



FCC Test Report

For: Livongo Health Inc.

Model number: BG300

Product Description: Read Blood Glucose (BG) and transmit to cloud based applications for storage and interpretation. Store and report BG readings to user.

FCC ID: 2AA92LV02062

Per:
47 CFR: Part 22, Part 24, Part 27

REPORT #: EMC_KORET_017_18001_FCC_22_24_27_REV_3

DATE: 07/19/2018



A2LA Accredited

**IC recognized #
3462B-2**

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1 Assessment

The following device as further described in section 3 of this report was evaluated for radiated spurious emissions of cellular radio according to criteria specified in the Code of Federal Regulations Title 47 parts 22, 24, 27.

No deficiencies were ascertained.

Responsible for Testing Laboratory:

07/19/2018	Compliance	James Donnellan (Lab Manager)	
Date	Section	Name	Signature

Responsible for the Report:

07/19/2018	Compliance	Issa Ghanma (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
Lab Manager:	James Donnellan
Responsible Project Leader:	Cathy Palacios

2.2 Identification of the Client

Applicant's Name:	Livongo Health Inc.
Street Address:	150 W. Evelyn Ave, Suite 150
City/Zip Code	Mountain View, CA 94041
Country	USA

2.3 Identification of the Manufacturer

Manufacturer's Name:	Same as applicant.
Manufacturers Address:	-----
City/Zip Code	-----
Country	-----

3 Equipment Under Test (EUT)

3.1 EUT Specifications

Marketing name:	Livongo Meter		
Module Name:	Telit 910C1-NA		
Module Number:	LE910C1N501T0A1		
FCC ID:	RI7LE910C1NA		
Max. documented values from the modular grant:	Band	Frequency range (MHz)	Output Power (Watts)
	GSM 850	824.0 – 849.0	2.228435
	GSM 1900	1850.0 – 1910.0	0.986279
	WCDMA II	1850.0 – 1910.0	0.156675
	WCDMA IV	1710.0 – 1755.0	0.285102
	WCDMA V	824.0 – 849.0	0.152757
	LTE 2	1850.0 – 1910.0	0.231
	LTE 4	1710.0 – 1755.0	0.273
	LTE 12	699.0 – 716.0	0.215
Operating Voltage Range	Low 4.75 V / Nominal 5 V / High 5.25 V		
Operating Temperature Range	Low 5 °C – High 45°C		
Other Radios included in the	-----		
Sample Revision	<input type="checkbox"/> Prototype Unit;	<input checked="" type="checkbox"/> Production Unit;	<input type="checkbox"/> Pre-Production
EUT Dimensions (cm)	9.6 (L) X 5.7 (W) X 1.77		
Weight (grams)	~75		
EUT Diameter	<input checked="" type="checkbox"/> < 60 cm	<input type="checkbox"/> Other _____	

3.2 EUT Sample details

EUT #	S/N	HW Version	SW Version	Comments
1	BG3001816200078	C	2.4	Radiated Measurements

3.3 Antenna Specification

Antenna	UMTS/GPRS/LTE radio module with a chip PIFA antenna for communication with dedicated Livongo Inc. secure server.				
Frequency (MHz)	850	1900	1700	900	700
Peak Gain dBi	0.63	2.51	5.00	5.00	5.63

3.4 Accessory Equipment

AE #	Type	Comments
1	AC Adapter	PHIHONG Model: PSA0SA-050QLG
2	Blood glucose strips	-----

3.5 Test Sample Configuration

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

3.6 Mode of Operation details

Mode of Operation	Description of Operating modes	Additional Information
Op. 1	Cellular	Cellular was tested on Low, Mid, High Channels at the maximum power. AC Adapter was connected to the equipment under test while testing.

4 Subject of Investigation

The objective of the evaluation conducted by CETECOM Inc. is to support a request for new equipment authorization under FCC ID: 2AA92LV02062

The pre-certified module to be integrated (Telit 910C1-NA) as described in Section 3, Radiated Spurious Emissions test was performed. Results have been checked to meet limits per Code of Federal Regulations Title 47 parts 22, 24, 27.

The conducted module test data that can be obtained under the FCC Filing ID: RI7LE910C1NA is applicable for the host described in section 3.

4.1 Dates of Testing:

05/16/2018 – 05/17/2018

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)

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%

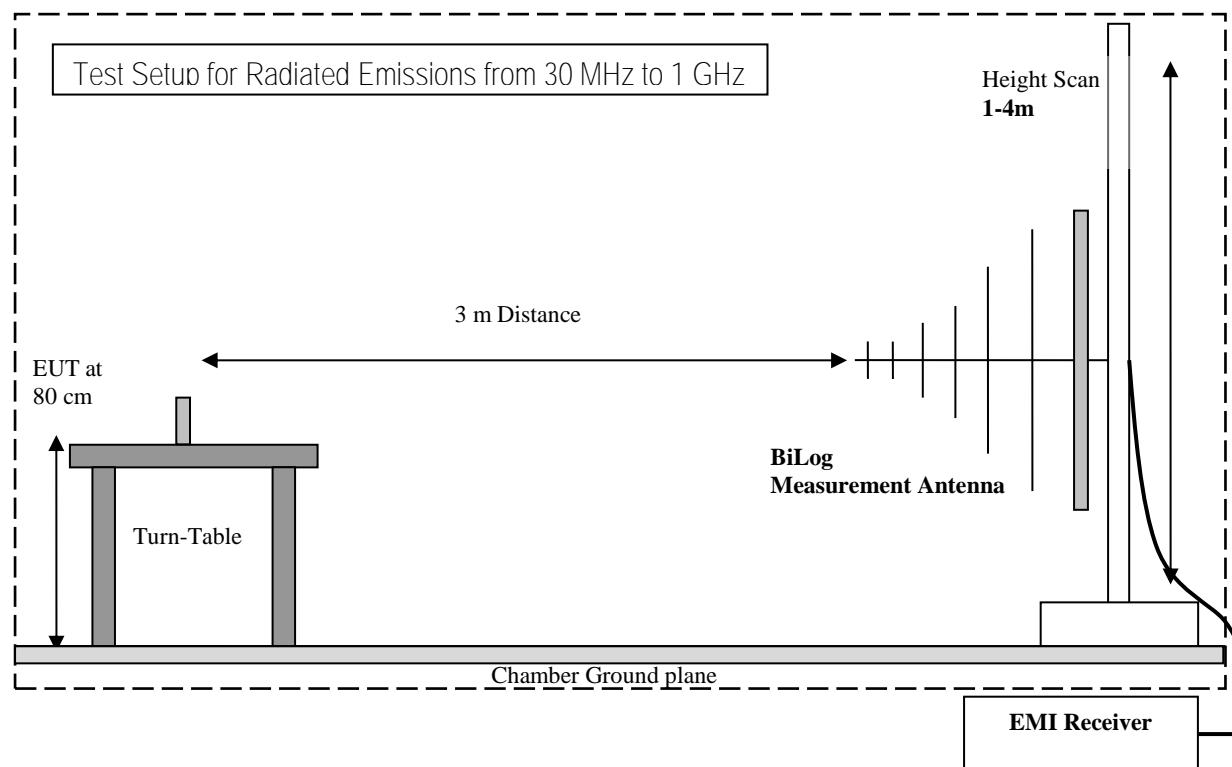
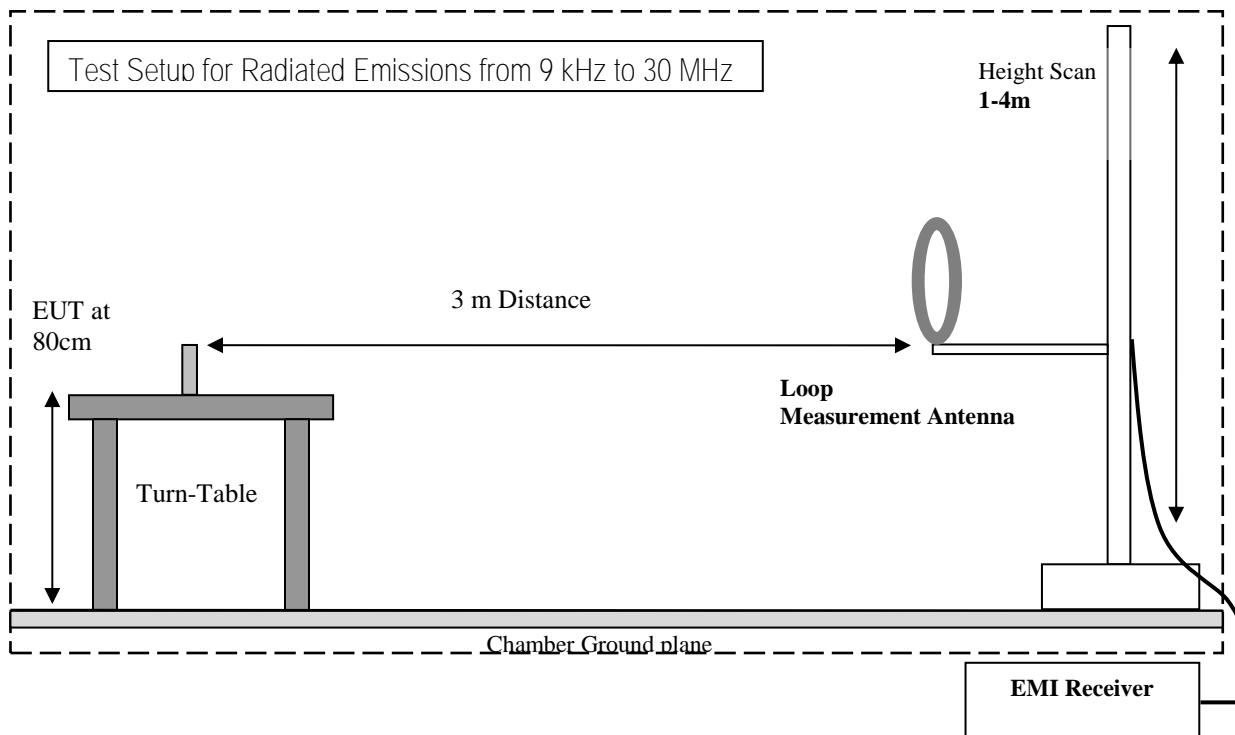
Deviating test conditions are indicated at individual test description where applicable.

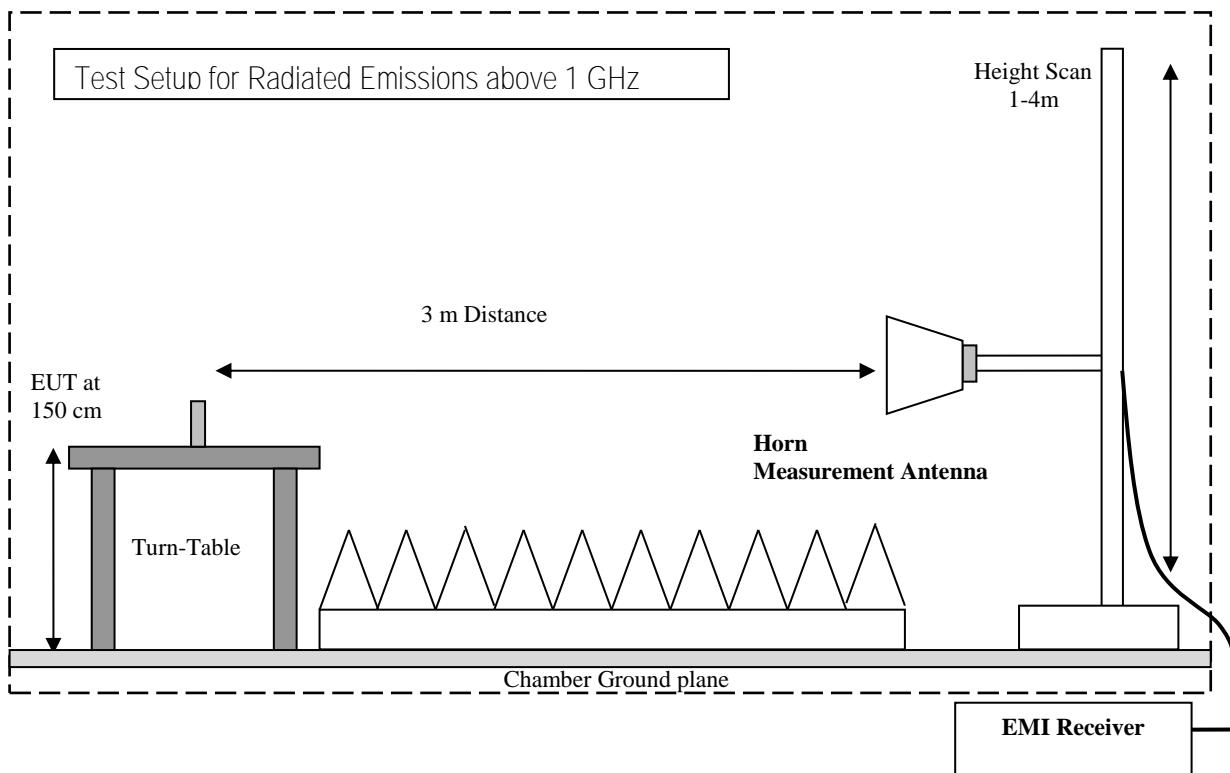
5 Measurement Procedures

Testing is performed according to the guidelines provided in FCC publication (KDB) 971168 D01 v03 – “Measurement Guidance for Certification of Licensed Digital Transmitters” and according to ANSI C63.26 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.





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:

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

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 FCC 22:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §22.913 (a)	RF Output Power	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1055; §22.355	Frequency Stability	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1049; §22.917	Occupied Bandwidth	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1051; §22.917	Band Edge Compliance	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1051; §22.917	Conducted Spurious Emissions	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1053; §22.917(a);	Radiated Spurious Emissions	Nominal	GSM WCDMA	■	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complies

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

Note 2: Leveraged from module certification Telit 910C1-NA FCC ID: RI7LE910C1NA

6.2 FCC 24:

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"/>	■	Complies Note 1 Note 2
§2.1055; §24.235	Frequency Stability	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1049; §24.238	Occupied Bandwidth	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1051; §24.238	Band Edge Compliance	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1051; §24.238	Conducted Spurious Emissions	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1053; §24.238(a);	Radiated Spurious Emissions	Nominal	GSM WCDMA LTE	■	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complies

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

Note 2: Leveraged from module certification Telit 910C1-NA FCC ID: RI7LE910C1NA

6.3 FCC 27:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §27.50 (d)	RF Output Power	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1055; §27.54	Frequency Stability	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1049; §27.53	Occupied Bandwidth	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1051; §27.53	Band Edge Compliance	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1051; §27.53	Conducted Spurious Emissions	Nominal	-	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	■	Complies Note 1 Note 2
§2.1053; §27.53(g); §27.53(h);	Radiated Spurious Emissions	Nominal	WCDMA LTE	■	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Complies

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

Note 2: Leveraged from module certification Telit 910C1-NA FCC ID: RI7LE910C1NA

7 Test Result Data

7.1 Radiated Spurious Emissions

7.1.1 Measurement according to FCC: CFR 47 Part 2.1053; CFR Part 22.917; CFR Part 24.238, Part 27.53 utilizing KDB 971168 D01 Power Meas License Digital Systems v03, and according to ANSI C63.26 2017

Spectrum Analyzer Settings for FCC 22

Frequency Range	30 MHz – 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 and 27

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:

- FCC Part 22.917(a) and Part 24.238(a), Part 27.53 (g), and Part 27.53 (h)

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 = (-13dBm)

7.1.3 Test conditions and setup:

Ambient Temperature (C)	EUT Set-Up #	EUT operating mode	Power Input
22	1	Op. 1	5.0 V

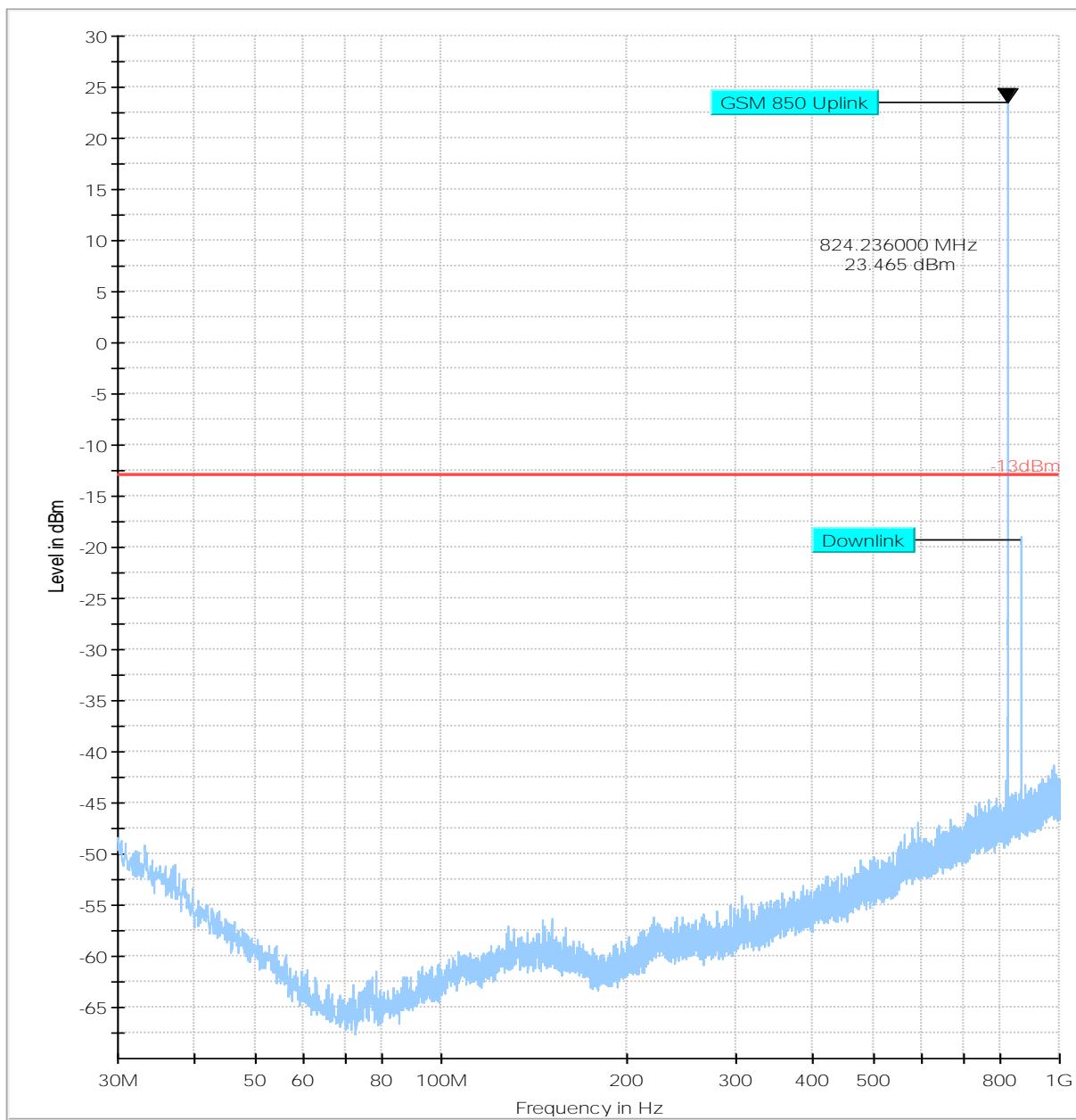
7.1.4 Measurement result:

Plot #	Cellular Channel	EUT operating mode	Scan Frequency	Limit (dBm)	Highest emission in dB	Frequency of highest emission in MHz	Result
1 - 3	Low	GSM 850	30 MHz – 9 GHz	-13	NF	-	Pass
4 - 7	Mid	GSM 850	9 kHz – 9 GHz	-13	-31.45	0.011	Pass
8 - 10	High	GSM 850	30 MHz – 9 GHz	-13	NF	-	Pass
11 - 13	Low	GSM 1900	30 MHz – 18 GHz	-13	-40.25	12951	Pass
14 - 18	Mid	GSM 1900	9 kHz – 26 GHz	-13	-33.5	0.014	Pass
19 - 21	High	GSM 1900	30 MHz – 18 GHz	-13	-39.81	13159	Pass
22 - 24	Low	WCDMA II	30 MHz – 18 GHz	-13	-63.31	72.0	Pass
25 - 29	Mid	WCDMA II	9 kHz – 26 GHz	-13	-63.44	72.0	Pass
30 - 32	High	WCDMA II	30 MHz – 18 GHz	-13	-65.43	72.0	Pass
33 - 35	Low	WCDMA V	30 MHz – 9 GHz	-13	-28.16	1654	Pass
36 - 39	Mid	WCDMA V	9 kHz – 9 GHz	-13	-31.09	1671	Pass
40 - 42	High	WCDMA V	30 MHz – 9 GHz	-13	-31.02	1690	Pass
43 - 45	Low	LTE 2	30 MHz – 18 GHz	-13	-62.94	72.0	Pass
46 - 50	Mid	LTE 2	9 kHz – 26 GHz	-13	-31.91	0.011	Pass
51 - 53	High	LTE 2	30 MHz – 18 GHz	-13	-64.69	72.0	Pass
54 - 56	Low	LTE 4	30 MHz – 18 GHz	-13	-66.59	72.0	Pass
57 - 60	Mid	LTE 4	9 kHz – 18 GHz	-13	-47.46	0.028	Pass
61 - 63	High	LTE 4	30 MHz – 18 GHz	-13	-65.94	72.0	Pass
64 - 66	Low	WCMDA IV	30 MHz – 18 GHz	-13	-64.98	72.0	Pass
67 - 70	Mid	WCMDA IV	9 kHz – 18 GHz	-13	-45.79	0.028	Pass
71 - 73	High	WCMDA IV	30 MHz – 18 GHz	-13	-53.08	3503	Pass
74 - 76	Low	LTE 12	30 MHz – 9 GHz	-13	-26.52	1408	Pass
77 - 80	Mid	LTE 12	9 kHz – 9 GHz	-13	-13.76	1422	Pass
81 - 83	High	LTE 12	30 MHz – 9 GHz	-13	-25.71	235	Pass

NF*: Noise Floor

7.1.5 Measurement Plots:

GSM 850



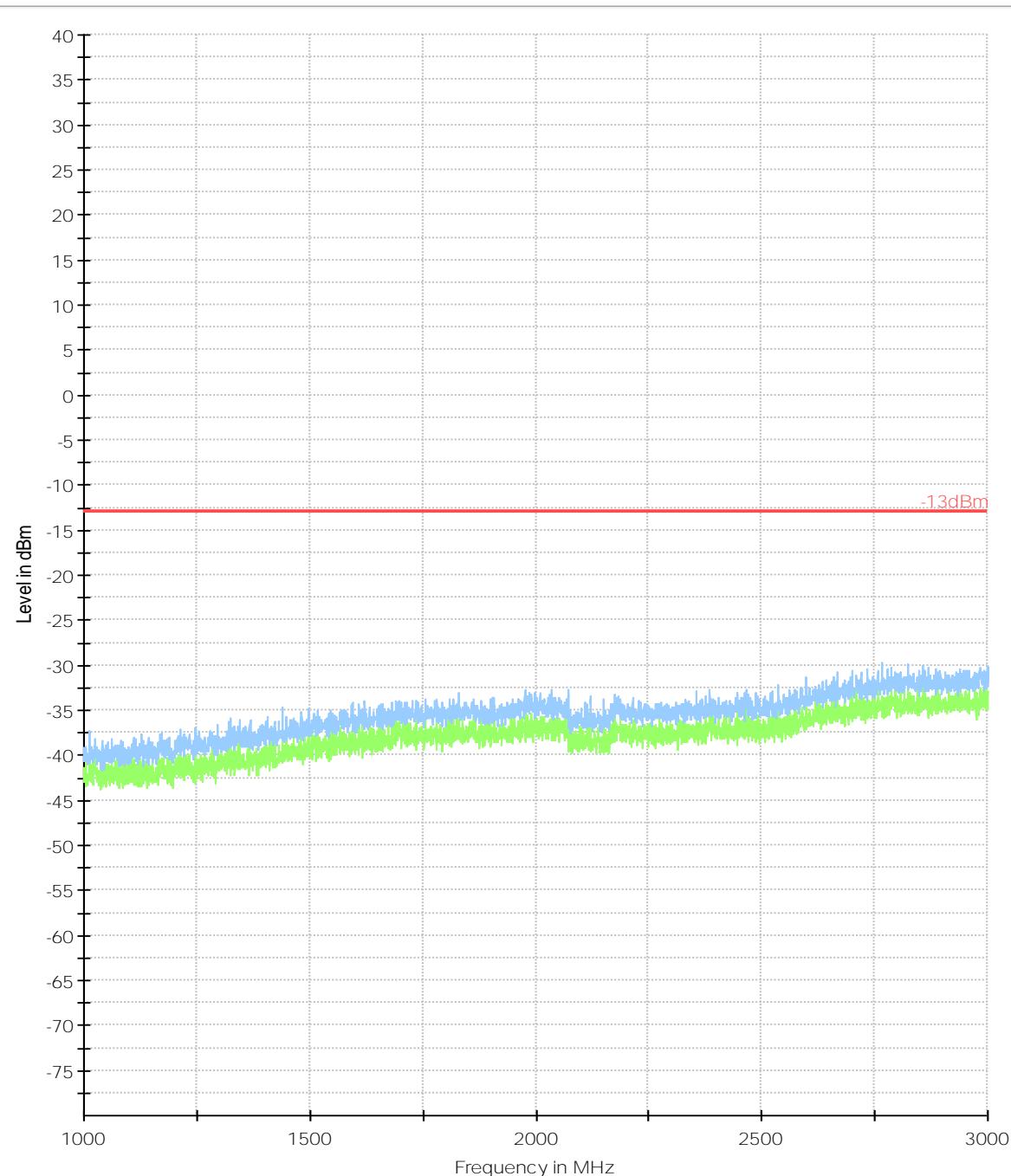
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

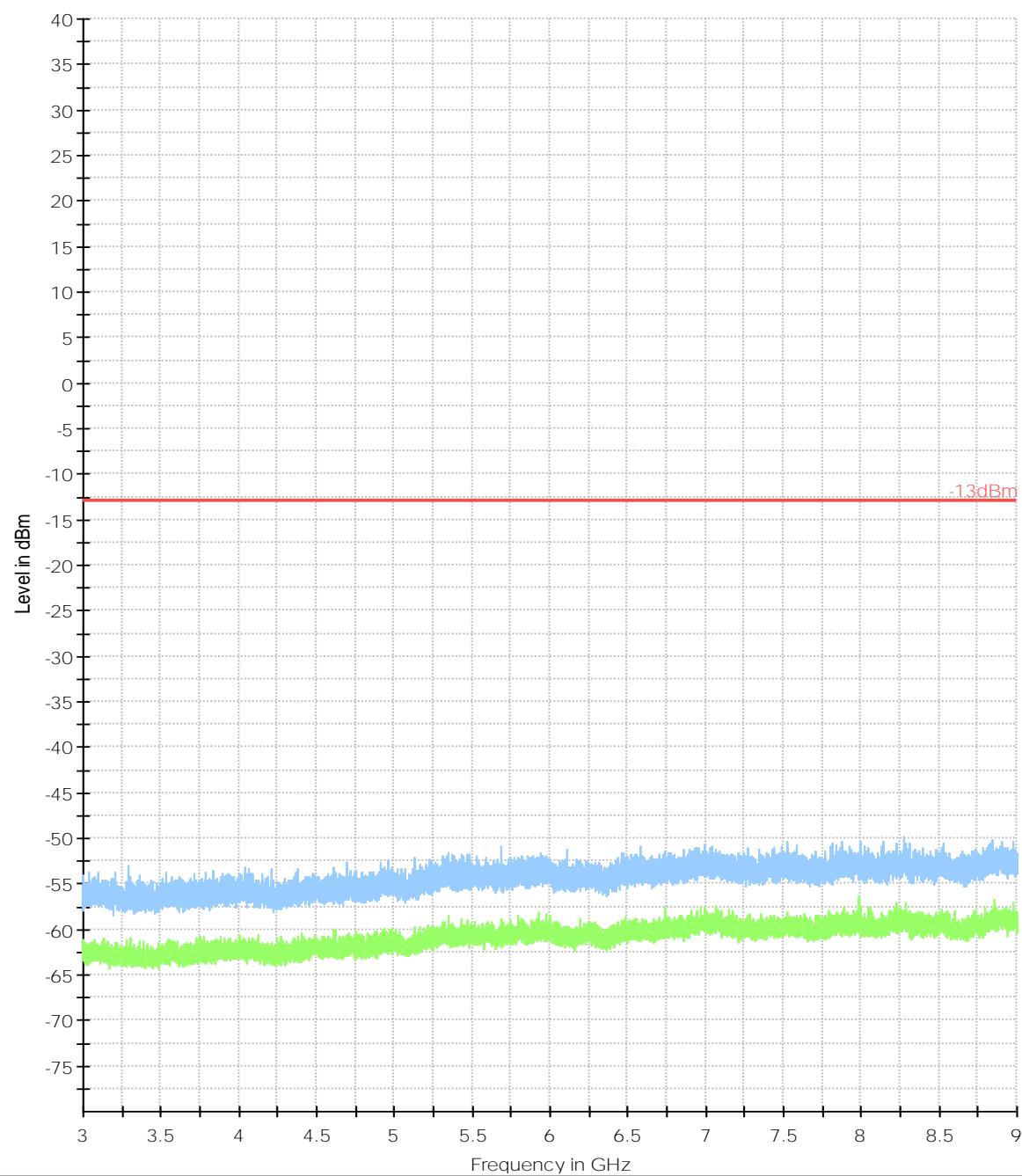
Plot # 2 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low



Plot # 3 Radiated Emissions: 3 GHz - 9 GHz

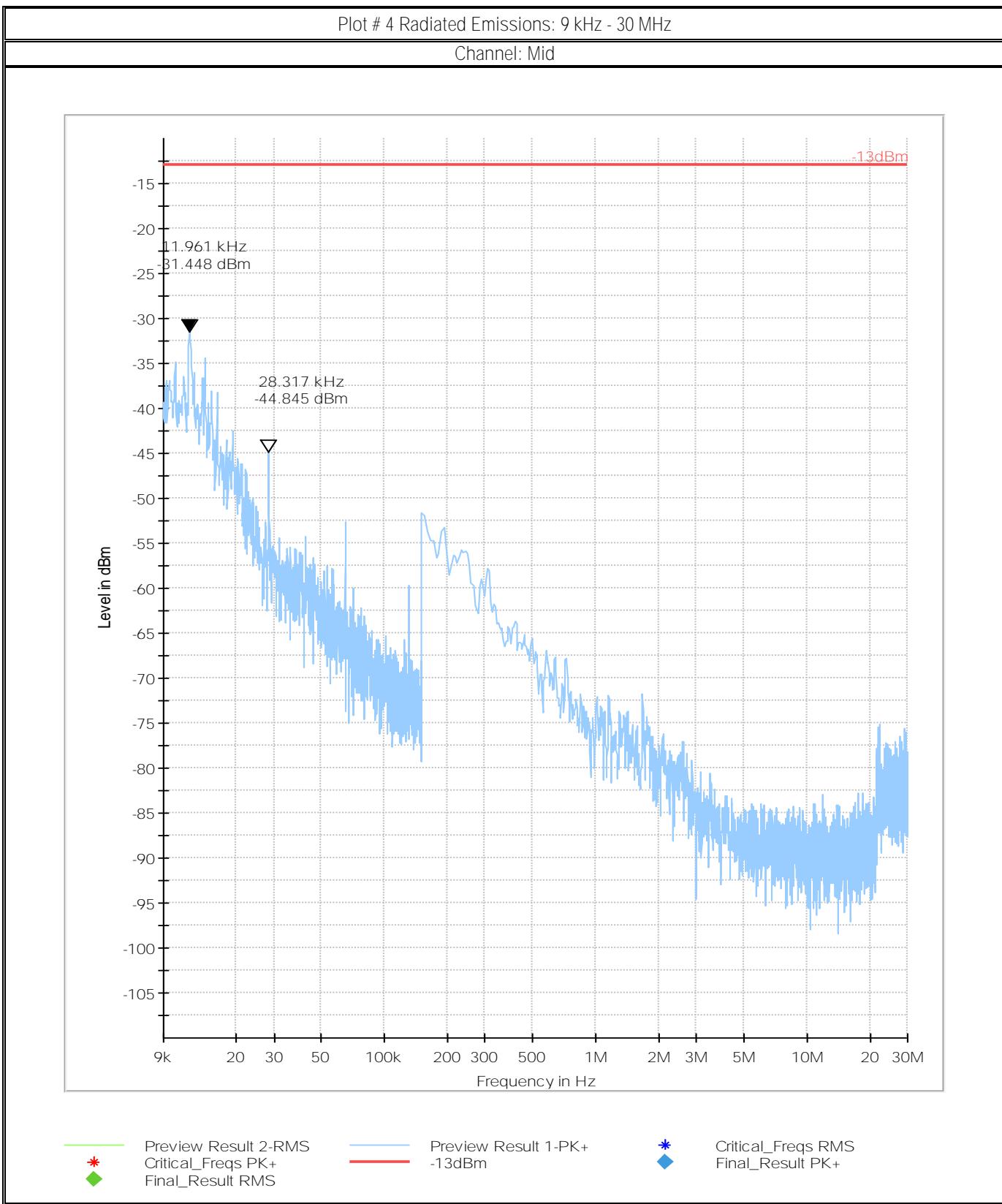
Channel: Low



* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

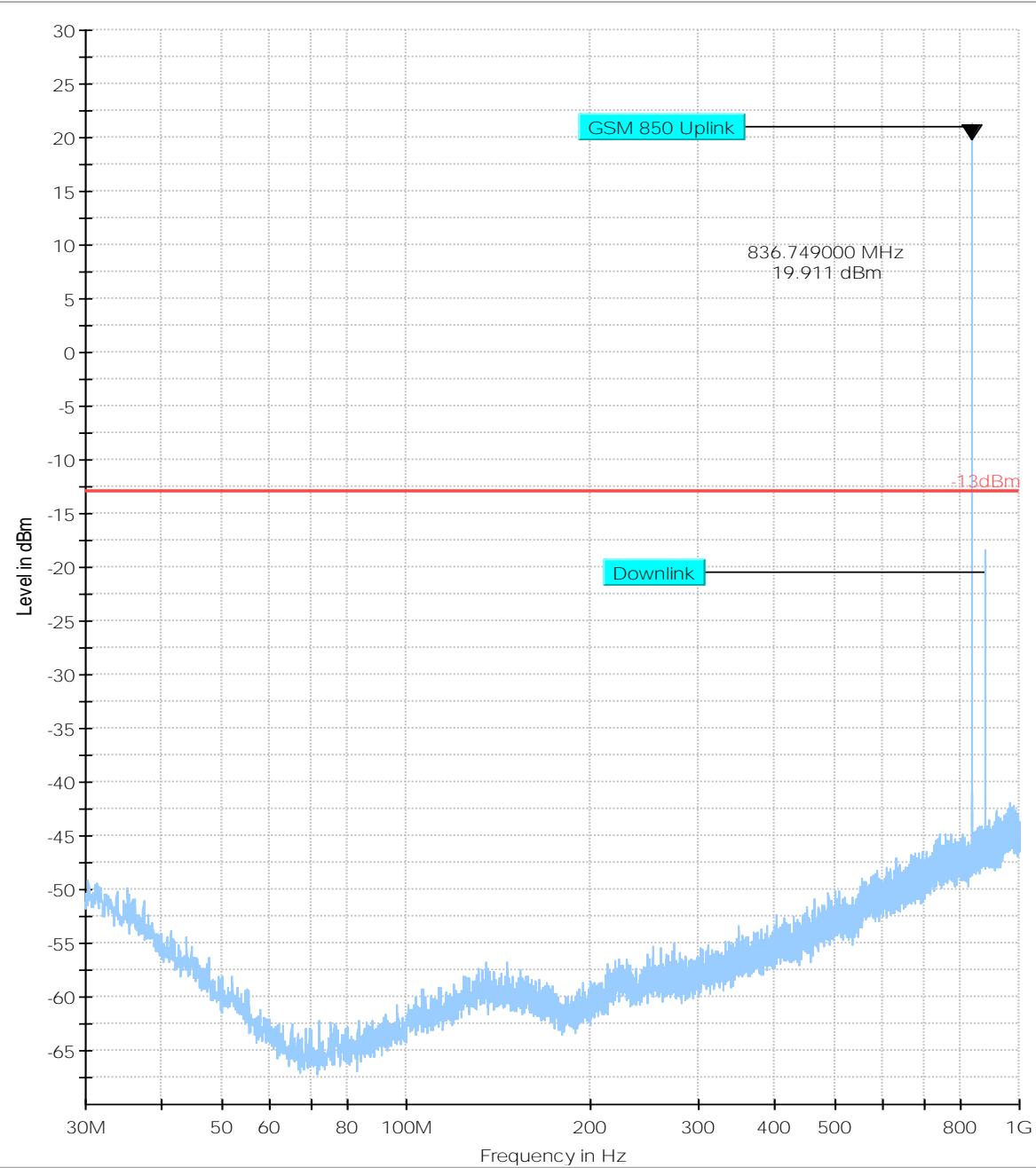
— Preview Result 1-PK+
— -13dBm

* Critical_Freqs RMS
Final_Result PK+



Plot # 5 Radiated Emissions: 30 MHz - 1GHz

Channel: Mid



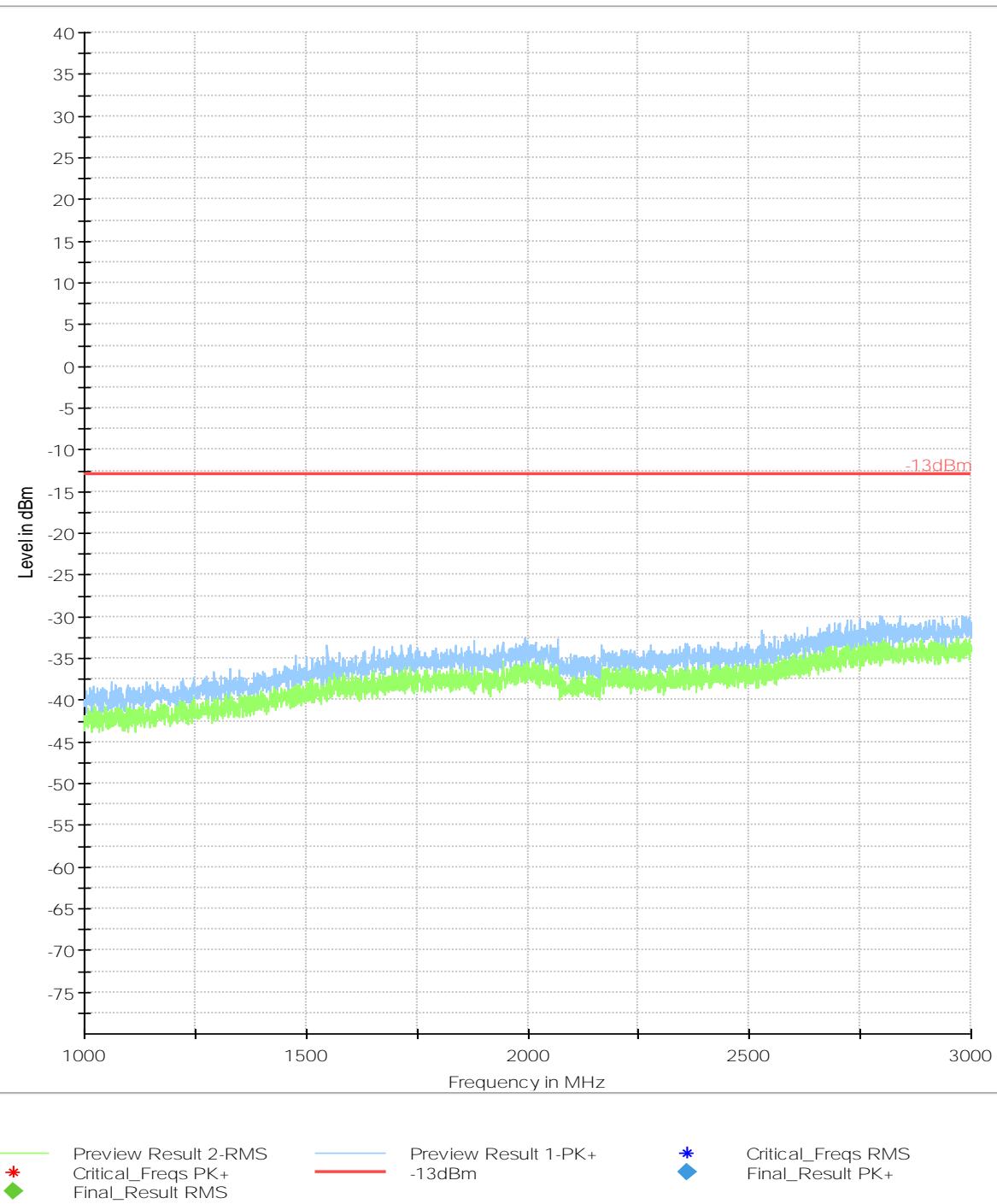
* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
◆ Final_Result PK+

