



FCC / ISED & Test Report

For:
Philips Respironics

Model Number:
DSX510H11C, DSX510T11C, DSX520H11C, DSX520T11C, DSX420H11C, DSX420T11C,
DSX410H11C, DSX410T11C, VAX520H21C, VAX520T21C, VAX520T21C15, DSX520T11C15

Product Description:
CPAP machine with integral Cell modem and BT

Applied Rules and Standards:
47 CFR Parts 22, 24, and 27
RSS: 132 Issue 3, 133 Issue 6, 139 Issue 3

FCC ID: THO1141623

REPORT #: EMC_PHIL4-100-21001_FCC_22_24_27

DATE: 2021-09-13



A2LA Accredited

IC recognized #
3462B-1

CETECOM Inc.

411 Dixon Landing Road ♦ Milpitas, CA 95035 ♦ U.S.A.

Phone: + 1 (408) 586 6200 ♦ Fax: + 1 (408) 586 6299 ♦ E-mail: info@cetecom.com ♦ <http://www.cetecom.com>

CETECOM Inc. is a Delaware Corporation with Corporation number: 2905571

TABLE OF CONTENTS

1	ASSESSMENT	3
2	ADMINISTRATIVE DATA	5
2.1	IDENTIFICATION OF THE TESTING LABORATORY ISSUING THE EMC TEST REPORT	5
2.2	IDENTIFICATION OF THE CLIENT	5
2.3	IDENTIFICATION OF THE MANUFACTURER	5
3	EQUIPMENT UNDER TEST (EUT)	6
3.1	EUT SPECIFICATIONS	6
3.2	EUT SAMPLE DETAILS	7
3.3	ACCESSORY EQUIPMENT (AE) DETAILS	7
3.4	TEST SAMPLE CONFIGURATION	7
4	SUBJECT OF INVESTIGATION	8
4.1	DATES OF TESTING:	8
4.2	MEASUREMENT UNCERTAINTY	8
4.3	ENVIRONMENTAL CONDITIONS DURING TESTING:	8
5	MEASUREMENT PROCEDURES	9
5.1	RADIATED MEASUREMENT	9
5.2	SAMPLE CALCULATIONS FOR FIELD STRENGTH MEASUREMENTS	11
6	MEASUREMENT RESULTS SUMMARY	12
6.1	PART 22 / RSS-132	12
6.2	PART 24 / RSS-133	12
6.3	FCC 27 / RSS-139	13
7	TEST RESULT DATA	14
7.1	RADIATED SPURIOUS EMISSIONS	14
8	TEST SETUP PHOTOS	67
9	TEST EQUIPMENT AND ANCILLARIES USED FOR TESTING	67
10	REVISION HISTORY	68

1 Assessment

The following device as further described in section 3 of this report was evaluated against the applicable criteria specified in the Code of Federal Regulations Title 47 parts 22 and 24, and Industry Canada Standards RSS-GEN issue 3, RSS-132 issue 3, RSS-133 issue 6 and RSS-139 issue 3.

No deficiencies were ascertained.

Company Name	Product Description	Model #
Philips Respironics	CPAP machine with integral Cell modem and BT	DSX510H11C, DSX510T11C, DSX520H11C, DSX520T11C, DSX420H11C, DSX420T11C, DSX410H11C, DSX410T11C, VAX520H21C, VAX520T21C, VAX520T21C15, DSX520T11C15

Responsible for Testing Laboratory:

2021-09-13	Compliance	Kevin Wang (EMC Lab Manager)	
Date	Section	Name	Signature

Responsible for the Report:

2021-09-13	Compliance	Cheng Song (EMC Engineer)	
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section3.

CETECOM Inc. USA does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of CETECOM Inc. USA.

2 Administrative Data

2.1 Identification of the Testing Laboratory Issuing the EMC Test Report

Company Name:	CETECOM Inc.
Department:	Compliance
Street Address:	411 Dixon Landing Road
City/Zip Code	Milpitas, CA 95035
Country	USA
Telephone:	+1 (408) 586 6200
Fax:	+1 (408) 586 6299
EMC Lab Manager:	Kevin Wang
Responsible Project Leader:	Cathy Palacios

2.2 Identification of the Client

Client's Name:	Philips Respironics
Street Address:	6501 Living Place
City/Zip Code	Pittsburgh, PA 15206
Country	USA

2.3 Identification of the Manufacturer

Manufacturer's Name:	Same as Client
Manufacturers Address:	
City/Zip Code	
Country	

3 Equipment Under Test (EUT)

3.1 EUT Specifications

Model No	DSX510H11C, DSX510T11C, DSX520H11C, DSX520T11C, DSX420H11C, DSX420T11C, DSX410H11C, DSX410T11C, VAX520H21C, VAX520T21C, VAX520T21C15, DSX520T11C15
HW Version	10
SW Version	V1.0.3.3690
FCC-ID	THO1141623
PMN:	DreamStation 2 Advanced Auto CPAP
Product Description	CPAP machine with integral Cell modem and BT
Radios included in the device	❖ <u>Cellular:</u> • Model Name: u-blox • Model Number: SARA-R410M-02B • FCC ID: XPY2AGQN4NNN • IC ID: 8585A-2AGQN4NNN • Frequency of Operation: LTE 2 / LTE 4 / LTE 5 / LTE 12 / LTE 13 ❖ <u>Bluetooth:</u> • Bluetooth 5.0 Low Energy: Dialog DA14585 • Nominal band: 2400 MHz – 2483.5 MHz; • Center to center: 2402 MHz (ch 0) – 2480 MHz (ch 39), 40 channels
Antenna Type:	❖ <u>Main Antenna:</u> • Type: Flexible Polymer Antenna • Location: Internal • Peak Gain: 4 dBi
Power Supply/ Rated Operating Voltage Range	10.8 V (min) / 13.2 V (max) / 12 V (nom)
Operating Temperature Range	Tmin: 5 °C / Tmax: 35 °C / Tnom: 21 °C
Sample Revision	☐ Prototype ☒ Production ☐ Pre-Production

3.2 EUT Sample details

EUT #	Serial Number	HW Version	SW Version	Comments
1	D1PP1021492BAD	10	V1.0.3.3690	

3.3 Accessory Equipment (AE) details

AE #	Type	Model	Manufacturer	Serial Number
1	AC / DC Adapter	MEA-080A12C	Delta Electronics, Inc.	70TW12H06ET

3.4 Test Sample Configuration

Set-up #	EUT / AE used for set-up	Comments
1	EUT#1+AE#1	

4 Subject of Investigation

The objective of the measurements done by CETECOM Inc. was to evaluate the compliance of the EUT against the relevant requirements specified in the Code of Federal Regulations Title 47 parts 22, 24, 27 and ISSED Standards RSS-132 issue 3, RSS-133 issue 6, and RSS-139 issue 3.

4.1 Dates of Testing:

08/12/2021-08/18/2021

4.2 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus, with 95% confidence interval (in dB delta to result), based on a coverage factor k=1.

Radiated measurement

9 kHz to 30MHz	±2.5 dB (Magnetic Loop Antenna)
30 MHz to 1000 MHz	±2.0 dB (Biconilog Antenna)
1 GHz to 40 GHz	±2.3 dB (Horn Antenna)

Conducted measurement

150 kHz to 30 MHz	±0.7 dB (LISN)
-------------------	----------------

RF conducted measurement	±0.5 dB
--------------------------	---------

4.3 Environmental Conditions during Testing:

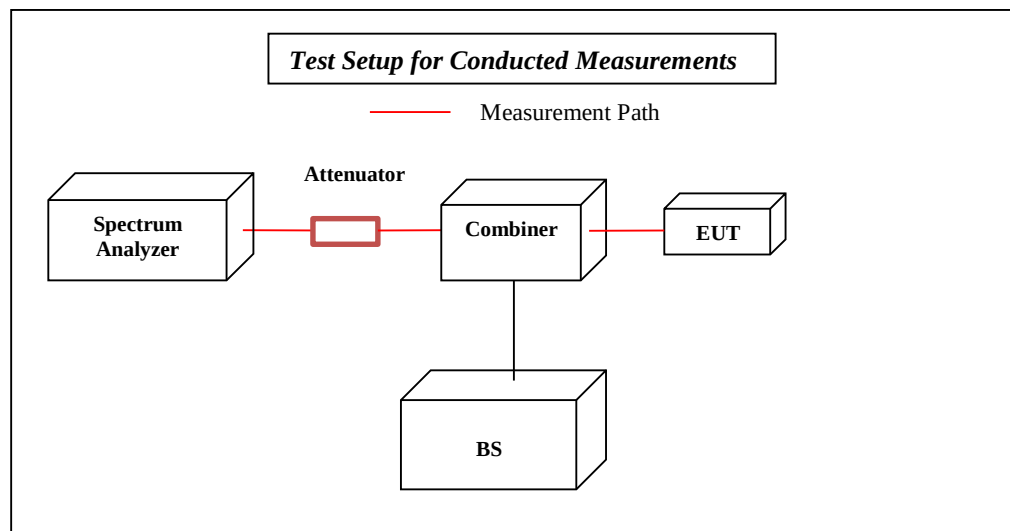
The following environmental conditions were maintained during the course of testing:

- Ambient Temperature: 20-25°C
- Relative humidity: 40-60%

Deviating test conditions are indicated at individual test description where applicable.

5 Measurement Procedures

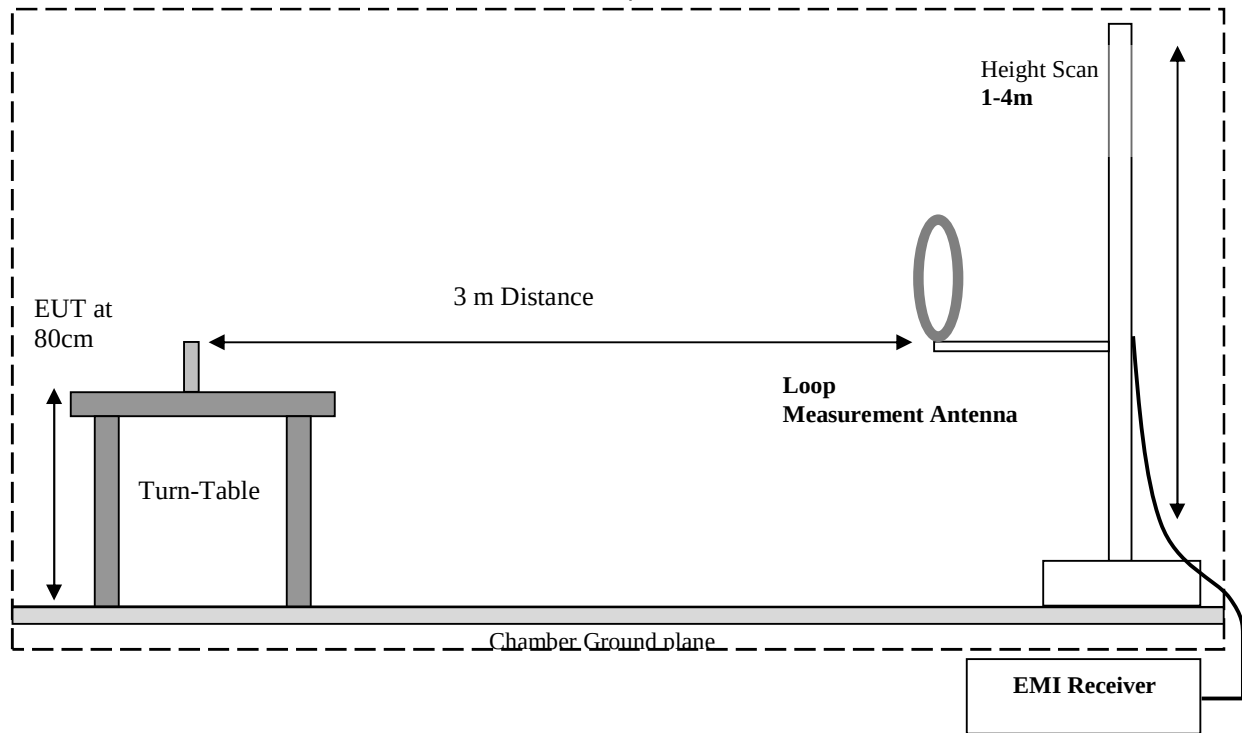
Testing is performed according to the guidelines provided in FCC publication (KDB) 971168 D01 v03r01 – “Measurement Guidance for Certification of Licensed Digital Transmitters” and according to relevant parts of ANSI/TIA-603-D-2010 as detailed below.



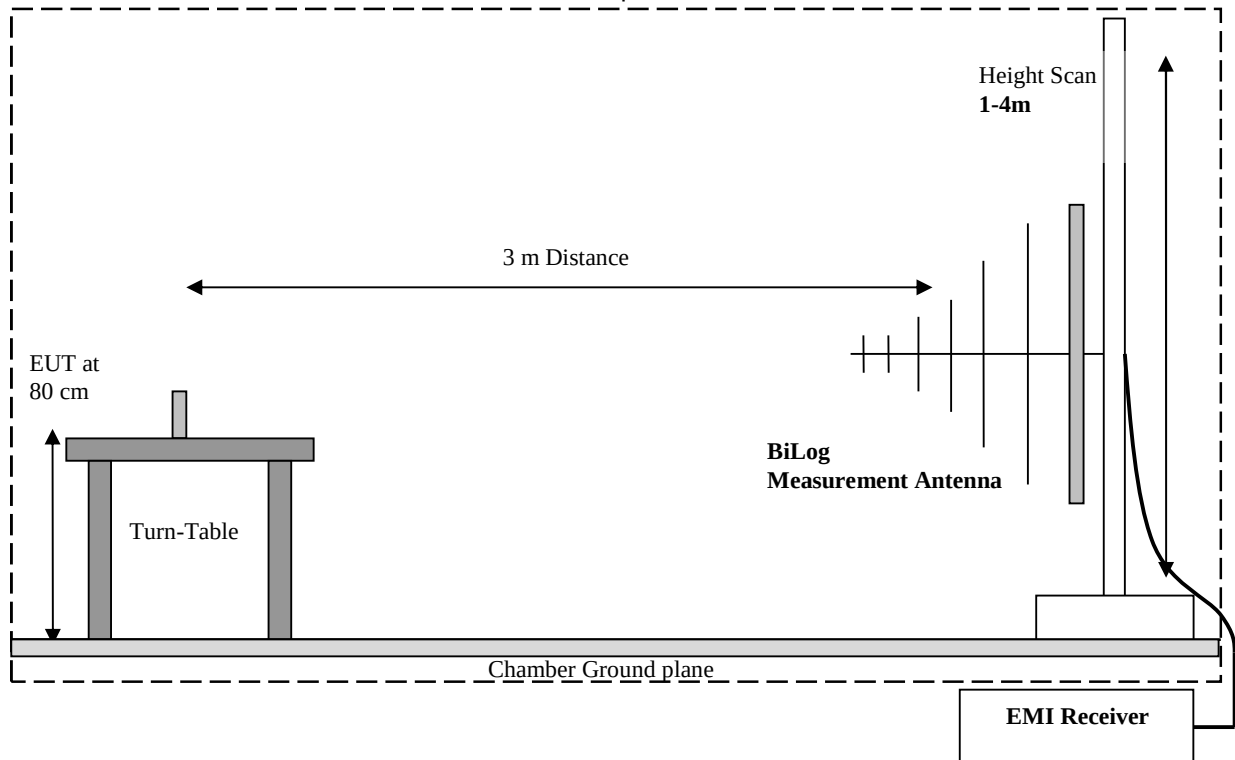
5.1 Radiated Measurement

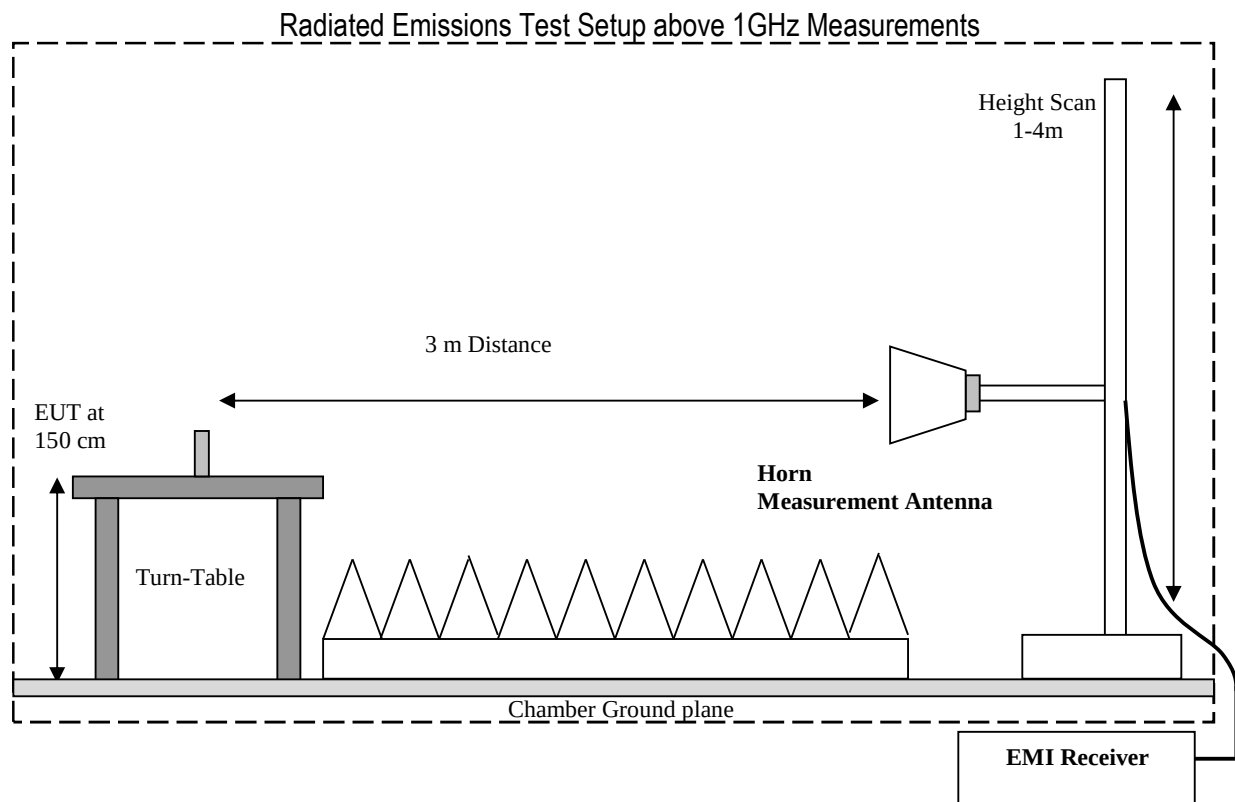
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to cover the 3 orthogonal axis of the EUT. A max peak detector is utilized during the exploratory measurement. The Test-SW creates an overall maximum trace for all 12 sweeps and saves the settings for each point of this trace. The maximum trace is part of the test report.
- The 10 highest emissions are selected with an automatic algorithm of EMC32 searching for peaks in the noise floor and ensuring that broadband signals are not selected multiple times.
- The maxima are then put through the final measurement and again maximized in a 90deg range of the turntable, fine search in frequency domain and height scan between 1m and 4m.
- The above procedure is repeated for all possible ways of power supply to EUT and for all supported modulations.
- In case there are no emissions above noise floor level only the maximum trace is reported as described above.
- The results are split up into up to 4 frequency ranges due to antenna bandwidth restrictions. A magnetic loop is used from 9 kHz to 30 MHz, a Biconilog antenna is used from 30 MHz to 1 GHz, and two different horn antennas are used to cover frequencies up to 40 GHz.

Radiated Emissions Test Setup below 30MHz Measurements



Radiated Emissions Test Setup 30MHz-1GHz Measurements





5.2 Sample Calculations for Field Strength Measurements

Field Strength is calculated from the Spectrum Analyzer/ Receiver readings, taking into account the following parameters:

- Measured reading in dB μ V
- Cable Loss between the receiving antenna and SA in dB and
- Antenna Factor in dB/m

All radiated measurement plots in this report are taken from a test SW that calculates the Field Strength based on the following equation:

$$FS \text{ (dB}\mu\text{V/m)} = \text{Measured Value on SA (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$$

Example:

Frequency (MHz)	Measured SA (dB μ V)	Cable Loss (dB)	Antenna Factor Correction (dB)	Field Strength Result (dB μ V/m)
1000	80.5	3.5	14	98.0

6 Measurement Results Summary

6.1 Part 22 / RSS-132

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §22.913 (a)	RF Output Power	Nominal	-	☐	☐	☐	■	Note 3
§2.1055; §22.355	Frequency Tolerance	Extreme Temperature and Voltage	-	☐	☐	☐	■	Note 3
§2.1049; §22.917	Occupied Bandwidth	Nominal	-	☐	☐	☐	■	Note 3
§2.1051; §22.917	Band Edge Compliance	Nominal	-	☐	☐	☐	■	Note 3
§2.1051; §22.917	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	■	Note 2
§2.1053; §22.917	Radiated Spurious Emissions	Nominal	LTE 5	■	☐	☐	☐	Complies

Note 1: NA= Not Applicable; NP= Not Performed.

Note 2: Spurious emissions were evaluated with radiated measurement.

Note 3: Leveraged from u-blox SARA-R410M-02B module certification report under FCC ID: XPY2AGQN4NNN

6.2 Part 24 / RSS-133

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §24.232 (a)	RF Output Power	Nominal	-	☐	☐	☐	■	Note 3
§2.1055; §24.235	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	■	Note 3
§2.1049; §24.238	Occupied Bandwidth	Nominal	-	☐	☐	☐	■	Note 3
§2.1051; §24.238	Band Edge Compliance	Nominal	-	☐	☐	☐	■	Note 3
§2.1051; §24.238	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	■	Note 2
§2.1053; §24.238	Radiated Spurious Emissions	Nominal	LTE 2	■	☐	☐	☐	Complies

Note 1: NA= Not Applicable; NP= Not Performed.

Note 2: Spurious emissions were evaluated with radiated measurement.

Note 3: Leveraged from u-blox SARA-R410M-02B module certification report under FCC ID: XPY2AGQN4NNN

6.3 FCC 27 / RSS-139

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §27.50	RF Output Power	Nominal	-	☐	☐	☐	■	Note 3
§2.1055; §27.54	Frequency Stability	Extreme Temperature and Voltage	-	☐	☐	☐	■	Note 3
§2.1049; §27.53	Occupied Bandwidth	Nominal	-	☐	☐	☐	■	Note 3
§2.1051; §27.53	Band Edge Compliance	Nominal	-	☐	☐	☐	■	Note 3
§2.1051; §27.53	Conducted Spurious Emissions	Nominal	-	☐	☐	☐	■	Note 2
§2.1053; §27.53	Radiated Spurious Emissions	Nominal	LTE 4 / LTE 12 / LTE 13	■	☐	☐	☐	Complies

Note 1: NA= Not Applicable; NP= Not Performed.

Note 2: Spurious emissions were evaluated with radiated measurement.

Note 3: Leveraged from u-blox SARA-R410M-02B module certification report under FCC ID: XPY2AGQN4NNN

7 Test Result Data

7.1 Radiated Spurious Emissions

7.1.1 Measurement utilizing KDB 971168 D01 Power Meas License Digital Systems v03r01, and according to ANSI/TIA-603-D-2010

Spectrum Analyzer Settings for FCC 22

Frequency Range	30MHz – 1 GHz	1 – 1.58 GHz	1.58 – 9 GHz
Resolution Bandwidth	100 kHz	1 MHz	1 MHz
Video Bandwidth	100 kHz	1 MHz	1 MHz
Detector	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto

Spectrum Analyzer Settings for FCC 24

Frequency Range	30MHz – 1 GHz	1 – 2.7 GHz	2.7 – 18 GHz	18 – 19.1 GHz
Resolution Bandwidth	100 kHz	1 MHz	1 MHz	1 MHz
Video Bandwidth	100 kHz	1 MHz	1 MHz	1 MHz
Detector	Peak	Peak	Peak	Peak
Trace Mode	Max Hold	Max Hold	Max Hold	Max Hold
Sweep Time	Auto	Auto	Auto	Auto

7.1.2 Limits:

7.1.2.1 FCC Part 22.917 (a); FCC Part 24.238 (a); FCC Part 27.53 (h)

Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

7.1.2.2 RSS-132 Part 5.5; RSS-133 Part 6.5; RSS-139 Part 6.6 Transmitter Unwanted Emissions

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

i. In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

ii. After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

Note: The limit calculation result is a constant of -13 dBm.

