

FCC TEST REPORT

FCC ID: 2BR64-WP2

Report No. : SSP25080458-1E

Applicant : shenzhenshihuayunsupaikejiyouxiangongsi

Product Name : Wireless Power Bank

Model Name : WP2

Test Standard : FCC Part 15 Subpart C

Date of Issue : 2025-08-30

Shenzhen CCUT Quality Technology Co., Ltd.

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This test report is limited to the above client company and the product model only. It may not be duplicated without prior permitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information

Applicant.....: shenzhenshihuayunsupaikejiyouxiangongsi
Room 307, Yusheng Huating No. 8210, Bao'an Avenue Wanfeng Community,
Address of Applicant.....: Xinqiao Street, Shenzhen, China

Manufacturer.....: shenzhenshihuayunsupaikejiyouxiangongsi
Room 307, Yusheng Huating No. 8210, Bao'an Avenue Wanfeng Community,
Address of Manufacturer.....: Xinqiao Street, Shenzhen, China

Product Name.....: Wireless Power Bank

Brand Name.....: -

Main Model.....: WP2

Series Models.....: -

FCC Part 15 Subpart C

ANSI C63.4-2014

Test Standard.....: ANSI C63.10-2013

Date of Test: 2025-08-25 to 2025-08-30

Test Result.....: PASS

Tested By: Coke Huang (Coke Huang)

Reviewed By: Lorrix Luo (Lorrix Luo)

Authorized Signatory: Lahm Peng (Lahm Peng)



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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2025-08-30	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Wireless Power Bank
Trade Name:	-
Test Model:	WP2
Series Models:	-
Rated Voltage:	Input: 5V/3A, 9V/2A Output: 5V/3A, 9V/2.22A, 12V/1.67A Watch Wireless Output: 2.5W (Max) Earbuds Wireless Output: 2.5W (Max) Wireless Output: 5W, 7.5W, 10W, 15W(Max) DC 3.85V by battery, USB 5V Charging
Power Adapter:	-
Battery:	DC 3.85V, 5000mAh
Test Sample No:	SSP25080458-1
Hardware Version:	V1.0
Software Version:	V1.0
Note 1: The test data is gathered from a production sample, provided by the manufacturer.	

Wireless Specification	
Wireless Standard:	WPC (QI)
Operating Frequency:	Wireless charging Output (Phone/Earphone):110.5kHz-205kHz Wireless charging Output (Watch):310kHz-340kHz
Max. Field Strength:	Phone:97.24dBuV/m Earphone:84.34dBuV/m Watch:75.76dBuV/m
Modulation:	FSK
Antenna Gain:	0dBi
Type of Antenna:	Coil Antenna
Type of Device:	<input checked="" type="checkbox"/> Portable Device <input type="checkbox"/> Mobile Device <input type="checkbox"/> Modular Device

1.2 Test Setup Information

List of Test Modes		
Test Mode	Description	Remark
TM1	Wireless charging 5W (Phone)+adapter charging	-
TM2	Wireless charging 15W (Phone)	-
TM3	Wireless charging 10W (Phone)	-
TM4	Wireless charging 7.5W (Phone)	-
TM5	Wireless charging 5W (Phone)	-
TM6	Wireless charging 2.5W (Earphone)+adapter charging	-
TM7	Wireless charging 2.5W (Earphone)	-
TM8	Wireless charging 2.5W (Watch)+adapter charging	-
TM9	Wireless charging 2.5W (Watch)	-

Note 1: All modes above have been tested and only the worst modes: TM1 and TM2, TM6 and TM7, TM8 and TM9 Fully loaded data are represented in the report.

Note 2: The AC mode only supports 5W output.

List and Details of Auxiliary Cable			
Description	Length (cm)	Shielded/Unshielded	With/Without Ferrite
-	-	-	-
-	-	-	-
List and Details of Auxiliary Equipment			
Description	Manufacturer	Model	Serial Number
Adapter	xiaomi	MDY-14-EU	45461/A62505U102607S
Dummy load (15W)	YBZ	YBZ-001	N/A
Dummy load (2.5W)	YBZ	YBZ-003	N/A

1.3 Compliance Standards

Compliance Standards	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
All measurements contained in this report were conducted with all above standards	
According to standards for test methodology	
FCC Part 15 Subpart C	FEDERAL COMMUNICATIONS COMMISSION, RADIO FREQUENCY DEVICES, Intentional Radiators
ANSI C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.
ANSI C63.10-2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices
Maintenance of compliance is the responsibility of the manufacturer or applicant. Any modification of the product, which result is lowering the emission, should be checked to ensure compliance has been maintained.	

1.4 Test Facilities

Laboratory Name:	Shenzhen CCUT Quality Technology Co., Ltd. 1F, Building 35, Changxing Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China
CNAS Laboratory No.:	L18863
A2LA Certificate No.:	6983.01
FCC Registration No.:	583813
FCC Designation No.:	CN1373
ISED Registration No.:	CN0164

