



FCC Test Report

For:

Qwake Technologies Inc.

Brand:

Qwake Tech

Marketing Name:

CThru Navigator

Model Number:

Navigator 1

Product Description:

Wireless Firefighter Vision and Communication Assistant

FCC ID: 2BH7A-QW-NAV-1R0-24

Per:

KDB 996369 D04 Module Integration Guide V02

REPORT #: EMC_QWAKE_003_25001_KDB996369

DATE: 7/21/2025



A2LA Accredited

IC recognized #
3462B

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	4
2.1	IDENTIFICATION OF THE TESTING LABORATORY ISSUING THE EMC TEST REPORT	4
2.2	IDENTIFICATION OF THE CLIENT	4
2.3	IDENTIFICATION OF THE MANUFACTURER	4
3	EQUIPMENT UNDER TEST (EUT)	5
3.1	EUT SPECIFICATIONS	5
3.2	EUT SAMPLE DETAILS	6
3.3	ACCESSORY EQUIPMENT (AE) DETAILS	6
3.4	TEST SAMPLE CONFIGURATION	6
3.5	MODE OF OPERATION DETAILS	7
3.6	JUSTIFICATION FOR MODE OF OPERATION	7
4	SUBJECT OF INVESTIGATION	8
5	MEASUREMENT UNCERTAINTY	8
5.1	ENVIRONMENTAL CONDITIONS DURING TESTING:	8
5.2	DATES OF TESTING:	8
5.3	DECISION RULE:	8
6	MEASUREMENT PROCEDURES	9
6.1	RADIATED MEASUREMENT	9
6.2	RADIATED MEASUREMENT DIAGRAMS	9
6.3	SAMPLE CALCULATIONS FOR FIELD STRENGTH MEASUREMENTS	10
7	MEASUREMENT RESULTS SUMMARY	11
8	TEST RESULT DATA	12
8.1	RADIATED SPURIOUS EMISSIONS	12
9	TEST SETUP PHOTOS	37
10	TEST EQUIPMENT AND ANCILLARIES USED FOR TESTING	37
11	REVISION HISTORY	38

1 Assessment

The following device, as further described in section 3 of this report, was evaluated according to the criteria specified in the KDB 996369 D04 Module Integration Guide V02.

No deficiencies were ascertained.

According to section 7 of this report, the overall result is PASS.

Company	Description	Model #
Qwake Technologies Inc.	Wireless Firefighter Vision and Communication Assistant	Navigator 1

Responsible for Testing Laboratory:

Ilarina, Alvin			
7/21/2025	Compliance	(Senior Manager Regulatory Services)	
Date	Section	Name	Signature

Responsible for the Report:

Ghanma, Issa			
7/21/2025	Compliance	(Lab Manager EMC)	
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
Senior Manager Regulatory Services:	Ilarina, Alvin
Responsible Project Leader:	Hao, Shane

2.2 Identification of the Client

Applicant's Name:	Qwake Technologies Inc.
Street Address:	2632 Larkin St, Apt #6
City/Zip Code	San Francisco, CA 94109
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

Brand:	Qwake Tech	
Model No:	Navigator 1	
Marketing name:	CThru Navigator	
FCC ID:	• 2BH7A-QW-NAV-1R0-24 • Contains FCC ID: - o XMR202008EC25AFXD	
Hardware Version:	1.0.0	
Software Version:	1.0.30	
Firmware Version:	47-1.3.1	
Product Description:	Wireless Firefighter Vision and Communication Assistant	
Radios included in the device information:	• <u>Cellular/GNSS radio:</u> Quectel EC25-AFXD - o FCC ID: XMR202008EC25AFXD - o Technology/Modulation: ▪ WCDMA Band II, IV, V (Disabled) ▪ LTE FDD Band 2, 4, 5, 12, 13, 14, 66, 71 • <u>BT BR/EDR, BT LE, WLAN, GPS:</u> Lantronix Open-Q 865XR SOM (FCC ID: R68OQ865S) - o BT BR/EDR, BT LE, WLAN, GPS (Disabled) • <u>NFC:</u> NXP PN7160A1HN/C100E - o FCC ID: 2BH7-QW-NAV-1R0-24 - o Modulation: ASK	
Frequency Range:	Band	TX (MHz)
	LTE 2	1850 ~ 1910
	LTE 4	1710 ~ 1755
	LTE 5	824 ~ 849
	LTE 12	699 ~ 716
	LTE 13	777 ~ 787
	LTE 14	788 ~ 798
	LTE 66	1710 ~ 1780
	LTE 71	663 ~ 698
	NFC	13.56
Power Supply/ Rated Operating Voltage Range:	3.2 V LiFePO4 battery. 110V 60Hz AC for USB-C Charger.	
Operating Temperature Range:	T min: 0 °C / T Nom: 20 °C / T max: +95 °C	
Sample Revision:	☐ Production Unit; ☒ Pre-Production;	
EUT Dimensions (cm):	☐ < 60 cm; ☒ Other: Approx 46 long x 29 wide x 10 tall	

Antenna specifications as declared:	- Cellular: YF0020EA - Frequency range: 600-6000 MHz - Gain: ≤ 3.6 (dBi) - Polarization Type: Linear - NFC*1: - Part Number: 1462360001 - Type: Rectangular Near Field Communication (NFC), without Ferrite 15.00mm by 25.00mm by 0.17mm - Series Number
Note: The information of the EUT specifications in the table above is provided by the applicant. Refer to the Operational Description 'Operational Description R1.2' *1: Refer to the antenna datasheet 'Molex 1462360001 RFID Antenna'	

3.2 EUT Sample details

EUT #	S/N	HW Version	SW Version	Details	Notes/Comments
1	CM: 246800046	1.0.0	1.0.30	Part number: 9341-16254-001/A IMEI: 862044070555110	CM: Compute Module
2	RFID: 246900043	1.0.0	1.0.30	Part number: 9341-16256-001/A	Tag
3	VM: 246600214	1.0.0	1.0.30	Part number: 9341-16251-900 With ferrite # 0461167281	VM: Vision Module

3.3 Accessory Equipment (AE) details

AE #	Type	Model	Manufacturer	S/N	Notes/Comments
1	AC Adapter	AQ15A-050B	PHIHONG	V241201094A1	Input: 100-240V ~50-60Hz 0.5A Output: 5.0V 3.0A 15W
2	USB-C to USB-C cable	-	-	-	2.0 Generic 6 Feet long

3.4 Test Sample Configuration

EUT Set-up #	Combination of AE used for test setup	Comments
1	EUT # 1 + EUT # 2 + EUT # 3	Radiated emissions

3.5 Mode of Operation details

Mode of Operation	Description of Operating modes	Additional Information
Op. 1	Cellular + RFID	• The base station simulator was used to establish a continuous connection with the EUT on a fixed band with the ability to configure the channel, modulation, Bandwidth, number of resource blocks, and maximum power. - o LTE 2: QPSK, 1880 MHz, 10 MHz Bandwidth, 1 Resource Block - o LTE 4: QPSK, 1753.5 MHz, 3 MHz Bandwidth, 1 Resource Block - o LTE 5: QPSK, 836.6 MHz, 10 MHz Bandwidth, 1 Resource Block - o LTE 12: QPSK, 714.5 MHz, 3 MHz Bandwidth, 1 Resource Block - o LTE 13: QPSK, 782 MHz, 10 MHz Bandwidth, 1 Resource Block - o LTE 14: QPSK, 795 MHz, 5 MHz Bandwidth, 1 Resource Block - o LTE 66: QPSK, 1745 MHz, 15 MHz Bandwidth, 2 Resource Blocks - o LTE 71: QPSK, 668 MHz, 10 MHz Bandwidth, 2 Resource Blocks • RFID is continuously reading the tag.

3.6 Justification for Mode of Operation

For each test case in this report, the worst-case mode of operation was chosen based on the mode that exhibited the least margin relative to the specified limit or requirement derived from the conducted tests or module reports.

The operational mode(s) outlined in section 3.5 of this document and specified in the "Test conditions and setup" section of each test within this document.

For radiated measurements, all data in this report show the worst case between horizontal and vertical antenna polarizations and EUT orientation.

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 section **Error! Reference source not found. Error! Reference source not found..**

5 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=2.

Measurement System		EMC-Lab 1	EMC-Lab 2
Conducted emissions (mains port)	150 kHz – 30 MHz	2.47 dB	N/A
Radiated emissions	9 kHz – 30 MHz	2.68 dB	2.53 dB
	30 – 100 MHz	4.39 dB	3.85 dB
	100 MHz – 1 GHz	5.65 dB	5.24 dB
	1 – 6 GHz	5.0 dB	4.88 dB
	6 – 18 GHz	4.76 dB	4.58 dB
	18 – 40 GHz	4.65 dB	4.61 dB

5.1 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.

5.2 Dates of Testing:

6/4/2025 – 6/26/2025

5.3 Decision Rule:

Cetecom advanced follows ILAC G8:2019 chapter 4.2.1 (Simple Acceptance Rule).

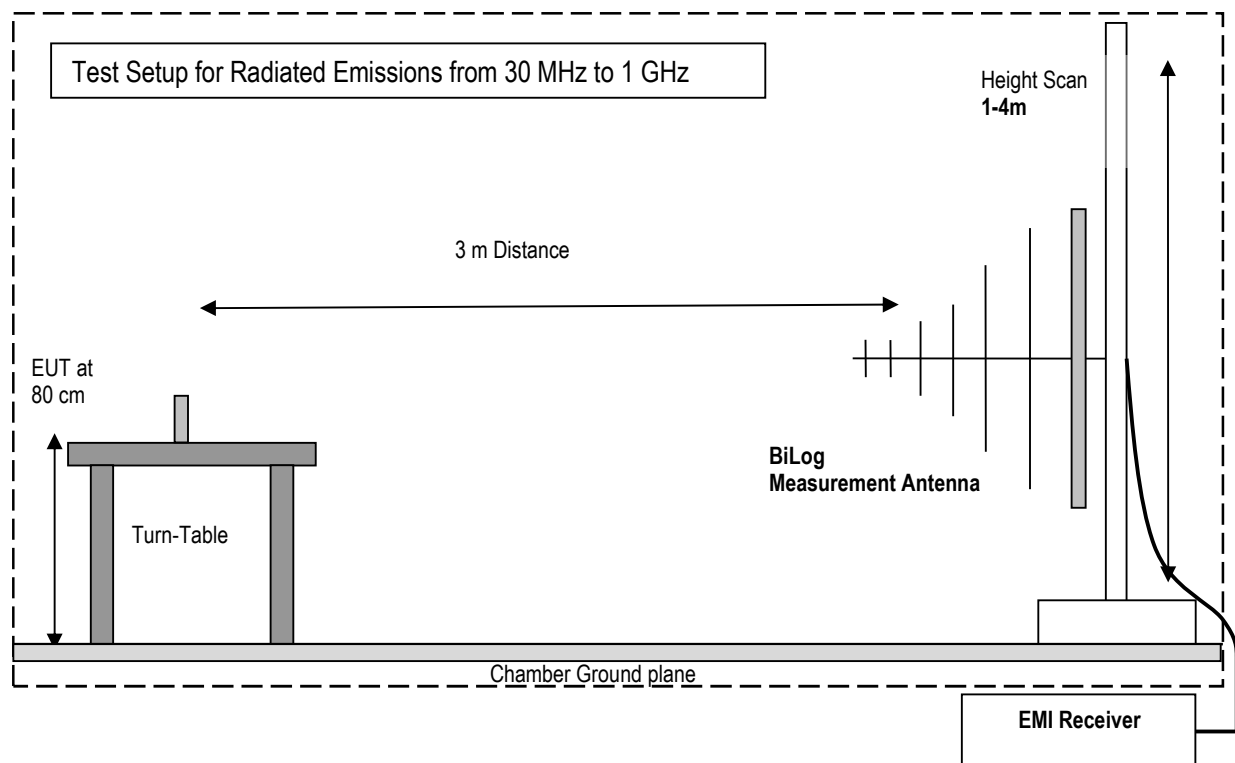
Only the measured values related to their corresponding limits will be used to decide whether the equipment under test meets the requirements of the test standards listed in chapter 3. The measurement uncertainty is mentioned in this test report, See chapter 9, but is not taken into account – neither to the limits nor to the measurement results. Measurement results with a smaller margin to the corresponding limits than the measurement uncertainty have a potential risk of more than 5% that the decision might be wrong.