7.1.3 Test conditions and setup:

Ambient Temperature (C)	EUT Set-Up #	EUT operating mode	Power Input
22	1	LTE 2 / LTE 4 / LTE 5 / LTE 12 / LTE 13 simultaneous transmission with BTLE	120 VAC

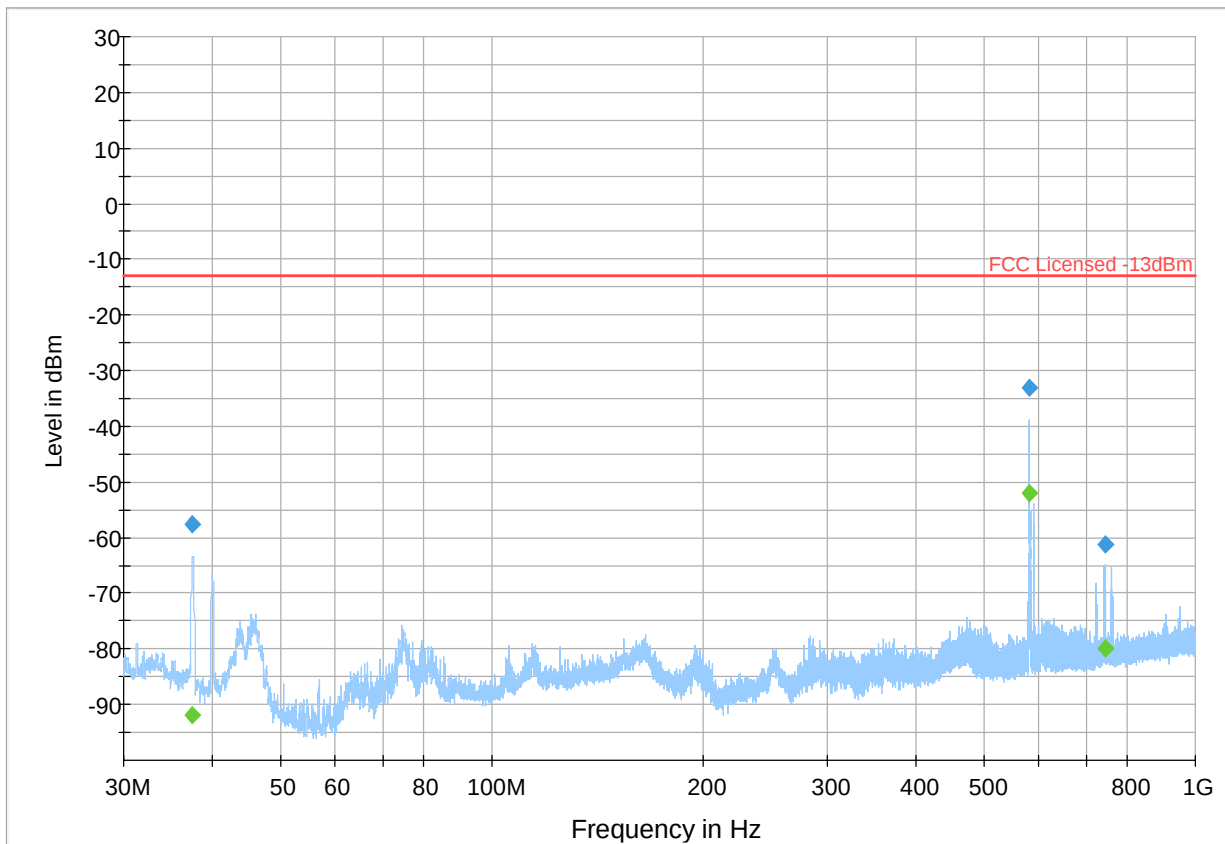
7.1.4 Measurement result:

Plot #	Channel	EUT operating mode	Scan Frequency	Limit (dBm)	Result
1-3	Low	LTE 2 + BTLE	30 MHz – 18 GHz	-13	Pass
4-8	Mid	LTE 2 + BTLE	9 kHz – 22 GHz	-13	Pass
9-11	High	LTE 2 + BTLE	30 MHz – 18 GHz	-13	Pass
12-14	Low	LTE 4 + BTLE	30 MHz – 18 GHz	-13	Pass
15-18	Mid	LTE 4 + BTLE	9 kHz – 18 GHz	-13	Pass
19-21	High	LTE 4 + BTLE	30 MHz – 18 GHz	-13	Pass
22-24	Low	LTE 5 +BTLE	30 MHz – 9 GHz	-13	Pass
25-28	Mid	LTE 5 +BTLE	9 kHz – 9 GHz	-13	Pass
29-31	High	LTE 5 +BTLE	30 MHz – 9 GHz	-13	Pass
32-34	Low	LTE 12 +BTLE	30 MHz – 18 GHz	-13	Pass
35-38	Mid	LTE 12 +BTLE	9 kHz – 18 GHz	-13	Pass
39-41	High	LTE 12 +BTLE	30 MHz – 18 GHz	-13	Pass
42-44	Low	LTE 13 +BTLE	30 MHz – 18 GHz	-13	Pass
45-48	Mid	LTE 13 +BTLE	9 kHz – 18 GHz	-13	Pass
49-51	High	LTE 13 +BTLE	30 MHz – 18 GHz	-13	Pass

7.1.5 Measurement Plots:

Plot # 1

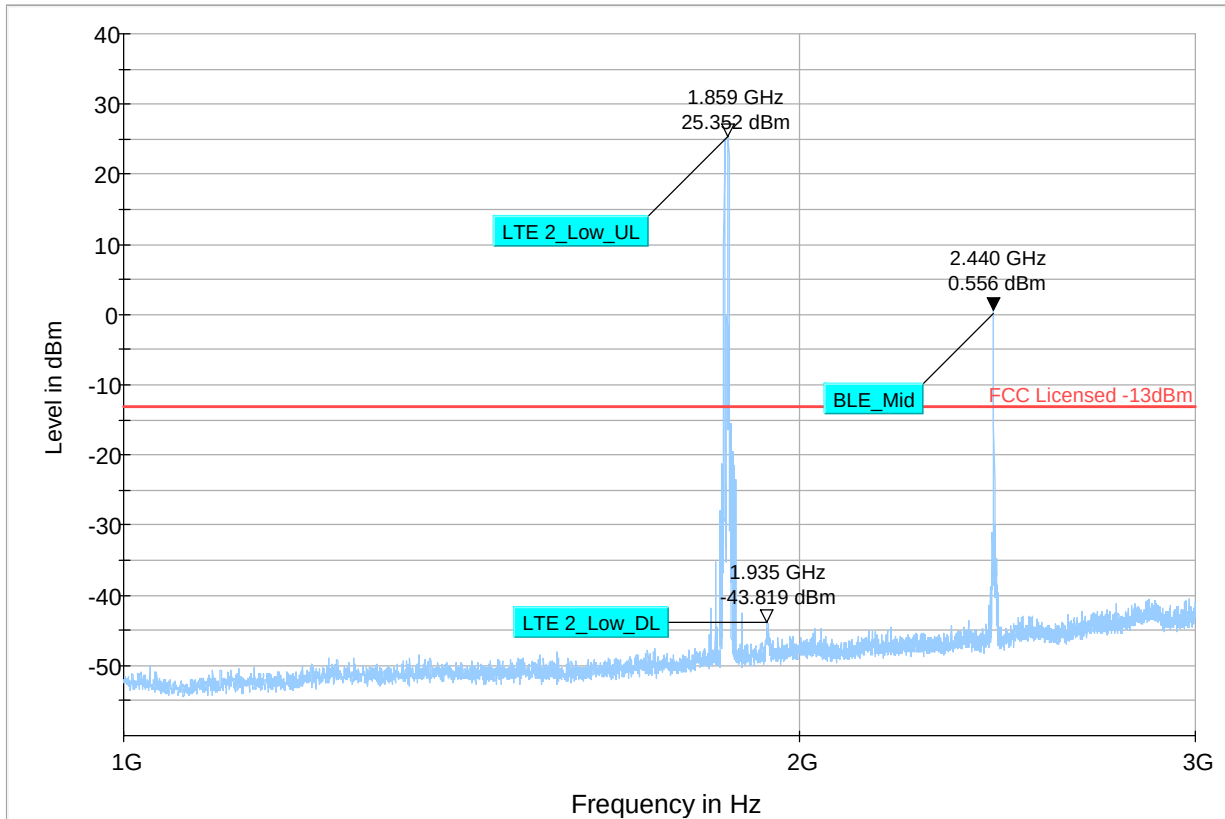
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
37.590	---	-92.02	---	---	500.0	120.000	100.0	H	218.0	-	
37.590	-57.63	---	-13.00	44.63	500.0	120.000	100.0	H	218.0	-	
581.324	---	-52.08	---	---	500.0	120.000	186.0	H	128.0	-	
581.324	-33.19	---	-13.00	20.19	500.0	120.000	186.0	H	128.0	-	
743.799	---	-79.81	---	---	500.0	120.000	107.0	H	301.0	-	
743.799	-61.31	---	-13.00	48.31	500.0	120.000	107.0	H	301.0	-	



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RMS

Plot # 2

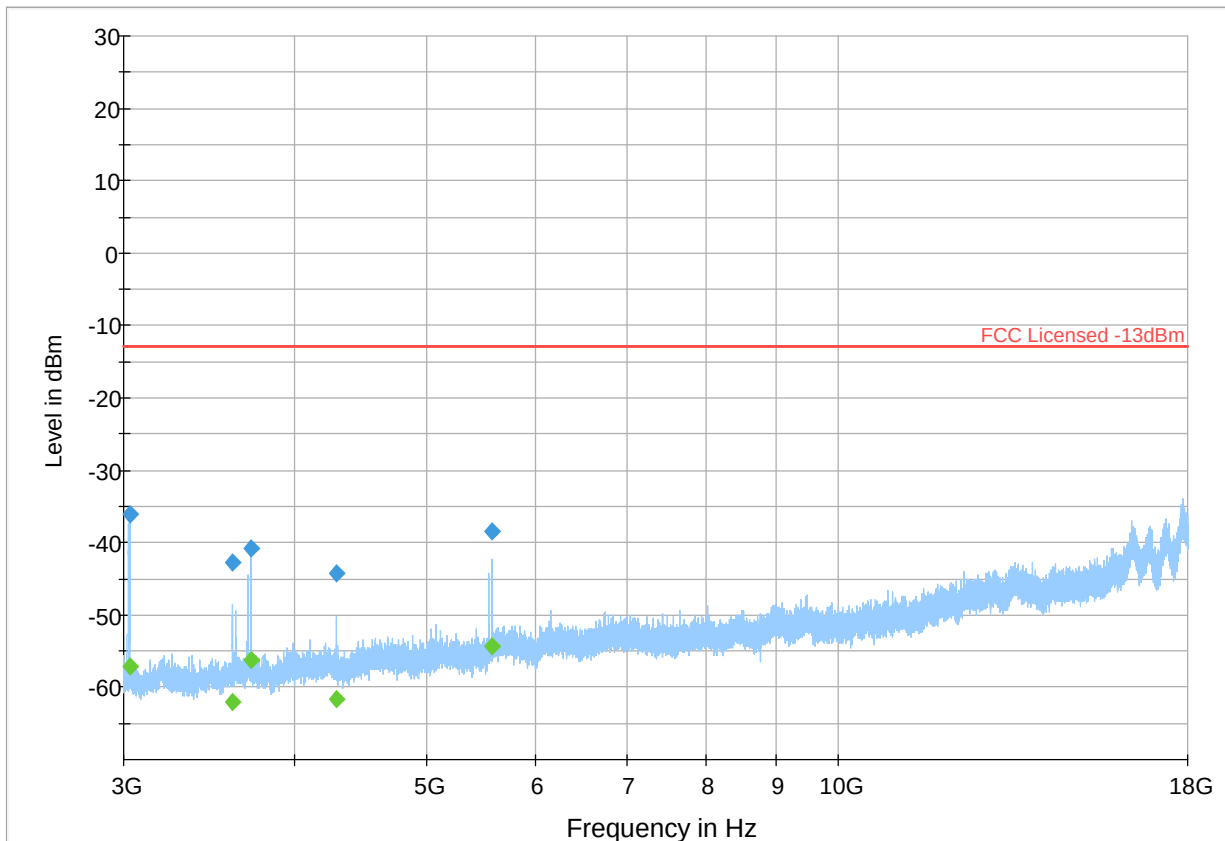
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



◆ Preview Result 1-PK+ Final_Result PK+
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS

Plot # 3

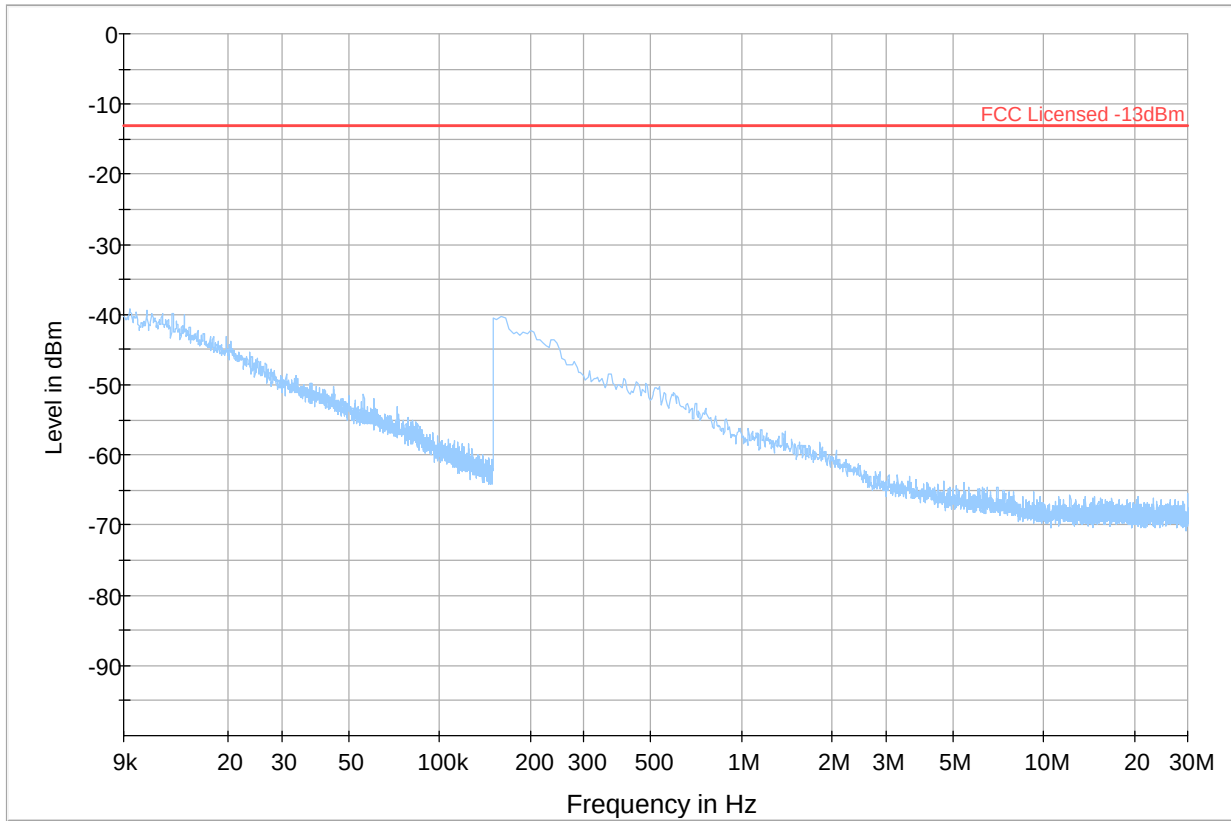
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
3028.500	---	-57.09	---	---	500.0	1000.000	176.0	H	281.0	-	
3028.500	-36.04	---	-13.00	23.04	500.0	1000.000	176.0	H	281.0	-	
3601.250	---	-62.09	---	---	500.0	1000.000	147.0	H	267.0	-	
3601.250	-42.72	---	-13.00	29.72	500.0	1000.000	147.0	H	267.0	-	
3717.250	---	-56.31	---	---	500.0	1000.000	169.0	H	271.0	-	
3717.250	-40.85	---	-13.00	27.85	500.0	1000.000	169.0	H	271.0	-	
4291.000	---	-61.64	---	---	500.0	1000.000	143.0	H	272.0	-99.5	
4291.000	-44.18	---	-13.00	31.18	500.0	1000.000	143.0	H	272.0	-99.5	
5577.000	---	-54.37	---	---	500.0	1000.000	229.0	H	152.0	-97.1	
5577.000	-38.35	---	-13.00	25.35	500.0	1000.000	229.0	H	152.0	-97.1	



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RM

Plot # 4

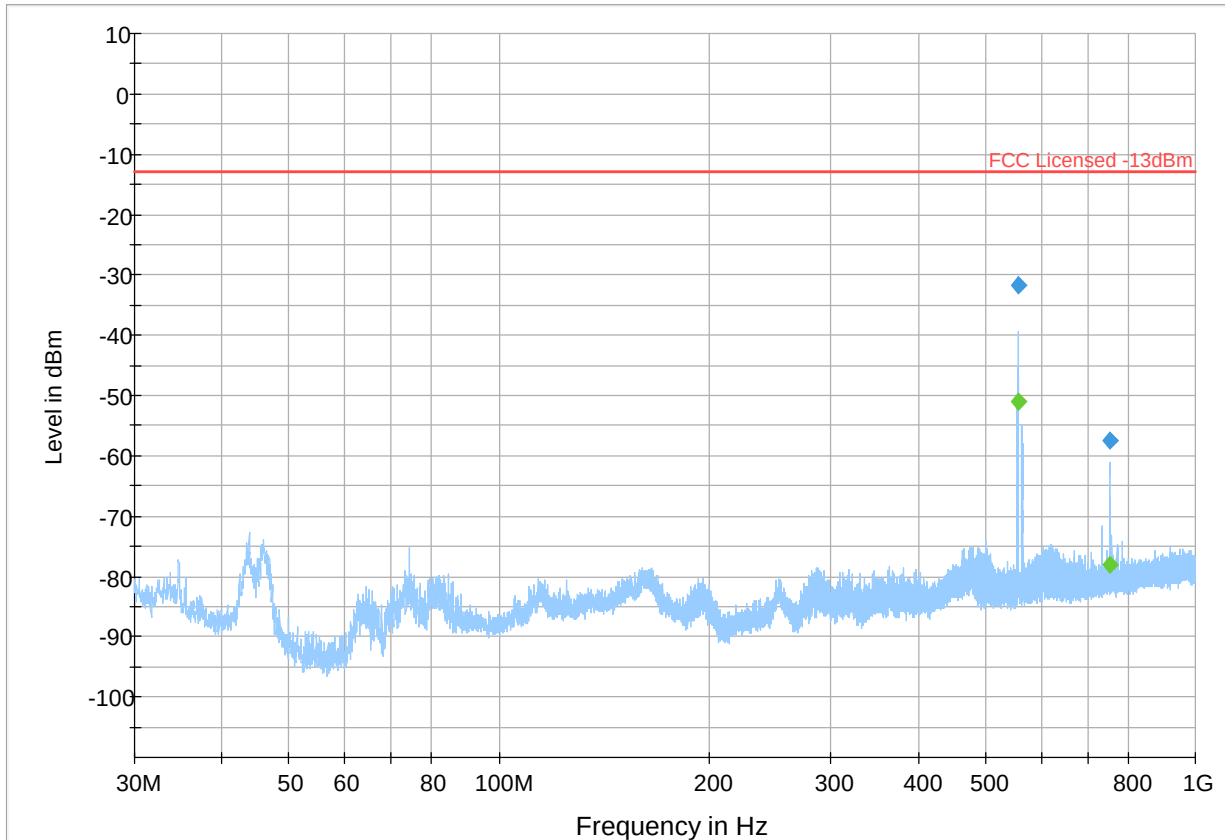
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



—◆— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm
◆ Final_Result PK+ ◆ Final_Result RMS

Plot # 5

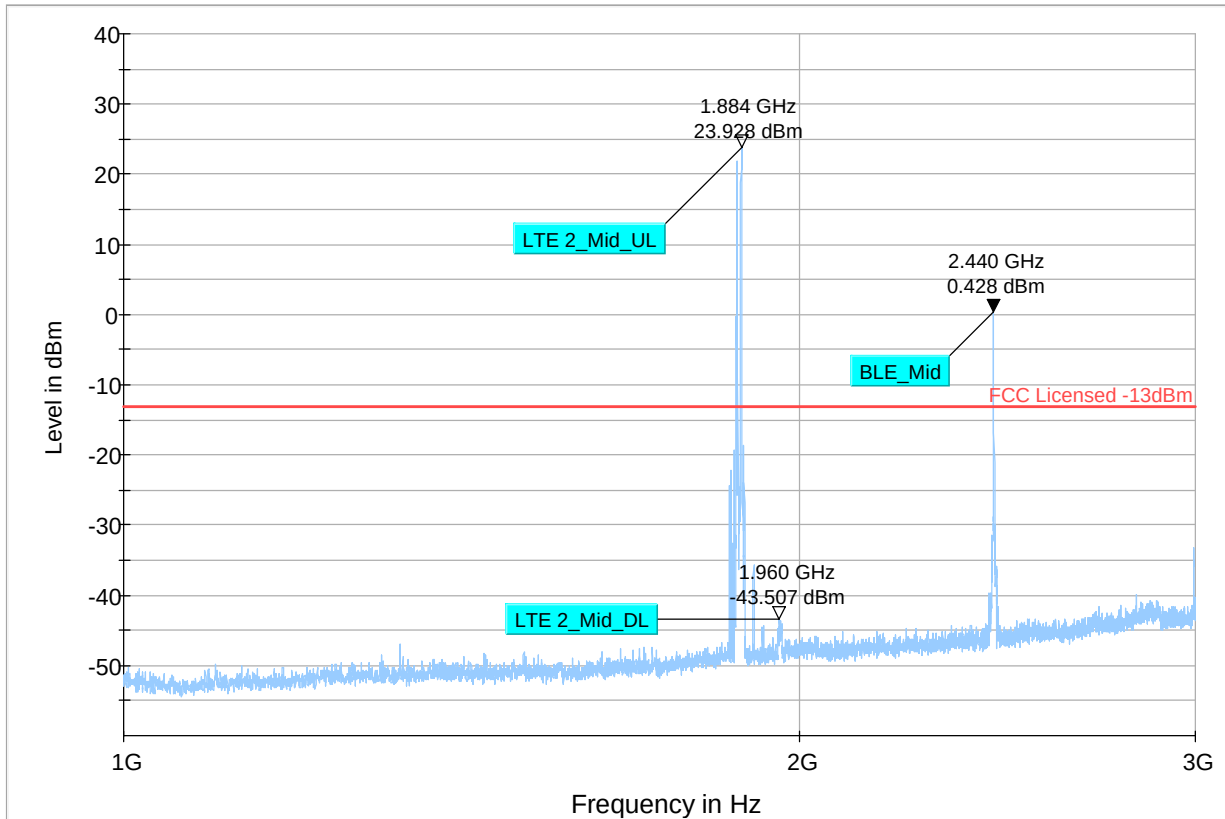
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
555.886	---	-50.97	---	---	500.0	120.000	223.0	H	343.0	-	
555.886	-31.75	---	-13.00	18.75	500.0	120.000	223.0	H	343.0	-	
753.838	---	-78.03	---	---	500.0	120.000	117.0	H	56.0	-	
753.838	-57.42	---	-13.00	44.42	500.0	120.000	117.0	H	56.0	-	



— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result PK+ ◆ Final_Result RM

Plot # 6

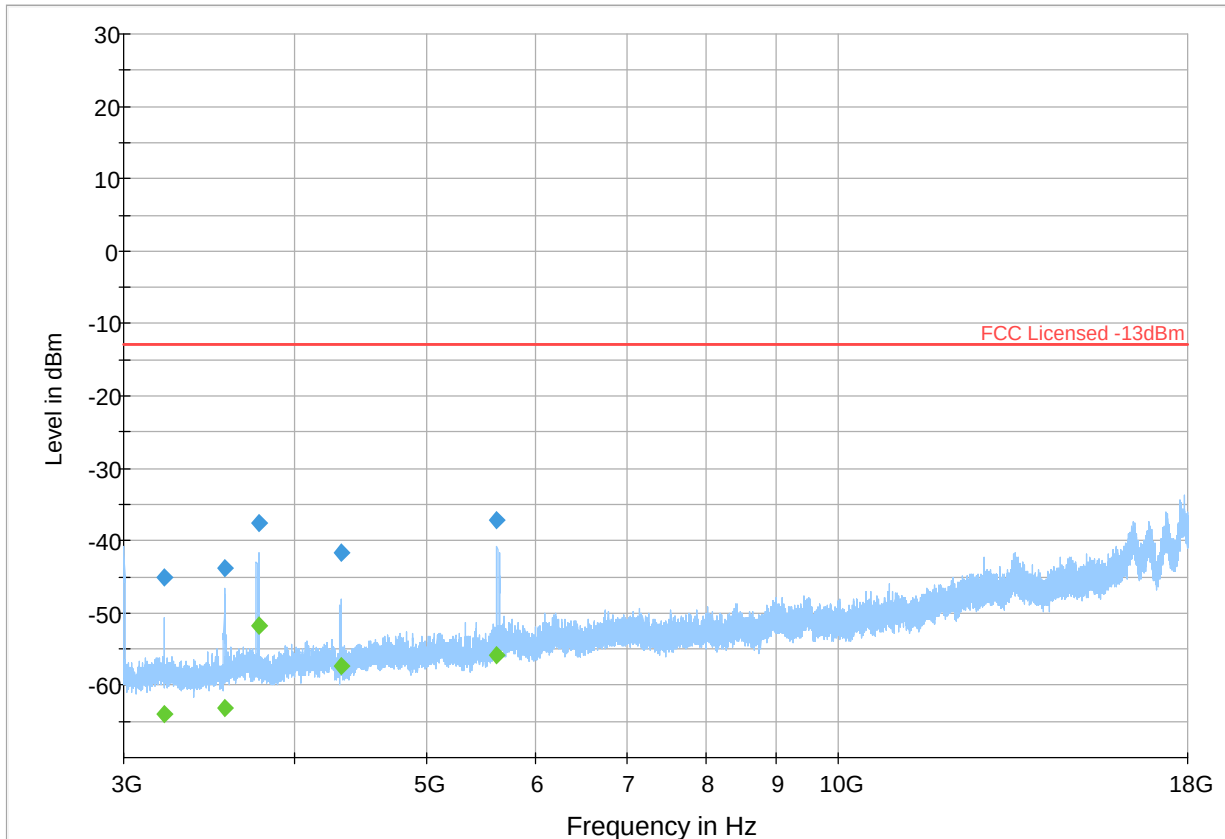
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



◆ Preview Result 1-PK+ Final_Result PK+
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS

Plot # 7

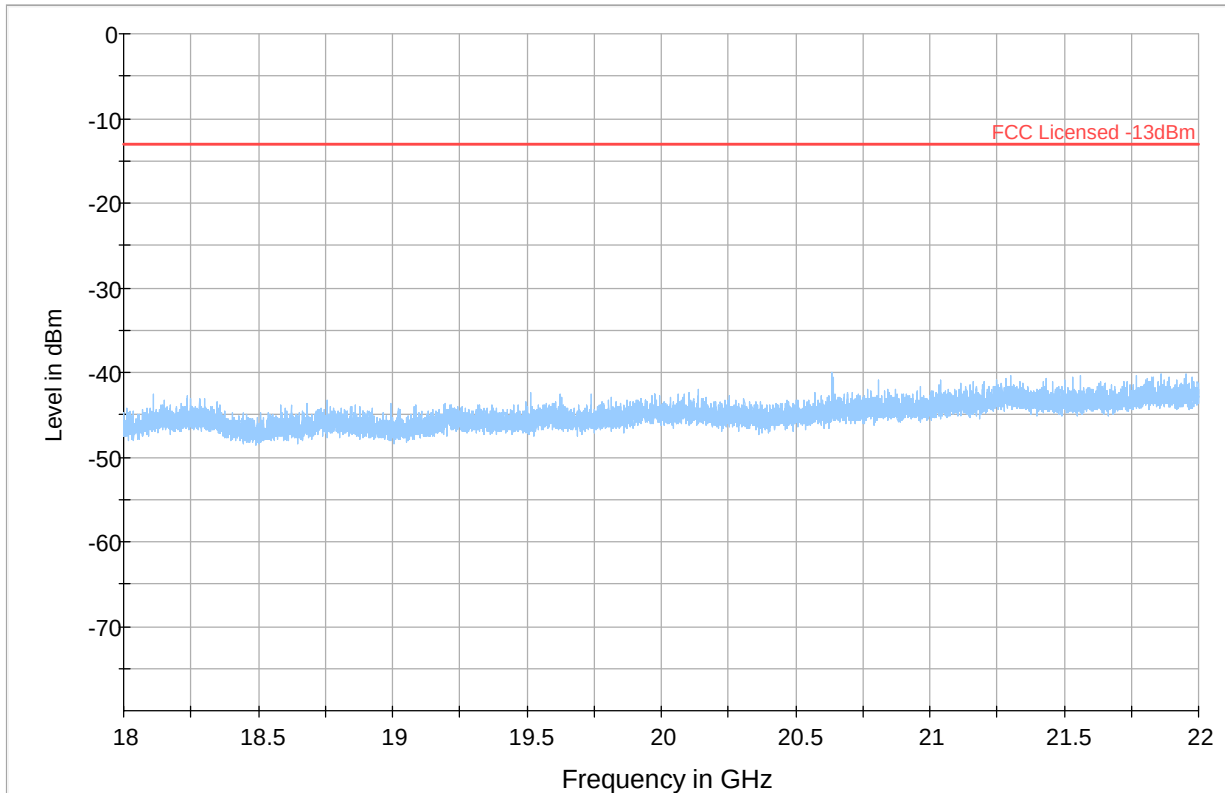
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
3212.250	---	-64.04	---	---	500.0	1000.000	219.0	H	105.0	-	
3212.250	-45.21	---	-13.00	32.21	500.0	1000.000	219.0	H	105.0	-	
3553.750	---	-63.10	---	---	500.0	1000.000	142.0	H	317.0	-	
3553.750	-43.87	---	-13.00	30.87	500.0	1000.000	142.0	H	317.0	-	
3767.250	---	-51.81	---	---	500.0	1000.000	134.0	V	322.0	-	
3767.250	-37.64	---	-13.00	24.64	500.0	1000.000	134.0	V	322.0	-	
4324.250	---	-57.42	---	---	500.0	1000.000	194.0	H	250.0	-99.8	
4324.250	-41.59	---	-13.00	28.59	500.0	1000.000	194.0	H	250.0	-99.8	
5627.500	---	-55.92	---	---	500.0	1000.000	107.0	V	1.0	-96.2	
5627.500	-37.16	---	-13.00	24.16	500.0	1000.000	107.0	V	1.0	-96.2	



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RM

Plot # 8

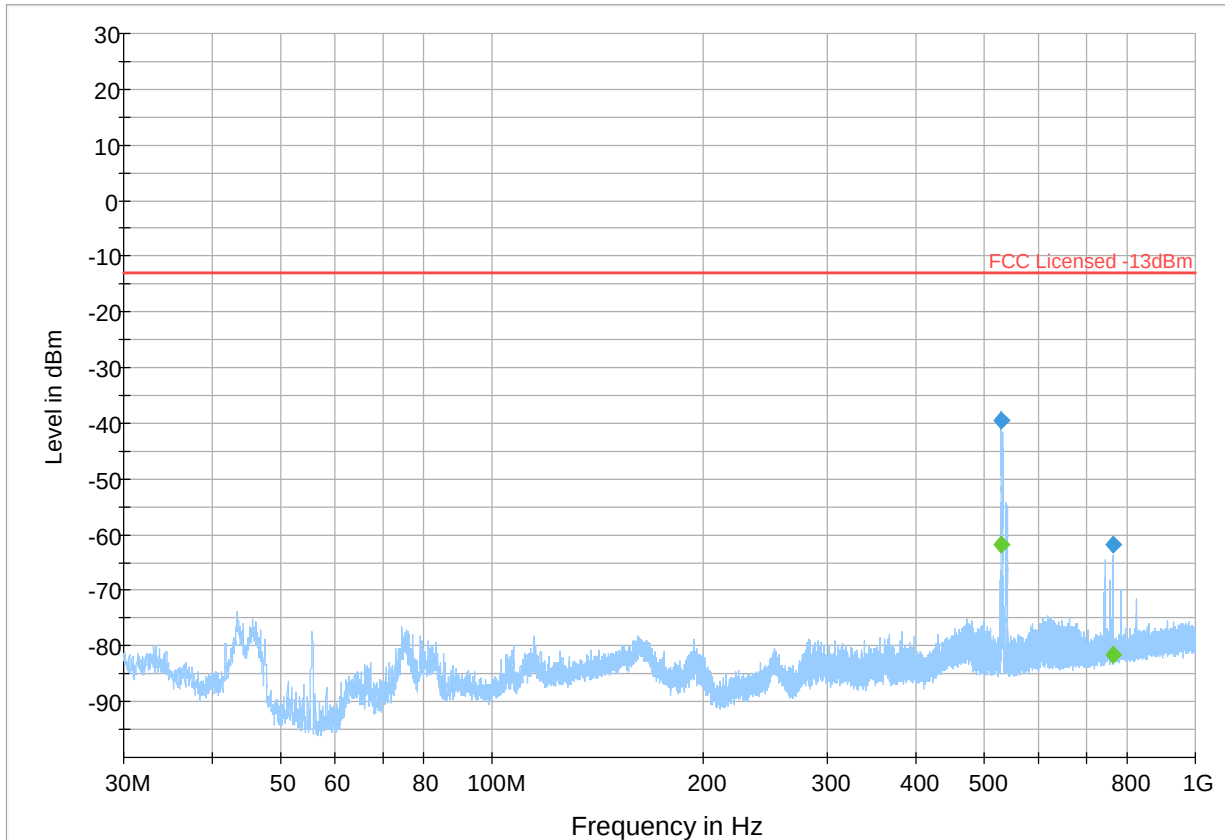
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm
◆ Final_Result PK+ ◆ Final_Result RMS × MaxPeak-PK+ (Single)
+ RMS (Single)

Plot # 9

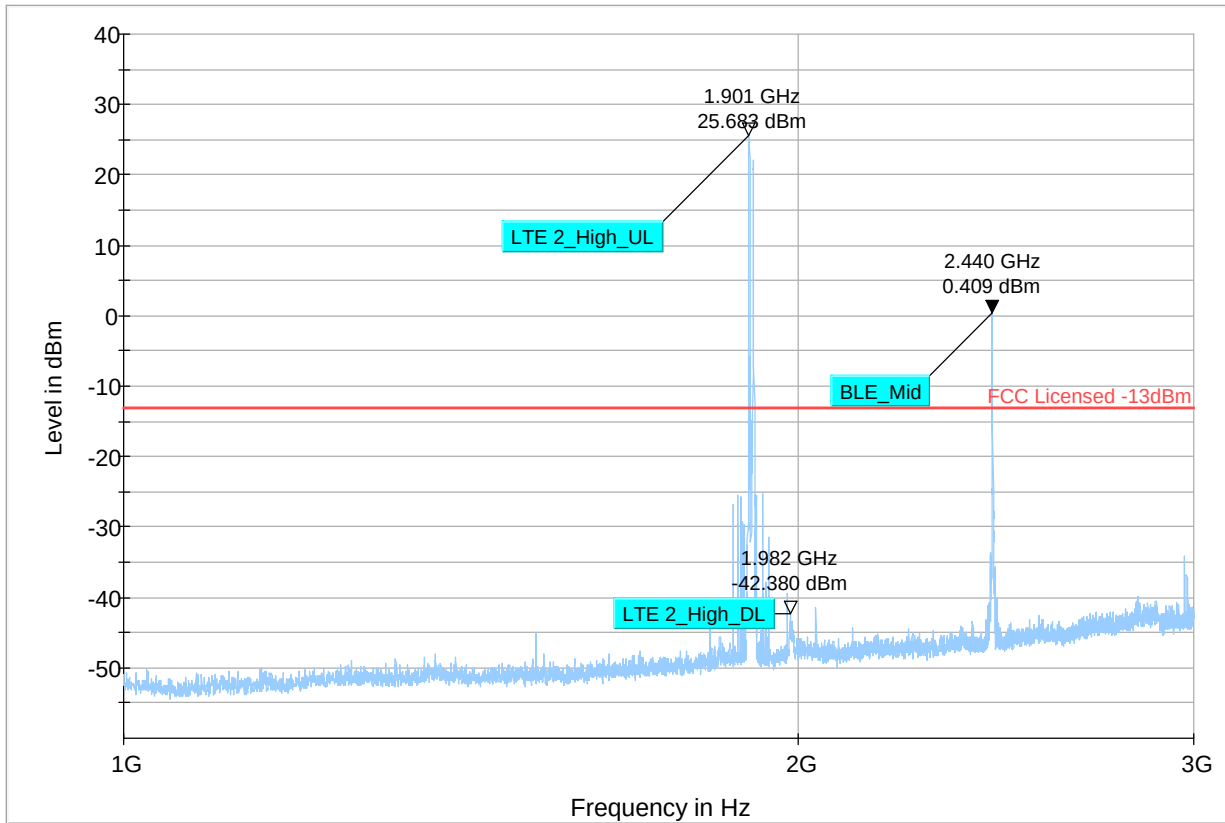
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
530.690	---	-61.72	---	---	500.0	120.000	218.0	H	-10.0	-	
530.690	-39.49	---	-13.00	26.49	500.0	120.000	218.0	H	-10.0	-	
763.708	---	-81.52	---	---	500.0	120.000	107.0	H	240.0	-	
763.708	-61.66	---	-13.00	48.66	500.0	120.000	107.0	H	240.0	-	



— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+
 ◆ Final_Result RM

Plot # 10

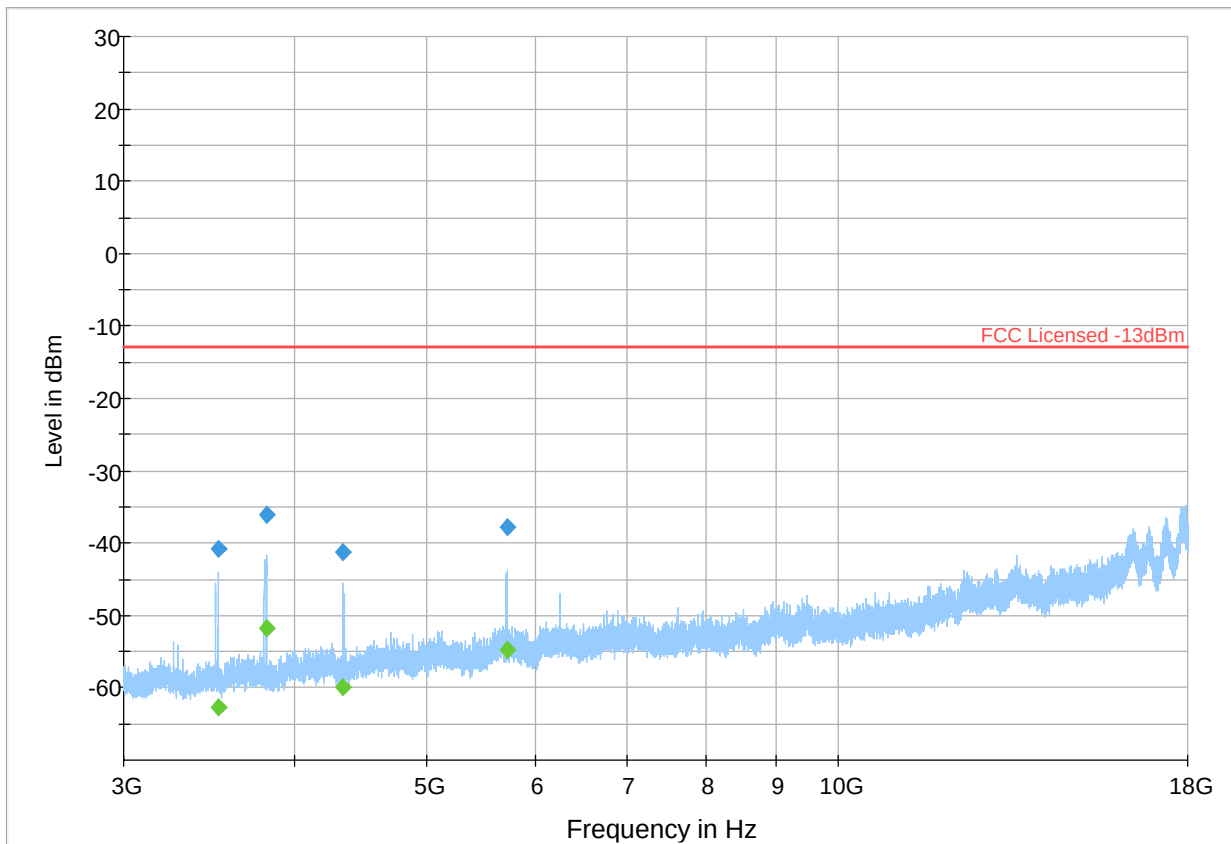
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



◆ Preview Result 1-PK+
◆ Final_Result PK+
 * Critical_Freqs PK+
◆ Final_Result RMS
 — FCC Licensed -13dBm

Plot # 11

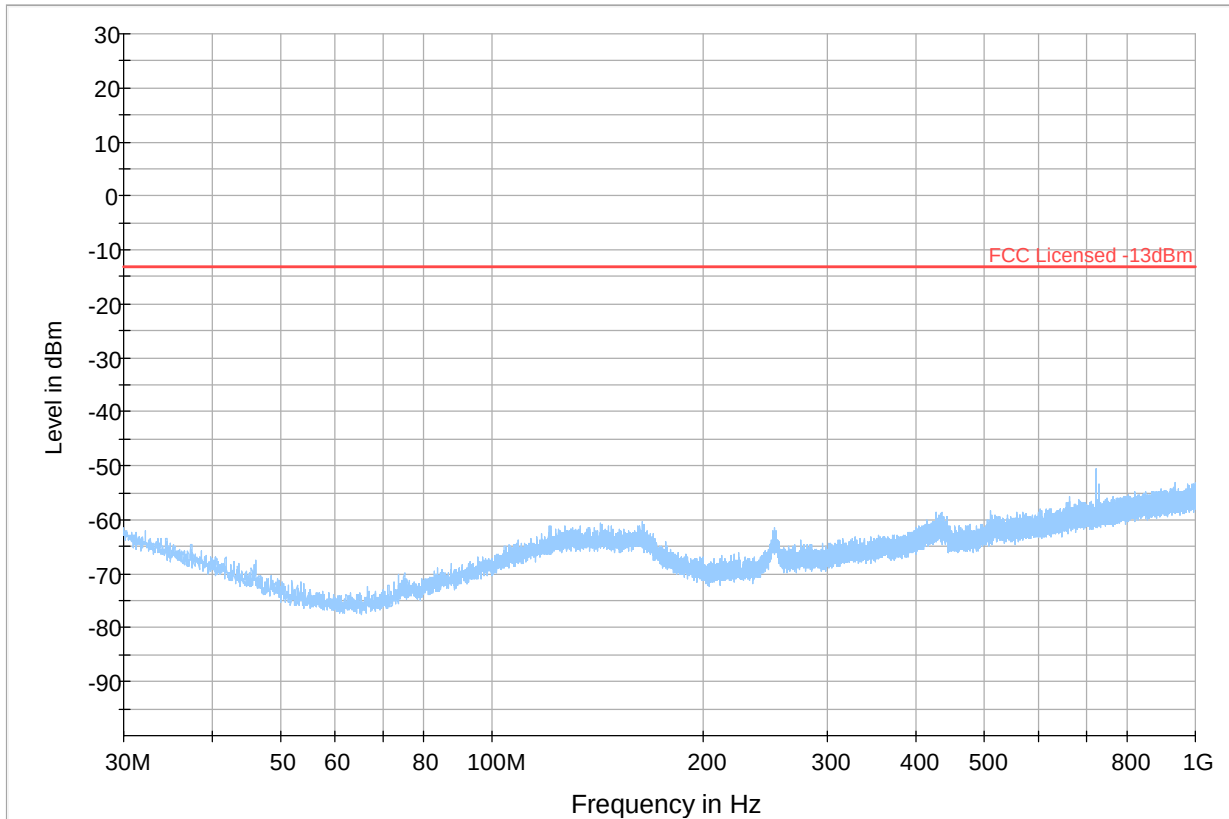
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
3517.500	---	-62.66	---	---	500.0	1000.000	150.0	H	104.0	-	
3517.500	-40.87	---	-13.00	27.87	500.0	1000.000	150.0	H	104.0	-	
3818.250	---	-51.72	---	---	500.0	1000.000	127.0	V	354.0	-	
3818.250	-36.14	---	-13.00	23.14	500.0	1000.000	127.0	V	354.0	-	
4340.750	---	-59.99	---	---	500.0	1000.000	203.0	H	246.0	-99.9	
4340.750	-41.19	---	-13.00	28.19	500.0	1000.000	203.0	H	246.0	-99.9	
5726.250	---	-54.68	---	---	500.0	1000.000	177.0	V	254.0	-95.9	
5726.250	-37.73	---	-13.00	24.73	500.0	1000.000	177.0	V	254.0	-95.9	



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RM

Plot # 12

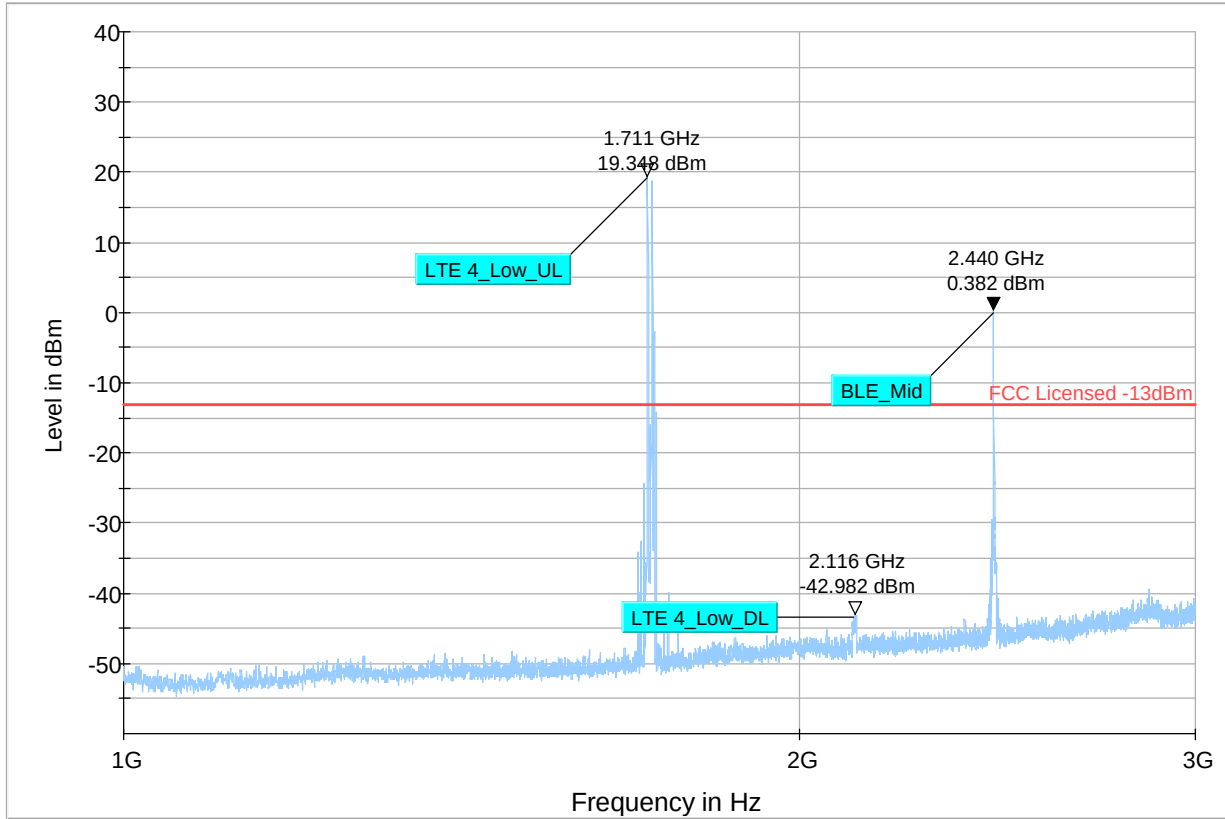
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+

Plot # 13

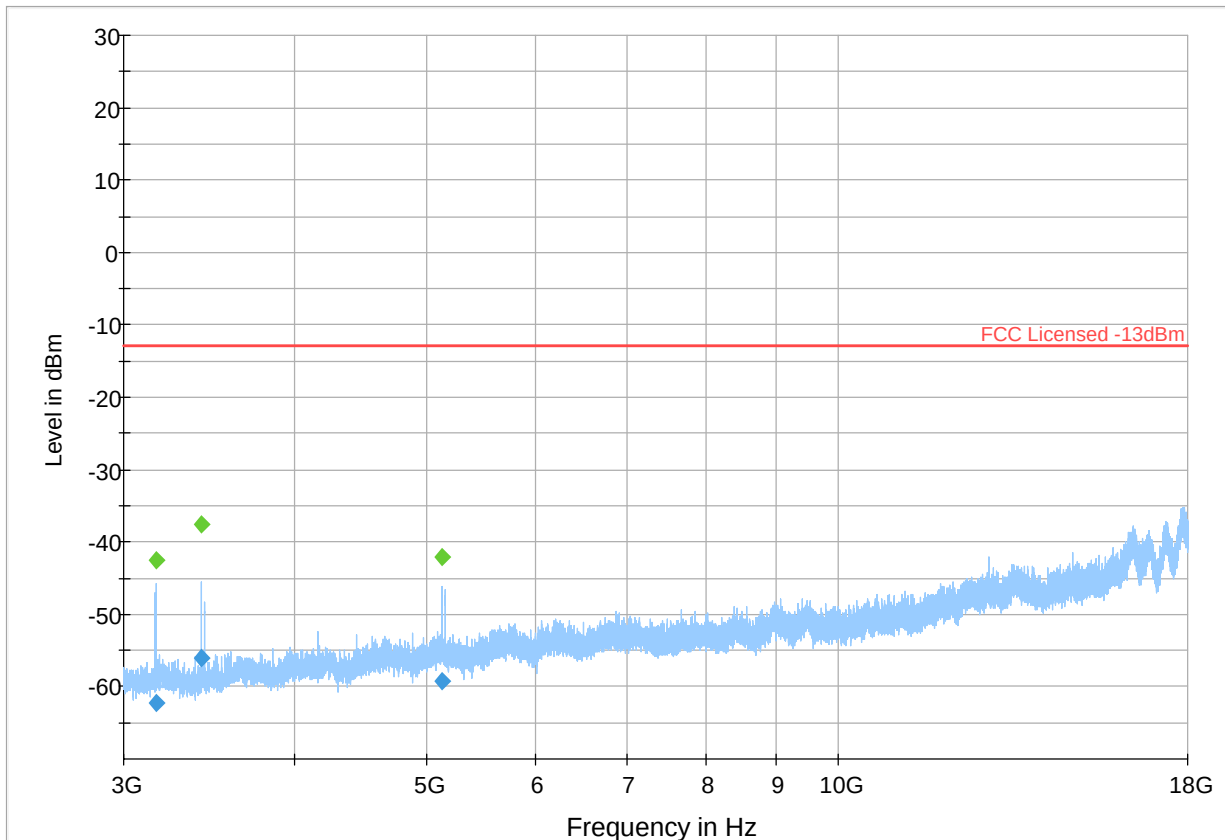
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



◆ Preview Result 1-PK+ Final_Result RMS * Critical_Freqs PK+ Final_Result PK+ — FCC Licensed -13dBm

