



FCC EMC Test Report

FCC ID: BBP-OTE0A91

This report concerns: Class II Permissive Change

Project No. : 2307C208A
Equipment : Meeting Device
Brand Name : RICOH
Test Model : RICOH Meeting 360 V2
Series Model : N/A
Applicant : Ricoh Company Ltd
Address : 2-7-1 Izumi, Ebina, Kanagawa 243-0460, Japan
Manufacturer : Thundercomm Technology Co., Ltd
Address : No. 107, Middle Datagu Road, Xiantao Street, Yubei District, Chongqing, China, 401122
Factory : Ability Technology (DongGuan) Co.,Ltd
Address : NO.305, Liaobu songbai Road, Liaobu Town, Dongguan City, Guangdong Province, P.R.China
Date of Receipt : Apr. 15, 2024
Date of Test : Apr. 16, 2024 ~ May 17, 2024
Issued Date : Jul. 31, 2024
Report Version : R01
Test Sample : Engineering Sample No.: DG202404167
Standard(s) : FCC CFR Title 47, Part 15, Subpart B

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Prepared by : Scott Xiang
Scott Xiang

Approved by : Kang Zhang
Kang Zhang

Room 108, Building 2, No. 1, Yile Road, Songshan Lake Zone, Dongguan City, Guangdong 523000 China

Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

Declaration

BTL represents to the client that testing is done in accordance with standard procedures as applicable and that test instruments used has been calibrated with standards traceable to international standard(s) and/or national standard(s).

BTL's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. **BTL** assumes no responsibility for the data provided by the customer, any statements, inferences or generalizations drawn by the customer or others from the reports issued by **BTL**.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the U.S. Government.

This report is the confidential property of the client. As a mutual protection to the clients, the public and ourselves, the test report shall not be reproduced, except in full, without our written approval.

BTL's laboratory quality assurance procedures are in compliance with the ISO/IEC 17025: 2017 requirements, and accredited by the conformity assessment authorities listed in this test report.

BTL is not responsible for the sampling stage, so the results only apply to the sample as received.

The information, data and test plan are provided by manufacturer which may affect the validity of results, so it is manufacturer's responsibility to ensure that the apparatus meets the essential requirements of applied standards and in all the possible configurations as representative of its intended use.

Limitation

For the use of the authority's logo is limited unless the Test Standard(s)/Scope(s)/Item(s) mentioned in this test report is (are) included in the conformity assessment authorities acceptance respective.

Please note that the measurement uncertainty is provided for informational purpose only and are not use in determining the Pass/Fail results.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCE-1-2307C208A	R00	<p>This is a supplementary report to the original test report (BTL-FCCE-1-2307C208) and due to below items:</p> <ol style="list-style-type: none">1. Changed the factory address.2. The WIFI function of the product adds the point-to-point connection function, added point-to-point connection capabilities for 2.4G and 5G WIFI UNII-1 and UNII-3, which frequencies support both client and master (software updated).3. In terms of hardware, changed the layout of the TYPE-C board. <p>Above changes, all items have retested and recorded in this report. Original data please refer to original report.</p>	Jul. 19, 2024	Invalid
BTL-FCCE-1-2307C208A	R01	Modified the comments.	Jul. 31, 2024	Valid

1. SUMMARY OF TEST RESULTS

Emission		
Standard(s)	Test Item	Result
FCC CFR Title 47,Part 15,Subpart B ANSI C63.4-2014	AC Power Line Conducted Emissions	PASS
	Radiated Emissions 30 MHz to 1 GHz	PASS
	Radiated Emissions Above 1 GHz	PASS

1.1 TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong 523792.

BTL's Registration Number for FCC: 162128

BTL's Designation Number for FCC: CN5042

1.2 MEASUREMENT UNCERTAINTY

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

The BTL measurement uncertainty as below table:

A. AC power line conducted emissions test:

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-C01	CISPR	150kHz ~ 30MHz	2.98

B. Radiated emissions test:

Test Site	Method	Measurement Frequency Range	Ant. H / V	U,(dB)
DG-CB02 (3m)	CISPR	30MHz ~ 200MHz	V	4.34
		30MHz ~ 200MHz	H	3.38
		200MHz ~ 1,000MHz	V	4.80
		200MHz ~ 1,000MHz	H	4.16

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB02 (3m)	CISPR	1GHz ~ 6GHz	4.38
		6GHz ~ 18GHz	5.12

Test Site	Method	Measurement Frequency Range	U,(dB)
DG-CB02 (1m)	CISPR	18 ~ 26.5 GHz	3.36
		26.5 ~ 40 GHz	3.58

Note: Unless specifically mentioned, the uncertainty of measurement has not been taken into account to declare the compliance or non-compliance to the specification.

1.3 TEST ENVIRONMENT CONDITIONS

Test Item	Temperature	Humidity	Tested By	Test Date
AC Power Line Conducted Emissions	25°C	49%	Jack Zhang	Apr. 18, 2024
Radiated emissions 30 MHz to 1 GHz	25°C	50%	Trey Chen	Apr. 20, 2024
Radiated emissions above 1 GHz	25°C	50%	Trey Chen	Apr. 20, 2024
	23°C	52%	Hadi Hu	May 17, 2024

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Meeting Device
Brand Name	RICOH
Test Model	RICOH Meeting 360 V2
Series Model	N/A
Model Difference(s)	N/A
Software Version	FlatBuild_Turbox-RB5_xx.xx_LE1.0.VerifyBuild.perf.20240520.0138_RB5
Hardware Version	V02
Identification No. of EUT(S/N)	N/A
Dimensions and mass	90mm*110mm*268.3mm
Component unit of EUT	<input type="checkbox"/> Single unit <input checked="" type="checkbox"/> Multiple unit
Sample Status	<input checked="" type="checkbox"/> Engineering sample <input type="checkbox"/> Final shipment prototype
Power Source	1# DC Voltage supplied from AC adapter. Model: S1C045DC 2# Supplied from PC USB port.
Power Rating	1# I/P: 100-240V~ 50/60Hz 1.5A O/P: 5.0V \equiv 3.0A 15.0W; 9.0V \equiv 3.0A 27.0W; 15.0V \equiv 3.0A 45.0W; 20.0V \equiv 2.25A 45.0W; 2# Input 5V or 9V or 15V \equiv 3A or 20V \equiv 2.25A 45W Max.
Connecting I/O Port(s)	2* UCB Type-C port 1* MGMT port
Classification of EUT	Class B
Highest Internal Frequency(Fx)	5.8GHz

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generated from EUT, the test system was pre-scanning tested based on the consideration of following EUT operation mode or test configuration mode which possibly have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	FULL SYSTEM(Camera on+2.4G WIFI+USB-C Play)(adapter)
Mode 2	FULL SYSTEM(Camera on+5G WIFI+USB-C Play)(adapter)
Mode 3	FULL SYSTEM(Camera on+5.8G WIFI+USB-C Play)(adapter)
Mode 4	FULL SYSTEM(Camera on+ WIFI OFF+USB-C Play)(PC)
Mode 5	FULL SYSTEM(Camera on+5G WIFI(connect RICOH Meeting 360 V2)+USB-C Play)(adapter)

AC Power Line Conducted Emissions Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM(Camera on+2.4G WIFI+USB-C Play)(adapter)
Mode 4	FULL SYSTEM(Camera on+ WIFI OFF+USB-C Play)(PC)
Mode 5	FULL SYSTEM(Camera on+5G WIFI(connect RICOH Meeting 360 V2)+USB-C Play)(adapter)

Radiated Emissions 30 MHz to 1 GHz Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM(Camera on+2.4G WIFI+USB-C Play)(adapter)
Mode 4	FULL SYSTEM(Camera on+ WIFI OFF+USB-C Play)(PC)
Mode 5	FULL SYSTEM(Camera on+5G WIFI(connect RICOH Meeting 360 V2)+USB-C Play)(adapter)

Radiated emissions above 1 GHz Test	
Final Test Mode	Description
Mode 1	FULL SYSTEM(Camera on+2.4G WIFI+USB-C Play)(adapter)
Mode 4	FULL SYSTEM(Camera on+ WIFI OFF+USB-C Play)(PC)
Mode 5	FULL SYSTEM(Camera on+5G WIFI(connect RICOH Meeting 360 V2)+USB-C Play)(adapter)

Note:

- Test mode 1-mode 3, the worst result is mode 1 to evaluated mode 4 PC power supply. Mode 5 is a new mode in this case.
The worst case is recorded in the test report.
- The product supports 2.4G&5G WIFI function.
The frequency exemptions are 2400-2483.5MHz, 5150-5250MHz, 5250-5350MHz, 5470-5725MHz, 5725-5850MHz.
- Radiated emission above 1GHz tested with 2.4G&5G filter.

2.3 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. The standard test signals and output signal as following:

For Mode 1 – Mode 2:

1. EUT connected to Adapter via USB-C cable.
2. EUT connected to Notebook(A) via USB-C cable.
3. EUT connected to Notebook(C) via RJ45 cable.
4. EUT connected to Router(B) via 2.4G / 5G WIFI.

For Mode 3:

1. EUT connected to Adapter via USB-C cable.
2. EUT connected to Notebook(A) via USB-C cable.
3. EUT connected to Notebook(C) via RJ45 cable.
4. EUT connected to Router(B) via 5.8G WIFI.

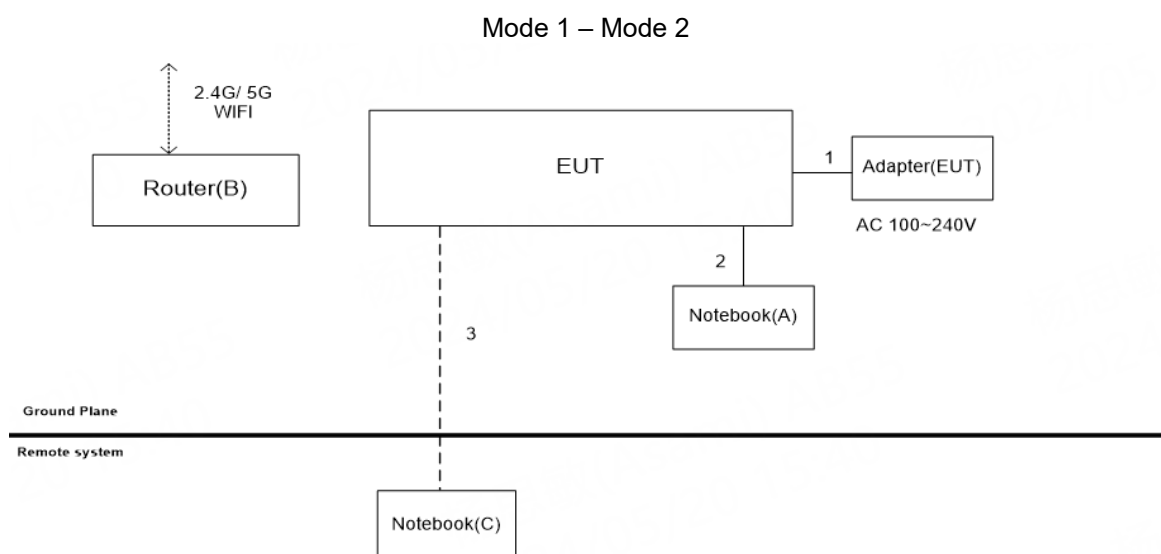
For Mode 4:

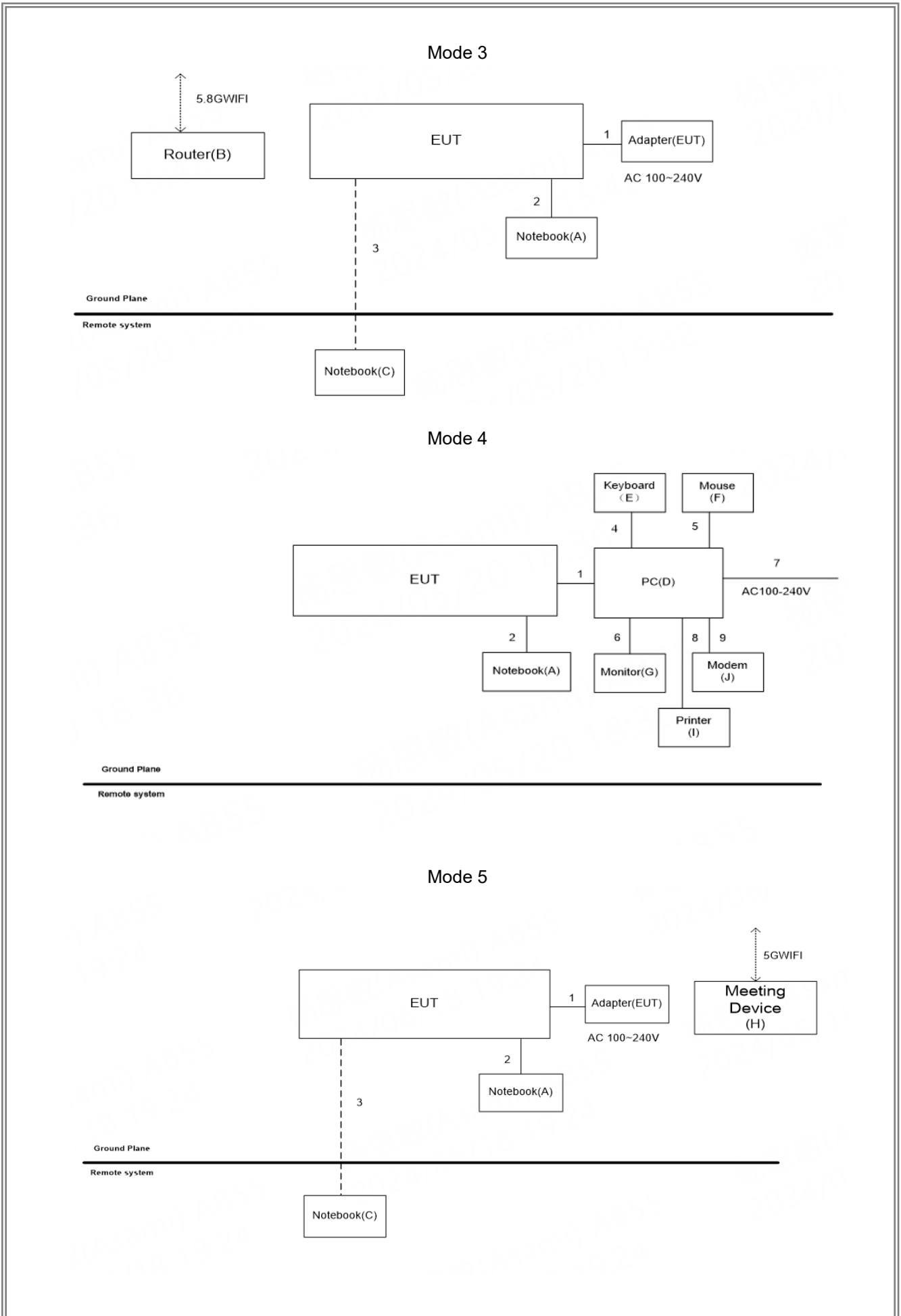
1. EUT connected to PC(D) via USB-C cable.
2. EUT connected to Notebook(A) via USB-C cable.
3. PC(D) connected to Mouse(F) & Keyboard(E) via USB cable.
4. PC(D) connected to Monitor(G) via HDMI cable.
5. PC(D) connected to Printer(I) via USB cable.
6. PC(D) connected to Modem(J) via RS232 cable.
7. Tested the power terminal of the PC.

