

TEST REPORT

Product : Universal Power Bank
Trade mark : N/A
Model/Type reference : A01
Serial Number : N/A
Report Number : EED32Q80738001
FCC ID : 2BK7FFADIAN2024
Date of Issue : Oct. 30, 2024
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

Chaoxuan technology (ShenZhen) Co., Ltd.
1222-2, Block B, Tianxia Jinniu Plaza, No.8 Taoyuan Road,
Dawangshan Community, NanTou Street, Shenzhen, China

Prepared by:

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Date:

Oct. 30, 2024



Check No.: 7256300524

1 Version

Version No.	Date	Description
00	Oct. 30, 2024	Original

2 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

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.

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4 General Information

4.1 Client Information

Applicant:	Chaoxuan technology (ShenZhen) Co., Ltd.
Address of Applicant:	1222-2, Block B, Tianxia Jinniu Plaza, No.8 Taoyuan Road, Dawangshan Community, NanTou Street, Shenzhen, China
Manufacturer:	Chaoxuan technology (ShenZhen) Co., Ltd.
Address of Manufacturer:	1222-2, Block B, Tianxia Jinniu Plaza, No.8 Taoyuan Road, Dawangshan Community, NanTou Street, Shenzhen, China
Factory:	Shenzhen Weiduli Technology Co., Ltd.
Address of Factory:	Room 601, building 4, Dejin Industrial Zone, No, 40, Fuyuan ist Road, Zhancheng community, Fuhaiastreet, Bao'an District, Shenzhen, Guangdong, P,R, China

4.2 General Description of EUT

Product Name:	Universal Power Bank
Model No.:	A01
Trade Mark:	N/A
Device type:	Desktop applications device
Frequency Range:	Output1: 111kHz-140kHz Output2: 111kHz-140kHz
Center Frequency:	148kHz
Modulation Type:	ASK
Antenna Type:	Coil antenna
Power Supply:	AC INPUT: 110V-230V 50/60Hz 0.5A(Max) OUT/TYPE-C1: V-3A/9V-2.22A/12V=1.67A(Max) USB OUTPUT: 5V-2.4A(Max) TYPE-C OUTPUT: 5V-3A/9V-2.22A/12V=1.67A(Max) TYPE-C INTPUT: 5V-3A/9V-2A/12V-1.5A(Max) TYPE-C Built-in wire output :5V-3A/9V-2A/10V-2.25A/12V=1.5A(Max) Lighining Built-in wire output: 5V-3A/9V-2.22A/12V-1.67A(Max) Wireless output: 5W/7.5W/10W/15W iWaich Wireless output: 2.5W
Test Power Grade:	Default
Test Software of EUT:	RF test
Sample Received Date:	Jul. 15, 2024
Sample tested Date:	Jul. 15, 2024 to Sep. 24, 2024

4.3 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(Half load)(Connect to adapter)
Mode c:	Wireless charging mode(75% load)(Connect to adapter)
Mode d:	Wireless charging mode(Full load)(Connect to adapter)
Mode e:	iWaich Wireles charging mode(Full load)(Connect to adapter)
Note: 1.Wireless output:2.5W,5W,7.5W,10W,15W(maximum wireless output 15W during charging); 2.Through Pre-scan,when EUT power by DC 12.0V was the worst case, only the worst case data was recorded in the report.	

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Intelligent wireless charging full function test module	YBZ	/	FCC ID and DOC	CTI

4.5 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

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

No tests were sub-contracted.

FCC Designation No.: CN1164

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Conditions

None.

4.8 Other Information Requested by the Customer

None.

4.9 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)
		4.5dB (1GHz-12.75GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

5 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	04-18-2024	04-17-2025
Temperature/ Humidity Indicator	Defu	TH128	/	04-25-2024	04-24-2025
LISN	R&S	ENV216	100098	09-22-2023 09-19-2024	09-21-2024 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	12-14-2023	12-13-2024

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	---	05/22/2022	05/21/2025
Receiver	R&S	ESCI7	100938-003	09/22/2023 09/07/2024	09/21/2024 09/06/2025
Spectrum Analyzer	R&S	FSV40	101200	07/25/2023 07/18/2024	07/24/2024 07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022	05/21/2025
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/16/2024	04/15/2025
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/14/2023	12/13/2024
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/16/2024	04/15/2025
Preamplifier	Agilent	11909A	12-1	03/22/2024	03/21/2025
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	---	---
Cable line	Fulai(6M)	SF106	5220/6A	---	---
Cable line	Fulai(3M)	SF106	5216/6A	---	---
Cable line	Fulai(3M)	SF106	5217/6A	---	---

错误!未找到引用源。

6 Test results and Measurement Data

6.1 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 attached on the main PCB and no consideration of replacement.	

6.2 Conducted Emissions

Test Requirement: 47 CFR Part 15C Section 15.207
Test Method: ANSI C63.10: 2013
Test Frequency Range: 150kHz to 30MHz

Limit:

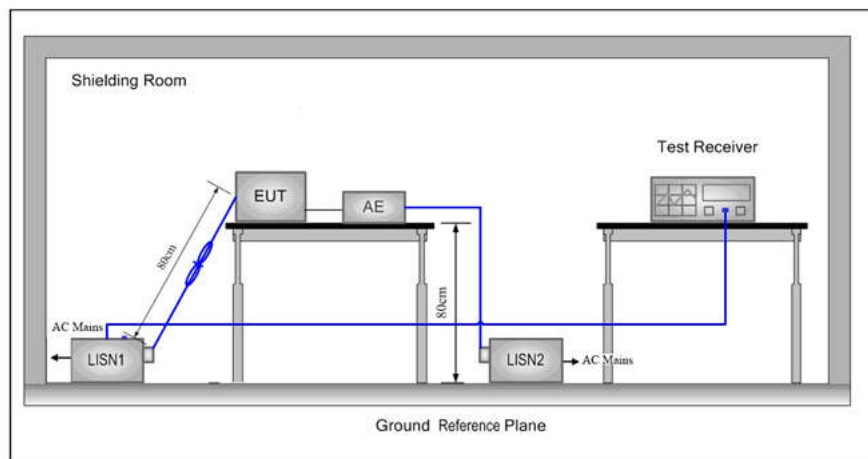
Frequency range (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

Test Procedure:

- 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 Setup:

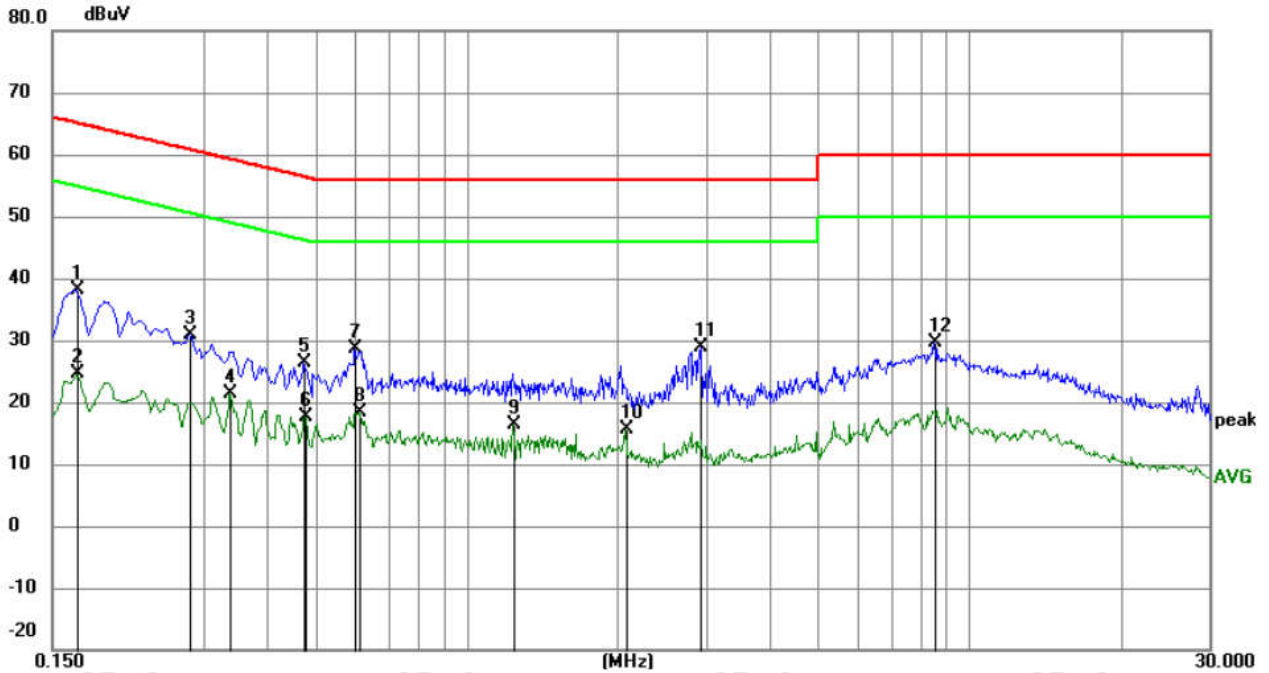


Test Mode: Transmitting mode, refer to section 4.3

Test Results: Pass

Measurement Data (Mode a):

Live line:

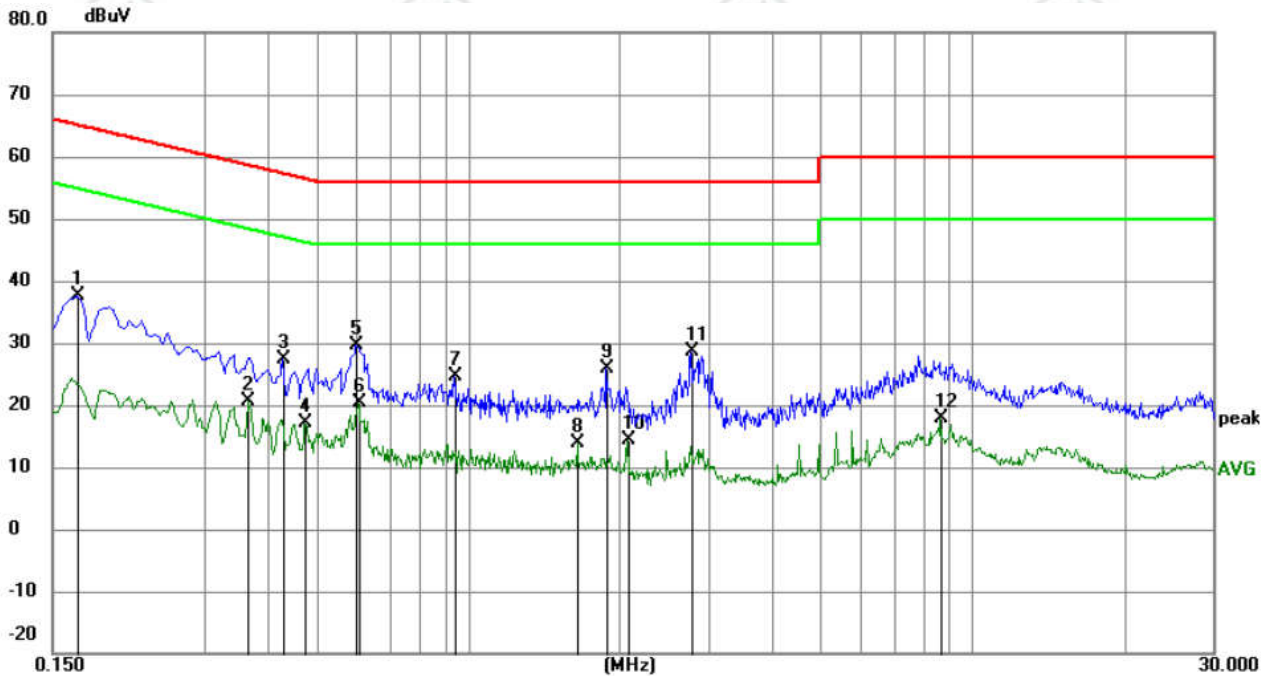


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1680	28.36	9.85	38.21	65.06	-26.85	QP	
2		0.1680	14.86	9.85	24.71	55.06	-30.35	AVG	
3		0.2805	21.24	9.60	30.84	60.80	-29.96	QP	
4		0.3390	11.65	9.64	21.29	49.23	-27.94	AVG	
5		0.4740	16.67	9.78	26.45	56.44	-29.99	QP	
6		0.4785	7.85	9.78	17.63	46.37	-28.74	AVG	
7		0.6000	19.03	9.59	28.62	56.00	-27.38	QP	
8		0.6134	8.64	9.65	18.29	46.00	-27.71	AVG	
9		1.2390	6.55	9.74	16.29	46.00	-29.71	AVG	
10		2.0670	5.80	9.75	15.55	46.00	-30.45	AVG	
11		2.9175	19.19	9.78	28.97	56.00	-27.03	QP	
12		8.5424	19.80	9.84	29.64	60.00	-30.36	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:



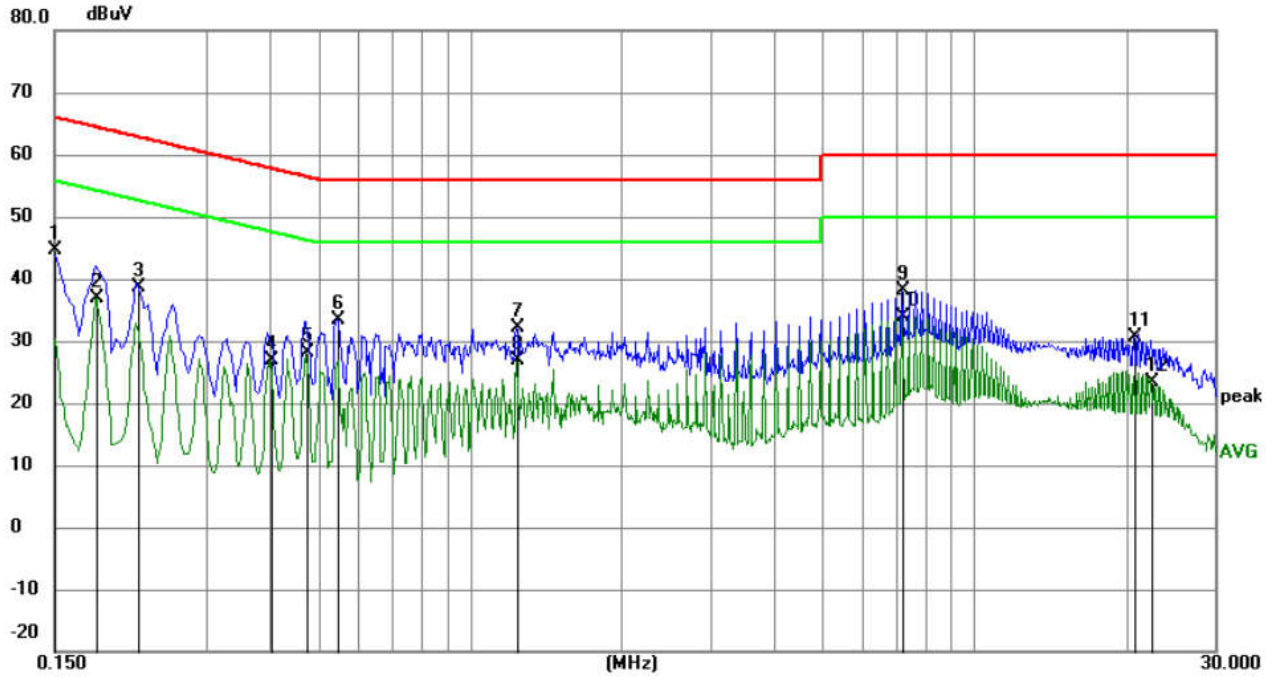
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1680	27.69	9.85	37.54	65.06	-27.52	QP	
2		0.3660	10.81	9.70	20.51	48.59	-28.08	AVG	
3		0.4290	17.52	9.79	27.31	57.27	-29.96	QP	
4		0.4740	7.44	9.78	17.22	46.44	-29.22	AVG	
5		0.6000	20.11	9.59	29.70	56.00	-26.30	QP	
6	*	0.6045	10.80	9.61	20.41	46.00	-25.59	AVG	
7		0.9420	14.83	9.78	24.61	56.00	-31.39	QP	
8		1.6530	4.24	9.75	13.99	46.00	-32.01	AVG	
9		1.8870	16.02	9.75	25.77	56.00	-30.23	QP	
10		2.0670	4.65	9.75	14.40	46.00	-31.60	AVG	
11		2.7780	18.78	9.77	28.55	56.00	-27.45	QP	
12		8.6775	7.95	9.84	17.79	50.00	-32.21	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.

Measurement Data (Mode b):

Live line:

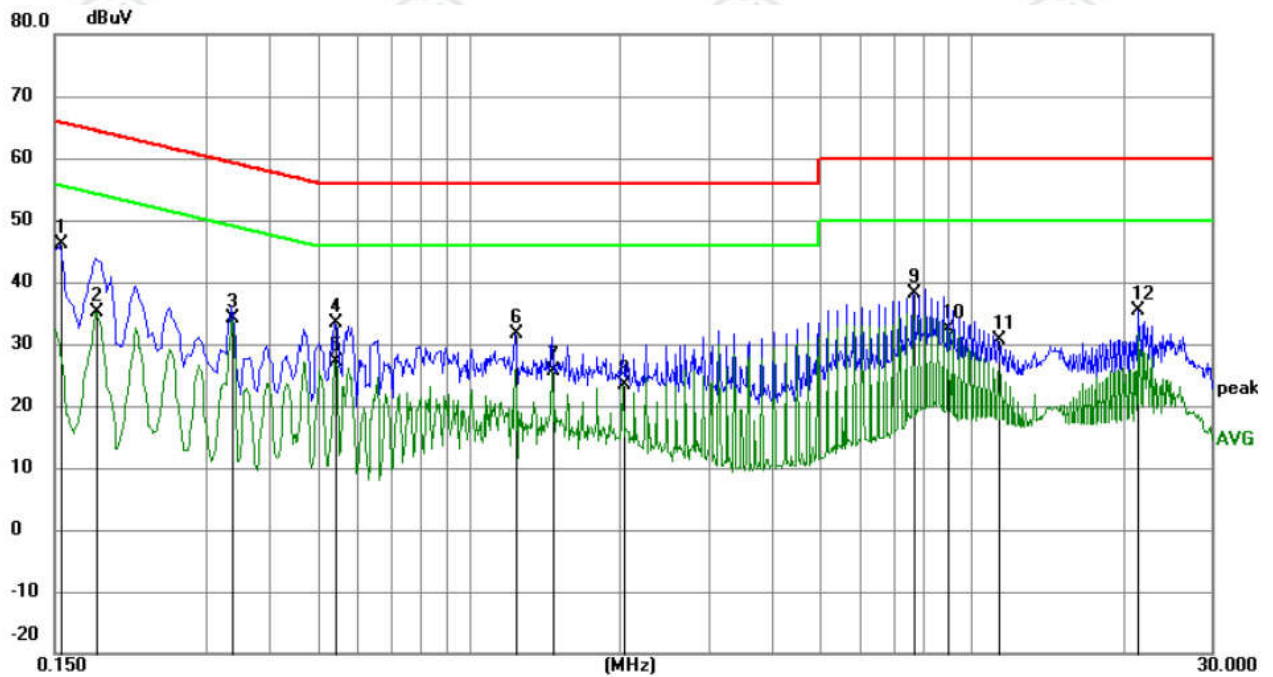


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	34.69	9.84	44.53	66.00	-21.47	QP	
2		0.1815	27.02	9.86	36.88	54.42	-17.54	AVG	
3		0.2197	28.86	9.80	38.66	62.83	-24.17	QP	
4		0.4020	17.04	9.79	26.83	47.81	-20.98	AVG	
5		0.4740	18.44	9.78	28.22	46.44	-18.22	AVG	
6		0.5460	23.73	9.69	33.42	56.00	-22.58	QP	
7		1.2390	22.46	9.74	32.20	56.00	-23.80	QP	
8		1.2390	17.10	9.74	26.84	46.00	-19.16	AVG	
9		7.2105	28.30	9.85	38.15	60.00	-21.85	QP	
10	*	7.2105	24.11	9.85	33.96	50.00	-16.04	AVG	
11		20.7285	20.71	10.02	30.73	60.00	-29.27	QP	
12		22.5330	13.43	9.98	23.41	50.00	-26.59	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.

Neutral line:



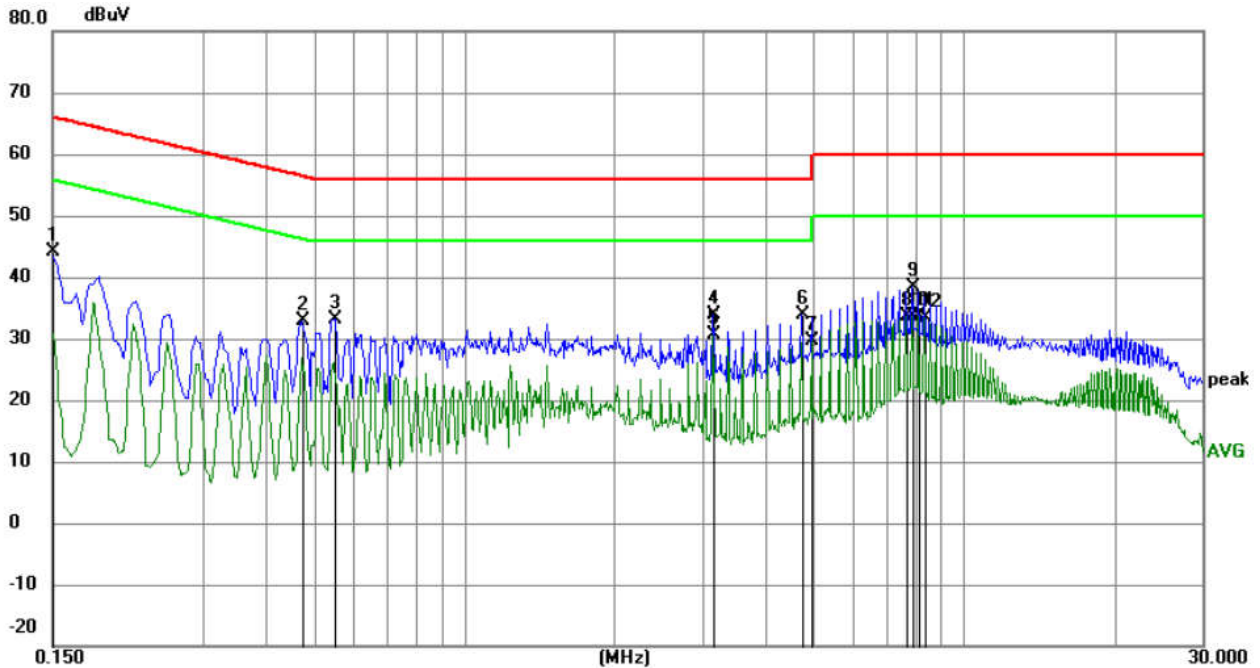
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1545	36.22	9.85	46.07	65.75	-19.68	QP	
2		0.1815	25.37	9.86	35.23	54.42	-19.19	AVG	
3	*	0.3390	24.49	9.64	34.13	49.23	-15.10	AVG	
4		0.5415	23.66	9.70	33.36	56.00	-22.64	QP	
5		0.5415	17.48	9.70	27.18	46.00	-18.82	AVG	
6		1.2390	21.77	9.74	31.51	56.00	-24.49	QP	
7		1.4640	15.79	9.74	25.53	46.00	-20.47	AVG	
8		2.0264	13.57	9.75	23.32	46.00	-22.68	AVG	
9		7.6605	28.20	9.85	38.05	60.00	-21.95	QP	
10		9.0105	22.61	9.84	32.45	50.00	-17.55	AVG	
11		11.2650	20.73	9.84	30.57	60.00	-29.43	QP	
12		21.4035	25.45	10.00	35.45	60.00	-24.55	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.

Measurement Data (Mode c):

Live line:

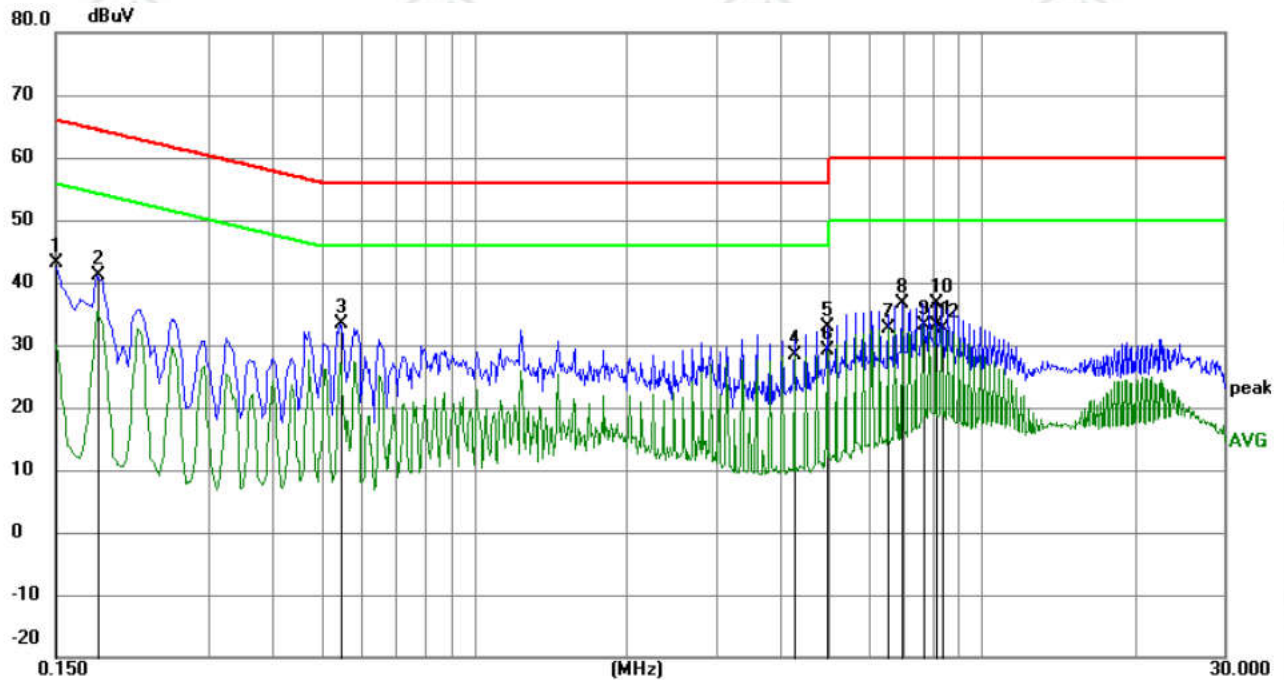


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	34.20	9.84	44.04	66.00	-21.96	QP	
2		0.4740	23.11	9.78	32.89	56.44	-23.55	QP	
3		0.5505	23.47	9.68	33.15	56.00	-22.85	QP	
4		3.1560	24.12	9.78	33.90	56.00	-22.10	QP	
5	*	3.1560	20.80	9.78	30.58	46.00	-15.42	AVG	
6		4.7355	24.03	9.83	33.86	56.00	-22.14	QP	
7		4.9605	19.88	9.84	29.72	46.00	-16.28	AVG	
8		7.6650	23.76	9.85	33.61	50.00	-16.39	AVG	
9		7.8900	28.43	9.84	38.27	60.00	-21.73	QP	
10		7.8900	23.71	9.84	33.55	50.00	-16.45	AVG	
11		8.1150	23.82	9.84	33.66	50.00	-16.34	AVG	
12		8.3400	23.61	9.84	33.45	50.00	-16.55	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.

