




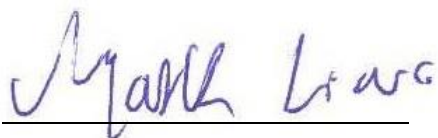
FCC RADIO TEST REPORT

Applicant : Elo Touch Solutions, Inc.
Address : 670 N. McCarthy Blvd., Suite 100 Milpitas, CA
95035 USA
Equipment : Computer Box
Model No. : ESY0011
Trade Name : Elo or 
FCC ID : RBWESY0011

I HEREBY CERTIFY THAT :

The sample was received on Apr. 23, 2021 and the testing was completed on Sep. 28, 2022 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:



Mark Liao / Supervisor

Laboratory Accreditation:

CerpPASS Technology Corporation Test Laboratory





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History of this test report

Report No.	Issued Date	Description
21040237-TRFCC05	Oct. 07, 2022	Original



1. Summary of Test Procedure and Test Results

1.1 Applicable Standards

ANSI C63.10:2013

Description of Test	Result
CO-LOCATION	PASS

*The lab has reduced the uncertainty risk factor from test equipment, environment and staff technicians which according to the standard on contract. Therefore, the test result will only be determined by standard requirement.



2. Test Configuration of Equipment under Test

2.1 Feature of Equipment under Test

Operation Frequency Range	BT / BLE: 2400-2483.5MHz 802.11b/g/n: 2400-2483.5MHz 802.11a/n/ac: 5150-5250MHz, 5725-5850MHz
Center Frequency Range	BT / BLE: 2402MHz-2480MHz 802.11b/g/n: 2412MHz-2462MHz 802.11a/n/ac: 5180-5240MHz, 5745-5825MHz
Modulation Type	BT: GFSK, $\pi/4$ -DQPSK, 8DPSK BLE: GFSK WLAN: 2.4GHz: 802.11b: CCK, DQPSK, DBPSK 802.11g/n: BPSK, QPSK, 16QAM, 64QAM 5GHz: 802.11n/a: BPSK, QPSK, 16QAM, 64QAM 802.11ac: BPSK, QPSK, 16QAM, 64QAM, 256QAM
Modulation Technology	DSSS, OFDM, FHSS, DTS
Data Rate	BT: GFSK: 1Mbps, $\pi/4$ -DQPSK: 2Mbps, 8DPSK: 3Mbps BLE: GFSK: 1Mbps WLAN: 2.4GHz: 802.11b: 1, 2, 5.5, 11Mbps 802.11g: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20 5GHz: 802.11a: 6, 9, 12, 18, 24, 36, 48, 54Mbps 802.11n: MCS0 – MCS15, HT20/40 802.11ac: MCS0 – MCS9, VHT20/40/80
Antenna Type	Dipole Antenna
Antenna Gain	For BT / BLE: 2400-2500MHz: ANT A 1.8 dBi For WLAN: 2400-2500MHz: ANT A: 1.8 dBi, ANT B: 1.8 dBi 5150-5250MHz: ANT A: 2.37dBi, ANT B: 2.37dBi 5725-5850MHz: ANT A: 2.34dBi, ANT B: 2.34dBi
Adapter	Brand: DELTA Model: ADP-65JH HB

Note:

1. EUT support TPC Function.
2. EUT support Client Mode.
3. EUT WLAN 2.4GHz 802.11b and 802.11g 1TX diversity
4. WLAN and BT can simultaneously transmission.
5. For more details, please refer to the User's manual of the EUT.



2.2 Test Mode and Test Software

- a. During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- b. The complete test system included Notebook and EUT for RF test.
- c. An executive program, " QRCT ver. 4.0.00193.0" under Windows OS system was executed to transmit and receive data via Bluetooth & WLAN.
- d. The following test modes were performed for the test:

Conducted Emissions from the AC mains power ports	
Test Mode	Operating Description
1	BT GFSK CH39 + 2.4G 11n HT20 CH06 ,From Adapter
2	BT GFSK CH39 + 5G 11a CH165,From Adapter
caused "Test Mode 1,2" generated the worst case, it was reported as the final data.	
Radiation Emissions (Below 1GHz)	
Test Mode	Operating Description
1	BT GFSK CH39 + 2.4G 11n HT20 CH06 ,From Adapter
2	BT GFSK CH39 + 5G 11a CH165,From Adapter
caused "Test Mode 1,2" generated the worst case, it was reported as the final data.	
Radiation Emissions (1GHz ~ 40GHz)	
Test Mode	Operating Description
1	BT GFSK CH39 + 2.4G 11n HT20 CH06 ,From Adapter
2	BT GFSK CH39 + 5G 11a CH165,From Adapter
caused "Test Mode 1,2" generated the worst case, it was reported as the final data.	

Note:

There are two kinds of test voltage: AC 120V / 60Hz and AC 240V / 60Hz.

For AC Power Line Conducted Emission, AC 240V / 60Hz is worst case.

For Radiated Spurious Emission, (Below 1GHz), AC 240V / 60Hz is worst case.

For Radiated Spurious Emission, (1GHz ~ 40GHz), AC 120V / 60Hz is worst case.



2.3 Description of Test System

Radiated Emissions				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
USB cable	BENEVO	E210567AWM	N/A	0.6m / NS
AC Power Line Conducted Emission				
Equipment	Brand	Model	Length/Type	Power cord/Length/Type
Notebook	lenovo	S1GL2W	N/A	Adapter / 1.8m / NS
USB cable	BENEVO	E210567AWM	N/A	0.6m / NS

**2.4 General Information of Test**

Test Site	CerpPASS Technology Corporation Test Laboratory Address: No.10, Ln. 2, Lianfu St., Luzhu Dist., Taoyuan City 33848, Taiwan (R.O.C.) Tel:+886-3-3226-888 Fax:+886-3-3226-881	
	FCC	TW1439, TW1079
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication test C-4663 for Conducted emission test R-4218 for Radiated emission test G-10812, G-10813 for radiated disturbance above 1GHz
Frequency Range Investigated:	Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 40,000MHz	
Test Distance:	The test distance of radiated emission from antenna to EUT is 3 M.	

BT +2.4G

Test Item	Test Site	Test period	Environmental Conditions	Tested By
Radiated Emissions	3M02-NK	2022/09/26~2022/09/28	25~26°C / 34~43%	Leon Huang
AC Power Line Conducted Emission	CON01-NK	2022/09/27	25°C / 61%	Leon Huang

BT +5G

Test Item	Test Site	Test period	Environmental Conditions	Tested By
Radiated Emissions	3M02-NK	2022/9/21~2022/9/28	23~25°C / 34~42%	Leon Huang
AC Power Line Conducted Emission	CON01-NK	2022/09/27	25°C / 61%	Leon Huang



2.5 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))

Measurement Item	Uncertainty
AC Power Line Conduction(150K~30MHz)	±3.12dB
Radiated Spurious Emission(9KHz~30MHz)	±3.4dB
Radiated Spurious Emission(30MHz~1GHz)	±5.7dB
Radiated Spurious Emission(1GHz~40GHz)	±6.8dB



