

0659



FCC Radio Test Report FCC ID: 2AJN7-TP00143AL

Report No. : BTL-FCCP-14-2112T127
Equipment : Notebook Computer

TD00142AL

Model Name : TP00143AL Brand Name : Lenovo

Applicant: LC Future Center

Address : 7F., No. 780, Beian Rd., Zhongshan Dist., Taipei City 104, Taiwan

Manufacturer : Lenovo PC HK Limited

Address : 23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong

Kong, P.R. China

Radio Function : LTE Band 14

FCC Rule Part(s) : FCC CFR Title 47, Part 90(R)

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

FCC KDB 971168 D01 Power Meas License Digital Systems v03r01

Date of Receipt : 2022/1/13

Date of Test : 2022/1/13 ~ 2022/3/11

Issued Date : 2022/3/31

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

Prepared by : Eric Lee, Engineer

Approved by : Jewy (hung

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Jerry Chuang, Supervisor

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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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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-14-2112T127	R00	Original Report.	2022/3/31	Valid

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SUMMARY OF TEST RESULTS

Test procedures according to the technical standards.

Standard(s) Section	Description	Test Result	Judgement	Remark
15.207	AC Power Line Conducted Emissions	APPENDIX A	Pass	
2.1046 90.542 (a)(7)	Conducted Output Power Effective Radiated Power	APPENDIX B	Pass	
-	Peak To Average Ratio	NOTE (3)	Pass	
2.1049	Occupied Bandwidth	NOTE (3)	Pass	
2.1053 90.543 (e)(2)(3)	Band Edge Measurements	NOTE (3)	Pass	
2.1051 90.210(n)	Mask Measurements	NOTE (3)	Pass	
2.1053 90.543 (e)(3)	Conducted Spurious Emissions	NOTE (3)	Pass	
2.1055 90.539 (e)	Frequency Stability Temperature & Voltage	NOTE (3)	Pass	
2.1053 90.543 (e)(3) 90.543 (f)	Radiated Spurious Emissions	APPENDIX C	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) This item is demonstrated to full compliance referring to the test report number FG0O3022D of the integrated module (model name: L860-GL-16, FCC ID: ZMOL860GL16), according to KDB 996369 D02
- (4) The ac power lines conducted emissions and radiated emissions are tested to demonstrate full compliance of both module integrated into the host and host itself.

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□ CB16

1.1 TEST FACILITY

	The test facilities	used to	collect the	test data	in this	report:
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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: 674415 and DN: TW0659.

he test sites and facilities are covered under FCC RN: 674415 and DN: TW0659. \square CB08 \square CB11 \square CB15

⊠ SR05

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 $\mathbf{95}$ %. 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}_{cispr} requirement.

A. AC power line conducted emissions test:

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

B. Effective Radiated Power and Radiated emissions test:

Test Site	Measurement Frequency Range	U,(dB)
	0.03 GHz ~ 0.2 GHz	4.17
CB15	0.2 GHz ~ 1 GHz	4.72
	1 GHz ~ 6 GHz	5.21
	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

[<u> </u>			
Test Item	Environment Condition	Test Voltage	Tested by
AC Power Line Conducted Emissions	23 °C, 60 %	AC 120V	Angela Wang
Conducted Output Power	23.5 °C, 58.5 %	AC 120V	William Wei
Effective Radiated Power	Refer to data	AC 120V	Vincent Lee
Radiated Spurious Emissions	Refer to data	AC 120V	Vincent Lee Eddie Lee

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2 GENERAL INFORMATION

2.1 DESCRIPTION OF EUT

Equipment	Notebook Computer					
Model Name	TP00143AL	-				
Brand Name	Lenovo					
Model Difference	N/A					
Power Source		DC voltage supplied from External Power Supply. (Lenovo/ ADL135SLC3A, ADL135SCC2A)				
Power Rating	I/P: 100-240V~ 2.5A 50-60Hz O/P: DC20.0V 6.75A 135.0W					
WWAN Module	Fibocom / L860-GL-16					
Operation Frequency	Band UL Frequency (MHz) DL Frequency (MHz)			requency (MHz)		
Operation requestey	LTE 14	788 ~ 798	3		758 ~ 768	
	Band	BW (MHz)	Мо	de	Power (W)	
		5	QP	SK	0.114	
Maximum ERP	LTE 14	3	16Q	AM	0.089	
	LIE 14	10	QP	SK	0.116	
	10 16QAM 0.090					
Test Model	TP00143AL					
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	AWAN	DC33001WF00	PIFA	I-PEX	-2.05	LTE Band 14
Aux	AWAN	DC33001WF10	PIFA	I-PEX	-	RX only