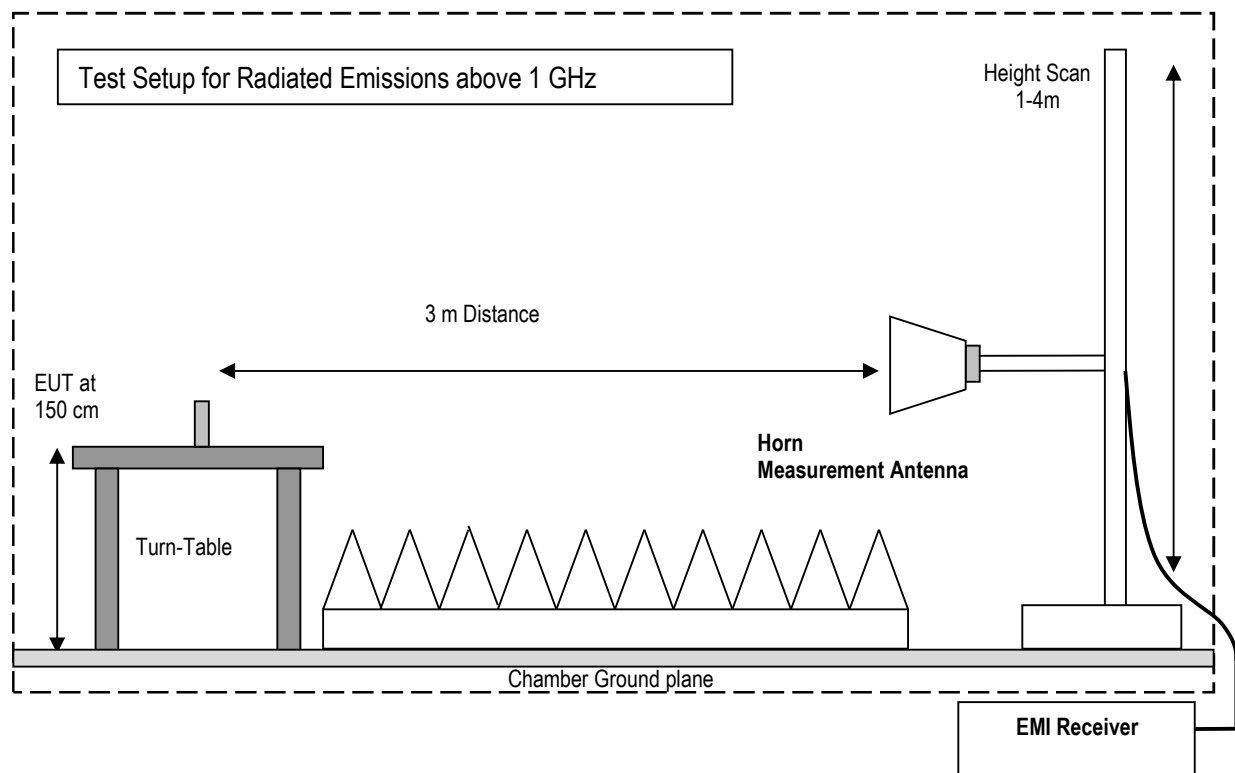
6 Measurement Procedures

6.1 Radiated Measurement

- The exploratory measurement is accomplished by running a matrix of sweeps over the required frequency range with R&S Test-SW EMC32 and continuous turntable movements during preview (360°), and both antenna polarizations (Horizontal/Vertical) at three antenna heights (1, 1.5, 2 meters). This procedure exceeds the requirement of the above standards to cover the 3 orthogonal axes of the EUT. A max peak detector is utilized during the exploratory measurement. The Test-SW creates an overall maximum trace for all sweeps and saves the settings for each point of this trace. The maximum trace is part of the test report.
- The 6 highest emissions (emission level 6 dB higher than the noise floor and margin to the limit < 20 dB) 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 maximum are then put through the final measurement and again maximized in a 90° range of the turntable, fine search in the frequency domain, and height scan between 1m and 4m.
- 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 2 frequency ranges due to antenna bandwidth restrictions. A Biconilog antenna is used from 30 MHz to 1 GHz, and two different horn antennas are used to cover frequencies up to 18 GHz.

6.2 Radiated Measurement diagrams





6.3 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

7 Measurement Results Summary

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Band	Applied Limit	Pass
KDB 996369 D04 Module Integration Guide V02	Out-of-band emissions	Nominal	Op.1	2	FCC §24.238(a)	☒
				4	FCC §27.53(h)(1)	☒
				5	FCC §22.917(a)	☒
				12	FCC §27.53(g)	☒
				13	FCC §27.53(c)(1)	☒
				14	FCC §90.543(c)	☒
				66	FCC §27.53(h)(1)	☒
				71	FCC §27.53(g)	☒

Note 1: Test methodologies and engineering judgement have been applied according to KDB 996369 D04 Module Integration Guide V02.

8 Test Result Data

8.1 Radiated Spurious Emissions

8.1.1 Measurement according to ANSI C63.26 2015

Spectrum Analyzer Settings

Frequency Range	30MHz – 1 GHz	1 – 18 GHz
Resolution Bandwidth	100 kHz	1 MHz
Pre-scan Detector	Peak	Peak
Final measurement Detector	RMS	RMS
Trace Mode	Max Hold	Max Hold
Sweep Time	Auto	Auto

8.1.2 Limits:

FCC Part 22.917 (a); FCC Part 24.238 (a); FCC Part 27.53 (c), (g), (h); FCC Part 90.543 (c).

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.

8.1.3 Test conditions and setup:

Ambient Temperature	EUT Set-Up #	EUT operating mode	Power Input
23.0°C	1	Op.1	3.2 V LiFePO4 Battery

8.1.4 Measurement result:

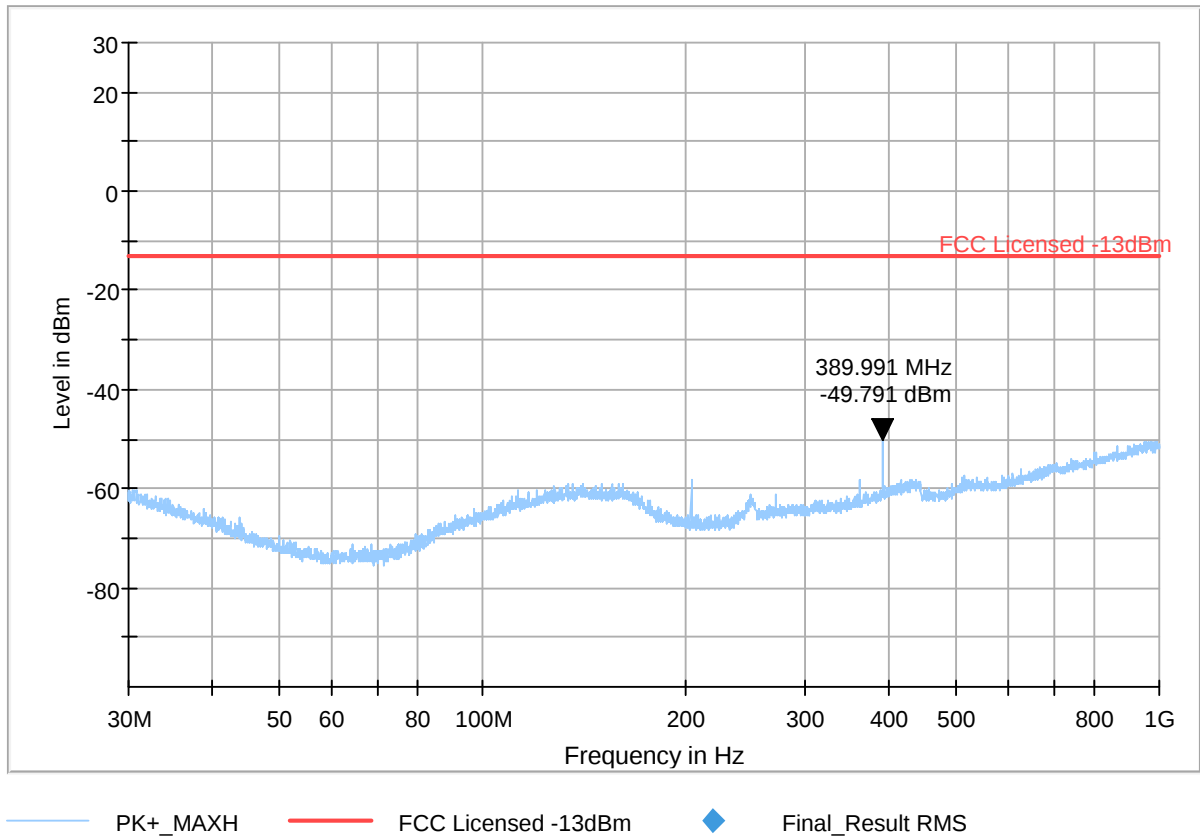
Plot #	LTE Channel #	EUT operating mode	Scan Frequency	Lowest margin emission [dBm]	Limit [dBm]	Result
1 – 3	18900	LTE Band 2 + RFID	30 MHz – 18 GHz	-38.26	-13	Pass
4 – 6	20385	LTE Band 4 + RFID	30 MHz – 18 GHz	-47.295	-13	Pass
7 – 9	20525	LTE Band 5 + RFID	30 MHz – 9 GHz	-38.178	-13	Pass
10 – 12	23165	LTE Band 12 + RFID	30 MHz – 9 GHz	-32.454	-13	Pass
13 – 15	23230	LTE Band 13 + RFID	30 MHz – 9 GHz	-30.698	-13	Pass
16 – 18	23355	LTE Band 14 + RFID	30 MHz – 9 GHz	-25.705	-13	Pass
19 – 21	132322	LTE Band 66 + RFID	30 MHz – 18 GHz	-33.429	-13	Pass
22 – 24	133172	LTE Band 71 + RFID	30 MHz – 9 GHz	-21.335	-13	Pass

8.1.5 Measurement plots:

LTE 2

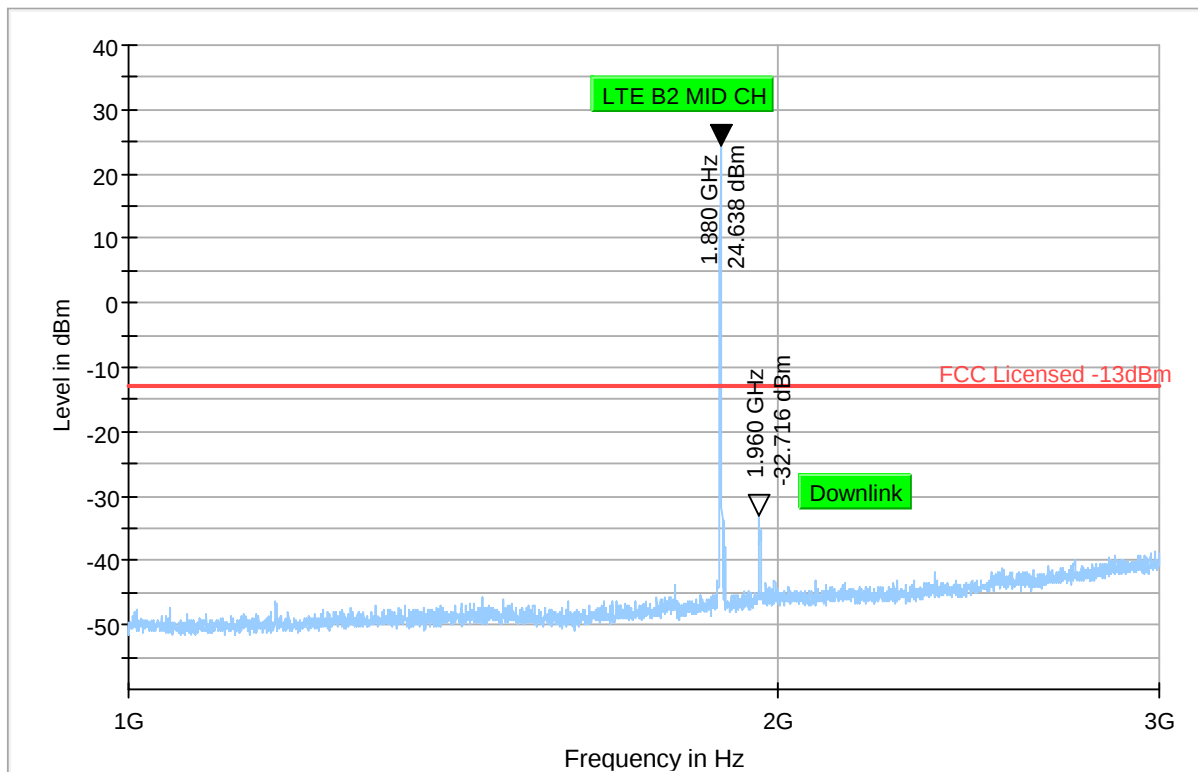
Plot # 1 Radiated Emissions: 30 MHz – 1 GHz

