



FCC / ISED & Test Report

For:
Telular AMETEK

Model:
SHB6510

Product Description:
Asset tracking.

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

FCC ID: MTFSHB6510
IC ID: 2175D-SHB6510

REPORT #: EMC_TELUL-101-21001_FCC_24_27

DATE: 2022-01-12



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: contact@cetecom.com ♦ <http://www.cetecom.com>

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



TABLE OF CONTENTS

1 ASSESSMENT.....3

2 ADMINISTRATIVE DATA4

2.1 IDENTIFICATION OF THE TESTING LABORATORY ISSUING THE EMC TEST REPORT4

2.2 IDENTIFICATION OF THE CLIENT4

2.3 IDENTIFICATION OF THE MANUFACTURER.....4

3 EQUIPMENT UNDER TEST (EUT).....5

3.1 EUT SPECIFICATIONS5

3.2 EUT SAMPLE DETAILS6

3.3 ACCESSORY EQUIPMENT (AE) DETAILS.....6

3.4 TEST SAMPLE CONFIGURATION6

4 SUBJECT OF INVESTIGATION7

4.1 DATES OF TESTING:7

4.2 MEASUREMENT UNCERTAINTY7

4.3 ENVIRONMENTAL CONDITIONS DURING TESTING:7

5 MEASUREMENT PROCEDURES8

5.1 RADIATED MEASUREMENT.....8

5.2 SAMPLE CALCULATIONS FOR FIELD STRENGTH MEASUREMENTS10

6 MEASUREMENT RESULTS SUMMARY11

6.1 PART 24 / RSS-13311

6.2 FCC 27 / RSS-13911

7 TEST RESULT DATA12

7.1 RADIATED SPURIOUS EMISSIONS.....12

8 TEST SETUP PHOTOS45

9 TEST EQUIPMENT AND ANCILLARIES USED FOR TESTING45

10 REVISION HISTORY46



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 24 and 27, and Industry Canada Standards RSS-GEN issue 5, RSS-133 issue 6 and RSS 139 Issue 3.

No deficiencies were ascertained.

Company Name	Product Description	Model #
Telular AMETEK	Asset tracking	SHB6510

Responsible for Testing Laboratory:

2022-01-12	Compliance	Kevin Wang (EMC Lab Manager)	
Date	Section	Name	Signature

Responsible for the Report:

2022-01-12	Compliance	Cheng Song (EMC Engineer)	
Date	Section	Name	Signature

The test results of this test report relate exclusively to the test item specified in Section 3. 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:	Telular AMETEK
Street Address:	3225 Cumberland Blvd, Suite 300
City/Zip Code	Atlanta, GA, 30339
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:	SHB6510
HW Version :	A
SW Version :	EM.00.01.1096,BM.00.01.0061,CM.00.01.1026
FCC-ID :	MTFSHB6510
IC-ID:	2175D-SHB6510
PMN:	Kinnect
Product Description:	Asset tracking.
Radio Information:	<p>Cellular:</p> <ul style="list-style-type: none"> • Module: Telit ME910G1-W1 (CAT-M1 only) • FCC ID: RI7ME910G1W1, IC ID: 5131A-ME910G1W1 • Bands: LTE 1, 2, 3, 4, 5, 8, 12, 13, 18, 19, 20, 25, 26, 27, 28, 66, 71, 75 <p>Bluetooth:</p> <ul style="list-style-type: none"> • Module: Laird BL654 (Bluetooth 5 LE) • FCC ID: SQGBL654, IC ID: 3147A-BL654 <p>ISM:</p> <ul style="list-style-type: none"> • Module: EFR32FG1P131F256GM32-C0 • Operating Frequency: 902-928 MHz <p>GPS / GNSS:</p> <ul style="list-style-type: none"> • Module: Quectel GNSS L86
Antenna Information:	<p>Cellular:</p> <ul style="list-style-type: none"> • Type: PCB Trace • Max Gain: LTE 2 (4.4 dBi), LTE 4 (4.4 dBi), LTE 12 (2.6 dBi) <p>Bluetooth:</p> <ul style="list-style-type: none"> • Type: PCB Trace • Max Gain: 0 dBi <p>ISM:</p> <ul style="list-style-type: none"> • Type: Pulse W3113, small helica • Max Gain: 0.8 dBi
Power Supply/ Rated Operating Voltage Range:	Battery Vmin: 6 VDC/ Vnom: 7 VDC / Vmax: 8.2 VDC
Operating Temperature Range	-40 °C to 70 °C
Sample Revision	<input type="checkbox"/> Prototype Unit; <input checked="" type="checkbox"/> Production Unit; <input type="checkbox"/> Pre-Production



3.2 EUT Sample details

EUT #	Serial Number	HW Version	SW Version	Comments
1	SHB7ACHI213600010	A	EM.00.01.1096,BM.00.01.0061,CM.00.01.1026	Radiated Emissions

3.3 Accessory Equipment (AE) details

AE #	Type
1	Communication Cable

3.4 Test Sample Configuration

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



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 24, 27 and ISED Standards RSS-133 issue 6, and RSS-139 issue 3.

4.1 **Dates of Testing:**

11/15/2021 -11/30/2021

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.

Measurement System	EMC 1	EMC 2
Conducted Emissions (mains port)	1.12 dB	0.46 dB
Radiated Emissions (<30 MHz)	3.66 dB	3.88 dB
(30 MHz – 1 GHz)	3.17 dB	3.34 dB
(1 GHz – 3 GHz)	5.01 dB	4.45 dB
(> 3 GHz)	4.0 dB	4.79 dB

RF conducted measurement ±0.5 dB

4.3 **Environmental Conditions during Testing:**

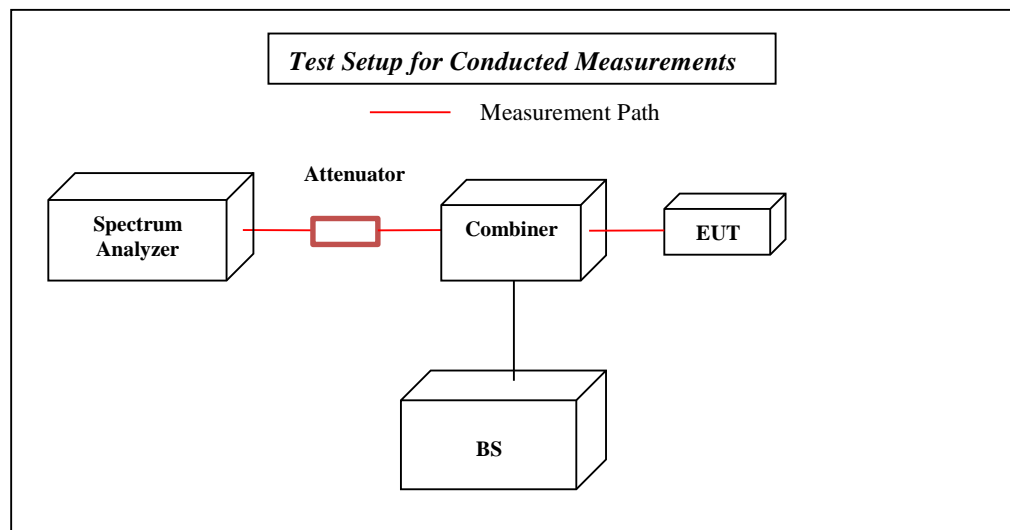
The following environmental conditions were maintained during the course of testing:

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

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

5 Measurement Procedures

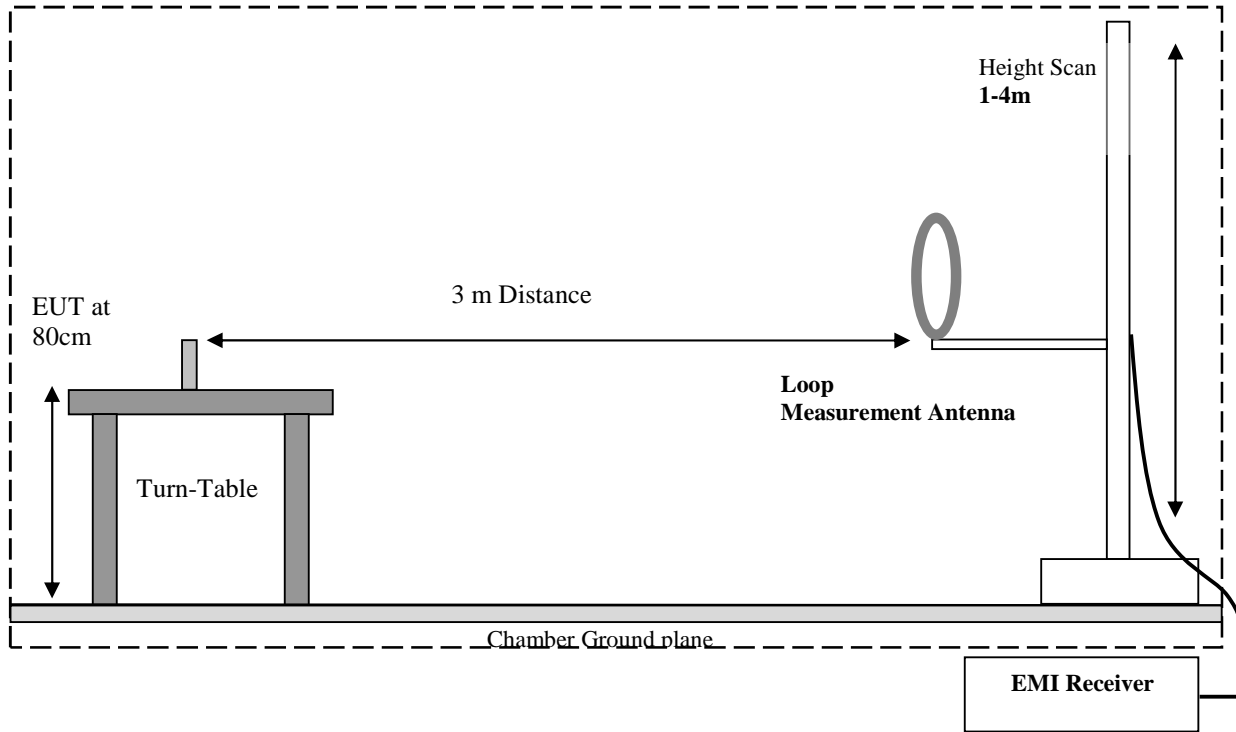
Testing is performed according to the guidelines provided in FCC publication (KDB) 971168 D01 v03r01 – “Measurement Guidance for Certification of Licensed Digital Transmitters” and according to relevant parts of ANSI/TIA-603-D-2010 as detailed below.



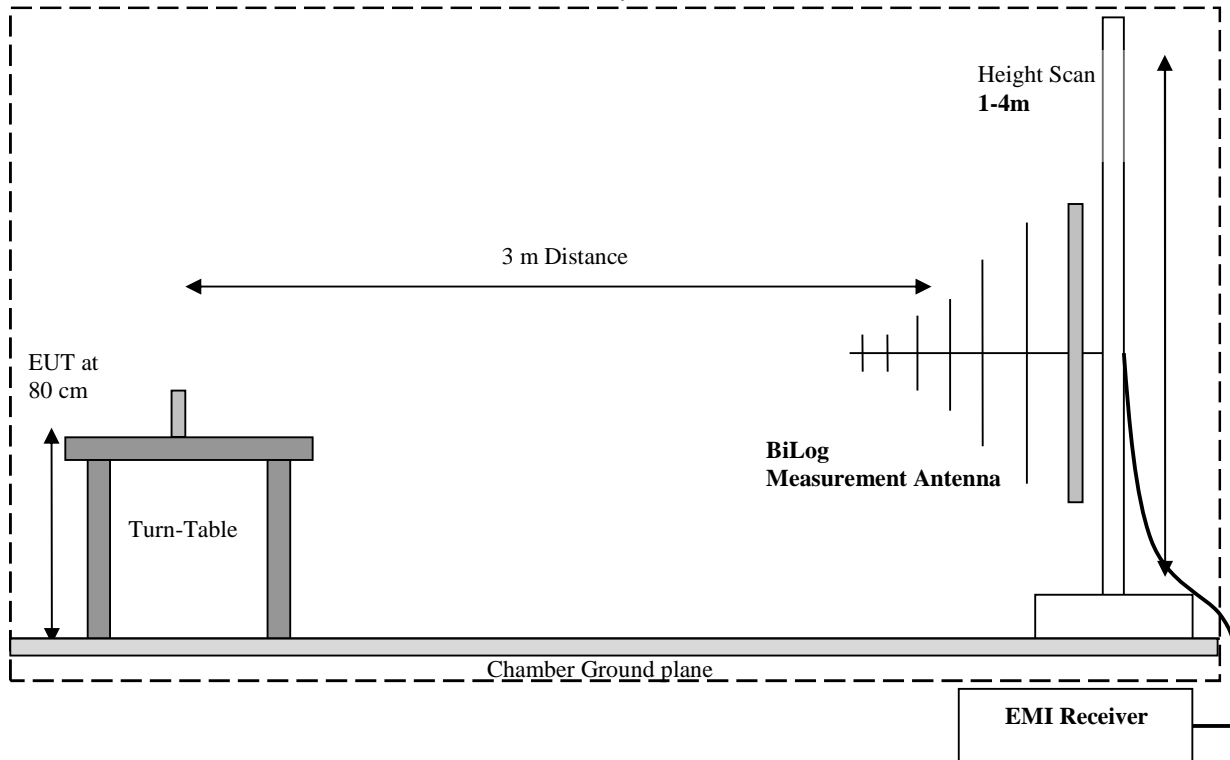
5.1 Radiated Measurement

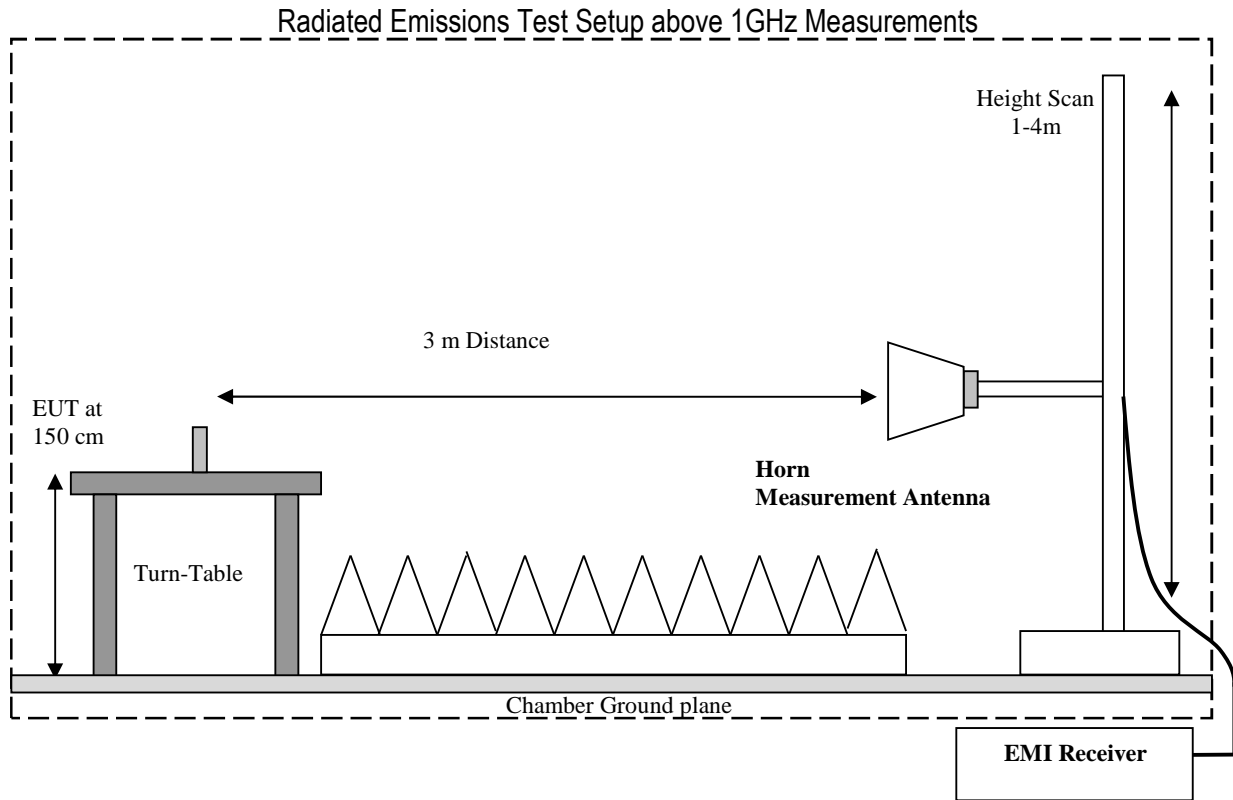
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to 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 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	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 3
§2.1055; §24.235	Frequency Stability	Extreme Temperature and Voltage	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 3
§2.1049; §24.238	Occupied Bandwidth	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 3
§2.1051; §24.238	Band Edge Compliance	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 3
§2.1051; §24.238	Conducted Spurious Emissions	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 2
§2.1053; §24.238	Radiated Spurious Emissions	Nominal	LTE 2 + BLE + ISM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complies

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

Note 2: Spurious emissions were evaluated with radiated measurement.

Note 3: Leveraged from module certification report under FCC ID: RI7ME910G1W1

6.2 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	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 3
§2.1055; §27.54	Frequency Stability	Extreme Temperature and Voltage	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 3
§2.1049; §27.53	Occupied Bandwidth	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 3
§2.1051; §27.53	Band Edge Compliance	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 3
§2.1051; §27.53	Conducted Spurious Emissions	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Note 2
§2.1053; §27.53	Radiated Spurious Emissions	Nominal	LTE 4 + BLE + ISM LTE 12 + BLE + ISM	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complies

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

Note 2: Spurious emissions were evaluated with radiated measurement.

