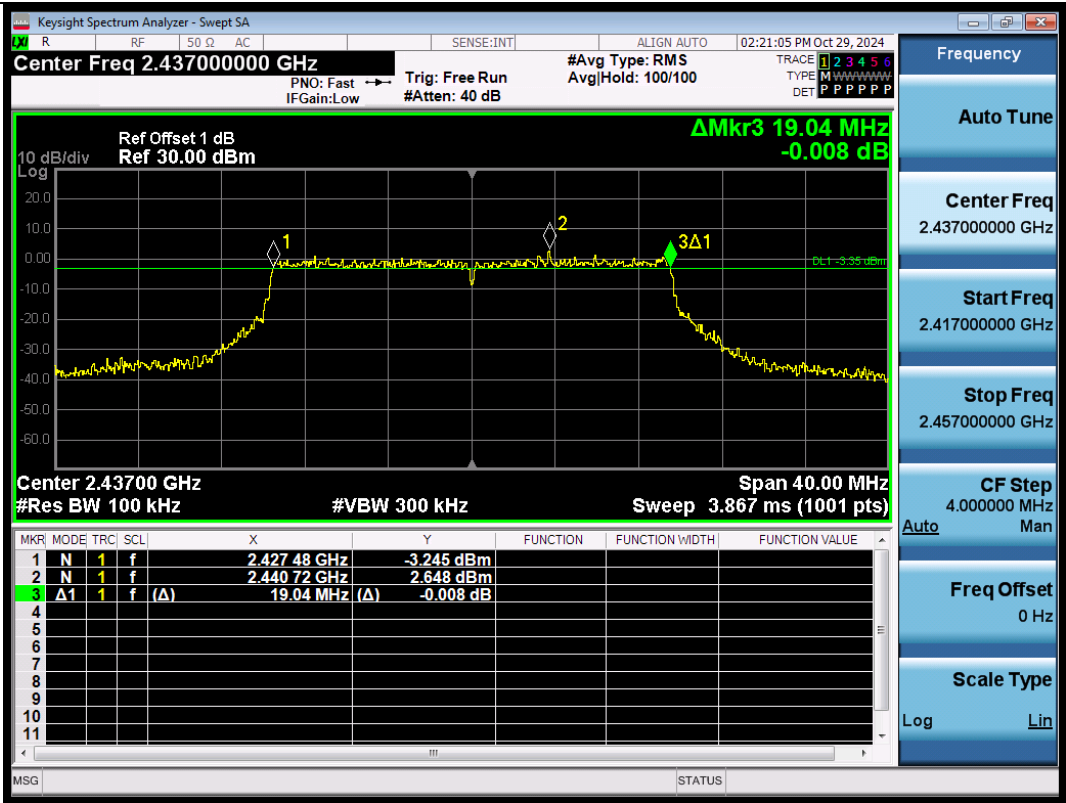
11G-2437-PASS



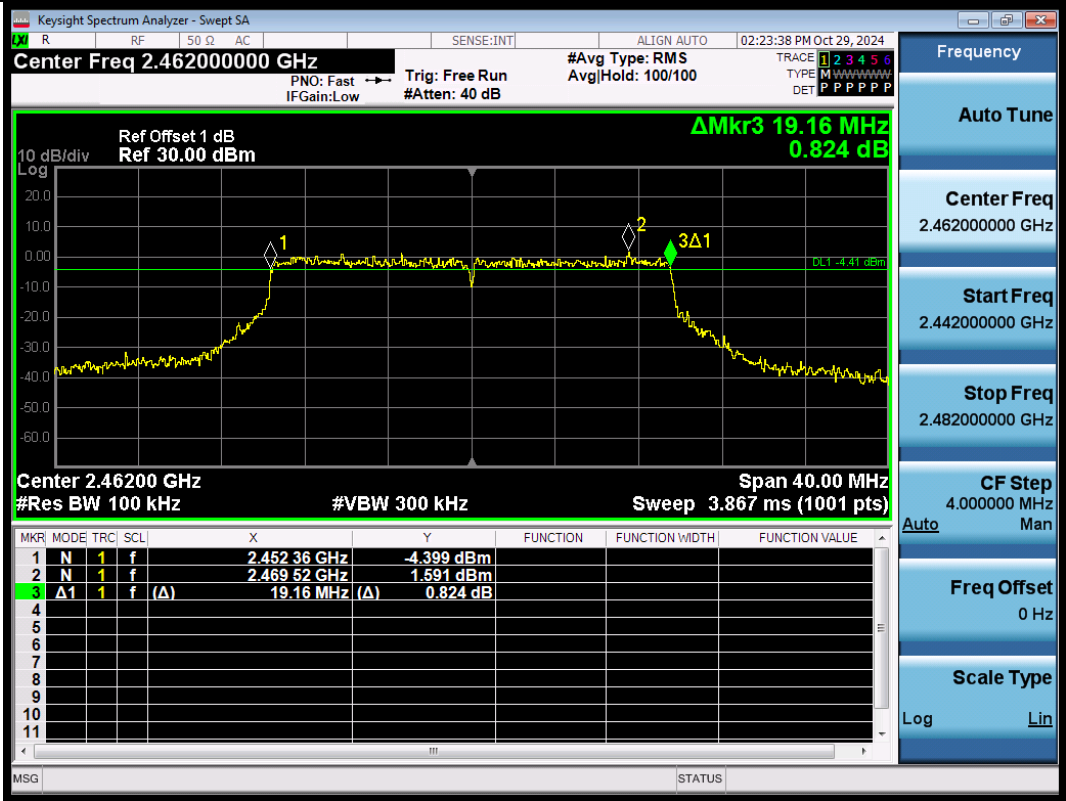
11G-2462-PASS



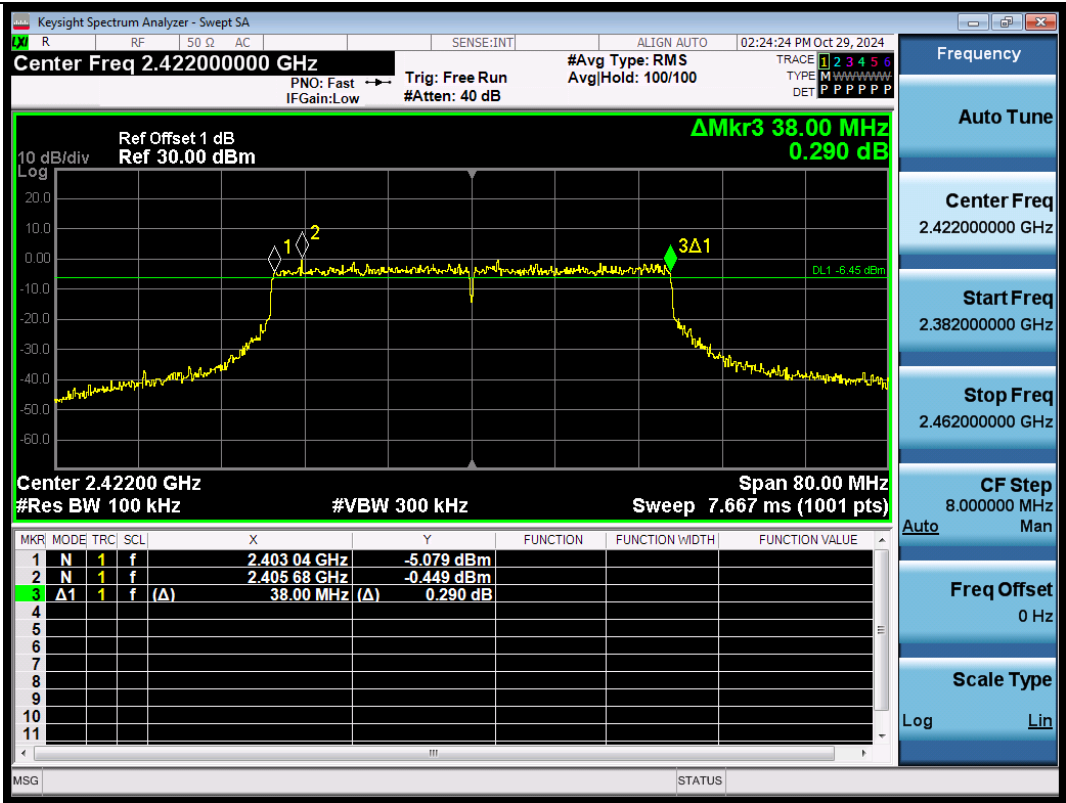
11AX20-2412-PASS



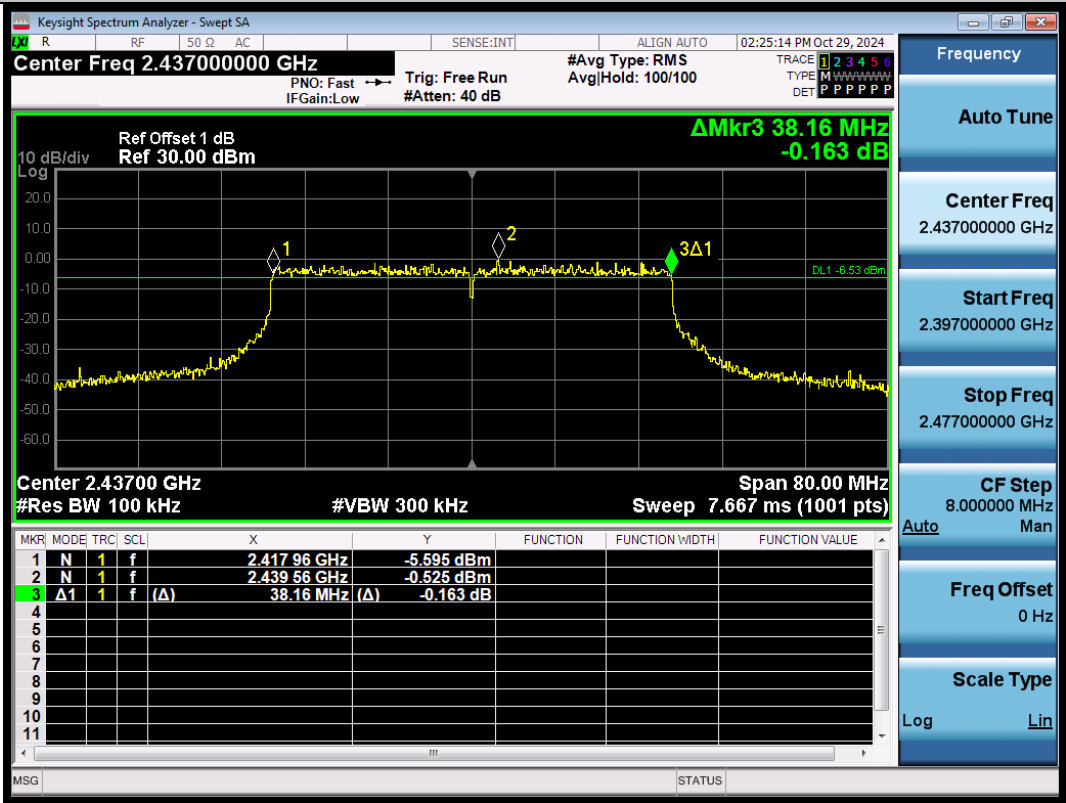
11AX20-2437-PASS



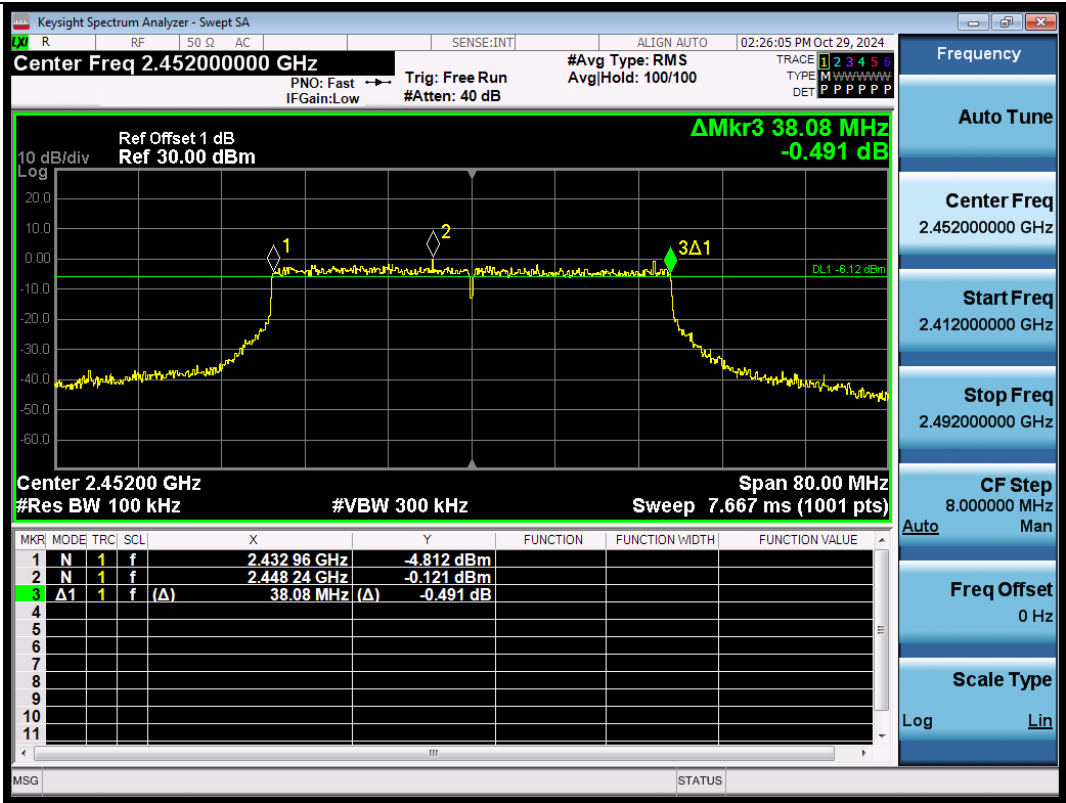
11AX20-2462-PASS



11AX40-2422-PASS



11AX40-2437-PASS



11AX40-2452-PASS

Appendix B: Maximum conducted output power

Test Mode	Frequency [MHz]	Conducted Power [dBm]			Limit [dBm]	Verdict
		Ant 1	Ant 2	Ant 1+2		
802.11b 1Mbps	2412	13.99	14.18	17.11	≤30	PASS
	2437	14.13	13.98	17.05	≤30	PASS
	2462	14.25	14.26	17.24	≤30	PASS
802.11g 6Mbps	2412	13.21	13.25	16.21	≤30	PASS
	2437	13.21	13.27	16.22	≤30	PASS
	2462	13.21	13.24	16.23	≤30	PASS
802.11n- HT20 MCS0	2412	13.23	13.24	16.21	≤30	PASS
	2437	13.21	13.25	16.18	≤30	PASS
	2462	13.26	13.27	16.24	≤30	PASS
802.11n- HT40 MCS0	2422	12.92	12.83	15.85	≤30	PASS
	2437	13.23	13.25	16.22	≤30	PASS
	2452	13.22	13.10	16.01	≤30	PASS
802.11ac- VHT20 MCS0	2412	12.84	13.36	16.12	≤30	PASS
	2437	12.73	12.96	15.86	≤30	PASS
	2462	12.76	13.10	15.94	≤30	PASS
802.11ac- VHT40 MCS0	2422	12.98	13.27	16.14	≤30	PASS
	2437	12.71	13.03	15.88	≤30	PASS
	2452	12.77	13.19	16.00	≤30	PASS
802.11ax- HE20 MCS0	2412	13.23	13.29	16.20	≤30	PASS
	2437	13.23	13.20	16.27	≤30	PASS
	2462	13.26	13.35	16.27	≤30	PASS
802.11ax- HE40 MCS0	2422	13.04	12.81	15.83	≤30	PASS
	2437	13.22	13.20	16.19	≤30	PASS
	2452	13.17	12.96	15.98	≤30	PASS
802.11be- EHT20 MCS0	2412	12.78	12.91	15.86	≤30	PASS
	2437	12.90	13.12	16.02	≤30	PASS
	2462	13.11	13.09	16.11	≤30	PASS
802.11be- EHT40 MCS0	2422	12.78	12.81	15.81	≤30	PASS
	2437	13.01	12.93	15.98	≤30	PASS
	2452	12.89	12.92	15.92	≤30	PASS

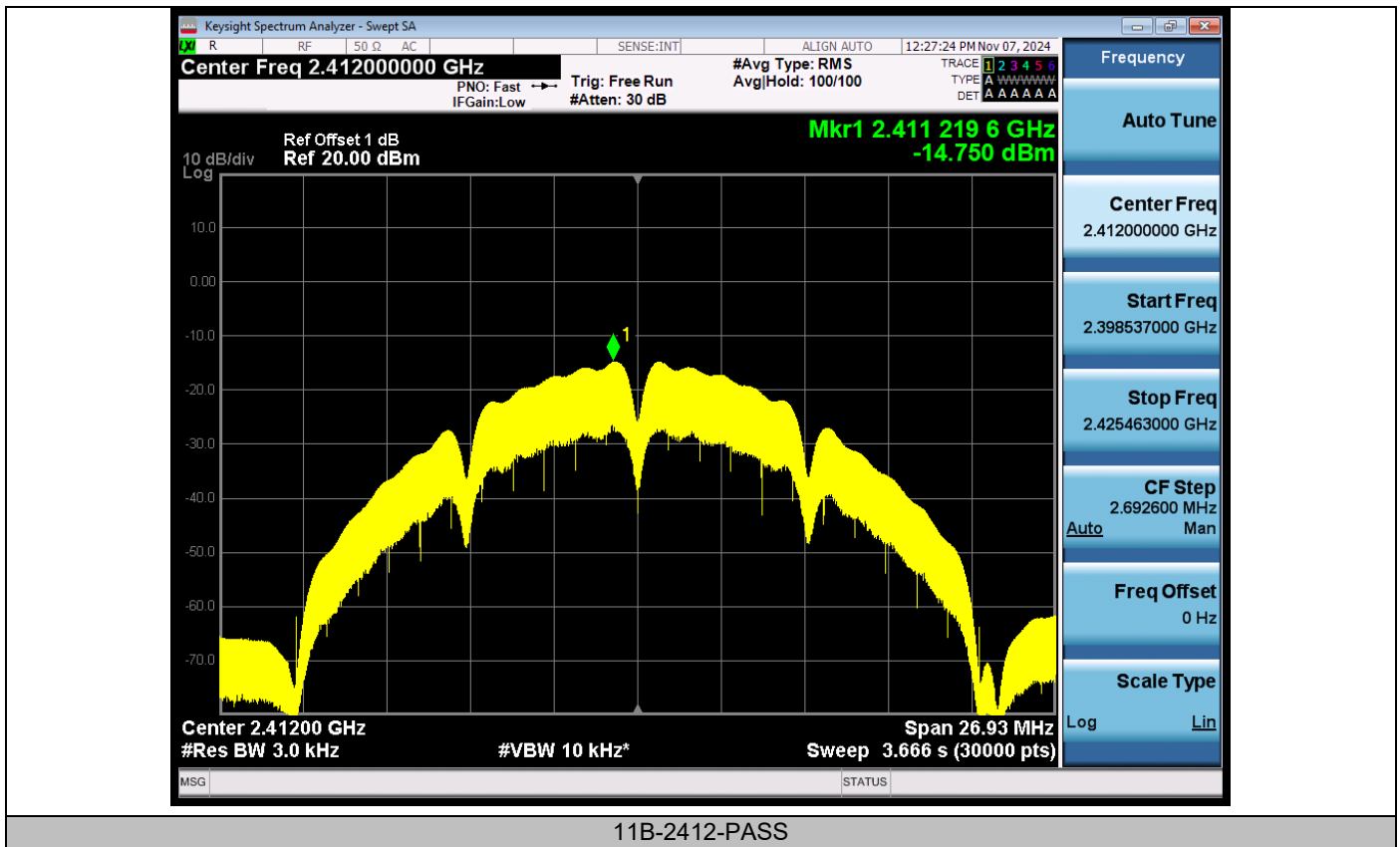
Appendix C: Maximum power spectral density

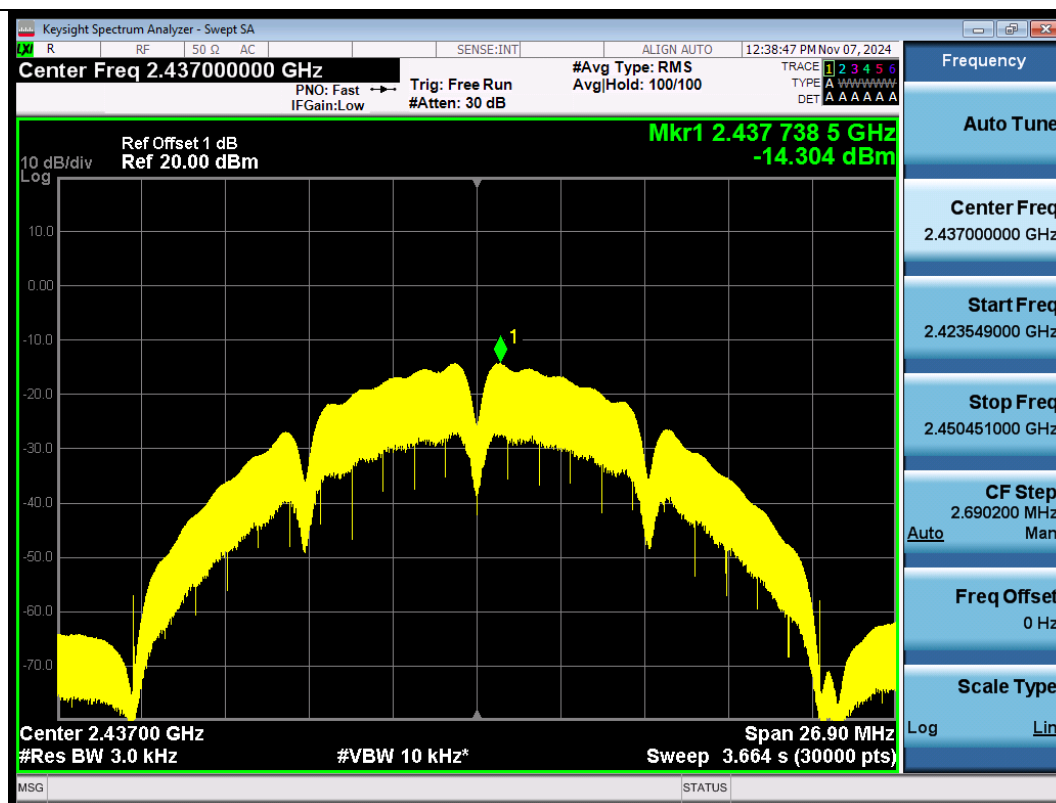
TestMode	Antenna	Frequency [MHz]	Result [dBm/3-100kHz]	Limit[dBm/3kHz]	Verdict
11B	Ant1+2	2412	-8.34	≤7.59	PASS
11B	Ant1+2	2437	-7.89	≤7.59	PASS
11B	Ant1+2	2462	-7.75	≤7.59	PASS
11G	Ant1+2	2412	-12.93	≤7.59	PASS
11G	Ant1+2	2437	-12.92	≤7.59	PASS
11G	Ant1+2	2462	-12.58	≤7.59	PASS
11AX20	Ant1+2	2412	-15.71	≤7.59	PASS
11AX20	Ant1+2	2437	-15.62	≤7.59	PASS
11AX20	Ant1+2	2462	-15.49	≤7.59	PASS
11AX40	Ant1+2	2422	-19.25	≤7.59	PASS
11AX40	Ant1+2	2437	-18.97	≤7.59	PASS
11AX40	Ant1+2	2452	-18.8	≤7.59	PASS

Note :

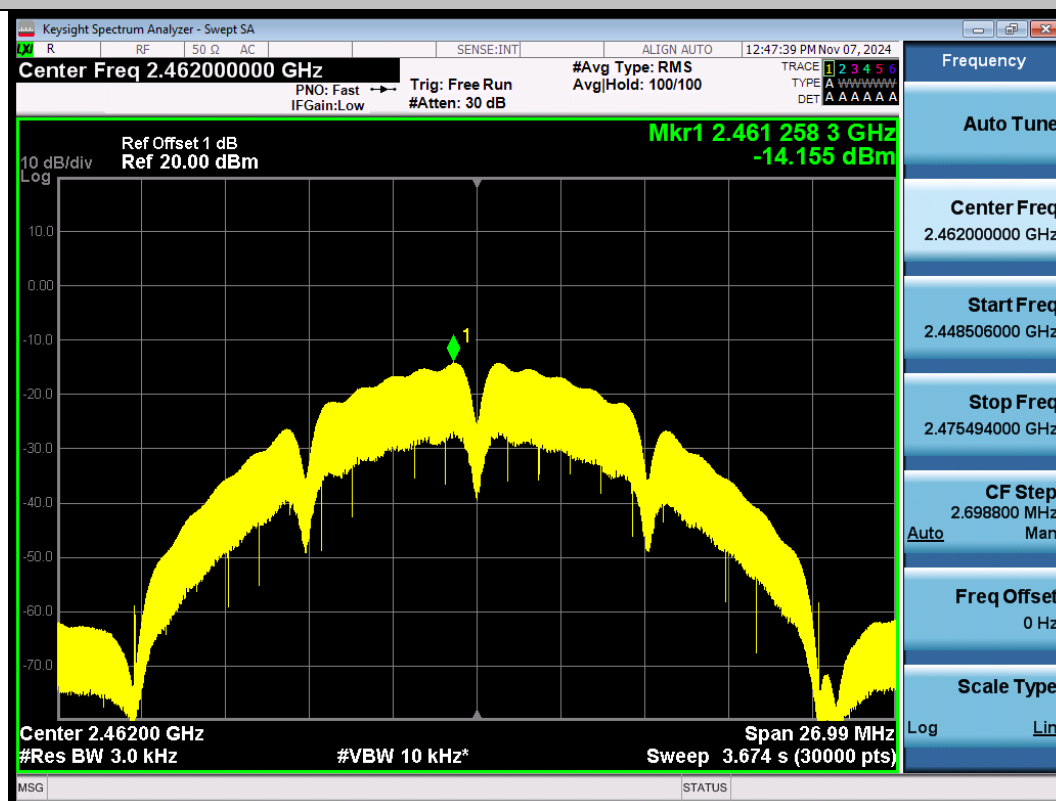
1. Directional gain = $10 \log[(10^{\text{Ant1 gain}/20} + 10^{\text{Ant2 gain}/20})^2 / 2]$, the directional gain is 6.41 dBi.
2. Limit = Limit - (Directional gain – 6), the Limit is 7.59 dBi.

Test Graphs for Worst-case data





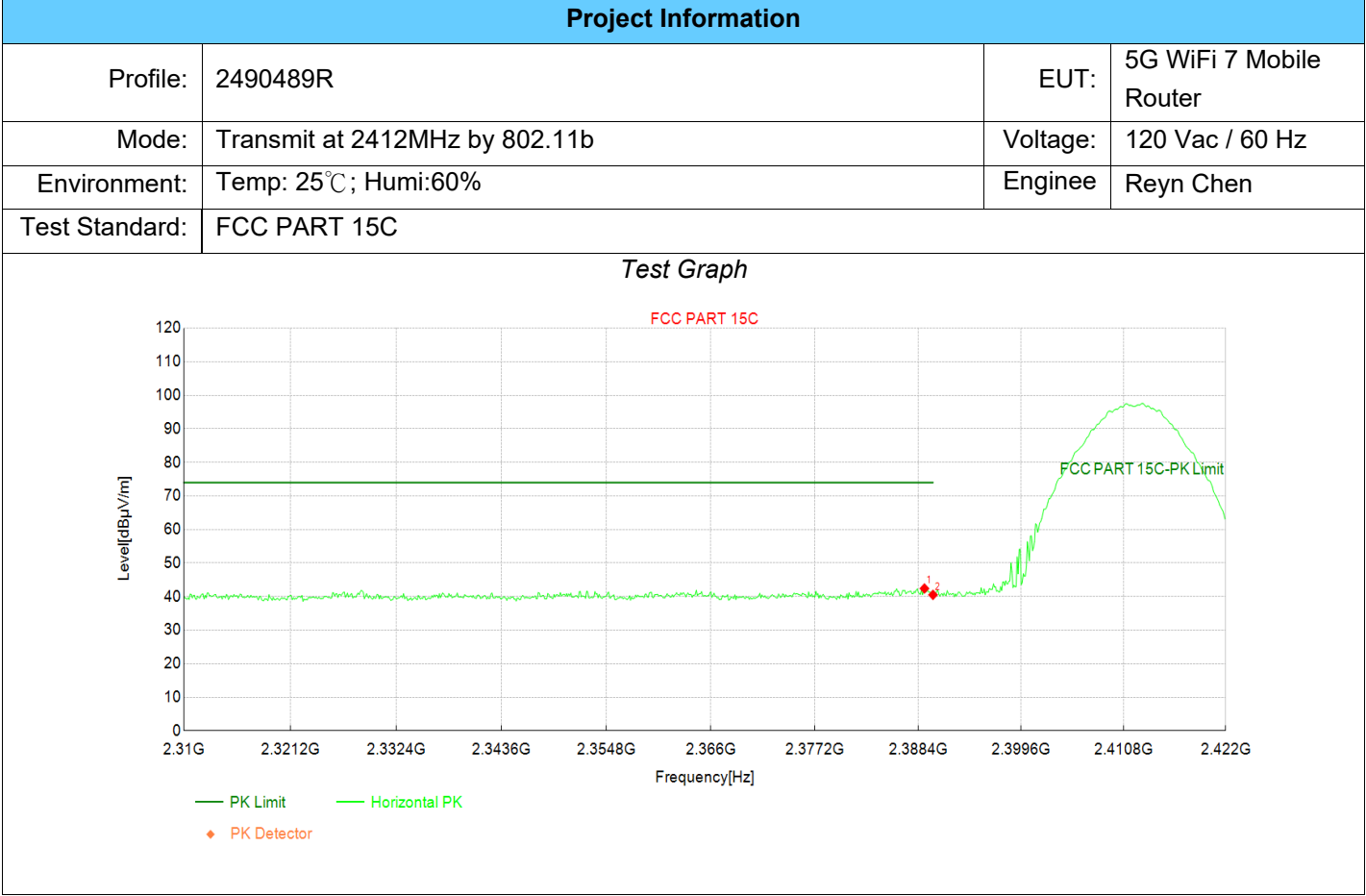
11B-2437-PASS



11B-2462-PASS

Appendix D: Band edge measurements

Test Report



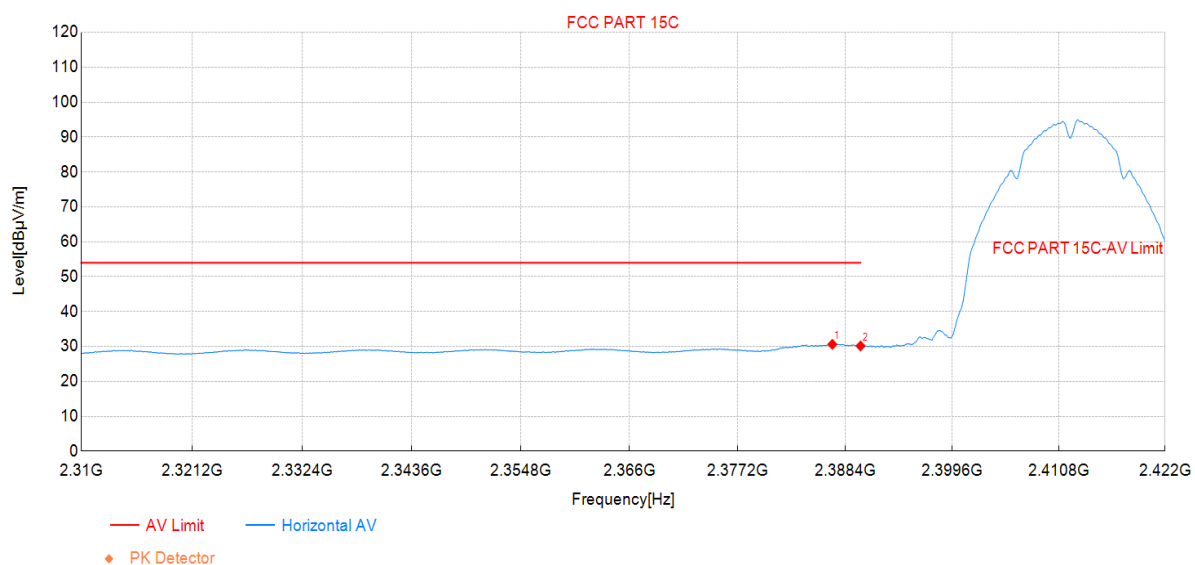
Suspected Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.07	38.77	42.41	3.64	74.00	31.59	PK	Horizo	PASS
2	2390.00	36.86	40.51	3.65	74.00	33.49	PK	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