Channel: 18900



Plot # 2 Radiated Emissions: 1 GHz - 3 GHz

Channel: 18900



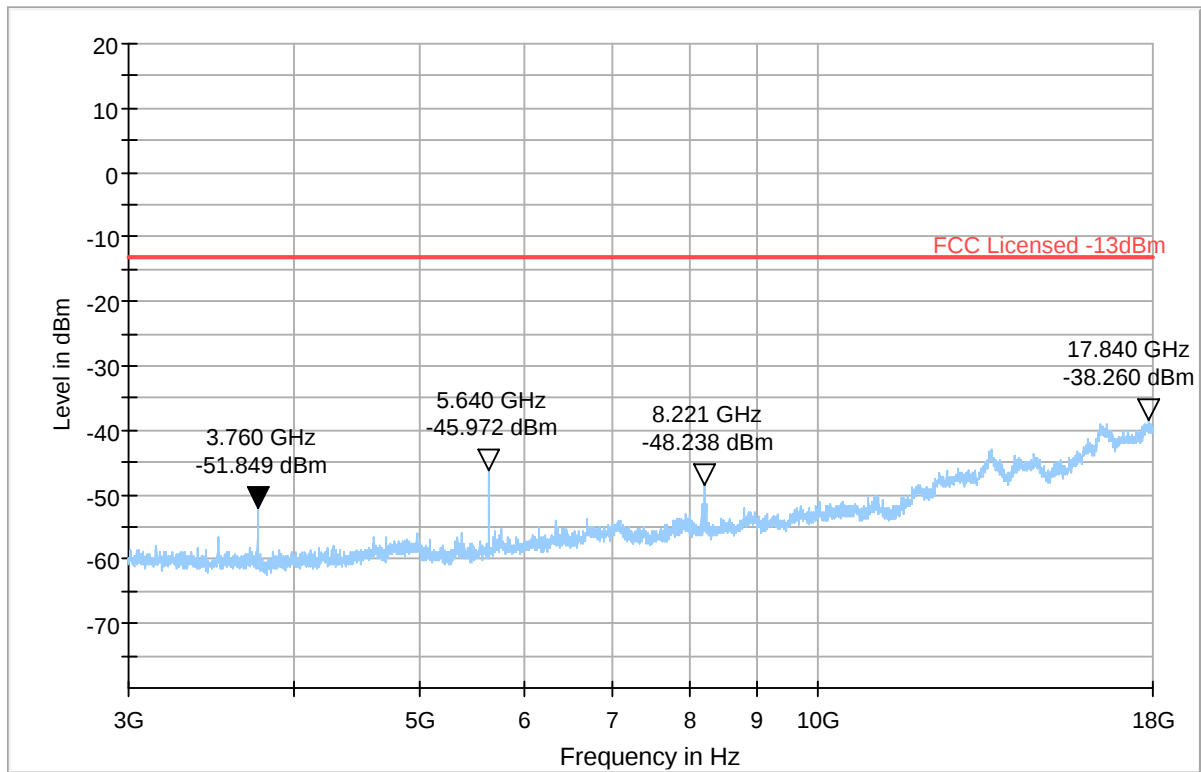
PK+_MAXH

FCC Licensed -13dBm

◆ Final_Result RMS

Plot # 3 Radiated Emissions: 3 GHz – 18 GHz

Channel: 18900

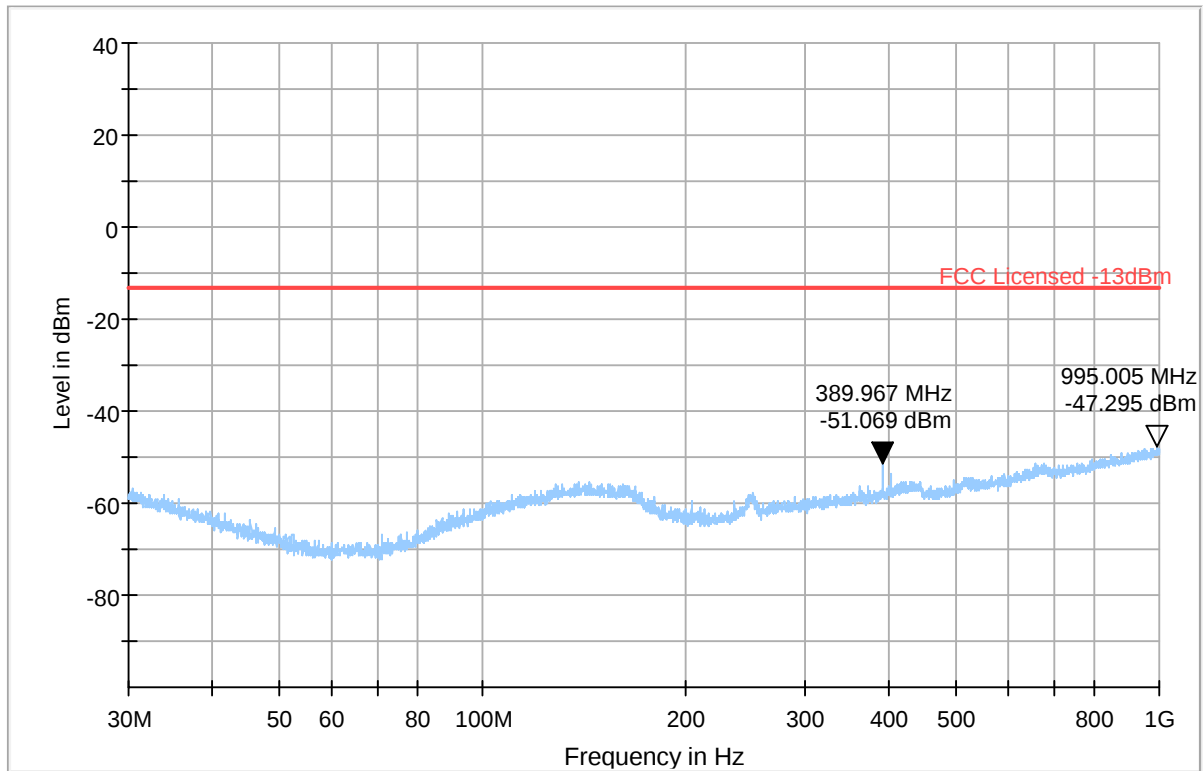


— PK+_MAXH — FCC Licensed -13dBm ◆ Final_Result RMS

LTE 4

Plot # 4 Radiated Emissions: 30 MHz – 1 GHz

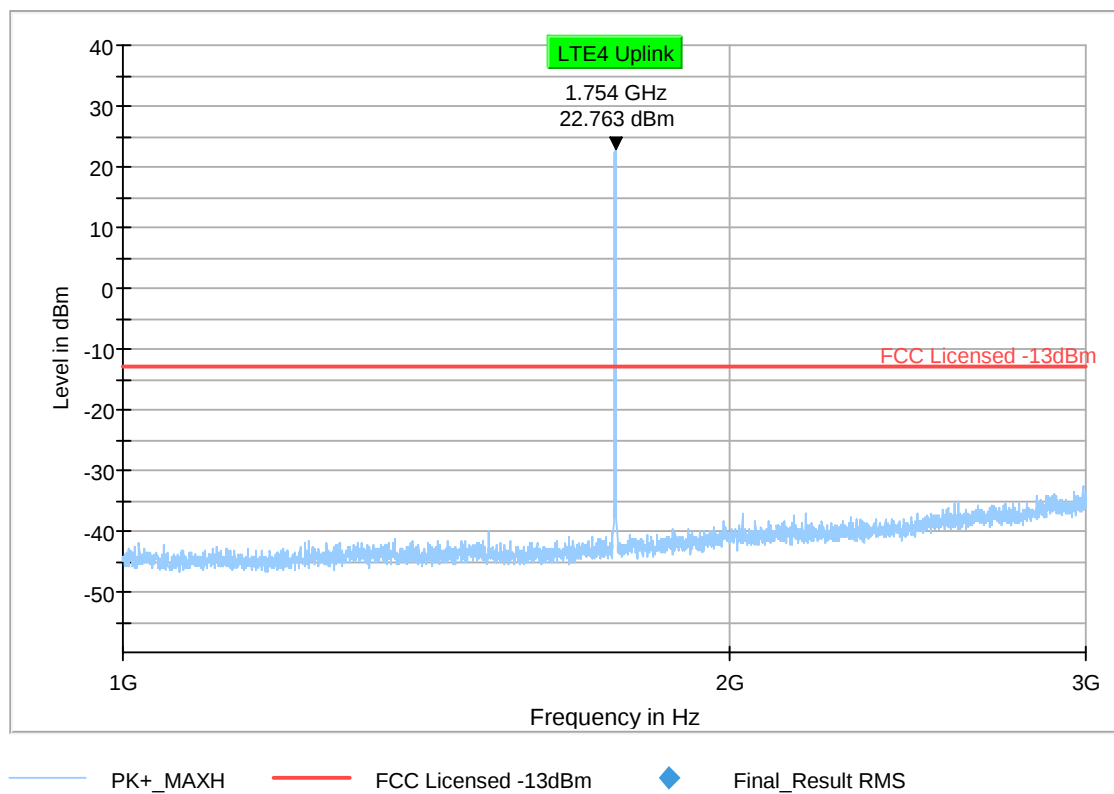
Channel: 20385



PK+_MAXH FCC Licensed -13dBm Final_Result RMS

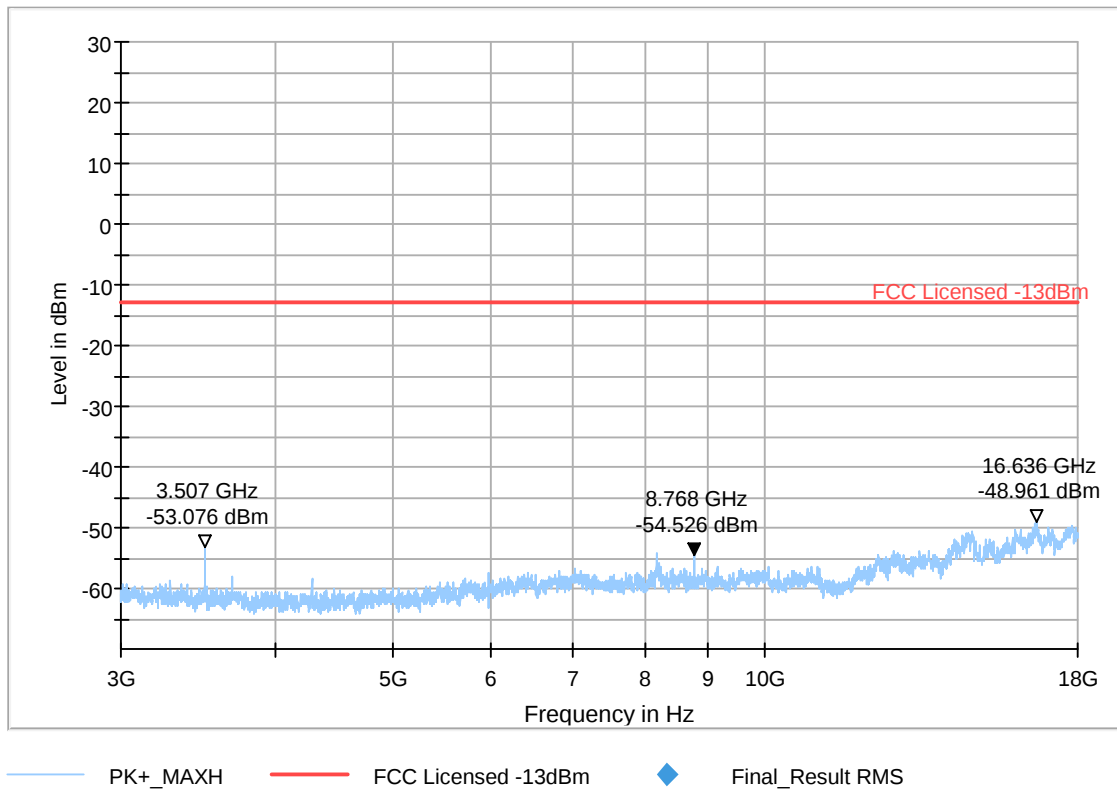
Plot # 5 Radiated Emissions: 1 GHz - 3 GHz

