

Report No: JYTSZB-R01-2100879

# FCC REPORT

Applicant:	INFINIX MOBILITY LIMITED		
Address of Applicant:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT		
Equipment Under Test (E	EUT)		
Product Name:	Mobile Phone		
Model No.:	X6815B		
Trade mark:	Infinix		
FCC ID:	2AIZN-X6815B		
Applicable standards:	FCC CFR Title 47 Part 15 Subpart B		
Date of sample receipt:	13 Dec., 2021		
Date of Test:	14 Dec., 2021 to 10 Jan., 2022		
Date of report issued:	11 Jan., 2022		
Test Result:	PASS *		

\* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



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 JYT 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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#### Version 2

	r	
Version No.	Date	Description
00	11 Jan., 2022	Original

Tested by:

Mike.OU Test Engineer

11 Jan., 2022 Date:

Reviewed by:

Winner Thang Project Engineer

Date: 11 Jan., 2022

Project No.: JYTSZE2112041



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## 4 Test Summary

Test Item	Section in CFR 47	Result		
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.				
Test Method: ANSI C63.4:2014				



## **5** General Information

## 5.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

## 5.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	X6815B
Power supply:	Rechargeable Li-ion Polymer Battery DC3.87V, 4900mAh
AC adapter:	Model: U330XSA
	Input: AC100-240V, 50/60Hz, 1.5A
	Output: DC 5.0V, 3.0A or 10V, 3.3A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

## 5.3 Test Mode and test samples plans

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.

#### **Test Samples Plans :**

Samples Number	Used for Test Items
1#	Conducted Emission
1#	Radiated Emission
2#	EUT constructional details
<b>Remark:</b> JianYan Testing Group She and will keep the above samples for	enzhen Co., Ltd. is only responsible for the test project data of the above samples, a month.



## 5.4 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 150KHz) for V-AMN	3.11 dB
Conducted Emission (150kHz ~ 30MHz) for V-AMN	2.62 dB
Radiated Emission (9kHz ~ 30MHz electric field) for 3m SAC	3.13 dB
Radiated Emission (9kHz ~ 30MHz magnetic field) for 3m SAC	3.13 dB
Radiated Emission (30MHz ~ 1GHz) for 3m SAC	4.45 dB
Radiated Emission (1GHz ~ 18GHz) for 3m SAC	5.34 dB
Radiated Emission (18GHz ~ 40GHz) for 3m SAC	5.34 dB

## 5.5 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
Lenovo	Laptop	ThinkPad T14 Gen 1	SL10Z47277	DoC
HP	Printer	HP LaserJet P1007	VNFP409729	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

JianYan Testing Group Shenzhen 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 and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen 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 L15527

JianYan Testing Group Shenzhen Co., Ltd. is accredited to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L15527.

#### • A2LA - Registration No.: 4346.01

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: <u>https://portal.a2la.org/scopepdf/4346-01.pdf</u>



## 5.10 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd. Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China. Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info-JYTee@lets.com, Website: http://www.ccis-cb.com

## 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	ETS	RFD-100	Q1984	04-14-2021	04-13-2024	
BiConiLog Antenna	SCHWARZBECK	VULB9163	9163-1246	03-07-2021	03-06-2022	
<b>Biconical Antenna</b>	SCHWARZBECK	VUBA 9117	9117#359	06-17-2021	06-17-2022	
Horn Antenna	SCHWARZBECK	BBHA9120D	912D-916	03-07-2021	03-06-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1067	04-02-2021	04-01-2022	
Broad-Band Horn Antenna	SCHWARZBECK	BBHA9170	1068	04-02-2021	04-01-2022	
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-03-2021	03-02-2022	
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-03-2021	03-02-2022	
Spectrum analyzer	Keysight	N9010B	MY60240202	10-27-2021	10-26-2022	
Low Pre-amplifier	SCHWARZBECK	BBV9743B	00305	03-07-2021	03-06-2022	
High Pre-amplifier	SKET	LNPA_0118G-50	MF280208233	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-NN-8M	JYT3M-1	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-18G-NN-8M	JYT3M-2	03-07-2021	03-06-2022	
Cable	Qualwave	JYT3M-1G-BB-5M	JYT3M-3	03-07-2021	03-06-2022	
Cable	Bost	JYT3M-40G-SS-8M	JYT3M-4	04-02-2021	04-01-2022	
EMI Test Software	Tonscend	TS+	Version:3.0.0.1			

