



FCC LISTED, REGISTRATION  
NUMBER: 2764.01

ISED LISTED REGISTRATION  
NUMBER: 23595-1

Test report No:  
**3447ERM.004A1**

## Test report

USA FCC Part 15.225 and Part 15.209

CANADA RSS-210, RSS-Gen

Identification of item tested	EV Charging Station
Trademark	EVBox
Model and /or type reference	EVBox Iqon
Other identification of the product	Charging station with RF Technologies: RFID, LTE, WiFi, Bluetooth , RFComm (902-928MHz)
Features	N/A
Manufacturer	EVBox BV Kabelweg 47, 1014 BA, Amsterdam, The Netherlands
Test method requested, standard	USA FCC Part 15.225 (10-1-19 Edition): Operation within the band 13.110 -14.010. USA FCC Part 15.209 (10-1-19 Edition): Radiated emission limits, general requirements. CANADA RSS-210 Issue 10 (Dec 2019). CANADA RSS-Gen Issue 5 (April 2018). ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.
Summary	IN COMPLIANCE
Approved by (name / position & signature)	Domingo Galvez EMC&RF Lab Manager
Date of issue	10-30-2021
Report template No	FDT08_23 <small>(*) "Data provided by the client"</small>

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## Competences and guarantees

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DEKRA Certification Inc. is a testing laboratory accredited by A2LA (The American Association for Laboratory Accreditation), to perform the tests indicated in the Certificate 2764.01

DEKRA Certification Inc. is a testing laboratory competent to carry out the tests described in this report.

In order to assure the traceability to other national and international laboratories, DEKRA Certification Inc. has a calibration and maintenance program for its measurement equipment.

DEKRA Certification Inc. guarantees the reliability of the data presented in this report, which is the result of the measurements and the tests performed to the item under test on the date and under the conditions stated on the report and, it is based on the knowledge and technical facilities available at DEKRA Certification at the time of performance of the test.

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The results presented in this Test Report apply only to the particular item under test established in this document.

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## General conditions

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1. This report is only referred to the item that has undergone the test.
2. This report does not constitute or imply on its own an approval of the product by the Certification Bodies or competent Authorities.
3. This document is only valid if complete; no partial reproduction can be made without previous written permission of DEKRA Certification Inc.
4. This test report cannot be used partially or in full for publicity and/or promotional purposes without previous written permission of DEKRA Certification Inc. and the Accreditation Bodies.

## Uncertainty

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Uncertainty (factor  $k=2$ ) was calculated according to the DEKRA Certification internal document PODT000.

Frequency (MHz)	U( $k=2$ )	Units
0,009 - 30	2.69	dB
30-180	3.82	dB
180-1000	2.61	dB
1000-18000	2.92	dB
18000-40000	2.15	dB

## Data provided by the client

The device under evaluation consists of a EVBox Iqon which is a charging station with RF technologies RFID, LTE, WiFi, Bluetooth, RFComm(902-928MHz).

DEKRA declines any responsibility with respect to the information provided by the client and that may affect the validity of results.

## Usage of samples

Samples undergoing test have been selected by: The client.

Sample S/01 is composed of the following elements:

Control Nº	Description	Model	Serial Nº	Date of reception
3447/01	Charging Station	EVBox Iqon	EVB-P20390006	28/09/2020

Sample S/01 has undergone following test(s):

All Radiated tests indicated in appendix A.

Sample S/01 is composed of the following accessories:

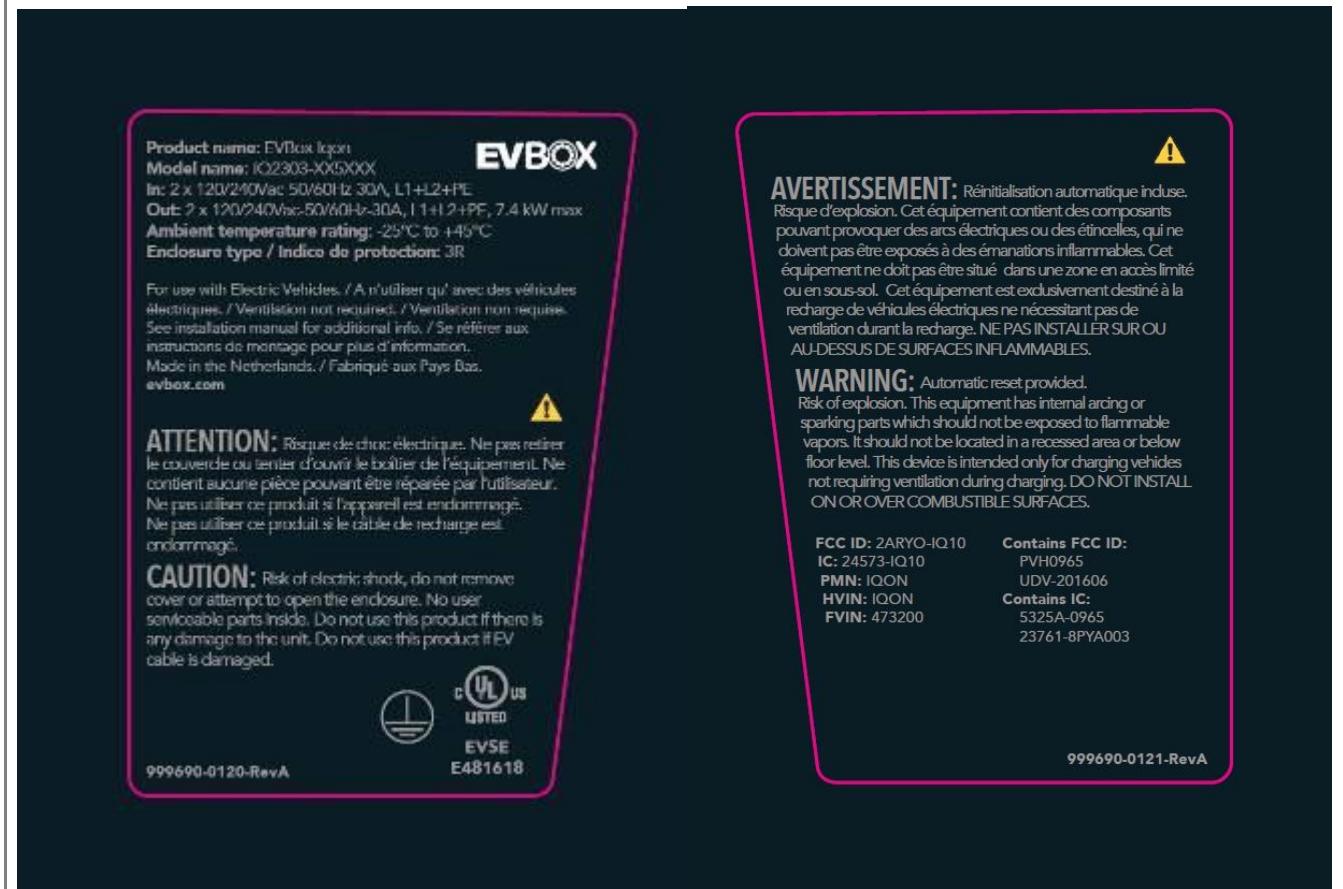
Control Nº	Description	Model	Serial Nº	Date of reception
3447/02	Loadbox	Phillips1000W	1001	-

