

JianYan Testing Group Shenzhen Co., Ltd.

Report No.: JYTSZ-R12-2301631

FCC RF Test Report

(Bluetooth)

Report No.: JYTSZ-R12-2301631

Applicant: INFINIX MOBILITY LIMITED

Address of Applicant: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

19-25 SHAN MEI STREET FOTAN NT HONGKONG

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: X6525

Trade Mark: Infinix

FCC ID: 2AIZN-X6525

Applicable Standards: FCC CFR Title 47 Part 15C (§15.247)

Date of Sample Receipt: 23 Nov., 2023

Date of Test: 24 Nov., to 08 Dec., 2023

Date of Report Issued: 11 Dec., 2023

Test Result: PASS

Project by: Date: 11 Dec., 2023

Reviewed by: ______ Date: _____ 11 Dec., 2023

Approved by: Janet. Wei Date: 11 Dec., 2023

Manager

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in above the application standard version. Test results reported herein relate only to the item(s) tested.

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1 Version

Version No.	Date	Description
00	11 Dec., 2023	Original



2 Contents

			Page
С	over Pa	ge	1
1	Vers	sion	2
2	Con	tents	3
3	Gen	eral Information	4
	3.1	Client Information	4
	3.2	General Description of E.U.T.	4
	3.3	Test Mode and Test Environment	5
	3.4	Description of Test Auxiliary Equipment	5
	3.5	Measurement Uncertainty	5
	3.6	Additions to, Deviations, or Exclusions From the Method	5
	3.7	Laboratory Facility	6
	3.8	Laboratory Location	6
	3.9	Test Instruments List	6
4	Mea	surement Setup and Procedure	8
	4.1	Test Channel	8
	4.2	Test Setup	8
	4.3	Test Procedure	10
5	Test	Results	11
	5.1	Summary	11
	5.1.1	Clause and data summary	11
	5.1.2	2 Test Limit	12
	5.2	Emissions in Non-restricted Frequency Bands	13





3 General Information

3.1 Client Information

Applicant:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Manufacturer:	INFINIX MOBILITY LIMITED
Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
Factory:	SHENZHEN TECNO TECHNOLOGY CO., LTD.
Address:	101, Building 24, Waijing Industrial Park, Fumin Community, Fucheng Street, Longhua District, Shenzhen City, P.R.China

3.2 General Description of E.U.T.

3.2 General Description of E.U.I.				
Product Name:	Mobile Phone			
Model No.:	X6525			
Operation Frequency:	2402 MHz - 2480 MHz			
Transfer Rate:	1/2/3 Mbits/s			
Number of Channel:	79			
Modulation Type:	GFSK, π/4-DQPSK, 8DPSK			
Modulation Technology:	FHSS			
Antenna Type:	Internal Antenna			
Antenna Gain:	-3.2 dBi (declare by applicant)			
Antenna transmit mode:	SISO (1TX, 1RX)			
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.85V, 4900mAh			
AC Adapter:	Model: U100XSA			
	Input: AC100-240V, 50/60Hz, 0.3A			
	Output: DC 5.0V, 2.0A			
Test Sample Condition:	The test samples were provided in good working order with no visible defects.			



3.3 Test Mode and Test Environment

Test Modes:	
Non-hopping mode:	Keep the EUT in continuous transmitting mode.
Hopping mode:	Keep the EUT in hopping mode.

Remark:

- For AC power line conducted emission and radiated spurious emission, pre-scan GFSK, π/4-DQPSK, 8DPSK modulation mode, found GFSK modulation was worse case mode. The report only reflects the test data of worst mode.
- 2. Channel Low, Mid and High for each type band with rated data rate were chosen for full testing. The field strength of spurious radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for these modes. Just the worst case position (H mode) shown in report.

Operating Environment:				
Temperature:	15℃ ~ 35℃			
Humidity:	20 % ~ 75 % RH			
Atmospheric Pressure:	1008 mbar			
Voltage:	Nominal: 3.85Vdc, Extreme: Low 3.45Vdc, High 4.50Vdc			
Test Engineer:	Kiran Zeng (Radiated measurement)			

3.4 Description of Test Auxiliary Equipment

The EUT has been tested as an independent unit.

