FCC TEST REPORT
For

Platinum Access Systems Inc.

RF Receiver

Model No.: JJ-JS-181

Prepared for	:	Platinum Access Systems Inc.
Address	:	1725 E. Grevillea CT.Ontario, CA 91761 USA
Prepared by	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Address	:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
Date of receipt of test sample	:	January 17, 2014
Number of tested samples	:	1
Serial number	:	Prototype
Date of Test	:	January 17, 2014 - February 25, 2014
Date of Report	:	February 25, 2014

FCC TEST REPORT FCC CFR 47 PART 15 Subpart B: 2012		
Report Reference No.	**:**	**LCS140117327TF**
Date Of Issue.....	:	February 25, 2014
Testing Laboratory Name	**:**	**Shenzhen LCS Compliance Testing Laboratory Ltd.**
Address.....	:	1/F., Xingyuan Industrial Park, Tongda Road, Bao'an Avenue, Bao'an District, Shenzhen, Guangdong, China
Testing Location/ Procedure	:	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name.....	**:**	**Platinum Access Systems Inc.**
Address.....	:	1725 E. Grevillea CT.Ontario, CA 91761 USA
Test Specification		
Standard	:	FCC CFR 47 PART 15 Subpart B:2012, ANSI C63.4-2009
Test Report Form No.	:	LCSEMC-1.0
TRF Originator.....	:	Shenzhen LCS Compliance Testing Laboratory Ltd.
Master TRF	:	Dated 2011-03

Test Item Description.....	**:**	**RF Receiver**
Trade Mark.....	:	N/A
Model/ Type Reference.....	:	JJ-JS-181
Ratings	:	DC 12V by Battery
Result	**:**	**Positive**

Compiled by:	Supervised by:	Approved by:
Tree Zhan/ File administrators	Fox Zhang/ Technique principal	Gavin Liang/ Manager

FCC TEST REPORT

Test Report No. : LCS140117327TF	February 25, 2014 Date of issue

Type/ Model.....	: JJ-JS-181
EUT.....	: RF Receiver
Applicant.....	**: Platinum Access Systems Inc.**
Address.....	: 1725 E. Grevillea CT.Ontario, CA 91761 USA
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: Giant Alarm System Co., Ltd.**
Address.....	: No.37 Yangguang Road, Optoelectronic Information Industrial park, DAXIAMEI , Nanan, Fujian, China
Telephone.....	: /
Fax.....	: /
Factory.....	: **Giant Alarm System Co., Ltd.**
Address.....	: No.37 Yangguang Road, Optoelectronic Information Industrial park, DAXIAMEI , Nanan, Fujian, China
Telephone.....	: /
Fax.....	: /

Test Result	**Positive**

The test report merely corresponds to the test sample.
It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

TABLE OF CONTENTS

1. SUMMARY OF STANDARDS AND RESULTS

The EUT have been tested according to the applicable standards as referenced below.

EMISSION			
Description of Test Item	**Standard**	**Limits**	**Results**
Radiated disturbance	FCC CFR 47 PART 15 Subpart B: 2012	Class B	PASS
N/A is an abbreviation for Not Applicable.			

2. GENERAL INFORMATION

2.1.Description of Device (EUT)

EUT : RF Receiver

Model Number : JJ-JS-181

Power Supply : DC 12V by Battery

Modulation Type : ASK

Receiving Frequency : 433.92MHz

Receiving Antenna : PCB Antenna, 2dBi

2.2.Support Equipment List

Manufacturer	Description	Model	Serial Number	Certificate
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2.3. External I/O Port

I/O Port Description	Quantity	Cable
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2.4.Description of Test Facility

Site Description
EMC Lab. : Accredited by CNAS, June 04, 2010

The Certificate Registration Number. is L4595.

Accredited by FCC, July 14, 2011

The Certificate Registration Number. is 899208.

Accredited by Industry Canada, May. 02, 2011

The Certificate Registration Number. is 9642A-1

Accredited by VCCI, Japan January 30, 2012

The Certificate Registration Number. is C-4260 and R-3804

Accredited by ESMD, April 24, 2012

The Certificate Registration Number. is ARCB0108.