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 3	101189	03-03-2021	03-02-2022
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	03-18-2021	03-17-2022
LISN	Rohde & Schwarz	ESH3-Z5	843862/010	06-18-2020	06-17-2022
RF Switch	TOP PRECISION	RSU0301	N/A	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-NN-2M	JYTCE-1	03-03-2021	03-02-2022
Cable	Bost	JYTCE-1G-BN-3M	JYTCE-2	03-03-2021	03-02-2022
EMI Test Software	AUDIX	E3	V	ersion: 6.110919	b





## 6 Test results and Measurement Data

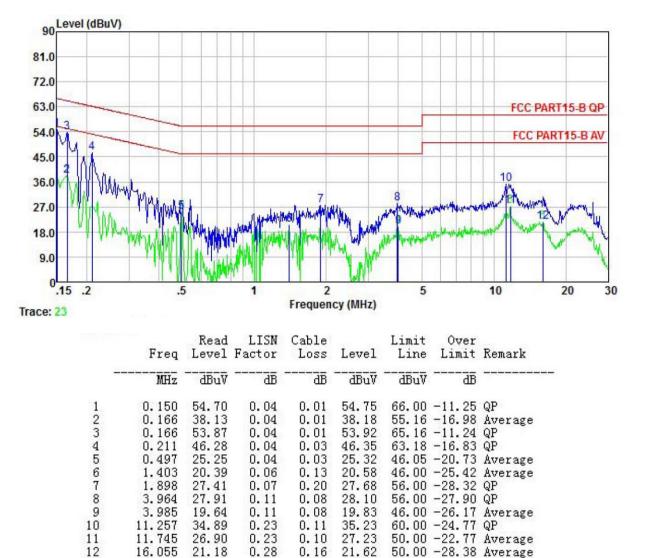
## 6.1 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.107		
•			
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)		(dBµV)
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5 0.5-30	56 60	46 50
	* Decreases with the logarithm		50
		or the nequency.	
Test setup:	Reference Plane		
	Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m	EMI Receiver	
Test procedure	<ol> <li>The E.U.T and simulators are impedance stabilization netw coupling impedance for the n</li> <li>The peripheral devices are a LISN that provides a 50ohm/ termination. (Please refers to photographs).</li> <li>Both sides of A.C. line are interference. In order to fin positions of equipment and according to ANSI C63.4(late)</li> </ol>	ork(L.I.S.N.). The prov neasuring equipment. Iso connected to the m 50uH coupling impeda the block diagram of t checked for maximum d the maximum emission all of the interface cat	ide a 50ohm/50uH ain power through a nce with 50ohm the test setup and conducted on, the relative oles must be changed
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:	Mobile Phone	Product model:	X6815B
Test by:	Mike	Test mode:	PC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5℃ Huni: 55%



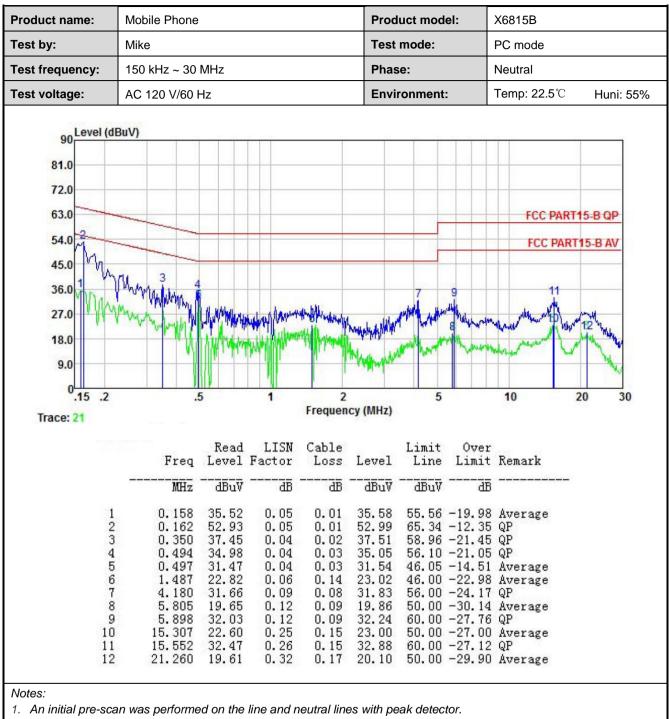
Notes:

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.





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

Test Requirement:	FCC Part 15 B Se	ection 15.109	9			
Test Frequency Range:	30MHz to 6000MI	Hz				
Test site:	Measurement Dis	tance: 3m (S	Sem	i-Anechoic (	Chamber)	
Receiver setup:	Frequency	Detector	r	RBW	VBW	Remark
	30MHz-1GHz	Quasi-pea	ak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak		1MHz	3MHz	Peak Value
	Above IGHZ	RMS		1MHz	3MHz	Average Value
Limit:	Frequenc		Lim	nit (dBuV/m	@3m)	Remark
	30MHz-88M			40.0		Quasi-peak Value
	88MHz-216			43.5		Quasi-peak Value
	216MHz-960			46.0		Quasi-peak Value
	960MHz-1G	iHz		54.0		Quasi-peak Value
	Above 1G	-Iz		54.0		Average Value
Test setup:				74.0		Peak Value
	EUT Tum Table Ground Plane Above 1GHz	4m 4m •		RFT		1
		EUT		Horn Antenna Horn Antenna ence Plane	Antenna Tower	
Test Procedure:	ground at a 3 n degrees to dete 2. The EUT was s which was mou 3. The antenna he ground to deter	neter semi-a ermine the p set 3 meters unted on the eight is varie rmine the ma	anec oositi awa top ed fro axim	hoic camber on of the hig ay from the in of a variable om one mete num value of	The table phest radiat nterference height an er to four m the field st	e-receiving antenna, tenna tower. neters above the

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	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.
	5. 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:

roduct	Name	e: N	lobile Phone			Produ	ct Model:	X6815	5B		
Fest By:		Ν	like			Test n	node:	PC m	ode		
Fest Fre	quen	<b>cy:</b> 3	30 MHz ~ 1 GHz				Polarization:		Vertical		
Fest Vol	tage:	A	C 120V/60Hz			Enviro	onment:	Temp	: <b>24</b> °C	Huni: 57%	
Leve[dBµV/m]	110 90 80 70 60 50 40 30				FCC PART 15 E	B CLASS B		FCC PART	T 15 B CLASS B-	QP Limit	
	20 10	non the second	water and the second second second	nulududanti tana ana ana ana ana ana ana ana ana an	Croquere					1G	
	20 10 0 30M	QP Limit QP Detector	Vertical PK		Frequenc					16	
	20 10 0 30M	QP Limit QP Detector	Vertical PK			y[Hz]				16	
	20 10 0 30M	QP Limit QP Detector	Vertical PK	Level	Frequenc Frequenc Factor [dB]		Margin [dB]	Trace	Polari		
	20 10 30M	OP Limit OP Detector Cted Data Freq.	Vertical PK	Level	Factor	y[Hz]	Margin	Trace	Polari Vertic	ity	
	20 10 30M	→ QP Limit → QP Detector ected Data Freq. [MHz]		Level [dBµV/m]	Factor [dB]	y[Hz]	Margin [dB]			ity	
	20 10 30M - - - - - - - - - - - - -	→ QP Limit → QP Detector → Cted Data Freq. [MHz] 37.8578		Level [dBµV/m] 14.52	Factor [dB] -14.70	y[Hz] Limit [dBµV/m] 40.00	Margin [dB] 25.48	PK	Vertic	ity al	
	20 10 30M Suspe NO. 1 2	• OP Limit • OP Detector • Cted Data Freq. [MHz] 37.8578 68.7069	Vertical PK	Level [dBµV/m] 14.52 28.23	Factor [dB] -14.70 -16.60	y(Hz)	Margin [dB] 25.48 11.77	PK PK	Vertic Vertic	ity al al	
	20 10 30M Suspe NO. 1 2 3	← QP Limit ← QP Detector Cted Data Freq. [MHz] 37.8578 68.7069 137.680		Level [dBµV/m] 14.52 28.23 18.76	Factor [dB] -14.70 -16.60 -17.91	y[Hz] Limit [dBµV/m] 40.00 40.00 43.50	Margin [dB] 25.48 11.77 24.74	PK PK PK	Vertic Vertic Vertic	ity al al al al	



Touuci	Name	9:  Ⅳ	obile Phone			Produ	ct Model:	X681	5B		
Test By: Test Frequency:		N	ike			Test n	node:	PC m	PC mode		
		<b>cy:</b> 3	30 MHz ~ 1 GHz			Polaria	Polarization:		Horizontal		
Test Volt	tage:	A	C 120V/60Hz			Enviro	onment:	Temp	<b>: 24</b> ℃	Huni: 579	
		·						·			
	110				FCC PART 15 E	CLASS B					
	100										
	90										
[m//											
[dBh								FCC PAR	RT 15 B CLASS B-	QP Limit	
Leve											
	30					4		5	• <sup>6</sup>		
	100 90 80 70 60 90 80 80 70 40 80 40					T			A DESCRIPTION OF THE OWNER OF THE		
	20		**************************************		<b>→</b> <sup>3</sup>		the the loss have	Name of Street of Street of Street			
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	10 M	u for vorte or the		100M	Frequency					1G	
	10 M	- QP Limit	- Horizontal PK	100M						1G	
	10 M	QP Limit QP Detector	- Horizontal PK	100M			and an			1G	
	10 M		Horizontal PK	100M			Jan M Jackson			1G	
S	10			100M						16	
	10	QP Detector		100M			Margin	Trace	Polari		
	10	QP Detector	List		Frequenc	y[Hz]	Margin [dB]	Trace	Polari		
	10 order 0 30M	• QP Detector •cted Data Freq.	List Reading[d	Level	Frequenc	y[Hz]		Trace	Polari	ity	
	10	<ul> <li>QP Detector</li> <li>Cted Data</li> <li>Freq.</li> <li>[MHz]</li> <li>41.7382</li> <li>68.7069</li> </ul>	List Reading[d BµV/m] 29.17 39.82	Level [dBµV/m] 14.51 23.22	Frequence Factor [dB] -14.66 -16.60	V[Hz] Limit [dBµV/m] 40.00 40.00	[dB] 25.49 16.78	PK PK	Horizor Horizor	ity ntal	
	10	<ul> <li>QP Detector</li> <li>cted Data</li> <li>Freq.</li> <li>[MHz]</li> <li>41.7382</li> <li>68.7069</li> <li>140.106</li> </ul>	List Reading[d BuV/m] 29.17 39.82 38.18	Level [dBµV/m] 14.51 23.22 20.17	Frequence Factor [dB] -14.66 -16.60 -18.01	V[Hz] Limit [dBµV/m] 40.00 40.00 43.50	[dB] 25.49 16.78 23.33	PK PK PK	Horizor Horizor Horizor	ity ntal ntal ntal	
	10	<ul> <li>QP Detector</li> <li>Cted Data</li> <li>Freq.</li> <li>[MHz]</li> <li>41.7382</li> <li>68.7069</li> </ul>	List Reading[d BµV/m] 29.17 39.82	Level [dBµV/m] 14.51 23.22	Frequence Factor [dB] -14.66 -16.60 -18.01 -14.22	V[Hz] Limit [dBµV/m] 40.00 40.00	[dB] 25.49 16.78	PK PK	Horizor Horizor Horizor Horizor	ity ntal ntal ntal ntal	
	10	<ul> <li>QP Detector</li> <li>cted Data</li> <li>Freq.</li> <li>[MHz]</li> <li>41.7382</li> <li>68.7069</li> <li>140.106</li> </ul>	List Reading[d BuV/m] 29.17 39.82 38.18	Level [dBµV/m] 14.51 23.22 20.17	Frequence Factor [dB] -14.66 -16.60 -18.01	V[Hz] Limit [dBµV/m] 40.00 40.00 43.50	[dB] 25.49 16.78 23.33	PK PK PK	Horizor Horizor Horizor	ity ntal ntal ntal ntal ntal	