## Test sample description

Ports.....:	Port name and description	Cable			
		Specified length [m]	Attached during test	Shielded	
	<i>No Data Provided</i>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	
Supplementary information to the ports.....:	No data provided				
Rated power supply .....	Voltage and Frequency	Reference poles			
		L1	L2	L3	N
	<input checked="" type="checkbox"/> AC: 120 / 240 Vac 50/60Hz (External power supply)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Rated Power .....	2x7.2 kW				
Clock frequencies .....	Main MCU (PIC18F67K40) (Chargerbox): 16 MHz CCID MCU (PIC32MM0016GPL28) (Chargerbox): Internal oscillator RFComm MCU (PIC32MM0064GPM028) (Chargerbox): 27.12 MHz Main MCU (PIC32MZ2048EFG064) (Chargepoint): 24 MHz BT+WiFi module (ODIN-W262): 26 MHz and 24 MHz 4G module (SIM7500A): 19.2 MHz RFID MCU (CLRC663): 27.12 MHz				
Other parameters.....:	No data Provided				
Software version .....	G4 P0419 BQ419 v13				
Hardware version.....:	190321				
Dimensions in cm (L x W x D) ....:	420 mm x 1843 mm x 290 mm				
Mounting position.....:	<input type="checkbox"/> Table top equipment <input type="checkbox"/> Wall/Ceiling mounted equipment <input checked="" type="checkbox"/> Floor standing equipment <input type="checkbox"/> Hand-held equipment <input type="checkbox"/> Other:				
Modules/parts .....	Module/parts of test item	Type	Manufacturer		
	<i>No Data Provided</i>	S5	UM		
Accessories (not part of the test item) .....	Description	Type	Manufacturer		
	No data Provided				
Documents as provided by the	Description	File name	Issue date		

applicant.....:	<i>Equipment declaration Data</i>	FDT30_14 Declaration Equipment Data_NA	

**Copy of marking plate:**



## Identification of the client

EVBox BV  
Kabelweg 47, 1014 BA, Amsterdam, The Netherlands

## Testing period and place

<b>Test Location</b>	DEKRA Certification Inc.
<b>Date (start)</b>	2020-11-01
<b>Date (finish)</b>	2020-12-06

## Document history

Report number	Date	Description
3447ERM.004	09-17-2021	First release
3447ERM.004A1	10-30-2021	Second release

## Modifications to the reference test report

It was introduced the following modifications in respect to the test report number 3447ERM.004 related with the same samples, in the next clauses and sub-clauses:

Clauses/ Sub-Clauses	Modification	Justification
Antenna type	Updated test report to include antenna type on Page 13	Typo error

This modification test report cancels and replaces the test report 3447ERM.004

## Environmental conditions

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In the control chamber, the following limits were not exceeded during the test:

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 30 % Max. = 75 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar

In the semianechoic chamber, the following limits were not exceeded during the test.

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 30 % Max. = 75 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar

In the chamber for conducted measurements, the following limits were not exceeded during the test:

<b>Temperature</b>	Min. = 15 °C Max. = 35 °C
<b>Relative humidity</b>	Min. = 30 % Max. = 60 %
<b>Air pressure</b>	Min. = 860 mbar Max. = 1060 mbar

## Remarks and comments

The tests have been performed by the technical personnel: Lourdes and Koji Nishimoto.

## Testing verdicts

Not applicable :	N/A
Pass :	P
Fail :	F
Not measured :	N/M

## Summary

FCC PART 15 PARAGRAPH / RSS-210					
Report Section	15.225 Spec Clause	RSS Spec Clause	Test Description	Verdict	Remark
A.1		RSS-Gen 6.7	99% Occupied Bandwidth	P	N/A
A.2	§ 15.225 (a)	RSS-210 Clause B.6 (a).	Field Strength of emissions within the band 13.553 MHz – 13.567 MHz	P	N/A
A.3	§ 15.225 (b)	RSS-210 Clause B.6 (b).	Field Strength of emissions within the band 13.410 MHz – 13.553 MHz and 13.567 – 13.710 MHz	P	N/A
A.4	§ 15.225 (c)	RSS-210 Clause B.6 (c).	Field Strength of emissions within the band 13.110 MHz – 13.410 MHz and 13.710 – 14.010 MHz	P	N/A
A.5	§ 15.225 (d)	RSS-210 Clause B.6 (d).	Field Strength of emissions outside of the Band 13.110 MHz – 13.410 MHz	P	N/A
A.6	§ 15.225 (e)	RSS-210 Clause B.6	Frequency Tolerance of the carrier signal.	P	N/A
A.7	§ 15.207		Conducted Emissions	P	N/A

Supplementary information and remarks:

N/A

## List of equipment used during the test

### Radiated Measurements

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1012	EMI Test Receiver	ROHDE & SCHWARZ	ESR26	2019/12	2021/12
1064	Biconilog Antenna	ETS LINDGREN	3142E	2020/08	2023/08
1017	EMC measurement software	ROHDE & SCHWARZ	EMC32 V9.01	---	---
1062	Active Loop Antenna	ETS LINDGREN	6502	2020/05	2023/05
1057	Horn Antenna	ETS LINDGREN	3115	2020/06	2023/06
1056	Horn Antenna	ETS LINDGREN	3116C	2020/01	2023/01
1108	Ethernet SNMP Thermometer- CR Room	HW GROUP	HWg-STE Plain	2020/08	2021/08
1111	Ethernet SNMP Thermometer- SAC	HW GROUP	HWg-STE Plain	2020/08	2021/08

### Conducted Measurements

CONTROL NUMBER	DESCRIPTION	MANUFACTURER	MODEL	LAST CALIBRATION	NEXT CALIBRATION
1039	Signal analyzer	Rohde & Schwarz	FSV40	2020/09	2022/09
0101	Climatic Chamber	Espec	ESL-2CA	2020/04	2021/04

## **Appendix A: Test results**

## Appendix A Content

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## PRODUCT INFORMATION

The following information is provided by the client:

Information	Description
Operating Frequency Band or Bands	11.810 MHz to 15.310 MHz (NFC Centre Frequency is 13.56 MHz)
Operating Frequency or Frequencies	13.56 MHz
Channel Bandwidth	--
Extreme operating conditions	
- Temperature range	-25 °C to +45 °C
Antenna type	Integral
Antenna gain	1 dBi
Nominal Voltage	
- Supply Voltage	90 V – 264 Vac (120 V Normal)
- Type of power source	AC voltage

Test modes available:

- Nominal Operating Frequency NFC: 13.56 MHz

## DESCRIPTION OF TEST CONDITIONS

TEST CONDITIONS	DESCRIPTION
TC#01	<p><u>Power supply (V):</u> <math>V_{nominal} = 240V_{ac}</math></p> <p><u>Type of power supply:</u> AC voltage</p> <p><u>Temperature (°C):</u> <math>T_{nom} = +15 \text{ to } +35 \text{ °C}</math> <math>T_{min} = -25 \text{ (*)}</math> <math>T_{max} = +45 \text{ (*)}</math></p> <p>The subscript nom indicates normal test conditions. The subscripts min and max indicate extreme test conditions (minimum and maximum respectively).</p> <p><u>Test Frequencies for tests (NFC):</u> 13.56 MHz</p> <p>The test was performed with the equipment transmitting with NFC..</p>