Neutral line:



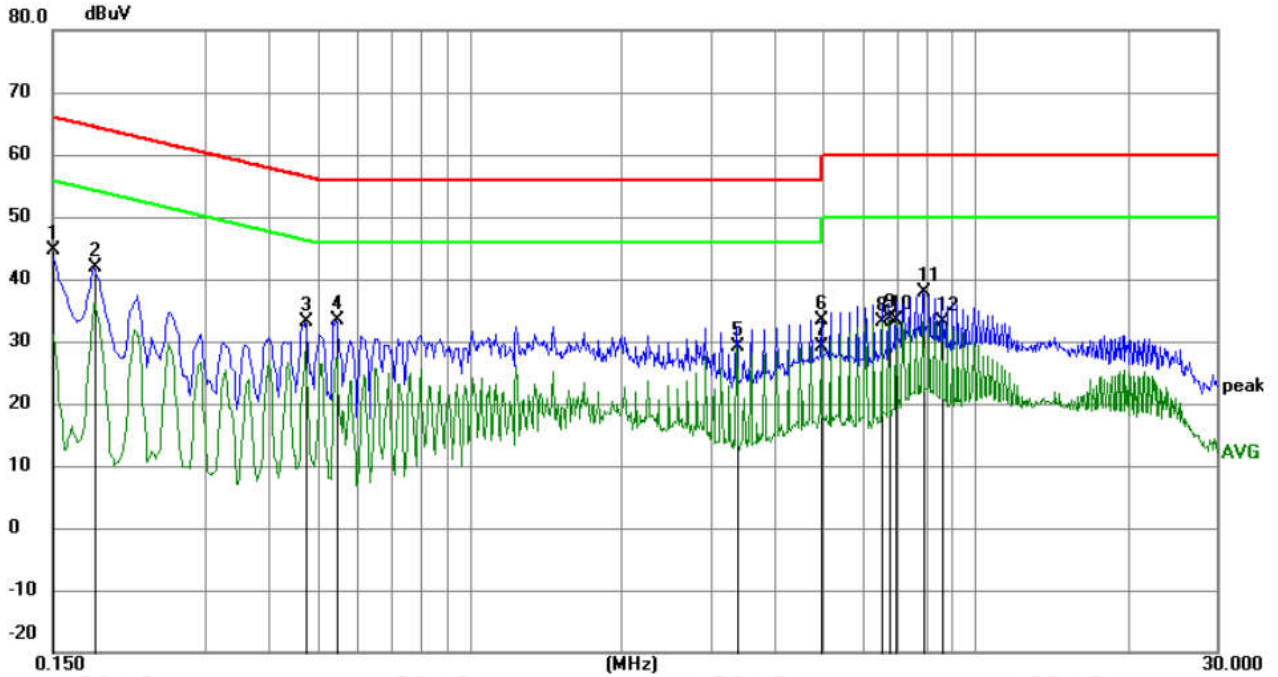
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	33.18	9.84	43.02	66.00	-22.98	QP	
2		0.1815	31.34	9.86	41.20	64.42	-23.22	QP	
3		0.5460	23.81	9.69	33.50	56.00	-22.50	QP	
4		4.2810	18.63	9.82	28.45	46.00	-17.55	AVG	
5		4.9605	23.00	9.84	32.84	56.00	-23.16	QP	
6	*	4.9605	19.33	9.84	29.17	46.00	-16.83	AVG	
7		6.5355	22.67	9.85	32.52	50.00	-17.48	AVG	
8		6.9855	26.89	9.85	36.74	60.00	-23.26	QP	
9		7.6650	23.17	9.85	33.02	50.00	-16.98	AVG	
10		8.1150	26.90	9.84	36.74	60.00	-23.26	QP	
11		8.1150	23.23	9.84	33.07	50.00	-16.93	AVG	
12		8.3400	22.85	9.84	32.69	50.00	-17.31	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.

Measurement Data (Mode d):

Live line:

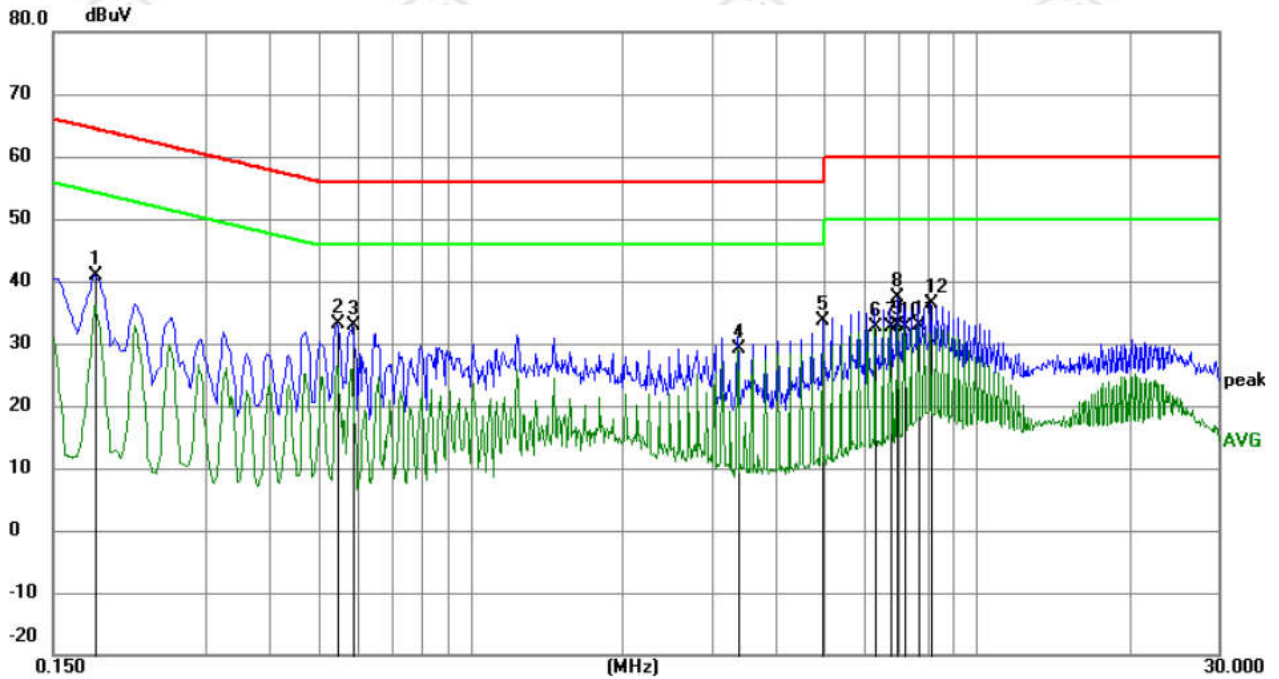


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1500	34.69	9.84	44.53	66.00	-21.47	QP	
2		0.1815	32.12	9.86	41.98	64.42	-22.44	QP	
3		0.4740	23.36	9.78	33.14	56.44	-23.30	QP	
4		0.5460	23.75	9.69	33.44	56.00	-22.56	QP	
5		3.3810	19.43	9.79	29.22	46.00	-16.78	AVG	
6		4.9605	23.58	9.84	33.42	56.00	-22.58	QP	
7		4.9605	19.33	9.84	29.17	46.00	-16.83	AVG	
8		6.5355	23.28	9.85	33.13	50.00	-16.87	AVG	
9	*	6.7605	23.66	9.85	33.51	50.00	-16.49	AVG	
10		6.9855	23.53	9.85	33.38	50.00	-16.62	AVG	
11		7.8900	28.00	9.84	37.84	60.00	-22.16	QP	
12		8.5649	23.35	9.84	33.19	50.00	-16.81	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.

Neutral line:



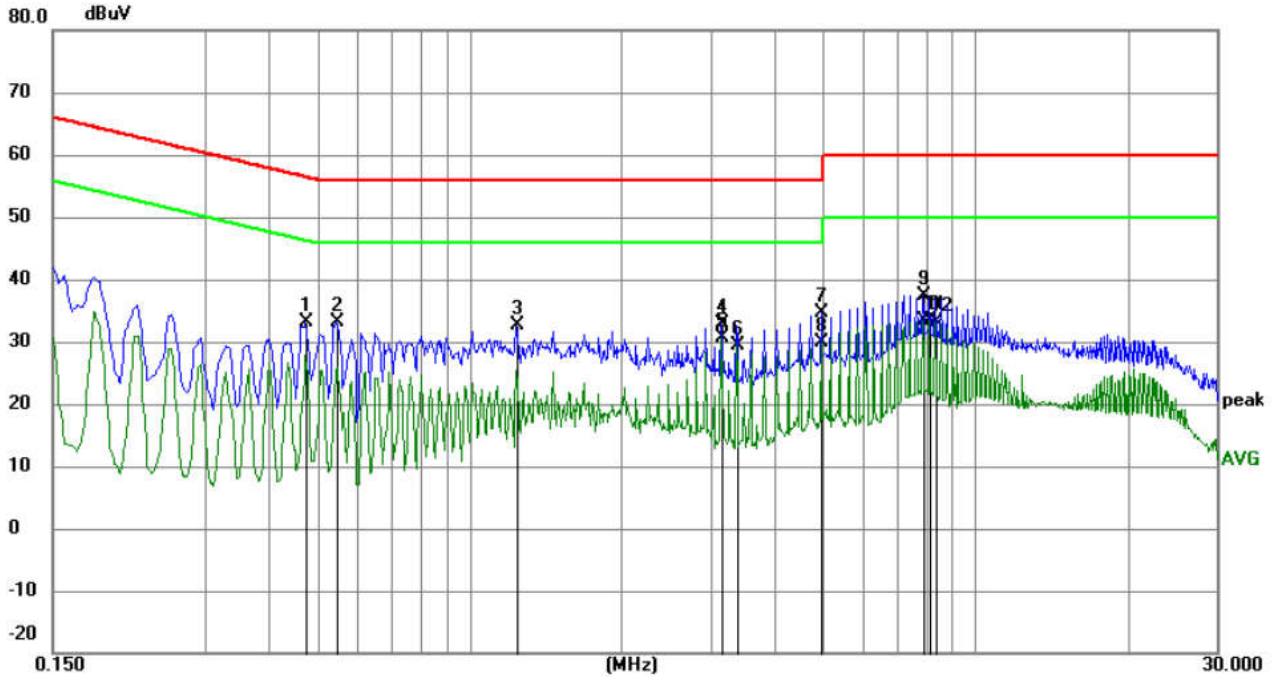
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1815	31.14	9.86	41.00	64.42	-23.42	QP	
2		0.5460	23.51	9.69	33.20	56.00	-22.80	QP	
3		0.5865	23.34	9.62	32.96	56.00	-23.04	QP	
4	*	3.3810	19.41	9.79	29.20	46.00	-16.80	AVG	
5		4.9560	23.86	9.84	33.70	56.00	-22.30	QP	
6		6.3105	22.69	9.85	32.54	50.00	-17.46	AVG	
7		6.7605	22.83	9.85	32.68	50.00	-17.32	AVG	
8		6.9855	27.49	9.85	37.34	60.00	-22.66	QP	
9		6.9855	23.14	9.85	32.99	50.00	-17.01	AVG	
10		7.2105	22.90	9.85	32.75	50.00	-17.25	AVG	
11		7.6650	22.92	9.85	32.77	50.00	-17.23	AVG	
12		8.1150	26.58	9.84	36.42	60.00	-23.58	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.

Measurement Data (Mode e):

Live line:

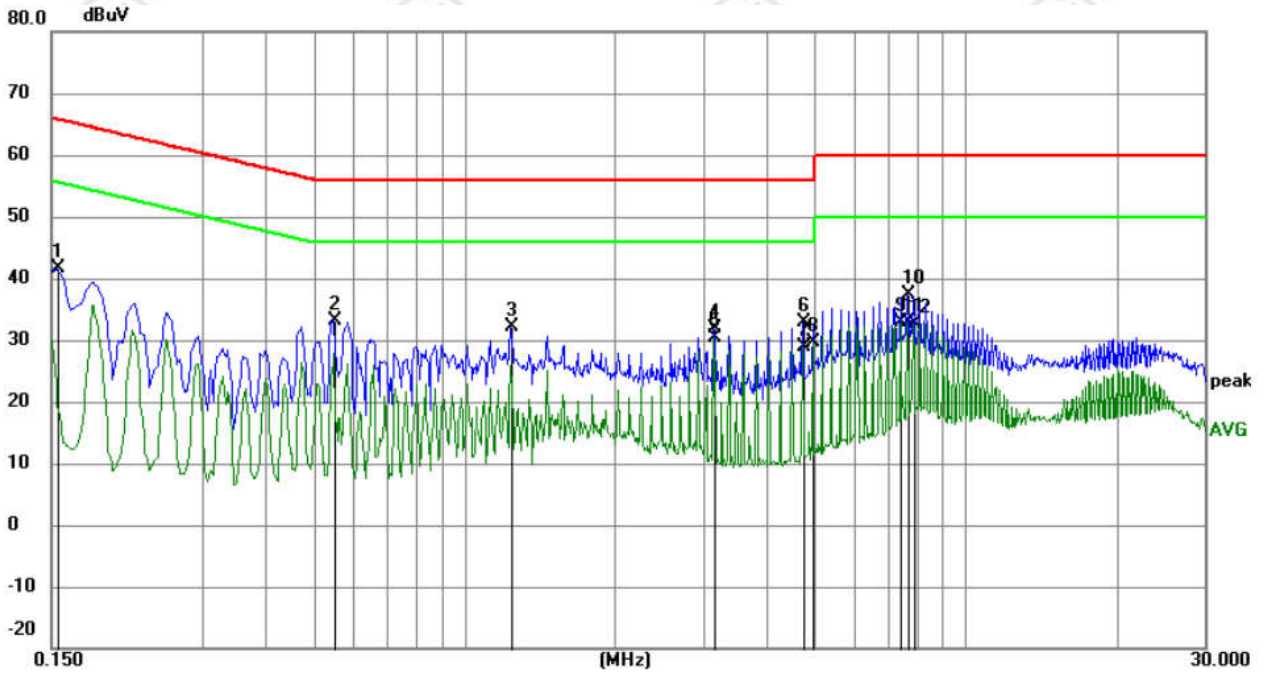


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.4740	23.27	9.78	33.05	56.44	-23.39	QP	
2		0.5460	23.34	9.69	33.03	56.00	-22.97	QP	
3		1.2390	22.91	9.74	32.65	56.00	-23.35	QP	
4		3.1560	23.14	9.78	32.92	56.00	-23.08	QP	
5	*	3.1560	20.75	9.78	30.53	46.00	-15.47	AVG	
6		3.3810	19.55	9.79	29.34	46.00	-16.66	AVG	
7		4.9605	24.68	9.84	34.52	56.00	-21.48	QP	
8		4.9605	19.98	9.84	29.82	46.00	-16.18	AVG	
9		7.8900	27.59	9.84	37.43	60.00	-22.57	QP	
10		7.8900	23.50	9.84	33.34	50.00	-16.66	AVG	
11		8.1150	23.63	9.84	33.47	50.00	-16.53	AVG	
12		8.3400	23.39	9.84	33.23	50.00	-16.77	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.