3. Test Equipment and Ancillaries Used for Tests

Test Item	Radiated Emissions				
Test Site	Semi Anechoic Room(3M02-NK)				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2021/11/05	2022/11/04
Active Loop Antenna	EMCO	6507	40855	2022/05/25	2023/05/24
Horn Antenna	EMCO	3115	31601	2021/10/14	2022/10/13
Horn Antenna	EMCO	3116	31970	2022/03/18	2023/03/17
EMI Receiver	ROHDE & SCHWARZ	ESCI	101423	2022/07/05	2023/07/04
Spectrum Analyzer	ROHDE & SCHWARZ	FSV 40-N	102151	2022/08/19	2023/08/18
Preamplifier	EM Electronics corp.	EM330	60658	2021/10/13	2022/10/12
Preamplifier	Agilent	8449B	3008A01954	2022/03/17	2023/03/16
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2021/11/16	2022/11/15
Cable-3in1(30M-1G)	HARBOUR INDUSTRIES	LL142	CCE1315	2022/03/21	2023/03/20
Cable-0.5m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	28420/2	2022/4/9	2023/04/08
Cable-3m(30M-40G)	HUBER SUHNER	SUCOFLEX 102	MY2608/2	2022/4/9	2023/04/08
Cable-0.5m(1G-40G)	Rapidtek	40GHZ 50CM	38MS-38MS50 314	2022/4/9	2023/04/08
Cable-3m(1G-40G)	Rapidtek	40GHZ 300CM	38MS-38MS30 0314	2022/4/9	2023/04/08
Cable-0.5m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805443/4	2022/01/11	2023/01/10
Cable-3m(1G-40G)	HUBER SUHNER	SUCOFLEX 104	805796/4	2022/01/11	2023/01/10
Cable-8m(1G-26.5G)	WOKEN	WCBA-WCA203SM	CCE1374	2022/04/25	2023/04/24
E3	AUDIX	v8.2014-8-6	RK-000529	NA	NA

Test Item	AC Power Line Conducted Emission				
Test Site	CON01-NK				
Instrument	Manufacturer	Model No	Serial No	Calibration Date	Valid Date
EMI Receiver	ROHDE & SCHWARZ	ESCI	101200	2022/08/22	2023/08/21
Line Impedance Stabilization Network	Schwarzbeck	NSLK 8127	8127-740	2022/08/21	2023/08/20
Pulse Limiter	ROHDE & SCHWARZ	ESH3-Z2	101934	2022/03/21	2023/03/20
Cable-6m(9k~300M)	NA	EMC5D-BM-BM-6	130606	2022/03/21	2023/03/20
E3	AUDIX	v8.2014-8-6	RK-000531	NA	NA



4. Test of AC Power Line Conducted Emission

4.1 Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz, according to the methods defined in ANSI C63.10-2013. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane. The interface cables and equipment positioning were varied within limits of reasonable applications to determine the position produced maximum conducted emissions.

Frequency (MHz)	Quasi Peak (dB μ V)	Average (dB μ V)
0.15 – 0.5	66-56*	56-46*
0.5 – 5.0	56	46
5.0 – 30.0	60	50

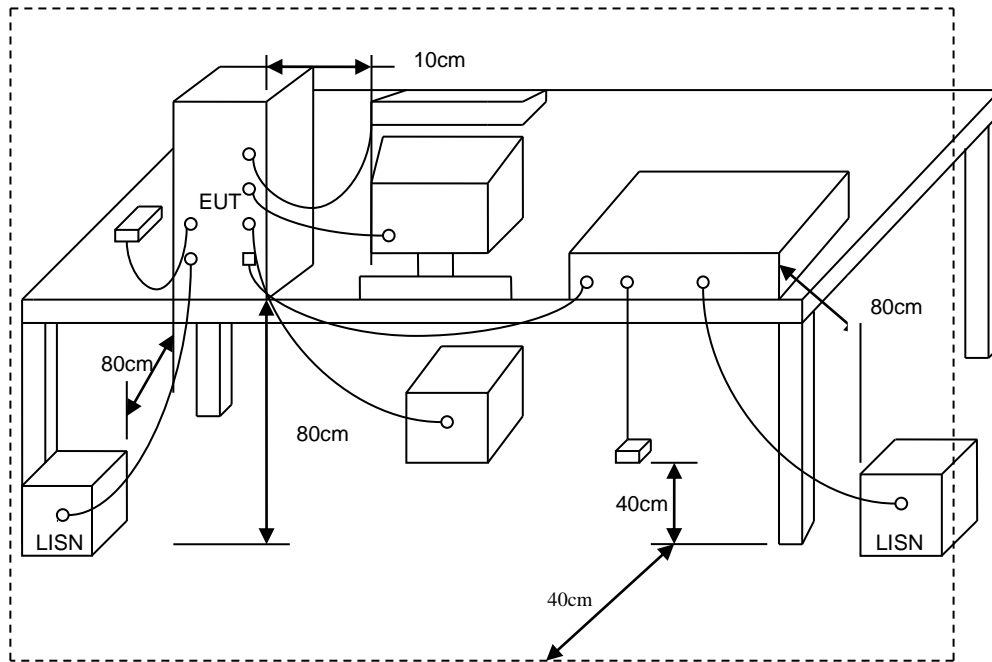
*Decreases with the logarithm of the frequency.

4.2 Test Procedures

- a. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
- b. Connect EUT to the power mains through a line impedance stabilization network (LISN).
- c. All the support units are connecting to the other LISN.
- d. The LISN provides 50 ohm coupling impedance for the measuring instrument.
- e. The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- f. Both sides of AC line were checked for maximum conducted interference.
- g. The frequency range from 150 kHz to 30 MHz was searched.
- h. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



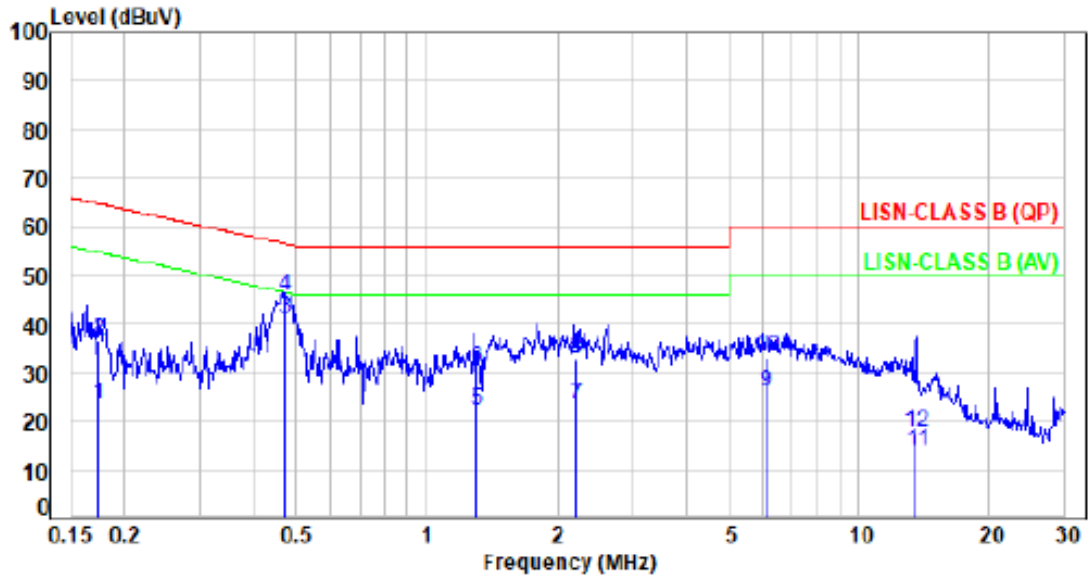
4.3 Typical Test Setup





4.4 Test Result and Data

Power	:	From Adapter (AC 240V / 60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 1		:	