Note 3: Leveraged from module certification report under FCC ID: RI7ME910G1W1



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:

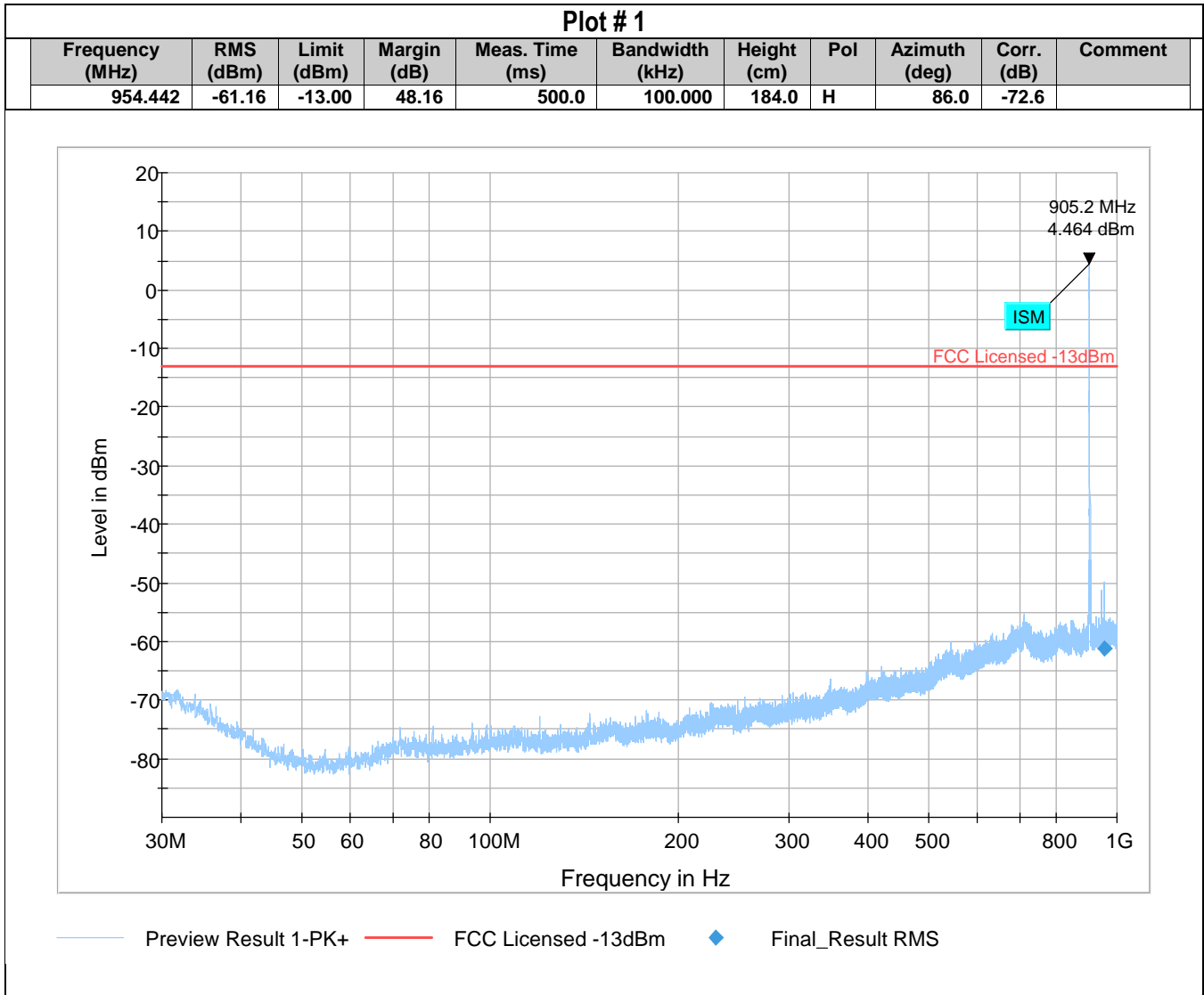
Ambient Temperature (C)	EUT Set-Up #	Power Input
22	1	Battery

7.1.4 Measurement result:

Plot #	Cellular Channel	EUT operating mode	Scan Frequency	Limit (dBm)	Result
1-3	Low	LTE 2 + BLE + ISM	30 MHz – 18 GHz	-13	Pass
4-8	Mid	LTE 2 + BLE + ISM	9 kHz – 26 GHz	-13	Pass
9-11	High	LTE 2 + BLE + ISM	30 MHz – 18 GHz	-13	Pass
12-14	Low	LTE 4 + BLE + ISM	30 MHz – 18 GHz	-13	Pass
15-18	Mid	LTE 4 + BLE + ISM	9 kHz – 18 GHz	-13	Pass
19-21	High	LTE 4 + BLE + ISM	30 MHz – 18 GHz	-13	Pass
22-24	Low	LTE 12 + BLE + ISM	30 MHz – 18 GHz	-13	Pass
25-28	Mid	LTE 12 + BLE + ISM	9 kHz – 18 GHz	-13	Pass
29-31	High	LTE 12 + BLE + ISM	30 MHz – 18 GHz	-13	Pass



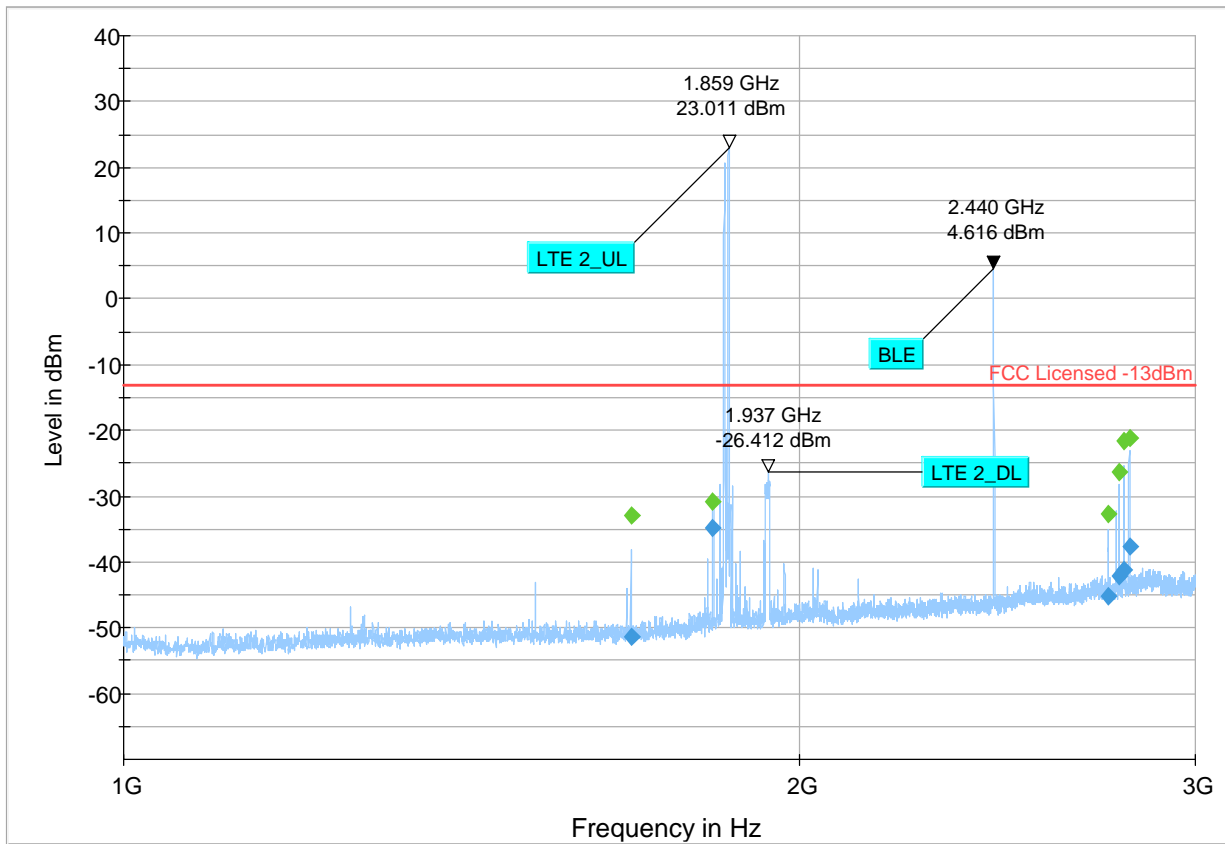
7.1.5 Measurement Plots:





Plot # 2

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1682.250	---	-33.03	---	---	500.0	1000.000	142.0	H	198.0	-65.4
1682.250	-51.38	---	-13.00	38.38	500.0	1000.000	142.0	H	198.0	-65.4
1829.750	---	-30.86	---	---	500.0	1000.000	107.0	V	322.0	-64.5
1829.750	-34.81	---	-13.00	21.81	500.0	1000.000	107.0	V	322.0	-64.5
2745.750	---	-32.73	---	---	500.0	1000.000	236.0	H	348.0	-61.2
2745.750	-45.21	---	-13.00	32.21	500.0	1000.000	236.0	H	348.0	-61.2
2774.500	-42.11	---	-13.00	29.11	500.0	1000.000	151.0	H	0.0	-61.1
2774.500	---	-26.43	---	---	500.0	1000.000	151.0	H	0.0	-61.1
2787.250	-41.26	---	-13.00	28.26	500.0	1000.000	142.0	H	359.0	-61.0
2787.250	---	-21.72	---	---	500.0	1000.000	142.0	H	359.0	-61.0
2803.750	---	-21.22	---	---	500.0	1000.000	134.0	H	4.0	-60.9
2803.750	-37.58	---	-13.00	24.58	500.0	1000.000	134.0	H	4.0	-60.9

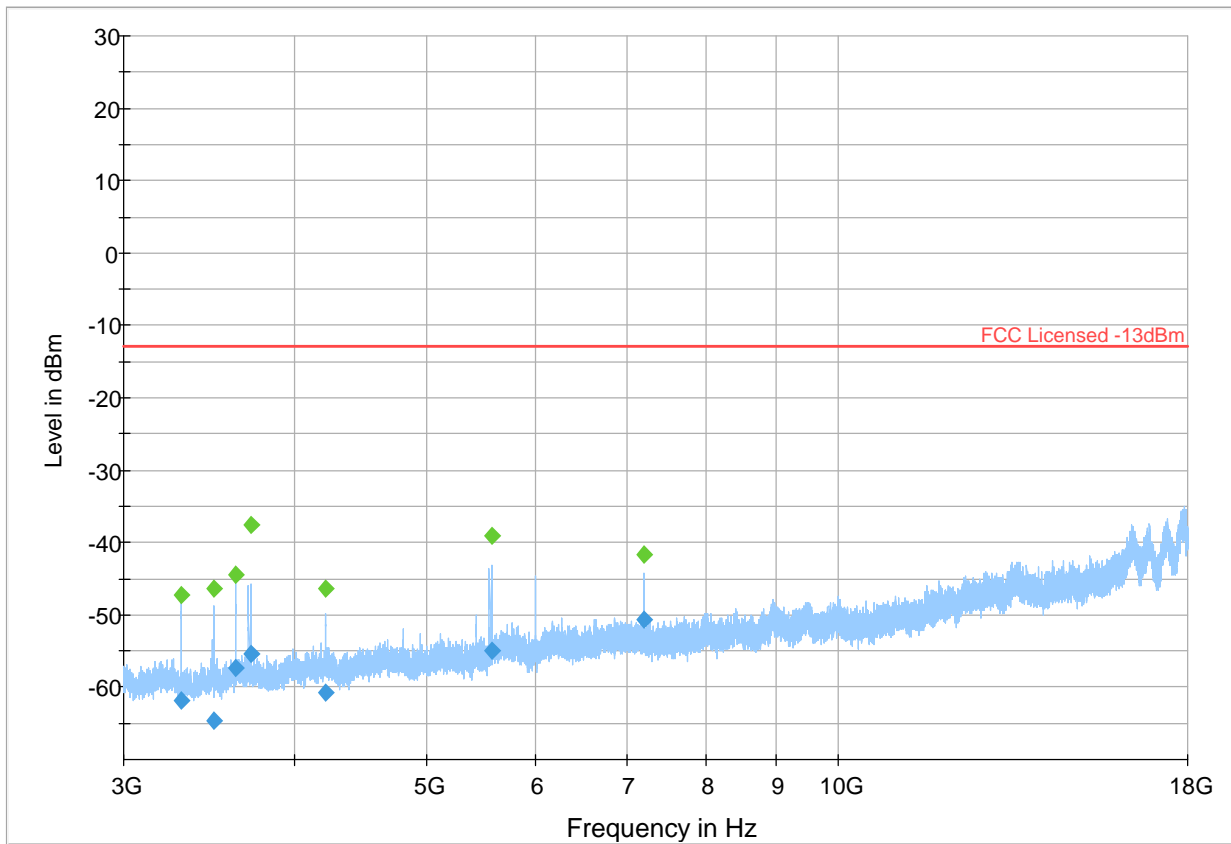


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 3

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3306.250	---	-47.35	---	---	500.0	1000.000	158.0	H	20.0	-103.3
3306.250	-61.92	---	-13.00	48.92	500.0	1000.000	158.0	H	20.0	-103.3
3487.750	---	-46.30	---	---	500.0	1000.000	146.0	H	176.0	-102.2
3487.750	-64.74	---	-13.00	51.74	500.0	1000.000	146.0	H	176.0	-102.2
3619.000	---	-44.38	---	---	500.0	1000.000	307.0	H	28.0	-101.2
3619.000	-57.31	---	-13.00	44.31	500.0	1000.000	307.0	H	28.0	-101.2
3718.500	---	-37.66	---	---	500.0	1000.000	195.0	H	18.0	-100.8
3718.500	-55.33	---	-13.00	42.33	500.0	1000.000	195.0	H	18.0	-100.8
4212.250	---	-46.47	---	---	500.0	1000.000	143.0	H	342.0	-99.2
4212.250	-60.82	---	-13.00	47.82	500.0	1000.000	143.0	H	342.0	-99.2
5578.250	---	-39.12	---	---	500.0	1000.000	325.0	V	269.0	-97.0
5578.250	-55.04	---	-13.00	42.04	500.0	1000.000	325.0	V	269.0	-97.0
7206.500	---	-41.61	---	---	500.0	1000.000	164.0	H	6.0	-95.8
7206.500	-50.59	---	-13.00	37.59	500.0	1000.000	164.0	H	6.0	-95.8

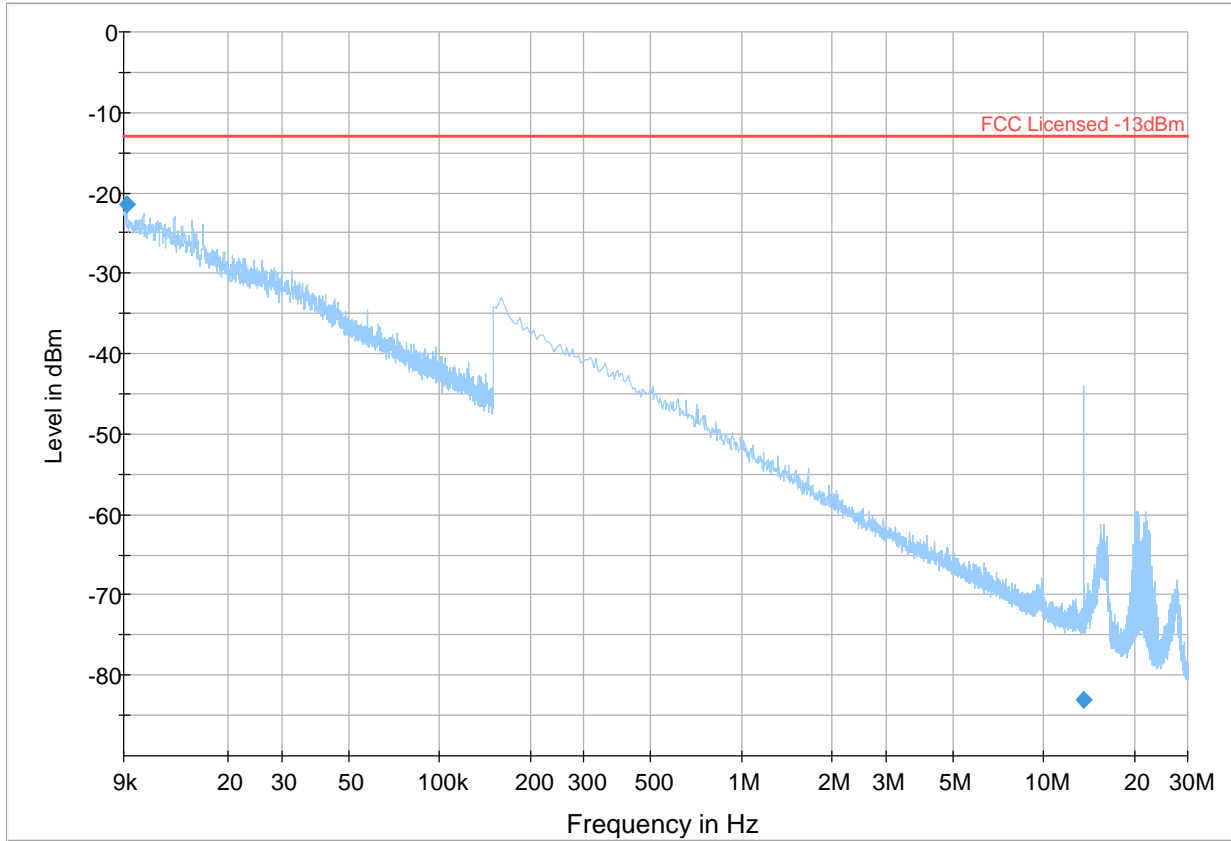


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK



Plot # 4

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
0.009	-21.51	-13.00	8.51	500.0	1.000	304.0	H	30.0	-64.5	
13.558	-83.06	-13.00	70.06	500.0	1.000	159.0	V	153.0	-78.0	