1.5 List of Measurement Instruments

Description	Manufacturer	Model	Serial Number	Cal. Date	Due. Date
Conducted Emissions					
AMN	ROHDE&SCHWARZ	ENV216	101097	2025-07-15	2026-07-14
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100242	2025-07-15	2026-07-14
Test Cable	N/A	Cable 5	N/A	2025-07-15	2026-07-14
EMI Test Software	FARA	EZ-EMC	EMEC-3A1+	N/A	N/A
Radiated Emissions					
EMI Test Receiver	ROHDE&SCHWARZ	ESPI	100154	2025-07-15	2026-07-14
Spectrum Analyzer	KEYSIGHT	N9020A	MY48030972	2025-07-15	2026-07-14
Amplifier	SCHWARZBECK	BBV 9743B	00251	2025-07-15	2026-07-14
Amplifier	HUABO	YXL0518-2.5-45	--	2025-07-15	2026-07-14
Loop Antenna	DAZE	ZN30900C	21104	2025-07-12	2026-07-11
Broadband Antenna	SCHWARZBECK	VULB 9168	01320	2025-07-12	2026-07-11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02553	2025-07-12	2026-07-11
Attenuator	QUANJUDA	6dB	220731	2025-07-15	2026-07-14
Test Cable	N/A	Cable 1	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 2	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 3	N/A	2025-07-15	2026-07-14
Test Cable	N/A	Cable 4	N/A	2025-07-15	2026-07-14
EMI Test Software	FARA	EZ-EMC	FA-03A2 RE+	N/A	N/A
Conducted RF Testing					
RF Test System	MWRFTest	MW100-RFCB	220418SQS-37	2025-07-16	2026-07-15
Spectrum Analyzer	KEYSIGHT	N9020A	ATO-90521	2025-07-16	2026-07-15

1.6 Measurement Uncertainty

Test Item	Conditions	Uncertainty
Conducted Emissions	9kHz ~ 30MHz	±1.64 dB
Radiated Emissions	9kHz ~ 30MHz	±2.88 dB
	30MHz ~ 1GHz	±3.32 dB
	1GHz ~ 18GHz	±3.50 dB
Occupied Bandwidth	9kHz ~ 26GHz	±4.0 %

2. Summary of Test Results

FCC Rule	Description of Test Item	Result
FCC Part 15.203	Antenna Requirement	Passed
FCC Part 15.207	Conducted Emissions	Passed
FCC Part 15.209	Radiated Emissions	Passed
FCC Part 15.215(c)	Occupied Bandwidth	Passed

Passed: The EUT complies with the essential requirements in the standard
Failed: The EUT does not comply with the essential requirements in the standard
N/A: Not applicable

3. Antenna Requirement

3.1 Standard and Limit

According to FCC Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.

3.2 Test Result

This product has an Coil antenna, fulfill the requirement of this section.

4. Conducted Emissions

4.1 Standard and Limit

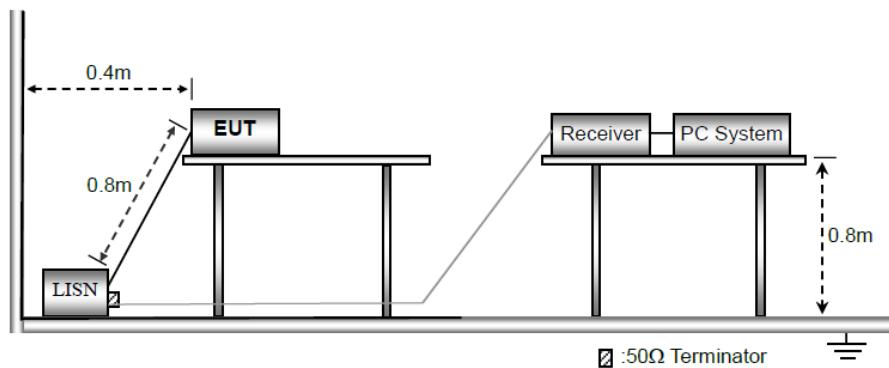
According to the rule FCC Part 15.207, Conducted emissions limit, the limit for a wireless device as below:

Frequency of Emission (MHz)	Conducted emissions (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56	56 to 46
0.5-5	56	46
5-30	60	50

Note 1: Decreases with the logarithm of the frequency in the range 0.15 MHz to 0.5 MHz
Note 2: The lower limit applies at the band edges

4.2 Test Procedure

Test is conducting under the description of ANSI C63.10 - 2013 section 6.2.



Test Setup Block Diagram

a) The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

b) The following is the setting of the receiver

Attenuation: 10dB

Start Frequency: 0.15MHz

Stop Frequency: 30MHz

IF Bandwidth: 9kHz

c) 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.

- d) 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.
- e) 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.
- f) LISN is at least 80 cm from nearest part of EUT chassis.
- g) For the actual test configuration, please refer to the related Item - photographs of the test setup.