2.2 TEST MODES

Test Items	Band	Test Mode	Note
AC Power Line Conducted Emissions	-	Normal/Idle	-
Conducted Output Power	LTE Band 14	Refer to APPENDIX B	-
Effective Radiated Power	LTE Band 14	TX Mode (CH 23330)	-
Radiated Spurious Emissions	LTE Band 14	TX Mode (CH 23330)	-

NOTE:

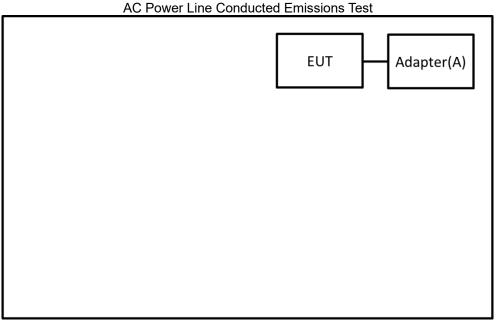
- (1) All X, Y and Z axes are evaluated, but only the worst case (Y axis) is recorded.
- (2) For Radiated Spurious Emissions both QPSK and 16QAM are evaluated, but only the worst case (QPSK) is recorded.

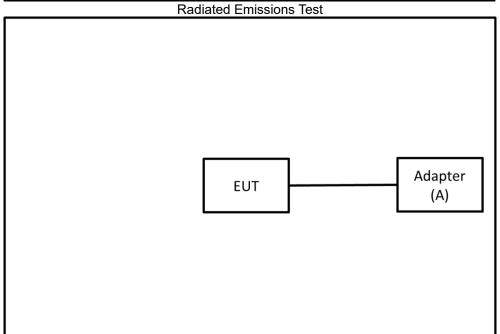
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2.3 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

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





2.4 SUPPORT UNITS

Item	Equipment	Brand	Model No.	Series No.	Remarks
Α	Adapter	Lenovo	ADL135SLC3A	N/A	Supplied by test requester.

Item	Shielded	Ferrite Core	Length	Cable Type	Remarks
-	-	-	-	-	-



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:

Carculation oxampio.					
Reading Level		Correct Factor		Measurement Value	
38.22	+	3.45	=	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.

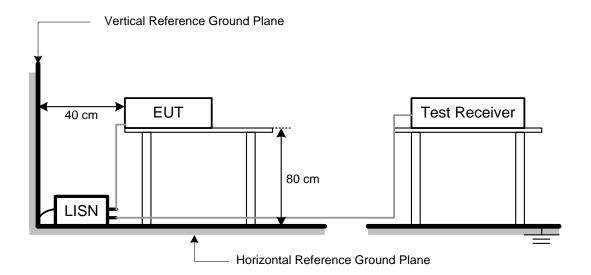
3.3 DEVIATION FROM TEST STANDARD

No deviation.

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3.4 TEST SETUP



3.5 TEST RESULT

Please refer to the APPENDIX A.



4 EFFECTIVE RADIATED POWER MEASUREMENT

4.1 LIMIT

Mobile / Portable station are limited to 3 watts e.r.p.

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
-29.66	+	34.26	II	4.60

Measurement Value		Limit Value		Margin Level
4.60	-	38.45	=	-33.85

4.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 5.8.

- a. Substitution method is used for E.I.R.P measurement. 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 can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR 2.15dBi..
- e. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

4.3 DEVIATION FROM TEST STANDARD

No deviation.

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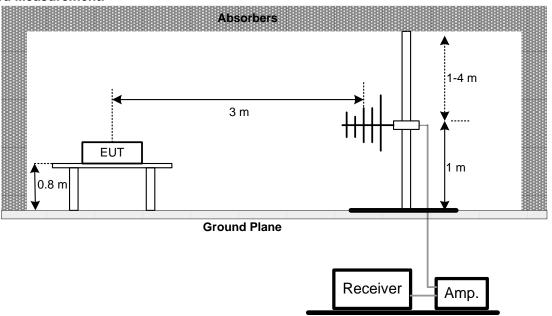


4.4 TEST SETUP

Conducted Measurement:



Radiated Measurement:



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.