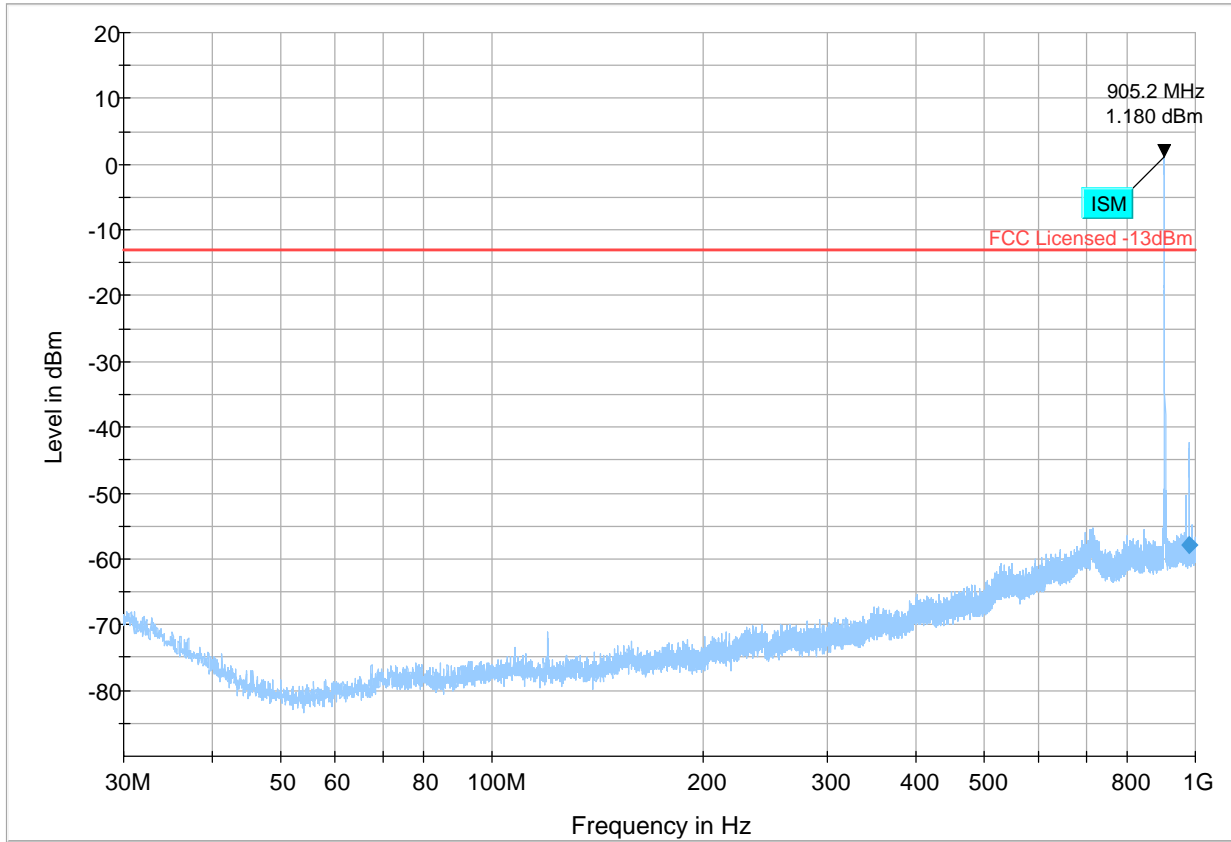


— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS



Plot # 5

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
979.565	-57.93	-13.00	44.93	500.0	100.000	149.0	H	133.0	-72.7	

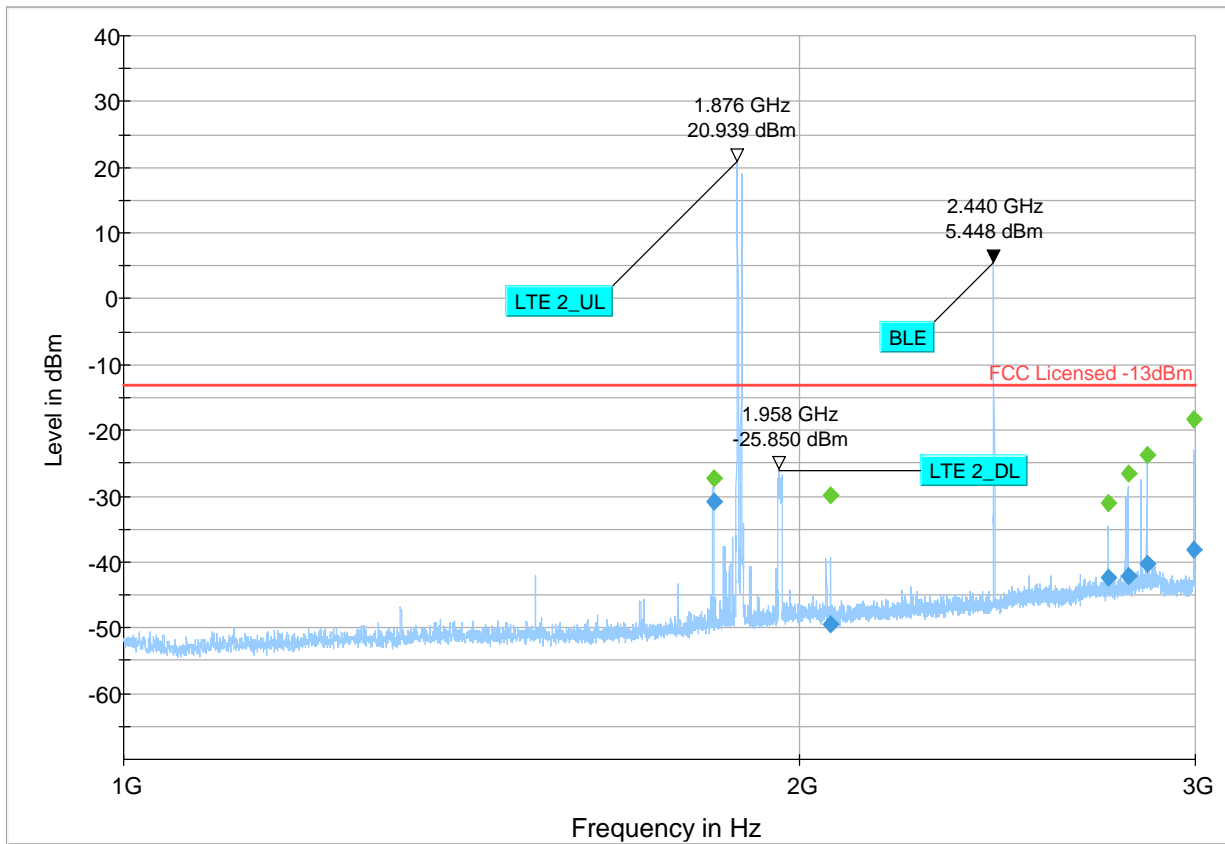


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS



Plot # 6

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1830.250	---	-27.32	---	---	500.0	1000.000	235.0	V	273.0	-64.5
1830.250	-30.80	---	-13.00	17.80	500.0	1000.000	235.0	V	273.0	-64.5
2063.750	---	-29.90	---	---	500.0	1000.000	201.0	H	195.0	-63.6
2063.750	-49.36	---	-13.00	36.36	500.0	1000.000	201.0	H	195.0	-63.6
2745.500	---	-31.02	---	---	500.0	1000.000	194.0	H	353.0	-61.2
2745.500	-42.39	---	-13.00	29.39	500.0	1000.000	194.0	H	353.0	-61.2
2799.500	---	-26.57	---	---	500.0	1000.000	134.0	H	2.0	-61.0
2799.500	-42.20	---	-13.00	29.20	500.0	1000.000	134.0	H	2.0	-61.0
2853.750	---	-23.75	---	---	500.0	1000.000	150.0	H	4.0	-60.7
2853.750	-40.14	---	-13.00	27.14	500.0	1000.000	150.0	H	4.0	-60.7
2996.000	---	-18.19	---	---	500.0	1000.000	125.0	H	302.0	-59.5
2996.000	-38.07	---	-13.00	25.07	500.0	1000.000	125.0	H	302.0	-59.5

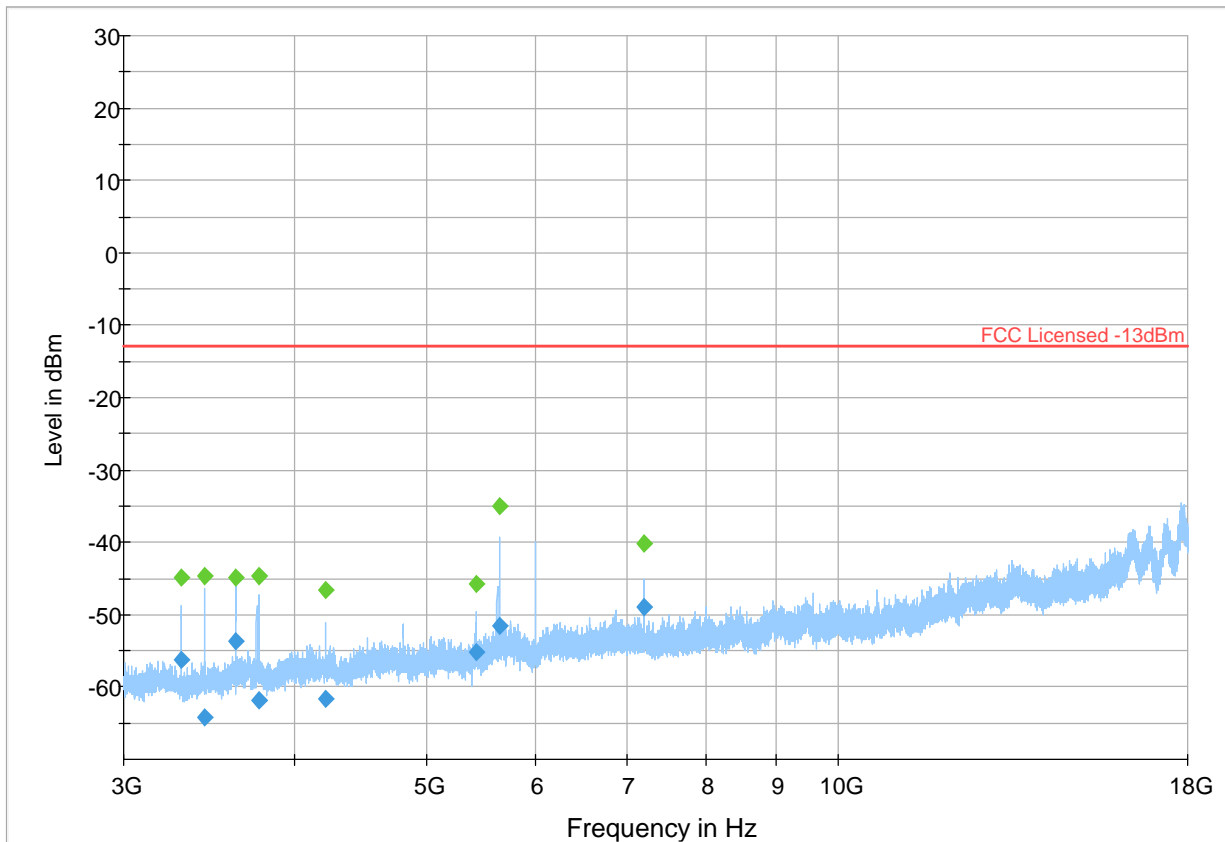


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 7

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3307.000	---	-44.90	---	---	500.0	1000.000	250.0	H	22.0	-103.3
3307.000	-56.25	---	-13.00	43.25	500.0	1000.000	250.0	H	22.0	-103.3
3436.250	---	-44.60	---	---	500.0	1000.000	143.0	H	4.0	-102.3
3436.250	-64.31	---	-13.00	51.31	500.0	1000.000	143.0	H	4.0	-102.3
3619.000	---	-44.99	---	---	500.0	1000.000	179.0	H	126.0	-101.2
3619.000	-53.78	---	-13.00	40.78	500.0	1000.000	179.0	H	126.0	-101.2
3768.500	---	-44.66	---	---	500.0	1000.000	134.0	V	4.0	-100.9
3768.500	-61.77	---	-13.00	48.77	500.0	1000.000	134.0	V	4.0	-100.9
4211.500	---	-46.60	---	---	500.0	1000.000	117.0	H	-29.0	-99.2
4211.500	-61.57	---	-13.00	48.57	500.0	1000.000	117.0	H	-29.0	-99.2
5431.000	---	-45.66	---	---	500.0	1000.000	195.0	V	180.0	-97.7
5431.000	-55.10	---	-13.00	42.10	500.0	1000.000	195.0	V	180.0	-97.7
5653.000	---	-34.93	---	---	500.0	1000.000	107.0	H	-41.0	-96.3
5653.000	-51.49	---	-13.00	38.49	500.0	1000.000	107.0	H	-41.0	-96.3
7205.250	---	-40.13	---	---	500.0	1000.000	164.0	H	12.0	-95.8
7205.250	-48.91	---	-13.00	35.91	500.0	1000.000	164.0	H	12.0	-95.8

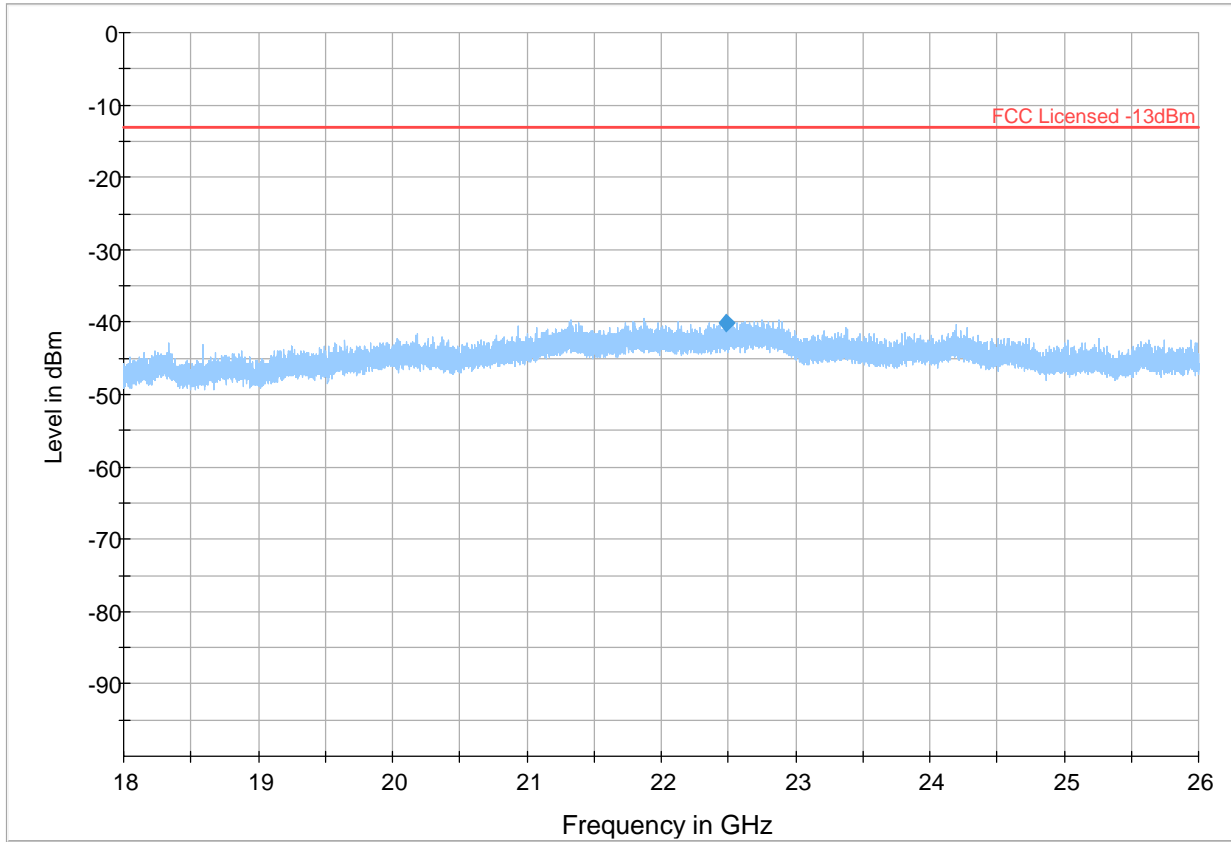


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK



Plot # 8

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
22484.500	-40.09	---	-13.00	27.09	500.0	1000.000	100.0	H	64.0	-75.8

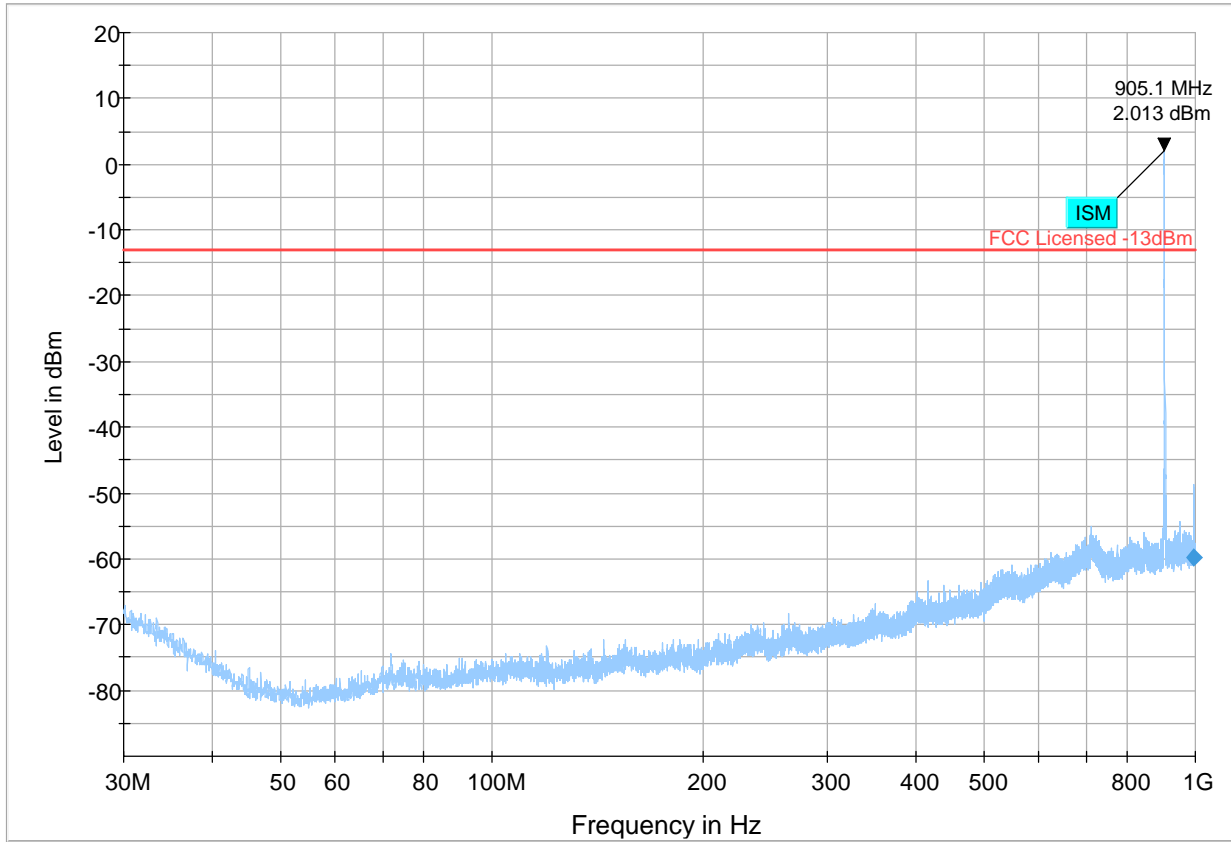


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 9

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
996.249	-59.83	-13.00	46.83	500.0	100.000	161.0	H	145.0	-72.8	

