Report No: CCISE191001605

FCC REPORT

Applicant: PCD, LLC

Address of Applicant: 1500 Tradeport Drive, Orlando, Florida, 32824. United States

Equipment Under Test (EUT)

Product Name: Jaguar II LTE

Model No.: PL550

Trade mark: PCD

FCC ID: 2ALJJPL550

Applicable standards: FCC CFR Title 47 Part 15 Subpart B

Date of sample receipt: 10 Oct., 2019

Date of Test: 10 Oct., to 24 Oct., 2019

Date of report issued: 24 Oct., 2019

Test Result: PASS *

Authorized Signature:



Bruce Zhang Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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^{*} In the configuration tested, the EUT complied with the standards specified above.





2 Version

Version No.	Date	Description
00	24 Oct., 2019	Original

Test Engineer

Reviewed by: Date: 24 Oct., 2019

Project Engineer



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4 Test Summary

Test Item	Item Section in CFR 47	
Conducted Emission	Part 15.107	Pass
Radiated Emission	Part 15.109	Pass

Remark:

- 1. Pass: The EUT complies with the essential requirements in the standard.
- 2. N/A: The EUT not applicable of the test item.

Test Method: ANSI C63.4:2014



5 General Information

5.1 Client Information

Applicant:	PCD, LLC	
Address:	1500 Tradeport Drive, Orlando, Florida, 32824. United States	
Manufacturer:	PCD, LLC	
Address: 1500 Tradeport Drive, Orlando, Florida, 32824. United Stat		

5.2 General Description of E.U.T.

Product Name:	Jaguar II LTE	
Model No.:	PL550	
Power supply:	Rechargeable Li-ion Battery DC3.8V-2500mAh	
AC adapter :	Model: PL550 Input: AC100-240V, 50/60Hz, 0.2A Output: DC 5.0V, 1000mA	
Test Sample Condition:	The test samples were provided in good working order with no visible defects.	

5.3 Test Mode

Operating mode	Detail description
PC mode Keep the EUT in Downloading mode(Worst case)	
Charging+Recording mode Keep the EUT in Charging+Recording mode	
Charging+Playing mode	Keep the EUT in Charging+Playing mode
FM mode	Keep the EUT in FM receiver mode
GPS mode Keep the EUT in GPS receiver mode	

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

5.4 Measurement Uncertainty

Parameters	Expanded Uncertainty
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB (k=2)
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB (k=2)
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB (k=2)
Radiated Emission (1GHz ~ 18GHz)	±5.38 dB (k=2)
Radiated Emission (18GHz ~ 40GHz)	±3.36 dB (k=2)

Shenzhen Zhongjian Nanfang Testing Co., Ltd.
No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China
Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366

Report No: CCISE191001605

5.5 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
DELL	PC	OPTIPLEX745	N/A	DoC
DELL	MONITOR	E178FPC	N/A	DoC
DELL	KEYBOARD	SK-8115	N/A	DoC
DELL	MOUSE	MOC5UO	N/A	DoC
LENOVO	Laptop	SL510	2847A65	DoC

5.6 Related Submittal(s) / Grant (s)

This is an original grant, no related submittals and grants.

5.7 Description of Cable Used

Cable Type	Description	Length	From	То
Detached USB Cable	Shielding	1.0m	EUT	PC/Adapter
Detached headset cable	Unshielded	1.2m	EUT	Headset

5.8 Additions to, deviations, or exclusions from the method

No

5.9 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

• FCC - Designation No.: CN1211

Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

• ISED - CAB identifier.: CN0021

The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

CNAS - Registration No.: CNAS L6048

Shenzhen Zhongjian Nanfang Testing Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6048.

A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf

5.10 Laboratory Location

Shenzhen Zhongjian Nanfang Testing Co., Ltd.