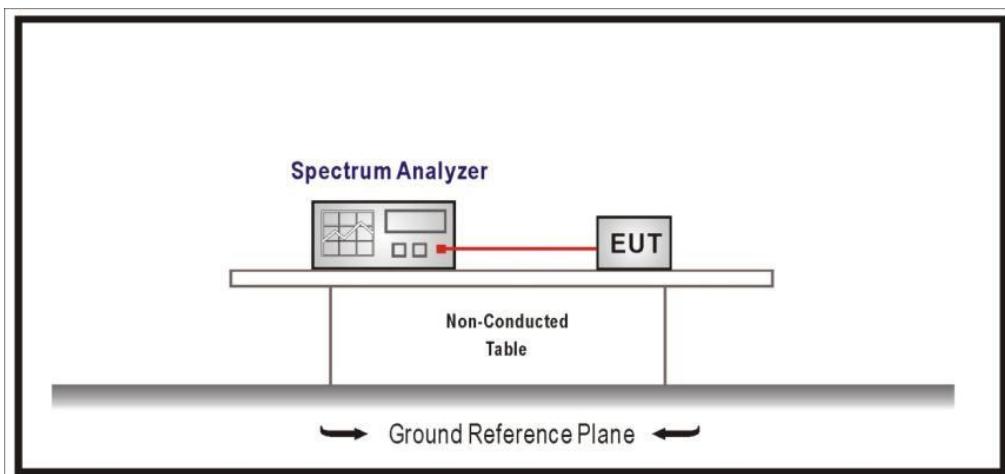
## TEST A.1: 99% OCCUPIED BANDWIDTH

<b>LIMITS:</b>	Product standard:	RSS-Gen
	Test standard:	RSS-Gen 6.7

### LIMITS

The occupied bandwidth shall be reported for all equipment in addition to the specified bandwidth required in the applicable RSSs

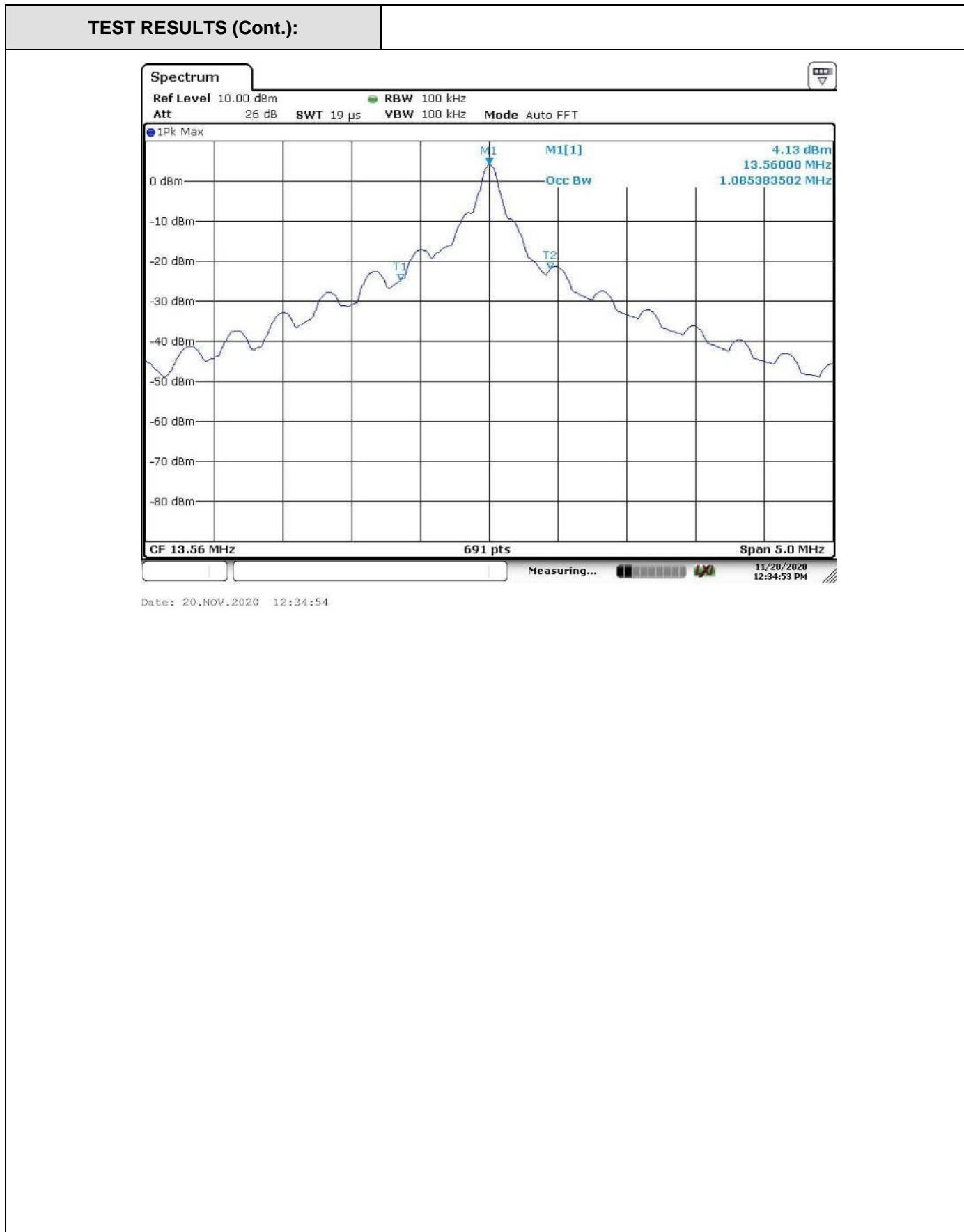
### TEST SETUP



<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#01
<b>TEST RESULTS:</b>	PASS

NFC Operating Frequency: 13.56MHz

Center Frequency (MHz)	13.560
99% bandwidth (KHz)	1085.39
Measurement Uncertainty (KHz)	<±0.28



## TEST A.2: FIELD STRENGTH OF EMISSIONS WITHIN THE BAND 13.553 MHZ – 13.567 MHZ

<b>LIMITS:</b>	Product standard:	Part 15 Subpart C §15.225 and RSS-210
	Test standard:	Part 15 Subpart C §15.225(a) and RSS-210 clause B.6 (a)

### LIMITS

The field strength of any emissions within the band 13.553 – 13.567 MHz shall not exceed 15,848 microvolts/meter (84 dB $\mu$ V/m) at 30 meters.