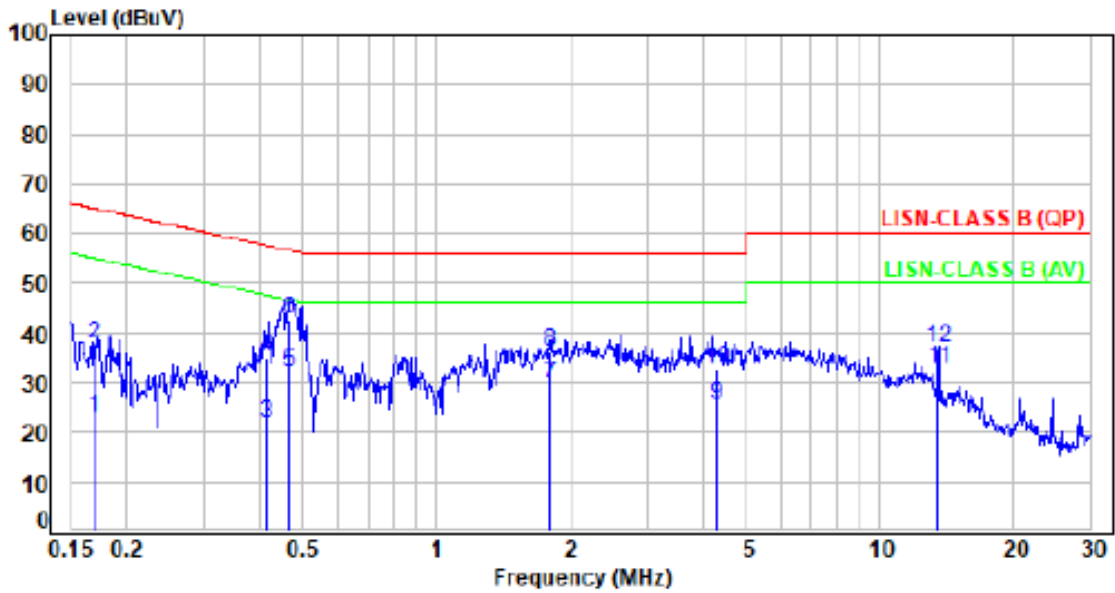


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.89	13.28	23.17	54.79	-31.62	Average	P
2	0.17	9.89	26.44	36.33	64.79	-28.46	QP	P
3	0.47	9.89	31.14	41.03	46.48	-5.45	Average	P
4	0.47	9.89	35.61	45.50	56.48	-10.98	QP	P
5	1.30	9.86	12.15	22.01	46.00	-23.99	Average	P
6	1.30	9.86	20.80	30.66	56.00	-25.34	QP	P
7	2.22	9.84	13.20	23.04	46.00	-22.96	Average	P
8	2.22	9.84	22.74	32.58	56.00	-23.42	QP	P
9	6.11	9.85	15.99	25.84	50.00	-24.16	Average	P
10	6.11	9.85	23.22	33.07	60.00	-26.93	QP	P
11	13.56	9.93	3.65	13.58	50.00	-36.42	Average	P
12	13.56	9.93	7.48	17.41	60.00	-42.59	QP	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: From Adapter (AC 240V / 60Hz)	Pol/Phase	: NEUTRAL
Test Mode	: Mode 1		:

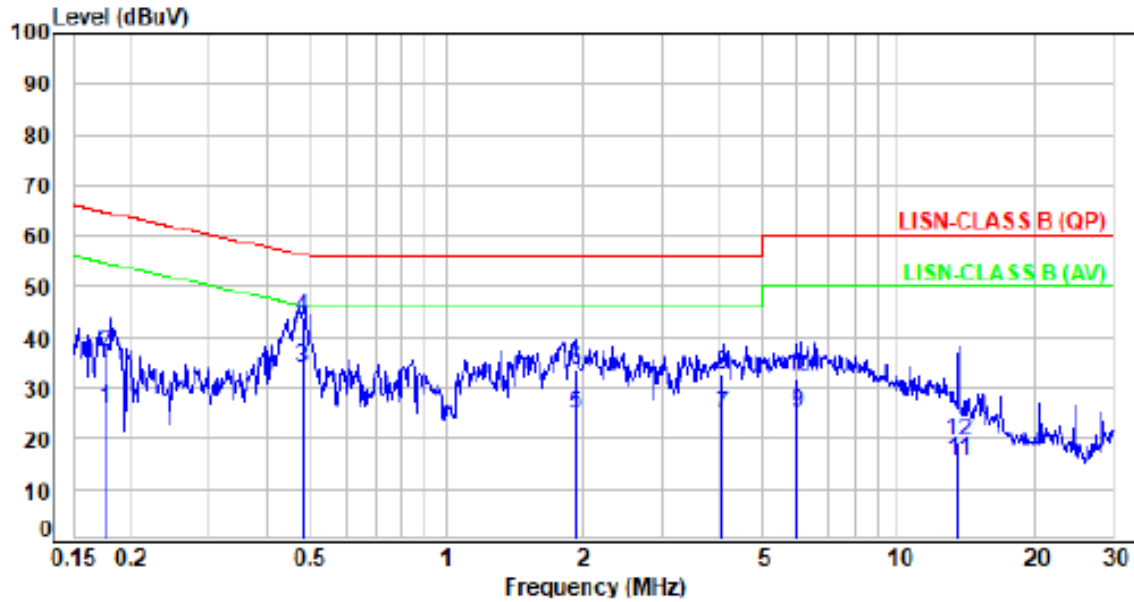


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.17	9.90	13.09	22.99	55.03	-32.04	Average	P
2	0.17	9.90	27.89	37.79	65.03	-27.24	QP	P
3	0.41	9.89	11.95	21.84	47.55	-25.71	Average	P
4	0.41	9.89	24.92	34.81	57.55	-22.74	QP	P
5	0.47	9.89	22.21	32.10	46.58	-14.48	Average	P
6	0.47	9.89	32.69	42.58	56.58	-14.00	QP	P
7	1.80	9.86	19.75	29.61	46.00	-16.39	Average	P
8	1.80	9.86	26.16	36.02	56.00	-19.98	QP	P
9	4.29	9.84	15.81	25.65	46.00	-20.35	Average	P
10	4.29	9.84	22.73	32.57	56.00	-23.43	QP	P
11	13.56	9.93	22.95	32.88	50.00	-17.12	Average	P
12	13.56	9.93	27.11	37.04	60.00	-22.96	QP	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	:	From Adapter (AC 240V / 60Hz)	Pol/Phase	:	LINE
Test Mode	:	Mode 2		:	