Address: No. B-C, 1/F., Building 2, Laodong No.2 Industrial Park, Xixiang Road,

Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info@ccis-cb.com, Website: http://www.ccis-cb.com

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Telephone: +86 (0) 755 2311 8282 Fax: +86 (0) 755 2311 6366





5.11 Test Instruments list

Radiated Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020	
Loop Antenna	SCHWARZBECK	FMZB1519B	00044	03-18-2019	03-17-2020	
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-18-2019	03-17-2020	
Horn Antenna	SCHWARZBECK	BBHA9120D	1805	06-22-2017	06-21-2020	
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170582	11-21-2018	11-20-2019	
EMI Test Software	AUDIX	E3	Version: 6.110919b		b	
Pre-amplifier	HP	8447D	2944A09358	03-18-2019	03-17-2020	
Pre-amplifier	CD	PAP-1G18	11804	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-18-2019	03-17-2020	
Spectrum analyzer	Rohde & Schwarz	FSP40	100363	11-21-2018	11-20-2019	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-18-2019	03-17-2020	
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-18-2019	03-17-2020	
Cable	MICRO-COAX	MFR64639	K10742-5	03-18-2019	03-17-2020	
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-18-2019	03-17-2020	

Conducted Emission:						
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-18-2019	03-17-2020	
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-18-2019	03-17-2020	
LISN	CHASE	MN2050D	1447	03-18-2019	03-17-2020	
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2019	07-20-2020	
Cable	HP	10503A	N/A	03-18-2019	03-17-2020	
EMI Test Software	AUDIX	E3	Version: 6.110919b			



6 Test results and Measurement Data

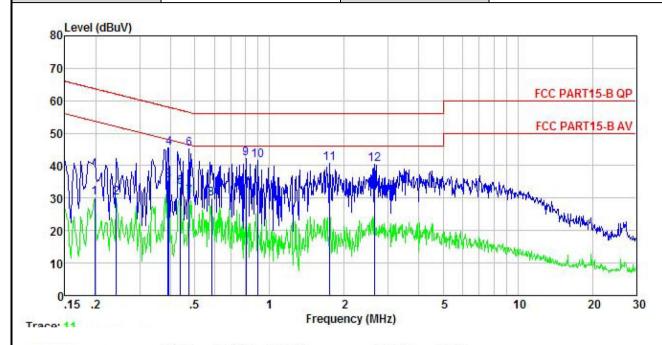
6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107				
Test Frequency Range:	150kHz to 30MHz	150kHz to 30MHz			
Class / Severity:	Class B				
Receiver setup:	RBW=9kHz, VBW=30kHz				
Limit:	Fraguenov rango (MUz)	Limit	(dBµV)		
	Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46*				
	0.5-5	56	46		
	0.5-30	60	50		
	* Decreases with the logarith	im of the frequency.			
Test recording	Reference Plane LISN 40cm 80cm Filter AC power Equipment Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN. Line Impedence Stabilization Network Test table height=0.8m				
Test procedure	 The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 				
Test Instruments:	Refer to section 5.11 for details				
Test mode:	Refer to section 5.3 for details				
Test results:	Pass				



Measurement data:

Product name:	Jaguar II LTE	Product model:	PL550
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



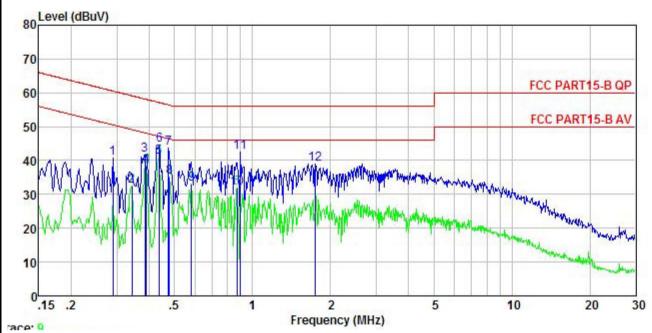
	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBu∇	<u>dB</u>		dBu₹	—dBu⊽	<u>ab</u>	
1	0.198	19.65	-0.41	10.76	30.00			Average
3	0.242 0.389	19.71 25.16	-0.40 -0.37	10.75	30.06 35.51			Average Average
$\check{4}$	0.393	35.07	-0.37		45.42	57.99	-12.57	QP
5	0.437	22.99			33.35			Average
2 3 4 5 6 7 8 9	0.474 0.474	20.15	-0.39 -0.39		45.03 30.51		-11.42 -15.94	Average
8	0.585	19.40	-0.39		29.77			Average
9	0.804	31.87	-0.38	10.81	42.30	56.00	-13.70	QP
10	0.894	31.11	-0.38	10.84	41.57	56.00	-14.43	QP
11	1.744	30.05	-0.40	10.94	40.59	56.00	-15.41	QP
12	2.650	30.02	-0.43	10.93	40.52	56.00	-15.48	QP

