

FCC/ISED Test Report

FOR:

Motive Technologies, Inc.

Model Name:

LBB-3.6CA-b

Product Description:

LBB-3.6CA-b is a Vehicle Gateway. Its purpose is to act as the primary gateway between various pieces of hardware and software in a motor vehicle and the Motive Technologies database backend in the cloud.

FCC ID: 2AQM7-36B IC ID: 24516-36B

Applied Rules and Standards:

47 CFR: Part 22, Part 24, Part 27 RSS-130 Issue 2; RSS-132 Issue 3; RSS-133 Issue 6; RSS-139 Issue 3

REPORT #: EMC_KPTRK-030-22001_FCC_22_24_27

DATE: 08-15-2022



A2LA Accredited

IC recognized # 3462B-2 CABID: US0187

CETECOM Inc.

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

V4.0 2012-07-25

FCC ID: 2AQM7-36B



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1 **Assessment**

The following device as further described in section 3 of this report was evaluated for radiated spurious emissions in simultaneous transmission of cellular and unlicensed radios according to criteria specified in the Code of Federal Regulations Title 47 parts 22, 24, 27 and Industry Canada Radio Standard Specifications RSS: 130 Issue 2, 132 Issue 3, 133 Issue 6 and 139 Issue 3.

Company	Description	Model #
Motive Technologies, Inc.	LBB-3.6CA-b is a Vehicle Gateway. Its purpose is to act as the primary gateway between various pieces of hardware and software in a motor vehicle and the Motive Technologies database back-end in the cloud.	LBB-3.6CA-b

No deficiencies were ascertained.

Responsible for Testing Laboratory:

		Kevin Wang	
08-15-2022	Compliance	(Lab Manager)	
Date	Section	Name	Signature

Responsible for the Report:

		Kris Lazarov	
08-15-2022	Compliance	(Test 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.

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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:	Kevin Wang
Responsible Project Leader:	Akanksha Baskaran

2.2 Identification of the Client

Client's Name:	Motive Technologies, Inc.
Street Address:	55 Hawthorne Street #400
City/Zip Code	San Francisco, California 94105
Country	USA

2.3 Identification of the Manufacturer

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

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3 Equipment Under Test (EUT)

3.1 EUT Specifications

Model No:	LBB-3.6CA-b		
HW Version :	1		
SW Version :	75012		
FCC-ID:	2AQM7-36B		
ISED-ID:	24516-36B		
FWIN:	N/A		
HVIN:	LBB-3.6CA-b		
PMN:	Vehicle Gateway		
Product Description:	LBB-3.6CA-b is a Vehicle Gateway. Its purpose is to act as the primary gateway between various pieces of hardware and software in a motor vehicle and the Motive Technologies database back-end in the cloud.		
Radio Information:	Sierra Wireless module number RC7612 FCC ID: N7NRC76C ISED ID: 2417C-RC76C		
Antenna Information as declared:	Model Name : WCDMA/LTE Main Antenna Part No : CWT0020P Type & Gain : Inverted–F Antenna (IFA); Max Gain 2.7dBi		
Power Supply/ Rated Operating Voltage Range:	Vmin: 6 VDC/ Vnom: 12 VDC / Vmax: 32 VDC		
Operating Temperature Range	Low -20°C, Nominal 20°C, High 85°C		
Other Radios included in the device:	WLAN & Bluetooth Manufacture: Laird Connectivity module number: LSR 450-0159R FCC ID: TFB-1003 ISED ID: 5969A-1003		
Sample Revision	□Prototype Unit; □Production Unit; ■Pre-Production		
EUT Dimensions(mm)	110 X 105 X 25		
Weight(grams):	260		

3.2 EUT Sample details

EUT#	Serial Number	HW Version	SW Version	Notes/Comments
1	AABL36MC270022	1	75012	Radiated Measurement

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3.3 Accessory Equipment details

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AE#	Туре	Model	Manufacturer	Serial Number
1	Vehicle Cable	-	-	-

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3.4 Test Sample Configuration

EUT Set-up # Combination of AE used for test set up		Comments
1	EUT# 1 +AE# 1	

3.5 Mode of Operation details

Mode of Operation	Description of Operating modes	Additional Information
Op. 1	Co-transmission Cellular & WLAN	Cellular was tested on Mid, Channel for each supported LTE/UMTS band at the maximum power, and co-transmitting with WLAN, also at the mid channel.

3.6 Justification for Worst Case Mode of Operation

During the testing process the EUT was tested with transmitter sets on mid channel and co-transmitting with WLAN mid channel at the maximum power transmission. For radiated measurements, all data in this report shows the worst case between horizontal and vertical antenna polarizations and for all orientations of the EUT.

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4 Subject of Investigation

This test report is to support a new equipment authorization under the FCC ID: 2AQM7-36B, and ISED ID: 24516-36B

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The pre-certified module to be integrated is Sierra Wireless RC7612, 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 and Industry Canada Radio Standard Specifications RSS: 130 Issue 2, 132 Issue 3, 133 Issue 6 and 139 Issue 3.

4.1 Dates of Testing:

08/03/2022 - 08/18/2022

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 p	oort)	1.12 dB	0.46 dB	
Radiated emissions	(< 30 MHz)	3.66 dB	3.88 dB	
	(30 MHz - 1GHz)	3.17 dB	3.34 dB	
	(1 GHz – 3 GHz)	5.01 dB	4.45 dB	
	(>3 GHz)	4.0 dB	4.79 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.

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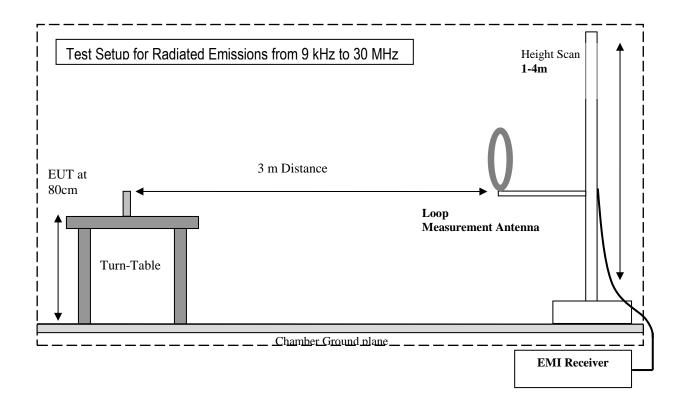
5 <u>Measurement Procedures</u>

Date of Report

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.