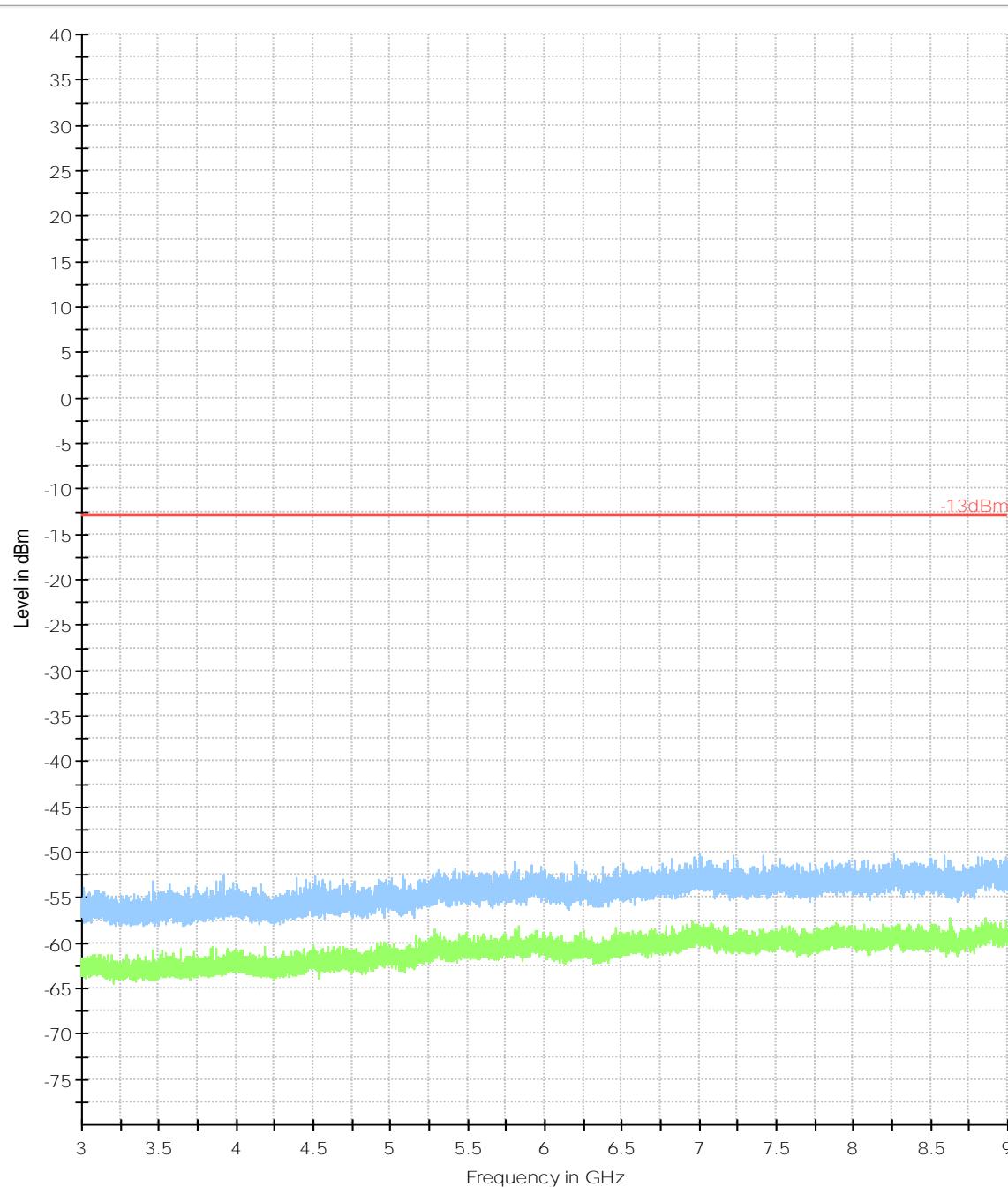
Plot # 6 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid



Plot # 7 Radiated Emissions: 3 GHz - 9 GHz

Channel: Mid



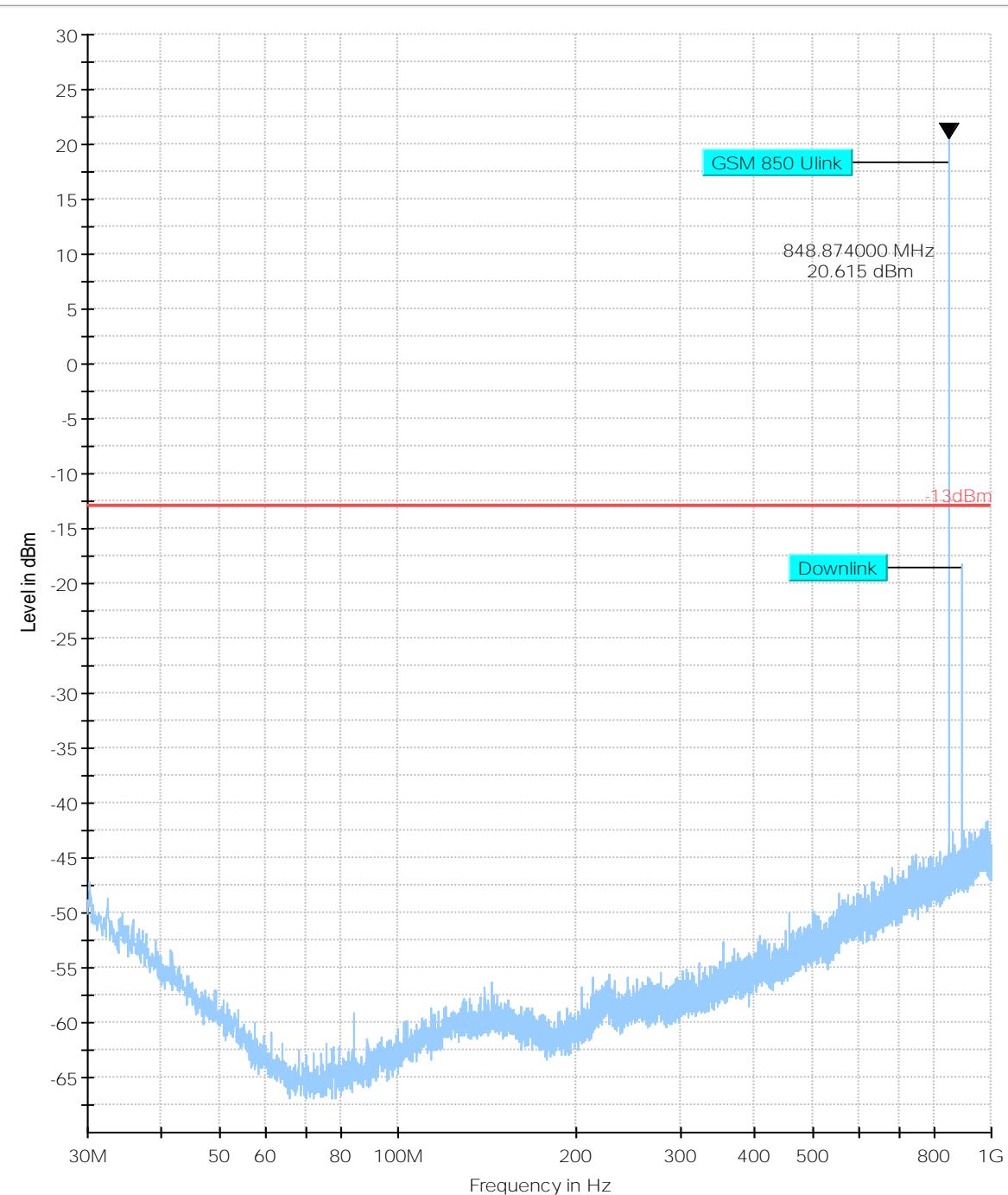
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 8 Radiated Emissions: 30 MHz - 1 GHz

Channel: High



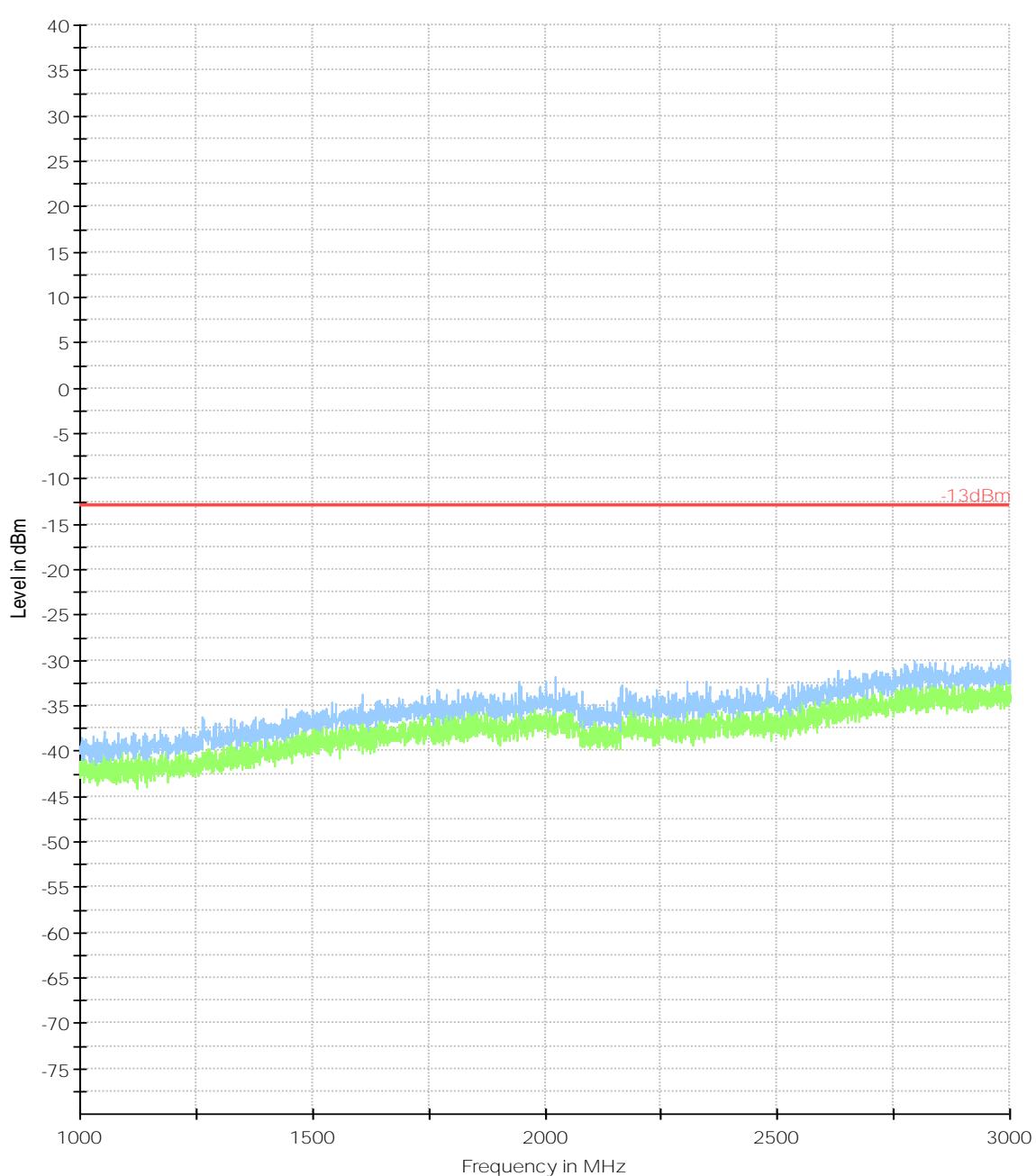
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 9 Radiated Emissions: 1 GHz - 3 GHz

Channel: High



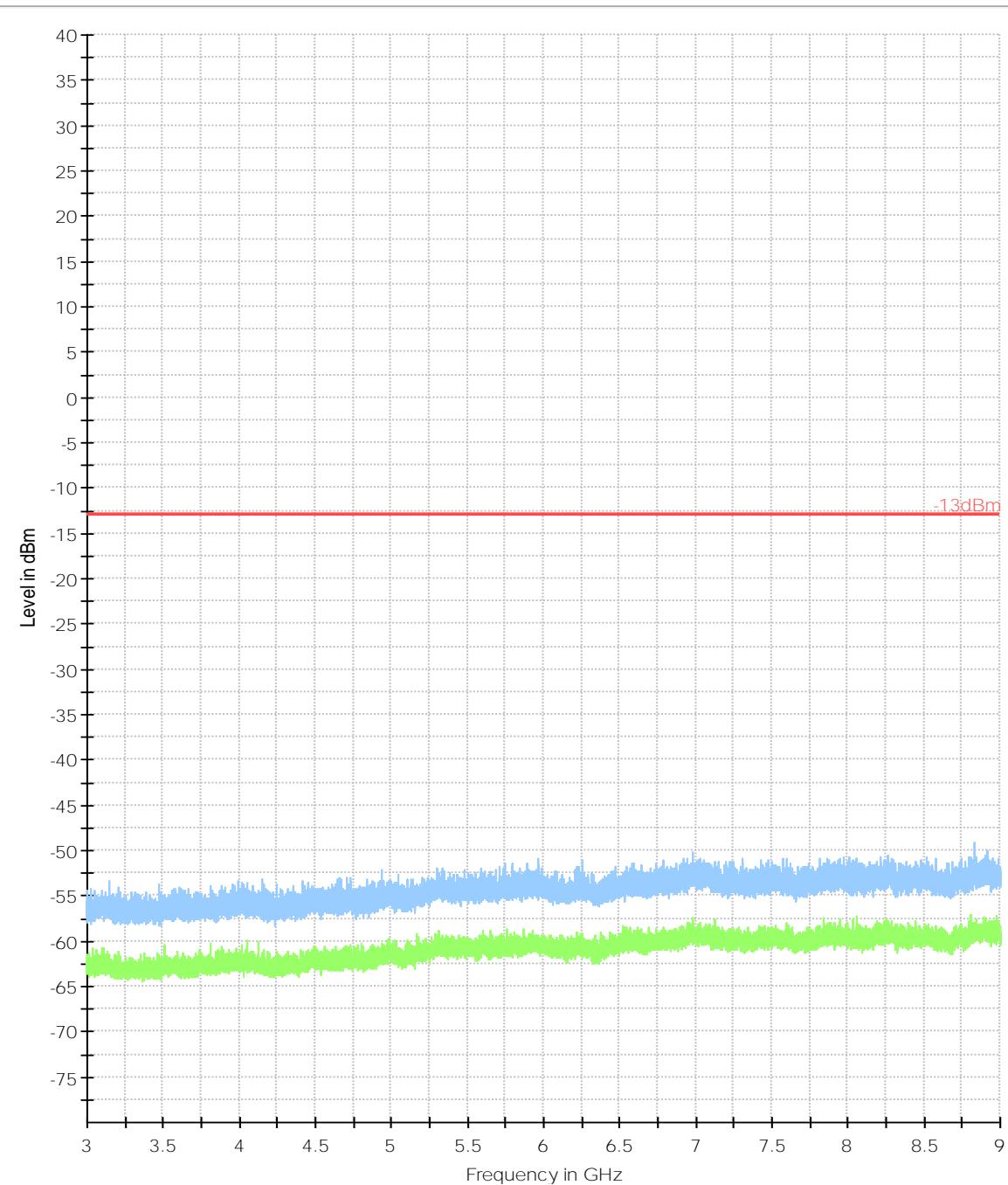
* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

— Preview Result 1-PK+
— -13dBm

* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 10 Radiated Emissions: 3 GHz - 9 GHz

Channel: High



* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

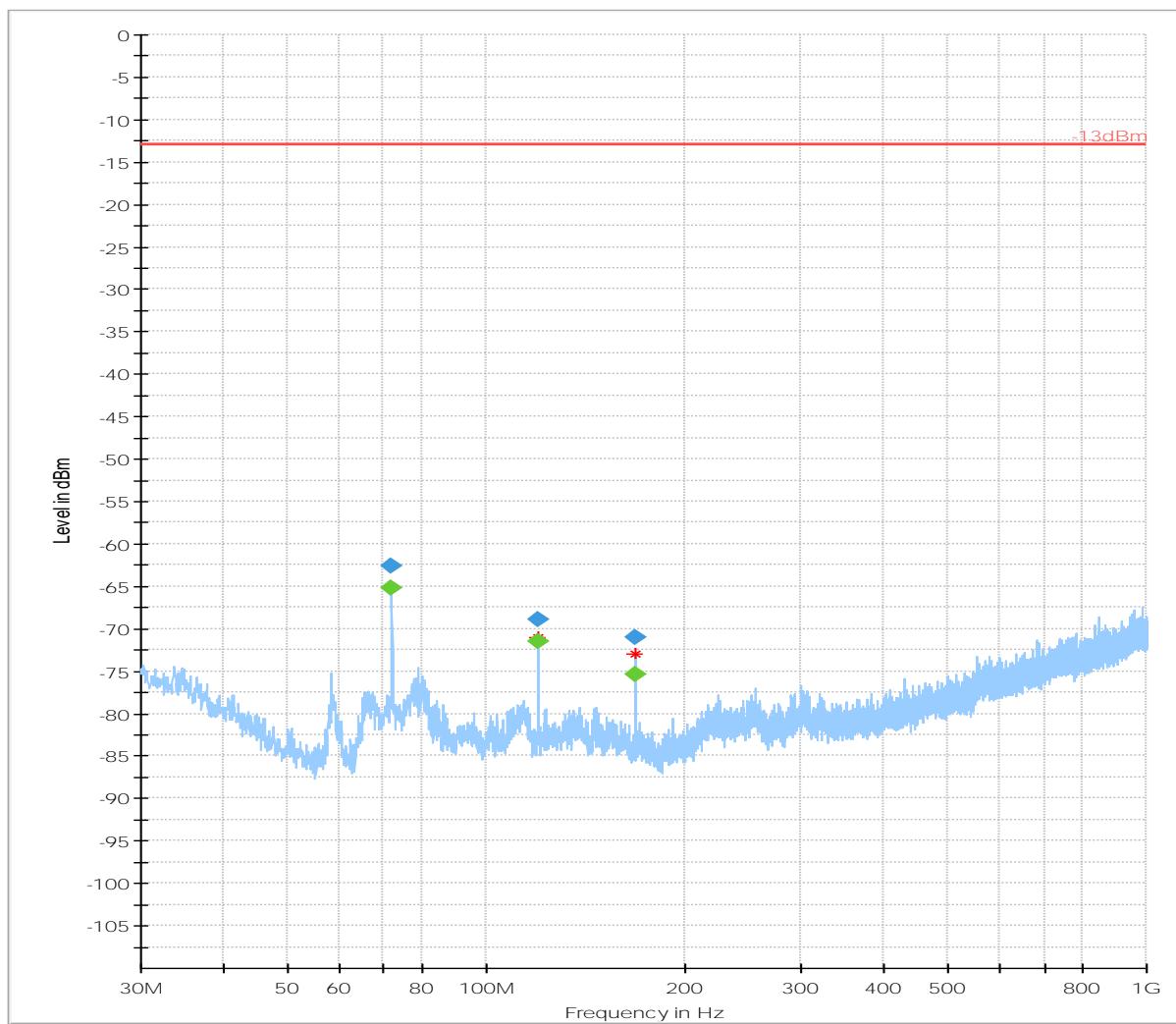
GSM 1900

Plot # 11 Radiated Emissions: 30 MHz - 1 GHz

Channel: Low

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
71.983300	---	-65.26	-13.00	52.26	200.0	100.000	244.0	V	241.0	-120.4
71.983300	-62.66	---	-13.00	49.66	200.0	100.000	244.0	V	241.0	-120.4
120.000400	-68.98	---	-13.00	55.98	200.0	100.000	100.0	V	58.0	-115.1
120.000400	---	-71.56	-13.00	58.56	200.0	100.000	100.0	V	58.0	-115.1
167.992000	-71.07	---	-13.00	58.07	200.0	100.000	154.0	V	242.0	-115.1
167.992000	---	-75.42	-13.00	62.42	200.0	100.000	154.0	V	242.0	-115.1



Preview Result 2-RMS
 Critical_Freqs PK+
 Final_Result RMS



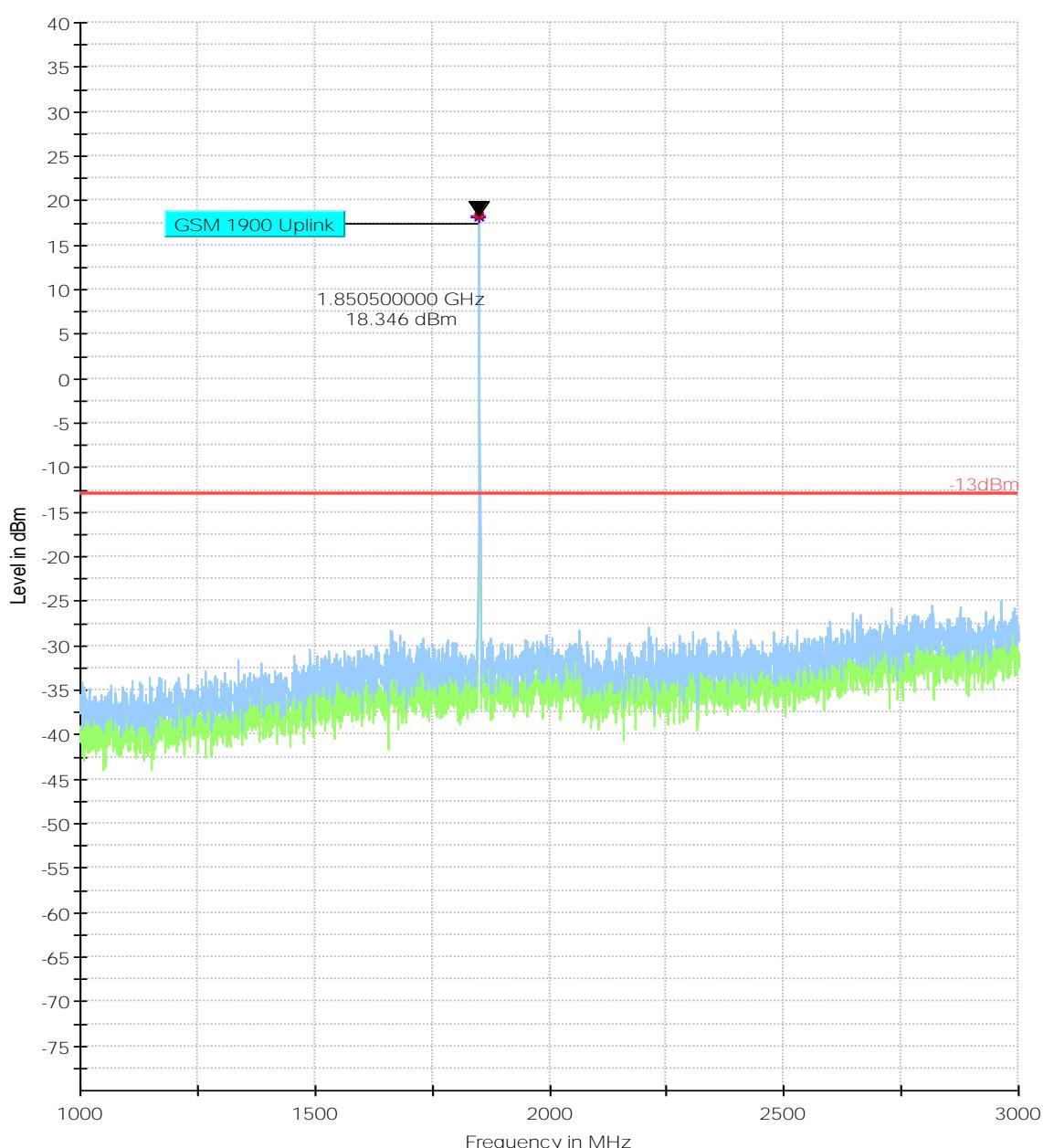
Preview Result 1-PK+
 -13dBm



Critical_Freqs RMS
 Final_Result PK+

Plot # 12 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low

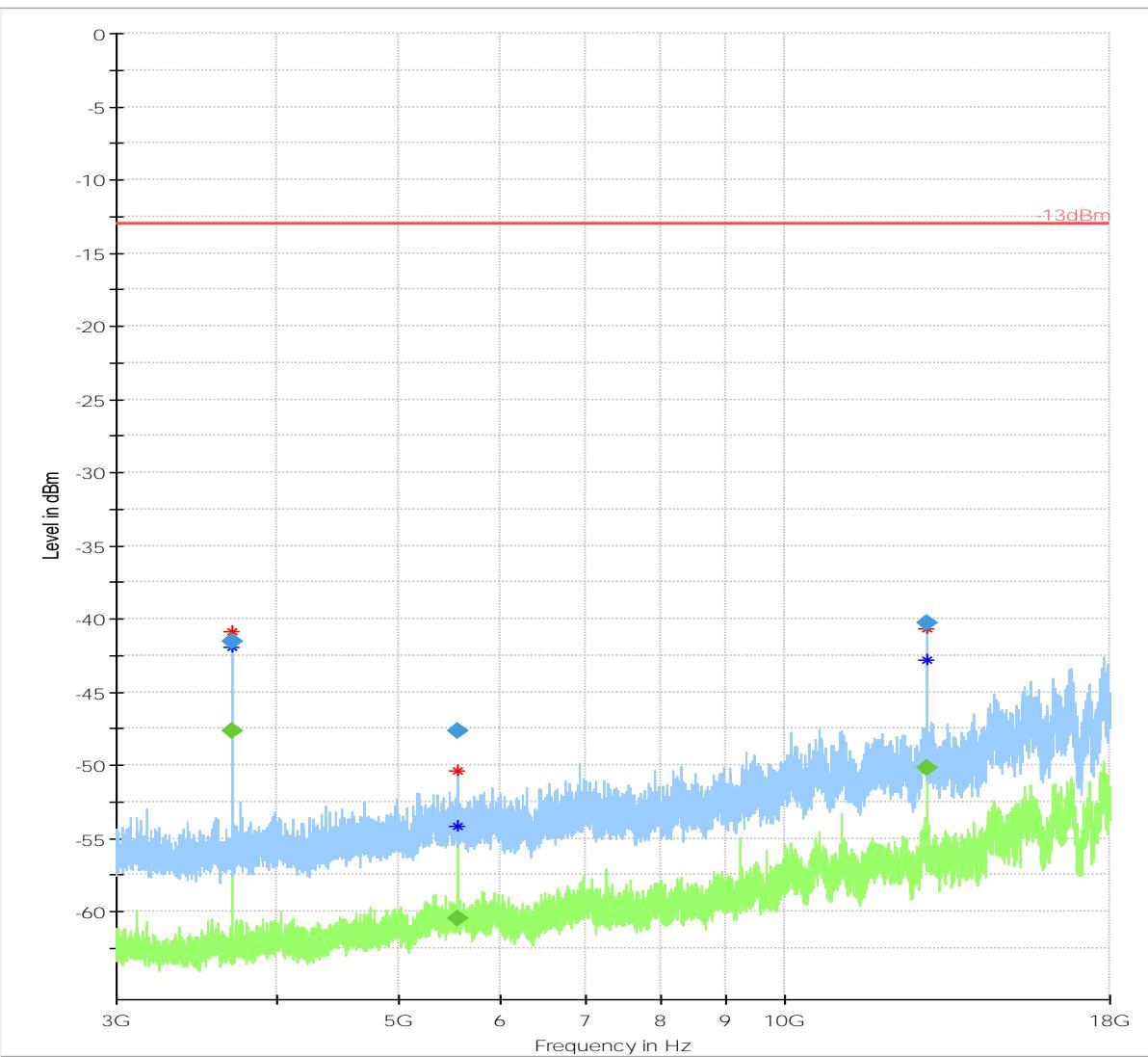


Plot # 13 Radiated Emissions: 3 GHz - 18 GHz

Channel: Low

Final_Result

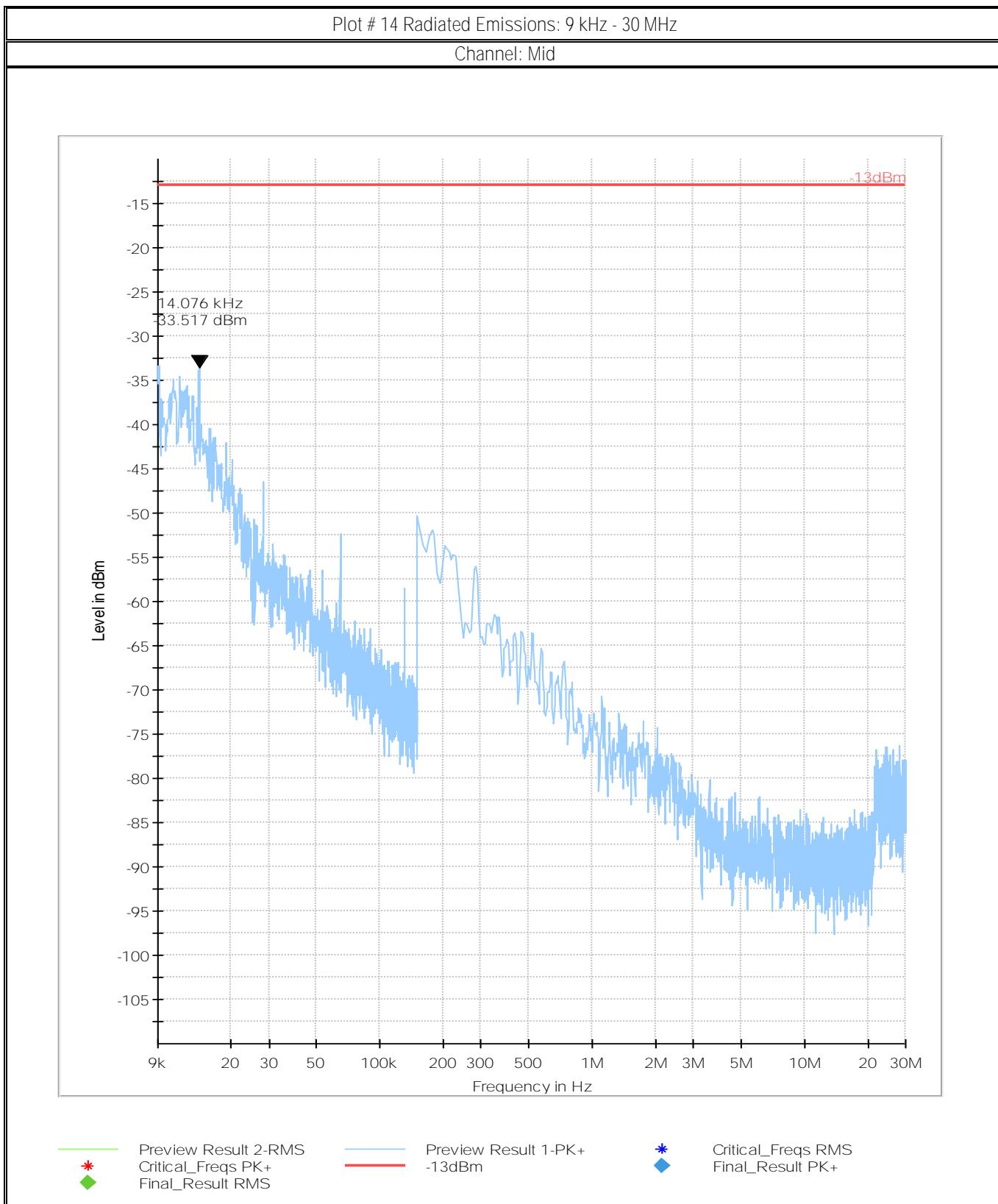
Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3699.983333	-41.52	---	-13.00	28.52	200.0	1000.000	149.0	H	317.0	-130.8
3700.572667	---	-47.63	---	---	200.0	1000.000	150.0	H	318.0	-130.7
5550.532000	---	-60.45	---	---	200.0	1000.000	125.0	H	110.0	-126.6
5550.760667	-47.70	---	-13.00	34.70	200.0	1000.000	132.0	H	110.0	-126.6
12951.592667	---	-50.16	---	---	200.0	1000.000	154.0	V	149.0	-116.0
12951.732667	-40.25	---	-13.00	27.25	200.0	1000.000	180.0	V	56.0	-116.0

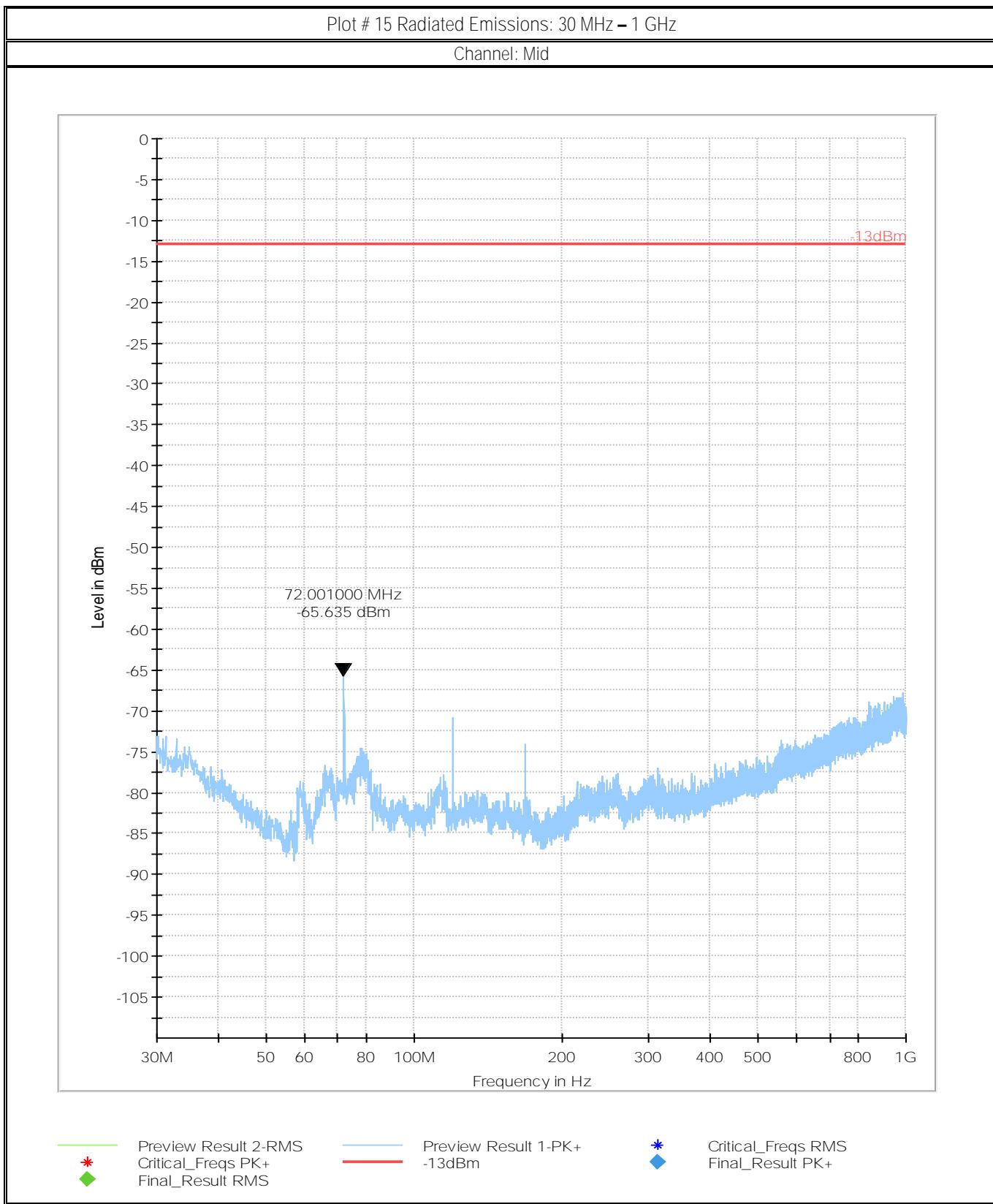


* Critical_Freqs PK+
 ♦ Final_Result RMS

— Preview Result 2-RMS
 — Preview Result 1-PK+

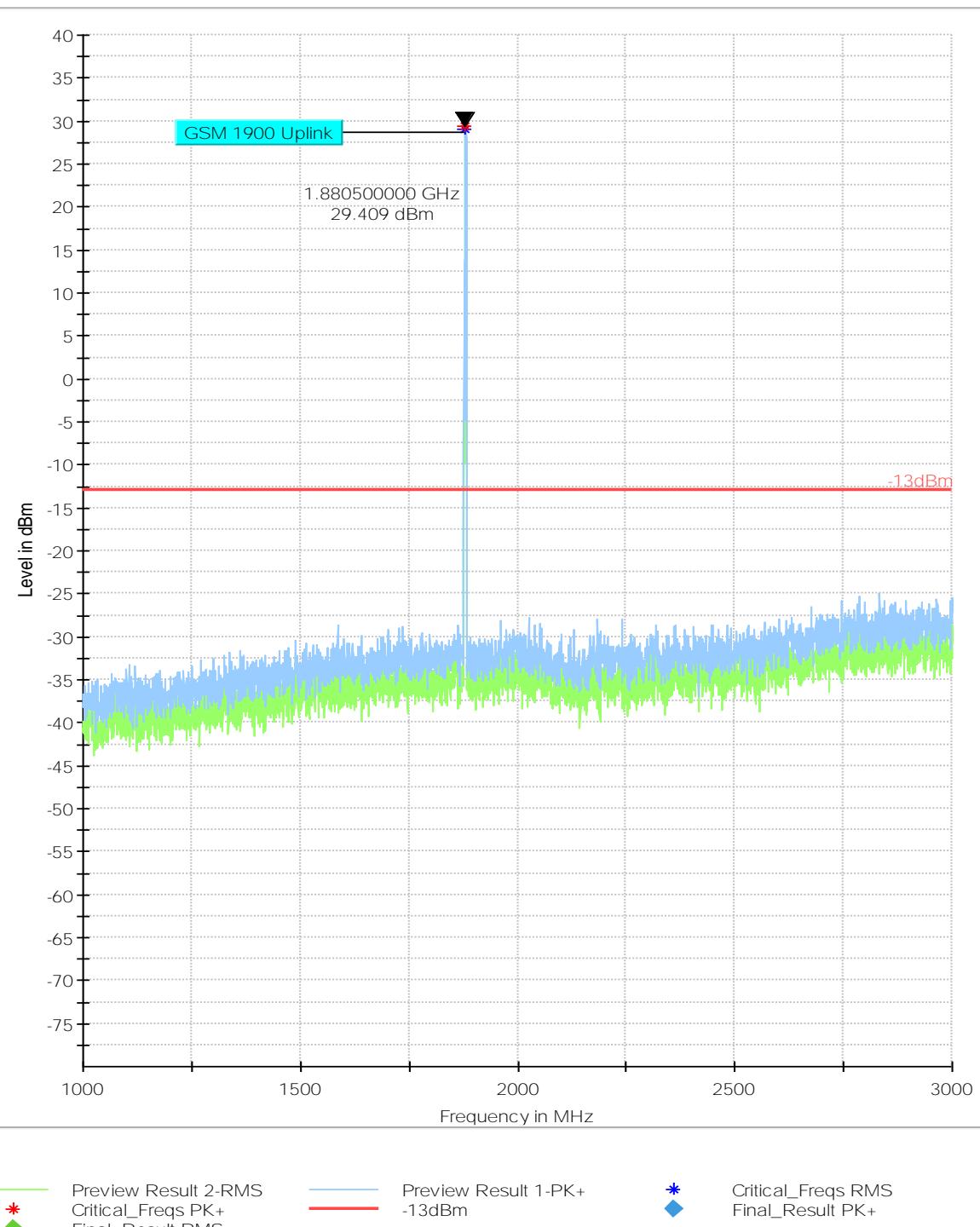
* Critical_Freqs RMS
 ♦ Final_Result PK+





Plot #16 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

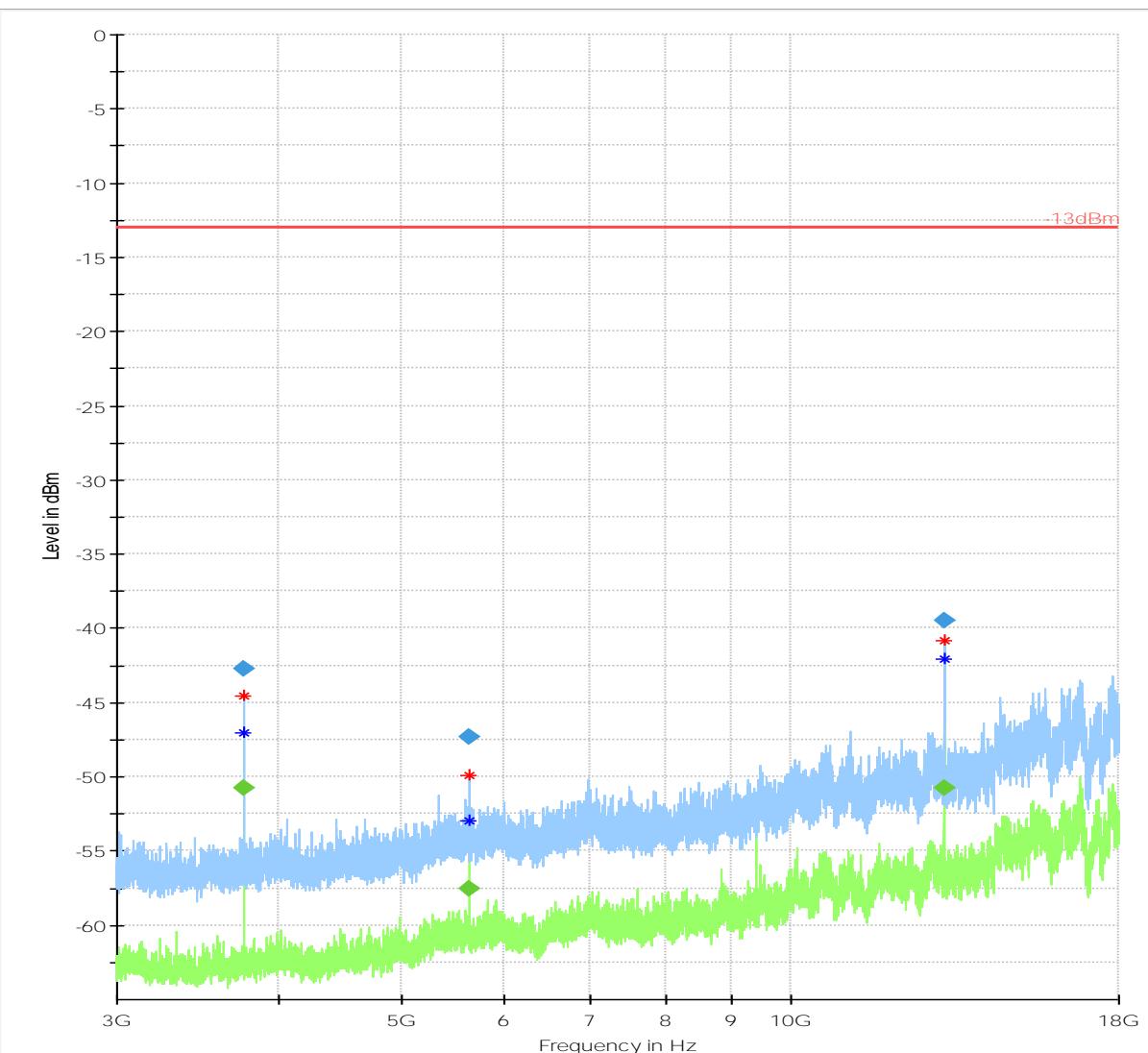


Plot # 17 Radiated Emissions: 3 GHz – 18GHz

Channel: Mid

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3759.859333	---	-50.72	---	---	200.0	1000.000	143.0	H	16.0	-130.4
3760.100000	-42.73	---	-13.00	29.73	200.0	1000.000	269.0	H	16.0	-130.4
5640.086667	---	-57.55	---	---	200.0	1000.000	186.0	V	65.0	-126.5
5640.288667	-47.35	---	-13.00	34.35	200.0	1000.000	120.0	V	66.0	-126.5
13159.814667	---	-50.74	---	---	200.0	1000.000	196.0	H	108.0	-116.4
13159.912667	-39.45	---	-13.00	26.45	200.0	1000.000	198.0	H	108.0	-116.4



