

0659



FCC Radio Test Report FCC ID: PU5-LN300WG3L

Report No. : BTL-FCCP-14-2102T172A Equipment : Notebook Computer

Model Name : Lenovo 300w Gen 3xxxxxxxx (The "x" in model name can be 0 to 9, A to Z,

a to z, "-" or blank, for marketing purpose only)

Brand Name : Lenovo

Applicant: Wistron Corporation

Address : 21F, No. 88, Sec. 1, Hsin Tai Wu Rd., Hsichih Dist, New Taipei City 221,

Taiwan

Radio Function : WCDMA Band II, LTE Band 2

FCC Rule Part(s) : 47 CFR FCC Part 24 Subpart E

Measurement : ANSI C63.26-2015 Procedure(s) ANSI/TIA-603-E-2016

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

Date of Receipt : 2021/3/12

Date of Test : 2021/3/12 ~ 2021/3/31

Issued Date : 2021/4/27

The above equipment has been tested and found in compliance with the requirement of the above standards by BTL Inc.

Prepared by

Approved by

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Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** shall have no liability for any declarations, inferences or generalizations drawn by the client or others from **BTL** issued reports.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the **ISO/IEC 17025** requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REVISON HISTORY

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1 SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

FCC Clause No Description		Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
2.1053 24.238(a)	Radiated Spurious Emissions	APPENDIX B	Pass	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report.
- (2) The report format version is TP.1.1.1.
- (3) The WWAN test result refer FCC ID: PU5-LN300WG3D that the system of 2 FCC IDs (WWAN system IDs) are identical HW design of system, the same WWAN module and WWAN + WLAN antennas. The only difference is different FCC ID contains different certified WLAN module.
- (4) After spot check, this revision does not change original radio parameters.

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1.1 TEST FACILITY

The test facilities used to collect the test data in this report	The test facilities	used to	collect the	test data	in this re	port
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No. 68-1, Ln. 169, Sec. 2, Datong Rd., Xizhi Dist., New Taipei City 221, Taiwan The test sites and facilities are covered under FCC RN: 355421 and DN: TW1099.

oxin C05 oxin CB08 oxin CB11 oxin CB15 oxin CB16

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expanded uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k} = \mathbf{2}$, providing a level of confidence of approximately 95 %. The measurement instrumentation uncertainty considerations contained in CISPR 16-4-2. The BTL measurement uncertainty is less than the CISPR 16-4-2 \mathbf{U}_{cisor} requirement.

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U (dB)
C05	CISPR	150 kHz ~ 30MHz	3.44

B. Radiated emissions test:

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
	0.2 GHz ~ 1 GHz	4.72
CB15	1 GHz ~ 6 GHz	5.21
CB15	6 GHz ~ 18 GHz	5.51
	18 GHz ~ 26 GHz	3.69
	26 GHz ~ 40 GHz	4.23

NOTE:

Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	20 °C, 72 %	AC 120V	Vincent Lee
Radiated Spurious Emissions	Refer to data	AC 120V	Jay Kao

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2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Computer	Notebook Computer			
Model Name		Lenovo 300w Gen 3xxxxxxxxx (The "x" in model name can be 0 to 9, A to Z, a to z, "-" or blank, for marketing purpose only)			
Brand Name	Lenovo				
Model Difference	Different model distri	bute to different area.			
Power Source	DC voltage supplied	from External Power Supply.	(Lenovo/ADLX45YLC3D)		
Power Rating		I/P: 100-240V~1.3A 50-60Hz O/P: 20.0V—2.25A 45.0W / 15.0V—3.0A / 9.0V—2.0A / 5.0V—2.0A 10.0W			
Products Covered	1 * Adapter: Lenovo/	1 * Adapter: Lenovo/ADLX45YLC3D			
WIFI+BT Module	Realtek / RTL8822C	E			
WWAN Module	Fibocom / L850-GL				
	Band	UL Frequency (MHz)	DL Frequency (MHz)		
Operation Frequency	WCDMA II	1850 ~ 1910	1930 ~ 1990		
	LTE 2 1850 ~ 1910 1930 ~ 1990				
Test Model	Lenovo 300w Gen 3				
Sample Status	Engineering Sample				
EUT Modification(s)	N/A				

NOTE:

(1) For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

(2) Table for Filed Antenna:

Antenna	Manufacture	Parts Number	Type	Connector	Gain (dBi)	Note
Main	INPAQ	025.901TX.0001	PIFA	I-PEX	0.74	WCDMA Band II
IVIAIII	Corporation	025.90117.0001	FIFA	1-65	0.74	LTE Band 2
Aux	INPAQ Corporation	025.901TY.0001	PIFA	I-PEX	-	RX only

2.2 TEST MODES

Test Items	Band	Test Mode	Note
AC Power Line Conducted Emissions	-	Normal/Idle	-
Padiated Spurious Emissions	WCDMA Band II	TX Mode (CH 9662/9800/9938)	-
Radiated Spurious Emissions	LTE Band 2	TX Mode (CH 18700/18900/19100)	-

NOTE:

- (1) The Radiated emissions test was verified based on the worst conducted power and Bandwidth test results reported in the original report.
- (2) All X, Y and Z axes are evaluated, but only the worst case (WCDMA: Z axis, LTE: Y axis) is recorded.