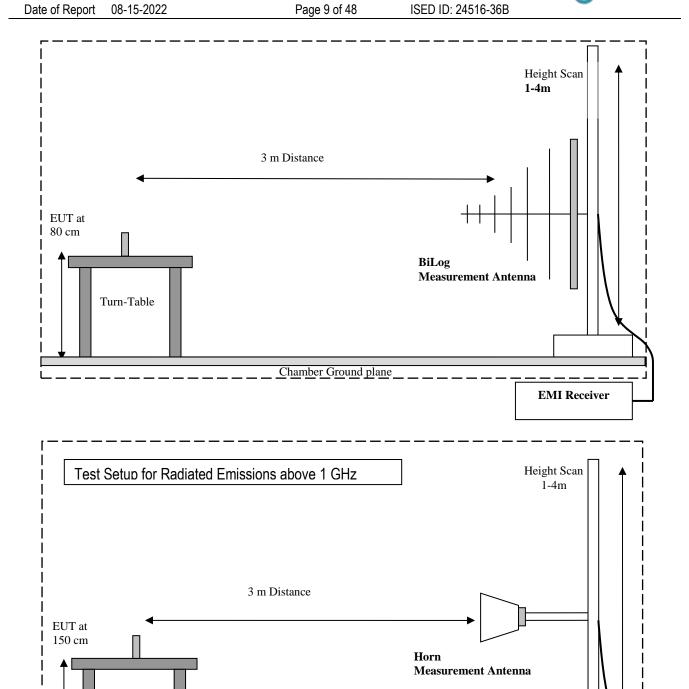
Turn-Table

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EMI Receiver

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Chamber Ground plane

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5.2 Sample Calculations for Field Strength Measurements

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

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- Measured reading in dBµV
- 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 $(dB\mu V/m)$ = Measured Value on SA $(dB\mu V)$ + Cable Loss (dB) + Antenna Factor (dB/m)

Example:

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

6 Measurement Results Summary

6.1 FCC 22, RSS-132:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §22.913 (a)	RF Output Power	Nominal	-					Note 1 Note 2
§2.1055; §22.355	Frequency Stability	Nominal	-				•	Note 1 Note 2
§2.1049; §22.917	Occupied Bandwidth	Nominal	-					Note 1 Note 2
§2.1051; §22.917	Band Edge Compliance	Nominal	-					Note 1 Note 2
§2.1051; §22.917	Conducted Spurious Emissions	Nominal	-				•	Note 1 Note 2
§2.1053; §22.917(a); RSS-132 Issue 3-5.5;	Radiated Spurious Emissions	Nominal	Op.1					Complies

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

Note 2: Leveraged from module certification FCC ID: / IC ID: N7NRC76C / 2417C-RC76C and documented in

Reports No.: BTL-FCCP-1-2203T030, BTL-FCCP-2-2203T030, Report No.: BTL-FCCP-3-2203T030 Issue Date: 2022/6/21 (Technology:

UMTS & LTE)

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6.2 FCC 24, RSS-133:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §24.232 (a)	RF Output Power	Nominal	-				•	Note 1 Note 2
§2.1055; §24.235	Frequency Stability					•	Note 1 Note 2	
§2.1049; §24.238	Occupied Bandwidth							Note 1 Note 2
§2.1051; §24.238	Band Edge Compliance	Nominal	-				•	Note 1 Note 2
§2.1051; §24.238	Conducted Spurious Emissions	Nominal	-				•	Note 1 Note 2
§2.1053; §24.238(a); RSS-133 Issue 6-6.5.1;	Radiated Spurious Emissions	Nominal	Op.1					Complies

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

Note 2: Leveraged from module certification FCC ID: / IC ID: N7NRC76C / 2417C-RC76C and documented in

Relevant Reports No.: BTL-FCCP-1-2203T030, BTL-FCCP-2-2203T030, Report No.: BTL-FCCP-3-2203T030 Issue Date: 2022/6/21

(Technology: UMTS & LTE)

6.3 FCC 27, RSS-130, RSS-139:

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	Fail	NA	NP	Result
§2.1046; §27.50 (d)	RF Output Power	Nominal	-				•	Note 1 Note 2
§2.1055; §27.54	Frequency Stability	Nominal	-				•	Note 1 Note 2
§2.1049; §27.53	Occupied Bandwidth	Nominal	Nominal - E				•	Note 1 Note 2
§2.1051; §27.53	Band Edge Compliance	Nominal	-				•	Note 1 Note 2
§2.1051; §27.53	Conducted Spurious Emissions	Nominal	-					Note 1 Note 2
§2.1053; §27.53(g); §27.53(h); RSS-130 Issue 2-4.6; RSS-139 Issue 3-6.6;	Radiated Spurious Emissions	Nominal	Op.1	•		0	_	Complies

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

Note 2: Leveraged from module certification FCC ID: / IC ID: N7NRC76C / 2417C-RC76C and documented in

Relevant Reports No.: BTL-FCCP-1-2203T030, BTL-FCCP-2-2203T030, Report No.: BTL-FCCP-3-2203T030 Issue Date: 2022/6/21

(Technology: UMTS & LTE)

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6.4 E.I.R.P. Calculated

Band	Frequency Range (MHz)	Power conducted (W)	Emission Designator	Antenna Gain (dBi)	Linear Gain	(W) EIRP ¹	(W) ERP1	(ppm) Frequency deviation	Limit ERP (W)
WCDMA II	1850.0 - 1910.0	0.171	4M14F9W	2.7	1.862	0.318	-	2.5	2
WCDMA IV	1710.0 - 1755.0	0.182	4M14F9W	2.7	1.862	0.339	-	2.5	1
WCDMA V	824.0 - 849.0	0.197	4M13F9W	2.7	1.862	0.367	0.224	2.5	7
LTE 2	1850.0 - 1910.0	0.191	17M9G7D	2.7		0.356	-	2.5	2
LTE 2	1850.0 - 1910.0	0.157	17M9W7D	2.7	1.862	0.292	-	2.5	2
LTE 4	1710.0 - 1755.0	0.17	17M9G7D	2.7		0.317	-	2.5	1
LTE 4	1710.0 - 1755.0	0.141	17M9W7D	2.7	1.862	0.263	0.194	2.5	1
LTE 5	824.0 - 849.0	0.171	8M96G7D	2.7		0.318	0.194	2.5	7
LTE 5	824.0 - 849.0	0.142	8M98W7D	2.7	1.862	0.264	0.161	2.5	7
LTE 12	699.0 - 716.0	0.17	9M02G7D	2.7		0.317	0.193	2.5	3
LTE 12	699.0 - 716.0	0.141	8M97W7D	2.7	1.862	0.263	0.160	2.5	3
LTE 13	777.0 - 787.0	0.166	8M92G7D	2.7		0.309	0.188	2.5	3
LTE 13	777.0 - 787.0	0.137	8M90W7D	2.7	1.862	0.255	0.156	2.5	3

Note 1: E.I.R.P. are calculated from maximum power in the grant of cellular module RC7612 from sierra Wireless and adding the maximum gain of the utilized cellular antenna per operational description.

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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 and 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

- p - c - c - c - c - c - c - c - c - c	operation many are real and a second a second and a second a second and a second a											
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); FCC Part 90.699 (a) 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.

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 log10p (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 log10 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.