*
◆

Preview Result 2-RMS
 Critical_Freqs PK+
 Final_Result RMS

—
—

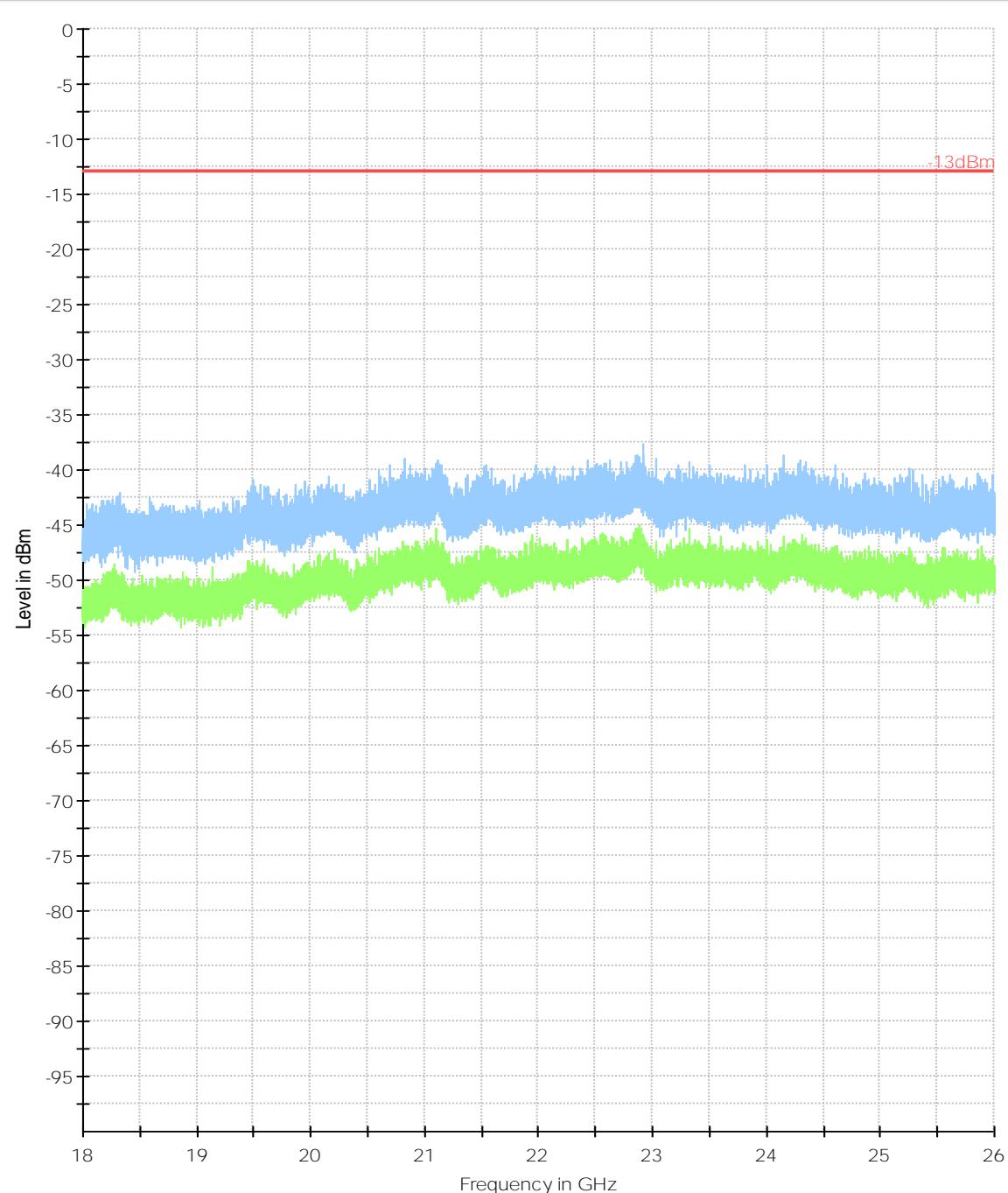
Preview Result 1-PK+
 -13dBm

*
◆

Critical_Freqs RMS
 Final_Result PK+

Plot # 18 Radiated Emissions: 18 GHz – 26GHz

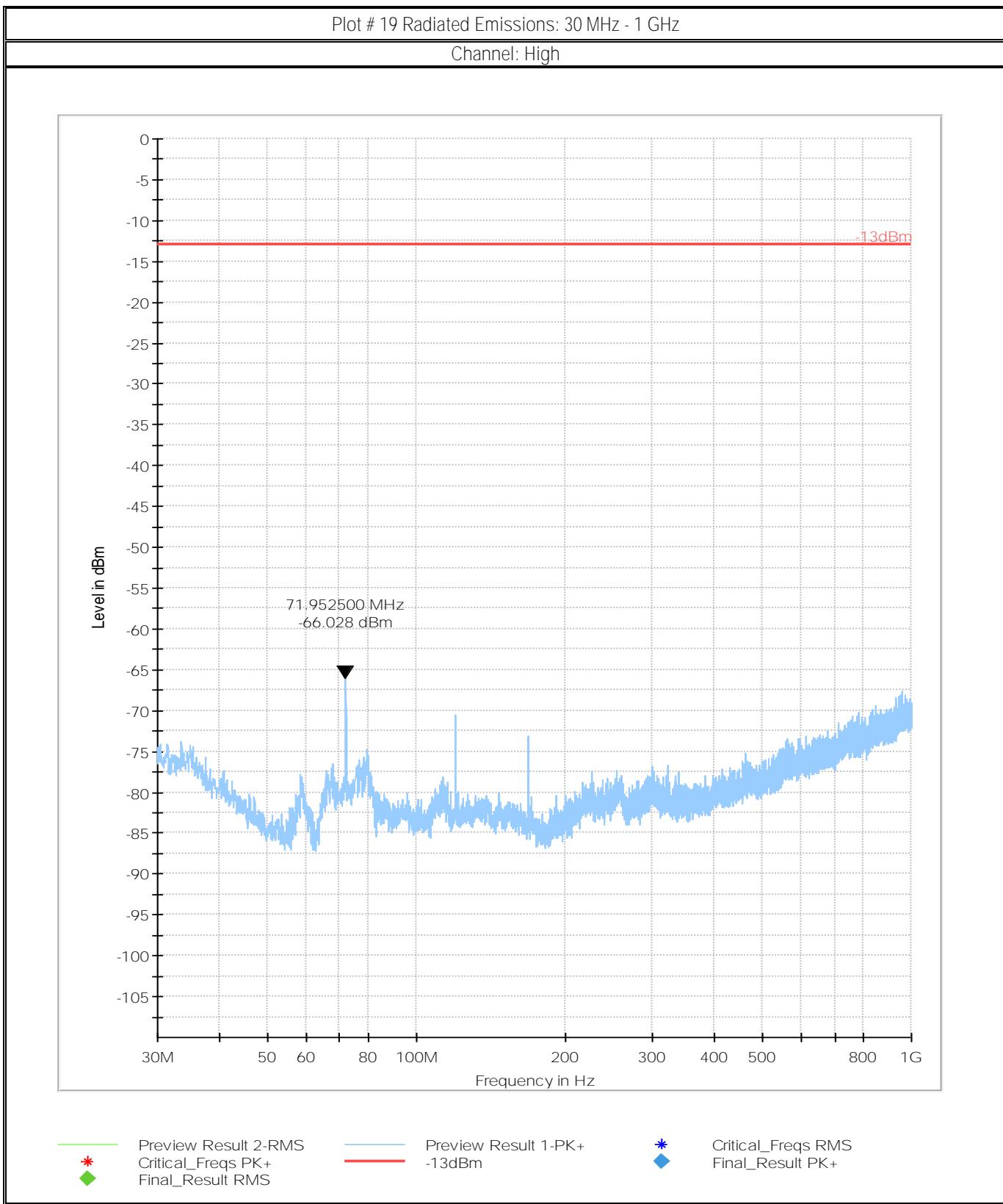
Channel: Mid



* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

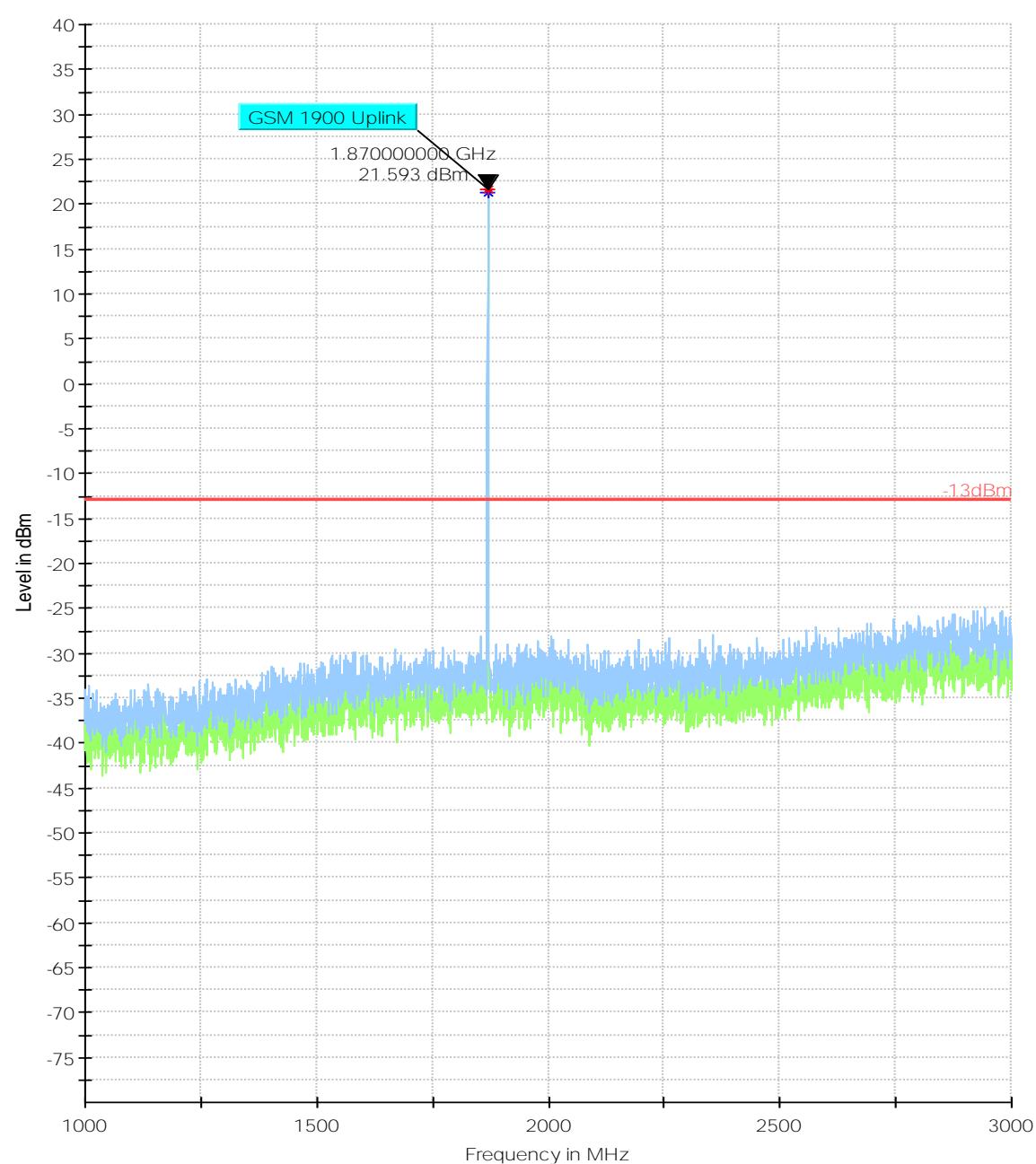
Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+



Plot # 20 Radiated Emissions: 1 GHz - 3 GHz

Channel: High



* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

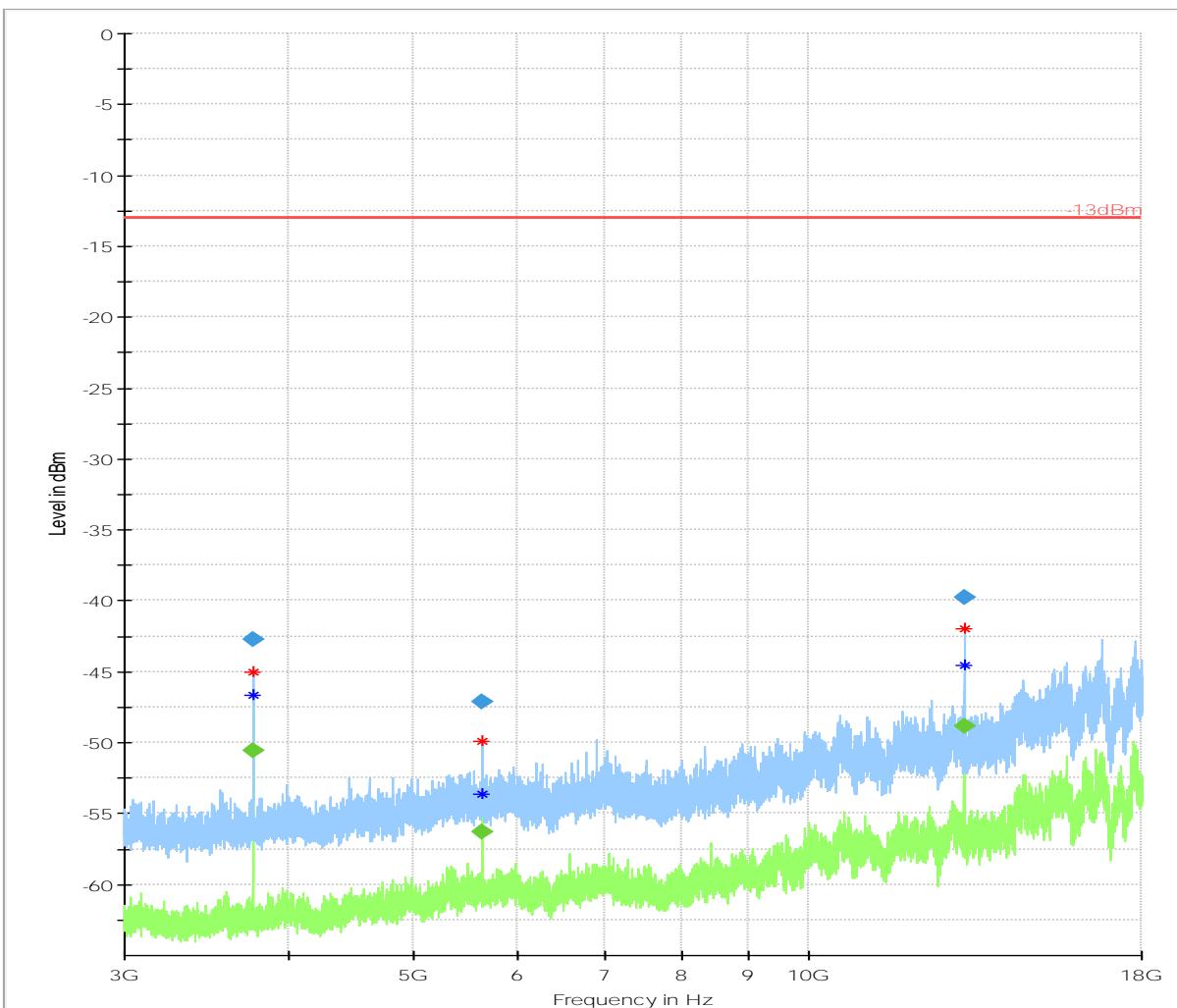
* Critical_Freqs RMS
Final_Result PK+

Plot # 21 Radiated Emissions: 3 GHz - 18 GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
3760.066667	-42.75	---	-13.00	29.75	200.0	1000.000	143.0	H	148.0	-130.4
3760.080667	---	-50.55	---	---	200.0	1000.000	143.0	H	146.0	-130.4
5639.813333	-47.08	---	-13.00	34.08	200.0	1000.000	143.0	V	193.0	-126.5
5639.861333	---	-56.28	---	---	200.0	1000.000	144.0	V	194.0	-126.5
13159.797333	-39.81	---	-13.00	26.81	200.0	1000.000	180.0	H	119.0	-116.4
13160.264000	---	-48.86	---	---	200.0	1000.000	180.0	H	119.0	-116.4



Preview Result 2-RMS
 Critical_Freqs PK+
 Final_Result RMS

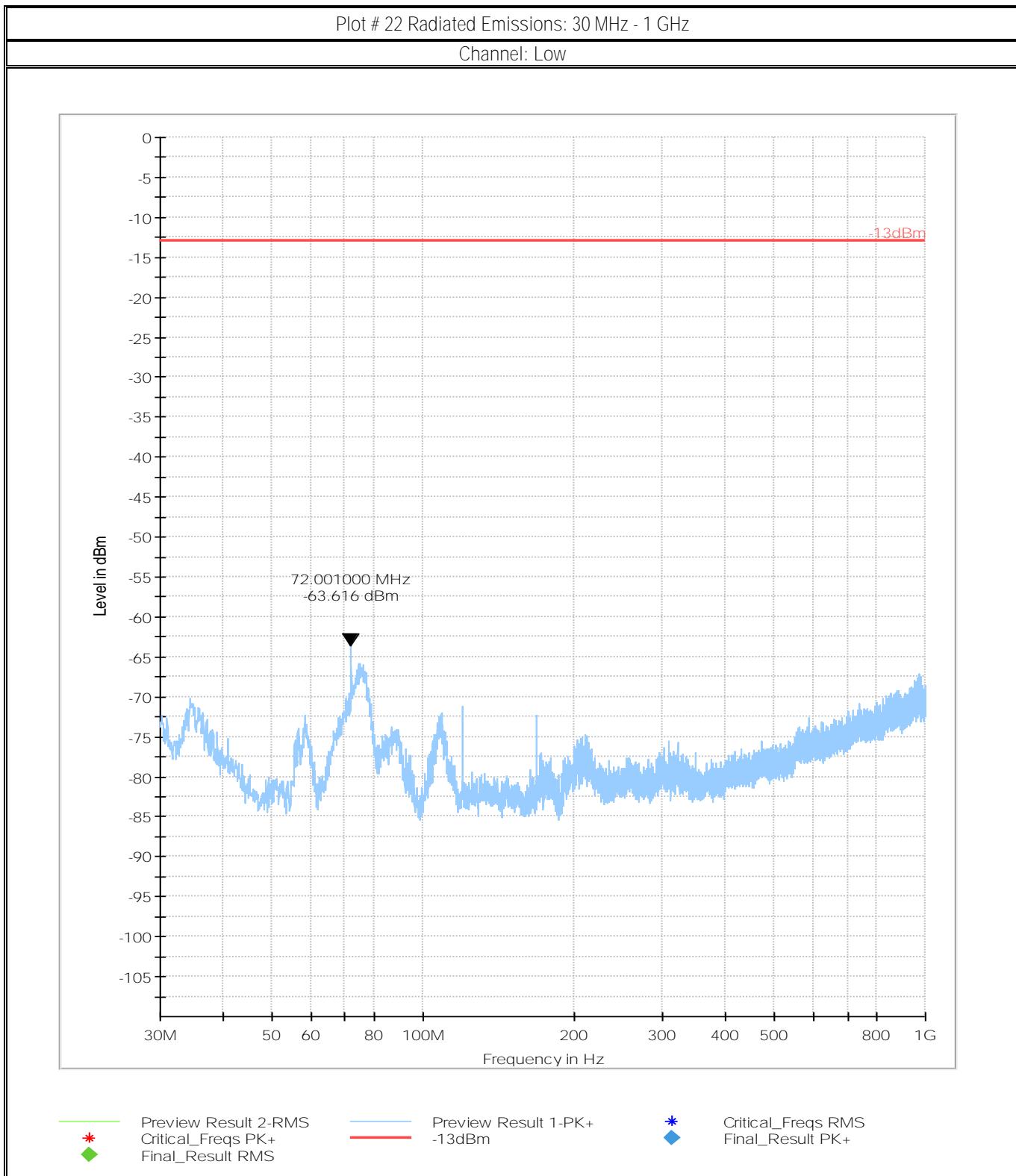


Preview Result 1-PK+
 -13dBm



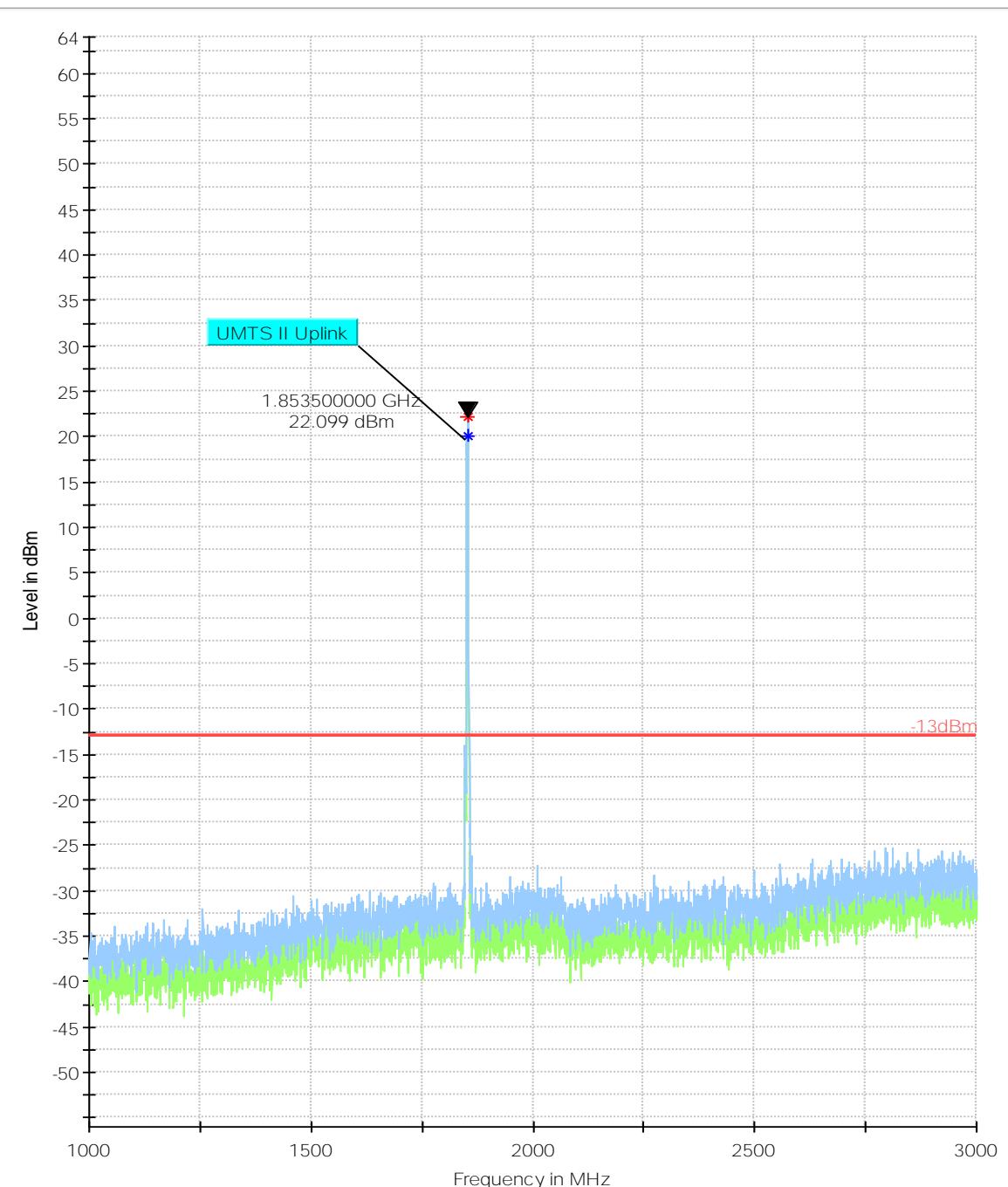
Critical_Freqs RMS
 Final_Result PK+

UMTS Band II



Plot # 23 Radiated Emissions: 1 GHz - 3 GHz

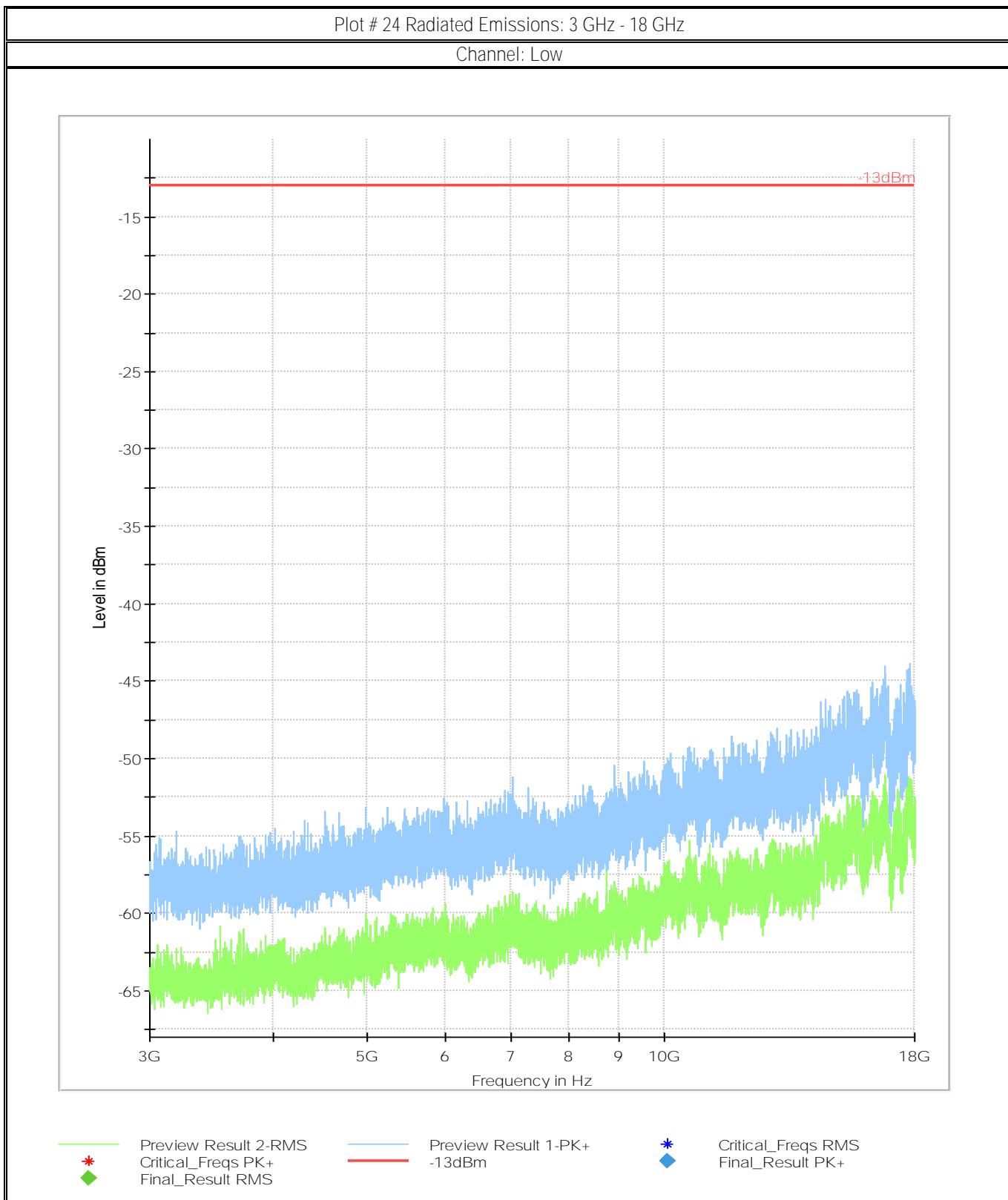
Channel: Low



* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

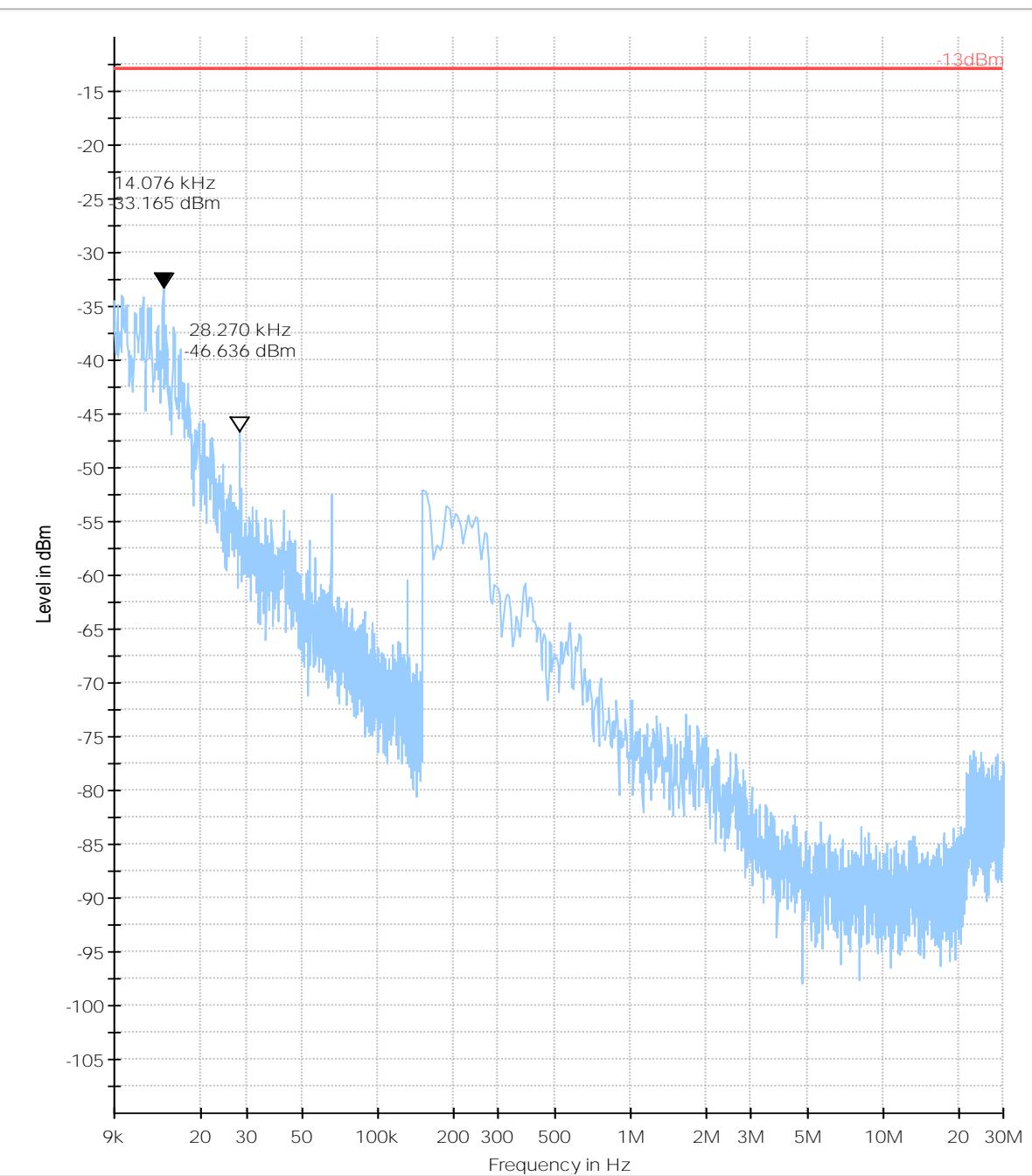
Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+



Plot # 25 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid



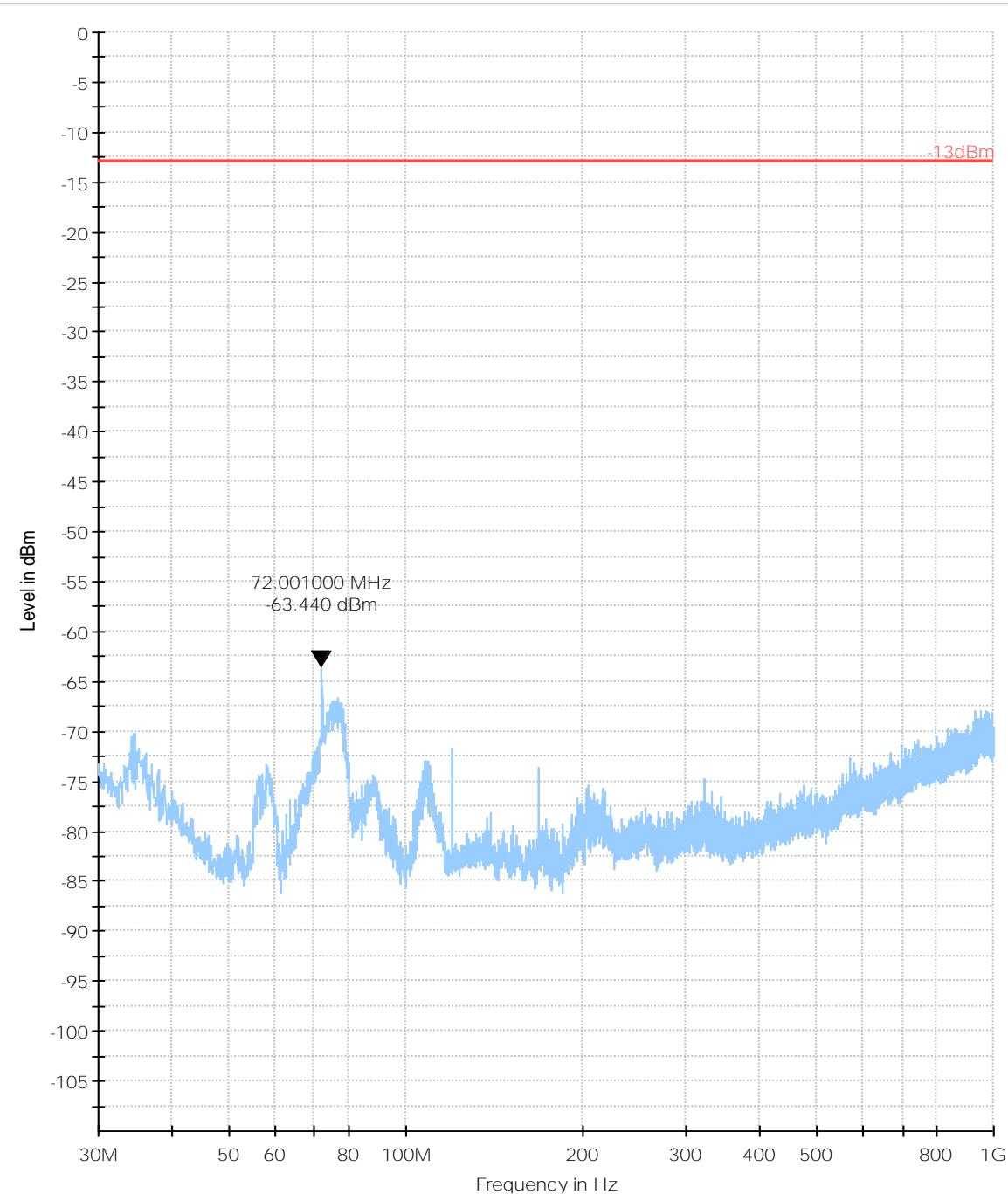
Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 26 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid



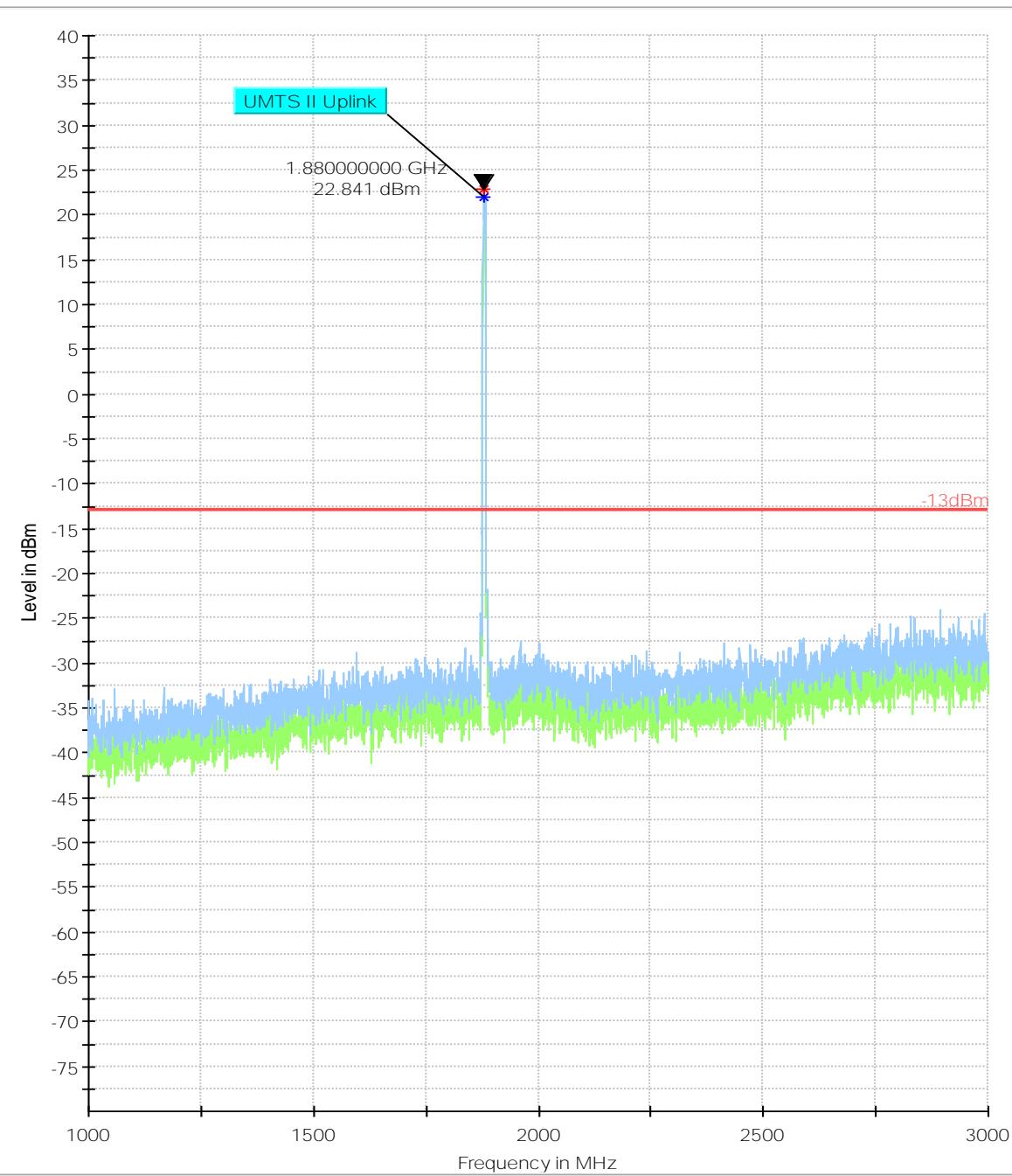
Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 27 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid



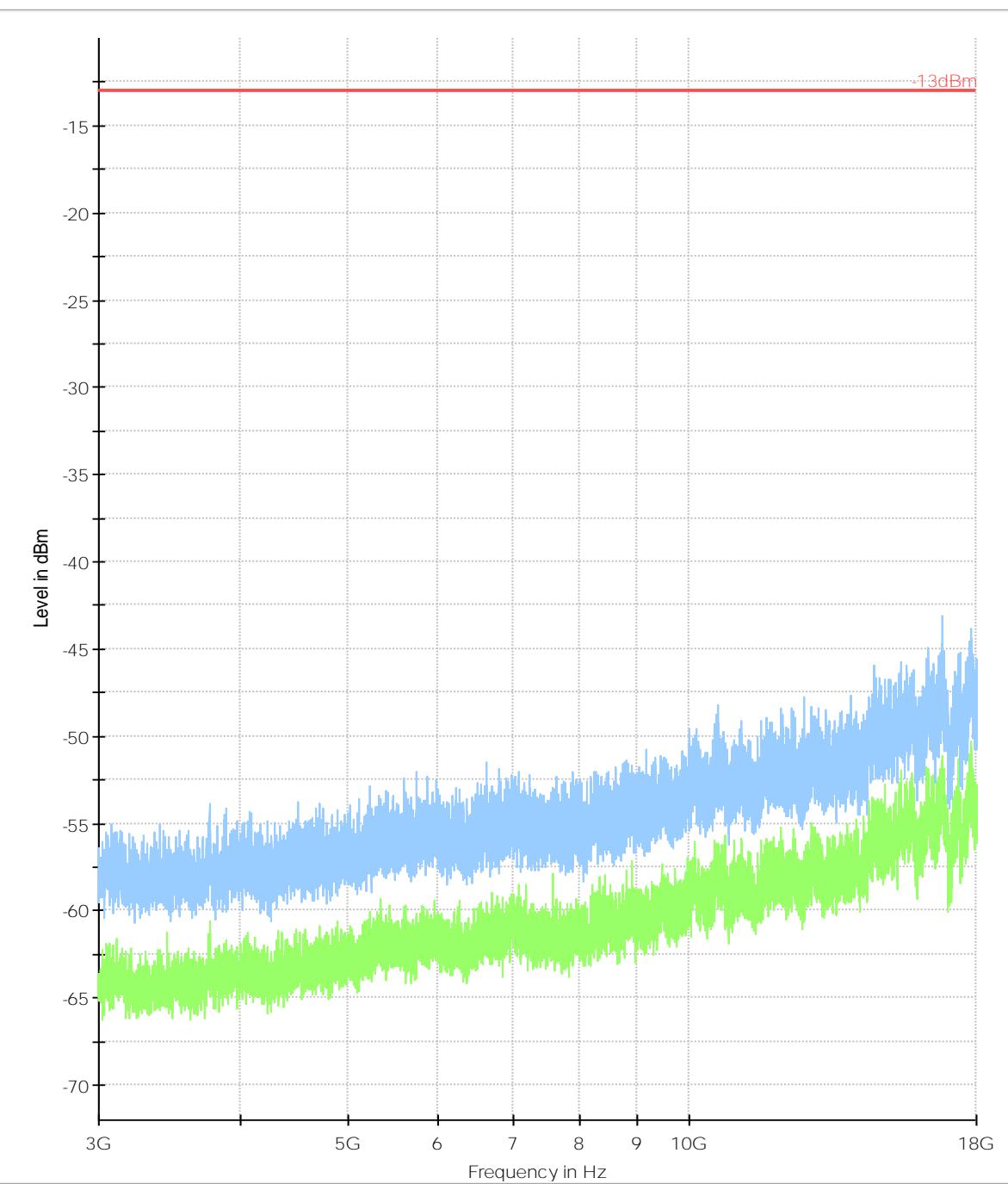
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 28 Radiated Emissions: 3 GHz – 18GHz