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5 RADIATED SPURIOUS EMISSIONS MEASUREMENT

5.1 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 measurements of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.
- (2) 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	II	-52.54

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

5.2 TEST PROCEDURE

The testing follows FCC KDB 971168 v03r01 Section 6.2.

- f. Substitution method is used for E.I.R.P measurement. 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.
- g. 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
- h. EIRP = Output power level of S.G TX cable loss + Antenna gain of substitution horn.
- i. ERP can be calculated form EIRP by subtracting the gain of dipole, ERP = EIPR 2.15dBi..
- j. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

5.3 DEVIATION FROM TEST STANDARD

No deviation.

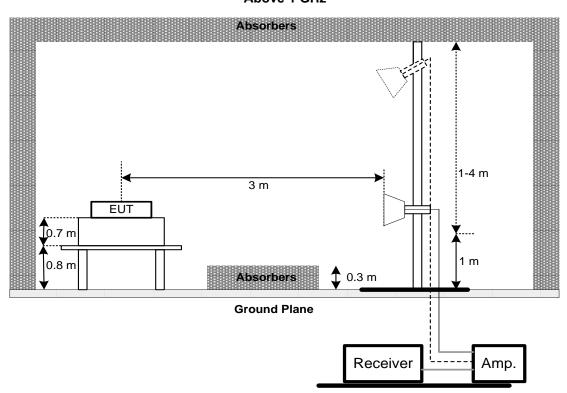
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5.4 TEST SETUP

Absorbers Absorbers Ground Plane Receiver Amp.

Above 1 GHz



5.5 EUT OPERATING CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

5.6 TEST RESULT

Please refer to the APPENDIX C.

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LIST OF MEASURING EQUIPMENTS

		AC Pow	er Line Conducted	d Emissions		
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	TWO-LINE V-NETWORK	R&S	ENV216	101339	2021/3/10	2022/3/9
2	Test Cable	EMCI	EMCCFD300-BM -BMR-6000	170714	2021/6/7	2022/6/6
3	EMI Test Receiver	R&S	ESR 7	101433	2021/11/24	2022/11/23
4	Measurement Software	EZ	EZ_EMC (Version NB-03A1-01)	N/A	N/A	N/A

	Conducted Output Power						
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until	
1	8960 Series 10 Wireless Com Test Set	Agilent	E5515C	GB47390193	2021/7/23	2022/7/22	
2	Radio Communication Analyzer	Anritsu	MT8820C	6201381608	2021/12/15	2022/12/14	

		Effective Radia	ated Power and Ra	adiated Emission	s	
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated Date	Calibrated Until
1	Preamplifier	EMCI	EMC02325	980217	2021/4/8	2022/4/7
2	Preamplifier	EMCI	EMC012645B	980222	2021/4/8	2022/4/7
3	Test Cable	EMCI	EMC104-SM-100 0	180809	2021/4/8	2022/4/7
4	Test Cable	EMCI	EMC104-SM-SM- 3000	151205	2021/4/8	2022/4/7
5	Test Cable	EMCI	EMC-SM-SM-700 0	180408	2021/4/8	2022/4/7
6	MXE EMI Receiver	Agilent	N9038A	MY56400087	2021/5/27	2022/5/26
7	Signal Analyzer	Agilent	N9010A	MY56480554	2021/8/25	2022/8/24
8	Horn Ant	SCHWARZBECK	BBHA 9120D	9120D-1342	2021/6/2	2022/6/1
9	Horn Ant	Schwarzbeck	BBHA 9170	340	2021/7/9	2022/7/8
10	Trilog-Broadband Antenna	Schwarzbeck	VULB 9168	9168-352	2021/8/11	2022/8/10
11	5dB Attenuator	EMCI	EMCI-N-6-05	AT-N0625	2021/8/11	2022/8/10
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	2021/7/23	2022/7/22
14	Radio Communication Analyzer (LTE)	Anritsu	MT8821C	6262044728	2021/11/28	2022/11/27

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



7 EUT TEST PHOTO			
Please refer to document Appendix No.: TP-2112T127-1 (APPENDIX-TEST PHOTOS).			
B EUT PHOTOS			
Please refer to document Appendix No.: EP-2112T127-1 (APPENDIX-EUT PHOTOS).			