Plot # 14

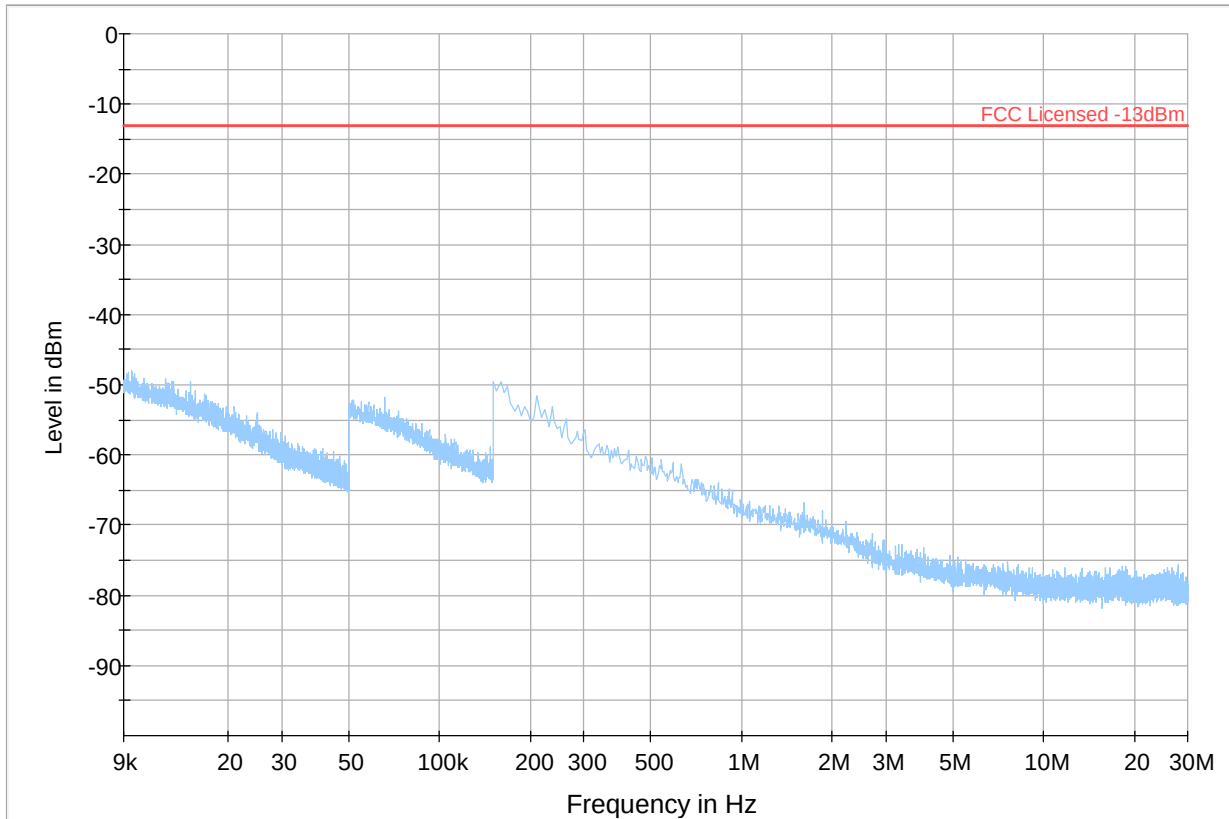
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3169.250	---	-42.63	---	---	500.0	1000.000	184.0	H	78.0	-102.7
3169.250	-62.23	---	-13.00	49.23	500.0	1000.000	184.0	H	78.0	-102.7
3421.750	---	-37.66	---	---	500.0	1000.000	151.0	H	266.0	-102.4
3421.750	-56.07	---	-13.00	43.07	500.0	1000.000	151.0	H	266.0	-102.4
5132.500	---	-42.01	---	---	500.0	1000.000	254.0	H	240.0	-97.8
5132.500	-59.28	---	-13.00	46.28	500.0	1000.000	254.0	H	240.0	-97.8



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 15

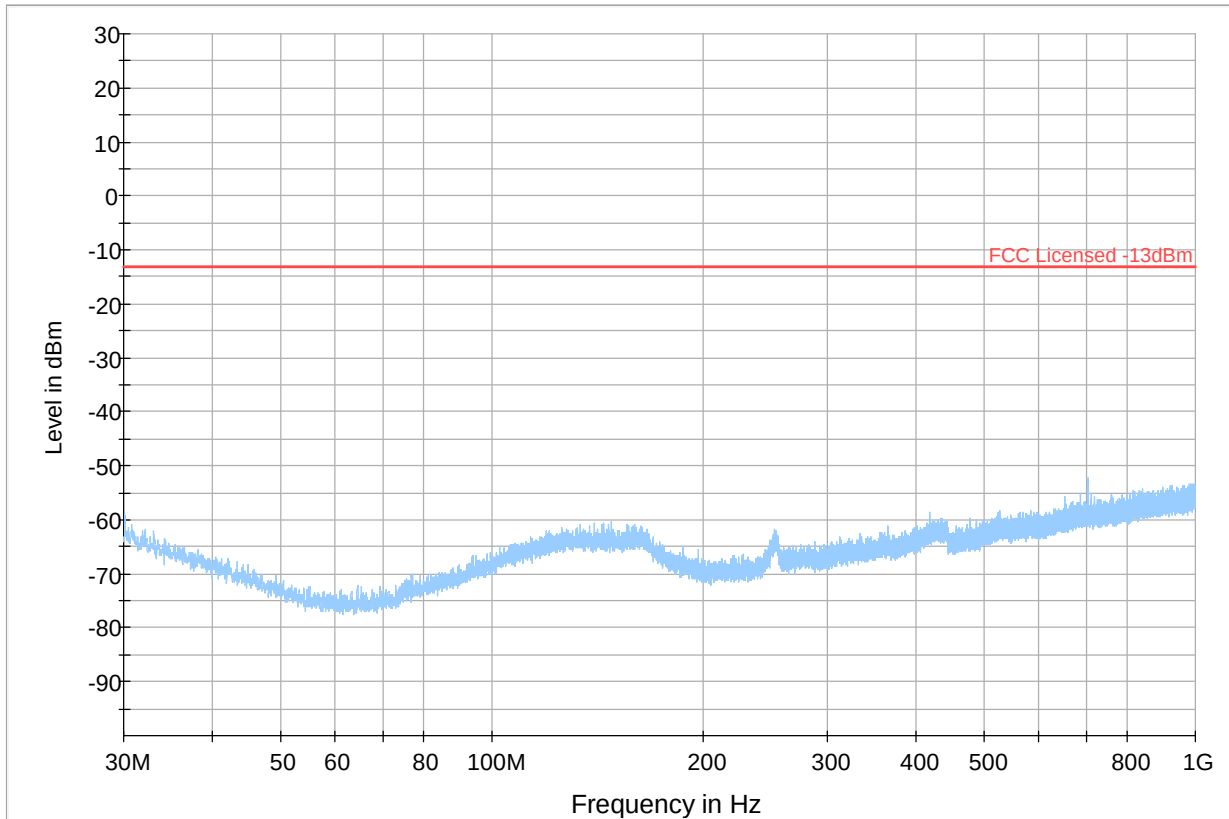
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+

Plot # 16

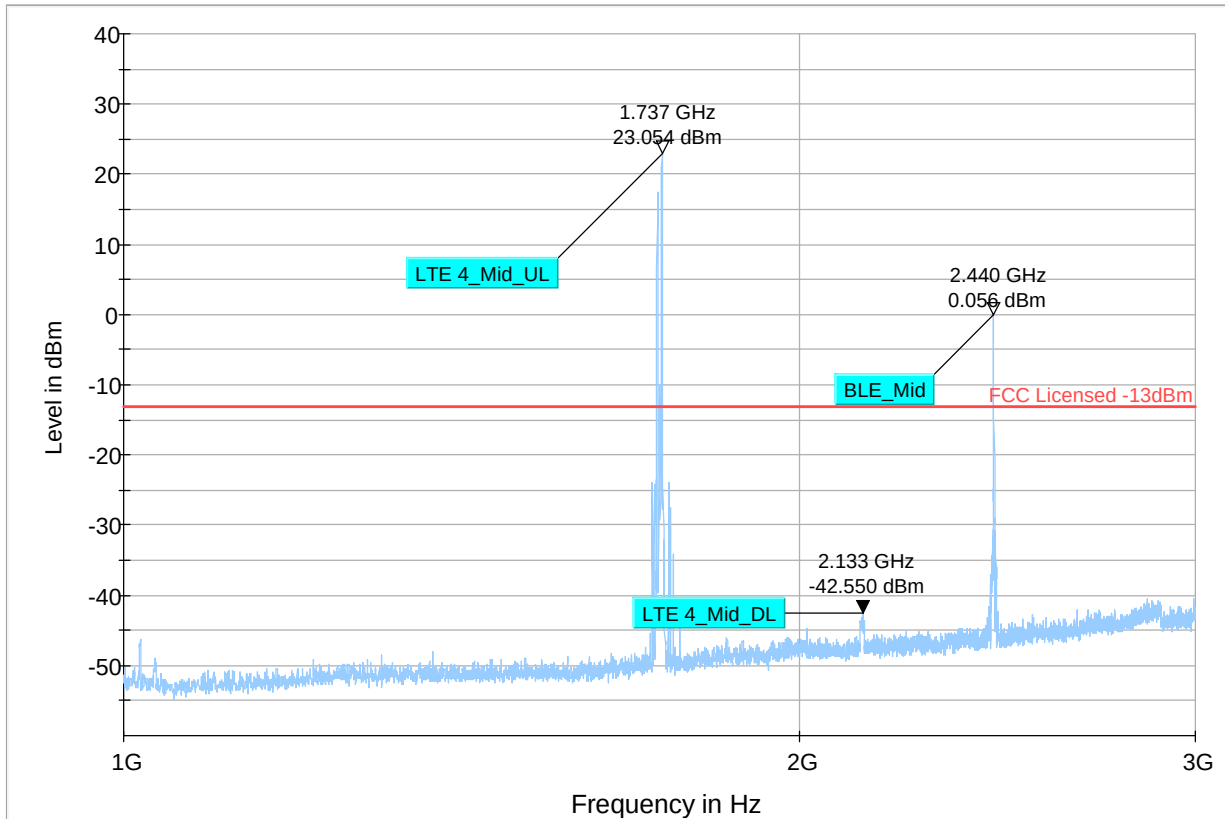
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+

Plot # 17

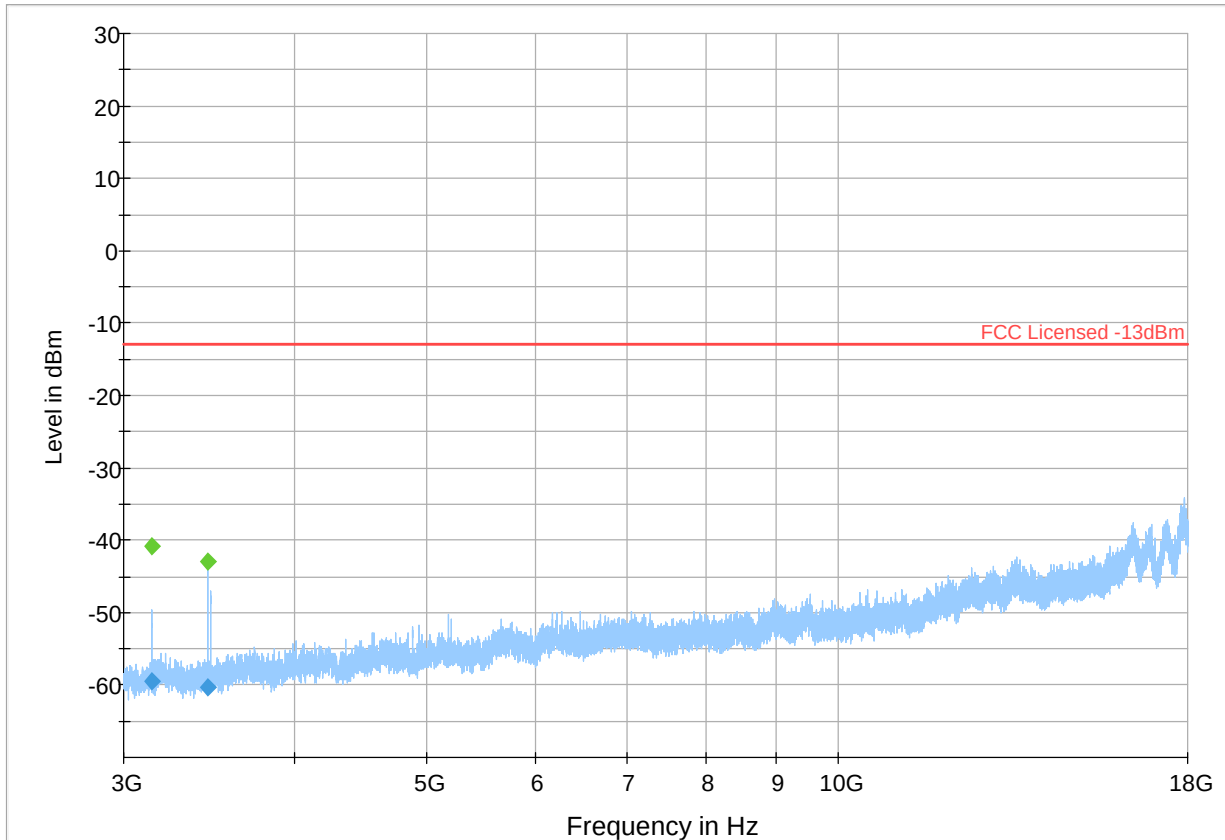
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



◆ Preview Result 1-PK+
◆ Final_Result RMS
 * Critical_Freqs PK+
◆ Final_Result PK+
 — FCC Licensed -13dBm

Plot # 18

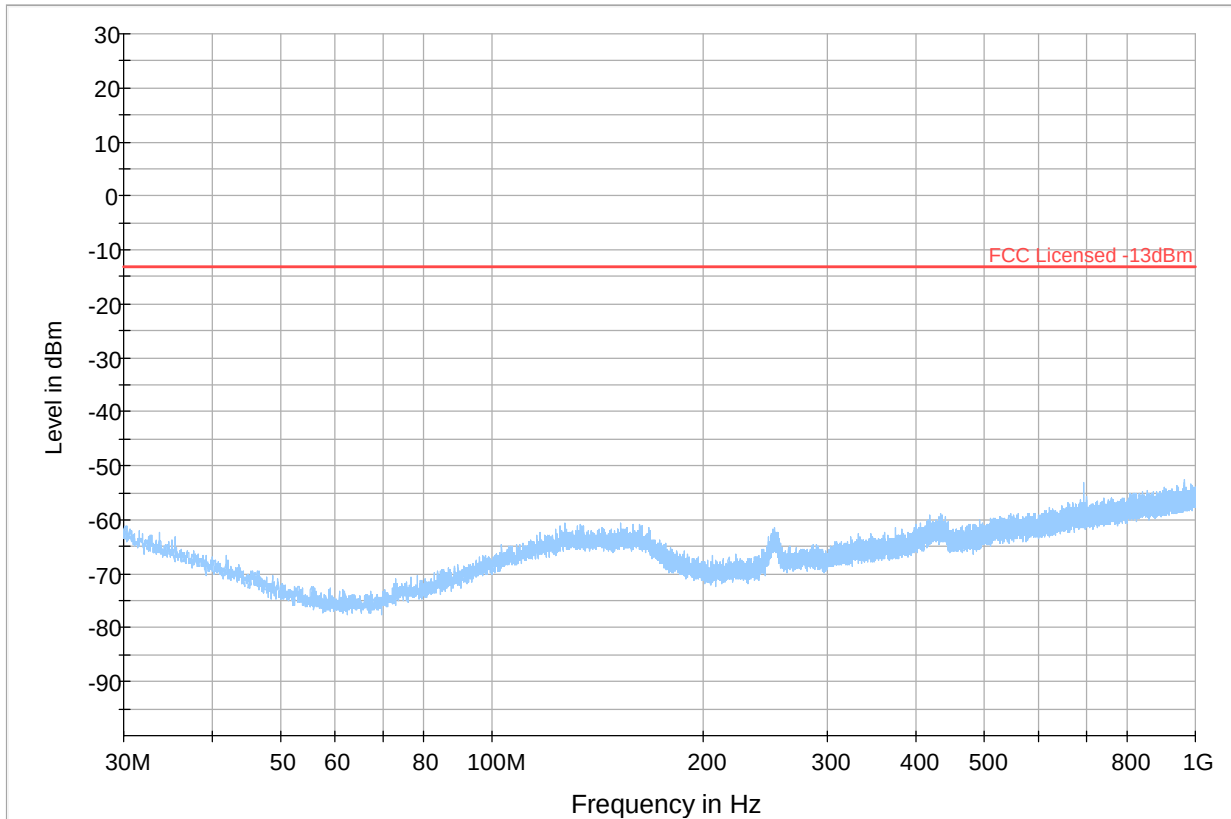
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3143.000	---	-40.91	---	---	500.0	1000.000	141.0	H	84.0	-103.1
3143.000	-59.43	---	-13.00	46.43	500.0	1000.000	141.0	H	84.0	-103.1
3456.750	---	-43.07	---	---	500.0	1000.000	107.0	V	206.0	-102.2
3456.750	-60.32	---	-13.00	47.32	500.0	1000.000	107.0	V	206.0	-102.2



— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK

Plot # 19

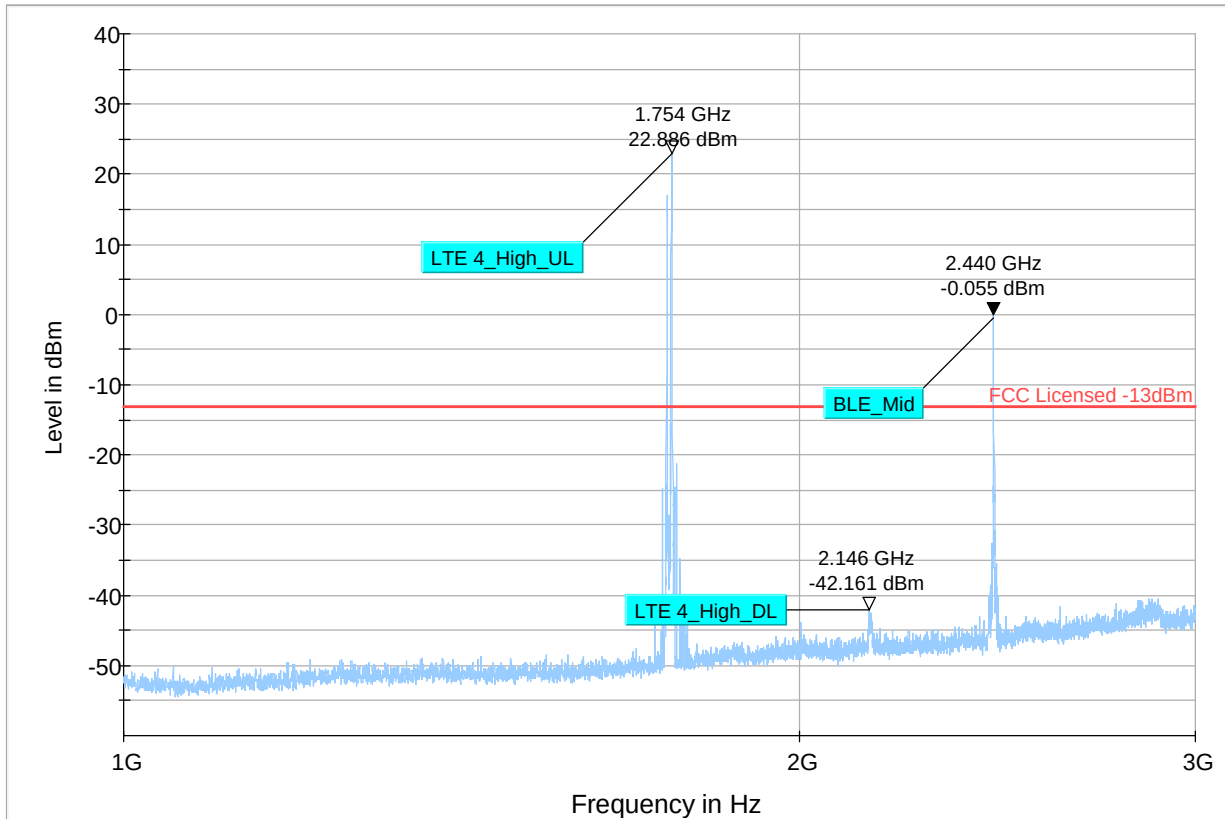
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 ◆ Final_Result PK+
 — FCC Licensed -13dBm

Plot # 20

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---	---	---	---

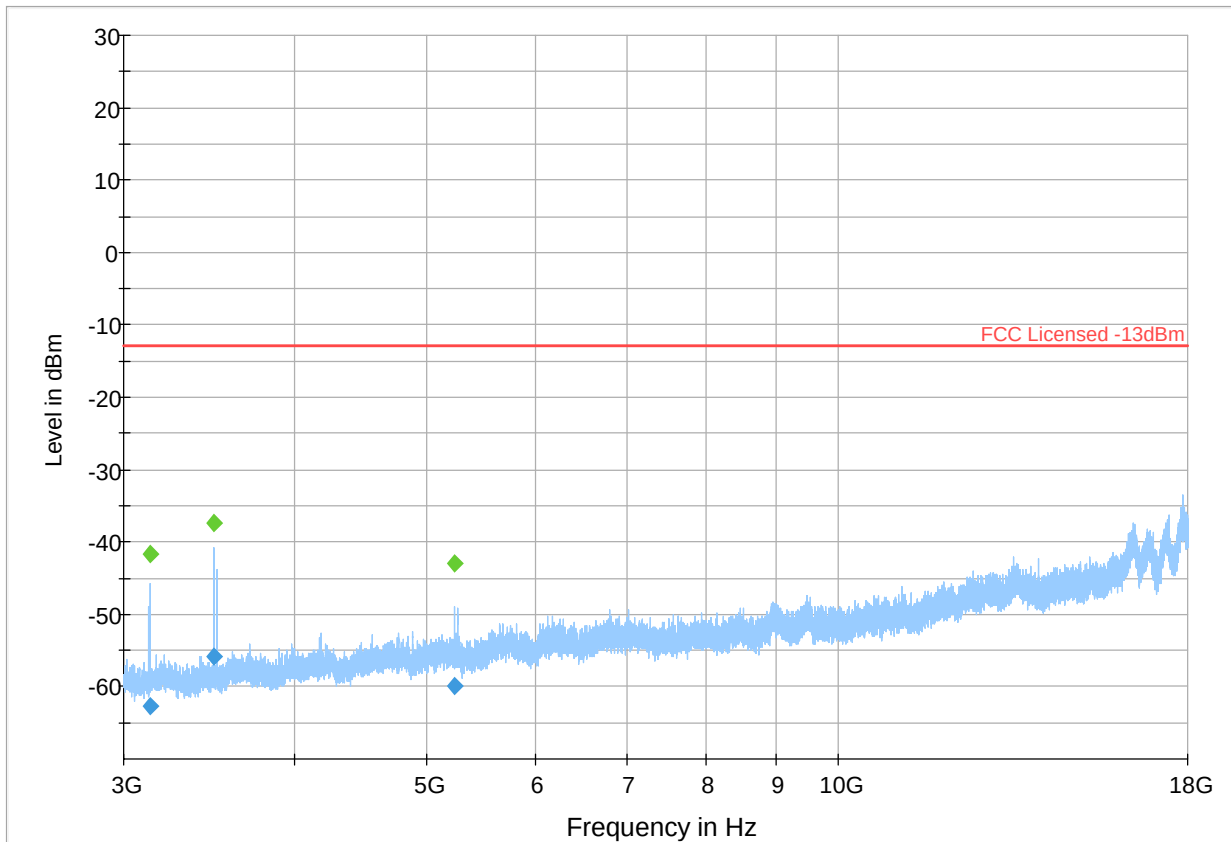


◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm

◆ Final_Result PK+

Plot # 21

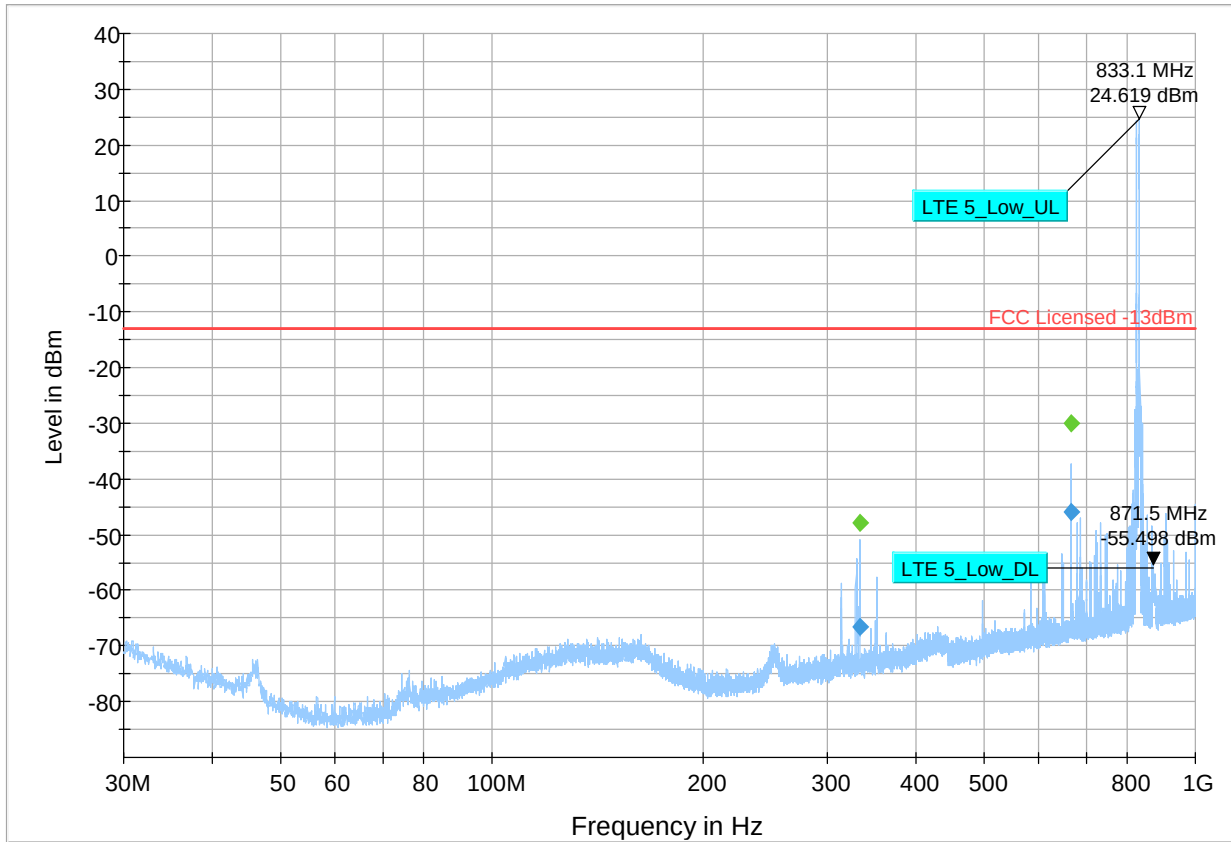
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3133.500	---	-41.74	---	---	500.0	1000.000	272.0	H	308.0	-103.2
3133.500	-62.76	---	-13.00	49.76	500.0	1000.000	272.0	H	308.0	-103.2
3491.750	---	-37.48	---	---	500.0	1000.000	125.0	V	98.0	-102.2
3491.750	-55.86	---	-13.00	42.86	500.0	1000.000	125.0	V	98.0	-102.2
5237.500	---	-43.01	---	---	500.0	1000.000	233.0	H	48.0	-97.2
5237.500	-60.02	---	-13.00	47.02	500.0	1000.000	233.0	H	48.0	-97.2



— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK

Plot # 22

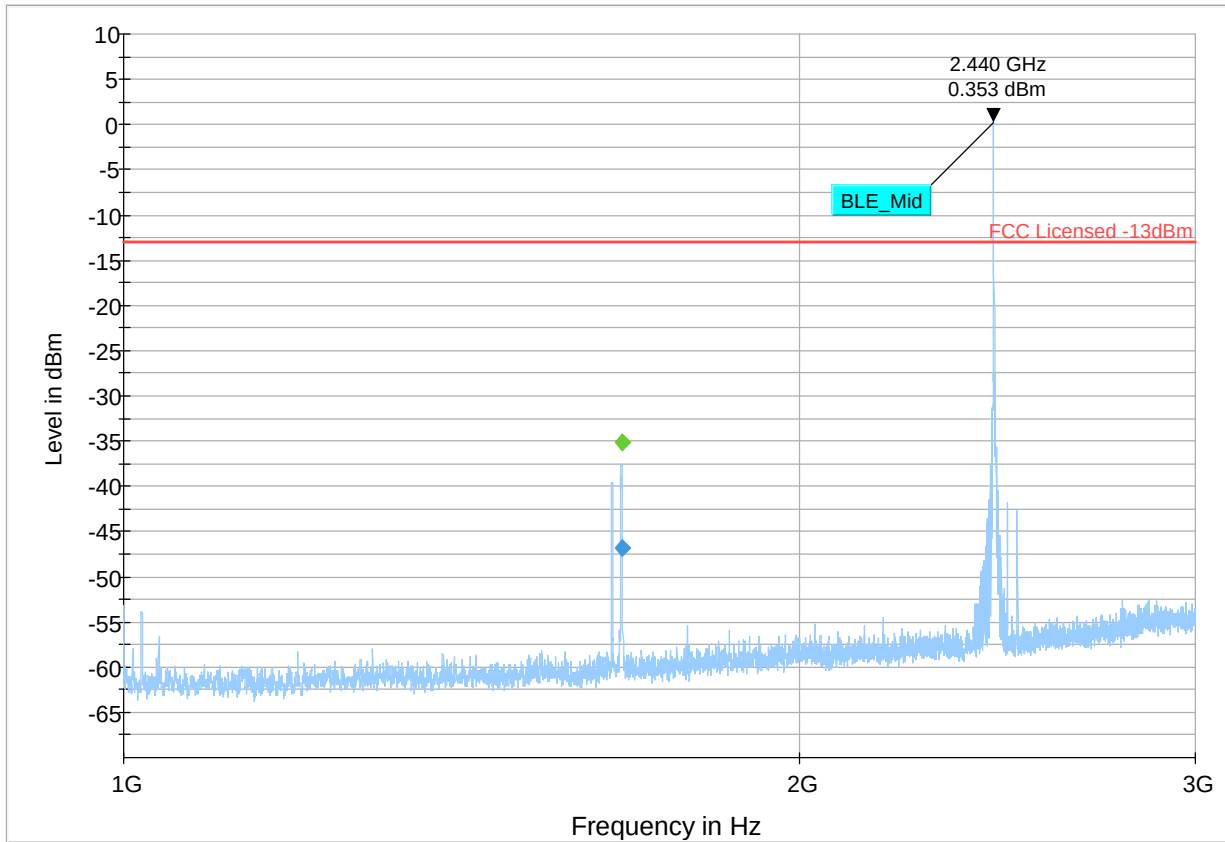
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
333.093	-66.56	---	-13.00	53.56	500.0	100.000	100.0	H	180.0	-79.0	
333.093	---	-47.77	---	---	500.0	100.000	100.0	H	180.0	-79.0	
666.223	-45.93	---	-13.00	32.93	500.0	100.000	150.0	H	172.0	-72.8	
666.223	---	-30.11	---	---	500.0	100.000	150.0	H	172.0	-72.8	



— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK

Plot # 23

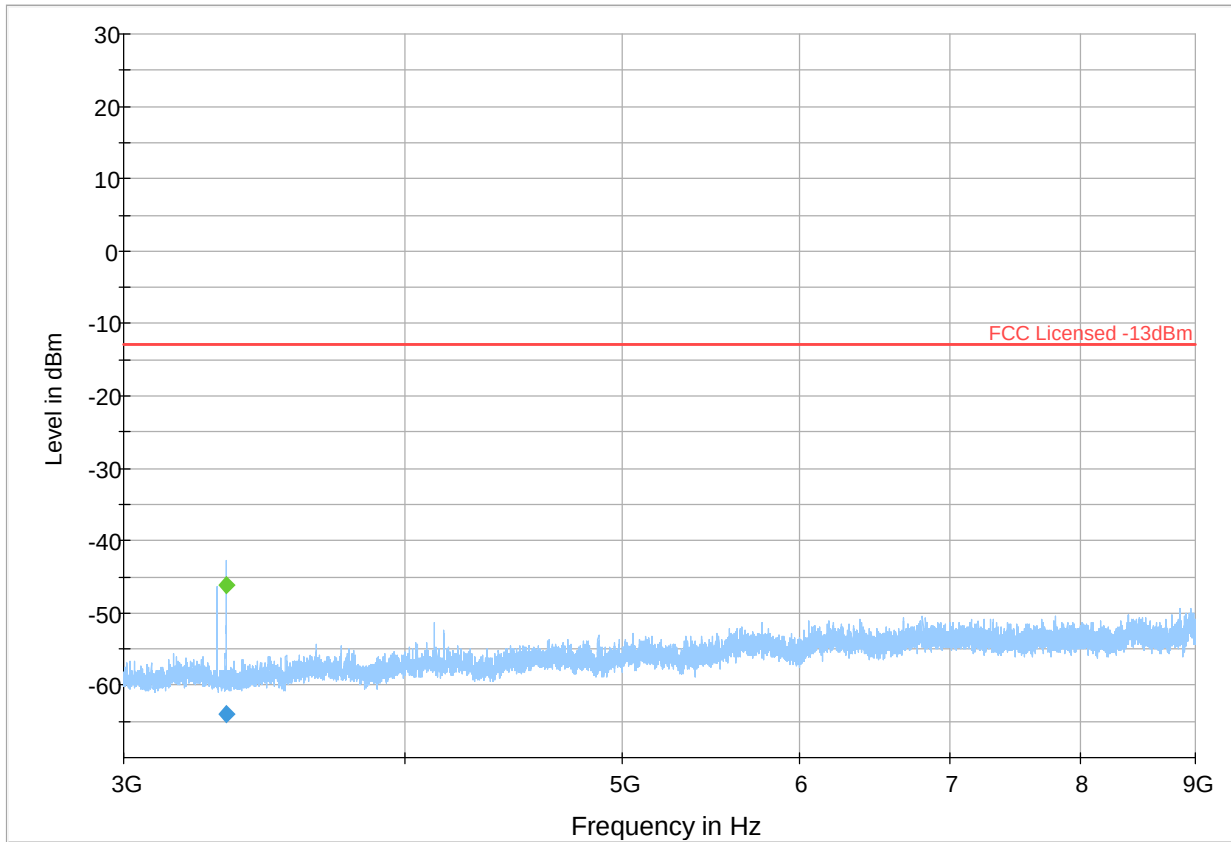
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
1666.000	---	-35.20	---	---	500.0	1000.000	151.0	H	60.0	-91.6	
1666.000	-46.75	---	-13.00	33.75	500.0	1000.000	151.0	H	60.0	-91.6	



Preview Result 1-PK+ FCC Licensed -13dBm ◆ Final_Result RMS ◆ Final_Result PK

Plot # 24

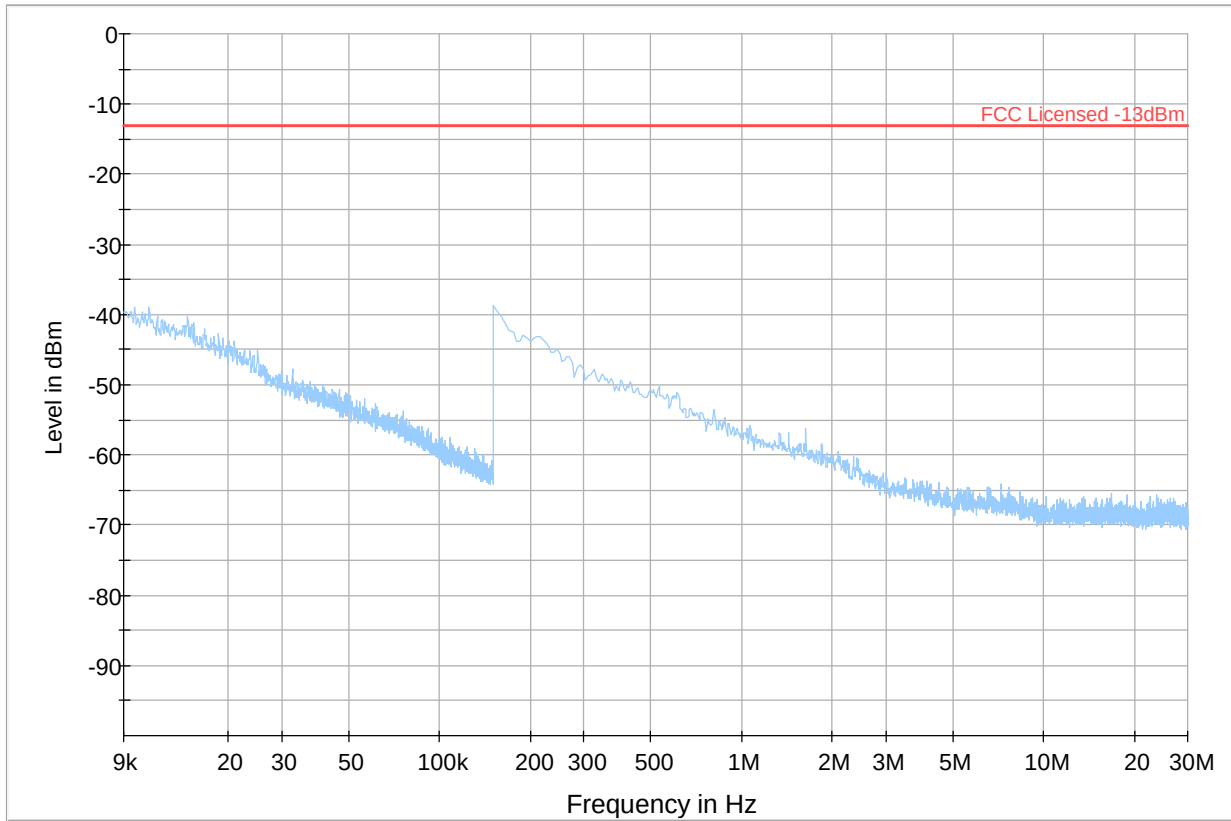
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
3331.750	---	-46.11	---	---	500.0	1000.000	208.0	V	335.0	-	
3331.750	-63.97	---	-13.00	50.97	500.0	1000.000	208.0	V	335.0	-	



Preview Result 1-PK+ FCC Licensed -13dBm ◆ Final_Result RMS ◆ Final_Result PK

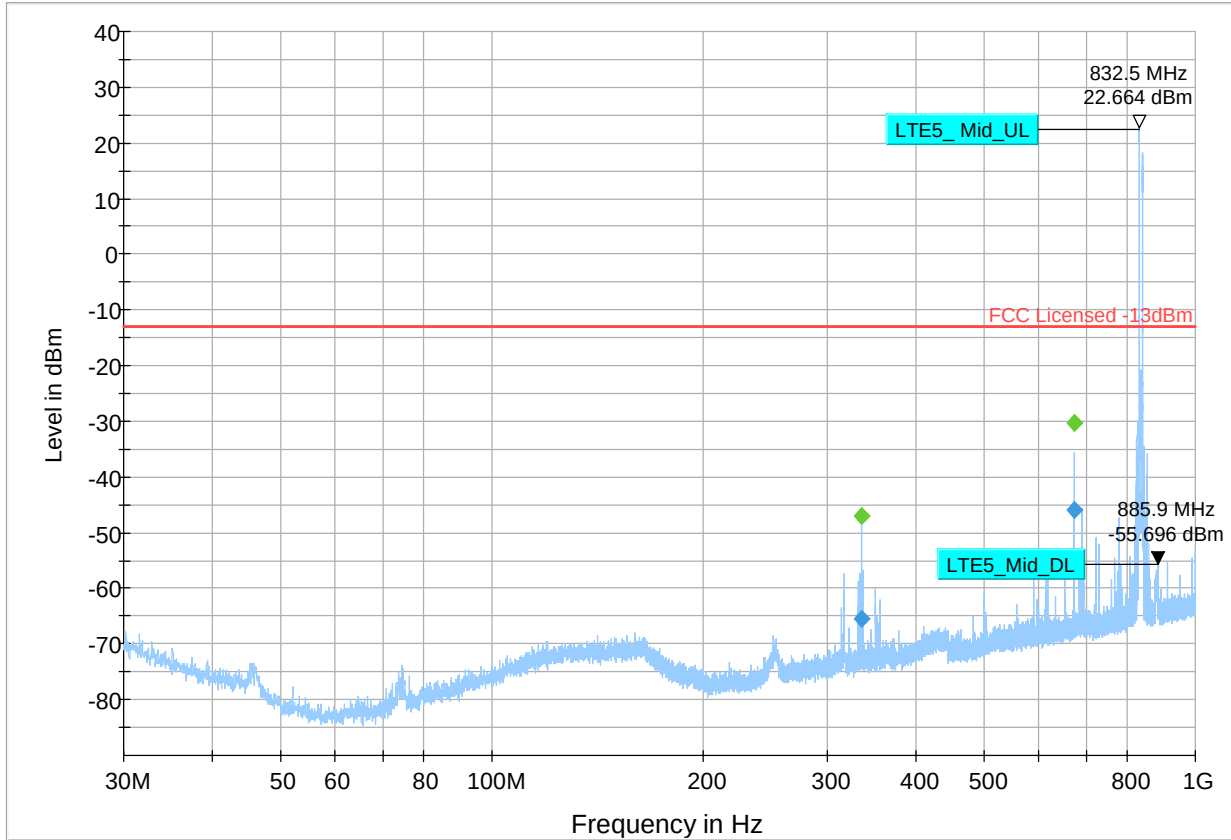
Plot # 25

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
---	---	---	---	---	---	---	---		---	---	



Plot # 26

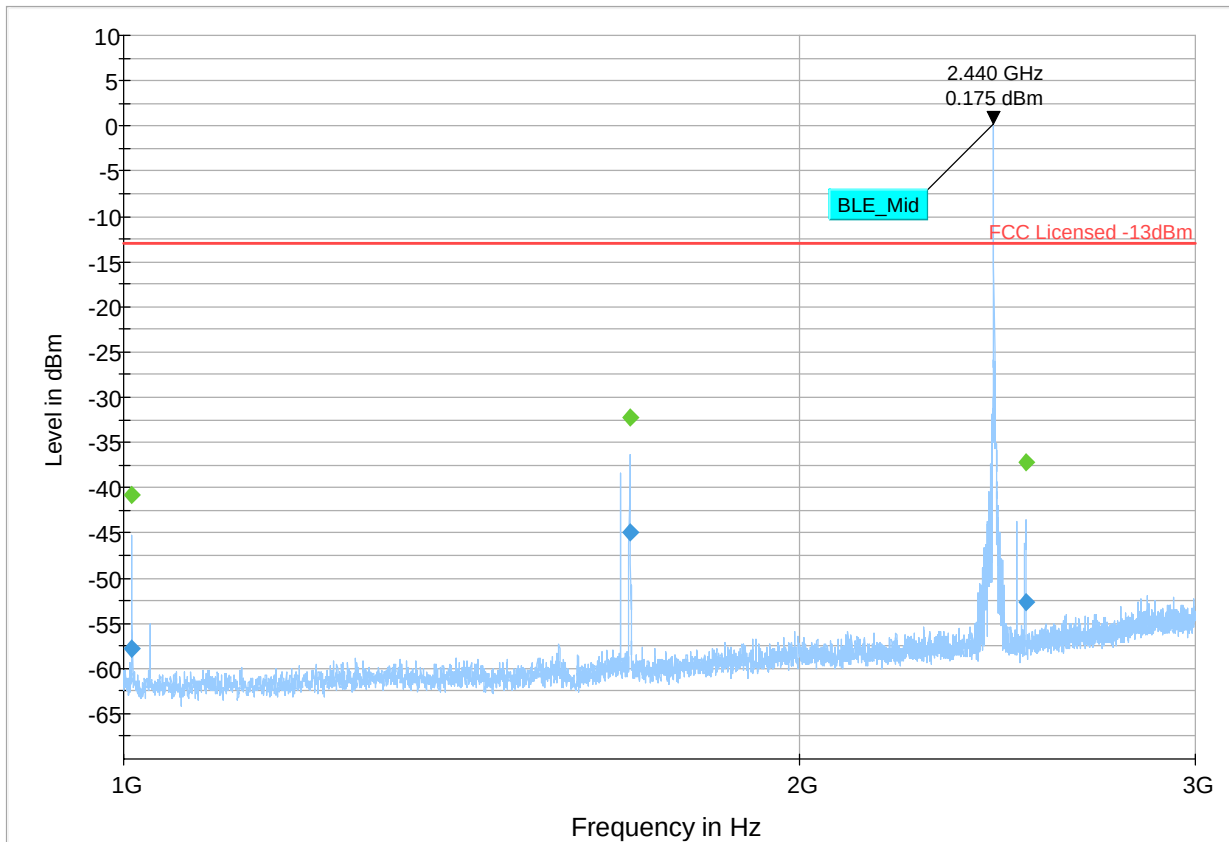
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
336.100	-65.42	---	-13.00	52.42	500.0	100.000	100.0	H	174.0	-79.0	
336.100	---	-47.10	---	---	500.0	100.000	100.0	H	174.0	-79.0	
672.205	-46.03	---	-13.00	33.03	500.0	100.000	143.0	H	172.0	-72.7	
672.205	---	-30.21	---	---	500.0	100.000	143.0	H	172.0	-72.7	



— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS ◆ Final_Result PK

Plot # 27

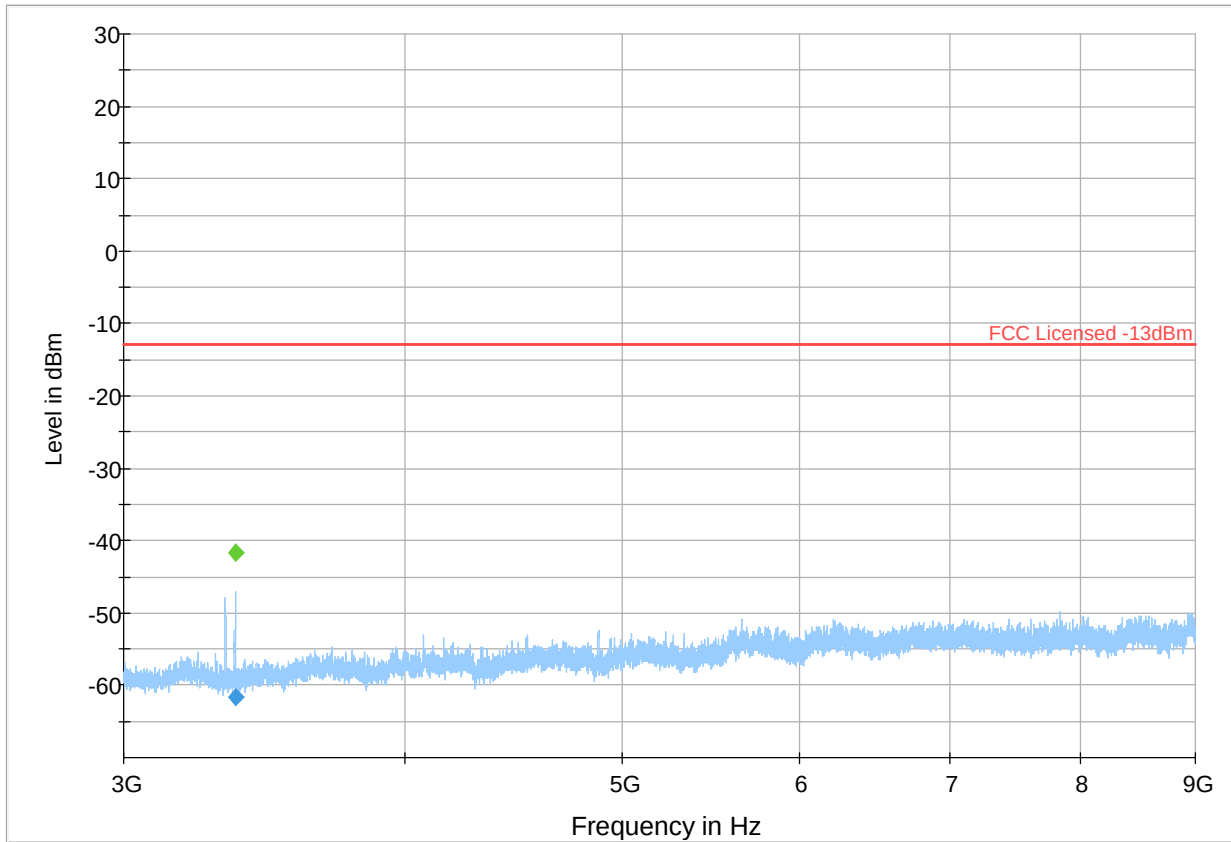
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
1008.250	---	-40.88	---	---	500.0	1000.000	116.0	H	111.0	-93.2	
1008.250	-57.81	---	-13.00	44.81	500.0	1000.000	116.0	H	111.0	-93.2	
1681.000	---	-32.23	---	---	500.0	1000.000	100.0	H	302.0	-91.4	
1681.000	-44.92	---	-13.00	31.92	500.0	1000.000	100.0	H	302.0	-91.4	
2521.500	---	-37.18	---	---	500.0	1000.000	107.0	V	359.0	-89.0	
2521.500	-52.62	---	-13.00	39.62	500.0	1000.000	107.0	V	359.0	-89.0	



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 28

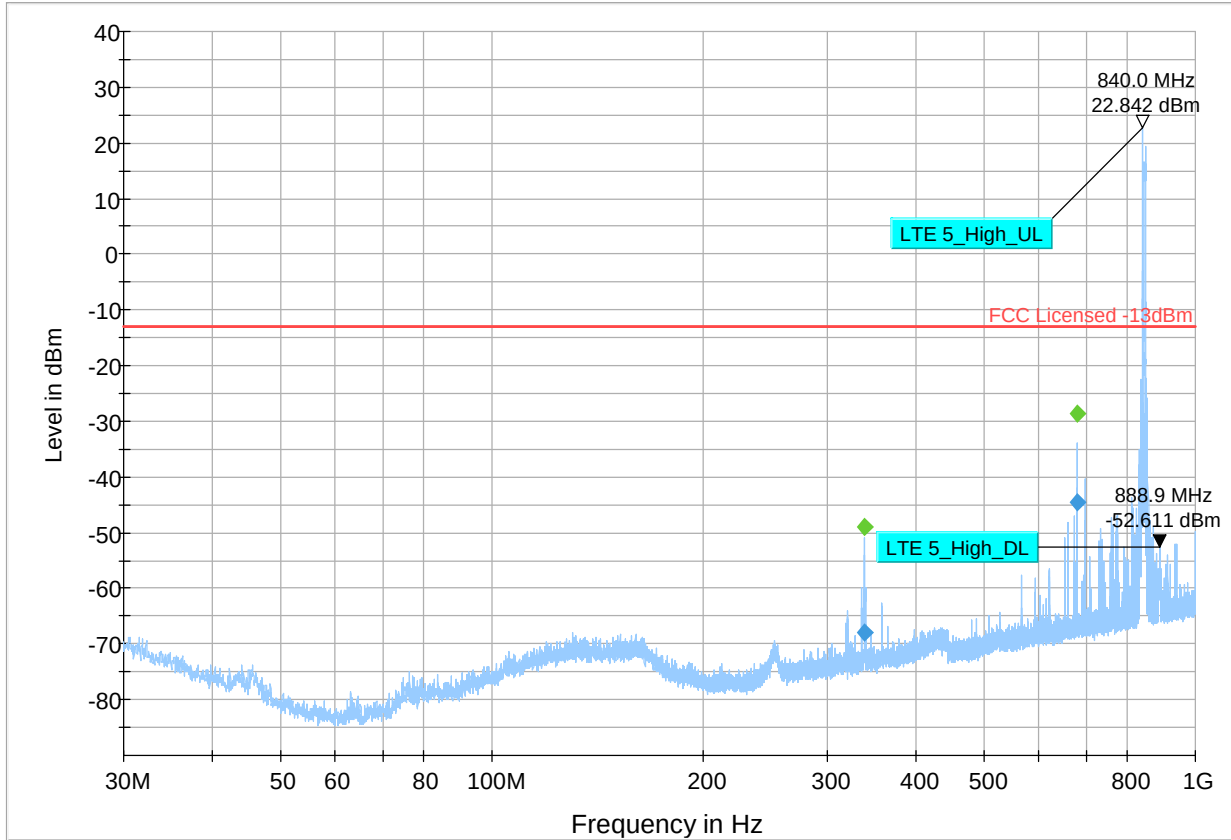
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
3362.250	---	-41.78	---	---	500.0	1000.000	300.0	V	136.0	-	
3362.250	-61.72	---	-13.00	48.72	500.0	1000.000	300.0	V	136.0	-	



