

FCC RF Test Report

(NFC)

Applicant: TECNO MOBILE LIMITED

Address of Applicant: FLAT 39 8/F BLOCK D WAH LOK INDUSTRIAL CENTRE 31-35 SHAN MEI STREET FOTAN NT

Equipment Under Test (EUT)

Product Name: Mobile Phone

Model No.: CI7n

Trade Mark: TECNO

FCC ID: 2ADYY-CI7N

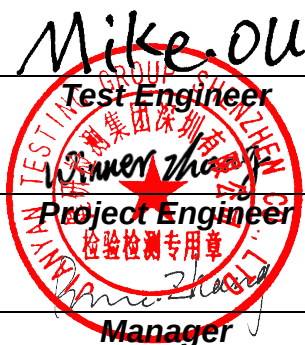
Applicable Standards: FCC CFR Title 47 Part 15C (§15.225)

Date of Sample Receipt: 10 Mar., 2022

Date of Test: 11 Mar., to 14 Apr., 2022

Date of Report Issue: 15 Apr., 2022

Test Result: PASS

Tested by:

Mike Ou

Test Engineer**Date:**

15 Apr., 2022

Reviewed by:

Winner Zhang

Project Engineer**Date:**

15 Apr., 2022

Approved by:

Manager

Date:

15 Apr., 2022

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

This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

2 Version

Version No.	Date	Description
00	15 Apr., 2022	Original

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4 General Information

4.1 Client Information

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

4.2 General Description of E.U.T.

Product Name:	Mobile Phone
Model No.:	CI7n
Operation Frequency:	13.56MHz
Channel Numbers:	1
Modulation Type:	ASK
Antenna Type:	Internal Antenna
Power Supply:	Rechargeable Li-ion Polymer Battery DC3.87V, 4900mAh
AC Adapter:	Model: U330TSA Input: AC 100-240V, 50/60Hz, 0.15A Output: DC 5.0V, 3A or DC 10.0V, 3.3A
Test Sample Condition:	The test samples were provided in good working order with no visible defects.

4.3 Test Mode and Environment

Test Mode:			
Transmitting mode:		Keep the EUT in transmitting mode with modulation	
The EUT was placed on three different polar directions tested: i.e. X axis, Y axis, Z axis. which was shown in this test report and defined as follows:			
Axis	X	Y	Z
Field Strength(dBuV/m)	54.88	56.05	55.67
According to ANSI C63.10 standards, the test results are both the “worst case” and “worst setup”: Y axis (see the test setup photo).			
Operating Environment:			
Temperature:	15℃ ~ 35℃		
Humidity:	20 % ~ 75 % RH		
Atmospheric Pressure:	1010 mbar		

4.4 Description of Support Units

Manufacturer	Description	Model	Serial Number	FCC ID/DoC
N/A	N/A	N/A	N/A	N/A

4.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
Conducted Emission for LISN (9kHz ~ 150kHz)	±3.11 dB
Conducted Emission for LISN (150kHz ~ 30MHz)	±2.62 dB
Radiated Emission (9kHz ~ 30MHz) (3m SAC)	±3.13 dB
Radiated Emission (30MHz ~ 1GHz) (3m SAC)	±4.45 dB
Radiated Emission (1GHz ~ 18GHz) (3m SAC)	±5.34 dB
Note: All the measurement uncertainty value were shown with a coverage k=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.	

4.6 Additions to, Deviations, or Exclusions From the Method

No

4.7 Laboratory Facility

The test facility is recognized, certified, or accredited by the following organizations:

● **FCC - Designation No.: CN1211**

JianYan Testing Group Shenzhen Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551.

● **ISED – CAB identifier.: CN0021**

The 3m Semi-anechoic chamber and 10m Semi-anechoic chamber of JianYan Testing Group Shenzhen Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1.

● **CNAS - Registration No.: CNAS L15527**

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

● **A2LA - Registration No.: 4346.01**

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

4.8 Laboratory Location

JianYan Testing Group Shenzhen Co., Ltd.

Address: No.101, Building 8, Innovation Wisdom Port, No.155 Hongtian Road, Huangpu Community, Xinqiao Street, Bao'an District, Shenzhen, Guangdong, People's Republic of China.

Tel: +86-755-23118282, Fax: +86-755-23116366

Email: info-JYTee@lets.com, Website: <http://jyt.lets.com>

4.9 Test Instruments List

Radiated Emission(3m SAC):					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	ETS	9m*6m*6m	WXJ001-1	01-19-2021	01-18-2024
BiConiLog Antenna	Schwarzbeck	VULB9163	WXJ002	02-17-2022	02-16-2023
Biconical Antenna	Schwarzbeck	VUBA9117	WXJ002-1	06-20-2021	06-19-2022
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-2	02-17-2022	02-16-2023
Horn Antenna	Schwarzbeck	BBHA9120D	WXJ002-3	06-18-2021	06-17-2022
Loop Antenna	Schwarzbeck	FMZB 1519 B	WXJ002-4	03-07-2022	03-06-2023
Pre-amplifier (30MHz ~ 1GHz)	Schwarzbeck	BBV9743B	WXG001-7	02-17-2022	02-16-2023
Pre-amplifier (1GHz ~ 18GHz)	SKET	LNPA_0118G-50	WXG001-3	02-17-2022	02-16-2023
EMI Test Receiver	Rohde & Schwarz	ESRP7	WXJ003-1	02-17-2022	02-16-2023
Spectrum Analyzer	KEYSIGHT	N9010B	WXJ004-2	11-27-2021	11-26-2022
Band Reject Filter Group	Tonscend	JS0806-F	WXJ089	N/C	
Coaxial Cable (30MHz ~ 1GHz)	JYTSZ	JYT3M-1G-NN-8M	WXG001-4	02-17-2022	02-16-2023
Coaxial Cable (1GHz ~ 18GHz)	JYTSZ	JYT3M-18G-NN-8M	WXG001-5	02-17-2022	02-16-2023
Coaxial Cable (18GHz ~ 40GHz)	JYTSZ	JYT3M-40G-SS-8M	WXG001-7	02-17-2022	02-16-2023
Coaxial Cable (9kHz ~ 30MHz)	JYT	JYT3M-1G-BB-5M	WXG001-6	03-07-2022	03-06-2023
Test Software	Tonscend	TS+	Version: 3.0.0.1		