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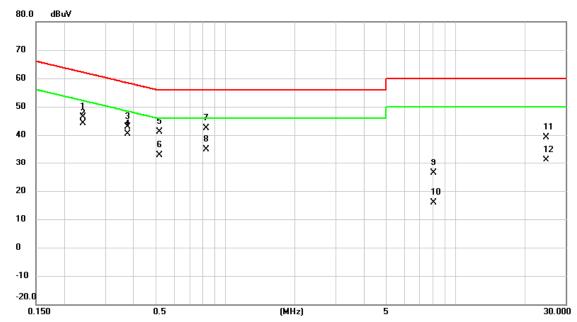


APPENDIX A	AC POWER LINE CONDUCTED EMISSIONS

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Test Mode	Normal	Tested Date	2022/2/16
Test Frequency	-	Phase	Line

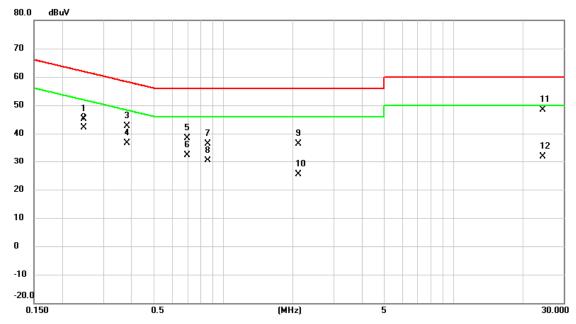


No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.2400	36.70	9.72	46.42	62.10	-15.68	QP	
2	0.2400	34.34	9.72	44.06	52.10	-8.04	AVG	
3	0.3772	33.21	9.72	42.93	58.34	-15.41	QP	
4 *	0.3772	30.69	9.72	40.41	48.34	-7.93	AVG	
5	0.5190	31.49	9.73	41.22	56.00	-14.78	QP	
6	0.5190	23.23	9.73	32.96	46.00	-13.04	AVG	
7	0.8272	32.56	9.74	42.30	56.00	-13.70	QP	
8	0.8272	25.06	9.74	34.80	46.00	-11.20	AVG	
9	8.0520	16.43	10.06	26.49	60.00	-33.51	QP	
10	8.0520	5.78	10.06	15.84	50.00	-34.16	AVG	
11	24.6525	28.97	10.24	39.21	60.00	-20.79	QP	
12	24.6525	20.84	10.24	31.08	50.00	-18.92	AVG	

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



Ш					1
	Test Mode	Normal	Tested Date	2022/2/16	
	Test Frequency	-	Phase	Neutral	



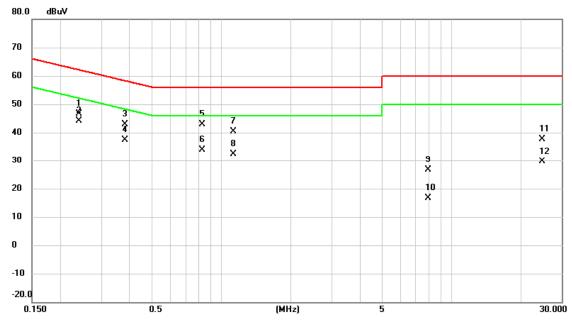
No. Mk	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1	0.2468	35.34	9.72	45.06	61.86	-16.80	QР	
2 *	0.2468	32.44	9.72	42.16	51.86	-9.70	AVG	
3	0.3817	32.96	9.73	42.69	58.24	-15.55	QP	
4	0.3817	26.99	9.73	36.72	48.24	-11.52	AVG	
5	0.6990	28.70	9.74	38.44	56.00	-17.56	QP	
6	0.6990	22.76	9.74	32.50	46.00	-13.50	AVG	
7	0.8587	26.55	9.75	36.30	56.00	-19.70	QР	
8	0.8587	20.65	9.75	30.40	46.00	-15.60	AVG	
9	2.1188	26.67	9.78	36.45	56.00	-19.55	QP	
10	2.1188	15.59	9.78	25.37	46.00	-20.63	AVG	
11	24.4298	38.03	10.41	48.44	60.00	-11.56	QP	
12	24.4298	21.56	10.41	31.97	50.00	-18.03	AVG	

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

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Ш					
	Test Mode	Idle	Tested Date	2022/2/16	
	Test Frequency	-	Phase	Line	



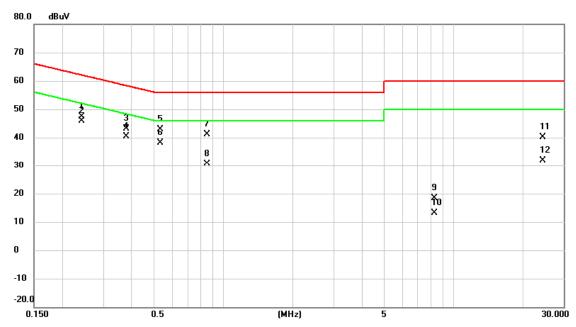
No. N	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		0.2400	36.86	9.72	46.58	62.10	-15.52	QP	
2	*	0.2400	34.53	9.72	44.25	52.10	-7.85	AVG	
3		0.3817	33.21	9.72	42.93	58.24	-15.31	QP	
4		0.3817	27.63	9.72	37.35	48.24	-10.89	AVG	
5		0.8250	33.19	9.74	42.93	56.00	-13.07	QP	
6		0.8250	24.12	9.74	33.86	46.00	-12.14	AVG	
7		1.1242	30.66	9.74	40.40	56.00	-15.60	QР	
8		1.1242	22.63	9.74	32.37	46.00	-13.63	AVG	
9		7.9148	16.47	10.05	26.52	60.00	-33.48	QP	
10		7.9148	6.52	10.05	16.57	50.00	-33.43	AVG	
11		24.6480	27.37	10.24	37.61	60.00	-22.39	QP	
12		24.6480	19.51	10.24	29.75	50.00	-20.25	AVG	

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

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Ш					1
	Test Mode	Idle	Tested Date	2022/2/16	
	Test Frequency	-	Phase	Neutral	



No. N	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBu∨	dBu∨	dB	Detector	Comment
1		0.2423	37.60	9.72	47.32	62.02	-14.70	QР	
2	*	0.2423	36.16	9.72	45.88	52.02	-6.14	AVG	
3		0.3795	33.46	9.73	43.19	58.29	-15.10	QP	
4		0.3795	30.71	9.73	40.44	48.29	-7.85	AVG	
5		0.5347	33.14	9.74	42.88	56.00	-13.12	QP	
6		0.5347	28.43	9.74	38.17	46.00	-7.83	AVG	
7		0.8475	31.31	9.75	41.06	56.00	-14.94	QP	
8		0.8475	20.86	9.75	30.61	46.00	-15.39	AVG	
9		8.2703	8.38	10.10	18.48	60.00	-41.52	QP	
10		8.2703	2.96	10.10	13.06	50.00	-36.94	AVG	
11	2	24.4410	29.74	10.41	40.15	60.00	-19.85	QP	
12		24.4410	21.53	10.41	31.94	50.00	-18.06	AVG	

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

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Conducted Output Power and Calculated ERP:

LTE Band 14 Power:

Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power	ERP power (dBm)	ERP power (W)
	(1711 12)		(1011 12)		1	0	0	24.67	20.47	0.111
					1	12	0	24.56	20.36	0.109
				QPSK	1	24	0	24.50	20.30	0.107
					12	0	1	23.68	19.48	0.089
				Qi Oit	12	6	1	23.55	19.35	0.086
					12	11	1	23.46	19.26	0.084
					25	0	1	23.62	19.42	0.087
		23305	790.5		1	0	1	23.60	19.40	0.087
					1	12	1	23.46	19.26	0.084
					1	24	1	23.38	19.18	0.083
				16QAM	12	0	2	22.67	18.47	0.070
					12	6	2	22.56	18.36	0.069
					12	11	2	22.50	18.30	0.068
					25	0	2	21.68	17.48	0.056
					1	0	0	24.75	20.55	0.114
					1	12	0	24.64	20.44	0.111
					1	24	0	24.58	20.38	0.109
			QPSK	12	0	1	23.76	19.56	0.090	
			QI SIX	12	6	1	23.63	19.43	0.088	
				12	11	1	23.54	19.34	0.086	
			793.0		25	0	1	23.70	19.50	0.089
14	5	23330			1	0	1	23.68	19.48	0.089
				16QAM	1	12	1	23.54	19.34	0.086
					1	24	1	23.46	19.26	0.084
					12	0	2	22.75	18.55	0.072
					12	6	2	22.64	18.44	0.070
					12	11	2	22.58	18.38	0.069
					25	0	2	21.76	17.56	0.057
					1	0	0	24.72	20.52	0.113
					1	12	0	24.61	20.41	0.110
					1	24	0	24.55	20.35	0.108
				QPSK	12	0	1	23.73	19.53	0.090
				α. σ. τ	12	6	1	23.60	19.40	0.087
					12	11	1	23.51	19.31	0.085
					25	0	1	23.67	19.47	0.089
		23355	795.5		1	0	1	23.65	19.45	0.088
			1		1	12	1	23.51	19.31	0.085
					1	24	1	23.43	19.23	0.084
				16QAM	12	0	2	22.72	18.52	0.004
				IOQAM	12	6	2	22.72	18.41	0.069
					12	11	2	22.55	18.35	0.069
					25	0	2	21.73	17.53	0.068
		l	L		25	U		21.13	17.55	0.037

NOTE:

(1) EIRP = Average power + Antenna gain.

(2) ERP = EIRP - 2.15. (3) P(W) = 1 W \cdot 10^{(P(dBm)/10)} / 1000

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Band	BW (MHz)	Channel	Frequency (MHz)	Mode	UL RB Allocation	UL RB Offset	MPR	Average power	ERP power (dBm)	ERP power (W)						
	, ,				1	0	0	24.83	20.63	0.116						
					1	24	0	24.72	20.52	0.113						
					1	49	0	24.66	20.46	0.111						
				QPSK	25	0	1	23.84	19.64	0.092						
											25	12	1	23.71	19.51	0.089
		23330	793.0		25	24	1	23.62	19.42	0.087						
14	10				50	0	1	23.78	19.58	0.091						
14	10	23330			1	0	1	23.76	19.56	0.090						
					1	24	1	23.62	19.42	0.087						
					1	49	1	23.54	19.34	0.086						
				16QAM	25	0	2	22.83	18.63	0.073						
					25	12	2	22.72	18.52	0.071						
					25	24	2	22.66	18.46	0.070						
					50	0	2	21.84	17.64	0.058						

NOTE:

- (1) EIRP = Average power + Antenna gain. (2) ERP = EIRP 2.15. (3) P(W) = 1 W · 10^{(P(dBm) / 10)} / 1000

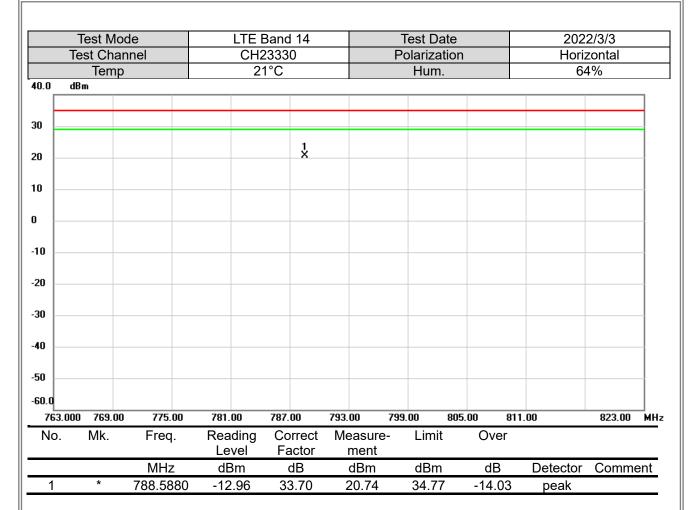
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Radia		Power:								
	Test M			Band 14		Test Date			2/3/3	
	Test Ch			23330		Polarizatio	n		tical	
	Tem	ıp	2	1°C		Hum.		64	1%	
40.0	dBm									7
30										1
50										7
20 _				1 X						-
10				×						-
o										-
-10										
-20										
-30										-
-40										-
-50 _										-
-60.0										
763.			781.00	787.00				1.00	823.00	МН
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	- Limit	Over			
		MHz	dBm	dB	dBm	dBm	dB	Detector	Comme	ent
1	*	788.6440	-18.77	34.17	15.40	34.77	-19.37	peak		