Channel: Mid



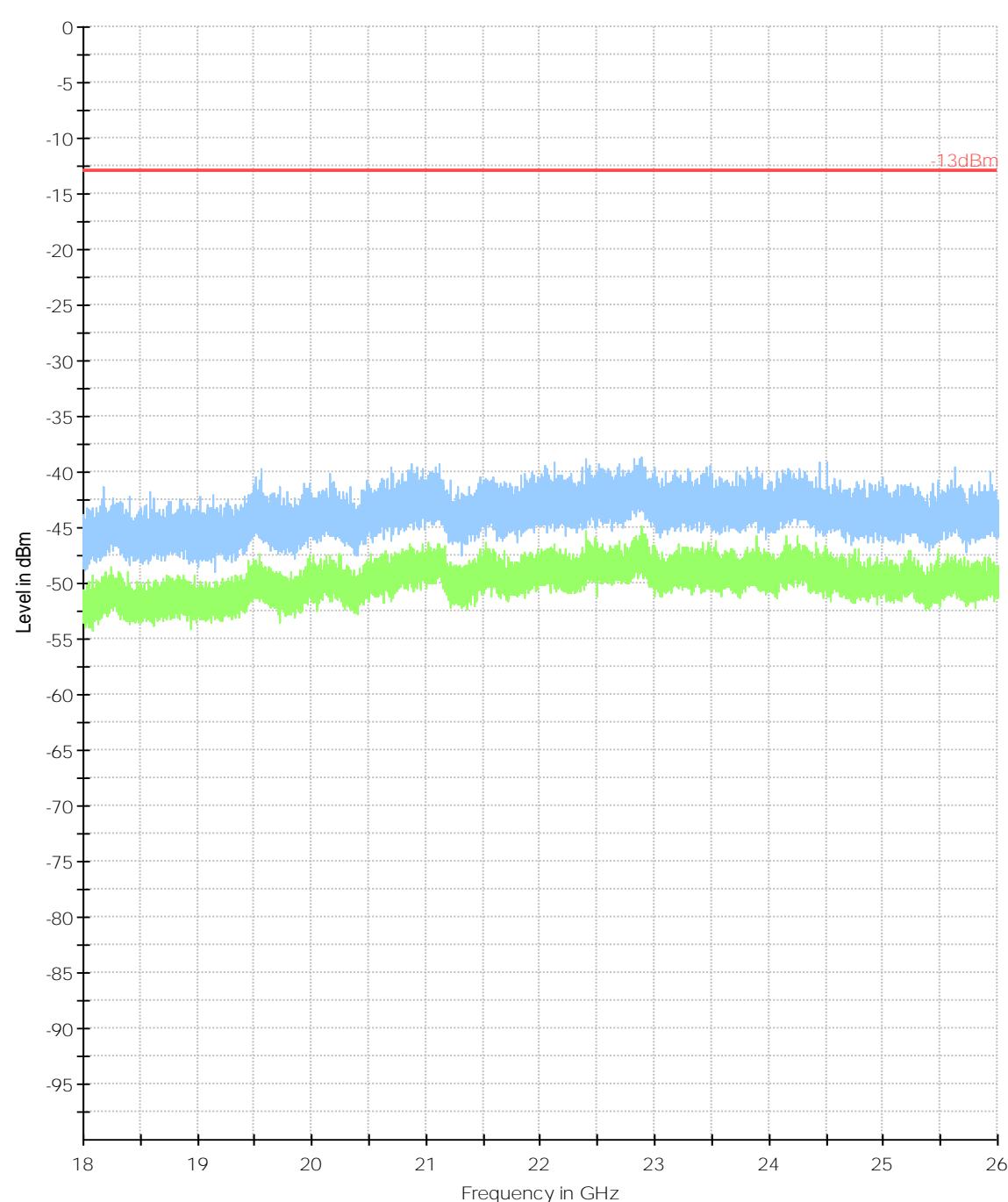
*
◆ Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

— Preview Result 1-PK+
-13dBm

*
◆ Critical_Freqs RMS
Final_Result PK+

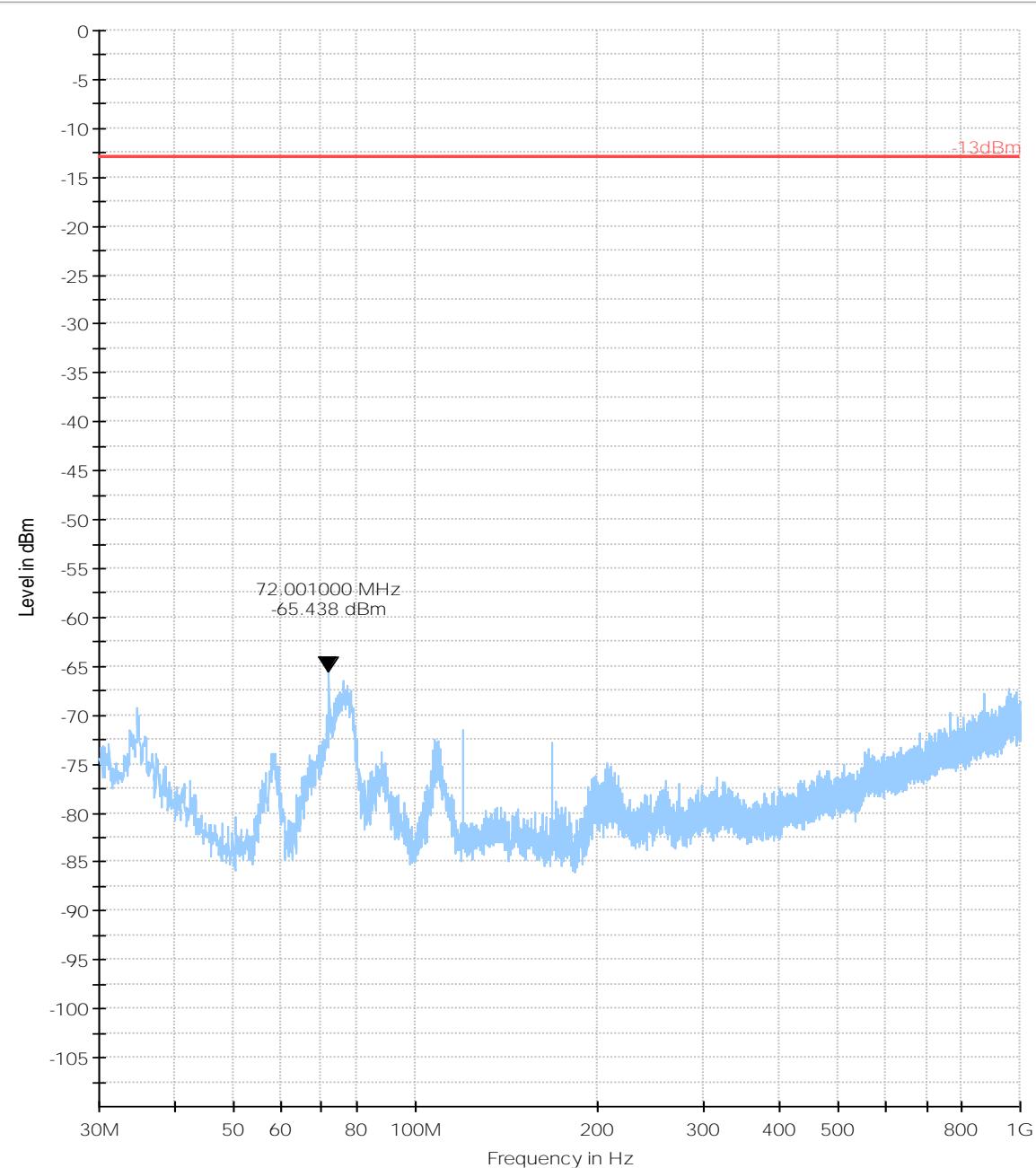
Plot # 29 Radiated Emissions: 18 GHz – 26GHz

Channel: Mid

Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+

Plot # 30 Radiated Emissions: 30 MHz - 1 GHz

Channel: High



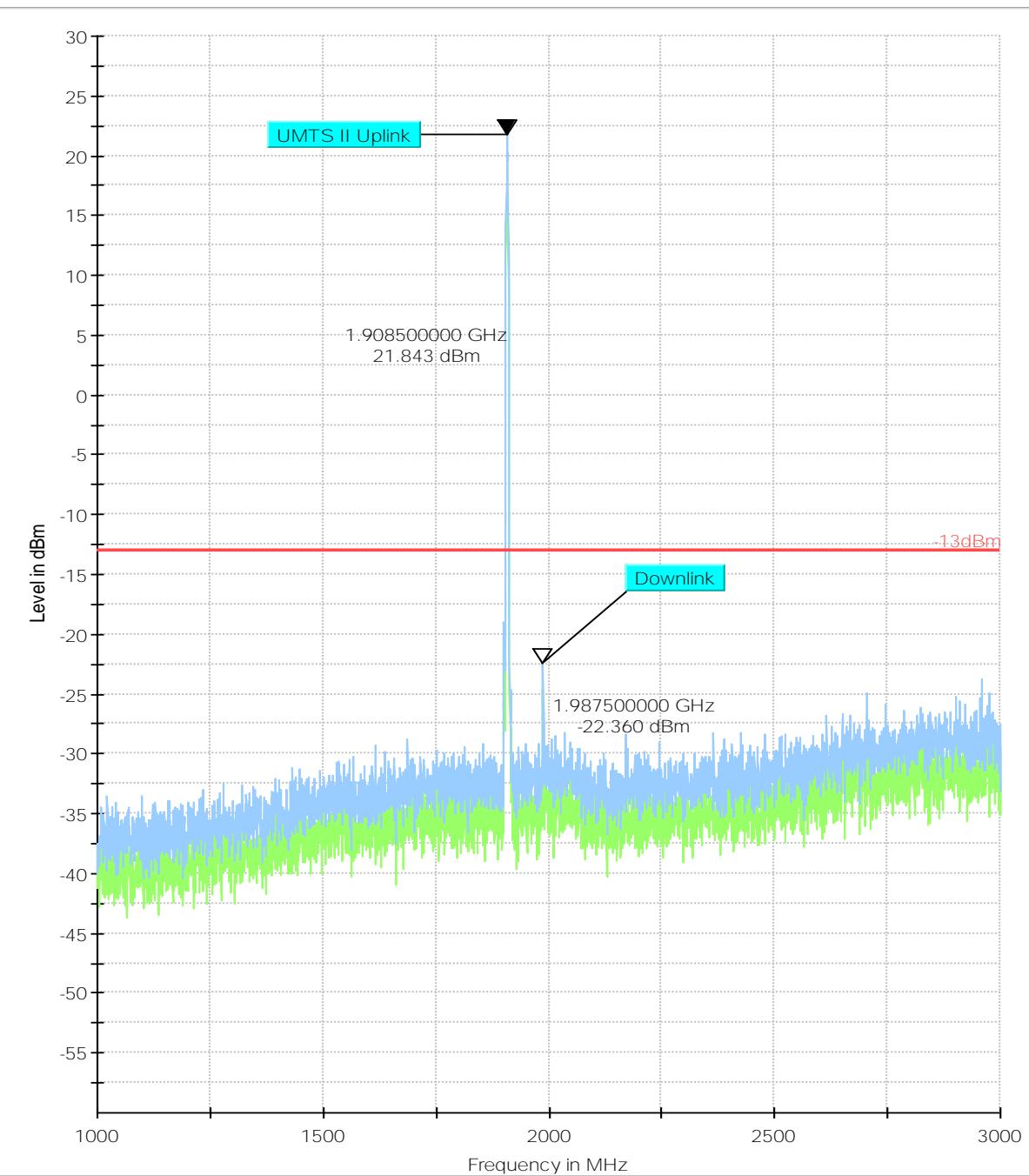
Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

Critical_Freqs RMS
Final_Result PK+

Plot # 31 Radiated Emissions: 1 GHz - 3 GHz

Channel: High



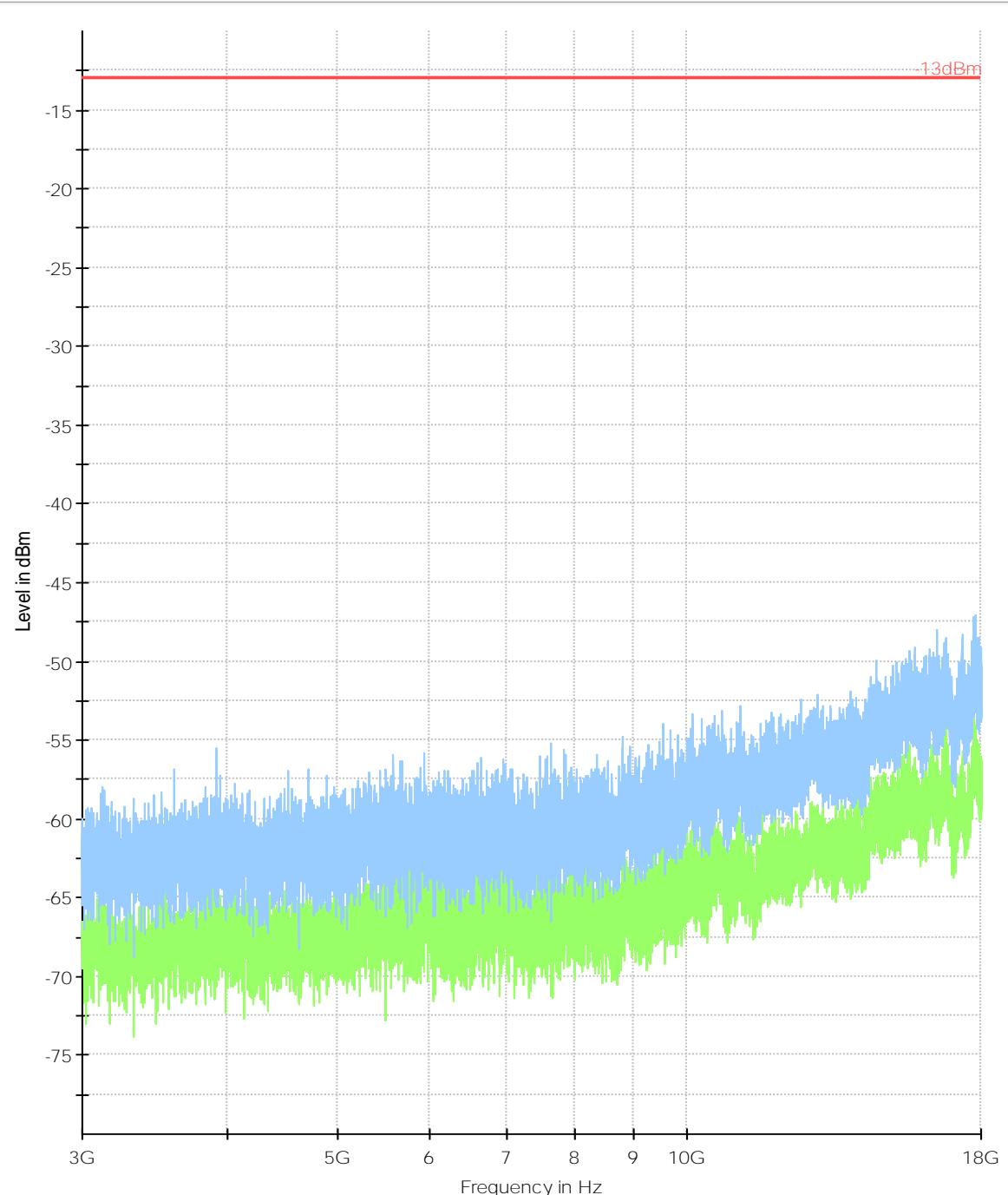
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 32 Radiated Emissions: 3 GHz - 18 GHz

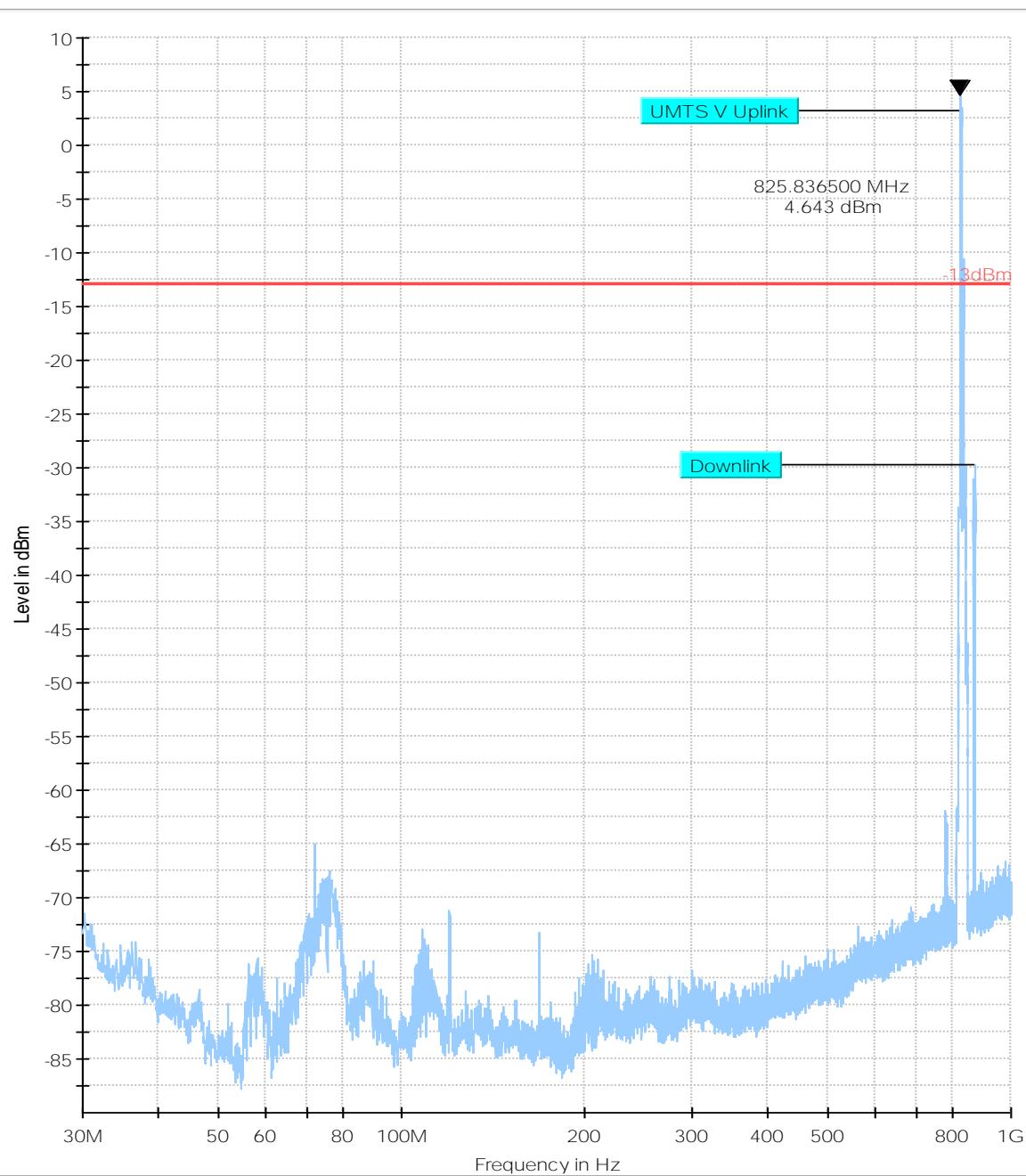
Channel: High

Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+

UMTS Band V

Plot # 33 Radiated Emissions: 30 MHz - 1 GHz

Channel: Low



* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

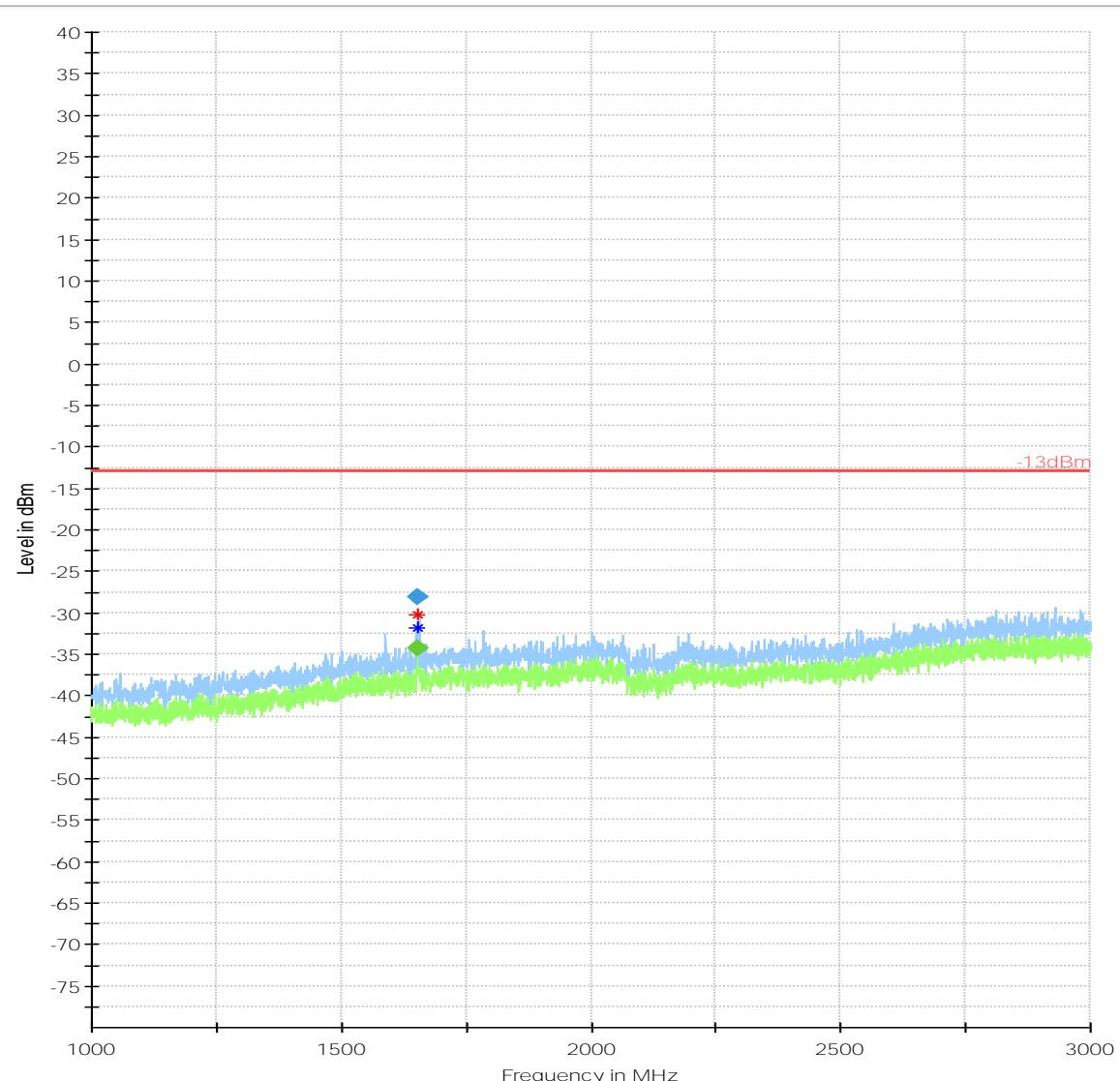
* Critical_Freqs RMS
Final_Result PK+

Plot # 34 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1654.195000	---	-34.29	-13.00	-21.29	500.0	1000.000	134.0	V	22.0	-87.3
1654.715000	-28.16	---	-13.00	15.16	500.0	1000.000	130.0	V	25.0	-87.3



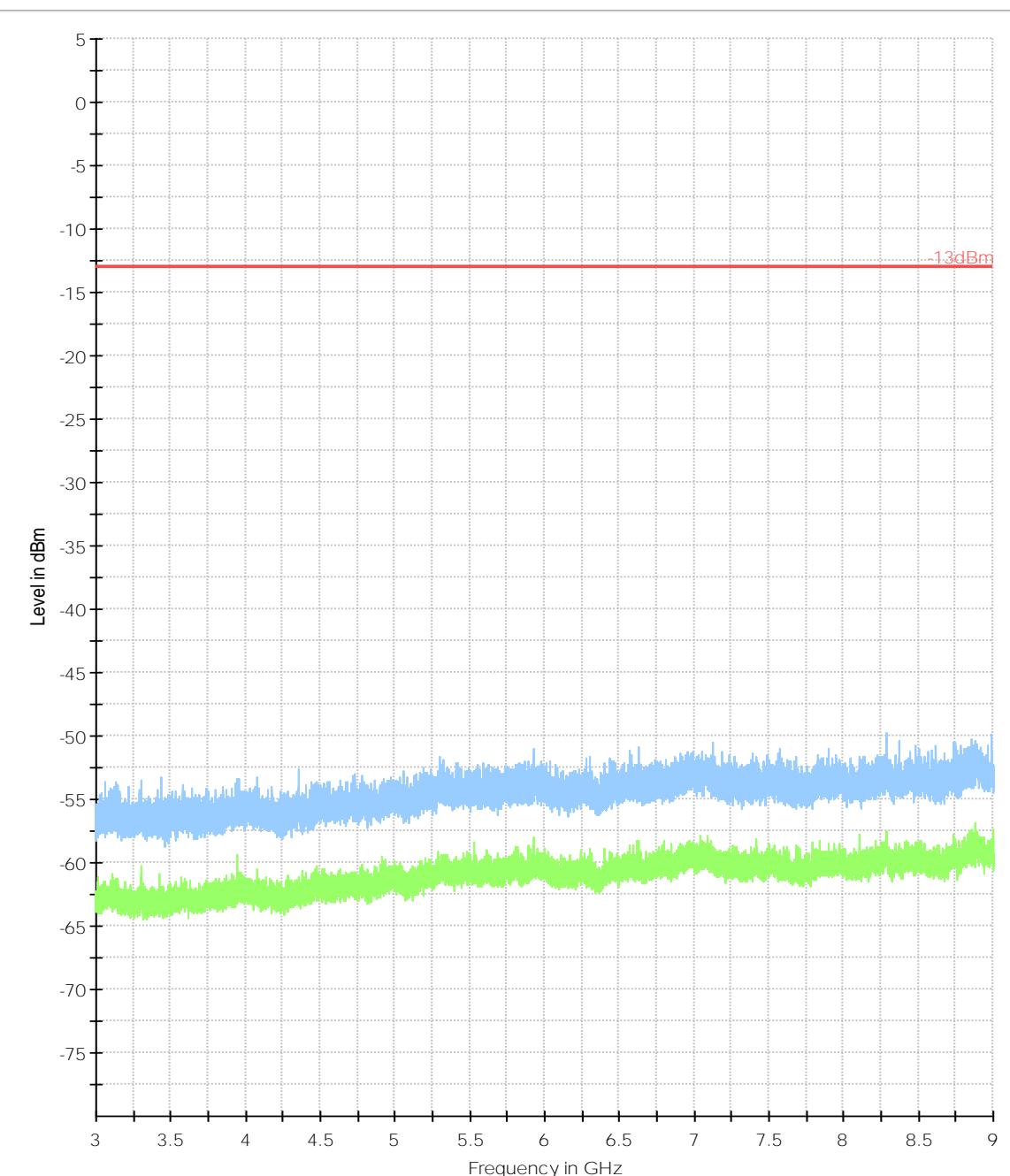
* Preview Result 2-RMS
 Critical_Freqs PK+
 Final_Result RMS

Preview Result 1-PK+
 -13dBm

* Critical_Freqs RMS
 Final_Result PK+

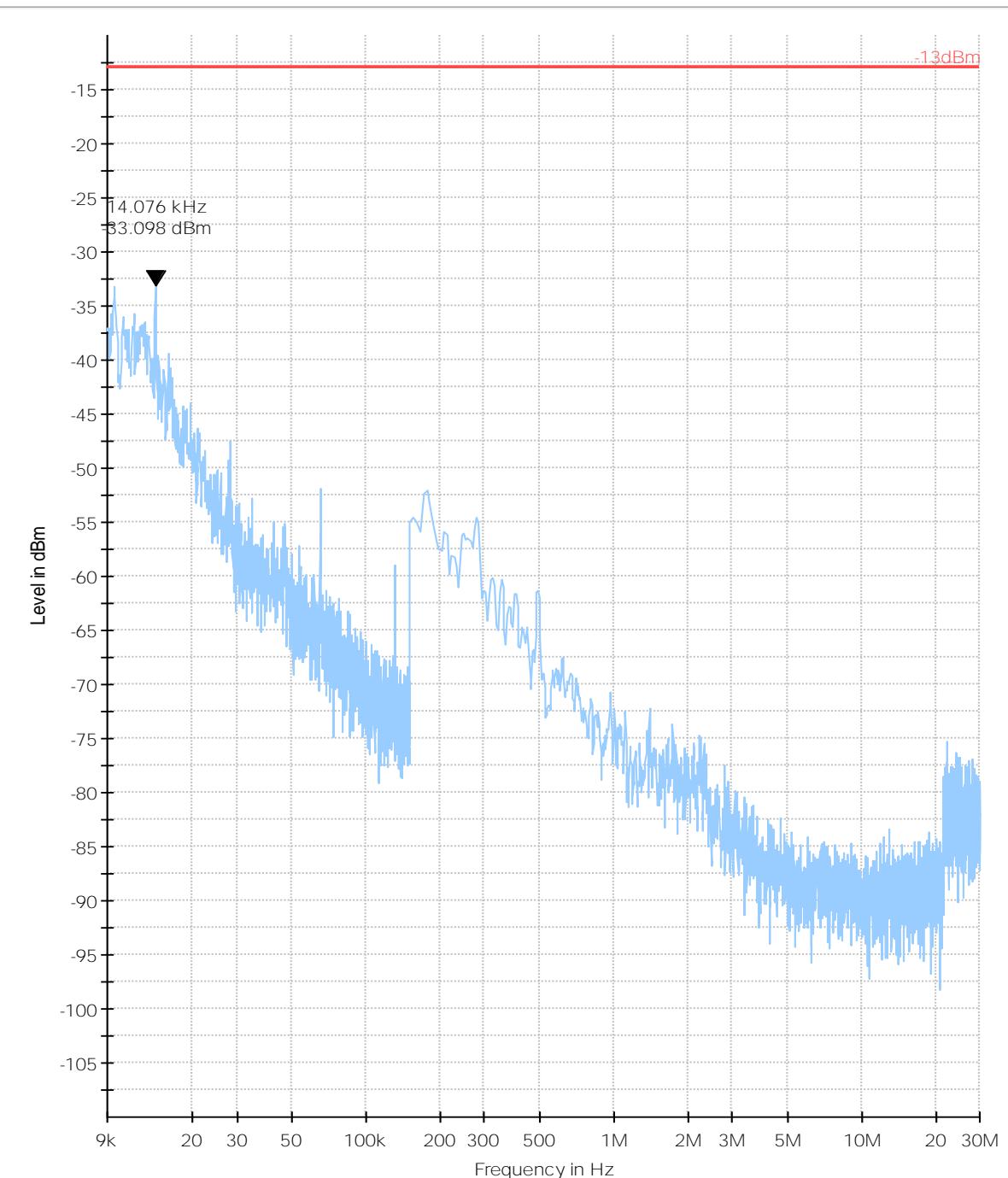
Plot # 35 Radiated Emissions: 3 GHz - 9 GHz

Channel: Low

Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+

Plot # 36 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid



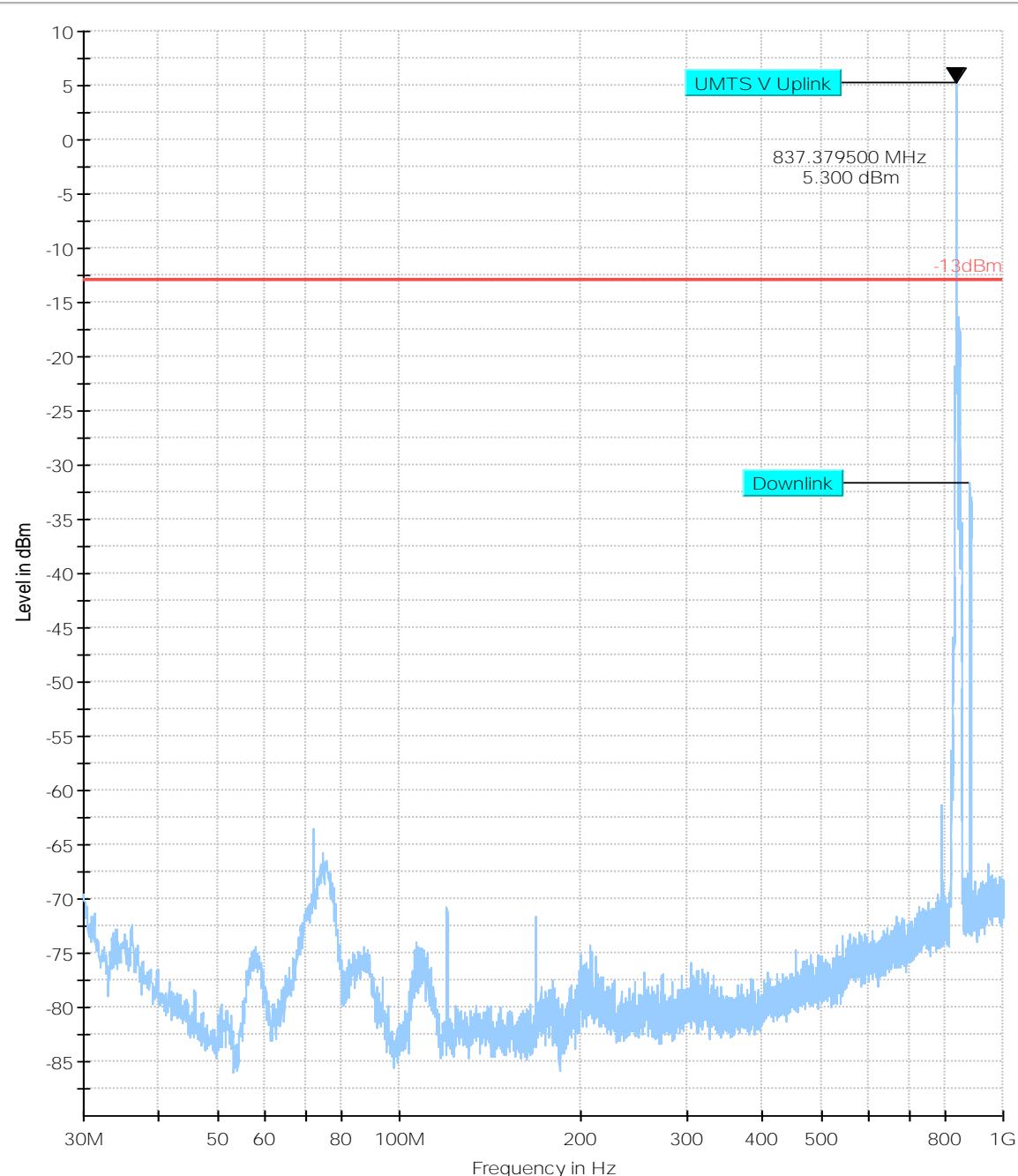
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 37 Radiated Emissions: 30 MHz - 1GHz

Channel: Mid



* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

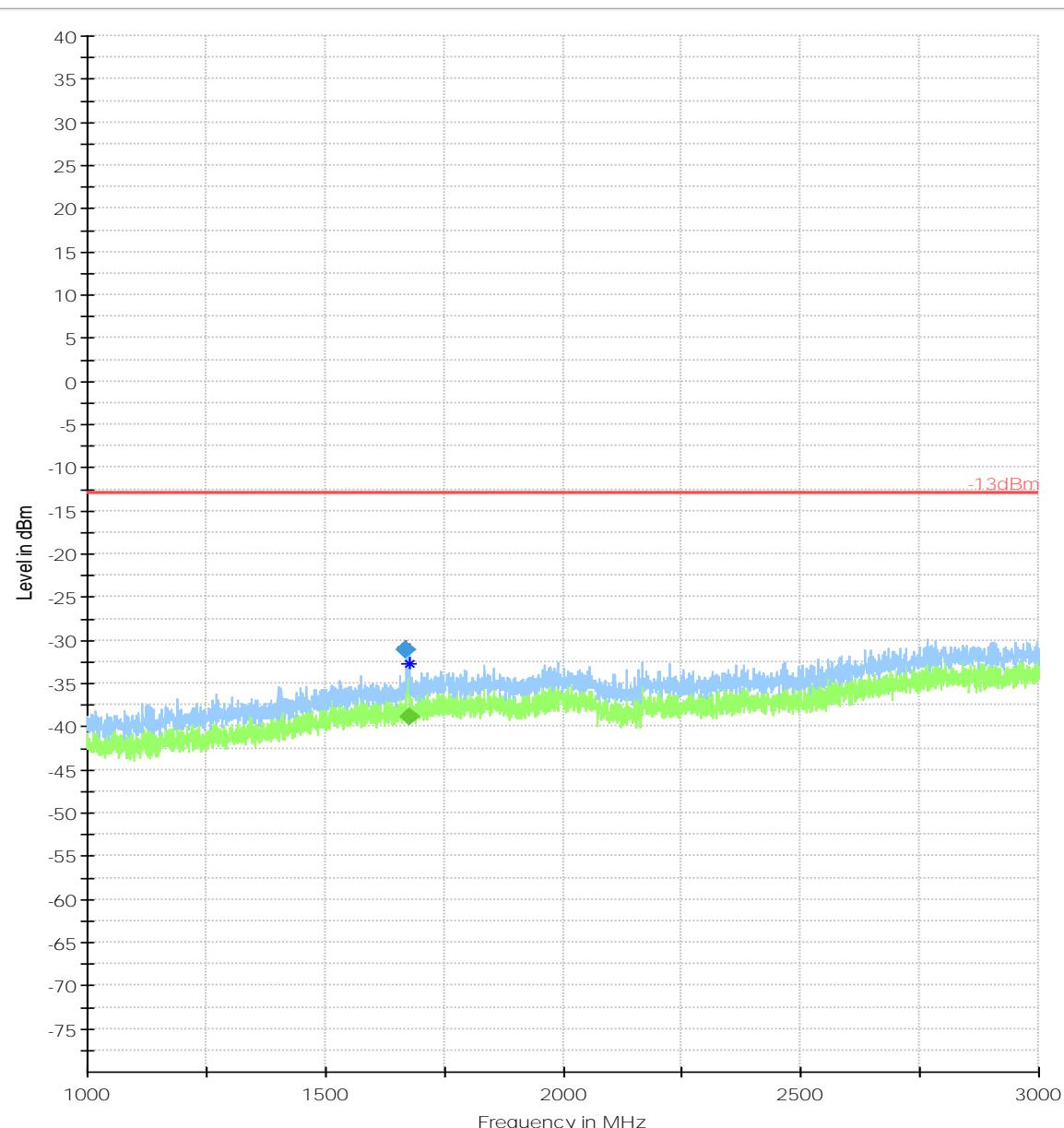
* Critical_Freqs RMS
Final_Result PK+

Plot # 38 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1671.005000	-31.09	---	-13.00	18.09	500.0	1000.000	133.0	V	14.0	-87.1
1675.780000	---	-38.83	-13.00	25.83	500.0	1000.000	132.0	V	9.0	-87.1



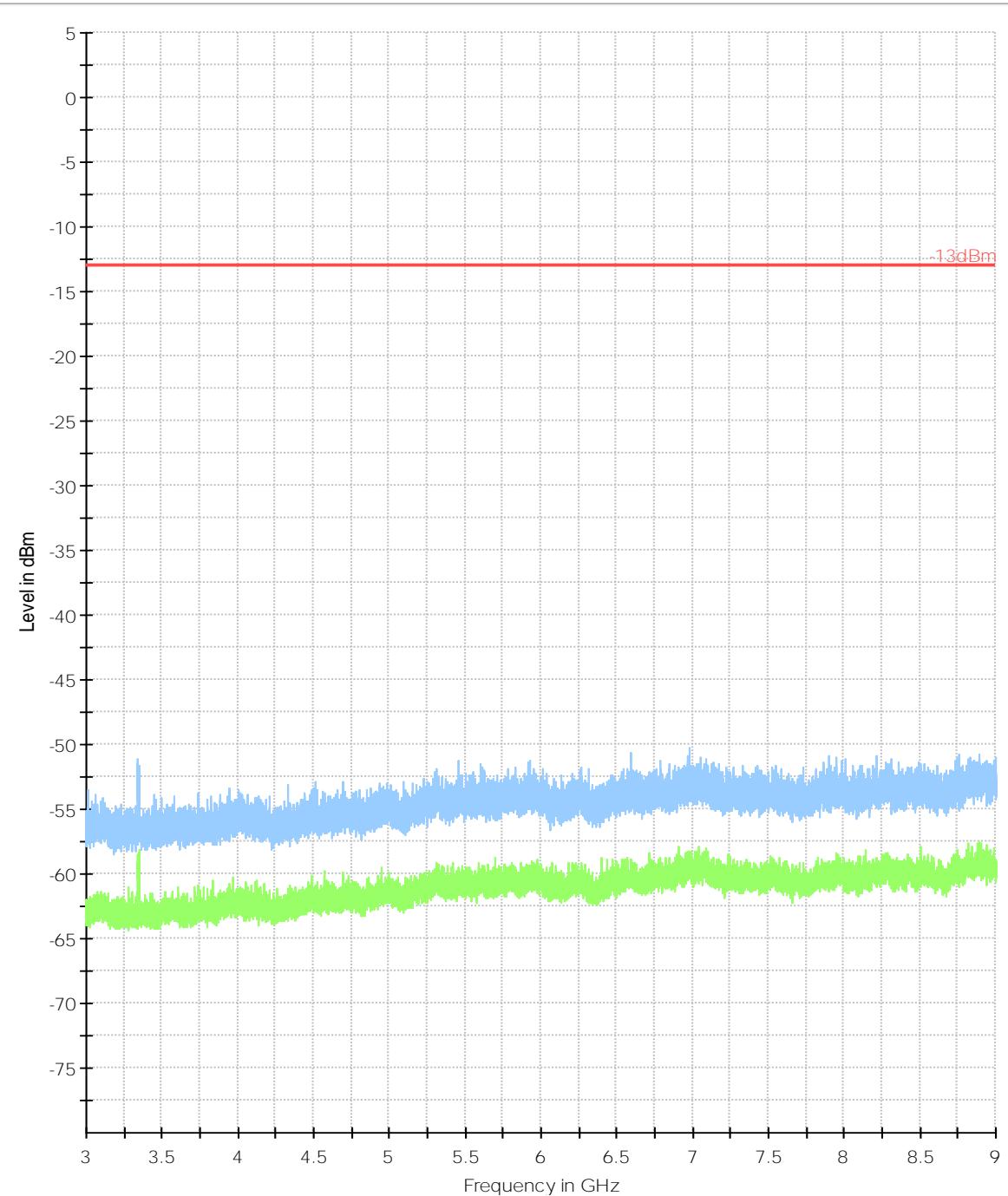
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 39 Radiated Emissions: 3 GHz – 9 GHz