3.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))		
Conducted Emission for LISN (9kHz ~ 150kHz)	3.57 dB		
Conducted Emission for LISN (150kHz ~ 30MHz)	3.14 dB		
Radiated Emission (30MHz ~ 200MHz) (3m SAC)	4.6 dB		
Radiated Emission (200MHz ~ 1000MHz) (3m SAC)	5.8 dB		
Radiated Emission (1GHz ~ 6GHz) (3m FAR)	4.95 dB		
Radiated Emission (6GHz ~ 18GHz) (3m FAR)	5.23 dB		
Radiated Emission (18GHz ~ 40GHz) (3m FAR)	5.32 dB		

Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

3.6 Additions to, Deviations, or Exclusions From the Method

Nο

JianYan Testing Group Shenzhen Co., Ltd. Report Template No.: JYTSZ4b-149-C1 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

Report No.: JYTSZ-R12-2301631

3.7 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: https://portal.a2la.org/scopepdf/4346-01.pdf

3.8 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://ivt.lets.com

3.9 Test Instruments List

	onto Elot					
Radiated Emission(3m SAC):						
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m SAC	ETS	9m*6m*6m	WXJ001-1	04-14-2021	04-13-2024	
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	02-09-2023	02-08-2024	
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-09-2023	02-08-2024	
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXJ001-2	01-10-2023	01-09-2024	
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	01-11-2023	01-10-2024	
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	01-18-2023	01-17-2024	
Test Software	Tonscend	TS+		Version: 3.0.0.1	_	

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Radiated Emission(3m FAR):						
Test Equipment	Manufacturer	Model No.	Manage No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)	
3m FAR	YUNYI	9m*6m*6m	WXJ097	06-15-2023	06-14-2028	
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ097-2	07-13-2023	07-12-2024	
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	07-02-2021	07-01-2024	
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ097-3	07-14-2023	07-13-2024	
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	01-09-2023	01-08-2024	
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-5	01-09-2023	01-08-2024	
Horn Antenna	Schwarzbeck	BBHA9170	WXJ002-6	01-09-2023	01-08-2024	
Pre-amplifier (30MHz ~ 1GHz)	YUNYI	PAM-310N	WXJ097-5	05-14-2023	05-13-2024	
Pre-amplifier (1GHz ~ 18GHz)	YUNYI	PAM-118N	WXJ097-6	05-14-2023	05-13-2024	
Pre-amplifier (18GHz ~ 40GHz)	RF System	TRLA-180400G45B	WXJ002-7	01-11-2023	01-10-2024	
EMI Test Receiver	Rohde & Schwarz	ESCI3	WXJ003	01-10-2023	01-09-2024	
Spectrum Analyzer	Rohde & Schwarz	FSP 30	WXJ004	01-10-2023	01-09-2024	
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ081-1	06-13-2023	06-12-2024	
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-13M	WXG097-1	08-01-2023	07-31-2024	
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG097-2	08-01-2023	07-31-2024	
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG097-3	08-01-2023	07-31-2024	
High Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/A		
Low Band Reject Filter Group	Tonscend	JS0806-F	WXJ097-4	N/A		
Test Software	Tonscend	TS+		Version: 5.0.0		



4 Measurement Setup and Procedure

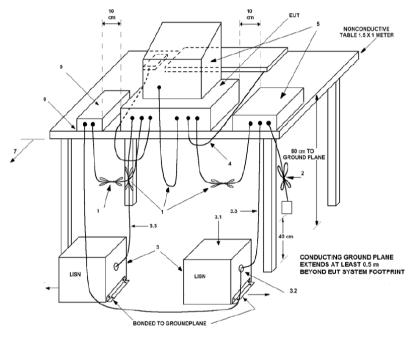
4.1 Test Channel

According to ANSI C63.10-2013 chapter 5.6.1 Table 4 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:

Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
0	2402	39	2441	78	2480

4.2 Test Setup

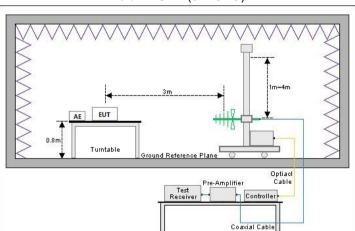
1) Conducted emission measurement:



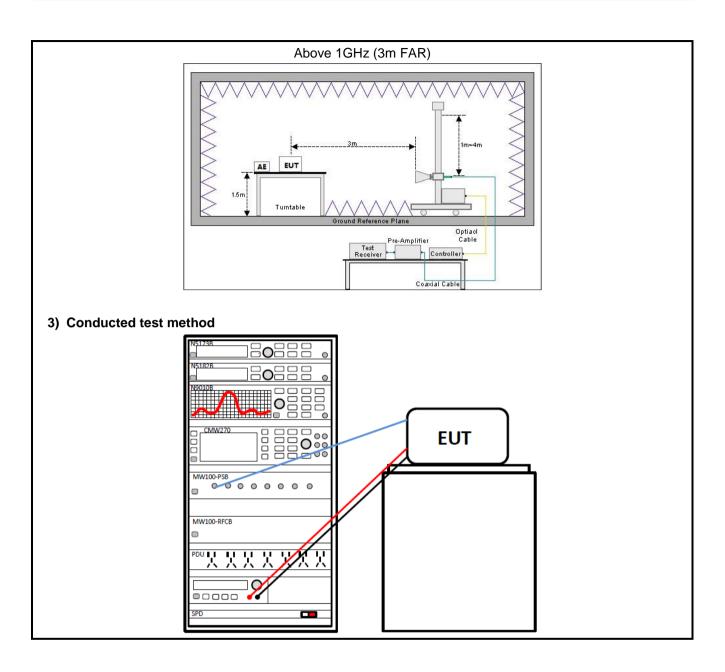
Note: The detailed descriptions please refer to Figure 8 of ANSI C63.4:2014.

2) Radiated emission measurement:

Below 1GHz (3m SAC)











4.3 Test Procedure

Test method	Tost ston
	Test step
Conducted emission	The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.
	2. The peripheral devices are also connected to the main power through a LISN
	that provides a 50ohm/50uH coupling impedance with 50ohm termination.
	(Please refer to the block diagram of the test setup and photographs).
	3. 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 C63.10 on
	conducted measurement.
Radiated emission	For below 1GHz:
	1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a
	3 m semi anechoic chamber. The measurement distance from the EUT to the
	receiving antenna is 3 m.
	2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and
	considered typical configuration to obtain worst position. The highest signal
	levels relative to the limit shall be determined by rotating the EUT from 0° to
	360° and with varying the measurement antenna height between 1 m and 4
	m in vertical and horizontal polarizations.
	Open the test software to control the test antenna and test turntable. Perform
	the test, save the test results, and export the test data.
	For above 1GHz:
	1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a
	3 m fully anechoic room. The measurement distance from the EUT to the
	receiving antenna is 3 m.
	2. EUT works in each mode of operation that needs to be tested, and having
	the EUT continuously working, respectively on 3 axis (X, Y & Z) and
	considered typical configuration to obtain worst position. The highest signal
	levels relative to the limit shall be determined by rotating the EUT from 0° to
	360° and with varying the measurement antenna height between 1 m and 4
	m in vertical and horizontal polarizations.
	3. Open the test software to control the test antenna and test turntable. Perform
Conducted to at mostly and	the test, save the test results, and export the test data.
Conducted test method	The Bluetooth antenna port of EUT was connected to the test port of the test system through an RE cable.
	system through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all
	modulation modes.
	Open the test software, prepare a test plan, and control the system through
	the software. After the test is completed, the test report is exported through
	the test software.



5 Test Results

5.1 Summary

5.1.1 Clause and data summary

This report was amended on FCC ID: 2AIZN-X6525 follow FCC Class II Permissive Change. The original report: JYTSZ-R12-2301202, issued by JianYan Testing Group Shenzhen Co., Ltd. The differences between them as below: Update the memory and components. The location of the components has changed. The antenna of 2.4 GHz WiFi & BT & GPS has been updated, so the Emissions in Non-restricted Frequency Bands have been retested.

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203 15.247 (b)(4)	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
AC Power Line Conducted Emission	15.207	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
Conducted Output Power	15.247 (b)(1)	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
20dB Occupied Bandwidth	15.247 (a)(1)	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
Carrier Frequencies Separation	15.247 (a)(1)	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
Hopping Channel Number	5.247 (a)(1)(iii)	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
Dwell Time	15.247 (a)(1)(iii)	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
Band-edge Emission Conduction Spurious Emission	15.247 (d)	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
Emissions in Restricted Frequency Bands	15.205 15.247 (d)	Please refer to report No.: JYTSZ-R12-2301202.	Please refer to report No.: JYTSZ-R12-2301202.
Emissions in Non-restricted Frequency Bands	15.209 15.247(d)	See Section 5.2	Pass

Remark:

- 1. Please refer to FCC ID: 2AIZN-X6525, report No.: JYTSZ-R12-2301202 issue by Jian Yan Testing Group Shenzhen Co., Ltd.
- 2. Pass: The EUT complies with the essential requirements in the standard.
- 3. N/A: Not Applicable.
- 4. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer).