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





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





APPENDIX C RADIATED SPURIOUS EMISSIONS

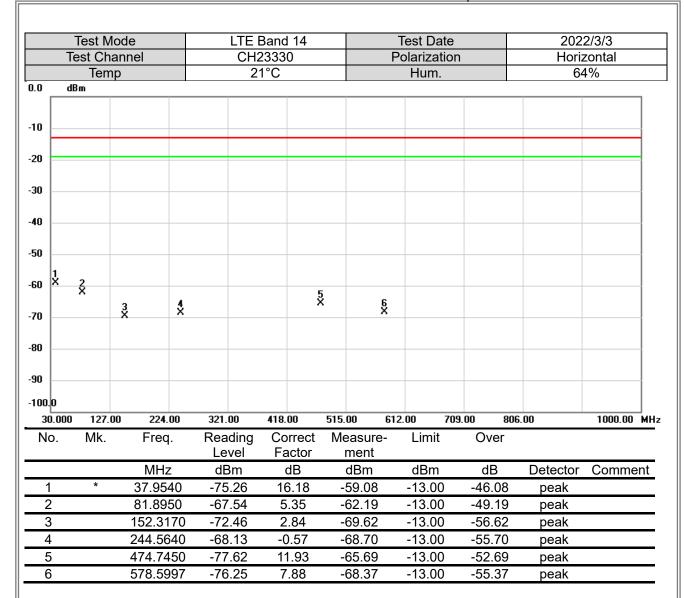
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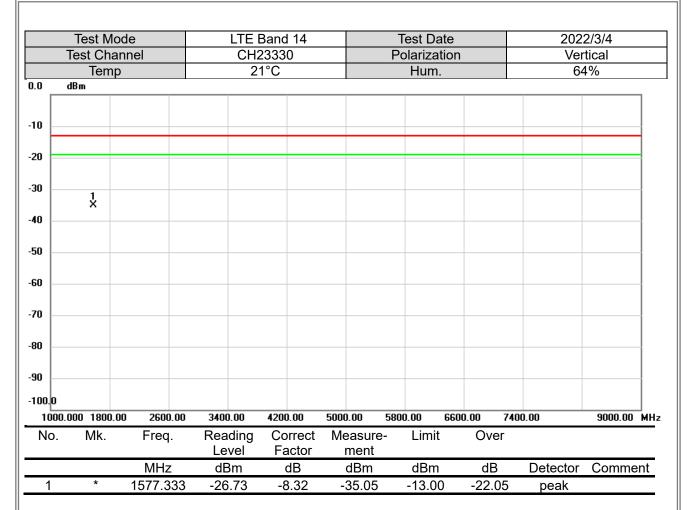
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





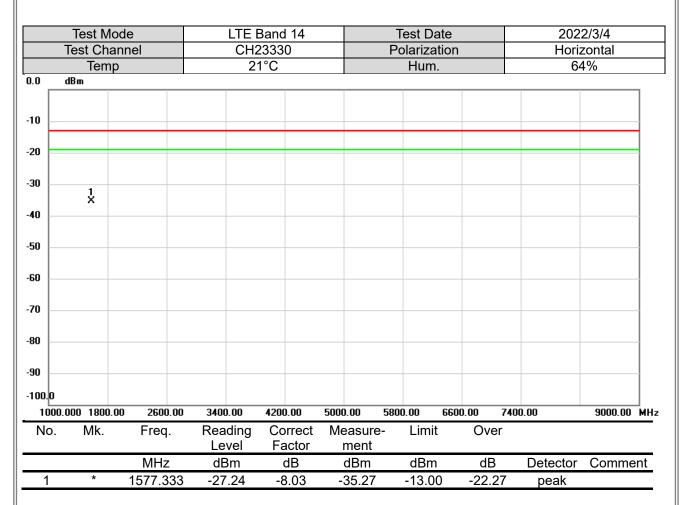
- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value Limit Value.





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





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

End of Test Report