### **TEST SETUP**

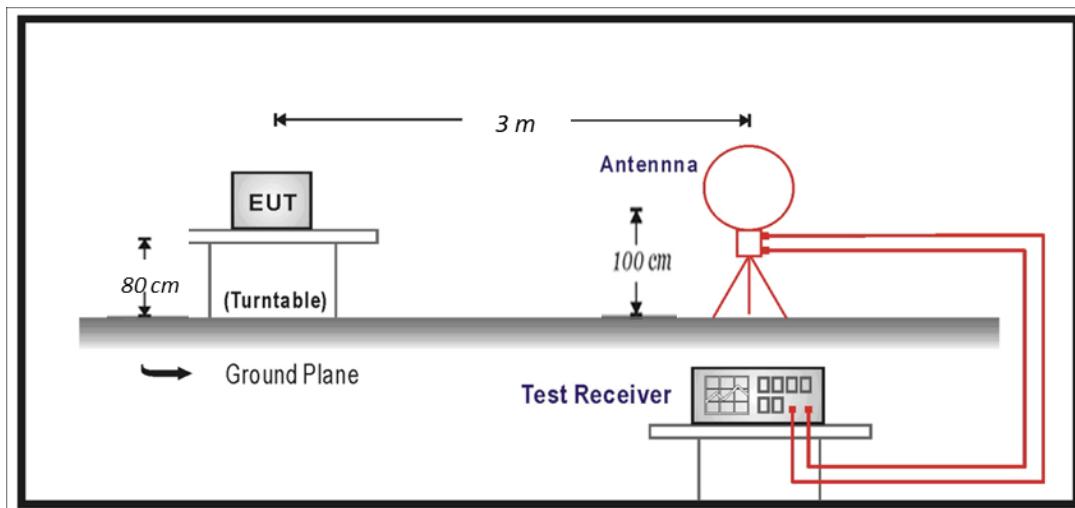
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Loop antenna for the range between 9 kHz to 30 MHz) is situated at a distance of 3 m.

For radiated emissions in the range 9 kHz to 30 MHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 40 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° to find the maximum radiated emission.

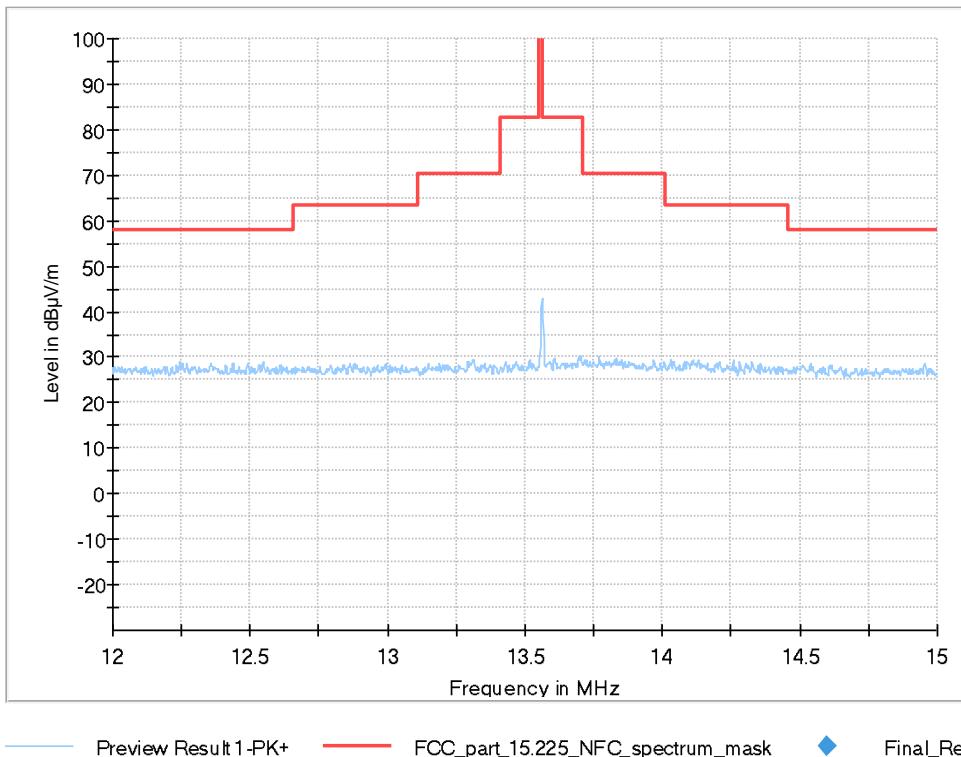
Three different orientations (X, Y, and Z) of receiving loop antenna orientation were tested to determine the worst case shown in the following test results.

Radiated measurements setup 9 kHz to 30 MHz.



TESTED SAMPLES:	S/01
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	PASS

**Band 13.553 MHz – 13.567 MHz**



**Final Result**

Frequency (MHz)	QuasiPeak (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)
13.562	40.90	115.80	74.90	1000	9	100.0	V	303.0

## TEST A.3: FIELD STRENGTH OF EMISSIONS WITHIN THE BAND 13.410 MHZ – 13.553 MHZ AND 13.567 – 13.710 MHZ

<b>LIMITS:</b>	Product standard:	Part 15 Subpart C §15.225 and RSS-210
	Test standard:	Part 15 Subpart C §15.225(b) and RSS-210 clause B.6 (b)

### LIMITS

The field strength of any emissions within the band 13.553 – 13.567 MHz shall not exceed 334 microvolts/meter (50.47 dB $\mu$ V/m at 30 meters).

### **TEST SETUP**

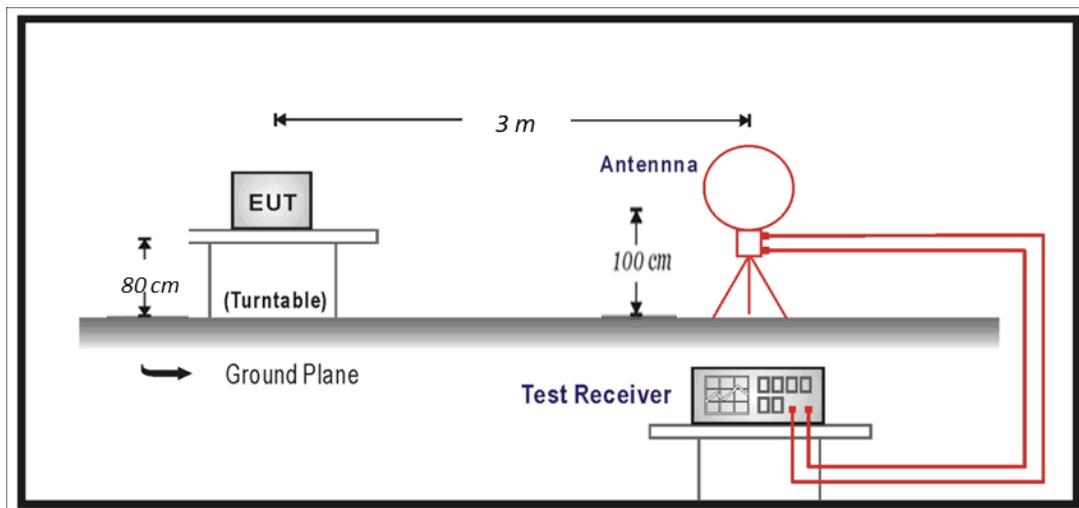
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Loop antenna for the range between 9 kHz to 30 MHz) is situated at a distance of 3 m.

For radiated emissions in the range 9 kHz to 30 MHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 40 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° to find the maximum radiated emission.