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 29

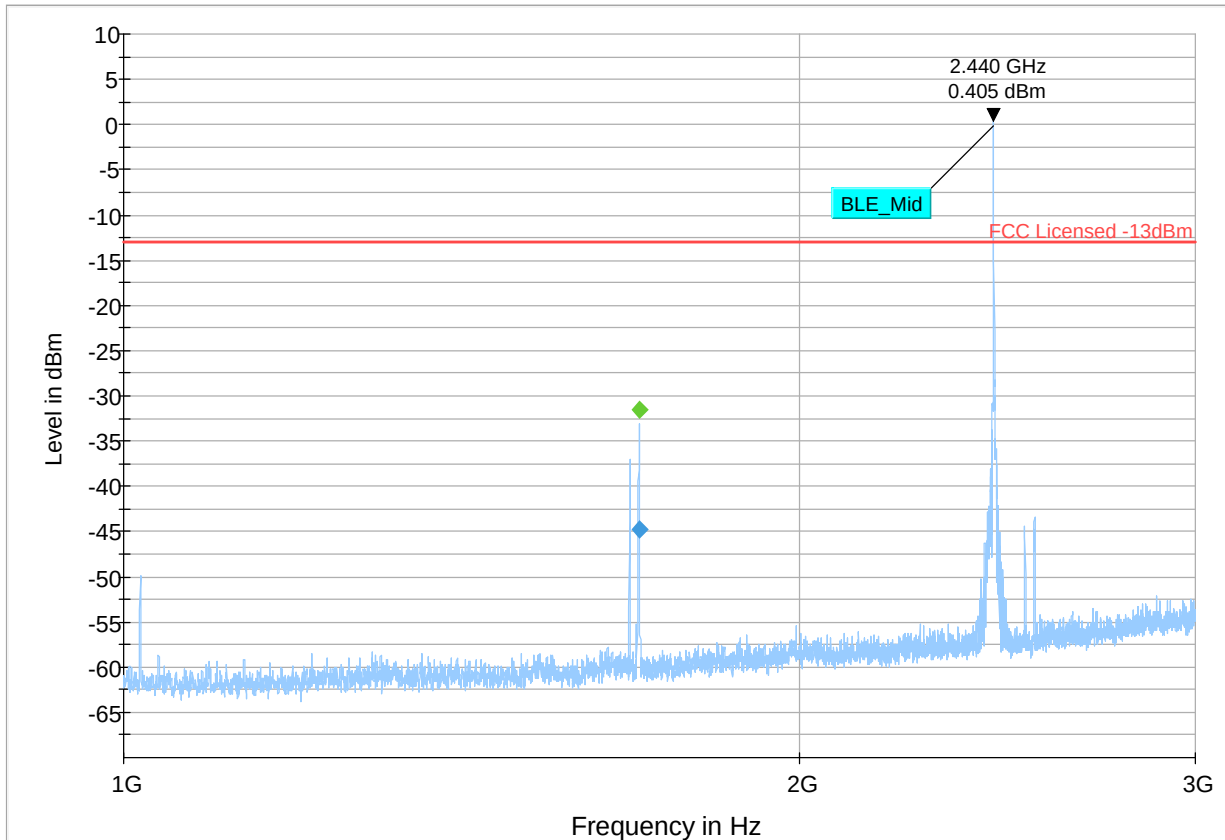
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
339.074	---	-48.99	---	---	500.0	100.000	107.0	H	168.0	-79.1	
339.074	-67.97	---	-13.00	54.97	500.0	100.000	107.0	H	168.0	-79.1	
678.219	---	-28.52	---	---	500.0	100.000	142.0	H	170.0	-72.6	
678.219	-44.46	---	-13.00	31.46	500.0	100.000	142.0	H	170.0	-72.6	



— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS ◆ Final_Result PK

Plot # 30

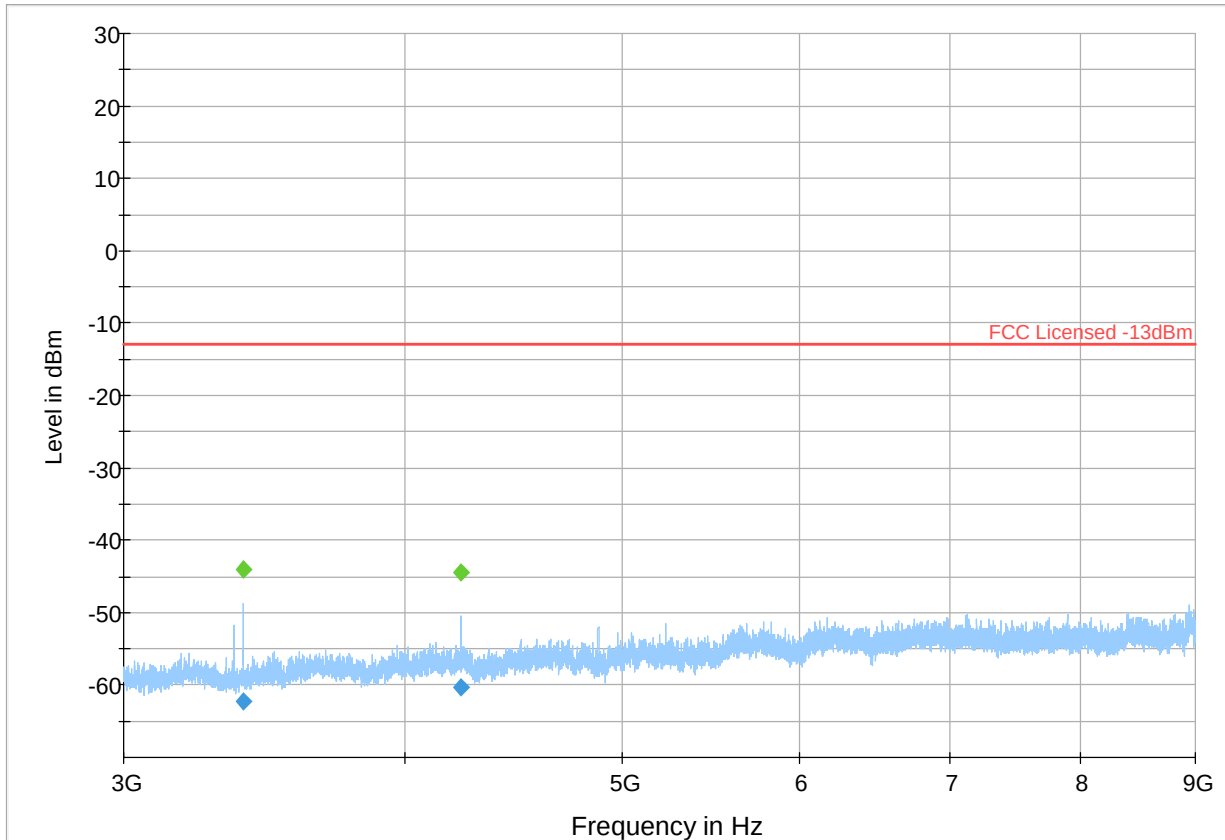
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
1696.000	---	-31.52	---	---	500.0	1000.000	125.0	H	292.0	-91.3	
1696.000	-44.71	---	-13.00	31.71	500.0	1000.000	125.0	H	292.0	-91.3	



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 31

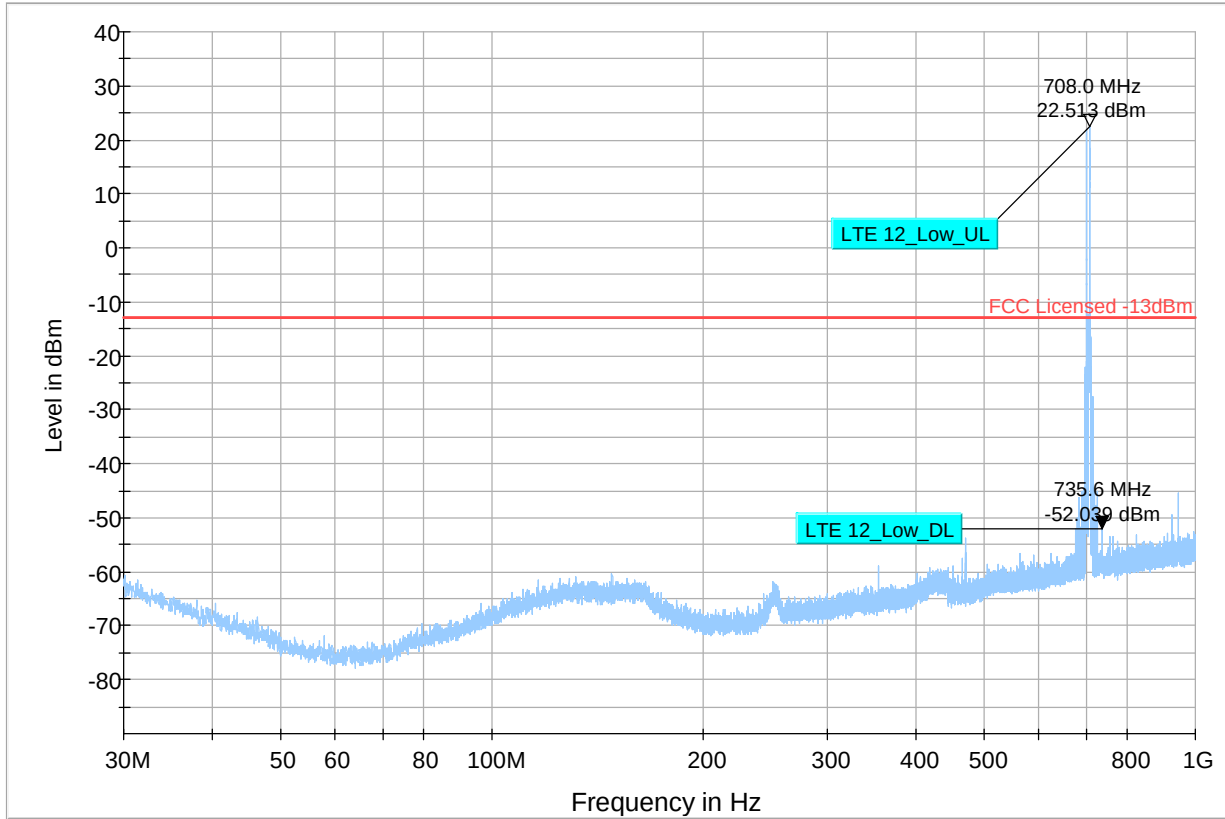
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
3391.750	---	-44.08	---	---	500.0	1000.000	167.0	H	301.0	-	
3391.750	-62.32	---	-13.00	49.32	500.0	1000.000	167.0	H	301.0	-	
4240.250	---	-44.53	---	---	500.0	1000.000	207.0	V	222.0	-98.9	
4240.250	-60.37	---	-13.00	47.37	500.0	1000.000	207.0	V	222.0	-98.9	



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 32

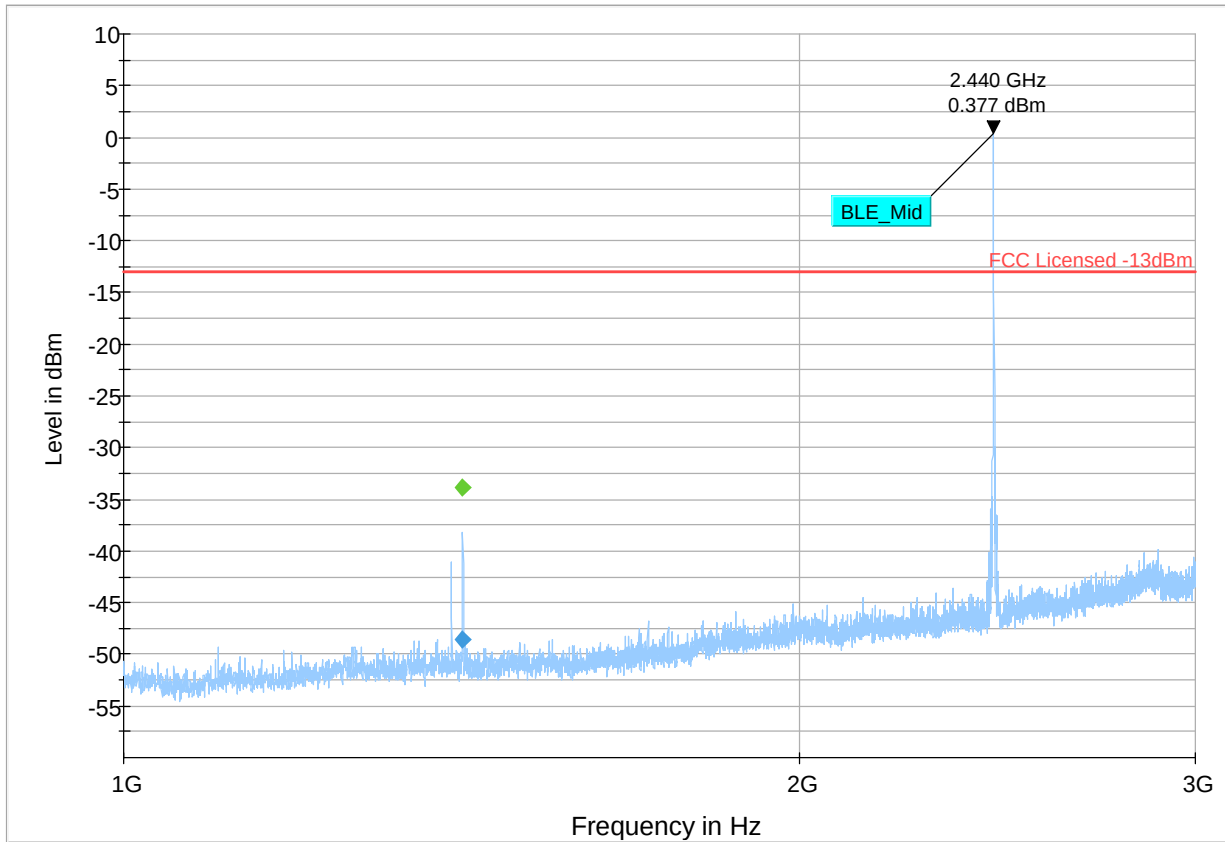
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---	---	---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+

Plot # 33

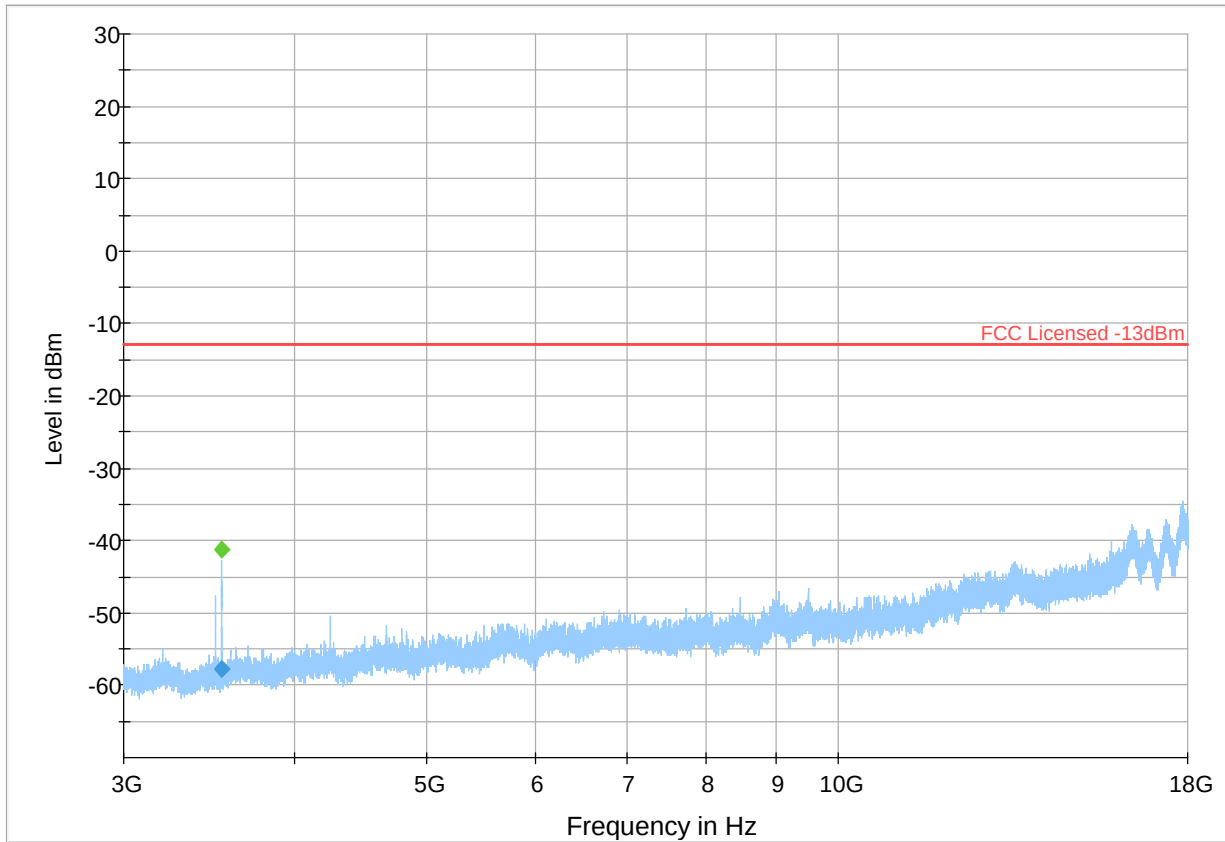
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1416.000	---	-33.91	---	---	500.0	1000.000	171.0	H	56.0	-66.7
1416.000	-48.62	---	-13.00	35.62	500.0	1000.000	171.0	H	56.0	-66.7



Preview Result 1-PK+ FCC Licensed -13dBm ◆ Final_Result RMS ◆ Final_Result PK

Plot # 34

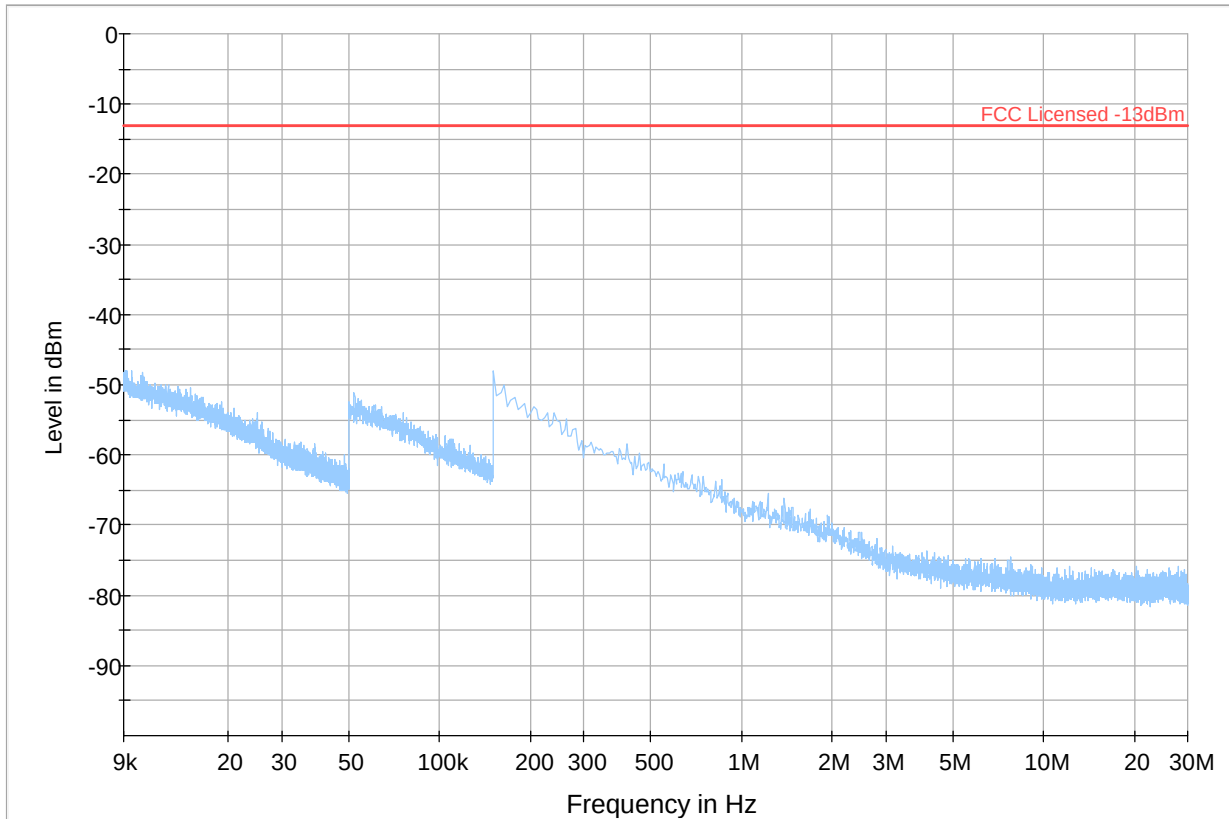
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3540.000	---	-41.17	---	---	500.0	1000.000	199.0	H	35.0	-102.1
3540.000	-57.67	---	-13.00	44.67	500.0	1000.000	199.0	H	35.0	-102.1



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

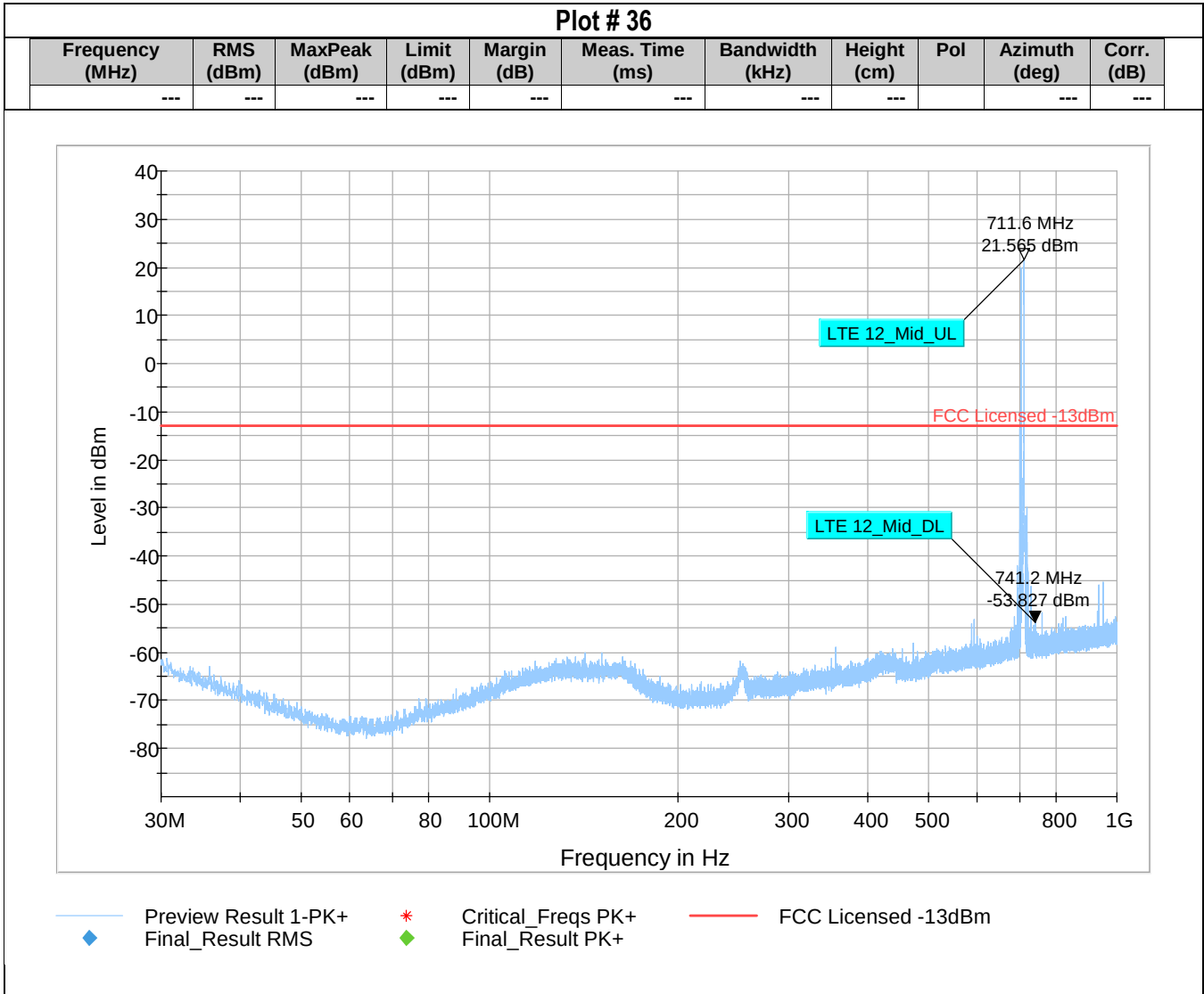
Plot # 35

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



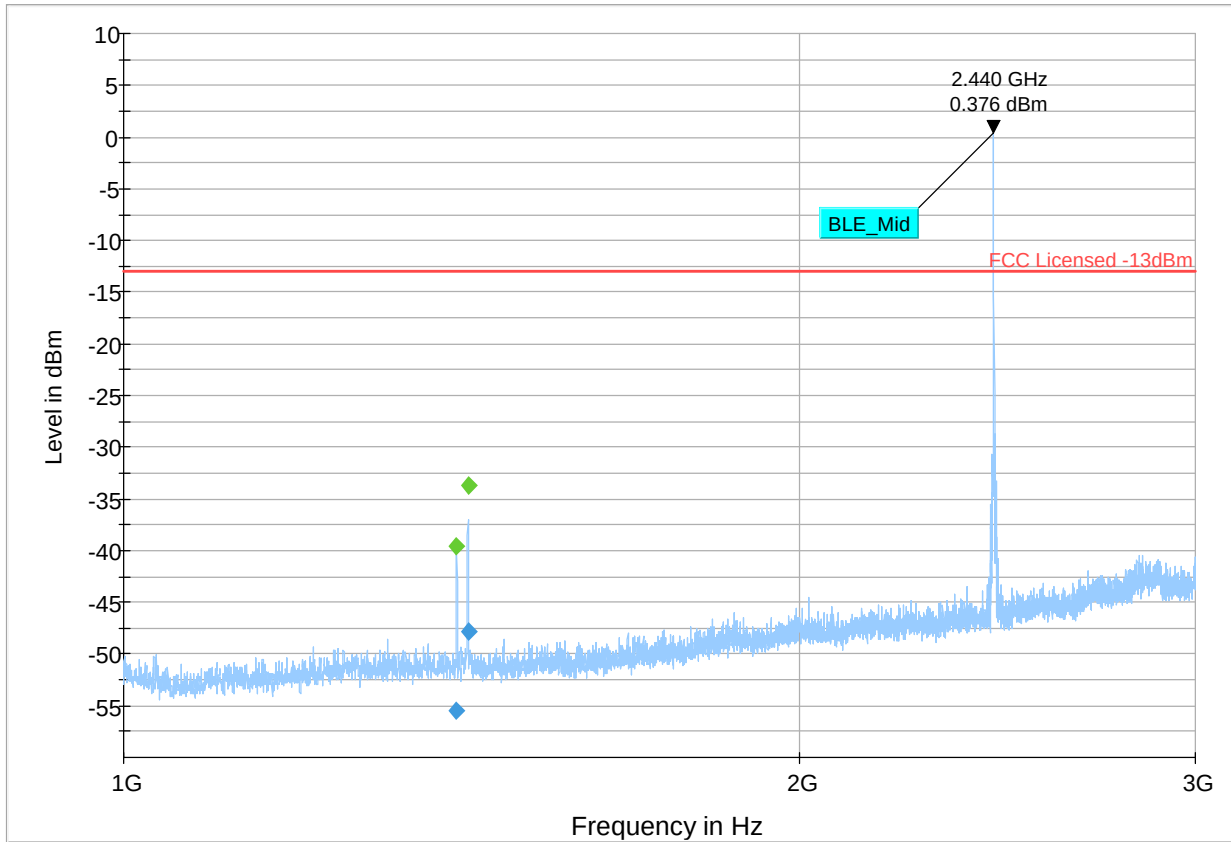
◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+