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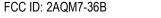
7.1.3 Test conditions and setup:

Ambient Temperature (C)	EUT operating mode	Power Input	
22	Op. 1	12 VDC	

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7.1.4 Measurement result:

Plot #	EUT Operating Mode	Transmitter Configuration	Scan Frequency	Limit (dBm)	Result
1-4	1	UMTS V + WLAN	9 kHz – 9 GHz	-13	Pass
5-8	1	LTE 5 + WLAN	9 kHz – 9 GHz	-13	Pass
9-12	1	UMTS II + WLAN	9 kHz – 18 GHz	-13	Pass
13-16	1	LTE 2 + WLAN	9 kHz – 18 GHz	-13	Pass
17-20	1	UMTS IV + WLAN	9 kHz – 18 GHz	-13	Pass
21-14	1	LTE 4 + WLAN	9 kHz – 18 GHz	-13	Pass
25-28	1	LTE 12 + WLAN	9 kHz – 9 GHz	-13	Pass
29-32	1	LTE 13 + WLAN	9 kHz – 9 GHz	-13	Pass



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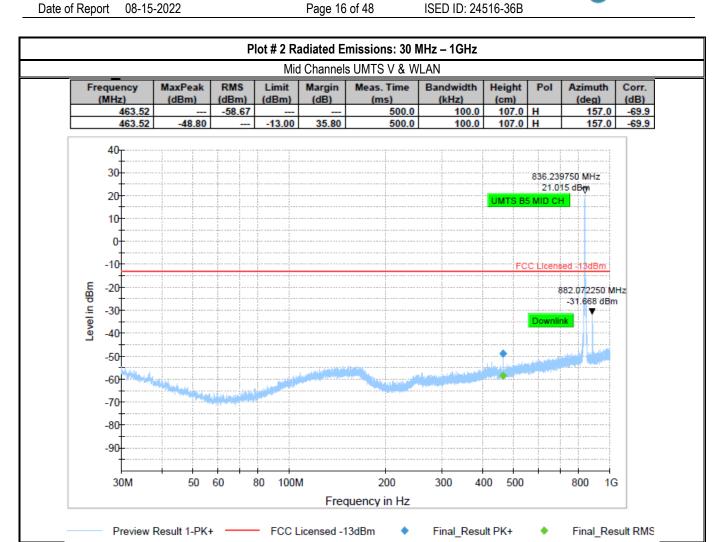
7.1.5 Measurement Plots:

Plot # 1 Radiated Emissions: 9 kHz - 30 MHz Mid Channels UMTS V & WLAN Frequency (MHz) Limit Meas. Time Corr. MaxPeak **RMS** Margin Bandwidth Height Pol Azimuth (dBm) (dBm) (dBm) (dB) (ms) (kHz) (cm) (deg) (dB) 0.03 -20.23 500.0 9.0 100.0 H -6.0 -73.3 500.0 0.06 -26.15 9.0 100.0 H 88.0 -76.2 0.10 -29.90 500.0 9.0 100.0 V 161.0 -76.9 100.0 V 19.71 -55.38 500.0 9.0 56.0 -78.7 -10 FCC Licensed -13dBm -20 -30 -40 Level in dBm -50 -70 -80 -90 100k 200 300 500 2M 3M 10M 20 30M Frequency in Hz Final_Result PK+ Final_Result RMS Preview Result 1-PK+ -FCC Licensed -13dBm

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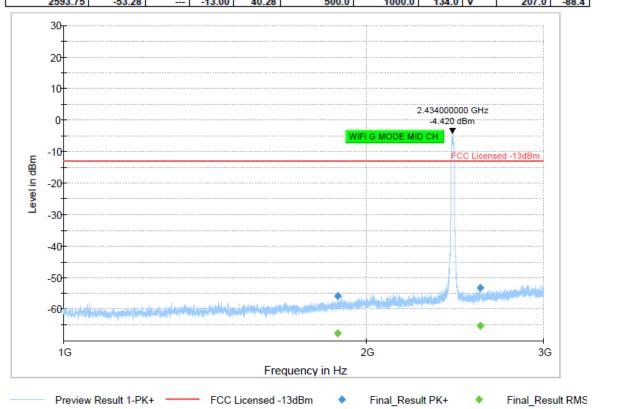


Plot # 3 Radiated Emissions: 1 GHz - 3 GHz

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Mid Channels UMTS V & WLAN

	Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
ı	(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
	1872.50	1	-67.65			500.0	1000.0	295.0	٧	122.0	-90.7
	1872.50	-55.76		-13.00	42.76	500.0	1000.0	295.0	V	122.0	-90.7
	2593.75		-65.24			500.0	1000.0	134.0	V	207.0	-88.4
	2593.75	-53.28		-13.00	40.28	500.0	1000.0	134.0	V	207.0	-88.4



Preview Result 1-PK+

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Final_Result RMS

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Final_Result PK+

Plot # 4 Radiated Emissions: 3 GHz - 9 GHz Mid Channels UMTS V & WLAN MaxPeak RMS Margin Bandwidth Azimuth Corr. Frequency Meas. Time Height (MHz) (dBm) (dB) (kHz) (dB) (dBm) (dBm) (ms) (cm) (deg) 3546.25 500.0 1000.0 260.0 H 335.0 -102.0 3546.25 -13.00 41.06 1000.0 -54.06 500.0 260.0 H 335.0 -102.0 8059.00 -60.46 1000.0 177.0 V 127.0 500.0 -94.8 127.0 8059.00 -48.68 -13.00 35.68 500.0 1000.0 177.0 V -94.8 30 20 Level in dBm -20 -30 -40 -50 3G 5G 6 8 9G Frequency in Hz

FCC Licensed -13dBm

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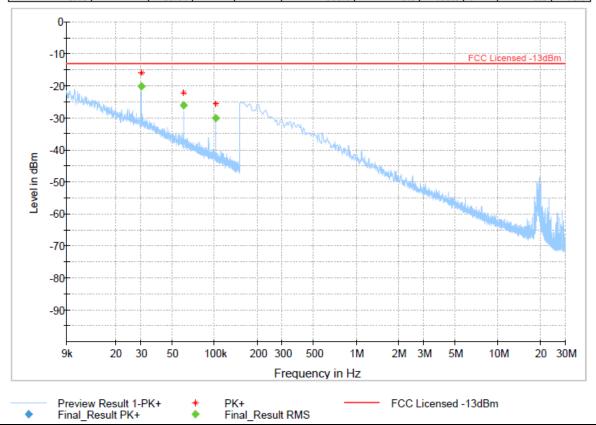


Plot # 5 Radiated Emissions: 9 kHz - 30 MHz

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Mid Channels LTE 5 & WLAN

	Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
[0.03		-20.19	-		500.0	9.0	100.0	Н	11.0	-73.3
[0.06		-26.05	-		500.0	9.0	100.0	Н	196.0	-76.2
[0.10		-30.01			500.0	9.0	100.0	V	5.0	-76.9



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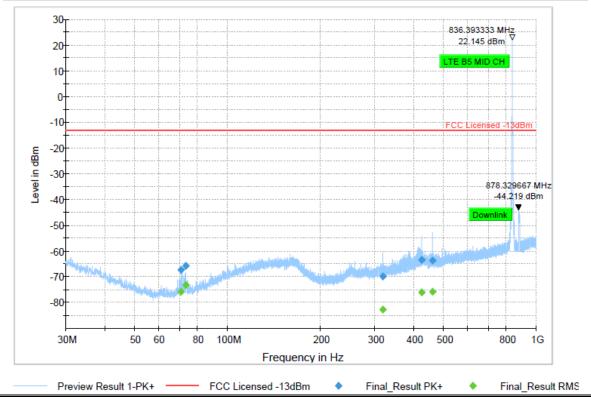


Plot # 6 Radiated Emissions: 30 MHz - 1GHz

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Mid Channels LTE 5 & WLAN

Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
70.77	-67.39		-13.00	54.39	500.0	100.0	159.0	V	311.0	-81.8
70.77		-75.92			500.0	100.0	159.0	V	311.0	-81.8
73.20	-65.82		-13.00	52.82	500.0	100.0	100.0	V	297.0	-81.5
73.20		-73.36			500.0	100.0	100.0	V	297.0	-81.5
319.22		-82.89			500.0	100.0	116.0	Н	260.0	-73.5
319.22	-69.97		-13.00	56.97	500.0	100.0	116.0	Н	260.0	-73.5
425.63	-63.46		-13.00	50.46	500.0	100.0	117.0	Н	98.0	-71.8
425.63	-	-76.01			500.0	100.0	117.0	Н	98.0	-71.8
460.97	-63.84		-13.00	50.84	500.0	100.0	107.0	Н	-72.0	-69.9
460.97	-	-75.71			500.0	100.0	107.0	Н	-72.0	-69.9