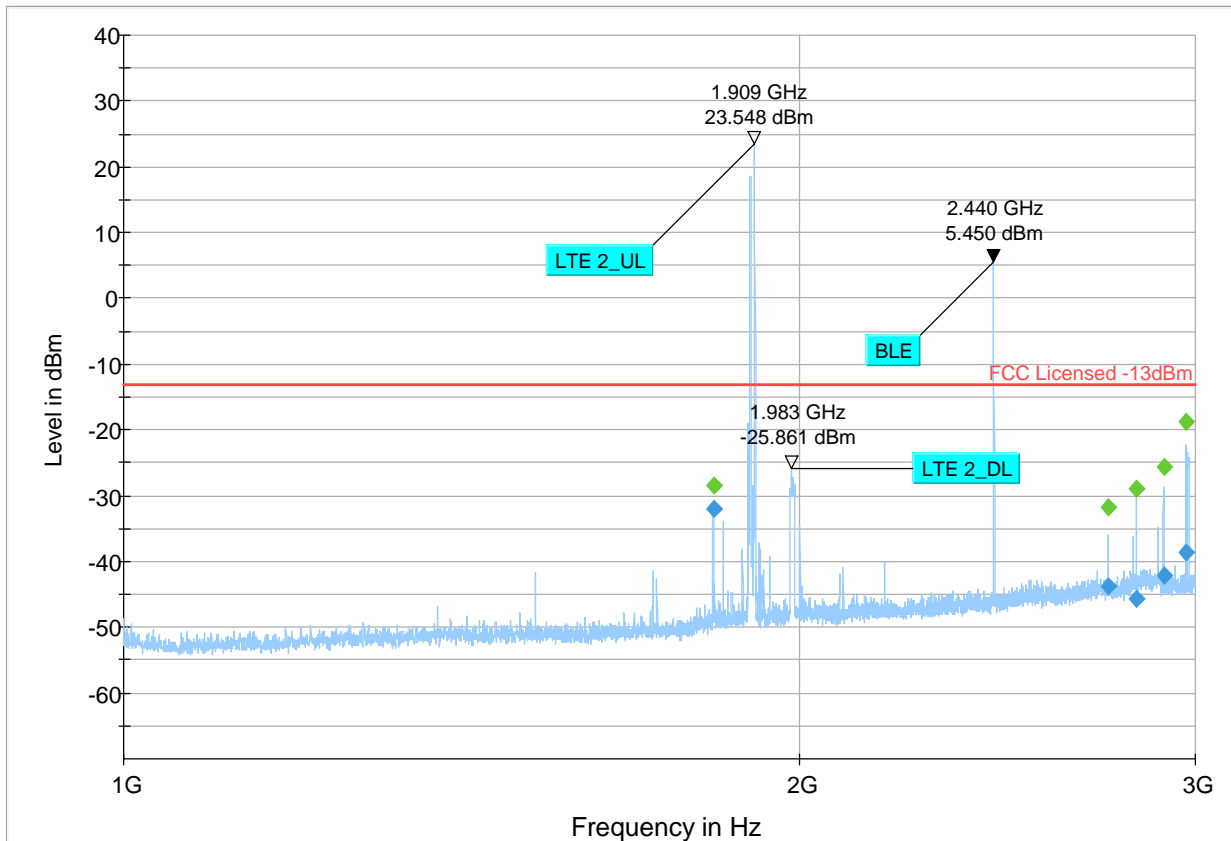


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS



Plot # 10

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1830.250	---	-28.39	---	---	500.0	1000.000	236.0	V	271.0	-64.5
1830.250	-31.91	---	-13.00	18.91	500.0	1000.000	236.0	V	271.0	-64.5
2745.500	---	-31.77	---	---	500.0	1000.000	194.0	H	-1.0	-61.2
2745.500	-43.82	---	-13.00	30.82	500.0	1000.000	194.0	H	-1.0	-61.2
2824.750	---	-28.89	---	---	500.0	1000.000	159.0	H	1.0	-60.8
2824.750	-45.69	---	-13.00	32.69	500.0	1000.000	159.0	H	1.0	-60.8
2904.000	---	-25.51	---	---	500.0	1000.000	167.0	H	-13.0	-60.4
2904.000	-42.13	---	-13.00	29.13	500.0	1000.000	167.0	H	-13.0	-60.4
2970.250	---	-18.74	---	---	500.0	1000.000	133.0	H	303.0	-60.2
2970.250	-38.69	---	-13.00	25.69	500.0	1000.000	133.0	H	303.0	-60.2

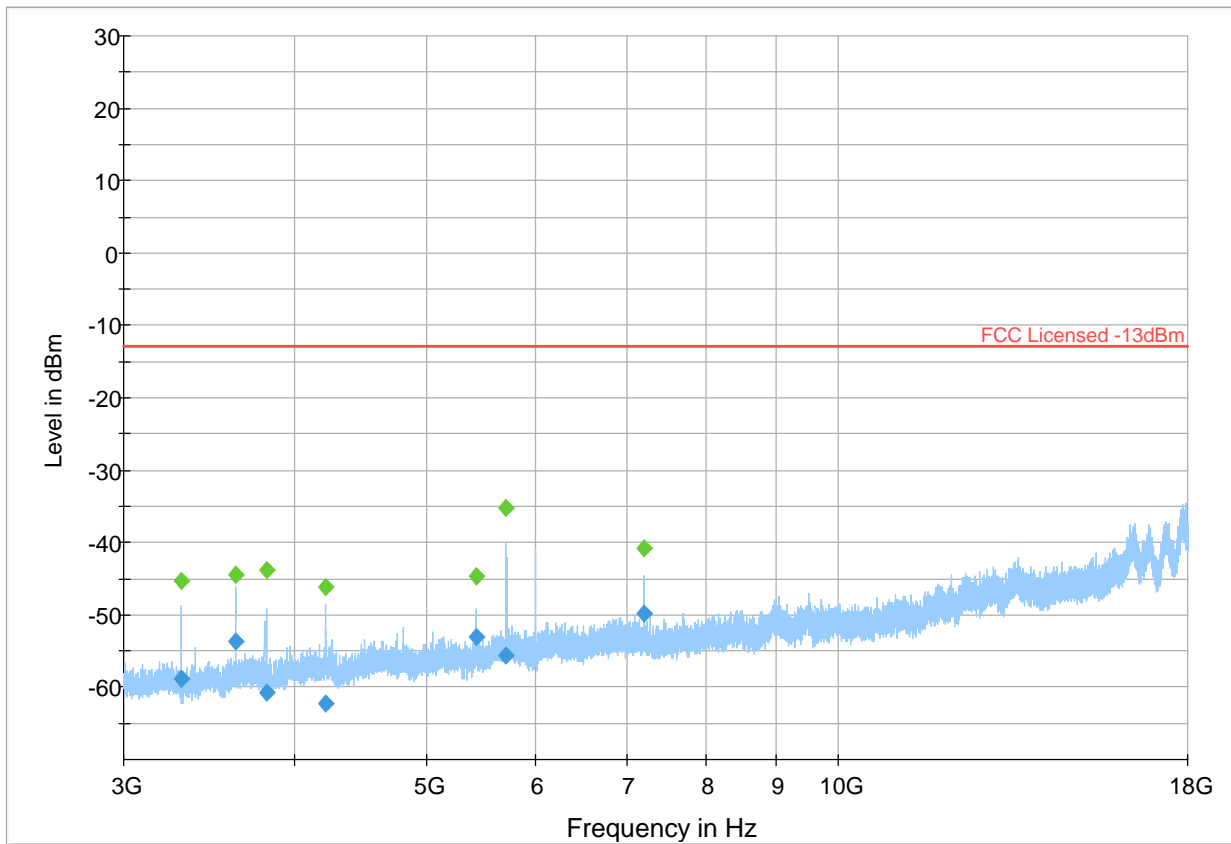


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 11

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3306.500	---	-45.27	---	---	500.0	1000.000	221.0	H	2.0	-103.3
3306.500	-58.92	---	-13.00	45.92	500.0	1000.000	221.0	H	2.0	-103.3
3619.000	---	-44.42	---	---	500.0	1000.000	238.0	H	128.0	-101.2
3619.000	-53.64	---	-13.00	40.64	500.0	1000.000	238.0	H	128.0	-101.2
3818.750	---	-43.84	---	---	500.0	1000.000	276.0	V	137.0	-101.4
3818.750	-60.75	---	-13.00	47.75	500.0	1000.000	276.0	V	137.0	-101.4
4211.250	---	-46.22	---	---	500.0	1000.000	100.0	H	304.0	-99.2
4211.250	-62.24	---	-13.00	49.24	500.0	1000.000	100.0	H	304.0	-99.2
5431.000	---	-44.65	---	---	500.0	1000.000	155.0	V	326.0	-97.7
5431.000	-53.03	---	-13.00	40.03	500.0	1000.000	155.0	V	326.0	-97.7
5703.000	---	-35.25	---	---	500.0	1000.000	151.0	H	321.0	-96.0
5703.000	-55.52	---	-13.00	42.52	500.0	1000.000	151.0	H	321.0	-96.0
7205.250	---	-40.73	---	---	500.0	1000.000	180.0	H	9.0	-95.8
7205.250	-49.74	---	-13.00	36.74	500.0	1000.000	180.0	H	9.0	-95.8

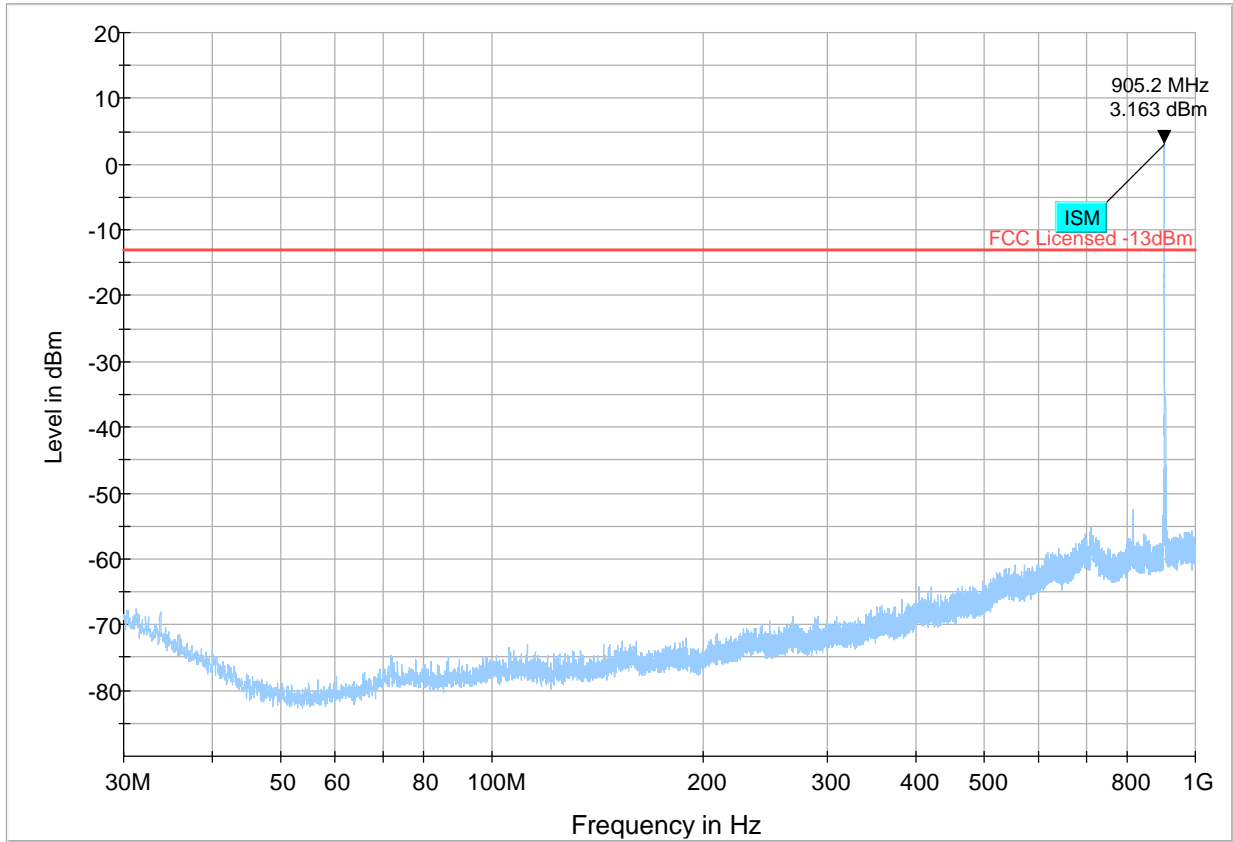


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK



Plot # 12

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

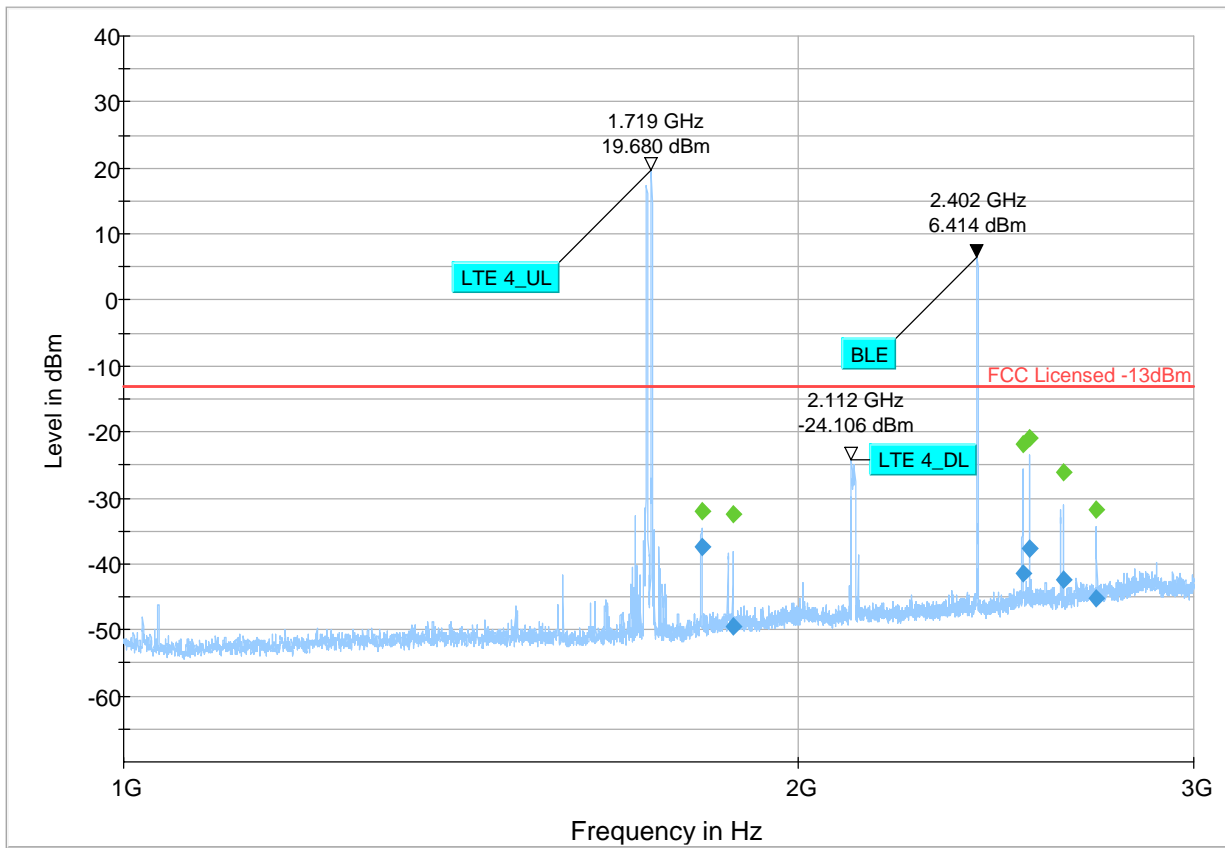


— Preview Result 1-PK+
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RM



Plot # 13

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1810.250	-37.43	---	-13.00	24.43	500.0	1000.000	320.0	V	261.0	-64.7
1810.250	---	-32.05	---	---	500.0	1000.000	320.0	V	261.0	-64.7
1868.750	-49.51	---	-13.00	36.51	500.0	1000.000	124.0	H	25.0	-64.1
1868.750	---	-32.45	---	---	500.0	1000.000	124.0	H	25.0	-64.1
2517.250	-41.41	---	-13.00	28.41	500.0	1000.000	211.0	H	325.0	-61.7
2517.250	---	-21.93	---	---	500.0	1000.000	211.0	H	325.0	-61.7
2534.000	-37.71	---	-13.00	24.71	500.0	1000.000	185.0	H	333.0	-61.7
2534.000	---	-20.86	---	---	500.0	1000.000	185.0	H	333.0	-61.7
2624.250	-42.44	---	-13.00	29.44	500.0	1000.000	160.0	H	2.0	-61.7
2624.250	---	-26.10	---	---	500.0	1000.000	160.0	H	2.0	-61.7
2714.500	-45.17	---	-13.00	32.17	500.0	1000.000	202.0	H	2.0	-61.3
2714.500	---	-31.74	---	---	500.0	1000.000	202.0	H	2.0	-61.3