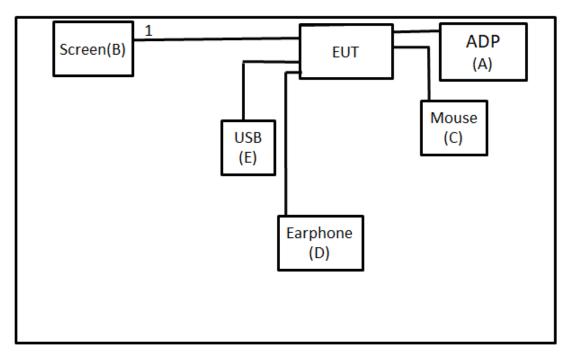
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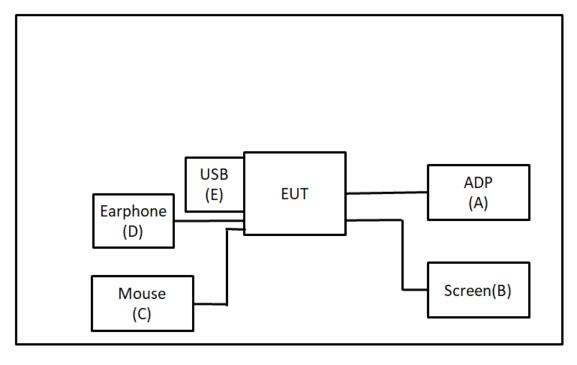
2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Equipment letters and Cable numbers refer to item numbers described in the tables of clause 2.4.

AC Power Line Conducted Emissions Test



Radiated Emissions Test



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2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	ADP	Lenovo	ADLX45YLC3D	N/A	Supplied by test requester.
В	Screen	ASUS	MX27U	N/A	Furnished by test lab.
С	Mouse	ACER	MP-368	N/A	Furnished by test lab.
D	Earphone	Sony	MDR-E9LP	N/A	Furnished by test lab.
E	USB	Kingston	C7052-322.AOOL F	N/A	Furnished by test lab.

Ite	em	Shielded	Ferrite Core	Length	Cable Type	Remarks
<u> </u>	1	N/A	N/A	1.8m	HDMI Cable	Furnished by test lab.



3 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1 LIMIT

Frequency	Limit (dBµV)		
(MHz)	Quasi-peak	Average	
0.15 - 0.5	66 - 56 *	56 - 46 *	
0.50 - 5.0	56	46	
5.0 - 30.0	60	50	

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
38.22	+	3.45	II	41.67

Measurement Value		Limit Value		Margin Level
41.67	-	60	=	-18.33

The following table is the setting of the receiver.

Receiver Parameter	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 KHz

3.2 TEST PROCEDURE

- a. The EUT was placed 0.8 m above the horizontal ground plane with the EUT being connected to the power mains through a line impedance stabilization network (LISN).
 - All other support equipment were powered from an additional LISN(s).
 - The LISN provides 50 Ohm/50uH of impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle to keep the cable above 40 cm.
- c. Excess I/O cables that are not connected to a peripheral shall be bundled in the center.
 - The end of the cable will be terminated, using the correct terminating impedance.
 - The overall length shall not exceed 1 m.
- d. The LISN is spaced at least 80 cm from the nearest part of the EUT chassis.
- e. For the actual test configuration, please refer to the related Item EUT TEST PHOTO.

NOTE:

- (1) In the results, each reading is marked as Peak, QP or AVG per the detector used. BW=9 kHz (6 dB Bandwidth)
- (2) All readings are Peak unless otherwise stated QP or AVG in column of Note. Both the QP and the AVG readings must be less than the limit for compliance.

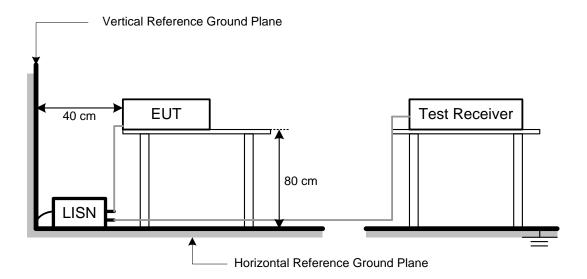
3.3 DEVIATION FROM TEST STANDARD

No deviation.

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3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.

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4 RADIATED SPURIOUS EMISSIONS MEASUREMENT

4.1 LIMIT

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB. The emission limit equal to -13dBm.

NOTE:

(1) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)

Margin Level = Measurement Value - Limit Value

Calculation example:

Reading Level		Correct Factor		Measurement Value
-50.43	+	-2.11	=	-52.54

Measurement Value		Limit Value		Margin Level
-52.54	-	-13	=	-39.54

4.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 6.2.

- a. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value" of step a. Record the power level of S.G
- c. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- d. ERP power can be calculated form EIRP power by subtracting the gain of dipole, ERP power = EIRP power 2.15 dBi.
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is1 MHz / 3 MHz.

4.3 DEVIATION FROM TEST STANDARD

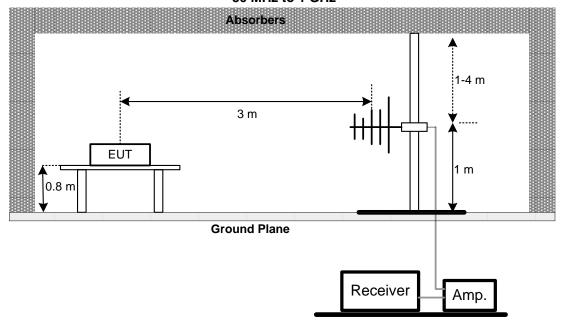
No deviation.