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI 3	WXJ003	02-17-2022	02-16-2023
RF Switch	TOP PRECISION	RSU0301	WXG003	02-17-2022	02-16-2023
LISN	Schwarzbeck	NSLK 8127	QCJ001-13	02-17-2022	02-16-2023
LISN	Rohde & Schwarz	ESH3-Z5	WXJ005-1	06-18-2021	06-17-2022
LISN Coaxial Cable (9kHz ~ 30MHz)	JYTSZ	JYTCE-1G-NN-2M	WXG003-1	02-17-2022	02-16-2023
Test Software	AUDIX	E3	Version: 6.110919b		

Conducted method:					
Test Equipment	Manufacturer	Model No.	Manage No.	Cal.Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	FSP 30	WXJ004	01-20-2022	01-19-2023

5.1 Test Setup

The diagram illustrates a test setup for EUT/AE devices. Three EUT/AE units are placed on a table. A PSU is connected to the first unit. The table is supported by legs, and the entire setup is on a vertical reference ground plane. Dimensions are specified: 0.1 m between units, 0.8 m from units to metallic objects, 0.8 m from units to the ground plane, 0.4 m from the table legs to the ground plane, and 0.8 m from the table to the ground plane. Cables to the AE are shown. AMNs or AANs are bonded to a reference ground plane.

2) Radiated emission measurement:

50 kHz ~ 50 MHz (5M SAC)

0.8m

Turntable

AE

EUT

3m

1m~4m

Ground Reference Plane

Test Receiver

Pre-Amplifier

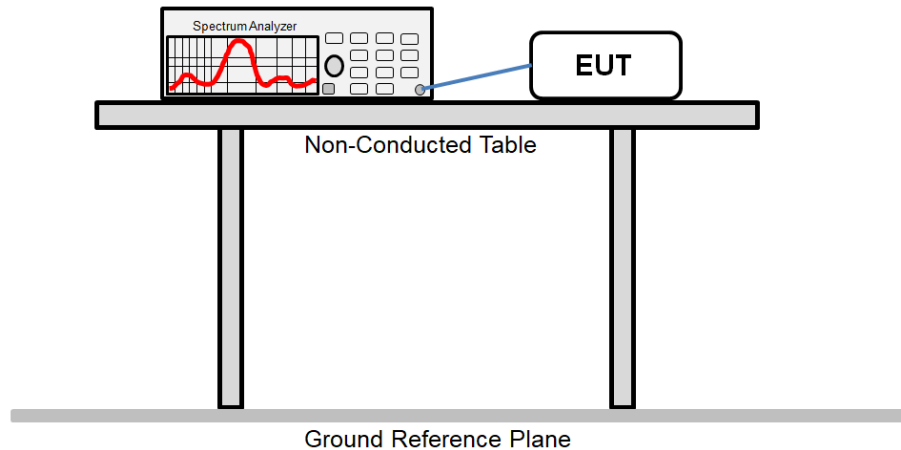
Controller

Coaxial Cable

Optical Cable

Diagram illustrating the experimental setup for AE measurement. The setup is enclosed in a room with a zigzag patterned wall. A turntable is positioned on the left, with an AE sensor and EUT (Electromagnetic Under Test) on top. The turntable is 0.8m high. A horizontal distance of 3m separates the turntable from a vertical stand. The stand has a height of 1m to 4m. A ground reference plane is indicated. The stand holds a sensor and is connected to a Test Receiver, Pre-Amplifier, and Controller. The Test Receiver is connected to the Controller via a Coaxial Cable. The Controller is connected to the stand via an Optical Cable.

Conducted test method:



5.2 Test Procedure

Test method	Test step
Conducted emission	1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
Radiated emission	1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m. 2. EUT works in each mode of operation that needs to be tested, and having the EUT continuously working, respectively on 3 axis (X, Y & Z) and considered typical configuration to obtain worst position. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations. 3. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.
Conducted test method	1. The antenna port of EUT was connected to the RF port of the spectrum analyzer through an RF cable. 2. The EUT is keeping in continuous transmission mode and tested in all modulation modes. 3. The test data is saved by the screenshot function of the spectrum analyzer.