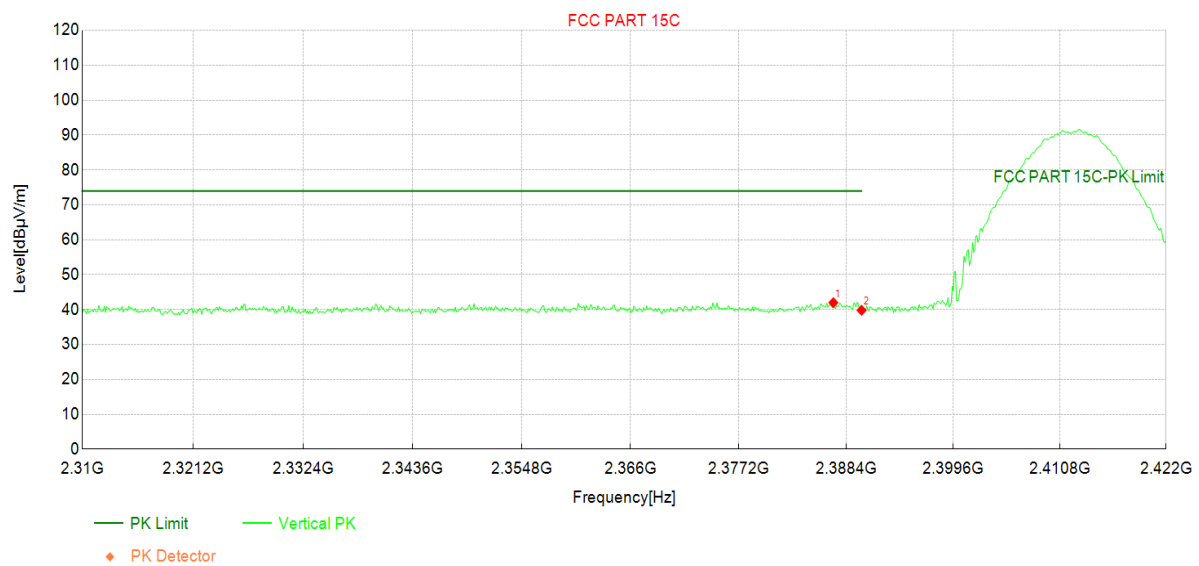
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.06	26.98	30.61	3.63	54.00	23.39	AV	Horizo	PASS
2	2390.00	26.50	30.15	3.65	54.00	23.85	AV	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

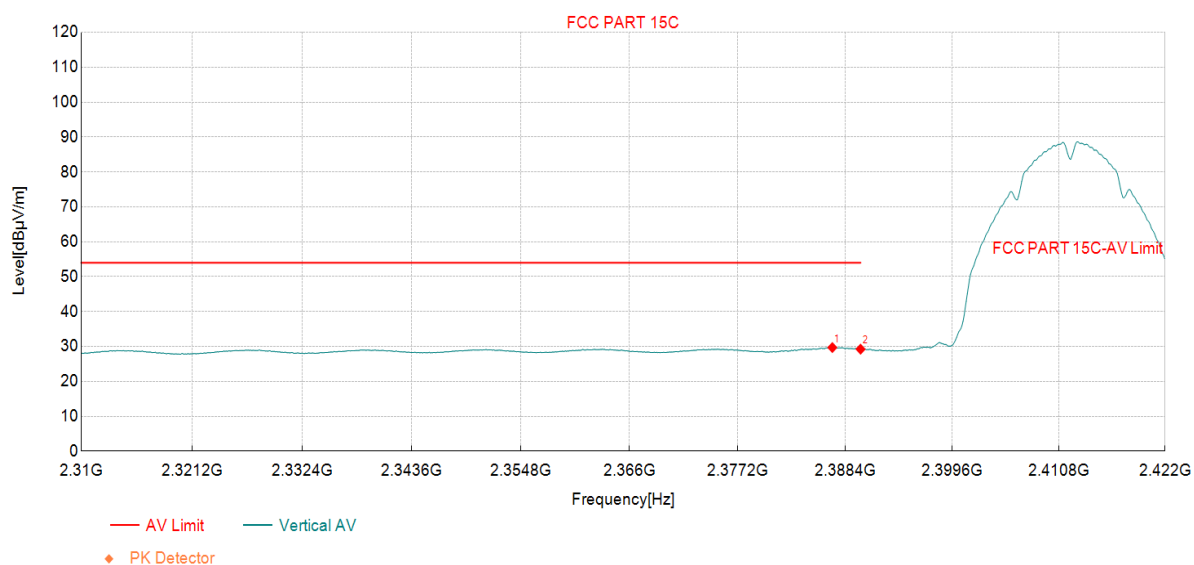
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.06	38.35	41.98	3.63	74.00	32.02	PK	Vertic	PASS
2	2390.00	36.15	39.80	3.65	74.00	34.20	PK	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

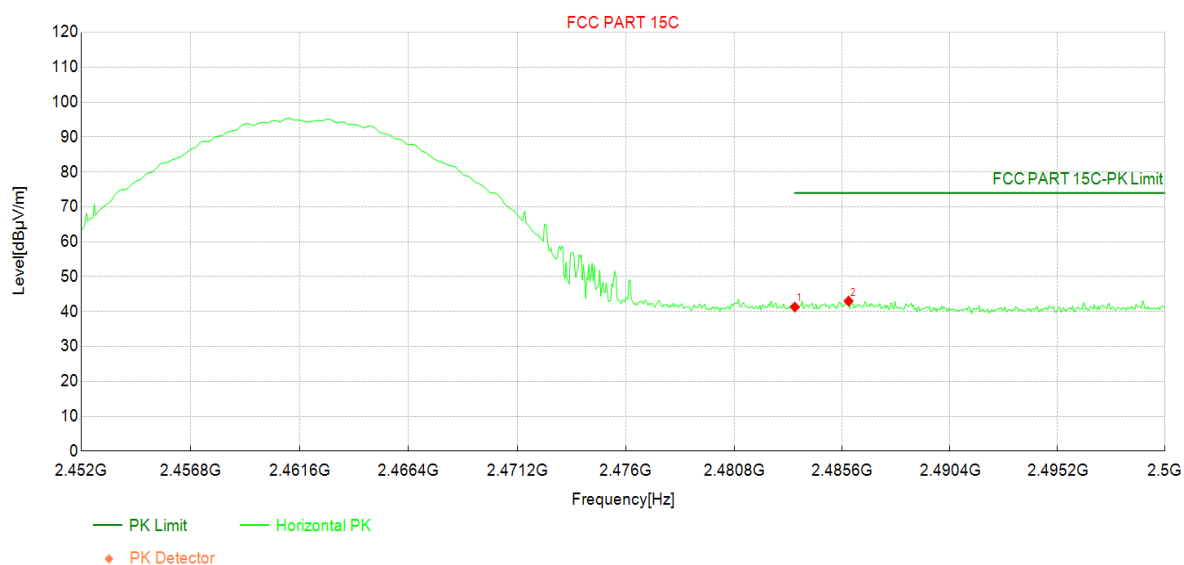
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.06	26.05	29.68	3.63	54.00	24.32	AV	Vertic	PASS
2	2390.00	25.57	29.22	3.65	54.00	24.78	AV	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph

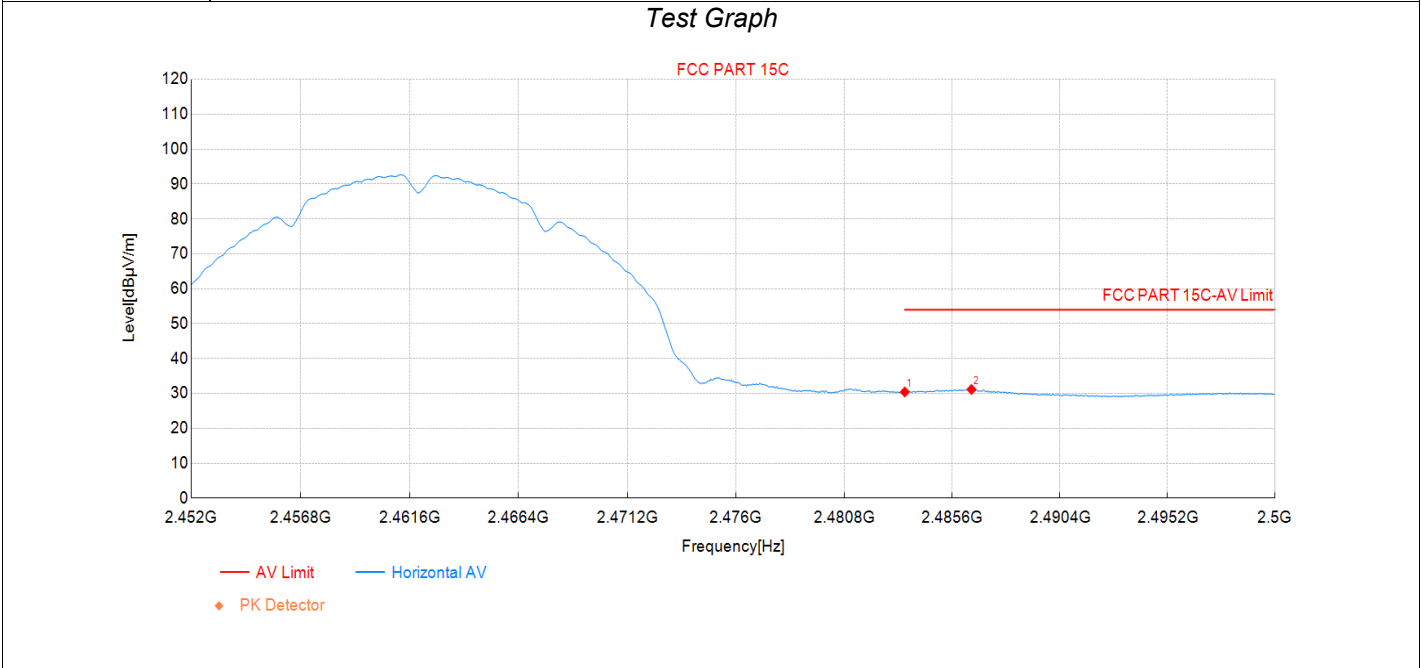


Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	37.20	41.29	4.09	74.00	32.71	PK	Horizo	PASS
2	2485.89	38.89	43.00	4.11	74.00	31.00	PK	Horizo	PASS

Test Report

Project Information			
Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃ ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		



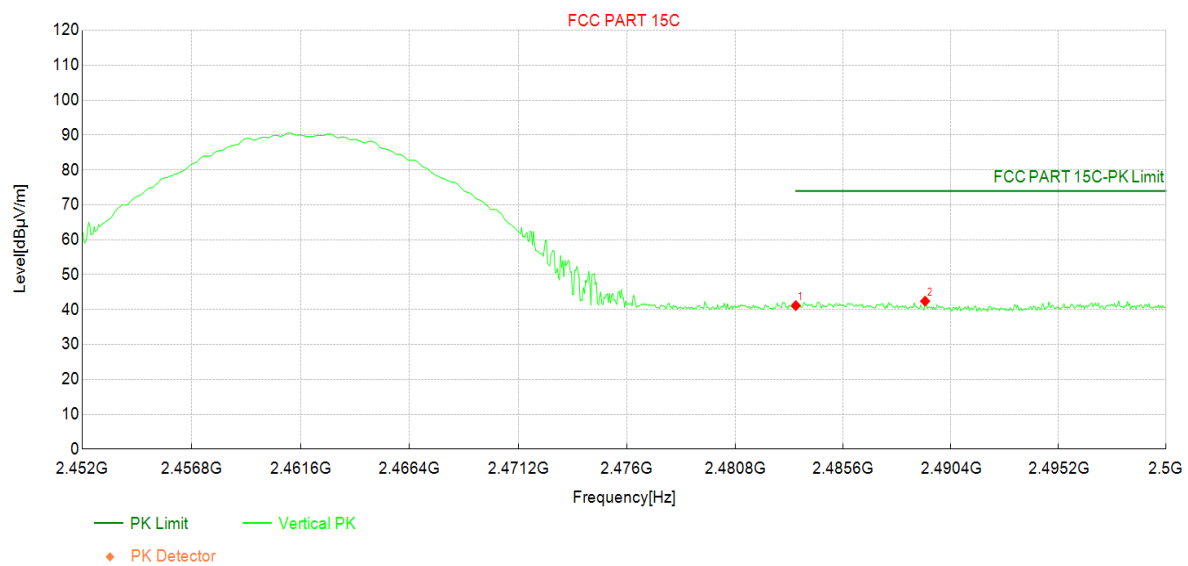
Suspected Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	26.34	30.43	4.09	54.00	23.57	AV	Horizo	PASS
2	2486.46	27.04	31.15	4.11	54.00	22.85	AV	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

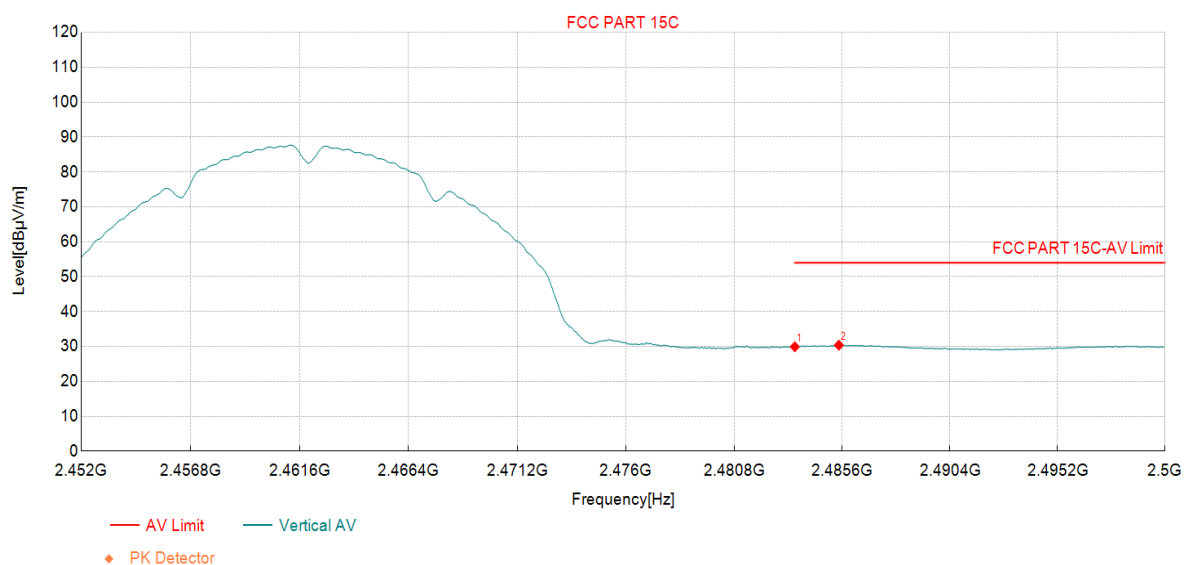
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	37.04	41.13	4.09	74.00	32.87	PK	Vertic	PASS
2	2489.25	38.27	42.40	4.13	74.00	31.60	PK	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11b	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

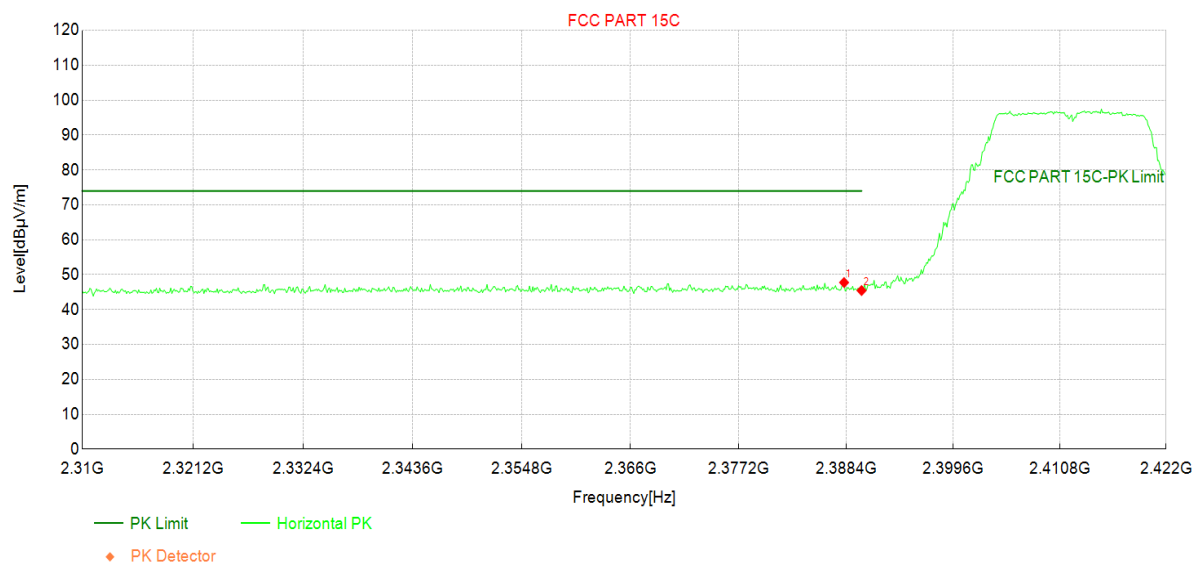
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	25.82	29.91	4.09	54.00	24.09	AV	Vertic	PASS
2	2485.46	26.25	30.36	4.11	54.00	23.64	AV	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

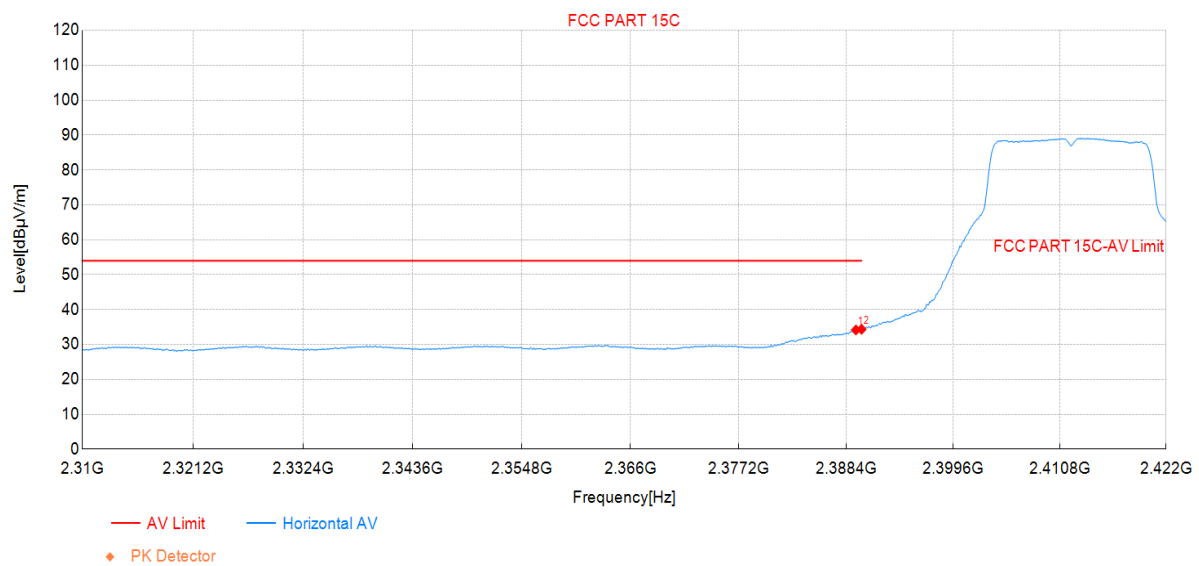
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.18	44.12	47.75	3.63	74.00	26.25	PK	Horizo	PASS
2	2390.00	41.80	45.45	3.65	74.00	28.55	PK	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

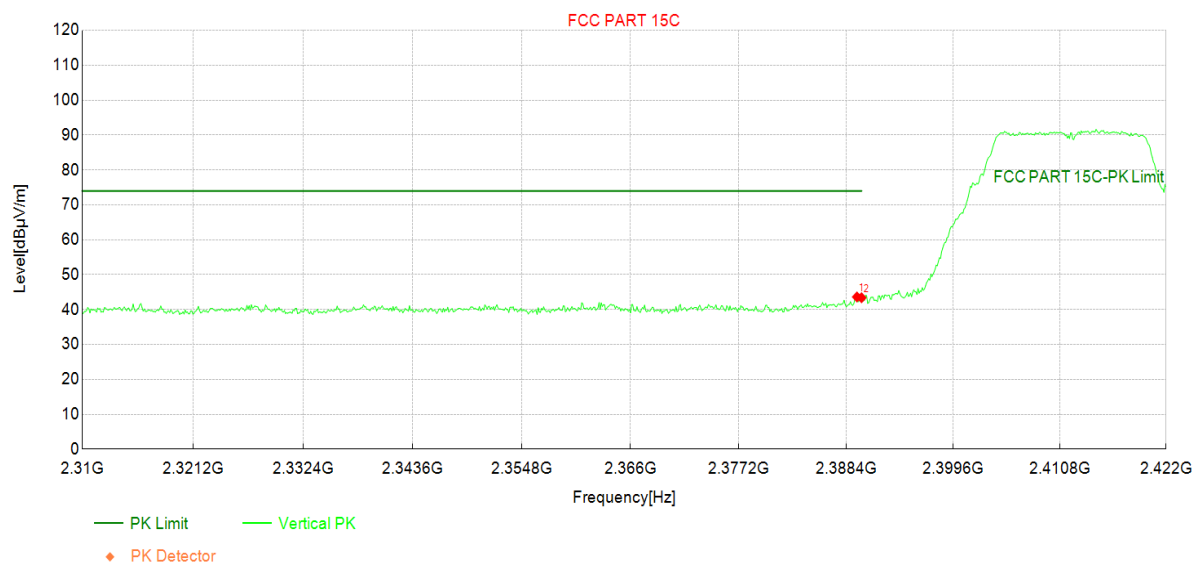
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.41	30.51	34.16	3.65	54.00	19.84	AV	Horizo	PASS
2	2390.00	30.70	34.35	3.65	54.00	19.65	AV	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

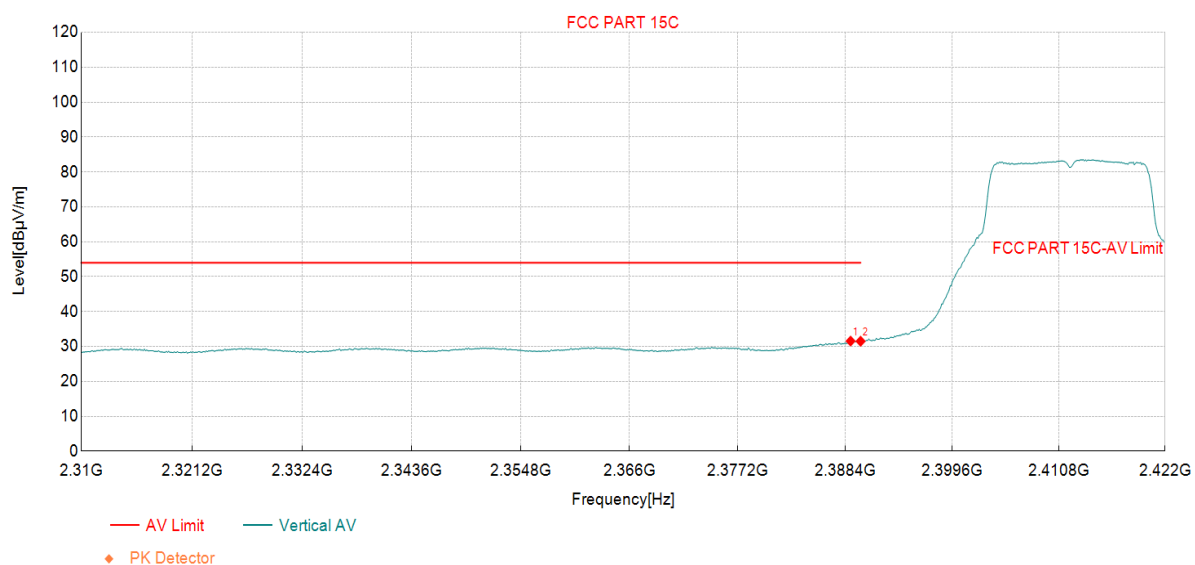
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.52	39.96	43.61	3.65	74.00	30.39	PK	Vertic	PASS
2	2390.00	39.74	43.39	3.65	74.00	30.61	PK	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

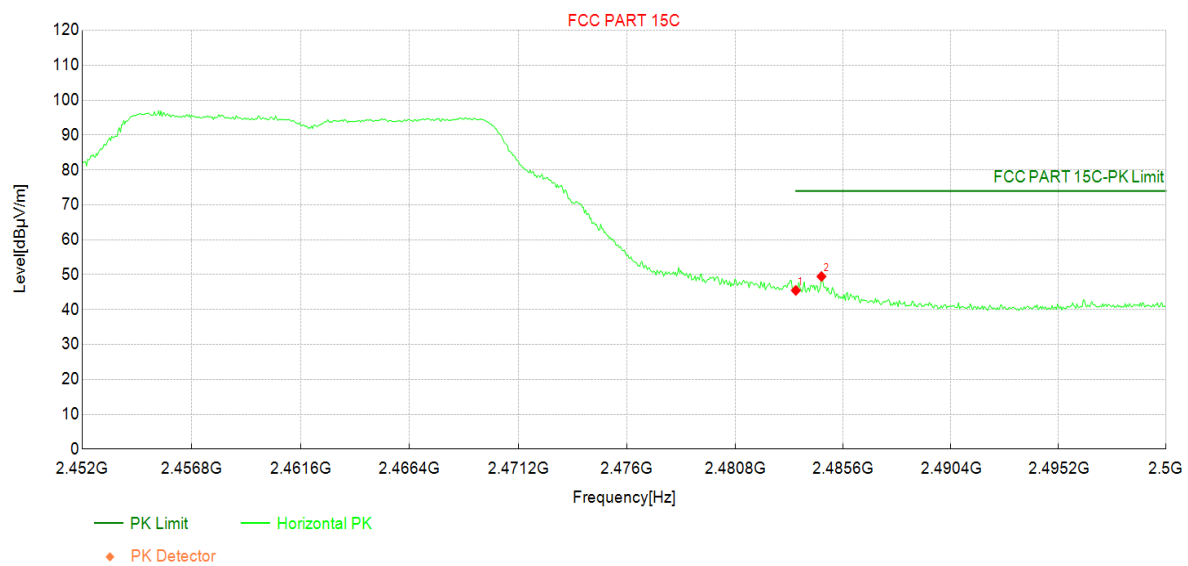
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.96	27.90	31.54	3.64	54.00	22.46	AV	Vertic	PASS
2	2390.00	27.85	31.50	3.65	54.00	22.50	AV	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



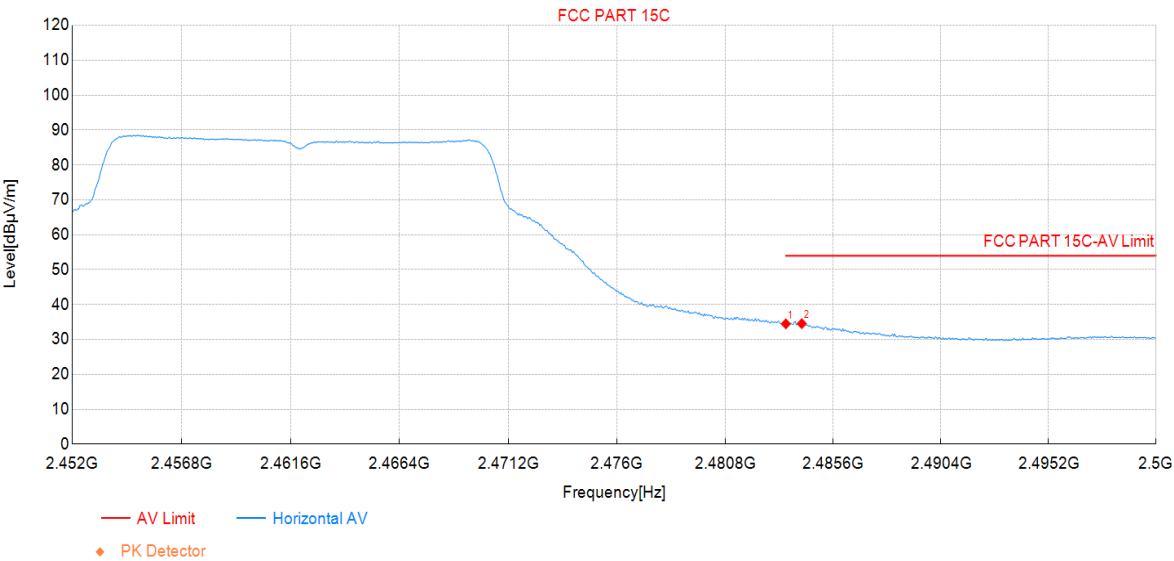
Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	41.39	45.48	4.09	74.00	28.52	PK	Horizo	PASS
2	2484.64	45.37	49.48	4.11	74.00	24.52	PK	Horizo	PASS

Test Report

Project Information			
Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃ ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

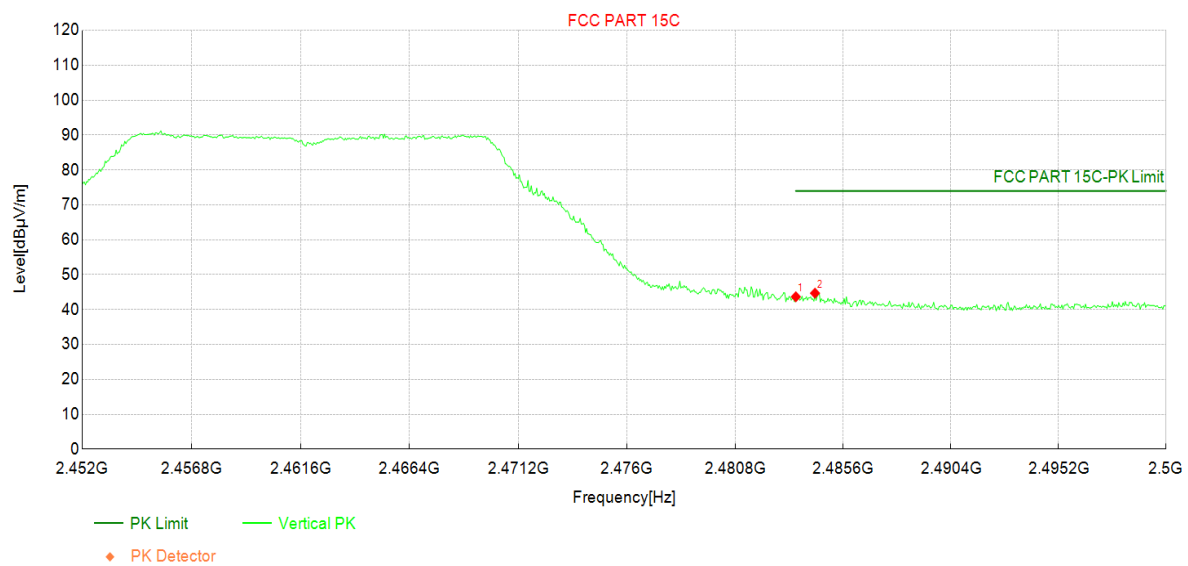
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	30.39	34.48	4.09	54.00	19.52	AV	Horizo	PASS
2	2484.21	30.42	34.53	4.11	54.00	19.47	AV	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11g	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		