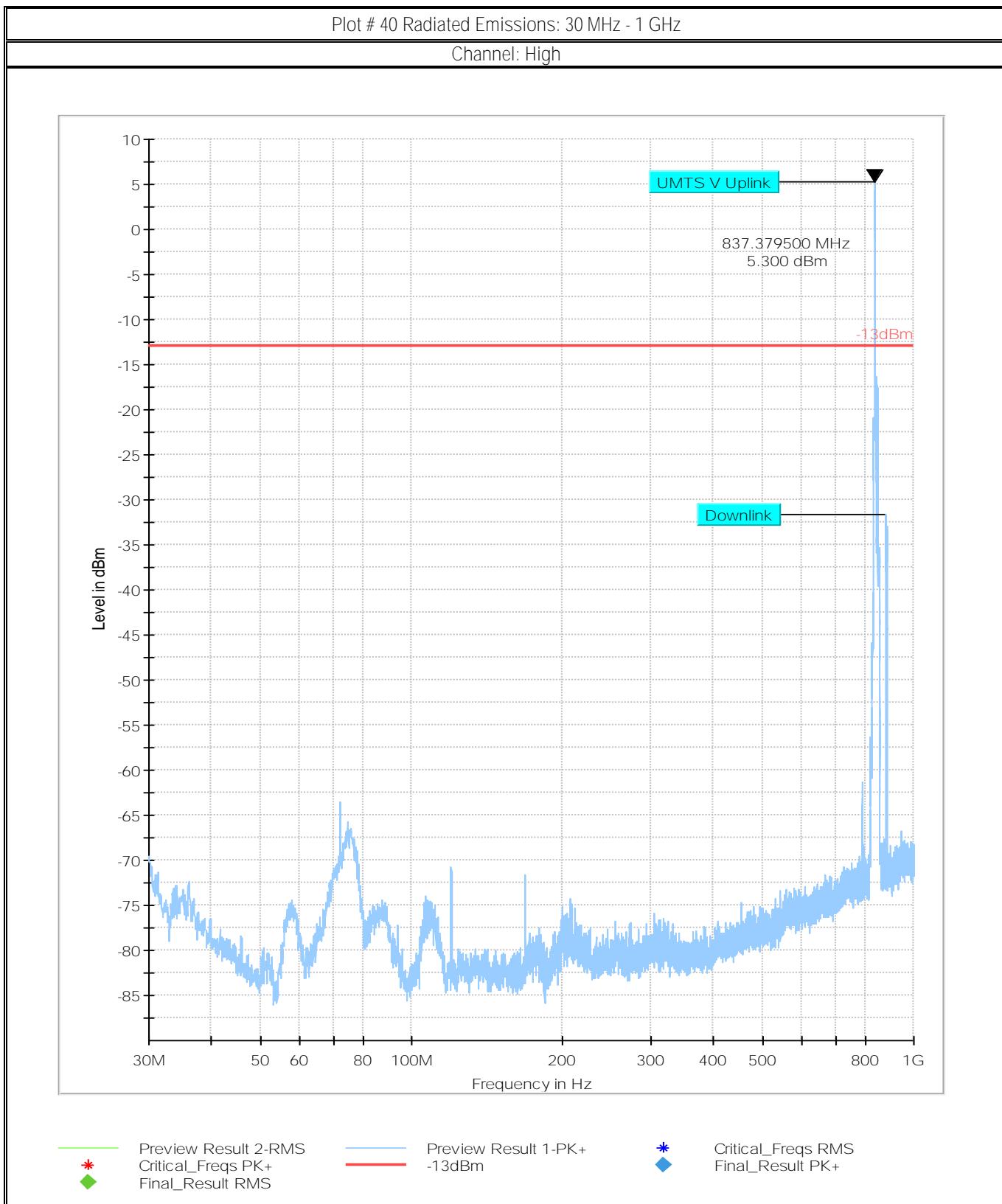
Channel: Mid



Preview Result 2-RMS
* Critical_Freqs PK+
◆ Final_Result RMS

Preview Result 1-PK+
— -13dBm

* Critical_Freqs RMS
◆ Final_Result PK+

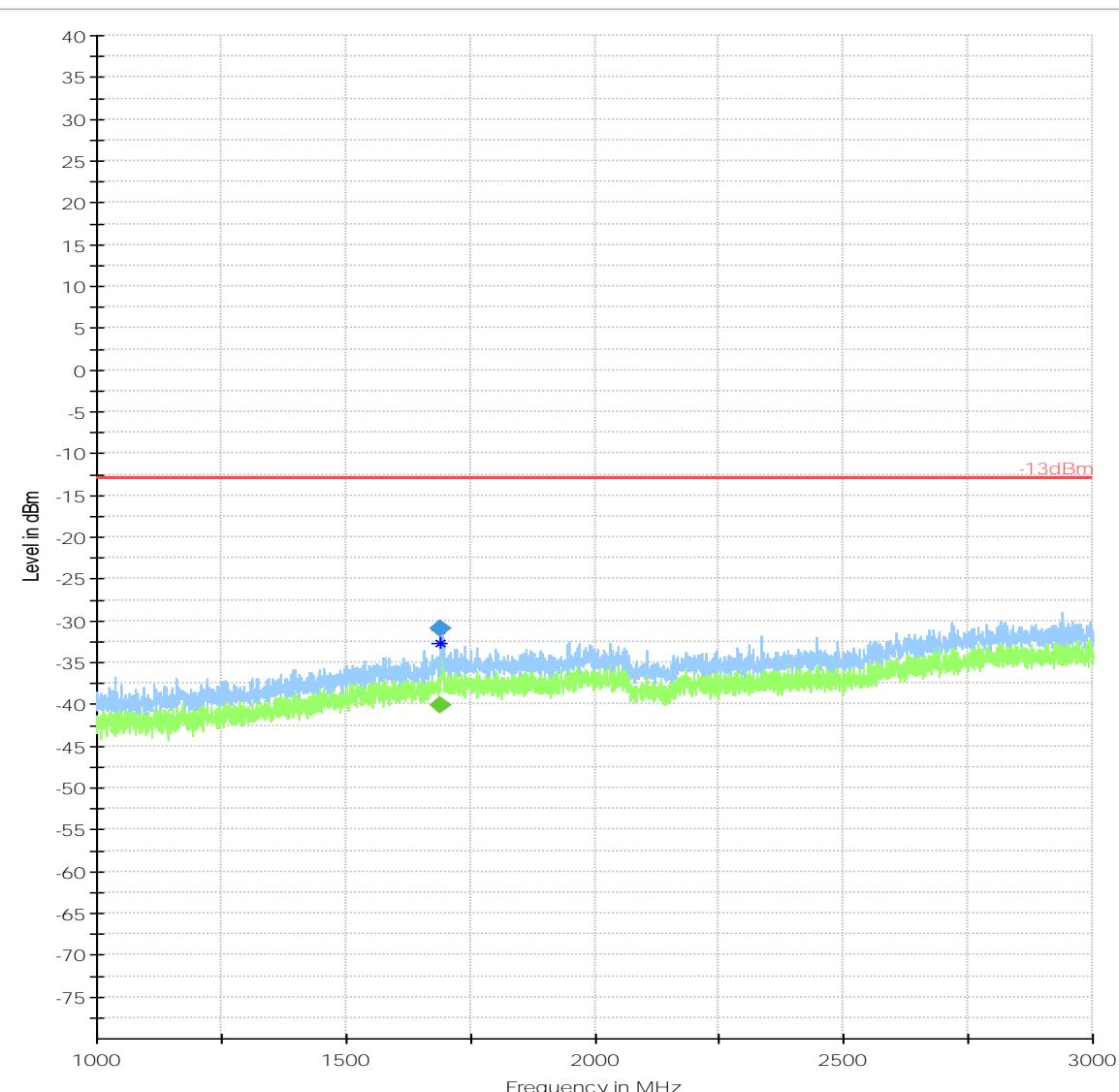


Plot # 41 Radiated Emissions: 1 GHz - 3 GHz

Channel: High

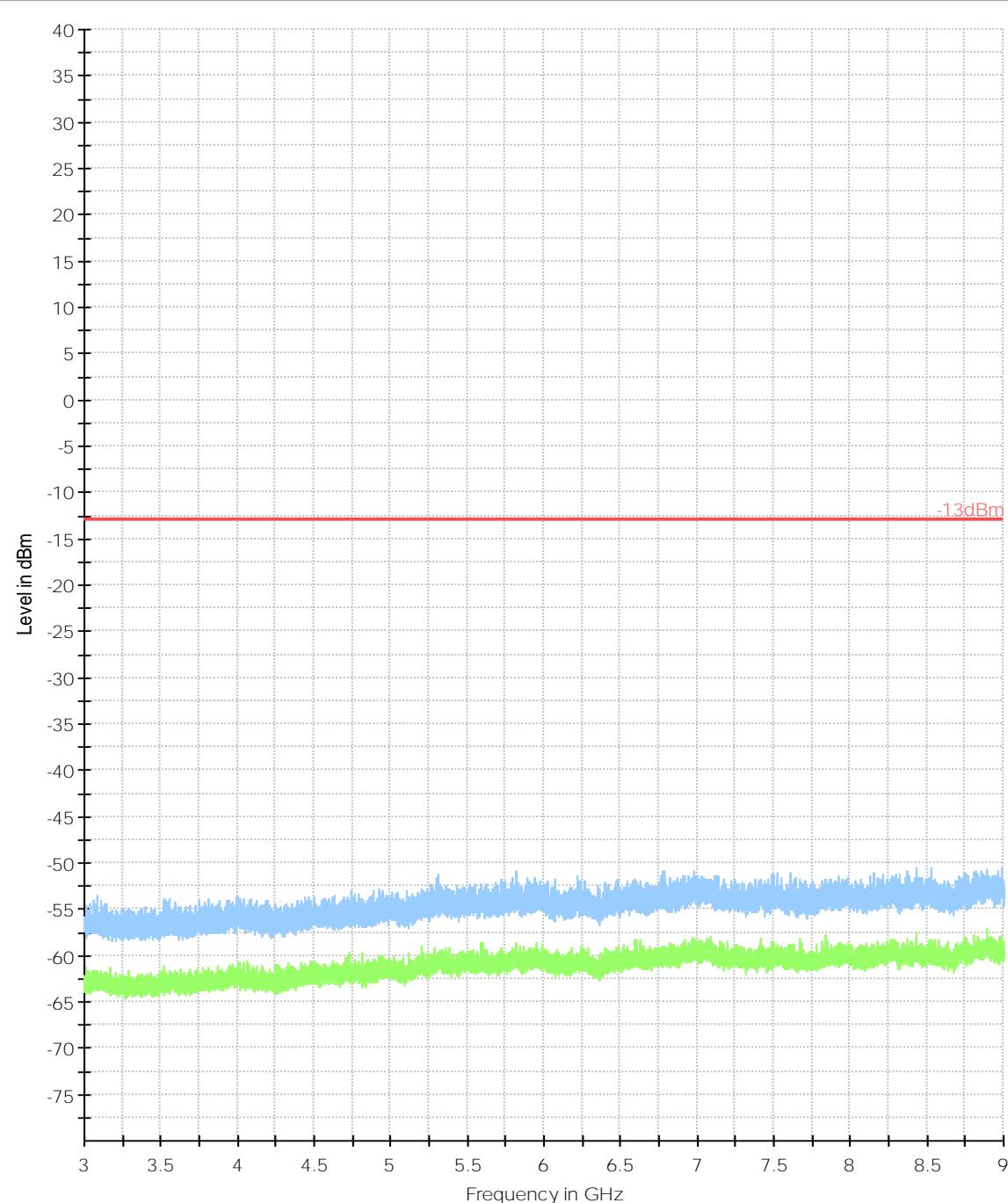
Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1690.495000	---	-40.16	-13.00	27.16	500.0	1000.000	130.0	V	6.0	-87.0
1691.760000	-31.02	---	-13.00	18.02	500.0	1000.000	130.0	V	11.0	-87.0

Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+

Plot # 42 Radiated Emissions: 3 GHz - 9 GHz

Channel: High



Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

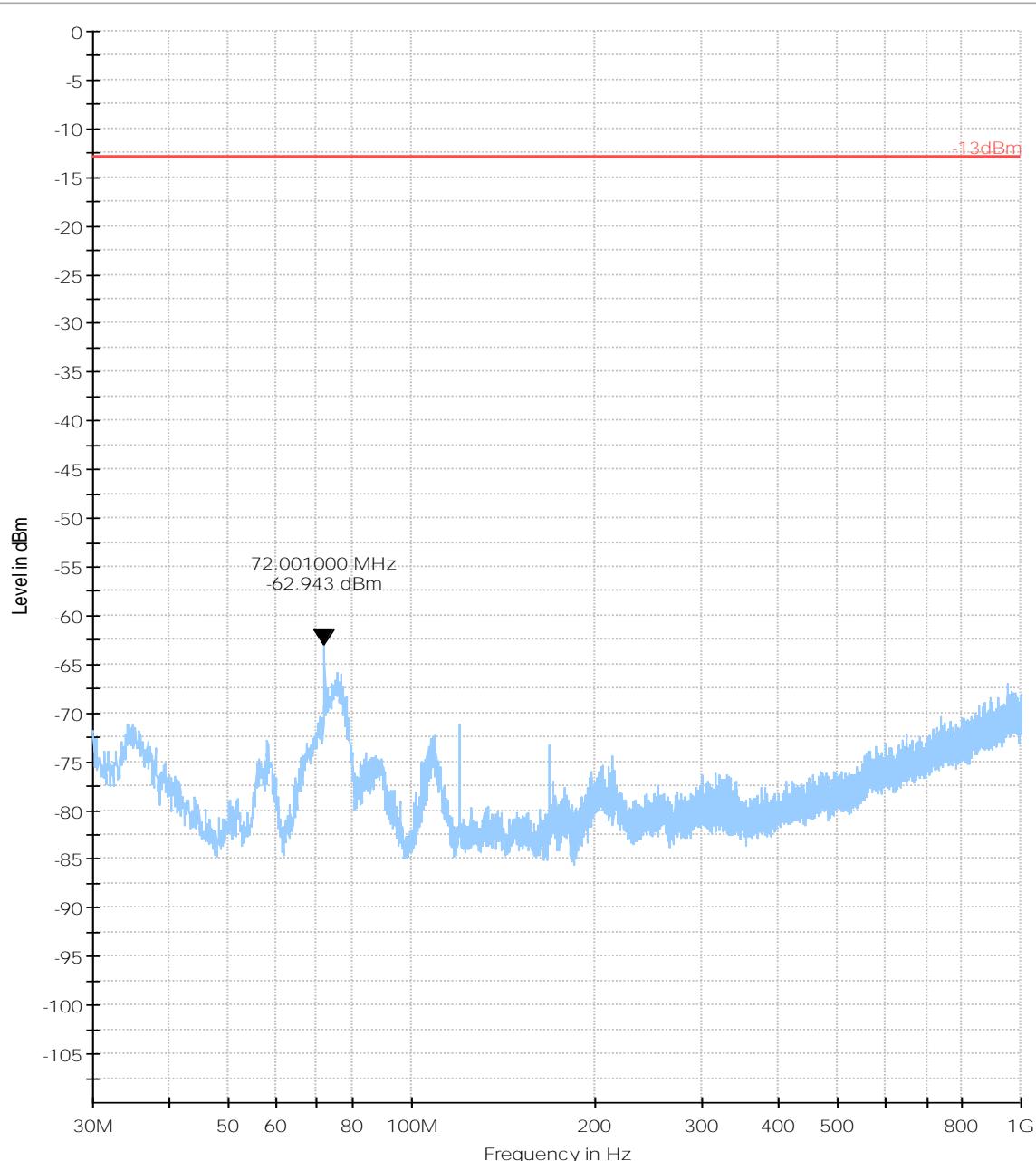
Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

LTE Band 2

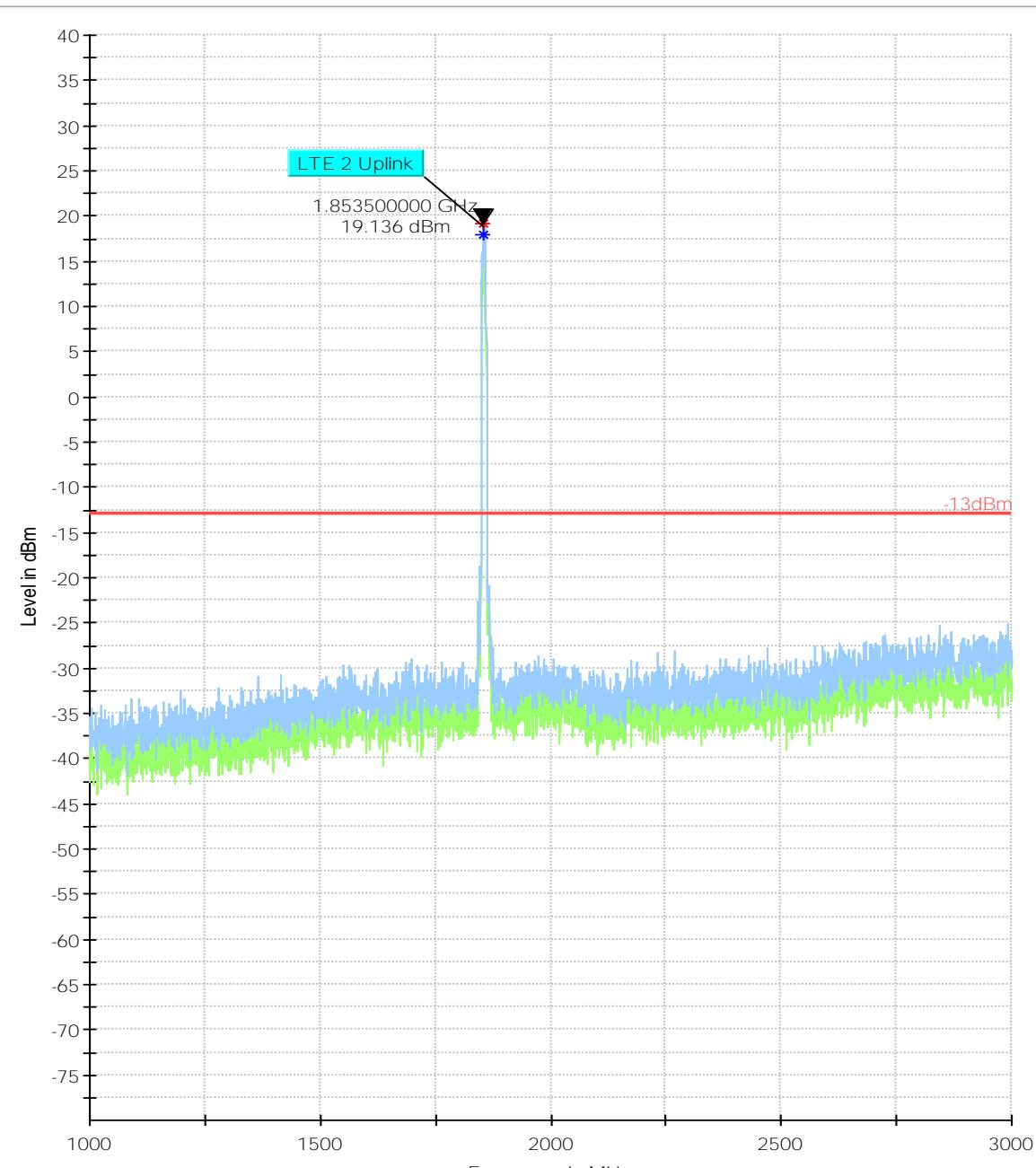
Plot # 43 Radiated Emissions: 30 MHz - 1 GHz

Channel: Low



Plot # 44 Radiated Emissions: 1 GHz - 3 GHz

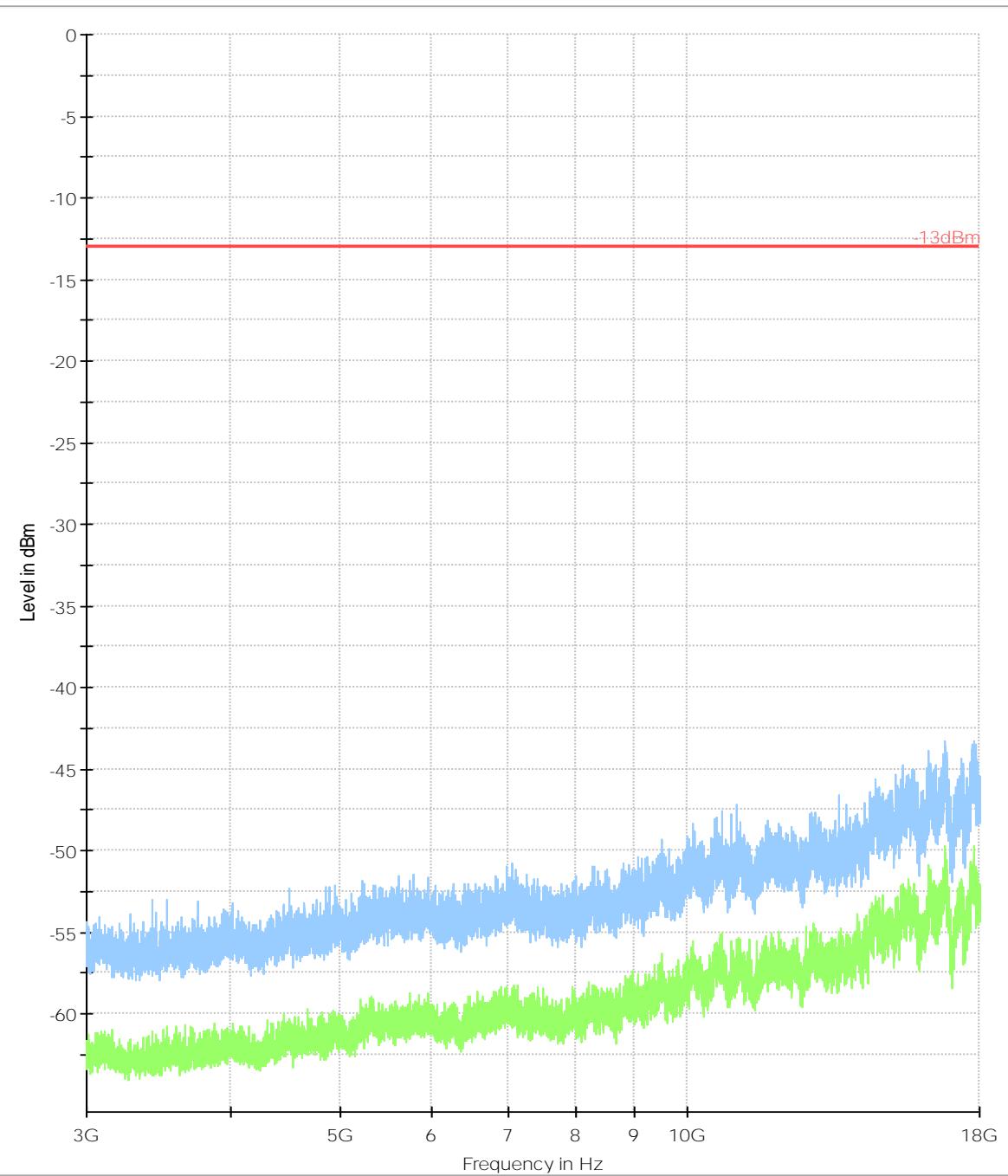
Channel: Low



Preview Result 2-RMS	Preview Result 1-PK+	Critical_Freqs RMS
Critical_Freqs PK+ Final_Result RMS	-13dBm	Final_Result PK+

Plot # 45 Radiated Emissions: 3 GHz - 18 GHz

Channel: Low



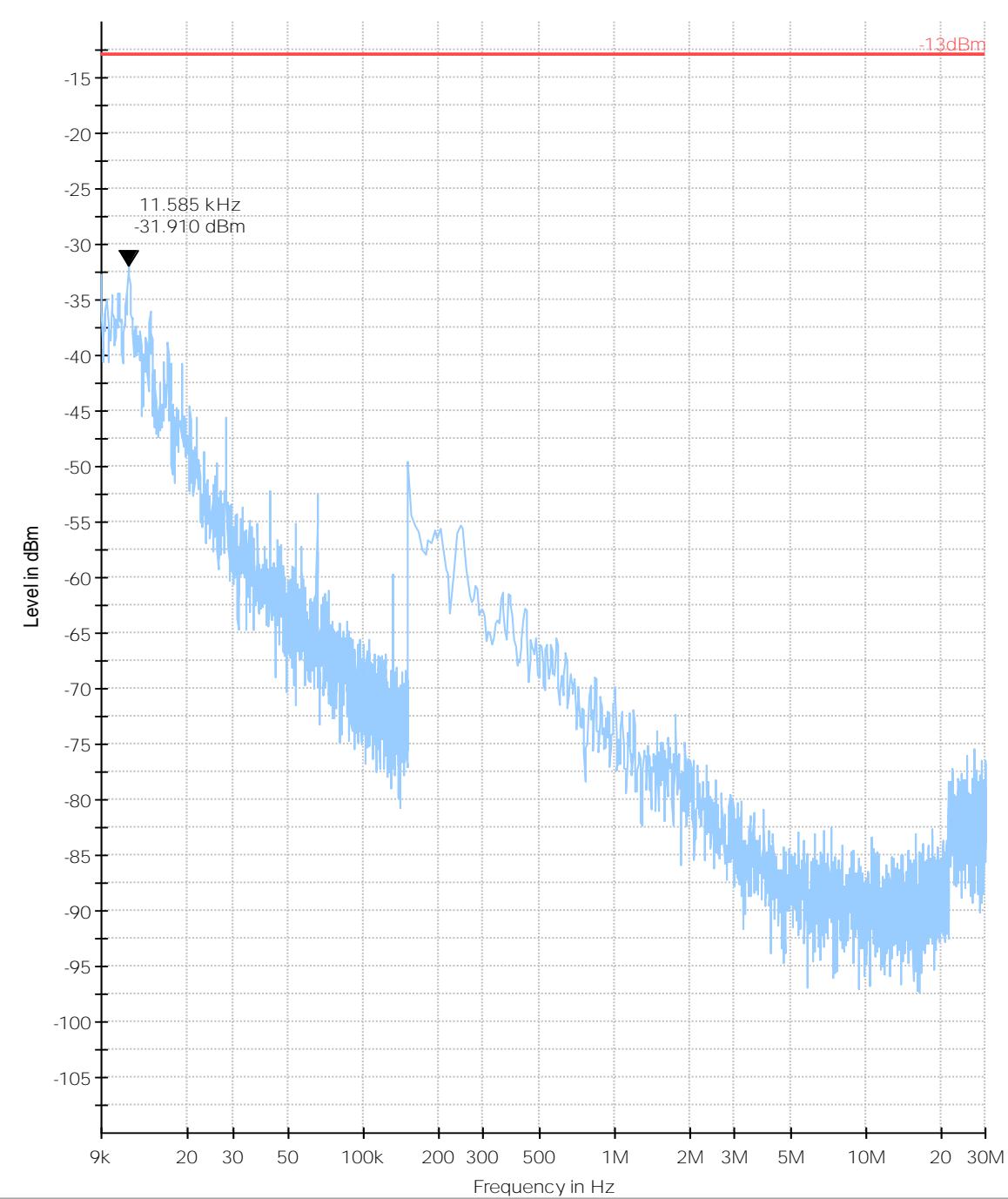
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 46 Radiated Emissions: 9 kHz - 30 MHz

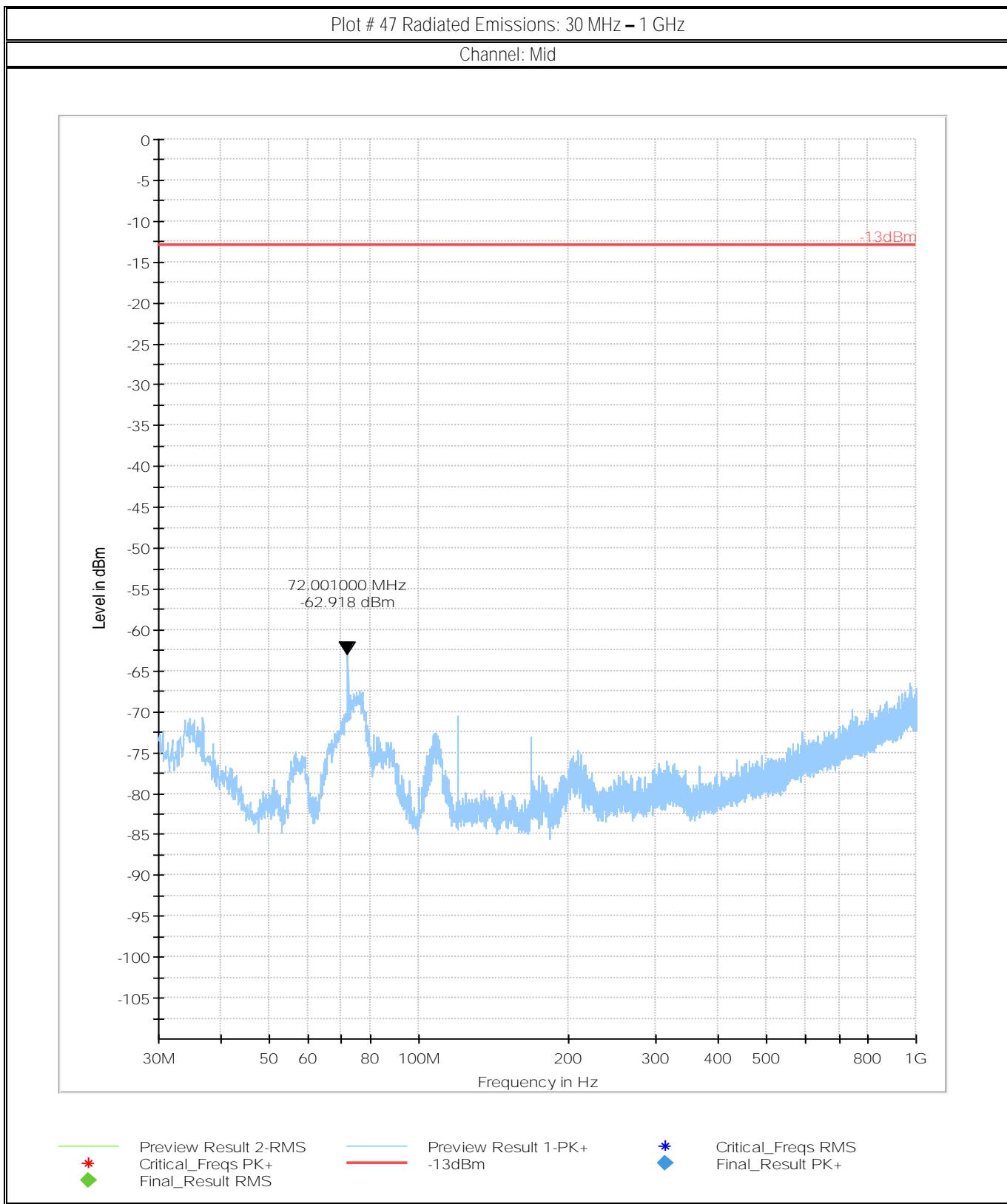
Channel: Mid



* Preview Result 2-RMS
◆ Critical_Freqs PK+
◆ Final_Result RMS

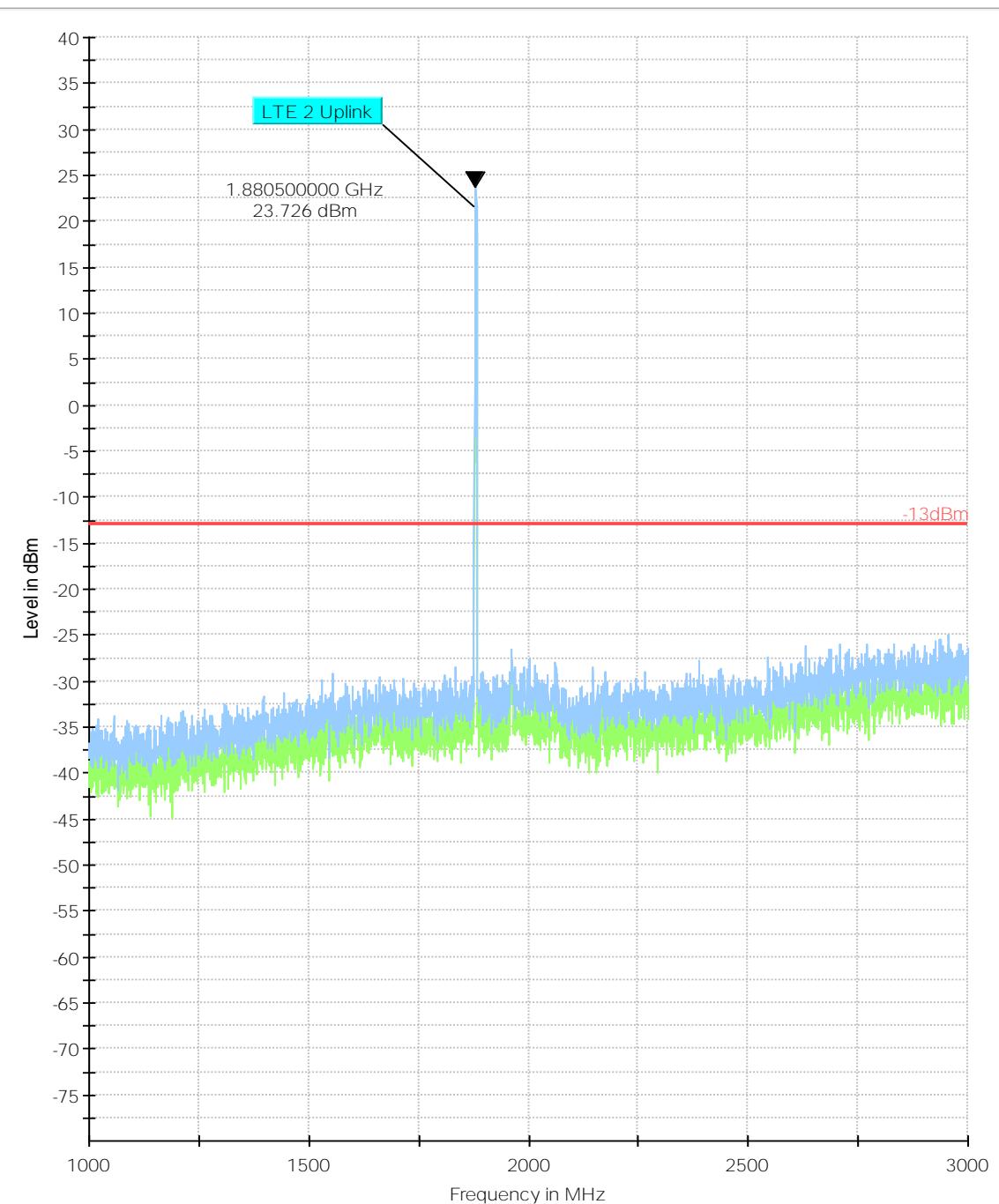
— Preview Result 1-PK+
— -13dBm

* ◆ Critical_Freqs RMS
Final_Result PK+



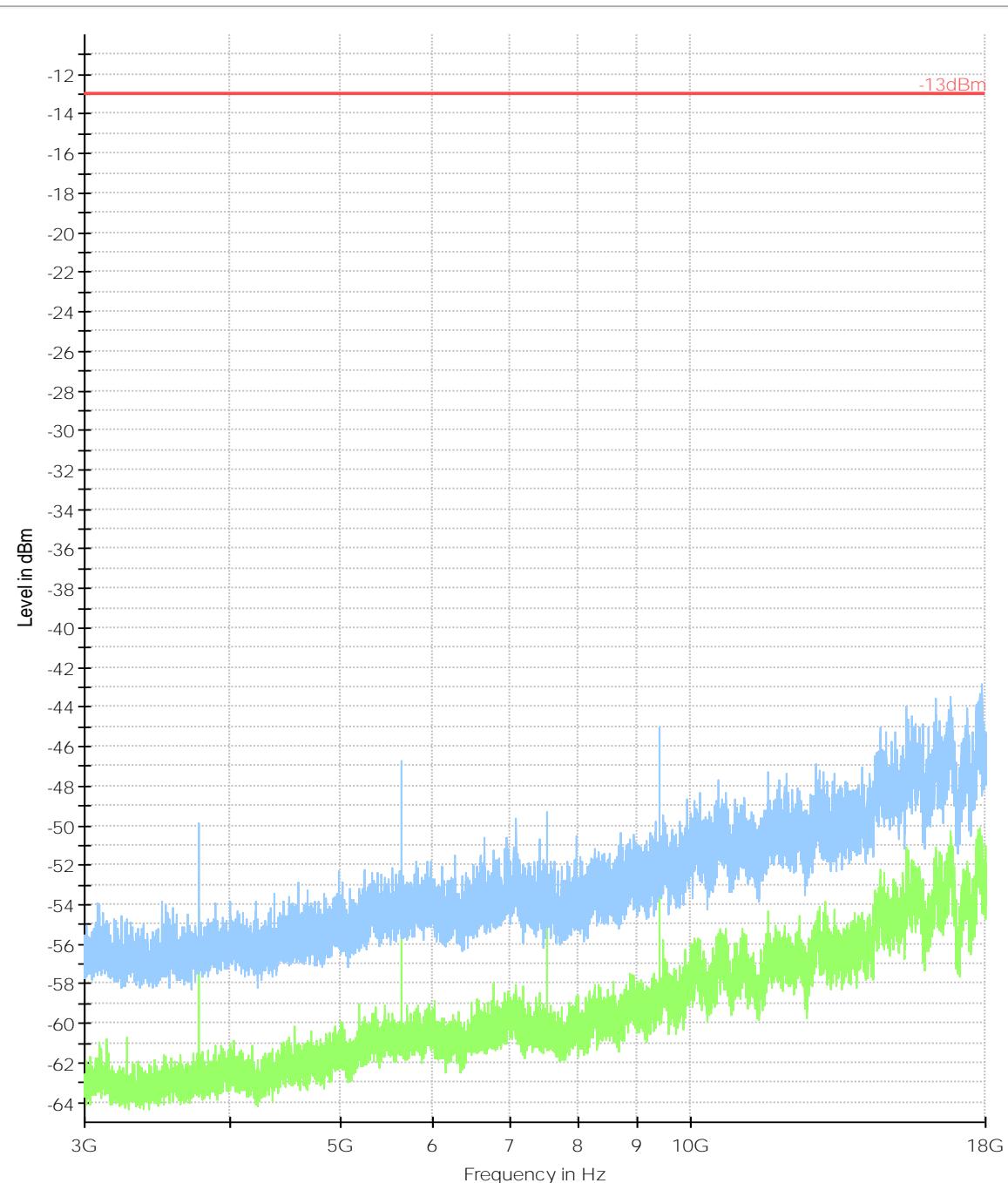
Plot # 48 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid



Plot # 49 Radiated Emissions: 3 GHz – 18GHz

Channel: Mid



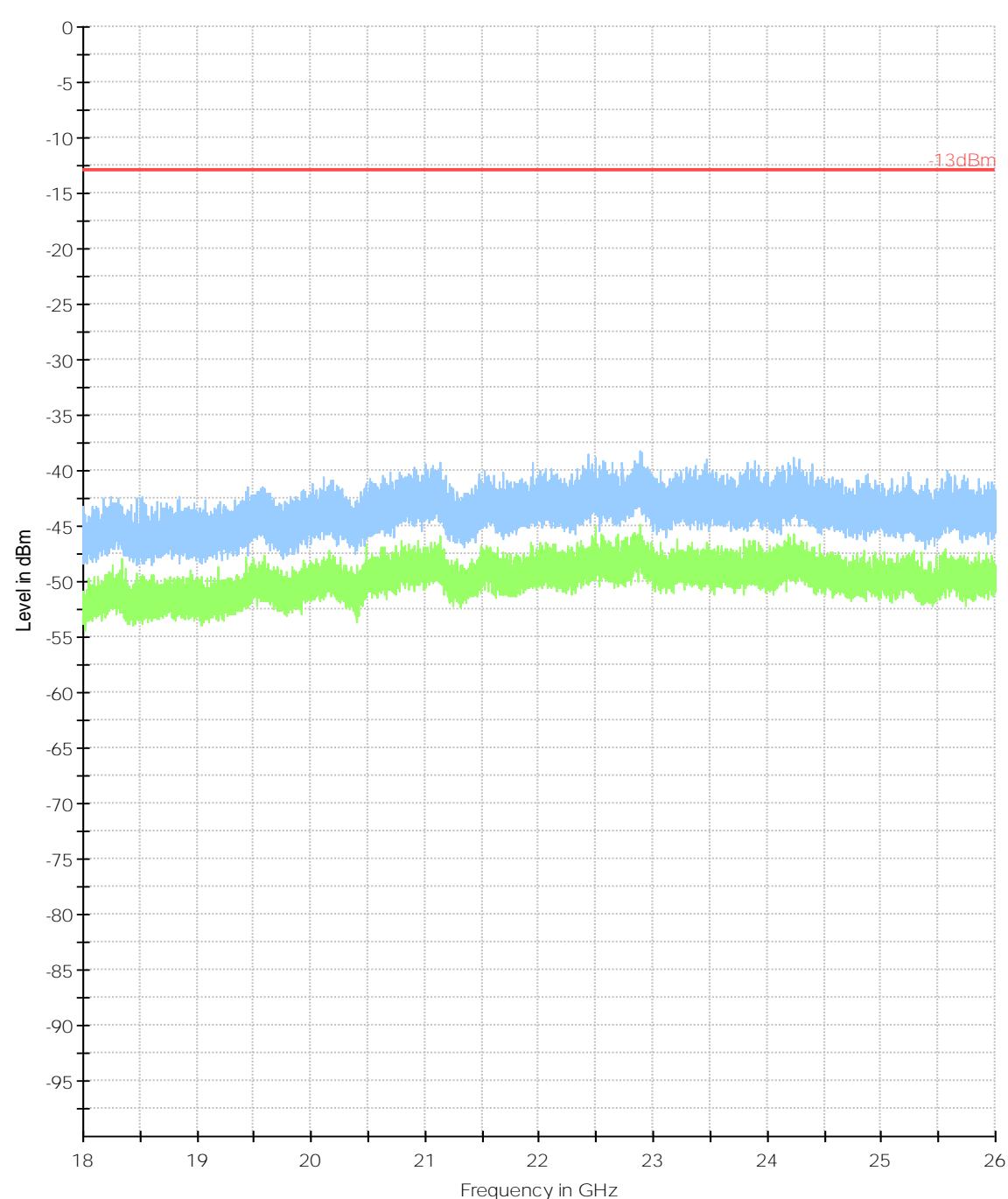
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

— Preview Result 1-PK+
-13dBm
✖ MaxPeak-PK+ (Single)

★ Critical_Freqs RMS
◆ Final_Result PK+
+ RMS (Single)