For Mode 5:

1. EUT connected to Adapter via USB-C cable.
2. EUT connected to Notebook(A) via USB-C cable.
3. EUT connected to Notebook(C) via RJ45 cable.
4. EUT connected to Router(B) via 2.4G / 5G WIFI.
5. EUT connected to Meeting Device(H) via 5G WIFI.

2.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED





2.5 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.
A	Notebook	Lenovo	V310-14IKB	LR07SH32
B	Router	AUSU	RT-AC66U	E8ICGG000138
C	Notebook	Lenovo	V310-14IKB	LR07SH58
D	PC	DELL	OptiPlex 7090 Tower	N/A
E	Keyboard	DELL	KB212-B	CN0HTXH97158125004DXA01
F	Mouse	DELL	MS111-P	CN011D3V71581279OLOT
G	Monitor	PHILIPS	241P6V	UHBA1633026326
H	Meeting Device	N/A	RICOH Meeting 360 V2	N/A
I	Printer	Lenovo	M630	SP00335371
J	Modem	Lenovo	LEM56SP	4000137896

Item	Cable Type	Shielded Type	Ferrite Core	Length
1	USB-C Cable	YES	NO	2m
2	USB-C Cable	YES	NO	2m
3	RJ45 Cable	NO	NO	10m
4	USB Cable	YES	NO	1.8m
5	USB Cable	YES	NO	1.8m
6	HDMI Cable	YES	NO	1.8m
7	AC Cable	NO	NO	1.8m
8	USB cable	YES	NO	1.8m
9	RS232 cable	YES	NO	1.8m

3. EMC EMISSION TEST

3.1 AC POWER LINE CONDUCTED EMISSIONS TEST

3.1.1 LIMIT

Frequency of Emission (MHz)	Class B (dB μ V)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56 *	56 - 46 *
0.5 - 5	56	46
5 - 30	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.
- (3) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor(if use)
 Margin Level = Measurement Value - Limit Value

3.1.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	50 Ω Terminator	SHX	TF2-3G-A	8122901	Dec. 22, 2024
2	TWO-LINE V-NETWORK	R&S	ENV216	100526	Jun. 16, 2024
3	EMI Test Receiver	R&S	ESR3	101862	Dec. 22, 2024
4	Cable	N/A	SFT205-NMNM-12M-001	12M	Nov. 27, 2024
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	ISN	Teseq GmbH	ISN T8	30833	Jun. 16, 2024
7	Artificial-Mains Network	SCHWARZBECK	NSLK 8127	8127685	Dec. 22, 2024

Remark: "N/A" denotes no model name, serial no. or calibration specified.

All calibration period of equipment list is one year.

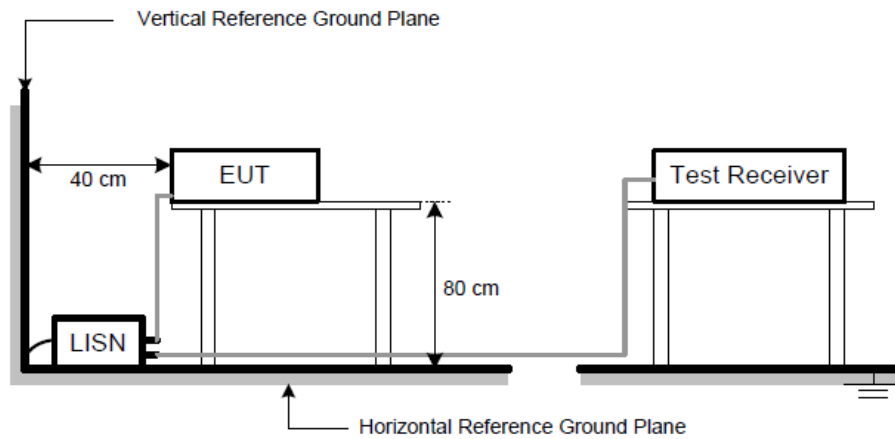
3.1.3 TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item –EUT Test Photos.
- f. Measuring frequency range from 150KHz to 30MHz.

3.1.4 DEVIATION FROM TEST STANDARD

No deviation

3.1.5 TEST SETUP

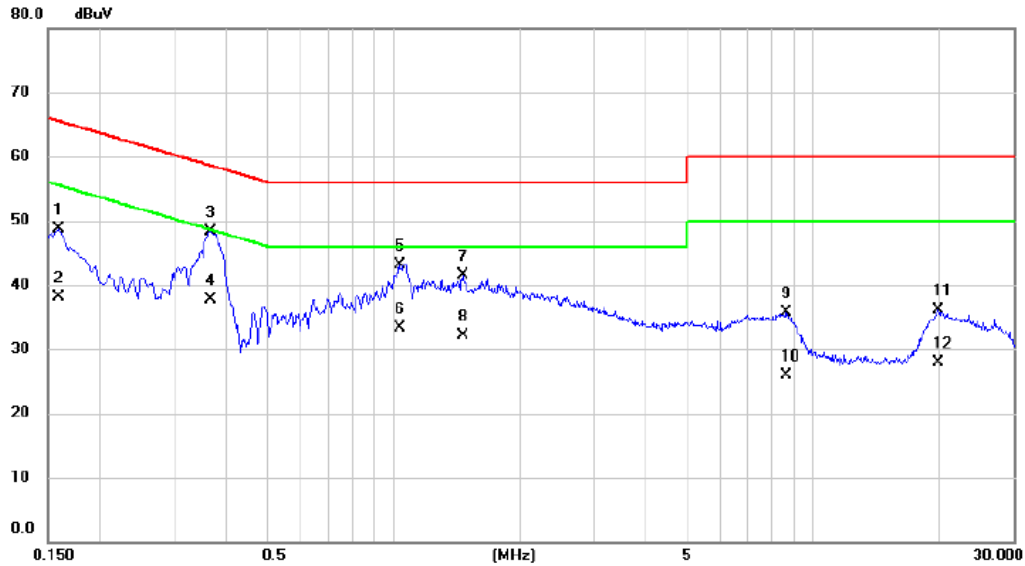


3.1.6 TEST RESULTS

Remark:

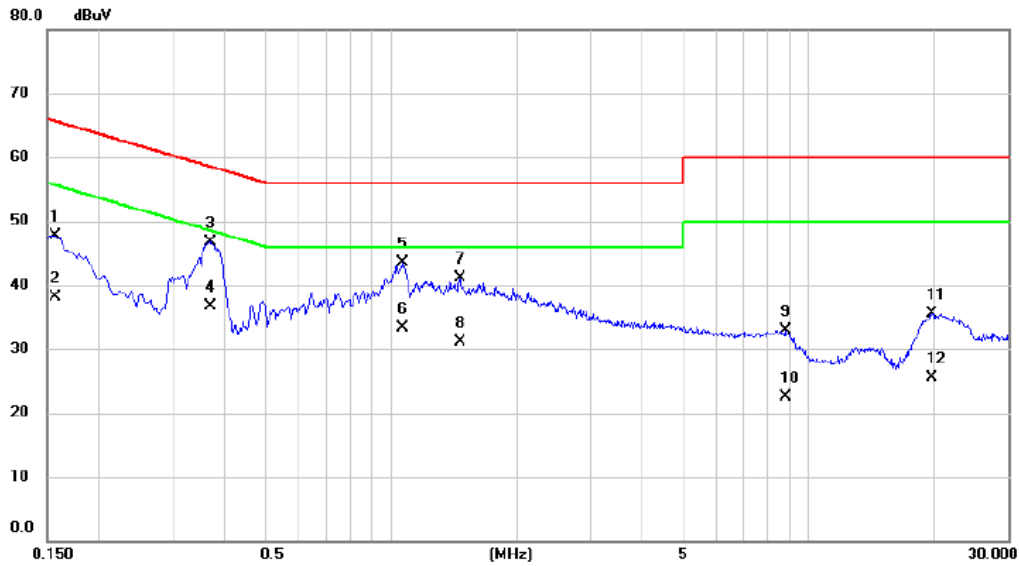
- (1) Reading in which marked as QP means measurements by using are Quasi-Peak Mode with Detector BW=9 kHz; SPA setting in RBW=10 kHz, VBW =10 kHz, Swp. Time = 0.3 sec./MHz. Reading in which marked as AV means measurements by using are Average Mode with instrument setting in RBW=10 kHz, VBW=10 kHz, Swp. Time =0.3 sec./MHz.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of 『Note』 . If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP & AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a “*” marked in AVG Mode column of Interference Voltage Measured.

Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	Mode 1		



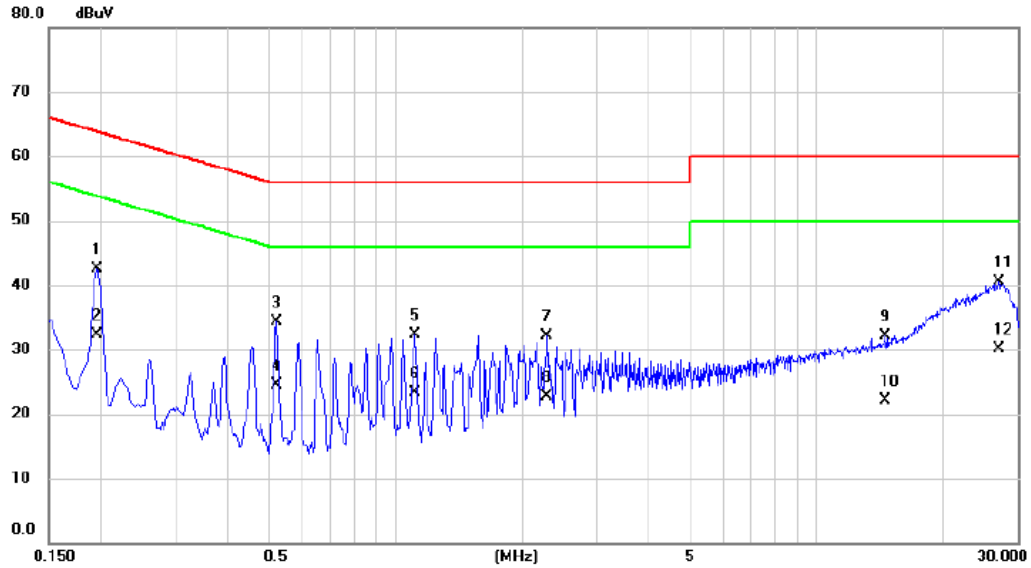
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1590	37.99	10.76	48.75	65.52	-16.77	QP	
2	0.1590	27.40	10.76	38.16	55.52	-17.36	AVG	
3 *	0.3660	37.62	10.66	48.28	58.59	-10.31	QP	
4	0.3660	27.10	10.66	37.76	48.59	-10.83	AVG	
5	1.0320	32.43	10.71	43.14	56.00	-12.86	QP	
6	1.0320	22.60	10.71	33.31	46.00	-12.69	AVG	
7	1.4618	30.75	10.76	41.51	56.00	-14.49	QP	
8	1.4618	21.30	10.76	32.06	46.00	-13.94	AVG	
9	8.6303	23.29	12.45	35.74	60.00	-24.26	QP	
10	8.6303	13.50	12.45	25.95	50.00	-24.05	AVG	
11	19.8870	20.11	16.07	36.18	60.00	-23.82	QP	
12	19.8870	11.80	16.07	27.87	50.00	-22.13	AVG	

Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	Mode 1		



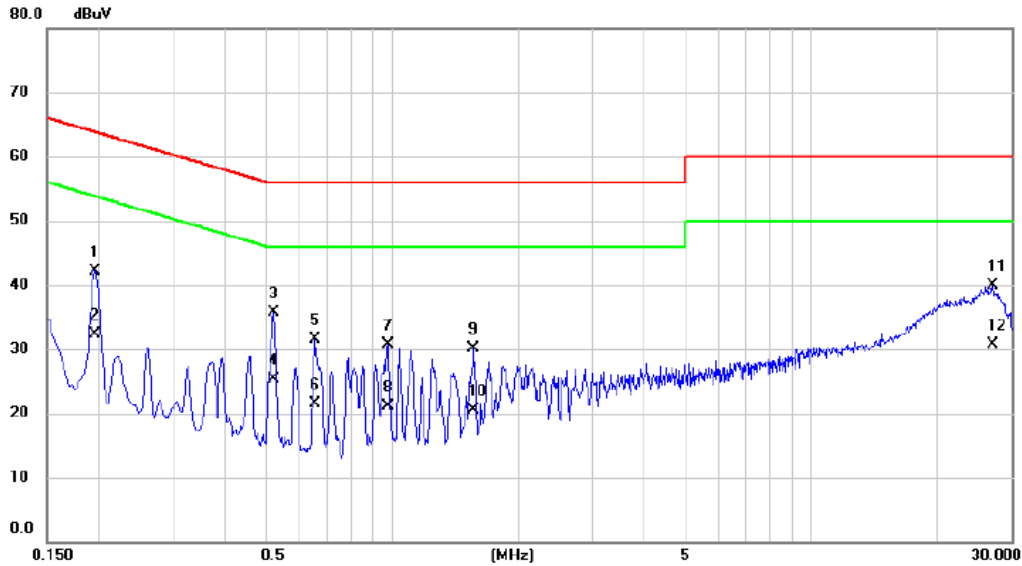
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1568	38.05	9.74	47.79	65.63	-17.84	QP	
2		0.1568	28.40	9.74	38.14	55.63	-17.49	AVG	
3	*	0.3704	36.99	9.81	46.80	58.49	-11.69	QP	
4		0.3704	26.90	9.81	36.71	48.49	-11.78	AVG	
5		1.0680	33.55	9.92	43.47	56.00	-12.53	QP	
6		1.0680	23.40	9.92	33.32	46.00	-12.68	AVG	
7		1.4595	31.11	9.97	41.08	56.00	-14.92	QP	
8		1.4595	21.10	9.97	31.07	46.00	-14.93	AVG	
9		8.7788	20.98	11.95	32.93	60.00	-27.07	QP	
10		8.7788	10.50	11.95	22.45	50.00	-27.55	AVG	
11		19.6440	20.24	15.34	35.58	60.00	-24.42	QP	
12		19.6440	10.10	15.34	25.44	50.00	-24.56	AVG	

Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	Mode 4		



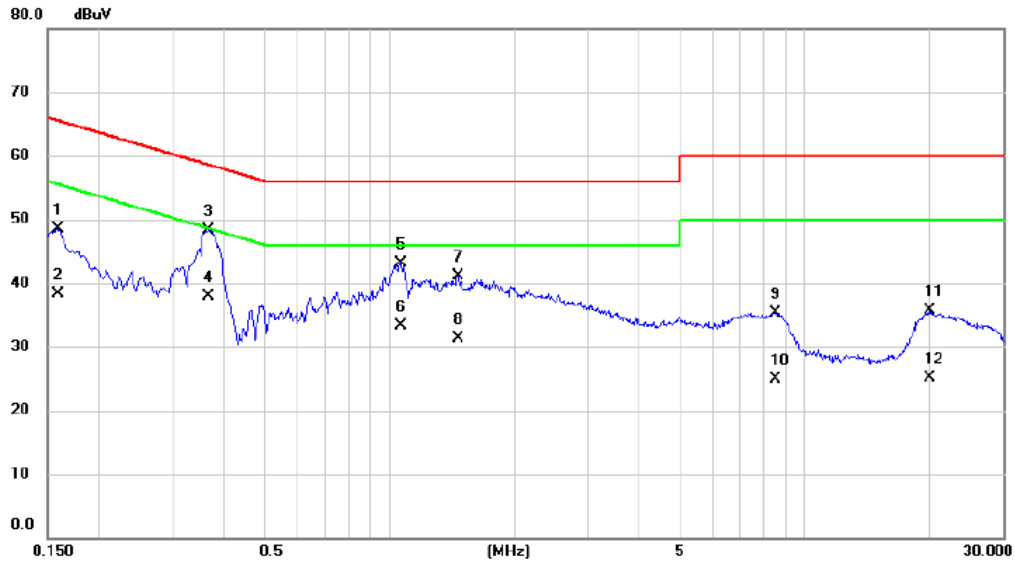
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1950	32.81	9.69	42.50	63.82	-21.32	QP	
2	0.1950	22.60	9.69	32.29	53.82	-21.53	AVG	
3	0.5212	24.49	9.73	34.22	56.00	-21.78	QP	
4	0.5212	14.70	9.73	24.43	46.00	-21.57	AVG	
5	1.1107	22.57	9.76	32.33	56.00	-23.67	QP	
6	1.1107	13.50	9.76	23.26	46.00	-22.74	AVG	
7	2.2875	22.30	9.82	32.12	56.00	-23.88	QP	
8	2.2875	12.80	9.82	22.62	46.00	-23.38	AVG	
9	14.5680	21.63	10.39	32.02	60.00	-27.98	QP	
10	14.5680	11.70	10.39	22.09	50.00	-27.91	AVG	
11 *	27.1163	29.68	10.73	40.41	60.00	-19.59	QP	
12	27.1163	19.40	10.73	30.13	50.00	-19.87	AVG	

Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	Mode 4		



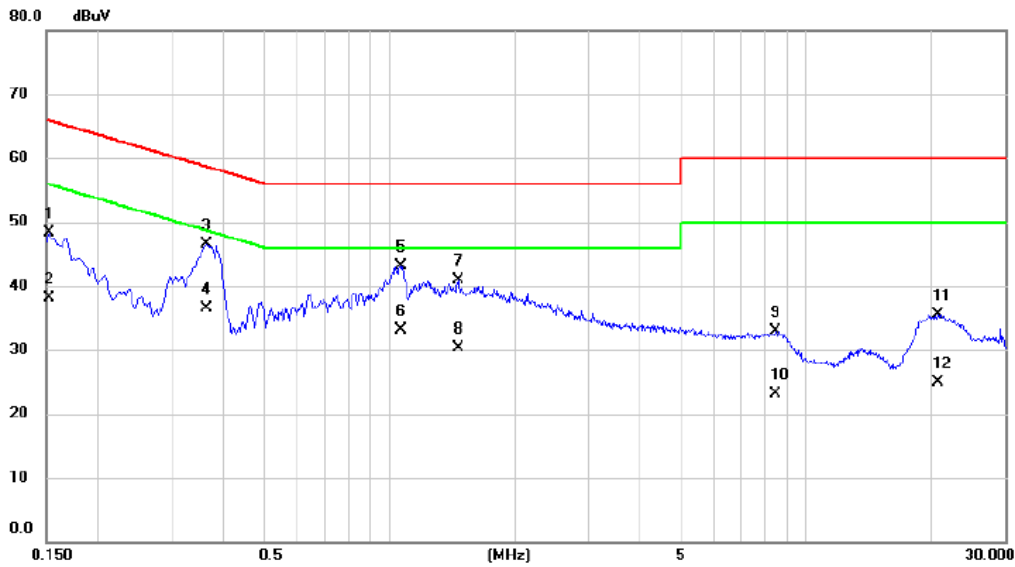
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV	Limit dBuV	Margin dB	Detector	Comment
1	0.1950	32.51	9.69	42.20	63.82	-21.62	QP	
2	0.1950	22.70	9.69	32.39	53.82	-21.43	AVG	
3	0.5212	25.92	9.73	35.65	56.00	-20.35	QP	
4	0.5212	15.60	9.73	25.33	46.00	-20.67	AVG	
5	0.6540	21.71	9.74	31.45	56.00	-24.55	QP	
6	0.6540	11.70	9.74	21.44	46.00	-24.56	AVG	
7	0.9757	21.02	9.76	30.78	56.00	-25.22	QP	
8	0.9757	11.30	9.76	21.06	46.00	-24.94	AVG	
9	1.5630	20.37	9.78	30.15	56.00	-25.85	QP	
10	1.5630	10.70	9.78	20.48	46.00	-25.52	AVG	
11	27.0510	29.12	10.84	39.96	60.00	-20.04	QP	
12 *	27.0510	19.80	10.84	30.64	50.00	-19.36	AVG	

Test Voltage	AC 120V/60Hz	Phase	Line
Test Mode	Mode 5		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	37.72	10.76	48.48	65.52	-17.04	QP	
2		0.1590	27.60	10.76	38.36	55.52	-17.16	AVG	
3	*	0.3660	37.59	10.66	48.25	58.59	-10.34	QP	
4		0.3660	27.20	10.66	37.86	48.59	-10.73	AVG	
5		1.0657	32.34	10.71	43.05	56.00	-12.95	QP	
6		1.0657	22.60	10.71	33.31	46.00	-12.69	AVG	
7		1.4595	30.29	10.76	41.05	56.00	-14.95	QP	
8		1.4595	20.60	10.76	31.36	46.00	-14.64	AVG	
9		8.5065	22.98	12.41	35.39	60.00	-24.61	QP	
10		8.5065	12.40	12.41	24.81	50.00	-25.19	AVG	
11		19.9455	19.59	16.08	35.67	60.00	-24.33	QP	
12		19.9455	9.10	16.08	25.18	50.00	-24.82	AVG	

Test Voltage	AC 120V/60Hz	Phase	Neutral
Test Mode	Mode 5		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1522	38.62	9.74	48.36	65.88	-17.52	QP	
2		0.1522	28.30	9.74	38.04	55.88	-17.84	AVG	
3		0.3636	36.67	9.81	46.48	58.65	-12.17	QP	
4	*	0.3636	26.70	9.81	36.51	48.65	-12.14	AVG	
5		1.0680	33.16	9.92	43.08	56.00	-12.92	QP	
6		1.0680	23.10	9.92	33.02	46.00	-12.98	AVG	
7		1.4595	30.89	9.97	40.86	56.00	-15.14	QP	
8		1.4595	20.40	9.97	30.37	46.00	-15.63	AVG	
9		8.4233	21.00	11.82	32.82	60.00	-27.18	QP	
10		8.4233	11.30	11.82	23.12	50.00	-26.88	AVG	
11		20.6408	19.99	15.47	35.46	60.00	-24.54	QP	
12		20.6408	9.40	15.47	24.87	50.00	-25.13	AVG	

3.2 RADIATED EMISSIONS 30 MHZ TO 1 GHZ

3.2.1 LIMIT

Frequency (MHz)	Class B (at 3m)	
	(μ V/m) Quasi-peak	(dB μ V/m) Quasi-peak
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
960 - 1000	500	54

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dB μ V/m) = 20log Emission level (μ V/m).
3m Emission level = 10m Emission level + 20log(10m/3m).
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

3.2.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Amplifier	EMC INSTRUMENT	EMC001330	980989	Nov. 17, 2024
2	Cable	RW	LMR-400(30MHz-1GHz)(10m+2.5m+0.8M)	N/A	Jul. 04, 2024
3	Controller	MF	MF-7802BS	N/A	N/A
4	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
5	EMI Test Receiver	Keysight	N9038A	MY56400060	Dec. 22, 2024
6	Trilog-Broadband Antenna	Schwarzbeck	VULB9168	946	Mar. 21, 2025
7	Attenuator	EMCI	EMCI-N-6-06	AT-N0671	Mar. 21, 2025

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

All calibration period of equipment list is one year.

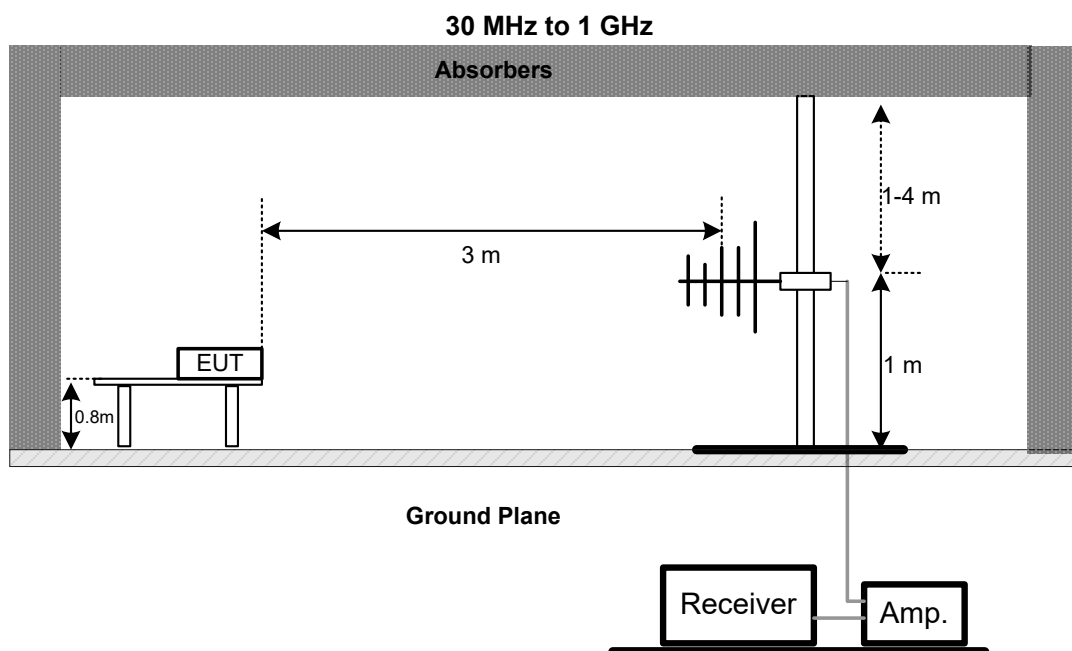
3.2.3 TEST PROCEDURE

- The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter 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 height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. 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 find the maximum reading (used Bore sight function).
- The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- For the actual test configuration, please refer to the related Item - EUT Test Photos.

3.2.4 DEVIATION FROM TEST STANDARD

No deviation

3.2.5 TEST SETUP

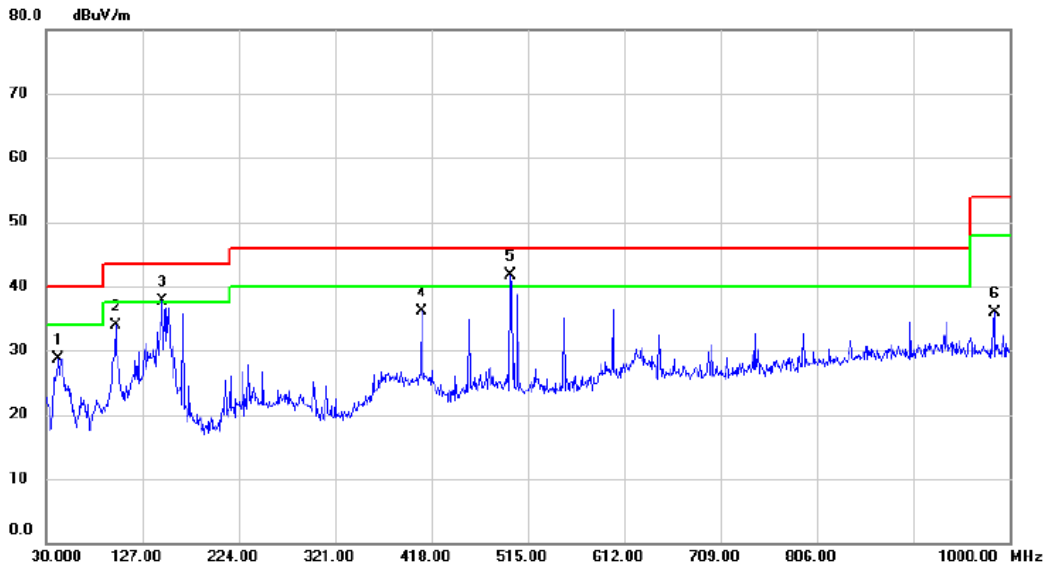


3.2.6 TEST RESULTS

Remark:

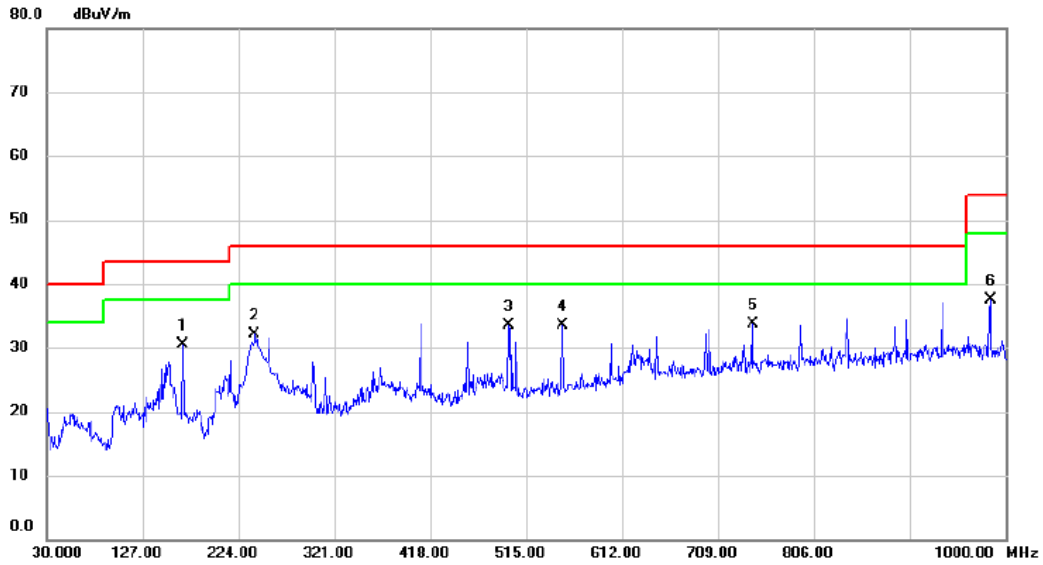
- Measuring frequency range from 30 MHz to 1000 MHz
- If the peak scan value lower limit more than 20 dB, then this signal data does not show in table.

