

FCC / ISED Test Report

For: Juniper Systems

> Model: MS3

Product Description: Ruggedized handheld tablet for field data collection.

Contains FCC ID: N7NEM7455; IC ID: 2417C-EM7455; FCC ID: VSF30805; IC ID: 7980A-30805; FCC ID: VSF25589; IC ID: 7980A-25589; FCC ID: VSF26593; IC ID: 7980A-26593; FCC ID: FIH76007, IC ID: 1548A-76007; FCC ID: VSF27065 IC ID: 7980A-27065

Applied Rules and Standards: 47 CFR Part 15.407 (NII) & 5 GHz (UNII) RSS-247 Issue 2 (DTSs) & (LE-LAN), and RSS-Gen Issue 5

REPORT #: EMC_JUNIP-042-22001_FCC_15.407_UNII

DATE: 2022-05-31



A2LA Accredited

IC recognized # 3462B-1

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1 <u>Assessment</u>

The following device was evaluated against the applicable criteria specified in FCC rules Parts 15.407 of Title 47 of the Code of Federal Regulations and the relevant ISED Canada standard RSS-247.

No deviations were ascertained.

ſ	Company	Description	Model
	Juniper Systems	Ruggedized handheld tablet for field data collection.	MS3

Responsible for Testing Laboratory:

Kevin Wang			
2022-05-31	Compliance	(EMC Lab Manager)	
Date	Section	Name	Signature
Duto	Conton	Namo	orginatare

Responsible for the Report:

		Cheng Song	
2022-05-31	Compliance	(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

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EMC Lab Manager:	Kevin Wang
Responsible Project Leader:	Sangeetha Sivaraman

2.2 Identification of the Client

Client's Name:	Juniper Systems
Street Address:	1132 West 1700 North
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	
Country	



3 Equipment Under Test (EUT)

3.1 EUT Specifications

Model:	MS3		
HW Version :	Rev 09		
SW Version :	22089		
Contains FCC-ID :	N7NEM7455; VSF30805; VSF25589; VSF26593; FIH76007; VSF27065		
Contains IC-ID:	2417C-EM7455; 7980A-30805; 7980A-25589; 7980A-26593; 1548A- 76007; 7980A-27065		
PMN:	Juniper Mesa 3 Rugged Tablet Computers		
Product Description:	Ruggedized handheld tablet for field data collection.		
Radio Information:	 Cellular: Module: Sierra Wireless EM7455 (FCC ID: N7NEM7455; IC ID: 2417C-EM7455) Cat-6 LTE Bands 1, 2, 3, 4, 5, 7, 8, 12, 13, 20, 25, 26, 29, 41 UMTS Bands I, II, III, IV, V, VIII WiFi / Bluetooth: Module: Intel 9260D2WL (FCC ID: VSF30805; IC ID: 7980A-30805) Technologies: 802.11a/b/g/n/ac; Bluetooth LE (v5.1) GNSS: Module: u-blox NEO-M8N, NEO-M8T Module: ThingMagic M6e-Nano (Juniper Systems FCC ID: VSF25589; IC ID: 7980A-25589) [FCC ID: QV5MERCURY6EN; IC ID: 5407A-MERCURY6EN] Frequency of Operation: 917.4-927.2 MHz; 50 channels Micro RFID Radio: Module: ThingMagic M6e-Micro (Juniper Systems FCC ID: VSF26593; IC ID: 7980A-26593) [FCC ID: QV5MERCURY6E-M; IC ID: 5407A-MERCURY6EN] Frequency of Operation: 917.5-922.5 MHz; 50 channels Micro RFID Radio: Module: ThingMagic M6e-Micro (Juniper Systems FCC ID: VSF26593; IC ID: 7980A-26593) [FCC ID: QV5MERCURY6E-M; IC ID: 5407A-MERCURY6EM] Frequency of Operation: 917.5-922.5 MHz; 50 channels Module: TransCore 76007 (FCC ID: FIH76007, ISED ID: 1548A-76007) Frequency of Operation: 902.75-927.25 MHz		



	Bluetooth (Extended Range):
	 Module: Silicon Labs WT41u-E (FCC ID: QOQWT41U; IC ID: 5123A-WT41U) [Juniper Systems FCC ID: VSF27065 IC ID: 7980A-27065]
	 Technologies: Bluetooth BDR/EDR v2.1
Vehicular:	No
Power Supply/ Rated Operating Voltage Range:	Low 11 VDC, Nominal 12 VDC, High 15 VDC
Operating Temperature Range	Low -20 °C, High 50 °C
Sample Revision	□Prototype Unit; □Production Unit; ■Pre-Production

3.2 EUT Sample details

EUT #	Model	HW Version	SW Version	Notes/Comments
1	MS3	Rev 09	22089	

3.3 Accessory Equipment (AE) details

AE #	Туре	Model	Manufacturer	Serial Number
1	AC / DC adapter	PSAA30R-120	PHIHONG	NA

3.4 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 a fixed channel transmission with highest possible duty cycle using software that is not available to the end user. The internal antenna was connected. The EUT was connected to the AC mains through an AC / DC adapter.