Plot # 50 Radiated Emissions: 18 GHz – 26GHz

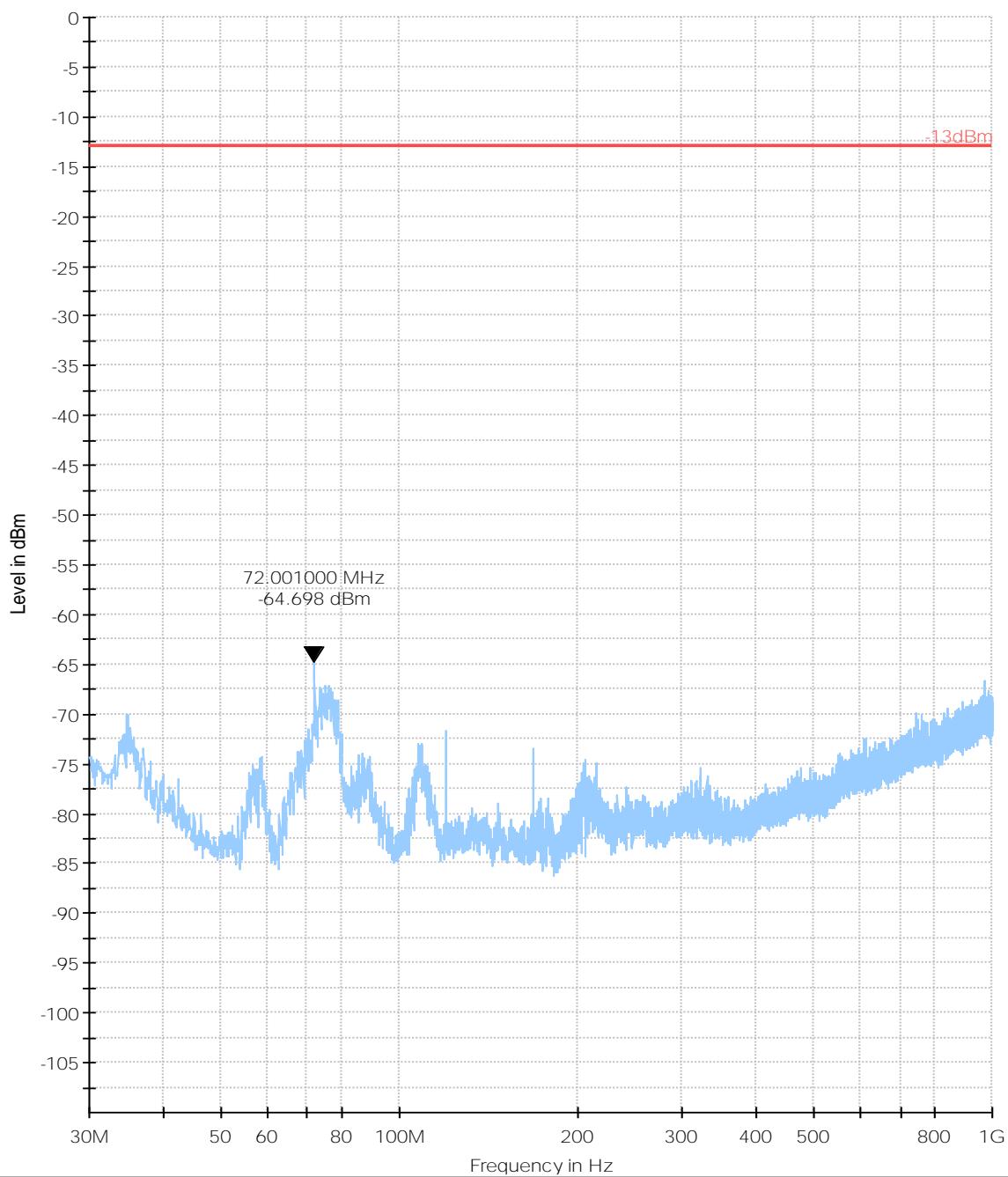
Channel: Mid



* Preview Result 2-RMS — Preview Result 1-PK+ * Critical_Freqs RMS
Critical_Freqs PK+ -13dBm ♦ Final_Result PK+

Plot # 51 Radiated Emissions: 30 MHz - 1 GHz

Channel: High



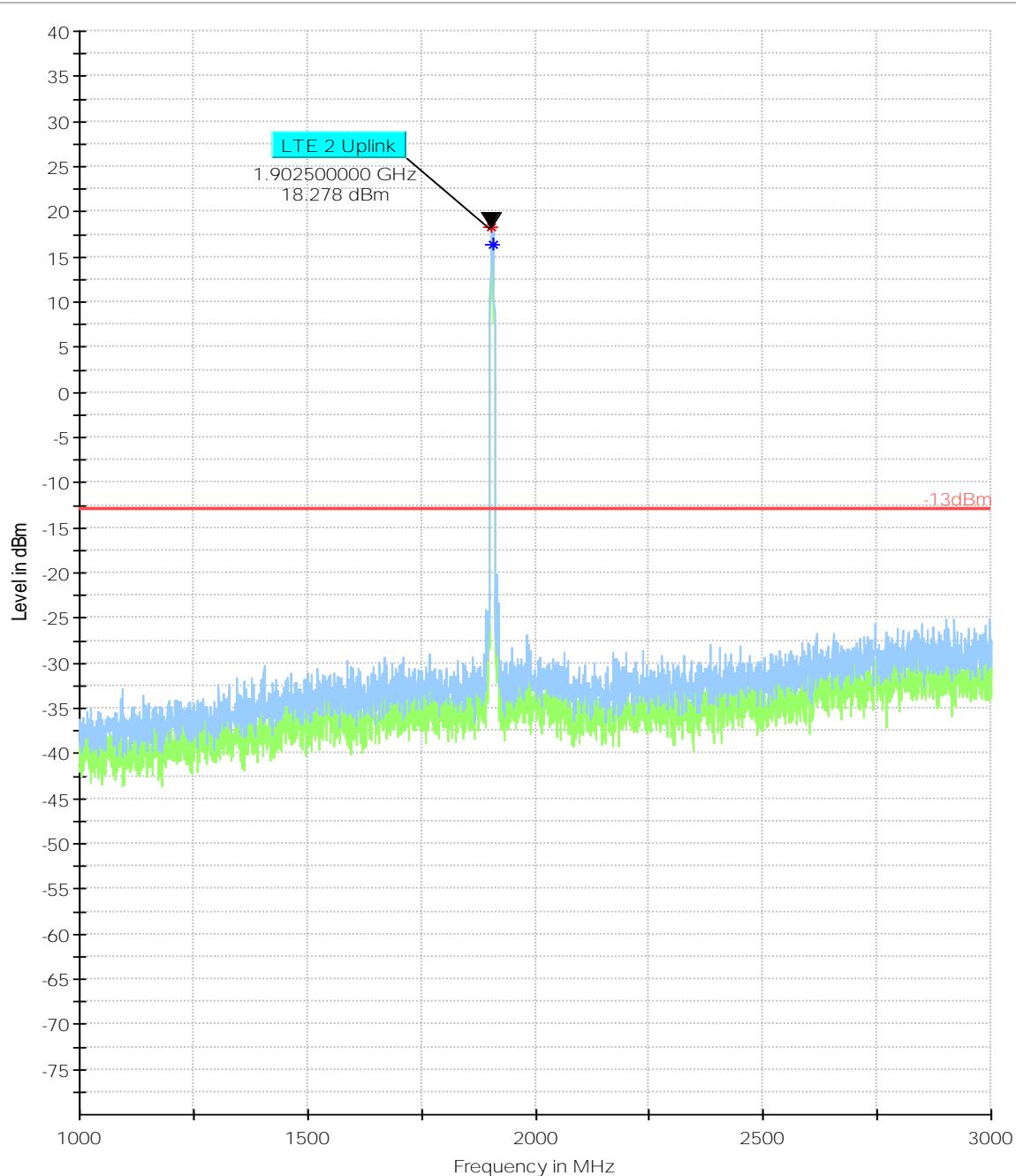
Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

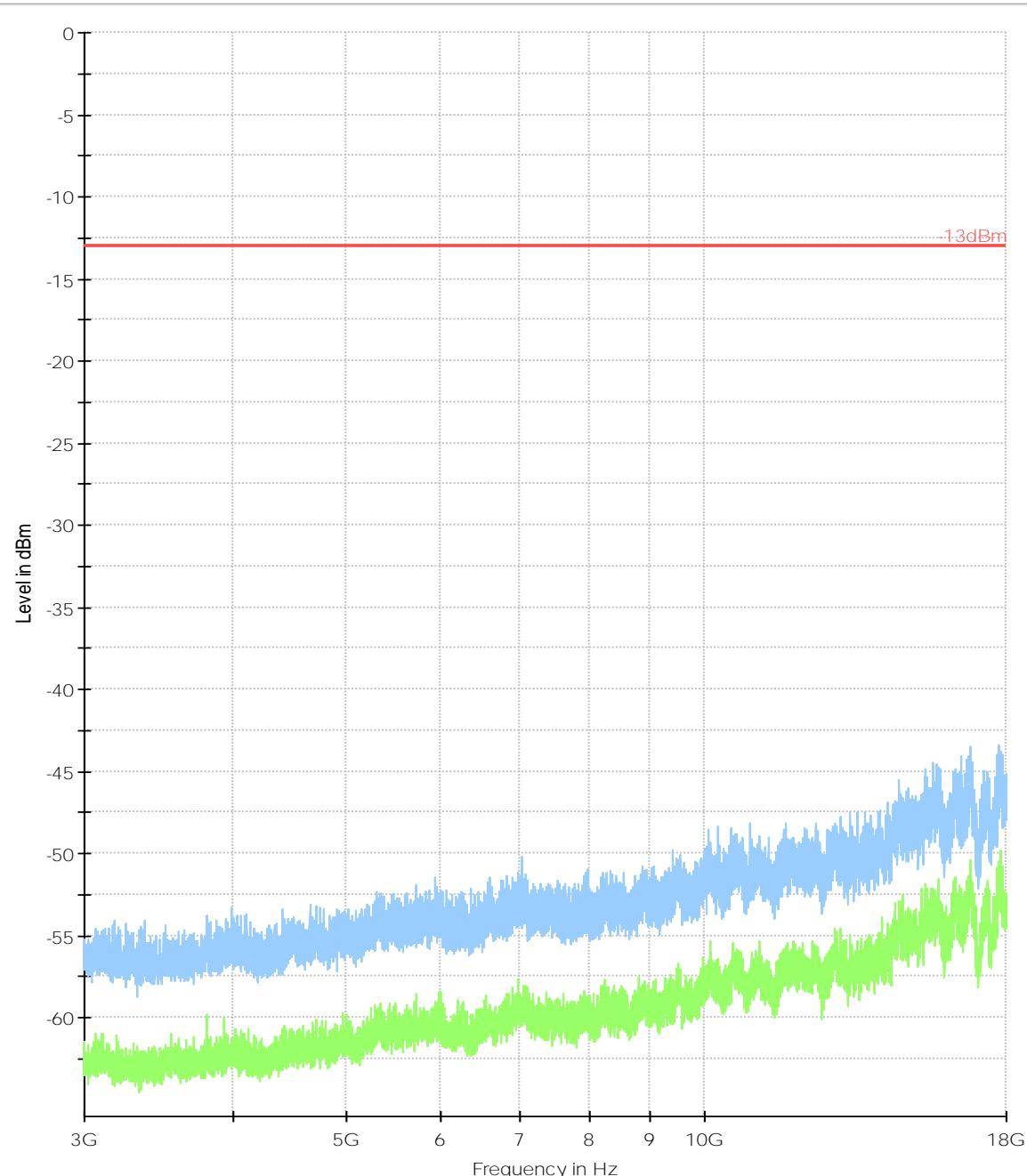
Plot # 52 Radiated Emissions: 1 GHz - 3 GHz

Channel: High



Plot # 53 Radiated Emissions: 3 GHz - 18 GHz

Channel: High

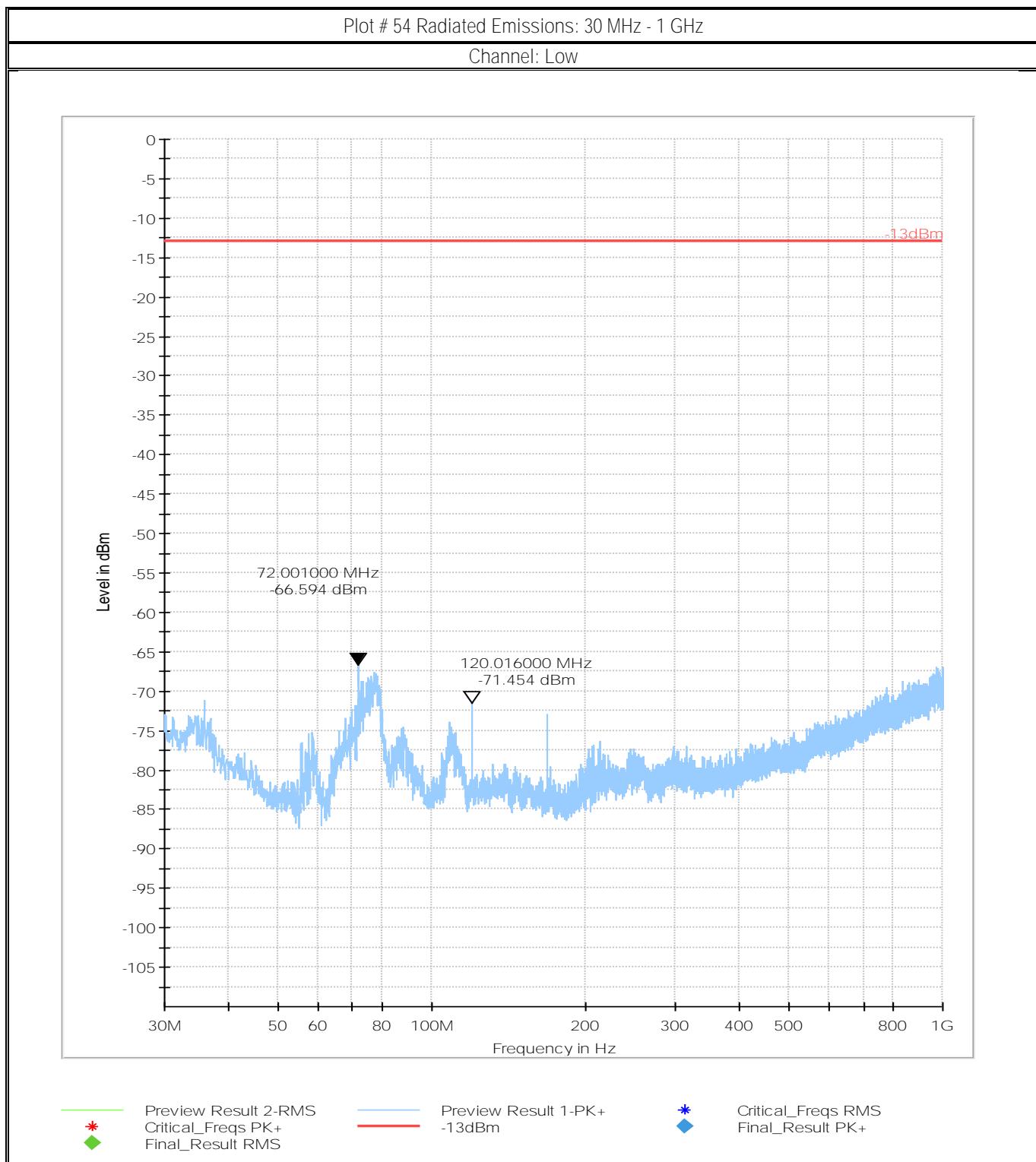


* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

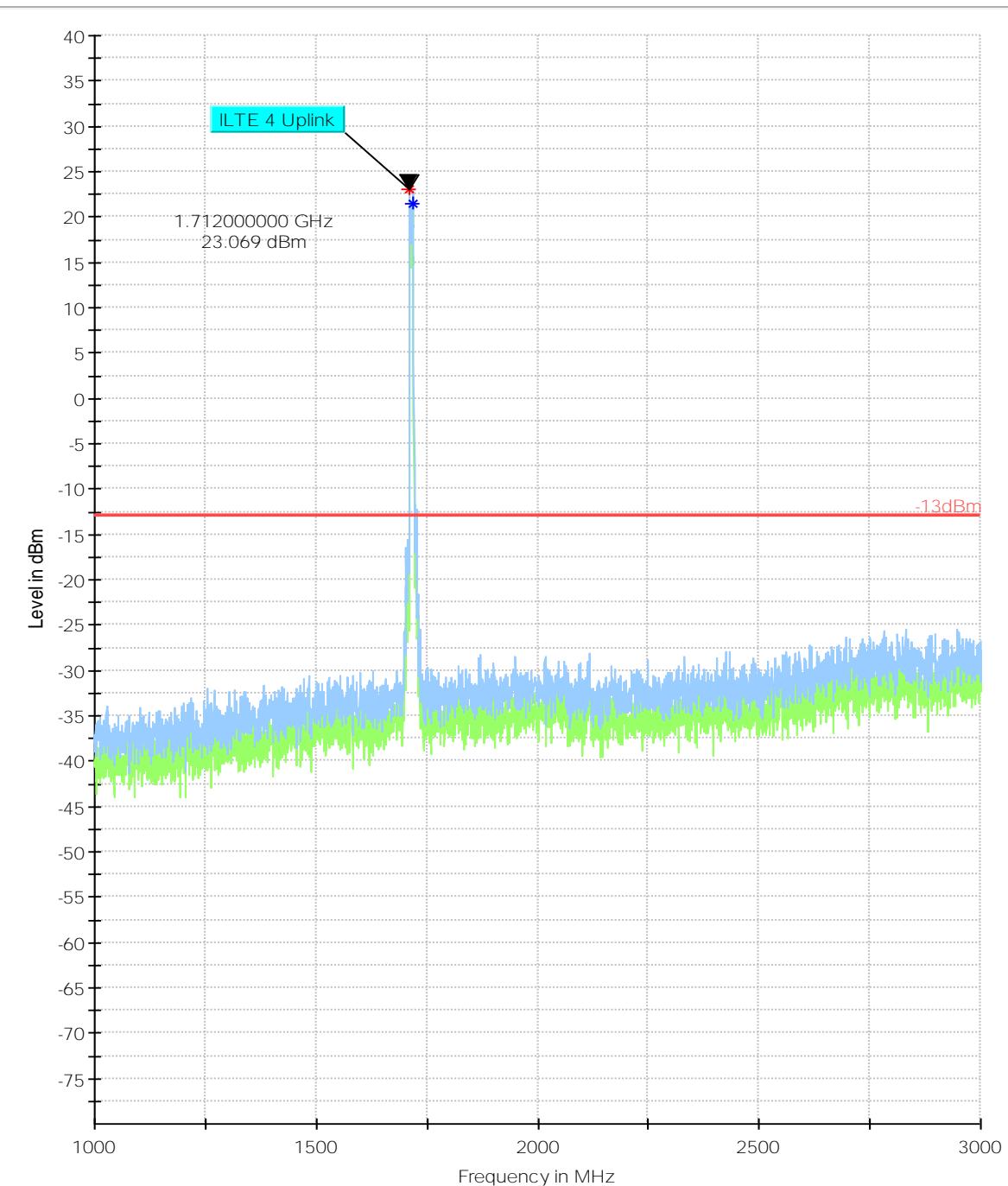
* Critical_Freqs RMS
Final_Result PK+

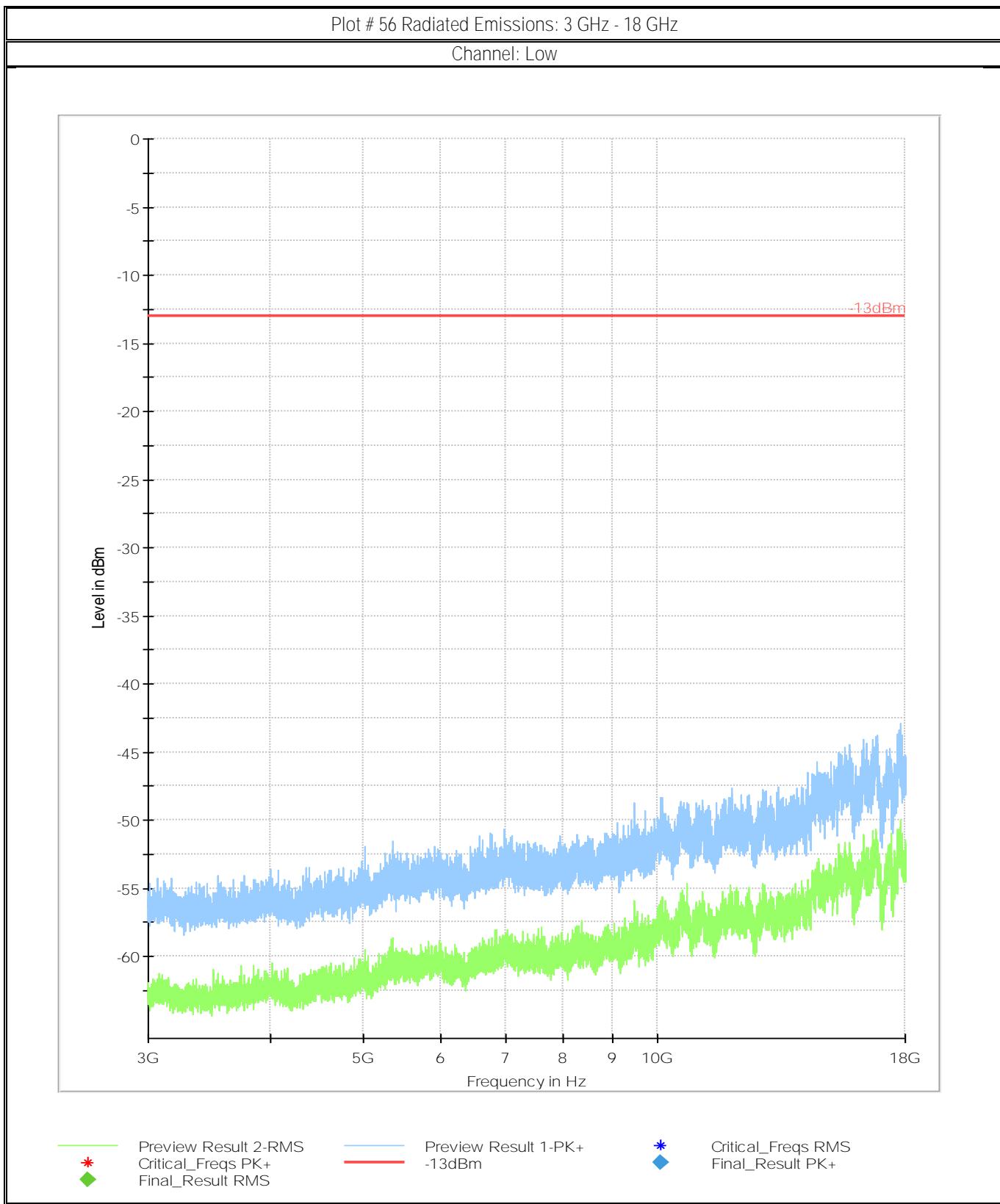
LTE Band 4

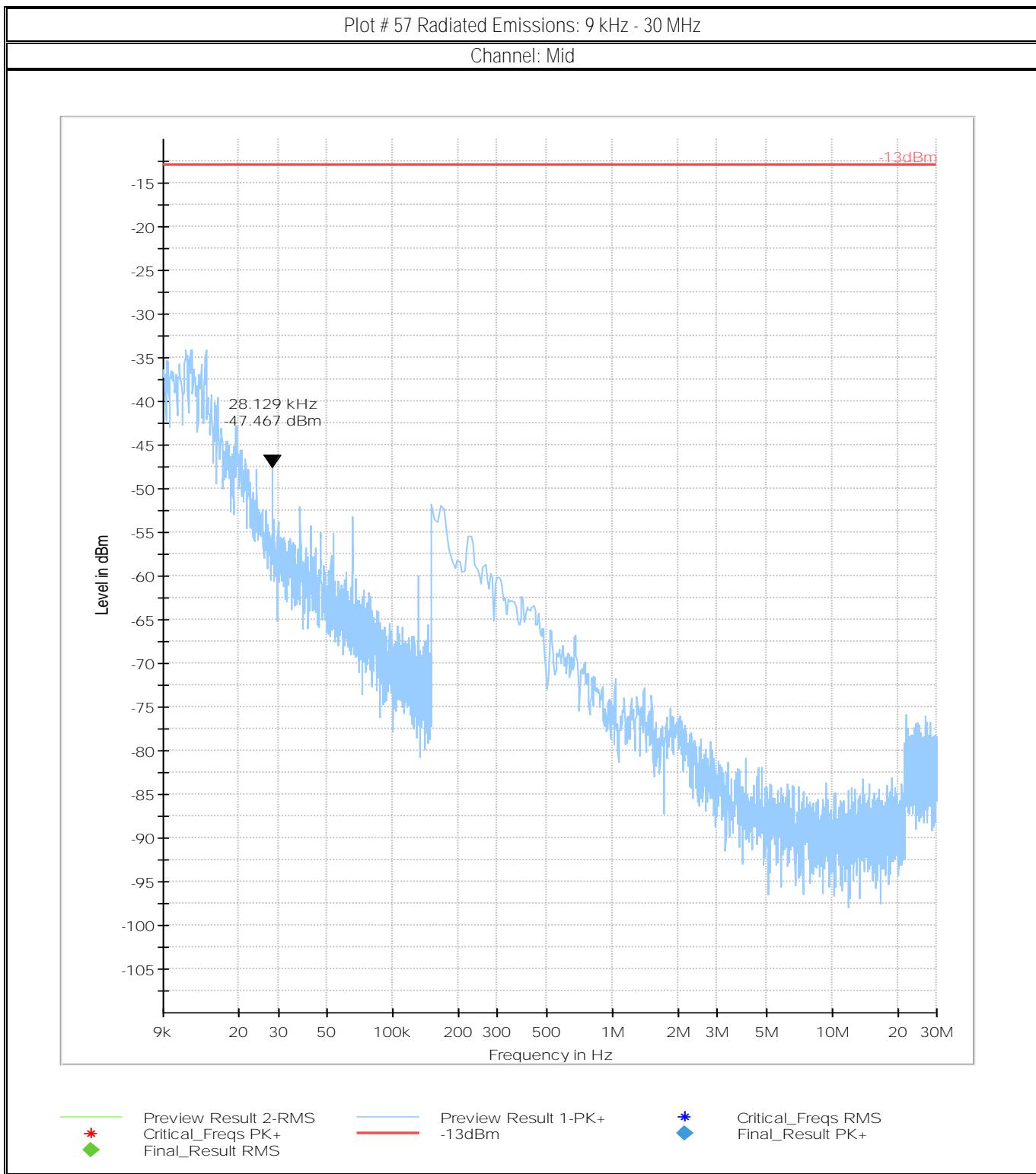


Plot # 55 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low

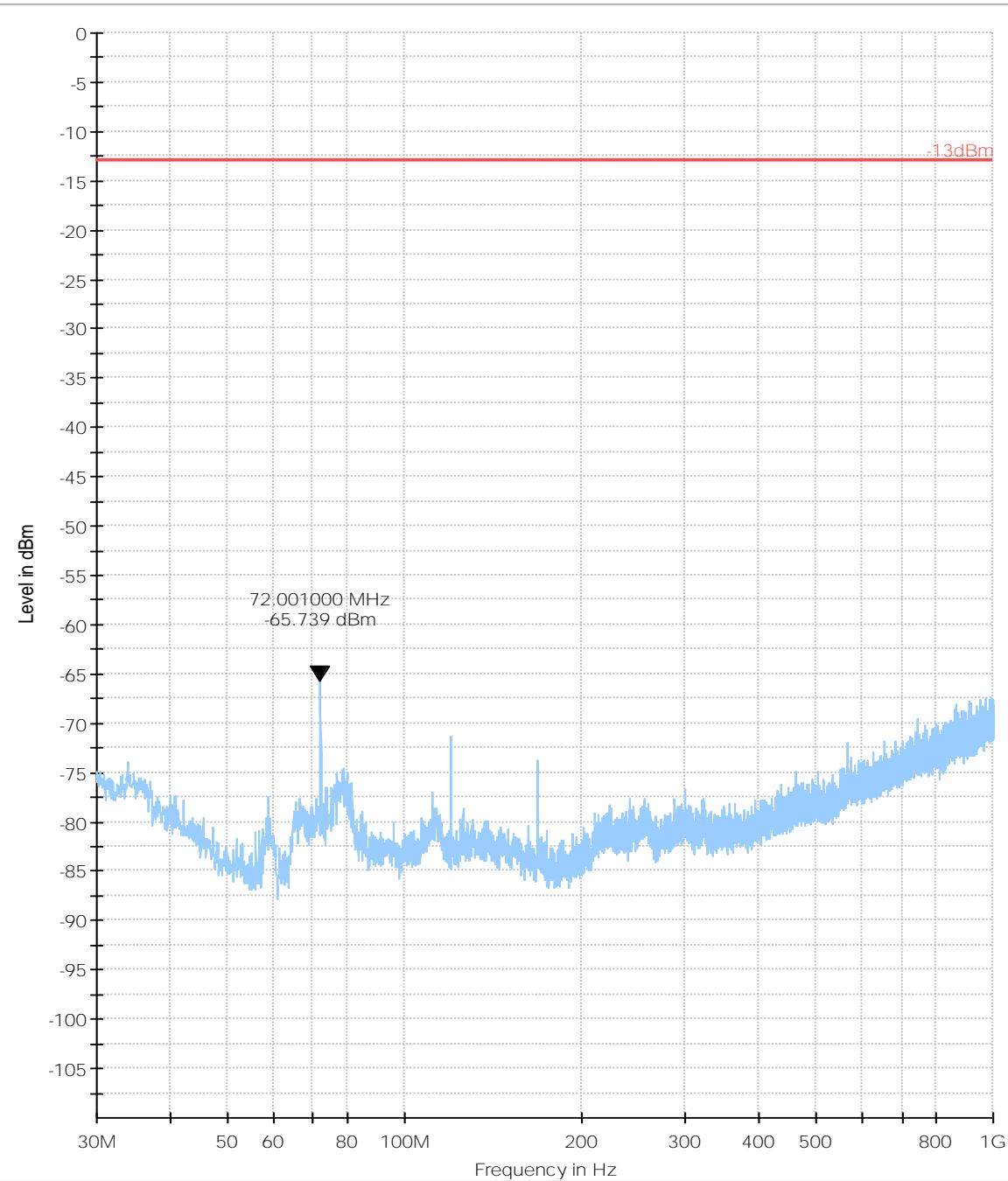
Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+





Plot # 58 Radiated Emissions: 30 MHz - 1 GHz

Channel: Mid



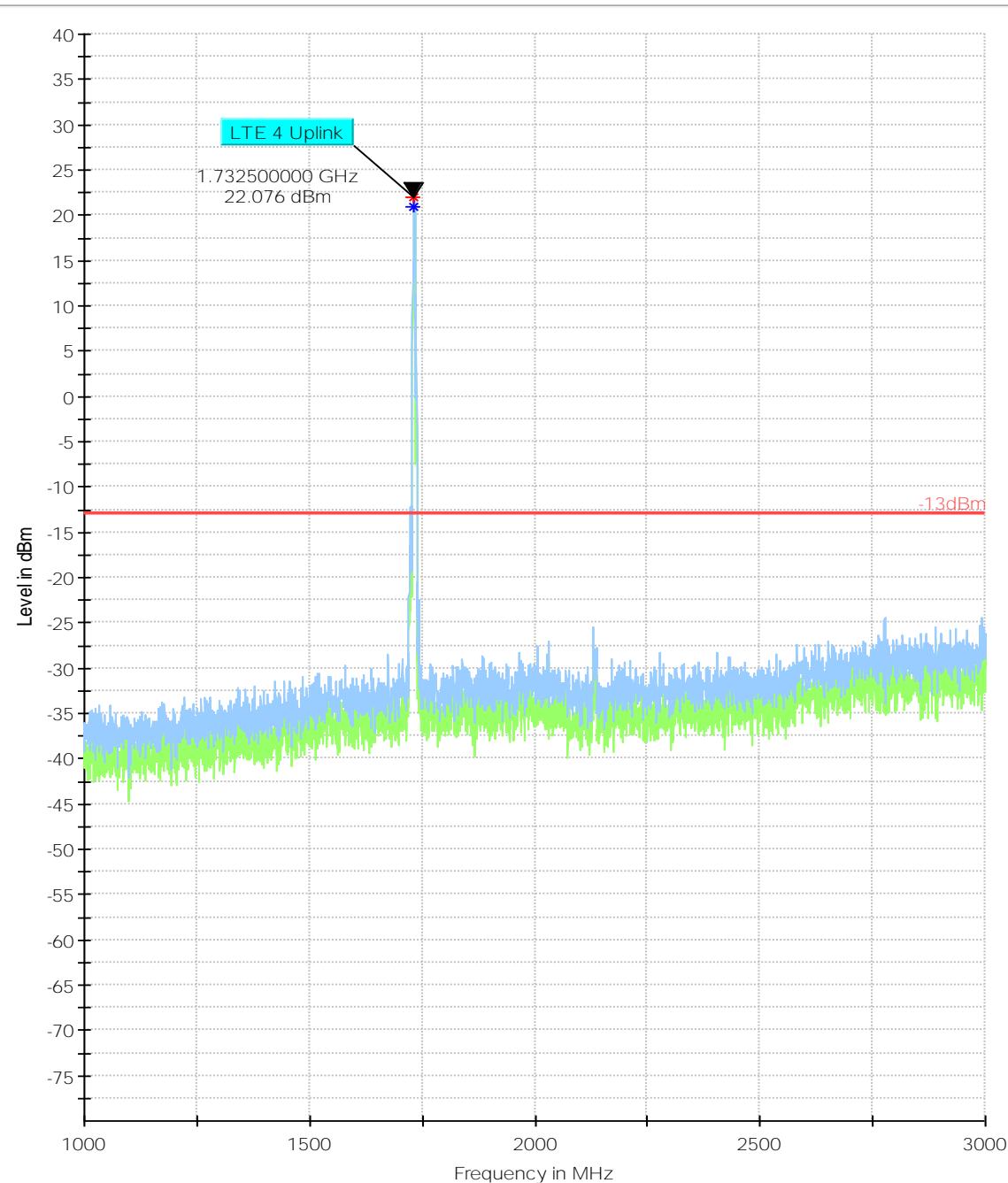
* Preview Result 2-RMS
◆ Critical_Freqs PK+
◆ Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 59 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid



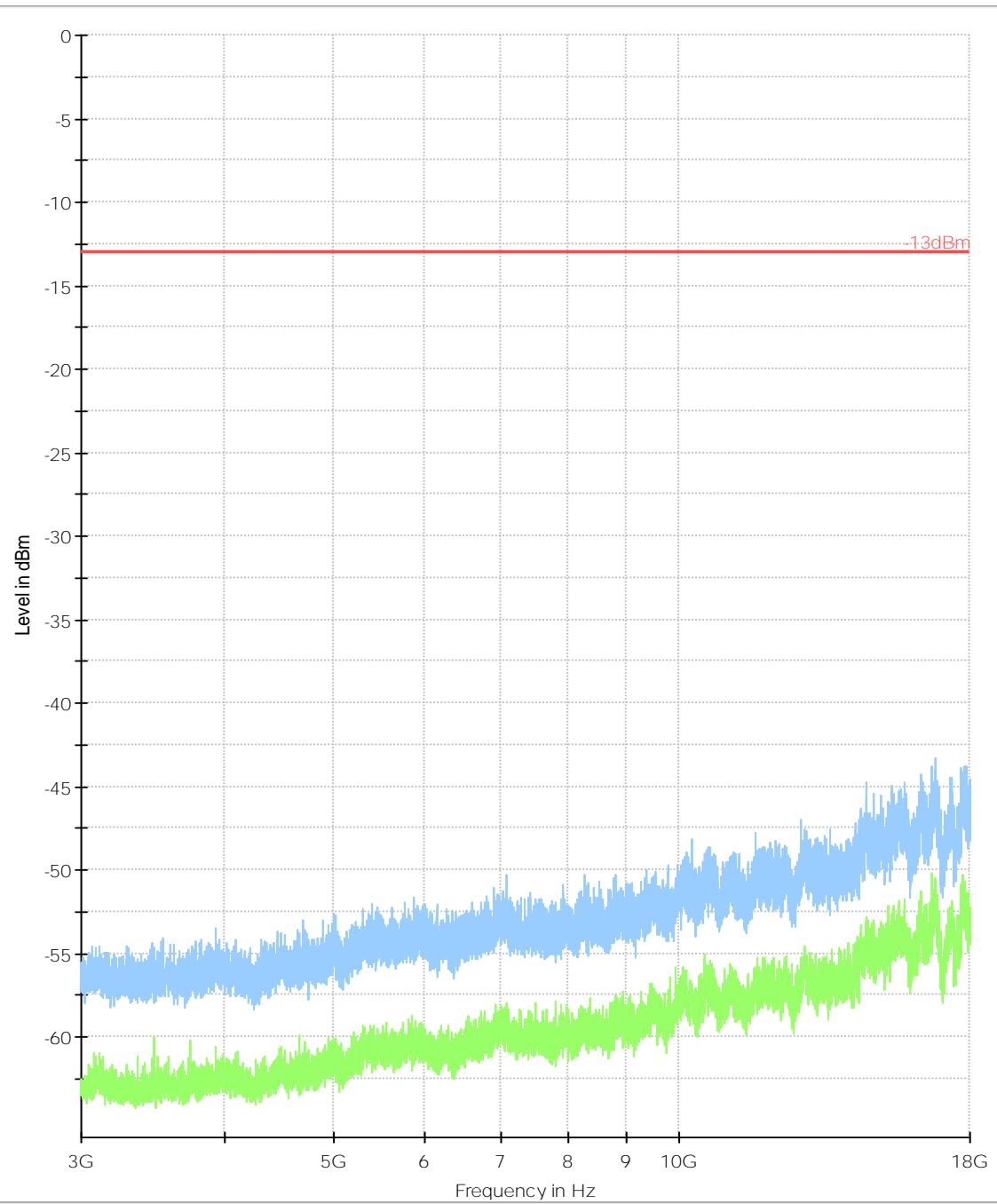
* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

— Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
◆ Final_Result PK+

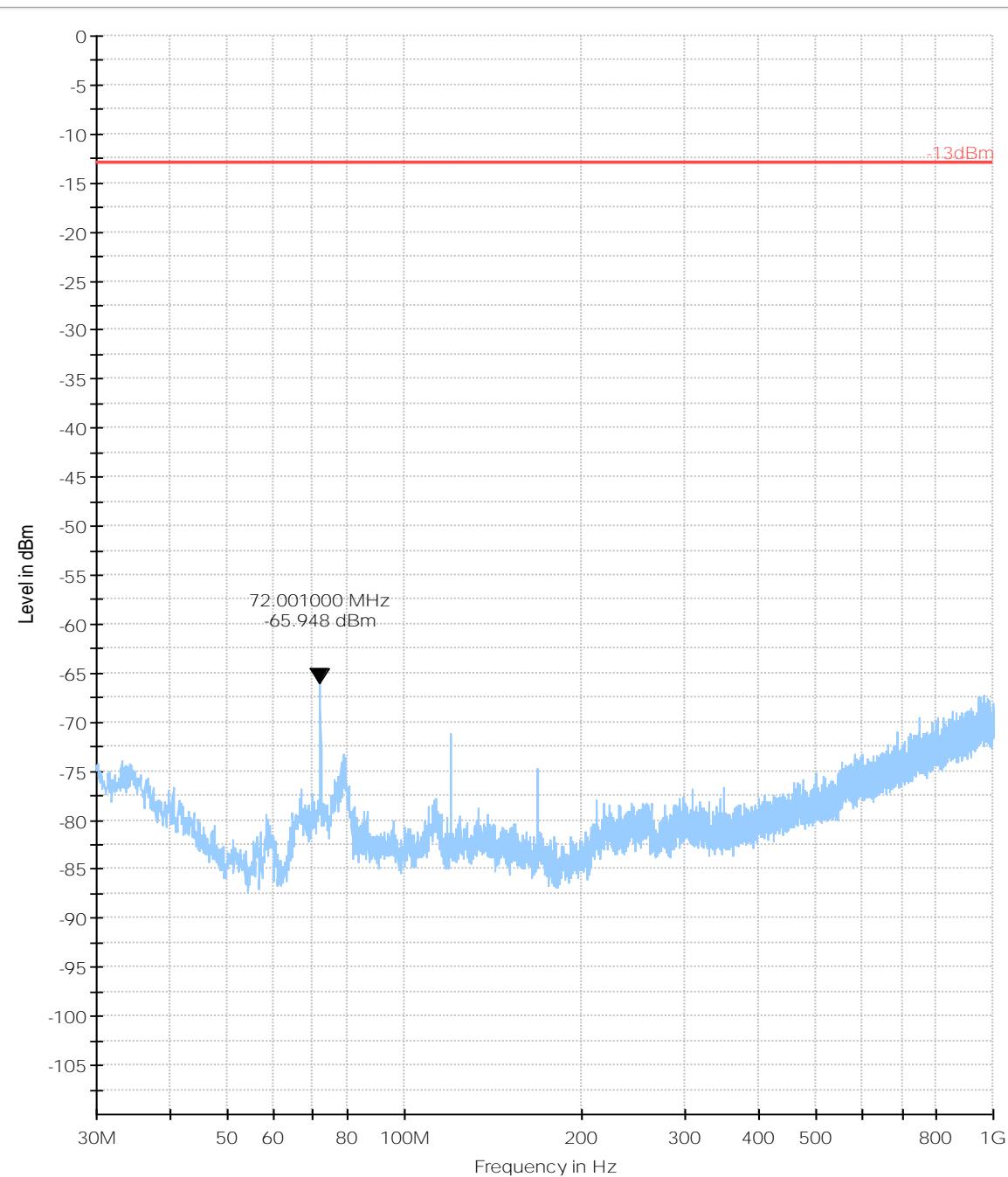
Plot # 60 Radiated Emissions: 3 GHz – 18GHz

