

FCC PART 15C

TEST REPORT

For

INGENICO

9 Avenue de la gare - Rolvatain TGV, Valence Cedex 9, 26958, France

FCC ID: XKB-APOSA8WULEWF

Report Type: Original Report	Product Type: Smart POS Terminal
Report Number: <u>RXM200310053-00C</u>	
Report Date: <u>2020-04-18</u>	
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GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

EUT Name:		Smart POS Terminal
EUT Model:		APOS A8
Operation Frequency:		13.56 MHz
Modulation Type:		ASK
Rated Input Voltage:		DC 7.2V from battery or DC 5V from Adapter
Adapter Information:	Model:	P12GUSB050200
	Input:	AC 100-240V, 50/60Hz, 0.3A
	Output:	DC 5.0V, 2.0A
Serial Number:		RXM200310053-RF -S7
EUT Received Date:		2020.03.15
EUT Received Status:		Good

Note: Per pre-test of FCC Part 15B test, the EUT configuration #1 was the worst, and was selected to perform the test items in this report. The EUT configuration information as below, and more please refer to the Product similarity declaration.

EUT Configuration	Screen Model	Manufacturer	Serial Number
#1	MDT0550B	SKYWORTH LCD MODULES(SHENZHEN) CO., LTD	RXM200310053-RF-S4
#2	MDT0550B	TIANMA MICRO-ELECTRONICS Corporation	RXM200310053-RF-S5

Objective

This type approval report is prepared on behalf of **INGENICO** 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.

Related Submittal(s)/Grant(s)

FCC Part 15C DTS, DSS, 15B JBP, Part 22H, 24E, 27.90 PCE submissions with
FCC ID: XKB-APOSA8WULEWF.

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 %
radiated Emissions	9kHz~30MHz: 4.12dB, 30M~200MHz: 4.55 dB, 200M~1GHz: 5.92 dB
Temperature	±1℃
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)

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

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, 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 “ Δ ”. 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 is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

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This report may contain data that are not covered by the accreditation scope and shall be marked with an asterisk “★”.

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.

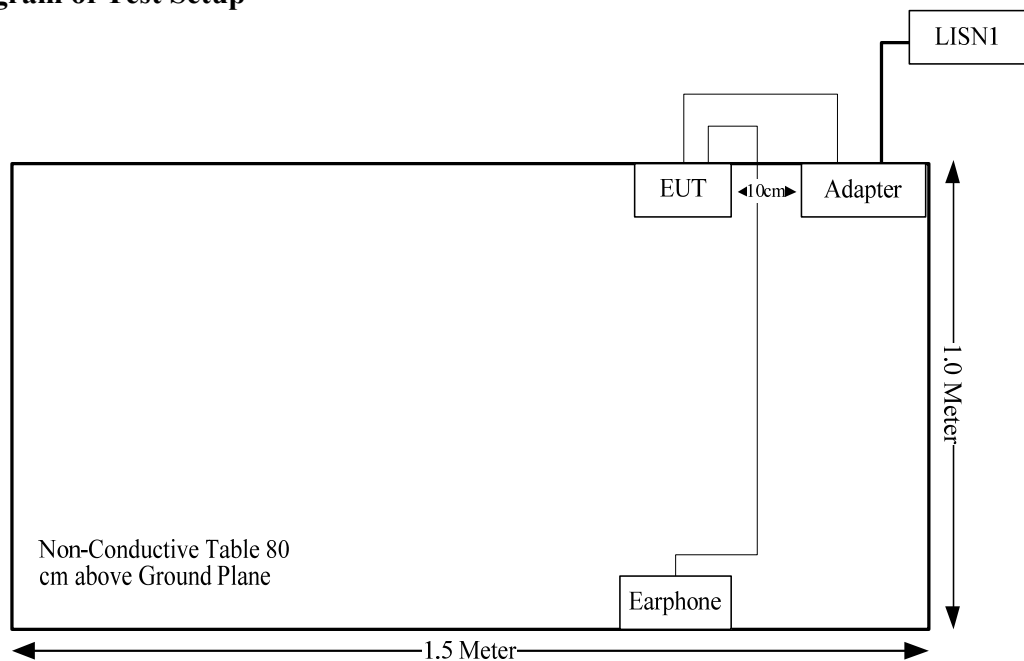
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
1MORE	Earphone	1m301	5521427

Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Earphone Cable	No	No	1.0	EUT	Earphone
USB Cable	No	No	0.8	Adapter	EUT

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&99% Occupied 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. Please refer to below information and the EUT photos:

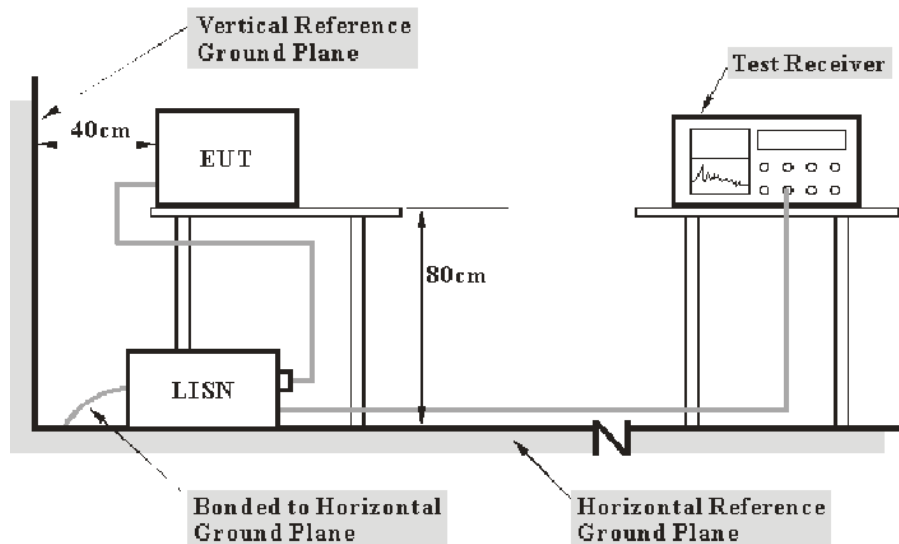
Result: Compliance.

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

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2019-09-05	2020-09-05
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2019-09-12	2020-09-12
R&S	EMI Test Receiver	ESCI	101121	2019-05-09	2020-05-09

* **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.

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

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

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 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

A_C : attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

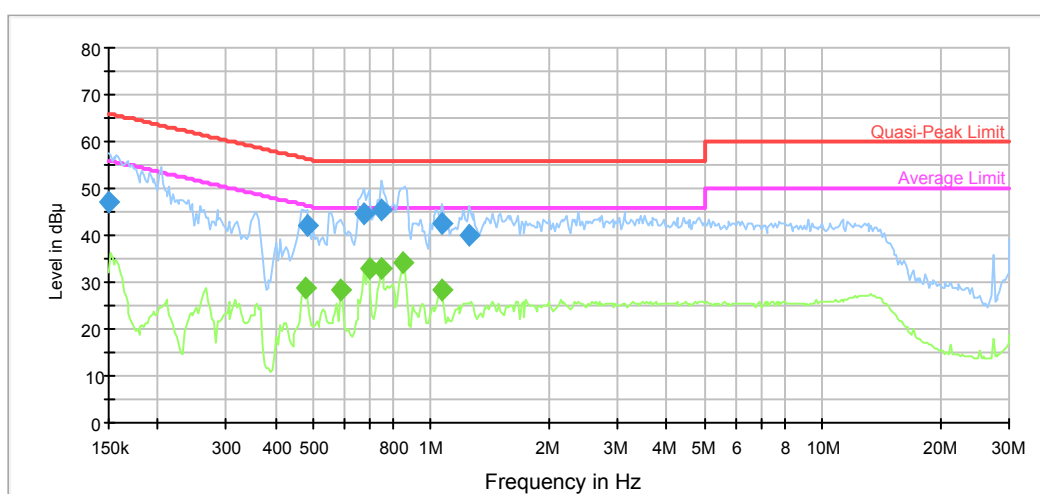
The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data**Environmental Conditions**

