

TEST REPORT

Product : TRAVEL ADAPTER KIT
Trade mark : LEGAMI
Model/Type reference : TRAK0001
Serial Number : N/A
Report Number : EED32R80753001
FCC ID : 2BGCL-TRAK0001
Date of Issue : Sep. 08, 2025
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

LEGAMI S.p.A Società Benefit
Via Stezzano 18 Azzano San Paolo 24052 (BG) - ITALY

Prepared by:

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Date:

Sep. 08, 2025



Check No.: 6419160525

1 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203	ANSI C63.10:2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	ANSI C63.10:2013	PASS
Radiated Emissions	47 CFR Part 15 Subpart C Section 15.209	ANSI C63.10:2013	PASS

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3 General Information

3.1 Client Information

Applicant:	LEGAMI S.p.A Società Benefit
Address of Applicant:	Via Stezzano 18 Azzano San Paolo 24052 (BG) - ITALY
Manufacturer:	LEGAMI S.p.A Società Benefit
Address of Manufacturer:	Via Stezzano 18 Azzano San Paolo 24052 (BG) - ITALY

3.2 General Description of EUT

Product Name:	TRAVEL ADAPTER KIT
Model No.:	TRAK0001
Trade Mark:	LEGAMI
Device type:	Desktop applications device
Frequency Range:	330kHz
Center Frequency:	330kHz
Modulation Type:	ASK
Antenna Type:	Coil antenna
Power Supply:	TYPE-C: DC 5V, 3A Wireless output: 2.5W
Test Power Grade:	Default
Test Software of EUT:	N/A
Sample Received Date:	May 16, 2025
Sample tested Date:	May 20, 2025 to May 31, 2025

3.3 Test Environment and Mode

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Conducted Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Test mode:Transmitting mode	
Mode a:	Wireless charging mode(Null load)(Connect to adapter)
Mode b:	Wireless charging mode(Full load)(Connect to adapter)
Note:	
1.Wireless output:2.5W;	
2.Through Pre-scan,when EUT power by DC 5.0V was the worst case, only the worst case data was recorded in the report.	

3.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certificati on	Supplied by
Adapter	HW	HW-090200CH01	/	CTI
Watch	iPhone	WR-50	/	LEGAMI S.p.A Società Benefit

3.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Hongwei Industrial Park, Zone 70, Bao'an District, Shenzhen, Guangdong, China

Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164, Test Firm Registration No.: 260439

3.6 Deviation from Standards

None.

3.7 Abnormalities from Standard Conditions

None.

3.8 Other Information Requested by the Customer

None.

3.9 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-18GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
4	Conduction emission	4.5dB (1GHz-12.75GHz)
		3.5dB (9kHz to 150kHz)
5	Temperature test	3.1dB (150kHz to 30MHz)
		0.64°C
6	Humidity test	3.8%
		0.026%
7	DC power voltages	

Equipment List

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-08-2025	04-07-2026
Temperature/ Humidity Indicator	Defu	TH128	/	03-31-2025	03-30-2026
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025
Barometer	changchun	DYM3	1188	---	---
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024	06-17-2025
ISN	TESEQ	ISN T800	30297	12-05-2024	12-04-2025

3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	01/13/2024	01/12/2027
Receiver	R&S	ESCI7	100938-003	09/07/2024	09/06/2025
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022 05/14/2025	05/21/2025 05/13/2026
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/07/2025	04/06/2026
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024	12/04/2025
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/07/2025	04/06/2026
Preamplifier	Agilent	11909A	12-1	03/03/2025	03/02/2026
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
Cable line	Fulai(7M)	SF106	5219/6A	01/13/2024	01/12/2027
Cable line	Fulai(6M)	SF106	5220/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5216/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5217/6A	01/13/2024	01/12/2027

4 Test results and Measurement Data

4.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C 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.	
EUT Antenna:	Please see Internal photos
The antenna is Coil antenna and no consideration of replacement.	