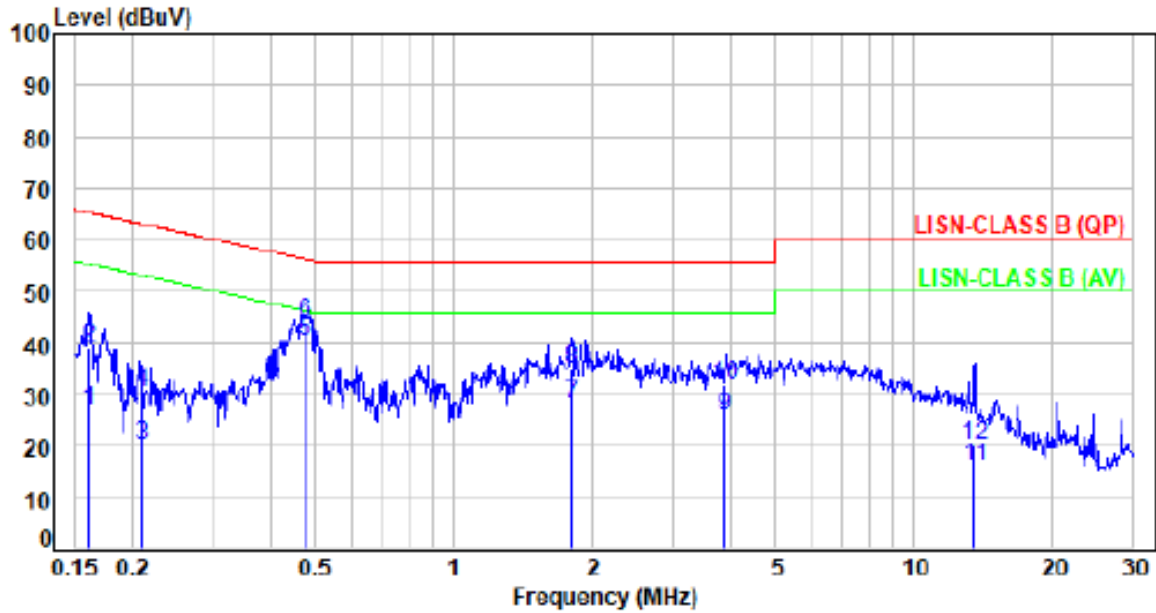


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.18	9.89	15.89	25.78	54.66	-28.88	Average	P
2	0.18	9.89	26.99	36.88	64.66	-27.78	QP	P
3	0.48	9.89	23.93	33.82	46.31	-12.49	Average	P
4	0.48	9.89	33.89	43.78	56.31	-12.53	QP	P
5	1.94	9.85	14.96	24.81	46.00	-21.19	Average	P
6	1.94	9.85	23.77	33.62	56.00	-22.38	QP	P
7	4.07	9.84	14.86	24.70	46.00	-21.30	Average	P
8	4.07	9.84	22.88	32.72	56.00	-23.28	QP	P
9	5.99	9.85	15.16	25.01	50.00	-24.99	Average	P
10	5.99	9.85	22.23	32.08	60.00	-27.92	QP	P
11	13.56	9.93	5.76	15.69	50.00	-34.31	Average	P
12	13.56	9.93	9.63	19.56	60.00	-40.44	QP	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=(LISN or ISN or Current Probe)Factor + Cable Loss



Power	: From Adapter (AC 240V / 60Hz)	Pol/Phase	: NEUTRAL
Test Mode	: Mode 2		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.16	9.90	17.04	26.94	55.41	-28.47	Average	P
2	0.16	9.90	29.14	39.04	65.41	-26.37	QP	P
3	0.21	9.90	10.34	20.24	53.23	-32.99	Average	P
4	0.21	9.90	20.61	30.51	63.23	-32.72	QP	P
5	0.48	9.89	30.53	40.42	46.41	-5.99	Average	P
6	0.48	9.89	34.31	44.20	56.41	-12.21	QP	P
7	1.81	9.86	18.43	28.29	46.00	-17.71	Average	P
8	1.81	9.86	25.17	35.03	56.00	-20.97	QP	P
9	3.89	9.84	16.07	25.91	46.00	-20.09	Average	P
10	3.89	9.84	22.27	32.11	56.00	-23.89	QP	P
11	13.56	9.93	5.88	15.81	50.00	-34.19	Average	P
12	13.56	9.93	10.10	20.03	60.00	-39.97	QP	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=(LISM or ISM or Current Probe)Factor + Cable Loss



5. Test of Spurious Emission (Radiated)

5.1 Test Limit

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. If the transmitter measurement is based on the maximum conducted output power, the attenuation required under this paragraph shall be 30dB instead of 20dB. In addition, radiated emissions which fall in section 15.205(a) the restricted bands must also comply with the radiated emission limit specified in section 15.209(a).

Frequency (MHz)	Field Strength (microvolt/meter)	Measurement Distance (meters)
0.009 ~ 0.490	2400/F(kHz)	300
0.490 ~ 1.705	24000/F(kHz)	30
1.705 ~ 30.0	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3



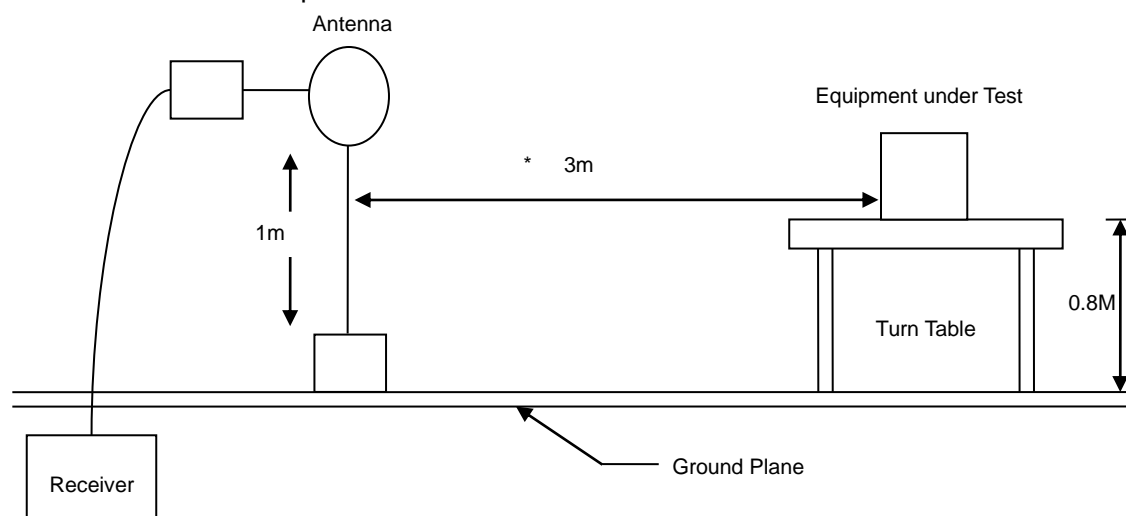
5.2 Test Procedures

- a. The EUT was placed on a rotatable table top 0.8 meter above ground.
- b. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- c. The table was rotated 360 degrees to determine the position of the highest radiation.
- d. The antenna is a broadband antenna and its height is varied between one meter and four meters above ground to find the maximum value of the field strength both horizontal polarization and vertical polarization of the antenna are set to make the measurement.
- e. For each suspected emission the EUT was arranged to its worst case and then tune the antenna tower (from 1 M to 4 M) and turn table (from 0 degree to 360 degrees) to find the maximum reading.
- f. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method and reported.
- h. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- i. "Cone of radiation" has been considered to be 3dB bandwidth of the measurement antenna.

