

# FCC / ISED Test Report

## FOR:

Juniper Systems, Inc.

#### **Model Name:**

AG3

## **Product Description:**

AG3 is an ultra-rugged handheld computer for field data collection.

FCC ID: VSF-AG3 IC ID: 7980A-AG3

## **Applied Rules and Standards:**

47 CFR Part 15.247 (DSS) RSS-247 Issue 2 (FHSs) & RSS-Gen Issue 5

**REPORT** #: EMC\_JUNIP-038-20001\_15.247\_BT\_DSS

**DATE: 2020-08-14** 



**A2LA Accredited** 

IC recognized # 3462B-1

#### CETECOM Inc.

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2020-08-14



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#### 1 Assessment

The following device was evaluated against the applicable criteria specified in FCC rules Parts 15.247 of Title 47 of the Code of Federal Regulations and the relevant ISED Canada standard RSS-247.

No deviations were ascertained.

Company	Description	Model #
Juniper Systems, Inc.	AG3 is an ultra-rugged handheld computer for field data collection.	AG3

## **Responsible for Testing Laboratory:**

		Cindy Li	Cinely Li
2020-08-14	Compliance	(EMC Lab Manager)	( maly 21
Date	Section	Name	Signature
•			

#### **Responsible for the Report:**

2020-08-14 Complia	1 0 /	Signatura
Date Section	on 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
EMC Lab Manager:	Cindy Li
Responsible Project Leader:	Sangeetha Sivaraman

#### 2.2 Identification of the Client

Applicant's Name:	Juniper Systems, Inc.
Street Address:	1132 W 1700 N
City/Zip Code	Logan, UT 84321
Country	USA

## 2.3 Identification of the Manufacturer

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



## 3 Equipment Under Test (EUT)

## 3.1 EUT Specifications

Model No:	AG3		
HW Version :	0.1		
SW Version :	7.1.2		
FCC-ID:	VSF-AG3		
IC-ID:	7980A-AG3		
PMN:	FL7502		
Product Description:	AG3 is an ultra-rugged handheld computer for field data collection.		
Frequency Range / number of channels:	Nominal band: 2400 MHz – 2483.5 MHz Center to center: 2402 MHz (ch 0) – 2480 MHz (ch 78), 79 Channels		
Type(s) of Modulation:	Bluetooth BR/EDR: GFSK, π /4 DQPSK, 8DPSK		
Modes of Operation:	Fixed Channel		
Module and Antenna Information as declared:	<ul> <li>Manufature: Silex</li> <li>Module name/number: SX-SDMAC-2832S+</li> <li>FCC/IC ID: N6C-SDMAC / 4908A-SDMAC</li> <li>Antenna gains: <ul> <li>2402 MHz: -0.11 dBi</li> <li>2442 MHz: 1.01 dBi</li> <li>2480 MHz: 2.28 dBi</li> </ul> </li> </ul>		
Max. declared output Powers:	Conducted Power 1.43 dBm		
Power Supply/ Rated Operating Voltage Range:	Vmin: 9.65 VDC/ Vnom: 12/24 VDC / Vmax: 30 VDC		
Operating Temperature Range	Low -30°C, Nominal 20°C, High 60°C		
Other Radios included in the device:	<ul> <li>★ WCDMA, LTE</li> <li>Manufature: Sierra Wireless</li> <li>Module name/number: WP7603</li> <li>FCC/IC ID: N7NWP76C / 2417C-WP76C</li> <li>★ WLAN, BLE</li> <li>Manufature: Silex</li> <li>Module name/number: SX-SDMAC-2832S+</li> <li>FCC/IC ID: N6C-SDMAC / 4908A-SDMAC</li> <li>★ GNSS/GPS</li> </ul>		

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<ul> <li>Manufature: u-blox AG</li> <li>Module name/number: NEO-M8N</li> <li>Sensus Panther Raduio</li> <li>Manufature: Sensus</li> <li>Module name/number: Panther</li> </ul>	

## 3.2 EUT Sample details

EUT#	Serial Number	HW Version	SW Version	Notes/Comments
1	272323	0.1	7.1.2	Radiated Emissions

## 3.3 Accessory Equipment details

AE#	Туре	Manufacture	Model	P/N
1	AC/DC Adapter	Phihong Technology Co., Ltd	PSAA20R-120L6	164691695