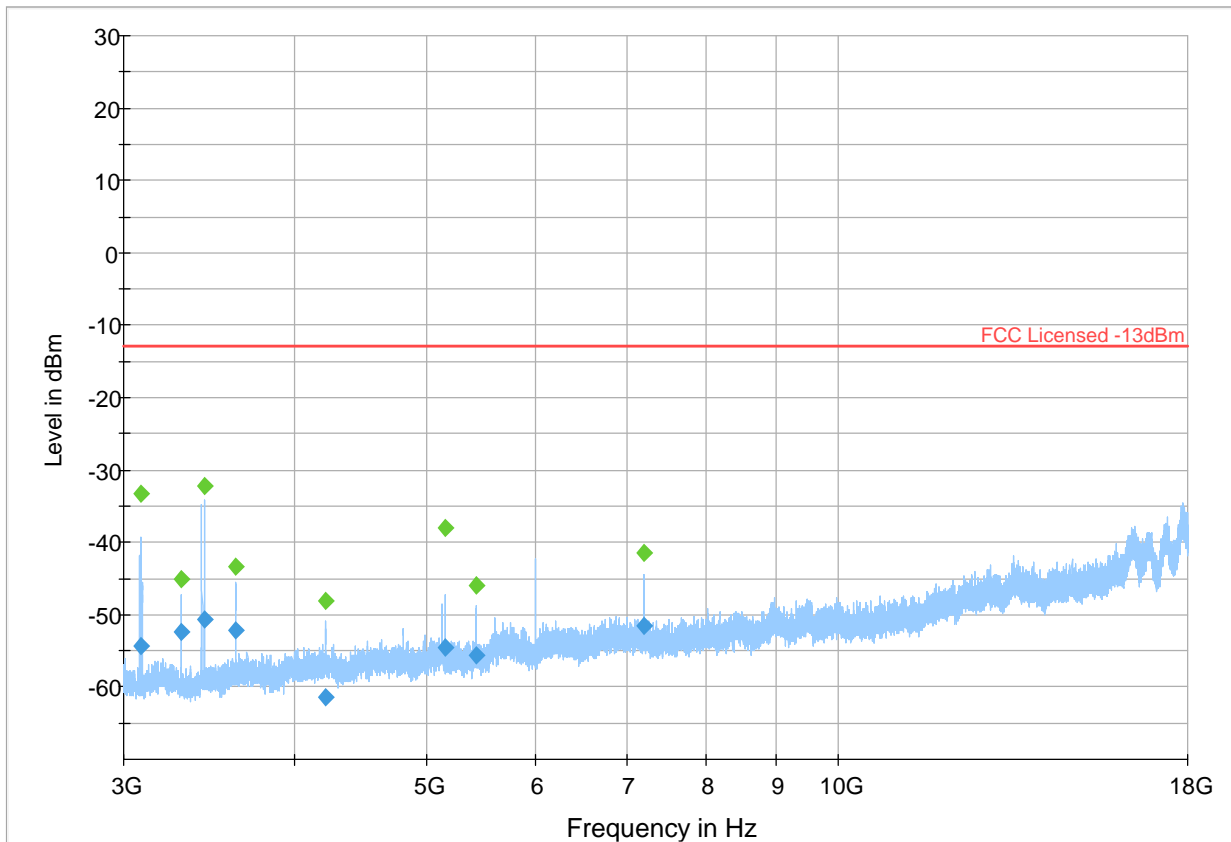


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 14

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3085.250	---	-33.40	---	---	500.0	1000.000	159.0	H	189.0	-103.4
3085.250	-54.33	---	-13.00	41.33	500.0	1000.000	159.0	H	189.0	-103.4
3307.000	---	-45.14	---	---	500.0	1000.000	169.0	H	-1.0	-103.3
3307.000	-52.41	---	-13.00	39.41	500.0	1000.000	169.0	H	-1.0	-103.3
3438.250	---	-32.33	---	---	500.0	1000.000	100.0	H	13.0	-102.3
3438.250	-50.63	---	-13.00	37.63	500.0	1000.000	100.0	H	13.0	-102.3
3619.000	---	-43.47	---	---	500.0	1000.000	134.0	H	147.0	-101.2
3619.000	-52.17	---	-13.00	39.17	500.0	1000.000	134.0	H	147.0	-101.2
4212.250	---	-48.14	---	---	500.0	1000.000	134.0	V	91.0	-99.2
4212.250	-61.31	---	-13.00	48.31	500.0	1000.000	134.0	V	91.0	-99.2
5158.000	---	-38.10	---	---	500.0	1000.000	100.0	H	314.0	-97.9
5158.000	-54.50	---	-13.00	41.50	500.0	1000.000	100.0	H	314.0	-97.9
5428.750	---	-45.96	---	---	500.0	1000.000	190.0	V	92.0	-97.7
5428.750	-55.67	---	-13.00	42.67	500.0	1000.000	190.0	V	92.0	-97.7
7205.000	---	-41.40	---	---	500.0	1000.000	116.0	H	9.0	-95.8
7205.000	-51.57	---	-13.00	38.57	500.0	1000.000	116.0	H	9.0	-95.8

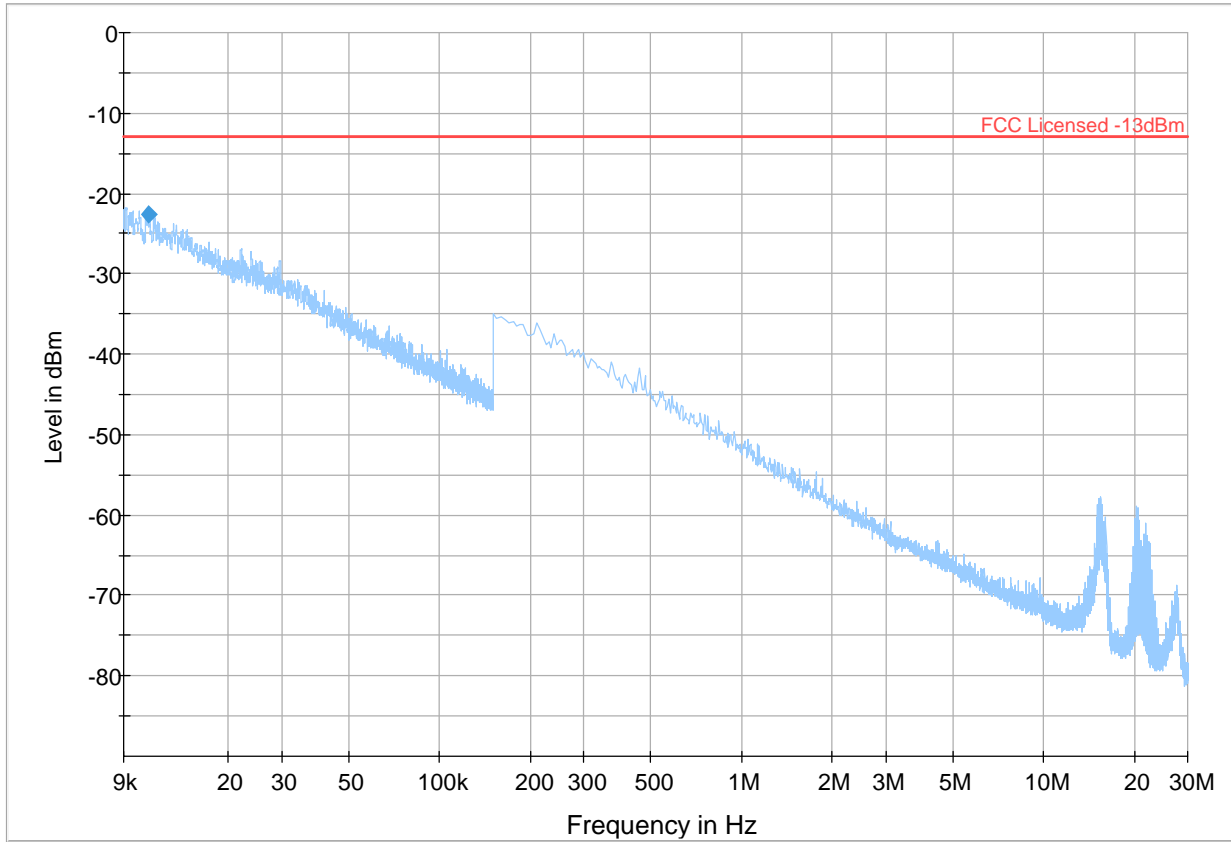


— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS ◆ Final_Result PK



Plot # 15

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
0.011	-22.56	-13.00	9.56	500.0	1.000	254.0	H	-16.0	-65.7	

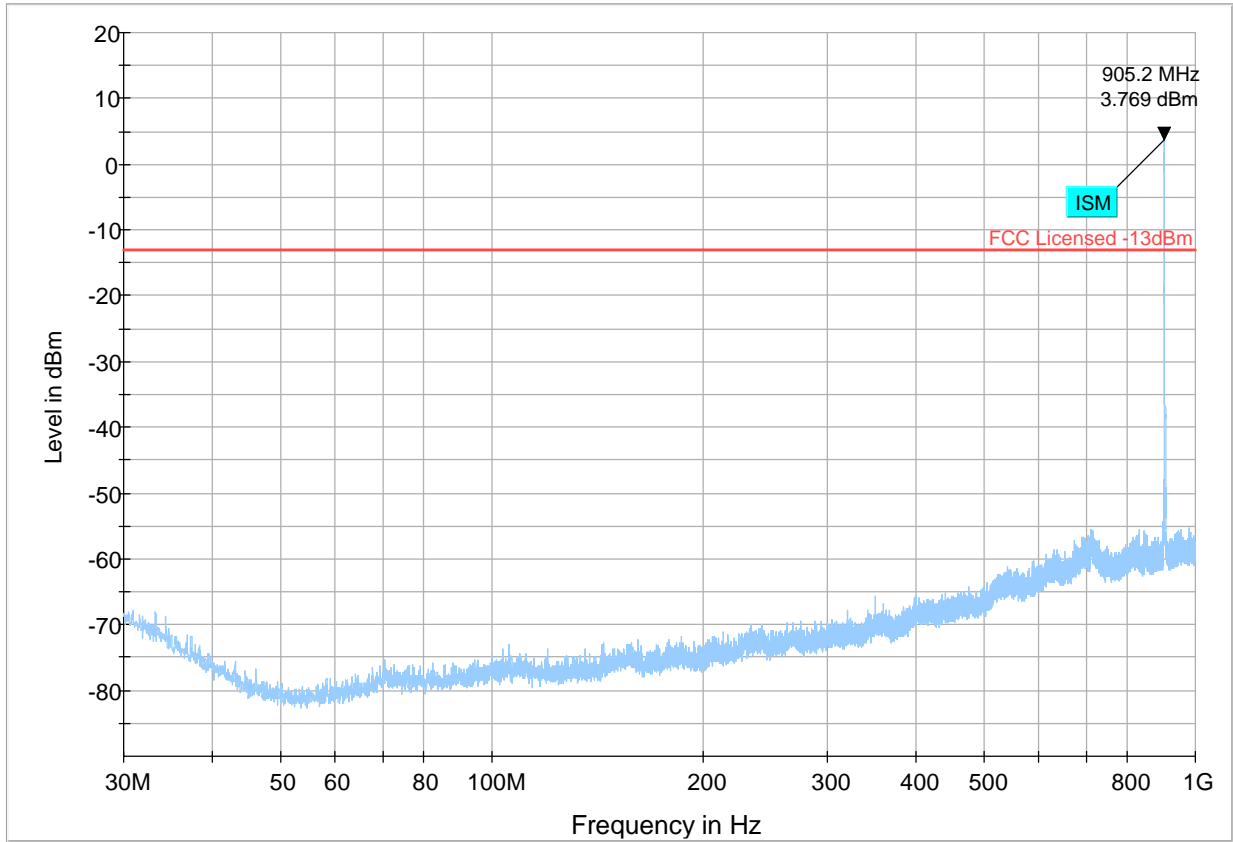


— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS



Plot # 16

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

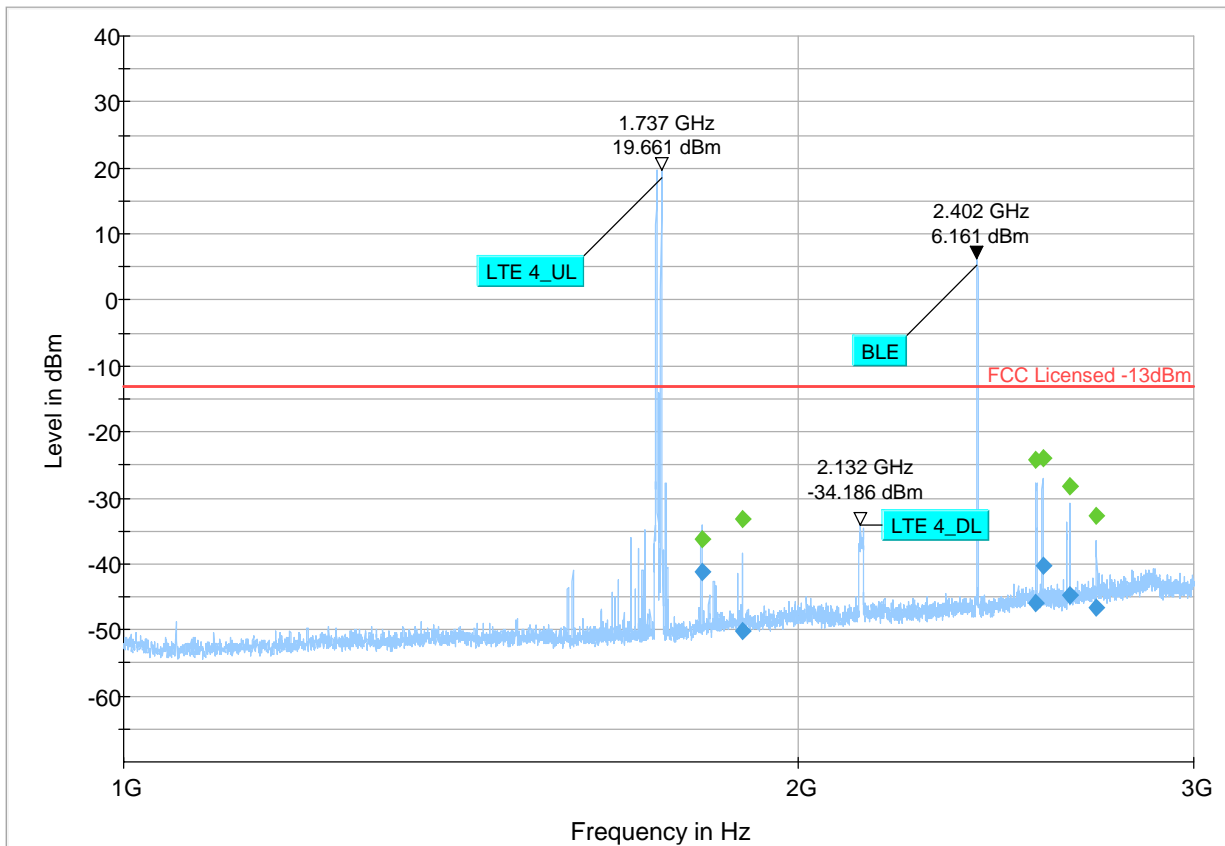


— Preview Result 1-PK+
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RM



Plot # 17

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1810.000	-41.26	---	-13.00	28.26	500.0	1000.000	277.0	V	34.0	-64.7
1810.000	---	-36.21	---	---	500.0	1000.000	277.0	V	34.0	-64.7
1887.750	-50.26	---	-13.00	37.26	500.0	1000.000	158.0	H	185.0	-64.1
1887.750	---	-33.28	---	---	500.0	1000.000	158.0	H	185.0	-64.1
2551.750	-46.01	---	-13.00	33.01	500.0	1000.000	177.0	H	-13.0	-61.7
2551.750	---	-24.26	---	---	500.0	1000.000	177.0	H	-13.0	-61.7
2568.750	-40.27	---	-13.00	27.27	500.0	1000.000	116.0	H	332.0	-61.7
2568.750	---	-23.97	---	---	500.0	1000.000	116.0	H	332.0	-61.7
2641.750	-44.64	---	-13.00	31.64	500.0	1000.000	160.0	H	345.0	-61.6
2641.750	---	-28.21	---	---	500.0	1000.000	160.0	H	345.0	-61.6
2714.500	-46.73	---	-13.00	33.74	500.0	1000.000	125.0	H	355.0	-61.3
2714.500	---	-32.62	---	---	500.0	1000.000	125.0	H	355.0	-61.3

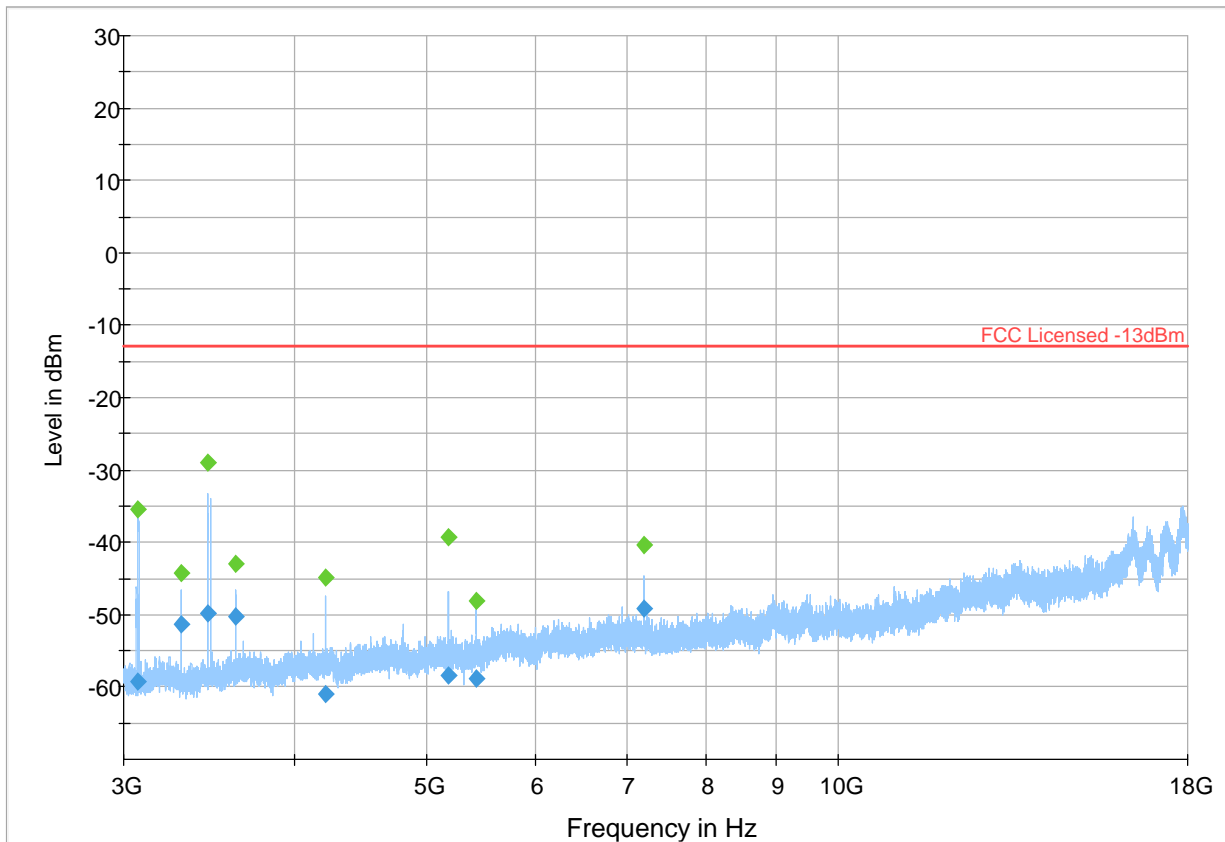


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 18

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3074.250	---	-35.42	---	---	500.0	1000.000	167.0	H	187.0	-103.5
3074.250	-59.33	---	-13.00	46.33	500.0	1000.000	167.0	H	187.0	-103.5
3307.000	---	-44.16	---	---	500.0	1000.000	177.0	H	3.0	-103.3
3307.000	-51.42	---	-13.00	38.42	500.0	1000.000	177.0	H	3.0	-103.3
3457.000	---	-29.08	---	---	500.0	1000.000	100.0	H	8.0	-102.2
3457.000	-49.75	---	-13.00	36.75	500.0	1000.000	100.0	H	8.0	-102.2
3620.500	---	-42.96	---	---	500.0	1000.000	151.0	H	153.0	-101.1
3620.500	-50.23	---	-13.00	37.23	500.0	1000.000	151.0	H	153.0	-101.1
4211.250	---	-44.96	---	---	500.0	1000.000	100.0	H	304.0	-99.2
4211.250	-60.94	---	-13.00	47.94	500.0	1000.000	100.0	H	304.0	-99.2
5185.500	---	-39.41	---	---	500.0	1000.000	117.0	H	317.0	-97.9
5185.500	-58.51	---	-13.00	45.51	500.0	1000.000	117.0	H	317.0	-97.9
5428.750	---	-48.19	---	---	500.0	1000.000	298.0	H	142.0	-97.7
5428.750	-58.83	---	-13.00	45.83	500.0	1000.000	298.0	H	142.0	-97.7
7205.250	---	-40.29	---	---	500.0	1000.000	160.0	H	12.0	-95.8
7205.250	-49.23	---	-13.00	36.23	500.0	1000.000	160.0	H	12.0	-95.8