4.2 Conducted Emissions

Test Requirement: 47 CFR Part 15C Section 15.207

Test Method: ANSI C63.10: 2013

Test Frequency Range: 150kHz to 30MHz

Limit:

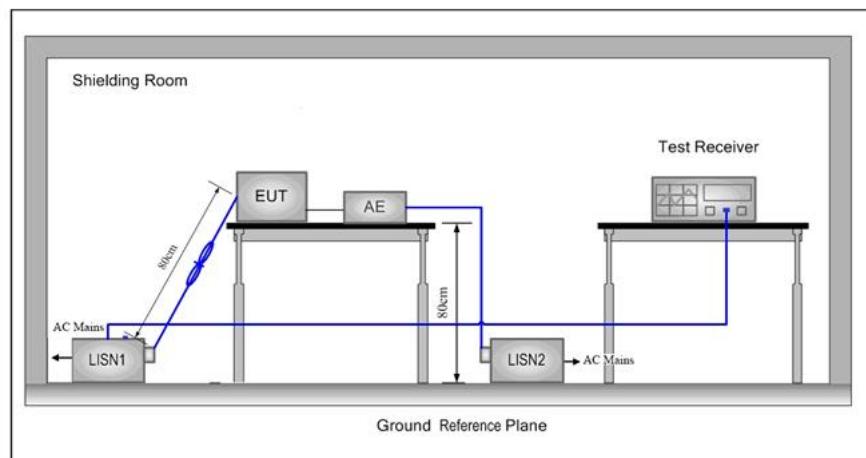
Frequency range (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) 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: 2013 on conducted measurement.

Test Procedure:

Test Setup:



Test Mode:

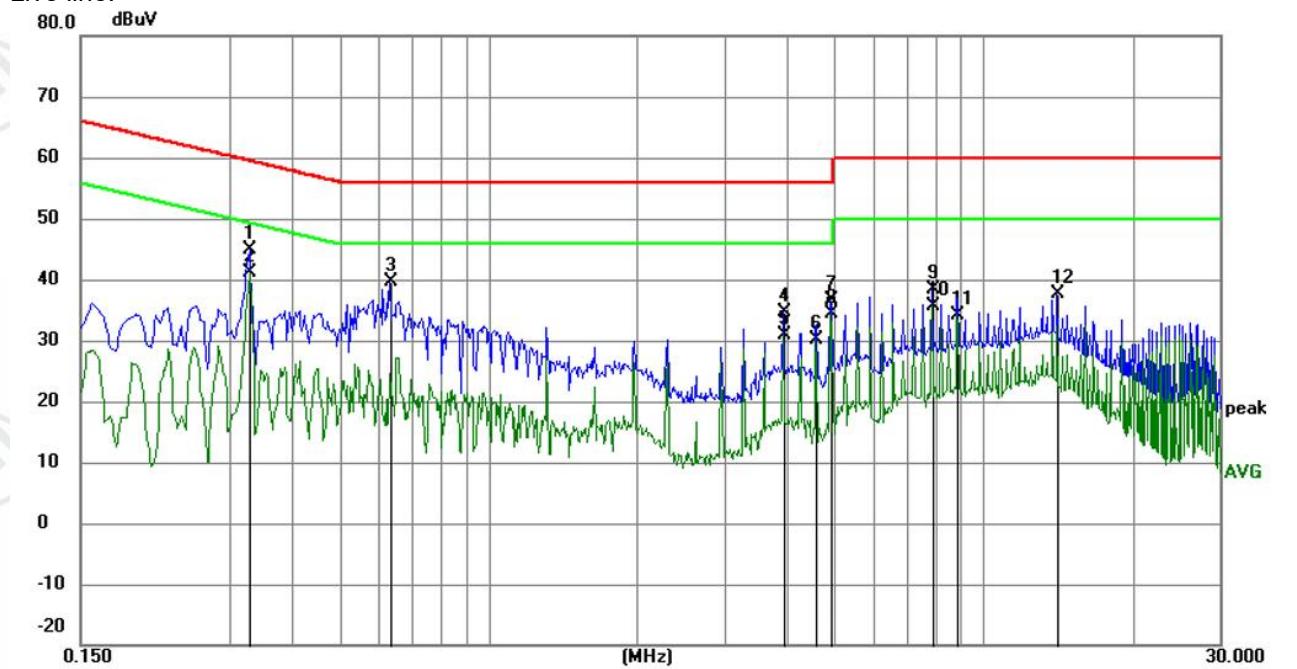
Transmitting mode, refer to section 4.3

Test Results:

Pass

Measurement Data (Mode b):

Live line:

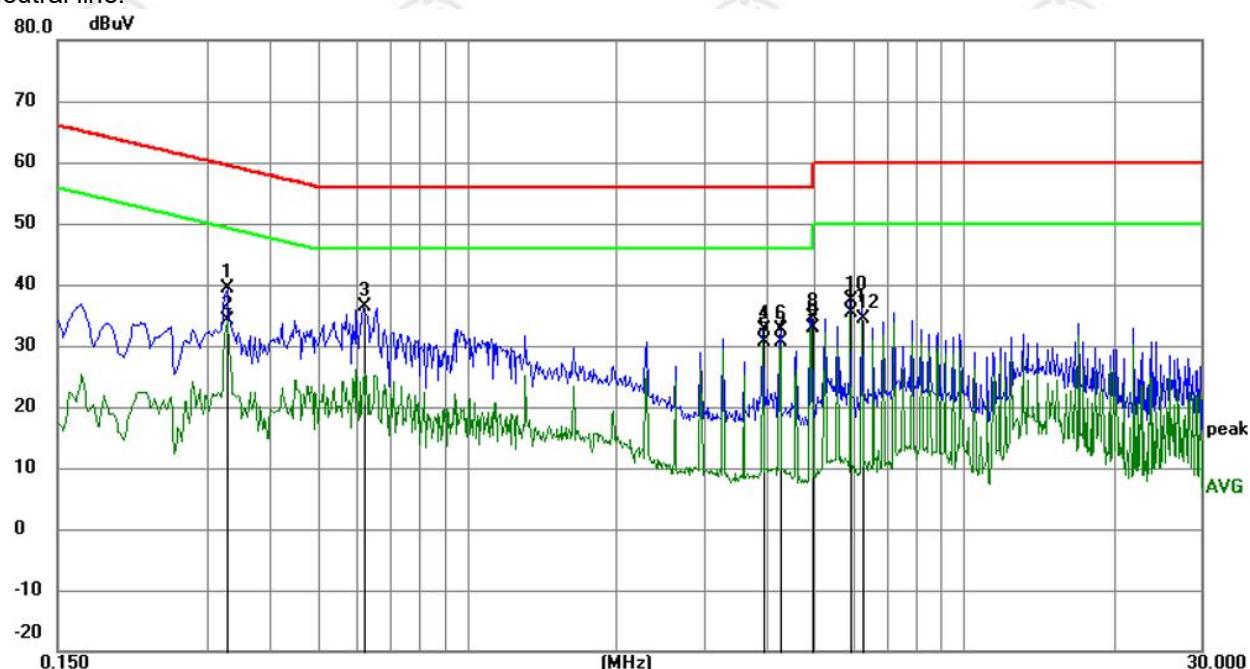


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dBuV	dB		
1		0.3300	34.72	10.12	44.84	59.45	-14.61	QP	
2	*	0.3300	31.08	10.12	41.20	49.45	-8.25	AVG	
3		0.6315	29.57	10.11	39.68	56.00	-16.32	QP	
4		3.9435	24.62	10.10	34.72	56.00	-21.28	QP	
5		3.9435	20.88	10.10	30.98	46.00	-15.02	AVG	
6		4.5960	20.10	10.07	30.17	46.00	-15.83	AVG	
7		4.9245	26.57	10.06	36.63	56.00	-19.37	QP	
8		4.9245	24.30	10.06	34.36	46.00	-11.64	AVG	
9		7.8810	28.45	10.01	38.46	60.00	-21.54	QP	
10		7.8810	25.54	10.01	35.55	50.00	-14.45	AVG	
11		8.8665	24.04	9.98	34.02	50.00	-15.98	AVG	
12		14.1225	27.74	9.88	37.62	60.00	-22.38	QP	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Detector	Comment
			Level	Factor	ment				
		MHz	dBuV	dB	dBuV	dB			
1		0.3300	29.16	10.12	39.28	59.45	-20.17	QP	
2		0.3300	24.08	10.12	34.20	49.45	-15.25	AVG	
3		0.6180	26.26	10.11	36.37	56.00	-19.63	QP	
4		3.9435	22.59	10.10	32.69	56.00	-23.31	QP	
5		3.9435	20.52	10.10	30.62	46.00	-15.38	AVG	
6		4.2720	22.64	10.09	32.73	56.00	-23.27	QP	
7		4.2720	20.61	10.09	30.70	46.00	-15.30	AVG	
8		4.9290	24.60	10.06	34.66	56.00	-21.34	QP	
9 *		4.9290	22.87	10.06	32.93	46.00	-13.07	AVG	
10		5.9145	27.31	10.05	37.36	60.00	-22.64	QP	
11		5.9145	25.25	10.05	35.30	50.00	-14.70	AVG	
12		6.2430	24.42	10.04	34.46	50.00	-15.54	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