3.5 Mode of Operation

Operation Mode	Radios	Comments
	WLAN 5G	During the testing process, the EUT was tested with
	802.11n20 HT8	transmitter sets on 802.11n low, mid and high channels, and
0n 1	UNII-1	highest possible duty cycle. For radiated measurements, all
Op. 1	UNII-2A	data in this report shows the worst case be-tween horizontal
	UNII-2C	and vertical antenna polarizations and for all orientations of
	UNII-3	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 15.407 of Title 47 of the Code of Federal Regulations and Radio Standard Specification RSS-247 of ISED Canada.

5 Measurement Results Summary

Test Specification	Test Case	Temperature and Voltage Conditions	Mode	Pass	NA	NP	Result
§15.407(e) RSS-247 6.2.4.1	Emission Bandwidth	Nominal					Note 1
§15.407(a) RSS-247 6	Power Spectral Density	Nominal					Note 1
§15.407(a) RSS-247 6	Maximum Output Power	Nominal					Note 1
§15.407; 15.205 RSS-247 6; RSS-Gen 8.10	Band Edge Compliance	Nominal					Note 1
§15.407(b); §15.209; 15.205 RSS-247 6; RSS-Gen 8.9; 8.10	Radiated TX Spurious Emissions	Nominal	Op. 1				Complies
§15.207(a) RSS Gen 8.8	AC Conducted Emissions	Nominal					Note 1

NA= Not Applicable; NP= Not Performed.

Note 1: Leveraged from module certification report under FCC ID: PD99260NG.



6 Measurement Uncertainty

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

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

According to TR 102 273 a multiplicative propagation of error is assumed for RF measurement systems. For this reason the RMS method is applied to dB values and not to linear values as appropriate for additive propagation of error. Also used: http://physics.nist.gov/cuu/Uncertainty/typeb.html. The above calculated uncertainties apply to direct application of the Substitution method. The Substitution method is always used when the EUT comes closer than 3 dB to the limit.