Accredited by UL, June 11, 2012

The Certificate Registration Number. is 100571-492.

Accredited by TUV, November 21, 2012

The Certificate Registration Number. is SCN1081

Accredited by Intertek, December 21, 2012
The Certificate Registration Number. is 2011-RTL-L1-50.

2.5.Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. To CISPR 16 – 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the LCS quality system acc. To DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

2.6.Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)

(1). This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

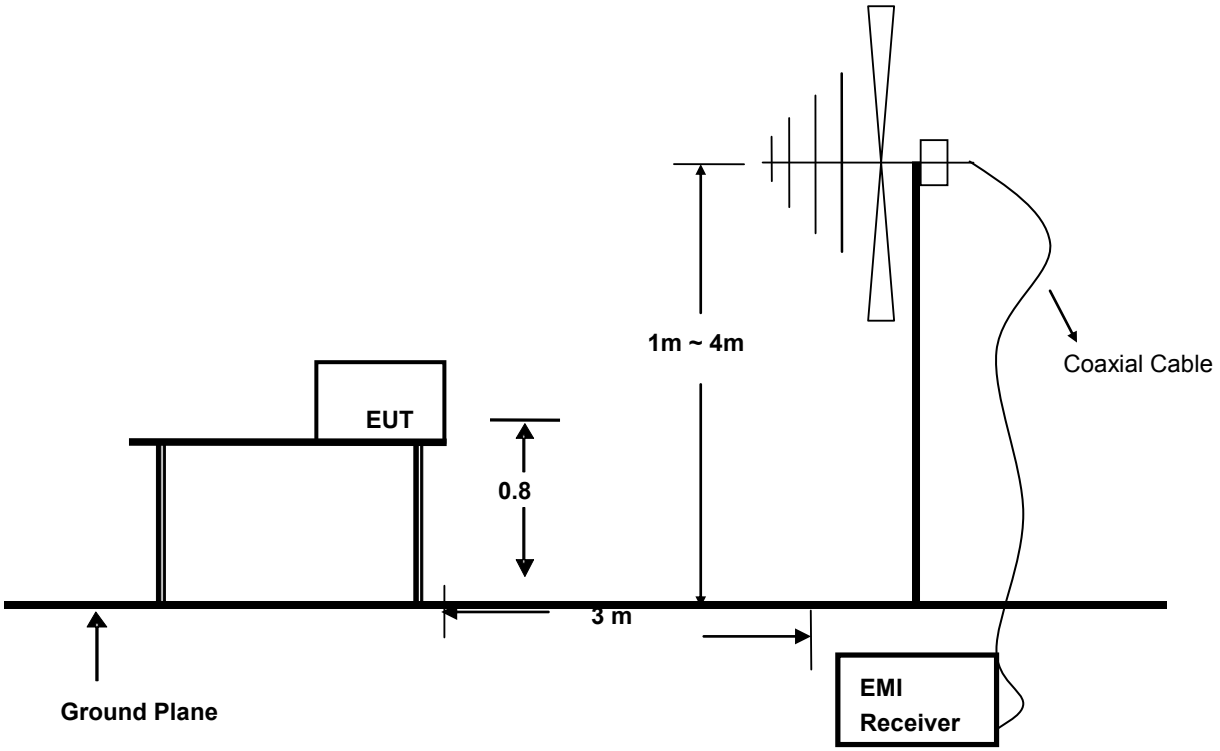
3. RADIATED EMISSION MEASUREMENT

3.1.Test Equipment

The following test equipments are used during the radiated emission measurement:

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
1	3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH03-HY	2013-06-18	2014-06-17
2	Amplifier	SCHAFFNER	COA9231A	18667	2013-06-18	2014-06-17
3	Amplifier	Agilent	8449B	3008A02120	2013-06-16	2014-06-15
4	Amplifier	MITEQ	AMF-6F-260400	9121372	2013-06-16	2014-06-15
5	Spectrum Analyzer	Agilent	E4407B	MY41440292	2013-06-16	2014-06-15
6	Signal analyzer	Agilent	E4448A(External mixers to 40GHz)	US44300469	2013-06-16	2014-06-15
7	Loop Antenna	R&S	HFH2-Z2	860004/001	2013-06-18	2014-06-17
8	By-log Antenna	SCHWARZBECK	VULB9163	9163-470	2013-06-10	2014-06-09
9	Horn Antenna	EMCO	3115	6741	2013-06-10	2014-06-09
10	Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	2013-06-10	2014-06-09
11	RF Cable-R03m	Jye Bao	RG142	CB021	2013-06-18	2014-06-17
12	RF Cable-HIGH	SUHNER	SUCOFLEX 106	03CH03-HY	2013-06-18	2014-06-17

3.2.Block Diagram of Test Setup



3.3.Radiated Emission Limit (Class B)

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
30~88	3	100	40.0
88~216	3	150	43.5
216~960	3	200	46.0
960~1000	3	500	54.0

Remark：(1) Emission level (dB)μV = 20 log Emission level μV/m

(2) The smaller limit shall apply at the cross point between two frequency bands.

(3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system

Limits for radiated disturbance Above 1GHz			
FREQUENCY (MHz)	DISTANCE (Meters)	FIELD STRENGTHS LIMIT	
		Average Limit (dBμV/m)	Peak Limit (dBμV/m)
1000-10 Harmonics	3	54	74
Note: The lower limit applies at the transition frequency.			

3.4.EUT Configuration on Measurement

The following equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

3.5.Operating Condition of EUT

(1) Setup the EUT as shown in Section 4.2.

(2) Let the EUT work in test mode (on) and measure it.

3.6.Test Procedure

1. Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.

2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.

3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.

4. For each suspected emissions, the antenna tower was scan (from 1 m to 4 m) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading

5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.

6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.

7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.

8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.

9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High – Low scan is not required in this case.
EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated by-log antenna) is used as receiving antenna. Both horizontal and vertical polarization of the antenna is set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4-2009 on radiated emission measurement.

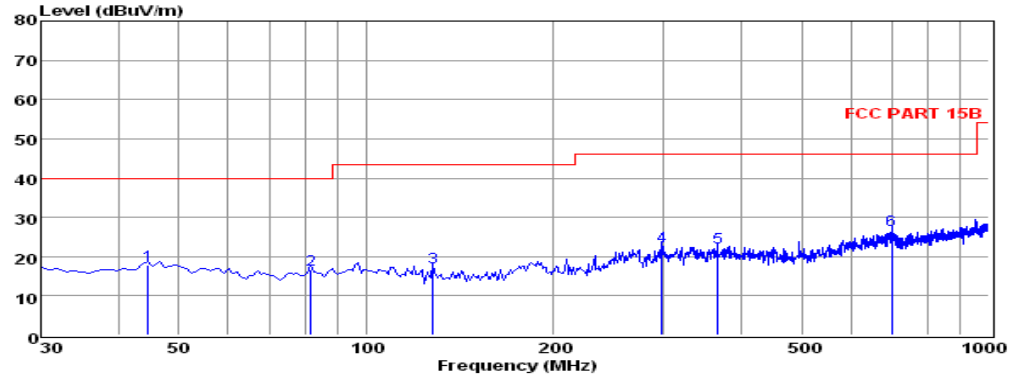
3.7. Test Results

PASS.

The test data please refer to following page.