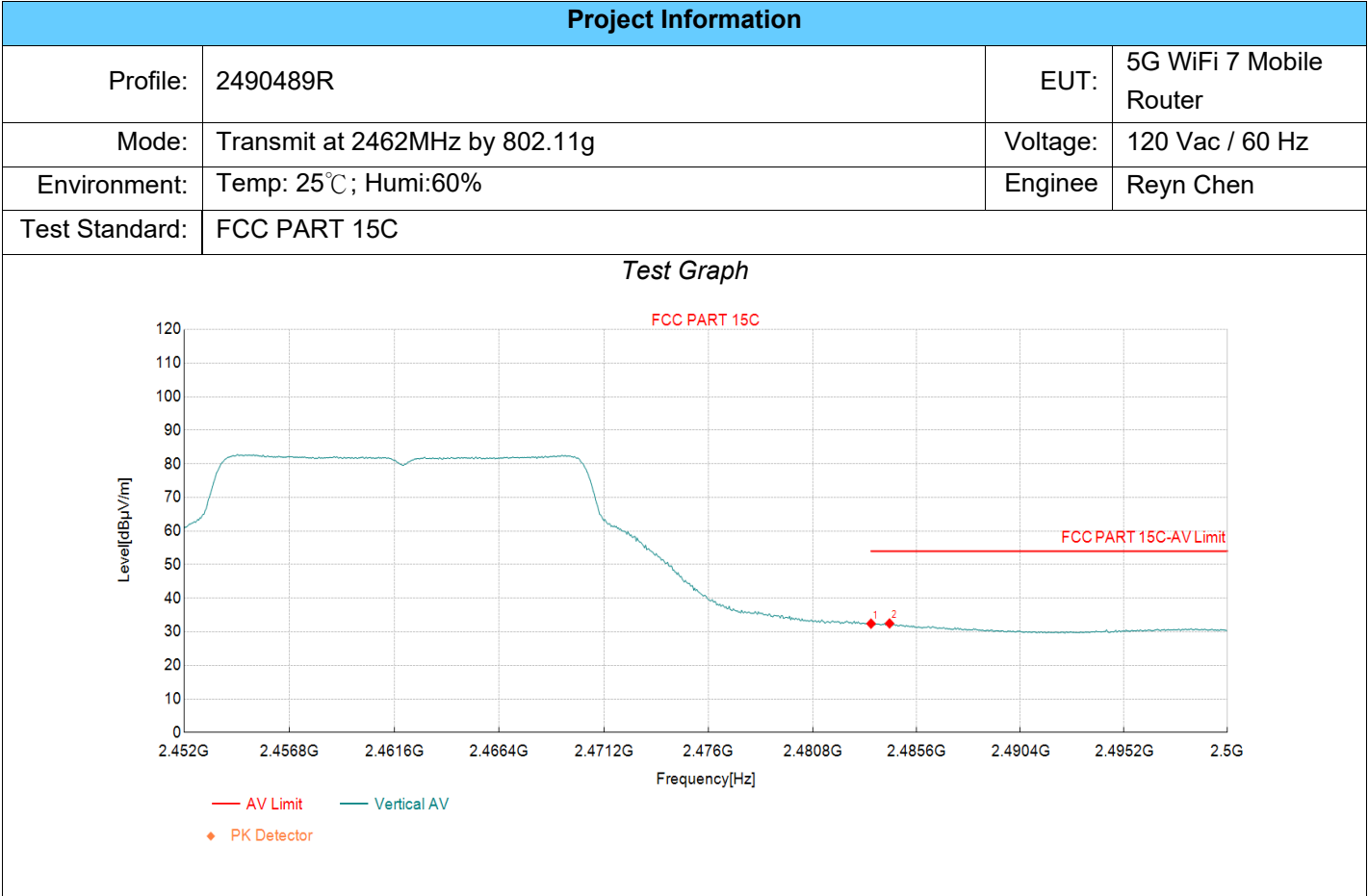
Test Graph



Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	39.57	43.66	4.09	74.00	30.34	PK	Vertic	PASS
2	2484.35	40.58	44.69	4.11	74.00	29.31	PK	Vertic	PASS

Test Report

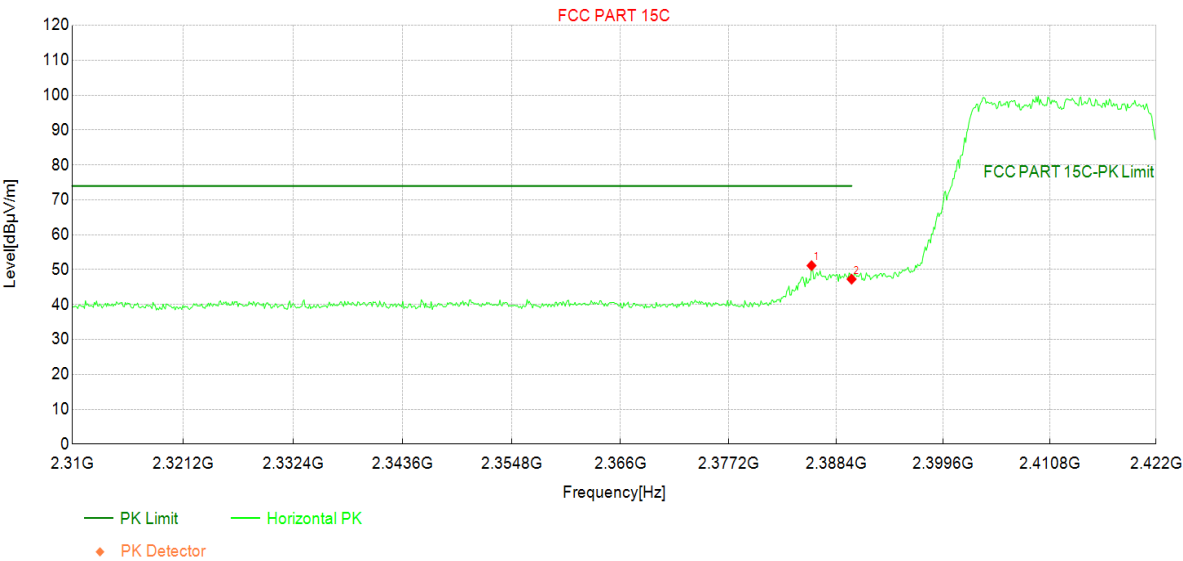


Suspected Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	28.33	32.42	4.09	54.00	21.58	AV	Vertic	PASS
2	2484.35	28.38	32.49	4.11	54.00	21.51	AV	Vertic	PASS

Test Report

Project Information			
Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃ ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph

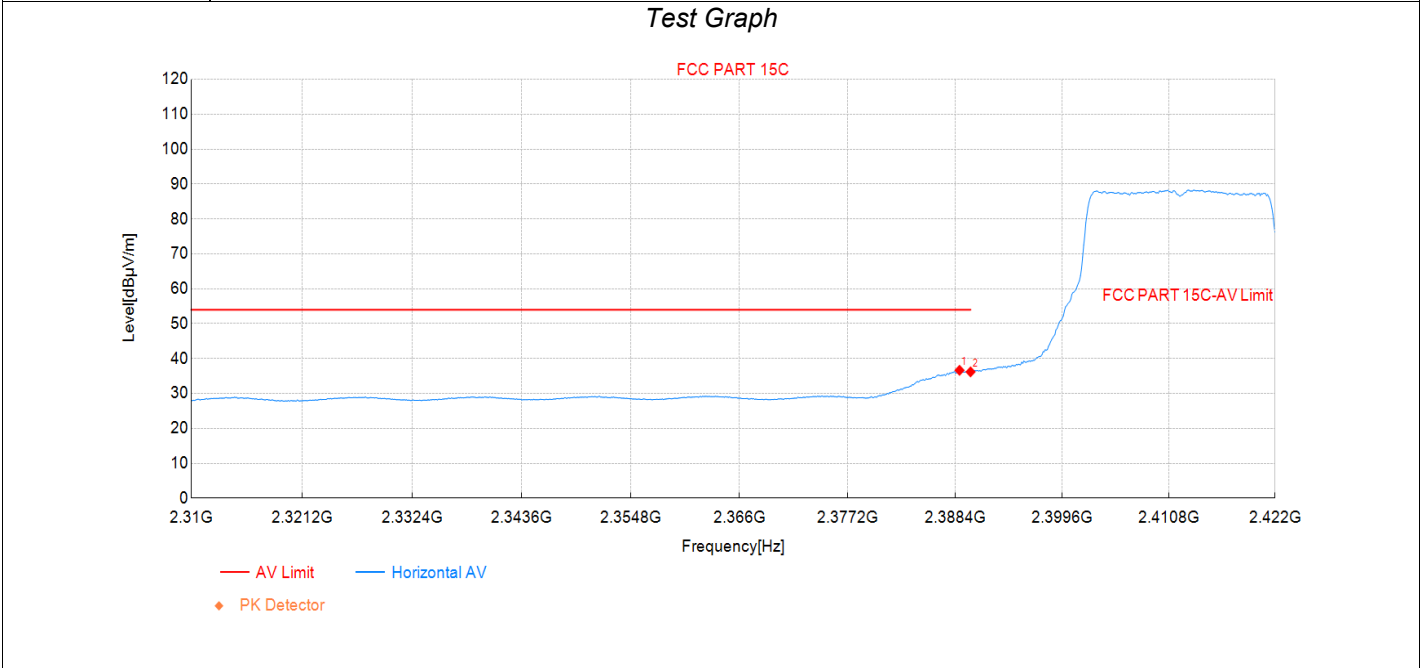


Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2385.82	47.52	51.15	3.63	74.00	22.85	PK	Horizo	PASS
2	2390.00	43.62	47.27	3.65	74.00	26.73	PK	Horizo	PASS

Test Report

Project Information			
Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃ ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		



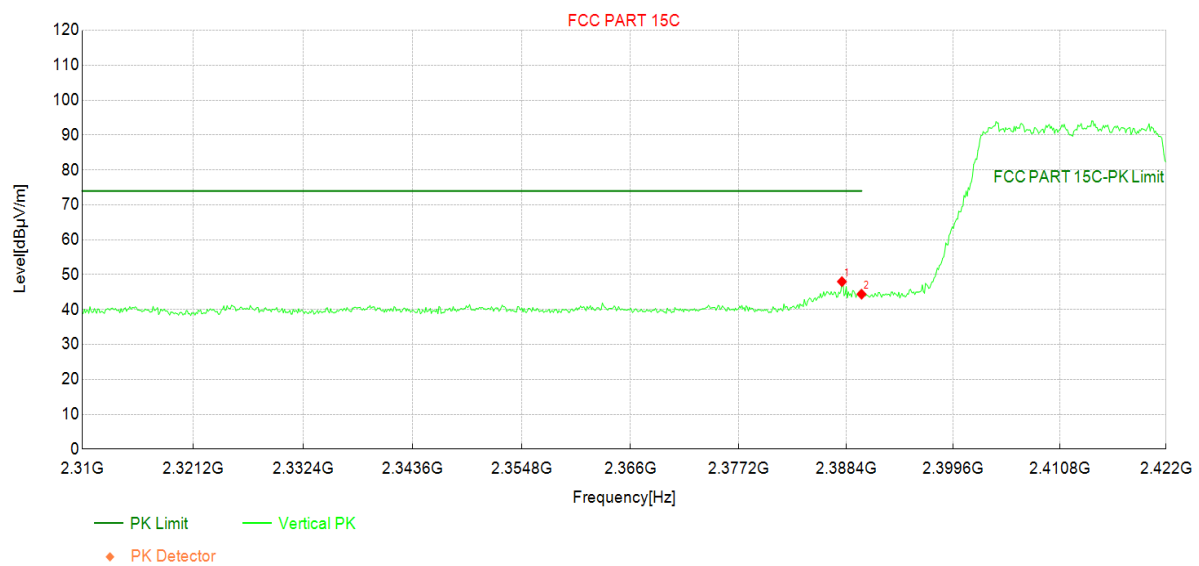
Suspected Data List									
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.85	32.99	36.63	3.64	54.00	17.37	AV	Horizo	PASS
2	2390.00	32.54	36.19	3.65	54.00	17.81	AV	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

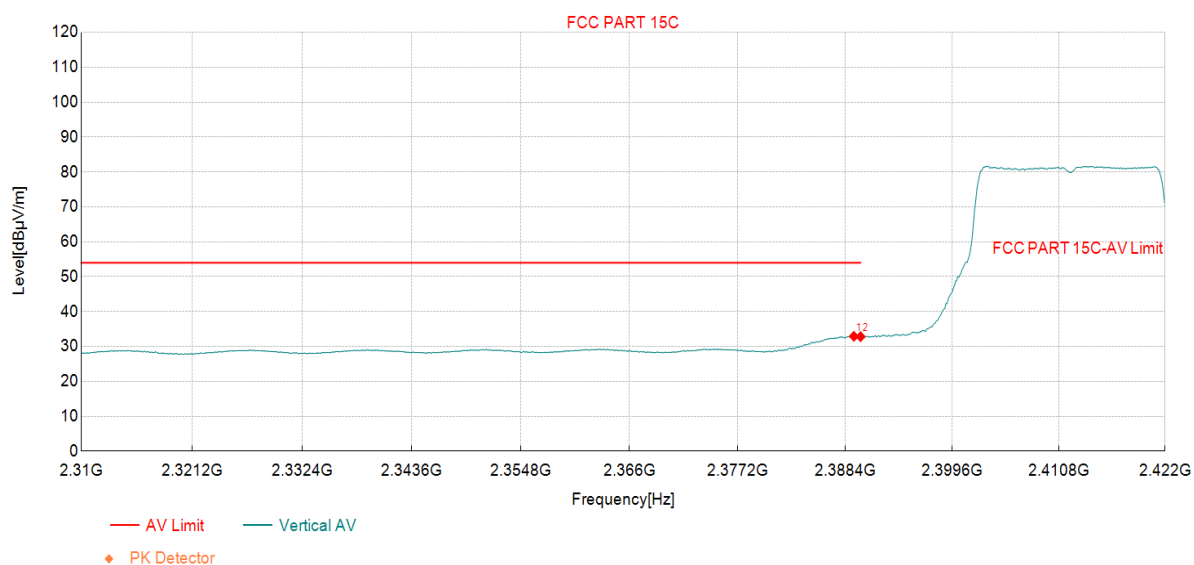
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.95	44.37	48.00	3.63	74.00	26.00	PK	Vertic	PASS
2	2390.00	40.75	44.40	3.65	74.00	29.60	PK	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2412MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

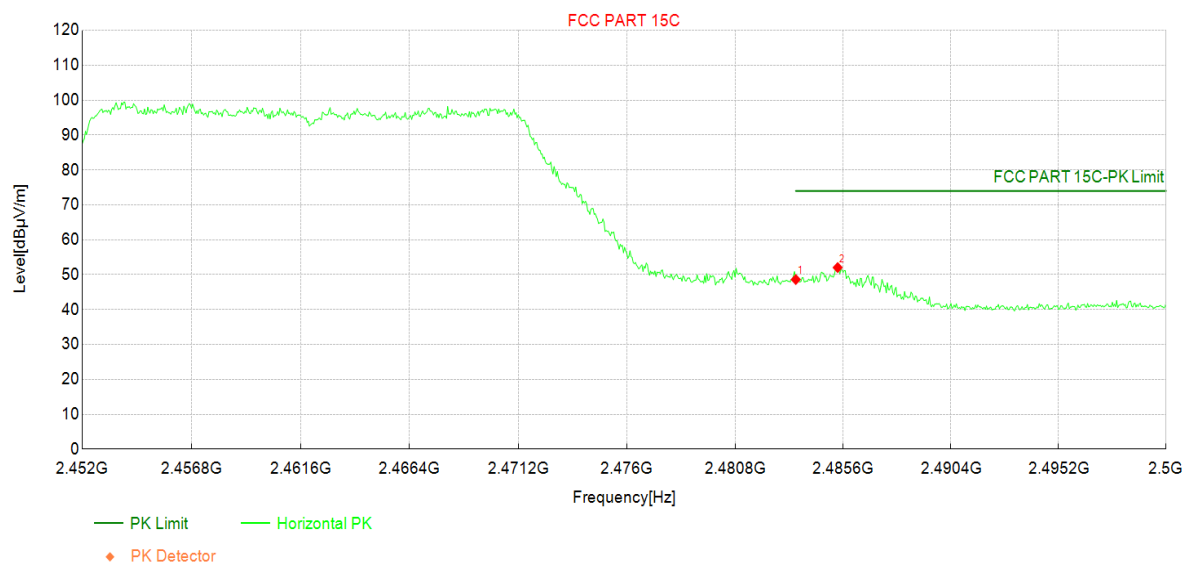
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2389.30	29.25	32.90	3.65	54.00	21.10	AV	Vertic	PASS
2	2390.00	29.17	32.82	3.65	54.00	21.18	AV	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph

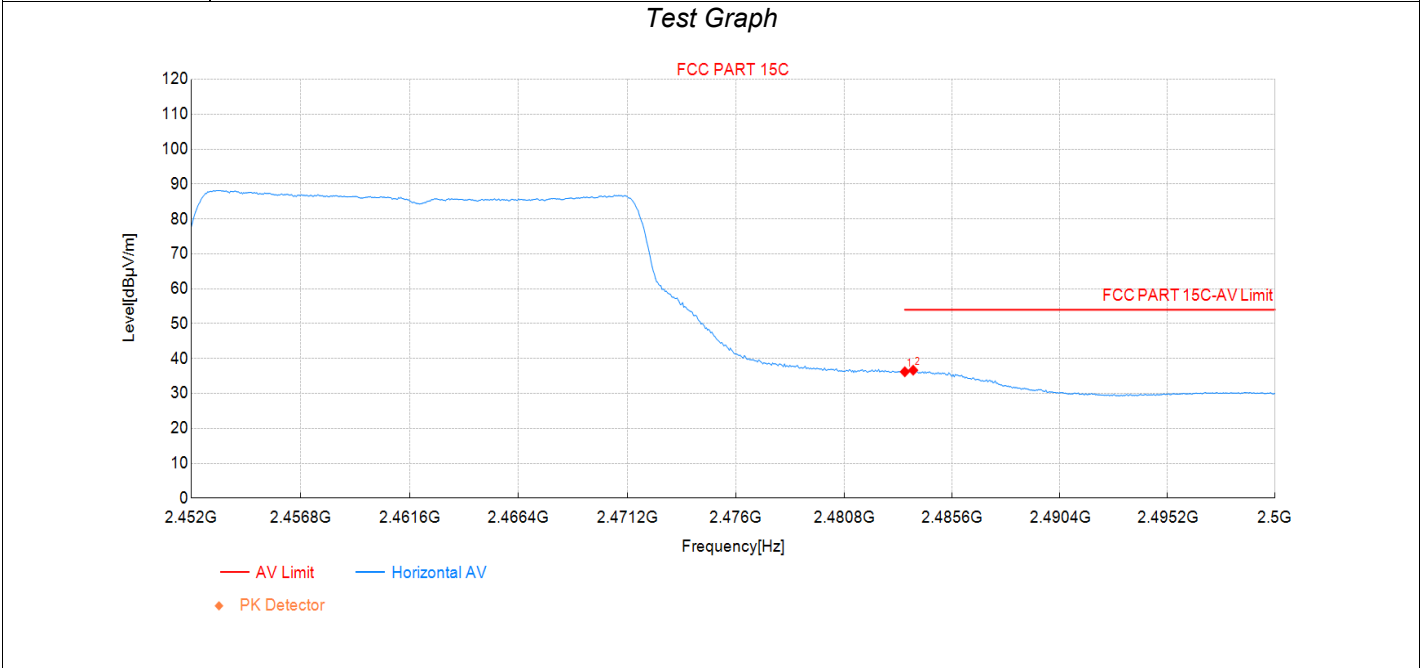


Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	44.52	48.61	4.09	74.00	25.39	PK	Horizo	PASS
2	2485.36	47.92	52.03	4.11	74.00	21.97	PK	Horizo	PASS

Test Report

Project Information			
Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃ ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		



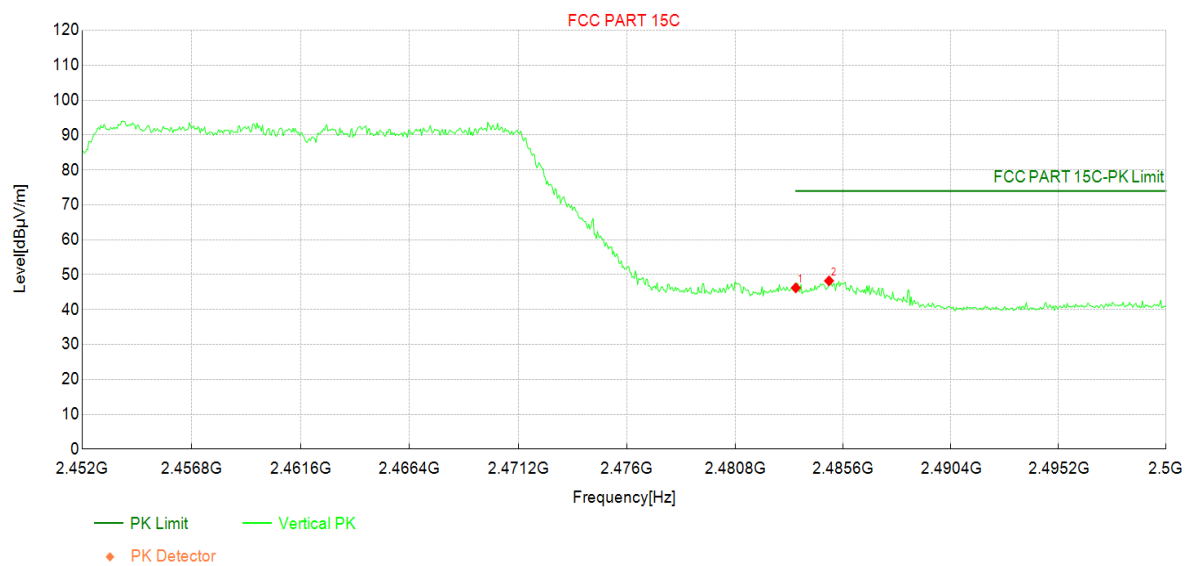
Suspected Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	32.12	36.21	4.09	54.00	17.79	AV	Horizo	PASS
2	2483.87	32.57	36.66	4.09	54.00	17.34	AV	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



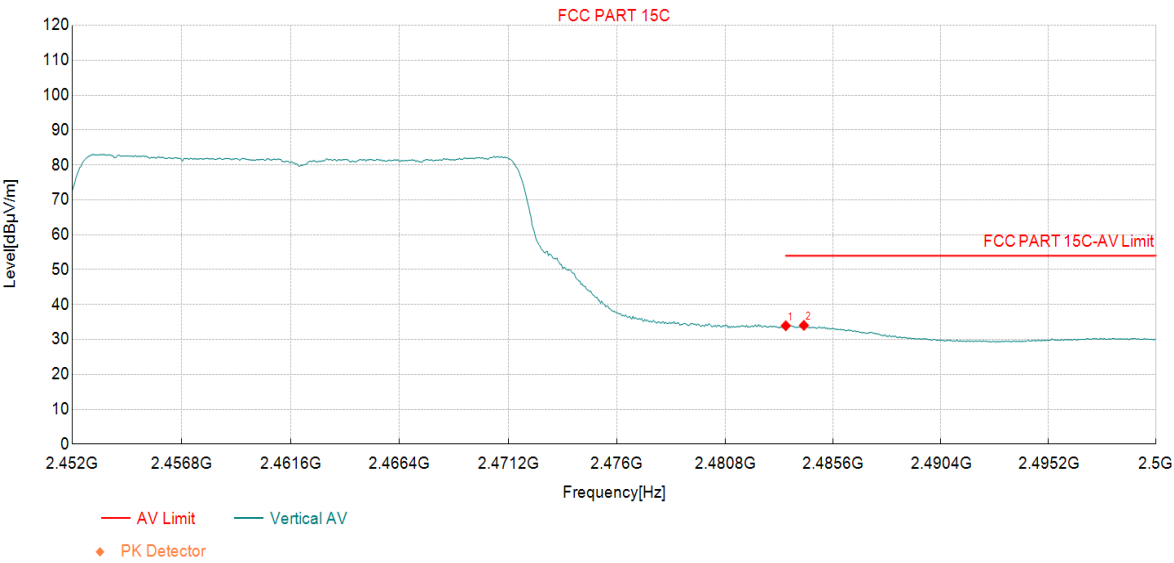
Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	42.12	46.21	4.09	74.00	27.79	PK	Vertic	PASS
2	2484.98	44.12	48.23	4.11	74.00	25.77	PK	Vertic	PASS

Test Report

Project Information			
Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2462MHz by 802.11ax(20MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃ ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		

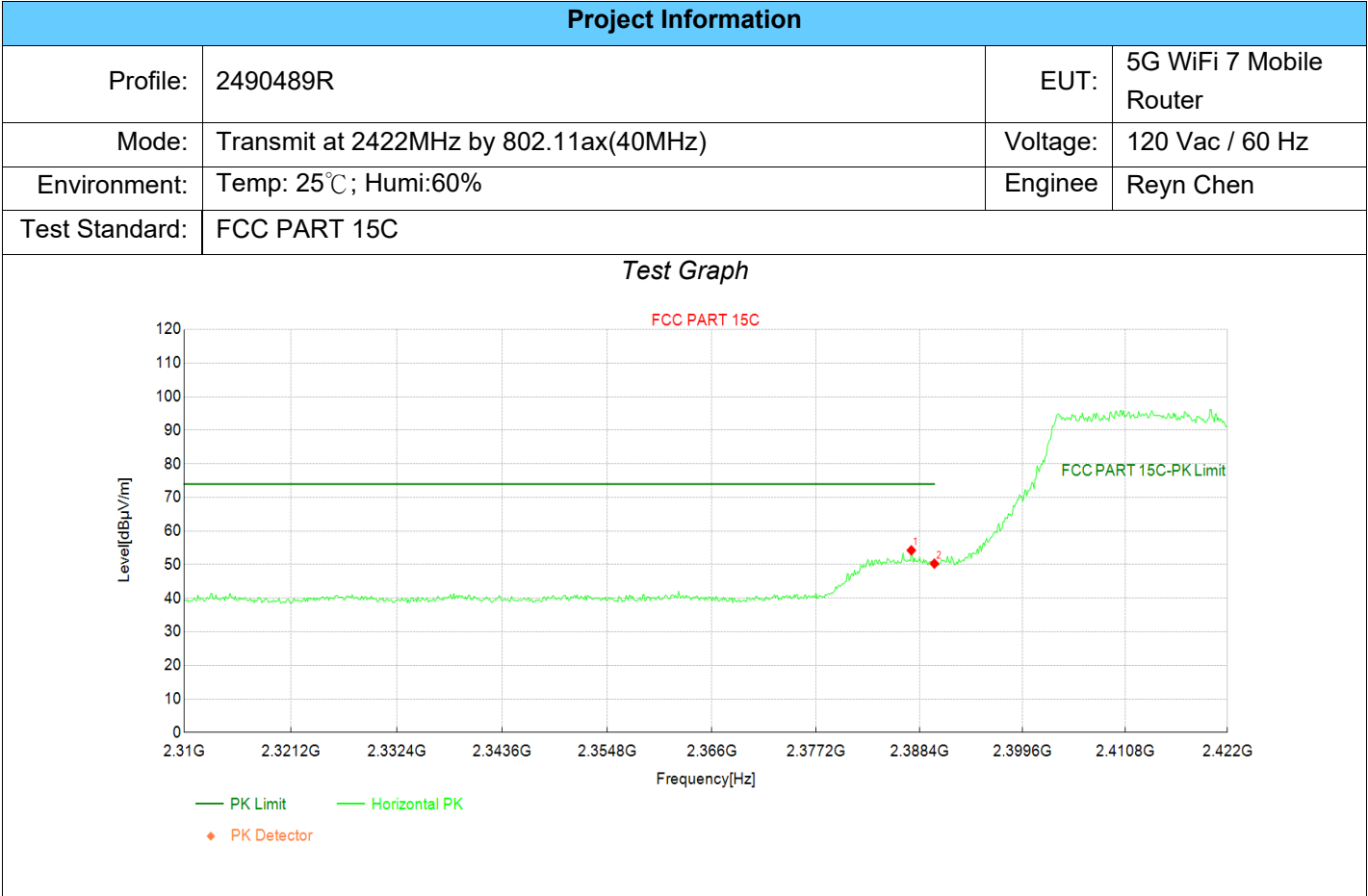
Test Graph



Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	29.84	33.93	4.09	54.00	20.07	AV	Vertic	PASS
2	2484.30	29.93	34.04	4.11	54.00	19.96	AV	Vertic	PASS

Test Report



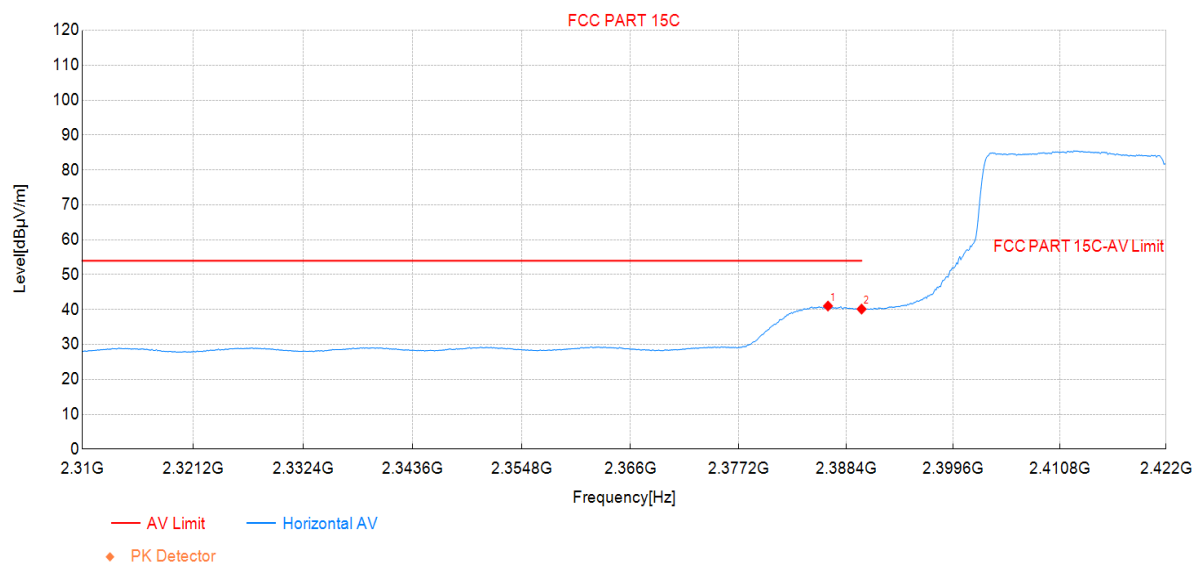
Suspected Data List									
NO	Frequency [MHz]	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Det	Pol	Verdict
1	2387.50	50.62	54.25	3.63	74.00	19.75	PK	Horizo	PASS
2	2390.00	46.64	50.29	3.65	74.00	23.71	PK	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2422MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

