



TEST REPORT

Applicant Name: TECNO MOBILE LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-

25 SHAN MEI STREET FOTAN NT HONGKONG

Report Number: SZ1231211-74617E-RF-00D

FCC ID: 2ADYY-CL7

Test Standard (s) FCC PART 15.225

Sample Description

Product Type: Mobile Phone

Model No.: CL7

Multiple Model(s) No.: N/A

Trade Mark: TECNO

Date Received: 2023/12/11

Issue Date: 2024/03/08

Test Result: Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By: Approved By:

Black Chen Nany Wang

Black Chen Nancy Wang
RF Engineer RF Supervisor

Note: The information marked * is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision	
0	SZ1231211-74617E-RF-00D	Original Report	2024/03/08	

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Product Description for Equipment under Test (EUT)

Product	Mobile Phone
Tested Model	CL7
Multiple Model(s)	N/A
Frequency Range	13.56 MHz
E-field Strength	80.69dBuV/m@3m
Modulation Technique	ASK
Voltage Range	DC 3.91V from battery or DC 4-20V from adapter
Sample serial number	2F2G-4 for Conducted and Radiated Emissions Test 2F2G-1 for RF Conducted Test (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	Model: U700TSA Input: 100~240V, 50/60Hz 2.0A Output: 5.0V, 3.0A 15.0W or 5.0-10.0V, 7.0A MAX or 11.0V, 6.4A MAX or 4.0-20.0V, 3.5A 70.0W MAX

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Objective

This Type approval report is in accordance with Part 2- Subpart J, and Part 15-Subparts A and C of the Federal Communication Commissions rules.

The objective is to determine the compliance of the EUT with FCC rules, section 15.203, 15.205, 15.207, 15.209 and 15.225.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter			Uncertainty		
Occupied Channel Bandwidth			±5%		
	RF Free	quency	213.55Hz(k=2, 95% level of confidence)		
AC Power Lines Cond	ucted	9kHz-150kHz	3.94dB(k=2, 95% level of confidence)		
Emissions		150kHz-30MHz	3.84dB(k=2, 95% level of confidence)		
	9kHz - 30MHz		3.30dB(k=2, 95% level of confidence)		
	30MHz~200MHz (Horizontal)		4.48dB(k=2, 95% level of confidence)		
Radiated Emissions	30MHz~200MHz (Vertical)		4.55dB(k=2, 95% level of confidence)		
	200MHz~1000MHz (Horizontal)		4.85dB(k=2, 95% level of confidence)		
	20	00MHz~1000MHz (Vertical)	5.05dB(k=2, 95% level of confidence)		
Temperature			±1℃		
Humidity			±1%		
Supply voltages			±0.4%		

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Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 715558, the FCC Designation No.: CN5045.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a typical fashion (as normally used by a typical user).

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EUT Exercise Software

No Exercise Software was used.

Equipment Modifications

No modification on the EUT.

Support Equipment List and Details

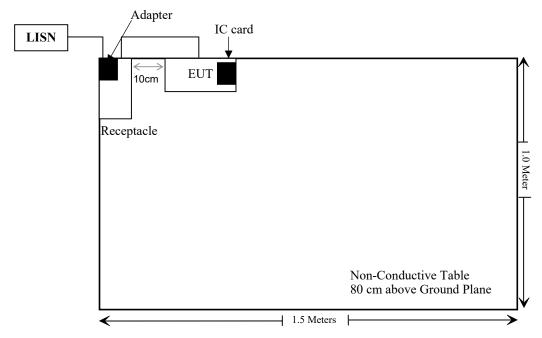
Manufacturer	Description	Model	Serial Number	
Unknown	IC card	Unknown	Unknown	