Neutral line:



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1545	31.66	9.85	41.51	65.75	-24.24	QP	
2	0.5505	23.57	9.68	33.25	56.00	-22.75	QP	
3	1.2390	22.42	9.74	32.16	56.00	-23.84	QP	
4	3.1560	22.09	9.78	31.87	56.00	-24.13	QP	
5 *	3.1560	20.61	9.78	30.39	46.00	-15.61	AVG	
6	4.7355	23.16	9.83	32.99	56.00	-23.01	QP	
7	4.7355	19.09	9.83	28.92	46.00	-17.08	AVG	
8	4.9605	19.67	9.84	29.51	46.00	-16.49	AVG	
9	7.4400	22.95	9.85	32.80	50.00	-17.20	AVG	
10	7.6650	27.43	9.85	37.28	60.00	-22.72	QP	
11	7.6650	23.11	9.85	32.96	50.00	-17.04	AVG	
12	7.8900	22.88	9.84	32.72	50.00	-17.28	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.

6.3 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:

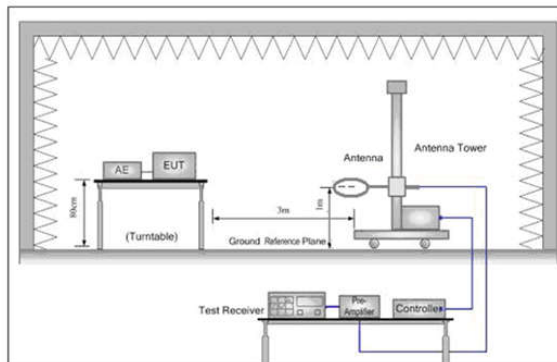


Figure . Below 30MHz

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 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:

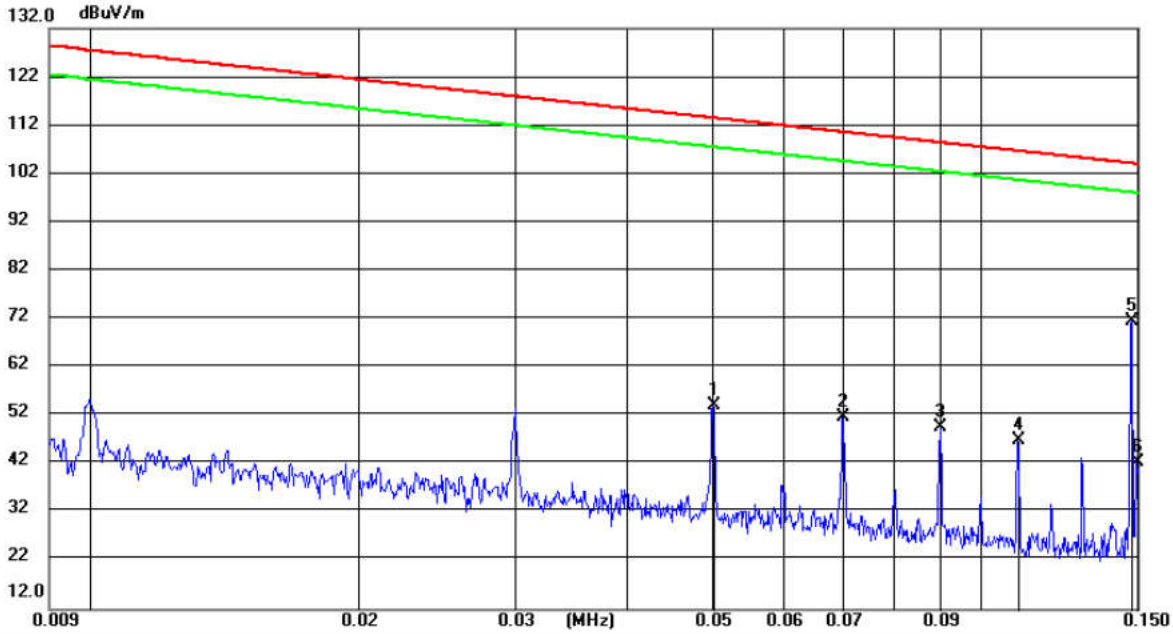
Transmitting mode, refer to section 4.3

Test Results:

Pass

9kHz~150kHz:

Measurement Data (Mode a):

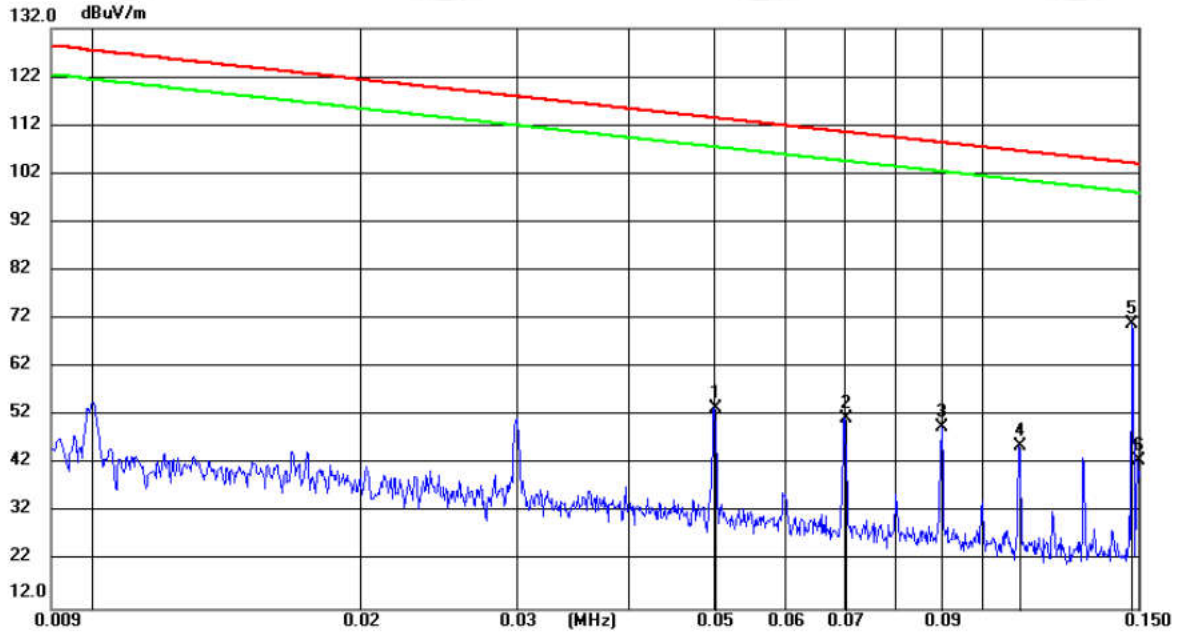


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0501	33.14	20.90	54.04	113.49	-59.45	QP 100	352	
2		0.0700	31.05	20.83	51.88	110.60	-58.72	QP 100	352	
3		0.0901	28.84	20.85	49.69	108.42	-58.73	QP 100	352	
4		0.1101	26.09	20.84	46.93	106.69	-59.76	QP 100	352	
5	*	0.1479	50.64	20.91	71.55	104.14	-32.59	QP 100	226	
6		0.1496	21.55	20.92	42.47	104.04	-61.57	QP 100	65	

Remark:

1. According to ANSI C63.10-2013 chapter 6.4.6, we tested the parallel, perpendicular, and ground-parallel of loop antenna, and 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 is the worst case.

Measurement Data (Mode b):

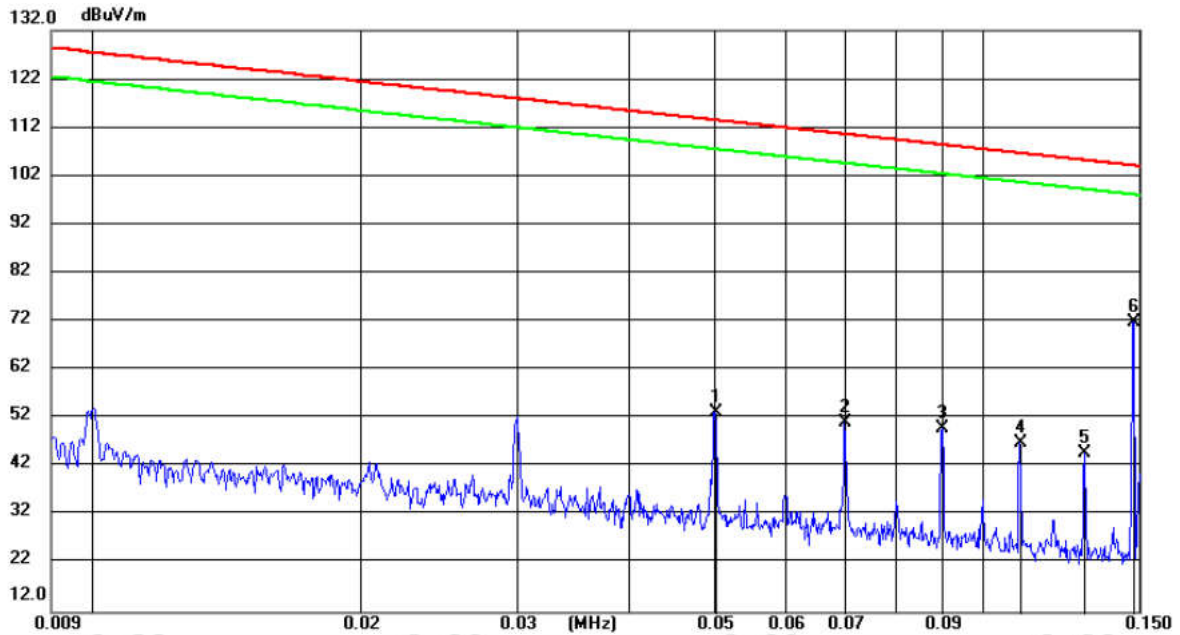


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Comment
1		0.0501	32.73	20.90	53.63	113.49	-59.86	QP 100	359	
2		0.0702	30.63	20.83	51.46	110.57	-59.11	QP 100	7	
3		0.0901	28.82	20.85	49.67	108.42	-58.75	QP 100	7	
4		0.1101	24.76	20.84	45.60	106.69	-61.09	QP 100	7	
5	*	0.1474	50.11	20.91	71.02	104.17	-33.15	QP 100	243	
6		0.1496	21.78	20.92	42.70	104.04	-61.34	QP 100	243	

Remark:

1. According to ANSI C63.10-2013 chapter 6.4.6, we tested the parallel, perpendicular, and ground-parallel of loop antenna, and 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 is the worst case.

Measurement Data (Mode c):

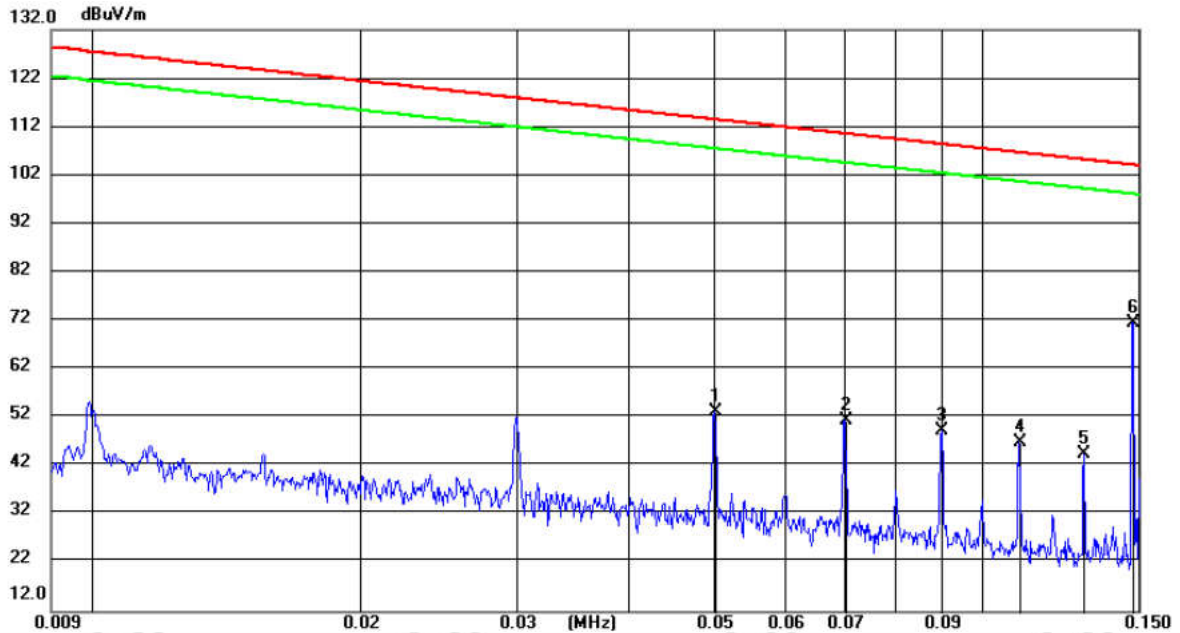


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.0501	32.35	20.90	53.25	113.49	-60.24	QP	100	0
2		0.0700	30.38	20.83	51.21	110.60	-59.39	QP	100	352
3		0.0901	29.12	20.85	49.97	108.42	-58.45	QP	100	352
4		0.1101	26.14	20.84	46.98	106.69	-59.71	QP	100	352
5		0.1303	24.04	20.90	44.94	105.23	-60.29	QP	100	352
6	*	0.1479	51.03	20.91	71.94	104.14	-32.20	QP	100	225

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.