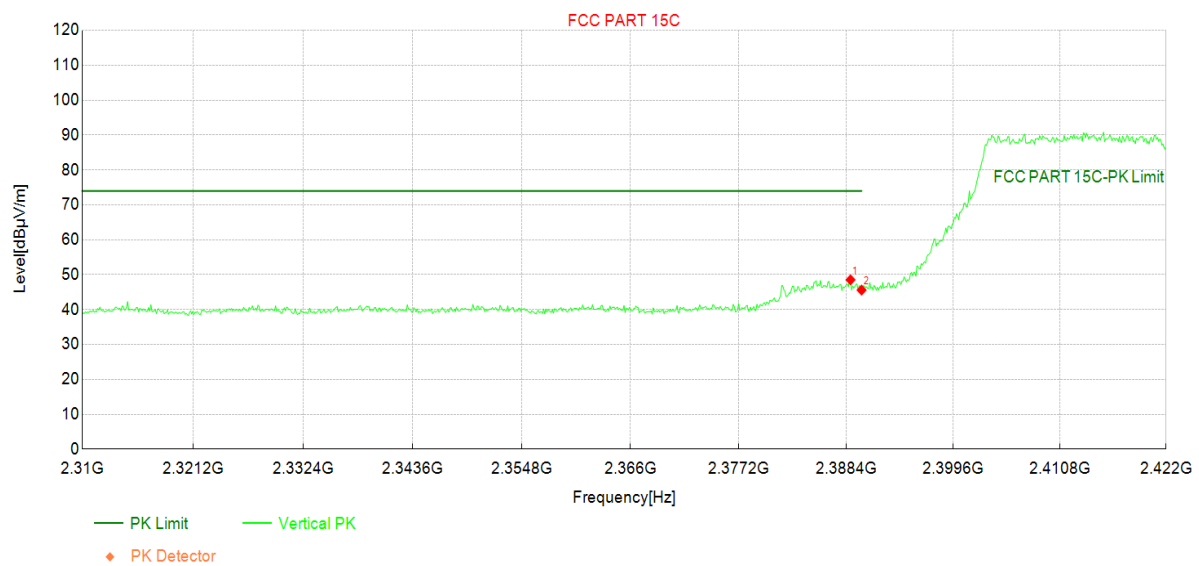
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386.50	37.38	41.01	3.63	54.00	12.99	AV	Horizo	PASS
2	2390.00	36.49	40.14	3.65	54.00	13.86	AV	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2422MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

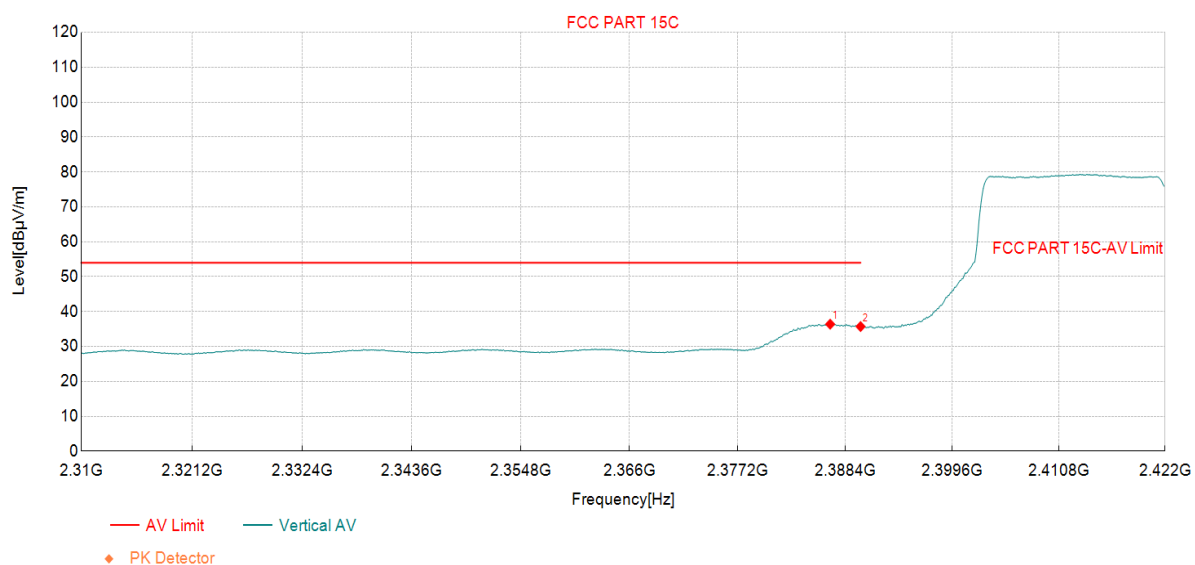
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2388.85	44.88	48.52	3.64	74.00	25.48	PK	Vertic	PASS
2	2390.00	41.93	45.58	3.65	74.00	28.42	PK	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2422MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

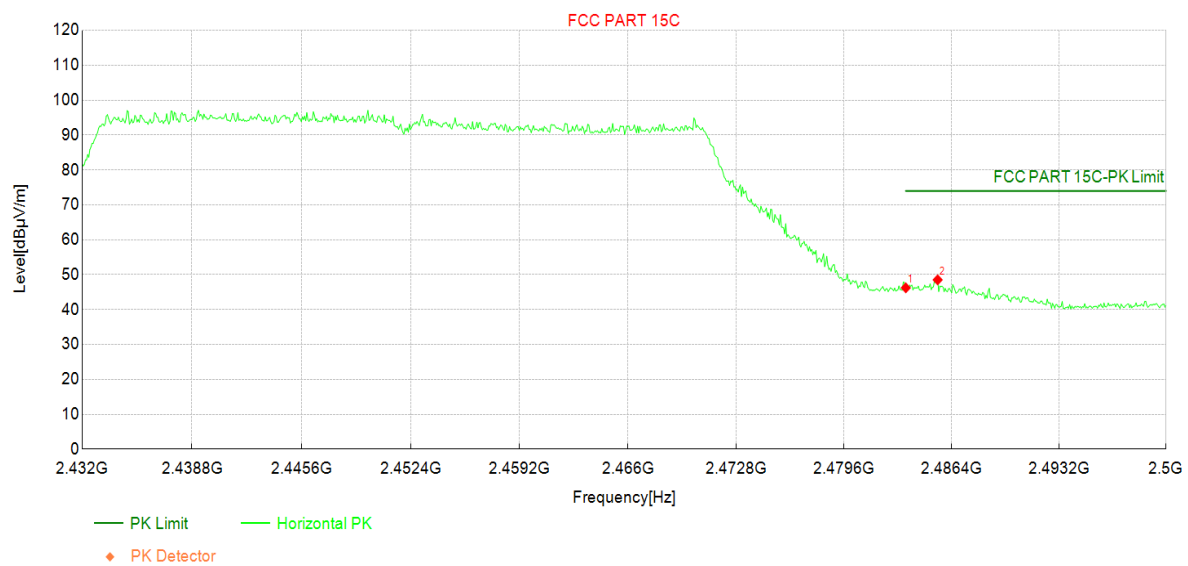
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2386.83	32.75	36.38	3.63	54.00	17.62	AV	Vertic	PASS
2	2390.00	32.05	35.70	3.65	54.00	18.30	AV	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2452MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



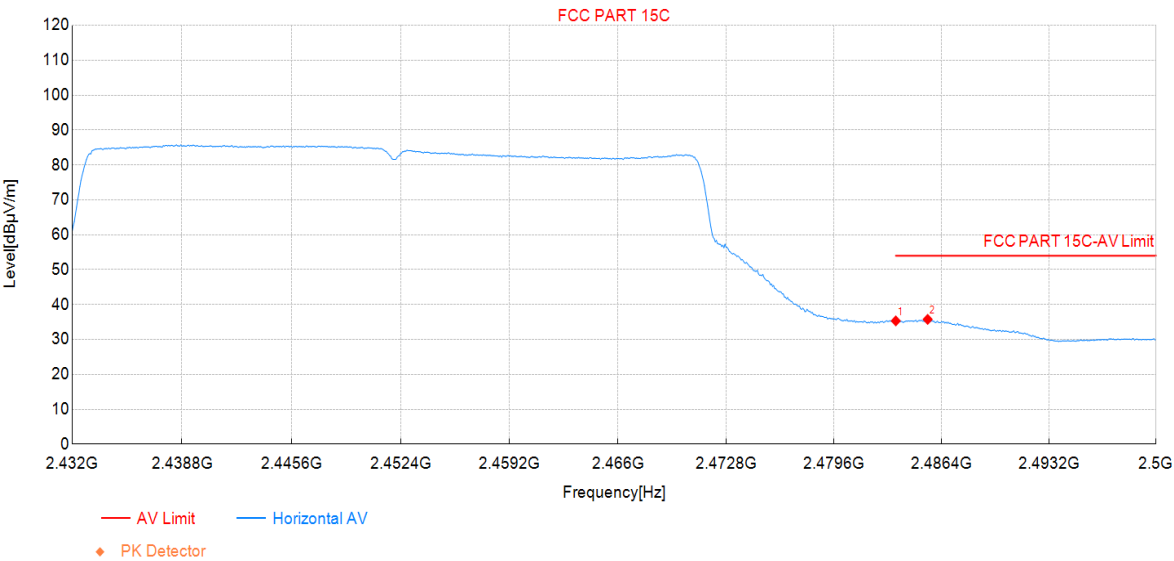
Suspected Data List

NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	42.14	46.23	4.09	74.00	27.77	PK	Horizo	PASS
2	2485.52	44.41	48.52	4.11	74.00	25.48	PK	Horizo	PASS

Test Report

Project Information			
Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2452MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25℃ ; Humi:60%	Enginee	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

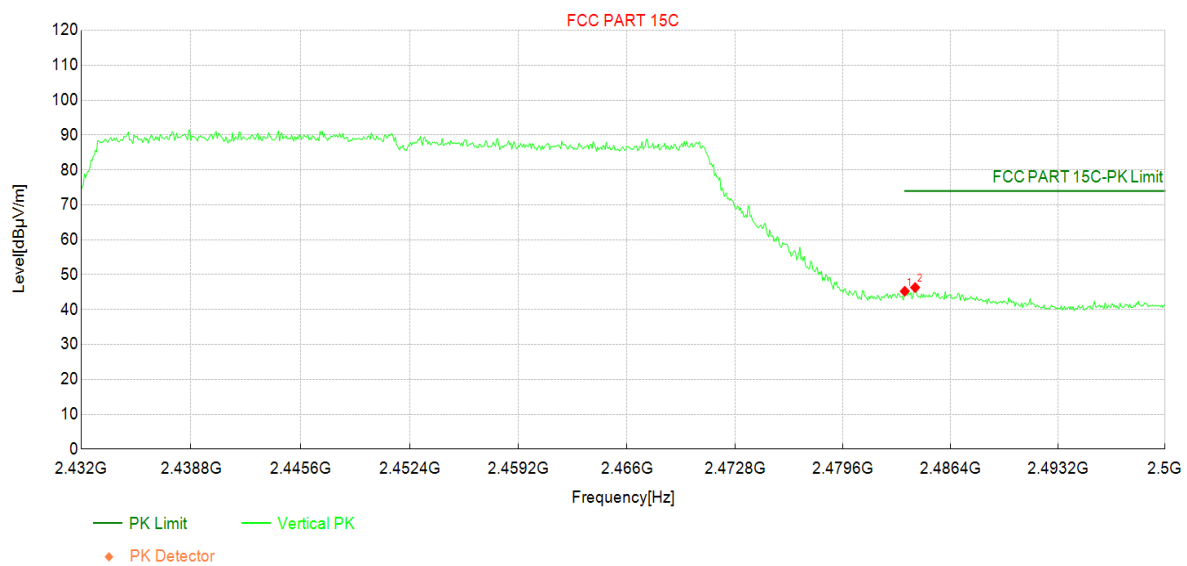
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	31.23	35.32	4.09	54.00	18.68	AV	Horizo	PASS
2	2485.52	31.65	35.76	4.11	54.00	18.24	AV	Horizo	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2452MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

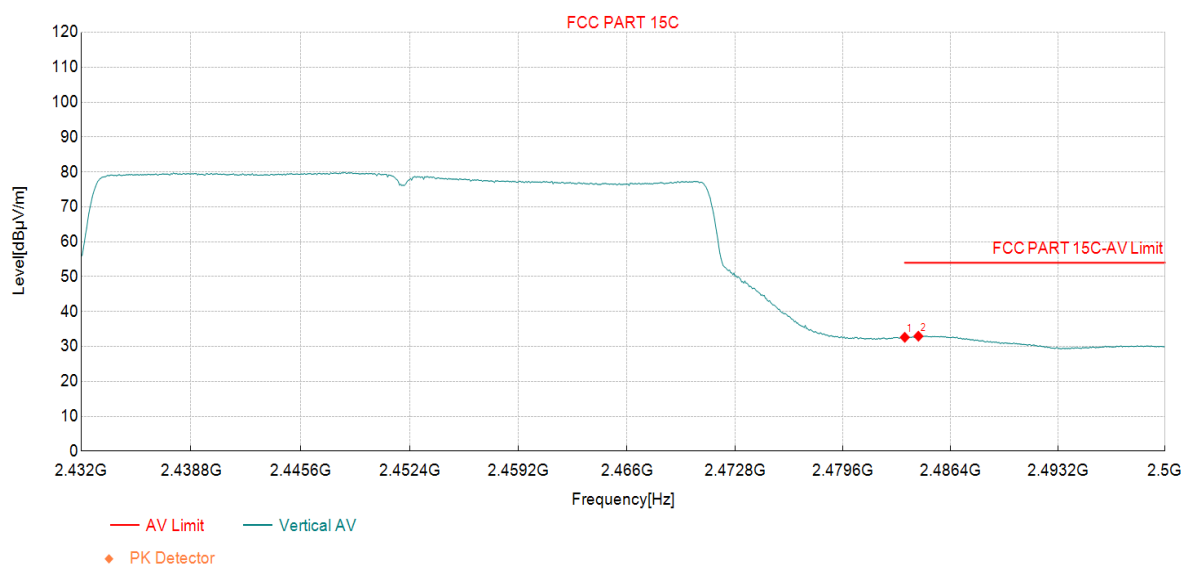
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	41.15	45.24	4.09	74.00	28.76	PK	Vertic	PASS
2	2484.16	42.21	46.32	4.11	74.00	27.68	PK	Vertic	PASS

Test Report

Project Information

Profile:	2490489R	EUT:	5G WiFi 7 Mobile Router
Mode:	Transmit at 2452MHz by 802.11ax(40MHz)	Voltage:	120 Vac / 60 Hz
Environment:	Temp: 25°C ; Humi:60%	Engineer	Reyn Chen
Test Standard:	FCC PART 15C		

Test Graph



Suspected Data List

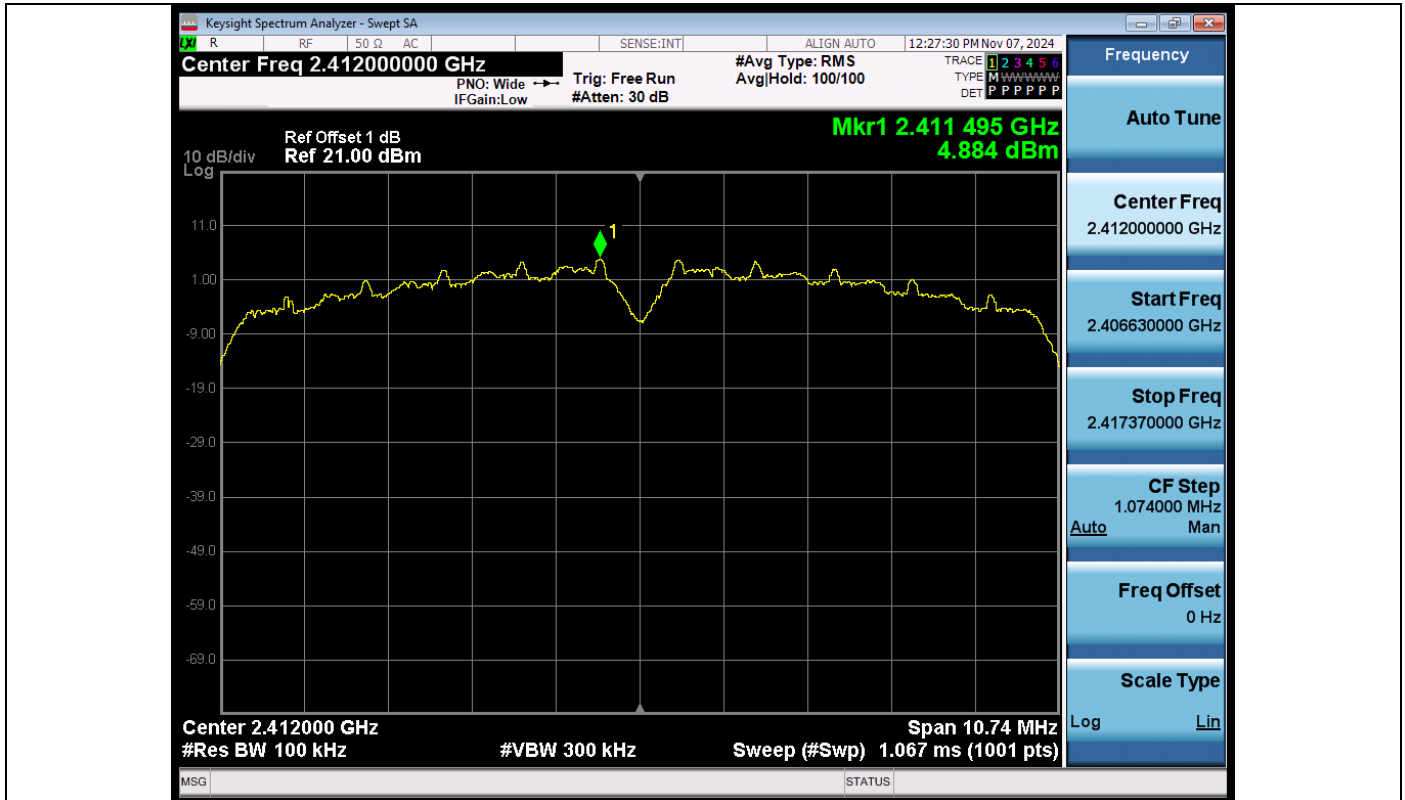
NO	Frequency [MHz]	Reading [dBμV]	Level [dBμV/m]	Factor [dB/m]	Limit [dBμV/m]	Margin [dB]	Det	Pol	Verdict
1	2483.50	28.53	32.62	4.09	54.00	21.38	AV	Vertic	PASS
2	2484.36	28.84	32.95	4.11	54.00	21.05	AV	Vertic	PASS