Channel: 20385



Plot # 6 Radiated Emissions: 3 GHz – 18 GHz

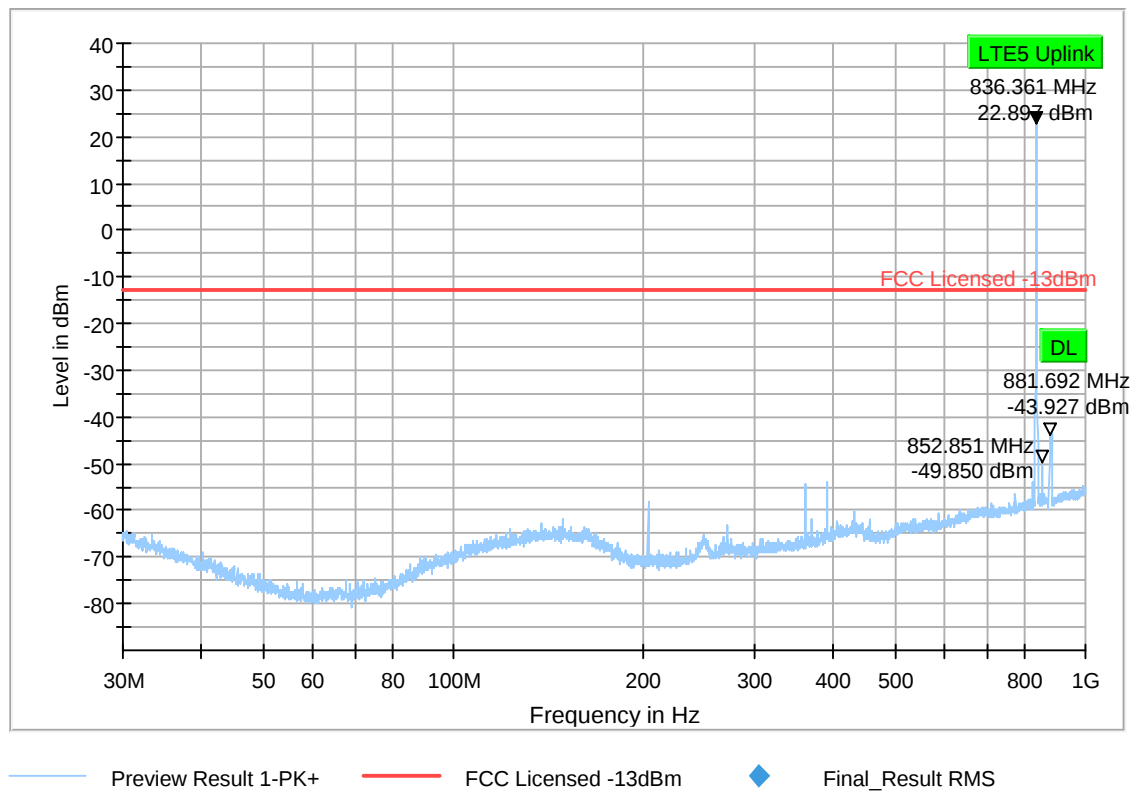
Channel: 20385



LTE 5

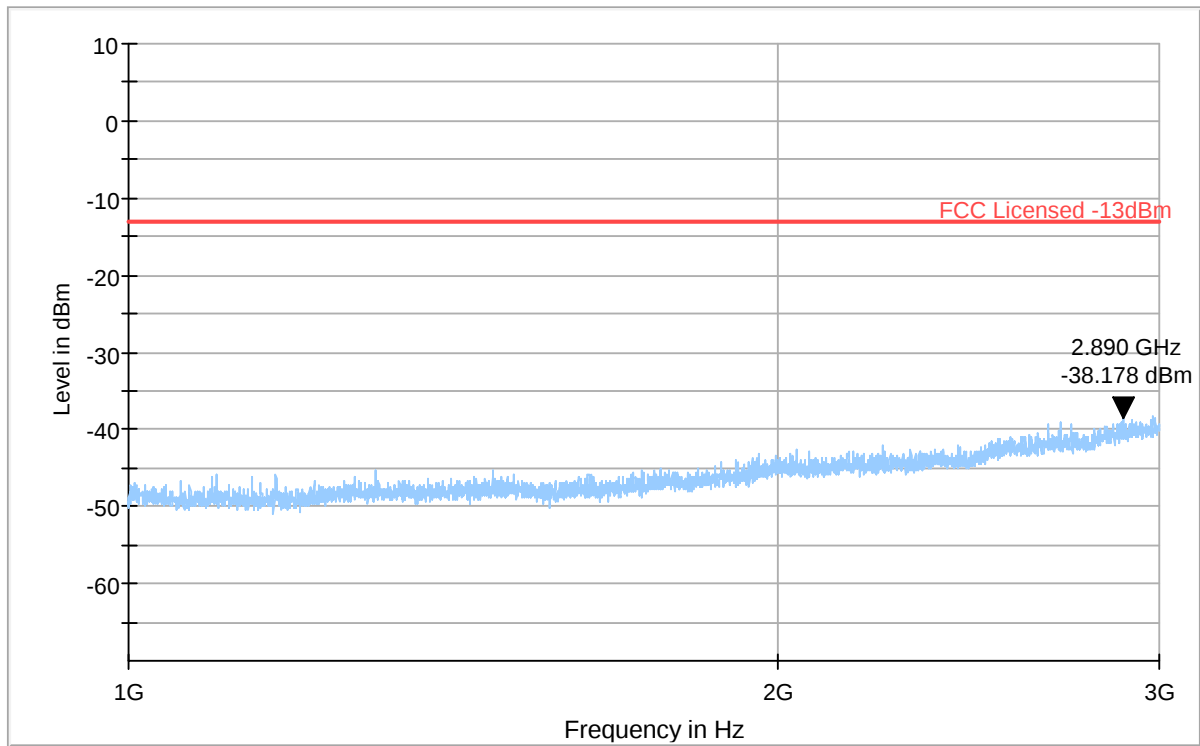
Plot # 7 Radiated Emissions: 30 MHz – 1GHz