Measurement Data (Mode d):

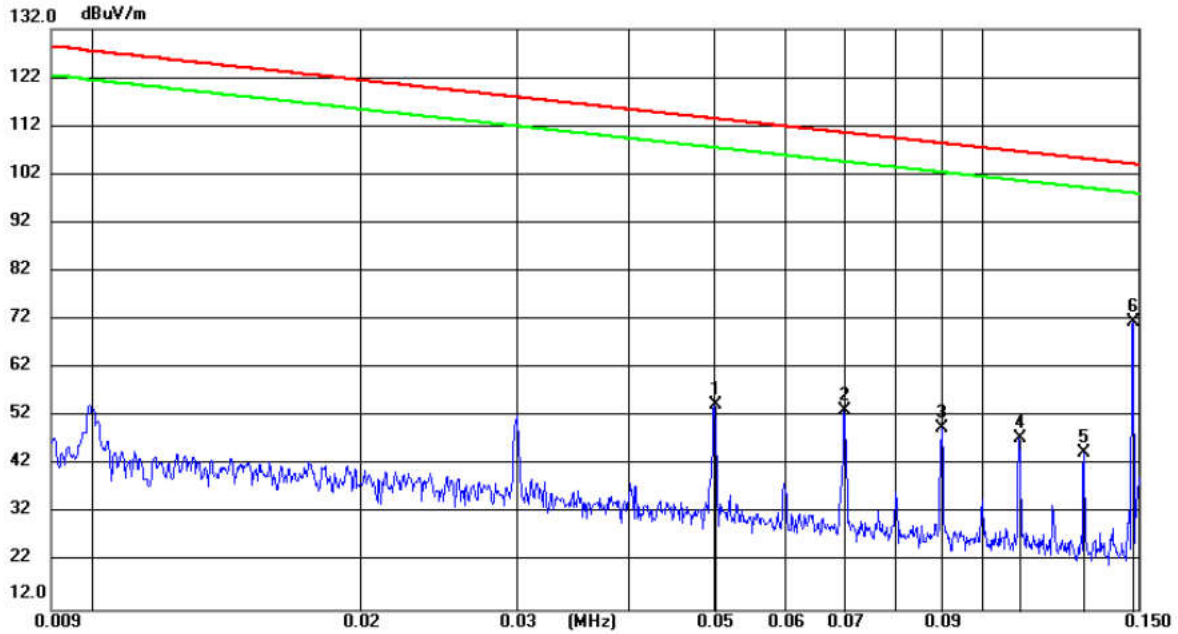


No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree		
	MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Detector	Comment
1	0.0501	32.48	20.90	53.38	113.49	-60.11	100	359	QP	
2	0.0702	30.72	20.83	51.55	110.57	-59.02	100	360	QP	
3	0.0901	28.52	20.85	49.37	108.42	-59.05	100	7	QP	
4	0.1101	26.25	20.84	47.09	106.69	-59.60	100	7	QP	
5	0.1303	23.68	20.90	44.58	105.23	-60.65	100	7	QP	
6 *	0.1479	50.60	20.91	71.51	104.14	-32.63	100	243	QP	

Remark:

1. According to ANSI C63.10-2013 chapter 6.4.6, we tested the parallel, perpendicular, and ground-parallel of loop antenna, and recorded the worst parallel data of loop antenna in the report.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading - Correct Factor
 Correct Factor = Pre-amplifier 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 is the worst case.

Measurement Data (Mode e):



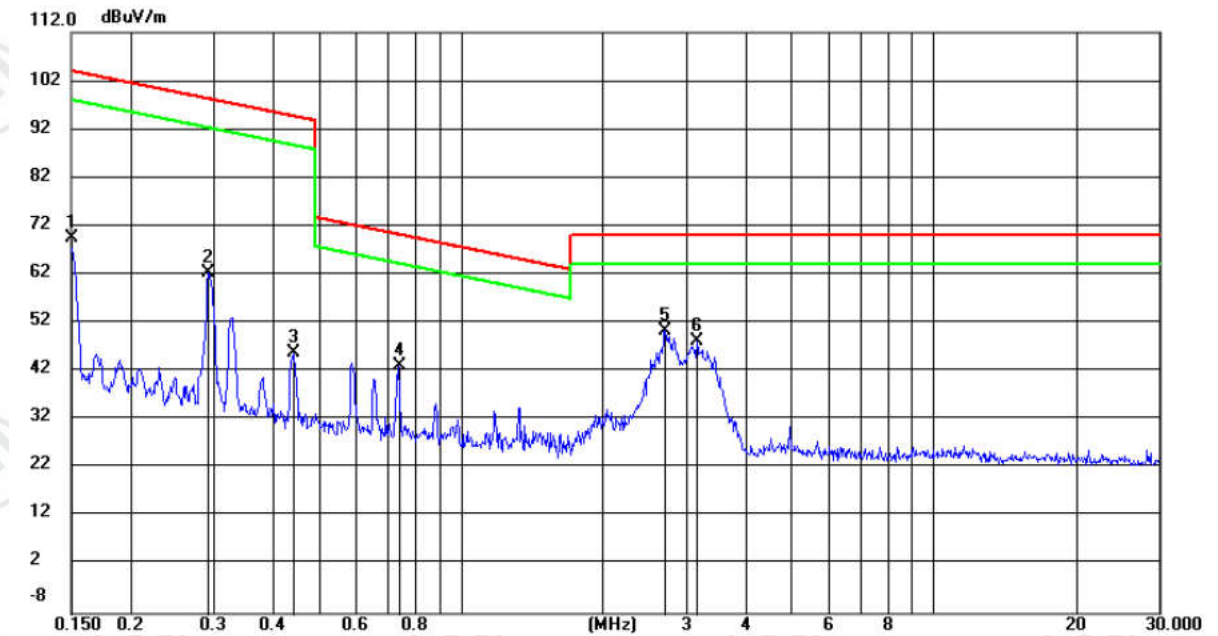
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		0.0501	33.66	20.90	54.56	113.49	-58.93	QP 100	359
2		0.0700	32.41	20.83	53.24	110.60	-57.36	QP 100	360
3		0.0901	28.81	20.85	49.66	108.42	-58.76	QP 100	7
4		0.1101	26.72	20.84	47.56	106.69	-59.13	QP 100	7
5		0.1303	23.60	20.90	44.50	105.23	-60.73	QP 100	7
6	*	0.1479	50.61	20.91	71.52	104.14	-32.62	QP 100	243

Remark:

1. According to ANSI C63.10-2013 chapter 6.4.6, we tested the parallel, perpendicular, and ground-parallel of loop antenna, and recorded the worst parallel data of loop antenna in the report.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading - Correct Factor
 Correct Factor = Pre-amplifier 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 is the worst case.

150kHz~30MHz:

Measurement Data (Mode a):

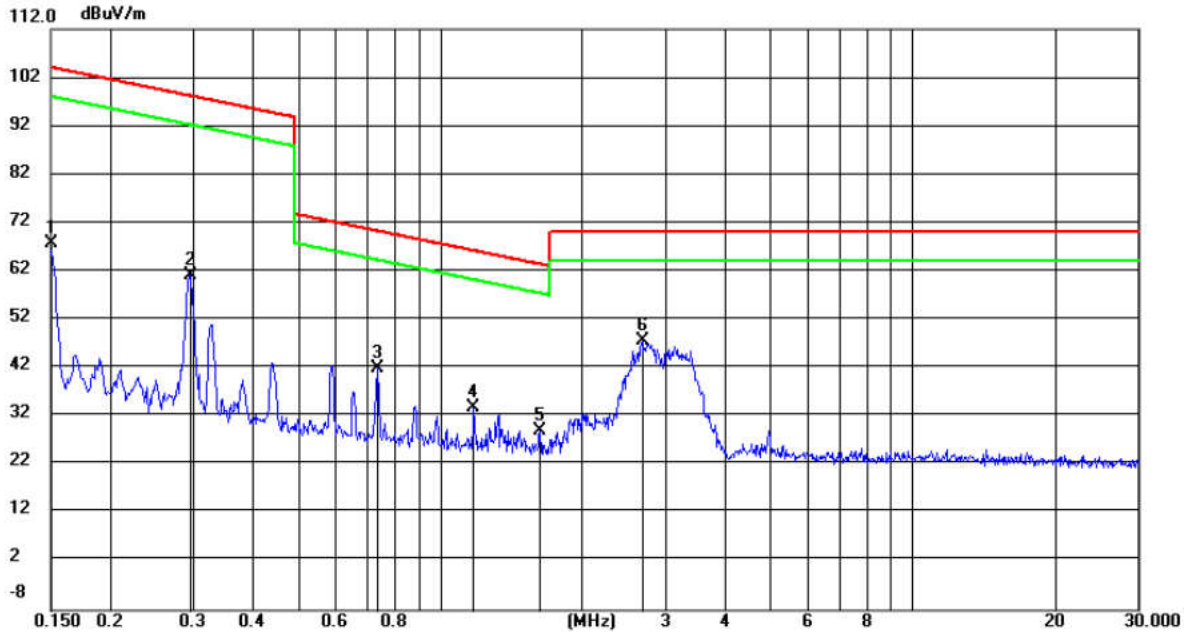


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.1500	48.58	20.92	69.50	104.02	-34.52	QP	100	212
2		0.2924	41.26	20.95	62.21	98.26	-36.05	QP	100	241
3		0.4421	25.09	20.66	45.75	94.69	-48.94	QP	100	220
4		0.7391	22.67	20.53	43.20	70.24	-27.04	QP	100	234
5	*	2.6925	29.91	20.42	50.33	70.00	-19.67	QP	100	162
6		3.1563	27.98	20.41	48.39	70.00	-21.61	QP	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.

Measurement Data (Mode b):



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.1500	46.95	20.92	67.87	104.05	-36.18	QP	100	220
2		0.2955	40.19	20.95	61.14	98.18	-37.04	QP	100	256
3		0.7352	21.57	20.53	42.10	70.29	-28.19	QP	100	212
4		1.1781	13.28	20.49	33.77	66.20	-32.43	QP	100	234
5		1.6276	8.53	20.46	28.99	63.40	-34.41	QP	100	242
6	*	2.6783	27.10	20.42	47.52	70.00	-22.48	QP	100	322

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.

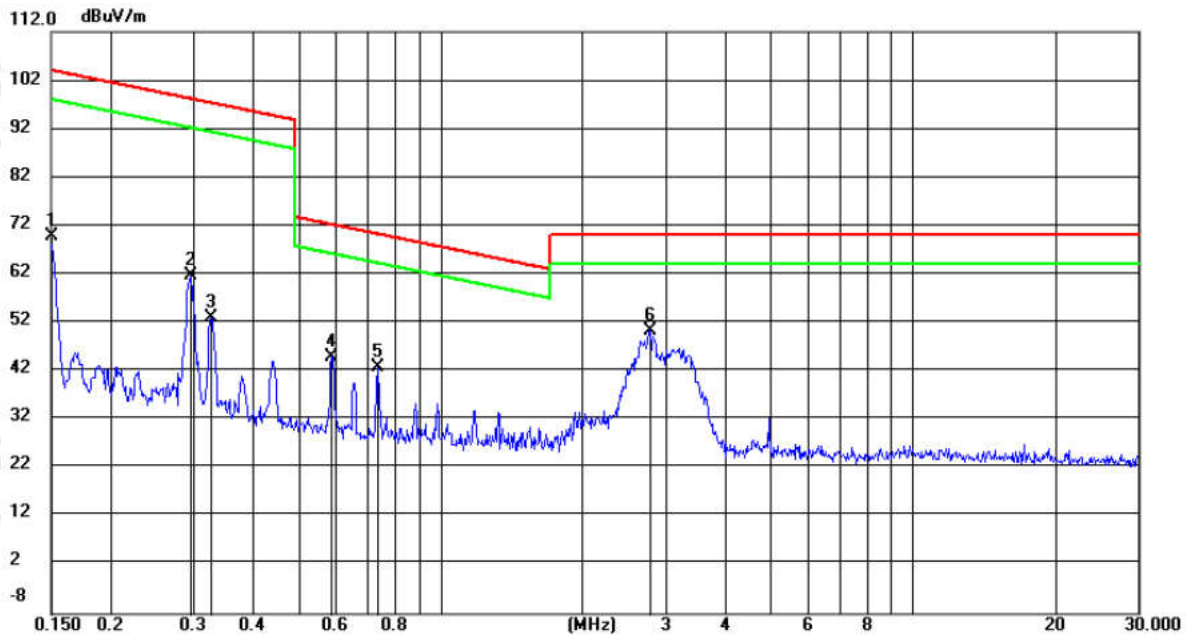
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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.