Note: The supporting fixture shall permit orientation of the EUT in each of three orthogonal axis positions such that emissions from the EUT are maximized.
(X-AXIS is the worst.)

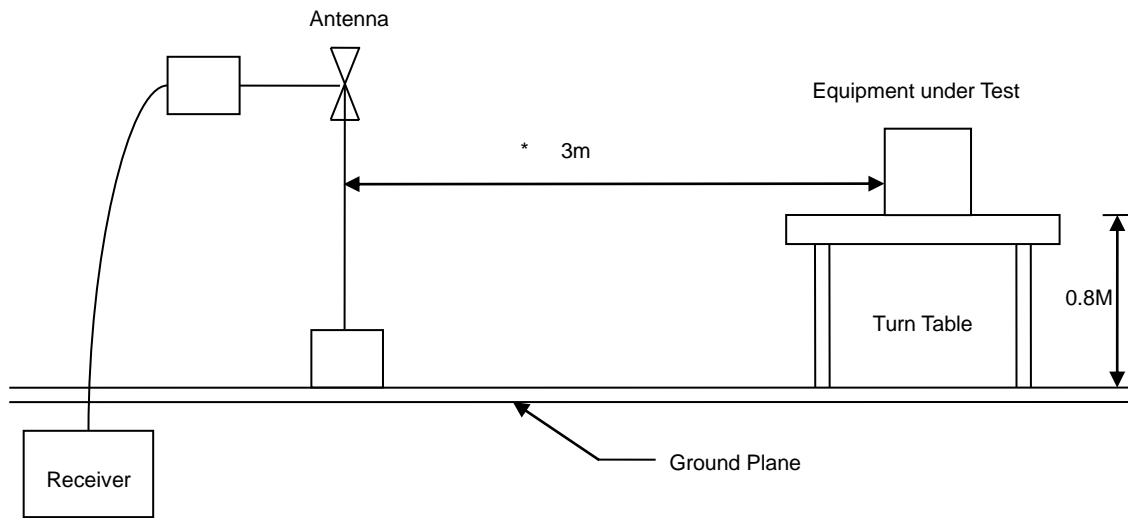
5.3 Typical Test Setup

Below 30MHz test setup

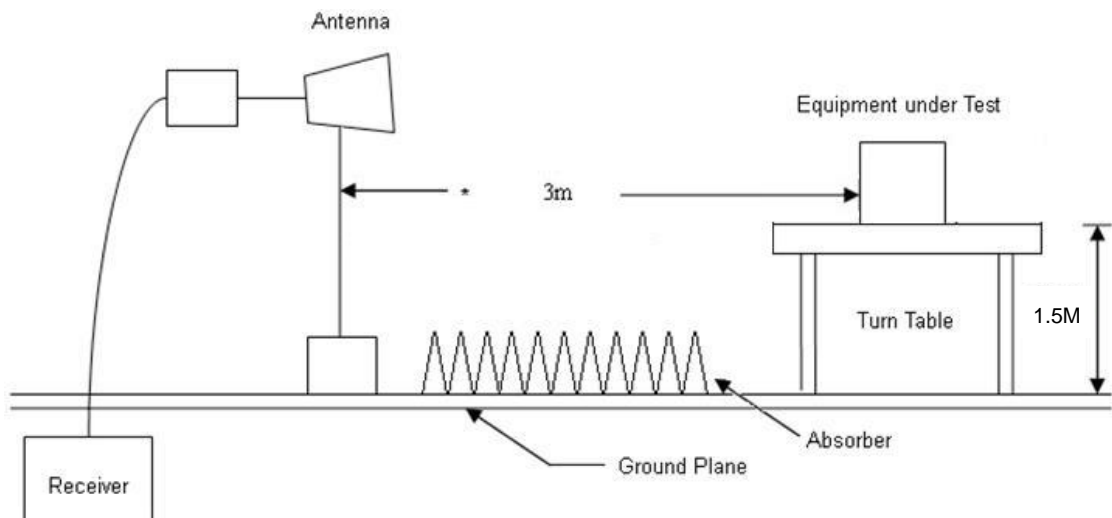




30MHz- 1GHz Test Setup



Above 1GHz Test Setup



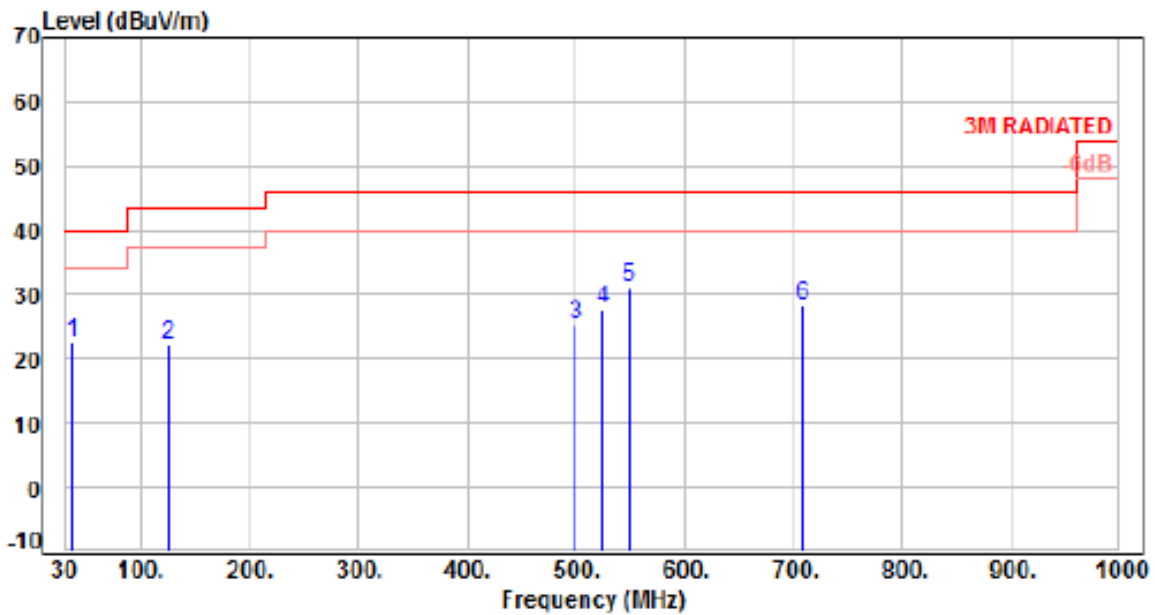


5.4 Test Result and Data (9kHz ~ 30MHz)

The 9kHz - 30MHz spurious emission is under limit 20dB more.