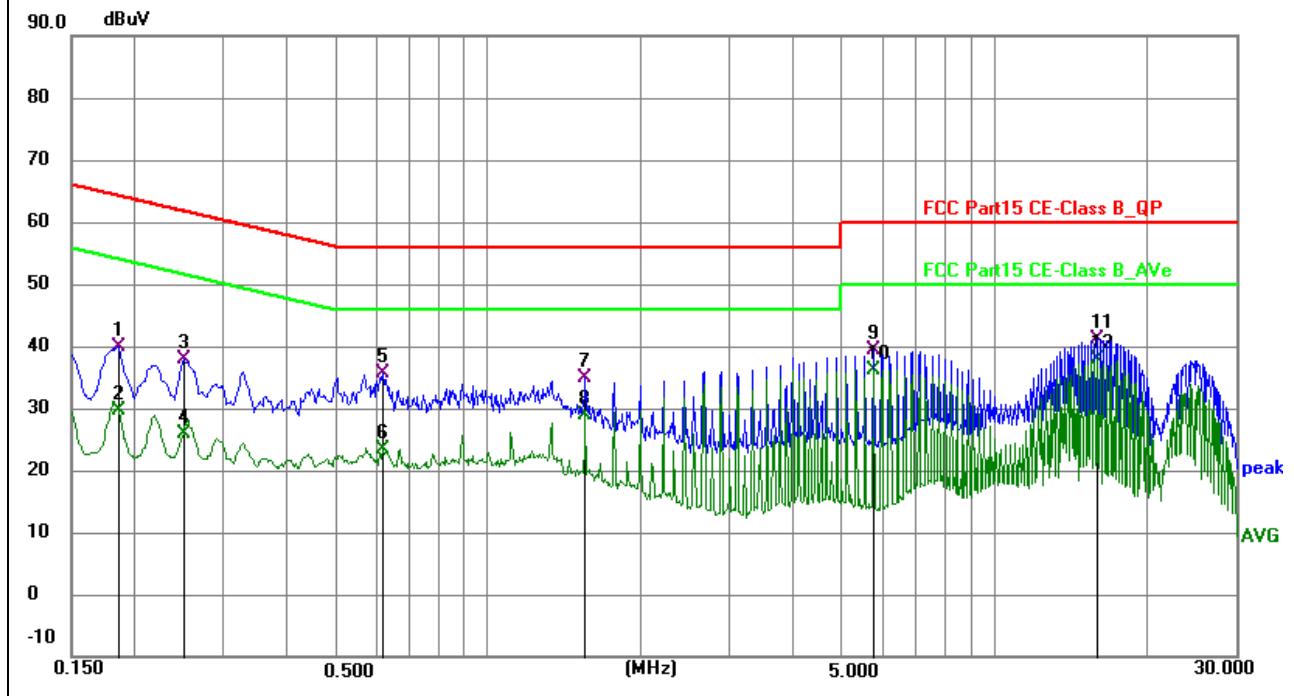
4.3 Test Data and Results

All modes including full load, halfload and no-load have been tested, the EUT complied with the FCC Part 15.207 standard limit for a wireless device, and with the worst case TM1 , TM6, TM8 as below:

Remark: Level = Reading + Factor, Margin = Level - Limit

Test Plots and Data of Conducted Emissions

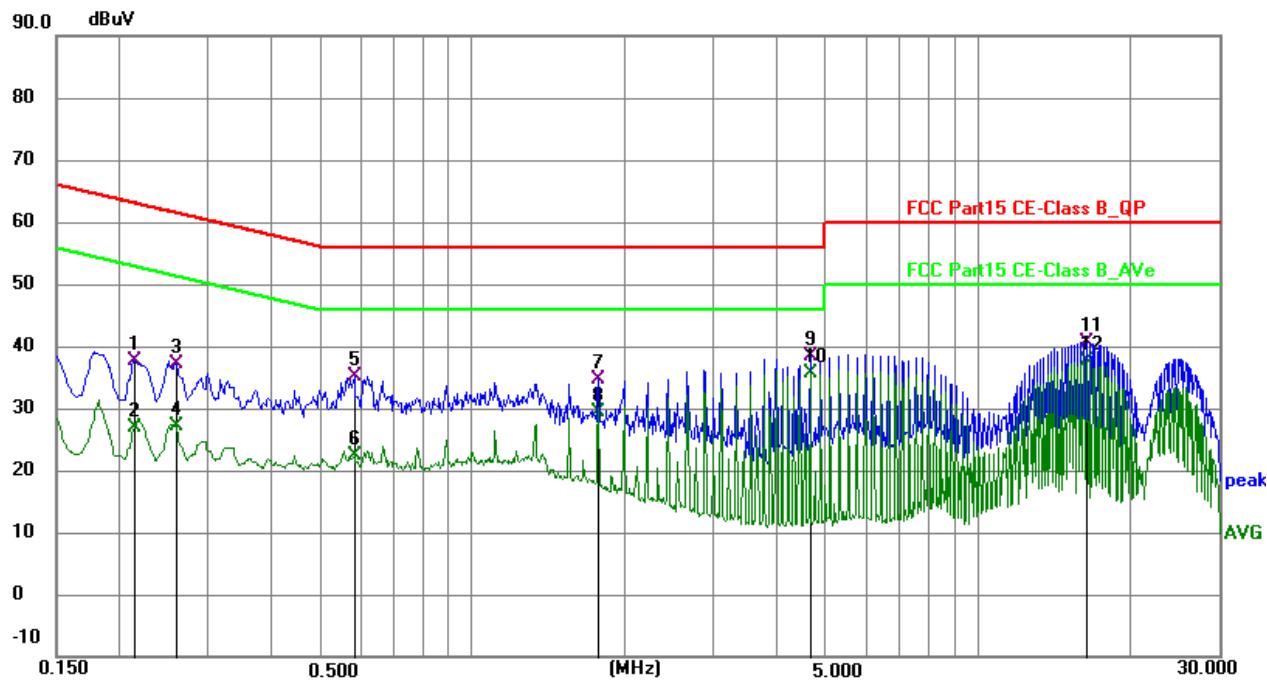
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1860	30.73	9.22	39.95	64.21	-24.26	QP	P	
2	0.1860	20.47	9.22	29.69	54.21	-24.52	AVG	P	
3	0.2490	28.53	9.30	37.83	61.79	-23.96	QP	P	
4	0.2490	16.60	9.30	25.90	51.79	-25.89	AVG	P	
5	0.6180	26.22	9.37	35.59	56.00	-20.41	QP	P	
6	0.6180	13.89	9.37	23.26	46.00	-22.74	AVG	P	
7	1.5540	25.55	9.44	34.99	56.00	-21.01	QP	P	
8	1.5540	19.53	9.44	28.97	46.00	-17.03	AVG	P	
9	5.7705	29.77	9.57	39.34	60.00	-20.66	QP	P	
10	5.7705	26.60	9.57	36.17	50.00	-13.83	AVG	P	
11	15.9855	31.47	9.63	41.10	60.00	-18.90	QP	P	
12 *	15.9855	28.31	9.63	37.94	50.00	-12.06	AVG	P	