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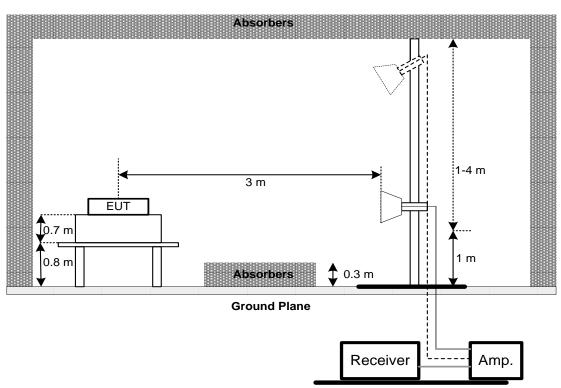


4.4 TEST SETUP

30 MHz to 1 GHz



Above 1 GHz



4.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

4.6 TEST RESULT

Please refer to the APPENDIX B.



5 LIST OF MEASURING EQUIPMENTS

	AC Power Line Conducted Emissions								
Item	Item Kind of Manufacturer Equipment		Type No.	Type No. Serial No.		Calibrated Until			
1	TWO-LINE R&S		ENV216	101050	2020/6/11	2021/6/10			
2	Test Cable	EMCI	EMC400-BM-BM- 5000	170501	2020/6/8	2021/6/7			
3	EMI Test Receiver		ESCI	100080	2020/6/15	2021/6/14			
4	. Measurement		EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A			

			Radiated Emission	ons		Radiated Emissions									
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until									
1	Preamplifier	EMCI	EMC02325B	980217	2020/4/10	2021/4/9									
2	Preamplifier	EMCI	EMC012645B 980267		2020/4/10	2021/4/9									
3	Test Cable	EMCI	EMC-SM-SM-100 0	180809	2020/4/10	2021/4/9									
4	Test Cable	EMCI	EMC104-SM-SM- 3000	151205	2020/4/10	2021/4/9									
5	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2020/4/10	2021/4/9									
6	MXE EMI Receiver	Agilent	N9038A	MY554200087	2020/6/10	2021/6/9									
7	Signal Analyzer	Agilent	N9010A	MY56480554	2020/8/25	2021/8/24									
8	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2020/6/12	2021/6/11									
9	Horn Ant	Schwarzbeck	BBHA 9170	BBHA 9170340	2020/7/9	2021/7/8									
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	VULB 9168-352	2020/7/24	2021/7/23									
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2020/7/24	2021/7/23									
12	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A									
13	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2020/6/4	2021/6/3									
14	Radio Communication Analyzer (LTE)	Anritsu	MT8820C	6201525878	2020/6/3	2021/6/2									
15	Radio Communication Analyzer	Anritsu	MT8821C	6262044728	2020/12/15	2021/12/14									

Remark: "N/A" denotes no model name, no serial no. or no calibration specified. All calibration period of equipment list is one year.





6 EUT TEST PHOTO	
Please refer to document Appendix No.: TP-2102T172A-2 (APPENDIX-TEST PHOTOS).	
7 EUT PHOTOS	
Please refer to document Appendix No.: EP-2102T172A-1 (APPENDIX-EUT PHOTOS).	

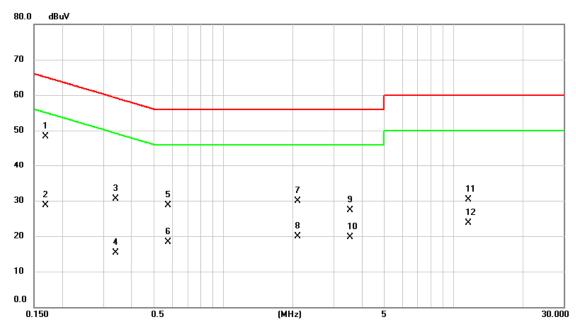
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APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

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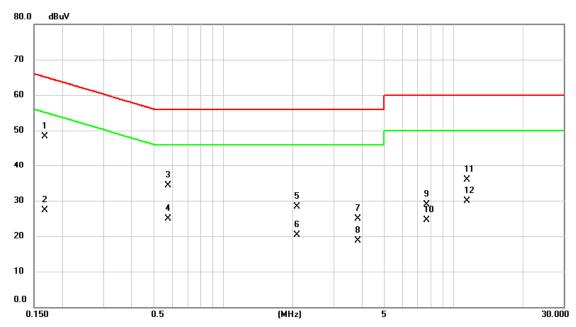
Ш				
	Test Mode	Normal	Tested Date	2021/3/23
	Test Frequency	-	Phase	Line



No. 1	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1685	38.71	9.68	48.39	65.03	-16.64	QP	
2		0.1685	19.08	9.68	28.76	55.03	-26.27	AVG	
3		0.3412	20.75	9.68	30.43	59.17	-28.74	QP	
4		0.3412	5.54	9.68	15.22	49.17	-33.95	AVG	
5		0.5752	19.02	9.68	28.70	56.00	-27.30	QP	
6		0.5752	8.59	9.68	18.27	46.00	-27.73	AVG	
7		2.0963	20.07	9.74	29.81	56.00	-26.19	QР	
8		2.0963	10.25	9.74	19.99	46.00	-26.01	AVG	
9		3.5498	17.43	9.78	27.21	56.00	-28.79	QP	
10		3.5498	9.88	9.78	19.66	46.00	-26.34	AVG	
11		11.5935	20.34	9.93	30.27	60.00	-29.73	QP	
12		11.5935	13.79	9.93	23.72	50.00	-26.28	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

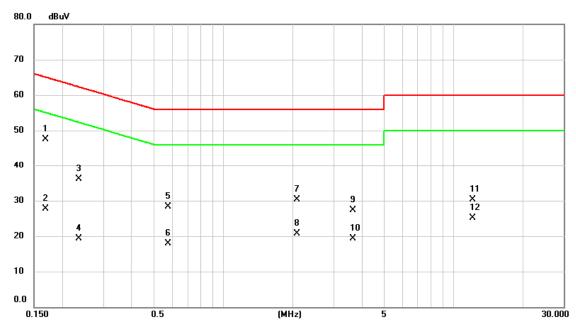
Ш				
	Test Mode	Normal	Tested Date	2021/3/23
	Test Frequency	-	Phase	Neutral