Channel: 20525



Plot # 8 Radiated Emissions: 1 GHz - 3 GHz

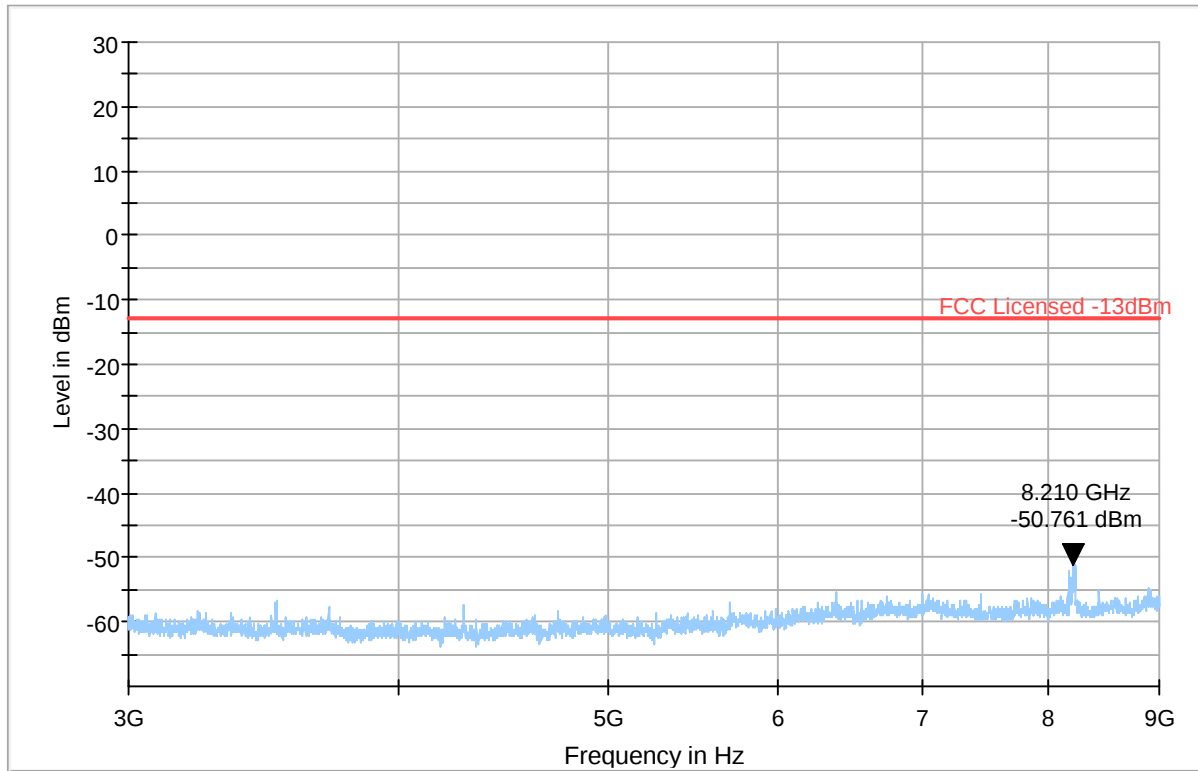
Channel: 20525



— PK+_MAXH * Critical_Freqs PK+
— FCC Licensed -13dBm ◆ Final_Result RMS

Plot # 9 Radiated Emissions: 3 GHz – 9 GHz

Channel: 20525



— PK+_MAXH

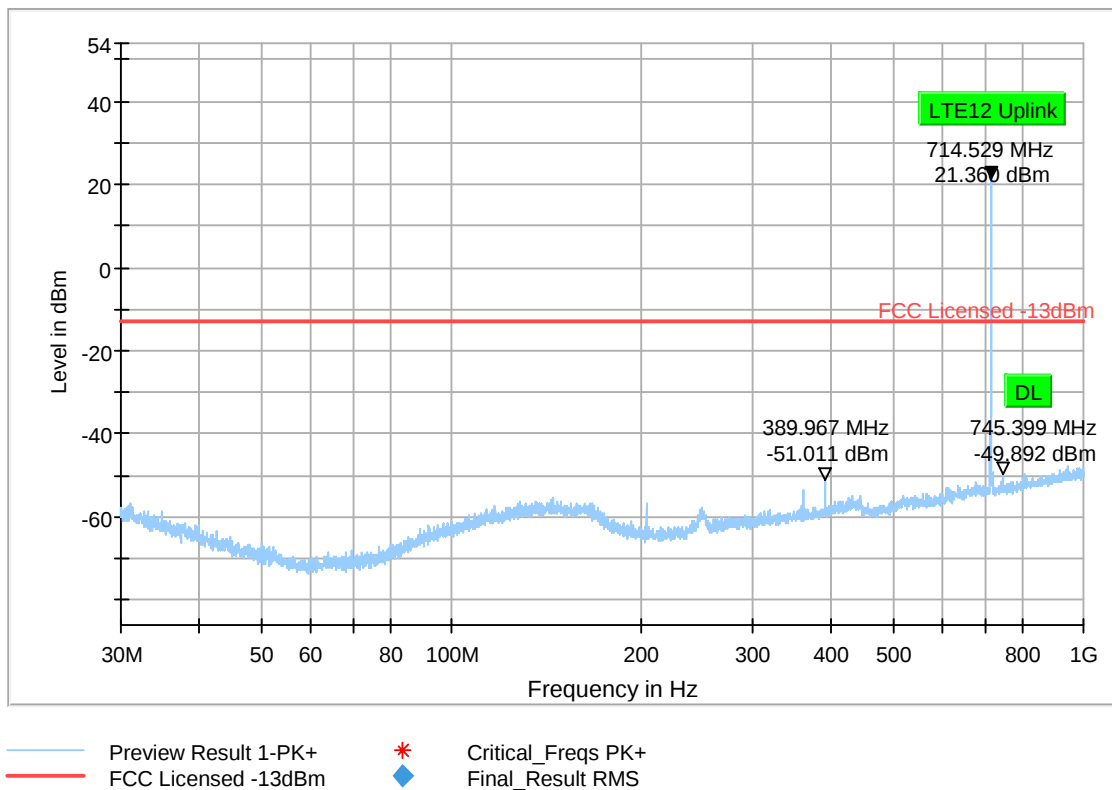
— FCC Licensed -13dBm

◆ Final_Result RMS

LTE 12

Plot # 10 Radiated Emissions: 30 MHz – 1 GHz

Channel: 23165

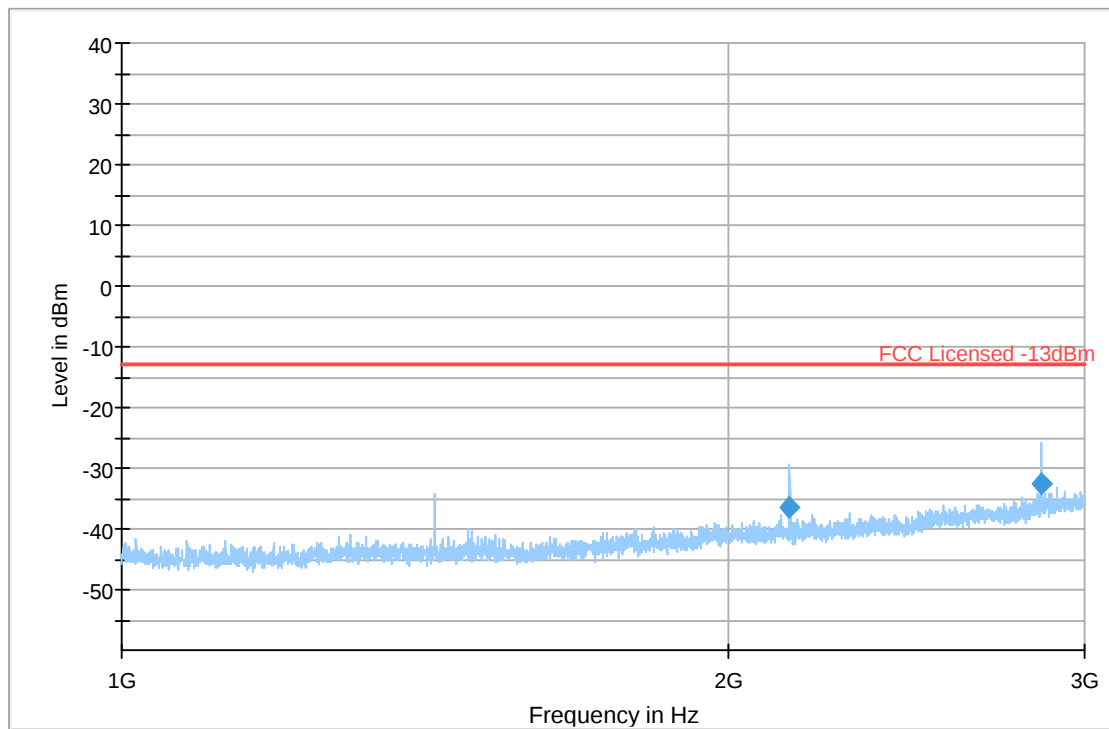


Plot # 11 Radiated Emissions: 1 GHz - 3 GHz

Channel: 23165

Final_Result

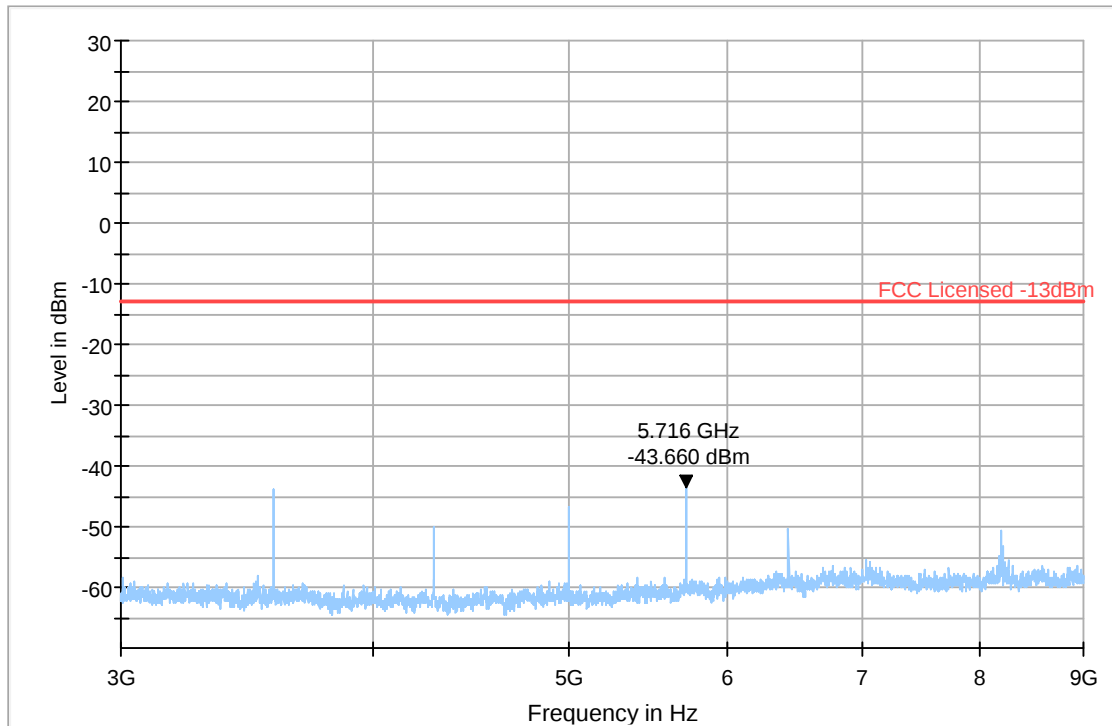
Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
2143.312	-36.516	-13.00	23.52	500.0	1000.0	197.0	H	97.0	-62.5	5.3	0.0	-67.8	26.0
2858.250	-32.454	-13.00	19.45	500.0	1000.0	100.0	V	151.0	-60.2	5.9	0.0	-66.1	27.7