Measurement Data (Mode c):



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree
1		0.1500	48.82	20.92	69.74	104.02	-34.28	QP 100	204
2		0.2955	40.89	20.95	61.84	98.17	-36.33	QP 100	218
3		0.3268	32.27	20.88	53.15	97.30	-44.15	QP 100	218
4		0.5885	24.55	20.54	45.09	72.21	-27.12	QP 100	233
5		0.7352	22.44	20.53	42.97	70.29	-27.32	QP 100	189
6	*	2.7648	30.07	20.42	50.49	70.00	-19.51	QP 100	345

Remark:

1. According to ANSI C63.10-2013 chapter 6.4.6, we tested the parallel, perpendicular, and ground-parallel of loop antenna, and recorded the worst parallel data of loop antenna in the report.

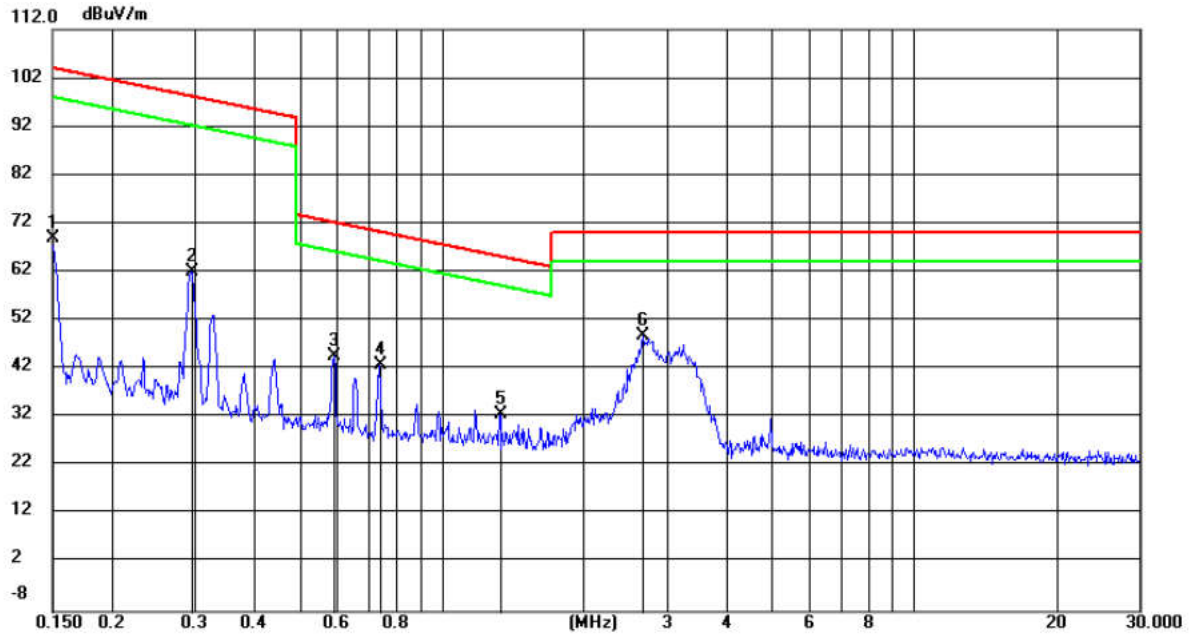
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} - \text{Correct Factor}$$

$$\text{Correct Factor} = \text{Pre-amplifier Factor} - \text{Antenna Factor} - \text{Cable Factor}$$

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

Measurement Data (Mode d):

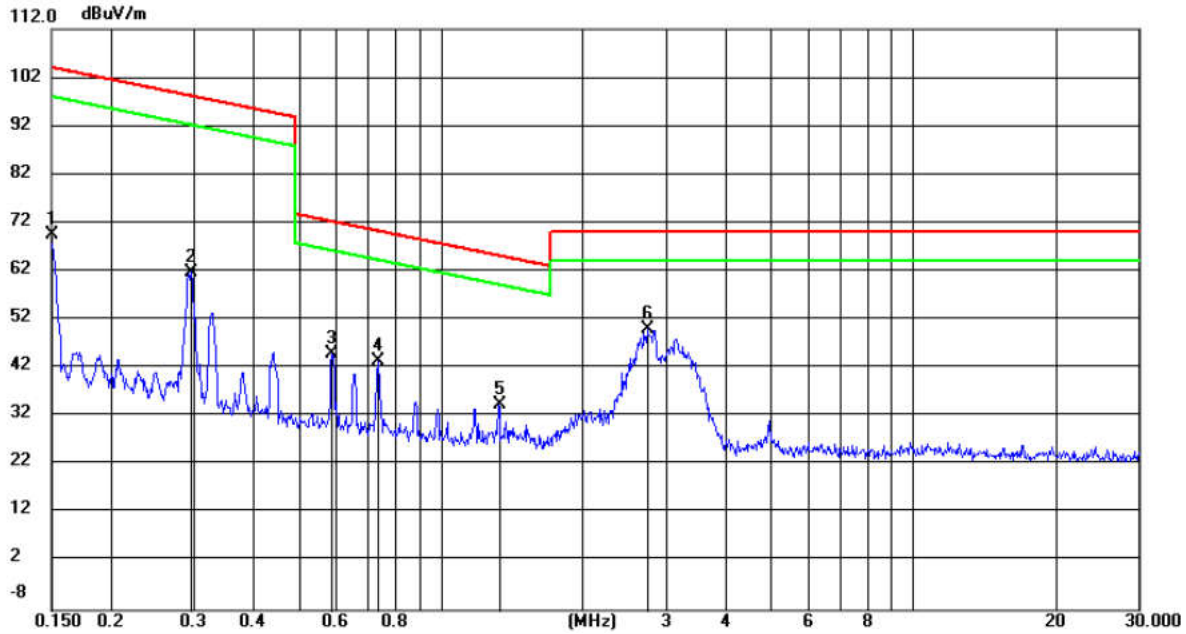


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		0.1500	48.13	20.92	69.05	104.02	-34.97	QP	100	213	
2		0.2940	41.22	20.95	62.17	98.21	-36.04	QP	100	228	
3		0.5916	23.98	20.54	44.52	72.17	-27.65	QP	100	228	
4		0.7391	22.21	20.53	42.74	70.24	-27.50	QP	100	250	
5		1.3238	12.22	20.48	32.70	65.19	-32.49	QP	100	161	
6	*	2.6641	28.54	20.43	48.97	70.00	-21.03	QP	100	7	

Remark:

1. According to ANSI C63.10-2013 chapter 6.4.6, we tested the parallel, perpendicular, and ground-parallel of loop antenna, and recorded the worst parallel data of loop antenna in the report.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:
 Final Test Level = Receiver Reading - Correct Factor
 Correct Factor = Pre-amplifier 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 is the worst case.

Measurement Data (Mode e):



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		0.1500	48.49	20.92	69.41	104.02	-34.61	100	205	
2		0.2955	40.95	20.95	61.90	98.17	-36.27	100	219	
3		0.5885	24.39	20.54	44.93	72.21	-27.28	100	219	
4		0.7352	22.91	20.53	43.44	70.29	-26.85	100	219	
5		1.3238	14.04	20.48	34.52	65.19	-30.67	100	256	
6	*	2.7356	29.53	20.42	49.95	70.00	-20.05	100	307	

Remark:

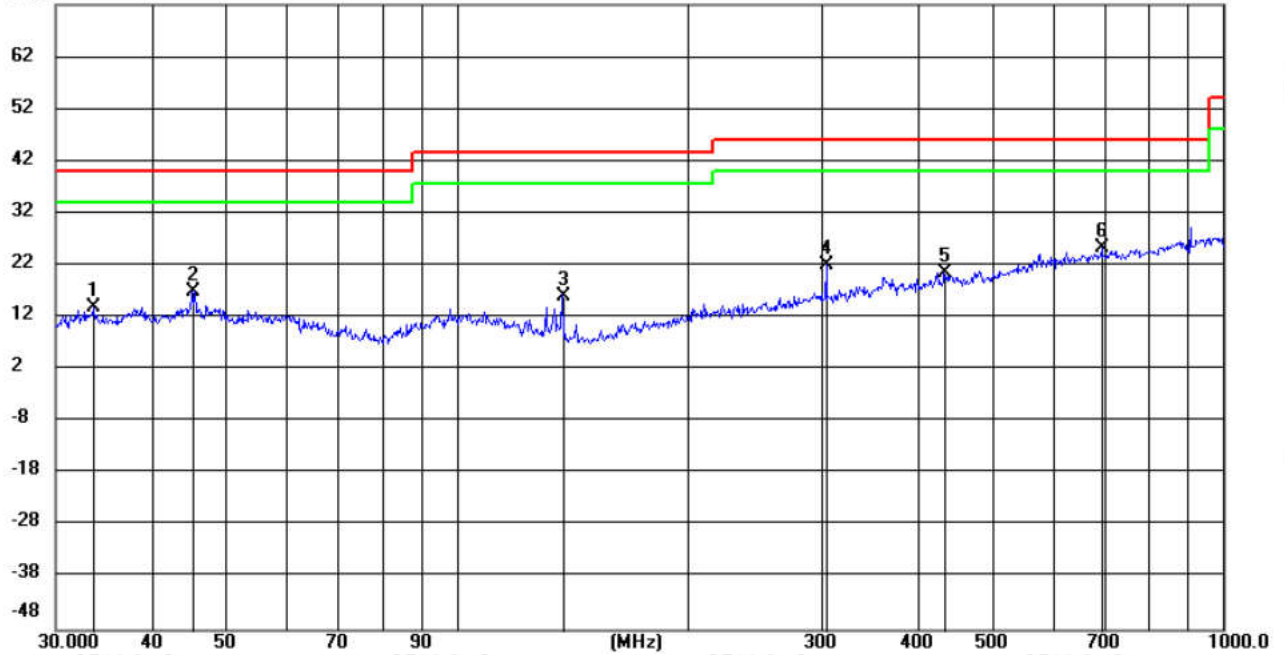
1. According to ANSI C63.10-2013 chapter 6.4.6, we tested the parallel, perpendicular, and ground-parallel of loop antenna, and recorded the worst parallel data of loop antenna in the report.
2. The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation 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 is the worst case.

30MHz-1GHz:

Measurement Data (Mode a):

Polarization: Horizontal

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Comment
1		33.6508	1.30	12.74	14.04	40.00	-25.96	QP 199	321	
2		45.2959	3.49	13.58	17.07	40.00	-22.93	QP 199	352	
3		137.5166	6.87	9.33	16.20	43.50	-27.30	QP 100	229	
4		304.1830	5.95	16.23	22.18	46.00	-23.82	QP 100	100	
5		433.3047	1.87	18.64	20.51	46.00	-25.49	QP 100	7	
6	*	696.1240	2.48	22.97	25.45	46.00	-20.55	QP 100	240	

Remark:

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

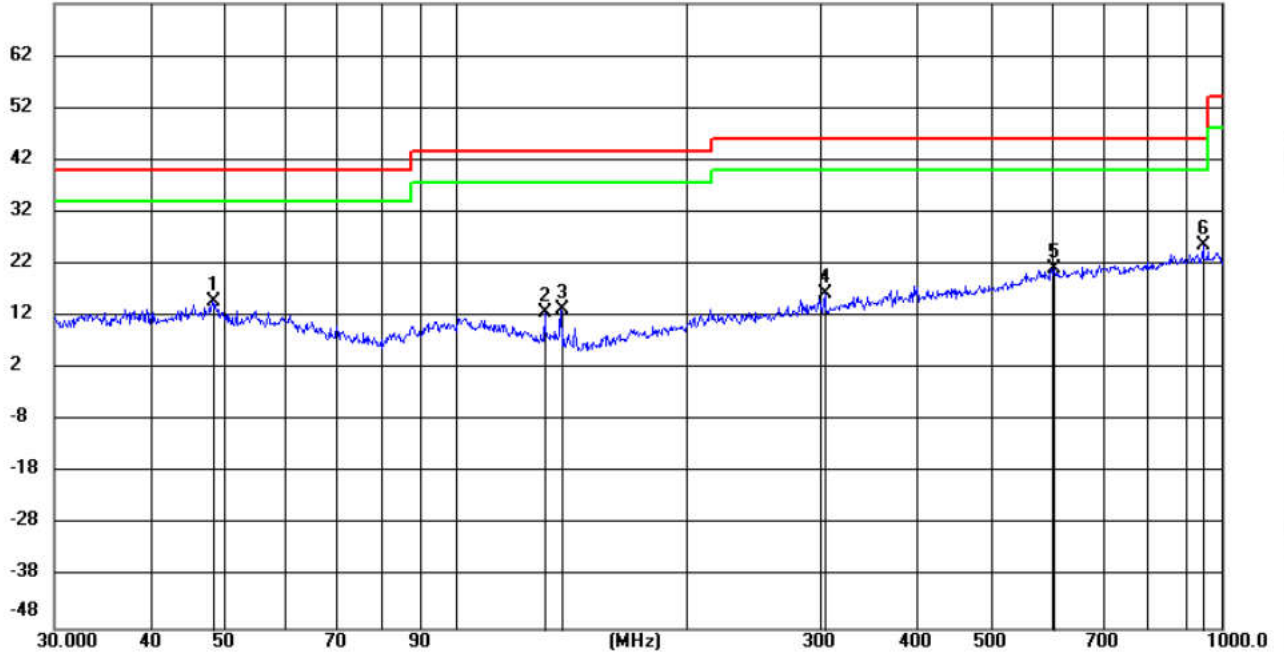
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Pre-amplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode a):