Plot # 36



Plot # 37

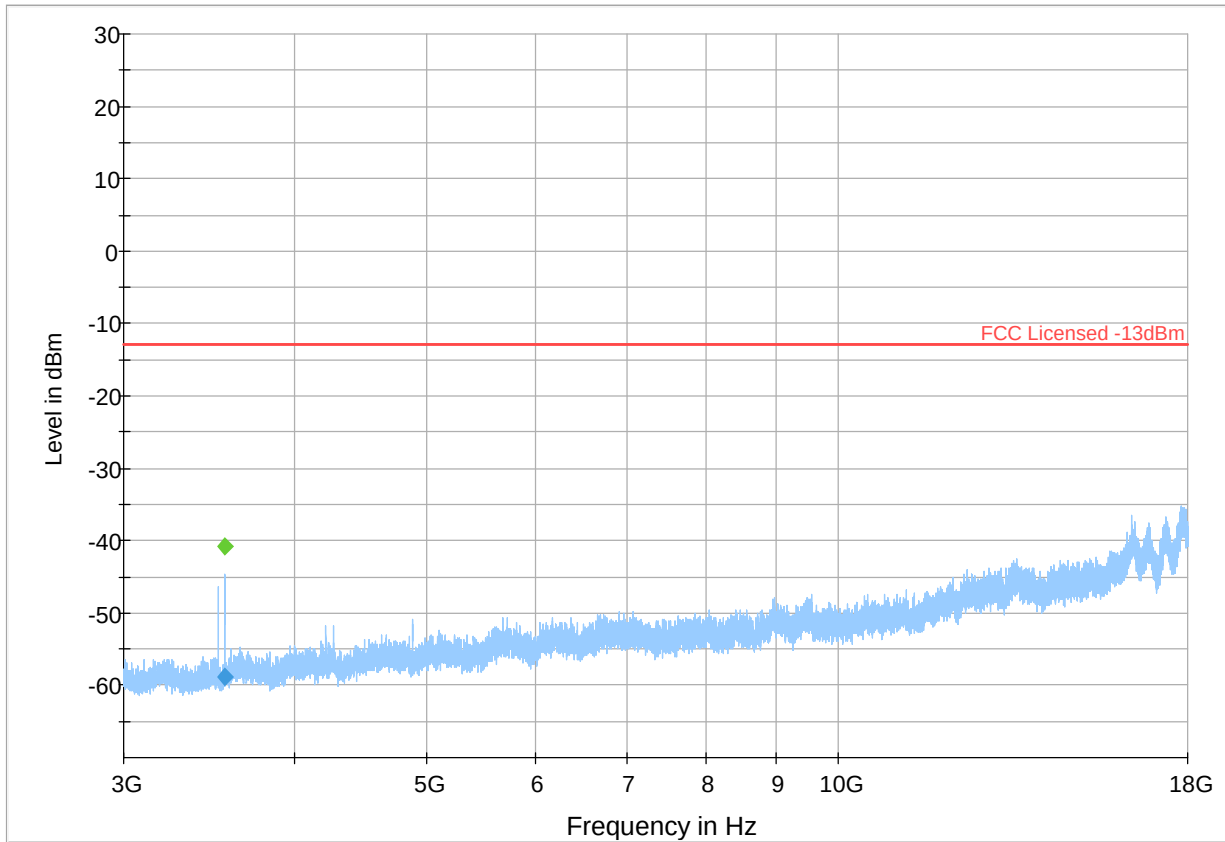
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1406.750	---	-39.61	---	---	500.0	1000.000	175.0	H	228.0	-66.7
1406.750	-55.45	---	-13.00	42.45	500.0	1000.000	175.0	H	228.0	-66.7
1423.000	---	-33.67	---	---	500.0	1000.000	321.0	H	263.0	-66.7
1423.000	-47.79	---	-13.00	34.79	500.0	1000.000	321.0	H	263.0	-66.7



— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK

Plot # 38

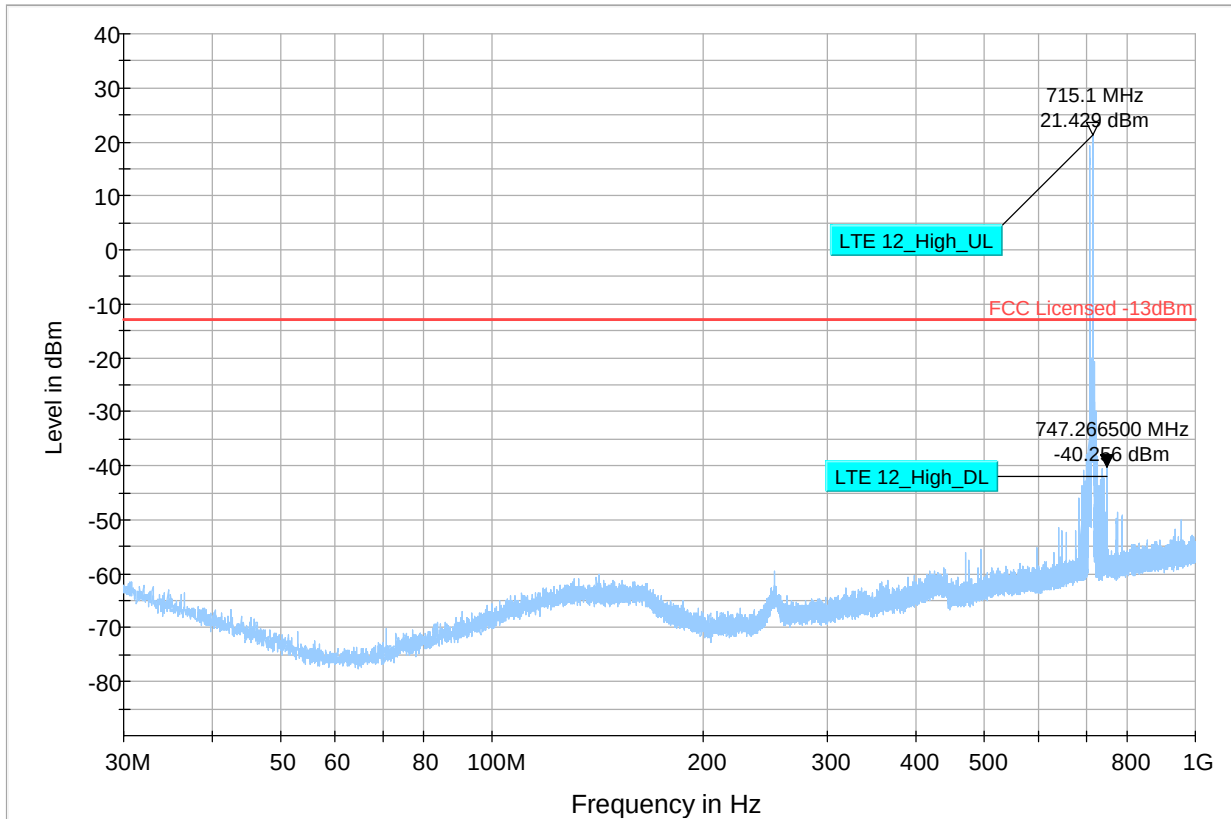
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3555.000	---	-40.73	---	---	500.0	1000.000	226.0	H	303.0	-101.9
3555.000	-58.76	---	-13.00	45.76	500.0	1000.000	226.0	H	303.0	-101.9



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 39

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---

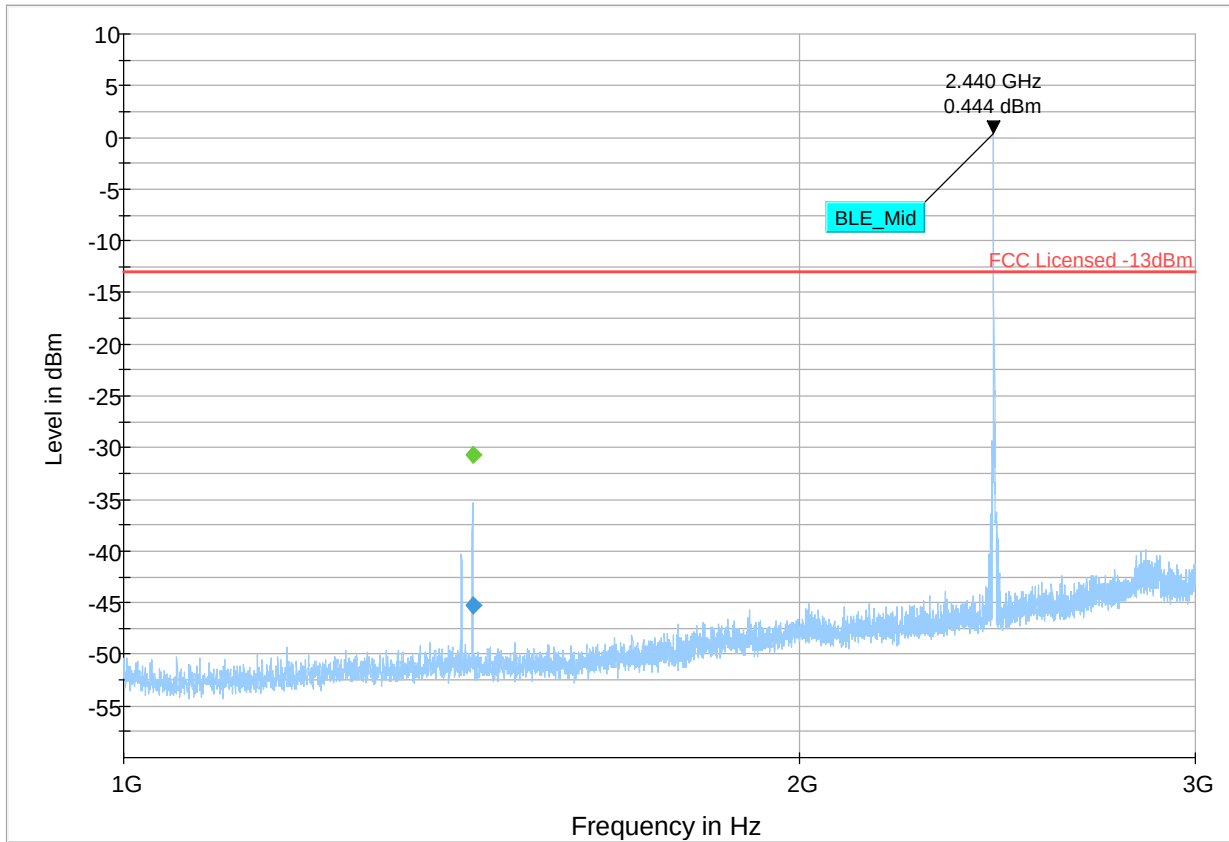


◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm

◆ Final_Result PK+

Plot # 40

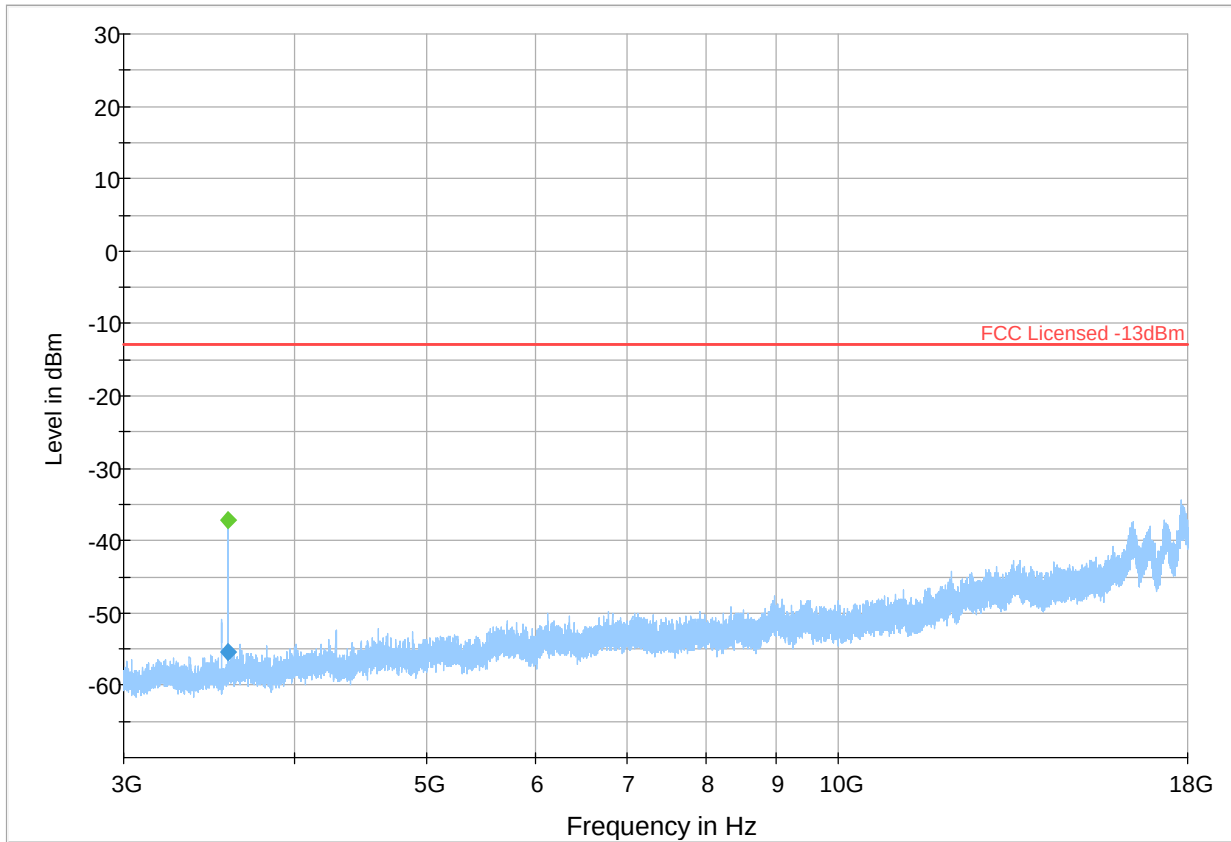
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1430.000	---	-30.78	---	---	500.0	1000.000	100.0	H	79.0	-66.7
1430.000	-45.27	---	-13.00	32.27	500.0	1000.000	100.0	H	79.0	-66.7



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 41

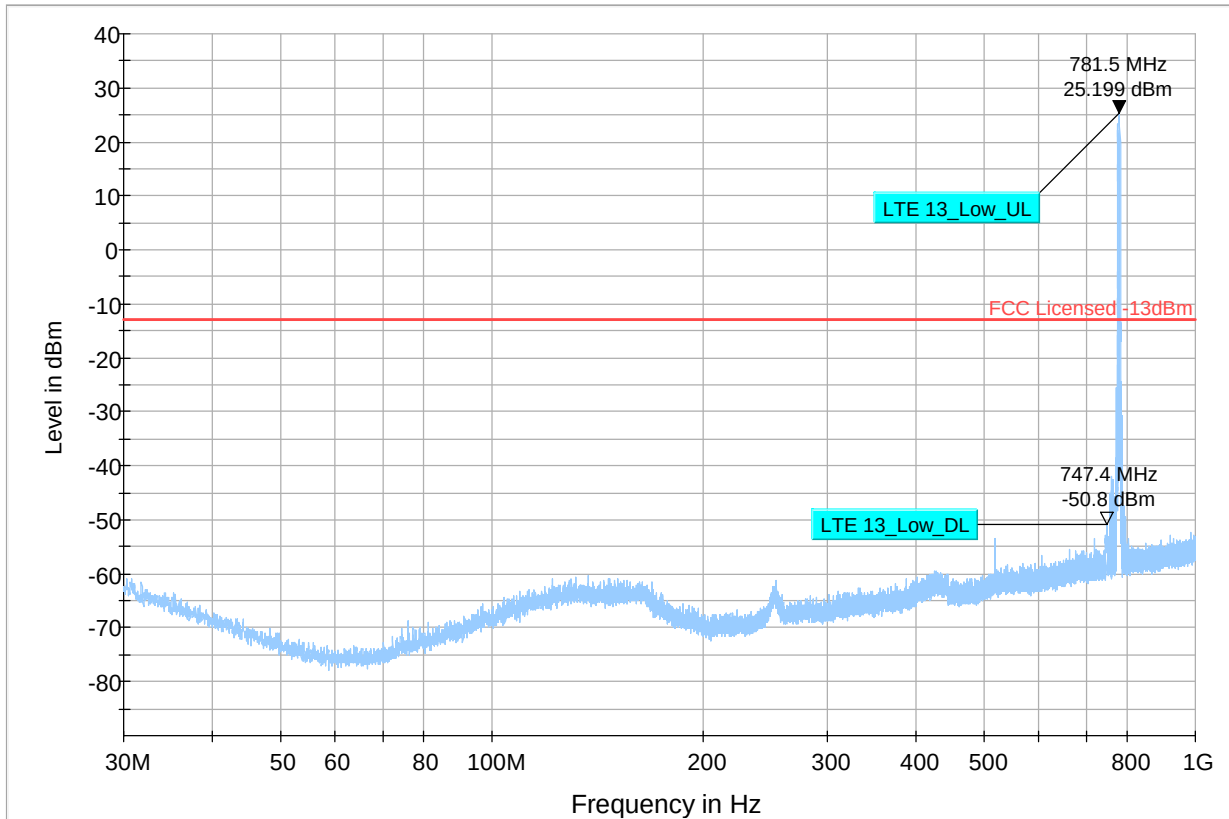
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3574.750	---	-37.24	---	---	500.0	1000.000	124.0	V	33.0	-101.6
3574.750	-55.43	---	-13.00	42.43	500.0	1000.000	124.0	V	33.0	-101.6



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 42

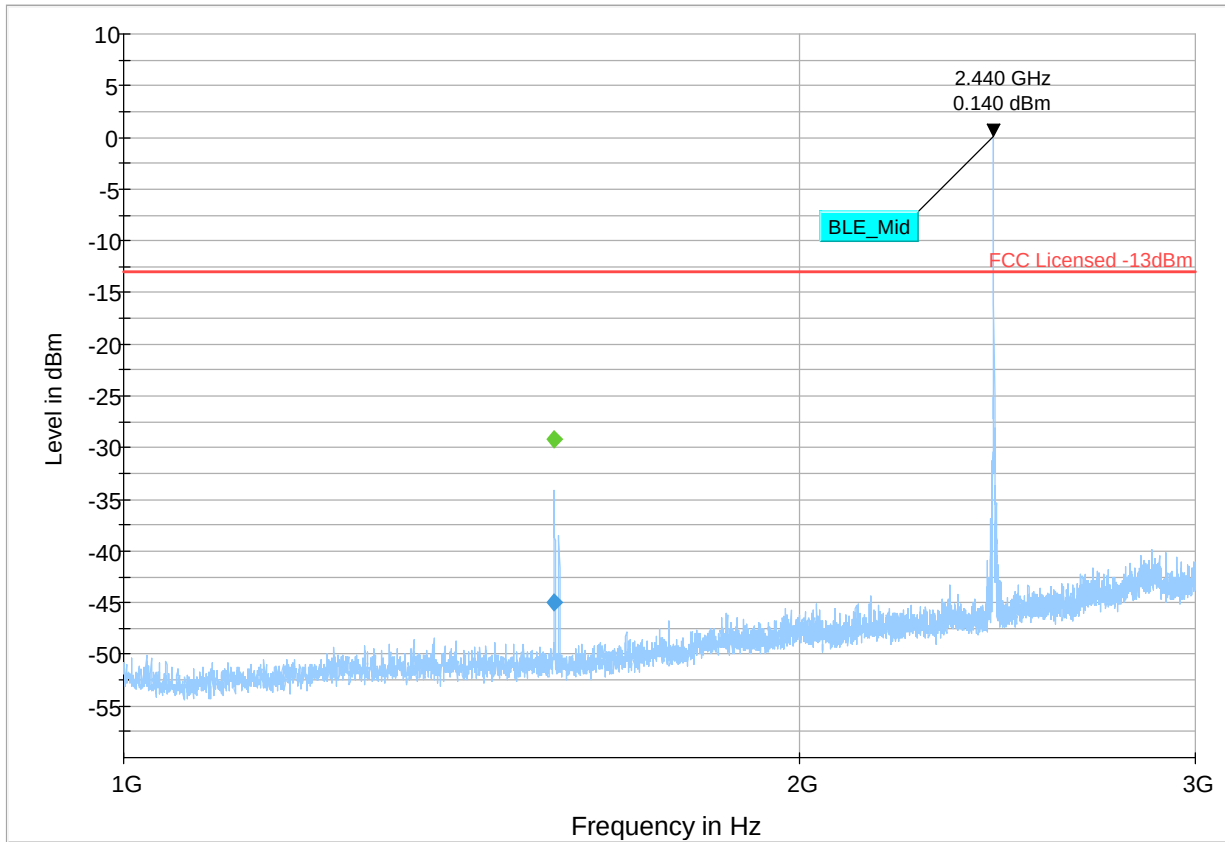
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---	---	---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+

Plot # 43

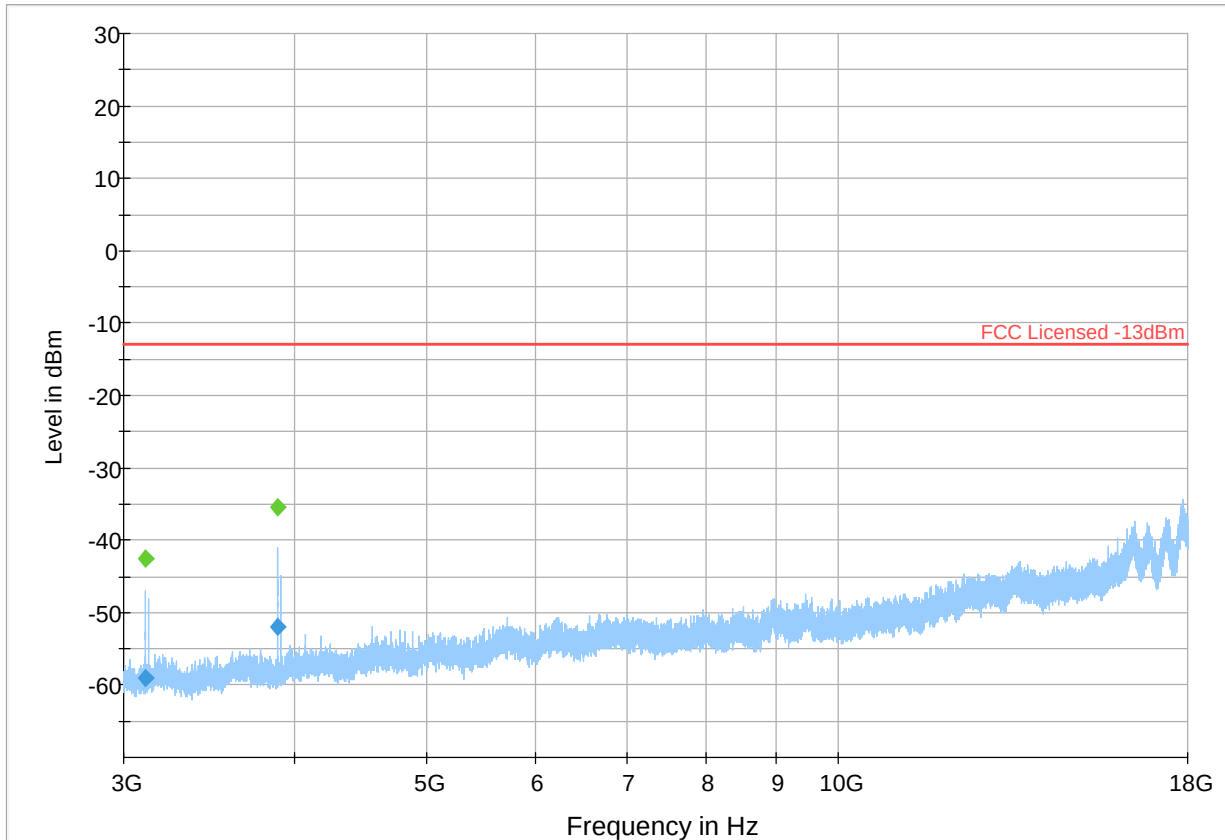
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1555.000	---	-29.24	---	---	500.0	1000.000	125.0	H	305.0	-66.0
1555.000	-44.96	---	-13.00	31.96	500.0	1000.000	125.0	H	305.0	-66.0