6 Test Results

6.1 Summary

6.1.1 Clause and Data Summary

Test items	Standard clause	Test data	Result
Antenna Requirement	15.203	See Section 6.2	Pass
AC Power Line Conducted Emission	15.207	See Section 6.3	Pass
20dB Bandwidth	15.215(c)	See Section 6.4	Pass
Field Strength of Fundamental	15.225 (a)(b)(c)	See Section 6.5	Pass
Field Strength of Spurious Emissions	15.209 15.225 (d)	See Section 6.6	Pass
Frequency Tolerance	15.225 (e)	See Section 6.7	Pass
Remark: 1. Pass: The EUT complies with the essential requirements in the standard. 2. N/A: Not Applicable.			
Test Method:	ANSI C63.4-2014 ANSI C63.10-2013		

6.1.2 Test Limit

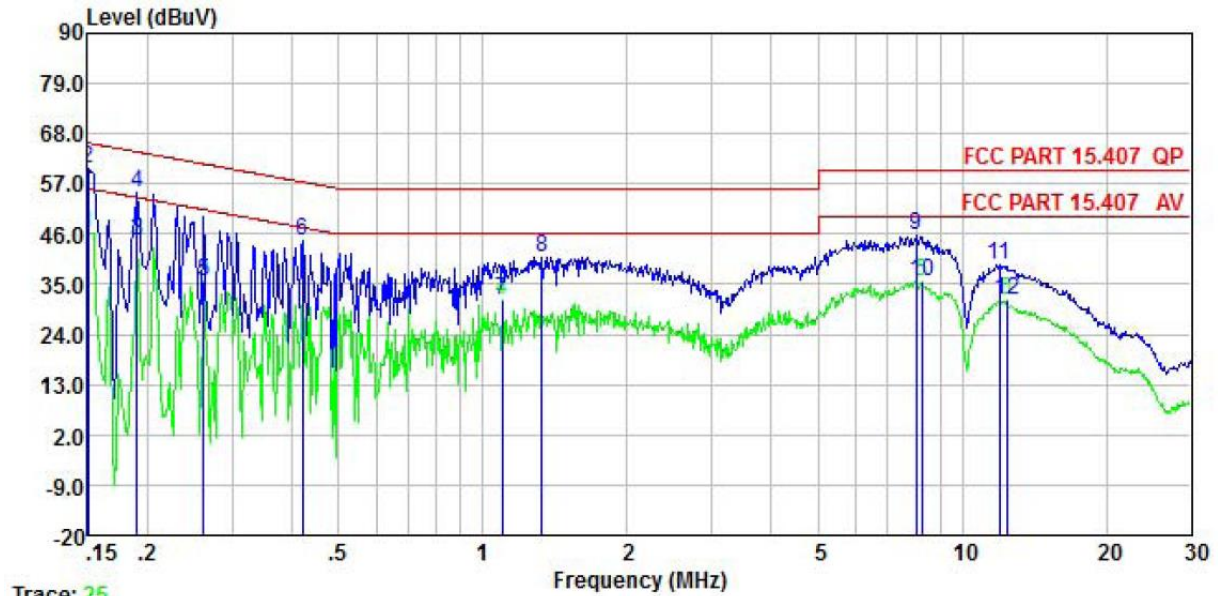
Items	Limit																								
AC Power Line Conducted Emission	<table><tr><th rowspan="2">Frequency (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>Quasi-Peak</th><th>Average</th></tr><tr><td>0.15 – 0.5</td><td>66 to 56 Note 1</td><td>56 to 46 Note 1</td></tr><tr><td>0.5 – 5</td><td>56</td><td>46</td></tr><tr><td>5 – 30</td><td>60</td><td>50</td></tr></table> Note 1: The limit level in dBµV decreases linearly with the logarithm of frequency. Note 2: The more stringent limit applies at transition frequencies.	Frequency (MHz)	Limit (dBµV)		Quasi-Peak	Average	0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1	0.5 – 5	56	46	5 – 30	60	50										
Frequency (MHz)	Limit (dBµV)																								
	Quasi-Peak	Average																							
0.15 – 0.5	66 to 56 Note 1	56 to 46 Note 1																							
0.5 – 5	56	46																							
5 – 30	60	50																							
20dB Bandwidth	N/A																								
Field Strength of Fundamental Field Strength of Spurious Emissions	(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. (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 § 15.209. <table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009 – 0.490</td><td>2400/F (kHz)</td><td>300</td></tr><tr><td>0.490 – 1.705</td><td>24000/F (kHz)</td><td>30</td></tr><tr><td>1.705 – 30.0</td><td>30</td><td>30</td></tr><tr><td>30 – 88</td><td>100**</td><td>3</td></tr><tr><td>88 – 216</td><td>150**</td><td>3</td></tr><tr><td>216 – 960</td><td>200**</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table> ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009 – 0.490	2400/F (kHz)	300	0.490 – 1.705	24000/F (kHz)	30	1.705 – 30.0	30	30	30 – 88	100**	3	88 – 216	150**	3	216 – 960	200**	3	Above 960	500	3
Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																							
0.009 – 0.490	2400/F (kHz)	300																							
0.490 – 1.705	24000/F (kHz)	30																							
1.705 – 30.0	30	30																							
30 – 88	100**	3																							
88 – 216	150**	3																							
216 – 960	200**	3																							
Above 960	500	3																							
Frequency Tolerance	The frequency tolerance of the carrier signal shall be maintained within ±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.																								

6.2 Antenna Requirement

Standard requirement:	FCC Part15 C Section 15.203
15.203 requirement:	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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.
E.U.T Antenna:	The EUT make use of an induction coil antenna.