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

Appendix E: Conducted Spurious Emission

Reference level measurement



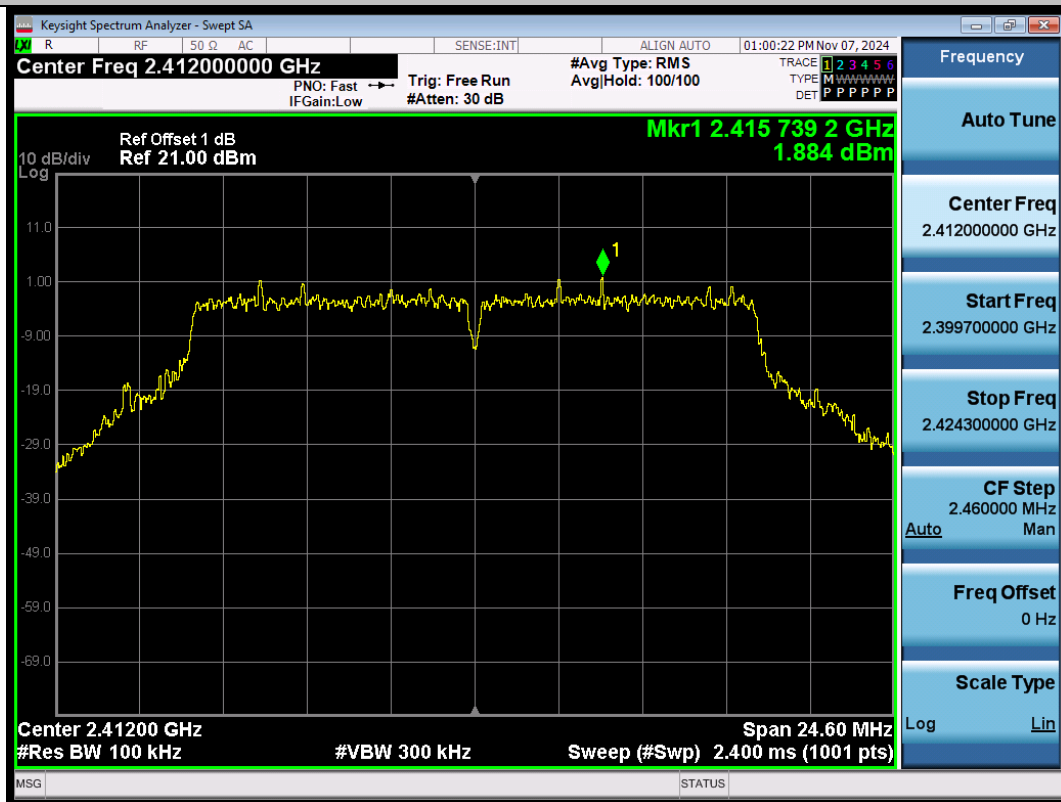
11B-2412-PASS



11B-2437-PASS



11B-2462-PASS



11G-2412-PASS



11G-2437-PASS



11G-2462-PASS



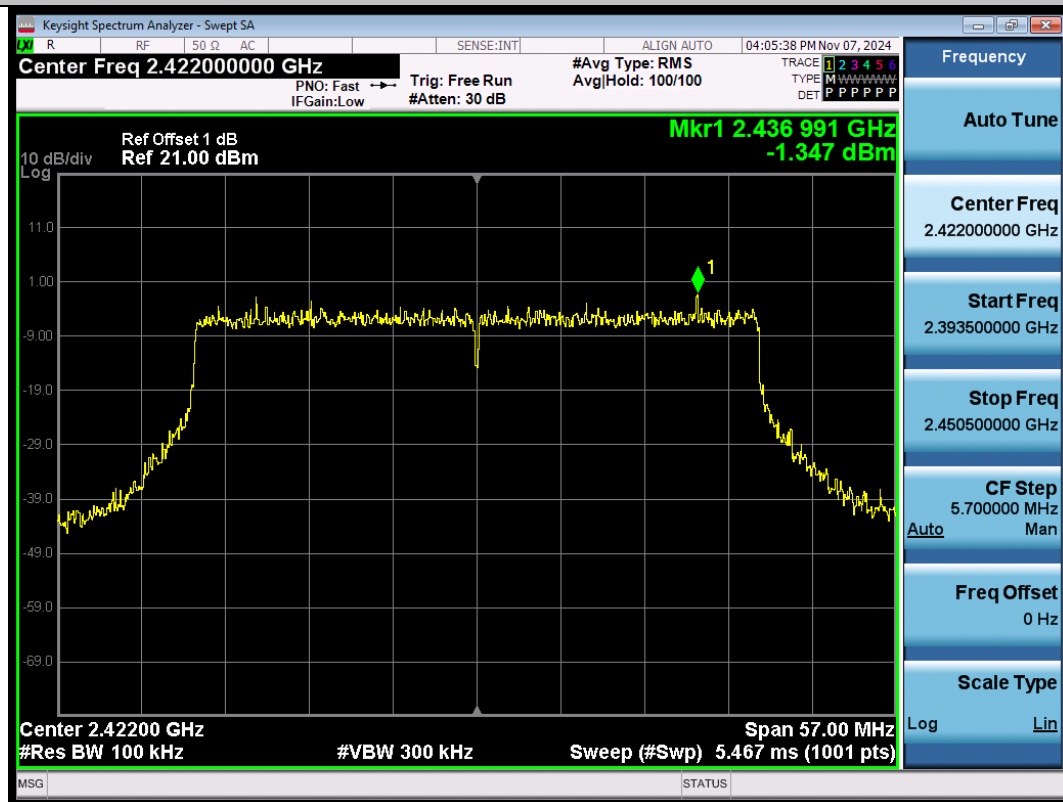
11AX20-2412-PASS



11AX20-2437-PASS



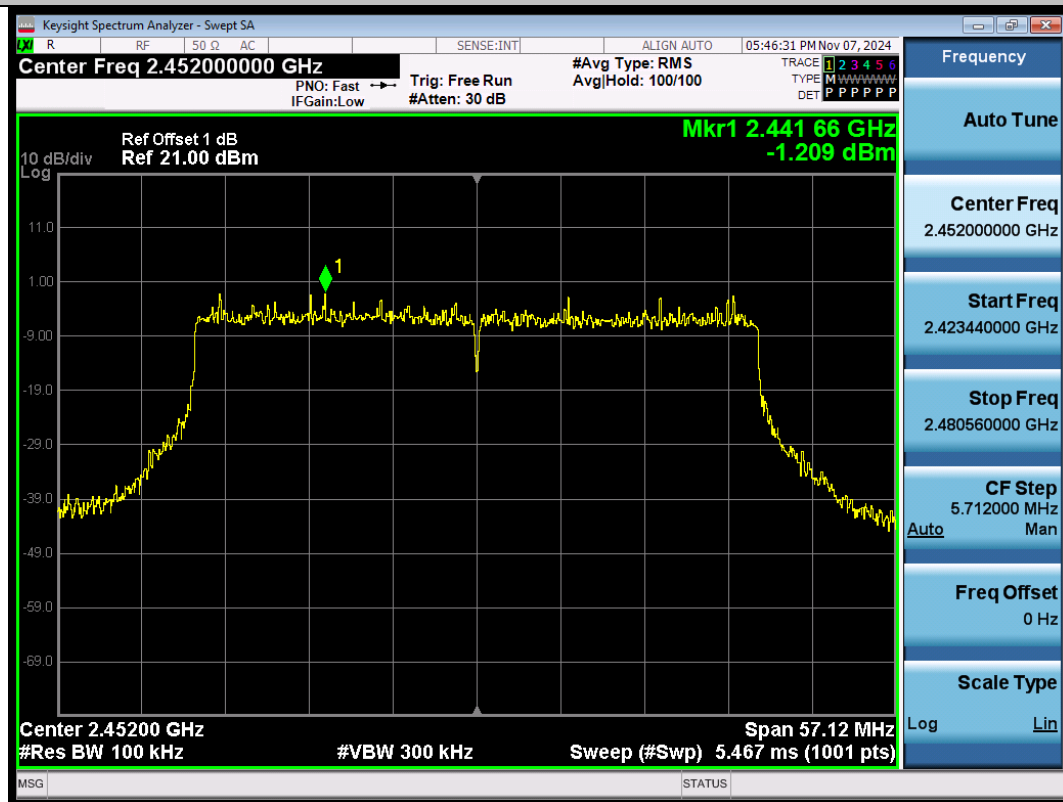
11AX20-2462-PASS



11AX40-2422-PASS

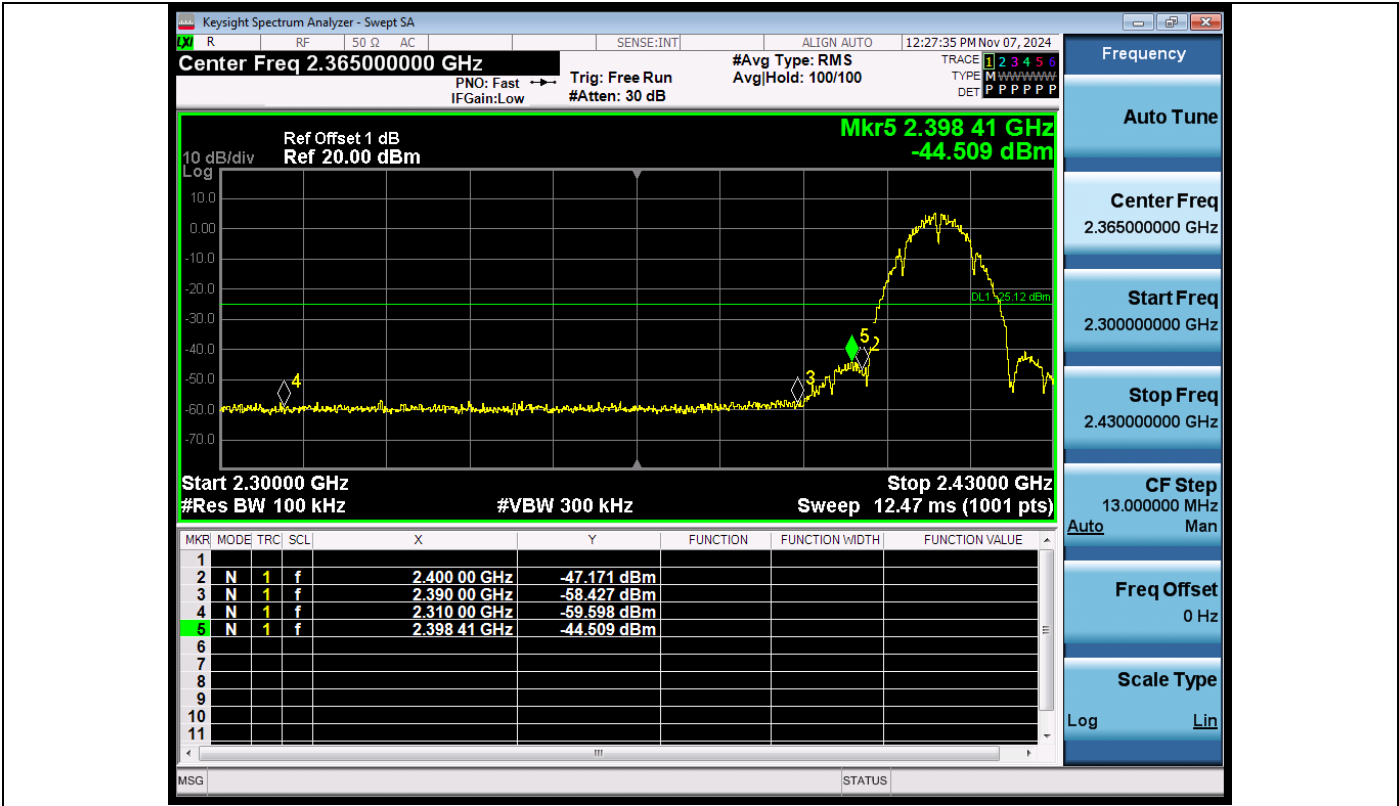


11AX40-2437-PASS

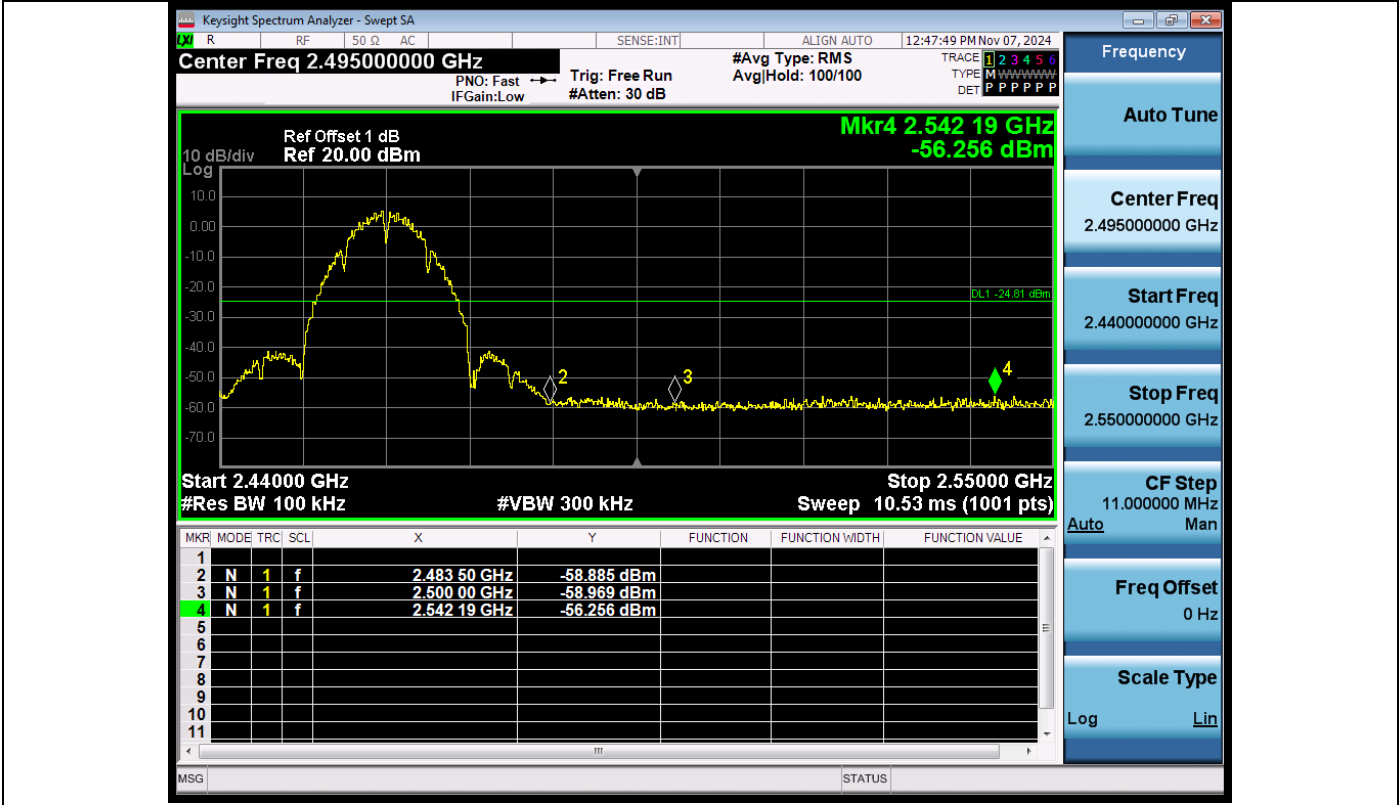


11AX40-2452-PASS

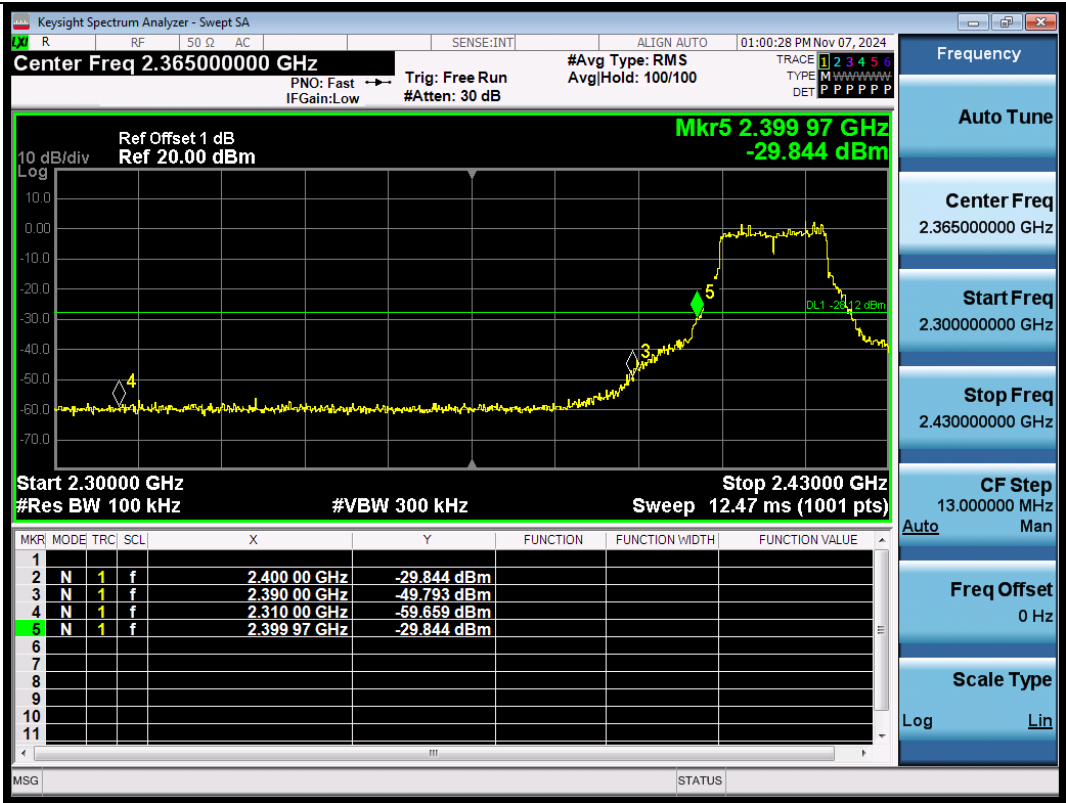
Band edge measurements



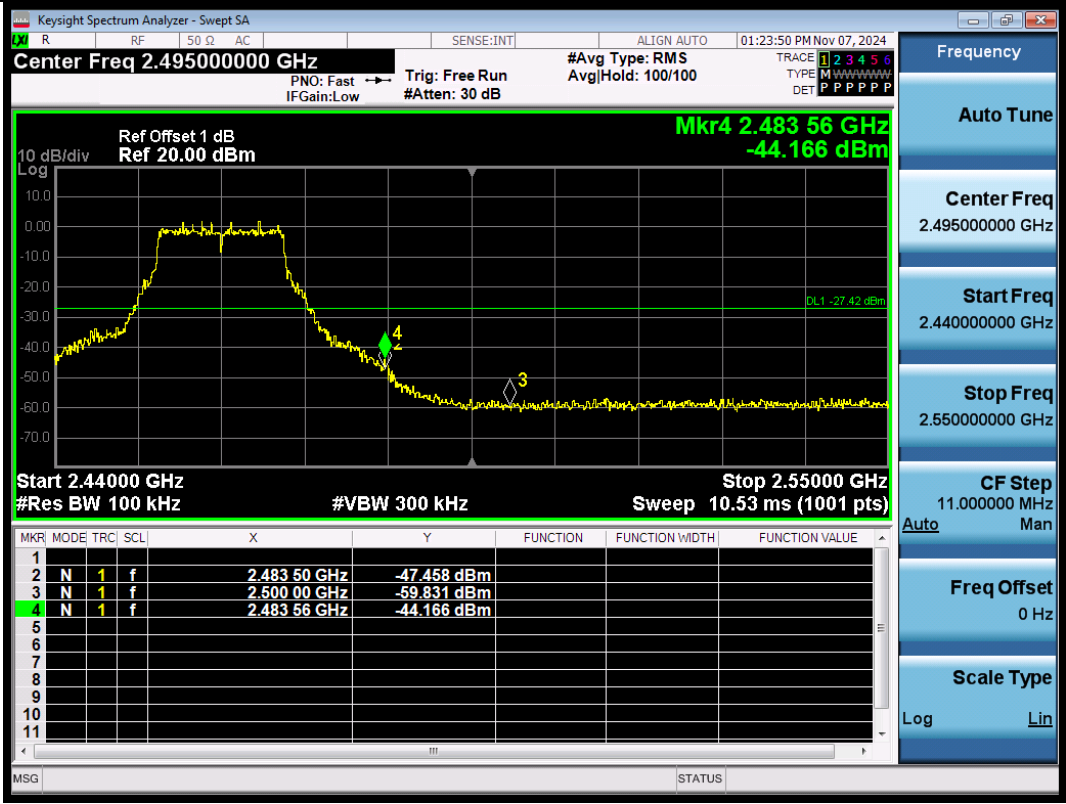
11B-2412-PASS



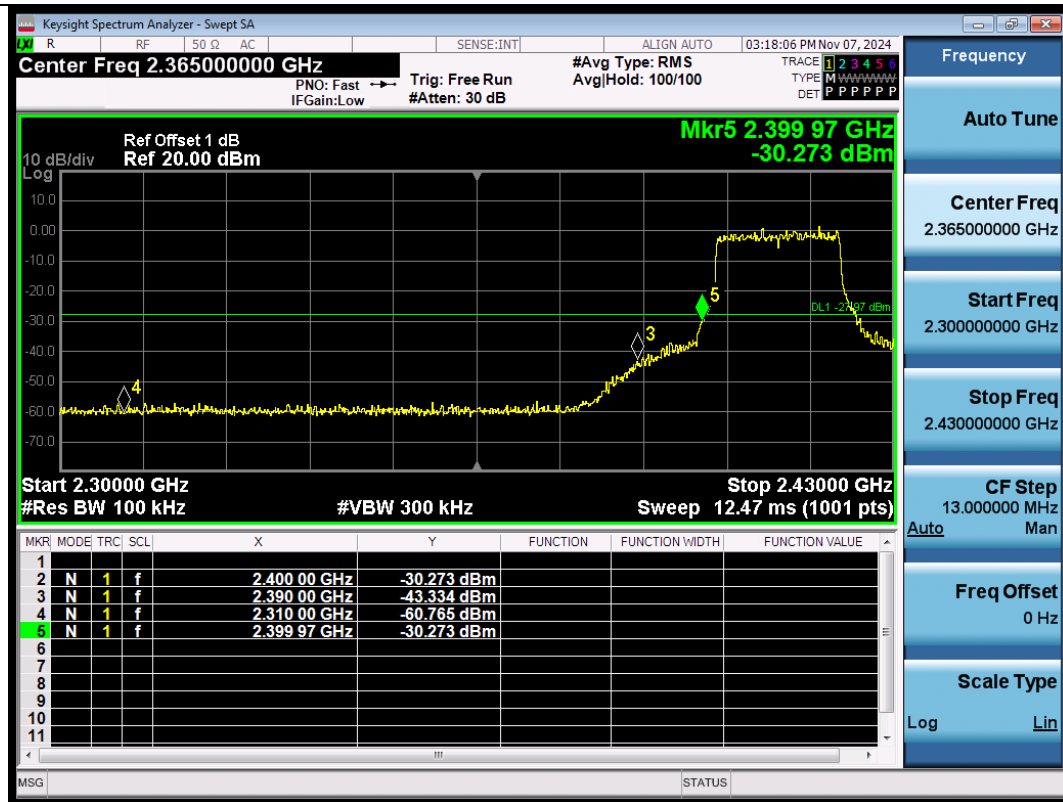
11B-2462-PASS



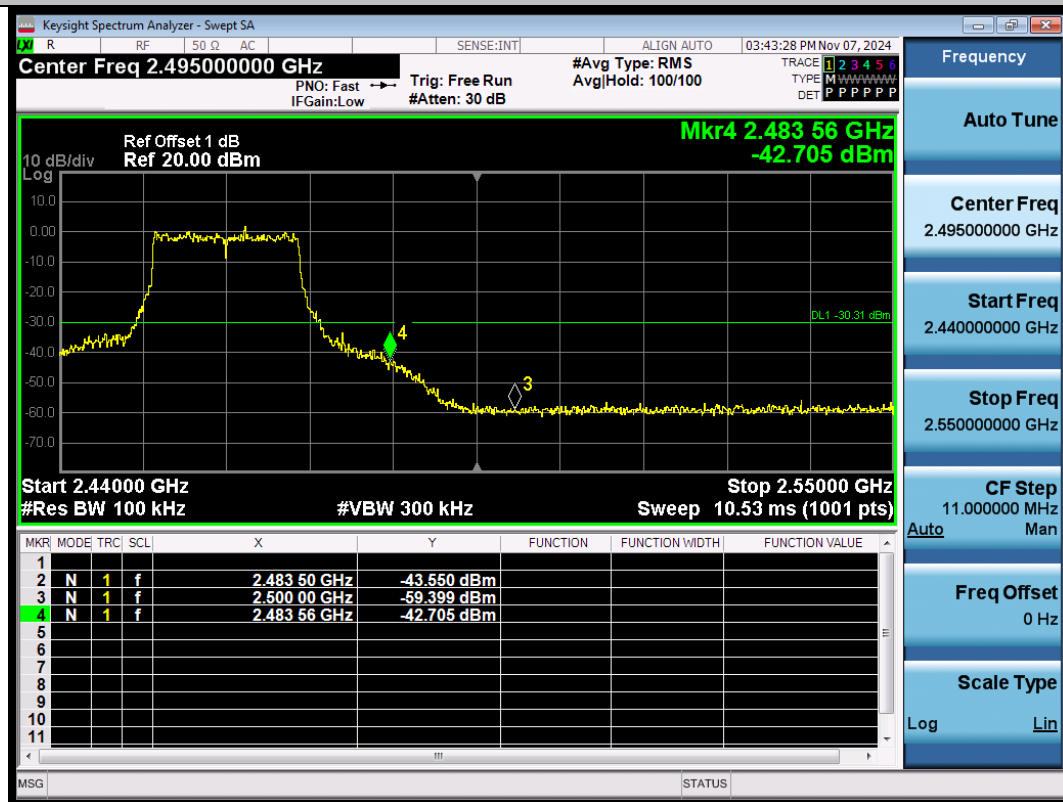
11G-2412-PASS



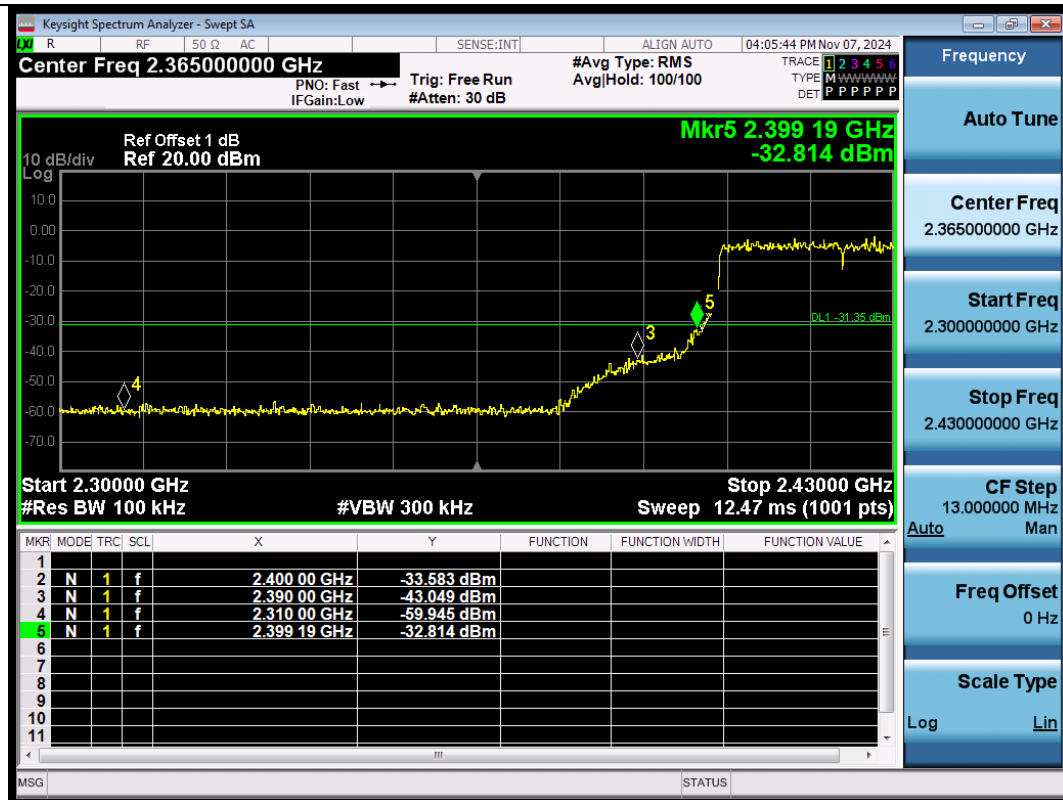
11G-2462-PASS



11AX20-2412-PASS



11AX20-2462-PASS

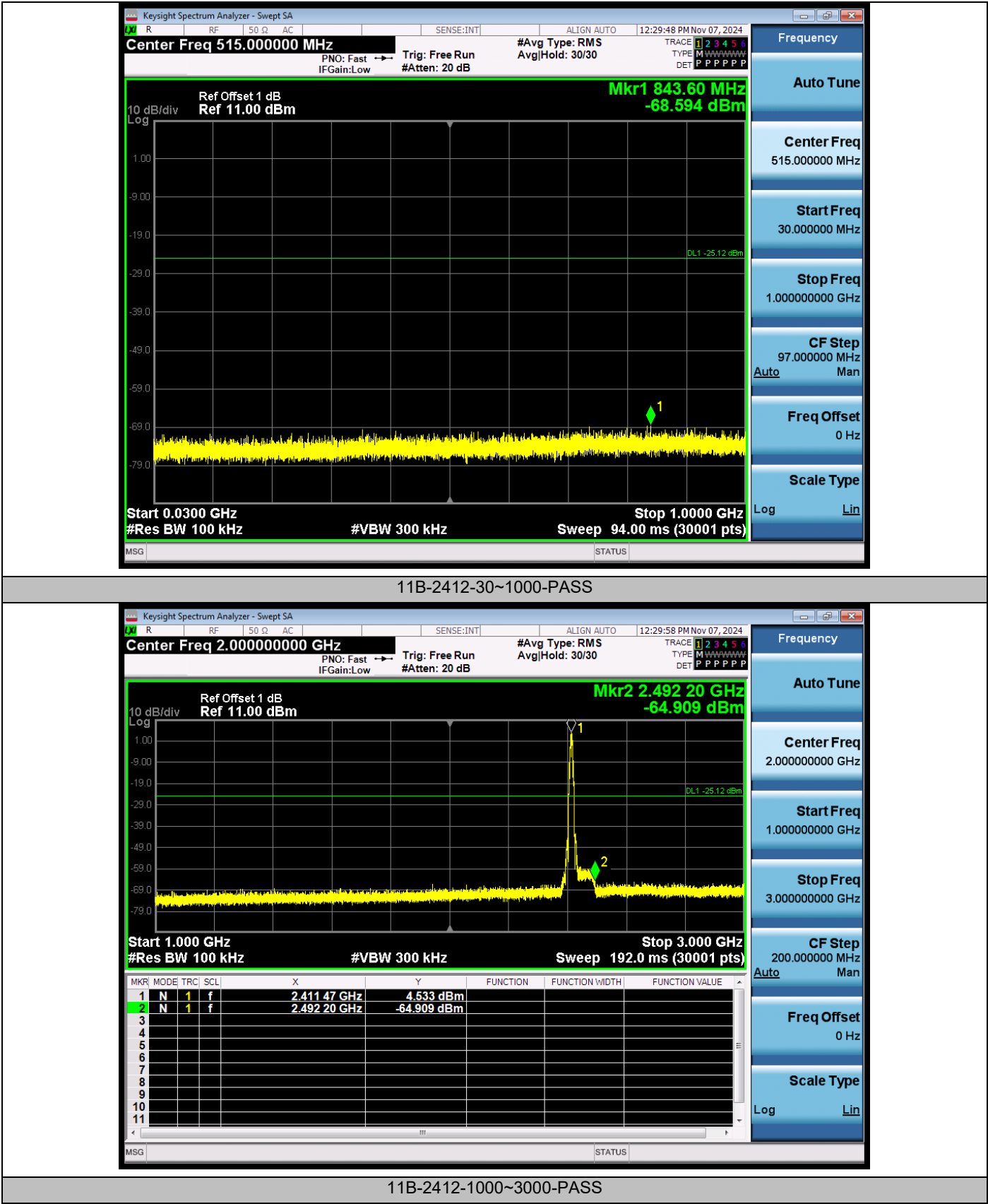


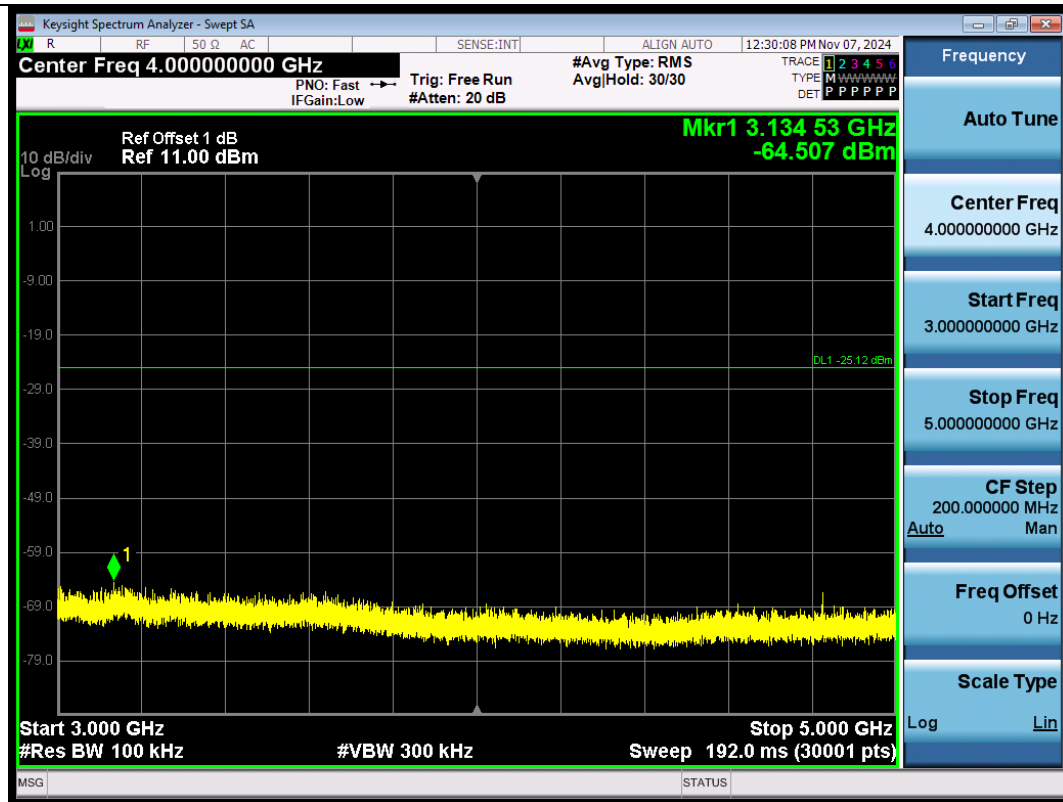