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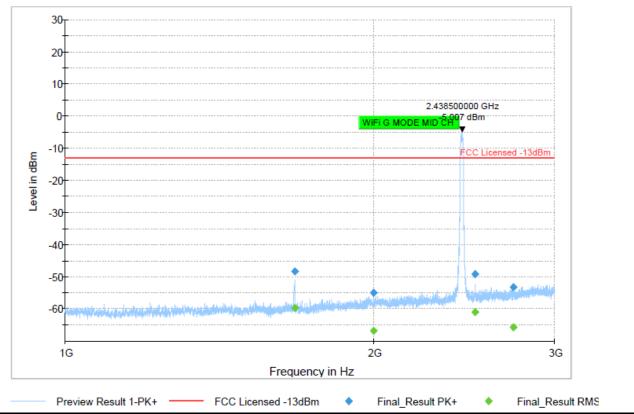


Plot # 7 Radiated Emissions: 1 GHz - 3 GHz

FCC ID: 2AQM7-36B

Mid Channels LTE 5 & WLAN

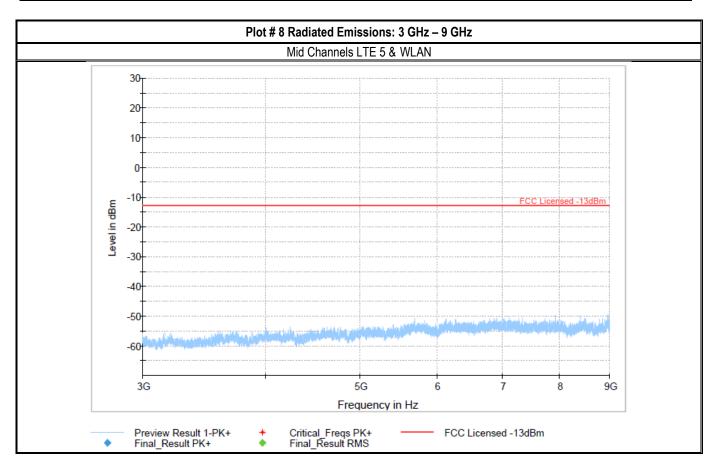
Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
1674.50		-59.71		-	500.0	1000.0	133.0	Н	156.0	-91.7
1674.50	-48.23		-13.00	35.23	500.0	1000.0	133.0	Н	156.0	-91.7
1999.25	-55.01		-13.00	42.01	500.0	1000.0	314.0	Н	298.0	-90.2
1999.25		-66.88			500.0	1000.0	314.0	Н	298.0	-90.2
2510.50	-49.20		-13.00	36.20	500.0	1000.0	125.0	Н	294.0	-88.6
2510.50		-61.08			500.0	1000.0	125.0	Н	294.0	-88.6
2734.25		-65.80			500.0	1000.0	254.0	V	226.0	-88.0
2734.25	-53.29		-13.00	40.29	500.0	1000.0	254.0	V	226.0	-88.0



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FCC ID: 2AQM7-36B



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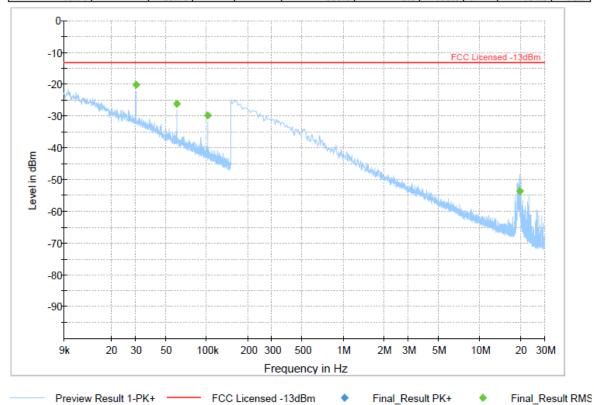


Plot # 9 Radiated Emissions: 9 kHz - 30 MHz

FCC ID: 2AQM7-36B

Mid Channels UMTS II & WLAN

Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
0.03		-20.24			500.0	9.0	100.0	Н	276.0	-73.3
0.06		-26.13			500.0	9.0	100.0	Н	13.0	-76.2
0.10		-29.78			500.0	9.0	100.0	V	355.0	-76.9
19.71		-53.70			500.0	9.0	100.0	V	134.0	-78.7



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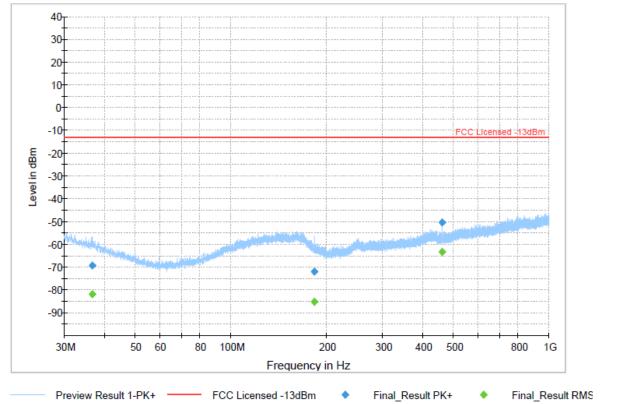


Plot # 10 Radiated Emissions: 30 MHz – 1GHz

FCC ID: 2AQM7-36B

Mid Channels UMTS II & WLAN

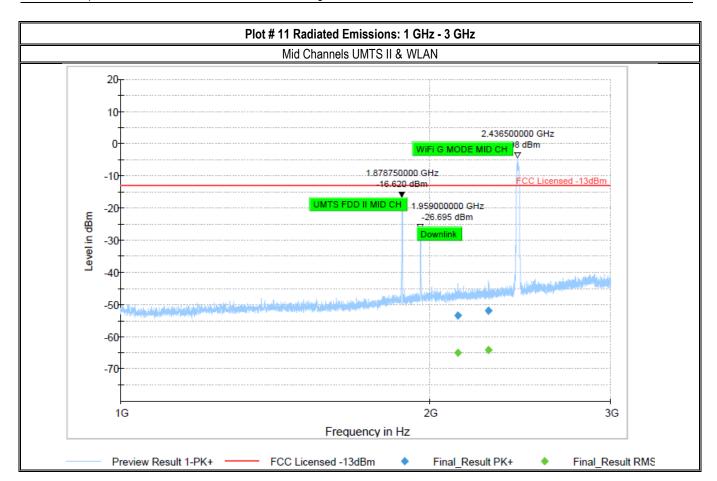
Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
36.69	_	-81.95		-	500.0	100.0	100.0	Н	-43.0	-74.0
36.69	-69.28	-	-13.00	56.28	500.0	100.0	100.0	H	-43.0	-74.0
183.11	-72.18	-	-13.00	59.18	500.0	100.0	177.0	٧	166.0	-73.7
183.11	-	-85.38	-	-	500.0	100.0	177.0	٧	166.0	-73.7
462.91	-50.57		-13.00	37.57	500.0	100.0	151.0	Н	173.0	-69.9
462.91		-63.37			500.0	100.0	151.0	Н	173.0	-69.9