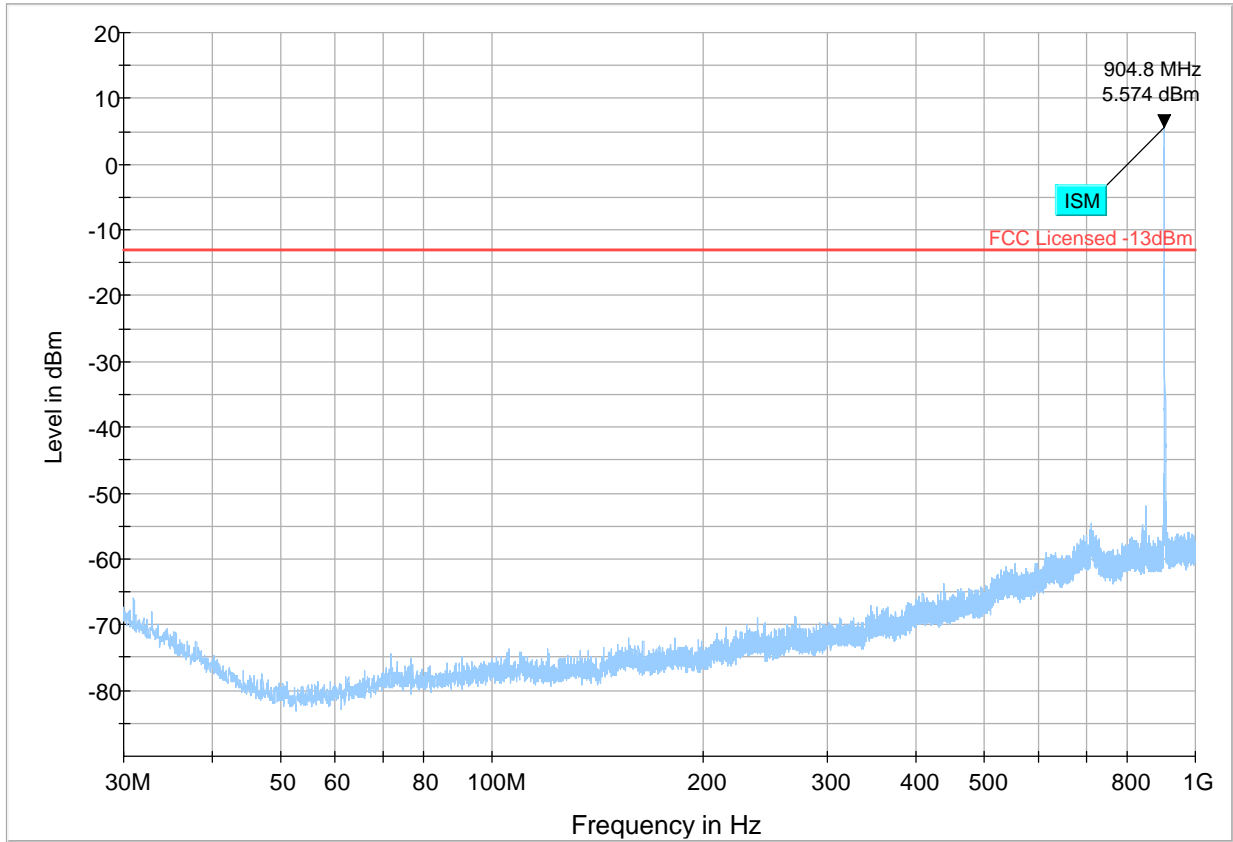


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK



Plot # 19

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

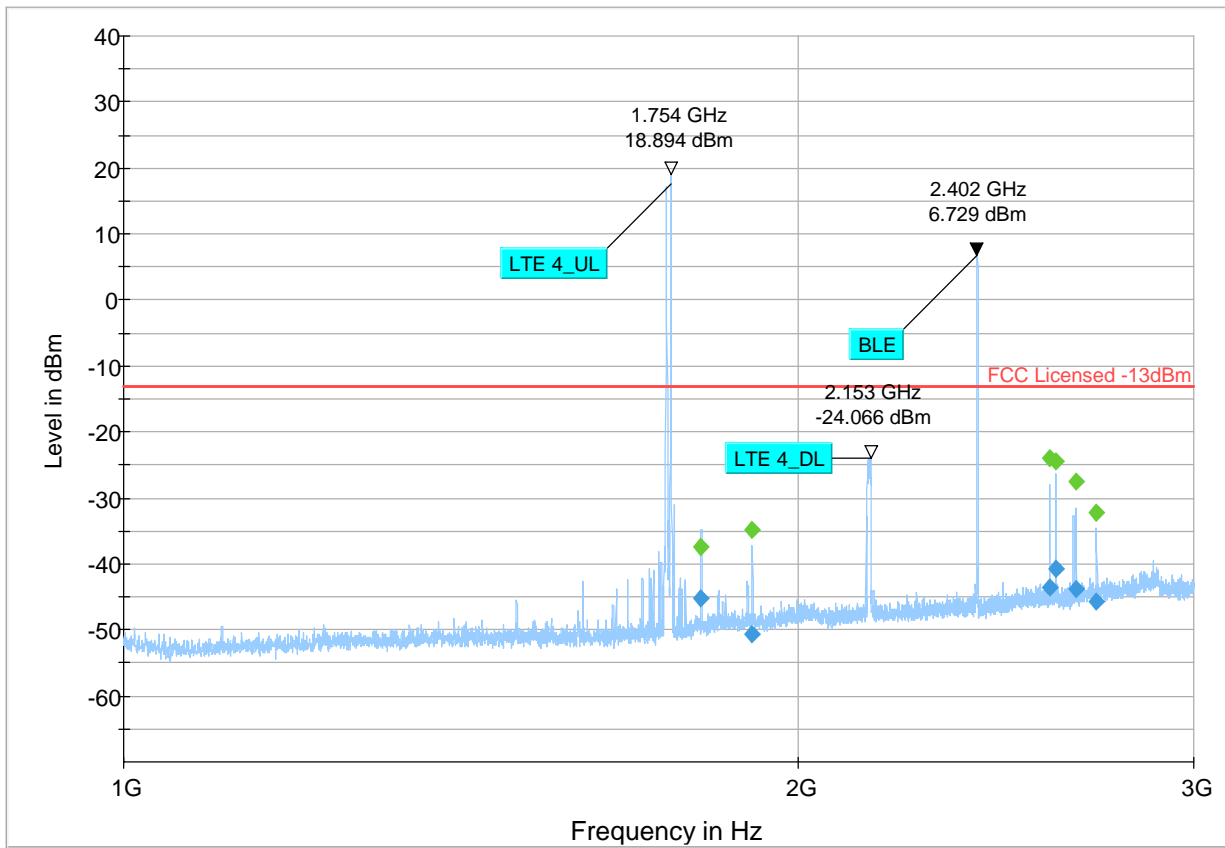


— Preview Result 1-PK+ * Critical_Freqs PK+ — FCC Licensed -13dBm ◆ Final_Result RM



Plot # 20

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1809.500	-45.20	---	-13.00	32.20	500.0	1000.000	212.0	H	297.0	-64.7
1809.500	---	-37.51	---	---	500.0	1000.000	212.0	H	297.0	-64.7
1906.750	-50.58	---	-13.00	37.58	500.0	1000.000	142.0	H	191.0	-64.0
1906.750	---	-34.82	---	---	500.0	1000.000	142.0	H	191.0	-64.0
2587.000	-43.55	---	-13.00	30.55	500.0	1000.000	167.0	H	-1.0	-61.7
2587.000	---	-23.92	---	---	500.0	1000.000	167.0	H	-1.0	-61.7
2603.750	-40.73	---	-13.00	27.73	500.0	1000.000	150.0	H	300.0	-61.7
2603.750	---	-24.43	---	---	500.0	1000.000	150.0	H	300.0	-61.7
2659.250	-43.72	---	-13.00	30.72	500.0	1000.000	160.0	H	-5.0	-61.5
2659.250	---	-27.60	---	---	500.0	1000.000	160.0	H	-5.0	-61.5
2714.500	-45.72	---	-13.00	32.72	500.0	1000.000	142.0	H	357.0	-61.3
2714.500	---	-32.15	---	---	500.0	1000.000	142.0	H	357.0	-61.3

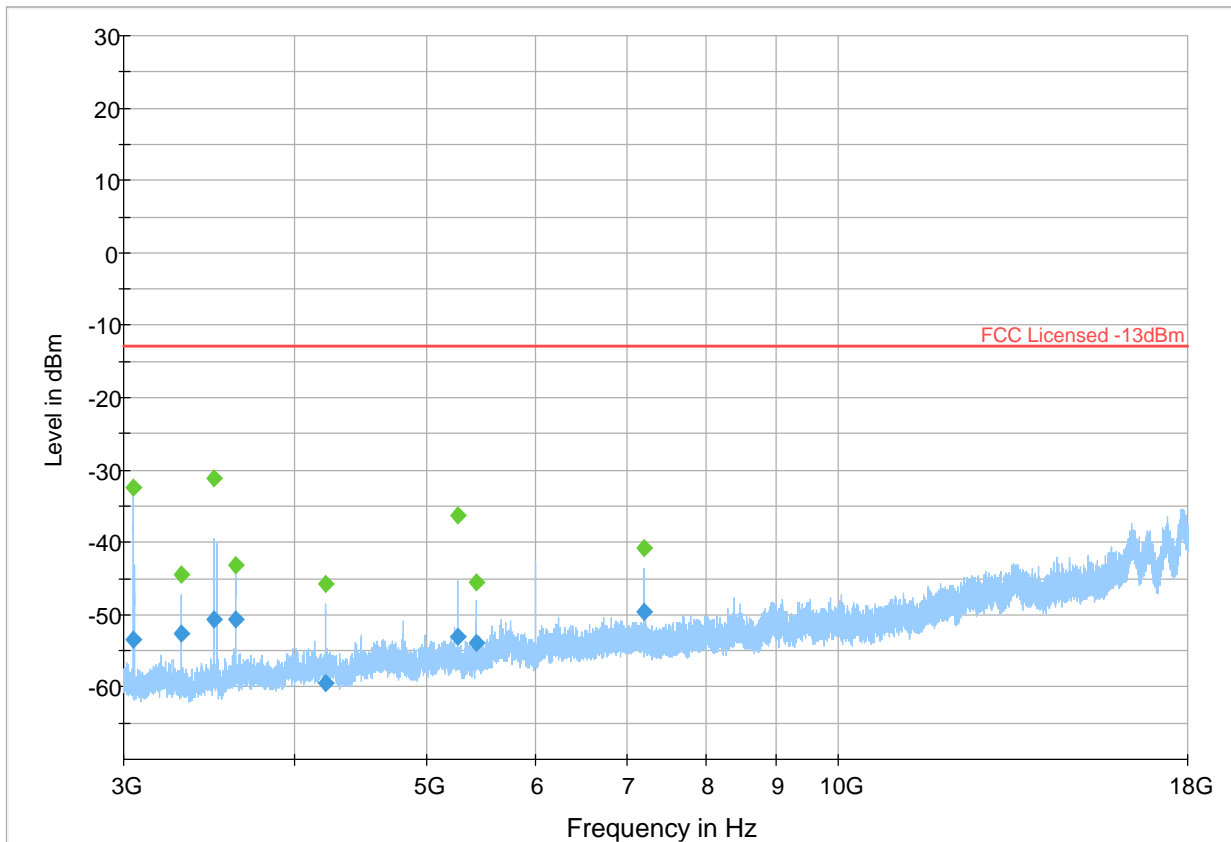


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 21

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3049.000	---	-32.46	---	---	500.0	1000.000	116.0	H	188.0	-103.5
3049.000	-53.37	---	-13.00	40.37	500.0	1000.000	116.0	H	188.0	-103.5
3306.750	---	-44.50	---	---	500.0	1000.000	177.0	H	18.0	-103.3
3306.750	-52.64	---	-13.00	39.64	500.0	1000.000	177.0	H	18.0	-103.3
3492.000	---	-31.23	---	---	500.0	1000.000	107.0	H	3.0	-102.2
3492.000	-50.71	---	-13.00	37.71	500.0	1000.000	107.0	H	3.0	-102.2
3620.500	---	-43.16	---	---	500.0	1000.000	151.0	H	150.0	-101.1
3620.500	-50.65	---	-13.00	37.65	500.0	1000.000	151.0	H	150.0	-101.1
4212.250	---	-45.79	---	---	500.0	1000.000	125.0	H	327.0	-99.2
4212.250	-59.38	---	-13.00	46.38	500.0	1000.000	125.0	H	327.0	-99.2
5263.000	---	-36.32	---	---	500.0	1000.000	117.0	H	314.0	-97.3
5263.000	-52.96	---	-13.00	39.96	500.0	1000.000	117.0	H	314.0	-97.3
5431.000	---	-45.53	---	---	500.0	1000.000	230.0	V	118.0	-97.7
5431.000	-53.96	---	-13.00	40.96	500.0	1000.000	230.0	V	118.0	-97.7
7206.500	---	-40.72	---	---	500.0	1000.000	161.0	H	14.0	-95.8
7206.500	-49.67	---	-13.00	36.67	500.0	1000.000	161.0	H	14.0	-95.8

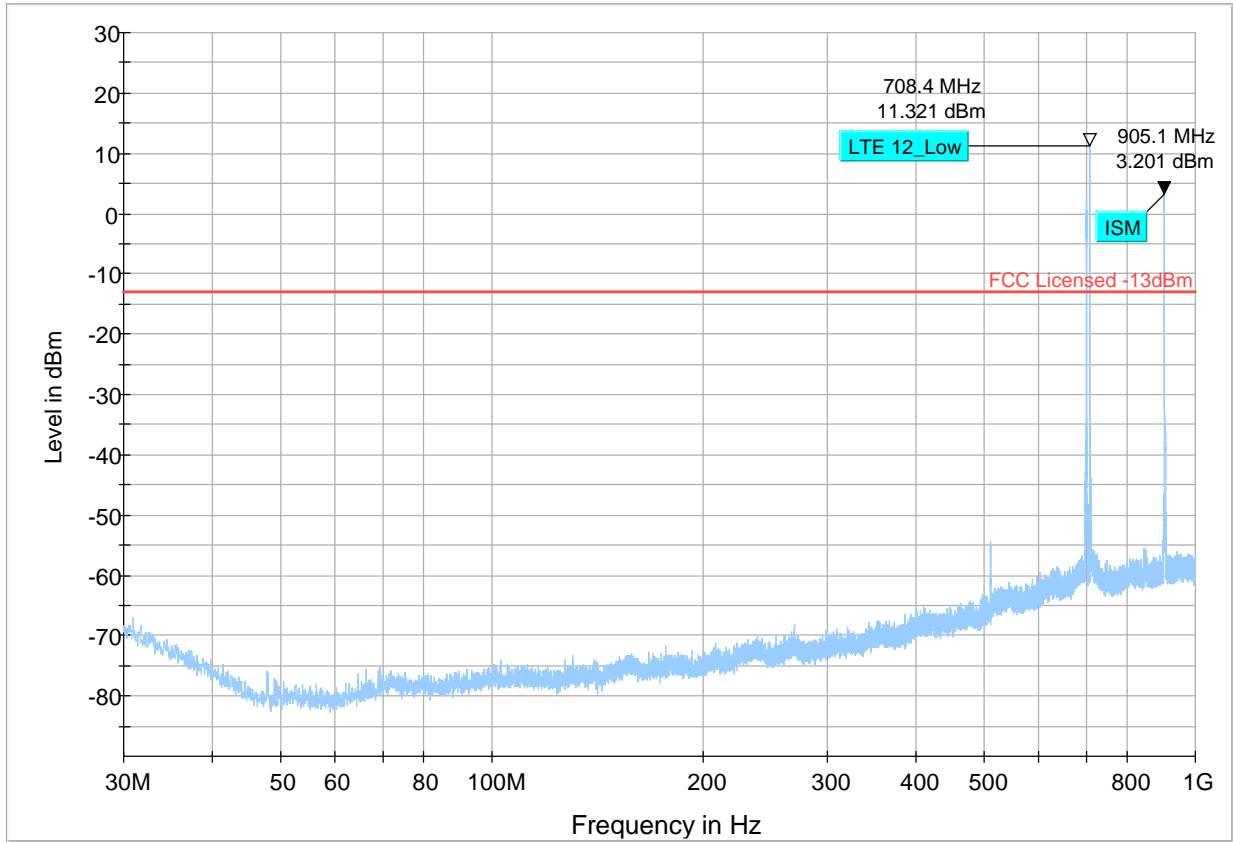


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK



Plot # 22

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

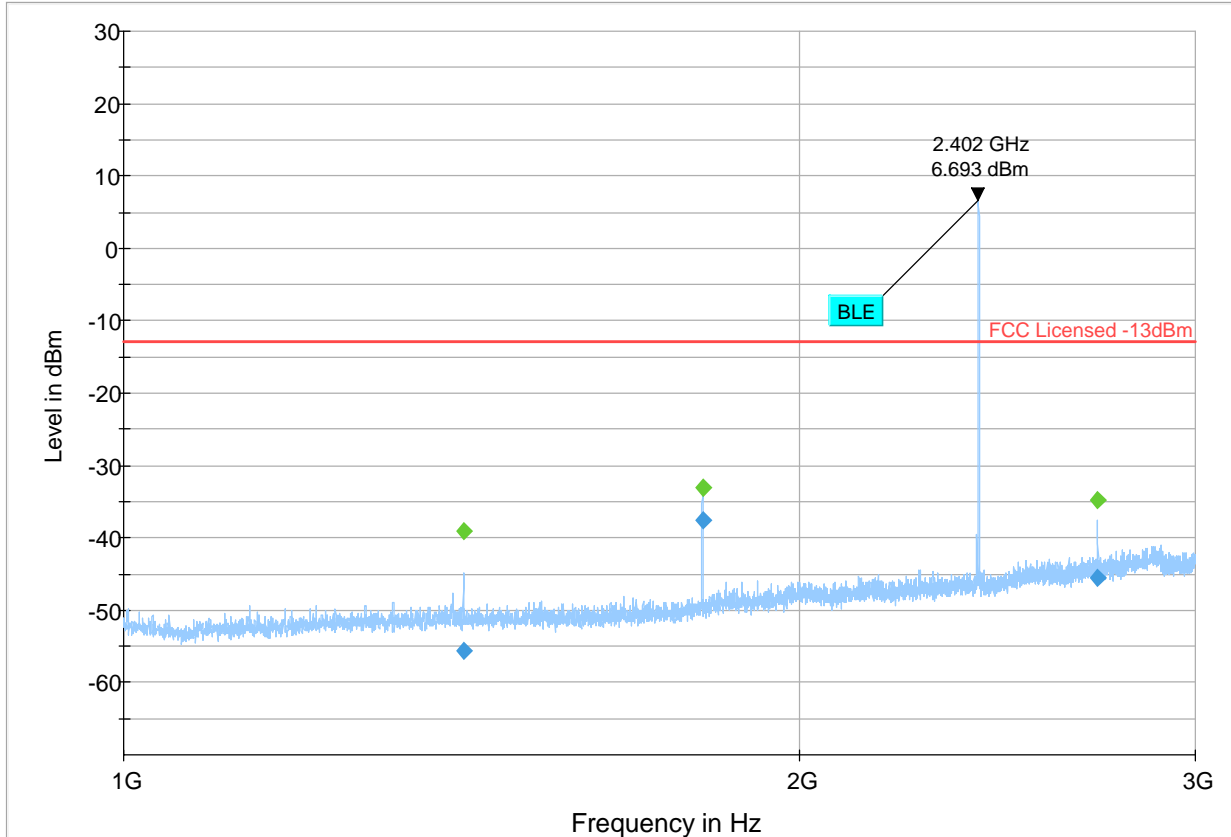


— Preview Result 1-PK+
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RM



Plot # 23

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1416.500	---	-39.15	---	---	500.0	1000.000	133.0	H	236.0	-66.4
1416.500	-55.55	---	-13.00	42.55	500.0	1000.000	133.0	H	236.0	-66.4
1809.750	---	-33.18	---	---	500.0	1000.000	309.0	V	264.0	-64.7
1809.750	-37.62	---	-13.00	24.62	500.0	1000.000	309.0	V	264.0	-64.7
2714.500	---	-34.79	---	---	500.0	1000.000	202.0	H	-3.0	-61.3
2714.500	-45.45	---	-13.00	32.45	500.0	1000.000	202.0	H	-3.0	-61.3

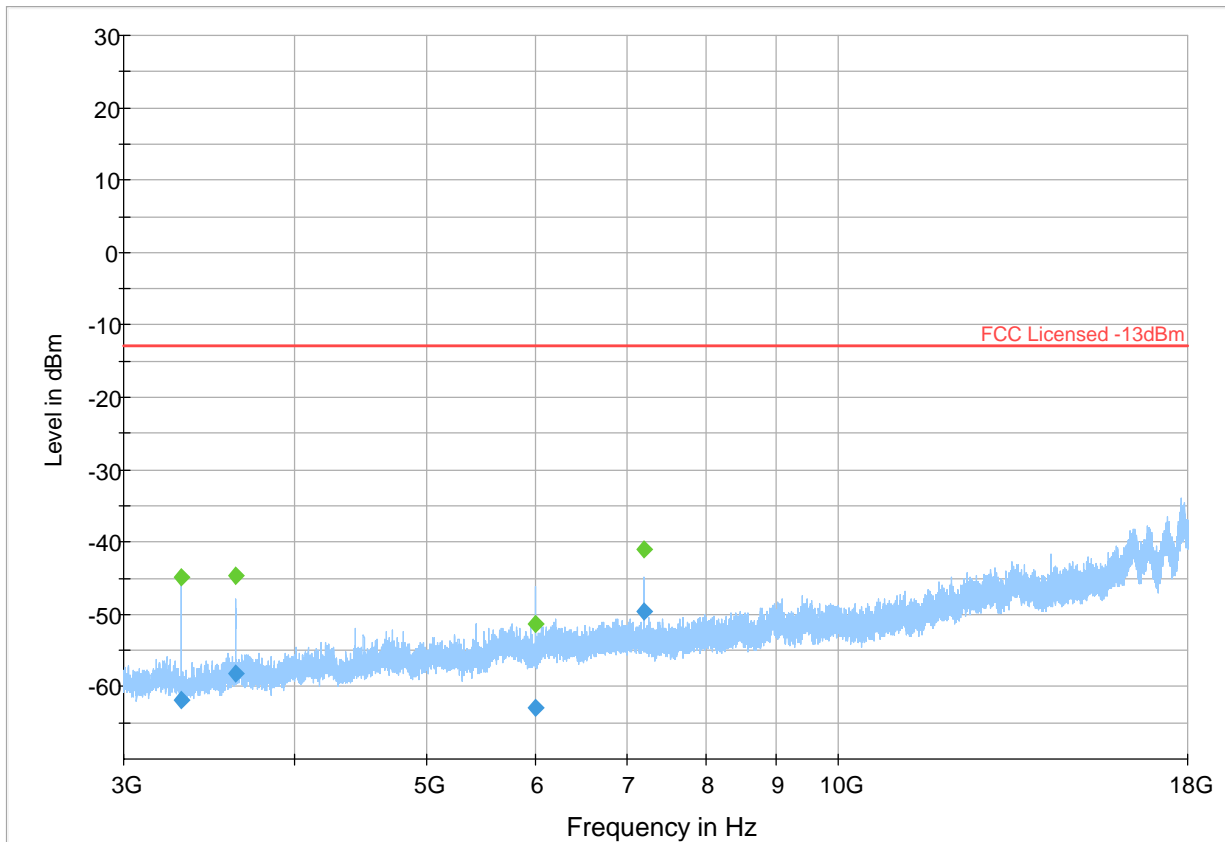


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 24

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3306.250	---	-44.84	---	---	500.0	1000.000	235.0	H	13.0	-103.3
3306.250	-61.79	---	-13.00	48.79	500.0	1000.000	235.0	H	13.0	-103.3
3619.000	---	-44.76	---	---	500.0	1000.000	225.0	H	19.0	-101.2
3619.000	-58.16	---	-13.00	45.16	500.0	1000.000	225.0	H	19.0	-101.2
5999.750	---	-51.37	---	---	500.0	1000.000	264.0	V	308.0	-97.1
5999.750	-62.84	---	-13.00	49.84	500.0	1000.000	264.0	V	308.0	-97.1
7206.500	---	-40.93	---	---	500.0	1000.000	151.0	H	7.0	-95.8
7206.500	-49.64	---	-13.00	36.64	500.0	1000.000	151.0	H	7.0	-95.8

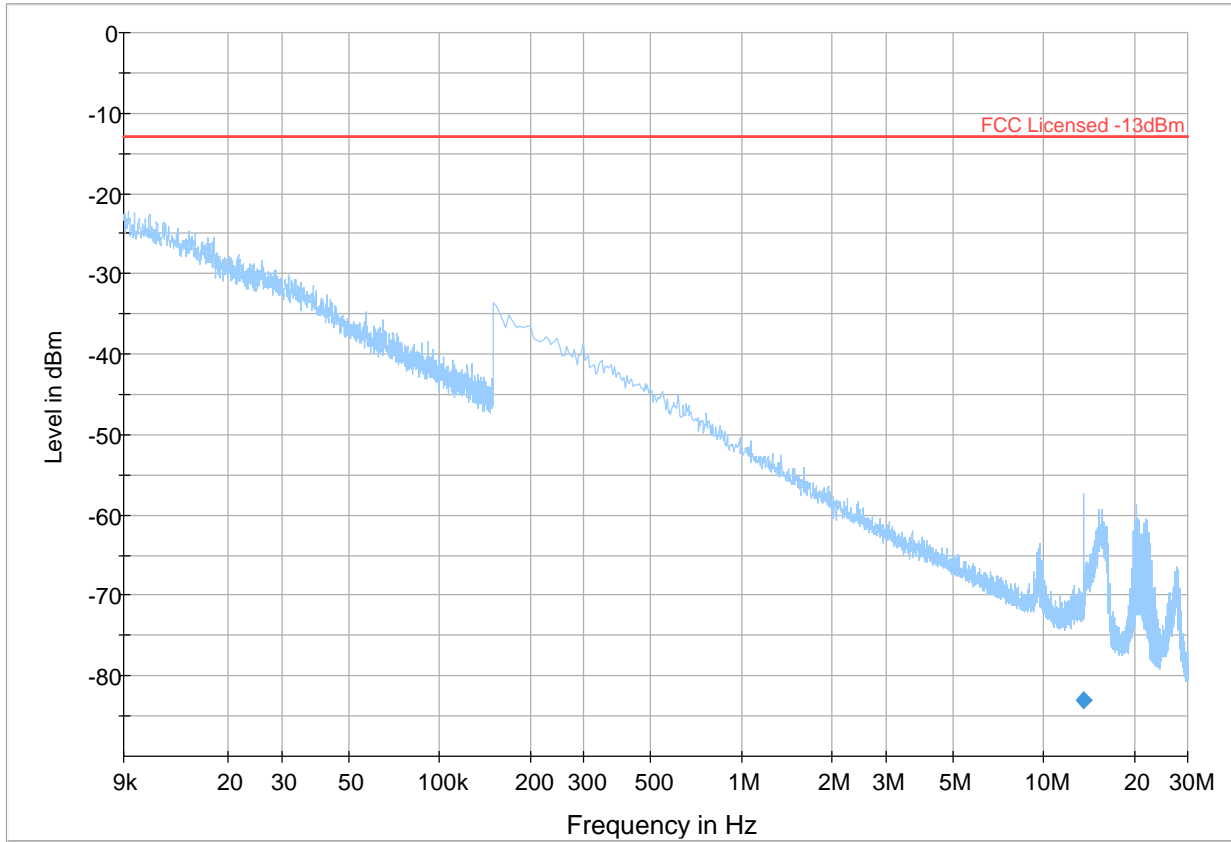


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 25

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Comment
13.558	-83.14	-13.00	70.14	500.0	1.000	305.0	H	163.0	-78.0	

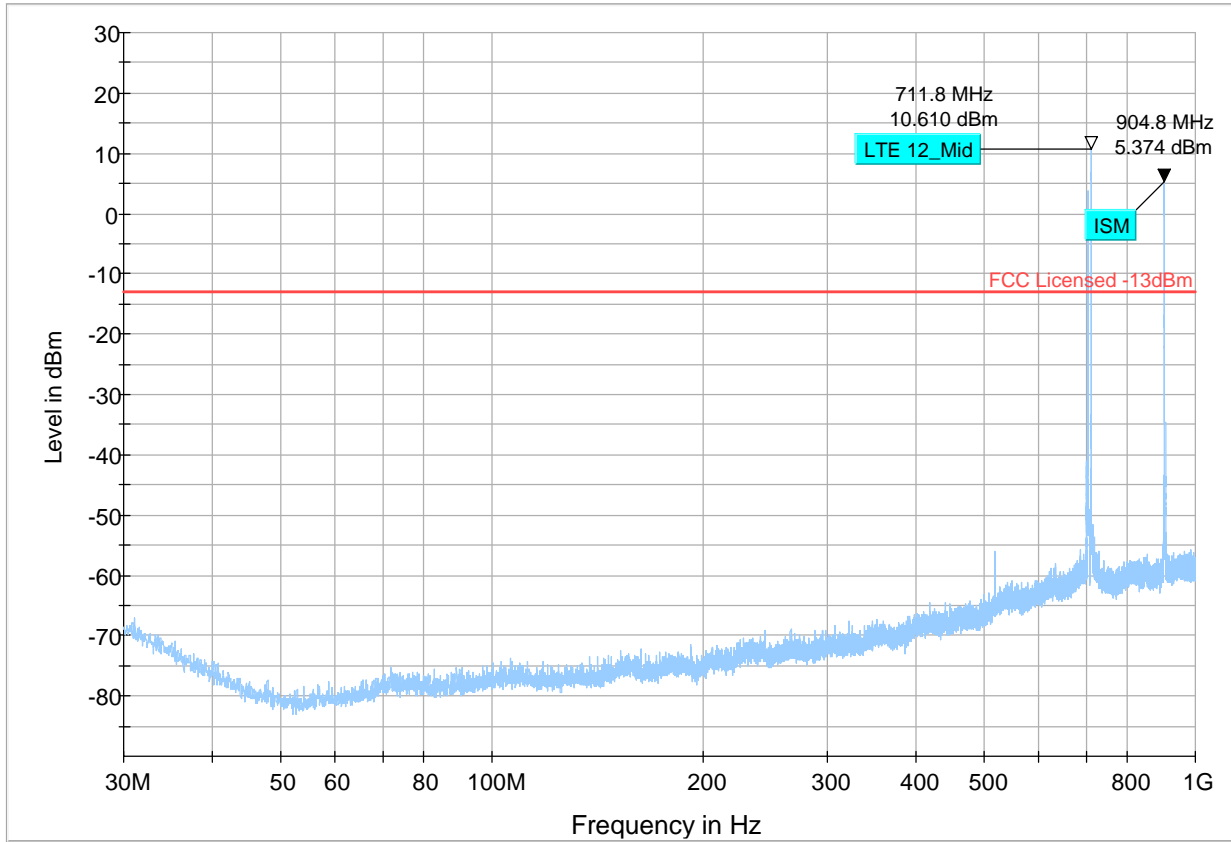


— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS



Plot # 26

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

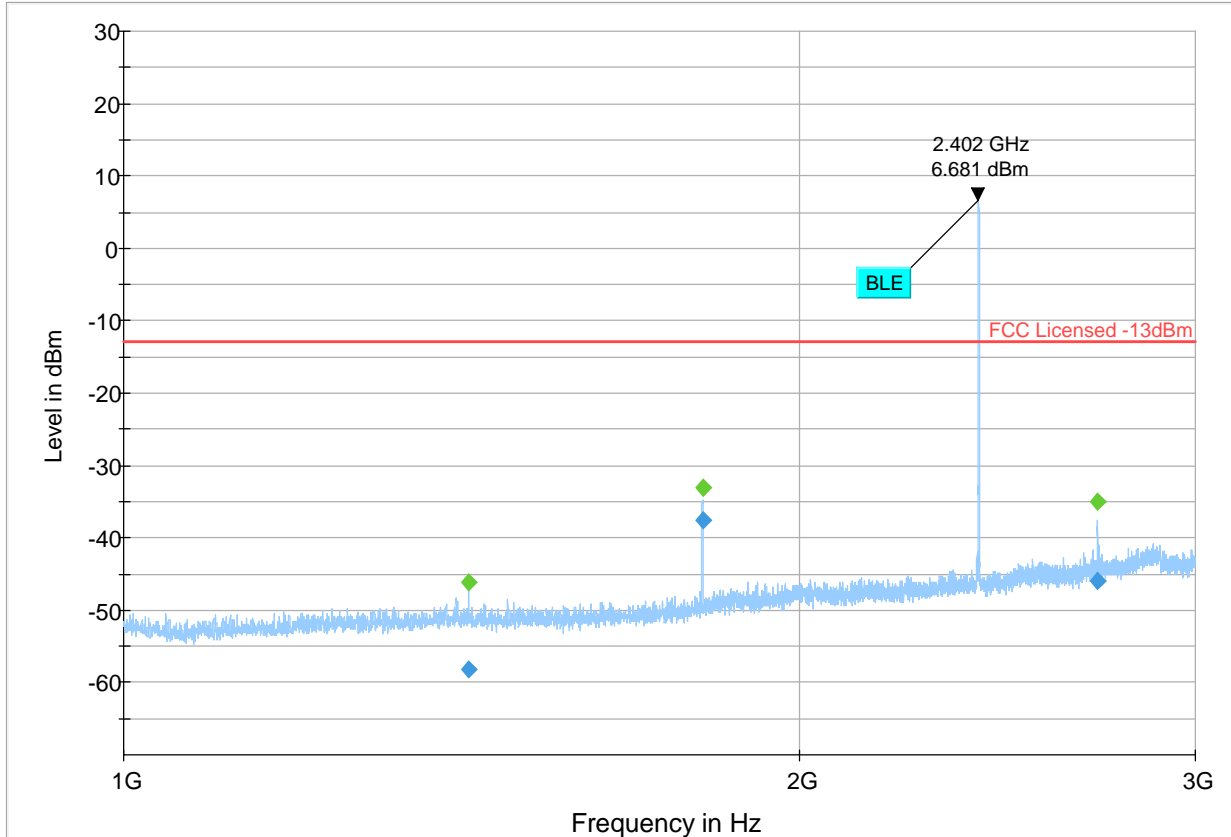


— Preview Result 1-PK+
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RM



Plot # 27

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1423.750	---	-46.27	---	---	500.0	1000.000	247.0	H	-3.0	-66.4
1423.750	-58.28	---	-13.00	45.28	500.0	1000.000	247.0	H	-3.0	-66.4
1810.250	---	-33.10	---	---	500.0	1000.000	151.0	V	306.0	-64.7
1810.250	-37.56	---	-13.00	24.56	500.0	1000.000	151.0	V	306.0	-64.7
2714.750	---	-35.08	---	---	500.0	1000.000	142.0	H	-10.0	-61.3
2714.750	-45.93	---	-13.00	32.93	500.0	1000.000	142.0	H	-10.0	-61.3