Test Plots and Data of Conducted Emissions

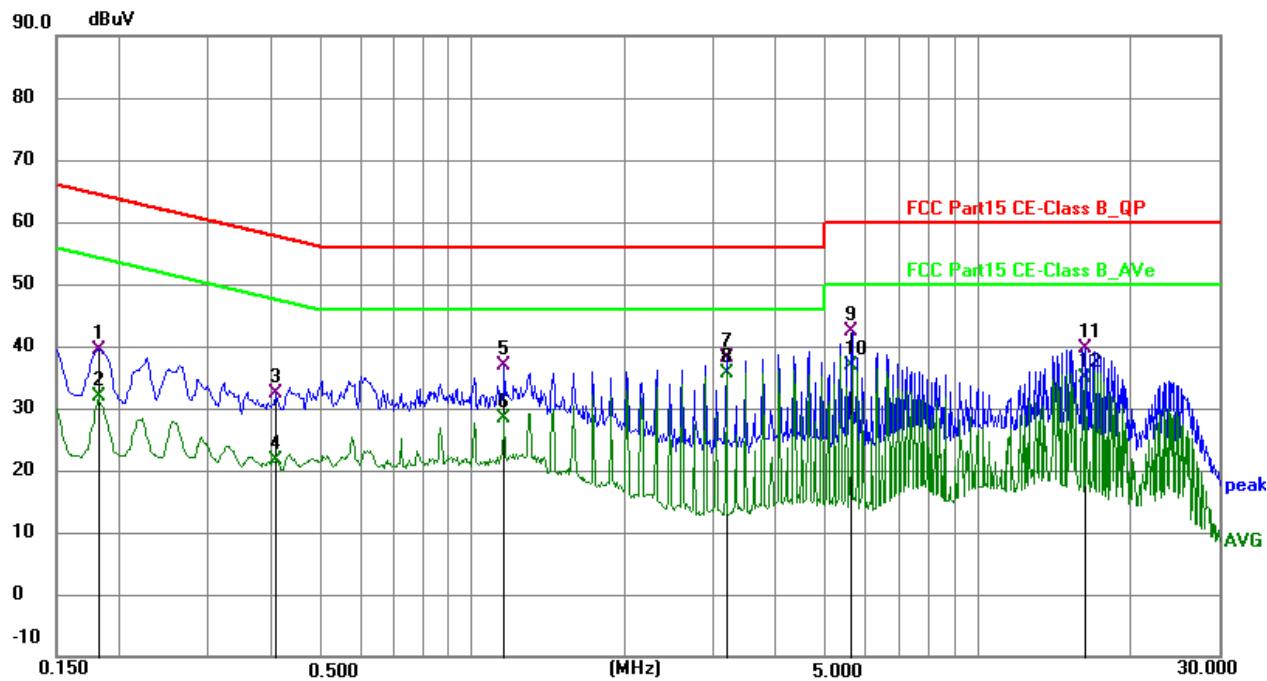
Tested Mode:	TM1
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.2130	28.33	9.42	37.75	63.09	-25.34	QP	P	
2	0.2130	17.43	9.42	26.85	53.09	-26.24	AVG	P	
3	0.2580	27.59	9.51	37.10	61.50	-24.40	QP	P	
4	0.2580	17.52	9.51	27.03	51.50	-24.47	AVG	P	
5	0.5820	25.62	9.57	35.19	56.00	-20.81	QP	P	
6	0.5820	12.87	9.57	22.44	46.00	-23.56	AVG	P	
7	1.7745	24.87	9.65	34.52	56.00	-21.48	QP	P	
8	1.7745	19.70	9.65	29.35	46.00	-16.65	AVG	P	
9	4.6590	28.62	9.75	38.37	56.00	-17.63	QP	P	
10 *	4.6590	25.97	9.75	35.72	46.00	-10.28	AVG	P	
11	16.4220	30.83	9.82	40.65	60.00	-19.35	QP	P	
12	16.4220	27.83	9.82	37.65	50.00	-12.35	AVG	P	