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1		



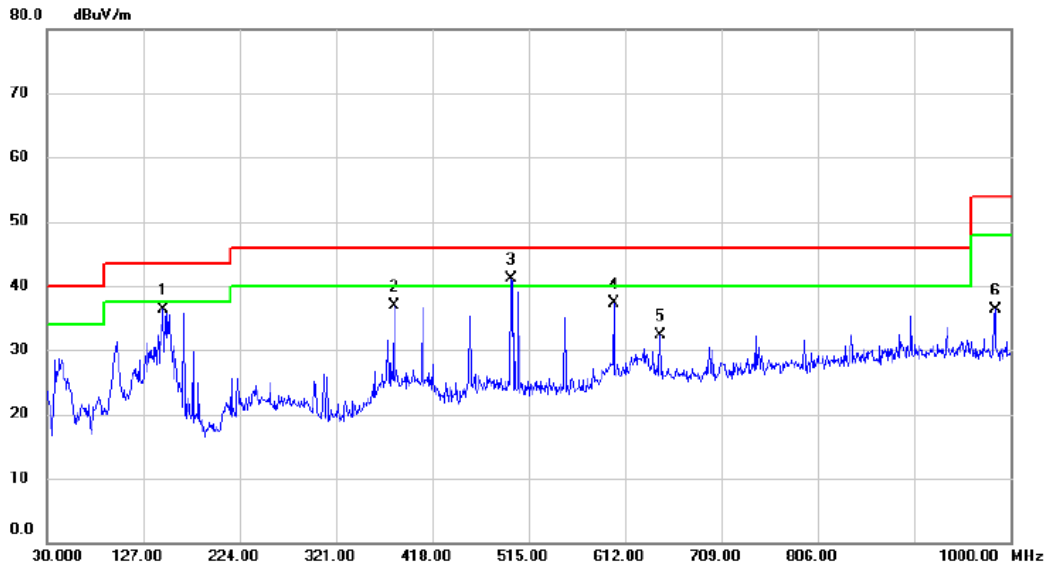
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		42.6100	42.69	-13.95	28.74	40.00	-11.26	QP	
2		99.8400	49.61	-15.65	33.96	43.50	-9.54	QP	
3	!	147.3700	49.76	-12.14	37.62	43.50	-5.88	QP	
4		408.3000	44.44	-8.27	36.17	46.00	-9.83	QP	
5	*	497.5400	47.82	-6.14	41.68	46.00	-4.32	QP	
6		984.4800	34.83	1.03	35.86	54.00	-18.14	QP	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1		



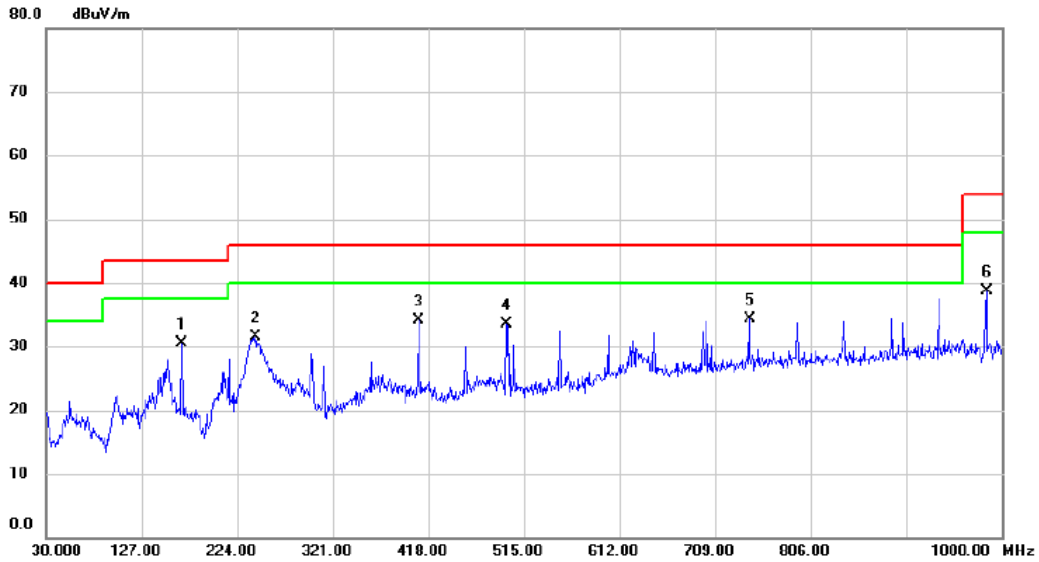
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		167.7400	42.00	-11.57	30.43	43.50	-13.07	QP	
2		240.4900	44.93	-12.81	32.12	46.00	-13.88	QP	
3		497.5400	39.73	-6.14	33.59	46.00	-12.41	QP	
4		551.8600	38.96	-5.40	33.56	46.00	-12.44	QP	
5	*	743.9200	35.27	-1.48	33.79	46.00	-12.21	QP	
6		984.4800	36.56	1.03	37.59	54.00	-16.41	QP	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 4		



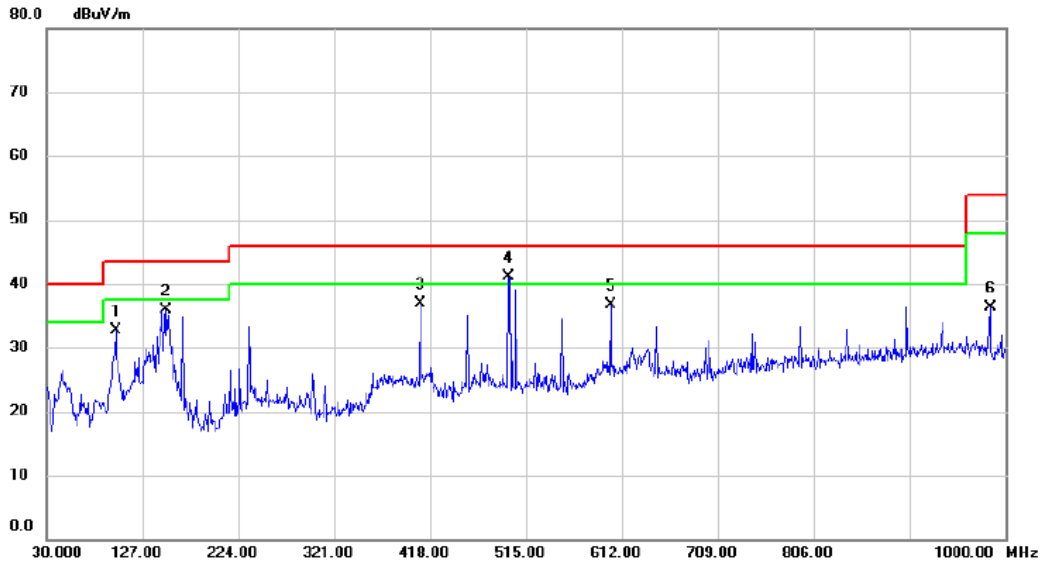
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		147.3700	48.41	-12.14	36.27	43.50	-7.23	QP	
2		379.2000	45.72	-8.88	36.84	46.00	-9.16	QP	
3	*	497.5400	47.23	-6.14	41.09	46.00	-4.91	QP	
4		600.3600	41.13	-3.76	37.37	46.00	-8.63	QP	
5		647.8900	35.49	-3.19	32.30	46.00	-13.70	QP	
6		984.4800	35.31	1.03	36.34	54.00	-17.66	QP	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 4		



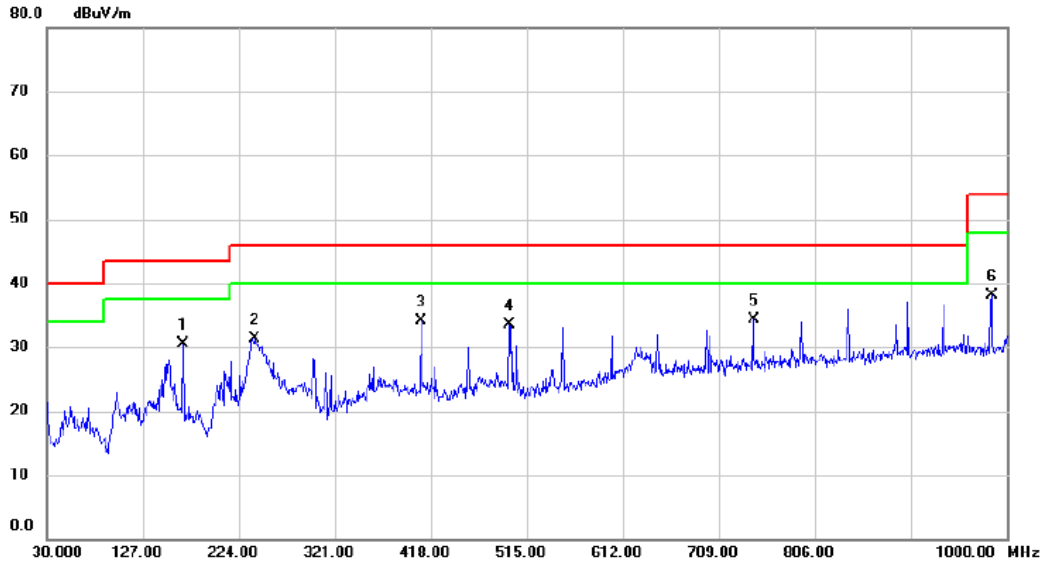
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		167.7400	42.12	-11.57	30.55	43.50	-12.95	QP	
2		242.4300	44.28	-12.77	31.51	46.00	-14.49	QP	
3		408.3000	42.30	-8.27	34.03	46.00	-11.97	QP	
4		497.5400	39.67	-6.14	33.53	46.00	-12.47	QP	
5	*	743.9200	35.79	-1.48	34.31	46.00	-11.69	QP	
6		984.4800	37.60	1.03	38.63	54.00	-15.37	QP	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 5		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		99.8400	48.35	-15.65	32.70	43.50	-10.80	QP	
2		150.2800	47.75	-11.93	35.82	43.50	-7.68	QP	
3		408.3000	45.11	-8.27	36.84	46.00	-9.16	QP	
4	*	497.5400	47.19	-6.14	41.05	46.00	-4.95	QP	
5		600.3600	40.45	-3.76	36.69	46.00	-9.31	QP	
6		984.4800	35.20	1.03	36.23	54.00	-17.77	QP	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 5		



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	167.7400	42.03	-11.57	30.46	43.50	-13.04	QP	
2	239.5200	44.27	-12.87	31.40	46.00	-14.60	QP	
3	408.3000	42.38	-8.27	34.11	46.00	-11.89	QP	
4	497.5400	39.63	-6.14	33.49	46.00	-12.51	QP	
5 *	743.9200	35.71	-1.48	34.23	46.00	-11.77	QP	
6	984.4800	37.07	1.03	38.10	54.00	-15.90	QP	

3.3 RADIATED EMISSIONS ABOVE 1 GHZ

3.3.1 LIMIT

Frequency (MHz)	Class B	
	(dB μ V/m) (at 3m)	
	Peak	Average
Above 1000	74	54

Frequency (MHz)	Class B	
	(dB μ V/m) (at 1m)	
	Peak	Average
Above 18000	83.5	63.5

FREQUENCY RANGE OF RADIATED MEASUREMENT (FOR UNINTENTIONAL RADIATORS)

Highest internal frequency (F _x)	Highest measurement frequency (F _M)
F _x ≤ 108 MHz	1 GHz
108 MHz < F _x ≤ 500 MHz	2 GHz
500 MHz < F _x ≤ 1 GHz	5 GHz
F _x > 1 GHz	5 x F _x up to a maximum of 40 GHz

Note: F_x is the highest fundamental frequency generated and/or used in the ITE or digital apparatus under test.

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) Emission level (dB μ V/m) = 20log Emission level (uV/m).
1m Emission level = 3m Emission level + 20log(3m/1m).
- (3) The test result calculated as following:
Measurement Value = Reading Level + Correct Factor
Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain(if use)
Margin Level = Measurement Value - Limit Value

3.3.2 MEASUREMENT INSTRUMENTS LIST

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	Double Ridged Guide Antenna	ETS-Lindgren	3115	75846	Mar. 20, 2025
2	Amplifier	EMC INSTRUMENT	EMC118A45SE	9801002	Nov. 17, 2024
3	Cable	RW	LMR-400(1GHz-18GHz)(1 2.5m+1M)	N/A	Mar. 25, 2025
4	Controller	MF	MF-7802BS	N/A	N/A
5	Measurement Software	Farad	EZ-EMC Ver.NB-03A1-01	N/A	N/A
6	EMI Test Receiver	Keysight	N9038A	MY56400060	Dec. 22, 2024
7	Low Noise Amplifier	CONNPHY	CLN-18G40G-4330-K	619413	Jul. 07, 2024
8	EXA Signal Analyzer	Keysight	N9010A	MY56480488	Dec. 22, 2024
9	Cable	RegalWay	RWLP50-2.6A-2.92M2.92 M-1.1M	N/A	Jul. 26, 2024
10	Cable	Tonscend	HF160-KMKM-3M	N/A	Jul. 26, 2024
11	Broad-Band Horn Antenna	Schwarzbeck	BBHA9170(3m)	9170-319	May 30 2024

Remark: "N/A" denotes no model name, no serial no. or no calibration specified.