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

Plot # 12 Radiated Emissions: 3 GHz – 18 GHz

Channel: 23165

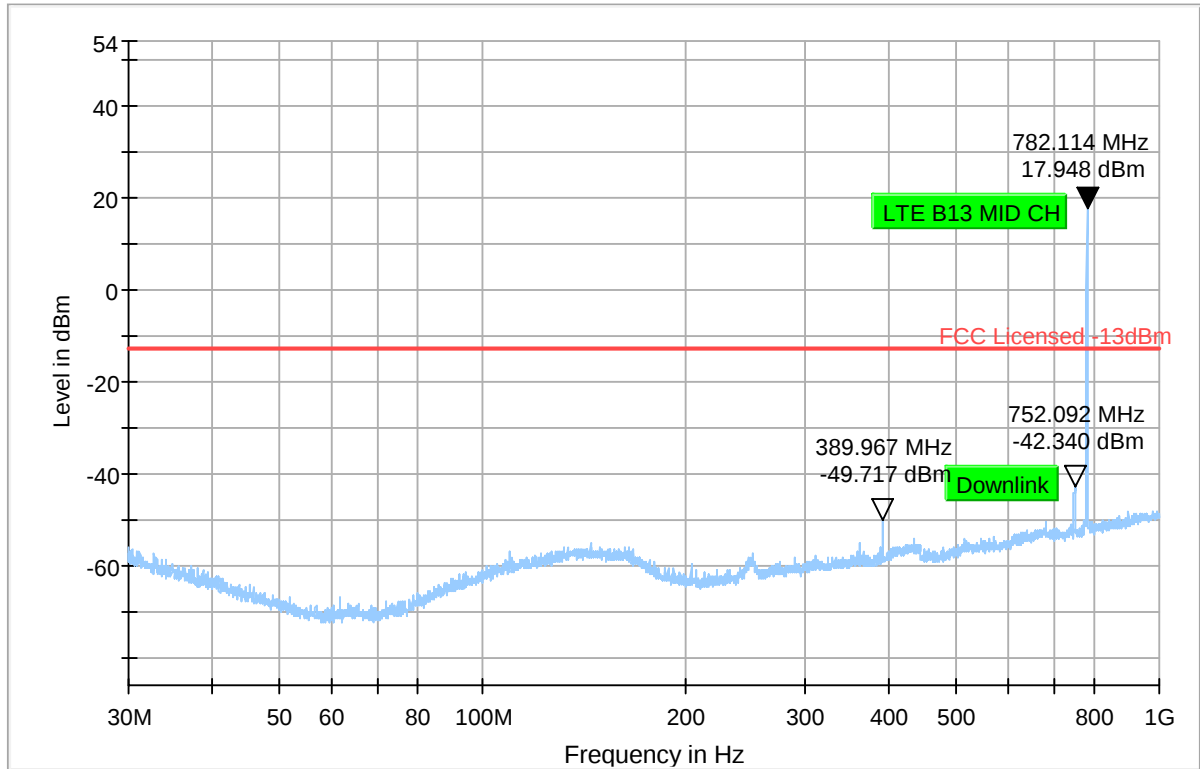


— Preview Result 1-PK+ — FCC Licensed -13dBm ◆ Final_Result RMS

LTE 13

Plot # 13 Radiated Emissions: 30 MHz – 1 GHz

Channel: 23230



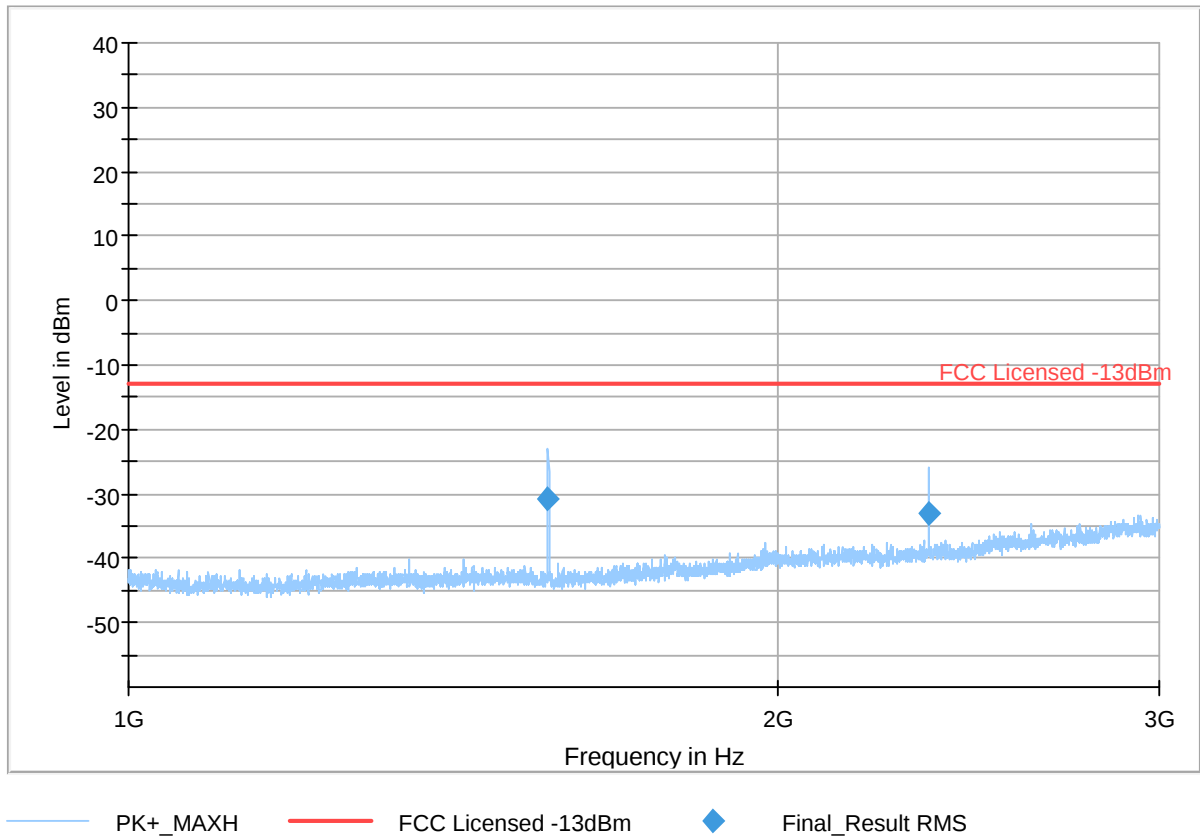
PK+_MAXH FCC Licensed -13dBm Final_Result RMS

Plot # 14 Radiated Emissions: 1 GHz - 3 GHz

Channel: 23230

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1564.250	-30.698	-13.00	17.70	500.0	1000.0	176.0	H	350.0	-65.5	4.5	0.0	-69.9	34.8
2346.750	-32.981	-13.00	19.98	500.0	1000.0	228.0	H	308.0	-62.1	5.3	0.0	-67.4	29.1

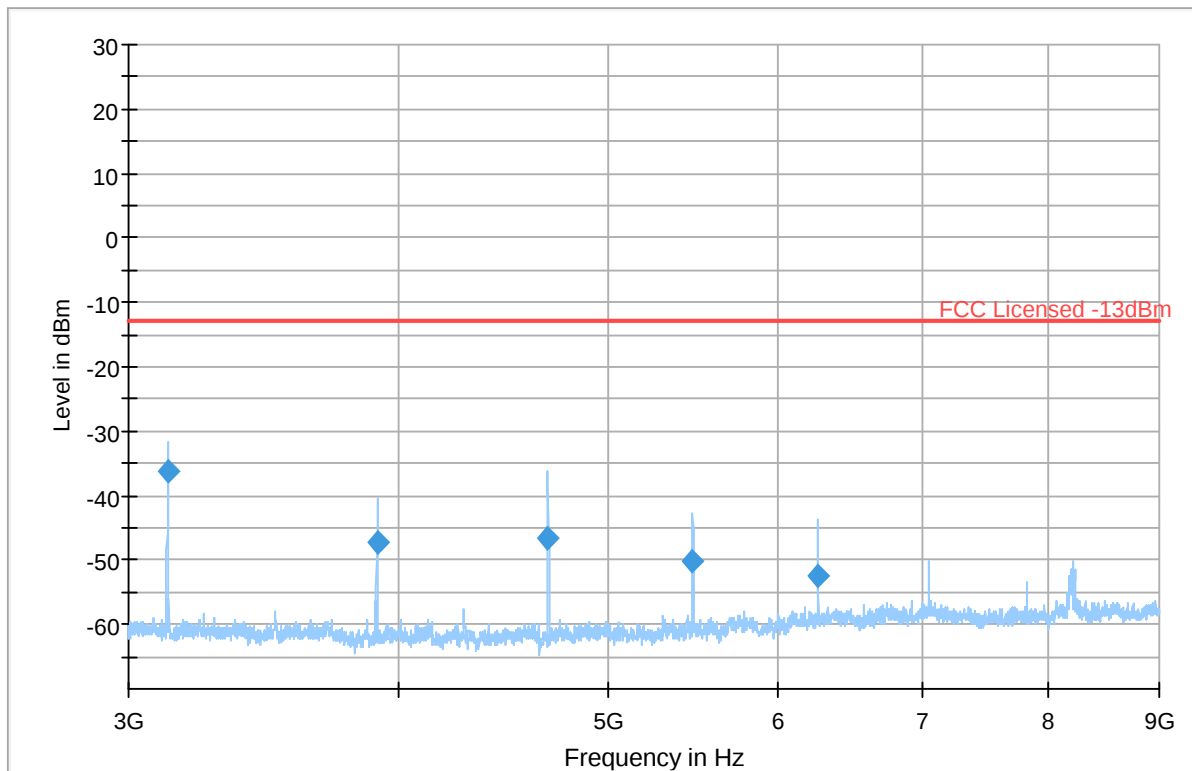


Plot # 15 Radiated Emissions: 3 GHz – 9 GHz

Channel: 23230

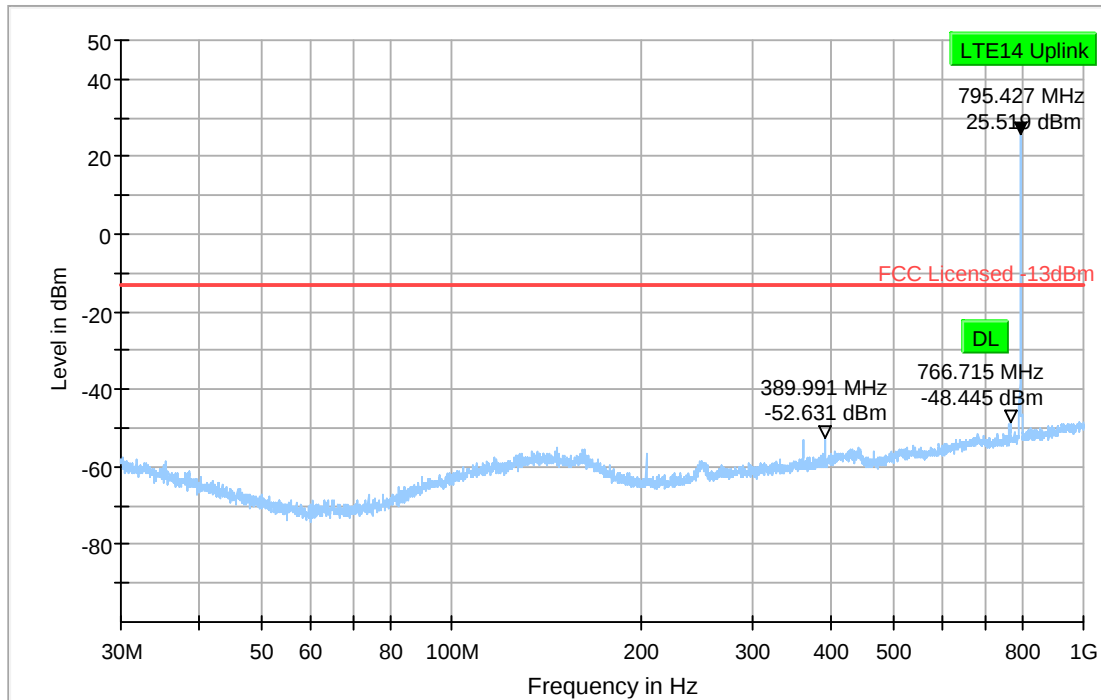
Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3128.875	-36.355	-13.00	23.35	500.0	1000.0	134.0	H	131.0	-	5.5	-45.9	-62.5	66.6
3910.375	-47.325	-13.00	34.33	500.0	1000.0	161.0	H	144.0	-	6.0	-45.8	-62.0	54.5
4693.324	-46.490	-13.00	33.49	500.0	1000.0	170.0	V	2.0	-99.9	6.7	-45.5	-61.1	53.4
5475.125	-50.345	-13.00	37.34	500.0	1000.0	340.0	H	273.0	-99.5	7.2	-46.3	-60.4	49.2
6258.313	-52.488	-13.00	39.49	500.0	1000.0	178.0	H	151.0	-98.2	8.3	-46.7	-59.7	45.7



LTE 14**Plot # 16 Radiated Emissions: 30 MHz – 1 GHz**

Channel: 23355



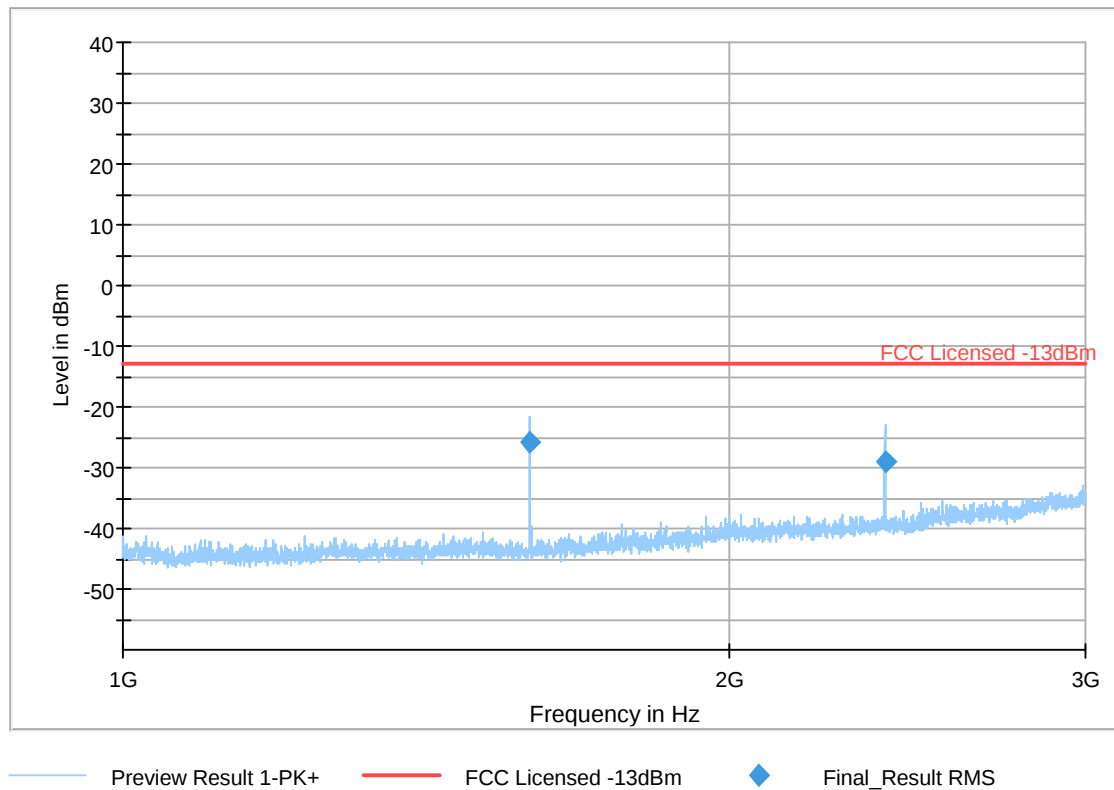
— Preview Result 1-PK+ * Critical_Freqs PK+
— FCC Licensed -13dBm ◆ Final_Result RMS