External I/O Cable

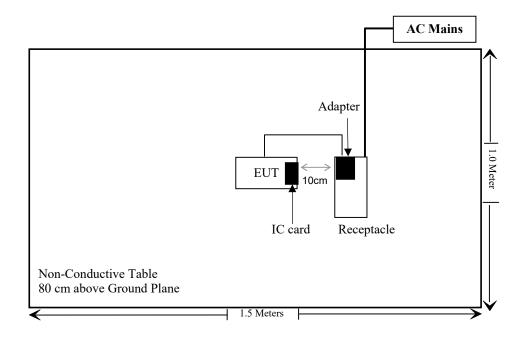
Cable Description	Length (m)	From Port	To
Un-shielding Detachable USB Cable	1.0	EUT	Adapter

Block Diagram of Test Setup

For Conducted Emission:



For Radiated Emissions:



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FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliant
§1.1310 & §2.1093	RF Exposure	Compliant
§15.207	AC Line Conducted Emission	Compliant
\$15.225 \$15.209\$15.205	Radiated Emission Test	Compliant
§15.225(e)	Frequency Stability	Compliant
§15.215(c)	20dB Emission Bandwidth	Compliant

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Manufacturer	Model	Serial Number	Calibration Date	Calibration Due Date			
Conducted Emissions Test							
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2023/02/08	2024/02/07		
Rohde & Schwarz	LISN	ENV216	101613	2023/02/08	2024/02/07		
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2023/08/03	2024/08/02		
Unknown	CE Cable	CE Cable	UF A210B-1- 0720-504504	2023/08/03	2024/08/02		
Audix	EMI Test software	E3	191218	NCR	NCR		
	Radia	ated Emission T	'est				
R&S	EMI Test Receiver	ESR3	102455	2023/02/08	2024/02/07		
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07		
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2024/07/19		
ETS	ETS Passive Loop Antenna		29604	2023/07/07	2024/07/06		
Unknown	Cable	Chamber Cable 1 Chamber	F-03-EM236	2023/08/03	2024/08/02		
Unknown	Unknown Cable		EC-007	2023/08/03	2024/08/02		
Audix	EMI Test software	E3	19821b(V9)	NCR	NCR		
	Fre	quency Stability	y				
R&S	EMI Test Receiver	ESR3	102455	2023/02/08	2024/02/07		
Sonoma instrument	Pre-amplifier	310 N	186238	2023/06/08	2024/06/07		
ETS	Passive Loop Antenna	6512	29604	2023/07/07	2024/07/06		
BACL	Temperature & Humidity Chamber	BTH-150-40	30145	2023/02/08	2024/02/07		
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR		
Fluke	Digital Multimeter	287	19000011	2023/06/08	2024/06/07		
Unknown	Cable	Chamber Cable 1	F-03-EM236	2023/08/03	2024/08/02		
Unknown Cable		Chamber Cable 4	EC-007	2023/08/03	2024/08/02		

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^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

Applicable Standard

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

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Antenna Connected Construction

The EUT has one internal antenna arrangement for NFC which was permanently attached; fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

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Applicable Standard

According to KDB447498 D01 General RF Exposure Guidance v06: 4.3. General SAR test exclusion guidance

- c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):
- 1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f_{\text{(MHz)}})]$
- 2) For test separation distances \leq 50 mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

5.2 Measurement Result:

For NFC, the power of EUT: E Field@3m is 80.69dBuV/m = -14.51dBm (0.035mW) Note: E[dB μ V/m] = EIRP[dBm] + 95.2 for d = 3 m.

SAR test exclusion threshold for NFC(13.56MHz) separation distance < 50mm

=[474*(1 + log(100/f(MHz)))]/2

=443 mW

>0.035mW

Result: Compliant.

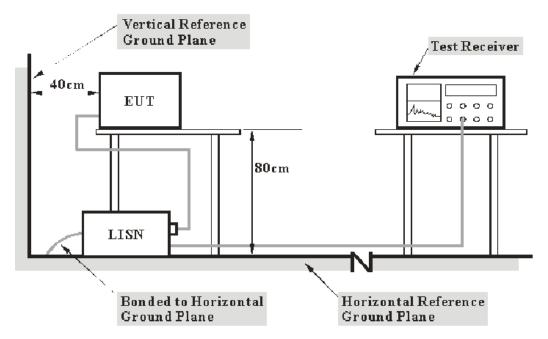
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FCC §15.207 – AC LINE CONDUCTED EMISSION

Applicable Standard

FCC§15.207

EUT Setup



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30MHz	9 kHz

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Test Procedure

During the conducted emission test, the adapter of Host was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Factor & Over Limit Calculation

The factor is calculated by adding LISN VDF (Voltage Division Factor) and Cable Loss. The basic equation is as follows:

```
Factor = LISN VDF + Cable Loss
```

The "Over limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

```
Over Limit = Level – Limit
Level = Read Level + Factor
```

Note: The term "cable loss" refers to the combination of a cable and a 10dB transient limiter (attenuator).

Test Data

Environmental Conditions

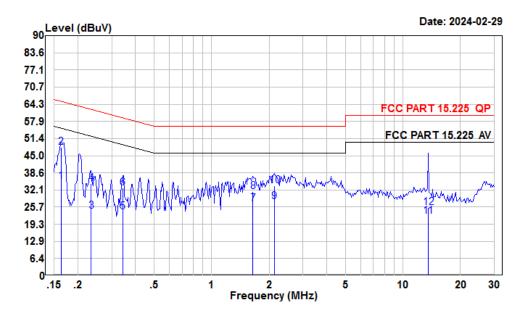
Temperature:	25 °C
Relative Humidity:	51 %
ATM Pressure:	101 kPa

The testing was performed by Macy Shi on 2024-02-29.

Test mode: Transmitting

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AC 120 V/60 Hz, Line



Condition: Line

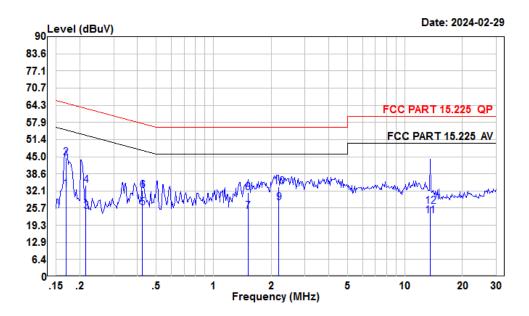
Project : SZ1231211-74617E-RF

Tester : Macy shi Note : NFC

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.16	14.70	35.45	10.60	10.15	55.30	-19.85	Average
2	0.16	27.45	48.20	10.60	10.15	65.30	-17.10	QP
3	0.23	3.44	24.23	10.62	10.17	52.30	-28.07	Average
4	0.23	13.63	34.42	10.62	10.17	62.30	-27.88	QP
5	0.34	3.20	24.01	10.66	10.15	49.13	-25.12	Average
6	0.34	12.18	32.99	10.66	10.15	59.13	-26.14	QP
7	1.65	6.16	27.03	10.77	10.10	46.00	-18.97	Average
8	1.65	10.80	31.67	10.77	10.10	56.00	-24.33	QP
9	2.12	6.67	27.64	10.78	10.19	46.00	-18.36	Average
10	2.12	12.84	33.81	10.78	10.19	56.00	-22.19	QP
11	13.55	1.75	22.35	10.45	10.15	50.00	-27.65	Average
12	13.55	4.99	25.59	10.45	10.15	60.00	-34.41	QP