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FCC ID: 2AQM7-36B



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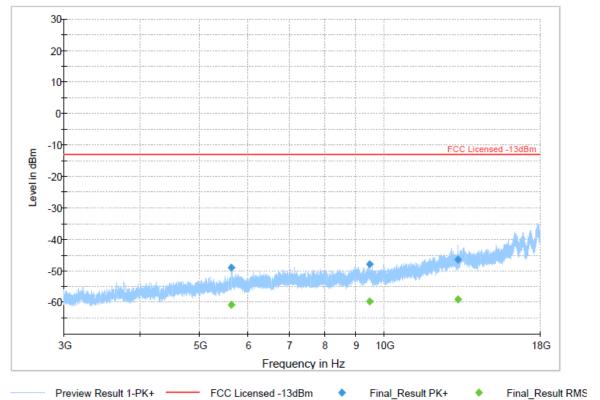


Plot # 12 Radiated Emissions: 3 GHz – 18 GHz

FCC ID: 2AQM7-36B

Mid Channels UMTS II & WLAN

	Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
ı	(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
	5641.00	-	-60.77	-	-	500.0	1000.0	175.0	H	154.0	-96.3
	5641.00	-48.99	-	-13.00	35.99	500.0	1000.0	175.0	H	154.0	-96.3
	9476.50		-59.76	-		500.0	1000.0	315.0	Н	63.0	-92.6
	9476.50	-47.99		-13.00	34.99	500.0	1000.0	315.0	Н	63.0	-92.6
	13220.50		-58.99			500.0	1000.0	230.0	V	239.0	-86.7
[13220.50	-46.38		-13.00	33.38	500.0	1000.0	230.0	V	239.0	-86.7



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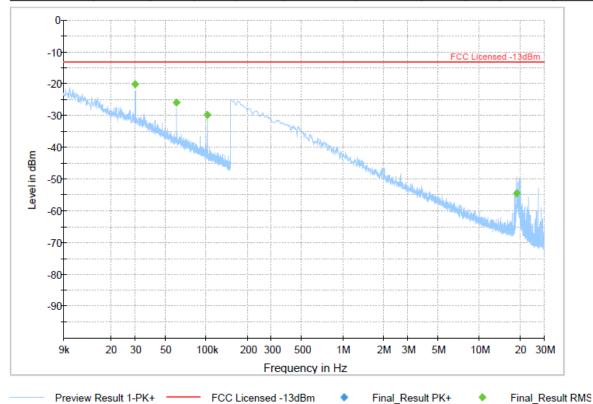


Plot # 13 Radiated Emissions: 9 kHz - 30 MHz

FCC ID: 2AQM7-36B

Mid Channels LTE 2 & WLAN

I	Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
	0.03	_	-20.22			500.0	9.0	100.0	Н	196.0	-73.3
	0.06		-25.95			500.0	9.0	100.0	Н	209.0	-76.2
	0.10		-29.75			500.0	9.0	100.0	V	185.0	-76.9
	18.92	-	-54.52			500.0	9.0	100.0	V	32.0	-78.7



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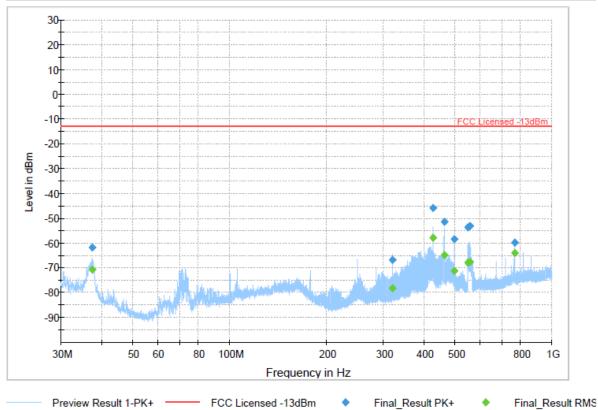


Plot # 14 Radiated Emissions: 30 MHz - 1 GHz

FCC ID: 2AQM7-36B

Mid Channels LTE 2 & WLAN

Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
37.52	-61.73	-	-13.00	48.73	500.0	120.0	100.0	V	58.0	-110.0
37.52		-70.66		-	500.0	120.0	100.0	V	58.0	-110.0
320.68		-78.21		-	500.0	120.0	100.0	Н	244.0	-108.8
320.68	-66.87	-	-13.00	53.87	500.0	120.0	100.0	Н	244.0	-108.8
427.68	-45.82		-13.00	32.82	500.0	120.0	107.0	Н	97.0	-107.2
427.68		-57.96	-		500.0	120.0	107.0	Н	97.0	-107.2
463.20	-51.34	-	-13.00	38.34	500.0	120.0	169.0	Н	261.0	-105.2
463.20		-64.78	-	-	500.0	120.0	169.0	Н	261.0	-105.2
498.80		-71.13	-	-	500.0	120.0	126.0	Н	170.0	-104.6
498.80	-58.42	-	-13.00	45.42	500.0	120.0	126.0	Н	170.0	-104.6
550.11	-53.66	-	-13.00	40.66	500.0	120.0	100.0	Н	158.0	-103.5
550.11		-67.86	-	-	500.0	120.0	100.0	Н	158.0	-103.5
558.09	-53.24		-13.00	40.24	500.0	120.0	100.0	Н	163.0	-103.5
558.09		-67.54			500.0	120.0	100.0	Н	163.0	-103.5
768.02	-59.91		-13.00	46.91	500.0	120.0	100.0	Н	95.0	-99.8
768.02		-64.15			500.0	120.0	100.0	Н	95.0	-99.8



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FCC ID: 2AQM7-36B

ISED ID: 24516-36B

Plot # 15 Radiated Emissions: 1 GHz - 3 GHz Mid Channels LTE 2 & WLAN 1.879500000 GHz 21.987 dBm 20 LTE B2 MID CH 10-2.433250000 GHz -6.394 dBm WiFi G MODE MID CH Level in dBm -20 -30 1.957750000 GHz -41.170 dBm -40 -60 1G 2G 3G Frequency in Hz Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RMS

Preview Result 1-PK+

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Final_Result RMS

FCC ID: 2AQM7-36B

Final_Result PK+

Plot # 16 Radiated Emissions: 3 GHz – 18GHz Mid Channels LTE 2 & WLAN Frequency (MHz) MaxPeak RMS Limit Bandwidth Pol Azimuth Margin Meas. Time Height Corr. (dBm) (dBm) (dBm) (kHz) (cm) (deg) (dB) 5639.25 5639.25 1000.0 1000.0 -96.3 -96.3 -43.45 500.0 183.0 H 226.0 183.0 H 34.42 -13.00 21.42 500.0 226.0 30 20-10 Level in dBm -20 -30 -40 -50 -60 5G 10G 3G 18G Frequency in Hz