Plot # 17 Radiated Emissions: 1 GHz - 3 GHz

Channel: 23355

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1590.905	-25.705	-13.00	12.71	500.0	1000.0	138.0	V	179.0	-65.2	4.5	0.0	-69.8	39.5
2386.725	-29.027	-13.00	16.03	500.0	1000.0	159.0	V	84.0	-62.0	5.2	0.0	-67.3	33.0

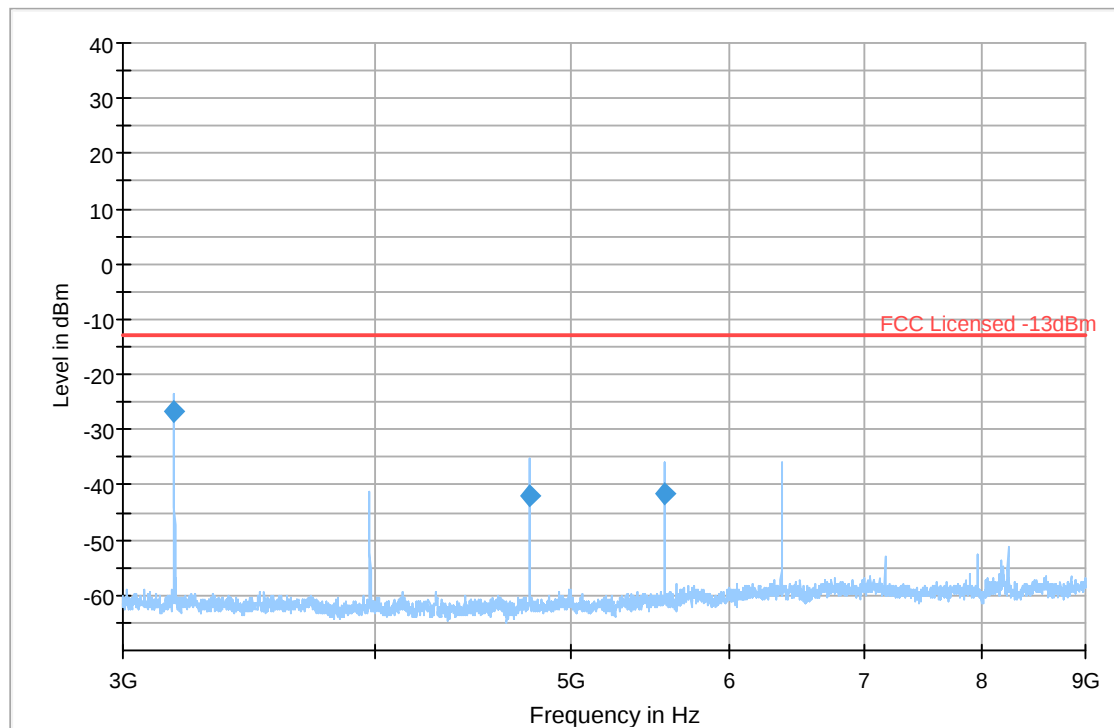


Plot # 18 Radiated Emissions: 3 GHz – 9 GHz

Channel: 23355

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3181.938	-26.716	-13.00	13.72	500.0	1000.0	160.0	V	99.0	-103.1	5.5	-46.0	-62.6	76.4
4773.045	-42.048	-13.00	29.05	500.0	1000.0	175.0	V	83.0	-99.6	7.0	-45.6	-61.1	57.6
5568.552	-41.713	-13.00	28.71	500.0	1000.0	125.0	V	244.0	-99.0	7.7	-46.5	-60.3	57.3



Preview Result 1-PK+

FCC Licensed -13dBm

Final_Result RMS

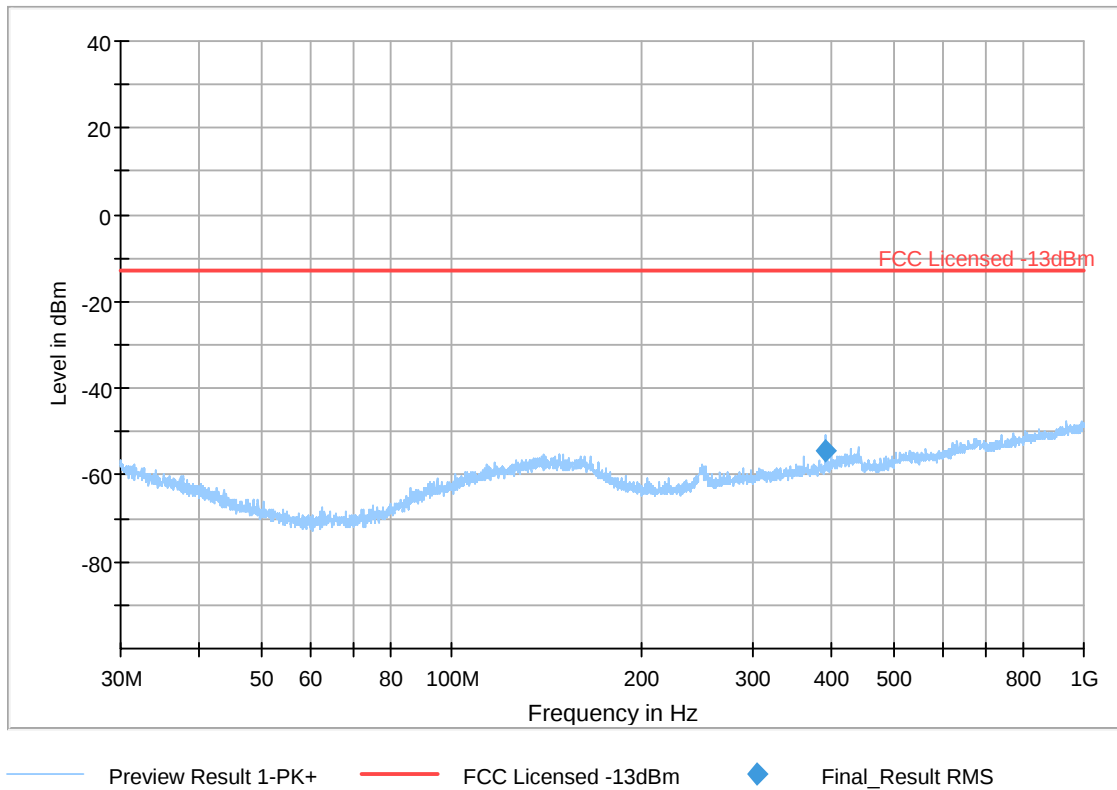
LTE 66

Plot # 19 Radiated Emissions: 30 MHz – 1 GHz

Channel: 132322

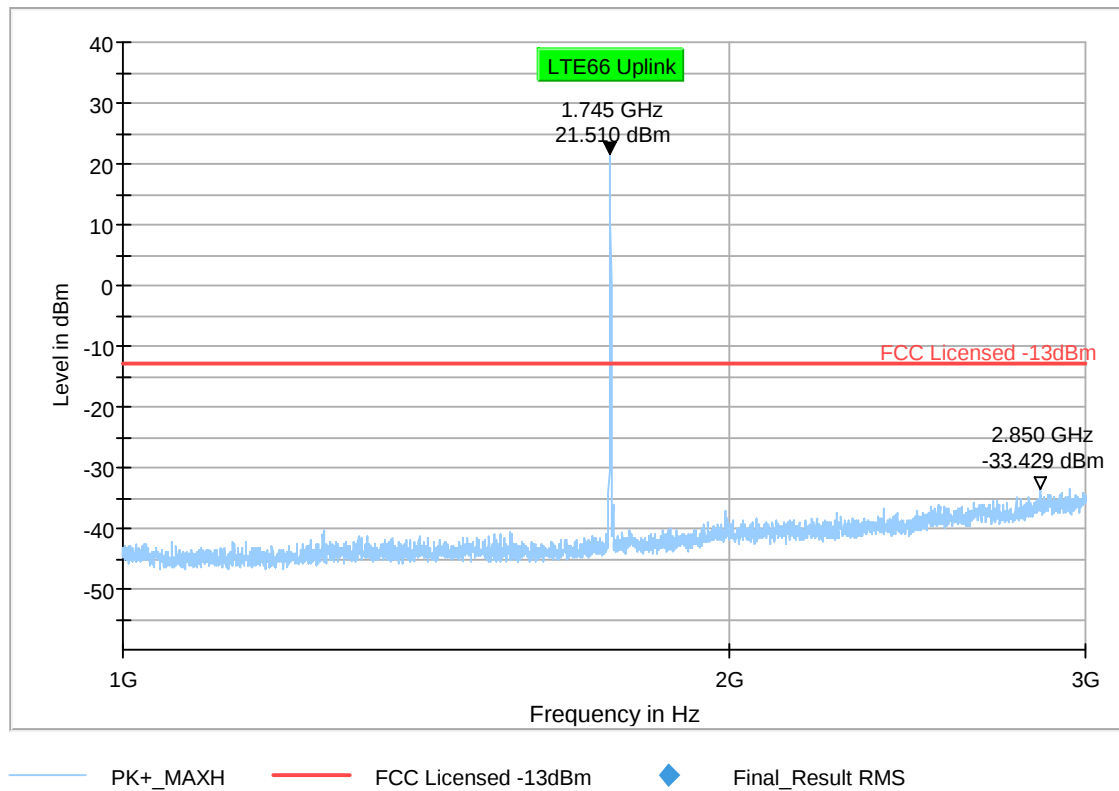
Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
389.957	-54.347	-13.00	41.35	500.0	100.0	152.0	H	179.0	-73.2	1.9	0.0	-75.1	18.9



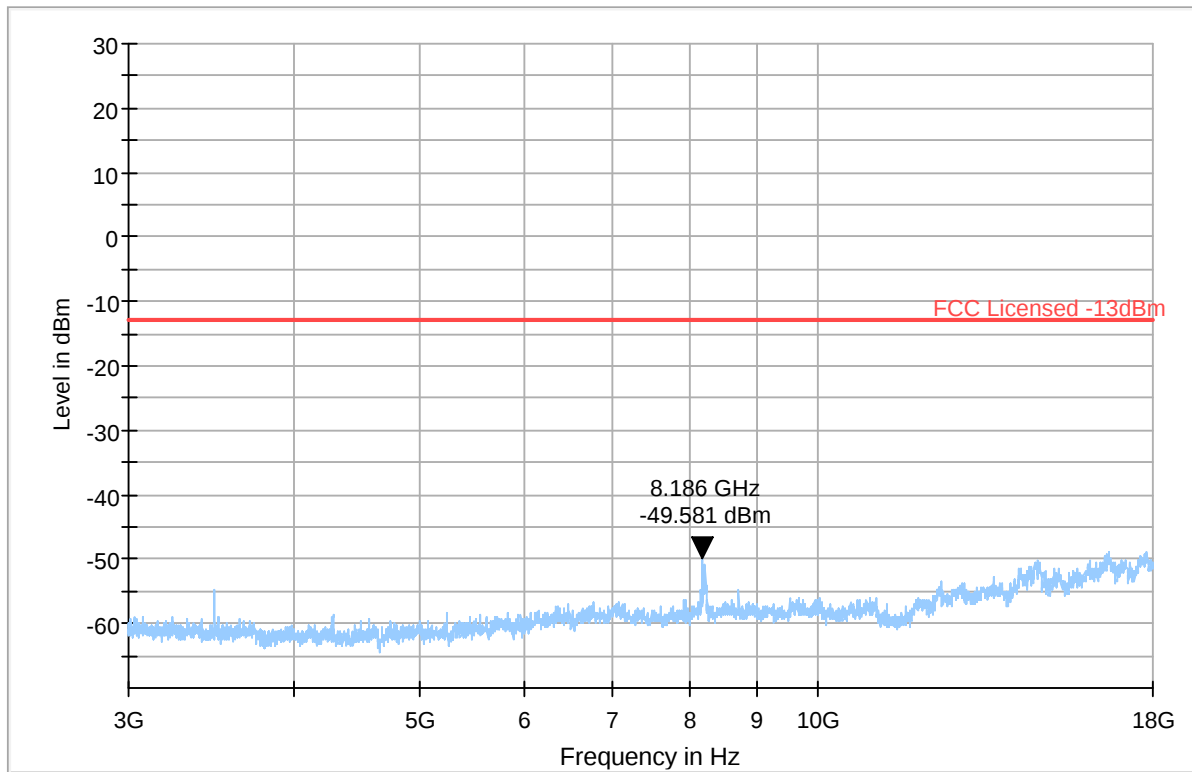
Plot # 20 Radiated Emissions: 1 GHz - 3 GHz