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AC 120V/ 60 Hz, Neutral



Condition: Neutral

Project : SZ1231211-74617E-RF

Tester : Macy shi Note : NFC

	Freq	Read Level	Level	LISN Factor	Cable Loss	Limit Line	Over Limit	Remark
-	MHz	dBuV	dBuV	dB	dB	dBuV	dB	
1	0.17	12.05	32.78	10.58	10.15			Average
2	0.17	23.80	44.53		10.15		-20.50	_
3	0.22	3.75	24.59	10.71	10.13	53.01	-28.42	Äverage
4	0.22	13.47	34.31	10.71	10.13	63.01	-28.70	QP
5	0.42	4.99	25.97	10.78	10.20	47.37	-21.40	Average
6	0.42	11.42	32.40	10.78	10.20	57.37	-24.97	QP
7	1.51	3.65	24.37	10.66	10.06	46.00	-21.63	Average
8	1.51	10.79	31.51	10.66	10.06	56.00	-24.49	QP
9	2.19	6.78	27.68	10.70	10.20	46.00	-18.32	Average
10	2.19	12.78	33.68	10.70	10.20	56.00	-22.32	QP
11	13.55	2.21	22.94	10.58	10.15	50.00	-27.06	Average
12	13.55	5.62	26.35	10.58	10.15	60.00	-33.65	OP

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Applicable Standard

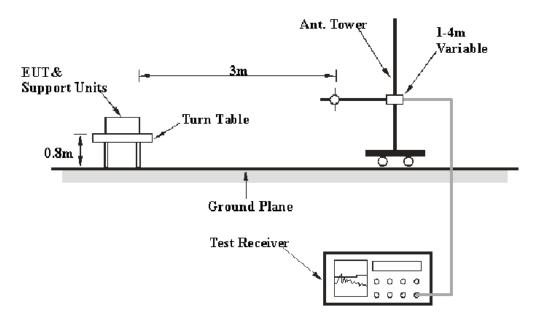
As per FCC Part 15.225

- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

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- (c) Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in $\S15.209$.

EUT Setup



Note: Antenna is set up at 1m during test for below 30MHz.

The radiated emission tests were performed in the 3-meter chamber a test site, using the setup accordance with the ANSI C63.10-2013.

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EMI Test Receiver Setup

According to FCC Rules, 47 CFR 15.33, the EUT emissions were investigated up to 1000 MHz.

During the radiated emission test, the EMI test Receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
9 kHz – 150 kHz	300 Hz	1kHz	/	QP
150 kHz –30MHz	10 kHz	30 kHz	/	QP
30MHz – 1000 MHz	100 kHz	300 kHz	/	QP

Note: detector for 9-90 kHz and 110-490 kHz is average

Level & Over Limit Calculation

The Level is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss- Amplifier Gain Level= Read Level + Factor

The "Over Limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over Limit of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Over Limit = Level - Limit

Test Data

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	54 %
ATM Pressure:	101 kPa

The testing was performed by Warren Huang on 2024-01-22.

Test mode: Transmitting (Pre-scan in the X, Y and Z axes of orientation, the worst case of Y-axis orientation were recorded)

1) Spurious Emissions (9 kHz~30 MHz):

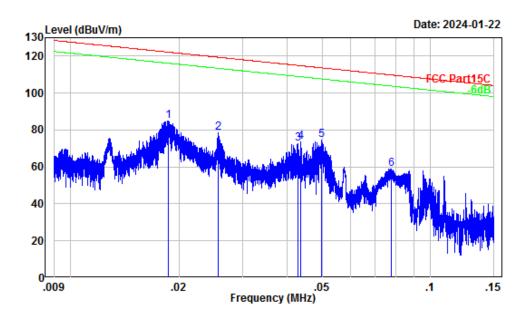
Part 15 Section 15.31(f)(2) (9kHz-30MHz)

Limit @ 3m=Limit @ 300m-40*log(3(m)/300(m))

Limit @ 3m = Limit @ 30m - 40*log(3(m)/30(m))

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Ground-parallel 9 kHz~150 kHz