6.3 AC Power Line Conducted Emission

Product name:	Mobile Phone	Product model:	CI7n
Test by:	Mike	Test mode:	NFC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz		



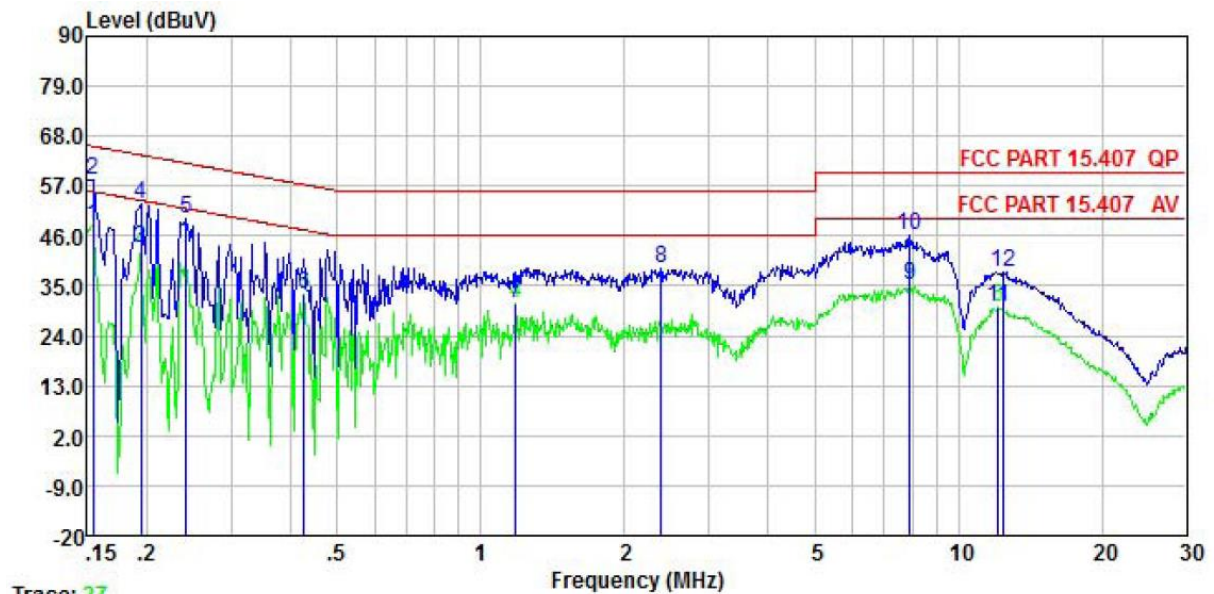
Trace: 25

	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.150	46.29	0.04	0.01	46.34	56.00	-9.66	Average
2	0.150	60.19	0.04	0.01	60.24	66.00	-5.76	QP
3	0.190	44.65	0.04	0.03	44.72	54.02	-9.30	Average
4	0.190	55.10	0.04	0.03	55.17	64.02	-8.85	QP
5	0.262	35.53	0.04	0.01	35.58	51.38	-15.80	Average
6	0.421	44.38	0.04	0.04	44.46	57.42	-12.96	QP
7	1.100	31.25	0.05	0.07	31.37	46.00	-14.63	Average
8	1.331	40.69	0.06	0.12	40.87	56.00	-15.13	QP
9	8.020	45.37	0.17	0.10	45.64	60.00	-14.36	QP
10	8.235	35.32	0.18	0.10	35.60	50.00	-14.40	Average
11	11.933	38.87	0.24	0.10	39.21	60.00	-20.79	QP
12	12.384	31.14	0.24	0.10	31.48	50.00	-18.52	Average

Remark:

1. Level = Read level + LISN Factor + Cable Loss.

Product name:	Mobile Phone	Product model:	CI7n
Test by:	Mike	Test mode:	NFC mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz		



	Freq	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dBuV	dBuV	dB	
1	0.154	48.24	0.05	0.01	48.30	55.78	-7.48	Average
2	0.154	58.18	0.05	0.01	58.24	65.78	-7.54	QP
3	0.194	43.07	0.04	0.03	43.14	53.84	-10.70	Average
4	0.194	53.00	0.04	0.03	53.07	63.84	-10.77	QP
5	0.242	49.58	0.04	0.01	49.63	62.04	-12.41	QP
6	0.426	33.11	0.04	0.03	33.18	47.33	-14.15	Average
7	1.184	30.83	0.05	0.09	30.97	46.00	-15.03	Average
8	2.384	38.46	0.07	0.15	38.68	56.00	-17.32	QP
9	7.893	34.87	0.16	0.10	35.13	50.00	-14.87	Average
10	7.893	45.70	0.16	0.10	45.96	60.00	-14.04	QP
11	12.124	29.95	0.22	0.10	30.27	50.00	-19.73	Average
12	12.449	37.71	0.22	0.11	38.04	60.00	-21.96	QP

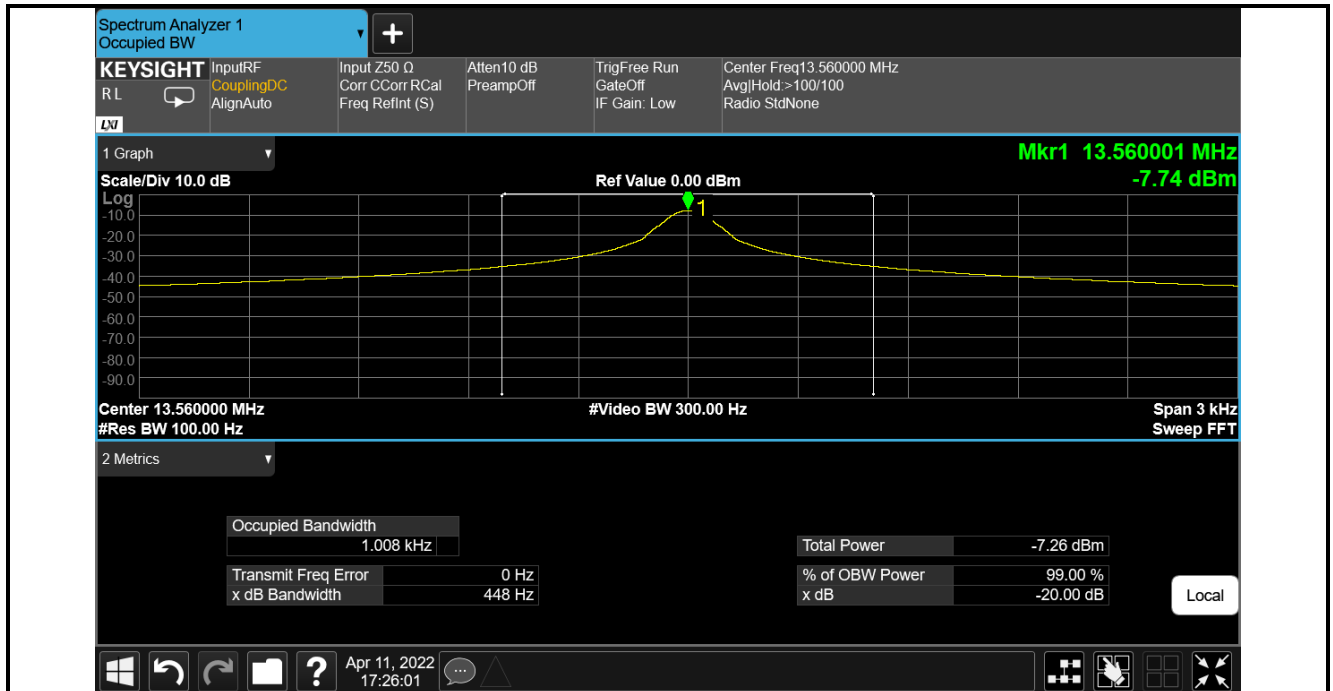
Remark:

1. Level = Read level + LISN Factor + Cable Loss.

6.4 20dB Bandwidth

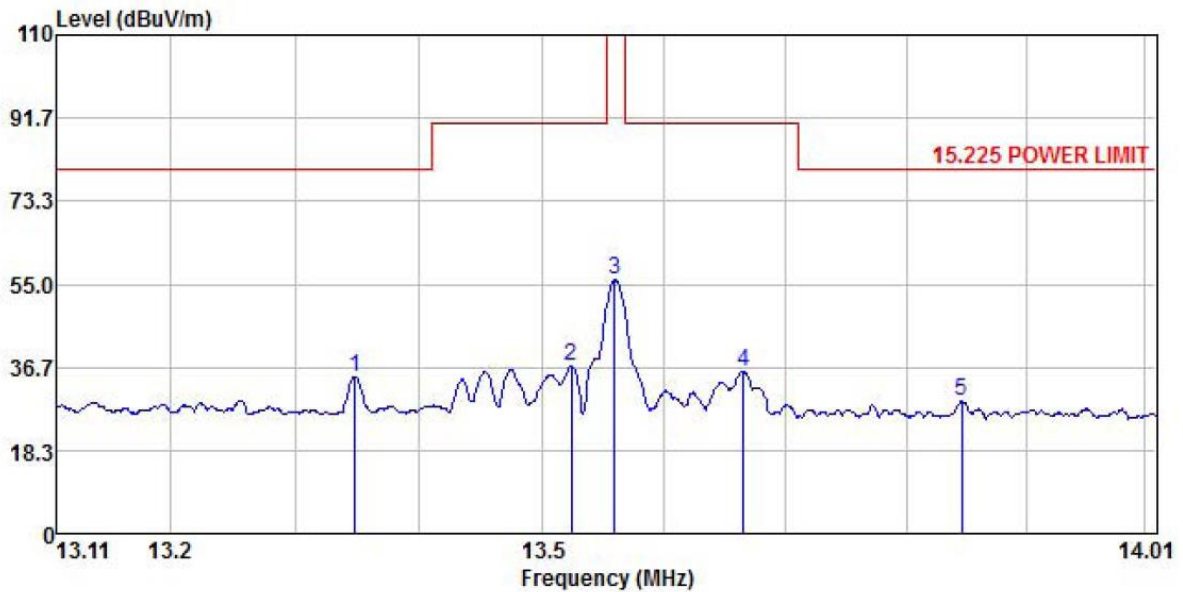
20dB bandwidth (kHz)	Limit (kHz)	Results
0.448	11.2	Passed
Note: For 13.56MHz, permitted Band is 14 kHz, so the Limit is 11.2 kHz.		

Test plot as follows:



6.5 Field Strength of Fundamental

Product Name:	Mobile Phone	Product Model:	CI7n
Test By:	Mike	Test mode:	NFC Tx mode
Test Voltage:	AC 120/60Hz		

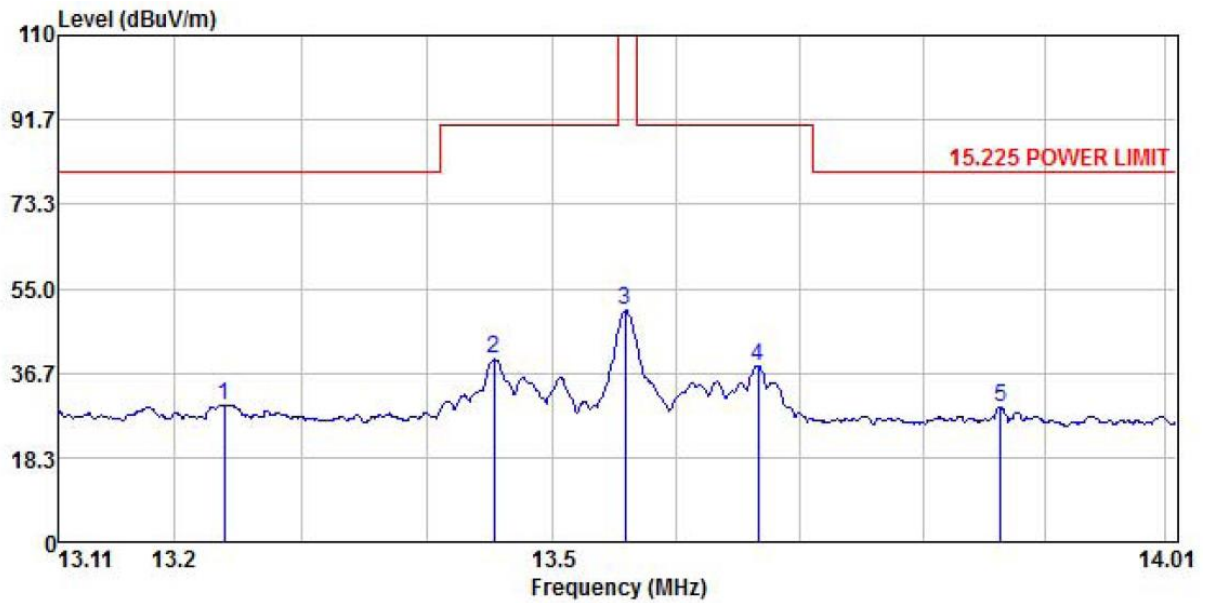


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	13.348	14.55	19.63	0.40	0.00	34.58	80.50	-45.92	
2	13.524	16.97	19.59	0.41	0.00	36.97	90.50	-53.53	
3	13.559	36.05	19.59	0.41	0.00	56.05	124.00	-67.95	
4	13.665	15.76	19.57	0.42	0.00	35.75	90.50	-54.75	
5	13.846	9.26	19.52	0.43	0.00	29.21	80.50	-51.29	

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

Product Name:	Mobile Phone	Product Model:	CI7n
Test By:	Mike	Test mode:	NFC Tx mode
Test Voltage:	AC 120/60Hz		



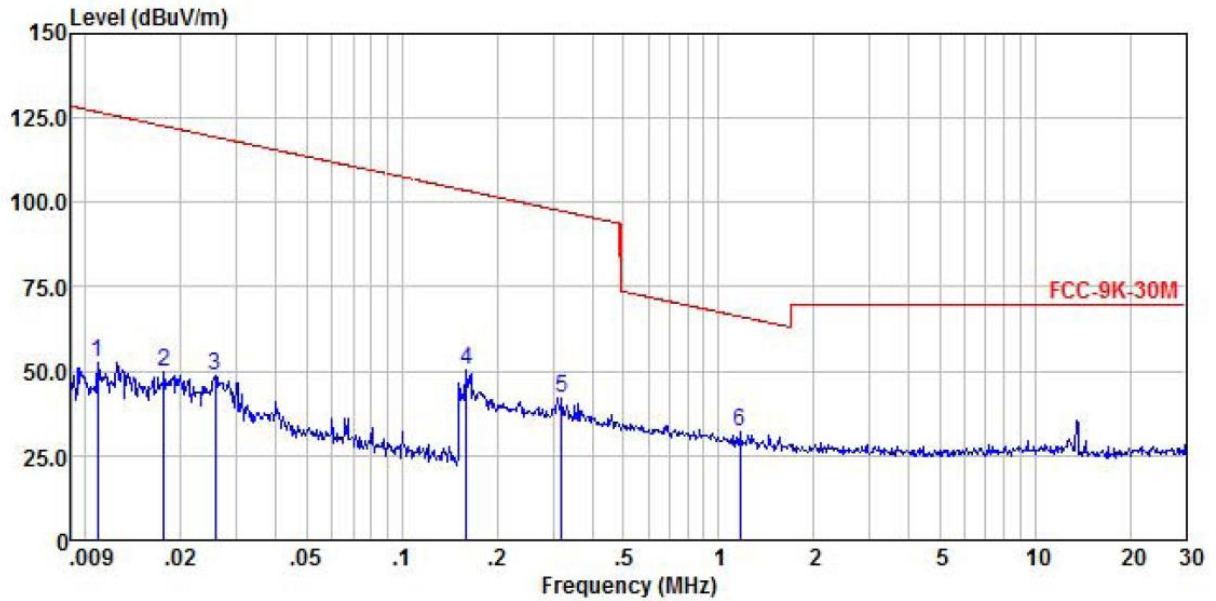
	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	13.239	9.73	19.66	0.39	0.00	29.78	80.50	-50.72	
2	13.453	19.60	19.61	0.41	0.00	39.62	90.50	-50.88	
3	13.558	30.38	19.59	0.41	0.00	50.38	124.00	-73.62	
4	13.665	18.26	19.57	0.42	0.00	38.25	90.50	-52.25	
5	13.864	9.28	19.52	0.43	0.00	29.23	80.50	-51.27	