Temperature	25℃	Humidity	60%
EUT	RF Receiver	Model Name	JJ-JS-181

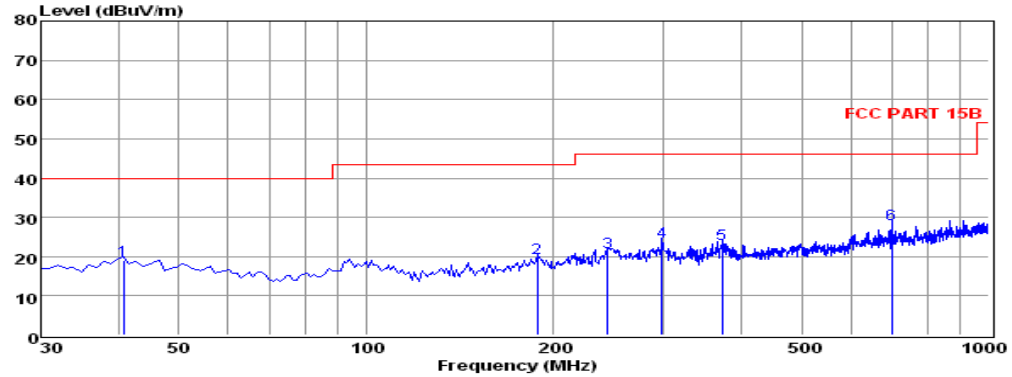
Below 1GHz:



Env./Ins: 24℃/56%
EUT: RF Receiver
M/N: JJ-JS-181
Power Rating: DC 12V
Test Mode: On
Operator: Tree
Memo:
pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	44.55	3.76	0.41	13.55	17.72	40.00	-22.28	QP
2	81.41	7.06	0.65	9.04	16.75	40.00	-23.25	QP
3	127.97	7.28	0.67	9.24	17.19	43.50	-26.31	QP
4	298.69	8.56	1.12	13.03	22.71	46.00	-23.29	QP
5	366.59	6.64	1.14	14.48	22.26	46.00	-23.74	QP
6	697.36	6.51	1.59	18.80	26.90	46.00	-19.10	QP

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported

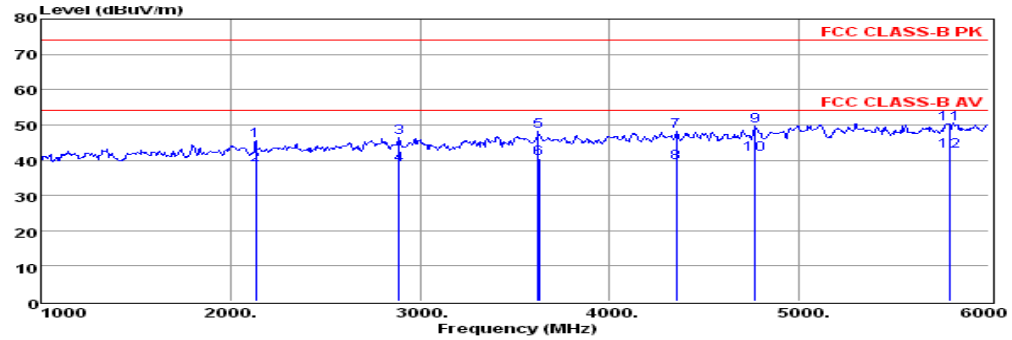


Env./Ins: 24℃/56%
EUT: RF Receiver
M/N: JJ-JS-181
Power Rating: DC 12V
Test Mode: On
Operator: Tree
Memo:
pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	40.67	4.84	0.50	13.58	18.92	40.00	-21.08	QP
2	188.11	8.15	0.98	10.39	19.52	43.50	-23.98	QP
3	244.37	8.20	0.90	12.08	21.18	46.00	-24.82	QP
4	298.69	9.51	1.12	13.03	23.66	46.00	-22.34	QP
5	373.38	7.69	1.10	14.54	23.33	46.00	-22.67	QP
6	697.36	8.01	1.59	18.80	28.40	46.00	-17.60	QP

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported

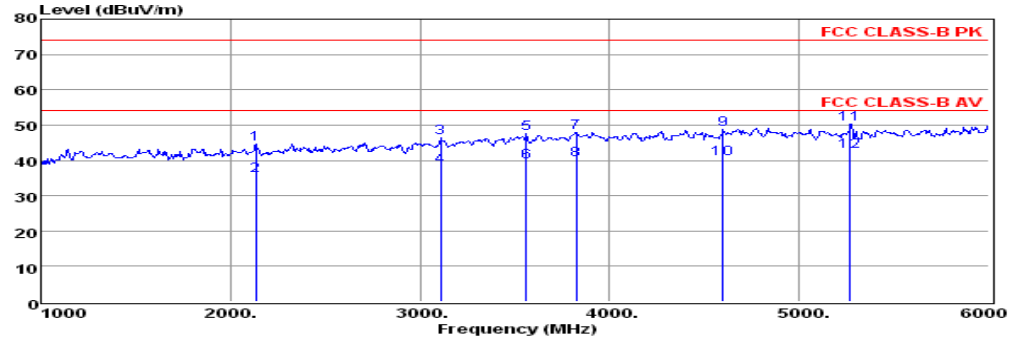
Above 1GHz:



Env./Ins: 24℃/56%
EUT: RF Receiver
M/N: JJ-JS-181
Power Rating: DC 12V
Test Mode: ON
Operator: Tree
Memo:
pol: HORIZONTAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2135.00	49.19	4.69	28.69	45.50	74.00	-28.50	Peak
2	2135.20	42.32	4.69	28.69	38.63	54.00	-15.37	Average
3	2890.00	48.65	5.75	28.90	46.26	74.00	-27.74	Peak
4	2890.50	40.93	5.75	28.90	38.54	54.00	-15.46	Average
5	3625.00	46.46	6.71	31.35	48.13	74.00	-25.87	Peak
6	3625.30	38.65	6.71	31.35	40.32	54.00	-13.68	Average
7	4350.00	44.98	7.41	32.34	48.09	74.00	-25.91	Peak
8	4350.30	36.23	7.41	32.34	39.34	54.00	-14.66	Average
9	4770.00	45.20	7.66	33.22	49.64	74.00	-24.36	Peak
10	4770.10	37.32	7.66	33.23	41.77	54.00	-12.23	Average
11	5790.00	42.75	8.67	35.77	50.39	74.00	-23.61	Peak
12	5790.90	34.88	8.67	35.78	42.53	54.00	-11.47	Average

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported



Env./Ins: 24℃/56%
EUT: RF Receiver
M/N: JJ-JS-181
Power Rating: DC 12V
Test Mode: ON
Operator: Tree
Memo:
pol: VERTICAL

	Freq	Reading	CabLos	Antfac	Measured	Limit	Over	Remark
	MHz	dBuV	dB	dB/m	dBuV/m	dBuV/m	dB	
1	2135.00	48.35	4.69	28.69	44.66	74.00	-29.34	Peak
2	2135.40	39.51	4.69	28.69	35.82	54.00	-18.18	Average
3	3110.00	47.68	6.04	29.63	46.35	74.00	-27.65	Peak
4	3110.90	39.59	6.04	29.64	38.27	54.00	-15.73	Average
5	3560.00	46.49	6.63	31.13	47.56	74.00	-26.44	Peak
6	3560.10	38.56	6.63	31.13	39.63	54.00	-14.37	Average
7	3825.00	45.59	6.97	32.02	47.92	74.00	-26.08	Peak
8	3825.60	37.86	6.97	32.02	40.19	54.00	-13.81	Average
9	4600.00	45.01	7.56	32.80	48.89	74.00	-25.11	Peak
10	4600.10	36.56	7.56	32.80	40.44	54.00	-13.56	Average
11	5270.00	44.15	8.10	34.47	50.16	74.00	-23.84	Peak
12	5270.70	36.62	8.10	34.48	42.64	54.00	-11.36	Average

Note: 1. All readings are Quasi-peak values.
2. Measured= Reading + Antenna Factor + Cable Loss
3. The emission that ate 20db blow the offficial limit are not reported

4. MANUFACTURER/ APPROVAL HOLDER DECLARATION

The following Series model(s):

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Belong to the tested device:

Product description : RF Receiver

Model name : JJ-JS-181

Remark: No additional models were tested.

----------THE END OF REPORT----------