Test Method: | ANSI C63.10-2013

KDB 558074 D01 15.247 Meas Guidance v05r02

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5.1.2 Test Limit

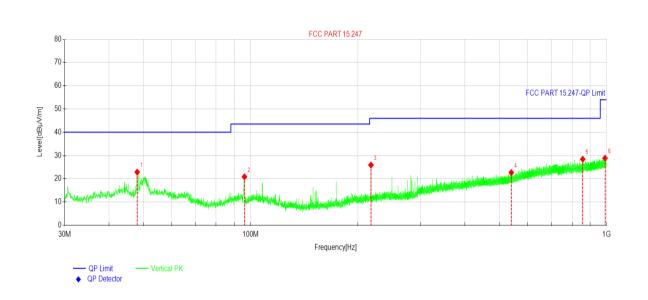
Test items		Lim	it					
	Frequency		Limit (dE	βμV)				
	(MHz)	Quasi	-Peak	Average				
AC Power Line Conducted	0.15 – 0.5	66 to 5	6 Note 1	56 to 46 Note 1				
Emission	0.5 – 5	5		46				
	5 – 30	6	_	50				
	Note 1: The limit level in dBμV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.							
Conducted Output Power	For frequency hopping sys employing at least 75 non- frequency hopping system	overlapping ho	opping chann	els: 1 watt. For all oth	er			
20dB Occupied Bandwidth	Within authorization band							
Carrier Frequencies	a) 0.025MHz or the 20dB	bandwidth (wh	ichever is gr	eater).				
Separation	b) 0.025MHz or two-thirds	•	_	•				
Hopping Channel Number	At least 15 channels.							
Dwell Time	Not be greater than 0.4 se	conds.						
Band-edge Emission Conduction Spurious Emission	spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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(
	Frequency (MHz)	@ 3m	@ 10m	Detector				
	30 – 88	40.0	30.0	Quasi-peak	1			
Emissions in Restricted	88 – 216	43.5	33.5	Quasi-peak				
Frequency Bands	216 – 960	46.0	36.0	Quasi-peak				
	960 – 1000	54.0	44.0	Quasi-peak				
Emissions in Non-restricted								
Frequency Bands	Frequency		Limit (dBµV/m	, <u> </u>				
		Average		Peake				
	Above 1 GHz	54.		74.0	-			
	Note: The measurement bandwidth shall be 1 MHz or greater.							



5.2 Emissions in Non-restricted Frequency Bands

Below 1GHz:

Product Name:	Mobile Phone	Product Model:	X6525
Test By:	Kiran	Test mode:	BT Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	DC 3.85V		



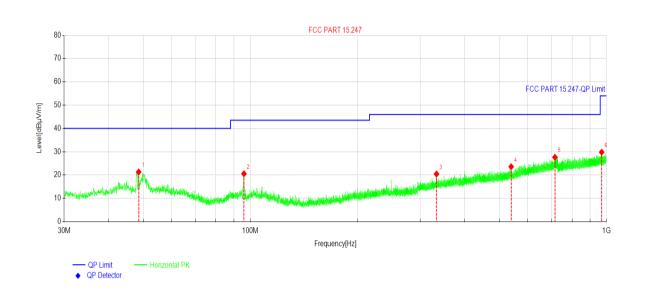
Suspe	Suspected Data List									
NO.	Freq. [MHz]	Reading[d BµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity		
1	47.9944	35.57	-12.70	22.87	40.00	17.13	PK	Vertical		
2	96.0603	36.08	-15.24	20.84	43.50	22.66	PK	Vertical		
3	217.801	40.67	-14.75	25.92	46.00	20.08	PK	Vertical		
4	540.003	30.99	-8.32	22.67	46.00	23.33	PK	Vertical		
5	857.402	31.40	-2.99	28.41	46.00	17.59	PK	Vertical		
6	990.784	30.29	-1.42	28.87	54.00	25.13	PK	Vertical		