11AX40-2422-PASS



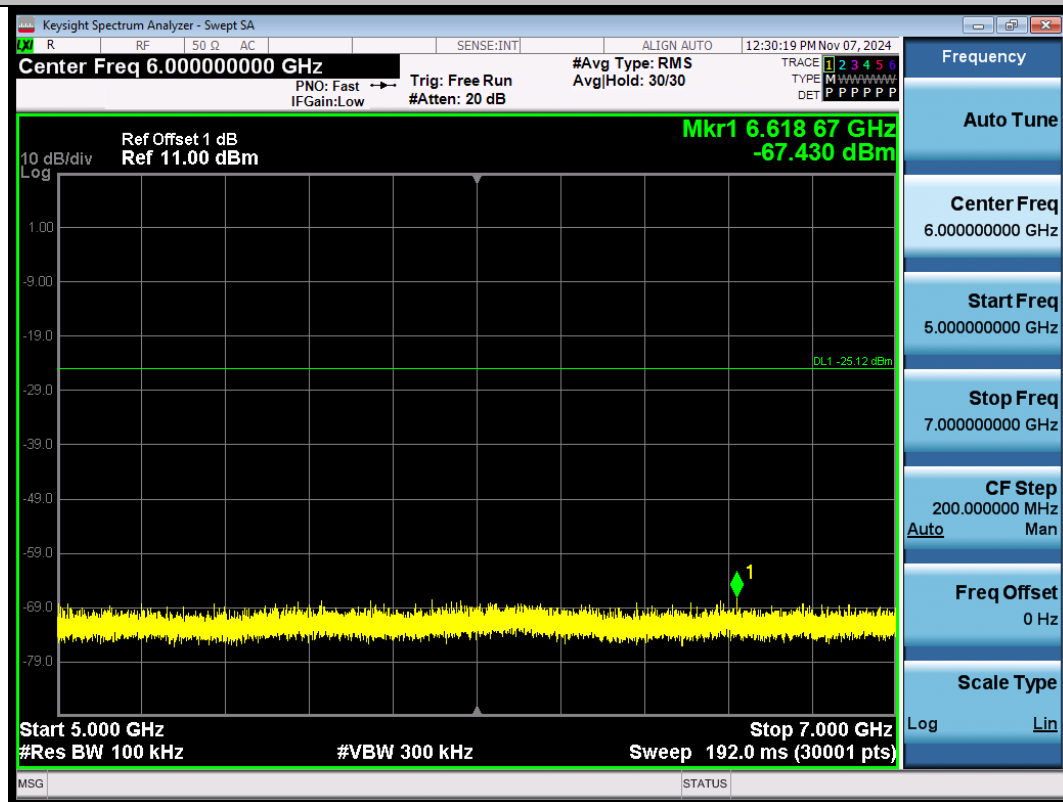
11AX40-2452-PASS

Conducted Spurious Emission

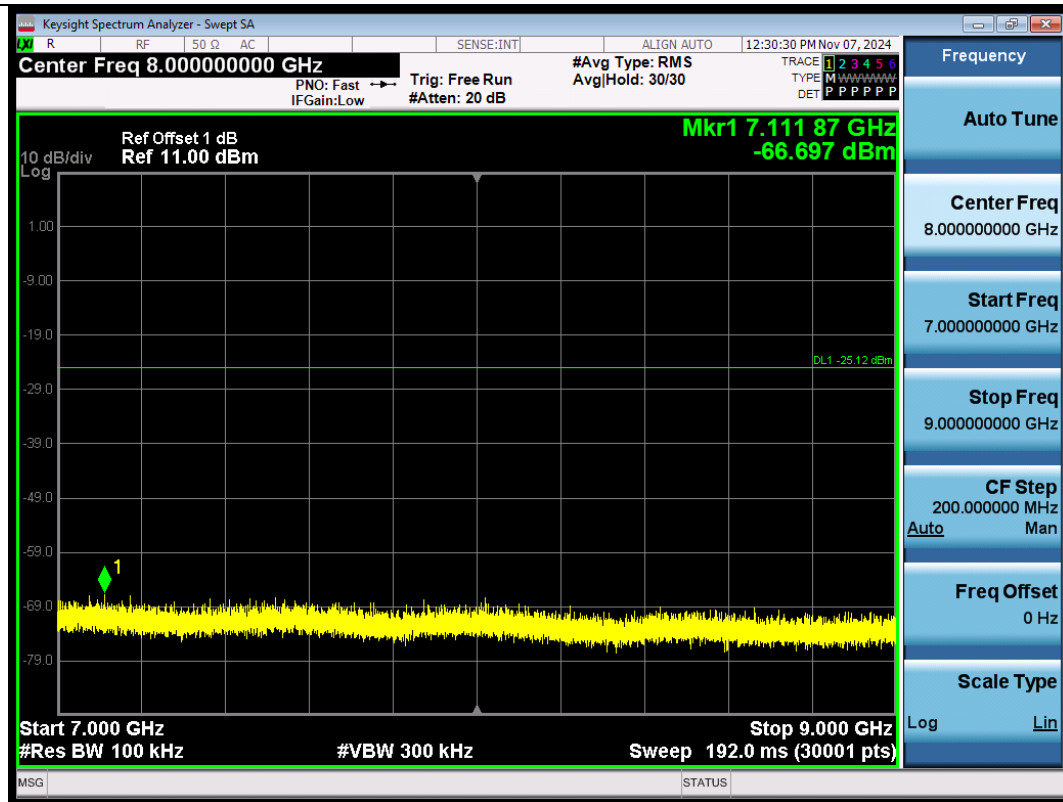




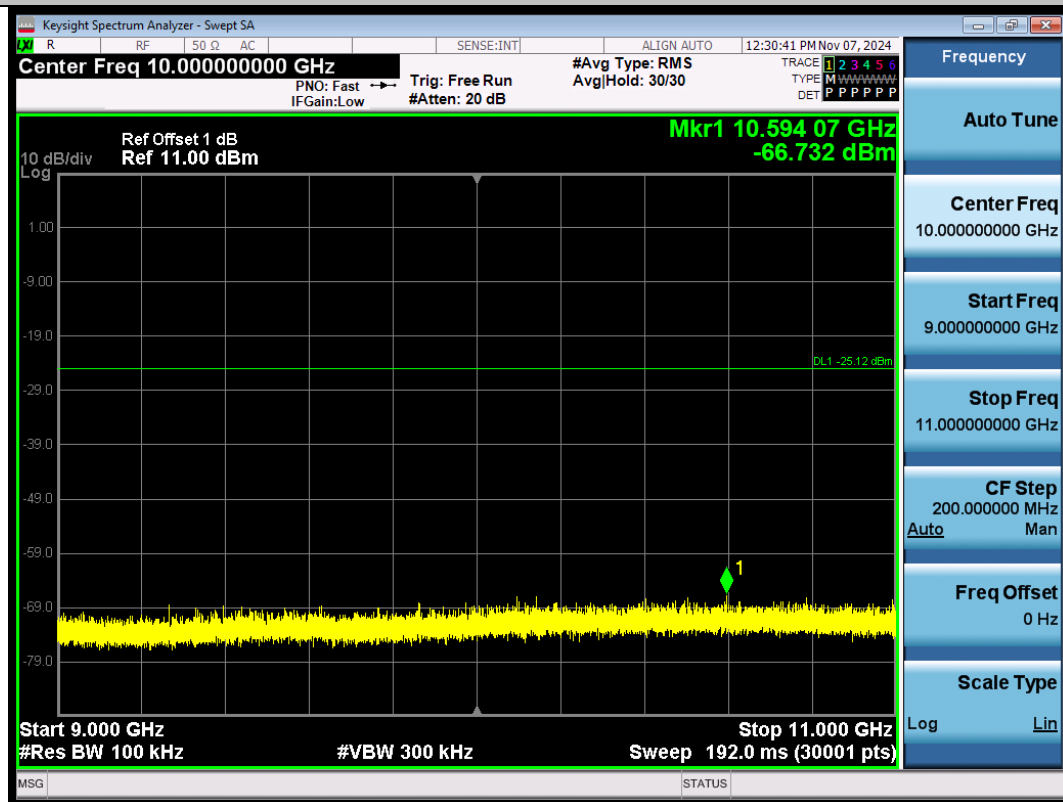
11B-2412-3000~5000-PASS



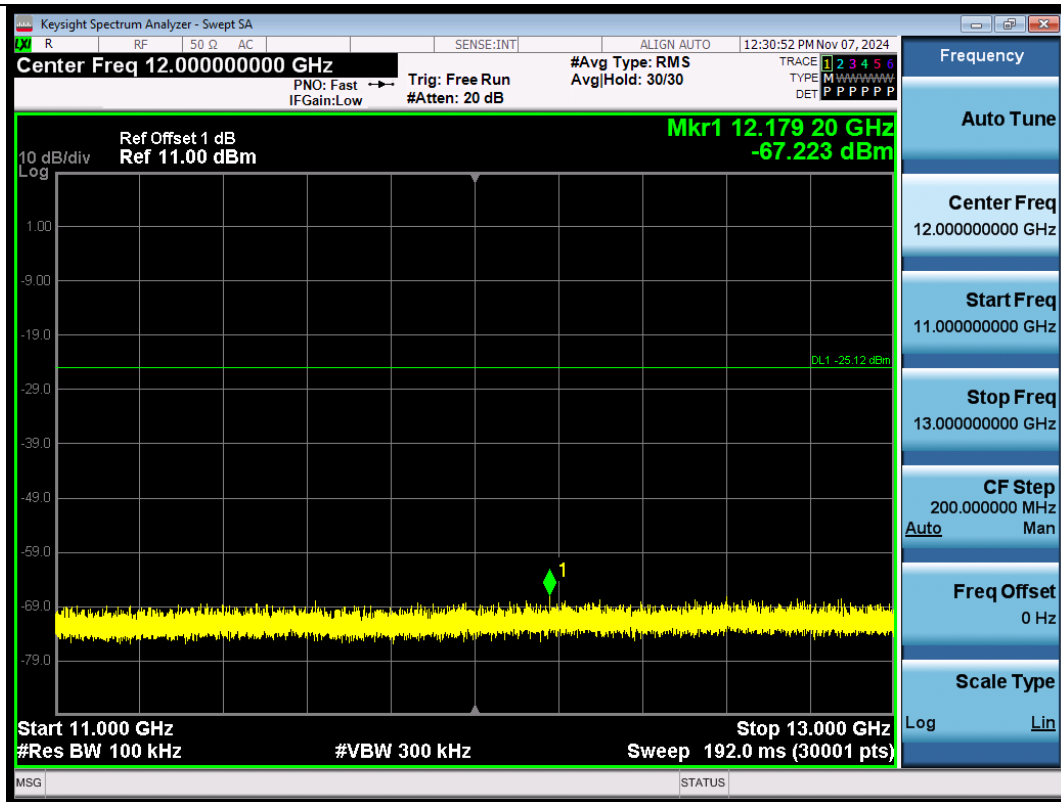
11B-2412-5000~7000-PASS



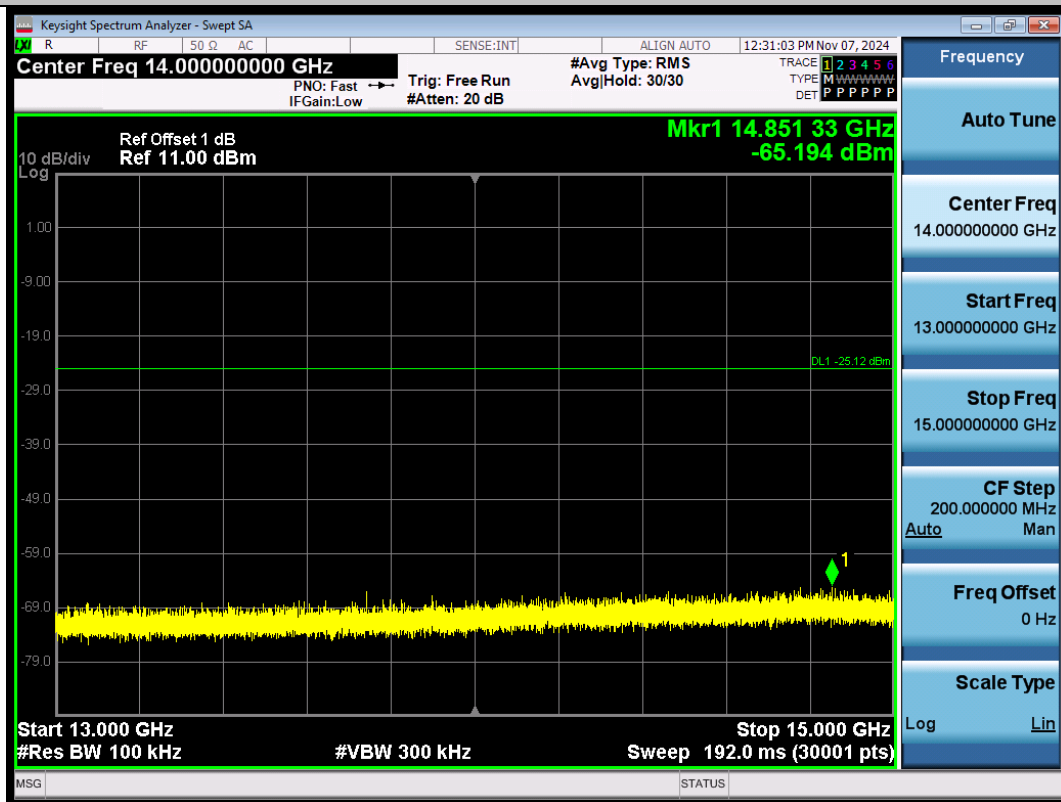
11B-2412-7000~9000-PASS



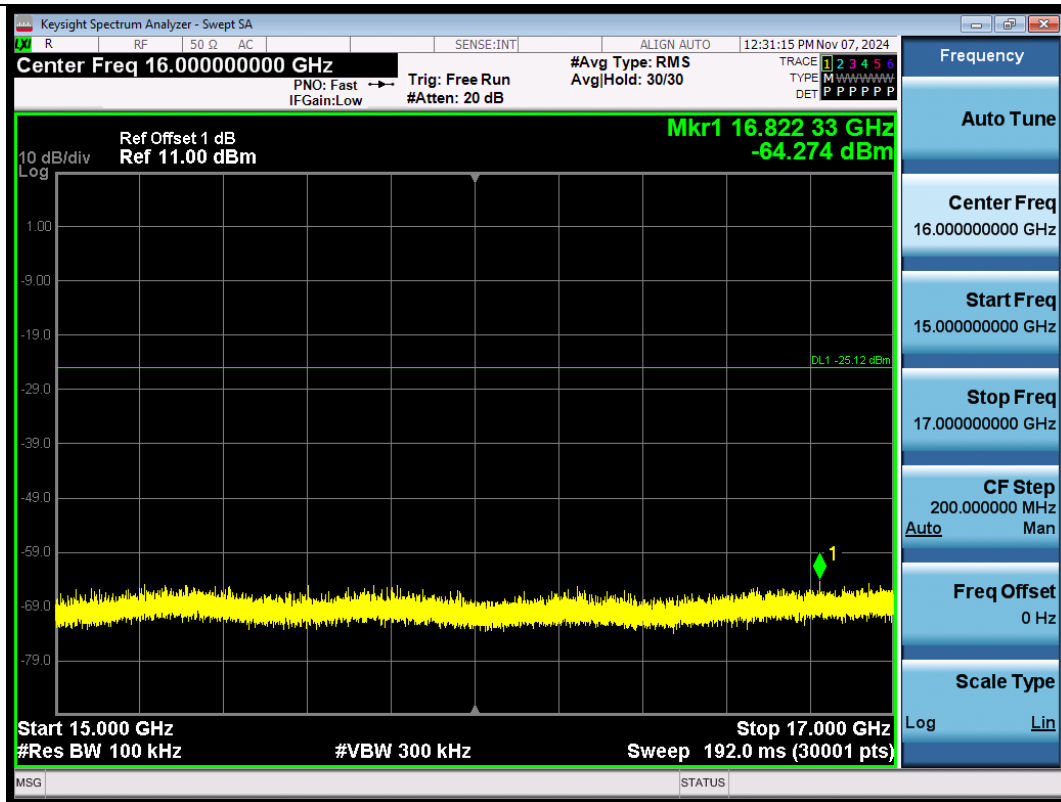
11B-2412-9000~11000-PASS



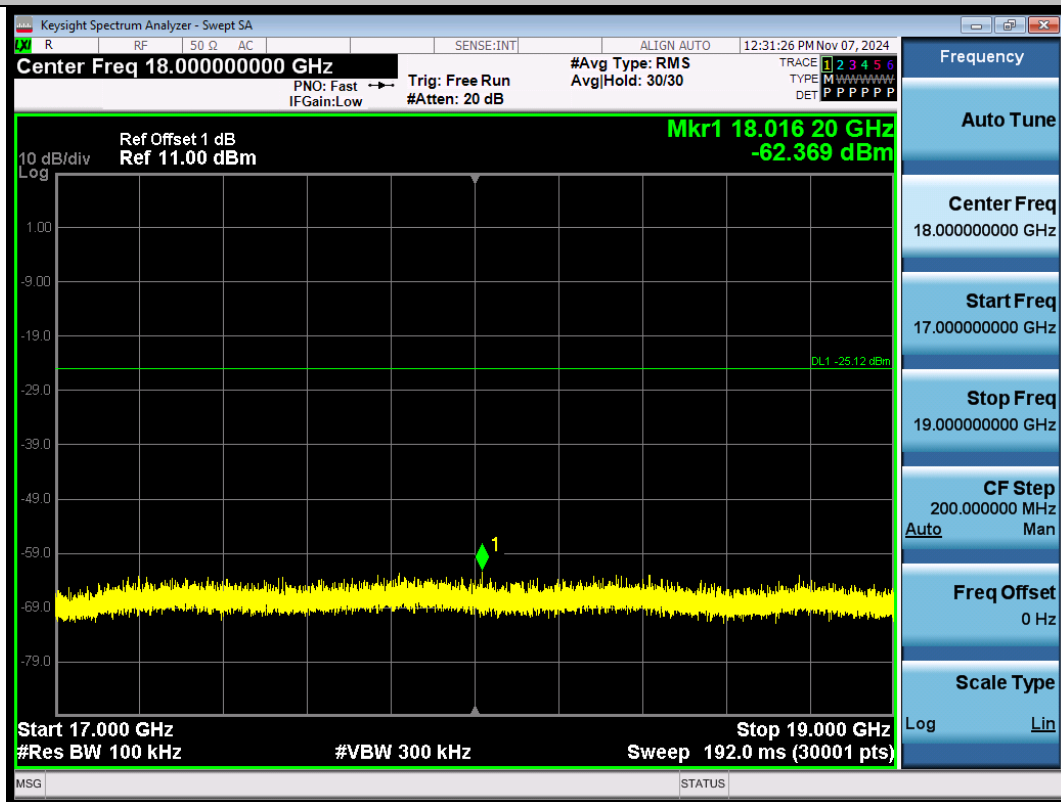
11B-2412-11000~13000-PASS



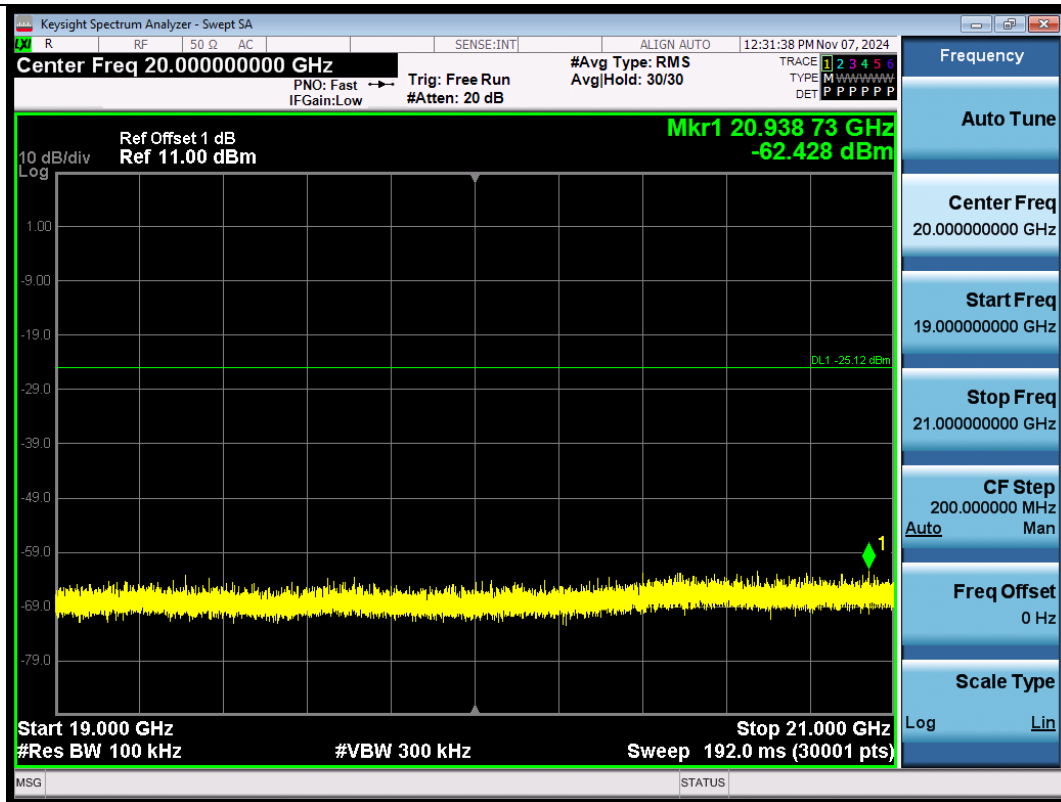
11B-2412-13000~15000-PASS



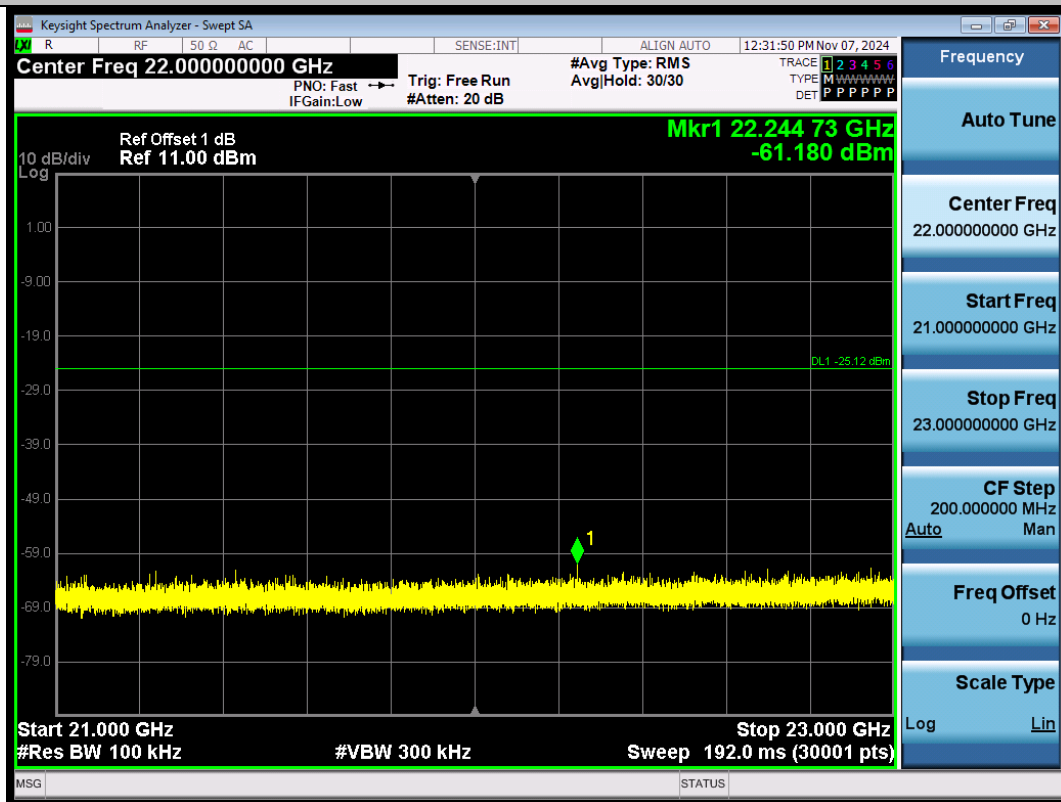
11B-2412-15000~17000-PASS



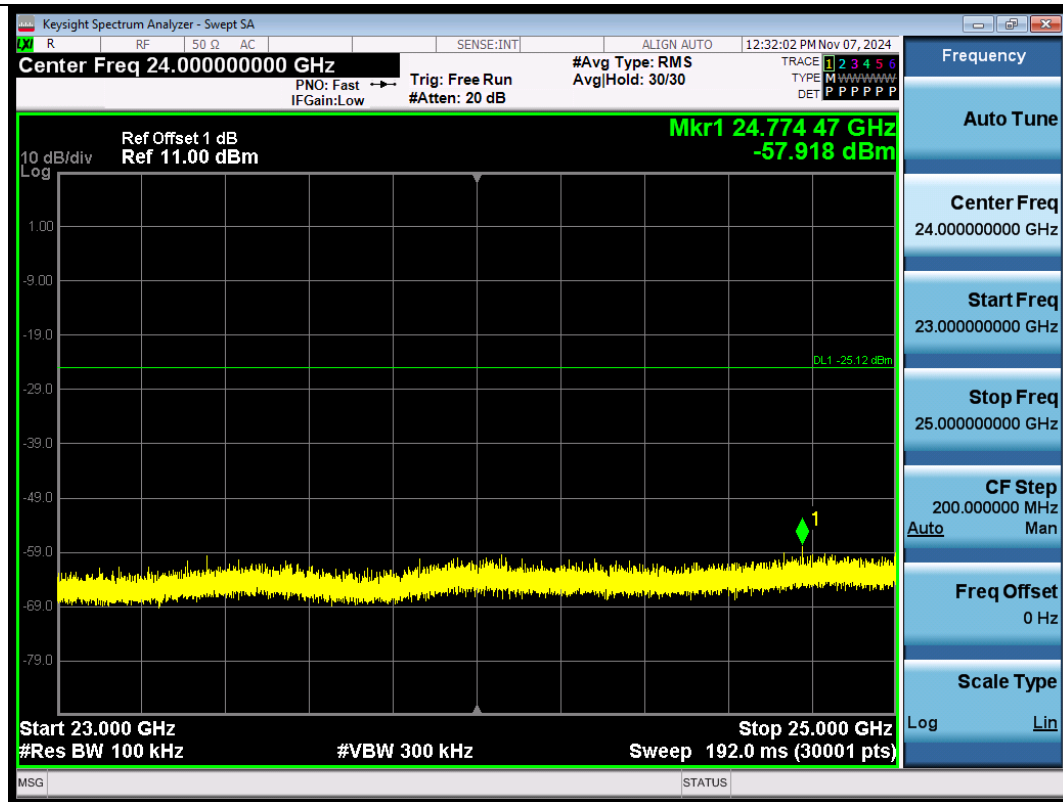
11B-2412-17000~19000-PASS



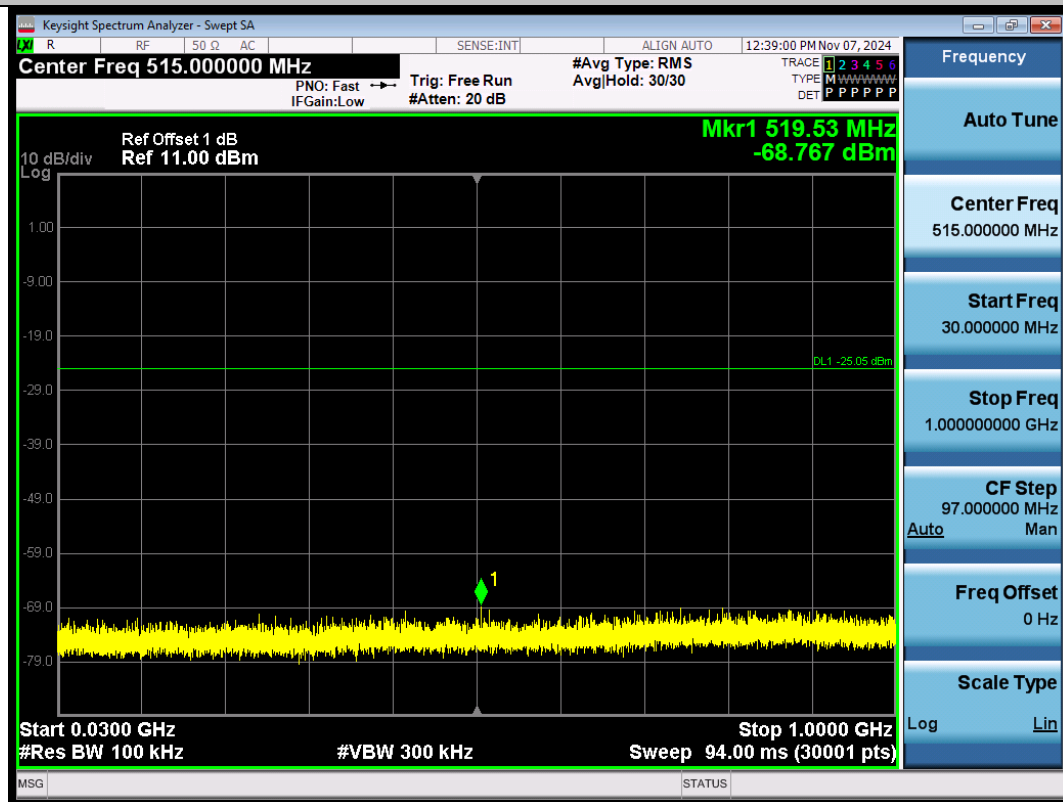
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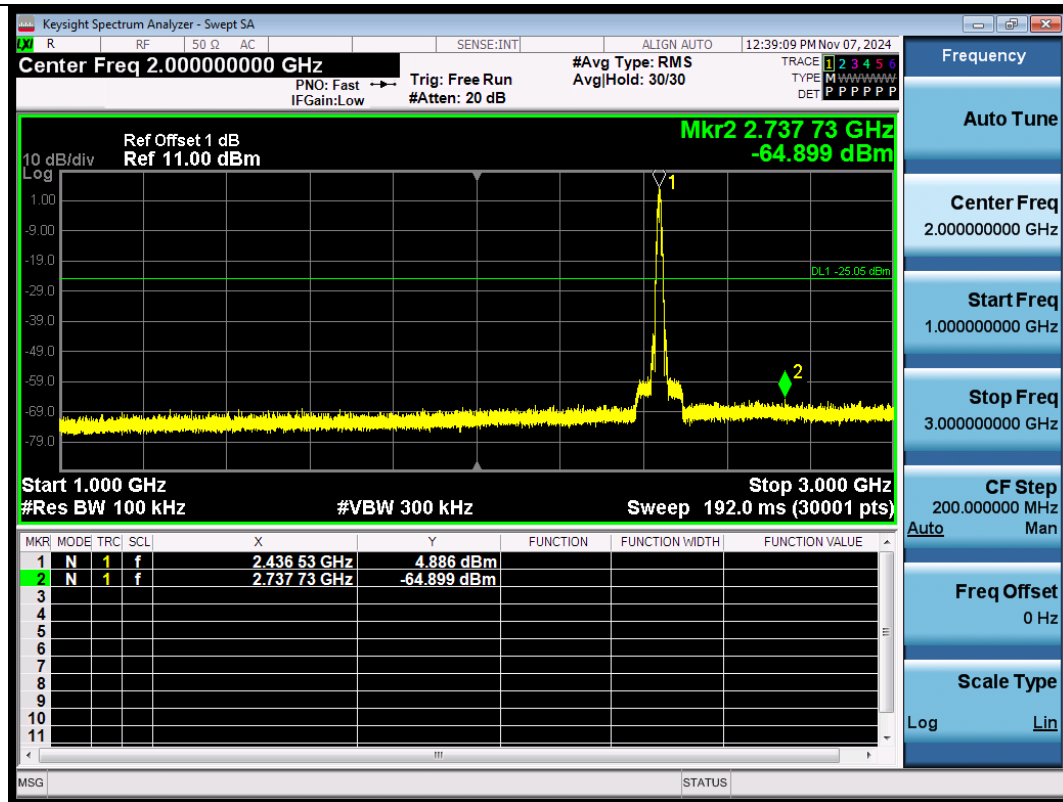
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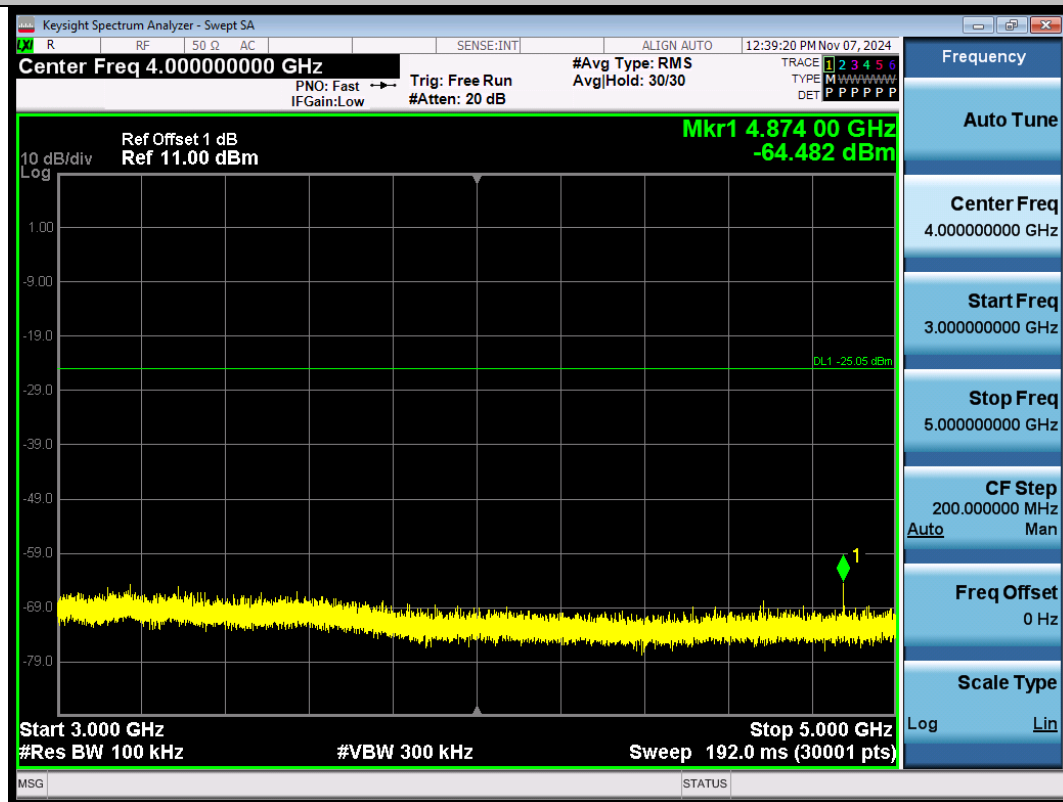
11B-2412-23000~25000-PASS