5.5 Test Result and Data (30MHz ~ 1GHz)

Power	:	From Adapter (AC 240V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1		:	

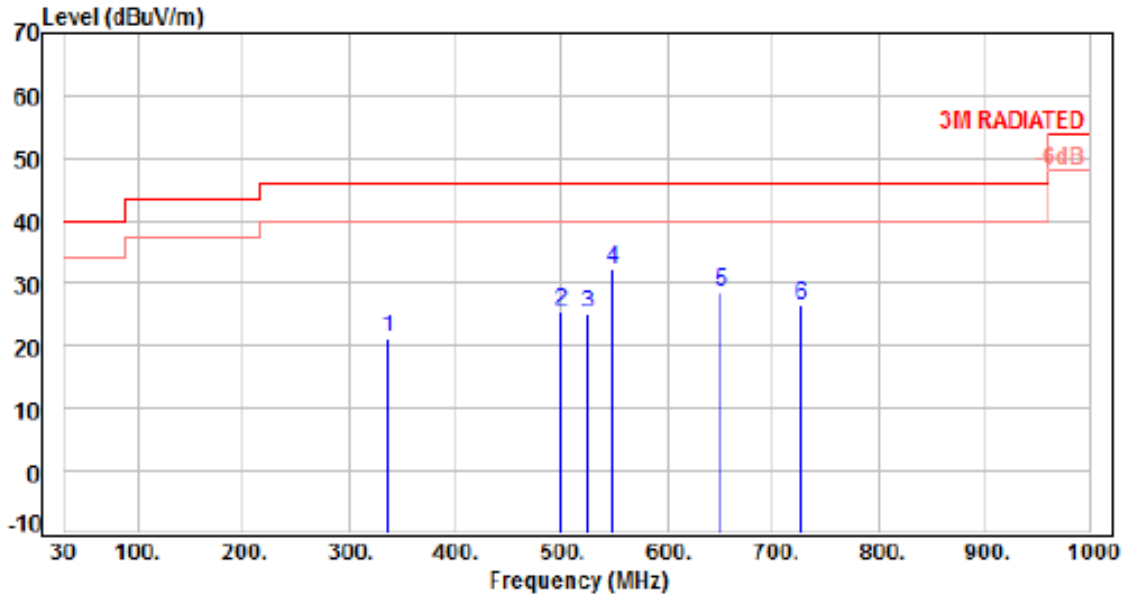


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	38.45	-12.03	34.61	22.58	40.00	-17.42	Peak	400	0	P
2	125.25	-13.37	35.71	22.34	43.50	-21.16	Peak	400	0	P
3	499.87	-5.27	30.65	25.38	46.00	-20.62	Peak	400	0	P
4	525.31	-4.73	32.45	27.72	46.00	-18.28	Peak	400	0	P
5	549.17	-4.36	35.27	30.91	46.00	-15.09	Peak	400	0	P
6	707.66	-1.17	29.48	28.31	46.00	-17.69	Peak	400	0	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	From Adapter (AC 240V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1		:	

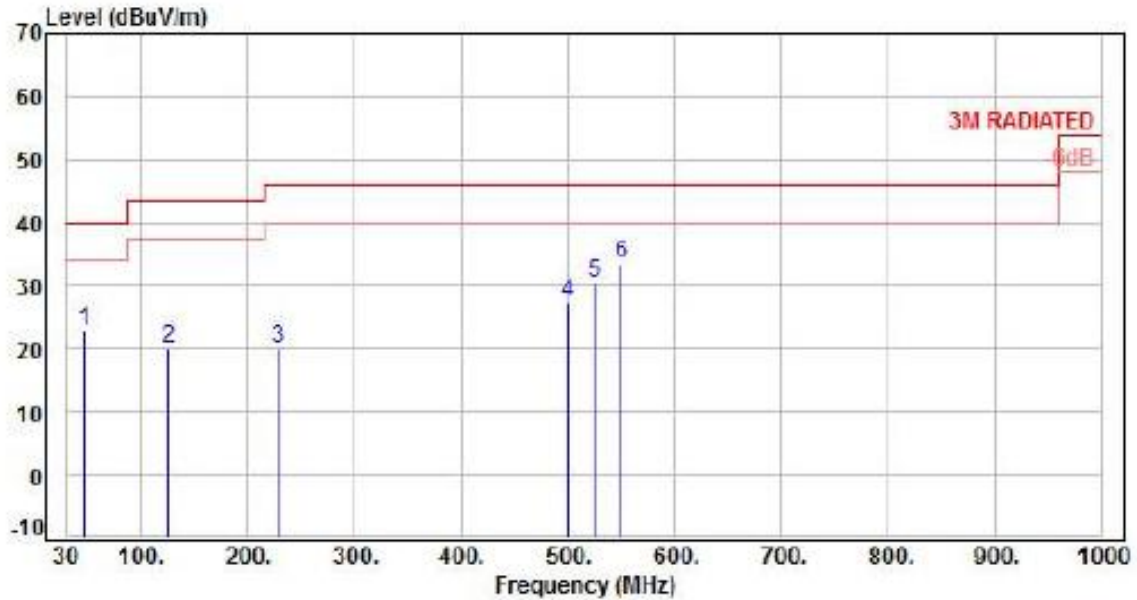


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	336.17	-9.34	30.53	21.19	46.00	-24.81	Peak	400	360	P
2	499.38	-5.27	30.82	25.55	46.00	-20.45	Peak	400	360	P
3	524.37	-4.76	30.16	25.40	46.00	-20.60	Peak	400	360	P
4	549.13	-4.36	36.53	32.17	46.00	-13.83	Peak	400	360	P
5	650.42	-1.90	30.55	28.65	46.00	-17.35	Peak	400	360	P
6	726.58	-1.03	27.67	26.64	46.00	-19.36	Peak	400	360	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	From Adapter (AC 240V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 2		:	

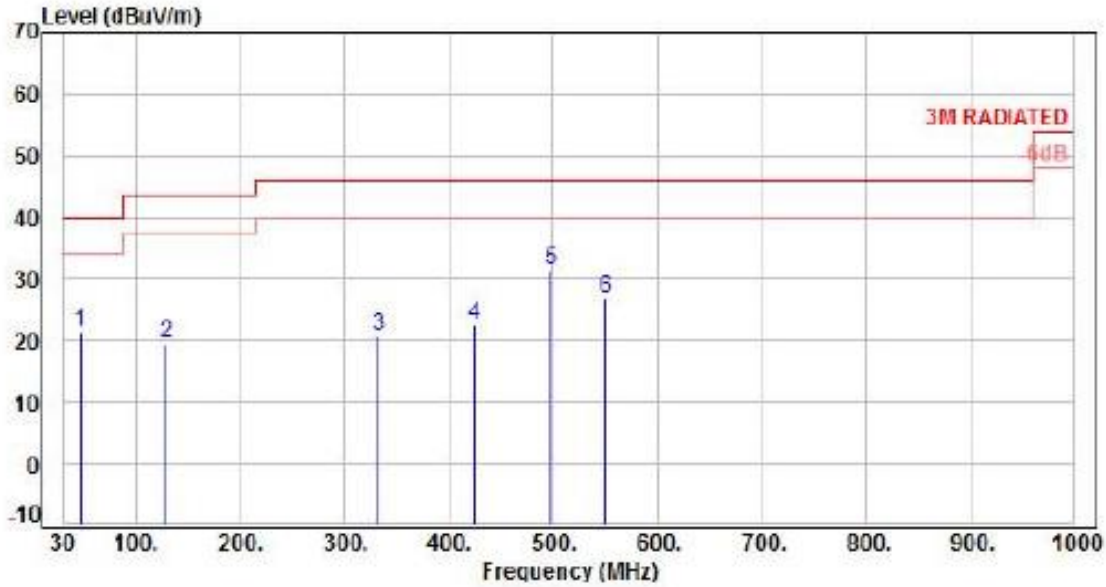


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	47.24	-11.05	33.81	22.76	40.00	-17.24	Peak	400	0	P
2	125.64	-13.29	33.28	19.99	43.50	-23.51	Peak	400	0	P
3	227.68	-14.06	34.05	19.99	46.00	-26.01	Peak	400	0	P
4	500.58	-5.25	32.65	27.40	46.00	-18.60	Peak	400	0	P
5	524.11	-4.76	35.18	30.42	46.00	-15.58	Peak	400	0	P
6	550.21	-4.32	37.82	33.50	46.00	-12.50	Peak	400	0	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	From Adapter (AC 240V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 2		:	