Site : chamber Condition : 3m

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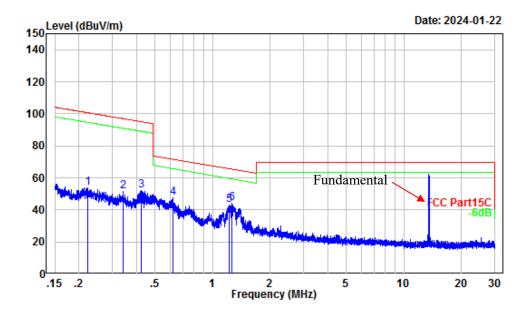
Note : NFC

Note : Ground-parallel Tester : Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.02	50.64	34.45	85.09	122.18	-37.09	Peak
2	0.03	48.46	29.96	78.42	119.38	-40.96	Peak
3	0.04	43.23	29.44	72.67	114.98	-42.31	Peak
4	0.04	42.93	30.73	73.66	114.79	-41.13	Peak
5	0.05	41.08	33.34	74.42	113.67	-39.25	Peak
6	0.08	37.20	21.77	58.97	109.80	-50.83	Peak

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150 kHz~30 MHz



Site : chamber

Condition : 3m

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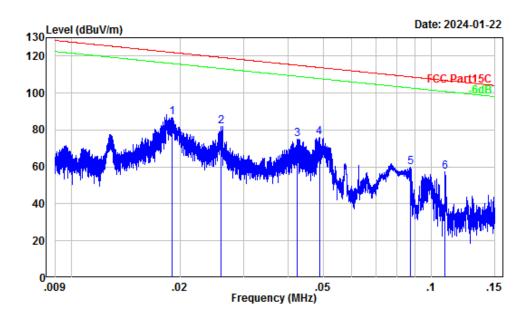
Note : NFC

Note : Ground-parallel Tester : Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.22	28.20	25.79	53.99	100.68	-46.69	Peak
2	0.34	24.15	27.19	51.34	96.94	-45.60	Peak
3	0.43	21.97	30.08	52.05	95.01	-42.96	Peak
4	0.62	19.39	28.04	47.43	71.71	-24.28	Peak
5	1.23	14.32	28.95	43.27	65.65	-22.38	Peak
6	1.26	14.14	29.76	43.90	65.40	-21.50	Peak

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Perpendicular 9 kHz~150 kHz



Site : chamber Condition : 3m

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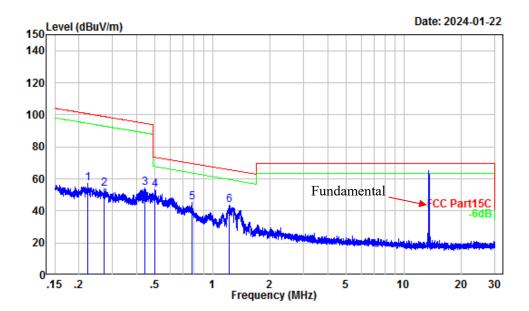
Note : NFC

Note : Perpendicular Tester : Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.02	50.52	36.08	86.60	122.01	-35.41	Peak
2	0.03	48.39	33.49	81.88	119.31	-37.43	Peak
3	0.04	43.35	31.74	75.09	115.06	-39.97	Peak
4	0.05	41.36	34.52	75.88	113.83	-37.95	Peak
5	0.09	35.86	23.91	59.77	108.77	-49.00	Peak
6	0.11	33.67	23.56	57.23	106.85	-49.62	Peak

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150 kHz~30 MHz



Site : chamber

Condition : 3m

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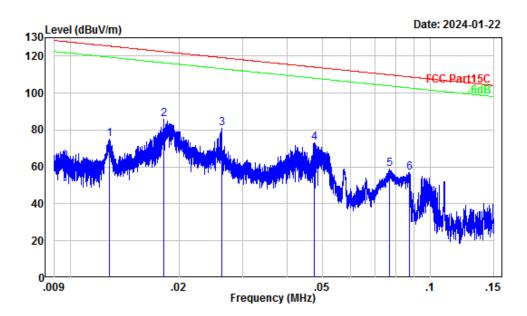
Note : NFC