No. 1	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1668	38.72	9.68	48.40	65.12	-16.72	QP	
2		0.1668	17.60	9.68	27.28	55.12	-27.84	AVG	
3		0.5752	24.68	9.68	34.36	56.00	-21.64	QP	
4		0.5752	15.30	9.68	24.98	46.00	-21.02	AVG	
5		2.0805	18.64	9.74	28.38	56.00	-27.62	QP	
6		2.0805	10.53	9.74	20.27	46.00	-25.73	AVG	
7		3.8288	15.11	9.79	24.90	56.00	-31.10	QP	
8		3.8288	8.95	9.79	18.74	46.00	-27.26	AVG	
9		7.6718	18.96	9.88	28.84	60.00	-31.16	QP	
10		7.6718	14.57	9.88	24.45	50.00	-25.55	AVG	
11		11.4720	25.95	9.93	35.88	60.00	-24.12	QP	
12		11.4720	19.96	9.93	29.89	50.00	-20.11	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

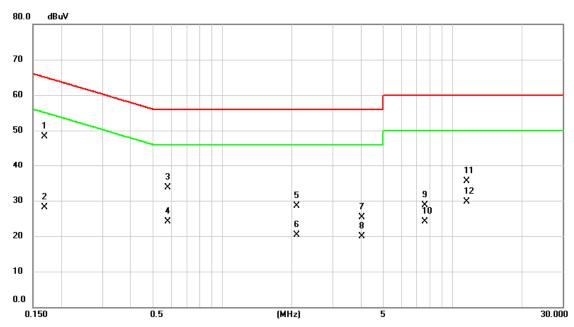
Ш				
	Test Mode	Idle	Tested Date	2021/3/23
	Test Frequency	-	Phase	Line



No. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1 *	*	0.1680	37.78	9.68	47.46	65.06	-17.60	QР	
2		0.1680	18.12	9.68	27.80	55.06	-27.26	AVG	
3		0.2355	26.49	9.68	36.17	62.25	-26.08	QP	
4		0.2355	9.67	9.68	19.35	52.25	-32.90	AVG	
5		0.5775	18.65	9.68	28.33	56.00	-27.67	QP	
6		0.5775	8.16	9.68	17.84	46.00	-28.16	AVG	
7		2.0873	20.57	9.74	30.31	56.00	-25.69	QР	
8		2.0873	10.94	9.74	20.68	46.00	-25.32	AVG	
9		3.6420	17.45	9.79	27.24	56.00	-28.76	QP	
10		3.6420	9.50	9.79	19.29	46.00	-26.71	AVG	
11		12.1403	20.32	9.93	30.25	60.00	-29.75	QP	
12		12.1403	15.14	9.93	25.07	50.00	-24.93	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

Ш				
	Test Mode	Idle	Tested Date	2021/3/23
	Test Frequency	-	Phase	Neutral



No. I	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	*	0.1685	38.68	9.68	48.36	65.03	-16.67	QP	
2		0.1685	18.51	9.68	28.19	55.03	-26.84	AVG	
3		0.5797	24.08	9.68	33.76	56.00	-22.24	QP	
4		0.5797	14.48	9.68	24.16	46.00	-21.84	AVG	
5		2.1008	18.72	9.74	28.46	56.00	-27.54	QP	
6		2.1008	10.50	9.74	20.24	46.00	-25.76	AVG	
7		4.0313	15.45	9.80	25.25	56.00	-30.75	QР	
8		4.0313	10.04	9.80	19.84	46.00	-26.16	AVG	
9		7.6155	18.77	9.88	28.65	60.00	-31.35	QP	
10		7.6155	14.26	9.88	24.14	50.00	-25.86	AVG	
11		11.5260	25.62	9.93	35.55	60.00	-24.45	QP	
12		11.5260	19.82	9.93	29.75	50.00	-20.25	AVG	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



APPENDIX B	RADIATED SPURIOUS EMISSIONS

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	Test Mo	de	V	/CDN	IA Band II		Test	Date		2021	1/3/25	
T	est Cha	nnel			19800		Polar	izatio	า		rtical	
	Temp			2	1°C		Н	um.		6	8%	
0.0 d	3 m											_
-10												
-20												
-30												
-40												1
-50												-
-60		3 X	4 ×									
-70 X	2 X			:	5 X		>	}				
-80.0												
30.000	127.00	224.00	321.	00	418.00	515.00	612.00	709	3.00 806	5.00	1000.00	_ MH:
No.	Mk.	Freq.		iding vel	Correct Factor	Measur ment		mit	Over			
		MHz	dE	3m	dB	dBm	dl	3m	dB	Detector	Comme	ent
1		38.7300	-62	2.47	-1.84	-64.31	1 -13	3.00	-51.31	peak		
2		89.1700		5.01	-1.62	-66.63		3.00	-53.63	peak		
3		221.0900		3.63	3.48	-60.15		3.00	-47.15	peak		
4	*	296.7500		3.30	7.62	-58.68		3.00	-45.68	peak		
5		375.3200		0.00	4.50	-65.50		3.00	-52.50	peak		
6		642.0700	-75	5.73	12.61	-63.12	2 -13	3.00	-50.12	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	-	Test Mo	ode	V	VCDN	/IA Band	ll .		Te	est Date		202	1/3/25	
		est Cha				19800				larizatio	า		zontal	
		Temp)		2	1°C				Hum.		6	8%	
0.0	dB	m												_
10														
20														
30														-
40														-
50	1 X													-
60	×	2 X	3 X	4 ×			5 X					6 ×		
70														
·80.0														
	L 0.000	127.00	D 224.00	321.	00	418.00	515	.00 6	612.0	0 709	9.00 806	.00	1000.00	_мн
N	0.	Mk.	Freq.		ding vel	Correc Factor		easure- ment	-	Limit	Over			
			MHz		3m	dB		dBm		dBm	dB	Detector	Comme	ent
1		*	39.7000	-71	.71	16.97	-	54.74	-	-13.00	-41.74	peak		
2	2		88.2000	-60	.99	4.04	-	56.95	-	-13.00	-43.95	peak		
3	3		224.0000	-62	.10	-0.91	-	63.01		-13.00	-50.01	peak		
4	ļ		296.7500	-58	.59	0.76	-	57.83		-13.00	-44.83	peak		
5	5		491.7200	-73	.85	11.21		62.64		-13.00	-49.64	peak		
6	3		890.3900	-75	.64	15.85		59.79		-13.00	-46.79	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	de	WCDN	/IA Band II		Test Date		202	1/3/23	
-	Test Chan			19662		Polarization			rtical	
	Temp			1°C		Hum.			8%	
40.0 c	1Bm									7
30										-
20		1 X								
10										
o										
10										
20										
30										
-40										
-50										-
-60.0	100 100 00	1050.00	1074.00	1002.00	1010.00	20.00 10	46.00 19 6	24.00	2000 00	<u> </u>
No.	000 1838.00 Mk.	1856.00 Freq.	1874.00 Reading	1892.00 Correct	1910.00 19 Measure-	928.00 194 Limit	оver Over	4.00	2000.00	мн
			Level	Factor	ment					
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	1853.804	-20.29	40.08	19.79	33.01	-13.22	peak		_

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod			/IA Band II		Test Date			1/3/23
	Test Chan	nel		19662		Polarization	on		zontal
	Temp		2	1°C		Hum.		6	8%
10.0	dBm .								
30									
20		1 ×							
0 —									
,									
10 —									
20									
30									
40									
50									
60.0									
	000 1838.00		1874.00	1892.00				4.00	2000.00 MI
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	1853.834	-21.68	40.63	18.95	33.01	-14.06	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	е	WCDN	1A Band II		Test Date	•	202	1/3/23	
-	Test Chanı	nel		9800		Polarizatio	n	Ve	rtical	
	Temp		2	1°C		Hum.		6	8%	
40.0 c	iBm .									1
30										-
20			1 X							
0										
·										
10										
20										
30										
40										
50										-
60.0										
	000 1838.00	1856.00	1874.00	1892.00				4.00	2000.00	MH:
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	1881.296	-19.76	40.20	20.44	33.01	-12.57	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	е	WCDN	1A Band II		Test Date		202	1/3/23	
-	Test Chani	nel		19800		Polarizatio	n	Hori	zontal	
	Temp		2	1°C		Hum.		6	8%	
40.0 c	IBm									7
30										-
20			1 X							
10										
)										
10 -										
20										
30										
40										
-50										-
60.0										
	000 1838.00	1856.00	1874.00	1892.00				4.00	2000.00	MH:
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	1881.080	-21.44	40.73	19.29	33.01	-13.72	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	le.	WCDN	/IA Band II		Test Date		202	1/3/23	
-	Test Chan			19938		Polarization			rtical	
	Temp			1°C		Hum.		68%		
40.0 c	1Bm									1
30										-
					1 ×					1
20					x					
10										
o										
10										
20										
30										
40										
-50										-
-60.0										
	000 1838.00		1874.00	1892.00				4.00	2000.00	MH:
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	nt
1	*	1908.842	-19.70	40.32	20.62	33.01	-12.39	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	lo l	WCDN	IA Band II		Test Date		202	1/3/23	
-	Test Chan			19938		Polarization			zontal	
	Temp	1101		1°C		Hum.		68%		
40.0 c	ßm '									
30]
20					*					
10										
,										
10										1
20										
30										
40										
-50										-
-60.0										
	000 1838.00		1874.00	1892.00				4.00	2000.00	MH:
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	nt
1	*	1908.848	-20.84	40.83	19.99	33.01	-13.02	peak		_

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test M			/IA Band II		Test Date			1/3/23
	Test Cha	annel	CH	19800		Polarizatio	on	Ve	rtical
	Tem	р	2	:1°C		Hum.	6		8%
).O 	dBm								
10									
20 =									
30									
40			1 *						
50			^						
60 <u> </u>									
70									
80									
90									
100.0		00 1005 55	0700.05	0000 00	10500.00	10100 00 7	1000 00 100	100.00	
100t No.	0.000 2900. Mk.		6700.00 Pooding	8600.00 Correct	10500.00 Measure		1300.00 162 Over	200.00	20000.00 MH
INO.	IVIK.	Freq.	Reading Level	Factor	ment	- LITTIIL	Ovei		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5642.333	-48.87	2.38	-46.49	-13.00	-33.49	peak	<u> </u>

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test N	Mode	2	1 V	VCDI	/IA Ban	4 II			Test Da	ato.		202	1/3/23	
	Test Ch			· '		19800	u II			Polarizat				zontal	
	Ter					1°C				Hum.			68%		
D.O	dBm					-									
10															
20															
30															
40				1 X											
50															
60 -															
70 -															
80 - 90 -															
100.0		0.00	4800.00	0.70	2.00	8600.00		10500.00		400.00	14200 00	100	200.00	20000 00 111	
No	0.000 290 . Mk.		Freq.		ding	Corre		Meas		Limit	14300.00	ver	200.00	20000.00 MI	
110	. IVIK.		i i e q.		vel	Fact		mer		LIIIII	O	v GI			
			MHz	dE	3m	dB	1	dBr	n	dBm	(dΒ	Detector	Comment	
1	*	,	5639.167	-47	'.75	2.7	6	-44.9	99	-13.00) -3 ⁻	1.99	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo	ode		LTE	Band 2			Т	est Date	е	2021	1/3/25	
	Test Cha				18900			Po	olarizatio	on	Vertical		
	Temp)		2	1°C				Hum.		68	8%	
0.0	dBm												_
-10													
20													-
-30													
-40													
-50													
	1 × 2 X	3	4 ×	5 X	6								
-70					-								1
-80.0													
30.00	0 127.00	224.00	321.	.00	418.00	51!	5.00	612.	00 7	09.00 806	.00	1000.00	_мн
No.	Mk.	Freq.		ading evel	Corre Facto		leasure ment)-	Limit	Over			
		MHz		3m	dB		dBm		dBm	dB	Detector	Comme	ent
1	*	62.0100	-60).11	-1.55)	-61.66		-13.00	-48.66	peak		
2		98.8700	-67	7.35	0.52		-66.83		-13.00	-53.83	peak		
3		225.9400		0.09	3.63		-66.46		-13.00	-53.46	peak		
4		296.7500	-70).81	7.62		-63.19		-13.00	-50.19	peak		
5		355.9200	-73	3.84	6.14		-67.70		-13.00	-54.70	peak		
6		399.5700	-71	1.25	2.45		-68.80		-13.00	-55.80	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	-	Test	Mod	10			ITF	Ban	d 2			-	Test Date		2021	1/3/25	
		est C						1890					olarizatio	n		zontal	
			mp					1°C					Hum.		68%		
0.0	dB																
10																	
20																	-
30																	
40																	
50																	
60	1 X	-						6 X									
		2 X	X	4 *		5 X											
70																	1
80.Q																	
30	.000	12	7.00	224.00)	321.0	00	418.	00	515.	00	612.	00 709	9.00 806	.00	1000.00	_мн
No).	Mk	•	Freq.		Rea Le			rrect actor		easure ment	-	Limit	Over			
				MHz		dB	m		dB		dBm		dBm	dB	Detector	Comme	ent
1		*		61.040)	-63			5.68	-	57.07		-13.00	-44.07	peak		
2				89.170		-66	.91	3	.83	-	63.08		-13.00	-50.08	peak		
3				134.760	0	-68			.79	-	65.55		-13.00	-52.55	peak		
4				225.940	0	-66	.49	-().76	-	67.25		-13.00	-54.25	peak		
5				296.750	0	-65	.99	C	.76	-	65.23		-13.00	-52.23	peak		
6				399.570	0	-66	35	6	.16	_	60.19		-13.00	-47.19	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod			Band 2		Test Dat			1/3/24
•	Test Chan	nel		18700		Polarizati	on	Ve	rtical
	Temp		2	1°C		Hum.	68%		
10.0	dBm								
30									
20			X						
0									
.									
10									
20									
io									
4 0 —									
50									
60.0	000 1001 55	1000.5	1050.05	1000.00	1000.00	100100	000 00		1050.00
1810. No.	000 1824.00		1852.00	1866.00				22.00	1950.00 M
INO.	Mk.	Freq.	Reading Level	Correct Factor	Measure ment	- Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Commen
1	*	1851.071	-16.22	40.07	23.85	33.01	-9.16	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	le	LTE	Band 2		Test Date		202	1/3/24	
-	Test Chan			18700		Polarizatio			zontal	
	Temp		2	1°C		Hum.		68%		
40.0 c	dBm .									1
30										-
			1 X							1
20										
10										
o										
10										
20										
30										
-40										
50										
60.0										
	000 1824.00		1852.00	1866.00				22.00	1950.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	nt
1	*	1851.319	-17.37	40.62	23.25	33.01	-9.76	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo	ode	LTE	Band 2		Test Da	te	202	1/3/24	
	Test Cha	annel		18900		Polarizat	ion	Ve	rtical	
	Tem	ρ	2	1°C		Hum.		68%		
10.0	dBm									1
30				1						
:0				×						
o										
-										1
10										
20										
30										
40										
50										
60.0										
	.000 1824.0		1852.00	1866.00				22.00	1950.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	nt
1	*	1871.035	-15.47	40.16	24.69	33.01	-8.32	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	le	LTE	Band 2		Test Dat		202	1/3/24	
7	Test Chan	nel		18900		Polarization			Horizontal	
	Temp		2	1°C		Hum.		6	8%	
10.0 d	IB m									1
30				-						-
20				X]
10										
,										
10										
20										1
30 -										
40										
50										-
60.0										
	1824.00		1852.00	1866.00				22.00	1950.00	MH:
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	nt
1	*	1871.203	-15.92	40.69	24.77	33.01	-8.24	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo	de	LTE	Band 2		Test Date	Э	202	1/3/24
	Test Char	nnel	CH	19100		Polarization	on	Ve	rtical
	Temp		2	1°C		Hum.		6	8%
40.0	dBm								
30						4			
20					:	×			
10									
10									
20									
30									
40									
-50									
60.0									
	000 1824.00		1852.00	1866.00				22.00	1950.00 M
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBm	dB	dBm	dBm	dB	Detector	Commen
1	*	1891.009	-16.04	40.24	24.20	33.01	-8.81	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mod	de	LTE	Band 2		Test Dat		202	1/3/24	
٦	Test Chan	nel		19100		Polarizati	on	Hori	zontal	
	Temp		2	1°C		Hum.			68%	
10.0 d	IBm .									1
30										-
20						·×				
10										
) -										
10										
20										
30										
40										
50										
60.0	100 1001 00	1000.00	1050.00	1000.00	1000.00	100100	200.00		1050.00	
	1824.00		1852.00	1866.00				22.00	1950.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	nt
1	*	1891.046	-17.60	40.76	23.16	33.01	-9.85	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test M	ode	I TE	E Band 2		Test Date	2	202	1/3/24	
	Test Cha			118900		Polarizatio			rtical	
	Tem			21°C		Hum.			68%	
0.0	dBm	•								
-10										
20										
30			1 ×							
40										
50										
60										
70										
80										
90										
100.0										
	0.000 2900.			8600.00				200.00	20000.00 MH:	
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment	
1	*	5613.200	-36.57	2.44	-34.13	-13.00	-21.13	peak		