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

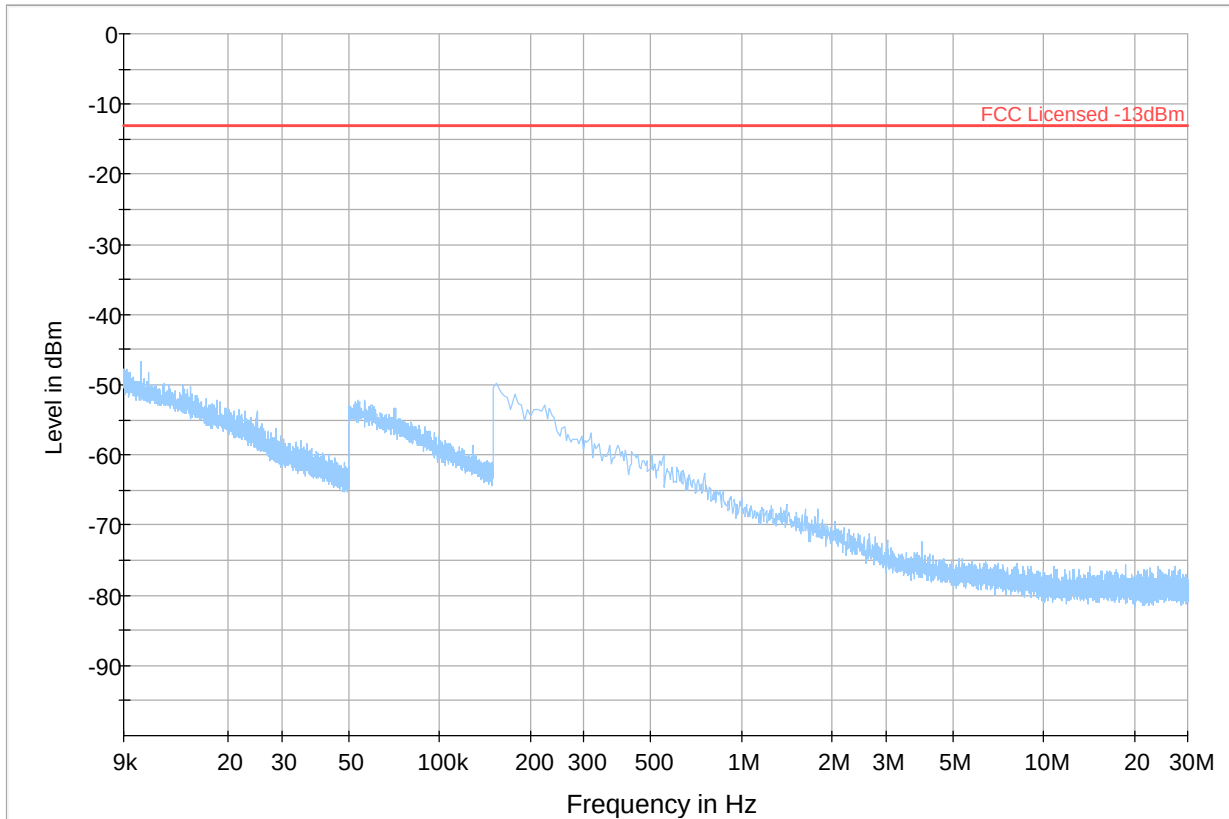
Plot # 44

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3110.000	---	-42.43	---	---	500.0	1000.000	183.0	V	132.0	-103.4
3110.000	-59.14	---	-13.00	46.14	500.0	1000.000	183.0	V	132.0	-103.4
3887.250	---	-35.51	---	---	500.0	1000.000	142.0	V	334.0	-101.0
3887.250	-51.95	---	-13.00	38.95	500.0	1000.000	142.0	V	334.0	-101.0



Plot # 45

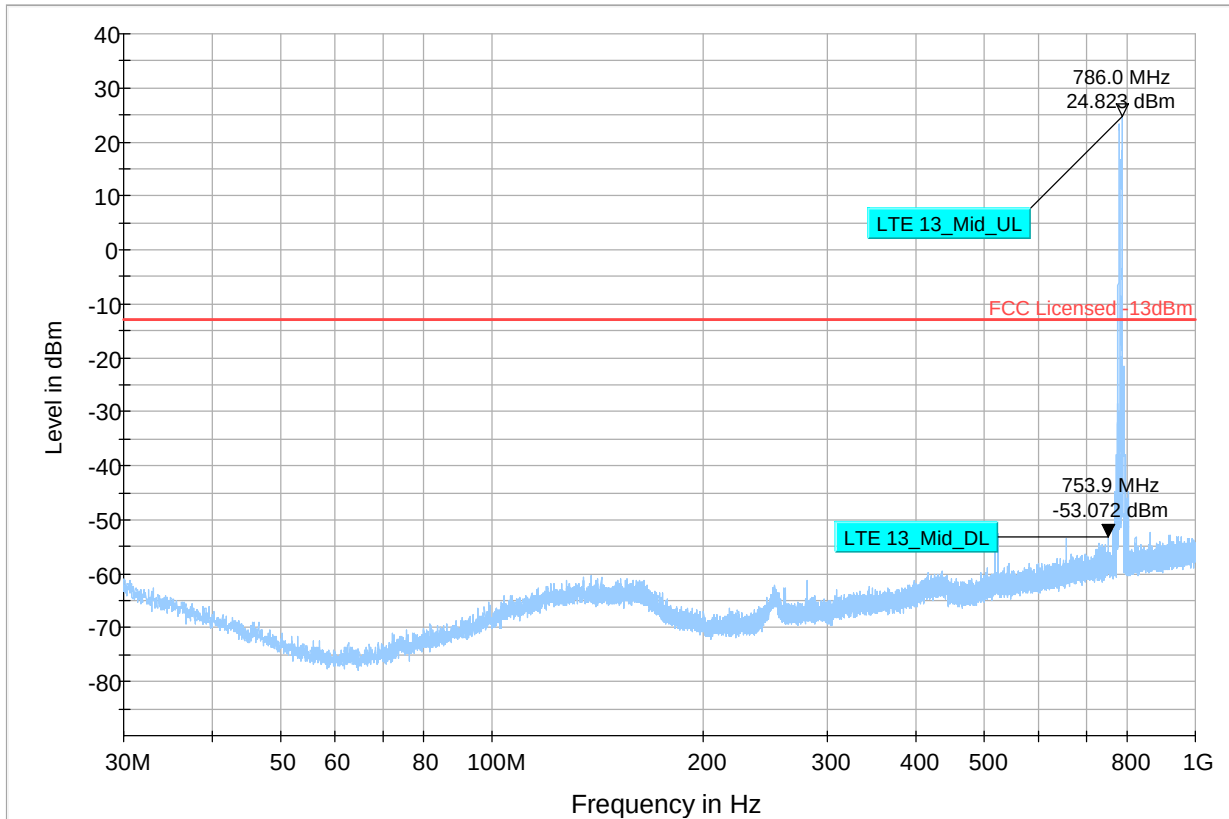
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+

Plot # 46

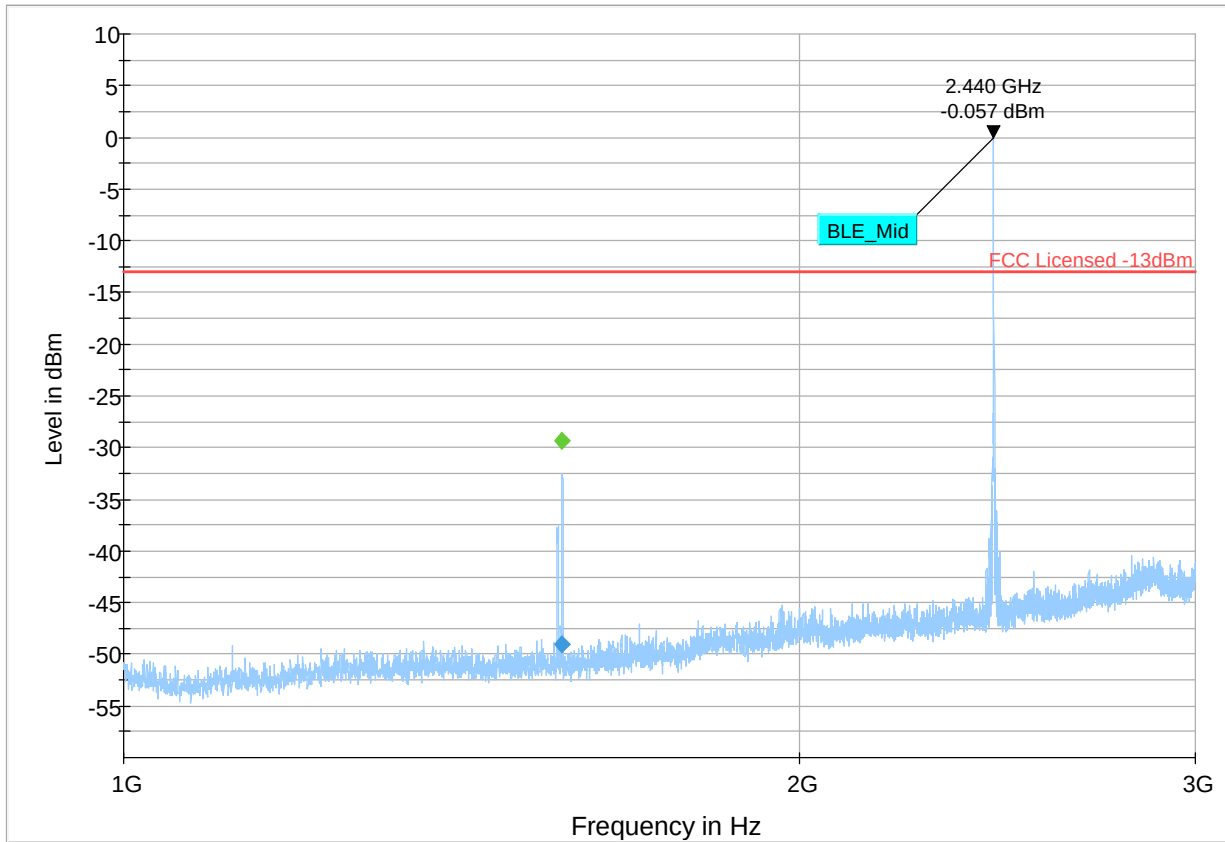
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---		---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result PK+

Plot # 47

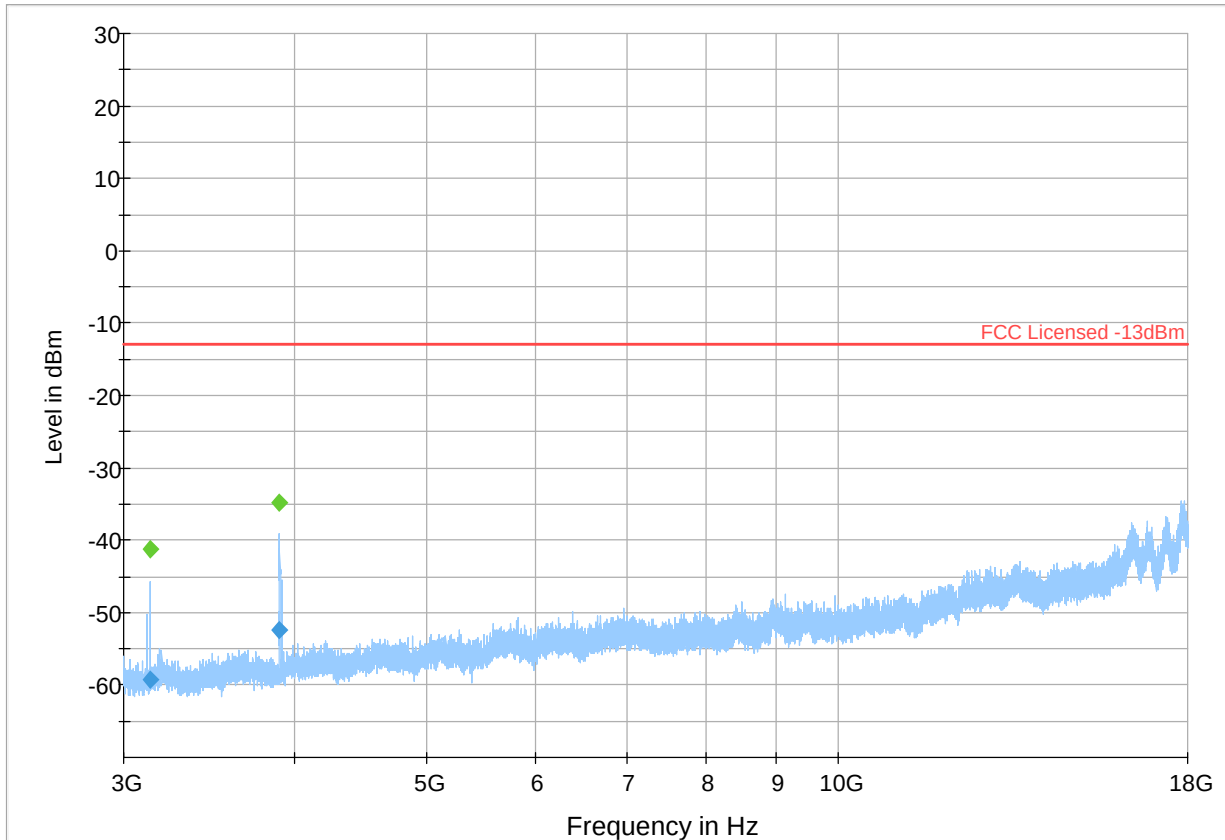
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1567.750	---	-29.32	---	---	500.0	1000.000	158.0	H	92.0	-66.0
1567.750	-49.01	---	-13.00	36.01	500.0	1000.000	158.0	H	92.0	-66.0



— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK

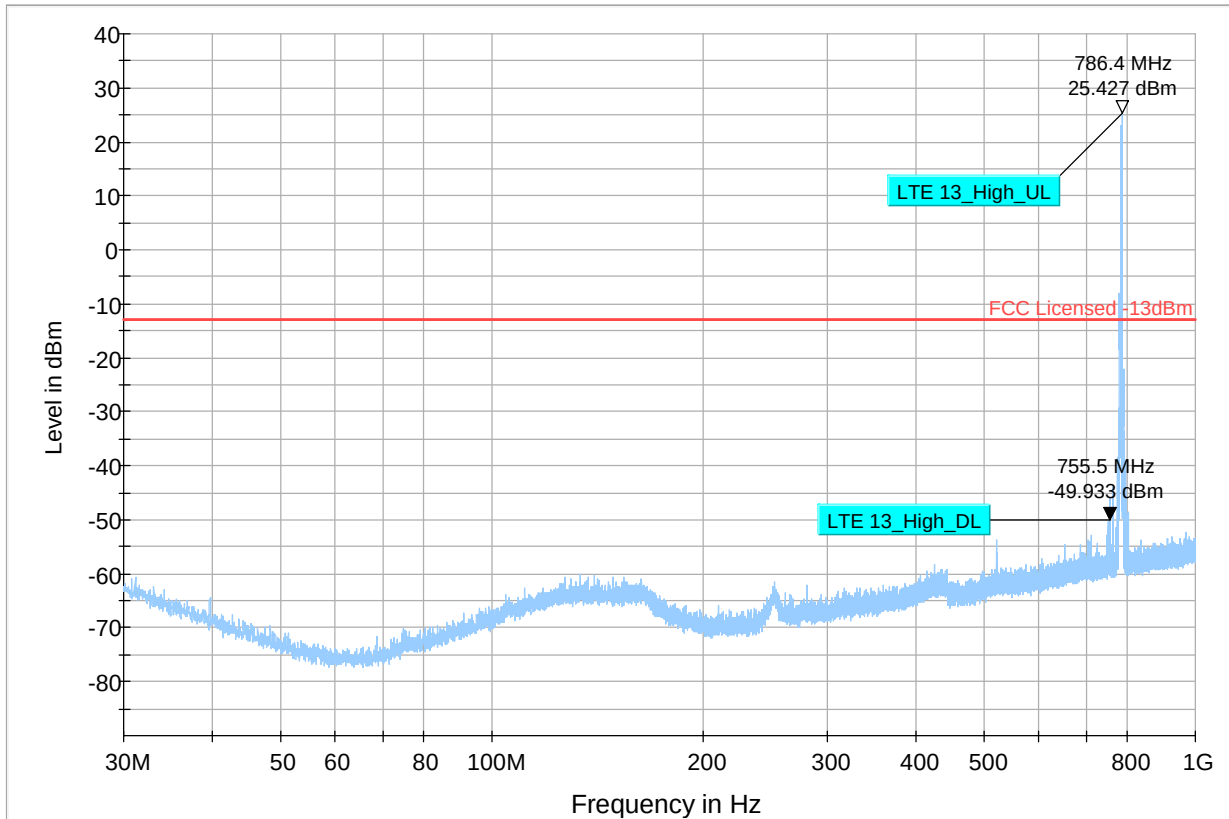
Plot # 48

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3135.750	---	-41.25	---	---	500.0	1000.000	100.0	V	122.0	-103.2
3135.750	-59.36	---	-13.00	46.36	500.0	1000.000	100.0	V	122.0	-103.2
3899.750	---	-34.78	---	---	500.0	1000.000	117.0	V	333.0	-100.9
3899.750	-52.45	---	-13.00	39.45	500.0	1000.000	117.0	V	333.0	-100.9



Plot # 49

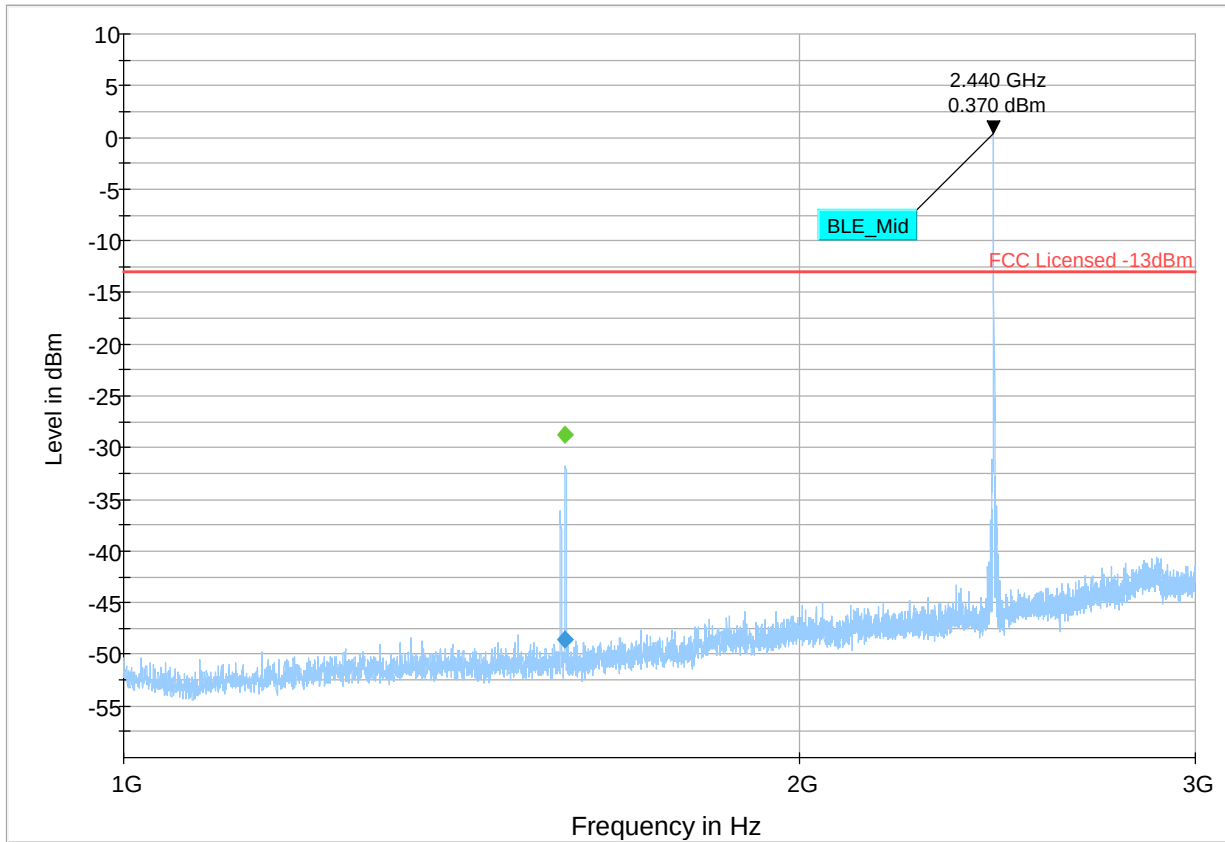
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
---	---	---	---	---	---	---	---	---	---	---



◆ Preview Result 1-PK+ Final_Result RMS
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
◆ Final_Result PK+

Plot # 50

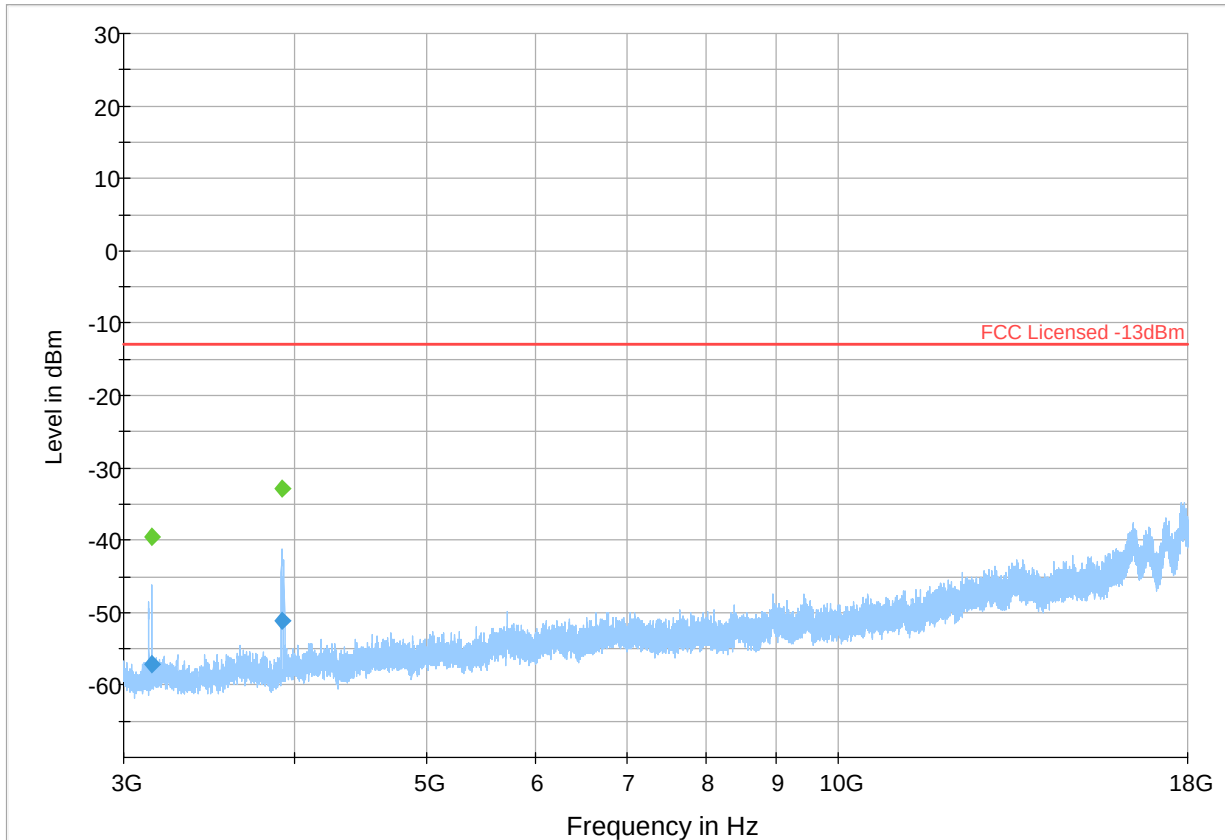
Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1572.750	---	-28.73	---	---	500.0	1000.000	158.0	H	75.0	-66.0
1572.750	-48.57	---	-13.00	35.57	500.0	1000.000	158.0	H	75.0	-66.0



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

Plot # 51

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3146.000	---	-39.48	---	---	500.0	1000.000	259.0	V	126.0	-103.0
3146.000	-57.19	---	-13.00	44.19	500.0	1000.000	259.0	V	126.0	-103.0
3913.250	---	-32.86	---	---	500.0	1000.000	100.0	V	335.0	-100.8
3913.250	-51.04	---	-13.00	38.04	500.0	1000.000	100.0	V	335.0	-100.8



Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK

8 Test setup photos

Setup photos are included in supporting file name: "EMC_PHIL4-100-21001_FCC_22_24_27_Setup_Photos.pdf"

9 Test Equipment And Ancillaries Used For Testing

Equipment Name/Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
Biconilog Antenna	ETS Lindgren	3142E	166067	3 years	03/20/2020
Horn Antenna	ETS Lindgren	3115	35114	3 years	10/10/2020
Horn Antenna	ETS Lindgren	3117-PA	215984	3 years	08/08/2020
Active Loop Antenna	ETS Lindgren	6507	161344	3 years	10/30/2020
Horn Antenna	ETS Lindgren	3116C	70497	3 years	11/23/2020
Spectrum Analyzer	R&S	ESU40	100251	3 years	07/16/2019
Spectrum Analyzer	R&S	FSU26	200065	3 years	07/03/2020
Radio Communication Analyzer	Anritsu	MT8821C	6262170438	3 years	08/21/2020
Thermometer Humidity Monitor	Dickson	TM320	5280063	3 years	11/02/2020

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels.

Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before use.

10 Revision History

Date	Report Name	Changes to report	Prepared by
2021-08-18	EMC_PHIL4-100-21001_FCC_22_24_27	Initial Version	Cheng Song

<<< The End >>>