4.3 Radiated Emissions

Test Requirement: 47 CFR Part 15C Section 15.231(b) and 15.209

Test Method: ANSI C63.10 2013

Test Site: Measurement Distance: 3m (Semi-Anechoic Chamber)

Receiver Setup:

	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak

Test Setup:

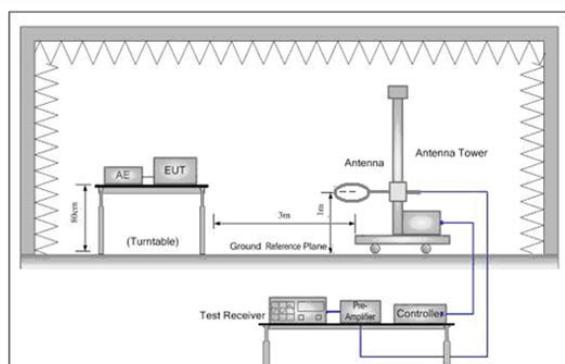


Figure . Below 30MHz

Test Procedure:

Below 1GHz test procedure as below:

- The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rota table table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Limit:
(Spurious
Emissions)

Frequency	Field strength (microvolt/meter)	Limit (dB μ V/m)	Remark	Measurement distance (m)
0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
1.705MHz-30MHz	30	-	-	30

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

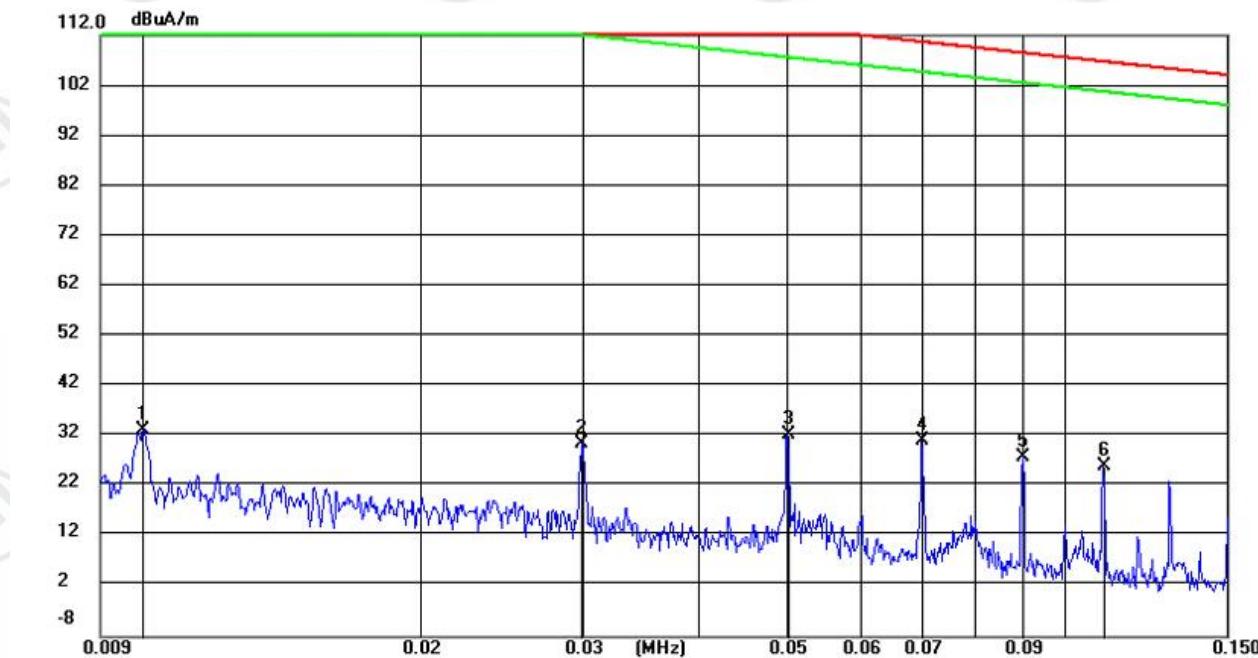
Test Mode:

Transmitting mode, refer to section 4.3

Test Results:

Pass

9kHz~150kHz:

Measurement Data (Mode b):


No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table	
			Level	Factor	ment					
		MHz	dBuV	dB	dBuA/m	dB	Detector	cm	degree	Comment
1		0.0100	33.21	0.03	33.24	127.49	-94.25	peak	100	347
2		0.0299	30.54	0.15	30.69	118.01	-87.32	peak	100	143
3		0.0501	32.08	0.18	32.26	113.54	-81.28	peak	100	359
4	*	0.0700	30.92	0.19	31.11	110.65	-79.54	peak	100	360
5		0.0901	27.50	0.24	27.74	108.46	-80.72	peak	100	7
6		0.1101	25.86	0.30	26.16	106.72	-80.56	peak	100	7

Remark:

1. According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

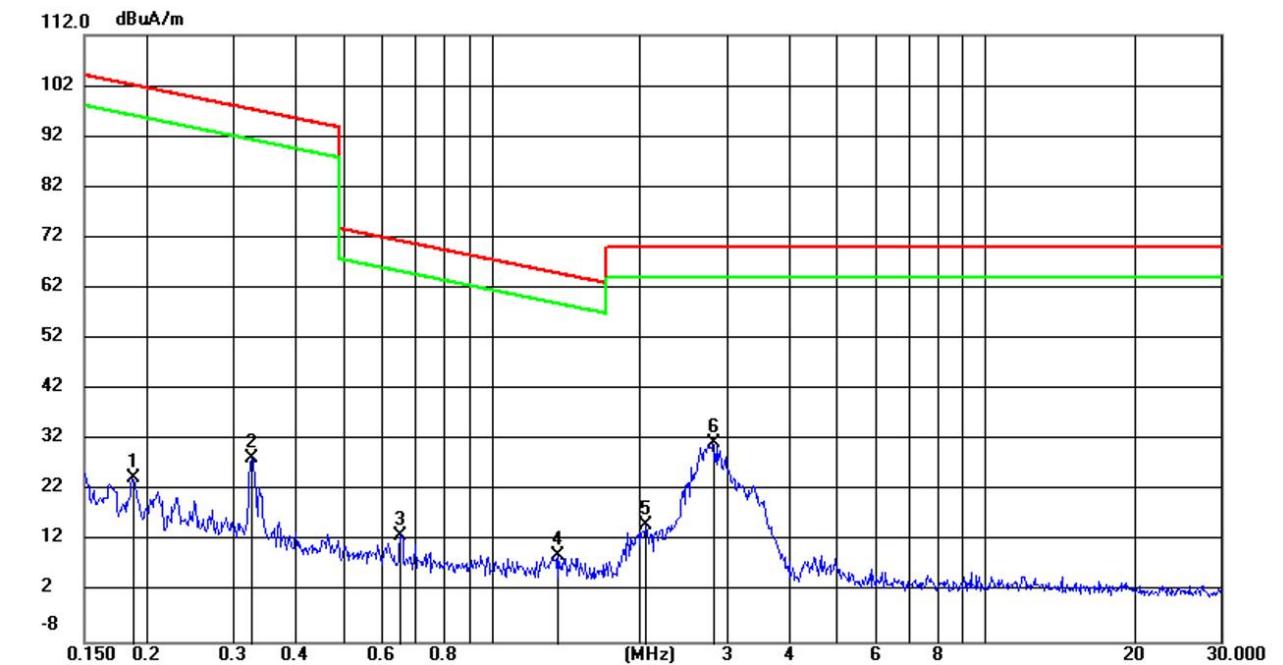
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

3. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning of horizontal which it is the worst case.