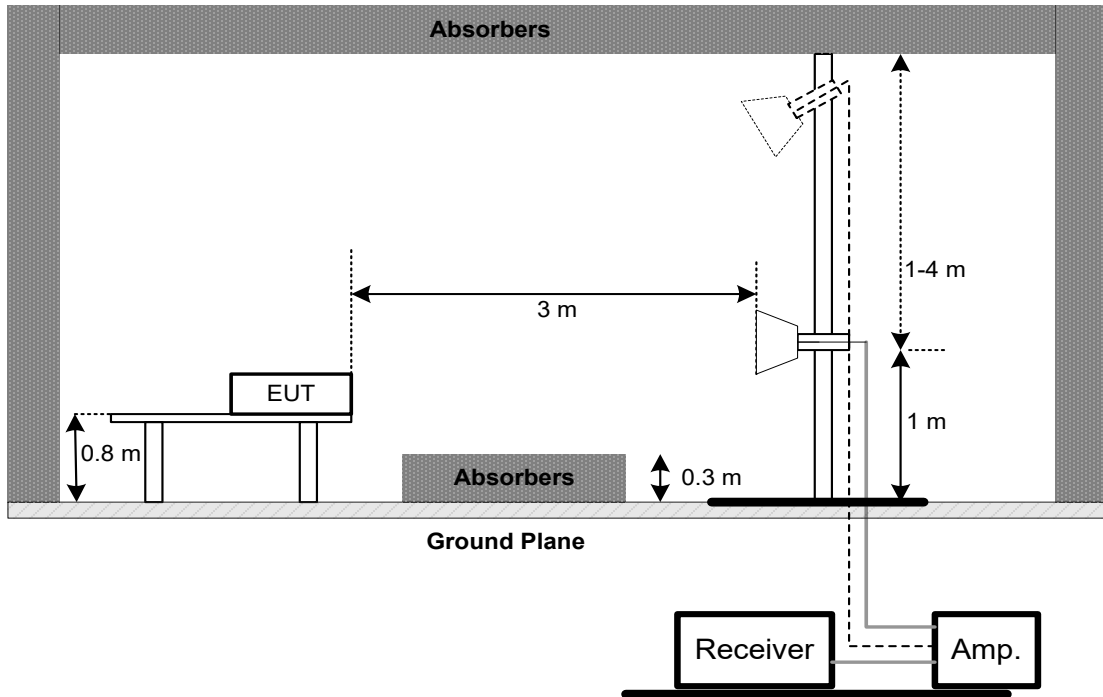
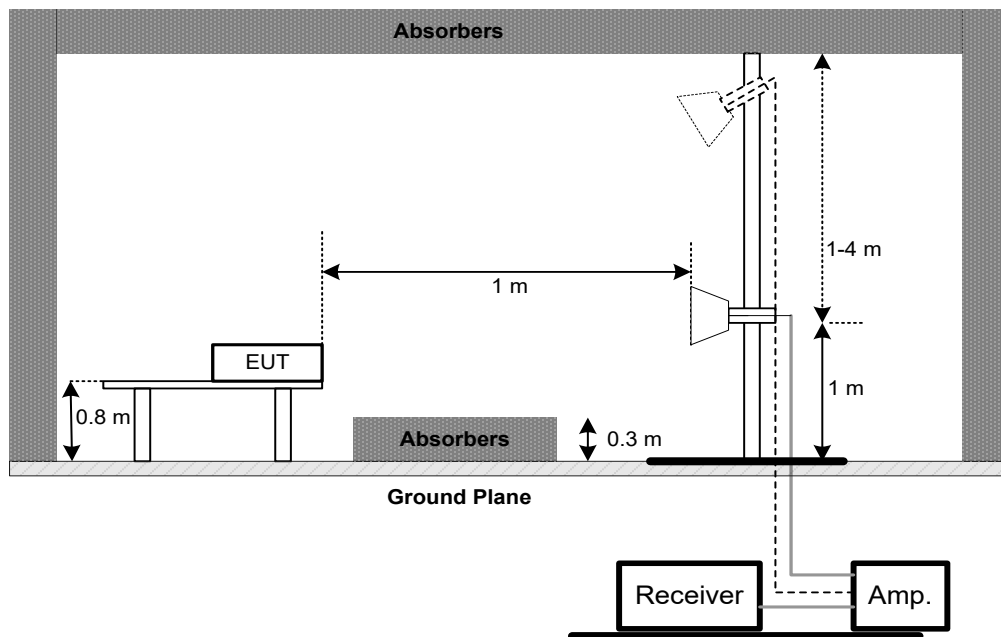
All calibration period of equipment list is one year.

3.3.3 TEST PROCEDURE

- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
Note:
For measurement of frequency 1GHz -18GHz, the EUT was set 3 meters away from the receiver antenna. For 18G - 40GHz, the EUT was set 1 meter.
Emission level (dBuV/m)=20log Emission level (uV/m).
The limits above 18GHz shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1m
Distance extrapolation factor = $20 \log (3m/1m)$ dB ;
Limit line = specific limits (dBuV) + 9.5 dB.
- b. The height of the equipment or of the substitution antenna shall be 0.8 m, the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- c. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- d. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then AVG detector mode re-measured.
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz.
- f. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform.
- g. For the actual test configuration, please refer to the related Item - EUT Test Photos.

3.3.4 DEVIATION FROM TEST STANDARD

No deviation

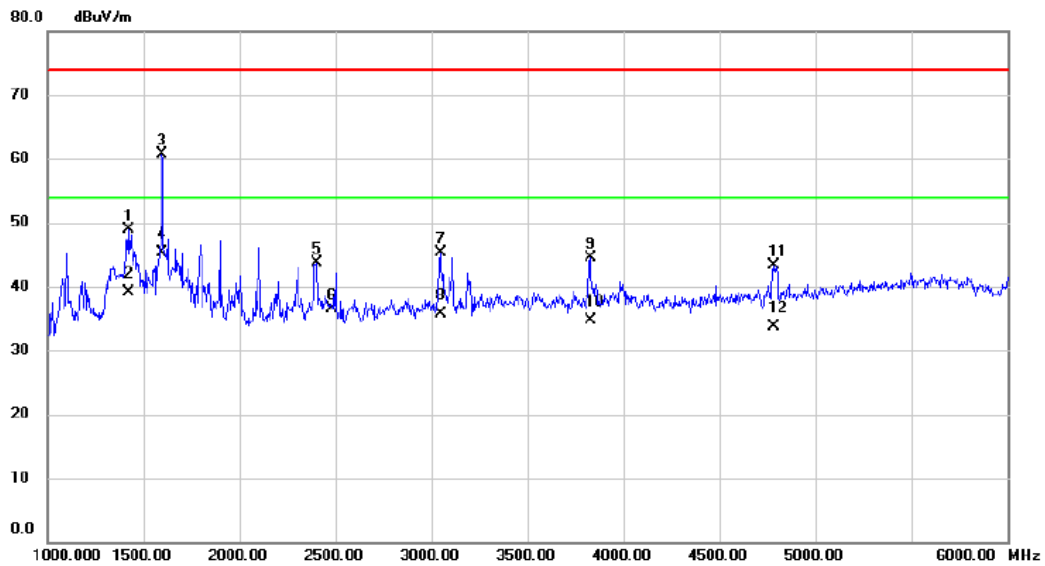
3.3.5 TEST SETUP**1 GHz-18 GHz****18 GHz-40 GHz**

3.3.6 TEST RESULTS

Remark:

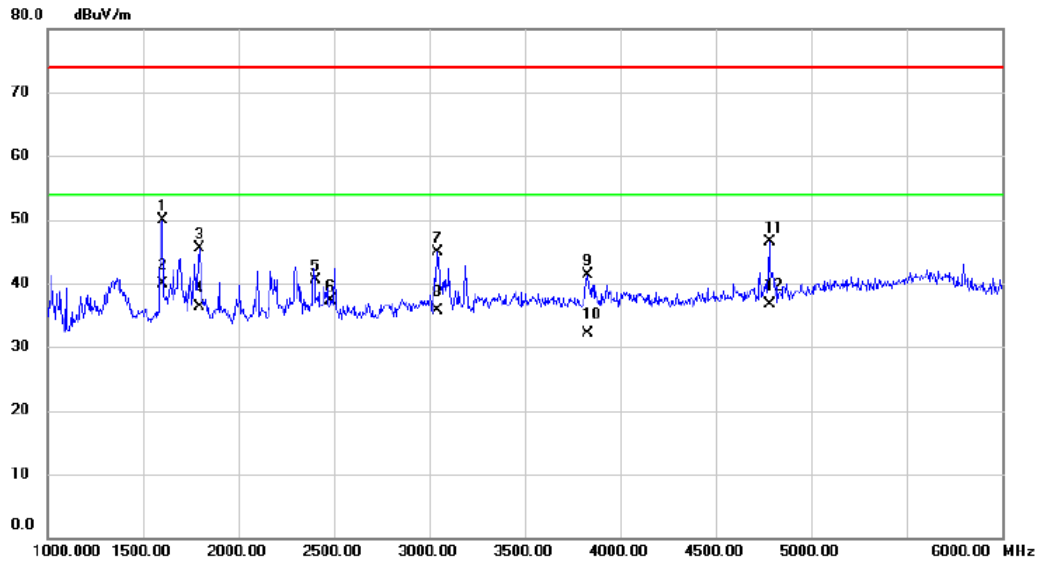
- (1) Radiated emissions measured in frequency range above 1000 MHz were made with an instrument using Peak detector mode and AV detector mode of the emission.
- (2) Data of measurement within this frequency range shown “*” in the table above means the reading of emissions are attenuated more than 20 dB below the permissible limits or the field strength is too small to be measured.
- (3) A preamp was used for this test in order to provide sufficient measurement sensitivity.

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1		
Note	2.4G WIFI(2400-2483.5MHz) is intentional transmissions, which is not applicable to the radiation emission requirements in this standard.		



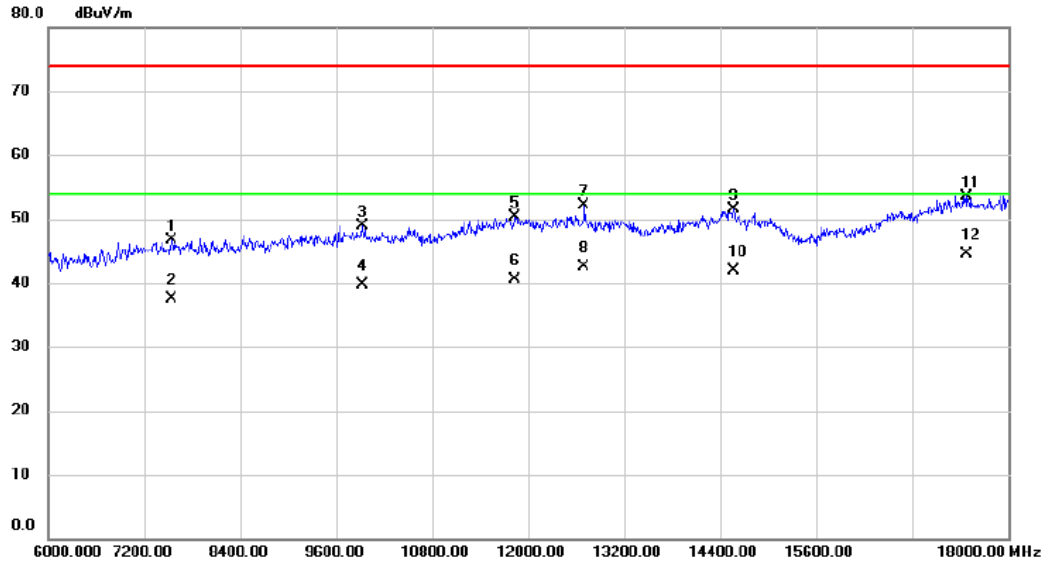
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	1420.000	54.71	-5.85	48.86	74.00	-25.14	peak	
2	1420.000	45.05	-5.85	39.20	54.00	-14.80	AVG	
3	1595.000	65.83	-5.06	60.77	74.00	-13.23	peak	
4 *	1595.000	50.45	-5.06	45.39	54.00	-8.61	AVG	
5	2400.000	46.75	-3.02	43.73	74.00	-30.27	peak	
6	2483.500	39.59	-3.00	36.59	74.00	-37.41	peak	
7	3047.500	45.77	-0.42	45.35	74.00	-28.65	peak	
8	3047.500	36.04	-0.42	35.62	54.00	-18.38	AVG	
9	3827.500	42.85	1.58	44.43	74.00	-29.57	peak	
10	3827.500	33.05	1.58	34.63	54.00	-19.37	AVG	
11	4782.500	40.55	2.66	43.21	74.00	-30.79	peak	
12	4782.500	31.05	2.66	33.71	54.00	-20.29	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1		
Note	2.4G WIFI(2400-2483.5MHz) is intentional transmissions, which is not applicable to the radiation emission requirements in this standard.		