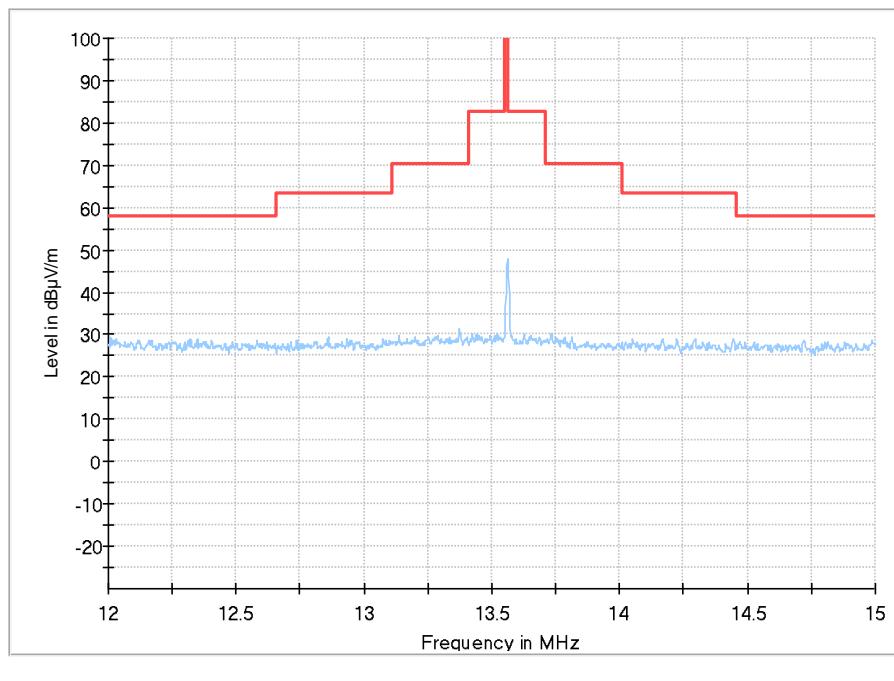
Three different orientations (X, Y, and Z) of receiving loop antenna orientation were tested to determine the worst case shown in the following test results.

Radiated measurements setup 9 kHz to 30 MHz.



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#01
TEST RESULTS:	PASS

**Band 13.410 MHz – 13.553 MHz**



## TEST A.4: FIELD STRENGTH OF EMISSIONS WITHIN THE BAND 13.110 MHZ – 13.410 MHZ AND 13.710 – 14.010 MHZ

<b>LIMITS:</b>	Product standard:	Part 15 Subpart C §15.225 and RSS-210
	Test standard:	Part 15 Subpart C §15.225(c) and RSS-210 clause B.6 (c)

### LIMITS

The field strength of any emissions within the band 13.553 – 13.567 MHz shall not exceed 106 microvolts/meter (40.51 dB $\mu$ V/m) at 30 meters.

### **TEST SETUP**

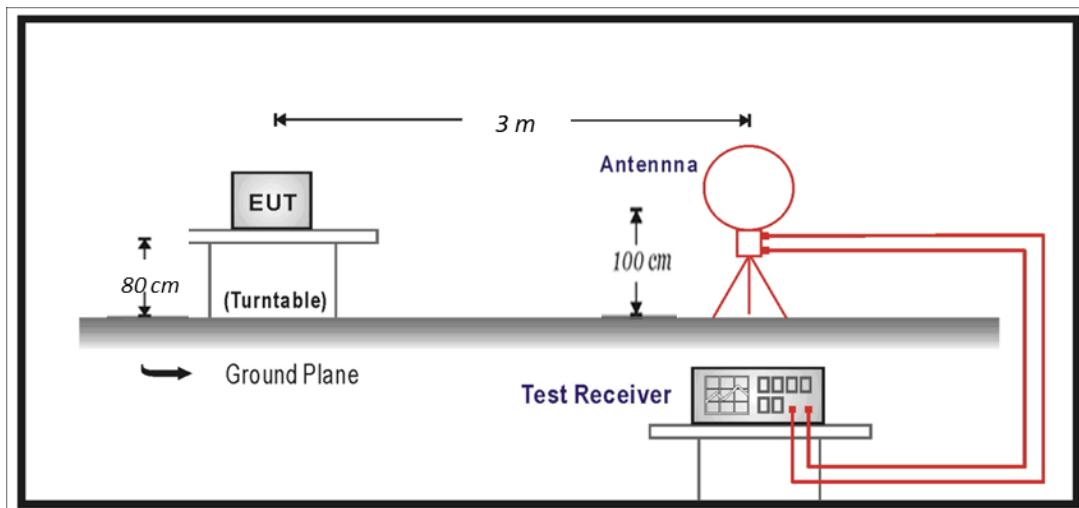
All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Loop antenna for the range between 9 kHz to 30 MHz) is situated at a distance of 3 m.

For radiated emissions in the range 9 kHz to 30 MHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 40 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° to find the maximum radiated emission.

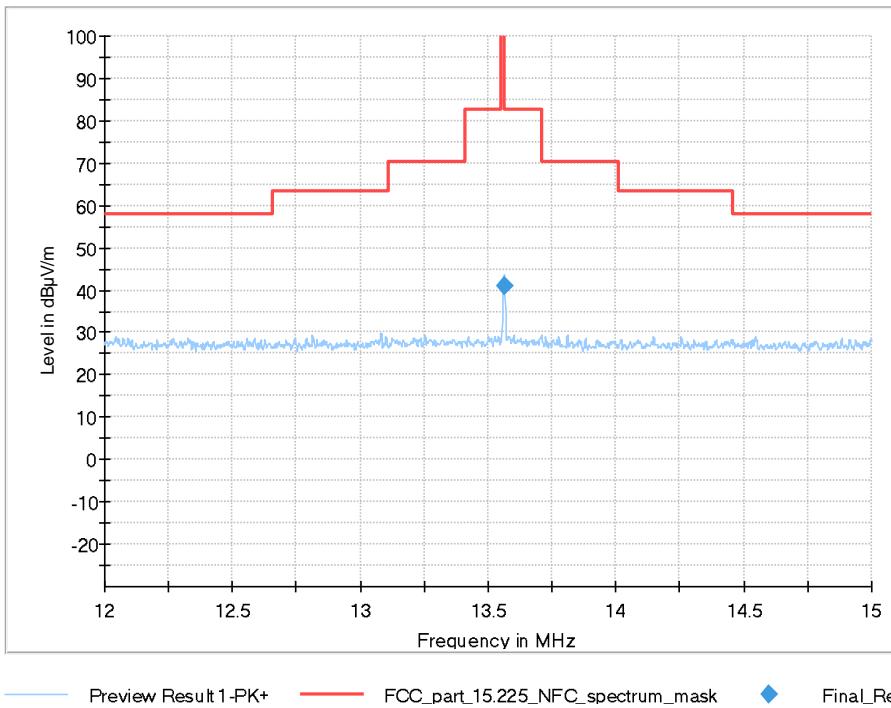
Three different orientations (X, Y, and Z) of receiving loop antenna orientation were tested to determine the worst case shown in the following test results.

Radiated measurements setup 9 kHz to 30 MHz.