150kHz~30MHz:

Measurement Data (Mode b):



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB	dBuA/m	dBuA/m	dB	Detector	cm	degree
1		0.1874	24.28	0.41	24.69	102.12	-77.43	peak	100	280
2		0.3268	28.16	0.38	28.54	97.31	-68.77	peak	100	29
3		0.6543	13.00	0.10	13.10	71.30	-58.20	peak	100	352
4		1.3665	9.09	0.07	9.16	64.92	-55.76	peak	100	137
5		2.0549	15.12	0.06	15.18	70.00	-54.82	peak	100	101
6	*	2.8091	31.29	0.05	31.34	70.00	-38.66	peak	100	194

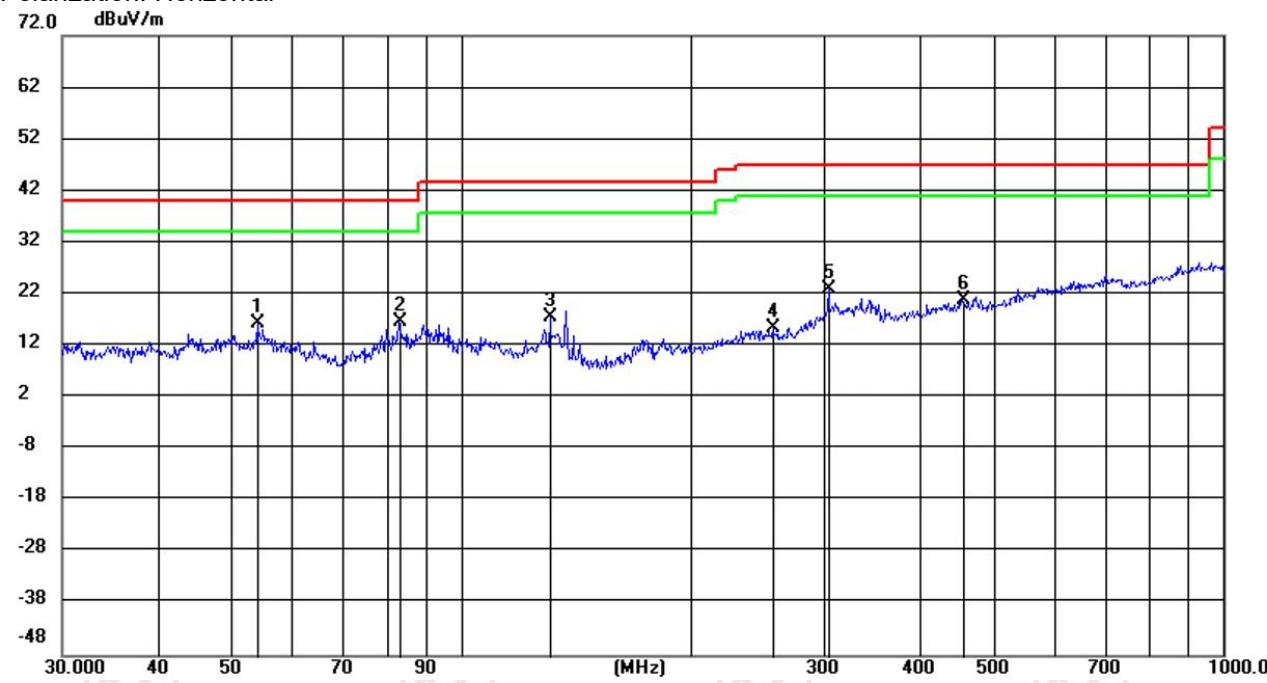
Remark:

1. According ANSI C63.10-2013 chapter 6.4.6, We tested the parallel, perpendicular, and ground-parallel of loop antenna, and was recorded the worst parallel data of loop antenna in the report.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading - Correct Factor
Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor
3. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning of horizontal which it is the worst case.

30MHz-1GHz:

Measurement Data (Mode b):

Polarization: Horizontal



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table		
			Level	Factor	ment				Height	Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	
1		54.2134	2.22	14.04	16.26	40.00	-23.74	QP	100	352	
2	*	83.0840	6.45	10.14	16.59	40.00	-23.41	QP	200	342	
3		131.2504	6.58	10.86	17.44	43.50	-26.06	QP	100	359	
4		256.9261	0.62	14.94	15.56	47.00	-31.44	QP	100	230	
5		304.1830	6.19	16.70	22.89	47.00	-24.11	QP	100	77	
6		455.4265	0.68	20.27	20.95	47.00	-26.05	QP	100	138	

Remark:

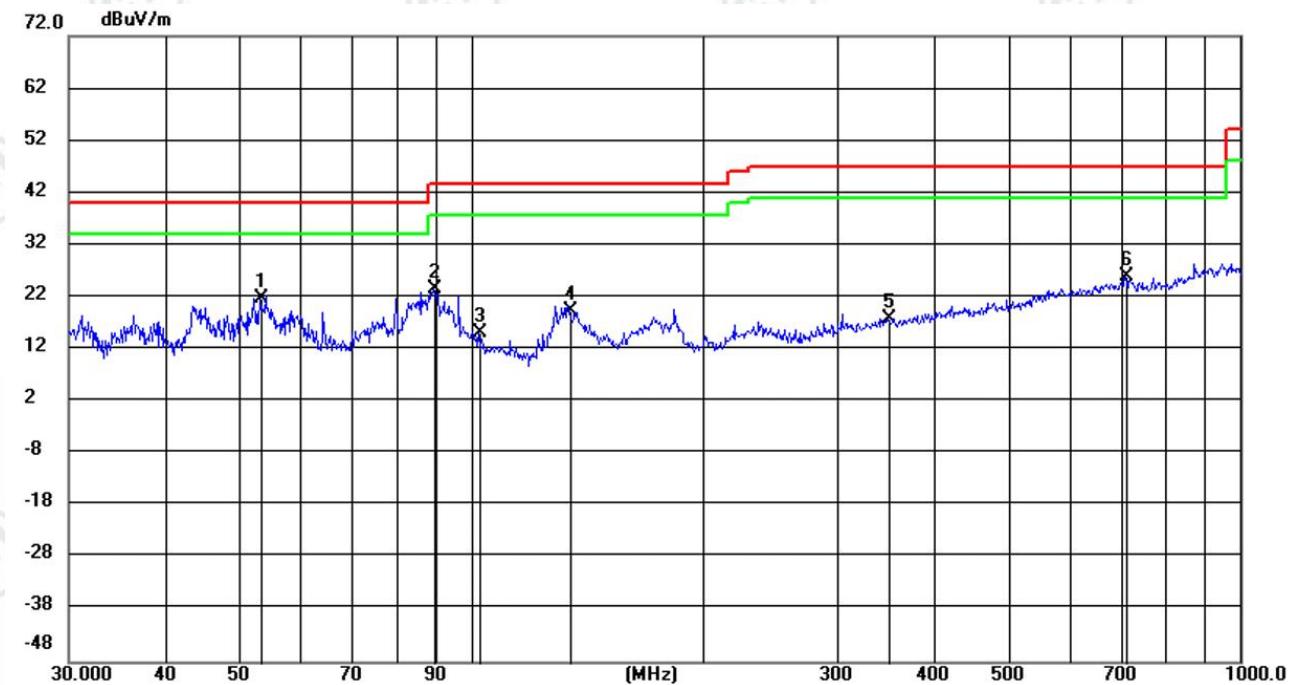
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode b):

Polarization: Vertical



No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Margin	Antenna	Table		
			Level	Factor	ment						
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1	*	53.2059	7.70	14.18	21.88	40.00	-18.12	QP	100	279	
2		89.3232	12.18	11.34	23.52	43.50	-19.98	QP	100	341	
3		102.5932	1.82	13.47	15.29	43.50	-28.21	QP	100	310	
4		134.3706	8.57	10.72	19.29	43.50	-24.21	QP	100	26	
5		348.5771	-0.21	18.04	17.83	47.00	-29.17	QP	100	352	
6		709.6798	1.52	24.30	25.82	47.00	-21.18	QP	100	352	

Remark:

1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Statement

1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. The result(s) shown in this report refer(s) only to the sample(s) tested;
4. Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule stated in ILAC-G8:09/2019/CNAS-GL015:2022;
5. Without written approval of CTI, this report can't be reproduced except in full;

*** End of Report ***