Notes

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



Product name:	Jaguar II LTE	Product model:	PL550
Test by:	Carey	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%
	·		



	Freq	Kead Level	Factor	Loss	Level	Limit	Over Limit	Remark
2	MHz	dBu∇	<u>ab</u>	<u>ab</u>	dBu₹	dBu∜	<u>ab</u>	
1	0.289	30.68	-0.64	10.74	40.78	60.54	-19.76	QP
1 2 3 4 5	0.343	22.23	-0.63	10.73	32.33	49.13	-16.80	Average
3	0.385	31.67	-0.64	10.72	41.75	58.17	-16.42	QP
4	0.389	28.31	-0.64	10.72	38.39	48.08	-9.69	Average
5	0.435	30.97	-0.64	10.73	41.06	47.15	-6.09	Average
6	0.437	34.48	-0.64	10.74	44.58	57.11	-12.53	QP
7	0.474	33.62	-0.65	10.75	43.72	56.45	-12.73	QP
7 8 9	0.479	24.93	-0.65	10.75	35.03	46.36	-11.33	Average
9	0.582	23.05	-0.65	10.76	33.16	46.00	-12.84	Average
10	0.871	21.62	-0.63	10.83	31.82	46.00	-14.18	Average
11	0.899	32.21	-0.63	10.84	42.42	56.00	-13.58	QP
12	1.744	28.70	-0.66	10.94	38.98	56.00	-17.02	QP

Notes:

- 1. An initial pre-scan was performed on the line and neutral lines with peak detector.
- 2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
- 3. Final Level =Receiver Read level + LISN Factor + Cable Loss.



6.2 Radiated Emission

0.Z K	adiated Emission	1					_
Т	Test Requirement:	FCC Part 15 B S	ection 15.10	09			
Т	Test Frequency Range:	30MHz to 6000M	1Hz				
Т	Test site:	Measurement Dis	stance: 3m	(Sen	ni-Anechoic	Chamber)	
R	Receiver setup:	Frequency	Detecto		RBW	VBW	Remark
		30MHz-1GHz	Quasi-pe		120kHz	300kHz	Quasi-peak Value
		Above 1GHz	Peak		1MHz	3MHz	Peak Value
			RMS		1MHz	3MHz	Average Value
L	₋imit:	Frequenc		Lim	nit (dBuV/m	@3m)	Remark
		30MHz-88N			40.0		Quasi-peak Value
		88MHz-216l			43.5		Quasi-peak Value
		216MHz-960 960MHz-10			46.0 54.0		Quasi-peak Value Quasi-peak Value
		900101112-10	31 12		54.0		Average Value
		Above 1G	Hz		74.0		Peak Value
Т	Test setup:	Below 1GHz			7 110		r oak valdo
		Turn John Table Osman A Above 1GHz	4m			Antenna Tower Search Antenna Test seiver	
		SOCM (Turn	EUT Grantable) Grantable)	THE STREET	Horn Antenna Pre- Amptifer	Antenna Tow Controller	rer WWW
Т	Fest Procedure:	ground at a 3 in degrees to det 2. The EUT was which was mo 3. The antenna higround to dete	meter semi- termine the set 3 meter unted on the neight is var ermine the no vertical pol	-aned posites s aw e top ied fr naxin	choic cambe tion of the hi ay from the o of a variabl rom one met num value o	r. The tab ghest radi interference e-height a ter to four f the field	ce-receiving antenna, intenna tower. meters above the





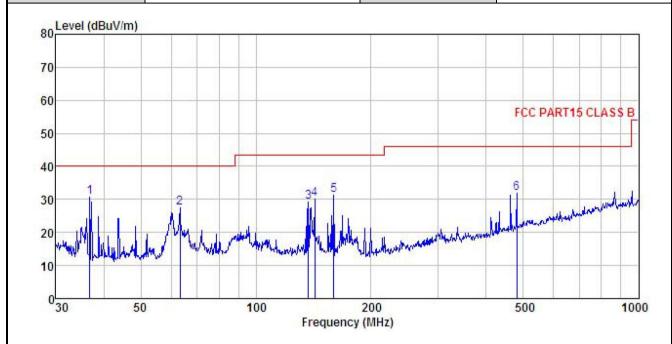
	4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
	The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
	6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
Test Instruments:	Refer to section 5.11 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	All of the observed value above 6GHz ware the niose floor , which were no recorded



Measurement Data:

Below 1GHz:

Product Name:	Jaguar II LTE	Product model:	PL550
Test By:	Carey	Test mode:	PC mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24°C Huni: 57%



	Freq	ReadA Level			Preamp Factor		Limit Line	Over Limit	Remark
=	MHz	dBu₹	<u>dB</u> /π	<u>d</u> B	<u>ab</u>	$\overline{dBuV/m}$	$\overline{dBuV/m}$	<u>dB</u>	
1	36.766	48.03	11.61	1.11	29.93	30.82	40.00	-9.18	QP
1 2 3	63.313	45.59	10.17	1.38	29.76	27.38	40.00	-12.62	QP
3	136.939	46.51	9.69	2.36	29.29	29.27	43.50	-14.23	QP
4	142.324	47.61	9.35	2.43	29.26	30.13	43.50	-13.37	QP
4 5	159.784	48.48	9.27	2.59	29.13	31.21	43.50	-12.29	QP
6	480.528	39.83	17.52	3.46	28.92	31.89	46.00	-14.11	QP

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.



duct l	Name:	Jagua	r II LTE			Prod	uct mode	l:	PL550	
st By:		Carey				Test	mode:	mode: PC mode		
st Freq	quency:	30 MH	30 MHz ~ 1 GHz Polarization: Horizontal							
st Volta	age:	AC 12	0/60Hz			Envir	ronment:		Temp: 24℃	Huni: 57%
Le	evel (dBuV/m	1								
80	oror (abarrin									
70										
60										
60									FCC PART1	CLASS B
50										
40			I							6
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20 10			Manufer Manufe	100		200	Limit	Over	500	
20 10)			100 Cable	Frequen	200 ncy (MHz)		Over	500	
20 10)	ReadA		100 Cable	Frequen Preamp Factor	200 ncy (MHz) Level		Over	500 Remark	
10 MM	Freq MHz	ReadA Level dBuV 40.96	Factor dB/m 11.14	Cable Loss dB	Frequent Preamp Factor dB 29.95	200 ncy (MHz) Level dBuV/m 23.19	Line dBuV/m 40.00	Over Limit ———————————————————————————————————	500 Remark QP	
10 MM	Freq MHz 34.517 141.826	ReadA Level dBuV 40.96 40.65	Factor dB/m 11.14 9.39	100 Cable Loss dB 1.04 2.42	Frequent Preamp Factor dB 29.95 29.26	200 ncy (MHz) Level dBuV/m 23. 19 23. 20	Line dBuV/m 40.00 43.50	Over Limit ———————————————————————————————————	500 Remark QP QP	
20 10	Freq MHz	ReadA Level dBuV 40.96	Factor dB/m 11.14	Cable Loss dB	Frequent Preamp Factor dB 29.95 29.26 29.02 28.73	200 ncy (MHz) Level dBuV/m 23. 19 23. 20 26. 04 26. 41	Line dBuV/m 40.00 43.50 43.50	Over Limit ———————————————————————————————————	500 Remark QP QP QP QP QP QP	

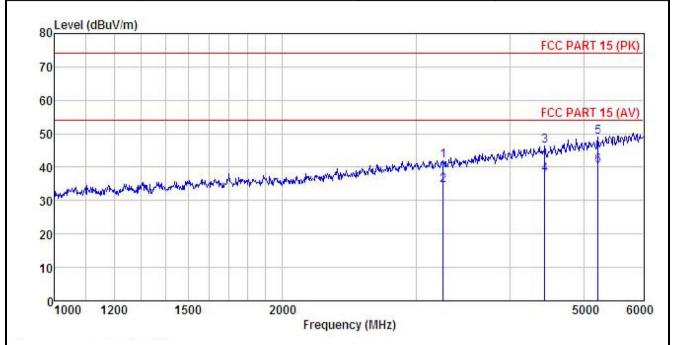
Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