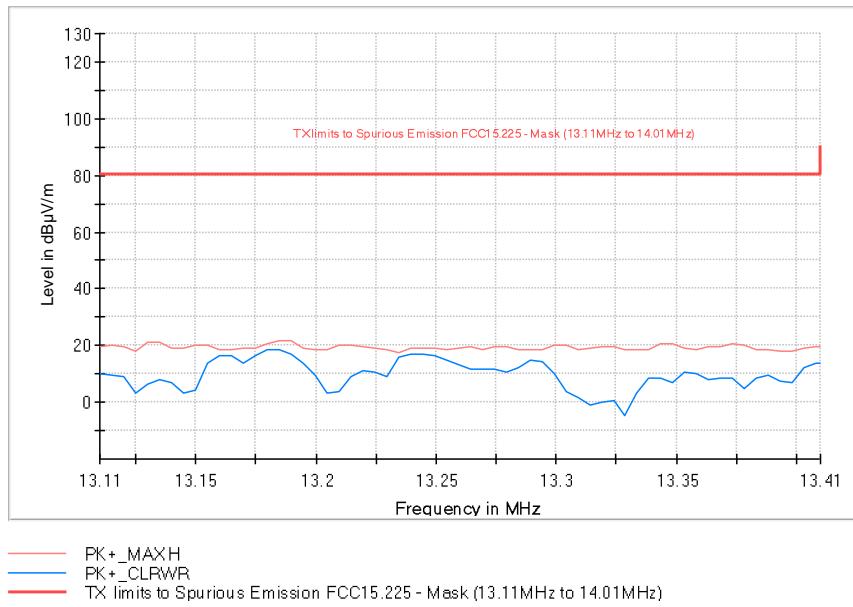
<b>TESTED SAMPLES:</b>	S/02
<b>TESTED CONDITIONS MODES:</b>	TC#01
<b>TEST RESULTS:</b>	PASS

**Band 13.110 MHz – 13.410 MHz**



Frequency (MHz)	PK+_CLRWR (dB $\mu$ V/m)	PK+_MAXH (dB $\mu$ V/m)	Pol	Azimuth (deg)	Margin - PK+ (dB)	Limit - PK+ (dB $\mu$ V/m)
13.9456751	4.71	21.07	H	-180.0	59.45	80.51

**Band 13.710 MHz – 14.010 MHz**



Frequency (MHz)	PK+_CLRWR (dB $\mu$ V/m)	PK+_MAXH (dB $\mu$ V/m)	Pol	Azimuth (deg)	Margin - PK+ (dB)	Limit - PK+ (dB $\mu$ V/m)
13.18948	17.17	21.57	H	-100.0	58.94	80.51

## TEST A.5: FIELD STRENGTH OF EMISSIONS OUTSIDE OF THE BAND 13.110 MHZ – 13.410 MHZ

<b>LIMITS:</b>	Product standard:	Part 15 Subpart C §15.225 and RSS-210
	Test standard:	Part 15 Subpart C §15.225(d) and RSS-210 clause B.6 (d)

### LIMITS

Frequency Range (MHz)	Field strength ( $\mu$ V/m)	Field strength (dB $\mu$ V/m)	Measurement distance (m)
0.009-0.490	2400/F(kHz)	-	300
0.490-1.705	24000/F(kHz)	-	300
1.705 - 30.0	30	29.54	30
30 - 88	100	40	3
88 - 216	150	43.5	3
216 - 960	200	46	3
Above 960	500	54	3

### TEST SETUP

All radiated tests were performed in a semi-anechoic chamber. The measurement antenna (Loop antenna for the range between 9 kHz to 30 MHz and Bilog antenna for the range between 30 MHz to 1 GHz) is situated at a distance of 3 m, and at a distance of 1m for the frequency range 1-26 GHz (1 GHz-18 GHz and 18 GHz-26 GHz Double ridge horn antennas).

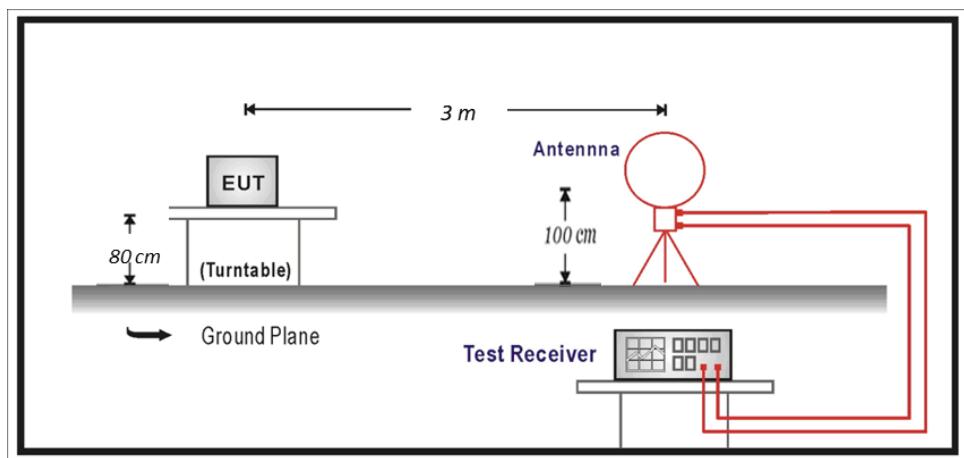
For radiated emissions in the range 9 kHz to 30 MHz that is performed at a distance closer than the specified distance, an inverse proportionality factor of 40 dB per decade is used to normalize the measured data for determining compliance.

The equipment under test was set up on a non-conductive platform above the ground plane and the situation and orientation was varied to find the maximum radiated emission. It was also rotated 360° and in the range between 30 MHz and 200 MHz the antenna height was varied from 1 to 4 meters to find the maximum radiated emission.

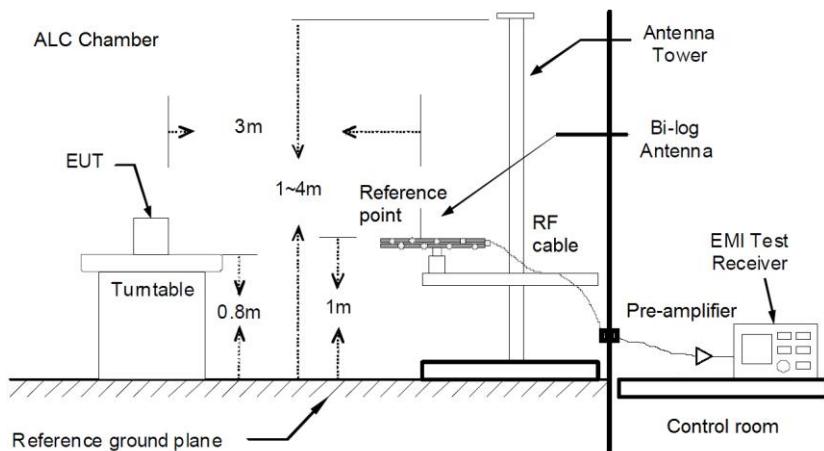
In the range between 9 kHz and 30 MHz three different orientations (X, Y, and Z) of receiving loop antenna were tested to determine the worst case shown in the following test results.