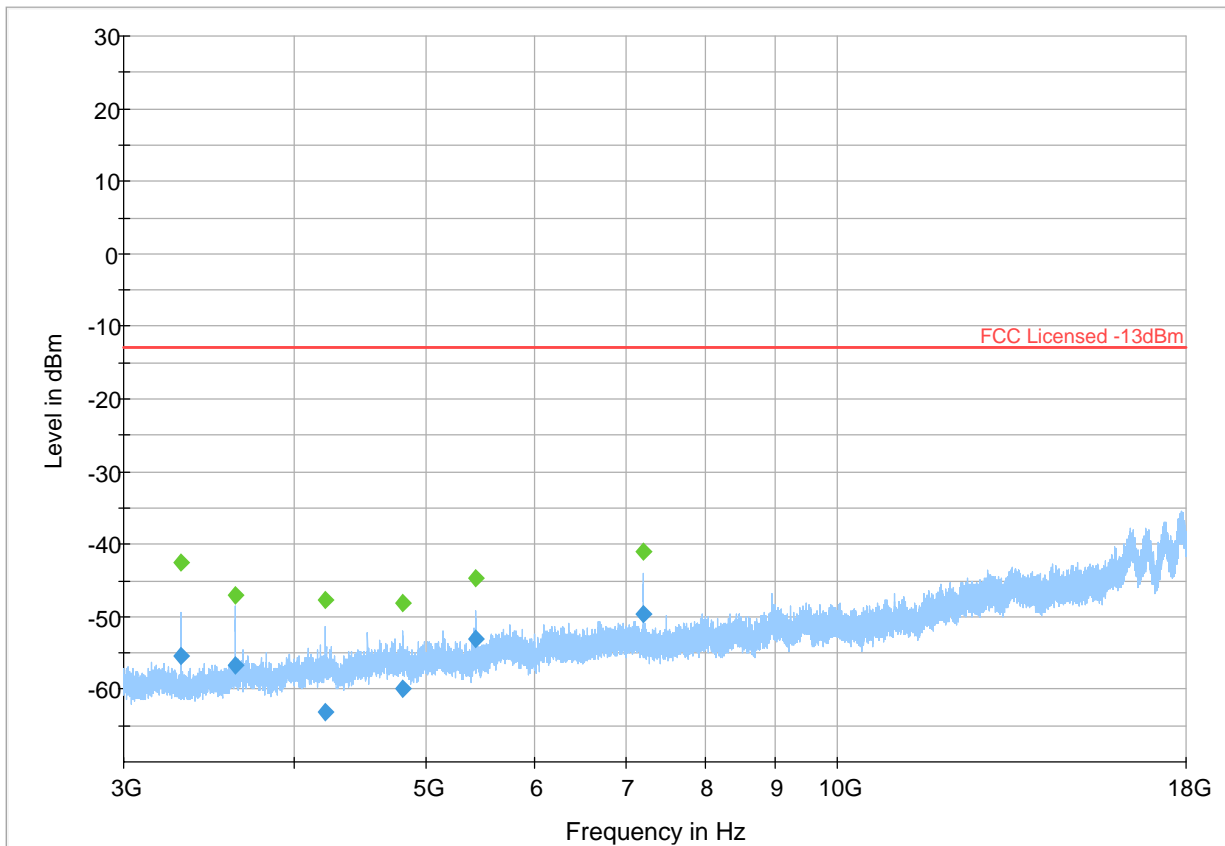


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK



Plot # 28

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3307.000	-55.50	---	-13.00	42.50	500.0	1000.000	234.0	H	1.0	-103.3
3307.000	---	-42.55	---	---	500.0	1000.000	234.0	H	1.0	-103.3
3620.500	-56.69	---	-13.00	43.69	500.0	1000.000	125.0	H	196.0	-101.1
3620.500	---	-47.02	---	---	500.0	1000.000	125.0	H	196.0	-101.1
4211.250	-63.11	---	-13.00	50.11	500.0	1000.000	230.0	H	340.0	-99.2
4211.250	---	-47.62	---	---	500.0	1000.000	230.0	H	340.0	-99.2
4803.250	-59.86	---	-13.00	46.86	500.0	1000.000	169.0	H	330.0	-98.4
4803.250	---	-48.14	---	---	500.0	1000.000	169.0	H	330.0	-98.4
5431.000	-53.05	---	-13.00	40.05	500.0	1000.000	100.0	V	325.0	-97.7
5431.000	---	-44.65	---	---	500.0	1000.000	100.0	V	325.0	-97.7
7206.500	-49.67	---	-13.00	36.67	500.0	1000.000	161.0	H	6.0	-95.8
7206.500	---	-41.04	---	---	500.0	1000.000	161.0	H	6.0	-95.8

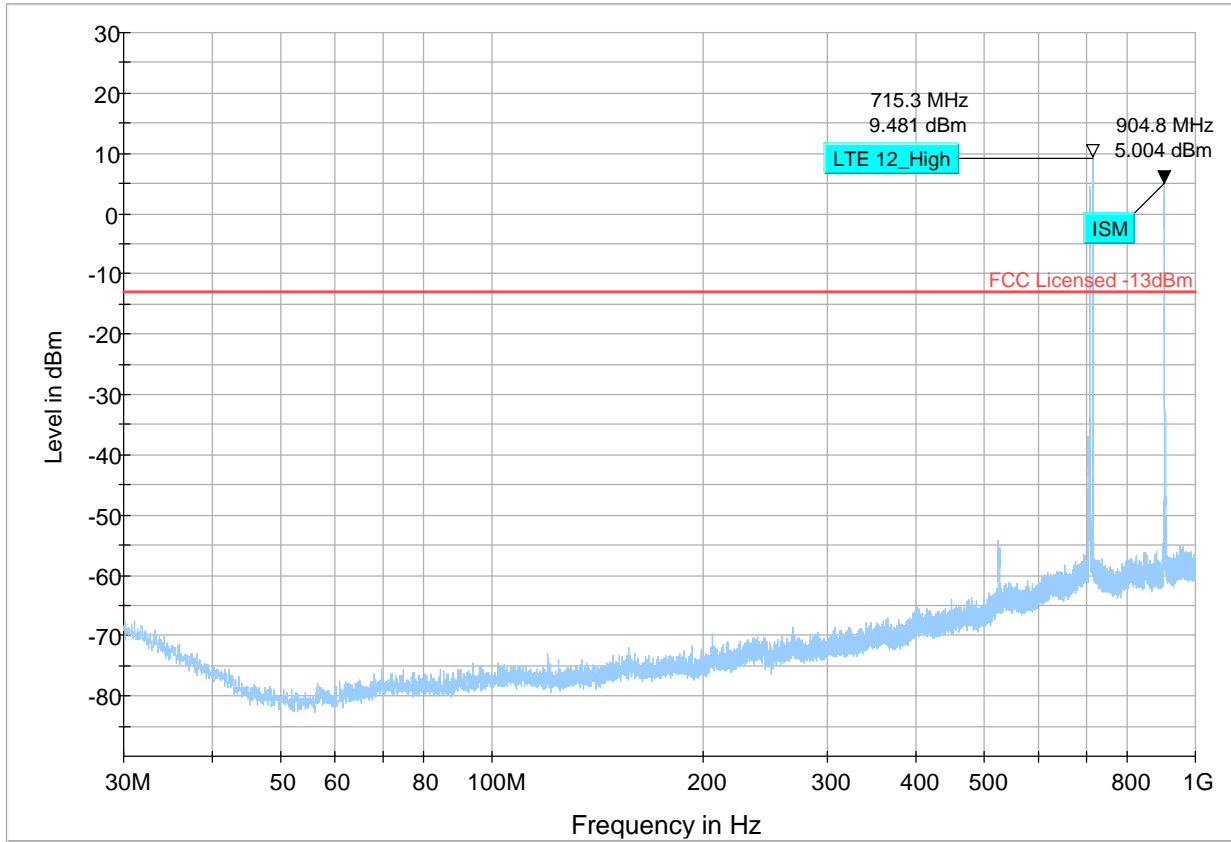


Preview Result 1-PK+ FCC Licensed -13dBm Final_Result RMS Final_Result PK



Plot # 29

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

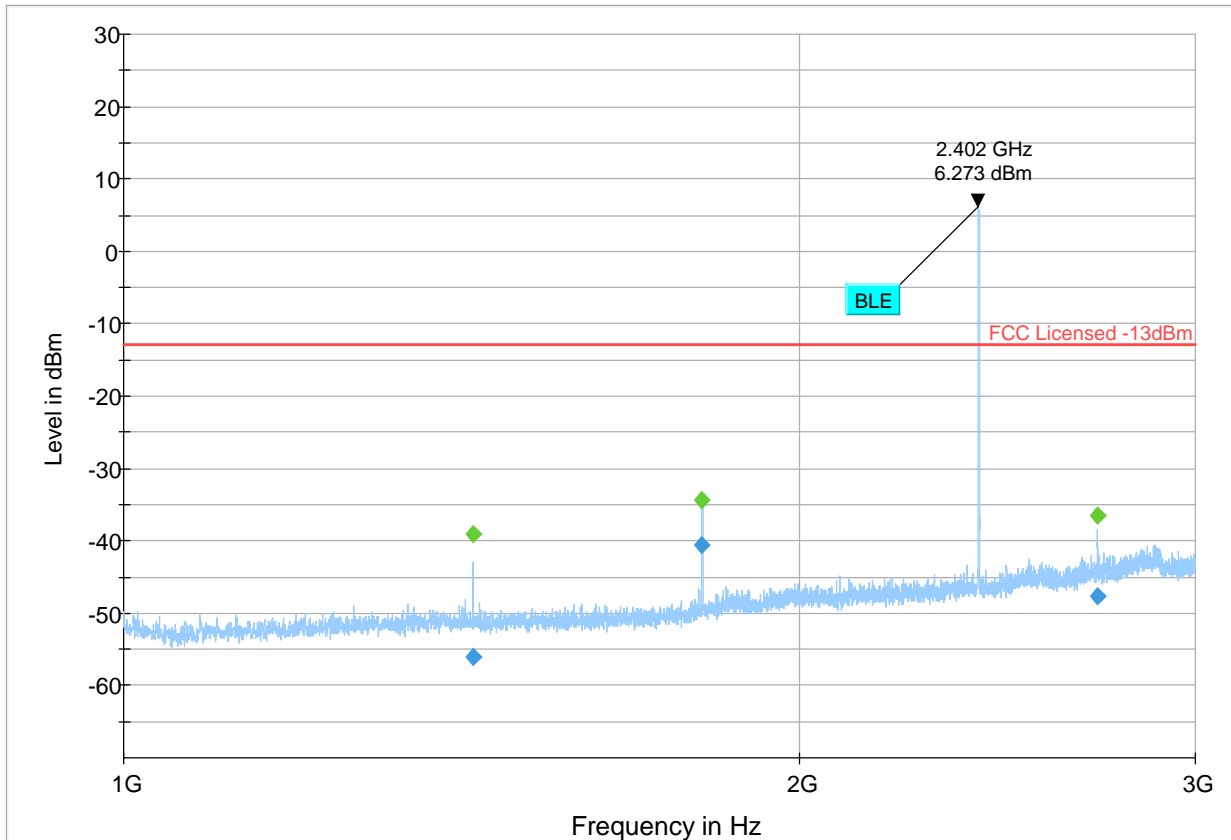


— Preview Result 1-PK+
 * Critical_Freqs PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RM



Plot # 30

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1430.500	-56.03	---	-13.00	43.03	500.0	1000.000	189.0	H	240.0	-66.4
1430.500	---	-38.99	---	---	500.0	1000.000	189.0	H	240.0	-66.4
1809.500	-40.55	---	-13.00	27.55	500.0	1000.000	193.0	V	78.0	-64.7
1809.500	---	-34.36	---	---	500.0	1000.000	193.0	V	78.0	-64.7
2714.500	---	-36.59	---	---	500.0	1000.000	125.0	H	-45.0	-61.3
2714.500	-47.62	---	-13.00	34.62	500.0	1000.000	125.0	H	-45.0	-61.3

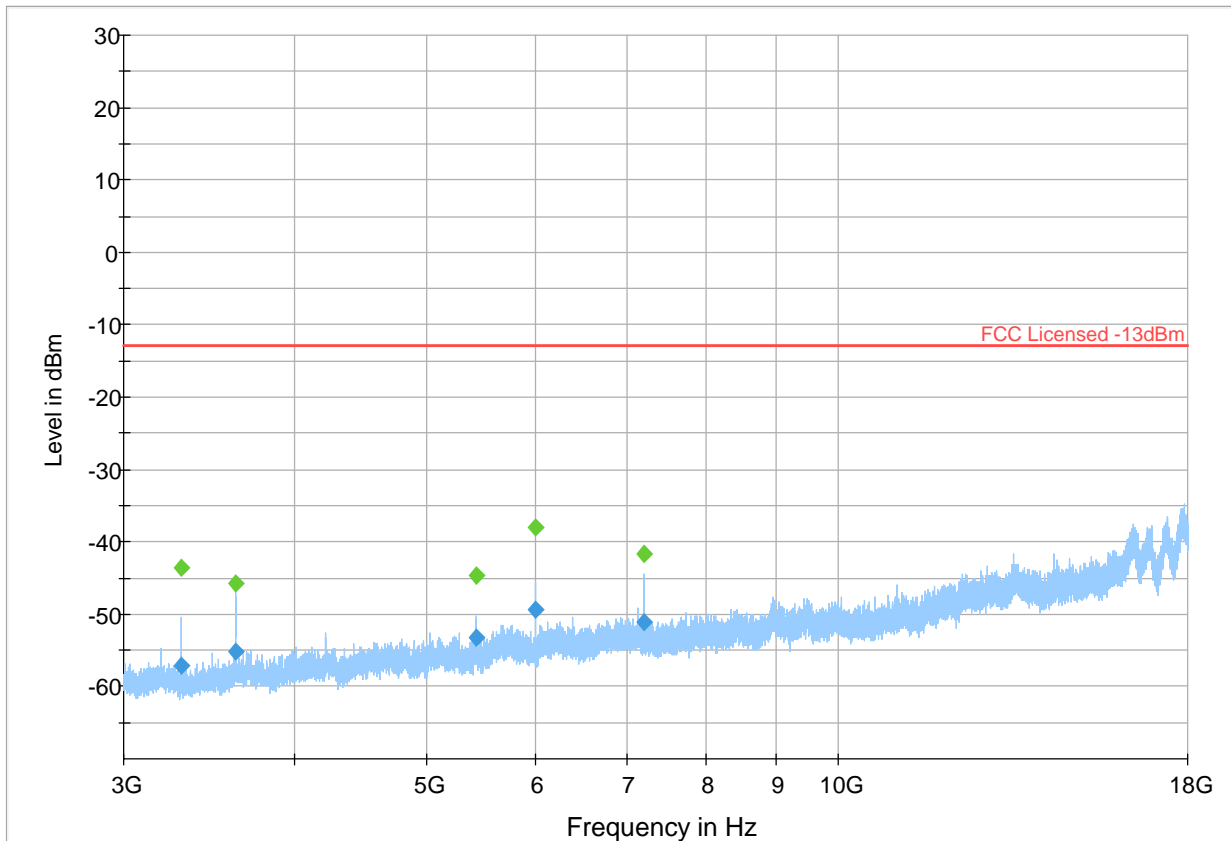


— Preview Result 1-PK+
 — FCC Licensed -13dBm
 ◆ Final_Result RMS
 ◆ Final_Result PK



Plot # 31

Frequency (MHz)	RMS (dBm)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3306.750	---	-43.60	---	---	500.0	1000.000	228.0	H	-10.0	-103.3
3306.750	-57.13	---	-13.00	44.13	500.0	1000.000	228.0	H	-10.0	-103.3
3619.000	---	-45.77	---	---	500.0	1000.000	107.0	H	116.0	-101.2
3619.000	-55.22	---	-13.00	42.22	500.0	1000.000	107.0	H	116.0	-101.2
5428.750	---	-44.72	---	---	500.0	1000.000	100.0	V	20.0	-97.7
5428.750	-53.24	---	-13.00	40.24	500.0	1000.000	100.0	V	20.0	-97.7
5999.750	---	-38.08	---	---	500.0	1000.000	266.0	V	168.0	-97.1
5999.750	-49.30	---	-13.00	36.30	500.0	1000.000	266.0	V	168.0	-97.1
7205.250	---	-41.75	---	---	500.0	1000.000	151.0	H	5.0	-95.8
7205.250	-51.16	---	-13.00	38.16	500.0	1000.000	151.0	H	5.0	-95.8



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_TELUL-101-21001_FCC_Setup_Photos.pdf"

9 Test Equipment And Ancillaries Used For Testing

Equipment Name/Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
Biconilog Antenna	A.H. Systems	BiLA2G	569343	2 years	12/01/2020
Horn Antenna	ETS Lindgren	3115	35114	2 years	10/10/2020
Horn Antenna	ETS Lindgren	3117-PA	215984	2 years	01/31/2021
Active Loop Antenna	ETS Lindgren	6507	161344	2 years	10/30/2020
Horn Antenna	ETS Lindgren	3116C	70497	2 years	11/23/2020
Spectrum Analyzer	R&S	ESU40	100251	2 years	09/13/2021
Wideband Comm. Tester	R&S	CMW 500	109825	2 years	09/23/2020
Thermometer Humidity Monitor	CONTROL COMPANY	36934-164	191871986	2 years	10/20/2021

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	Template Revision	Changes to report	Prepared by
2022-01-12	EMC_TELUL-101-21001_FCC_24_27	Initial Version	Cheng Song

<<< The End >>>