6.1 Environmental Conditions During Testing:

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

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

6.2 Dates of Testing:

04/12/2022 - 04/26/2022

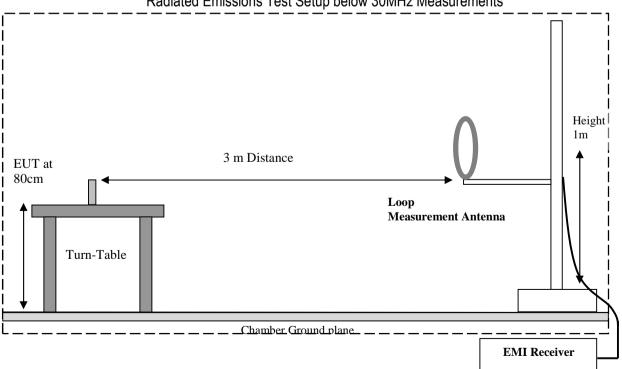


7 <u>Measurement Procedures</u>

7.1 Radiated Measurement

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

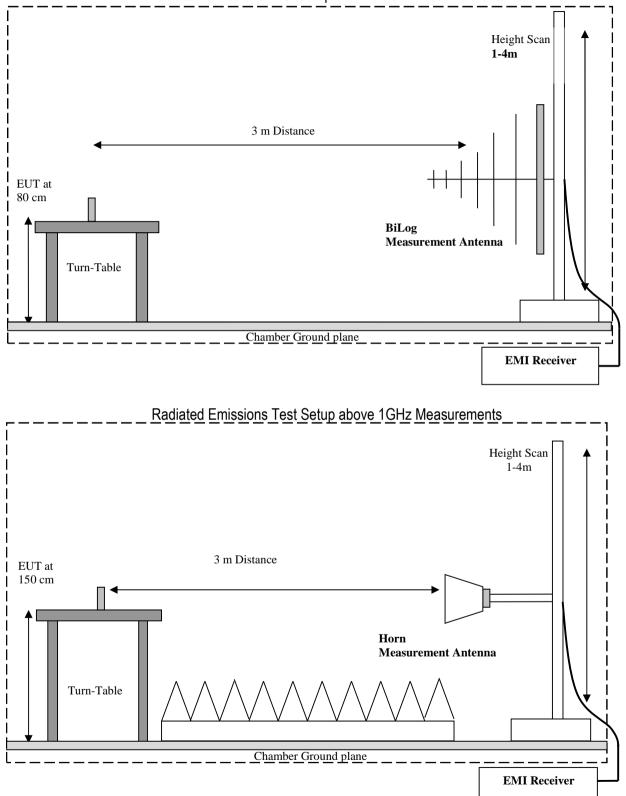
- The exploratory measurement is accomplished by running a matrix of 16 sweeps over the required frequency
 range with R&S Test-SW EMC32 for 4 positions of the turntable, two orthogonal positions of the EUT and
 both antenna polarizations. This procedure exceeds the requirement of the above standards to cover the 3
 orthogonal axis of the EUT. A max peak detector is utilized during the exploratory measurement. The TestSW creates an overall maximum trace for all 12 sweeps and saves the settings for each point of this trace.
 The maximum trace is part of the test report.
- The 10 highest emissions are selected with an automatic algorithm of EMC32 searching for peaks in the noise floor and ensuring that broadband signals are not selected multiple times.
- The maxima are then put through the final measurement and again maximized in a 90deg range of the turntable, fine search in frequency domain and height scan between 1m and 4m.
- The above procedure is repeated for all possible ways of power supply to EUT and for all supported modulations.
- In case there are no emissions above noise floor level only the maximum trace is reported as described above.
- The results are split up into up to 4 frequency ranges due to antenna bandwidth restrictions. A magnetic loop
 is used from 9 kHz to 30 MHz, a Biconilog antenna is used from 30 MHz to 1 GHz, and two different horn
 antennas are used to cover frequencies up to 40 GHz.



Radiated Emissions Test Setup below 30MHz Measurements









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 $dB\mu V$
- 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 μ V/m) = Measured Value on SA (dB μ 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

7.2 Power Line Conducted Measurement Procedure

AC Power Line conducted emissions measurements performed according to: ANSI C63.4 (2014)

7.3 RF Conducted Measurement Procedure

Testing procedures are based on 558074 D01 15.247 Meas Guidance v05r02 – "GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES" - April 2, 2019, by the Federal Communications Commission, Office of Engineering and Technology, Laboratory Division.



- Connect the equipment as shown in the above diagram.
- Adjust the settings of the SA (Rohde-Schwarz Spectrum Analyzer) to connect the EUT at the required mode of test.
- Measurements are to be performed with the EUT set to the low, middle and high channels and for worst case modulation schemes.



8 <u>Test Result Data</u>

- 8.1 Radiated Transmitter Spurious Emissions
- 8.1.1 Measurement according to ANSI C63.10 (2013)

Spectrum Analyzer Settings:

- Frequency = 9 KHz 30 MHz
- RBW = 9 KHz
- Detector: Peak
- Frequency = 30 MHz 1 GHz
- Detector = Peak / Quasi-Peak
- RBW= 120 KHz (<1GHz)
- Frequency > 1 GHz
- Detector = Peak / Average
- RBW = 1 MHz
- 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.
- The highest (or worst-case) data rate shall be recorded for each measurement.
- For testing frequencies below 30 MHz at distance other than the specified in the standard, the limit conversion is calculated by using the FCC materials for the ANSI 63 committee issued on January, 27 1991.

8.1.2 Limits:

FCC §15.407

- Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.
- The provisions of §15.205 apply to intentional radiators operating under this section.



FCC §15.209 & RSS-Gen 8.9

• Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency of emission (MHz)	Field strength (µV/m)	Measurement Distance (m)	Field strength @ 3m (dBµV/m)
0.009–0.490	2400/F(kHz) /	300	-
0.490–1.705	24000/F(kHz) /	30	-
1.705–30.0	30 / (29.5)	30	-
30–88	100	3	40 dBµV/m
88–216	150	3	43.5 dBµV/m
216–960	200	3	46 dBµV/m
Above 960	500	3	54 dBµV/m

FCC §15.205 & RSS-Gen 8.10

• Except as shown in paragraph (d) of this section, 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	156.52475-156.52525	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			

• 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)).

*PEAK LIMIT= 74 dBµV/m *AVG. LIMIT= 54 dBµV/m



8.1.3 Test conditions and setup:

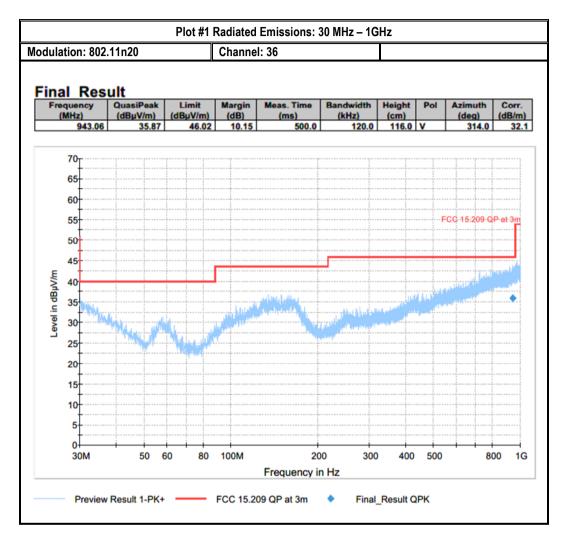
ſ	Ambient Temperature	EUT Set-Up #	EUT operating mode	Power Input
	22° C	1	Op. 1	120 VAC

8.1.4 Measurement result:

Plot #	Channel #	Scan Frequency	Limit	Result
1-3	36	30 MHz – 18 GHz	See section 8.1.2	Pass
4-8	40	9 kHz – 40 GHz	See section 8.1.2	Pass
9-11	48	30 MHz – 18 GHz	See section 8.1.2	Pass
12-14	52	30 MHz – 18 GHz	See section 8.1.2	Pass
15-19	56	9 kHz – 40 GHz	See section 8.1.2	Pass
20-22	64	30 MHz – 18 GHz	See section 8.1.2	Pass
23-25	100	30 MHz – 18 GHz	See section 8.1.2	Pass
26-30	120	9 kHz – 40 GHz	See section 8.1.2	Pass
31-33	140	30 MHz – 18 GHz	See section 8.1.2	Pass
34-36	149	30 MHz – 18 GHz	See section 8.1.2	Pass
37-41	157	9 kHz – 40 GHz	See section 8.1.2	Pass
42-44	165	30 MHz – 18 GHz	See section 8.1.2	Pass



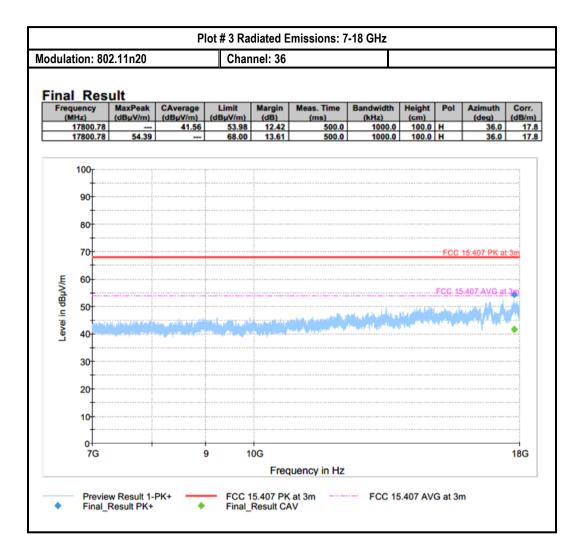
8.1.5 Measurement Plots:



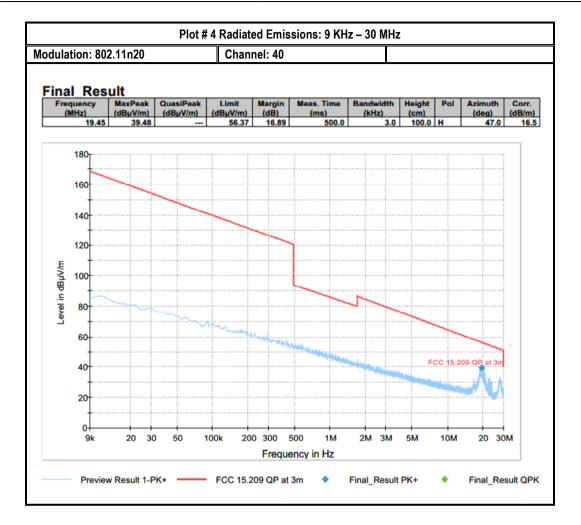


	I Res	2.11n20 ult			nnel: 36)						
Freq	uency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.	1
(N	MHz) 3477.00	(dBµV/m) 45.46	(dBµV/m)	(dBµV/m) 68.00	(dB) 22.54	(ms) 500.0	(kHz) 1000.0	(cm) 263.0	v	(deg) 116.0	(dB/m) 11.0	4.
	3477.00	43.40	32.67	53.98	21.31	500.0	1000.0	263.0		116.0	11.0	
	5817.75		45.66	53.98	8.32	500.0	1000.0	203.0		11.0	16.1	
	5817.75 6871.00	57.56 51.52		68.00 68.00	10.44 16.48	500.0 500.0	1000.0 1000.0	203.0 226.0		<u>11.0</u> -45.0	16.1 19.0	
	6871.00		38.75	53.98	15.23	500.0	1000.0	226.0		-45.0	19.0	
Level in dBµV/m	100								ю5 dBµ СH 36	C 15.407	PK at 3m VG at 3m	
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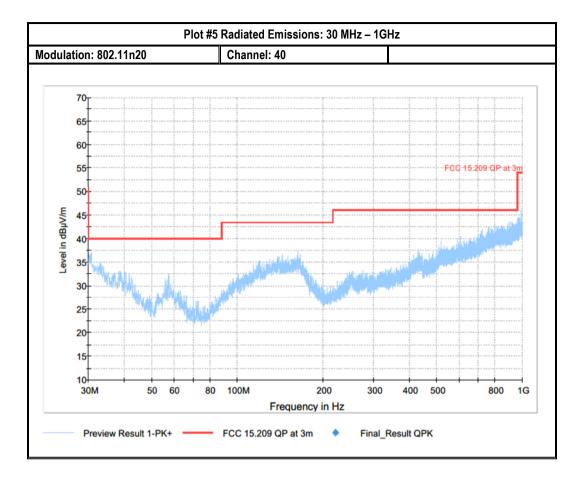








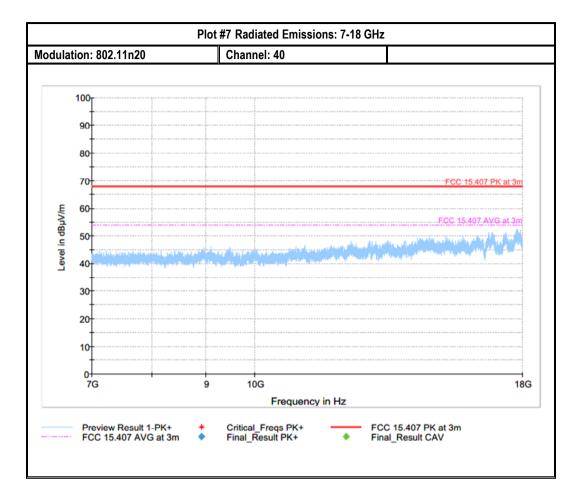




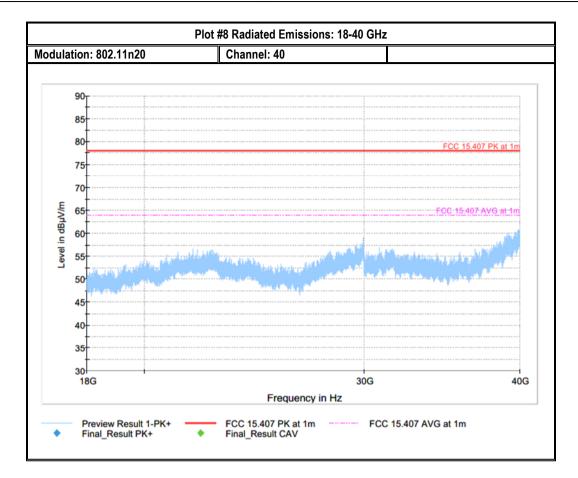


inal	Res	ult					1				
	uency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidt		Pol	Azimuth	Corr.
(M	Hz) 4995.25	(dBµV/m)	(dBµV/m) 35.99	(dBµV/m) 53.98 68.00	(dB)	(ms)	(kHz) 1000 1000	(cm)		(deg)	(dB/m) 14.8
	4995.25	48.81	35.99		17.99 19.19	500.0 500.0				270.0	14.8
	5840.50	54.34		68.00	13.66	500.0	1000			8.0	15.9
	5840.50		41.85	53.98	12.13	500.0	1000			8.0	15.9
	6711.50 6711.50	50.79	38.15	68.00 53.98	17.21 15.82	500.0 500.0	1000			145.0 145.0	18.3 18.3
	110							100.996	0000 GH 6 dBµV/ 1 CH 40		
	90										
	80										
m/	70								FC	<u>C-15.407 PK</u>	at 3m
√dBμ	60								FCC	15.407 AVG	at.3m
Level in dBµV/m	50										
_	40	in marte	a mini mani mini	المتحديقة التحديد		in a second		دە مەربەر مەربەر بەر	•	111	•
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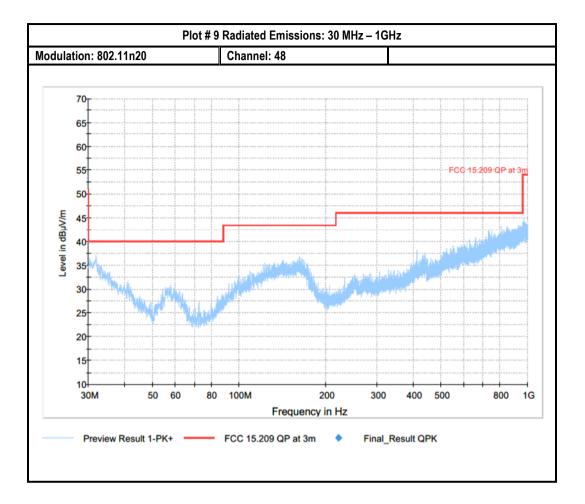