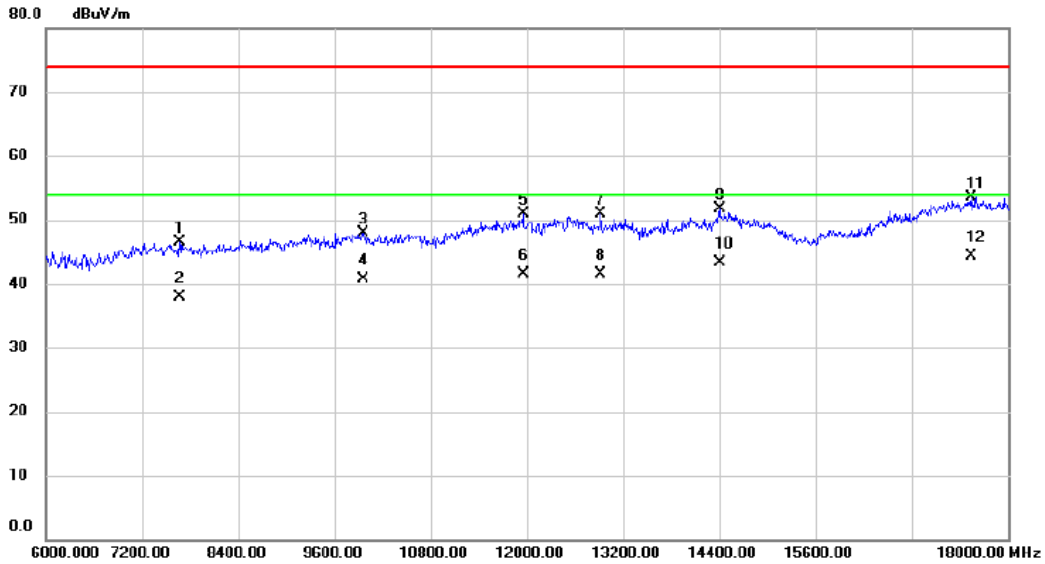
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1600.000	54.99	-5.04	49.95	74.00	-24.05	peak	
2	*	1600.000	45.04	-5.04	40.00	54.00	-14.00	AVG	
3		1795.000	49.68	-4.12	45.56	74.00	-28.44	peak	
4		1795.000	40.49	-4.12	36.37	54.00	-17.63	AVG	
5		2400.000	43.46	-3.02	40.44	74.00	-33.56	peak	
6		2483.500	40.38	-3.00	37.38	74.00	-36.62	peak	
7		3042.500	45.37	-0.43	44.94	74.00	-29.06	peak	
8		3042.500	36.05	-0.43	35.62	54.00	-18.38	AVG	
9		3832.500	39.72	1.60	41.32	74.00	-32.68	peak	
10		3832.500	30.45	1.60	32.05	54.00	-21.95	AVG	
11		4782.500	43.83	2.66	46.49	74.00	-27.51	peak	
12		4782.500	34.05	2.66	36.71	54.00	-17.29	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1		



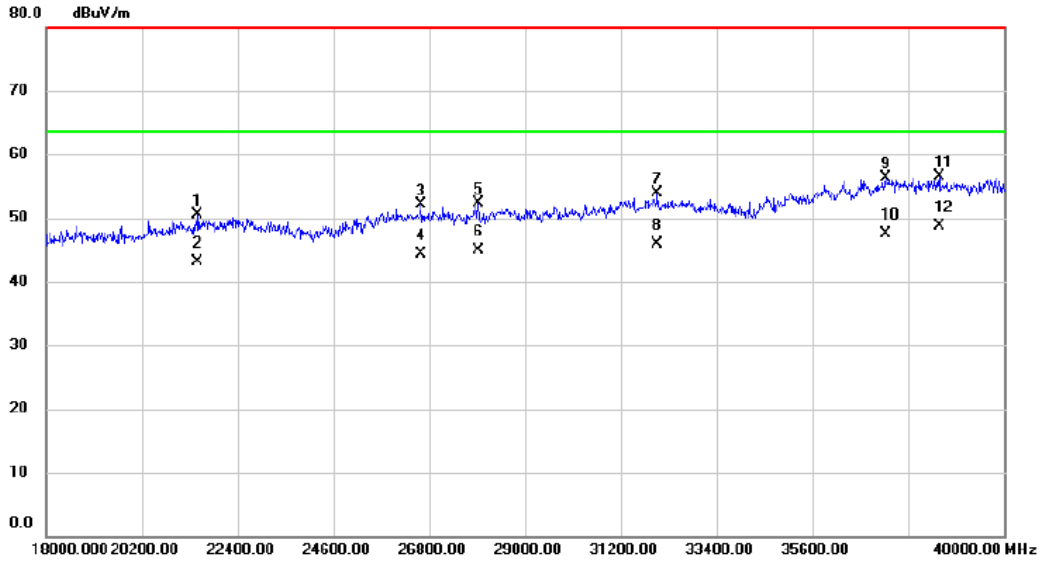
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7536.000	35.88	10.88	46.76	74.00	-27.24	peak	
2		7536.000	26.57	10.88	37.45	54.00	-16.55	AVG	
3		9924.000	37.27	11.65	48.92	74.00	-25.08	peak	
4		9924.000	28.14	11.65	39.79	54.00	-14.21	AVG	
5		11838.000	37.86	12.42	50.28	74.00	-23.72	peak	
6		11838.000	28.15	12.42	40.57	54.00	-13.43	AVG	
7		12696.000	39.77	12.29	52.06	74.00	-21.94	peak	
8		12696.000	30.14	12.29	42.43	54.00	-11.57	AVG	
9		14574.000	38.62	12.81	51.43	74.00	-22.57	peak	
10		14574.000	29.16	12.81	41.97	54.00	-12.03	AVG	
11		17472.000	39.68	13.86	53.54	74.00	-20.46	peak	
12	*	17472.000	30.66	13.86	44.52	54.00	-9.48	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1		



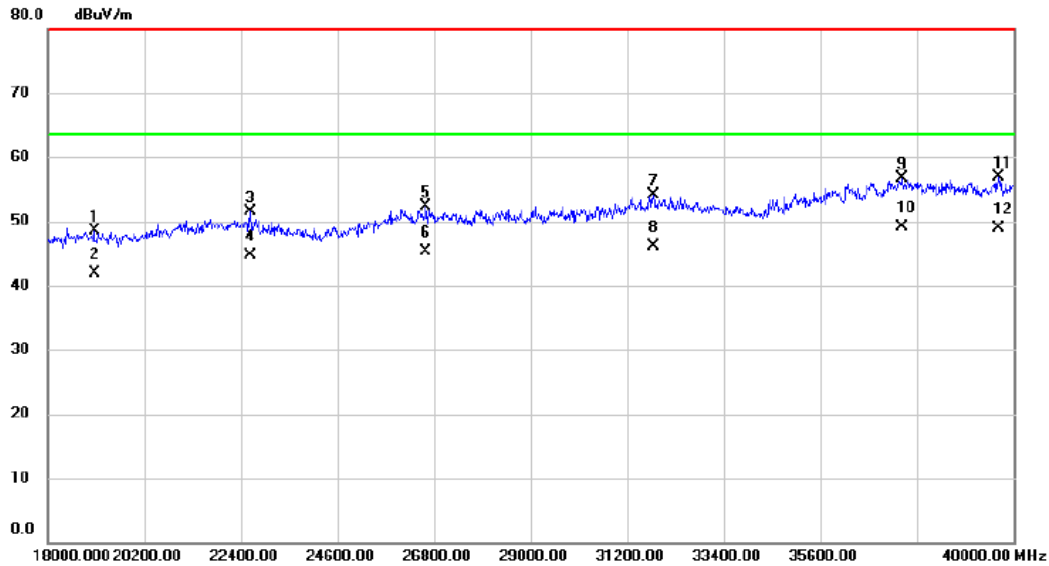
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7674.000	35.84	10.71	46.55	74.00	-27.45	peak	
2		7674.000	27.26	10.71	37.97	54.00	-16.03	AVG	
3		9960.000	36.23	11.69	47.92	74.00	-26.08	peak	
4		9960.000	28.93	11.69	40.62	54.00	-13.38	AVG	
5		11952.000	38.62	12.30	50.92	74.00	-23.08	peak	
6		11952.000	29.12	12.30	41.42	54.00	-12.58	AVG	
7		12918.000	38.66	12.29	50.95	74.00	-23.05	peak	
8		12918.000	29.23	12.29	41.52	54.00	-12.48	AVG	
9		14400.000	39.03	12.72	51.75	74.00	-22.25	peak	
10		14400.000	30.66	12.72	43.38	54.00	-10.62	AVG	
11		17538.000	39.76	13.83	53.59	74.00	-20.41	peak	
12	*	17538.000	30.57	13.83	44.40	54.00	-9.60	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 1		



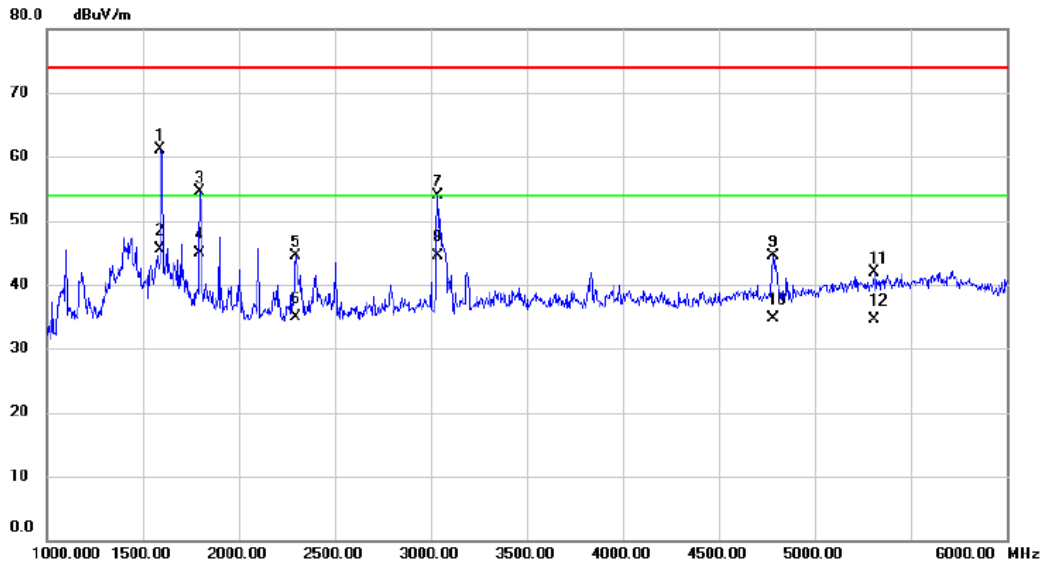
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		21481.50	41.91	8.65	50.56	83.50	-32.94	peak	
2		21481.50	34.53	8.65	43.18	63.50	-20.32	AVG	
3		26621.25	41.89	10.13	52.02	83.50	-31.48	peak	
4		26621.25	34.27	10.13	44.40	63.50	-19.10	AVG	
5		27924.75	42.70	9.61	52.31	83.50	-31.19	peak	
6		27924.75	35.27	9.61	44.88	63.50	-18.62	AVG	
7		32047.00	45.05	8.82	53.87	83.50	-29.63	peak	
8		32047.00	37.13	8.82	45.95	63.50	-17.55	AVG	
9		37274.75	45.90	10.39	56.29	83.50	-27.21	peak	
10		37274.75	37.12	10.39	47.51	63.50	-15.99	AVG	
11		38520.50	45.41	11.05	56.46	83.50	-27.04	peak	
12	*	38520.50	37.66	11.05	48.71	63.50	-14.79	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 1		



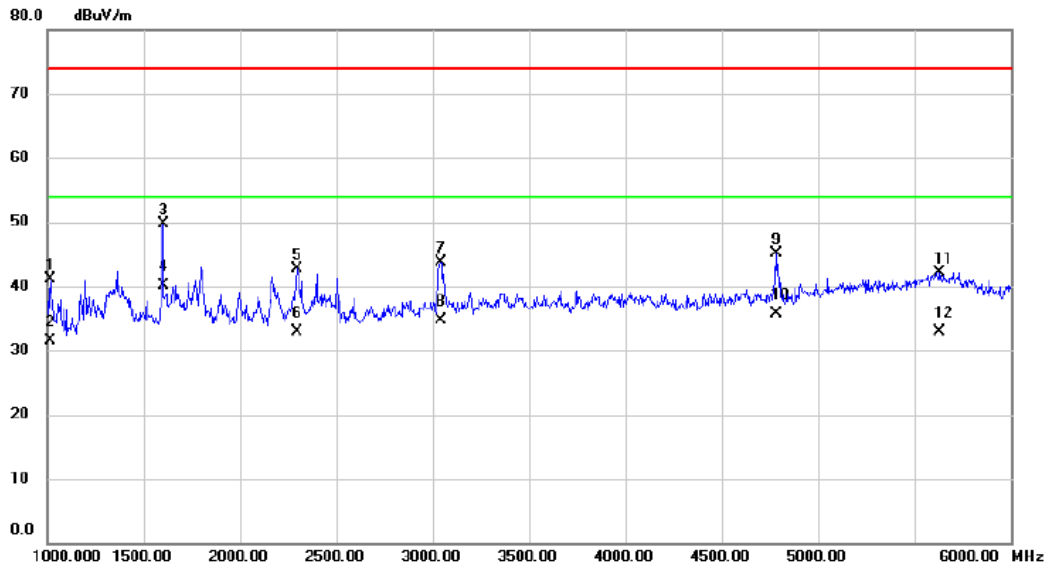
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		19061.50	41.39	7.21	48.60	83.50	-34.90	peak	
2		19061.50	34.68	7.21	41.89	63.50	-21.61	AVG	
3		22633.75	42.93	8.65	51.58	83.50	-31.92	peak	
4		22633.75	35.98	8.65	44.63	63.50	-18.87	AVG	
5		26610.25	42.08	10.14	52.22	83.50	-31.28	peak	
6		26610.25	35.12	10.14	45.26	63.50	-18.24	AVG	
7		31794.00	45.18	8.88	54.06	83.50	-29.44	peak	
8		31794.00	37.15	8.88	46.03	63.50	-17.47	AVG	
9		37453.50	46.25	10.54	56.79	83.50	-26.71	peak	
10	*	37453.50	38.63	10.54	49.17	63.50	-14.33	AVG	
11		39648.00	44.99	11.98	56.97	83.50	-26.53	peak	
12		39648.00	36.99	11.98	48.97	63.50	-14.53	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 4		



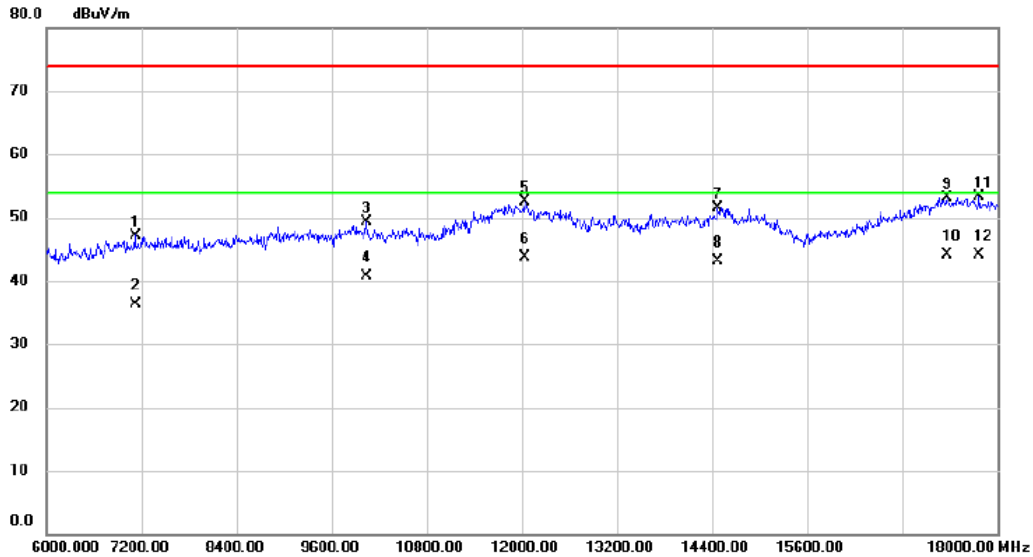
No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	1592.500	66.10	-5.08	61.02	74.00	-12.98	peak	
2 *	1592.500	50.55	-5.08	45.47	54.00	-8.53	AVG	
3	1797.500	58.56	-4.12	54.44	74.00	-19.56	peak	
4	1797.500	49.04	-4.12	44.92	54.00	-9.08	AVG	
5	2297.500	47.65	-3.06	44.59	74.00	-29.41	peak	
6	2297.500	38.05	-3.06	34.99	54.00	-19.01	AVG	
7	3037.500	54.35	-0.45	53.90	74.00	-20.10	peak	
8	3037.500	45.05	-0.45	44.60	54.00	-9.40	AVG	
9	4780.000	41.91	2.66	44.57	74.00	-29.43	peak	
10	4780.000	32.05	2.66	34.71	54.00	-19.29	AVG	
11	5310.000	37.50	4.47	41.97	74.00	-32.03	peak	
12	5310.000	30.12	4.47	34.59	54.00	-19.41	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 4		



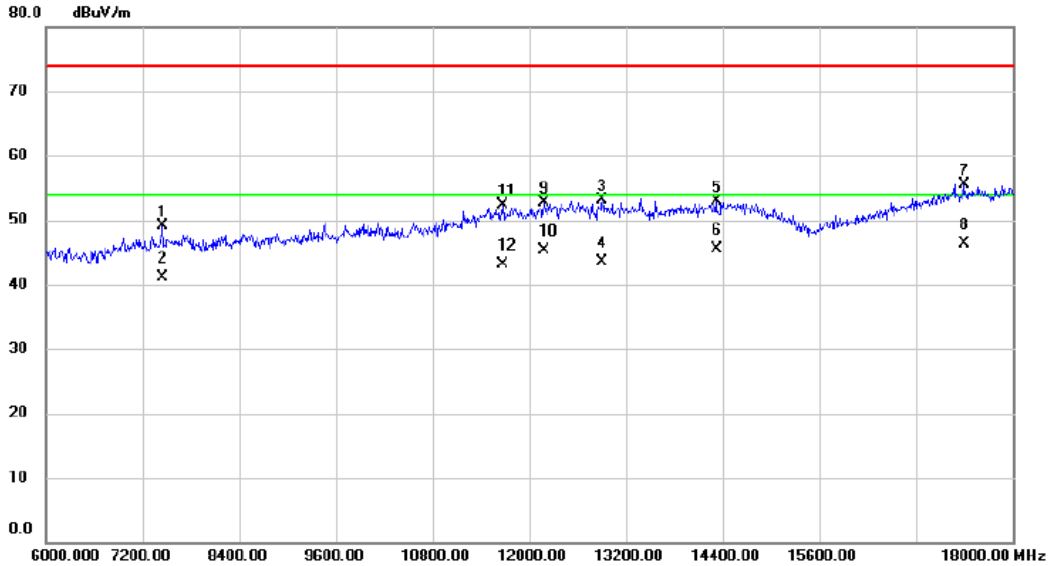
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1017.500	48.63	-7.49	41.14	74.00	-32.86	peak	
2		1017.500	39.04	-7.49	31.55	54.00	-22.45	AVG	
3		1600.000	54.65	-5.04	49.61	74.00	-24.39	peak	
4	*	1600.000	45.05	-5.04	40.01	54.00	-13.99	AVG	
5		2295.000	45.81	-3.06	42.75	74.00	-31.25	peak	
6		2295.000	36.05	-3.06	32.99	54.00	-21.01	AVG	
7		3042.500	44.12	-0.43	43.69	74.00	-30.31	peak	
8		3042.500	35.05	-0.43	34.62	54.00	-19.38	AVG	
9		4780.000	42.44	2.66	45.10	74.00	-28.90	peak	
10		4780.000	33.04	2.66	35.70	54.00	-18.30	AVG	
11		5632.500	36.81	5.36	42.17	74.00	-31.83	peak	
12		5632.500	27.54	5.36	32.90	54.00	-21.10	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 4		



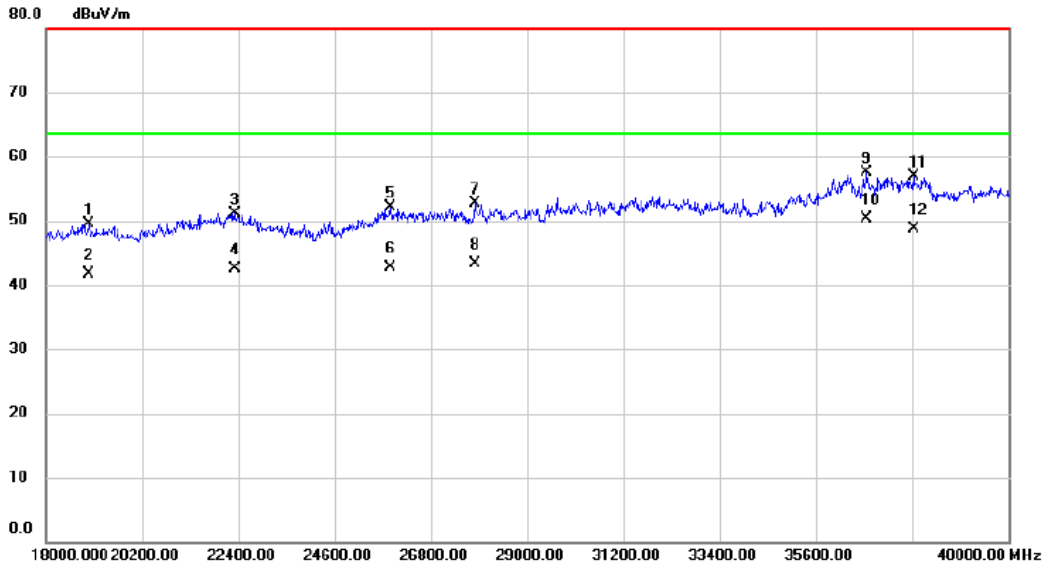
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7122.000	36.75	10.45	47.20	74.00	-26.80	peak	
2		7122.000	25.77	10.45	36.22	54.00	-17.78	AVG	
3		10032.00	37.56	11.70	49.26	74.00	-24.74	peak	
4		10032.00	28.94	11.70	40.64	54.00	-13.36	AVG	
5		12042.00	40.16	12.25	52.41	74.00	-21.59	peak	
6		12042.00	31.52	12.25	43.77	54.00	-10.23	AVG	
7		14478.00	38.60	12.99	51.59	74.00	-22.41	peak	
8		14478.00	30.14	12.99	43.13	54.00	-10.87	AVG	
9		17364.00	39.41	13.76	53.17	74.00	-20.83	peak	
10		17364.00	30.25	13.76	44.01	54.00	-9.99	AVG	
11		17772.00	39.83	13.49	53.32	74.00	-20.68	peak	
12	*	17772.00	30.55	13.49	44.04	54.00	-9.96	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 4		



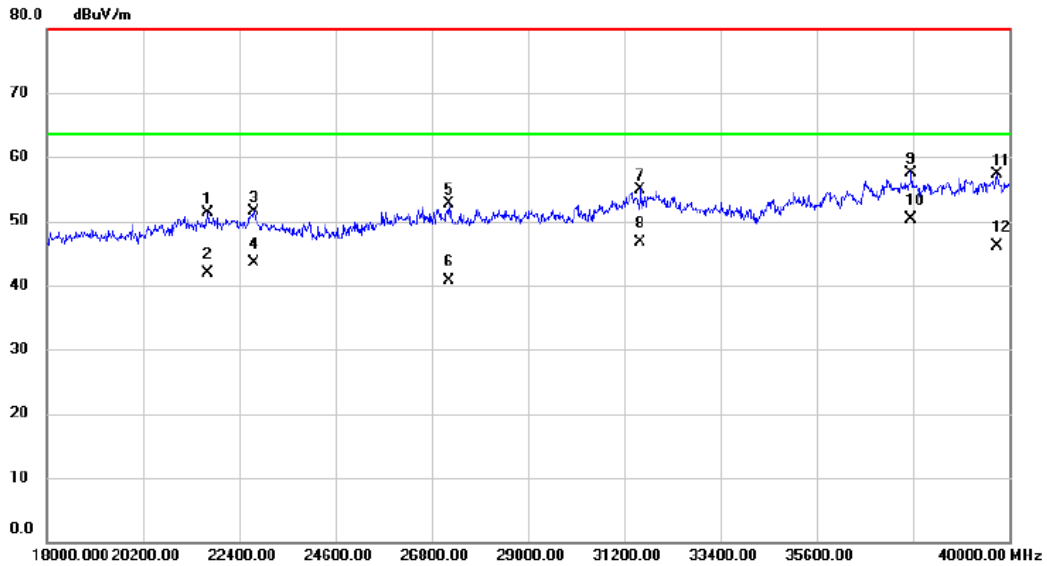
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7446.000	38.28	10.85	49.13	74.00	-24.87	peak	
2		7446.000	30.24	10.85	41.09	54.00	-12.91	AVG	
3		12906.00	40.86	12.30	53.16	74.00	-20.84	peak	
4		12906.00	31.11	12.30	43.41	54.00	-10.59	AVG	
5		14322.00	40.38	12.46	52.84	74.00	-21.16	peak	
6		14322.00	32.96	12.46	45.42	54.00	-8.58	AVG	
7		17394.00	41.65	13.80	55.45	74.00	-18.55	peak	
8	*	17394.00	32.54	13.80	46.34	54.00	-7.66	AVG	
9		12186.00	40.51	12.26	52.77	74.00	-21.23	peak	
10		12186.00	33.01	12.26	45.27	54.00	-8.73	AVG	
11		11676.00	39.63	12.58	52.21	74.00	-21.79	peak	
12		11676.00	30.52	12.58	43.10	54.00	-10.90	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 4		



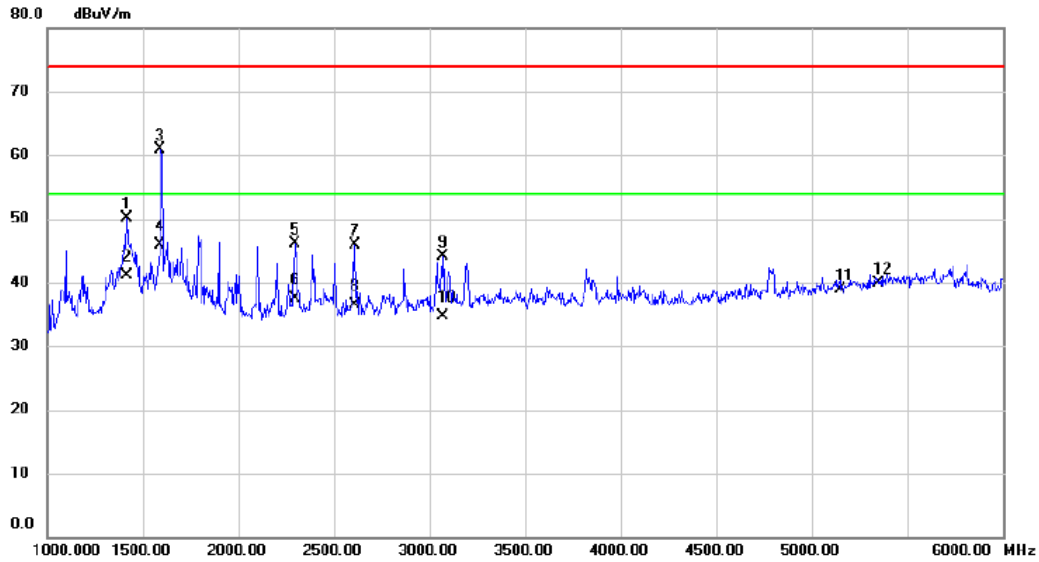
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		18995.50	42.29	7.22	49.51	83.50	-33.99	peak	
2		18995.50	34.51	7.22	41.73	63.50	-21.77	AVG	
3		22328.50	42.27	8.78	51.05	83.50	-32.45	peak	
4		22328.50	33.68	8.78	42.46	63.50	-21.04	AVG	
5		25873.25	41.91	10.28	52.19	83.50	-31.31	peak	
6		25873.25	32.41	10.28	42.69	63.50	-20.81	AVG	
7		27803.75	42.99	9.66	52.65	83.50	-30.85	peak	
8		27803.75	33.67	9.66	43.33	63.50	-20.17	AVG	
9		36766.00	47.42	10.10	57.52	83.50	-25.98	peak	
10	*	36766.00	40.17	10.10	50.27	63.50	-13.23	AVG	
11		37841.25	46.12	10.76	56.88	83.50	-26.62	peak	
12		37841.25	37.98	10.76	48.74	63.50	-14.76	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 4		



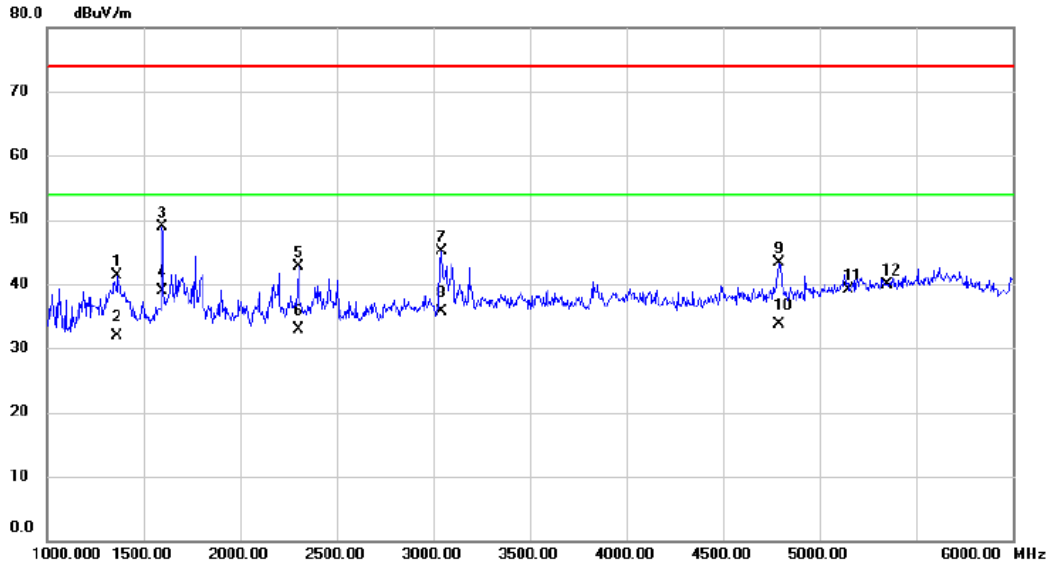
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		21685.00	42.53	8.73	51.26	83.50	-32.24	peak	
2		21685.00	33.14	8.73	41.87	63.50	-21.63	AVG	
3		22732.75	43.00	8.58	51.58	83.50	-31.92	peak	
4		22732.75	34.85	8.58	43.43	63.50	-20.07	AVG	
5		27190.50	42.90	9.82	52.72	83.50	-30.78	peak	
6		27190.50	30.96	9.82	40.78	63.50	-22.72	AVG	
7		31574.00	46.10	8.90	55.00	83.50	-28.50	peak	
8		31574.00	37.88	8.90	46.78	63.50	-16.72	AVG	
9		37758.75	46.89	10.71	57.60	83.50	-25.90	peak	
10	*	37758.75	39.52	10.71	50.23	63.50	-13.27	AVG	
11		39727.75	45.29	12.02	57.31	83.50	-26.19	peak	
12		39727.75	34.17	12.02	46.19	63.50	-17.31	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 5		