#### Above 1GHz:

	Nam	e:	Mob	ile Phone			Produc	t Model:	X6815	В	
Test By:	est Frequency:		Mike			Test m	ode:	PC mode Vertical			
Test Fred			1 GHz ~ 6 GHz				Polariz				ation:
Test Volt	age:		AC ·	120V/60Hz			Enviro	nment:	Temp:	Huni: 57%	
	110					FCC PART 15	B				
	90										
	80									FCC PART 1	5 B-PK Limit
[w,	70										
Level[dBµ//m]	60									FCC PART 1	5 B-AV Limit
eve	50 40						a selo da		and the second	4	S Carlos Andrewski S S Carlos Antrophyliothia
	30	Munandertandining	andy have no more the	hanna an	langelised television in the second	aligen allen sinder aller ander aller a Andere aller andere aller andere aller a	n fearl i tean a that sea i that is a state of a state of the sea	night into a state of the state	al and the provided in the state of the second s	and an	
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	10										
									1		
	0⊥ 1G				2G	Frequency/H	3G		IG	5G	6G
		─ PK Limit ♦ PK Detector		AV Limit Ve AV Detector	2G ertical PK — Vertical	Frequency[H			lG	5G	6G
S	1G	PK Detector	•	AV Detector					IG	5G	6G
	1G USPe	PK Detector	•	AV Detector	ertical PK — Vertical	AV	z]		IG		_
	1G	PK Detector	• ata L	AV Detector				Margin [dB]	IG Trace		eG arity
	1G USPe	<ul> <li>PK Detector</li> <li>ected Da</li> <li>Freq.</li> </ul>	• nta L	AV Detector	ertical PK — Vertical Level	Factor	z] Limit	Margin		Pol	_
	IG USPe IO.	<ul> <li>PK Detector</li> <li>ected Da</li> <li>Freq.</li> <li>[MHz]</li> </ul>	• nta L 0	AV Detector ist Reading [dBµV/m]	ertical PK — Vertical Level [dBµV/m]	AV Factor [dB]	z] Limit [dBµV/m]	Margin [dB]	Trace	Pol	arity
	16 <b>uspe</b> 10.	<ul> <li>PK Detector</li> <li>ected Da</li> <li>Freq.</li> <li>[MHz]</li> <li>3865.0</li> <li>3896.2</li> <li>4618.7</li> </ul>	• ata L 0 5 5	AV Detector ist Reading [dBµV/m] 57.65 49.81 56.57	Evel [dBµV/m] 44.01 36.29 46.33	AV Factor [dB] -13.64	z] Limit [dBµV/m] 74.00	Margin [dB] 29.99	Trace	Pol Ver Ver	arity
N	1G uspe IO. 1 2 3 4	<ul> <li>PK Detector</li> <li>ected Da</li> <li>Freq.</li> <li>[MHz]</li> <li>3865.0</li> <li>3896.2</li> <li>4618.7</li> <li>4655.6</li> </ul>	• 1112 L 0 5 5 2	AV Detector ist Reading [dBµV/m] 57.65 49.81 56.57 48.92	Level [dBµV/m] 44.01 36.29 46.33 38.92	AV Factor [dB] -13.64 -13.52 -10.24 -10.00	z] Limit [dBµV/m] 74.00 54.00 74.00 54.00	Margin [dB] 29.99 17.71 27.67 15.08	Trace PK AV PK AV	Pol Ver Ver Ver	arity tical tical tical tical
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