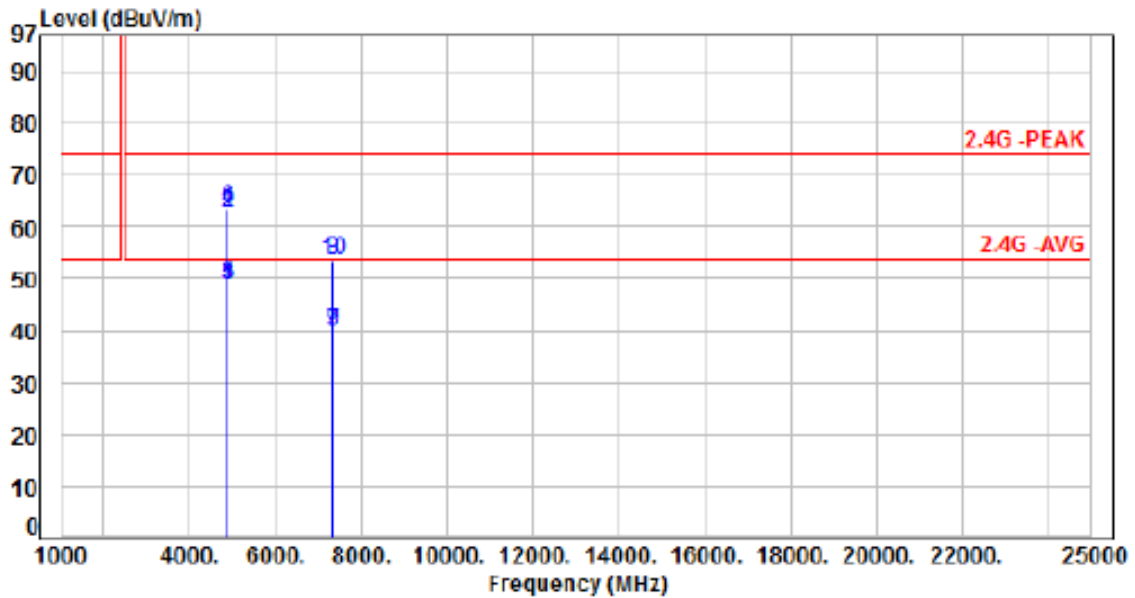
No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	47.51	-10.99	32.28	21.29	40.00	-18.71	Peak	400	360	P
2	129.46	-12.92	32.32	19.40	43.50	-24.10	Peak	400	360	P
3	332.81	-9.34	30.15	20.81	46.00	-25.19	Peak	400	360	P
4	424.28	-6.76	29.41	22.65	46.00	-23.35	Peak	400	360	P
5	498.16	-5.27	36.54	31.27	46.00	-14.73	Peak	400	360	P
6	549.33	-4.36	31.29	26.93	46.00	-19.07	Peak	400	360	P

Note: Level-Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



5.6 Test Result and Data (1GHz ~ 40GHz)

Power	:	From Adapter (AC 120V / 60Hz)	Pol/Phase	:	VERTICAL
Test Mode	:	Mode 1		:	

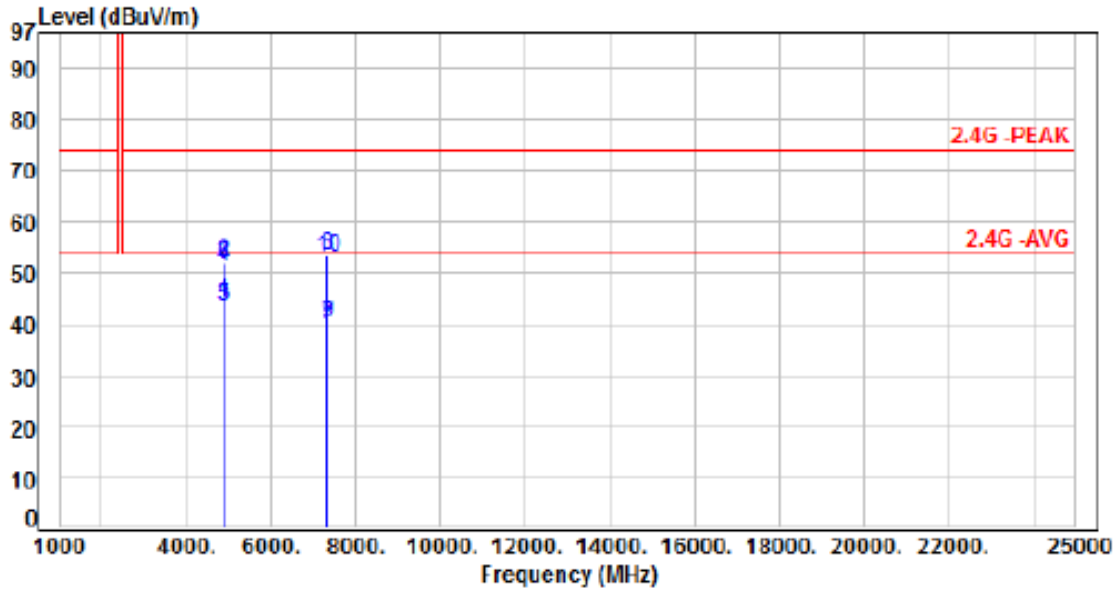


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4874.00	5.18	43.47	48.65	54.00	-5.35	Average	120	22	P
2	4874.00	5.18	57.61	62.79	74.00	-11.21	Peak	120	22	P
3	4878.00	5.20	43.52	48.72	54.00	-5.28	Average	100	21	P
4	4878.00	5.20	57.95	63.16	74.00	-10.84	Peak	100	21	P
5	4882.00	5.21	43.50	48.71	54.00	-5.29	Average	100	19	P
6	4882.00	5.21	58.38	63.59	74.00	-10.41	Peak	100	19	P
7	7311.00	10.16	29.70	39.86	54.00	-14.14	Average	100	244	P
8	7311.00	10.16	43.28	53.44	74.00	-20.56	Peak	100	244	P
9	7323.00	10.13	29.64	39.77	54.00	-14.23	Average	100	191	P
10	7323.00	10.13	43.17	53.30	74.00	-20.70	Peak	100	191	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	:	From Adapter (AC 120V / 60Hz)	Pol/Phase	:	HORIZONTAL
Test Mode	:	Mode 1		:	