Channel: 132322



Plot # 21 Radiated Emissions: 3 GHz – 18 GHz

Channel: 132322



— PK+_MAXH

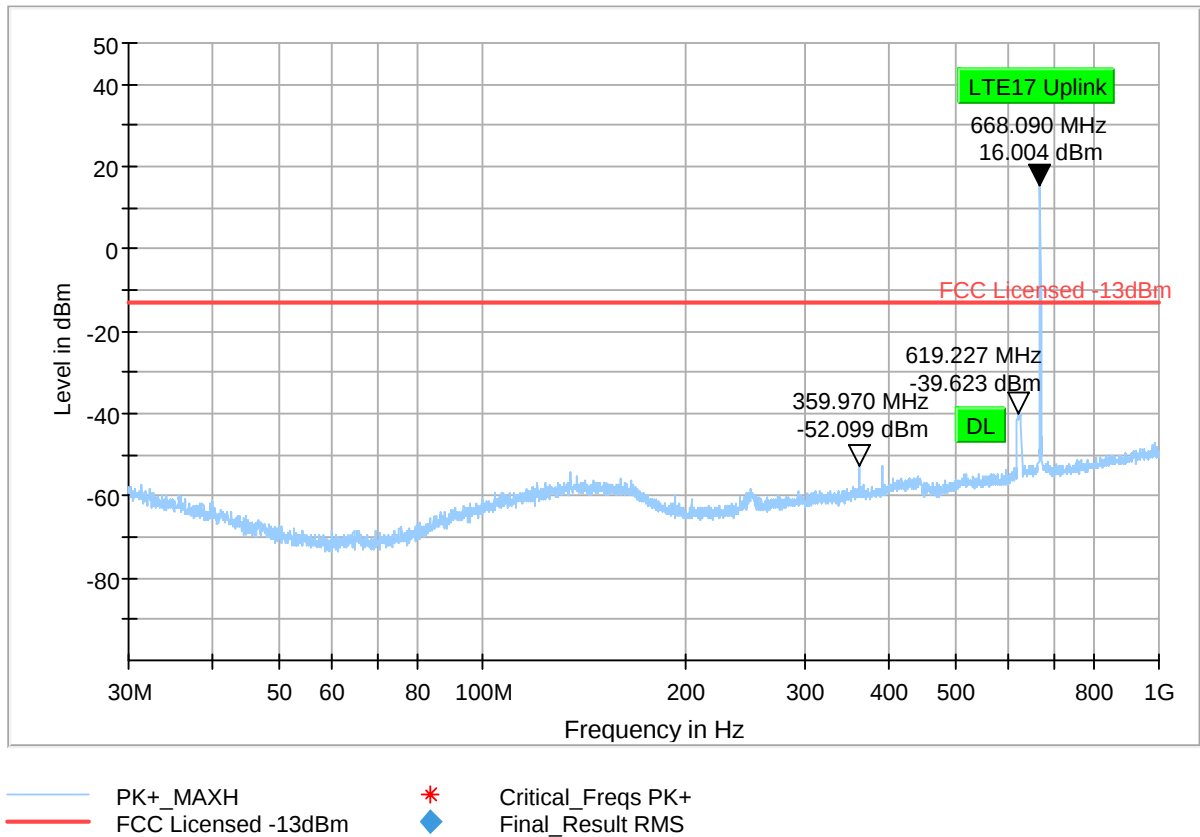
— FCC Licensed -13dBm

◆ Final_Result RMS

LTE 71

Plot # 22 Radiated Emissions: 30 MHz – 1GHz

Channel: 133172

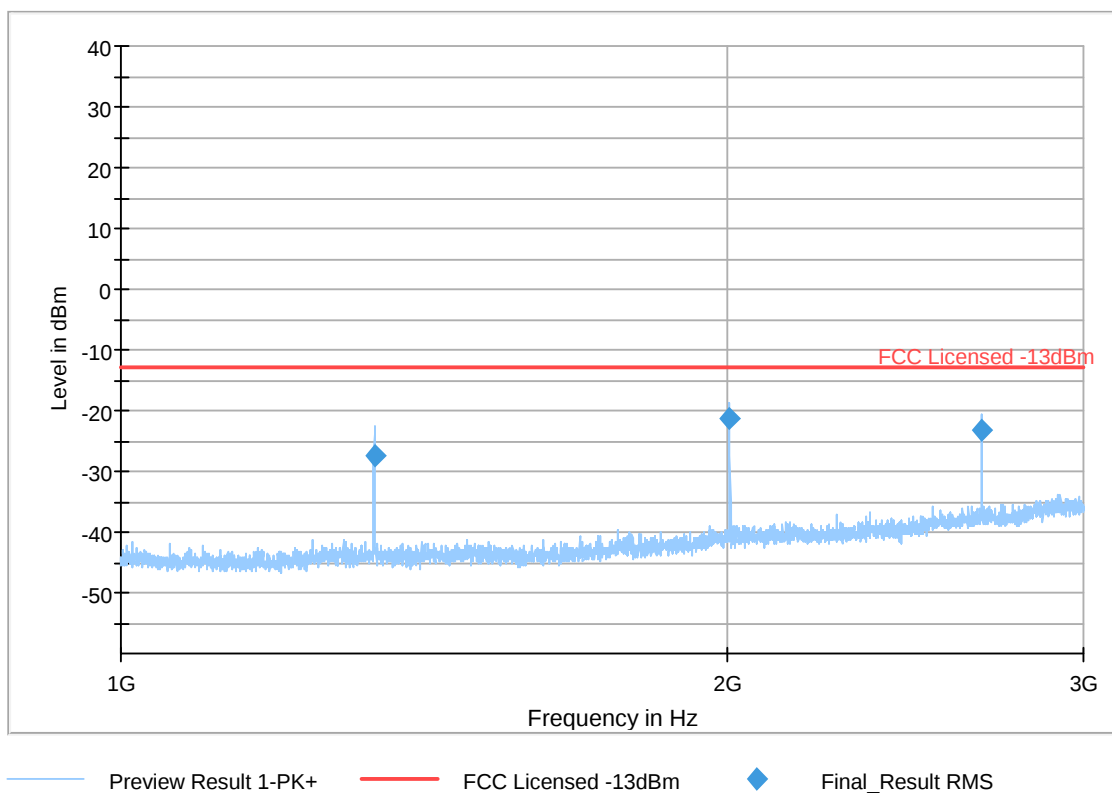


Plot # 23 Radiated Emissions: 1 GHz - 3 GHz

Channel: 133172

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preamp (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
1335.957	-27.277	-13.00	14.28	500.0	1000.0	134.0	H	130.0	-65.7	4.4	0.0	-70.0	38.4
2004.052	-21.335	-13.00	8.34	500.0	1000.0	185.0	H	72.0	-62.8	5.2	0.0	-67.9	41.4
2672.250	-23.146	-13.00	10.15	500.0	1000.0	107.0	V	162.0	-60.6	5.8	0.0	-66.4	37.4

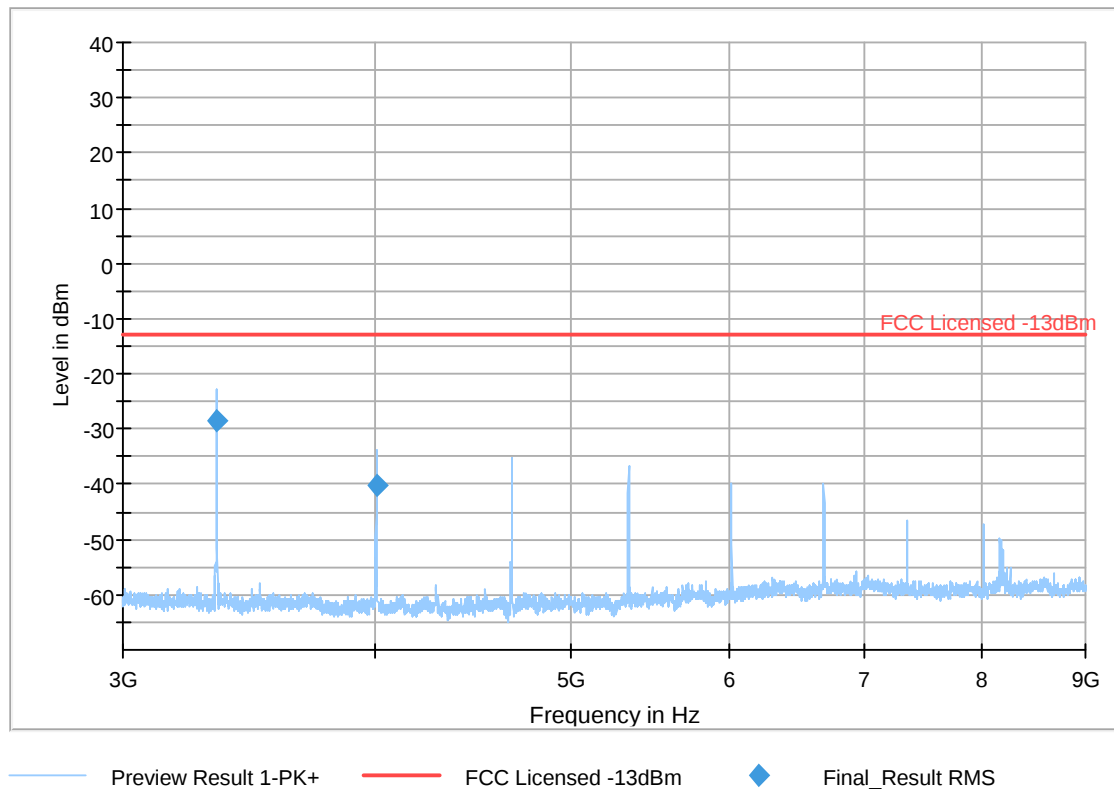


Plot # 24 Radiated Emissions: 3 GHz – 8 GHz

Channel: 133172

Final_Result

Frequency (MHz)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)	Sig Path (dB)	Preampl (dB)	Trd Corr. (dB)	Raw Rec (dBμV)
3340.188	-28.510	-13.00	15.51	500.0	1000.0	142.0	V	264.0	-102.6	5.8	-45.9	-62.6	74.1
4007.563	-40.299	-13.00	27.30	500.0	1000.0	150.0	V	264.0	-101.3	6.4	-45.7	-62.0	61.0



9 Test setup photos

Setup photos are included in supporting file name: "EMC_QWAKE_003_25001_FCC_ISED_Setup_Photos.pdf"

10 Test Equipment And Ancillaries Used For Testing

Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
Biconilog Antenna	A.H. Systems	BiLA2G SAS-521-2	569	2 YEARS	10/30/2023
Horn Antenna	ETS Lindgren	3115	35111	2 YEARS	10/30/2023
Horn Antenna	ETS Lindgren	3117	167061	2 YEARS	10/30/2023
EMI Receiver	ROHDE & SCHWARZ	ESW44	100715	2 YEARS	4/17/2024
Digital Thermometer	CONTROL COMPANY	4410,90080-03	230712972	3 YEARS	10/18/2023
Digital Thermometer	CONTROL COMPANY	4410,90080-03	230713041	3 YEARS	10/18/2023
Test Software	ROHDE & SCHWARZ	EMC32 V11.40.00	-	-	-

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.

11 Revision History

Date	Report Name	Changes to report	Report prepared by
7/21/2025	EMC_QWAKE_003_25001_KDB996369	Initial Version	Issa Ghanma

<<< The End >>>