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.

	Test Mo	de	LTE	Band 2		Test Dat	e	202	1/3/24
	Test Chai			18900		Polarization			zontal
	Temp			1°C		Hum.		68%	
0.0	dBm								
10									
20									
30		>	k k						
40									
50									
60 <u> </u>									
70									
BO									
90 -									
100.0 100	0.000 2900.0	0 4800.00	6700.00	8600.00	10500.00	12400.00 1	4300.00 163	200.00	20000.00 MH
No.		Freq.	Reading Level	Correct Factor	Measure ment		Over	200.00	20000.00 MH
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comment
1	*	5613.200	-30.07	2.82	-27.25	-13.00	-14.25	peak	

- (1) Measurement Value = Reading Level + Correct Factor.
 (2) Margin Level = Measurement Value Limit Value.



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	APPENDIX C	REFERENCE INFORMATION
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WCDMA Band II Power:

Band	Mode	UL/DL Channel No.	Frequency(MHz)	Average power(dBm)
WCDMA Band II		9262/9662	1852.4	23.26
	Rel 99	9400/9800	1880.0	23.43
Dana II		9538/9938	1907.6	23.51

Band	Sub-test	UL/DL	Average
		Channel No.	power(dBm)
		9262/9662	21.18
	1	9400/9800	21.94
		9538/9983	21.99
		9262/9662	20.70
	2	9400/9800	21.46
HSDPA II		9538/9983	21.51
HODPA II		9262/9662	20.28
	3	9400/9800	21.04
		9538/9983	21.09
		9262/9662	21.09
	4	9400/9800	21.85
		9538/9983	21.90

Band	Sub-test	UL/DL	Average
Dana	Oub test	Channel No.	power(dBm)
		9262/9662	20.36
	1	9400/9800	20.43
		9538/9983	20.06
		9262/9662	18.41
	2	9400/9800	18.48
		9538/9983	18.11
		9262/9662	19.50
HSUPA II	3	9400/9800	19.57
		9538/9983	19.20
		9262/9662	
	4	9400/9800	18.71
		9538/9983	18.34
		9262/9662	20.29
	5	9400/9800	20.36
		9538/9983	19.99



LTE Band 2 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
					1	0	0	22.11
					1	2	0	21.96
				QPSK	1	5	0	21.77
					3	0	0	22.11
					3	1	0	21.96
					3	2	0	21.77
		40007	1850.7		6	0	1	20.87
		18607	1650.7		1	0	1	21.33
					1	2	1	21.14
					1	5	1	20.88
				16QAM	3	0	1	21.33
					3	1	1	21.14
					3	2	1	20.88
					6	0	2	19.96
					1	0	0	22.21
					1	2	0	22.28
			1880.0		1	5	0	22.10
				QPSK	3	0	0	22.21
				16QAM	3	1	0	22.28
		18900			3	2	0	22.10
2	4.4				6	0	1	21.27
2	1.4				1	0	1	21.39
					1	2	1	21.35
					1	5	1	21.17
					3	0	1	21.39
					3	1	1	21.35
					3	2	1	21.17
					6	0	2	20.50
					1	0	0	22.33
					1	2	0	22.38
					1	5	0	22.21
				QPSK	3	0	0	22.33
					3	1	0	22.38
					3	2	0	22.21
		10100	1000.0		6	0	1	21.39
		19192	1909.2		1	0	1	21.51
					1	2	1	21.47
					1	5	1	21.28
				16QAM	3	0	1	21.51
					3	1	1	21.47
					3	2	1	21.28
					6	0	2	20.60





Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
					1	0	0	22.16
					1	7	0	22.01
					1	14	0	21.82
				QPSK	8	0	1	21.31
					8	4	1	21.09
					8	7	1	21.04
		10015	10E1 E		15	0	1	20.92
		18615	1851.5		1	0	1	21.38
					1	7	1	21.19
					1	14	1	20.93
				16QAM	8	0	2	20.21
					8	4	2	20.19
					8	7	2	19.89
					15	0	2	20.01
		_		_	1	0	0	22.26
					1	7	0	22.33
					1	14	0	22.15
				QPSK	8	0	1	21.37
			1880.0		8	4	1	21.37
				16QAM	8	7	1	21.33
2	3	18900			15	0	1	21.32
2	3				1	0	1	21.44
					1	7	1	21.40
					1	14	1	21.22
					8	0	2	20.27
					8	4	2	20.47
					8	7	2	20.18
					15	0	2	21.30
					1	0	0	22.38
					1	7	0	22.43
					1	14	0	22.26
				QPSK	8	0	1	21.49
					8	4	1	21.47
					8	7	1	21.44
		19184	1908.4		15	0	1	21.44
		13104	1800.4		1	0	1	21.56
					1	7	1	21.52
					1	14	1	21.33
				16QAM	8	0	2	20.39
					8	4	2	20.57
					8	7	2	20.29
					15	0	2	21.10

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Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
					1	0	0	22.21
					1	12	0	22.06
					1	24	0	21.87
				QPSK	12	0	1	21.36
					12	6	1	21.14
					12	11	1	21.09
		18625	1050 F		25	0	1	20.97
		10023	1852.5		1	0	1	21.43
					1	12	1	21.24
					1	24	1	20.98
				16QAM	12	0	2	20.26
					12	6	2	20.24
					12	11	2	19.94
					25	0	2	20.06
		_		_	1	0	0	22.31
					1	12	0	22.38
					1	24	0	22.20
				QPSK	12	0	1	21.42
					12	6	1	21.42
		18900		16QAM	12	11	1	21.38
2	5		1880.0		25	0	1	21.37
2	3				1	0	1	21.49
					1	12	1	21.45
					1	24	1	21.27
					12	0	2	20.32
					12	6	2	20.52
					12	11	2	20.23
					25	0	2	20.46
					1	0	0	22.43
					1	12	0	22.48
					1	24	0	22.31
				QPSK	12	0	1	21.54
					12	6	1	21.52
					12	11	1	21.49
		19175	1907.5		25	0	1	21.49
		13173	1307.3		1	0	1	21.61
					1	12	1	21.57
					1	24	1	21.38
				16QAM	12	0	2	20.44
					12	6	2	20.62
					12	11	2	20.34
					25	0	2	20.58

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Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
			1855.0	QPSK	1	0	0	22.26
					1	24	0	22.11
		18650			1	49	0	21.92
					25	0	1	21.41
					25	12	1	21.19
					25	24	1	21.14
					50	0	1	21.02
				16QAM	1	0	1	21.48
					1	24	1	21.29
					1	49	1	21.03
					25	0	2	20.31
					25	12	2	20.29
					25	24	2	19.99
					50	0	2	20.11
		18900	1880.0		1	0	0	22.36
					1	24	0	22.43
					1	49	0	22.25
	10			QPSK	25	0	1	21.47
					25	12	1	21.47
					25	24	1	21.43
2					50	0	1	21.42
_				16QAM	1	0	1	21.54
					1	24	1	21.50
					1	49	1	21.32
					25	0	2	20.37
					25	12	2	20.57
					25	24	2	20.28
					50	0	2	20.51
		19150	1905.0	QPSK	1	0	0	22.48
					1	24	0	22.53
					1	49	0	22.36
					25	0	1	21.59
					25	12	1	21.57
					25	24	1	21.54
					50	0	1	21.54
				16QAM	1	0	1	21.66
					1	24	1	21.62
					1	49	1	21.43
					25	0	2	20.49
					25	12	2	20.67
					25	24	2	20.39
					50	0	2	20.63

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Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	, ,		, ,		1	0	0	22.31
					1	37	0	22.16
		18675	1857.5	QPSK	1	74	0	21.97
					36	0	1	21.46
					36	18	1	21.24
					36	35	1	21.19
					75	0	1	21.07
				16QAM	1	0	1	21.53
					1	37	1	21.34
					1	74	1	21.08
	15				36	0	2	20.36
					36	18	2	20.34
					36	35	2	20.04
					75	0	2	20.16
		18900	1880.0	QPSK	1	0	0	22.41
					1	37	0	22.48
					1	74	0	22.30
					36	0	1	21.52
					36	18	1	21.52
					36	35	1	21.48
2					75	0	1	21.47
_				16QAM	1	0	1	21.59
					1	37	1	21.55
					1	74	1	21.37
					36	0	2	20.42
					36	18	2	20.62
					36	35	2	20.33
					75	0	2	20.56
		19125	1902.5	QPSK	1	0	0	22.53
					1	37	0	22.58
					1	74	0	22.41
					36	0	1	21.64
					36	18	1	21.62
					36	35	1	21.59
				16QAM	75	0	1	21.59
					1	0	1	21.71
					1	37	1	21.67
					1	74	1	21.48
					36	0	2	20.54
					36	18	2	20.72
					36	35	2	20.44
		L	<u> </u>		75	0	2	20.68



Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power (dBm)
	, ,		, ,		1	0	0	22.36
					1	49	0	22.21
		18700	1860.0	QPSK	1	99	0	22.02
					50	0	1	21.47
					50	24	1	21.25
					50	49	1	21.20
					100	0	1	21.08
				16QAM	1	0	1	21.54
					1	49	1	21.35
					1	99	1	21.09
					50	0	2	20.37
					50	24	2	20.35
					50	49	2	20.05
					100	0	2	20.17
		18900	1880.0	QPSK	1	0	0	22.42
					1	49	0	22.49
					1	99	0	22.31
	20				50	0	1	21.53
					50	24	1	21.53
					50	49	1	21.49
					100	0	1	21.48
2				16QAM	1	0	1	21.60
					1	49	1	21.56
					1	99	1	21.38
					50	0	2	20.43
					50	24	2	20.63
					50	49	2	20.34
					100	0	2	20.57
		19100	1900.0	QPSK	1	0	0	22.54
					1	49	0	22.59
					1	99	0	22.42
					50	0	1	21.65
					50	24	1	21.63
					50	49	1	21.60
					100	0	1	21.60
				16QAM	1	0	1	21.72
					1	49	1	21.68
					1	99	1	21.49
					50	0	2	20.55
					50	24	2	20.73
					50	49	2	20.45
					100	0	2	20.69

End of Test Report

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