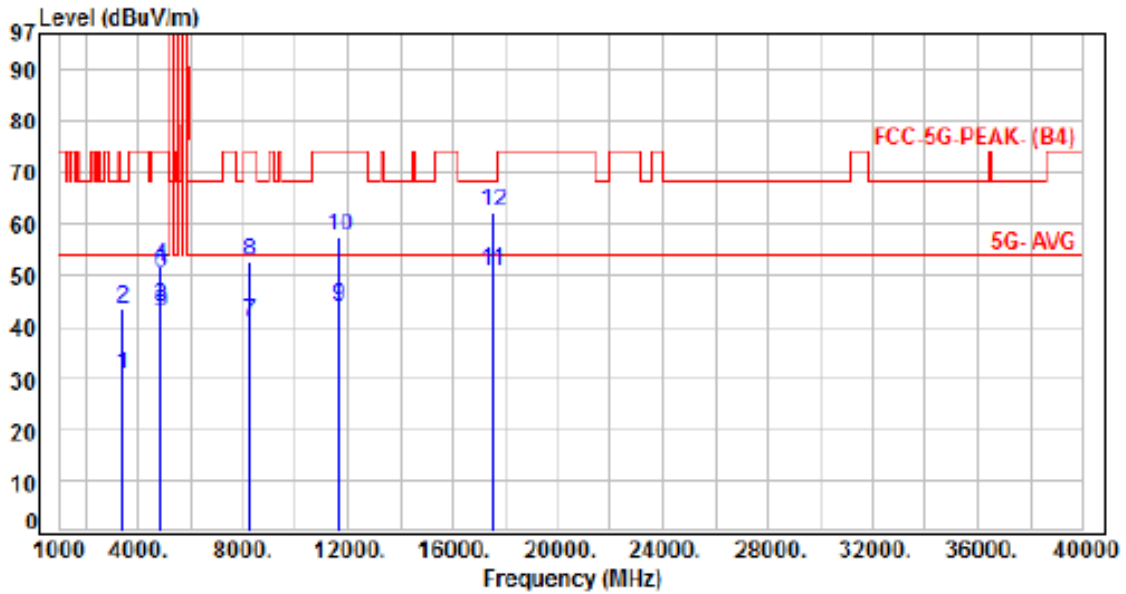


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	4874.00	5.18	39.05	44.23	54.00	-9.77	Average	100	248	P
2	4874.00	5.18	46.95	52.13	74.00	-21.87	Peak	100	248	P
3	4878.00	5.20	38.18	43.38	54.00	-10.62	Average	100	250	P
4	4878.00	5.20	45.88	51.08	74.00	-22.92	Peak	100	250	P
5	4882.00	5.21	38.47	43.68	54.00	-10.32	Average	100	146	P
6	4882.00	5.21	46.35	51.56	74.00	-22.44	Peak	100	146	P
7	7311.00	10.16	29.63	39.79	54.00	-14.21	Average	100	241	P
8	7311.00	10.16	43.27	53.43	74.00	-20.57	Peak	100	241	P
9	7323.00	10.13	30.02	40.15	54.00	-13.85	Average	100	131	P
10	7323.00	10.13	43.14	53.27	74.00	-20.73	Peak	100	131	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: From Adapter (AC 120V / 60Hz)	Pol/Phase	: VERTICAL
Test Mode	: Mode 2		:

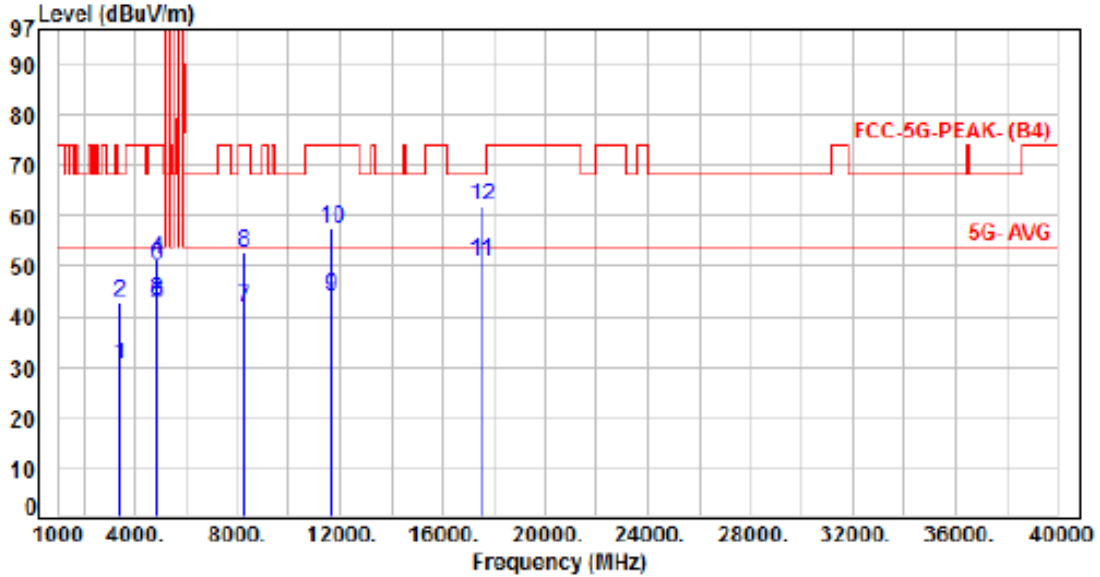


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3384.00	1.35	29.06	30.43	54.00	-23.57	Average	100	42	P
2	3384.00	1.35	41.99	43.34	68.20	-24.86	Peak	100	42	P
3	4874.00	5.18	38.72	43.90	54.00	-10.10	Average	100	251	P
4	4874.00	5.18	46.32	51.50	74.00	-22.50	Peak	100	251	P
5	4882.00	5.21	37.66	42.87	54.00	-11.13	Average	100	110	P
6	4882.00	5.21	45.32	50.53	74.00	-23.47	Peak	100	110	P
7	8266.00	11.20	29.91	41.11	54.00	-12.89	Average	100	154	P
8	8266.00	11.20	41.38	52.58	74.00	-21.42	Peak	100	154	P
9	11650.00	15.44	28.46	43.90	54.00	-10.10	Average	100	335	P
10	11650.00	15.44	42.16	57.60	74.00	-16.40	Peak	100	335	P
11	17475.00	22.45	28.42	50.87	54.00	-3.13	Average	100	150	P
12	17475.00	22.45	40.02	62.47	68.20	-5.73	Peak	100	150	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: From Adapter (AC 120V / 60Hz)	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 2		:



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	3384.00	1.35	28.71	30.06	54.00	-23.94	Average	100	149	P
2	3384.00	1.35	41.53	42.88	68.20	-25.32	Peak	100	149	P
3	4874.00	5.18	37.92	43.10	54.00	-10.90	Average	100	201	P
4	4874.00	5.18	46.01	51.19	74.00	-22.81	Peak	100	201	P
5	4882.00	5.21	37.35	42.56	54.00	-11.44	Average	100	13	P
6	4882.00	5.21	44.78	49.99	74.00	-24.01	Peak	100	13	P
7	8266.00	11.20	30.47	41.67	54.00	-12.33	Average	100	55	P
8	8266.00	11.20	41.38	52.58	74.00	-21.42	Peak	100	55	P
9	11650.00	15.44	28.27	43.71	54.00	-10.29	Average	100	300	P
10	11650.00	15.44	41.92	57.36	74.00	-16.64	Peak	100	300	P
11	17475.00	22.45	28.32	50.77	54.00	-3.23	Average	100	165	P
12	17475.00	22.45	39.57	62.02	68.20	-6.18	Peak	100	165	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



5.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz