



FCC PART 15C

TEST REPORT

For

Hytera Communications Corporation Limited

Hytera Tower, Hi-Tech Industrial Park North, 9108# Beihuan Road, Nanshan District, Shenzhen, 518057 China

FCC ID: YAMVM750D

Report Type: Original Report		Product Type: Body Worn Camera
Report Number: DG221072		28-31605E-00G
Report Date:	2021-09-00	-
Reviewed By:	Rocky Xia RF Engine	
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.12, Pulong East 1 st Road, Tangxia Town, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn	

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GENERAL INFORMATION

EUT Name:		Body Worn Camera
	EUT Model:	VM750D
Opera	tion Frequency:	13.56 MHz
Μ	lodulation Type:	ASK
Rate	d Input Voltage:	DC 3.85Vdc from Battery or DC 5V from Adapter
	Model:	S010WU0500200
Adapter Information:	Input:	100-240Vac 50/60Hz 400mA
mormation.	Output:	5.0Vdc 2000mA
	Serial Number:	DG2210728-31605E-RF-S1
EUT Received Date:		2021.07.29
EUT	Received Status:	Good

Product Description for Equipment Under Test (EUT)

Objective

This type approval report is prepared on behalf of *Hytera Communications Corporation Limited* in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

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

Test Methodology

All measurements detailed in this Test Report were performed in accordance with ANSI C63.10-2013 "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices".

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

Measurement Uncertainty

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	±5 %
	9kHz~30MHz: 4.12dB,
radiated Emissions	30M~200MHz: 4.55 dB,
	200M~1GHz: 5.92 dB
Temperature	±1 °C
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.12, Pulong East 1st Road, Tangxia Town, Dongguan, Guangdong, 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. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0022.

Declarations

BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol " \blacktriangle ". Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk " \bigstar ".

SYSTEM TEST CONFIGURATION

Justification

The system was configured for testing in a test mode.

EUT Exercise Software

No software used in test.

Equipment Modifications

No modification was made to the EUT.

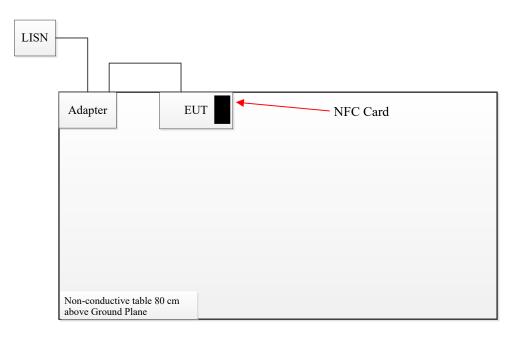
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	
LANDI	NFC Card	EINOLDA	/	

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	То
/	/	/	/	/	/

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§15.203	Antenna Requirement	Compliance
FCC§15.207 (a)	Conducted Emissions	Compliance
§15.225 §15.209 §15.205	Radiated Emission Test	Compliance
§15.225(e)	Frequency Stability	Compliance
§15.215(c)	20 dB Bandwidth	Compliance

FCC §15.203- ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, 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. 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.

Antenna Connected Construction

The EUT has one Loop antenna arrangement for NFC, fulfill the requirement of this section.

Antenna	Antenna Type	input impedance (Ohm)	Frequency Range
NFC	FPC	50	13.56MHz

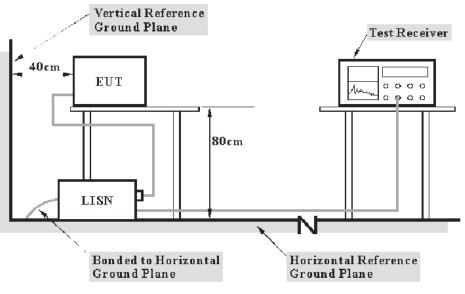
Result: Compliance.

FCC §15.207 (a)- AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207(a).

EUT Setup



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 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to the main LISN with a 120 V/60 Hz AC power source.

EMI Test Receiver Setup

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

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

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

Manufacturer	Description	Model Serial Number		Calibration Date	Calibration Due Date
R&S	LISN	ENV 216	101614	2020-09-12	2021-09-12
R&S	EMI Test Receiver	ESCI	101121	2021-07-06	2022-07-05
MICRO-COAX	Coaxial Cable	C-NJNJ-50	C-0200-01	2020-09-05	2021-09-05
R&S	R&S Test Software		Version 9.10.00	N/A	N/A

Test Equipment List and Details

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

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

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase ("hot") line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductor, or the six highest emissions may be reported over all the current-carrying conductors.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter's fundamental emission band.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

 $V_C = V_R + A_C + VDF$

Herein, V_C : corrected voltage amplitude V_R : reading voltage amplitude Ac: attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

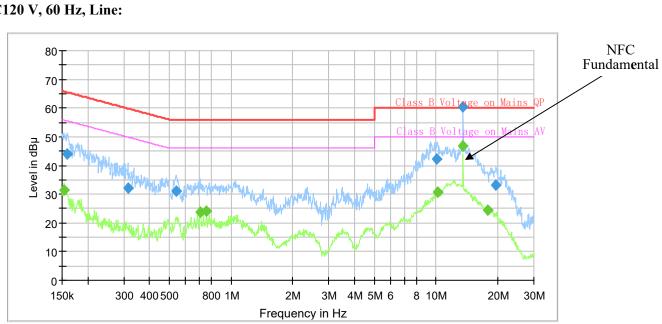
Margin = Limit – Corrected Amplitude

Test Data

Environmental Conditions

Temperature:	26.2℃	
Relative Humidity:	64%	
ATM Pressure:	100.6kPa	
Tester:	Walker Chen	
Test Date:	2021-09-04	

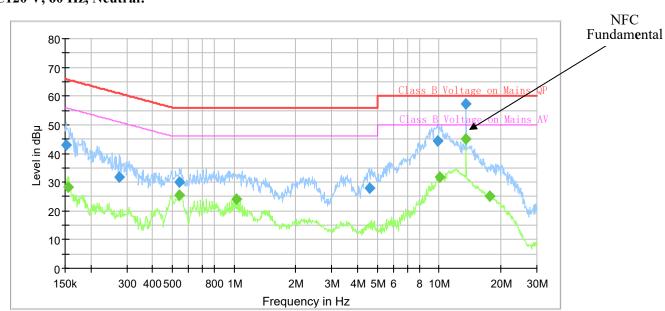
Test Mode: Transmitting



AC120 V, 60 Hz, Line:

Final_Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.153788	·	31.38	55.79	24.41	9.000	L1	9.6
0.158459	44.08		65.54	21.46	9.000	L1	9.6
0.313811	32.10		59.87	27.77	9.000	L1	9.6
0.537778	31.15		56.00	24.85	9.000	L1	9.6
0.711054		23.71	46.00	22.29	9.000	L1	9.7
0.758685		23.94	46.00	22.06	9.000	L1	9.7
10.098279	42.19		60.00	17.81	9.000	L1	9.9
10.199515		30.76	50.00	19.24	9.000	L1	9.9
17.831112		24.39	50.00	25.61	9.000	L1	10.1
19.603499	33.35		60.00	26.65	9.000	L1	10.0



AC120 V, 60 Hz, Neutral:

Final_Result

Frequency (MHz)	QuasiPeak (dB μ V)	Average (dB μ V)	Limit (dB µ V)	Margin (dB)	Bandwidth (kHz)	Line	Corr. (dB)
0.151504	43.05		65.92	22.87	9.000	N	9.6
0.154557		28.25	55.75	27.50	9.000	Ν	9.6
0.275645	31.84		60.95	29.11	9.000	Ν	9.6
0.543169		25.43	46.00	20.57	9.000	Ν	9.6
0.543169	30.13		56.00	25.87	9.000	Ν	9.6
1.023352		24.06	46.00	21.94	9.000	Ν	9.6
4.569236	27.86		56.00	28.14	9.000	Ν	9.6
9.849566	44.45		60.00	15.55	9.000	Ν	9.7
10.098279		31.78	50.00	18.22	9.000	Ν	9.7
17.742400		25.10	50.00	24.90	9.000	Ν	9.9

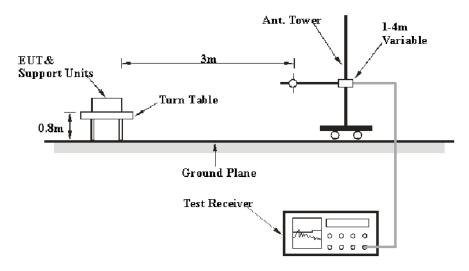
FCC§15.225, §15.205 & §15.209- RADIATED EMISSIONS

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.
- (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.

EUT Setup



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

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 9 kHz to 1 GHz.

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

Frequency Range	RBW	Video B/W	Detector
9 kHz – 150 kHz	200 Hz	1 kHz	QP
150 kHz – 30 MHz	9 kHz	30 kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP measurement

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

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

Margin = Limit - Corr. Ampl.

Calibration Calibration Serial Manufacturer Description Model Number Date **Due Date TESEQ** Passive Loop HLA6120 33561 2021-02-03 2022-02-02 Sunol Sciences A060611-1 2020-11-10 Antenna JB3 2023-11-10 R&S EMI Test Receiver ESR3 102453 2020-09-12 2021-09-12 Coaxial Cable Unknown C-NJNJ-50 C-0075-01 2021-07-19 2022-07-18 C-0400-01 2021-07-19 2022-07-18 Unknown Coaxial Cable C-NJNJ-50 Unknown C-NJNJ-50 C-1400-01 2021-07-19 Coaxial Cable 2022-07-18 Sonoma Amplifier 310N 372193 2021-07-18 2022-07-17 N/A Farad Test Software EZ-EMC V1.1.4.2 N/A

Test Equipment List and Details

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

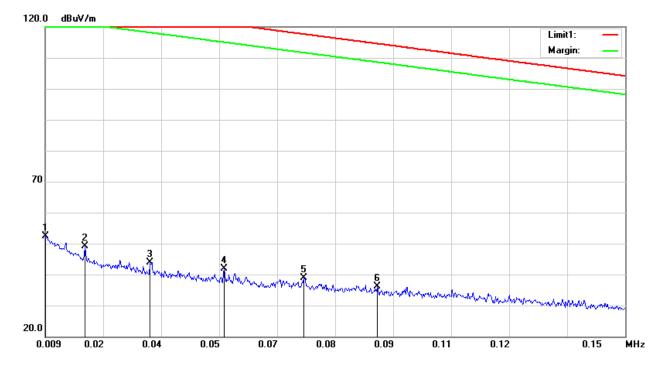
Test Data

Environmental Conditions

Temperature:	28.4°C
Relative Humidity:	61 %
ATM Pressure:	100.8 kPa
Tester:	Joker Chen
Test Date:	2021-09-06

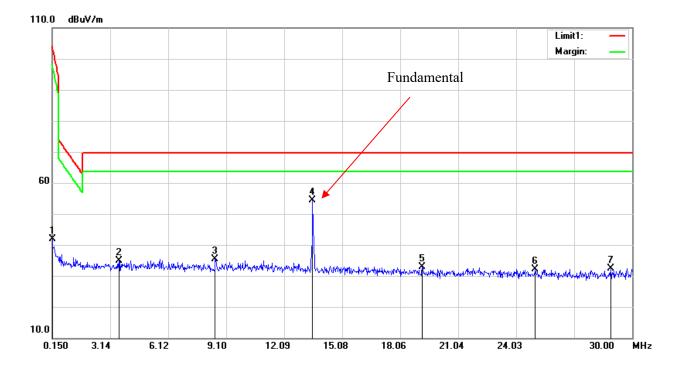
Test mode: Transmitting

1) 9 kHz~30 MHz:



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
0.0091	31.71	peak	20.57	52.28	128.50	76.22
0.0185	28.49	peak	20.57	49.06	126.87	77.81
0.0345	23.52	peak	20.47	43.99	124.10	80.11
0.0524	21.40	peak	20.48	41.88	121.00	79.12
0.0720	18.35	peak	20.47	38.82	117.60	78.78
0.0898	15.75	peak	20.35	36.10	114.51	78.41

Bay Area Compliance Laboratories Corp. (Dongguan)

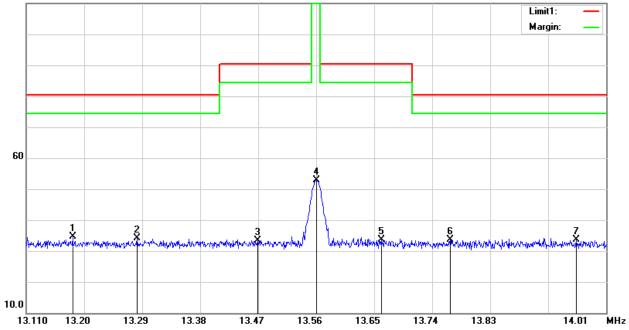


Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
0.1500	21.64	peak	20.28	41.92	104.08	62.16
3.5828	14.77	peak	20.09	34.86	69.54	34.68
8.5380	15.19	peak	20.28	35.47	69.54	34.07
13.5526	33.90	peak	20.49	54.39	69.54	15.15
19.1943	12.25	peak	20.58	32.83	69.54	36.71
25.0151	11.52	peak	20.56	32.08	69.54	37.46
28.8956	11.82	peak	20.48	32.30	69.54	37.24

Bay Area Compliance Laboratories Corp. (Dongguan)

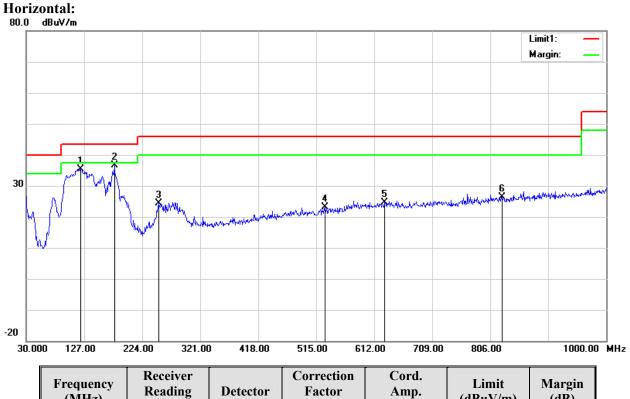
Fundamental:





No.	Frequency	Reading	Detector	Corrected	Result	Limit	Margin
	(MHz)	(dBuV/m)		dB/m	(dBuV/m)	(dBuV/m)	(dB)
1	13.1820	14.23	peak	20.47	34.70	80.50	45.80
2	13.2820	13.74	peak	20.49	34.23	80.50	46.27
3	13.4691	12.94	peak	20.49	33.43	90.50	57.07
4	13.5600	32.48	peak	20.49	52.97	124.00	71.03
5	13.6608	13.21	peak	20.49	33.70	90.50	56.80
6	13.7680	13.04	peak	20.51	33.55	80.50	46.95
7	13.9641	13.19	peak	20.51	33.70	80.50	46.80

30 MHz - 1 GHz



	Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	121.1800	46.31	peak	-10.91	35.40	43.50	8.10
ľ	177.4400	50.18	peak	-13.43	36.75	43.50	6.75
	251.1600	37.00	peak	-12.66	24.34	46.00	21.66
ľ	529.5500	28.55	peak	-5.47	23.08	46.00	22.92
ľ	629.4600	28.33	peak	-3.72	24.61	46.00	21.39
	825.4000	27.30	peak	-0.86	26.44	46.00	19.56

Limit

 $(dB\mu V/m)$

40.00

40.00

43.50

43.50

43.50

46.00

(**dB**)

7.27

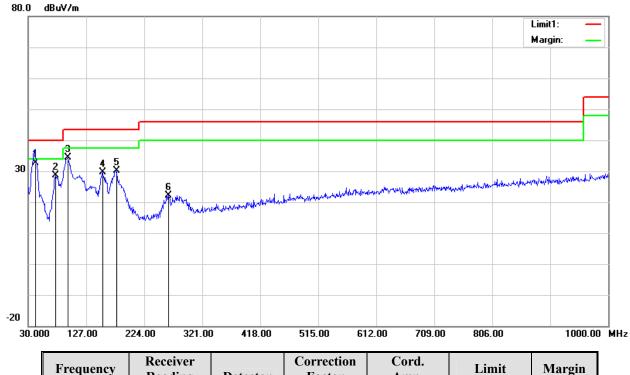
11.31

9.19

13.82

13.44

23.83



Factor

(dB)

-12.77

-17.03

-16.11

-12.31

-13.41

-11.22

Amp.

 $(dB\mu V/m)$

32.73

28.69

34.31

29.68

30.06

22.17

Vertical:

Frequency

(MHz)

41.6400

75.5900

95.9600

154.1600

178.4100

264.7400

Reading

(dBµV)

45.50

45.72

50.42

41.99

43.47

33.39

Detector

QP

peak

peak

peak

peak

peak

Dage	10	of	22
Tage .	17	01	23

FCC§15.225(e) - FREQUENCY STABILITY

Applicable Standard

As per FCC Part 15.225:

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.

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 variable DC power supply Source. The voltage was set to the end point of the battery. The output frequency was recorded for each voltage.

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
TESEQ	Passive Loop	HLA6120	33561	2021-02-03	2022-02-02
Sunol Sciences	Antenna	JB3	A060611-1	2020-11-10	2023-11-10
R&S	EMI Test Receiver	ESR3	102453	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2021-07-19	2022-07-18
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2021-07-19	2022-07-18
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2021-07-19	2022-07-18
Sonoma	Amplifier	310N	372193	2021-07-18	2022-07-17
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A

Test Equipment List and Details

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	28.4°C
Relative Humidity:	61 %
ATM Pressure:	100.8 kPa
Tester:	Joker Chen
Test Date:	2021-09-06

Test Mode: Transmitting

Test Result: Pass

		$f_0 = 13.56 \text{ MHz}$		
Temperature	Voltage	Measured frequency	Frequency Error	Limit
°C	V _{DC}	MHz	Hz	Hz
-20		13.560413	413	±1356
-10		13.560417	417	±1356
0		13.560419	419	±1356
10		13.560423	423	±1356
20	3.85	13.560417	417	±1356
25		13.560419	419	±1356
30		13.560423	423	±1356
40		13.560418	418	±1356
50		13.560422	422	±1356
25	3.6	13.560426	426	±1356
25	4.3	13.560428	428	±1356

FCC §15.215(c)- 20 dB BANDWIDTH

Applicable Standard

Per FCC §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.

Test Procedure

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- 4. Use Occupied bandwidth test function, measure the 99% Occupied bandwidth.
- 5. Repeat above procedures until all frequencies measured were complete.

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop	6512	9706-1206	2020-03-05	2023-03-05
R&S	EMI Test Receiver	ESCI	100224	2020-09-12	2021-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2020-09-05	2021-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2021-05-06	2022-05-06
HP	Amplifier	8447D	2727A05902	2021-09-05	2022-09-05

Test Equipment List and Details

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	28.4°C		
Relative Humidity:	61 %		
ATM Pressure:	100.8 kPa		
Tester:	Joker Chen		
Test Date:	2021-09-06		

Test Mode: Transmitting

Frequency	20 dB Bandwidth
(MHz)	(kHz)
13.56	0.799

20 dB Bandwidth

Ref Level 6	7 00 dbu	U.	RBW 300 Hz			
Att	10 d				Tomut 1 AC	
Att 1Pk Max	10 0	B SWT 6.3 ms	🗢 VBW 1 kHz	Mode Auto FFT	Input 1 AC	
DIPK Max		1 1	1	544543		42.06 dBµ
60 dBµV				M1[1]		42.06 dBp 13.5604170 MH
				ndB		20.00 d
50 dBµV		-		BW		799.000000000 H
				M1 Q factor		16975.
40 dBuV					-	
30 dBuV						-
		1 1		11/ 12		
20 dBµV				X	_	
			/			
10 dBµV						~
	-		~		-	
0 dBµV-	~			_		
-10 dBµV						
-20 dBµV		+ +				
and a second						
-30 dBµV						
CF 13.56 M	lz		6	91 pts		Span 8.0 kHz
Marker						
	Trc	X-value	Y-value		Function Fund	
M1	1	13.560417 N				
T1 T2	1	13.560012 M 13.56081 M				20.00 dB 16975
16	1	13.30081 1	21.09			10973

Date: 6.SEP.2021 15:04:14

END OF REPORT *****