## 3.4 Support Equipment

SE#	Description	
1	Interface card (control board).	
2	Laptop, Dell Latitude E6530	
3	Mouse	
4	Serial cable and serial-to-USB adapter	
5	USB cable	
6	USB cable and USB-to-Ethernet adapter	

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### 3.5 Test Sample Configuration

EUT Set-up #	Combination of AE used for test set up	Comments
1	EUT#1 + AE#1	The radio of the EUT was configured to Bluetooth (DH5) low, mid and high channel with highest possible duty cycle and maximum output power using QCARCT provided by client that is not available to the end user. RIU radio [ALT.] Channel 68 (952.41875MHz) is co-transmitting simultaneously using Panther RIU/LPL Hardware Protocol Application provided by client that is not available to the end user. For radiated measurements, the internal antenna was connected.

#### 3.6 Justification for Worst Case Mode of Operation

During the testing process, the EUT was tested with transmitter sets on low, mid and high channels with the highest possible duty cycle and maximum output power, and co-transmitting with RIU radio on [ALT.] Channel 68 (952.41875MHz).

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.

## 4 Subject of Investigation

The objective of the measurements done by CETECOM Inc. was to assess the performance of the EUT according to the relevant requirements specified in FCC rules Part 15.247 of Title 47 of the Code of Federal Regulations and Radio Standard Specification RSS-247 Issue 2 of ISED Canada.

Testing procedures are based on ANSI C63.10:2013 including section 7.8 for FHSS systems.

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#### 5 **Measurement Results Summary**

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	NA¹	NP¹	Result
§15.247(b)(1) RSS-247 5.4(2)	Maximum Peak Conducted Output Power	Nominal	N/A¹				Note 1 Note 2
§15.247(d) RSS-247 5.5 RSS-Gen 8.10	Band Edge Compliance	Nominal	N/A¹			•	Note 1 Note 2
§15.247(a)(1) RSS-247 5.1(1)	Spectrum Bandwidth	Nominal	N/A¹				Note 1 Note 2
§15.247(a)(1) RSS-247 5.1(1)	Carrier Frequency Separation	Nominal	N/A¹			•	Note 1 Note 2
§15.247(a)(1) RSS-247 5.1(4)	Number of Hopping Channels	Nominal	N/A¹			•	Note 1 Note 2
§15.247(a)(1)(iii) RSS-247 5.1(4)	Time of occupancy	Nominal	N/A¹				Note 1 Note 2
§15.247(d) §15.209 (a) RSS-Gen 6.13	TX Spurious emissions-Radiated	Nominal	GFSK DH5				Complies
§15.207(a) RSS-Gen 8.8	AC Conducted Emissions	Nominal	GFSK DH5	•			Complies

Note1: NA= Not Applicable; NP= Not Performed.
Note2: Leveraged from module certification FCC ID: N6C-SDMAC

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#### 6 Measurements

#### 6.1 Measurement Uncertainty

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

#### Radiated measurement

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

Conducted measurement

150 kHz to 30 MHz  $\pm 0.7$  dB (LISN)

RF conducted measurement ±0.5 dB

#### **6.2 Environmental Conditions During Testing:**

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

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

#### 6.3 Dates of Testing:

05/26/2020 -- 05/29/2020

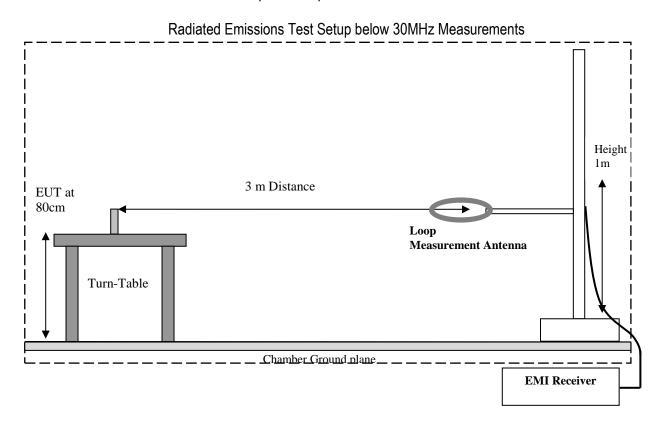


#### 7 Measurement Procedures

#### 7.1 Radiated Measurement

The radiated measurement is performed according to: ANSI C63.10 (2013)