Test Plots and Data of Conducted Emissions

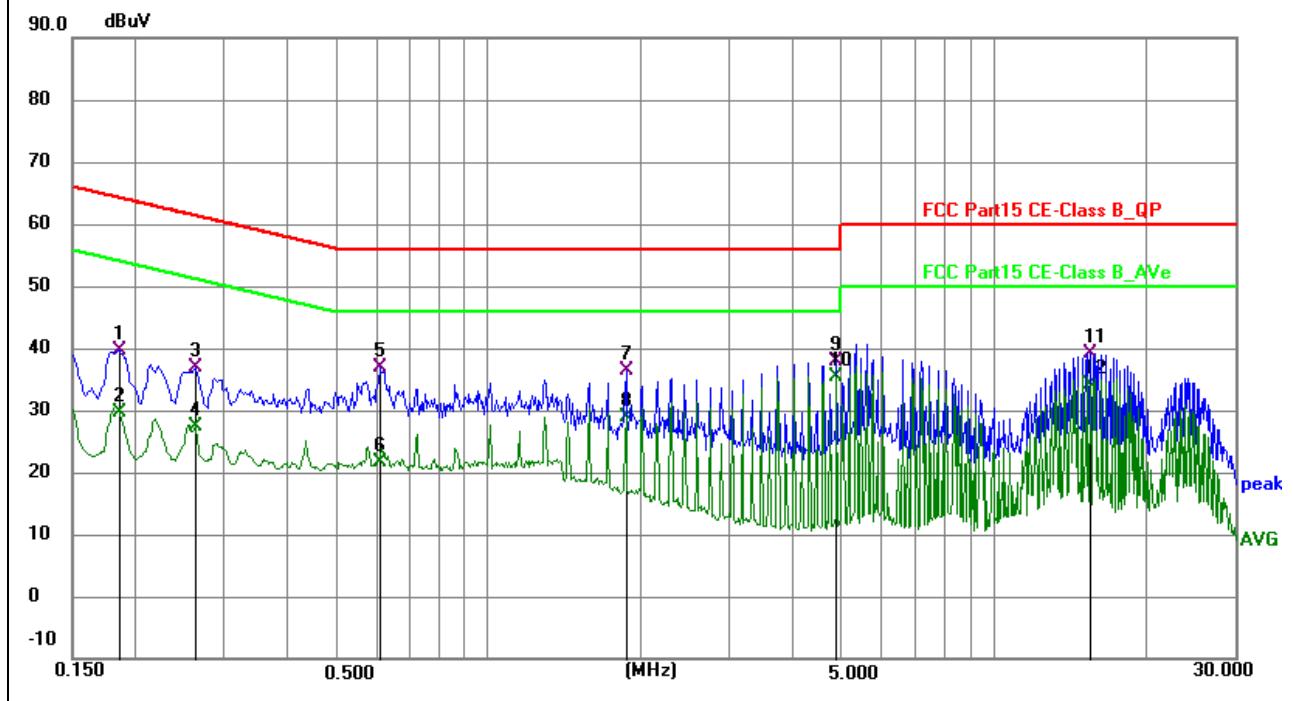
Tested Mode:	TM6
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1815	30.26	9.23	39.49	64.42	-24.93	QP	P	
2	0.1815	22.54	9.23	31.77	54.42	-22.65	AVG	P	
3	0.4065	22.93	9.38	32.31	57.72	-25.41	QP	P	
4	0.4065	12.30	9.38	21.68	47.72	-26.04	AVG	P	
5	1.1535	27.42	9.43	36.85	56.00	-19.15	QP	P	
6	1.1535	18.88	9.43	28.31	46.00	-17.69	AVG	P	
7	3.1785	28.66	9.50	38.16	56.00	-17.84	QP	P	
8 *	3.1785	26.03	9.50	35.53	46.00	-10.47	AVG	P	
9	5.6354	32.71	9.57	42.28	60.00	-17.72	QP	P	
10	5.6354	27.36	9.57	36.93	50.00	-13.07	AVG	P	
11	16.3725	29.86	9.65	39.51	60.00	-20.49	QP	P	
12	16.3725	25.14	9.65	34.79	50.00	-15.21	AVG	P	

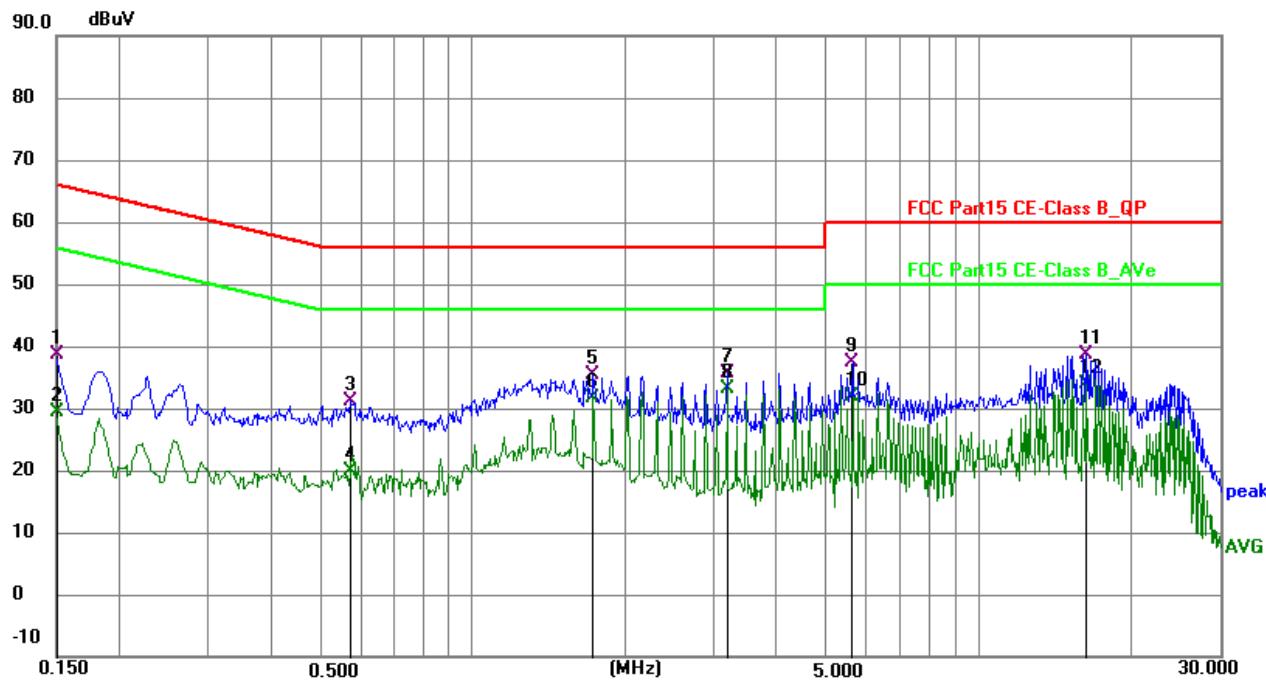
Test Plots and Data of Conducted Emissions

Tested Mode:	TM6
Test Voltage:	AC 120V/60Hz
Test Power Line:	Live
Remark:	