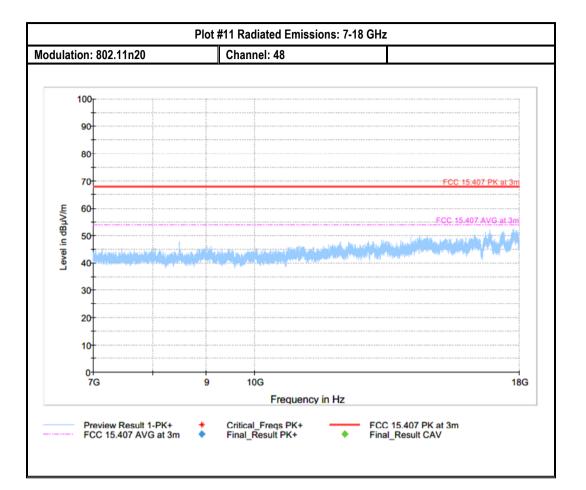




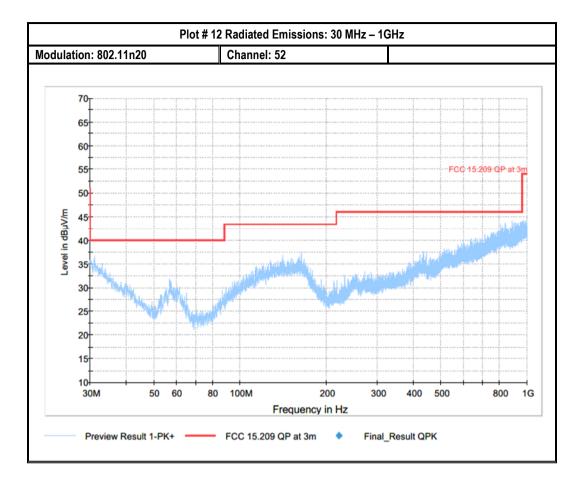


inal	Res	ult									
	uency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(M	Hz)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)) (ms) 98 500.0	(kHz)	(cm)		(deg)	(dB/m)
	3141.25		32.00	53.98	21.98		1000.0			82.0	
	3141.25	45.31		68.00	22.69	500.0	1000.0			82.0	
	5878.25	53.27	39.09	68.00 53.98	14.73 14.89	500.0 500.0	1000.0			38.0	
	5878.25 6458.00	50.72		68.00	17.28	500.0	1000.0			-17.0	
	6458.00	50.72	38.38	53.98	15.60	500.0	1000.0			-17.0	
	90							5:24300 101.755 WiFi CH 4	5 dBµV/		
	80										
F	70								FC	C-15.407 P	K at 3m
dBµV/n	60								FCC	15 407 40/	G at 3m
Level in dBµV/m	50									neal n	
Ľ	40	TT KLOPSTON OF	with providence i							•	•
	30										
	20										
	0										
	1G			20		3G quency in Hz		4G	5G	6	7G





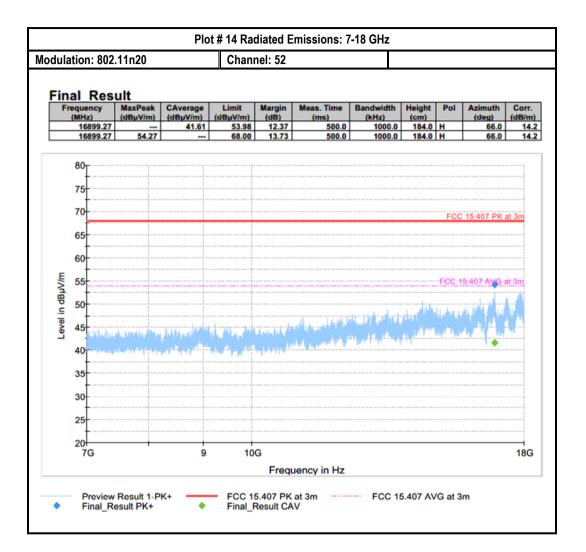




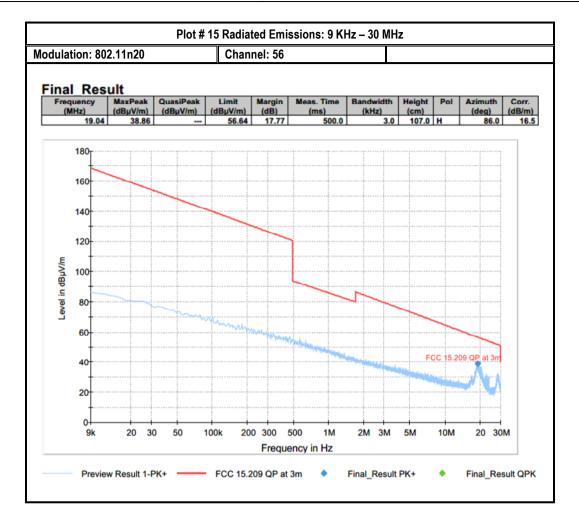


Fina	Res	ult									
Freq	uency	MaxPeak	CAverage	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Corr.
(1)	Hz) 4994.25	(dBµV/m)	(dBµV/m) 35.98	(dBµV/m) 53.98	(dB) 18.00	(ms) 500.0	(kHz) 1000.0	(cm) 175.0	v	(deg) 77.0	(dB/m) 14.8
	4994.25	49.71		68.00	18.29	500.0	1000.0	175.0		77.0	14.8
	5637.00		37.01	53.98	16.96	500.0	1000.0	107.0		126.0	
	5637.00 5965.50	50.24	36.59	68.00 53.98	17.76 17.39	500.0 500.0	1000.0 1000.0	107.0 246.0		126.0 208.0	16.9 16.3
	5965.50	49.62		68.00	18.38	500.0	1000.0	246.0		208.0	16.3
Level in dBµV/m	80 70 60 50 40								FC	C 15.407 P	<u>K at 3m</u> G at 3m
	30		na je na v poser na konstrukti (posekim s min		به به داند با (د با						
	20										
	10										
	0 1G			20		i 3G quency in Hz		4G	5G	6	