Remark

1. Level = Reading + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).



Product Name:	Mobile Phone	Product Model:	X6525
Test By:	Kiran	Test mode:	BT Tx mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	DC 3.85V		



Suspe	Suspected Data List										
NO.	Freq. [MHz]	Reading[d BµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Trace	Polarity			
1	48.5764	33.97	-12.67	21.30	40.00	18.70	PK	Horizontal			
2	95.9633	35.82	-15.26	20.56	43.50	22.94	PK	Horizontal			
3	333.237	32.08	-11.63	20.45	46.00	25.55	PK	Horizontal			
4	540.003	31.91	-8.32	23.59	46.00	22.41	PK	Horizontal			
5	716.600	32.34	-4.71	27.63	46.00	18.37	PK	Horizontal			
6	969.298	31.56	-1.75	29.81	54.00	24.19	PK	Horizontal			

Remark:

1. Level = Reading + Factor(Antenna Factor + Cable Loss - Preamplifier Factor).



Above 1GHz:

		hannel	hannel: Lowest c	Test c		
		ue	etector: Peak Val	D		
Polarizati	Margin (dB)	Limit (dBuV/m)	Level (dBuV/m)	Factor(dB)	Read Level (dBuV)	Frequency (MHz)
Vertica	26.20	74.00	47.80	-7.66	55.46	4804.00
Horizont	25.42	74.00	48.58	-7.66	56.24	4804.00
		alue	ector: Average V	Det		
Polarizati	Margin (dB)	Limit (dBuV/m)	Level (dBuV/m)	Factor(dB)	Read Level (dBuV)	Frequency (MHz)
\/a#iaa	15.14	54.00	38.86	-7.66	46.52	4804.00
Vertica	10.17					
Horizont	14.73	54.00	39.27	-7.66	46.93	4804.00
		54.00	channel: Middle cl	Test (46.93	4804.00
		54.00		Test (46.93 Read Level (dBuV)	Frequency (MHz)
Horizont	14.73 Margin	54.00 nannel ue Limit	channel: Middle cl etector: Peak Val Level	Test o	Read Level	Frequency
Polarizati	Margin (dB)	54.00 nannel ue Limit (dBuV/m)	channel: Middle cl etector: Peak Val Level (dBuV/m)	Test of D Factor(dB)	Read Level (dBuV)	Frequency (MHz)
Polarizati Vertical	14.73 Margin (dB) 25.21	54.00 nannel ue Limit (dBuV/m) 74.00 74.00	channel: Middle cl etector: Peak Val Level (dBuV/m) 48.79	Test of D Factor(dB) -7.77 -7.77	Read Level (dBuV) 56.56	Frequency (MHz) 4882.00
Polarizati Vertical	14.73 Margin (dB) 25.21	54.00 nannel ue Limit (dBuV/m) 74.00 74.00	channel: Middle cl etector: Peak Val Level (dBuV/m) 48.79 48.18	Test of D Factor(dB) -7.77 -7.77	Read Level (dBuV) 56.56	Frequency (MHz) 4882.00
Polarizati Vertica Horizont	Margin (dB) 25.21 25.82	54.00 nannel ue Limit (dBuV/m) 74.00 74.00 alue Limit	channel: Middle cl etector: Peak Val Level (dBuV/m) 48.79 48.18 ector: Average Val	Test of D Factor(dB) -7.77 -7.77 Def	Read Level (dBuV) 56.56 55.95	Frequency (MHz) 4882.00 4882.00 Frequency

Test channel: Highest channel								
Detector: Peak Value								
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization		
4960.00	55.94	-7.82	48.12	74.00	25.88	Vertical		
4960.00	55.51	-7.82	47.69	74.00	26.31	Horizontal		
		Det	ector: Average Va	alue				
Frequency (MHz)	Read Level (dBuV)	Factor(dB)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Polarization		
4960.00	46.57	-7.82	38.75	54.00	15.25	Vertical		
4960.00	46.99	-7.82	39.17	54.00	14.83	Horizontal		

Remark:

- 1. Level = Reading + Factor.
- Test Frequency up to 25GHz, and the emission levels of other frequencies are lower than the limit 20dB, not show in test report.

-----End of report-----

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