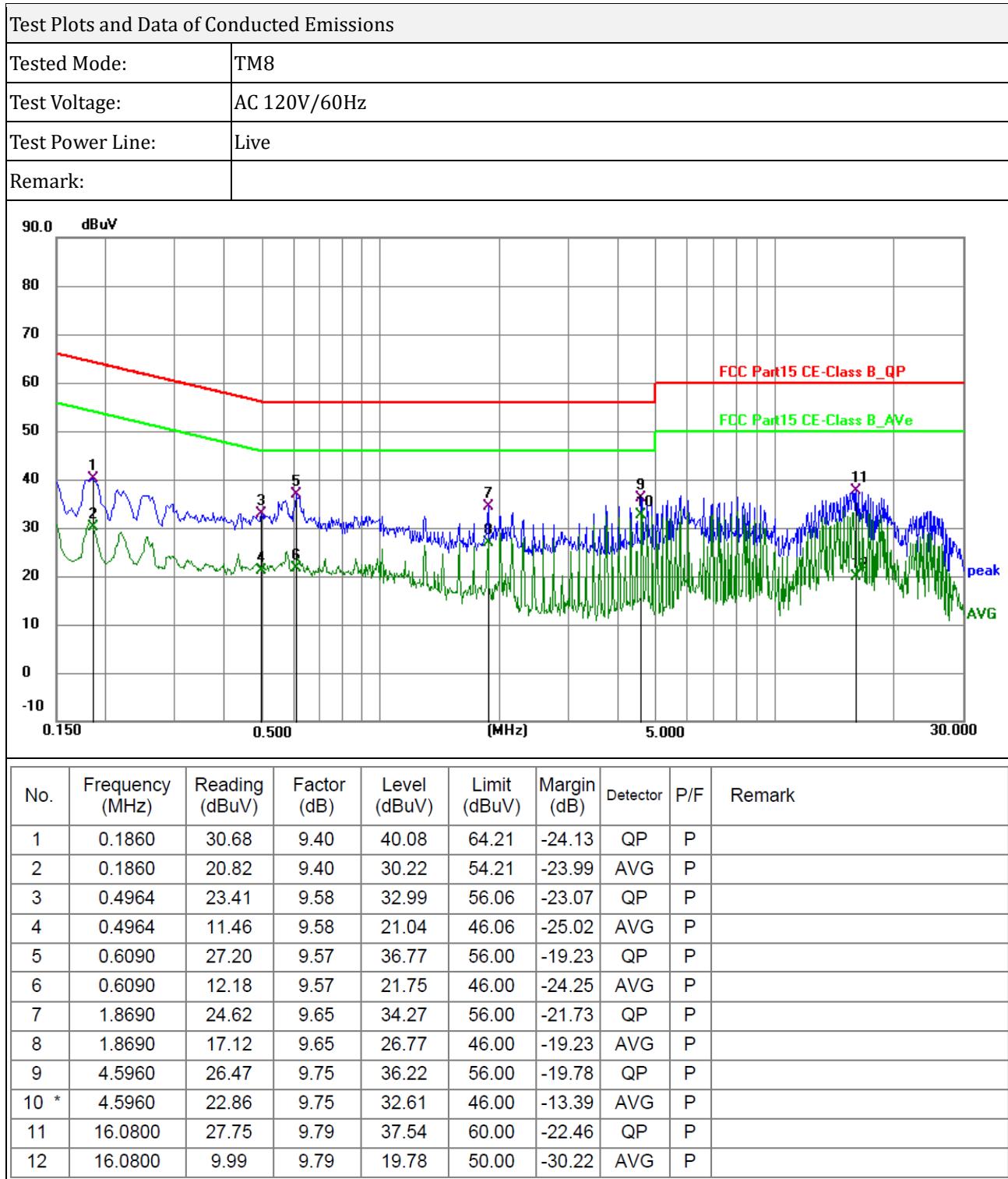


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1860	30.18	9.40	39.58	64.21	-24.63	QP	P	
2	0.1860	20.32	9.40	29.72	54.21	-24.49	AVG	P	
3	0.2625	27.31	9.52	36.83	61.35	-24.52	QP	P	
4	0.2625	17.88	9.52	27.40	51.35	-23.95	AVG	P	
5	0.6090	27.20	9.57	36.77	56.00	-19.23	QP	P	
6	0.6090	12.18	9.57	21.75	46.00	-24.25	AVG	P	
7	1.8690	26.62	9.65	36.27	56.00	-19.73	QP	P	
8	1.8690	19.12	9.65	28.77	46.00	-17.23	AVG	P	
9	4.8840	28.04	9.76	37.80	56.00	-18.20	QP	P	
10 *	4.8840	25.68	9.76	35.44	46.00	-10.56	AVG	P	
11	15.5310	29.31	9.75	39.06	60.00	-20.94	QP	P	
12	15.5310	24.38	9.75	34.13	50.00	-15.87	AVG	P	

Test Plots and Data of Conducted Emissions	
Tested Mode:	TM8
Test Voltage:	AC 120V/60Hz
Test Power Line:	Neutral
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F	Remark
1	0.1500	29.27	9.25	38.52	66.00	-27.48	QP	P	
2	0.1500	20.18	9.25	29.43	56.00	-26.57	AVG	P	
3	0.5700	21.71	9.37	31.08	56.00	-24.92	QP	P	
4	0.5700	10.54	9.37	19.91	46.00	-26.09	AVG	P	
5	1.7340	26.02	9.45	35.47	56.00	-20.53	QP	P	
6	1.7340	22.10	9.45	31.55	46.00	-14.45	AVG	P	
7	3.1785	26.16	9.50	35.66	56.00	-20.34	QP	P	
8 *	3.1785	23.53	9.50	33.03	46.00	-12.97	AVG	P	
9	5.6354	27.71	9.57	37.28	60.00	-22.72	QP	P	
10	5.6354	22.36	9.57	31.93	50.00	-18.07	AVG	P	
11	16.3724	28.86	9.65	38.51	60.00	-21.49	QP	P	
12	16.3724	24.14	9.65	33.79	50.00	-16.21	AVG	P	