Channel: Mid

Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+

Plot # 61 Radiated Emissions: 30 MHz - 1 GHz

Channel: High



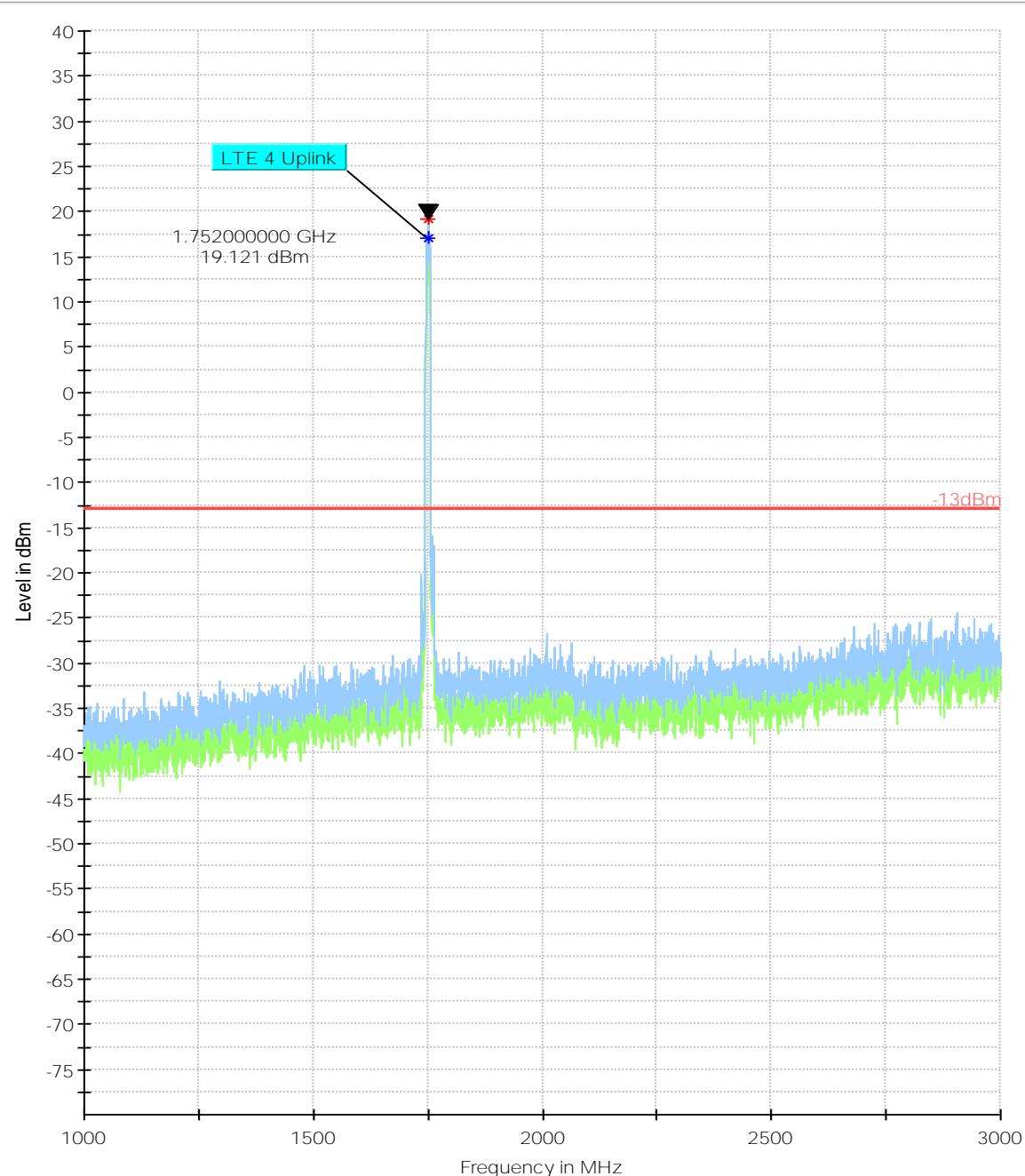
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 62 Radiated Emissions: 1 GHz - 3 GHz

Channel: High



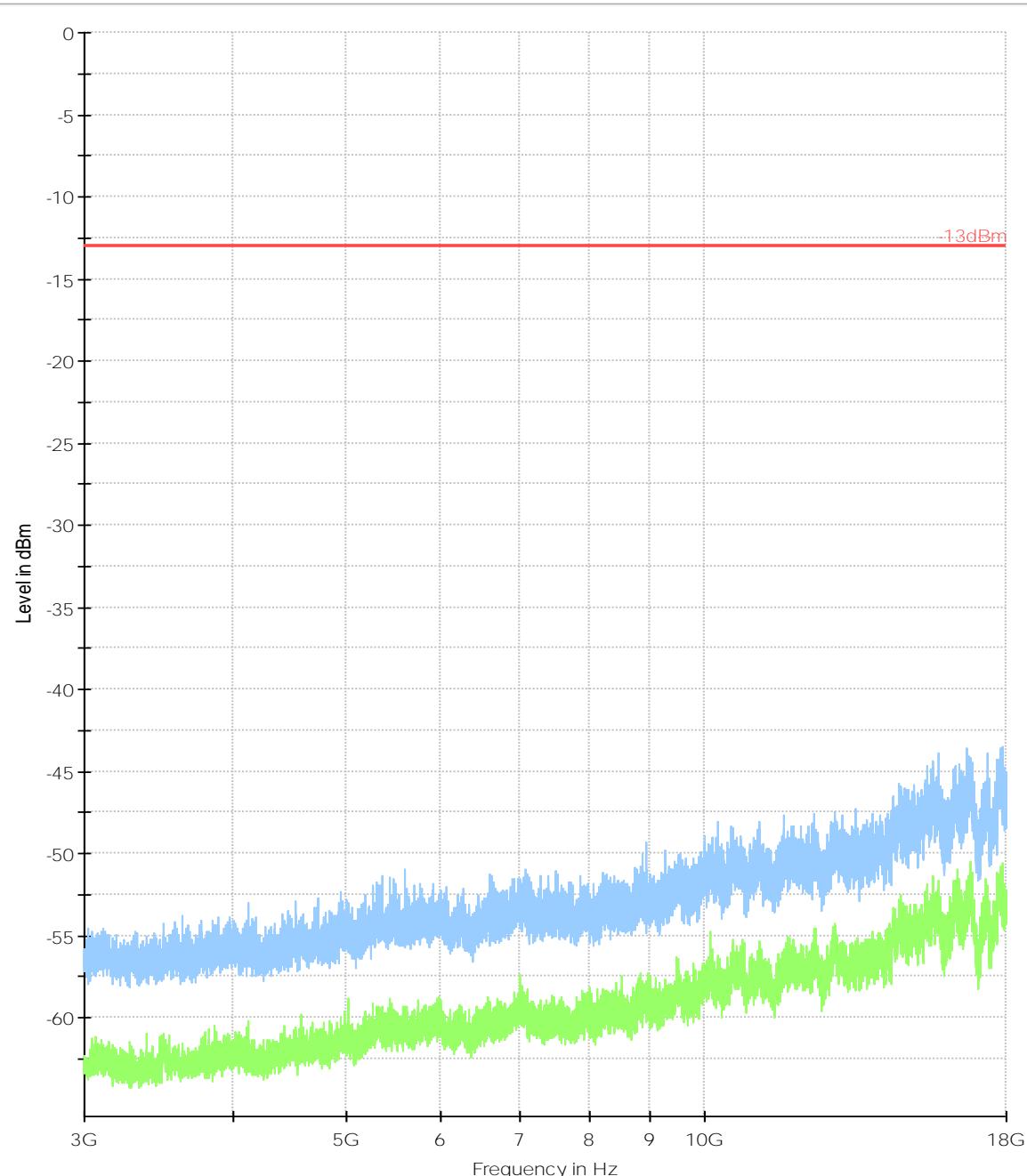
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 63 Radiated Emissions: 3 GHz - 18 GHz

Channel: High



* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

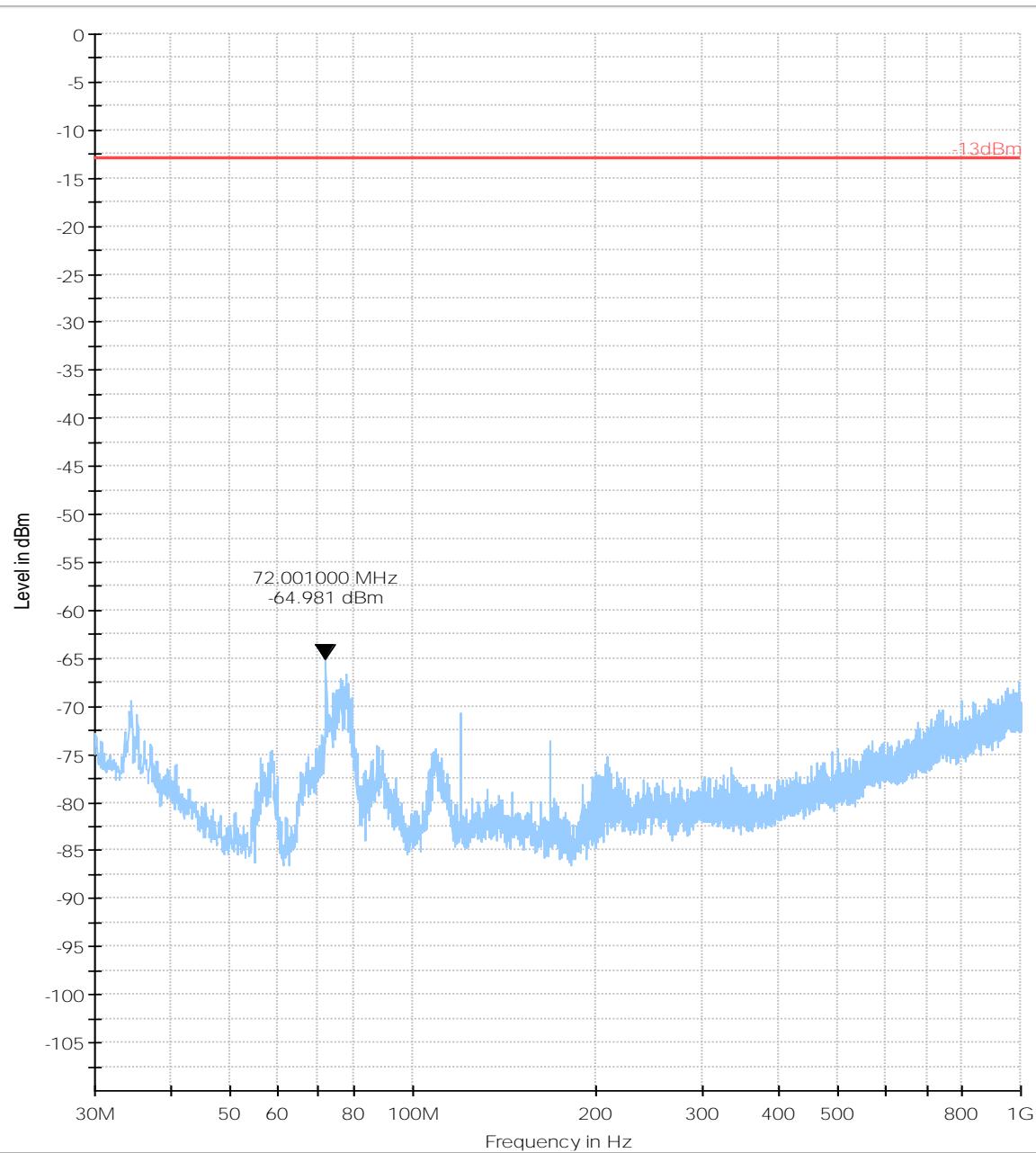
Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

WCDMA IV

Plot # 64 Radiated Emissions: 30 MHz - 1 GHz

Channel: Low



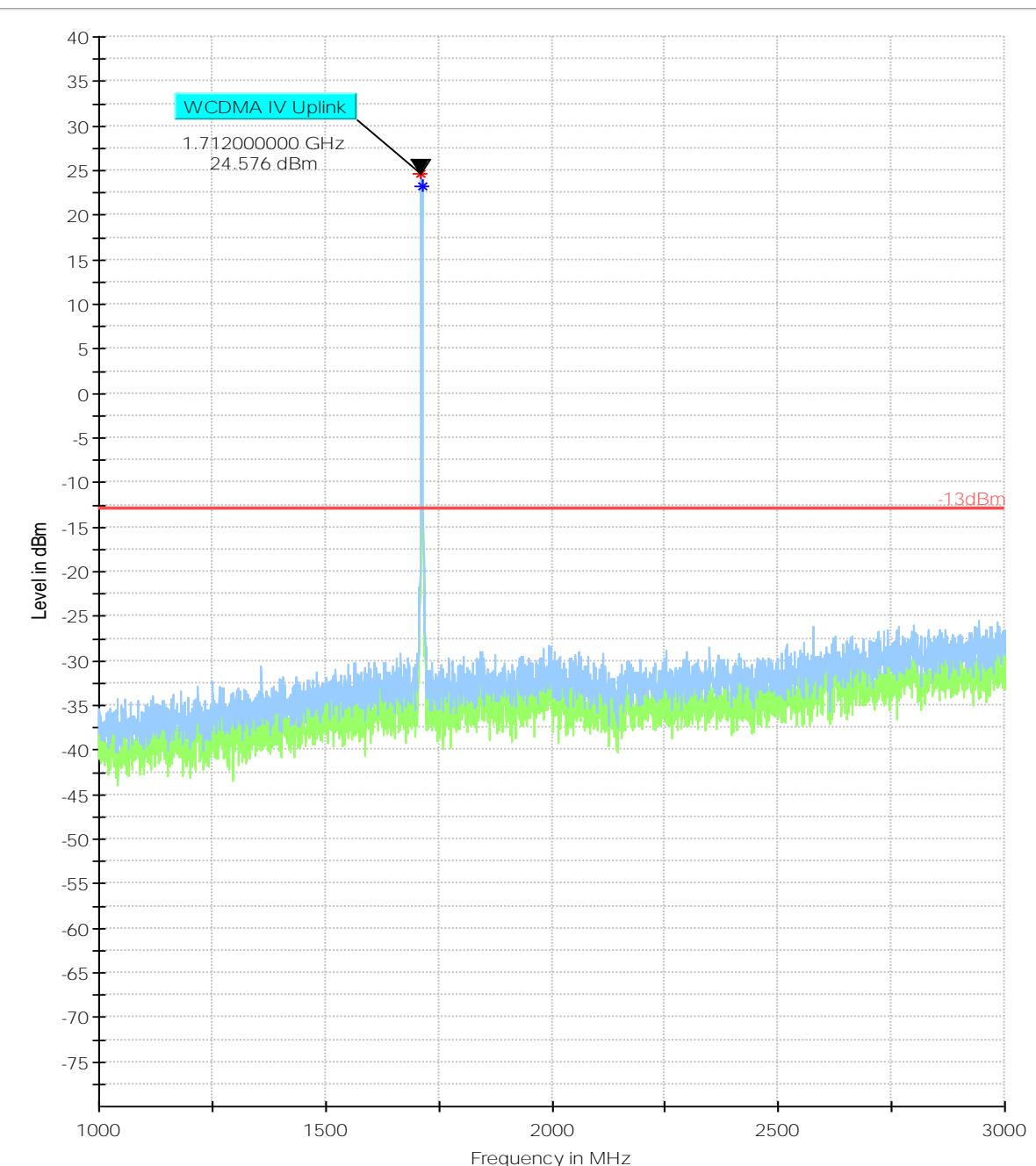
* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 65 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low



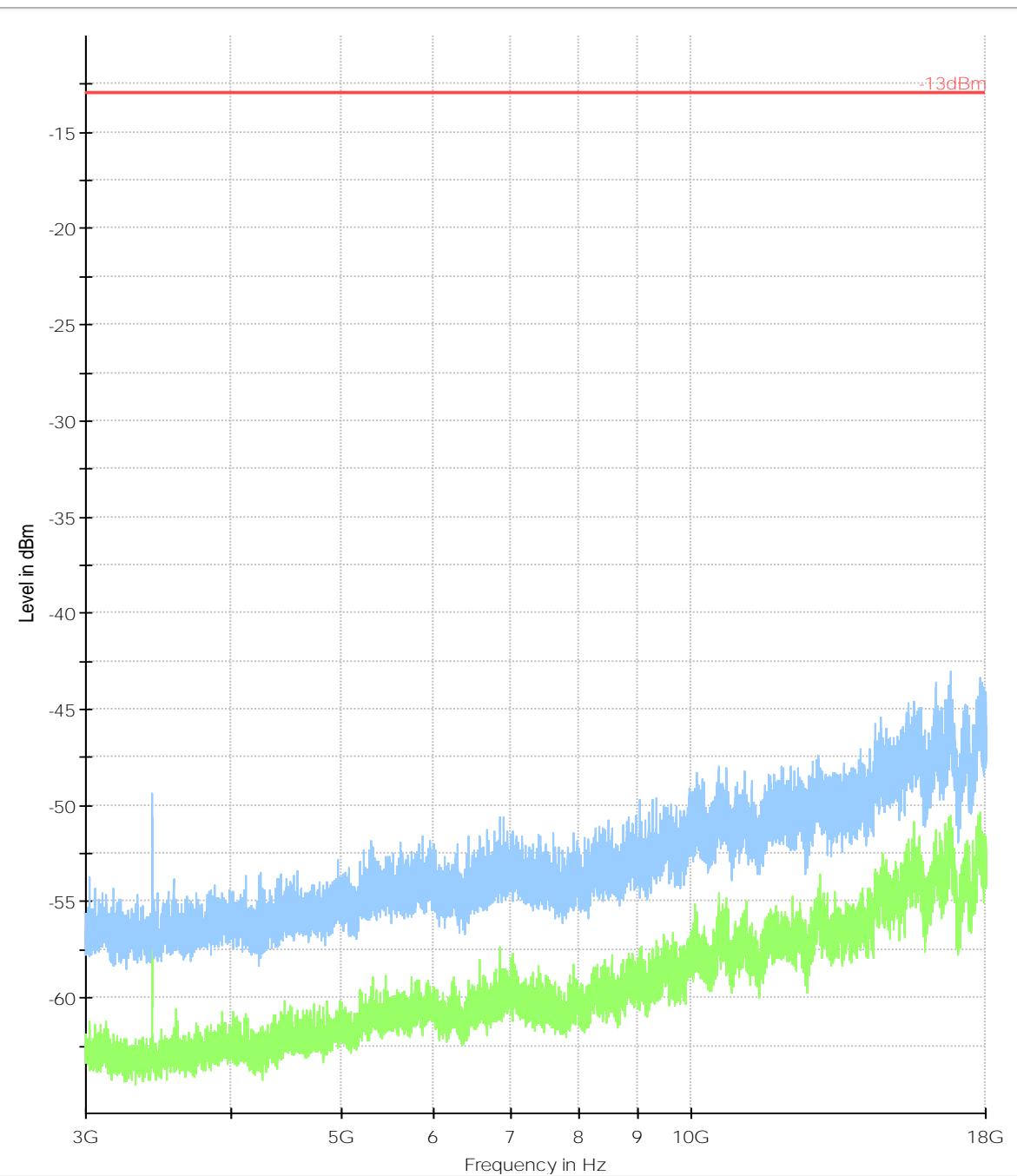
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

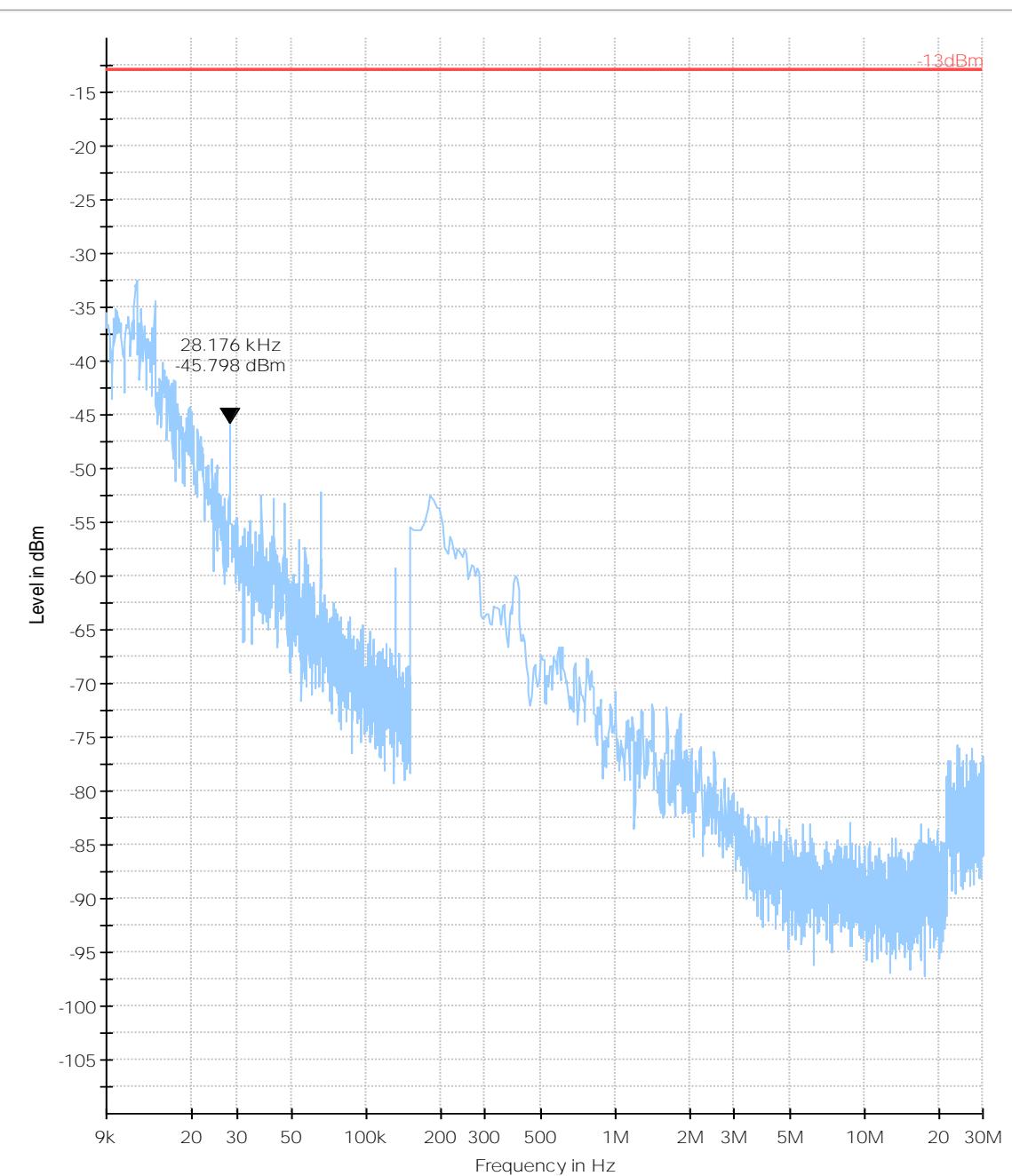
Plot # 66 Radiated Emissions: 3 GHz - 18 GHz

Channel: Low

Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+

Plot # 67 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid



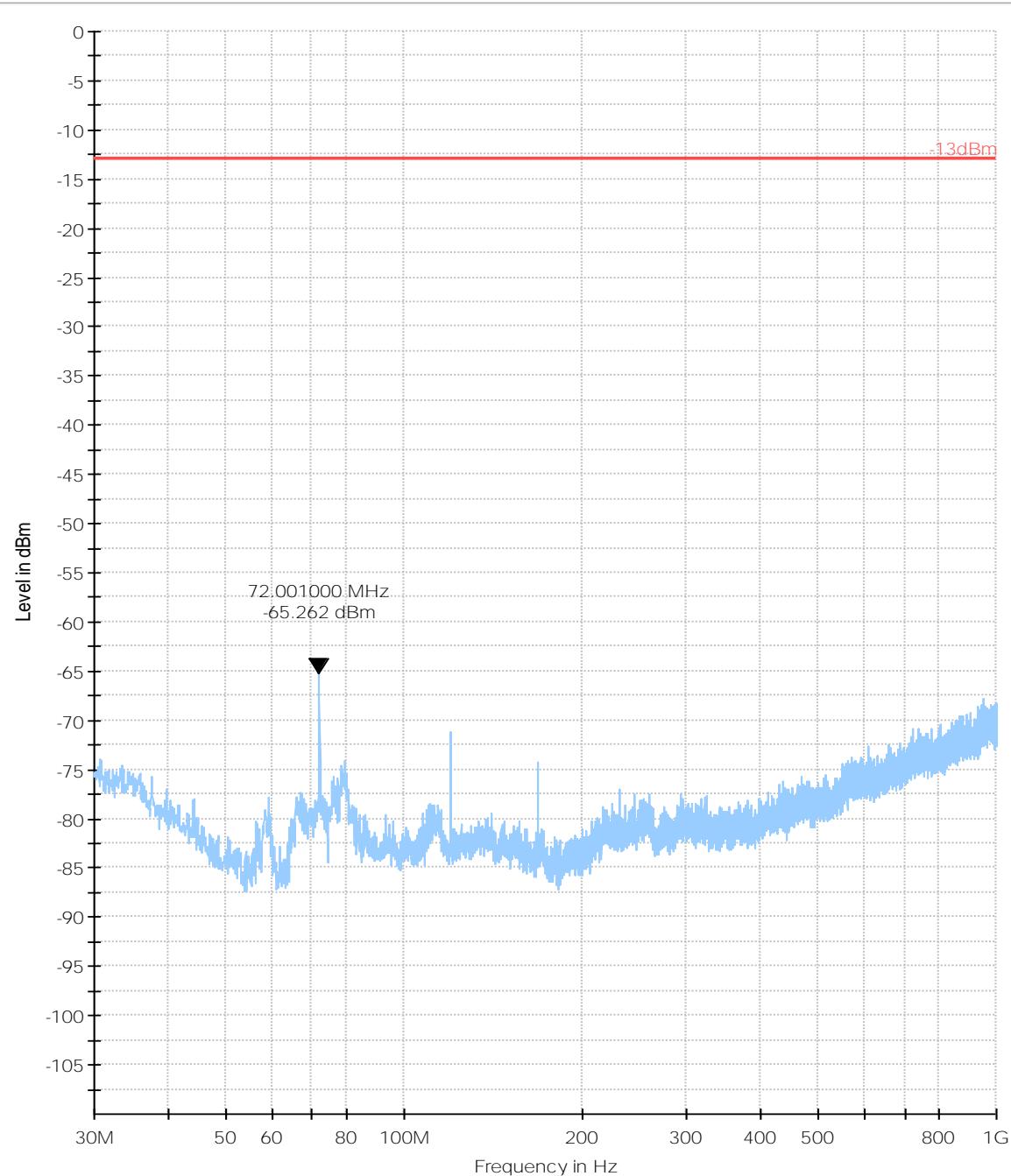
* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 68 Radiated Emissions: 30 MHz - 1GHz

Channel: Mid



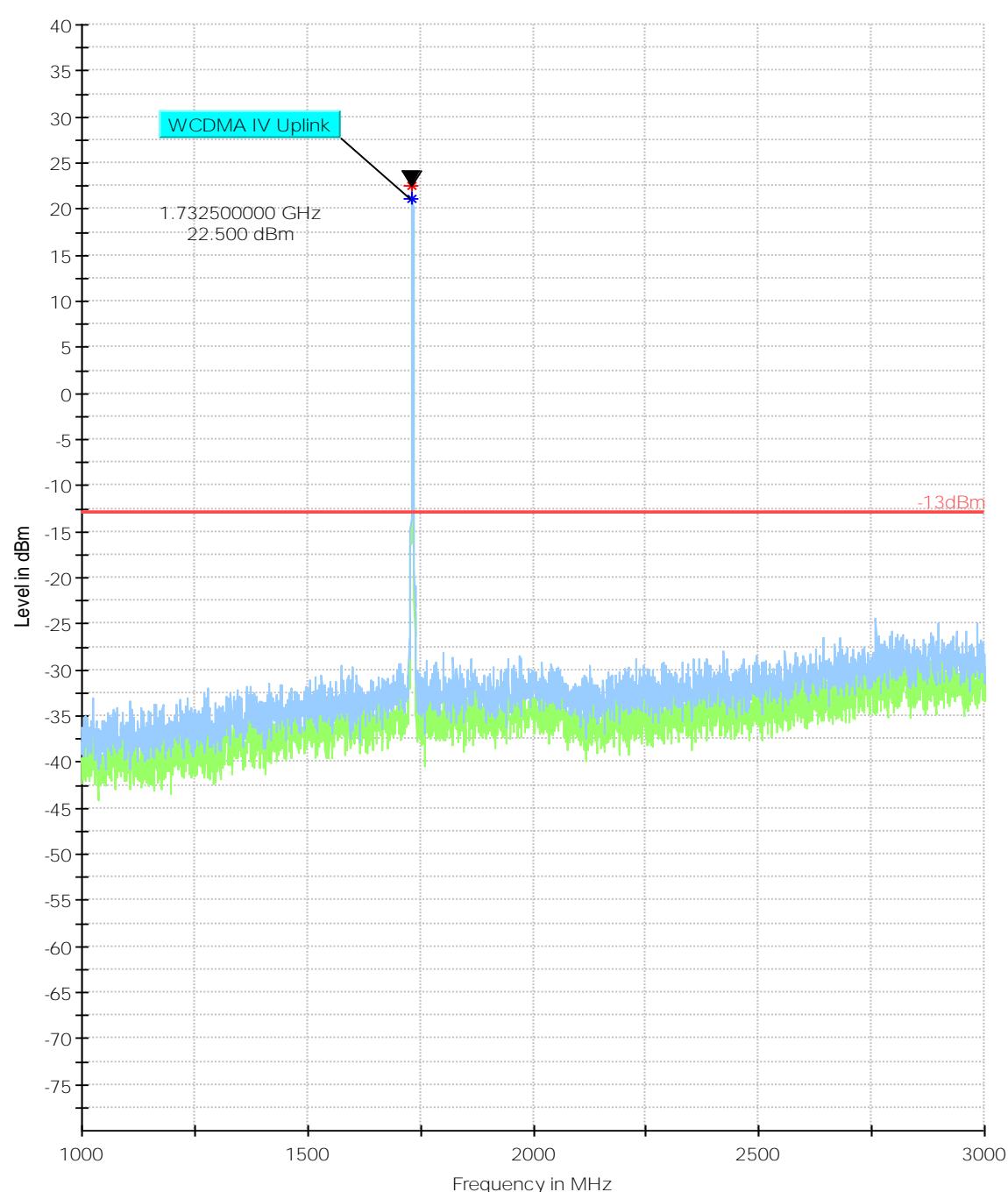
* ◆ Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

— Preview Result 1-PK+
-13dBm

* ◆ Critical_Freqs RMS
Final_Result PK+

Plot # 69 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid



Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Diamond Final_Result PK+

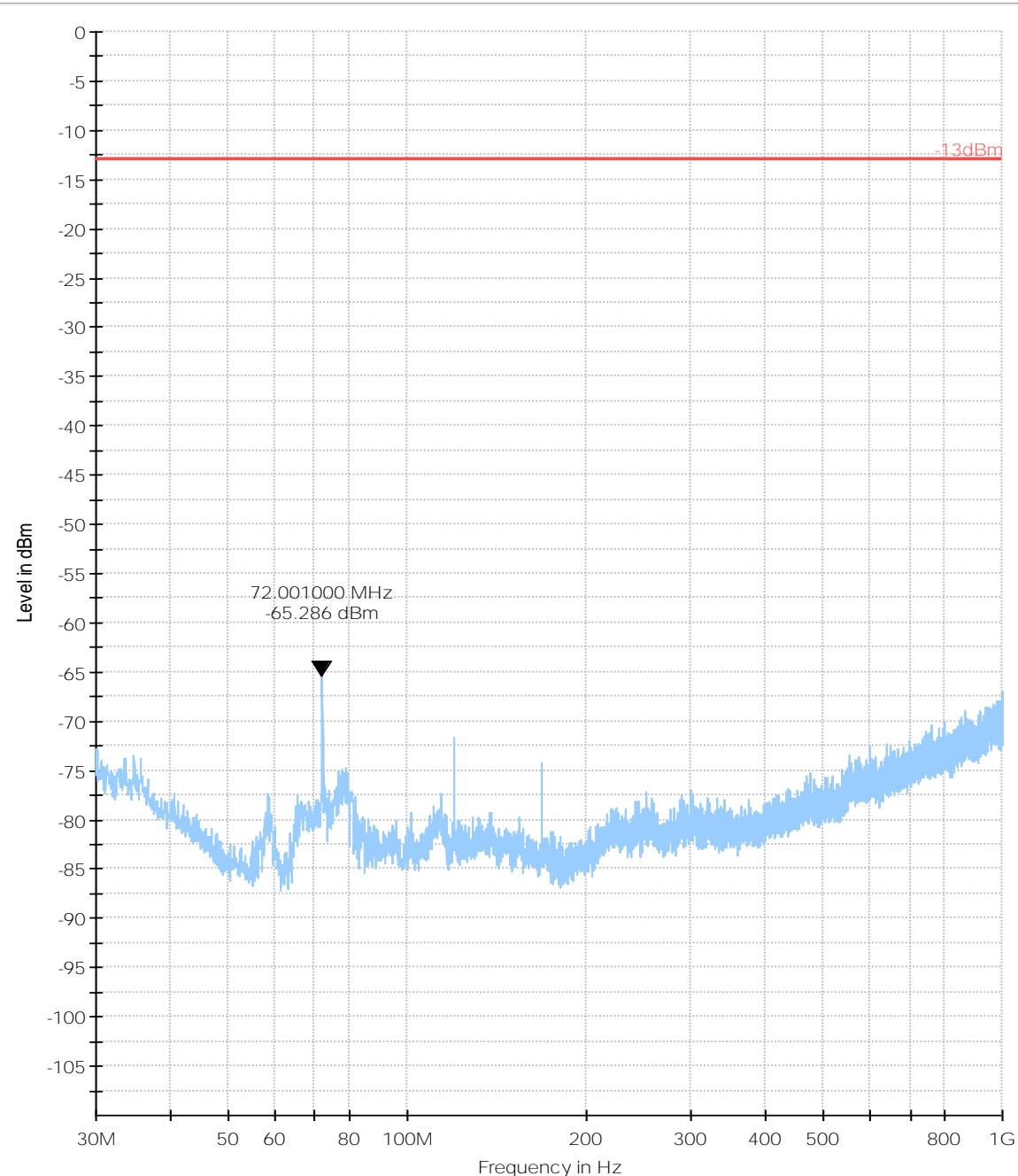
Plot # 70 Radiated Emissions: 3 GHz - 18 GHz

Channel: Mid

Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+

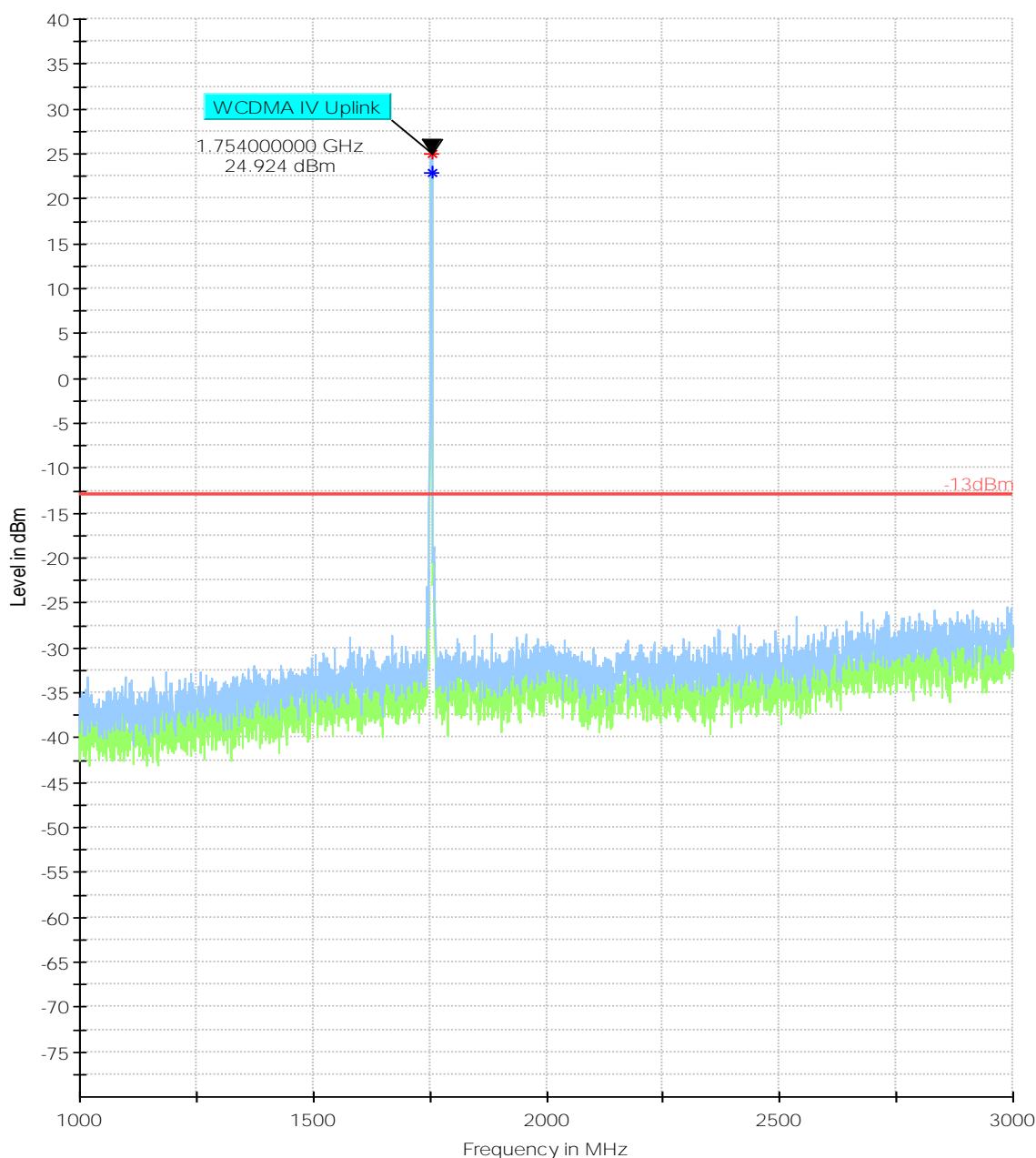
Plot # 71 Radiated Emissions: 30 MHz - 1 GHz

Channel: High

Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMSPreview Result 1-PK+
-13dBmCritical_Freqs RMS
Final_Result PK+

Plot # 72 Radiated Emissions: 1 GHz - 3 GHz

Channel: High



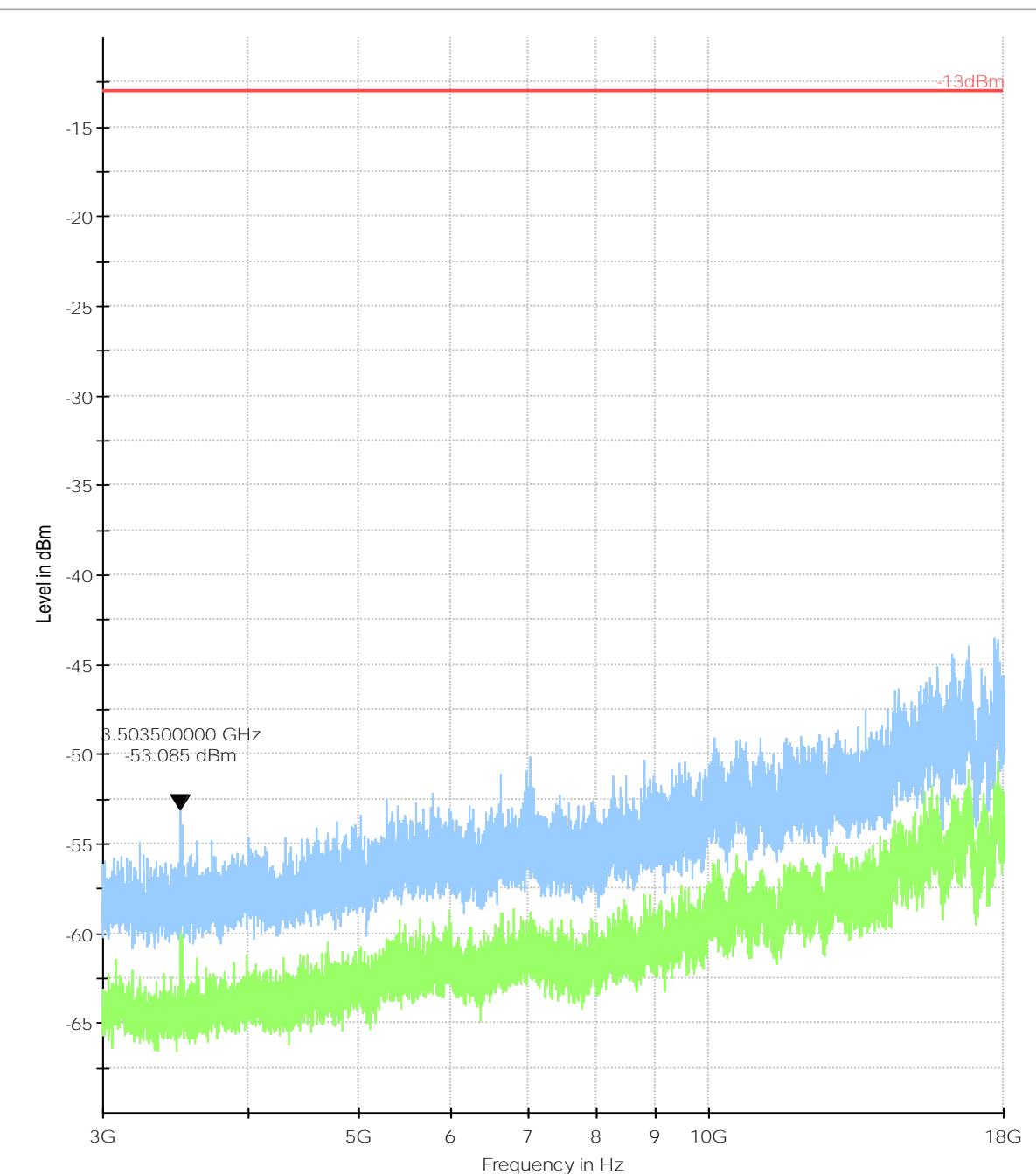
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 73 Radiated Emissions: 3 GHz - 18 GHz

Channel: High



* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* ◆ Critical_Freqs RMS
Final_Result PK+

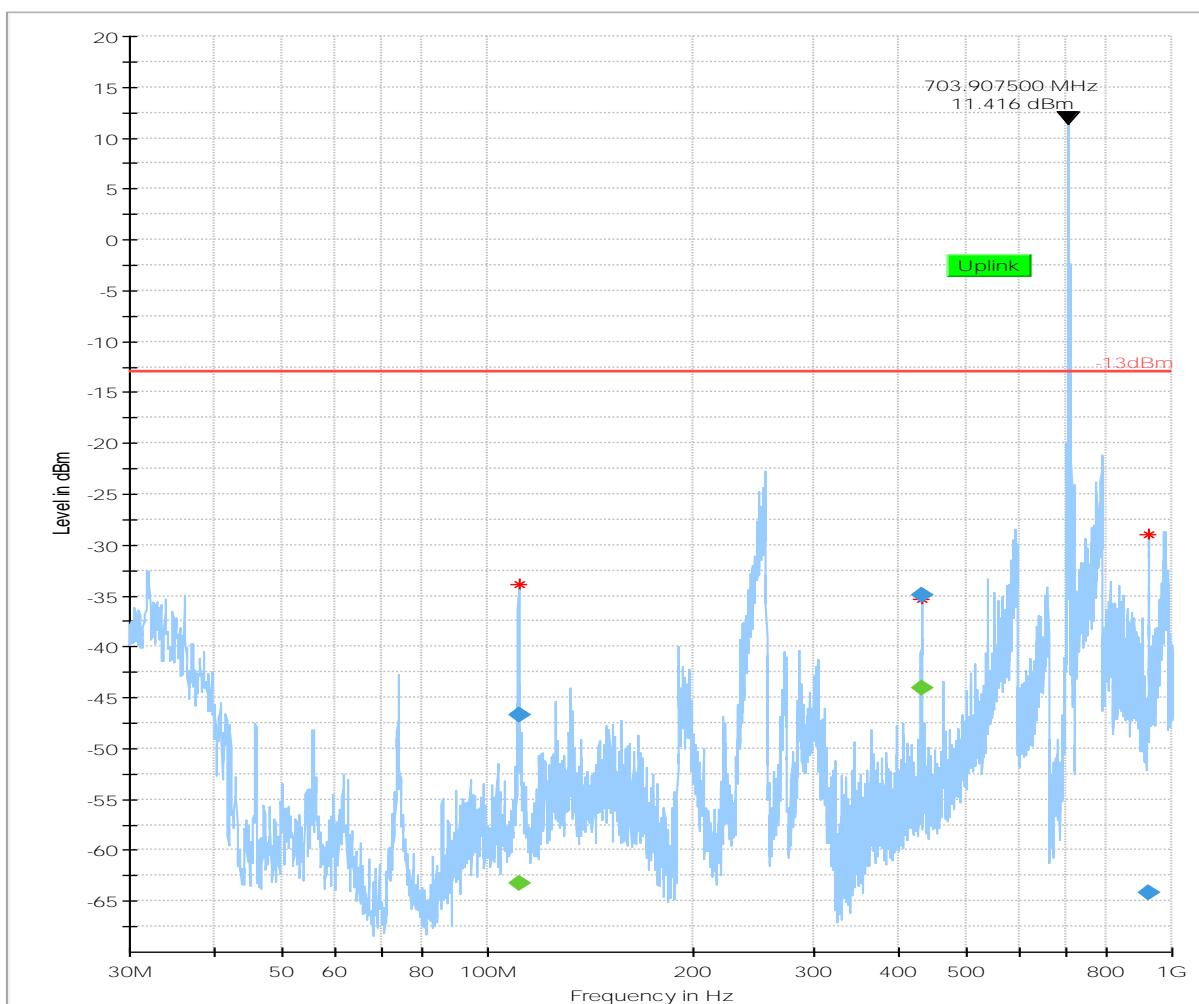
LTE Band 12

Plot # 74 Radiated Emissions: 30 MHz - 1 GHz

Channel: Low

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
111.127000	-46.73	---	-13.00	33.73	200.0	100.000	131.0	V	277.0	-115.9
111.127000	---	-63.21	-13.00	50.21	200.0	100.000	131.0	V	277.0	-115.9
429.762400	---	-44.03	-13.00	31.03	200.0	100.000	100.0	V	194.0	-110.0
429.762400	-34.97	---	-13.00	21.97	200.0	100.000	100.0	V	194.0	-110.0
926.360600	-64.19	---	-13.00	51.19	200.0	100.000	195.0	H	146.0	-100.7
926.360600	---	-74.29	-13.00	61.29	200.0	100.000	195.0	H	146.0	-100.7



Preview Result 2-RMS
 Critical_Freqs PK+
 Final_Result RMS



Preview Result 1-PK+
 -13dBm



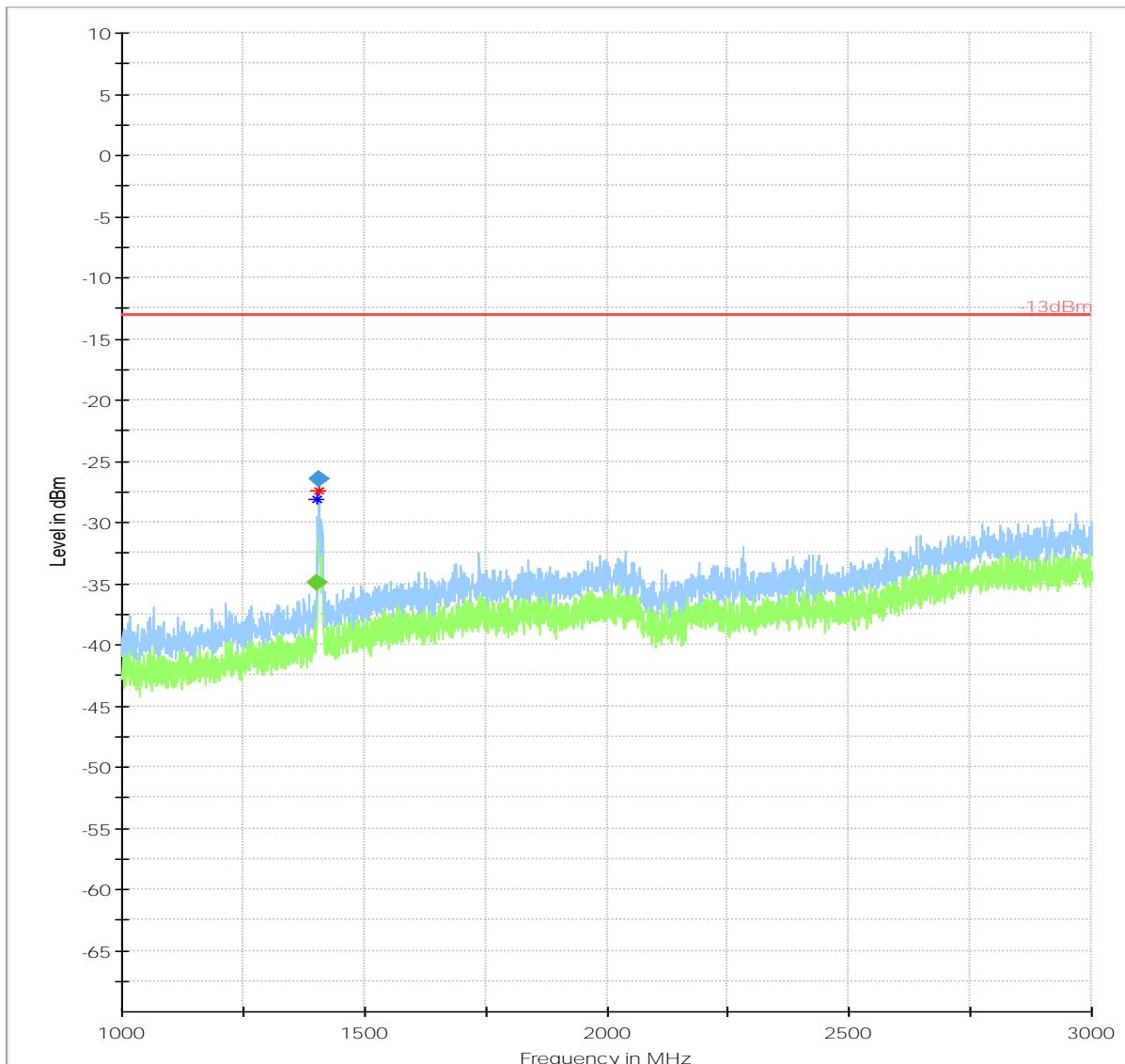
Critical_Freqs RMS
 Final_Result PK+

Plot # 75 Radiated Emissions: 1 GHz - 3 GHz

Channel: Low

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1404.455000	---	-34.89	-13.00	21.89	500.0	1000.000	100.0	V	-73.0	-89.0
1408.275000	-26.52	---	-13.00	13.52	500.0	1000.000	142.0	V	15.0	-89.0



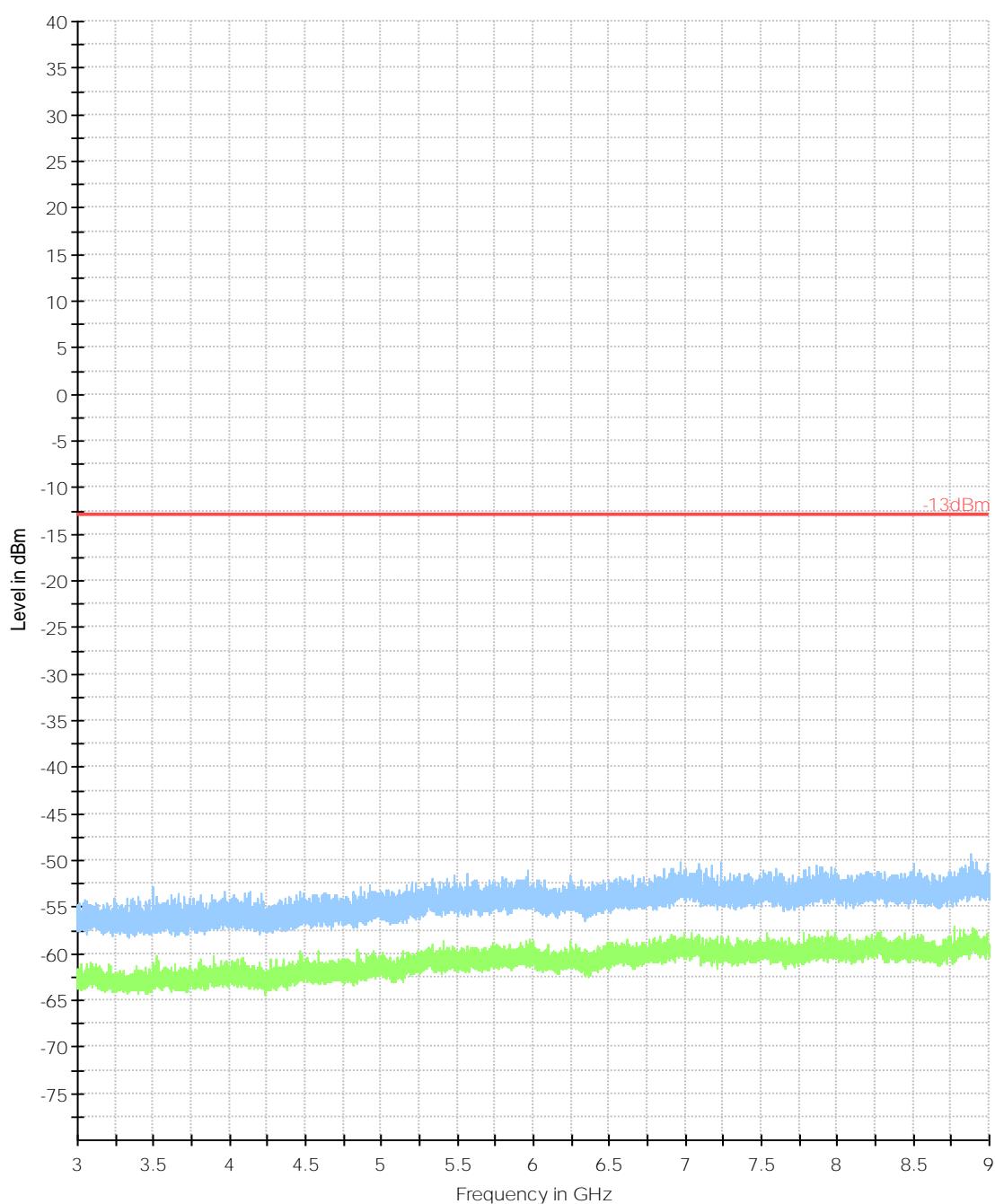
* Critical_Freqs PK+
◆ Final_Result RMS

— Preview Result 1-PK+
— -13dBm

* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 76 Radiated Emissions: 3 GHz - 9 GHz

Channel: Low



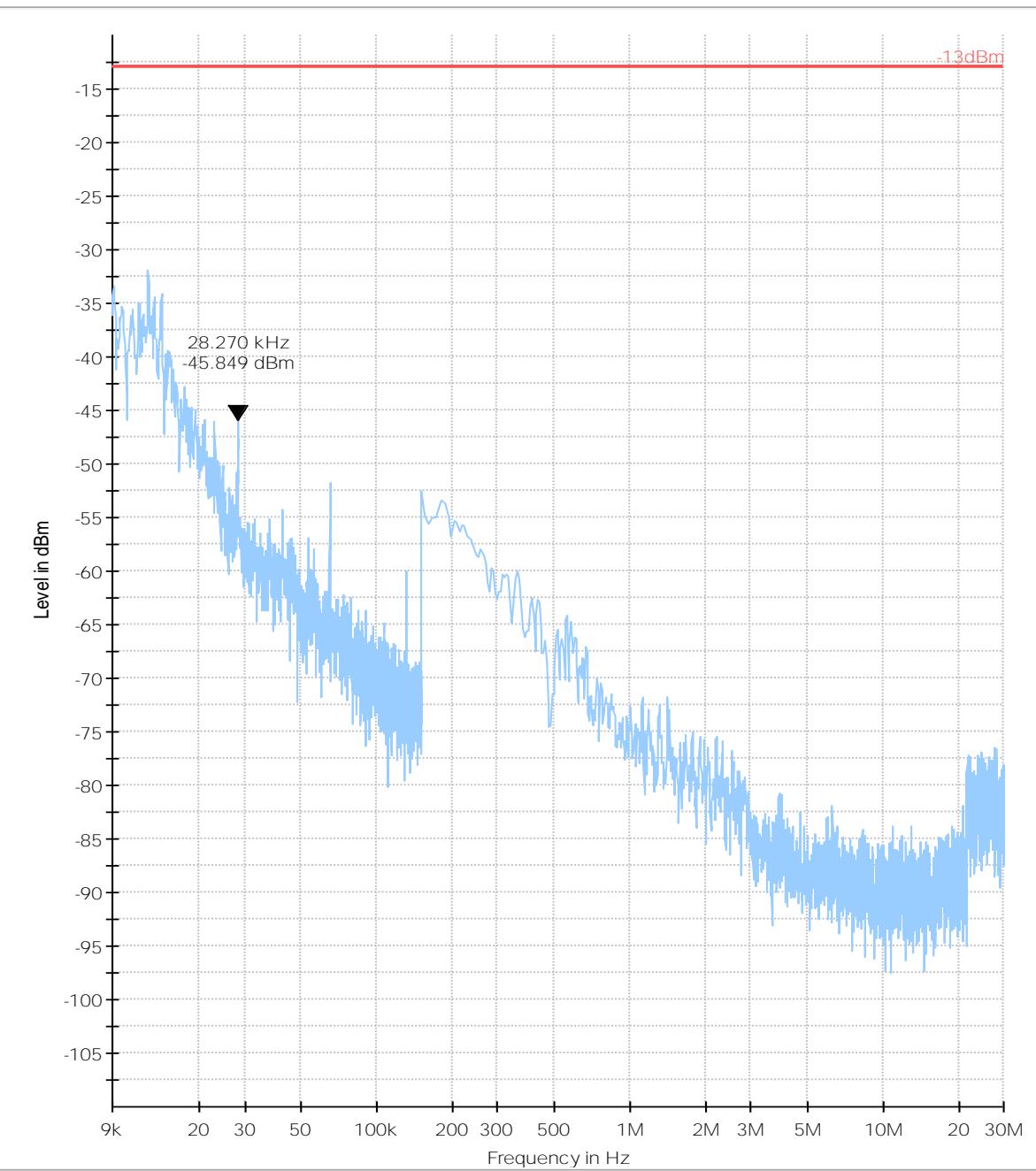
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

* Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 77 Radiated Emissions: 9 kHz - 30 MHz

Channel: Mid



* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

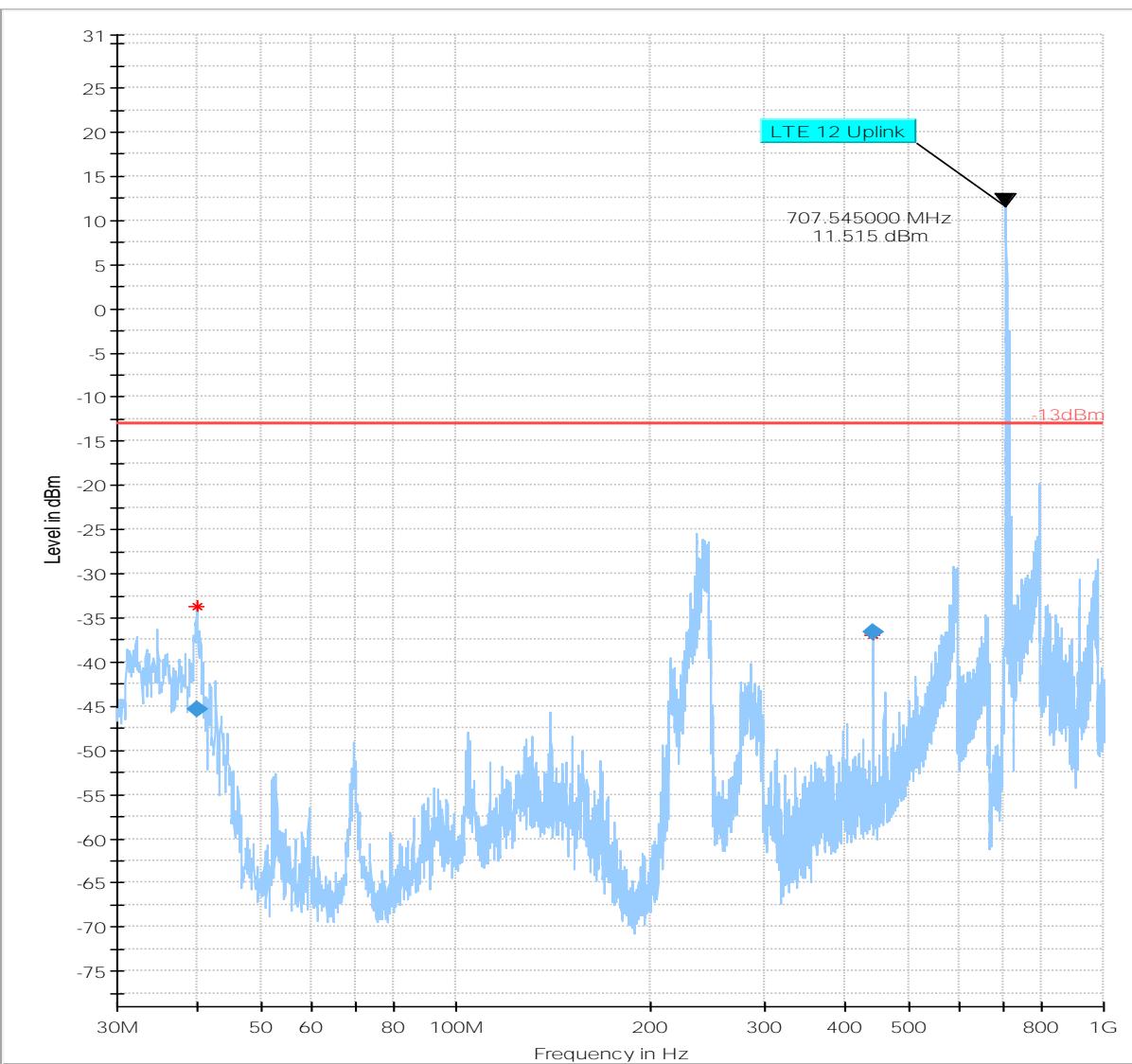
* ◆ Critical_Freqs RMS
Final_Result PK+

Plot # 78 Radiated Emissions: 30 MHz - 1GHz

Channel: Mid

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
39.944600	-45.39	---	-13.00	32.39	200.0	100.000	265.0	V	237.0	-109.6
440.149600	-36.64	---	-13.00	23.64	200.0	100.000	100.0	V	195.0	-109.8



* Preview Result 2-RMS
 Critical_Freqs PK+
 Final_Result RMS

Preview Result 1-PK+
 -13dBm

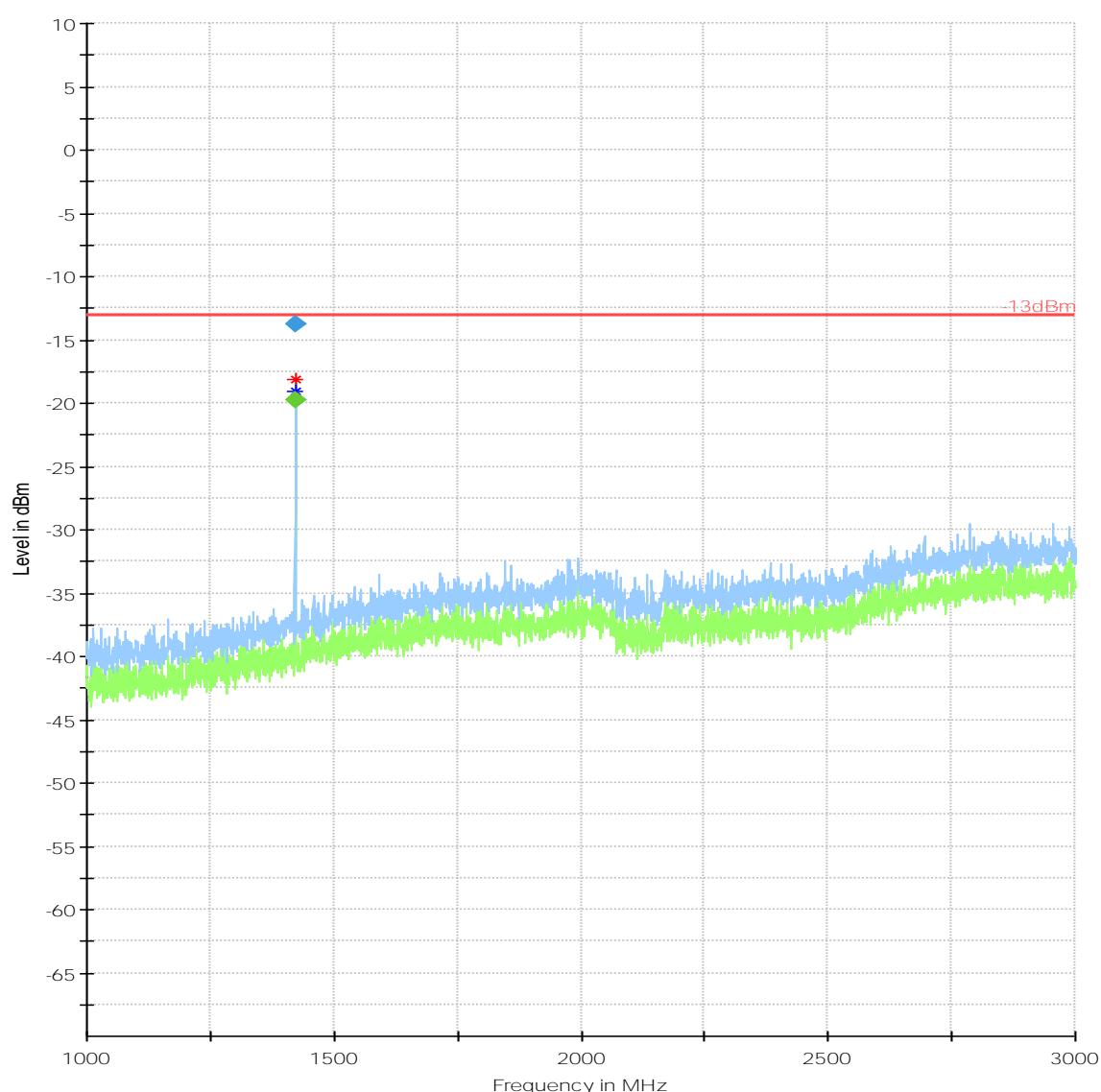
* Critical_Freqs RMS
 Final_Result PK+

Plot # 79 Radiated Emissions: 1 GHz - 3 GHz

Channel: Mid

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1421.950000	---	-19.82	-13.00	6.82	500.0	1000.000	100.0	V	92.0	-89.0
1422.165000	-13.76	---	-13.00	0.76	500.0	1000.000	100.0	V	180.0	-89.0



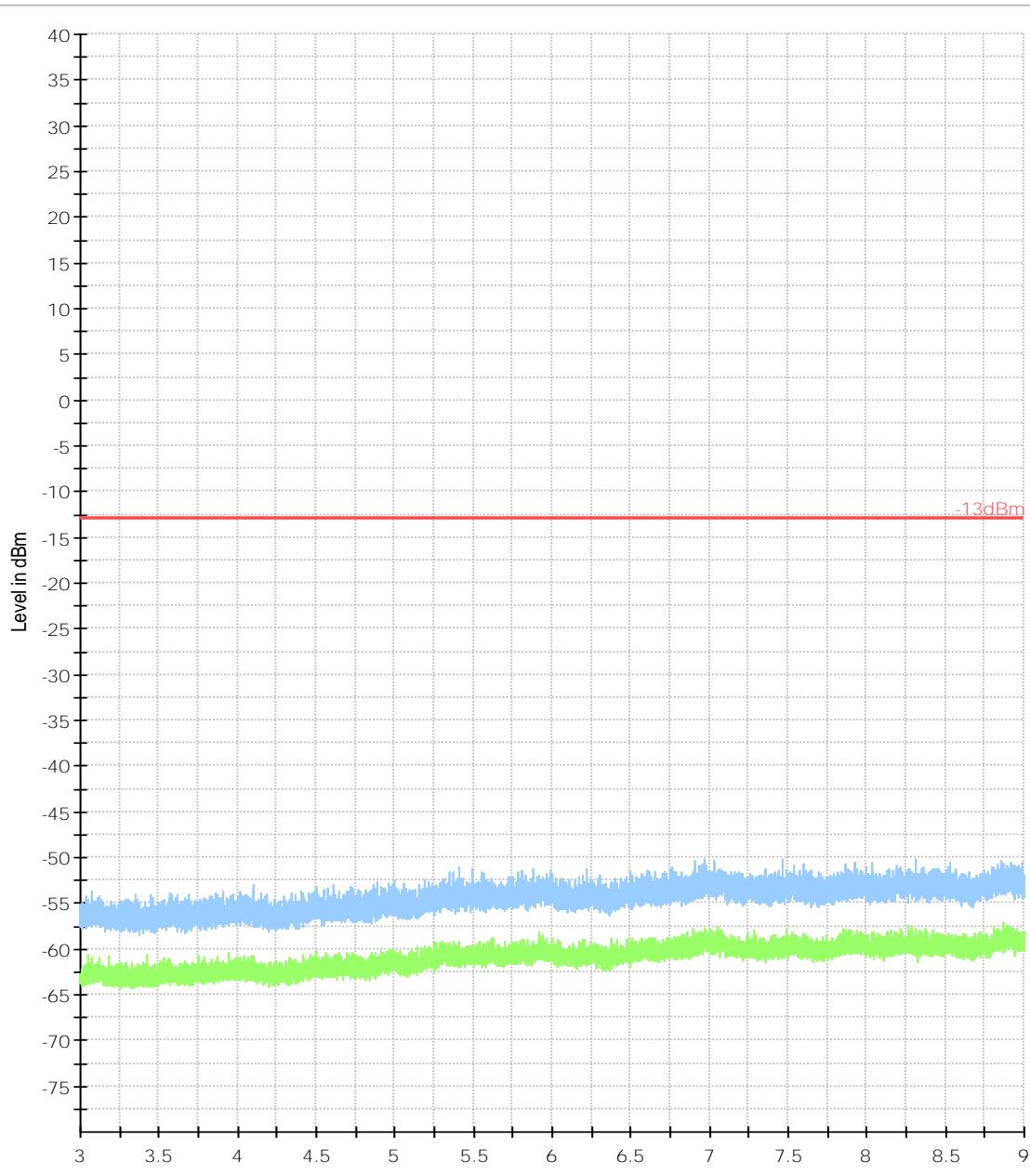
* Preview Result 2-RMS
 Critical_Freqs PK+
 Final_Result RMS

Preview Result 1-PK+
 -13dBm

* Critical_Freqs RMS
 Final_Result PK+

Plot # 80 Radiated Emissions: 3 GHz – 9 GHz

Channel: Mid



* Preview Result 2-RMS
◆ Critical_Freqs PK+
Final_Result RMS

— Preview Result 1-PK+
— -13dBm

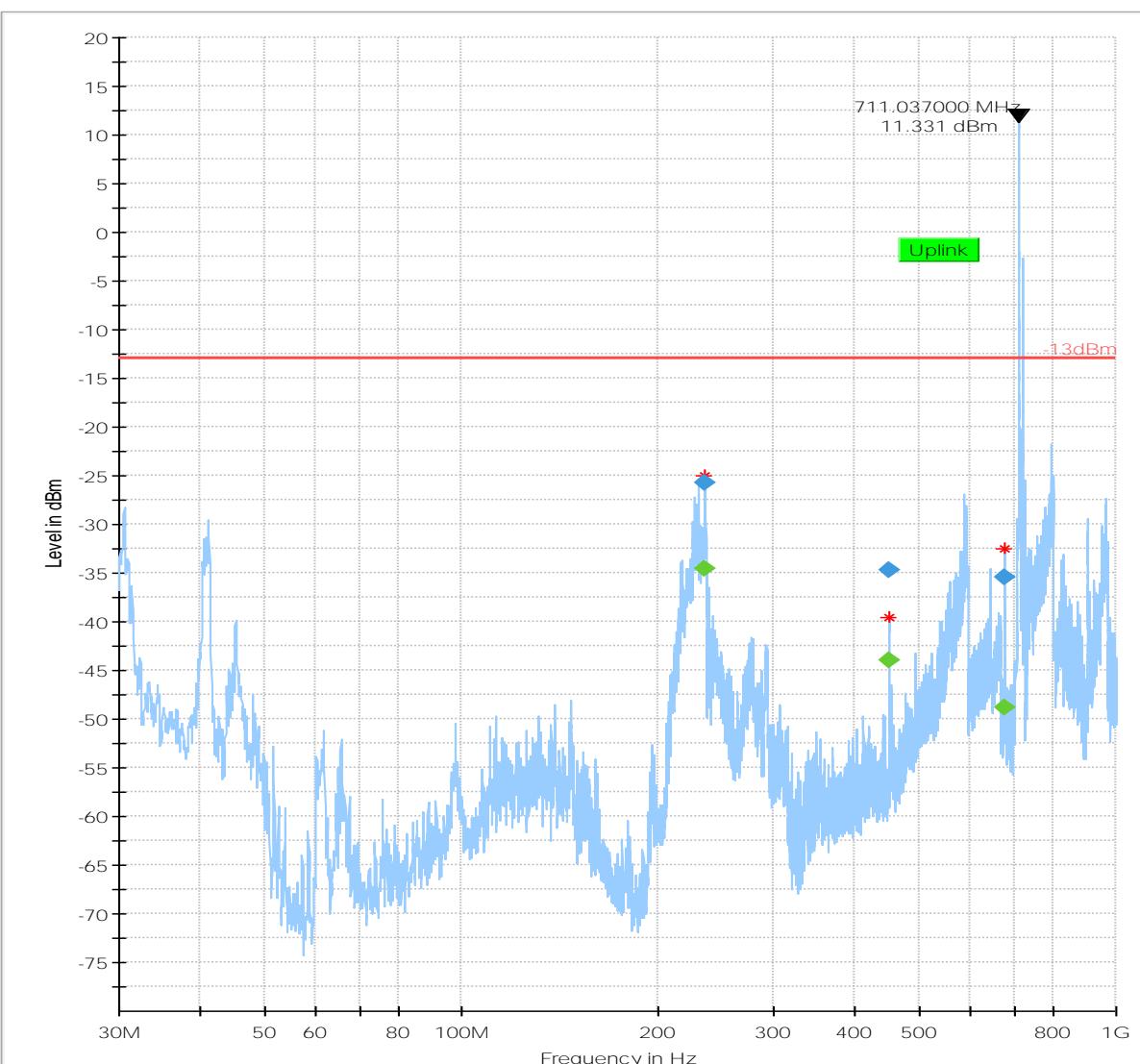
* Critical_Freqs RMS
◆ Final_Result PK+

Plot # 81 Radiated Emissions: 30 MHz - 1 GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
235.801400	---	-34.63	-13.00	21.63	200.0	100.000	100.0	V	192.0	-114.6
235.801400	-25.71	---	-13.00	12.71	200.0	100.000	100.0	V	192.0	-114.6
450.814200	-34.74	---	-13.00	21.74	200.0	100.000	202.0	V	322.0	-109.4
450.814200	---	-44.00	-13.00	31.00	200.0	100.000	202.0	V	322.0	-109.4
676.067100	-35.44	---	-13.00	22.44	200.0	100.000	190.0	V	188.0	-104.6
676.067100	---	-48.80	-13.00	35.80	200.0	100.000	190.0	V	188.0	-104.6

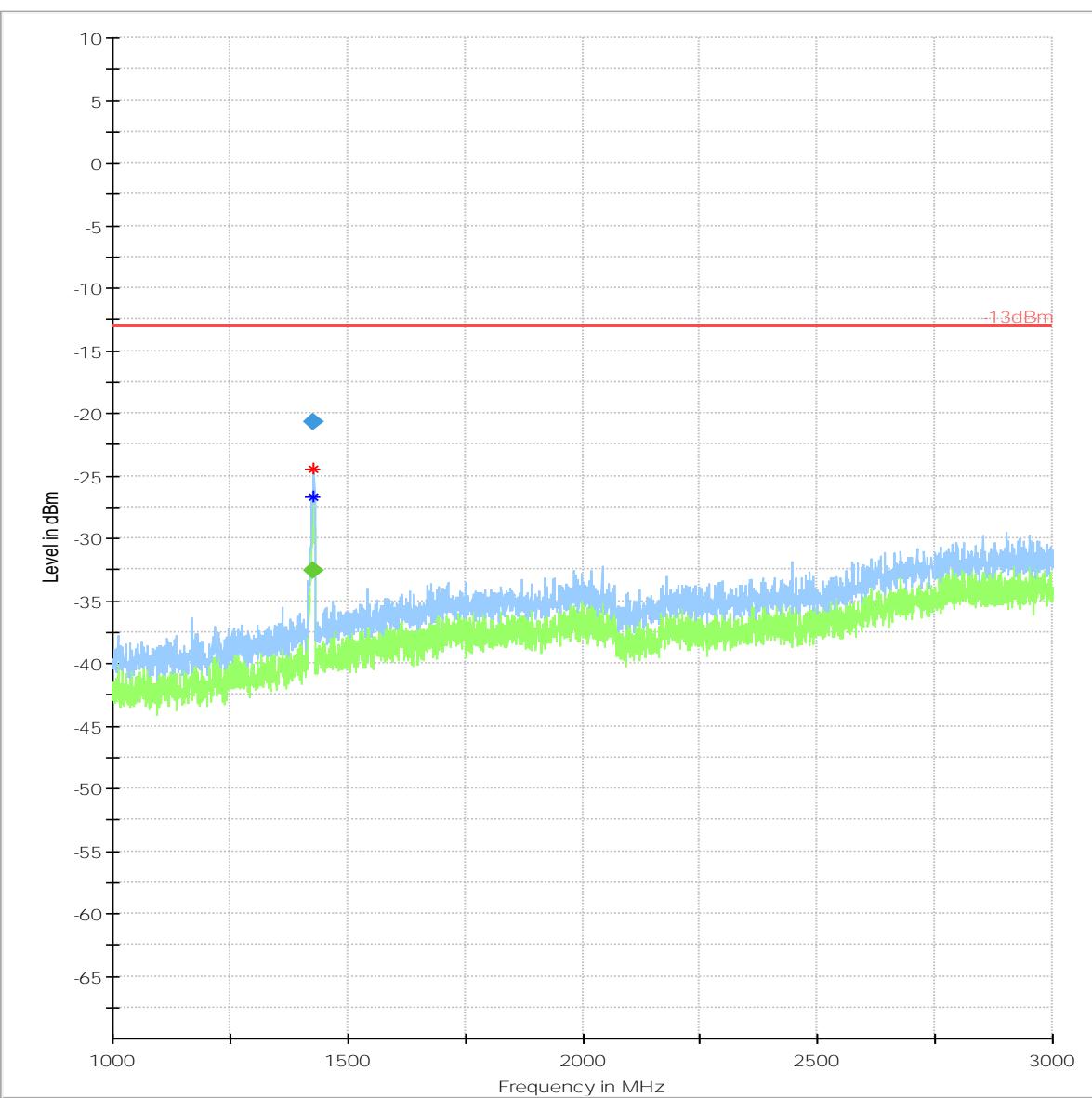


Plot # 82 Radiated Emissions: 1 GHz - 3 GHz

Channel: High

Final_Result

Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
1426.565000	-20.69	---	-13.00	7.69	500.0	1000.000	100.0	V	105.0	-89.0
1427.820000	---	-32.64	---	---	500.0	1000.000	100.0	V	104.0	-89.0



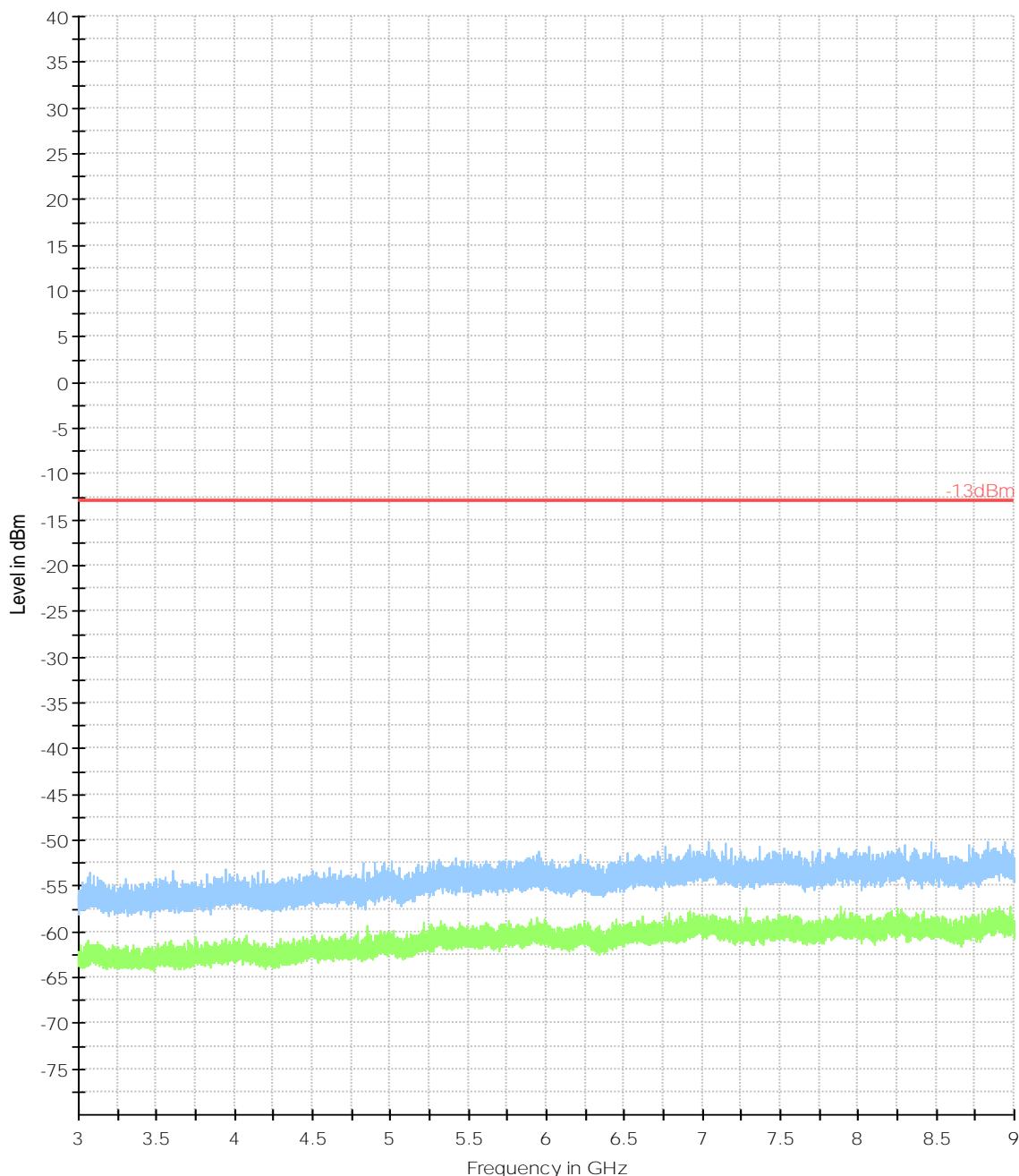
* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

Plot # 83 Radiated Emissions: 3 GHz - 9 GHz

Channel: High



* Preview Result 2-RMS
Critical_Freqs PK+
Final_Result RMS

Preview Result 1-PK+
-13dBm

* Critical_Freqs RMS
Final_Result PK+

8 Test setup photos

Setup photos are included in supporting file name: "EMC_KORET_017_18001_FCC_Setup_Photos.pdf_REV_2"

9 Test Equipment And Ancillaries Used For Testing

Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
PASSIVE LOOP ANTENNA	ETS LINDGREN	6512	00164698	3 YEARS	08/08/2017
BILOG ANTENNA	TESEO	CBL 6141B	41106	3 YEARS	11/01/2017
HORN ANTENNA	EMCO	3115	00035111	3 YEARS	11/17/2015
HORN ANTENNA	ETS LINDGREN	3117	00167061	3 YEARS	08/08/2017
HORN ANTENNA	ETS LINDGREN	3116C	00166821	3 YEARS	09/24/2017
UNIVERSAL RADIO COMMUNICATION TESTER	R&S	CMU 200	101821	2 YEARS	07/06/2017
WIDEBAND RADIO COMMUNICATION	R&S	CMW500	127068	2 YEARS	07/01/2017
SIGNAL ANALYZER	R&S	FSV 40	101022	2 YEARS	07/05/2017
COMPACT DIGITAL BAROMETER	CONTROL COMPANY	35519-055	91119547	2 YEARS	06/08/2017
THRMOMETER HUMIDIY	DICKSON	TM320	16253639	1 YEARS	11/02/2017

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	Report prepared by
06/22/2018	EMC_KORET_017_18001_FCC_22_24_27	Initial Version	Issa Ghanma
06/26/2018	EMC_KORET_017_18001_FCC_22_24_27_REV_1	Correct FCC ID	Issa Ghanma
07/02/2018	EMC_KORET_017_18001_FCC_22_24_27_REV_2	Update the Test setup photos file name	Issa Ghanma
07/16/2018	EMC_KORET_017_18001_FCC_22_24_27_REV_3	<ul style="list-style-type: none">• <u>1 Assessment:</u> Replace "simultaneous transmission of cellular and unlicensed radios" with "cellular radio"• Update the Test setup photos file name	Issa Ghanma