Polarization: Vertical

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		48.2048	1.88	13.04	14.92	40.00	-25.08	QP	100	332	
2		131.2505	4.20	8.60	12.80	43.50	-30.70	QP	200	7	
3		137.5166	5.36	8.10	13.46	43.50	-30.04	QP	200	37	
4		304.2363	2.15	14.27	16.42	46.00	-29.58	QP	100	230	
5		605.4469	1.60	19.63	21.23	46.00	-24.77	QP	100	218	
6	*	946.9330	2.73	22.83	25.56	46.00	-20.44	QP	100	116	

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:

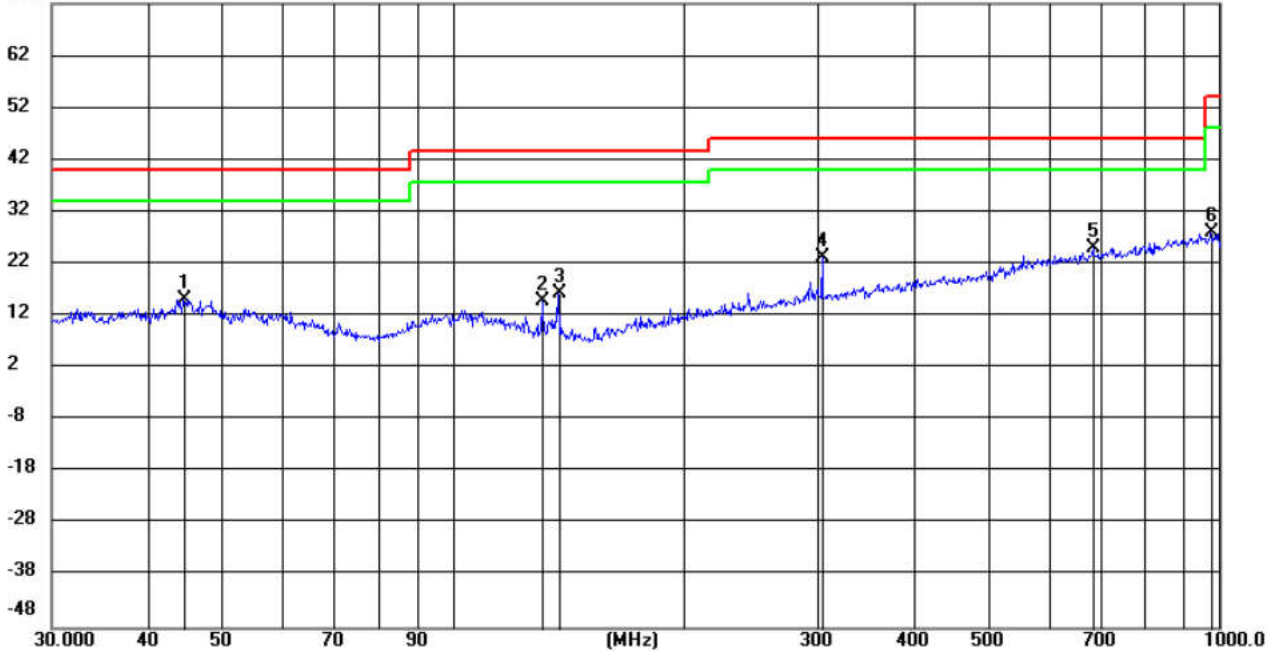
Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Measurement Data (Mode b):

Polarization: Horizontal

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		44.6181	1.71	13.59	15.30	40.00	-24.70	QP	200	32	
2		131.2734	5.04	9.80	14.84	43.50	-28.66	QP	100	201	
3		137.4924	6.96	9.33	16.29	43.50	-27.21	QP	100	160	
4		304.2363	7.04	16.23	23.27	46.00	-22.73	QP	100	7	
5	*	686.4281	2.18	22.90	25.08	46.00	-20.92	QP	200	239	
6		977.4651	1.57	26.37	27.94	54.00	-26.06	QP	200	2	

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:

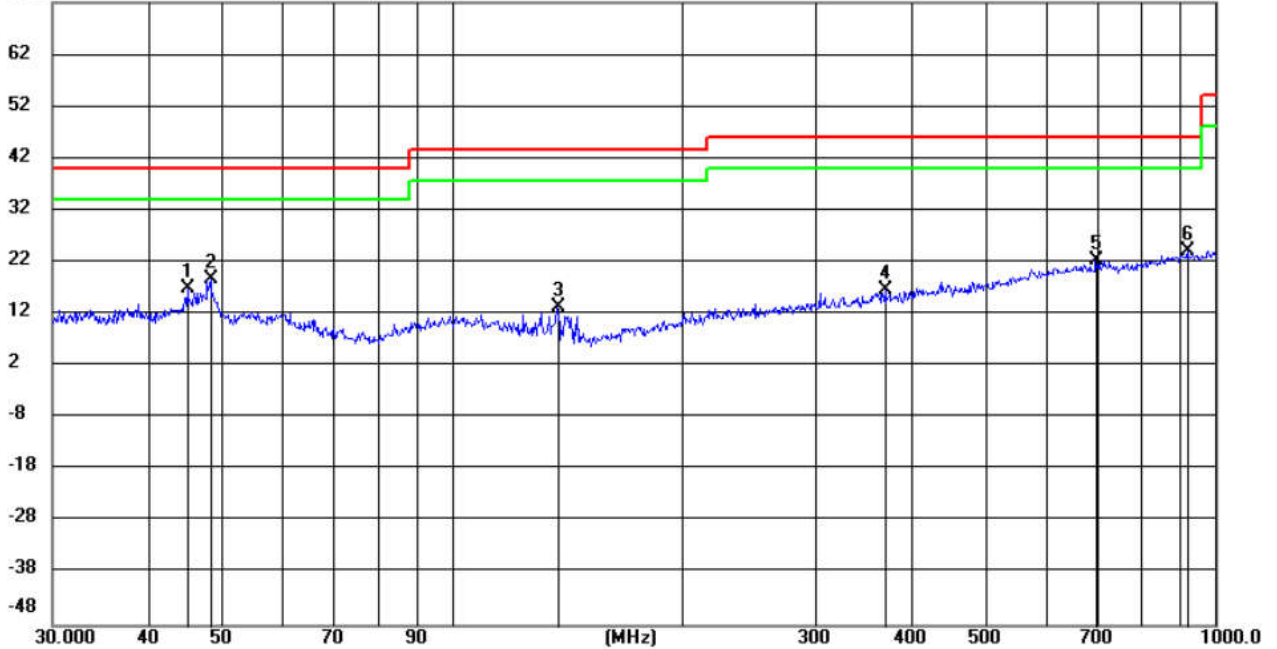
Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Measurement Data (Mode b):

Polarization: Vertical

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1		45.1058	3.93	13.10	17.03	40.00	-22.97	QP	100	169	
2	*	48.4421	5.63	13.03	18.66	40.00	-21.34	QP	100	331	
3		137.4924	5.38	8.10	13.48	43.50	-30.02	QP	200	37	
4		370.3775	1.13	15.40	16.53	46.00	-29.47	QP	100	189	
5		698.9368	2.24	20.09	22.33	46.00	-23.67	QP	100	352	
6		921.0612	1.34	22.71	24.05	46.00	-21.95	QP	100	26	

Remark:

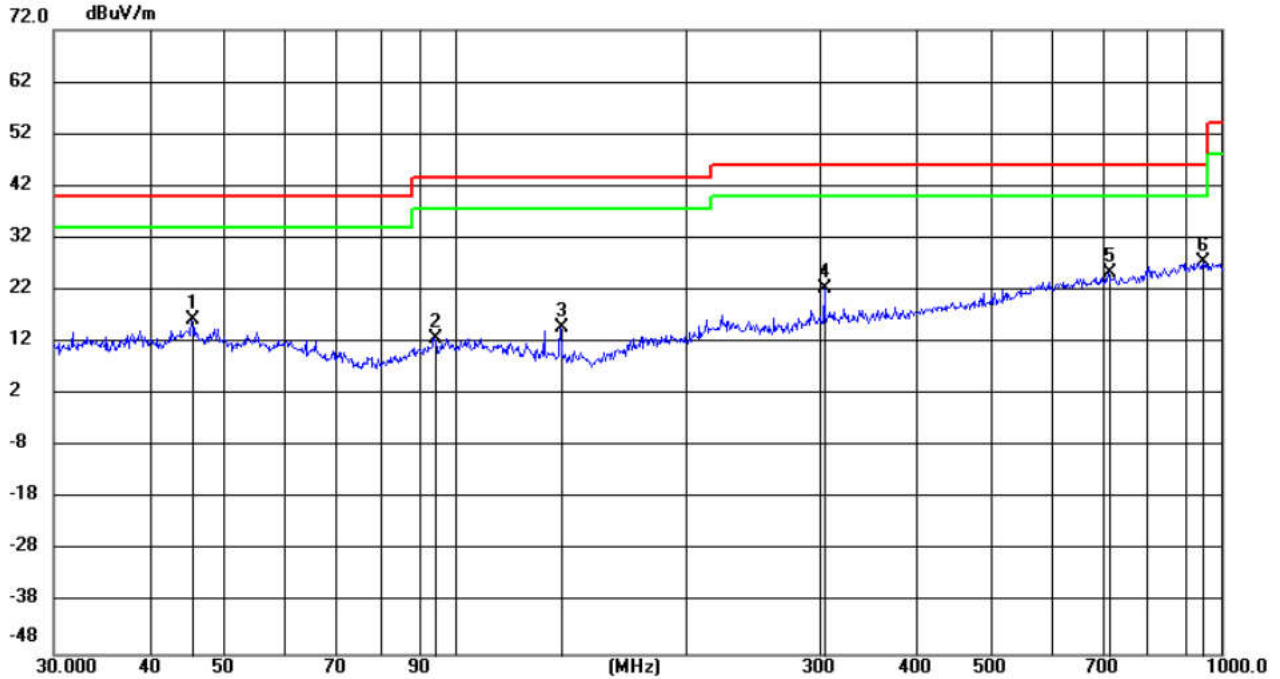
1. The field strength is calculated by adding the Antenna Factor, Cable Factor & Pre-amplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Pre-amplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode c):

Polarization: Horizontal



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree	Comment
1		45.4869	2.90	13.58	16.48	40.00	-23.52	QP 100	294	
2		94.3290	0.50	12.32	12.82	43.50	-30.68	QP 199	352	
3		137.4924	5.53	9.33	14.86	43.50	-28.64	QP 199	352	
4		304.1830	6.18	16.23	22.41	46.00	-23.59	QP 100	242	
5		713.6725	2.28	23.21	25.49	46.00	-20.51	QP 100	68	
6	*	948.0958	1.35	26.20	27.55	46.00	-18.45	QP 100	160	

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:

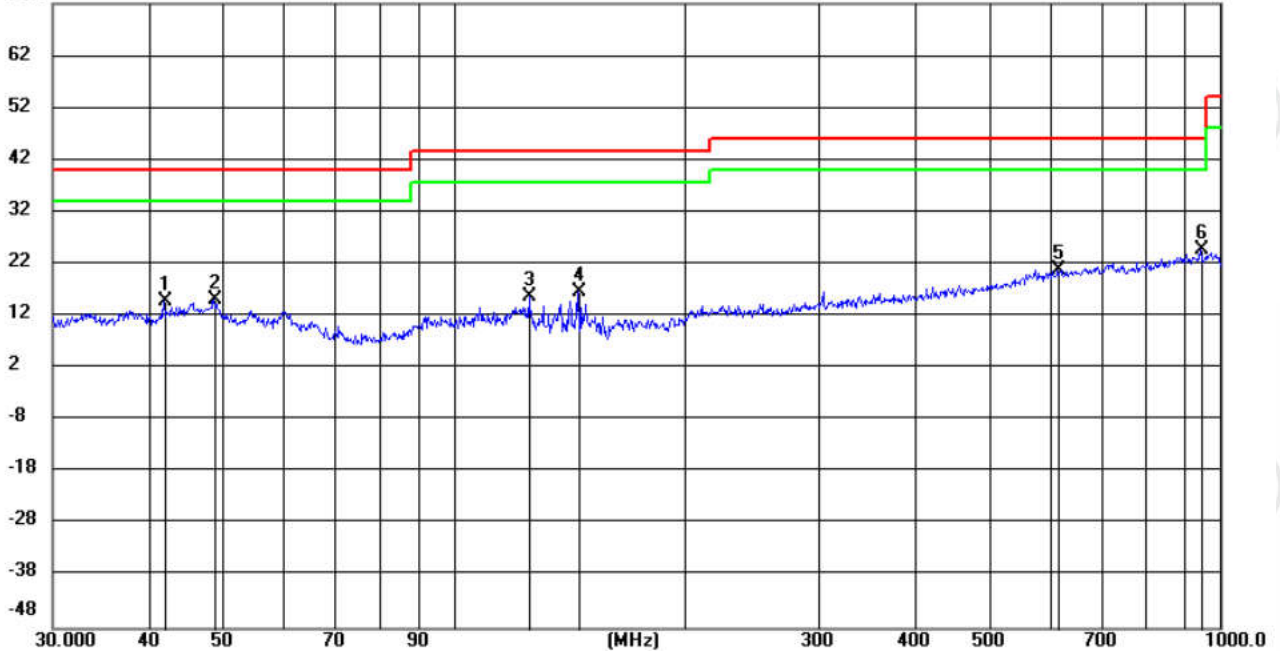
Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Measurement Data (Mode c):

Polarization: Vertical

72.0 dBuV/m



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB	cm	degree	Comment
1		41.9256	1.57	13.16	14.73	40.00	-25.27	100	65	
2		48.6805	2.02	13.03	15.05	40.00	-24.95	100	352	
3		125.7981	6.16	9.46	15.62	43.50	-27.88	100	157	
4		145.5801	8.74	7.90	16.64	43.50	-26.86	100	127	
5		616.0475	1.30	19.68	20.98	46.00	-25.02	200	88	
6	*	943.1221	1.86	22.82	24.68	46.00	-21.32	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:

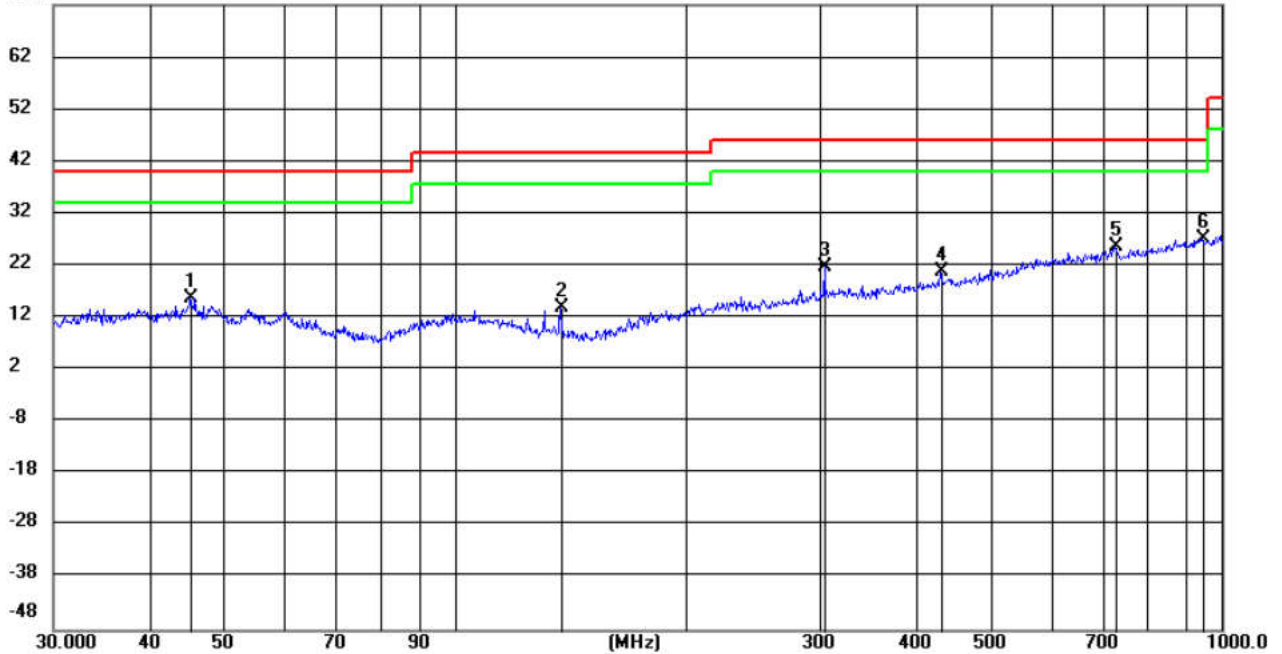
Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Measurement Data (Mode d):

Polarization: Horizontal

72.0 dBuV/m



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	45.3595	2.19	13.58	15.77	40.00	-24.23	QP	200	352	
2	137.4924	4.71	9.33	14.04	43.50	-29.46	QP	100	141	
3	304.2363	5.41	16.23	21.64	46.00	-24.36	QP	200	352	
4	430.6538	2.12	18.59	20.71	46.00	-25.29	QP	200	70	
5	728.7191	2.22	23.43	25.65	46.00	-20.35	QP	200	352	
6 *	944.4458	0.85	26.18	27.03	46.00	-18.97	QP	200	166	

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:

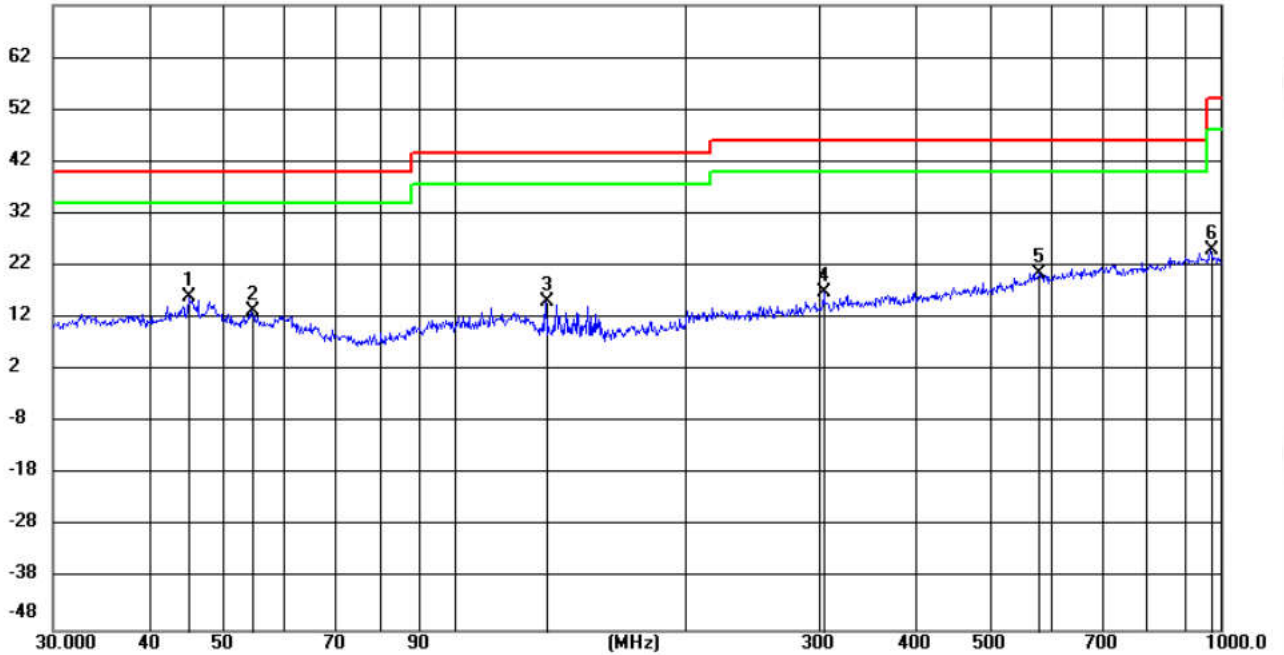
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode d):

Polarization: Vertical

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	45.1137	2.91	13.10	16.01	40.00	-23.99	QP	200	168	
2		54.6046	0.73	12.68	13.41	40.00	-26.59	QP	200	148	
3		131.8964	6.47	8.55	15.02	43.50	-28.48	QP	100	191	
4		304.2363	2.54	14.27	16.81	46.00	-29.19	QP	200	58	
5		578.9744	1.55	19.14	20.69	46.00	-25.31	QP	100	352	
6		971.1447	2.08	22.96	25.04	54.00	-28.96	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:

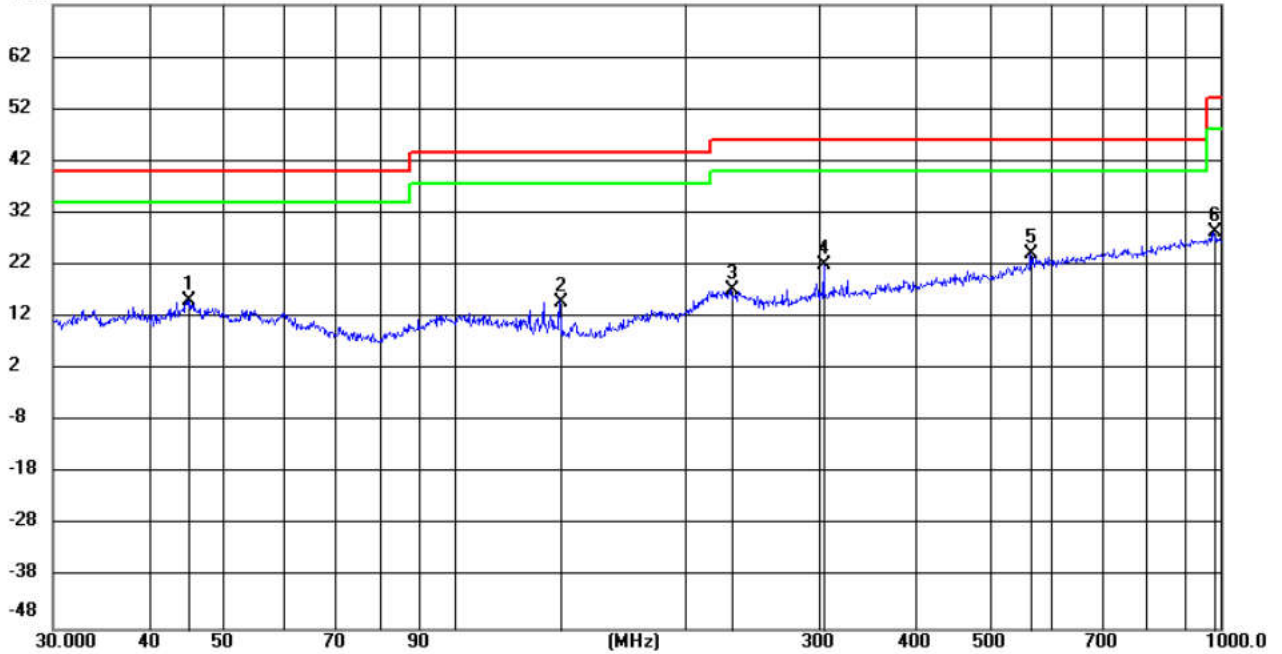
Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor - Antenna Factor - Cable Factor

Measurement Data (Mode e):

Polarization: Horizontal

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Antenna Height cm	Table Degree degree	Comment
1		45.0188	1.67	13.58	15.25	40.00	-24.75	QP 100	109	
2		137.4924	5.67	9.33	15.00	43.50	-28.50	QP 100	7	
3		230.6640	3.80	13.54	17.34	46.00	-28.66	QP 100	170	
4		304.1830	5.86	16.23	22.09	46.00	-23.91	QP 100	293	
5	*	565.4313	2.59	21.42	24.01	46.00	-21.99	QP 100	7	
6		980.5548	1.87	26.39	28.26	54.00	-25.74	QP 200	146	

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:

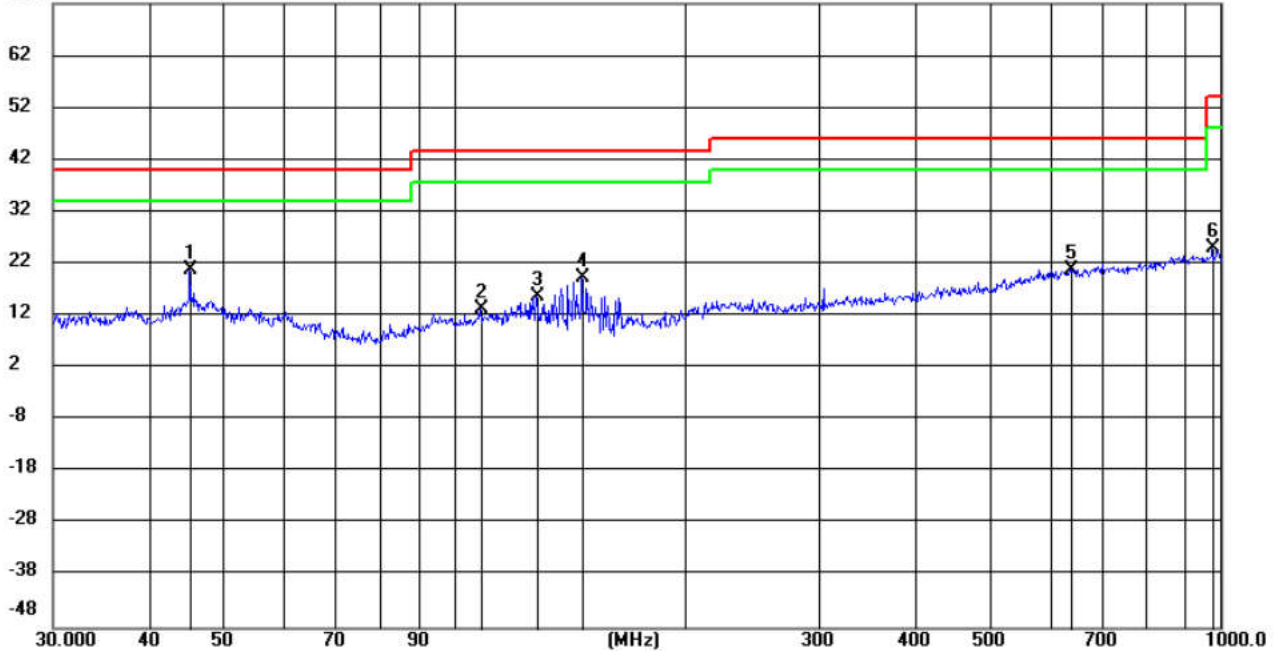
Final Test Level =Receiver Reading - Correct Factor

Correct Factor = Preamplifier Factor– Antenna Factor–Cable Factor

Measurement Data (Mode e):

Polarization: Vertical

72.0 dBuV/m



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB/m	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	*	45.2563	7.73	13.09	20.82	40.00	-19.18	QP	100	352	
2		108.3616	1.39	11.85	13.24	43.50	-30.26	QP	100	177	
3		128.1130	6.76	9.04	15.80	43.50	-27.70	QP	100	146	
4		146.9134	11.39	7.90	19.29	43.50	-24.21	QP	100	187	
5		636.8036	1.15	19.78	20.93	46.00	-25.07	QP	100	352	
6		978.6655	1.95	22.99	24.94	54.00	-29.06	QP	100	352	

Remark:

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

Final Test Level = Receiver Reading - Correct Factor

Correct Factor = Pre-amplifier Factor - Antenna Factor - Cable Factor