5. Radiated Emissions

5.1 Standard and Limit

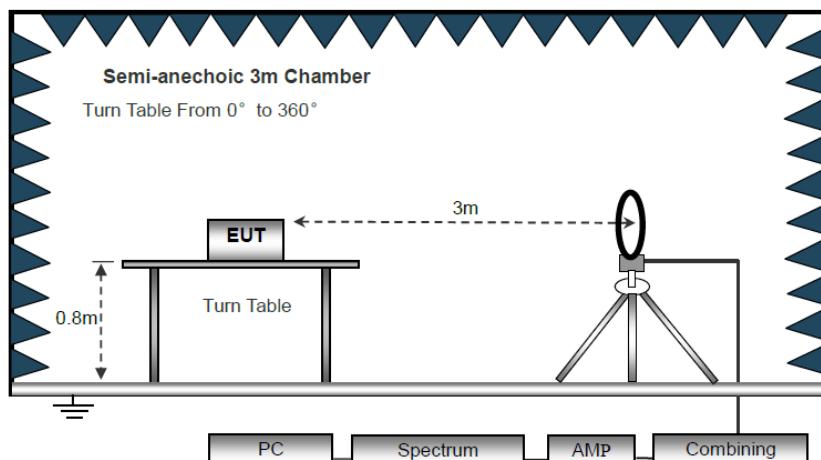
According to the rule FCC Part 15.209, Radiated emission limit for a wireless device as below:

Frequency of Emission (MHz)	Field Strength (micorvolts/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

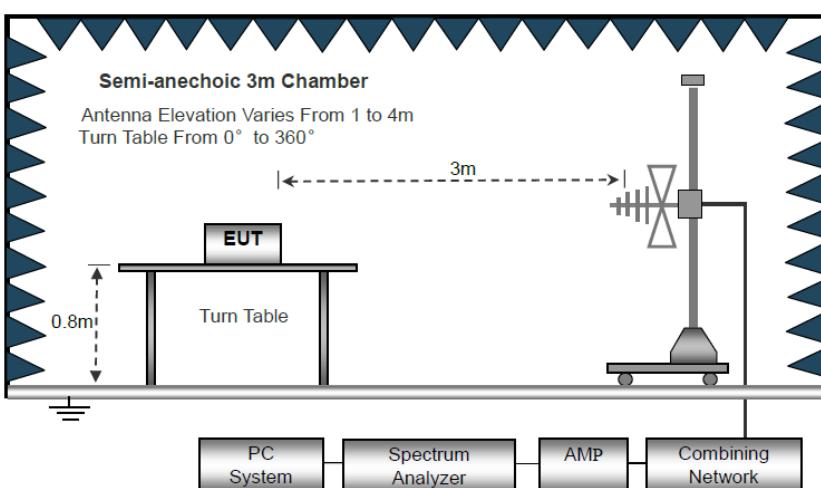
Note: The more stringent limit applies at transition frequencies.

5.2 Test Procedure

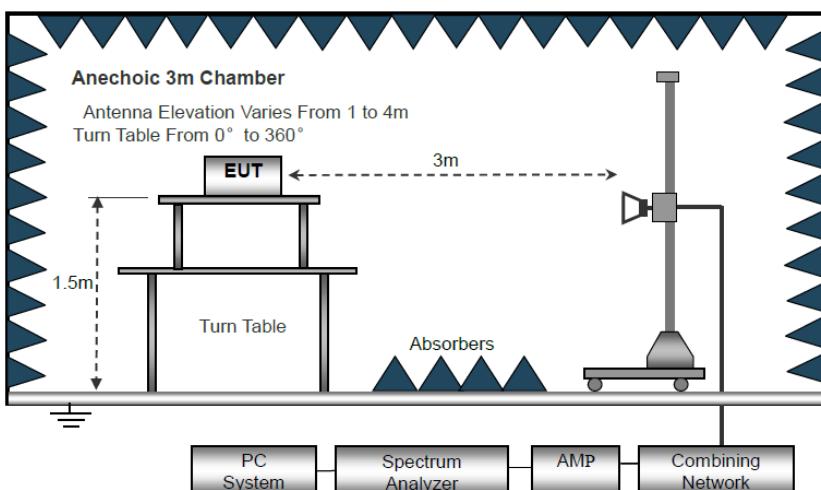
Test is conducting under the description of ANSI C63.10 - 2013 section 6.3 to 6.6.



Block Diagram of Radiated Emission Below 30MHz



Block Diagram of Radiated Emission From 30MHz to 1GHz



Block Diagram of Radiated Emission Above 1GHz

a) The EUT is placed on a turntable, which is 0.8m above ground plane for test frequency range below 1GHz, and 1.5m above ground plane for test frequency range above 1GHz.

b) EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

c) Use the following spectrum analyzer settings:
Span = wide enough to fully capture the emission being measured
RBW = 1 MHz for $f \geq 1\text{GHz}$, 100 kHz for $f < 1\text{ GHz}$, 10kHz for $f < 30\text{MHz}$
VBW \geq RBW, Sweep = auto
Detector function = peak
Trace = max hold