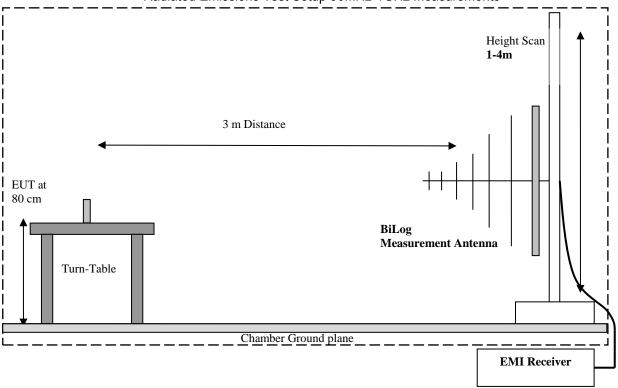
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and both antenna polarizations. This procedure exceeds the requirement of the above standards to 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.

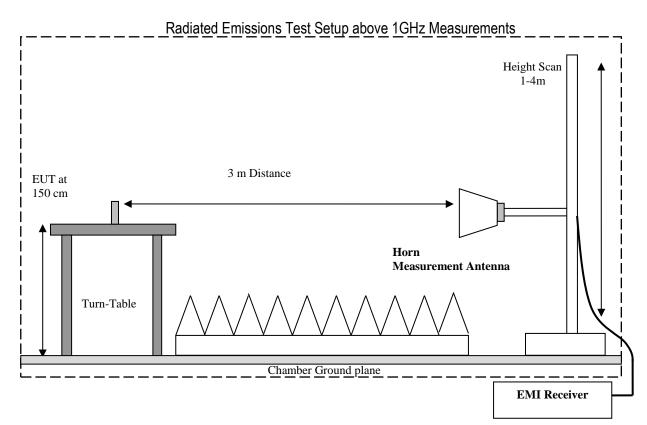


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#### Radiated Emissions Test Setup 30MHz-1GHz Measurements





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### 7.1.1 Sample Calculations for Field Strength Measurements

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

- 1. Measured reading in dBμV
- 2. Cable Loss between the receiving antenna and SA in dB and
- 3. 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 (MHz)	Measured SA (dBµV)	Cable Loss (dB)	Antenna Factor Correction (dB)	Field Strength Result (dBµV/m)
1000	80.5	3.5	14	98.0



#### 8 Test Result Data

#### 8.1 Transmitter Spurious Emissions and Restricted Bands

#### 8.1.1 Measurement according to ANSI C63.10

#### **Analyzer Settings:**

- Frequency = 9 KHz 30 MHz
- RBW = 9 KHz
- Detector = Peak
- Frequency = 30 MHz 1 GHz
- Detector = Peak / Quasi-Peak
- RBW = 120 KHz (<1 GHz)
- Frequency > 1 GHz
- Detector = Peak / Average
- RBW = 1MHz

Plots reported here represent the worst case emissions for horizontal and vertical antenna polarizations and for three orientations of the EUT. Unless mentioned otherwise, the emissions outside the limit lines in the plots are from the transmit signal.

#### 8.1.2 Limits: FCC 15.247(d)/15.209(a)

• Except as shown in CFR 47 Part 15.205 paragraph (d), only spurious emissions are permitted in any of the frequency bands listed below

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	<u> 156.52475-156.52525</u>	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	Above 38.6
13.36-13.41			

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• Radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

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PEAK LIMIT= 74dBµV/m

• AVG. LIMIT= 54dBµV/m

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

Radiated spurious emissions shall be measured for the transmit frequencies, transmit power, and data rate for the lowest, middle and highest channel in each frequency band of operation and for the highest gain antenna for each antenna type, and using the appropriate parameters and test requirements described in 5.4. The highest (or worst-case) data rate shall be recorded for each measurement.

For testing at distance other than the specified in the standard, the limit conversion is calculated by using 40 dB/decade extrapolation as follow:

Conversion factor (CF) =  $40 \log (D/d) = 40 \log (300 \text{ m} / 3 \text{ m}) = 80 \text{ dB}$ 

#### 8.1.3 Test conditions and setup:

Ambient Temperature EUT Set-Up #		EUT operating mode	Power Input
23° C	1	DH5 fixed channel	110 VAC

#### 8.1.4 Measurement result:

Plot #	Channel #	Scan Frequency	Limit	Result
1-3	Low	30 MHz – 18 GHz	See section 8.1.2	Pass
4-8	Mid	9 kHz – 26 GHz	See section 8.1.2	Pass
9-12	High	30 MHz – 18 GHz	See section 8.1.2	Pass

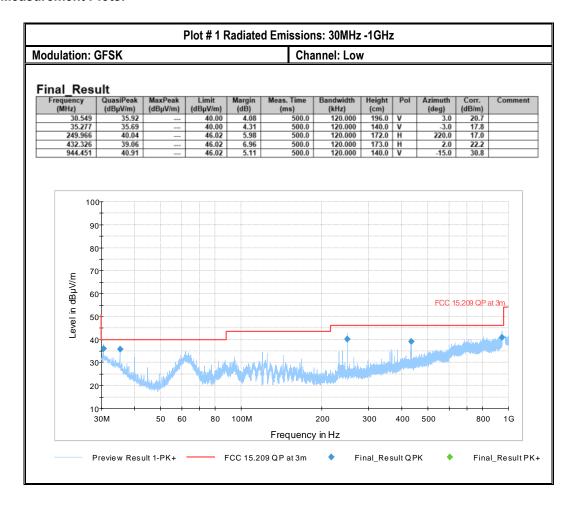
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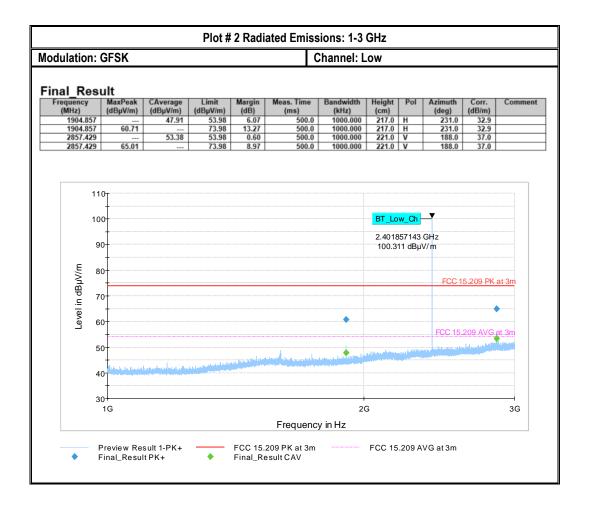
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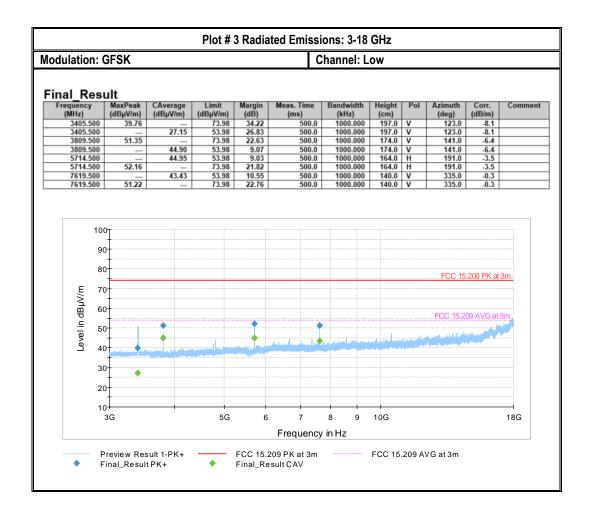
#### 8.1.5 Measurement Plots:



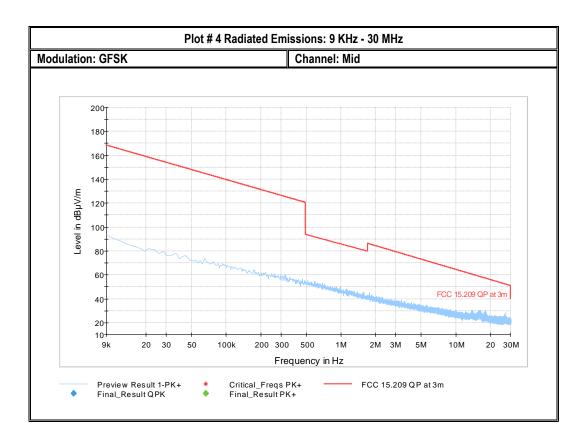






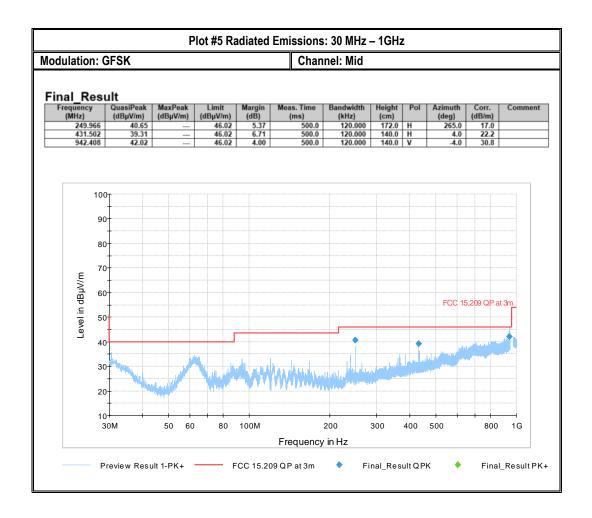






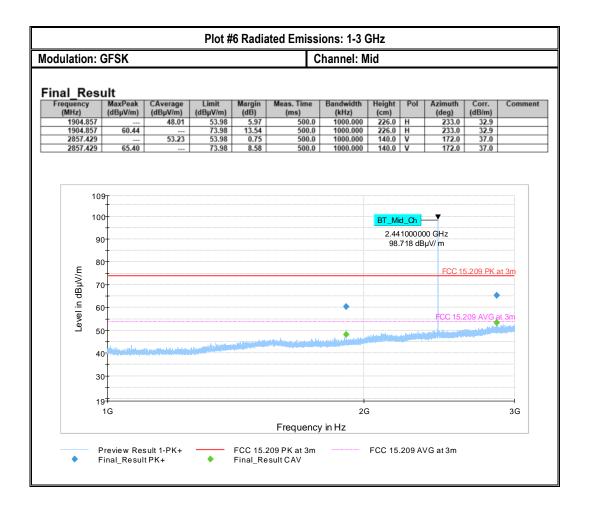
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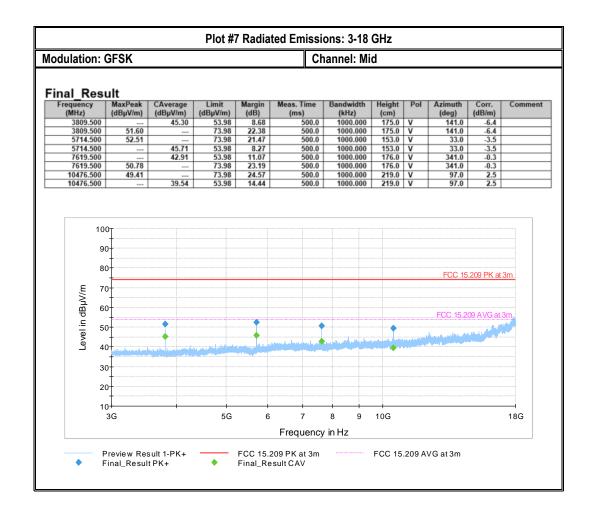


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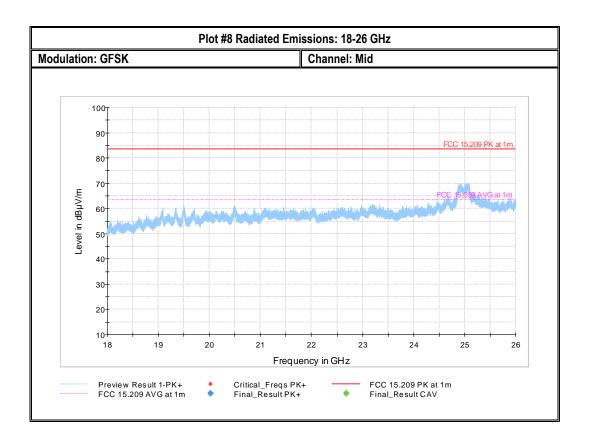






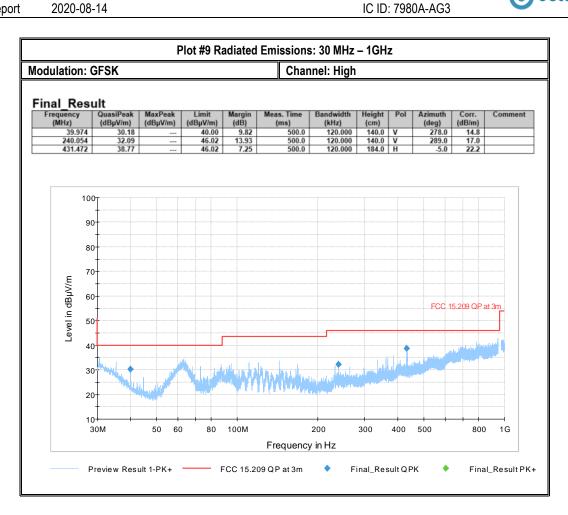






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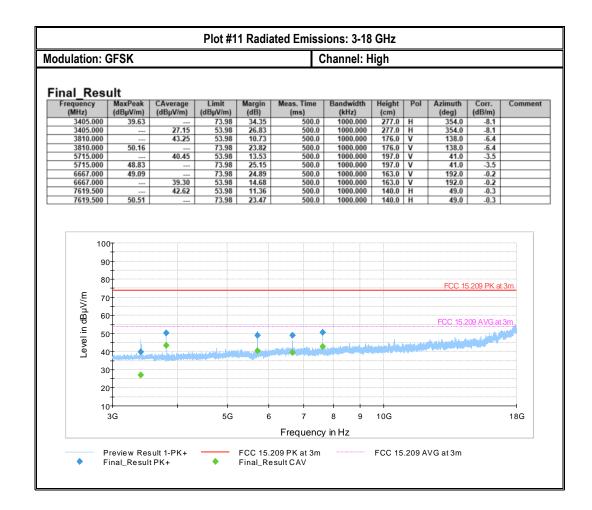
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Plot # 10 Radiated Emissions: 1-3 GHz Modulation: GFSK Channel: High Final\_Result MaxPeak CAverage (dBμV/m) (dBμV/m) 45.54 Margin (dB) 8.44 15.65 13.76 5.97 8.58 0.16 Height (cm)
260.0 V
260.0 V
227.0 H
227.0 H
140.0 V Limit (dBµV/m) 53.98 73.98 73.98 Frequency (MHz) 1595.429 1595.429 1904.857 Corr. (dB/m) 32.5 32.5 32.9 (kHz) 1000.000 1000.000 1000.000 (deg) 174.0 174.0 230.0 (ms) 500.0 500.0 500.0 48.01 1904.857 2857.286 2857.286 53.98 73.98 53.98 500.0 500.0 500.0 1000.000 1000.000 1000.000 230.0 181.0 181.0 32.9 37.0 37.0 65.40 53.82 110<sub>T</sub> BT\_High\_Ch 100 2.480142857 GHz 102.961 dBµV/m 90-Level in dBµV/m 80-CC 15.209 PK at 3m 70-60-50 40 30-1G 2G 3G Frequency in Hz FCC 15.209 PK at 3m Preview Result 1-PK+ FCC 15.209 AVG at 3m Final\_Result PK+  $Final\_Result\,CAV$ 





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#### 8.2 AC Power Line Conducted Emissions

### 8.2.1 Measurement according to ANSI C63.10 (2013)

Analyzer Settings:

- RBW = 9 KHz (CISPR Bandwidth)
- Pre-scan Detector = Peak / Average for
- Final Measurements Detector = Quasi-Peak / Average

#### 8.2.2 Limits: FCC 15.207 & RSS-Gen 8.8

(a) Except as shown in paragraphs (b) and (c) of this section of the CFR, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table (1), as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between frequency ranges.

Fraguency of amission (MHz)	Conducted limit (dBμV)			
Frequency of emission (MHz)	Quasi-peak	Average		
0.15–0.5	66 to 56*	56 to 46*		
0.5–5	56	46		
5–30	60	50		

<sup>\*</sup>Decreases with the logarithm of the frequency.

#### 8.2.3 Test conditions and setup:

Ambient Temperature (C)	EUT Set-Up #	EUT operating mode	Power line (L1, L2, L3, N)	Power Input
22	1	GFSK continuous fixed channel	Line & Neutral	110 V / 60 Hz

#### 8.2.4 Measurement Result:

Plot #	Port	EUT Set-Up#	EUT operating mode	Scan Frequency	Limit	Result
1	AC Mains	1	GFSK continuous fixed channel	150 kHz – 30 MHz	See section 8.8.2	Pass

#### 8.2.5 Measurement Plots:

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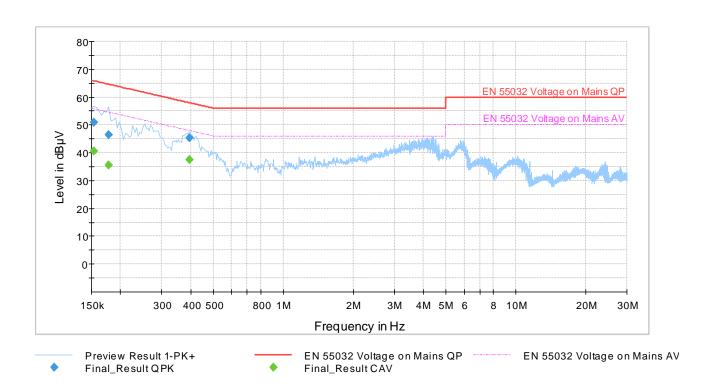


#### Plot #1

Disclaimer: Any measurement data within 2dB from the limit line is conditional PASS/FAIL due to measurement uncertainty considerations.

## Final\_Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)	Comment
0.154		40.59	55.78	15.19	500.0	9.000	L1	GND	10.7	
0.154	50.94		65.78	14.85	500.0	9.000	L1	GND	10.7	
0.178	46.38		64.58	18.20	500.0	9.000	N	GND	10.5	
0.178		35.59	54.58	18.99	500.0	9.000	N	GND	10.5	
0.394	45.32		57.98	12.66	500.0	9.000	L1	GND	10.3	
0.394		37.53	47.98	10.45	500.0	9.000	L1	GND	10.3	



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### 9 <u>Test setup photos</u>

Setup photos are included in supporting file name: "EMC\_JUNIP-038-20001\_Setup\_Photos.pdf"

## 10 Test Equipment And Ancillaries Used For Testing

Equipment Type	Manufacturer	Model	Serial #	Calibration Cycle	Last Calibration Date
PASSIVE LOOP ANTENNA	ETS.LINDGREN	6507	00161344	3 YEARS	10/26/2017
BILOG ANTENNA	ETS.LINDGREN	3142	00166067	3 YEARS	03/12/2020
HORN ANTENNA	ETS.LINDGREN	3115	00035111	3 YEARS	04/17/2019
HORN ANTENNA	ETS.LINDGREN	3117	00215984	3 YEARS	01/26/2018
HORN ANTENNA	ETS.LINDGREN	3116	00070497	3 YEARS	10/31/2017
SIGNAL ANALYZER	R&S	FSU26	200065	3 YEARS	07/16/2019
SIGNAL ANALAYZER	R&S	FSV 40	101022	3 YEARS	07/15/2019
TEST RECEIVER	R&S	ESU.EMI	100256	3 YEARS	07/16/2019
COMPACT DIGITAL BAROMETER	CONTROL COMPANY	35519-055	91119547	3 YEARS	06/20/2017
DIGITAL THRMOMETER	CONTROL COMPANY	36934-164	181230565	2 YEARS	01/10/2019
LINE IMPEDANCE STABILIZATION NETWORK	FCC	FCC-LISN-50-25-2-08	08014	3 YEARS	07/19/2019

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.

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2020-08-14

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## 11 Revision History

Date	Report Name	Changes to report	Report prepared by
2020-08-14	EMC_JUNIP-038-20001_15.247_BT_DSS	Initial Version	Yuchan Lu

<<The End>>