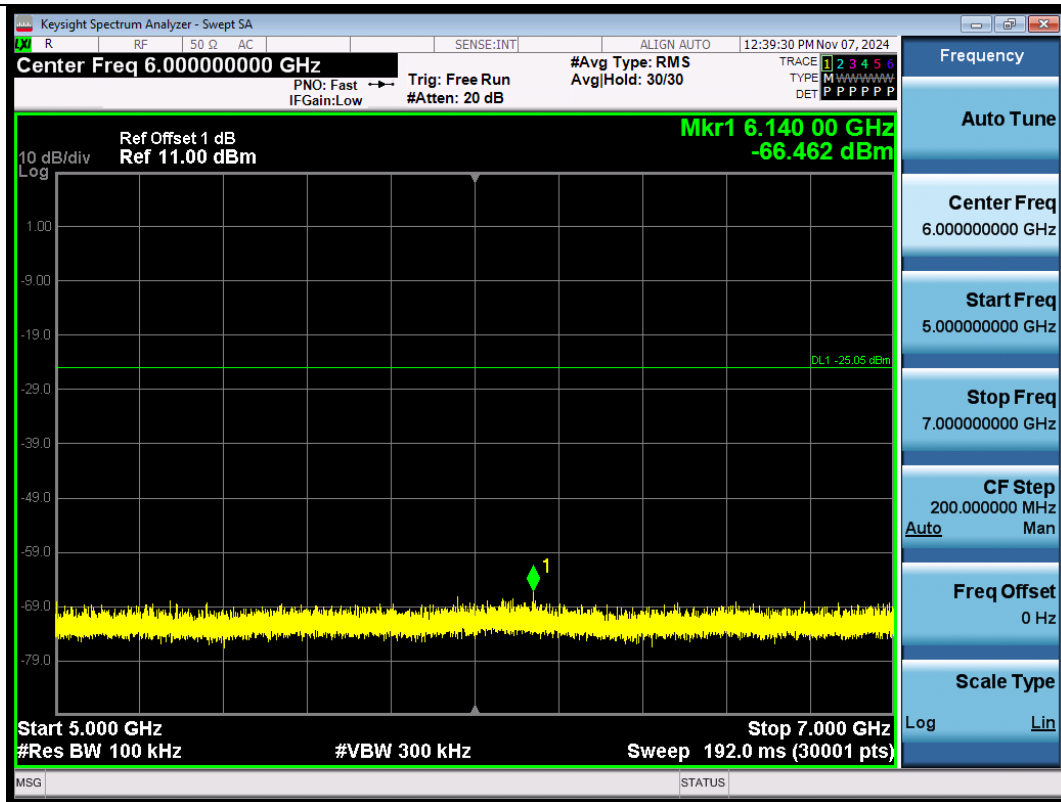
11B-2437-30~1000-PASS



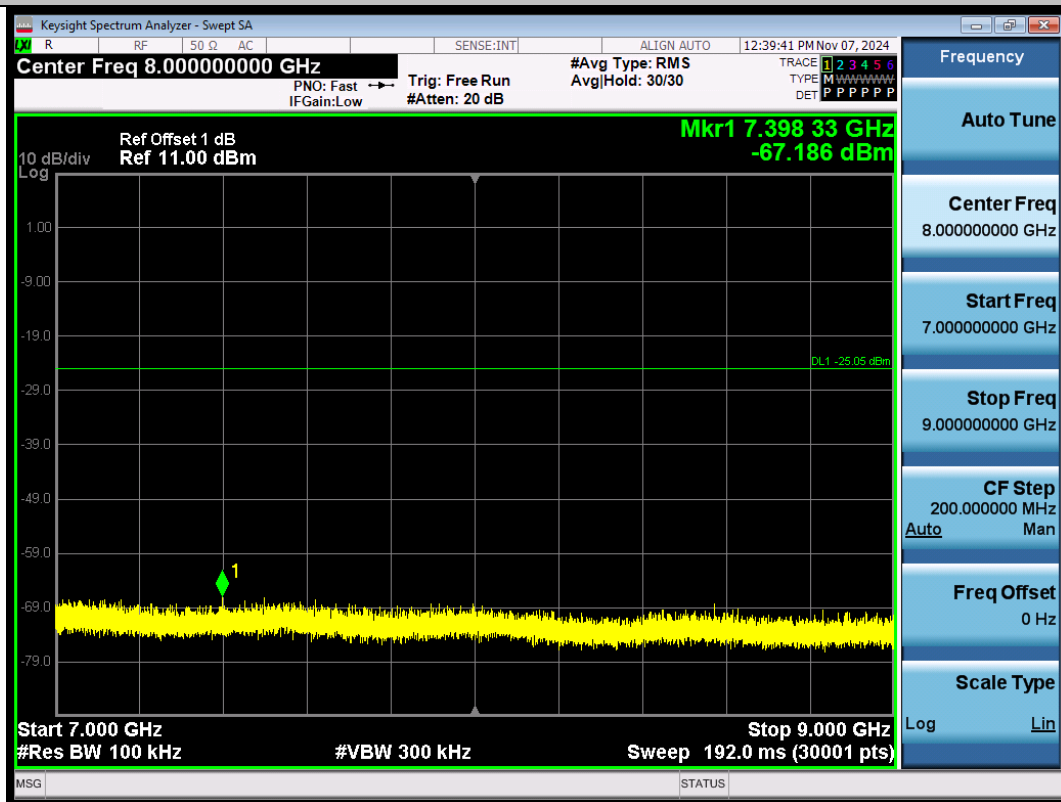
11B-2437-1000~3000-PASS



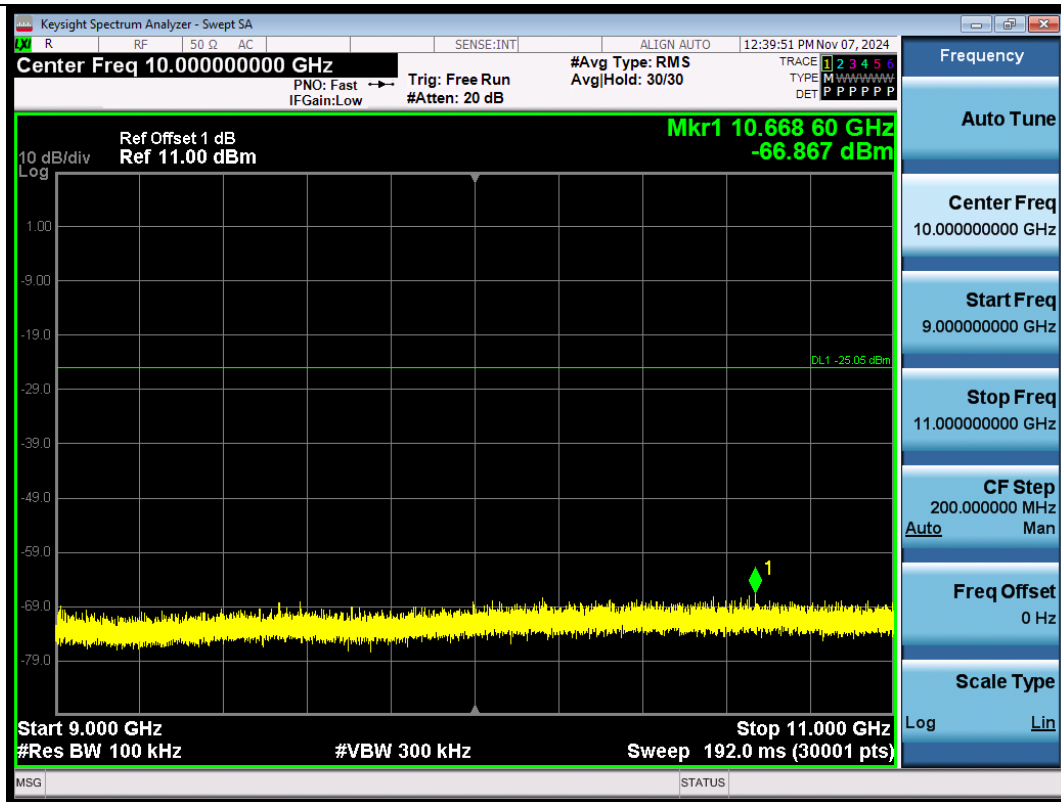
11B-2437-3000~5000-PASS



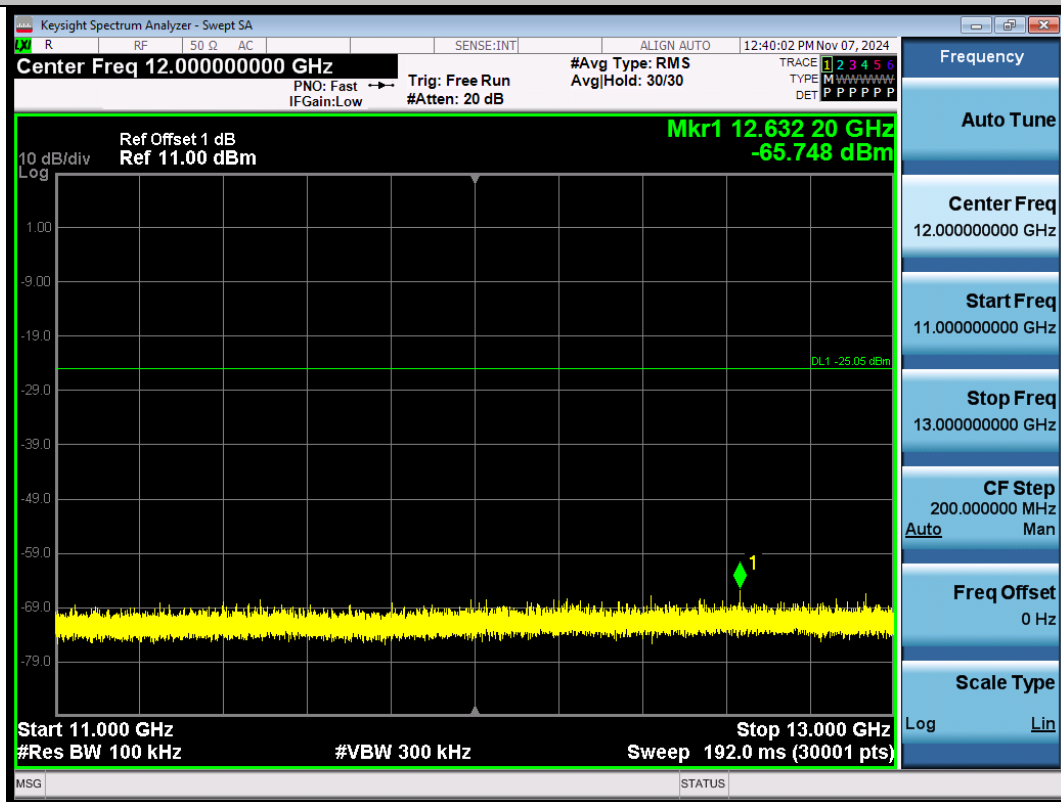
11B-2437-5000~7000-PASS



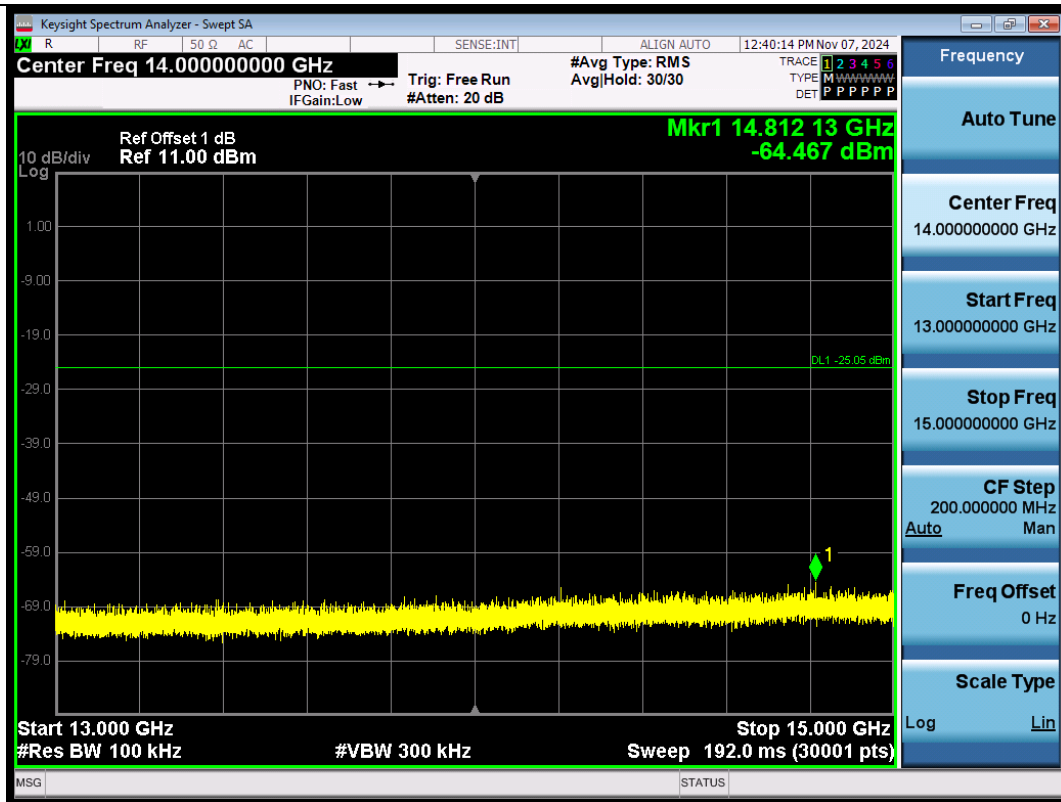
11B-2437-7000~9000-PASS



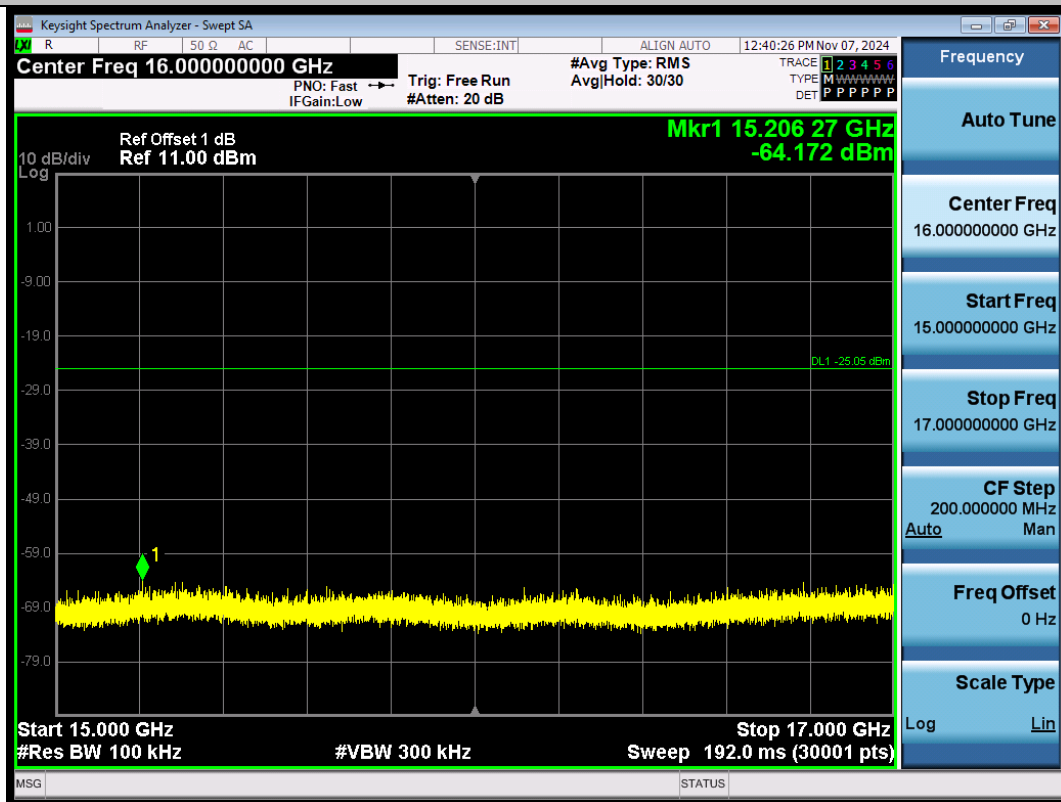
11B-2437-9000~11000-PASS



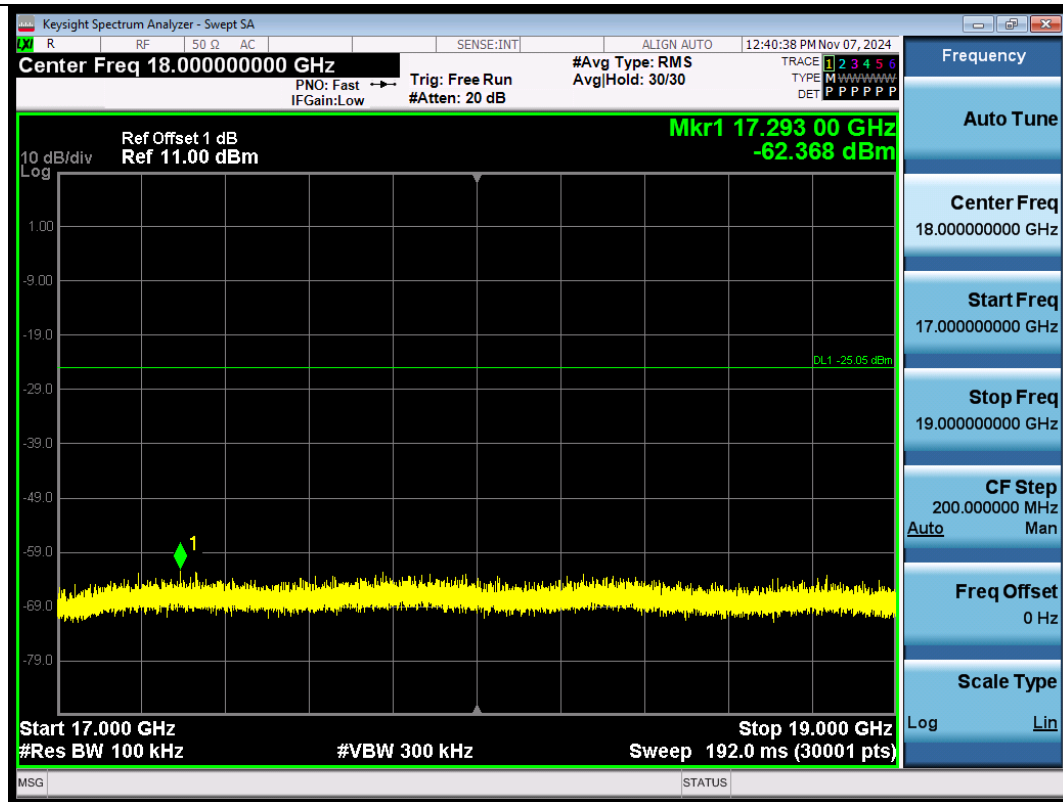
11B-2437-11000~13000-PASS



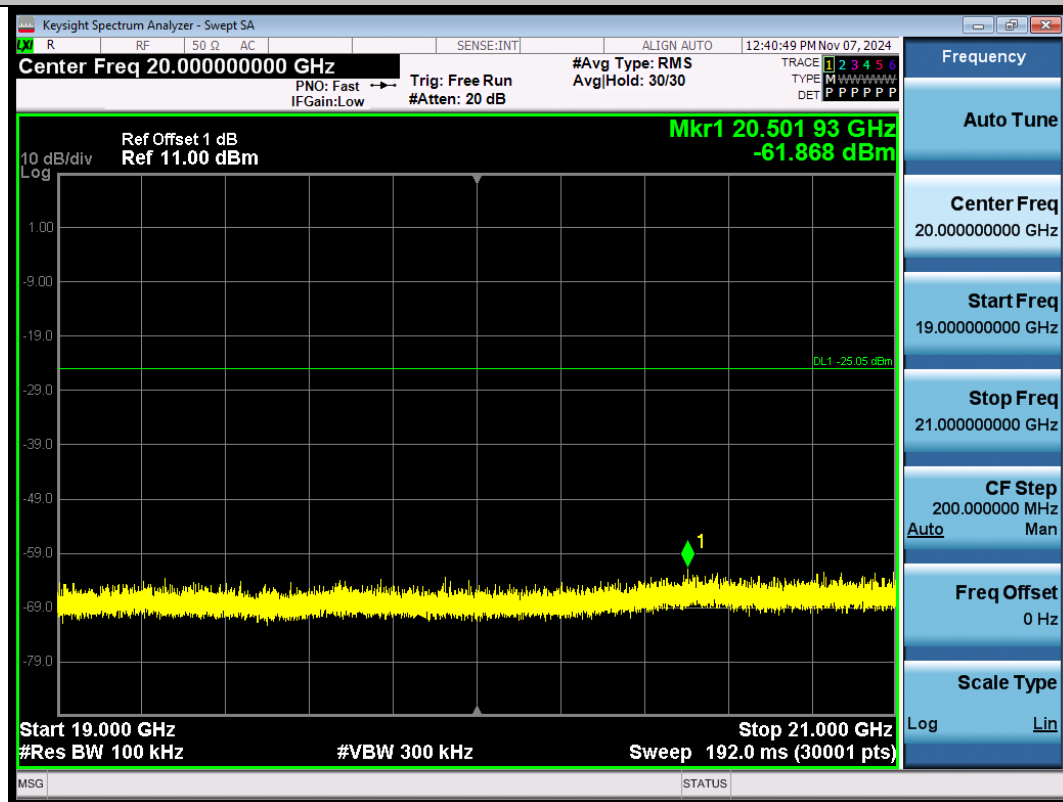
11B-2437-13000~15000-PASS



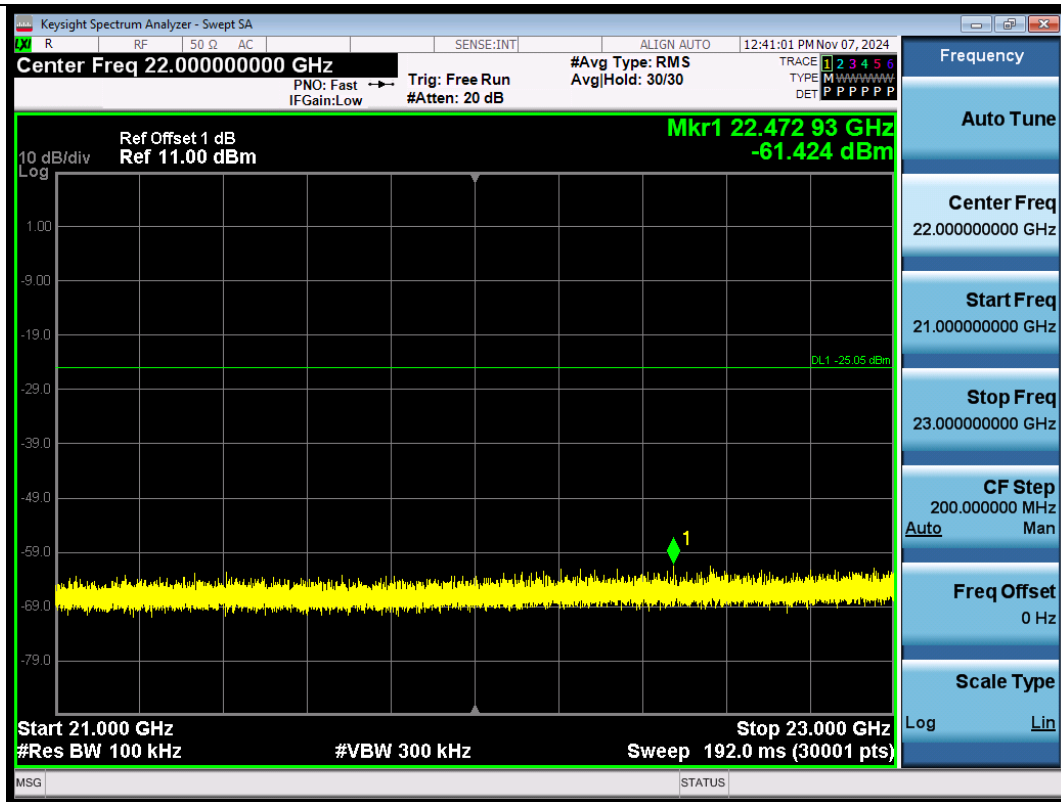
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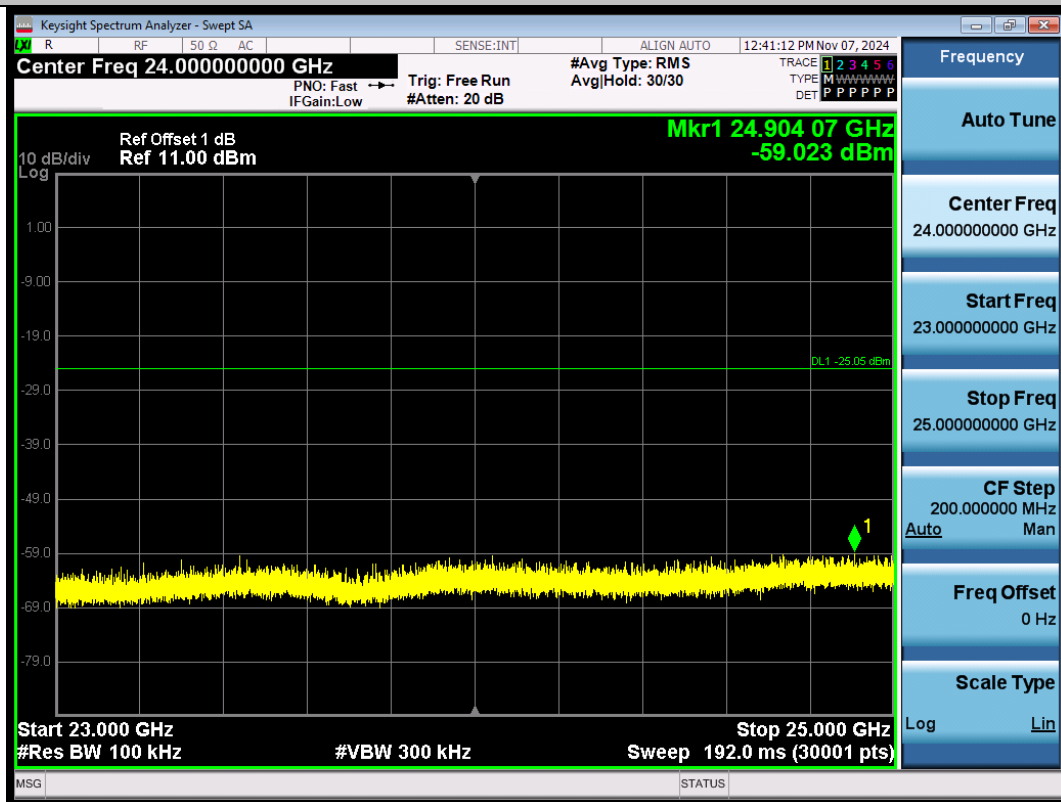
11B-2437-17000~19000-PASS