### TEST SETUP (cont.):

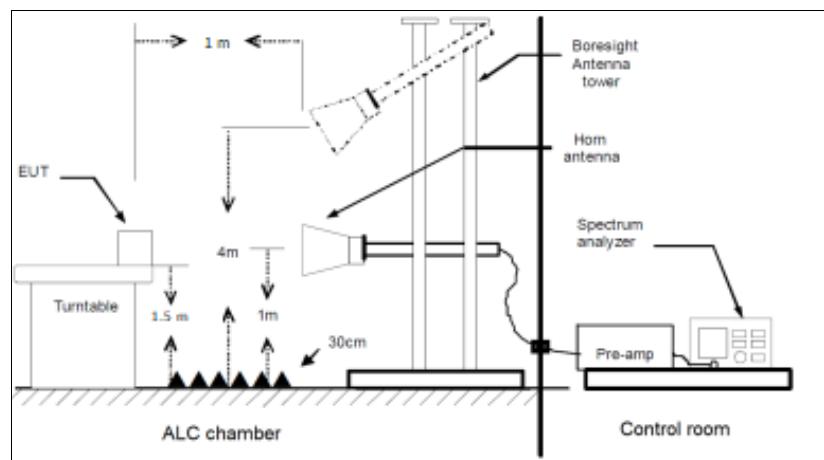
Radiated measurements setup 9 kHz to 30 MHz



Radiated measurements setup 30 MHz to 200 MHz

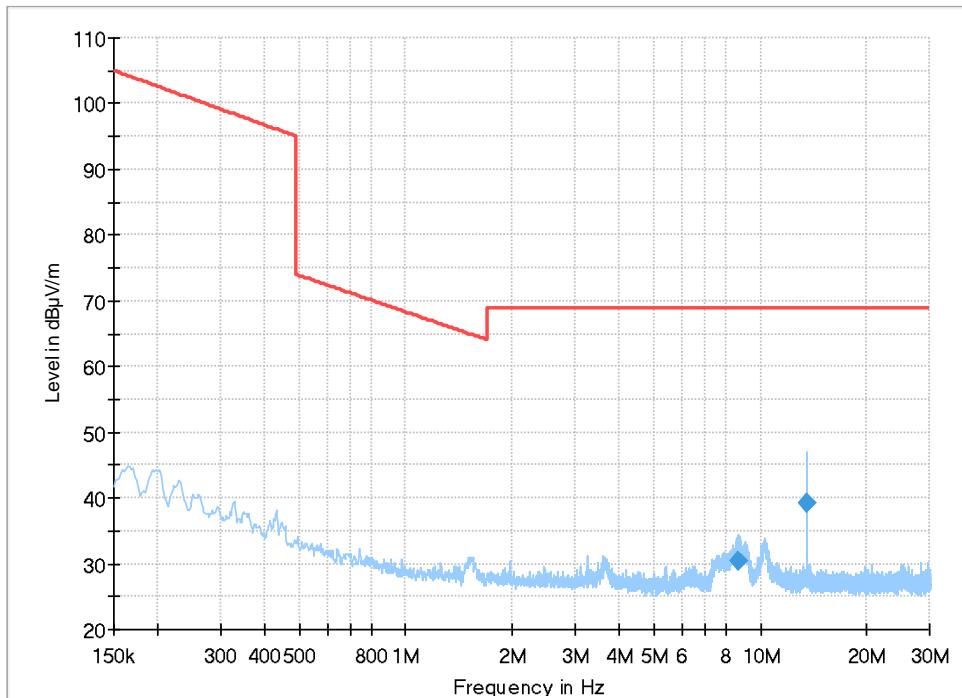


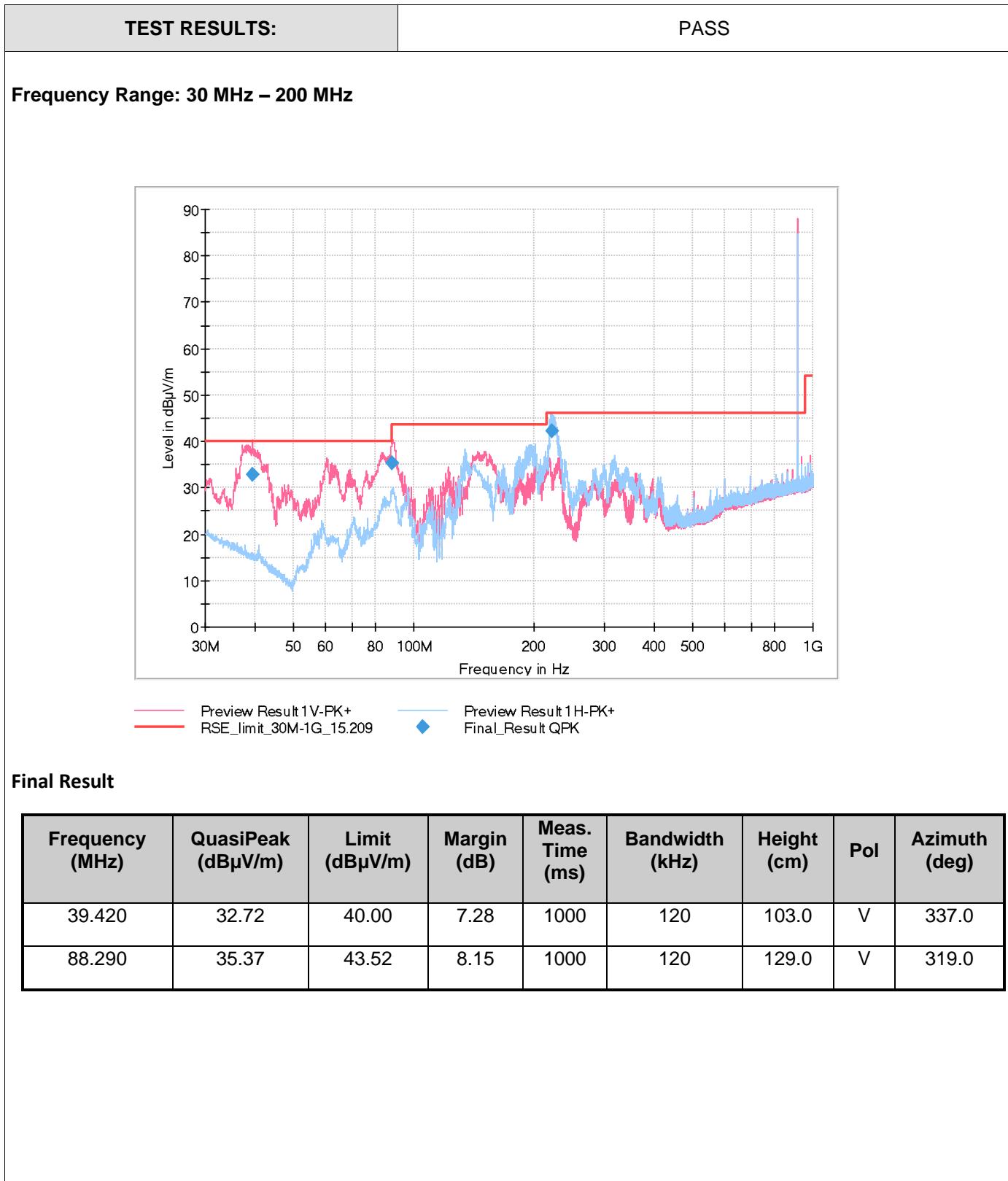
Radiated measurements setup above 1 GHz



TESTED SAMPLES:	S/02
TESTED CONDITIONS MODES:	TC#01(NFC)
TEST RESULTS:	PASS

Frequency Range: 9 KHz – 30 MHz



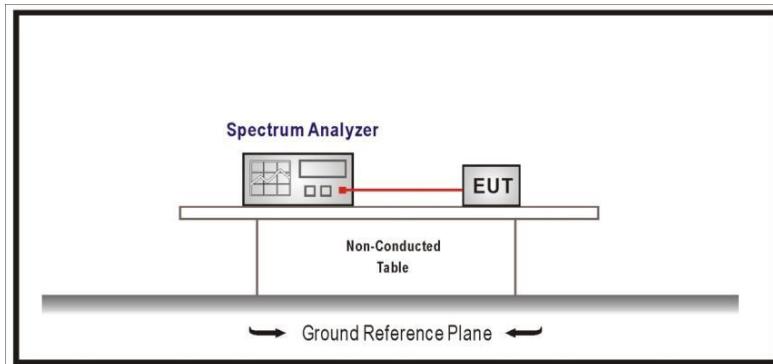


## TEST A.6: FREQUENCY TOLERANCE OF THE CARRIER SIGNAL

<b>LIMITS:</b>	Product standard:	Part 15 Subpart C §15.225 and RSS-210
	Test standard:	Part 15 Subpart C §15.225(e) and RSS-210 clause B.6

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 hand carried, battery powered equipment, reduce primary supply voltage to the battery operating end point which shall be specified by the manufacturer.

### TEST SETUP



<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#01
<b>TEST RESULTS:</b>	PASS

Nominal Operating Frequency: 13.56 MHz

### Frequency stability over temperature variations.

Temperature [°C]	Frequency Measured [MHz]	Limits(within +/-0.01% of the operating frequency)
+50	13.561810 MHz	Flow = 13.42438262. Fhigh = 13.69561738
+20	13.561740 MHz	
-20	13.561738 MHz	

## TEST A.7 : CONDUCTED EMISSIONS

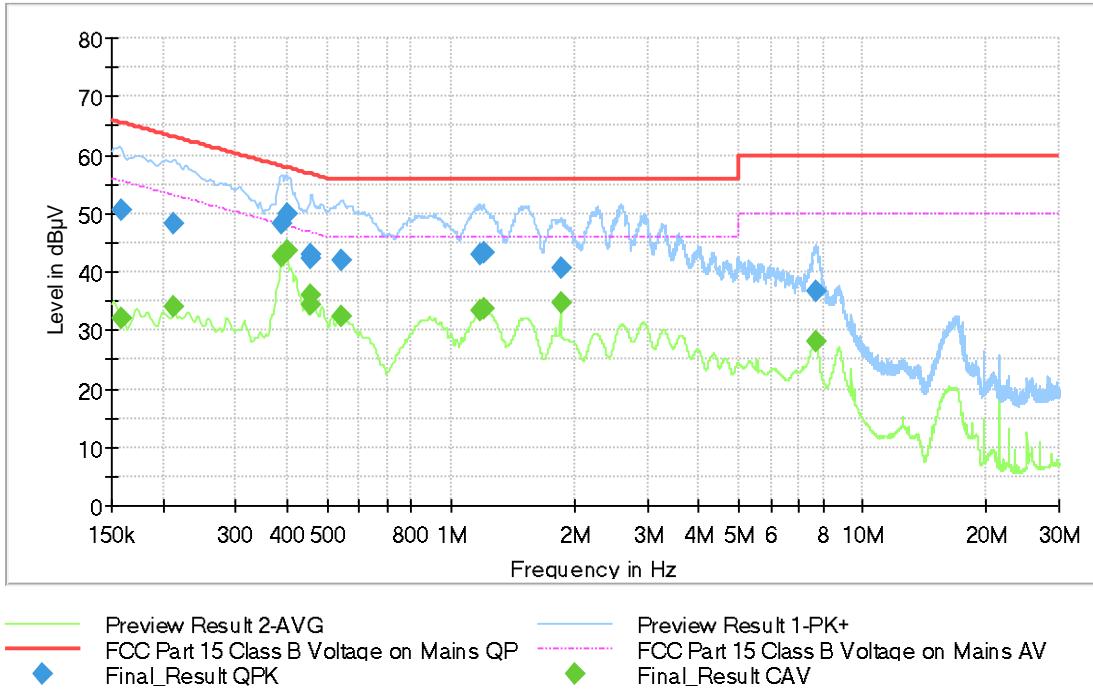
LIMITS:	Standard	FCC Rules & Regulations 47 CFR Chapter I - Part 15 Subpart B Clause 15.207 & RSS-210
	Basic standard	ANSI C63.4

### Limits

47 CFR Chapter I - Part 15 Subpart C Clause 15.207(a) ICES-003 Issue 7 Clause 3.2.1 / Class A				
Frequency range [MHz]	Limit: QP [dB( $\mu$ V) <sup>1)</sup> ]	Limit: AV [dB( $\mu$ V) <sup>1)</sup> ]	IF BW	Detector(s)
0.15 - 0.50	66 to 56*	56 to 46*	9 KHz	QP, CAV
0.50 - 5	56	46	9 KHz	QP, CAV
5 - 30	60	50	9 KHz	QP, CAV

<sup>1)</sup> At the transition frequency, the lower limit applies.  
<sup>2)</sup> \* The limit decreases linearly with the logarithm of the frequency.

<b>TESTED SAMPLES:</b>	S/01
<b>TESTED CONDITIONS MODES:</b>	TC#01
<b>TEST RESULTS:</b>	PASS



### Final Result

Frequency (MHz)	QuasiPeak (dBµV)	CAverage (dBµV)	Limit (dBµV)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Line	PE	Corr. (dB)
0.159	---	32.14	55.52	23.38	1000	9.000	L1	GND	10
0.159	50.56	---	65.52	14.96	1000	9.000	L1	GND	10
0.213	---	33.99	53.09	19.10	1000	9.000	L1	GND	10
0.213	48.32	---	63.09	14.77	1000	9.000	L1	GND	10
0.389	---	42.56	48.10	5.53	1000	9.000	L1	GND	10
0.389	48.27	---	58.10	9.83	1000	9.000	L1	GND	10
0.400	---	43.60	47.86	4.26	1000	9.000	N	GND	10
0.400	49.92	---	57.86	7.94	1000	9.000	N	GND	10
0.456	---	36.00	46.77	10.76	1000	9.000	N	GND	10
0.456	42.95	---	56.77	13.82	1000	9.000	N	GND	10
0.458	---	34.40	46.72	12.32	1000	9.000	N	GND	10
0.458	42.41	---	56.72	14.32	1000	9.000	N	GND	10
0.542	---	32.50	46.00	13.50	1000	9.000	N	GND	10
0.542	42.10	---	56.00	13.90	1000	9.000	N	GND	10
1.181	---	33.29	46.00	12.71	1000	9.000	N	GND	10
1.181	42.87	---	56.00	13.13	1000	9.000	N	GND	10
1.203	---	33.61	46.00	12.39	1000	9.000	N	GND	10
1.203	43.33	---	56.00	12.67	1000	9.000	N	GND	10
1.847	---	34.80	46.00	11.20	1000	9.000	N	GND	10
1.847	40.75	---	56.00	15.25	1000	9.000	N	GND	10
7.717	---	28.21	50.00	21.79	1000	9.000	N	GND	10
7.717	36.65	---	60.00	23.35	1000	9.000	N	GND	10

Note: Display and EKM metering were disconnected during testing.