Note : Perpendicular Tester : Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.22	28.19	29.07	57.26	100.65	-43.39	Peak
2	0.27	26.43	27.62	54.05	98.91	-44.86	Peak
3	0.44	21.73	32.65	54.38	94.66	-40.28	Peak
4	0.50	20.92	32.32	53.24	73.58	-20.34	Peak
5	0.78	17.23	27.84	45.07	69.68	-24.61	Peak
6	1.23	14.32	29.31	43.63	65.65	-22.02	Peak

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Parallel 9 kHz~150 kHz



Site : chamber Condition : 3m

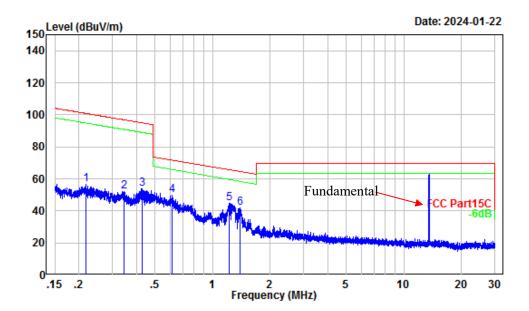
Project Number: SZ1231211-74617E-RF

Note : NFC Note : Parallel Tester : Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.01	52.44	22.59	75.03	125.43	-50.40	Peak
2	0.02	50.80	35.20	86.00	122.42	-36.42	Peak
3	0.03	48.30	32.55	80.85	119.22	-38.37	Peak
4	0.05	41.74	31.46	73.20	114.05	-40.85	Peak
5	0.08	37.30	21.70	59.00	109.88	-50.88	Peak
6	0.09	35.88	21.04	56.92	108.78	-51.86	Peak

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150 kHz~30 MHz



Site : chamber

Condition : 3m

Project Number: SZ1231211-74617E-RF

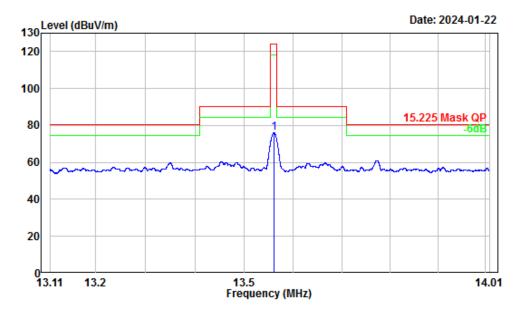
Note : NFC Note : Parallel Tester : Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.22	28.32	28.19	56.51	100.81	-44.30	Peak
2	0.34	24.06	28.08	52.14	96.86	-44.72	Peak
3	0.43	21.91	31.98	53.89	94.92	-41.03	Peak
4	0.61	19.51	30.07	49.58	71.82	-22.24	Peak
5	1.23	14.31	30.64	44.95	65.64	-20.69	Peak
6	1.40	13.48	28.19	41.67	64.51	-22.84	Peak

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2) Emission Mask & Fundamental:

Ground-parallel



Site : chamber

Condition : 3m

Project Number: SZ1231211-74617E-RF

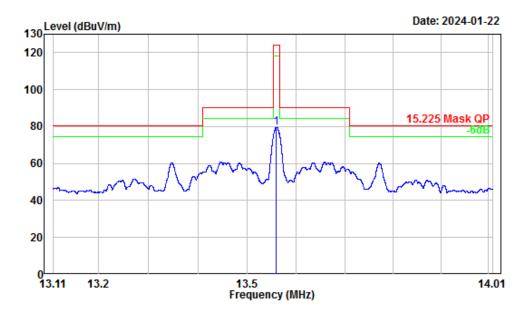
Note : NFC

Note : Ground-parallel Tester : Warren Huang

	Freq	Factor			Limit Line		Remark
		dB/m				dB	
1	13.56	3.11	72.91	76.02	124.00	-47.98	Peak

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Perpendicular



Site : chamber

Condition : 3m

Project Number: SZ1231211-74617E-RF

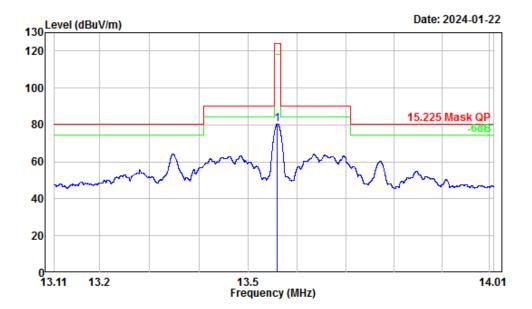
Note : NFC

Note : Perpendicular Tester : Warren Huang

	Freq	Factor		Limit Line		Remark
1		dB/m 3.11		-	dB -44.32	Peak

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Parallel



Site : chamber

Condition : 3m

Project Number: SZ1231211-74617E-RF

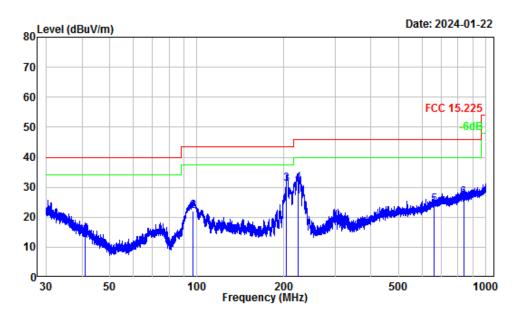
Note : NFC Note : Parallel Tester : Warren Huang

	Freq	Factor	Read Level	Limit Line		Remark
_	MHz	dB/m 3.11		dBuV/m	dB	nl-

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3) Spurious Emissions (30 MHz~1GHz):

Horizontal



Site : chamber

Condition : 3m Horizontal

Project Number: SZ1231211-74617E-RF

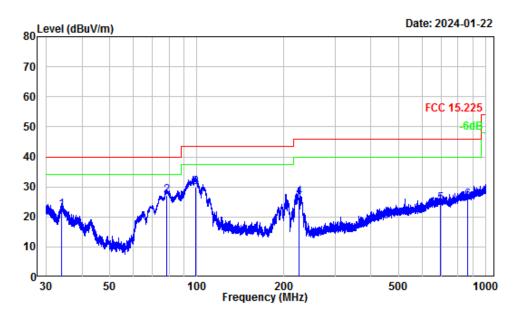
Note : NFC

Tester : Warren Huang

			Read		Limit	0ver	
	Freq	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	41.08	-11.08	25.12	14.04	40.00	-25.96	QP
2	96.94	-14.59	36.55	21.96	43.50	-21.54	QP
3	204.33	-11.10	42.12	31.02	43.50	-12.48	QP
4	223.64	-11.41	42.86	31.45	46.00	-14.55	QP
5	662.31	-2.22	26.37	24.15	46.00	-21.85	QP
6	836.24	-0.02	26.65	26.63	46.00	-19.37	QP

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Vertical



Site : chamber Condition : 3m Vertical

Project Number: SZ1231211-74617E-RF

Note : NFC

Tester : Warren Huang

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	33.89	-8.06	30.30	22.24	40.00	-17.76	QP
2	78.69	-17.23	44.50	27.27	40.00	-12.73	QP
3	99.14	-15.41	45.36	29.95	43.50	-13.55	QP
4		-12.24	38.94	26.70	46.00	-19.30	QP
5	697.16	-1.96	26.51	24.55	46.00	-21.45	QP
6	863.43	0.09	25.44	25.53	46.00	-20.47	QP

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FCC§15.225(e) - FREQUENCY STABILITY

Applicable Standard

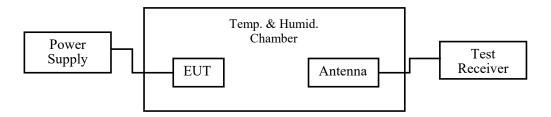
The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power supply and inductive antenna was connected to a Spectrum Analyzer. The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external DC power supply Source. The voltage was set to 115% of the nominal value and was then decreased until the transmitter light no longer illuminated; i.e., the end point. The output frequency was recorded for each voltage.



Test Data

Environmental Conditions

Temperature:	22 °C
Relative Humidity:	54%
ATM Pressure:	101 kPa

The testing was performed by Warren Huang on 2024-01-22...

Test Mode: Transmitting

Test Result: Pass

Report No.: SZ1231211-74617E-RF-00D

Test Item	Temperature (°C)	Voltage (V _{DC})	Measured frequency (MHz)	Frequency Error (%)	Limit (%)
	-20	3.91	13.56125	0.0092	0.01
	-10	3.91	13.56086	0.0063	0.01
_	0	3.91	13.56142	0.0105	0.01
Frequency Stability vs.	10	3.91	13.56188	0.0139	0.01
Temperature	20	3.91	13.56062	0.0046	0.01
Temperature	30	3.91	13.56224	0.0165	0.01
	40	3.91	13.56065	0.0048	0.01
	50	3.91	13.56022	0.0016	0.01
Frequency	20	3.45	13.5595	-0.0037	0.01
Stability vs. Voltage	20	4.45	13.56003	0.0002	0.01

FCC§15.215(c) - 20dBEMISSION BANDWIDTH

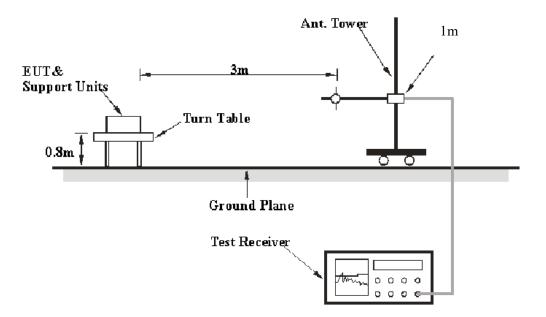
Requirement

Per 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

Report No.: SZ1231211-74617E-RF-00D

Test Procedure

Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.



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Test Data

Environmental Conditions

Temperature:	25.6°C
Relative Humidity:	54.9 %
ATM Pressure:	101 kPa

The testing was performed by Warren Huang on 2024-03-05.

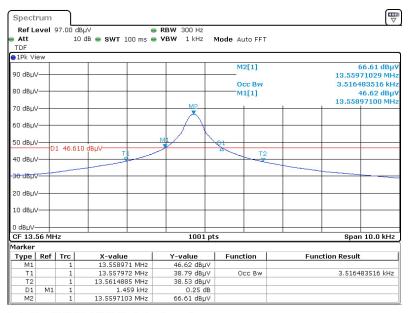
Test Mode: Transmitting

Test Result: Pass

Test Frequency	20dB Bandwidth
(MHz)	(kHz)
13.56	1.459

Report No.: SZ1231211-74617E-RF-00D

20 dB Emission Bandwidth



ProjectNo.:SZ1231211-74617E-RF Tester:Warren Huang

Date: 5.MAR.2024 10:49:44

Bay Area Compliance Laborator	ries Corp. (Shenzhen)	Report No.: SZ1231211-74617E-RF-00D
EUT PHOTOGRAPI	HS	
Please refer to the attachmen photo.	nt SZ1231211-74617E-RF Externa	al photo and SZ1231211-74617E-RF Interna
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Bay Area Compliance Labora	atories Corp. (Snenznen)	Report No.: SZ1231211-	-/401/E-KF-UUD
TEST SETUP PHO	TOGRAPHS		
Please refer to the attachm	nent SZ1231211-74617E-RF Tes	st Setup photo.	
reaso refer to the attachin		w setup photo.	
	***** END OF RE	PORT ****	
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