Above 1GHz:

Product Name:	Jaguar II LTE	Product model:	PL550
Test By:	Carey	Test mode:	PC mode
Test Frequency:	1 GHz ~ 6 GHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz	Environment:	Temp: 24℃ Huni: 57%



	Freq		Antenna Factor				Limit Line	Over Limit	Remark
	MHz	—dBu∜	— <u>dB</u> /π		<u>ab</u>	$\overline{dB} \overline{uV/m}$	$\overline{dBuV/m}$	<u>ab</u>	
1	3262.720	47.17	28.55	5.49	41.39	41.89	74.00	-32.11	Peak
2	3262.720	39.87	28.55	5.49	41.39	34.59	54.00	-19.41	Average
3	4440.397	48.80	30.39	6.75	42.00	46.28	74.00	-27.72	Peak
4	4440.397	40.18	30.39	6.75	42.00	37.66	54.00	-16.34	Average
5	5226.772	49.45	31.95	7.09	41.94			-24.88	
6	5226.772	40.86	31.95	7.09	41.94	40.53	54.00	-13.47	Average

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.



duci	Name:		Jagua	ar II LTE			Prod	duct mod	el:	PL550		
st By:	:		Carey	/			Test	mode:		PC mode		
st Fre	equency:		1 GH	z ~ 6 GHz			Pola	rization:		Horizonta	Horizontal	
st Vol	ltage:		AC 12	20/60Hz			Env	ironment		Temp: 24	$^{\circ}$	Huni: 57%
1	Level (dBu	ı\//m\										
80	Lever (aba									FCC	PART 1	5 (PK)
70												11
00												
60										FCC	PART 1	5 (AV)
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30 20 10												
30 20 10		200		500	200	00	ncy (MHz)				5000	6000
30 20 10			1	500	200	00 Freque	ncy (MHz)					
30 20 10	1000 12	200	1 Read.	500 Antenna	200 Cable	00 Freque Preamp	ncy (MHz)	Limit	Over			
30 20 10	1000 12 Fr	200 eq	1 Read.	500 Antenna Factor	200 Cable Loss	00 Freque Preamp Factor	ncy (MHz) Level	Limit Line	Over Limit	Remark		
30 20 10	1000 12 Fr	200	Read. Level	500 Antenna Factor	200 Cable	Preamp Factor	ncy (MHz) Level dBuV/m	Limit Line	Over Limit	Remark		
30 20 10 0	1000 12 Fr M0	200 eq Hz	Read. Level	500 Antenna Factor — dB/m 28.57	Cable Loss dB 5.55	Preamp Factor dB	ncy (MHz) Level dBuV/m 43.72	Limit Line dBuV/m 74.00	Over Limit ———————————————————————————————————	Remark 		
30 20 10 0	Fr M0 3327.6 3327.6 4307.1	eq Hz 64 64 83	Read. Level dBuV 48.87 40.59 48.95	500 Antenna Factor ————————————————————————————————————	200 Cable Loss dB 5.55 5.55 6.56	Preamp Factor 	ncy (MHz) Level dBuV/m 43.72 35.44 46.28	Limit Line dBuV/m 74.00 54.00 74.00	Over Limit 	Remark Peak Average Peak		
30 20 10 0	1000 12 Fr M0 3327.6	eq eq 64 64 83 83	Read. Level dBuV 48.87 40.59	500 Antenna Factor ————————————————————————————————————	200 Cable Loss dB 5.55 5.55	Preamp Factor dB 41.37	ncy (MHz) Level dBuV/m 43.72 35.44	Limit Line dBuV/m 74.00 54.00 74.00 54.00	Over Limit 	Remark Peak Average Peak Average		

Remark:

- 1. Final Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor.
- 2. The emission levels of other frequencies are very lower than the limit and not show in test report.