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

6.6 Field Strength of Spurious Emissions

Product Name:	Mobile Phone	Product Model:	CI7n
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	9 kHz – 30 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		

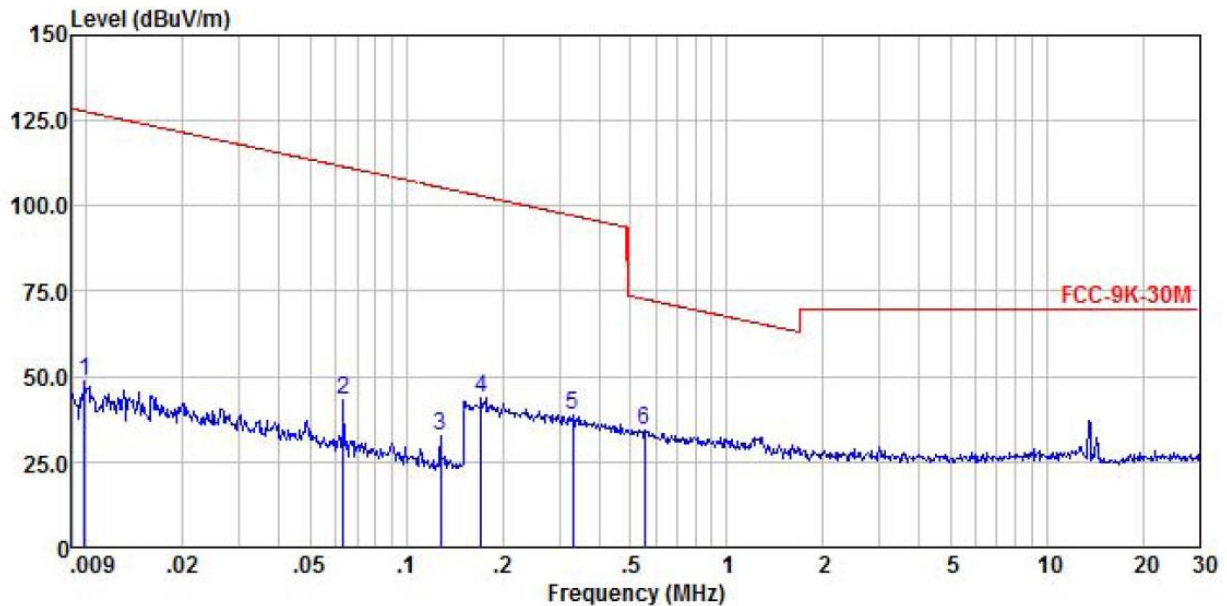


	Freq	ReadAntenna	Cable Preamp	Level	Limit	Over	Remark
	MHz	Level	Factor	Loss	Factor	Line	Limit
		dBuV	dB/m	dB	dB	dBuV/m	dBuV/m
1	0.011	32.12	20.48	0.01	0.00	52.61	126.81
2	0.018	29.42	20.34	0.01	0.00	49.77	122.65
3	0.026	28.60	20.24	0.01	0.00	48.85	119.41
4	0.160	29.87	20.23	0.03	0.00	50.13	103.52
5	0.319	21.28	20.58	0.06	0.00	41.92	97.52
6	1.169	11.22	20.49	0.17	0.00	31.88	66.27

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, so not show in test report.

Product Name:	Mobile Phone	Product Model:	CI7n
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	9 kHz – 30 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		

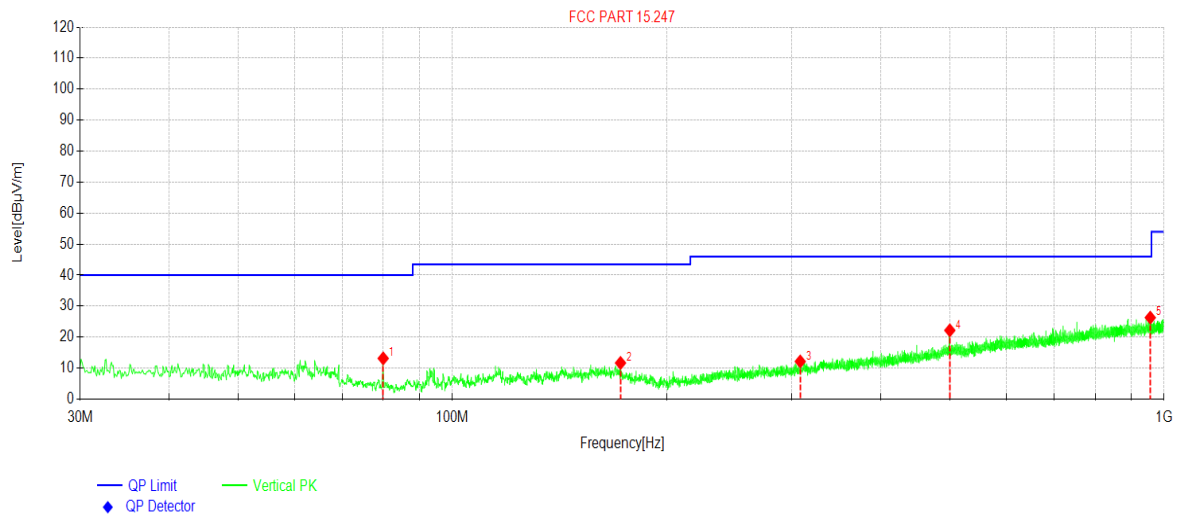


	Freq	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.010	28.03	20.47	0.01	0.00	48.51	127.72	-79.21	
2	0.064	22.60	20.53	0.02	0.00	43.15	111.52	-68.37	
3	0.128	12.51	19.94	0.03	0.00	32.48	105.50	-73.02	
4	0.171	23.71	20.26	0.03	0.00	44.00	102.96	-58.96	
5	0.330	18.00	20.59	0.06	0.00	38.65	97.24	-58.59	
6	0.554	13.54	20.75	0.10	0.00	34.39	72.73	-38.34	

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
2. The emission levels of 9 kHz~150 kHz are background noise and very lower than the limit, so not show in test report.

Product Name:	Mobile Phone	Product Model:	CI7n
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Vertical
Test Voltage:	AC 120/60Hz		



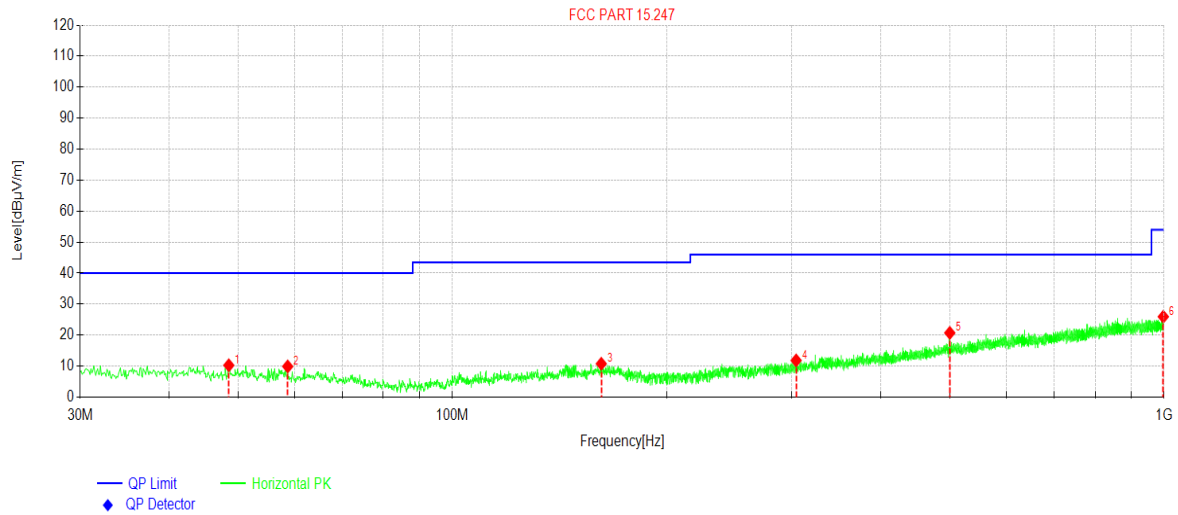
Suspected Data List

NO.	Freq. [MHz]	Reading[dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	79.9600	31.78	13.14	-18.64	40.00	26.86	PK	Vertical
2	172.313	26.02	11.66	-14.36	43.50	31.84	PK	Vertical
3	308.223	25.31	12.15	-13.16	46.00	33.85	PK	Vertical
4	500.012	29.94	22.18	-7.76	46.00	23.82	PK	Vertical
5	956.442	25.81	26.29	0.48	46.00	19.71	PK	Vertical

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

Product Name:	Mobile Phone	Product Model:	CI7n
Test By:	Mike	Test mode:	NFC Tx mode
Test Frequency:	30 MHz – 1000 MHz	Polarization:	Horizontal
Test Voltage:	AC 120/60Hz		



Suspected Data List

NO.	Freq. [MHz]	Reading[dBuV/m]	Level [dBuV/m]	Factor [dB]	Limit [dBuV/m]	Margin [dB]	Trace	Polarity
1	48.5289	24.05	10.26	-13.79	40.00	29.74	PK	Horizontal
2	58.7149	24.75	9.89	-14.86	40.00	30.11	PK	Horizontal
3	161.933	24.15	10.76	-13.39	43.50	32.74	PK	Horizontal
4	304.149	25.13	11.84	-13.29	46.00	34.16	PK	Horizontal
5	500.012	28.48	20.72	-7.76	46.00	25.28	PK	Horizontal
6	997.768	25.11	25.95	0.84	54.00	28.05	PK	Horizontal

Remark:

1. Level = Read level + Antenna Factor + Cable Loss – Preamplifier Factor.

6.7 Frequency Tolerance

Frequency Stability V.S. Temperature Measurement:

Voltage (Vdc)	Temperature (°C)	Frequency Tolerance (kHz)	Frequency Error (%)	Limit (%)	Results
3.87	-20	0.258	0.002	±0.01	Pass
	-10	0.850	0.006	±0.01	Pass
	0	0.284	0.002	±0.01	Pass
	+10	0.351	0.003	±0.01	Pass
	+20	-0.485	-0.004	±0.01	Pass
	+30	-0.584	-0.004	±0.01	Pass
	+40	0.451	0.003	±0.01	Pass
	+50	0.238	0.002	±0.01	Pass

Frequency Stability V.S. Voltage Measurement:

Temperature (°C)	Voltage (Vdc)	Frequency Tolerance (kHz)	Frequency Error (%)	Limit (%)	Results
25.0	3.50	0.365	0.003	±0.01	Pass
	3.87	-0.458	-0.003	±0.01	Pass
	4.45	0.214	0.002	±0.01	Pass

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