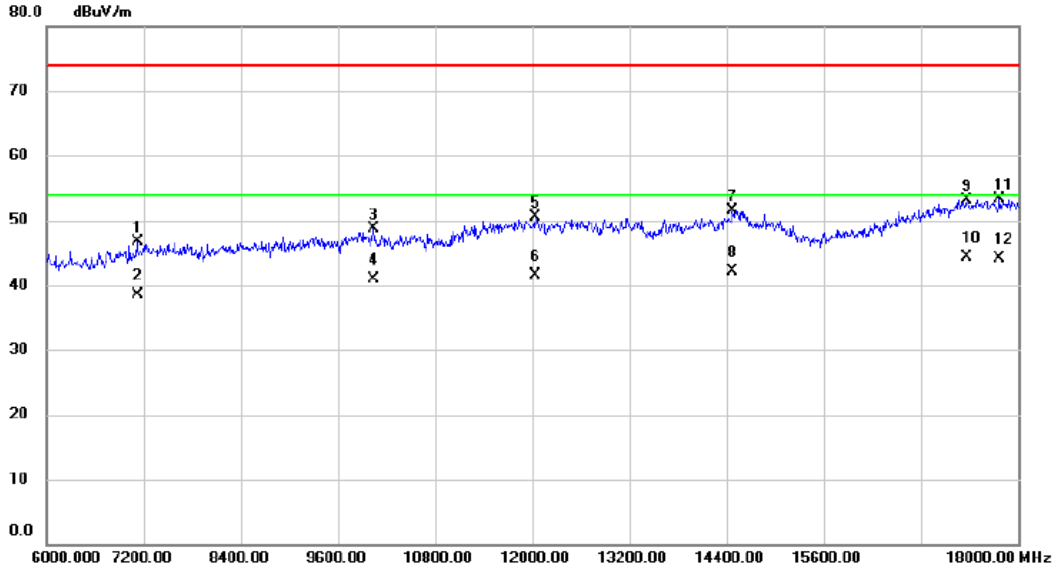
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		1415.000	56.03	-5.87	50.16	74.00	-23.84	peak	
2		1415.000	47.04	-5.87	41.17	54.00	-12.83	AVG	
3		1592.500	66.06	-5.08	60.98	74.00	-13.02	peak	
4	*	1592.500	51.02	-5.08	45.94	54.00	-8.06	AVG	
5		2295.000	49.18	-3.06	46.12	74.00	-27.88	peak	
6		2295.000	40.49	-3.06	37.43	54.00	-16.57	AVG	
7		2610.000	48.31	-2.45	45.86	74.00	-28.14	peak	
8		2610.000	39.00	-2.45	36.55	54.00	-17.45	AVG	
9		3072.500	44.36	-0.35	44.01	74.00	-29.99	peak	
10		3072.500	35.05	-0.35	34.70	54.00	-19.30	AVG	
11		5150.000	35.18	3.80	38.98	74.00	-35.02	peak	
12		5350.000	35.24	4.63	39.87	74.00	-34.13	peak	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 5		



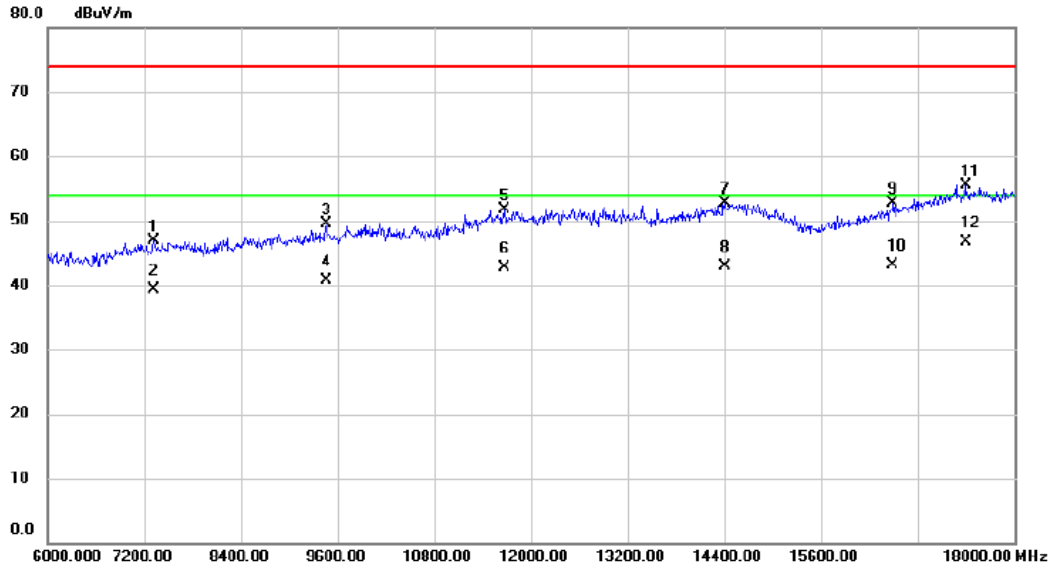
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1		1365.000	47.39	-6.07	41.32	74.00	-32.68	peak	
2		1365.000	38.04	-6.07	31.97	54.00	-22.03	AVG	
3		1595.000	53.89	-5.06	48.83	74.00	-25.17	peak	
4	*	1595.000	44.05	-5.06	38.99	54.00	-15.01	AVG	
5		2300.000	45.78	-3.05	42.73	74.00	-31.27	peak	
6		2300.000	36.01	-3.05	32.96	54.00	-21.04	AVG	
7		3045.000	45.58	-0.43	45.15	74.00	-28.85	peak	
8		3045.000	36.08	-0.43	35.65	54.00	-18.35	AVG	
9		4792.500	40.67	2.70	43.37	74.00	-30.63	peak	
10		4792.500	31.04	2.70	33.74	54.00	-20.26	AVG	
11		5150.000	35.31	3.80	39.11	74.00	-34.89	peak	
12		5350.000	35.18	4.63	39.81	74.00	-34.19	peak	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 5		



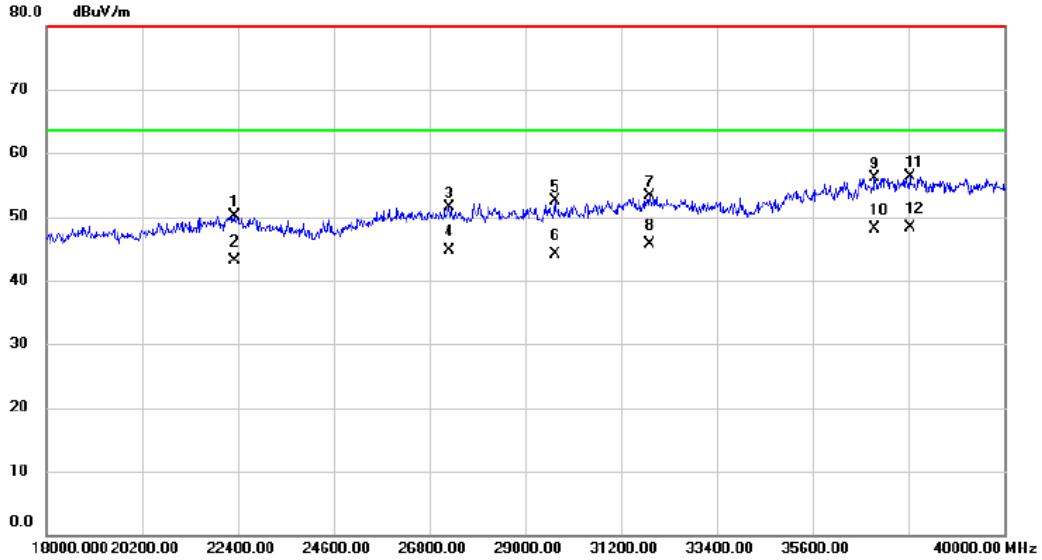
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7122.00	36.25	10.45	46.70	74.00	-27.30	peak	
2		7122.00	28.15	10.45	38.60	54.00	-15.40	AVG	
3		10032.00	37.06	11.70	48.76	74.00	-25.24	peak	
4		10032.00	29.13	11.70	40.83	54.00	-13.17	AVG	
5		12042.00	38.16	12.25	50.41	74.00	-23.59	peak	
6		12042.00	29.33	12.25	41.58	54.00	-12.42	AVG	
7		14478.00	38.60	12.99	51.59	74.00	-22.41	peak	
8		14478.00	29.10	12.99	42.09	54.00	-11.91	AVG	
9		17364.00	39.41	13.76	53.17	74.00	-20.83	peak	
10	*	17364.00	30.55	13.76	44.31	54.00	-9.69	AVG	
11		17772.00	39.83	13.49	53.32	74.00	-20.68	peak	
12		17772.00	30.63	13.49	44.12	54.00	-9.88	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 5		



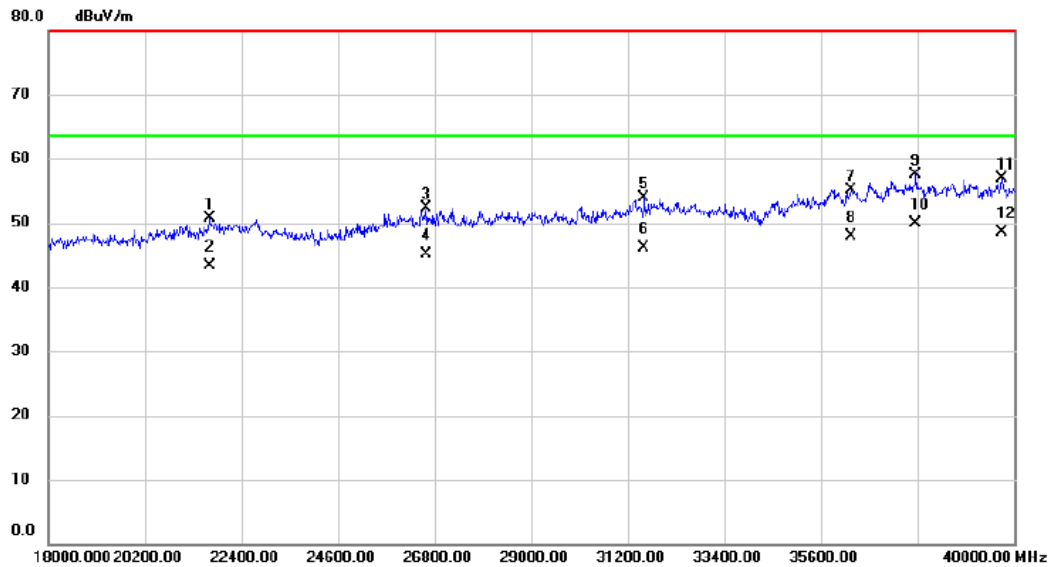
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		7320.000	36.20	10.70	46.90	74.00	-27.10	peak	
2		7320.000	28.56	10.70	39.26	54.00	-14.74	AVG	
3		9462.000	38.29	11.13	49.42	74.00	-24.58	peak	
4		9462.000	29.49	11.13	40.62	54.00	-13.38	AVG	
5		11676.000	39.13	12.58	51.71	74.00	-22.29	peak	
6		11676.000	30.16	12.58	42.74	54.00	-11.26	AVG	
7		14406.000	39.93	12.74	52.67	74.00	-21.33	peak	
8		14406.000	30.13	12.74	42.87	54.00	-11.13	AVG	
9		16488.000	40.88	11.82	52.70	74.00	-21.30	peak	
10		16488.000	31.23	11.82	43.05	54.00	-10.95	AVG	
11		17394.000	41.65	13.80	55.45	74.00	-18.55	peak	
12	*	17394.000	32.96	13.80	46.76	54.00	-7.24	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Vertical
Test Mode	Mode 5		



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1	22328.50	41.27	8.78	50.05	83.50	-33.45	peak	
2	22328.50	34.26	8.78	43.04	63.50	-20.46	AVG	
3	27251.00	41.60	9.81	51.41	83.50	-32.09	peak	
4	27251.00	34.98	9.81	44.79	63.50	-18.71	AVG	
5	29676.50	43.53	8.91	52.44	83.50	-31.06	peak	
6	29676.50	35.13	8.91	44.04	63.50	-19.46	AVG	
7	31865.50	44.43	8.87	53.30	83.50	-30.20	peak	
8	31865.50	36.93	8.87	45.80	63.50	-17.70	AVG	
9	37030.00	45.93	10.20	56.13	83.50	-27.37	peak	
10	37030.00	37.96	10.20	48.16	63.50	-15.34	AVG	
11	37841.25	45.62	10.76	56.38	83.50	-27.12	peak	
12 *	37841.25	37.62	10.76	48.38	63.50	-15.12	AVG	

Test Voltage	AC 120V/60Hz	Polarization	Horizontal
Test Mode	Mode 5		



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Margin dB	Detector	Comment
1		21685.00	42.03	8.73	50.76	83.50	-32.74	peak	
2		21685.00	34.57	8.73	43.30	63.50	-20.20	AVG	
3		26615.75	42.15	10.14	52.29	83.50	-31.21	peak	
4		26615.75	34.98	10.14	45.12	63.50	-18.38	AVG	
5		31574.00	45.10	8.90	54.00	83.50	-29.50	peak	
6		31574.00	37.26	8.90	46.16	63.50	-17.34	AVG	
7		36287.50	45.19	9.92	55.11	83.50	-28.39	peak	
8		36287.50	37.98	9.92	47.90	63.50	-15.60	AVG	
9		37758.75	46.89	10.71	57.60	83.50	-25.90	peak	
10	*	37758.75	39.13	10.71	49.84	63.50	-13.66	AVG	
11		39727.75	44.79	12.02	56.81	83.50	-26.69	peak	
12		39727.75	36.46	12.02	48.48	63.50	-15.02	AVG	

End of Test Report