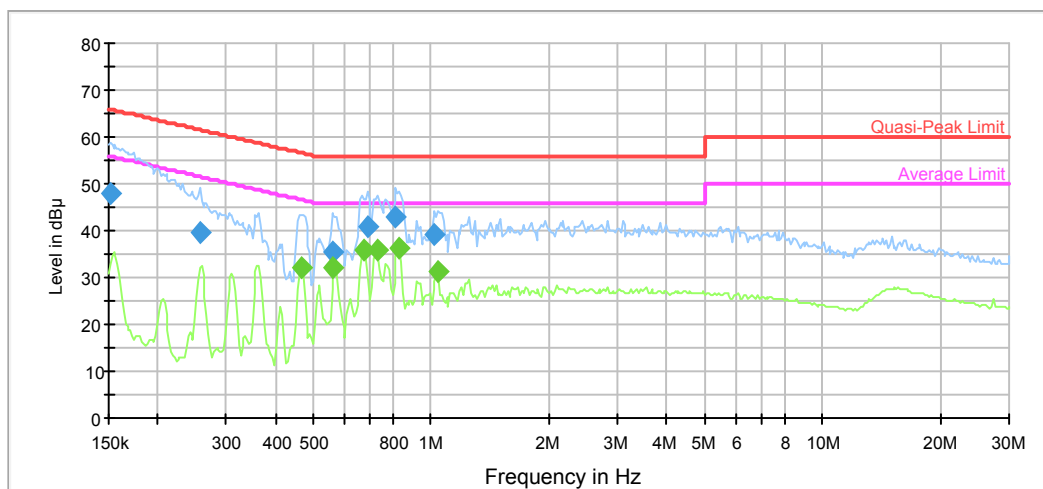
Temperature:	21.3 °C
Relative Humidity:	65 %
ATM Pressure:	101.4 kPa
Tester:	Sem Xiang
Test Date:	2020-04-01

Test Mode: Transmitting
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.150000	47.2	9.000	L1	9.7	18.8	66.0
0.480499	42.0	9.000	L1	9.7	14.3	56.3
0.673937	44.5	9.000	L1	9.7	11.5	56.0
0.744445	45.5	9.000	L1	9.7	10.5	56.0
1.065129	42.5	9.000	L1	9.7	13.5	56.0
1.248947	39.9	9.000	L1	9.7	16.1	56.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.475741	28.8	9.000	L1	9.7	17.6	46.4
0.586300	28.5	9.000	L1	9.7	17.5	46.0
0.694357	32.7	9.000	L1	9.7	13.3	46.0
0.744445	33.1	9.000	L1	9.7	12.9	46.0
0.847248	34.0	9.000	L1	9.7	12.0	46.0
1.065129	28.4	9.000	L1	9.7	17.6	46.0

AC120 V, 60 Hz, Neutral:

Frequency (MHz)	QuasiPeak (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.151500	47.8	9.000	N	9.7	18.1	65.9
0.256712	39.5	9.000	N	9.7	22.1	61.5
0.557844	35.5	9.000	N	9.6	20.5	56.0
0.687483	40.7	9.000	N	9.6	15.3	56.0
0.814189	42.8	9.000	N	9.6	13.2	56.0
1.023568	39.0	9.000	N	9.6	17.0	56.0

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBμV)
0.466367	32.3	9.000	N	9.6	14.3	46.6
0.563423	32.2	9.000	N	9.6	13.8	46.0
0.673937	36.0	9.000	N	9.6	10.0	46.0
0.729777	35.8	9.000	N	9.6	10.2	46.0
0.830554	36.4	9.000	N	9.6	9.6	46.0
1.044142	31.4	9.000	N	9.6	14.6	46.0

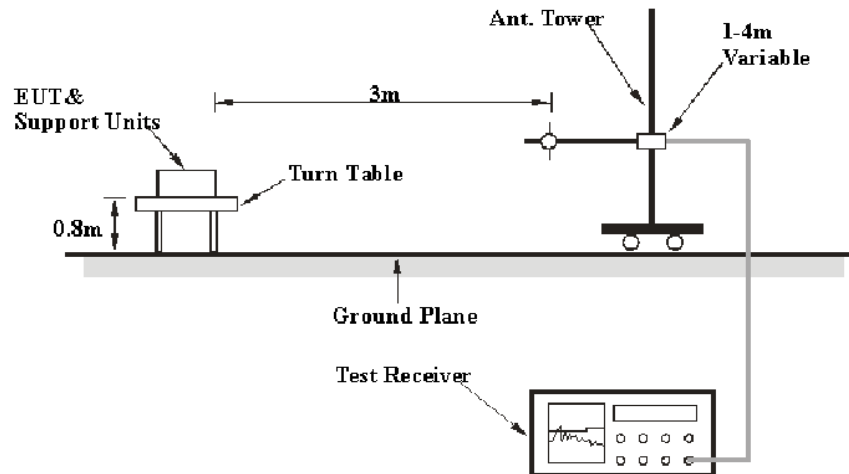
FCC§15.225, §15.205 & §15.209- RADIATED EMISSIONS

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:

$$\text{Corr. Ampl.} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Limit} - \text{Corr. Ampl.}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
EMCO	Passive Loop	6512	9706-1206	2020-03-05	2023-03-04
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2019-05-06	2020-05-06
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05

* **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

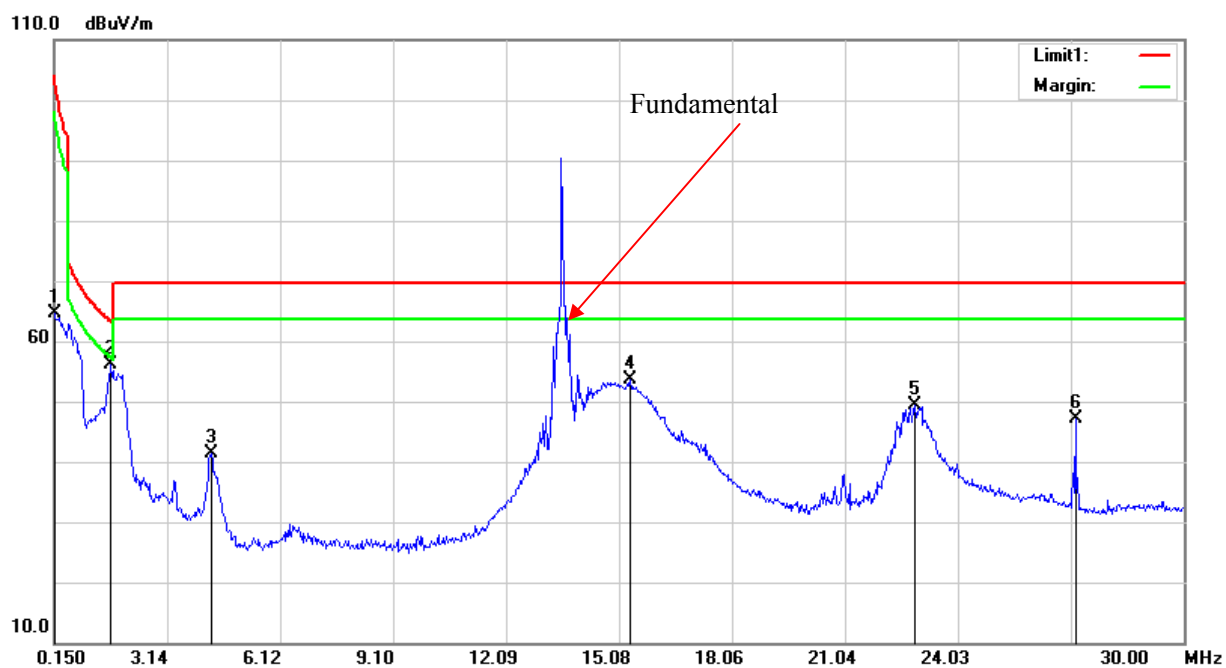
Test Items	Radiation Below 1GHz
Temperature:	24.1°C
Relative Humidity:	51%
ATM Pressure:	100.9 kPa
Tester:	Tyler Pan
Test Date:	2020-03-28

Test mode: Transmitting

1) 9 kHz~30 MHz:

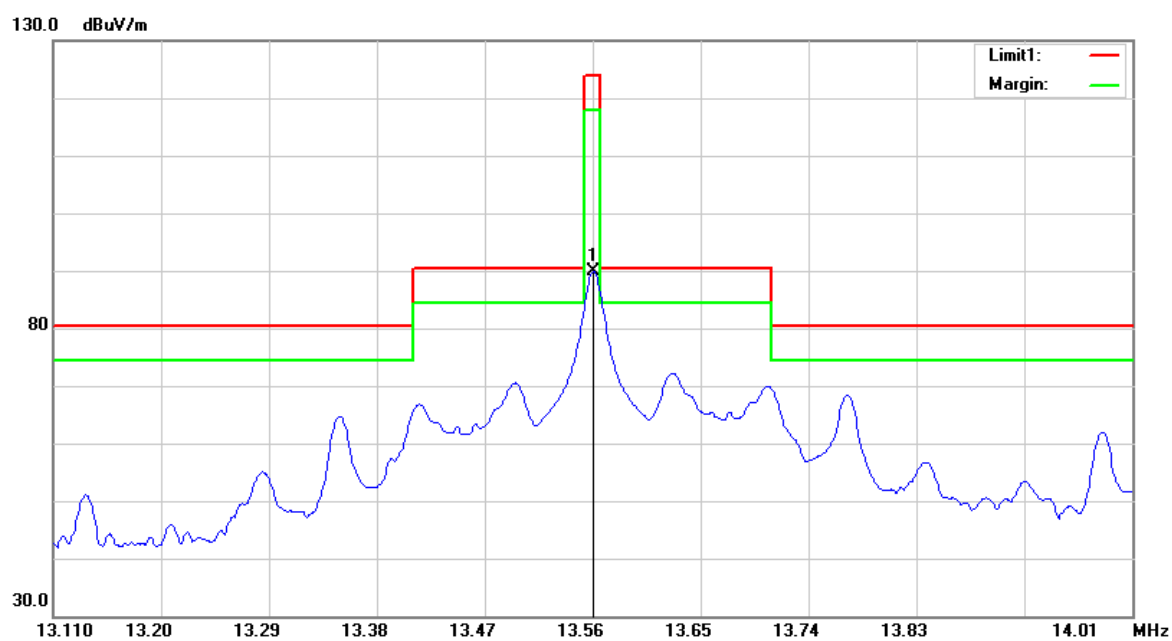


Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.0190	-8.56	peak	81.21	72.65	122.03	49.38
0.0240	-4.81	peak	79.02	74.21	120.00	45.79
0.0424	-5.15	peak	74.78	69.63	115.06	45.43
0.0751	3.00	peak	69.23	72.23	110.09	37.86
0.0972	-0.62	peak	66.95	66.33	107.85	41.52
0.1275	-3.83	peak	65.24	61.41	105.49	44.08



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
0.1500	26.12	peak	38.62	64.74	104.08	39.34
1.6425	37.85	peak	18.31	56.16	63.28	7.12
4.2991	29.85	peak	11.55	41.40	69.54	28.14
15.3734	44.27	peak	9.27	53.54	69.54	16.00
22.8957	40.37	peak	9.03	49.40	69.54	20.14
27.1343	38.12	peak	8.91	47.03	69.54	22.51

Fundamental:



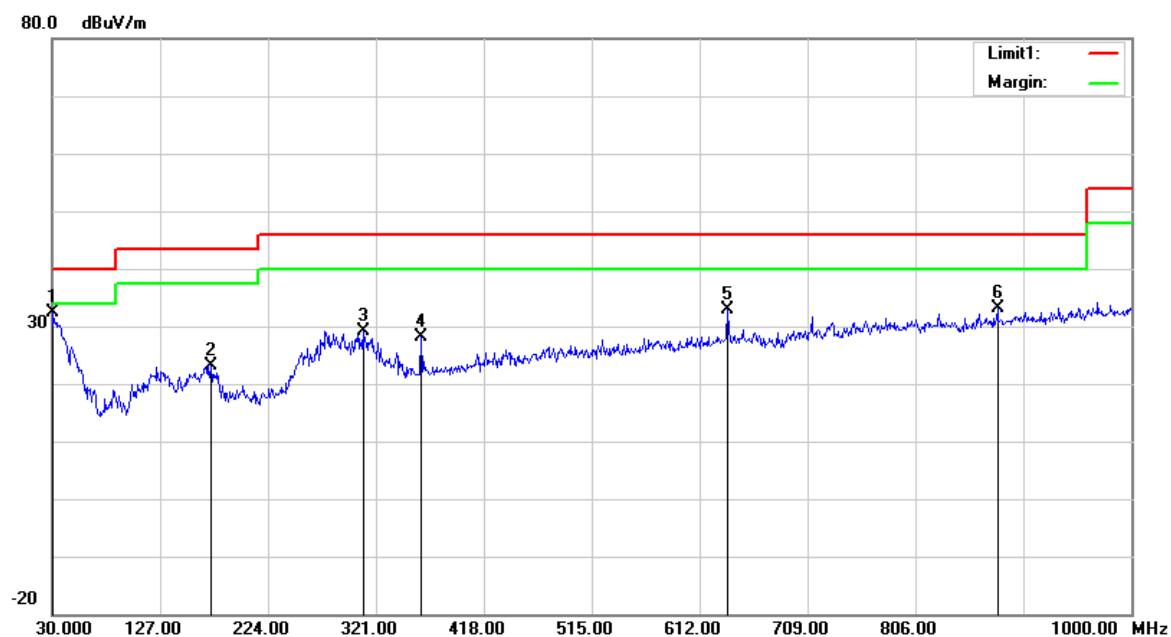
Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
13.5610	80.59	peak	9.36	89.95	124.00	34.05

30MHz-1GHz

Horizontal

Frequency (MHz)	Receiver Reading (dB μ V)	Detector	Correction Factor (dB)	Cord. Amp. (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)
30.9700	29.76	peak	0.91	30.67	40.00	9.33
262.8000	42.60	QP	-4.80	37.80	46.00	8.20
279.2900	41.50	QP	-4.14	37.36	46.00	8.64
339.4300	37.14	peak	-3.44	33.70	46.00	12.30
412.1800	30.87	peak	-1.78	29.09	46.00	16.91
903.9700	34.81	peak	0.16	34.97	46.00	11.03

Vertical



Frequency (MHz)	Receiver Reading (dBμV)	Detector	Correction Factor (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
30.9700	31.51	peak	0.91	32.42	40.00	7.58
172.5900	29.93	peak	-6.79	23.14	43.50	20.36
309.3600	32.66	peak	-3.61	29.05	46.00	16.95
361.7400	30.88	peak	-2.80	28.08	46.00	17.92
637.2200	30.76	peak	2.20	32.96	46.00	13.04
879.7200	33.61	peak	-0.47	33.14	46.00	12.86

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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop	6512	9706-1206	2020-03-05	2023-03-04
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05
ESPEC	Constant temperature and humidity Tester	ESX-4CA	018 463	2020-03-26	2021-03-26
UNI-T	Multimeter	UT39A	M130199938	2019-07-23	2020-07-23
Pro instrument	DC Power Supply	pps3300	3300012	N/A	N/A

* **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:	24.1°C
Relative Humidity:	51%
ATM Pressure:	100.9 kPa
Tester:	Tyler Pan
Test Date:	2020-03-28

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	7.2	13.56064	638.7	±1356
-10		13.56064	640	±1356
0		13.56064	640	±1356
10		13.56064	641	±1356
20		13.56063	630	±1356
25		13.56064	636.5	±1356
30		13.56070	697	±1356
40		13.56069	690	±1356
50		13.56066	657	±1356
60		13.56069	690	±1356
25	6.4	13.56069	687	±1356
25	8.4	13.56070	697	±1356

FCC §15.215(c)– 20 dB BANDWIDTH&99% Occupied Bandwidth Test**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.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
EMCO	Passive Loop	6512	9706-1206	2020-03-05	2023-03-04
R&S	EMI Test Receiver	ESR3	102453	2019-09-12	2020-09-12
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2019-09-05	2020-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2019-09-05	2020-09-05
HP	Amplifier	8447D	2727A05902	2019-09-05	2020-09-05

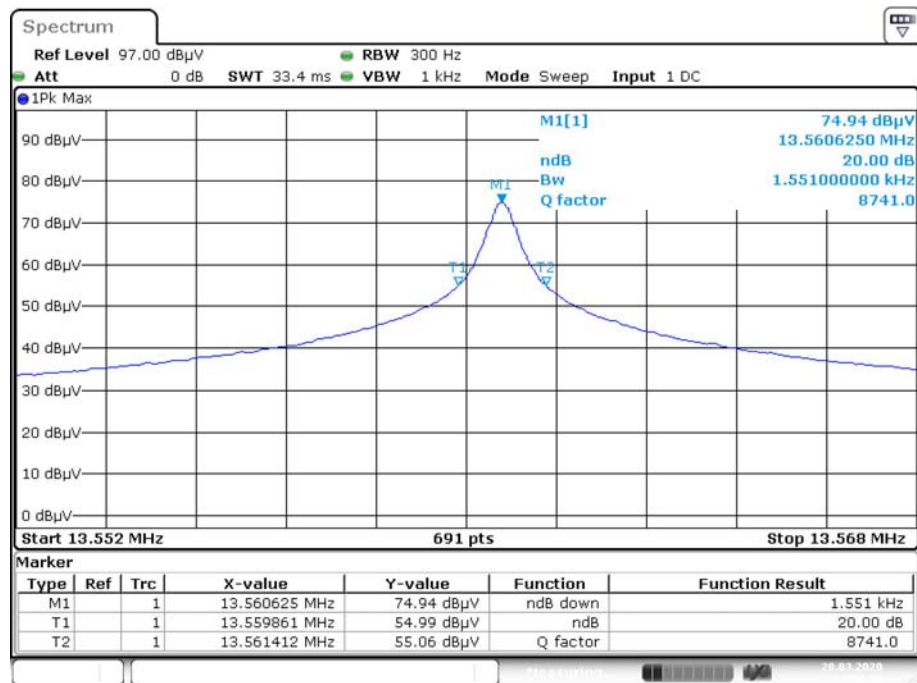
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data**Environmental Conditions**

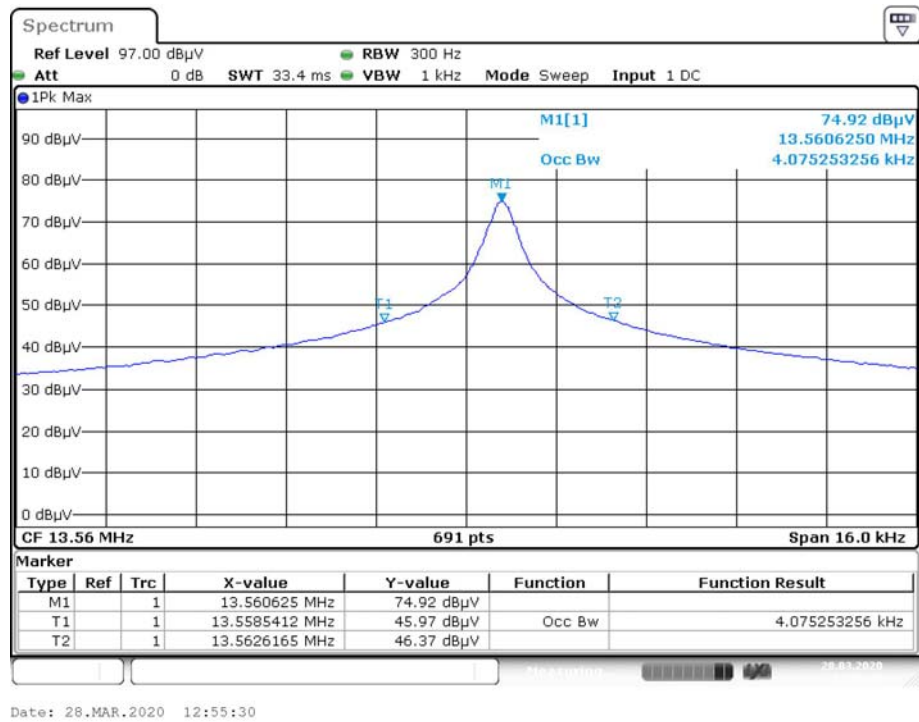
Temperature:	24.1°C
Relative Humidity:	51%
ATM Pressure:	100.9 kPa
Tester:	Tyler Pan
Test Date:	2020-03-28

Test Mode: Transmitting

Frequency (MHz)	20 dB Bandwidth (kHz)	99% Occupied Bandwidth (kHz)
13.56	1.551	4.075

20 dB Bandwidth

99% Occupied Bandwidth



***** END OF REPORT *****