FCC Licensed -13dBm

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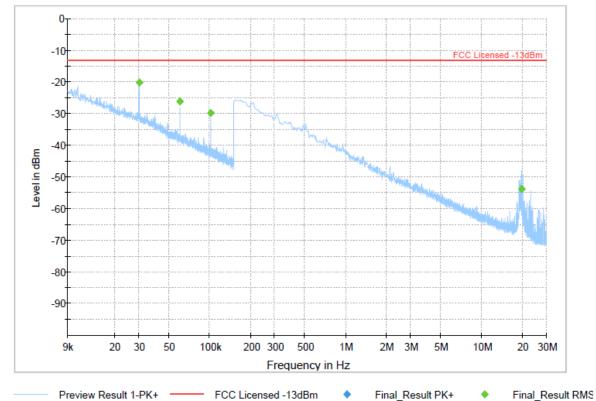


Plot # 17 Radiated Emissions: 9 kHz - 30 MHz

FCC ID: 2AQM7-36B

Mid Channels UMTS IV & WLAN

Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
0.03	-	-20.18		-	500.0	9.0	100.0	Н	90.0	-73.3
0.06		-26.17			500.0	9.0	100.0	Н	108.0	-76.2
0.10		-29.85			500.0	9.0	100.0	V	40.0	-76.9
19.71		-53.93			500.0	9.0	100.0	Н	305.0	-78.7



Preview Result 1-PK+

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Final_Result RMS

FCC ID: 2AQM7-36B

Final_Result PK+

Plot # 18 Radiated Emissions: 30 MHz - 1 GHz Mid Channels UMTS IV & WLAN Frequency MaxPeak RMS Limit Margin Meas. Time Bandwidth Height Azimuth Corr. (dBm) (dBm) (MHz) (dBm) (dB) (kHz) (cm) (dB) (ms) (deg) 463.15 -65.10 500.0 100.0 158.0 H 179.0 -69.9 463.15 37.90 500.0 100.0 158.0 H 179.0 -69.9 40 30 20 10 0 -10 FCC Licensed -13dBm -20 Level in dBm -30 -40 -50 -60 -70 -80 -90 100M 400 800 Frequency in Hz

FCC Licensed -13dBm

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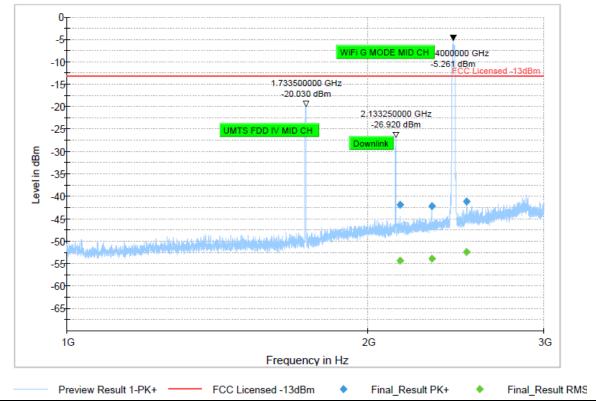


Plot # 19 Radiated Emissions: 1 GHz - 3 GHz

FCC ID: 2AQM7-36B

Mid Channels UMTS IV & WLAN

Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
2155.25	-	-54.41	-	-	500.0	1000.0	285.0	٧	50.0	-63.4
2155.25	-41.85	I	-13.00	28.85	500.0	1000.0	285.0	٧	50.0	-63.4
2316.50	-	-53.90	-	-	500.0	1000.0	231.0	H	325.0	-62.7
2316.50	-42.14	-	-13.00	29.14	500.0	1000.0	231.0	H	325.0	-62.7
2509.75	-	-52.45	-	-	500.0	1000.0	133.0	٧	279.0	-61.8
2509.75	-41.15	-	-13.00	28.15	500.0	1000.0	133.0	٧	279.0	-61.8

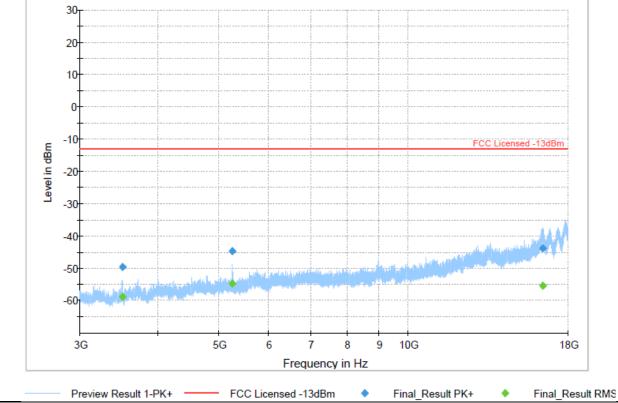


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Plot # 20 Radiated Emissions: 3 GHz - 18GHz Mid Channels UMTS IV & WLAN MaxPeak RMS Limit Margin Meas. Time Bandwidth Height Pol Azimuth Corr. Frequency (MHz) (dBm) (dBm) (dBm) (dB) (kHz) (deg) (dB) (ms) (cm) 3506.25 -58.82 500.0 1000.0 248.0 H 175.0 -102.2 3506.25 -49.56 -13.00 36.56 500.0 1000.0 248.0 H 175.0 -102.2 5254.75 54.68 500.0 1000.0 100.0 V 105.0 -97.2 -13.00 5254.75 -44.61 31.61 500.0 1000.0 100.0 V 105.0 -97.2 -55.42 500.0 1000.0 160.0 H 16411.75 323.0 -81.3 -43.73 -13.00 30.73 16411.75 500.0 1000.0 160.0 H 323.0 -81.3 30

FCC ID: 2AQM7-36B



Test Report #: EMC_KPTRK-030-22001_FCC_22_24_27 FCC ID: 2AQM7-36B

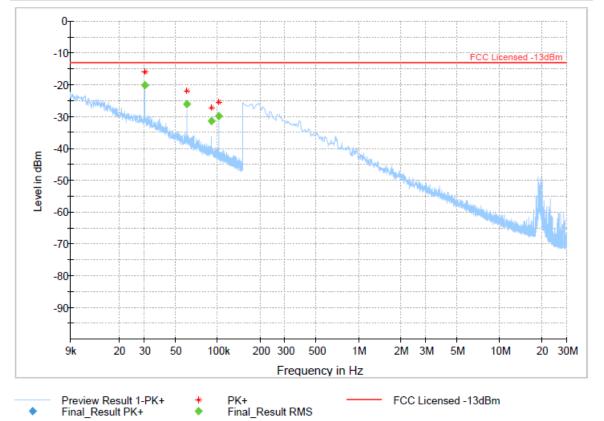
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Plot # 21 Radiated Emissions: 9 kHz - 30 MHz

Mid Channels LTE 4 & WLAN

Г	Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
	(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
	0.03	1	-20.13		-	500.0	9.0	100.0	Н	165.0	-73.3
	0.06		-26.11			500.0	9.0	100.0	Н	17.0	-76.2
	0.09		-31.44			500.0	9.0	100.0	Н	-53.0	-76.8
	0.10	-	-29.88			500.0	9.0	100.0	V	220.0	-76.9



Test Report #: EMC_KPTRK-030-22001_FCC_22_24_27 FCC ID: 2AQM7-36B

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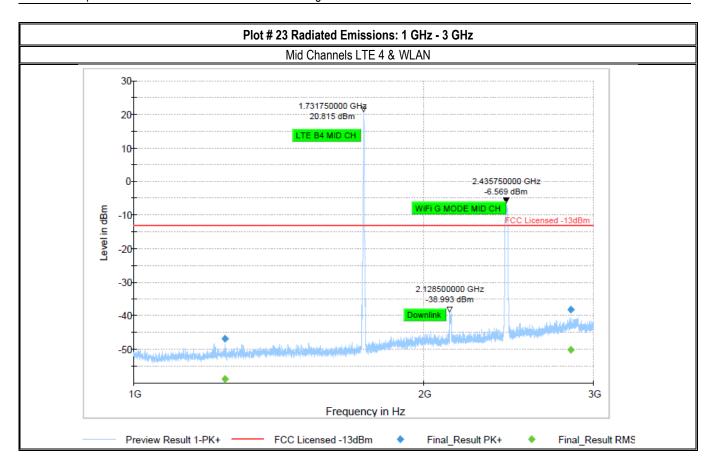


Plot # 22 Radiated Emissions: 30 MHz - 1 GHz Mid Channels LTE 4 & WLAN Frequency MaxPeak Margin Meas. Time Bandwidth Height Azimuth Corr. (MHz) (dBm) (dBm) (dB) (dB) (ms) (cm) (deg) 463.76 500.0 100.0 133.0 H 164.0 -69.9 463.76 -13.00 36.01 500.0 100.0 133.0 H 164.0 -69.9 49.01 40_T 30 20 10 0--10 Level in dBm -20 -30 -40 -50 -60 -70 -80 -90 30M 80 100M 200 300 400 500 800 50 Frequency in Hz Preview Result 1-PK+ FCC Licensed -13dBm Final_Result PK+ Final_Result RMS

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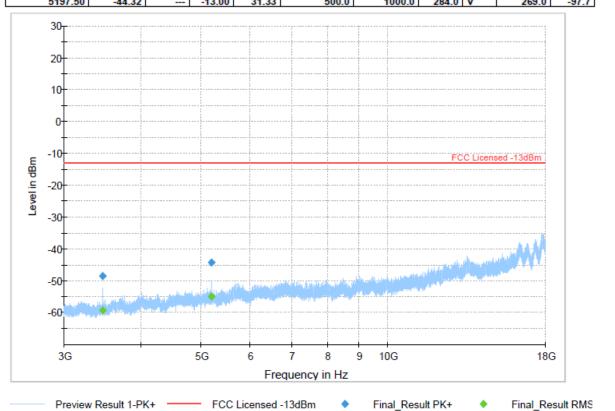


Plot # 24 Radiated Emissions: 3 GHz – 18GHz

FCC ID: 2AQM7-36B

Mid Channels LTE 4 & WLAN

ſ	Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
L	(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
	3463.75	-	-59.18			500.0	1000.0	134.0	Н	172.0	-102.2
	3463.75	-48.61		-13.00	35.61	500.0	1000.0	134.0	Н	172.0	-102.2
	5197.50		-54.90			500.0	1000.0	284.0	V	269.0	-97.7
	5197.50	-44.32		-13.00	31.33	500.0	1000.0	284.0	V	269.0	-97.7



Test Report #: EMC_KPTRK-030-22001_FCC_22_24_27 FCC ID: 2AQM7-36B

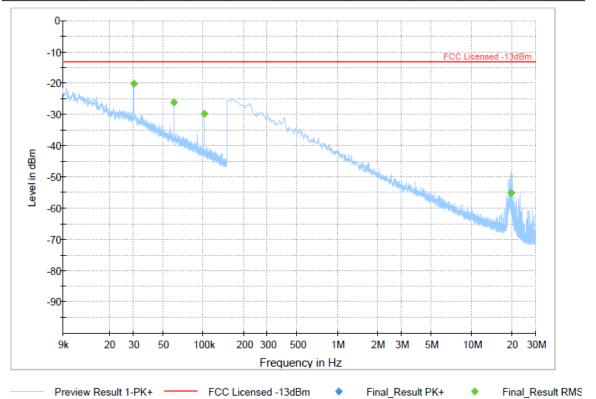
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Plot # 25 Radiated Emissions: 9 kHz - 30 MHz

Mid Channels LTE 12 & WLAN

	Frequency (MHz)	MaxPeak (dBm)	RMS (dBm)	Limit (dBm)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
-					(ub)						
	0.03		-20.19		-	500.0	9.0	100.0	H	-18.0	-73.3
	0.06	1	-26.07	-		500.0	9.0	100.0	Н	70.0	-76.2
	0.10	I	-29.91	-	-	500.0	9.0	100.0	٧	83.0	-76.9
	19.71	1	-55.21	-	-	500.0	9.0	100.0	V	194.0	-78.7



Preview Result 1-PK+

Date of Report

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FCC ID: 2AQM7-36B

Final_Result PK+



Final_Result RMS

Plot # 26 Radiated Emissions: 30 MHz - 1 GHz Mid Channels LTE 12 & WLAN Frequency MaxPeak Margin Bandwidth Height Azimuth RMS Meas. Time Corr. (MHz) (dBm) (dB) (dBm) (dBm) (dB) (ms) (cm) (deg) 463.66 -59.08 500.0 100.0 125.0 H 156.0 -69.9 463.66 -69.9 -13.00 35.81 500.0 156.0 -48.81 100.0 125.0 H 30 707.690500 MHz 20.892 dBm 20 10 0--10 FCC Licensed -13dBm -20 Level in dBm -30 734.220000 MHz -40 -45,344 dBm -50 -60 -70 -80 -90 30M 60 100M 200 300 400 500 800 1G Frequency in Hz

FCC Licensed -13dBm

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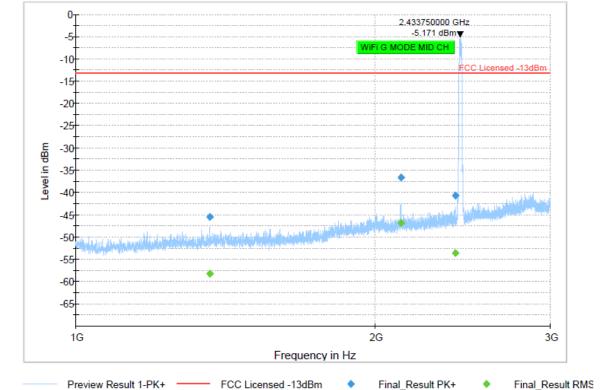


Plot # 27 Radiated Emissions: 1 GHz - 3 GHz

FCC ID: 2AQM7-36B

Mid Channels LTE 12 & WLAN

Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
1363.50		-58.26			500.0	1000.0	100.0	Н	45.0	-66.4
1363.50	-45.50	-	-13.00	32.50	500.0	1000.0	100.0	Н	45.0	-66.4
2122.25		-46.91			500.0	1000.0	125.0	Н	311.0	-63.4
2122.25	-36.67		-13.00	23.67	500.0	1000.0	125.0	Н	311.0	-63.4
2408.75		-53.64			500.0	1000.0	151.0	Н	338.0	-62.4
2408.75	-40.76		-13.00	27.76	500.0	1000.0	151.0	Н	338.0	-62.4



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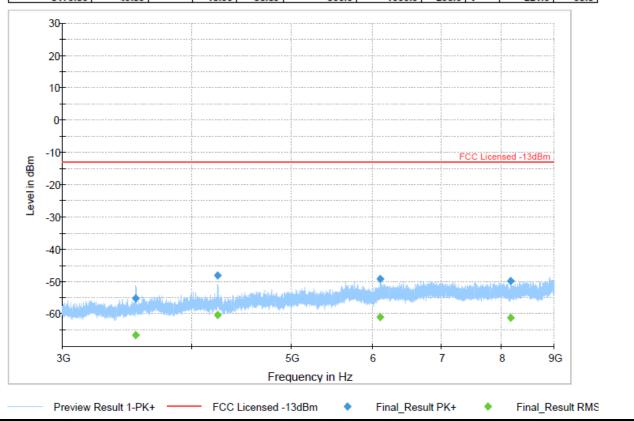


Plot # 28 Radiated Emissions: 3 GHz – 9GHz

FCC ID: 2AQM7-36B

Mid Channels LTE 12 & WLAN

Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
3537.20		-66.57			500.0	1000.0	201.0	Н	24.0	-102.1
3537.20	-55.25	-	-13.00	42.25	500.0	1000.0	201.0	Н	24.0	-102.1
4248.20	-	-60.34	1	-	500.0	1000.0	116.0	٧	334.0	-98.9
4248.20	-48.07	-	-13.00	35.07	500.0	1000.0	116.0	V	334.0	-98.9
6100.30	-	-61.01	-	-	500.0	1000.0	195.0	٧	132.0	-96.0
6100.30	-49.21	-	-13.00	36.21	500.0	1000.0	195.0	٧	132.0	-96.0
8170.80		-61.30			500.0	1000.0	296.0	V	221.0	-95.5
8170.80	-49.89		-13.00	36.89	500.0	1000.0	296.0	V	221.0	-95.5



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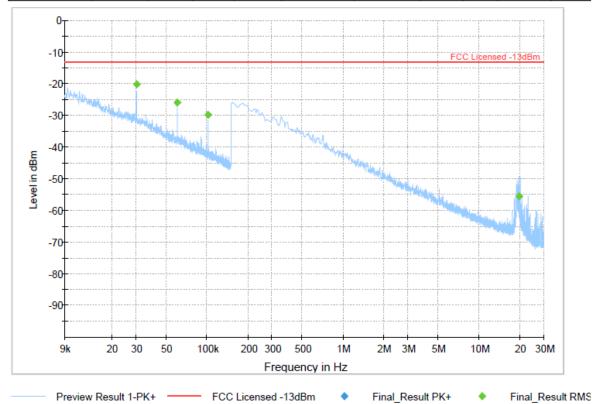


Plot # 29 Radiated Emissions: 9 kHz - 30 MHz

FCC ID: 2AQM7-36B

Mid Channels LTE 13 & WLAN

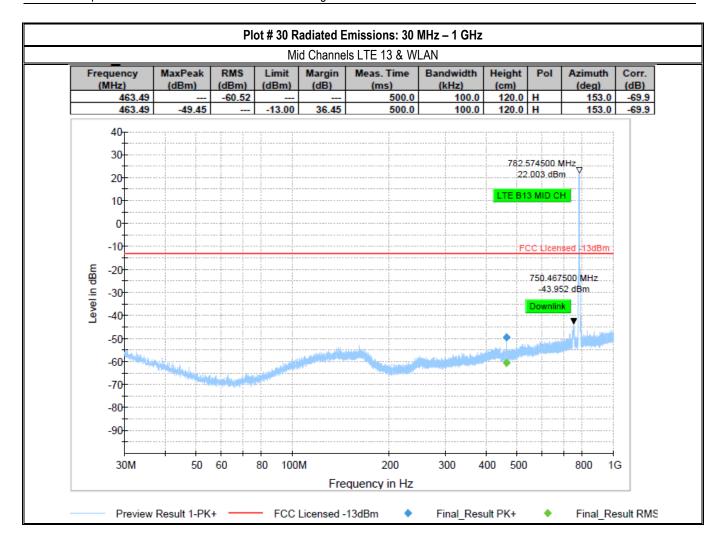
Frequency	MaxPeak	RMS	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(MHz)	(dBm)	(dBm)	(dBm)	(dB)	(ms)	(kHz)	(cm)		(deg)	(dB)
0.03		-20.18			500.0	9.0	100.0	Н	145.0	-73.3
0.06		-26.04		-	500.0	9.0	100.0	Н	33.0	-76.2
0.10		-29.82			500.0	9.0	100.0	V	3.0	-76.9
19.71	-	-55.64			500.0	9.0	100.0	Н	297.0	-78.7



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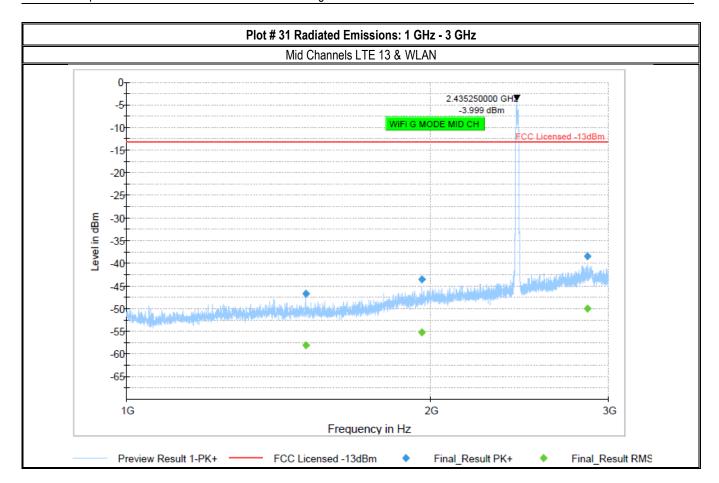
FCC ID: 2AQM7-36B



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Plot # 32 Radiated Emissions: 3 GHz - 9GHz Mid Channels LTE 13 & WLAN 30-20-Level in dBm -20 -30 -40 -50 3G 5G 6 8 9G Frequency in Hz Critical_Freqs PK+ Final_Result RMS Preview Result 1-PK+ Final_Result PK+ FCC Licensed -13dBm

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FCC ID: 2AQM7-36B



8 Test setup photo

Date of Report

Setup photos are included in supporting file name: "EMC_KPTRK-030-22001_Setup_Photos.pdf"

9 Test Equipment and Ancillaries Used For Testing

Equipment Name/Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
EMI Receiver	Rohde & Schwarz	ESW44	101715	3 Years	9/13/2021
Signal Analyzer	Rohde & Schwarz	FSV40	101022	3 Years	9/14/2021
Active Loop antenna	ETS Lindgren	6507	161344	3 Years	10/30/2020
Loop antenna	ETS Lindgren	6512	164698	3 Years	8/14/2020
Biconlog Antenna	AH systems	BiLA2G	569	3 years	12/1/2020
Horn Antenna	EMCO	3115	35111	3 years	9/30/2021
Horn Antenna	ETS Lindgren	3117-PA	169547	3 years	9/1/2020
Horn Antenna	ETS Lindgren	3116C-PA	169535	3 years	9/30/2020
Digital Thermometer	Control Company	36934-164	191872028	3 Years	10/20/202
Digital Barometer	VWR	10510-922	200236891	3 Years	4/13/2020

Note: Equipment used meets the measurement uncertainty requirements as required per applicable standards for 95% confidence levels. Calibration due dates, unless defined specifically, falls on the last day of the month. Items indicated "N/A" for cal status either do not specifically require calibration or is internally characterized before

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10 Revision History

Date	Report Name	Changes to report	Report prepared by
08-15-2022	EMC_KPTRK-030-22001_FCC_22_24_27	Initial Draft version	Kris Lazarov

<<The End>>