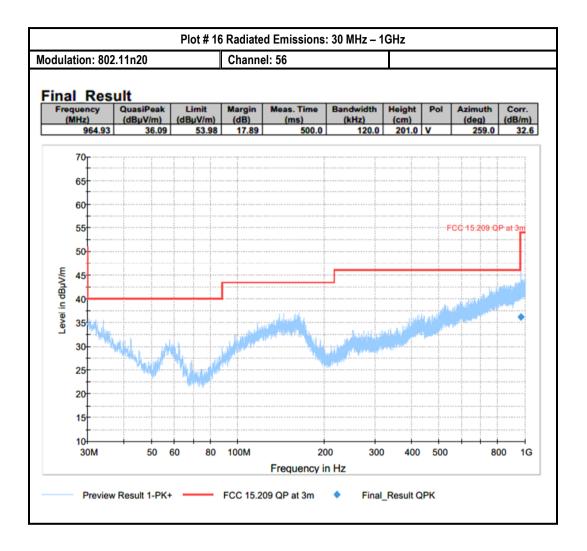








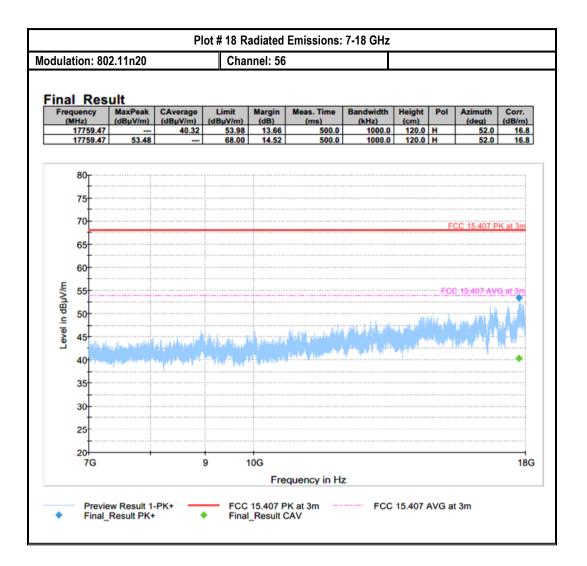




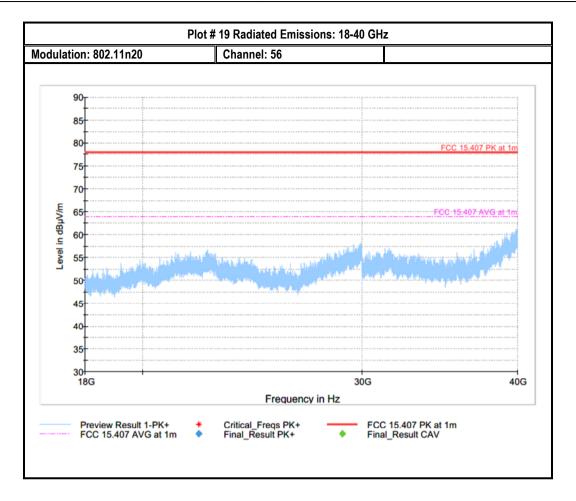


Fina	tion: 802	ult			nel: 56																		
(MHz) (dB 4774.50 4774.50 6792.50		MaxPeak (dBµV/m)	CAverage (dBµV/m) 35.27 38.38		20.24 15.60	Meas. Time (ms) 500.0 500.0 500.0	Bandwidth (kHz) 1000.0 1000.0 1000.0	(cm) 0 125.0 0 125.0 0 275.0	Pol	Azimuth (deg) 80.0 26.0	Corr. (dB/m) 14.4 14.4 18.2												
		47.76							H V														
													6792.50	51.49		68.00	16.51	500.0	1000.0	275.0	V	26.0	18.2
												Level in dBµV/m	110 100 90 80 70 60 50								00000 Gi dBµV/n 56 FCC FCC		at 3m
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30	(a) and (a) and (b) and (b) if		199 m 1 1 1																				
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•		w Result 1-F Result PK+	⊳к+ —		15.407 PK Result C/	(at 3m		15.407 A	VG at 3	m													

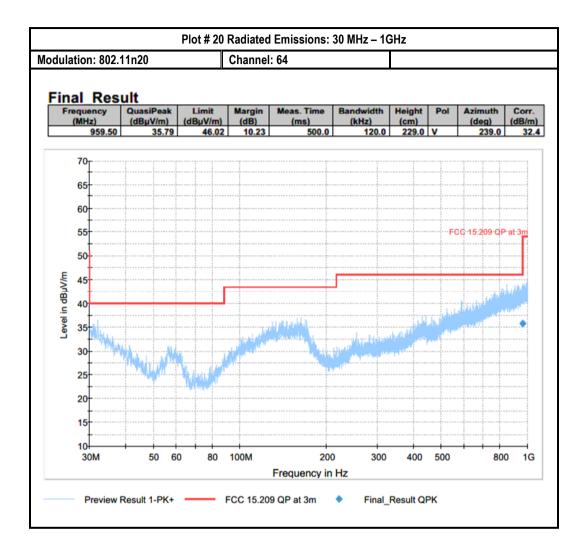














	on: 80	2.11n20		Chan	inel: 64						
Frequ (M)	iency	MaxPeak (dBµV/m) 47,99	CAverage (dBµV/m)	Limit (dBµV/m) 68.00	Margin (dB) 20.01	Meas. Time (ms) 500.0	Bandwidth (kHz) 1000.0	Height (cm) 237.0	Pol	Azimuth (deg) 182.0	Corr. (dB/m) 15.8
5088.75 5957.75 5957.75		 51.45	35.57 38.34	53.98 68.00	18.41 16.55	500.0 500.0	1000.0 1000.0	237.0 134.0	H H	182.0 24.0	15.8 16.3
	5957.75 6929.75 6929.75	 51.60	38.34 38.68	53.98 53.98 68.00	15.64 15.30 16.40	500.0 500.0 500.0	1000.0 1000.0 1000.0	134.0 210.0 210.0	н	24.0 30.0 30.0	16.3 19.2 19.2
	110										
	100							5.3185000		·	
	90							98:950 d			
	80										
E	70								FCC	15.407 PK :	<u>at 3m</u>
Level in dBµV/m	60								FCC 1	5.407 AVG a	it.3m
evel in	50										
Ľ	40		ve er igzer her til i	واللافر والعجوجا							•
	30	14 4 : i <i>sedi</i>	ni, militan statist, stati	A-Lulinnini (
	20										
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	0 1G			2G		3G Juency in Hz	4	G	5G	6	7G