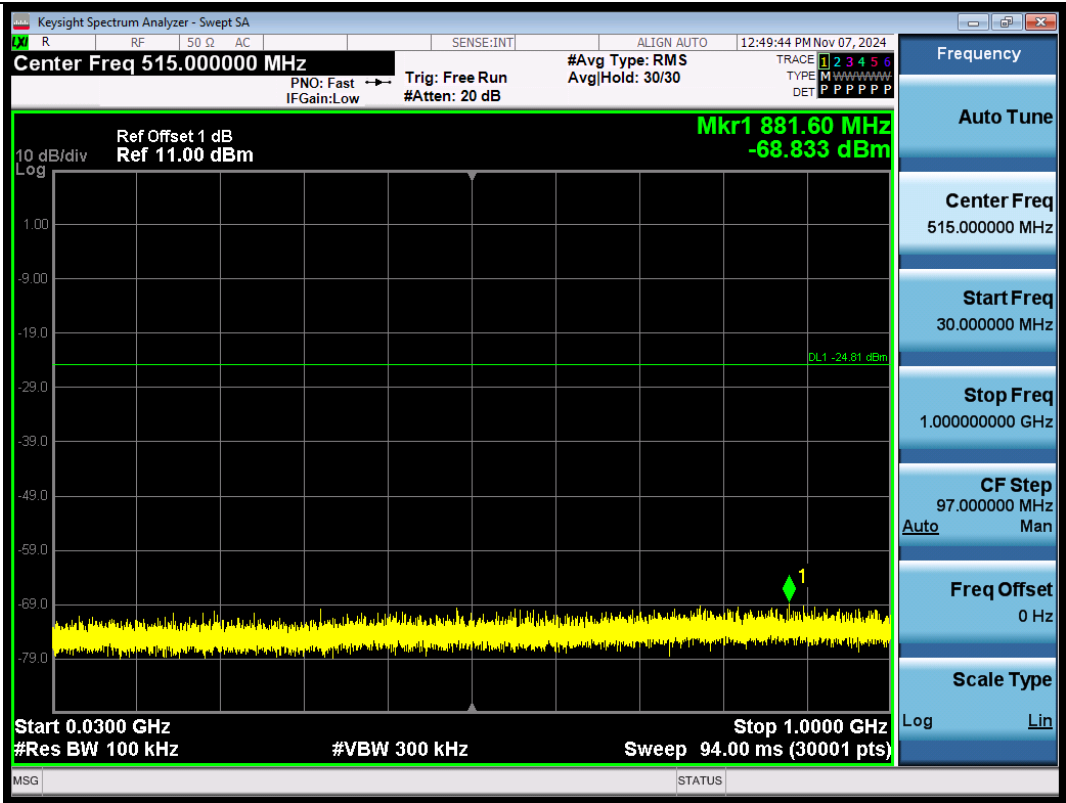
11B-2437-19000~21000-PASS



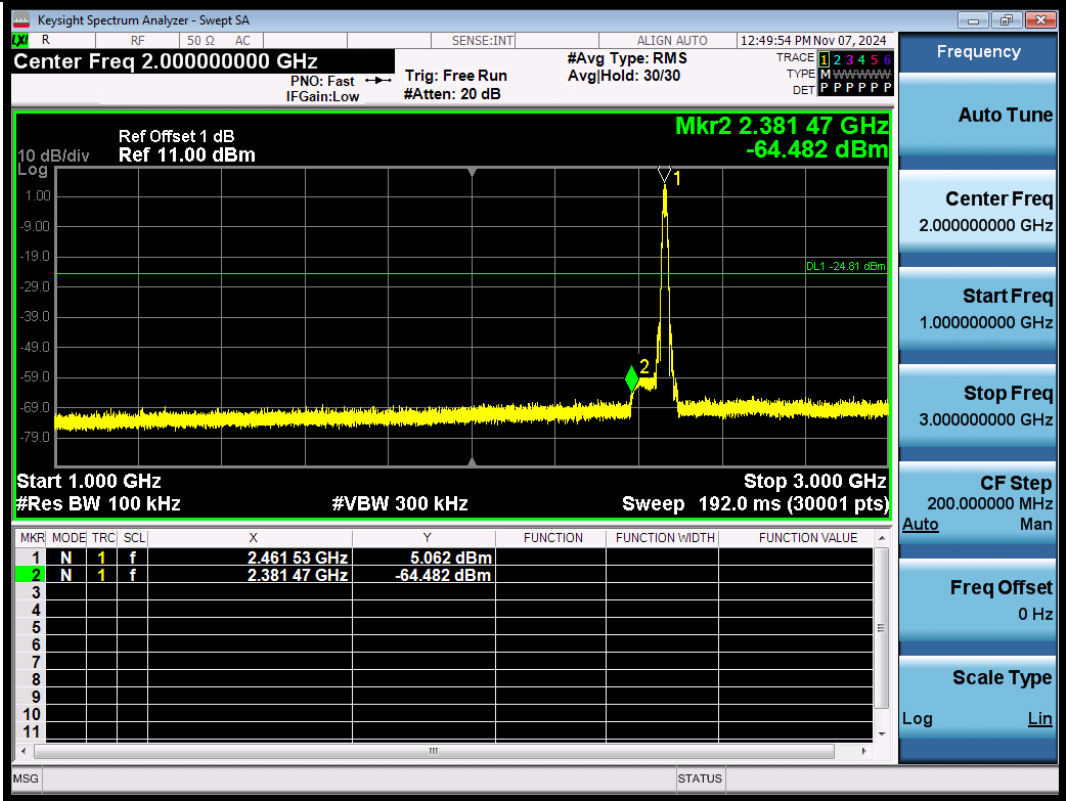
11B-2437-21000~23000-PASS



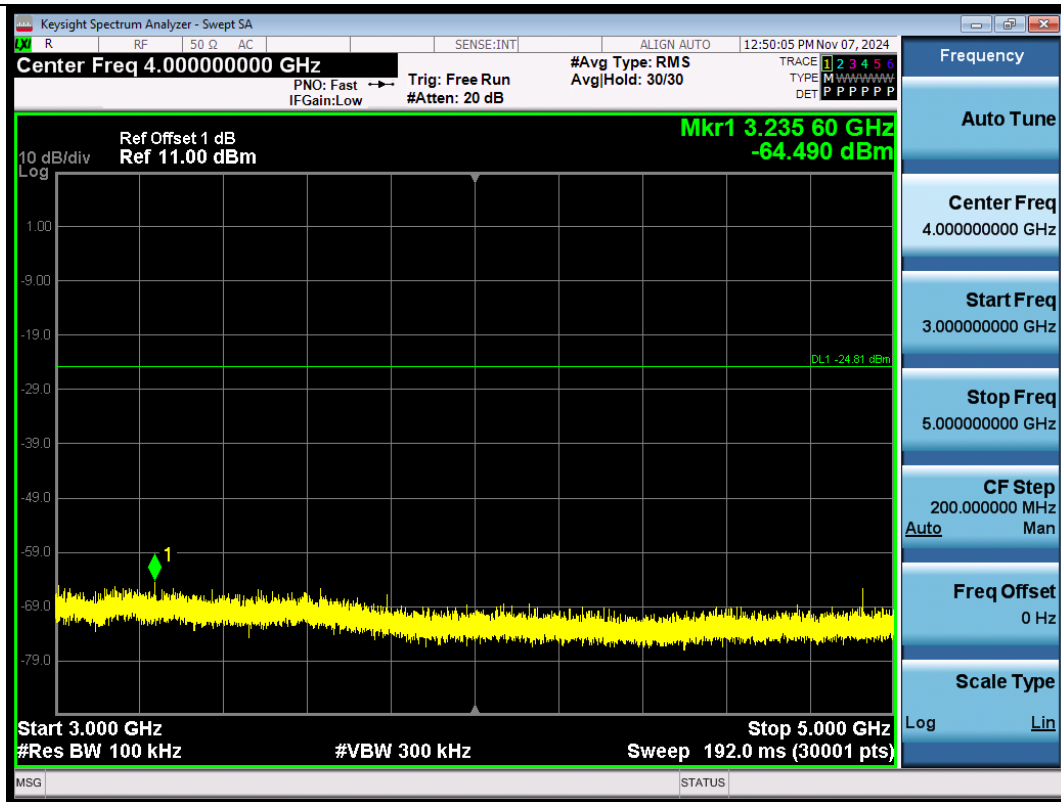
11B-2437-23000~25000-PASS



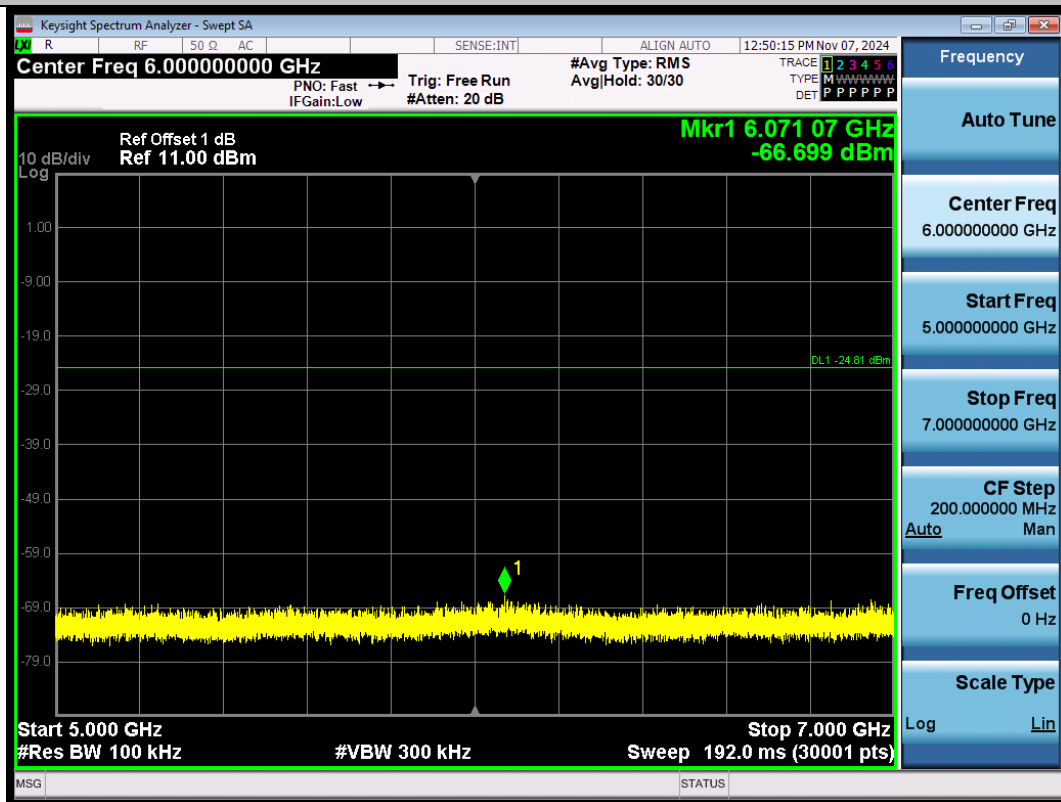
11B-2462-30~1000-PASS



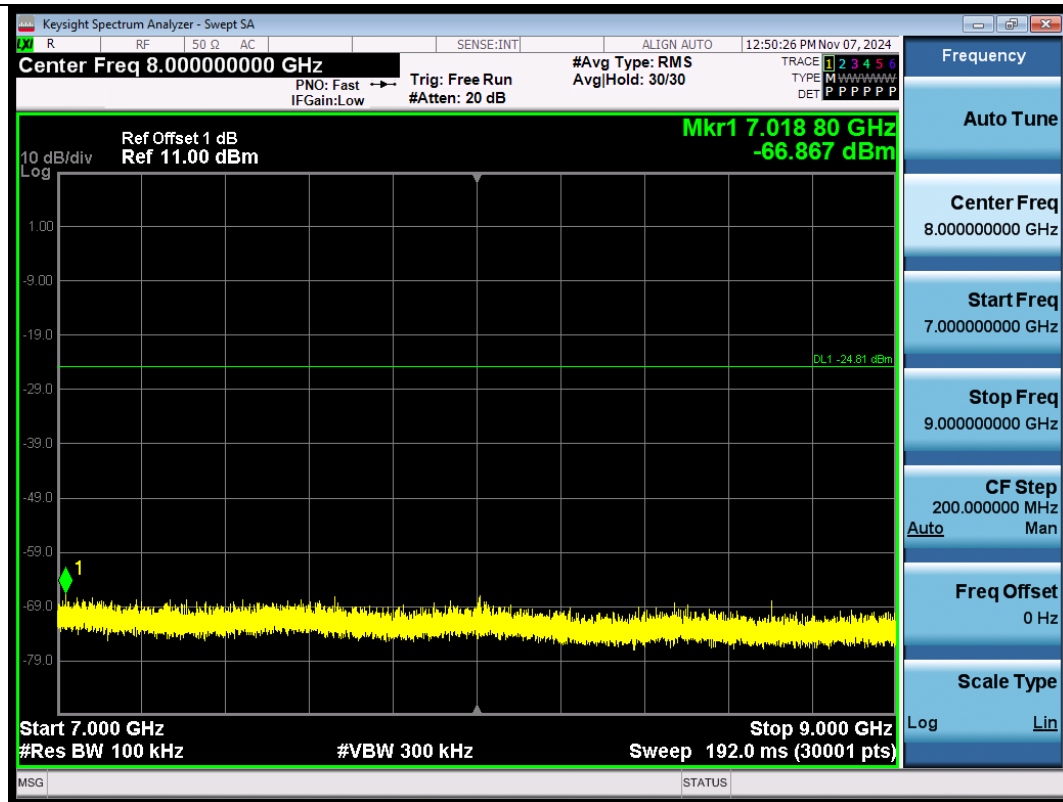
11B-2462-1000~3000-PASS



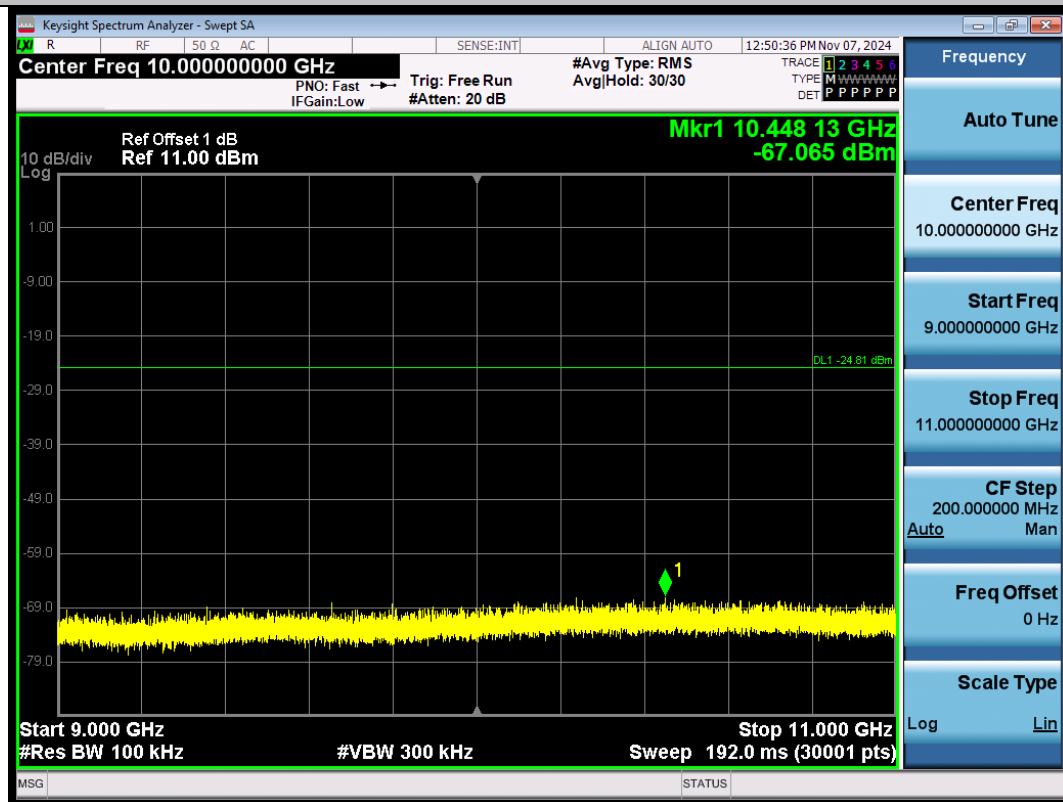
11B-2462-3000~5000-PASS



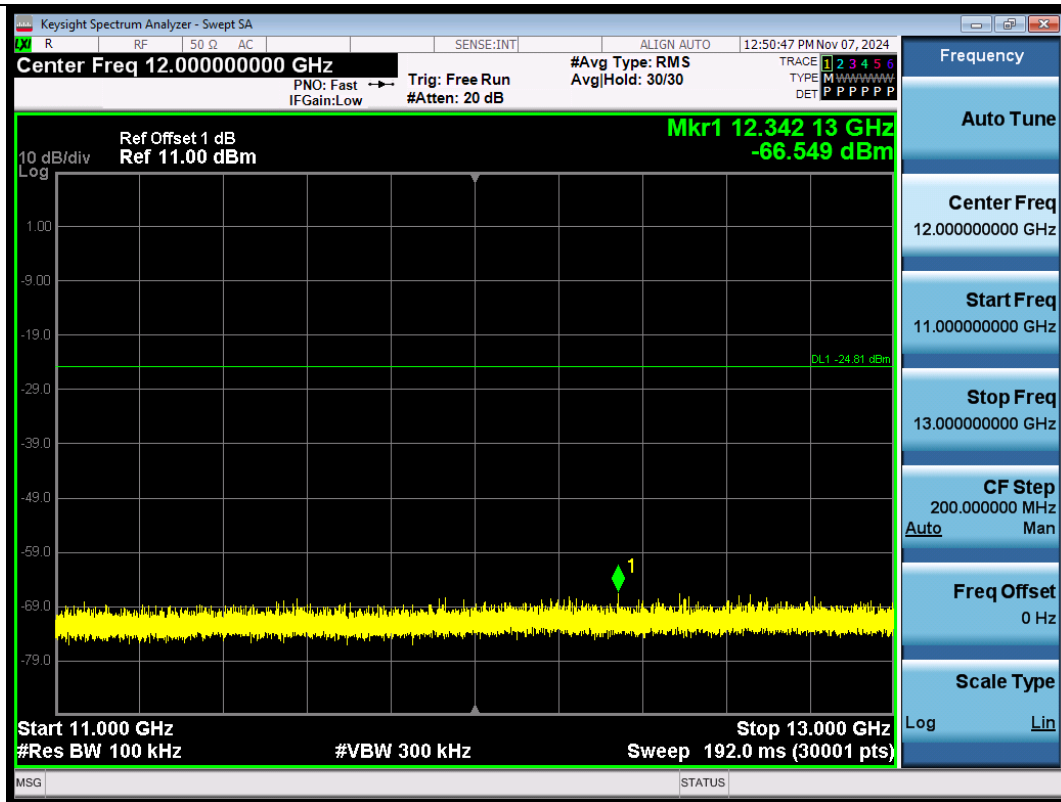
11B-2462-5000~7000-PASS



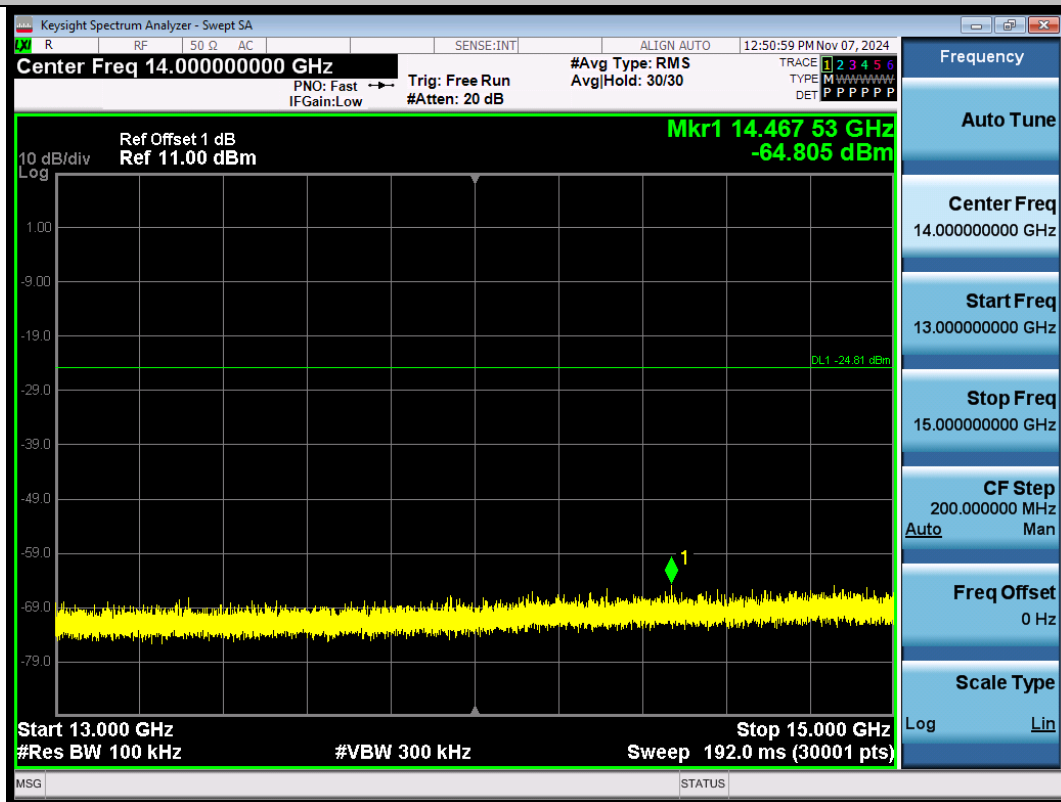
11B-2462-7000~9000-PASS



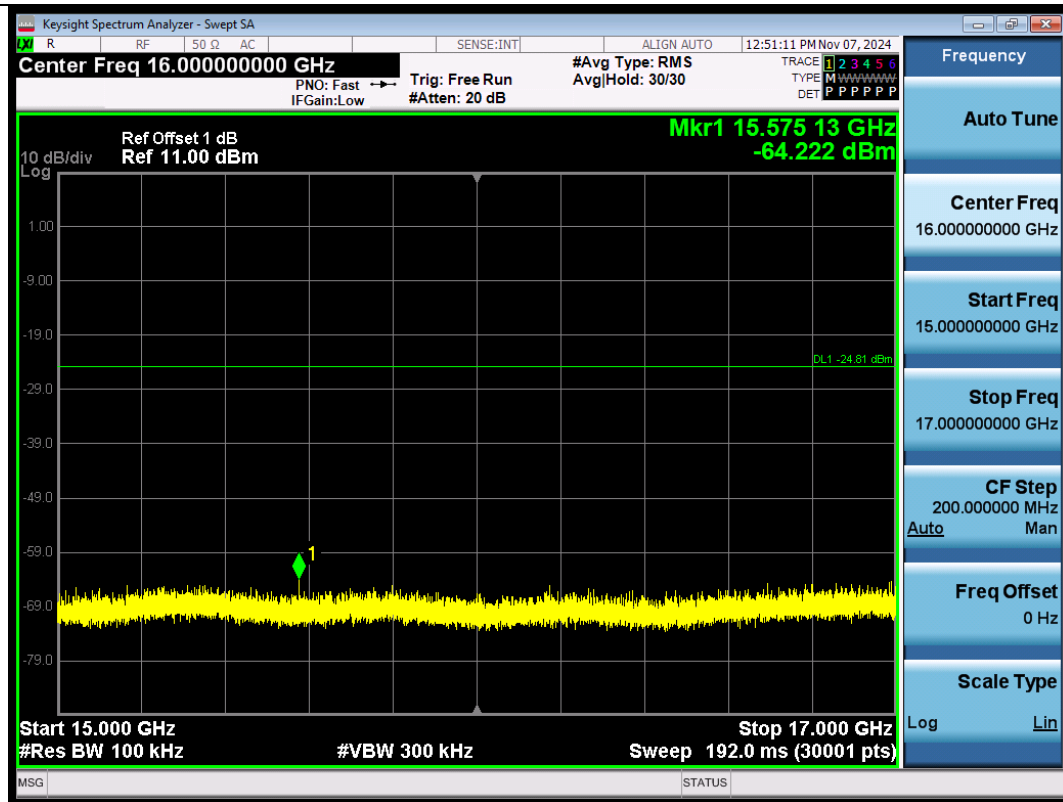
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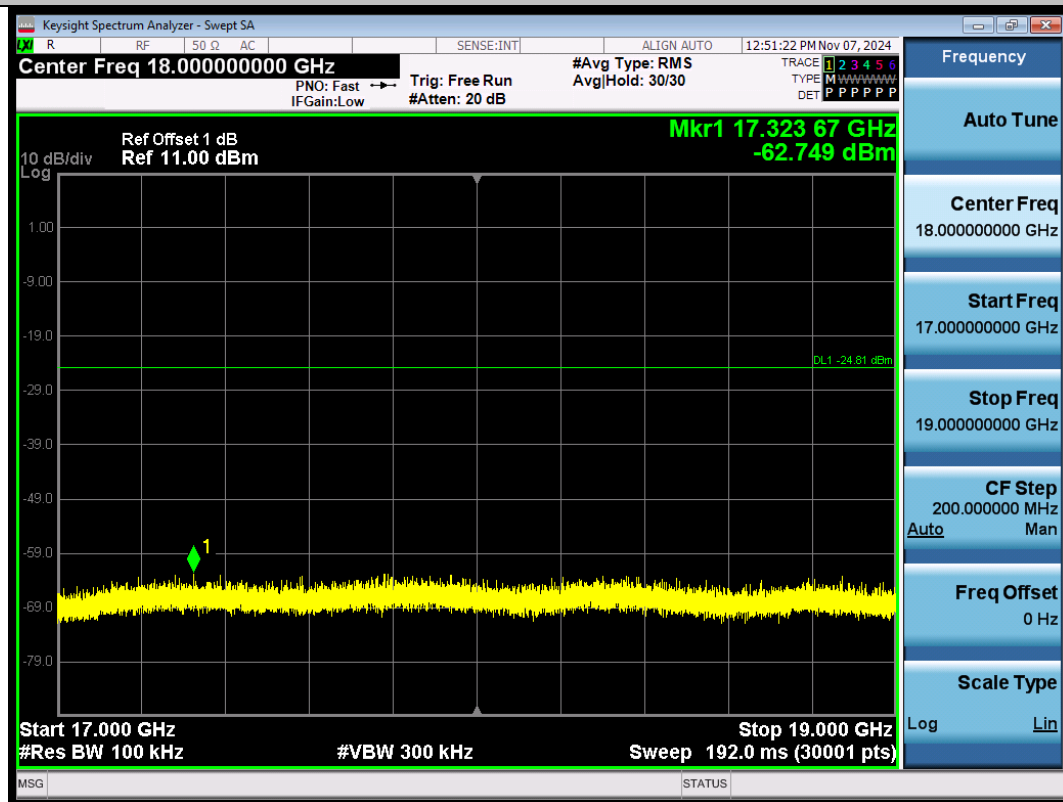
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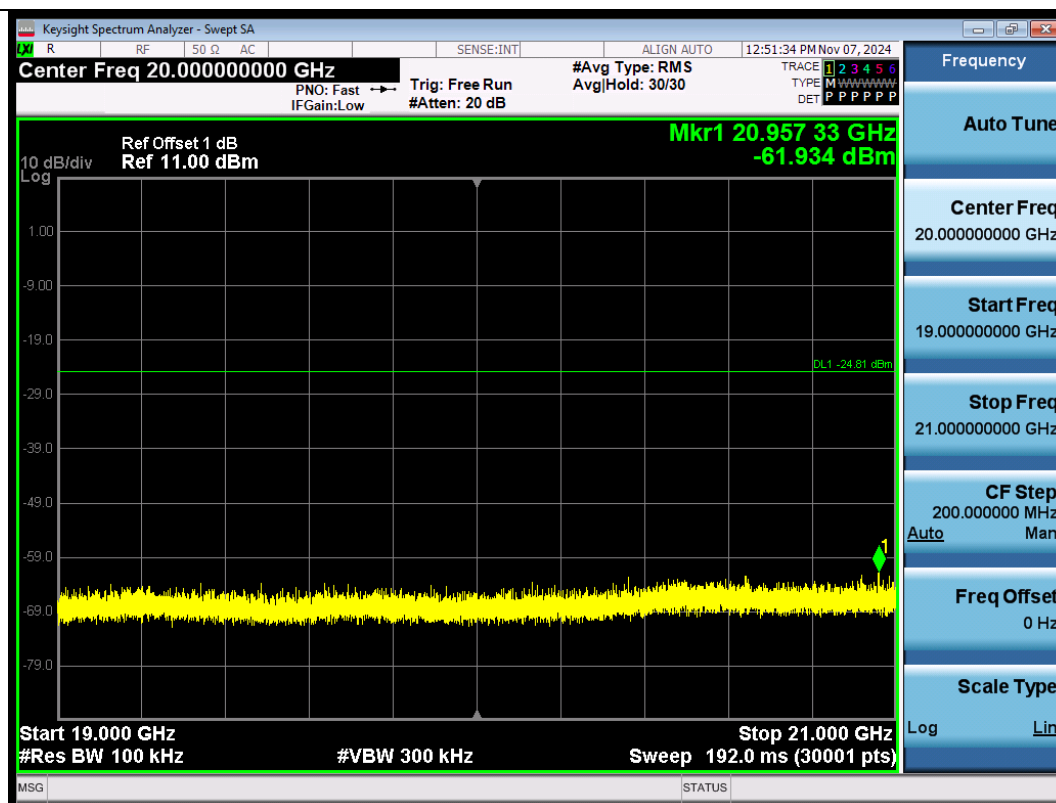
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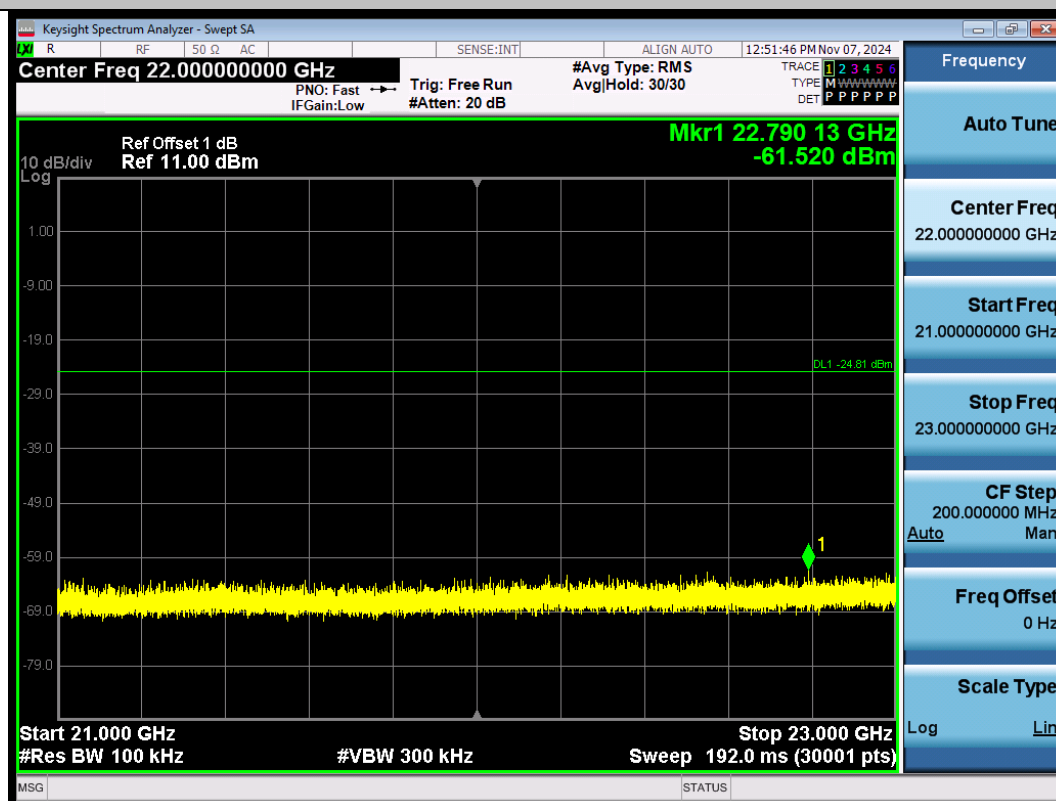
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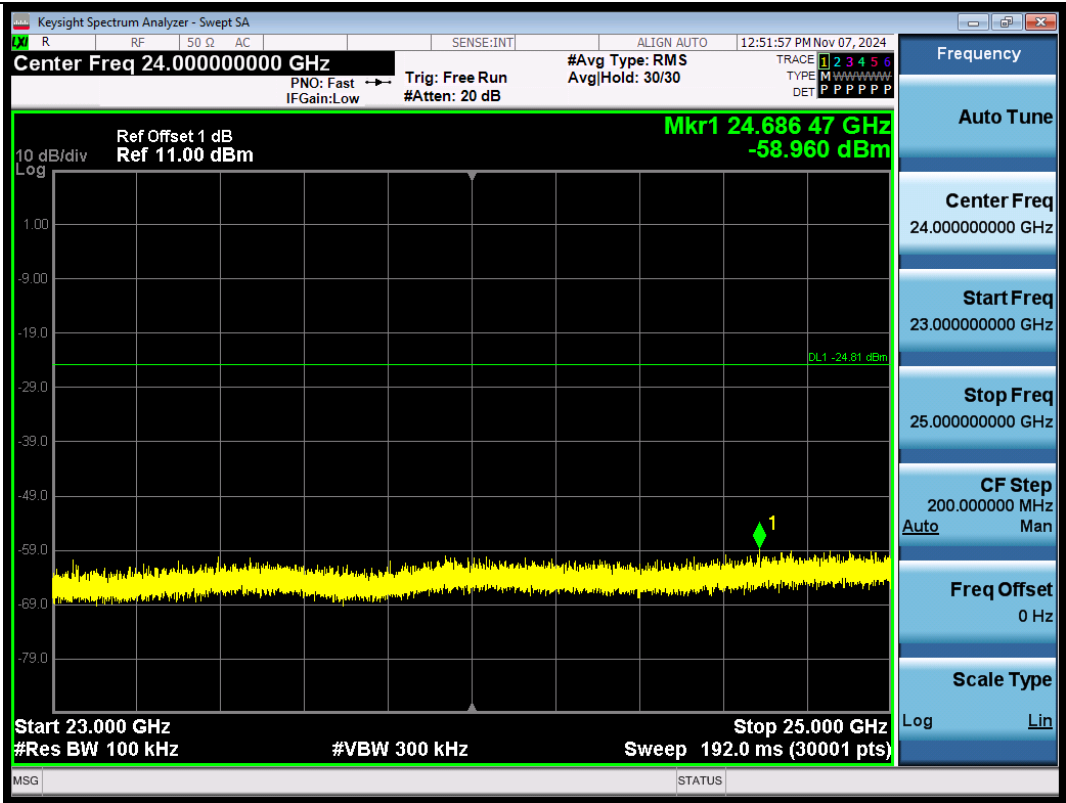
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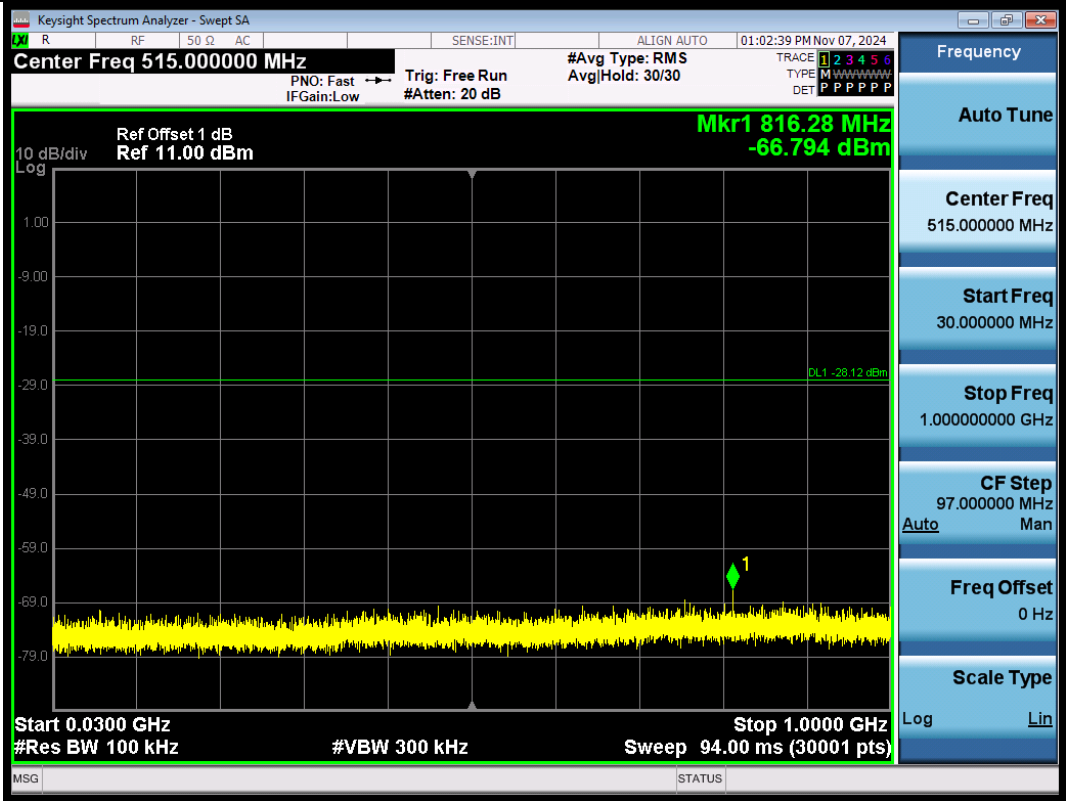
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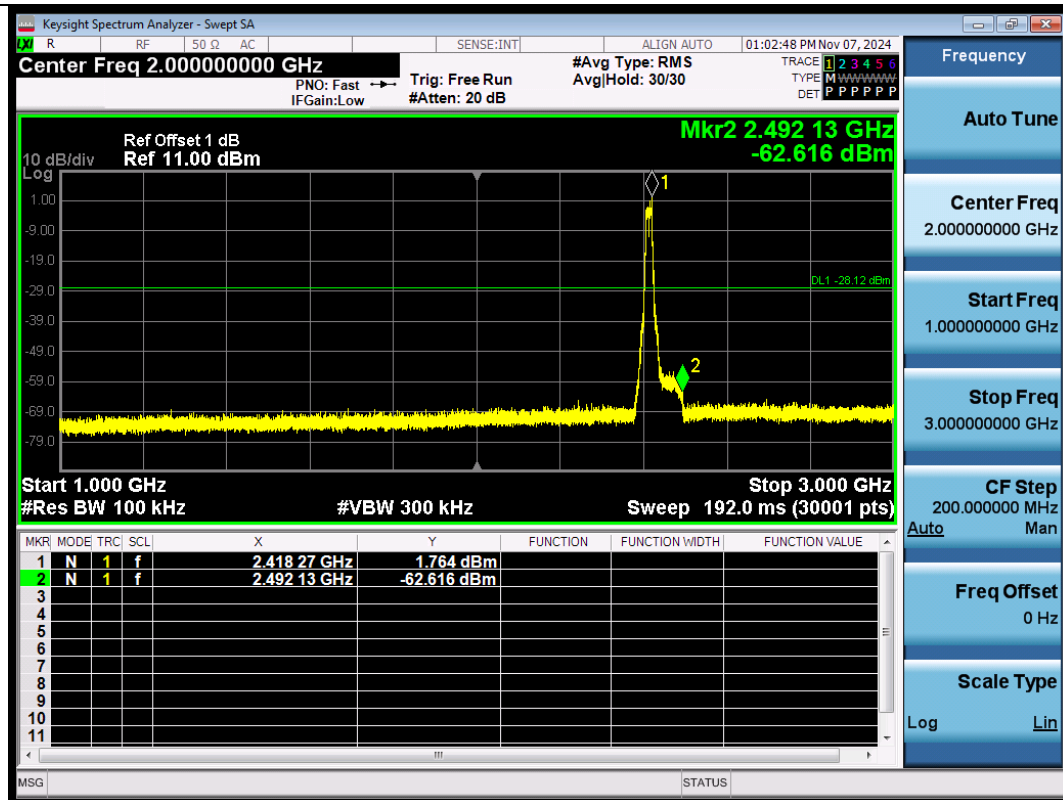
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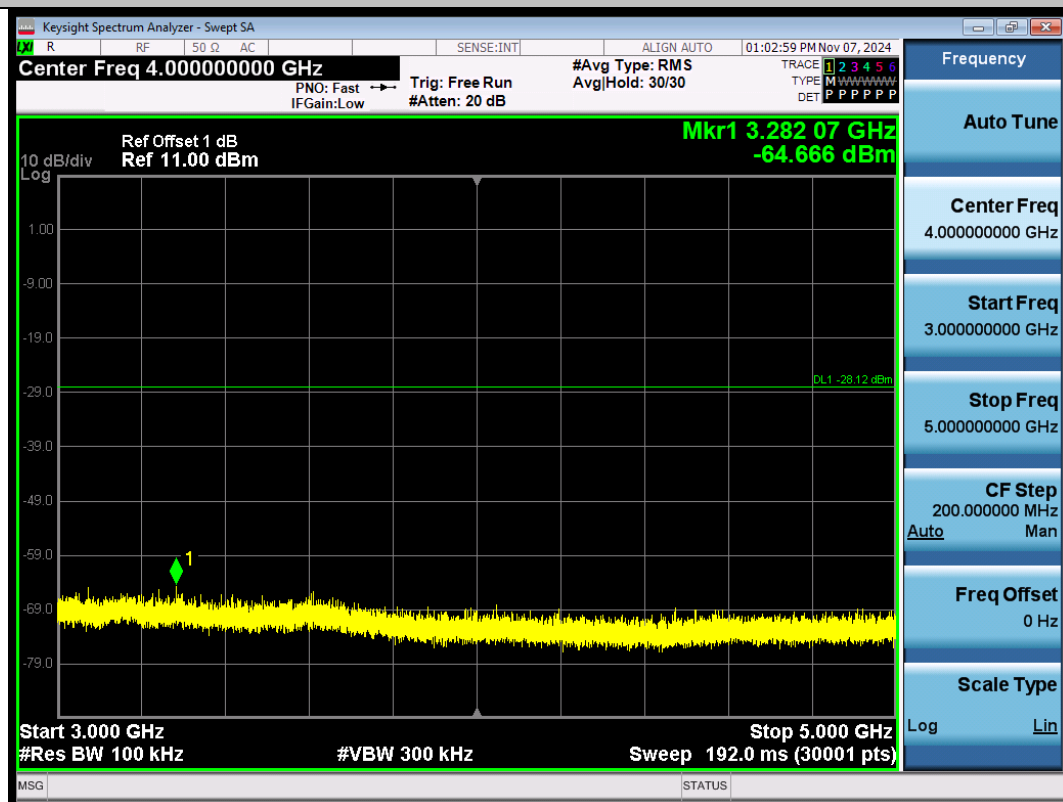
11B-2462-23000~25000-PASS



11G-2412-30~1000-PASS



11G-2412-1000~3000-PASS



11G-2412-3000~5000-PASS