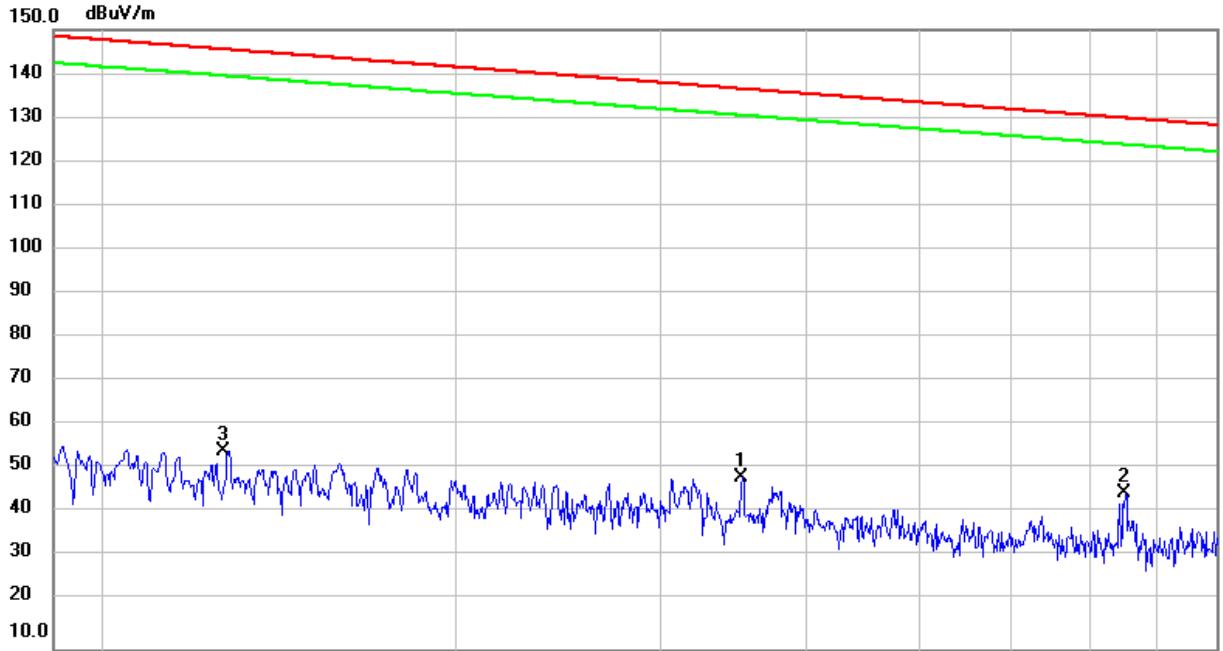
d) Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.

e) The peak level, once corrected, must comply with the limit specified in Section 15.209. Set the RBW = 1MHz, VBW = 10Hz, Detector = PK for AV value, while maintaining all of the other instrument settings.

f) For the actual test configuration, please refer to the related item - EUT test photos.

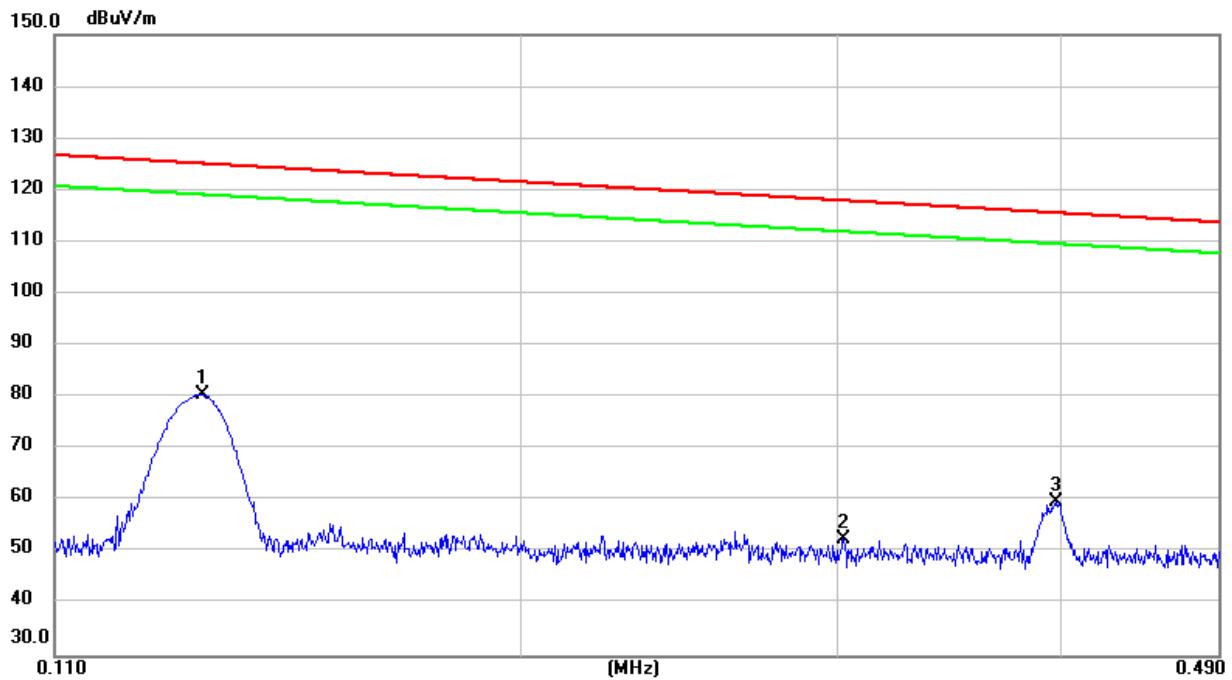
5.3 Test Data and Results

All modes including full load, halfload and no-load have been tested, the EUT complied with the FCC Part 15.209 standard limit for a wireless device, and with the worst case TM1, TM2, TM6, TM7, TM8, TM9 as below:

Test Data of Radiated Emissions from 9kHz to 30MHz																		
Test Mode:		TM1			Phase:		Coplaner											
Test Voltage:		AC 120V/60Hz																
Remark:																		
																		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark							
1	0.0351	16.53	32.42	48.95	136.69	-87.74	peak	100	360	P								
2 *	0.0750	19.29	26.14	45.43	130.09	-84.66	peak	100	360	P								
3	0.0126	19.31	35.69	55.00	145.58	-90.58	peak	100	360	P								

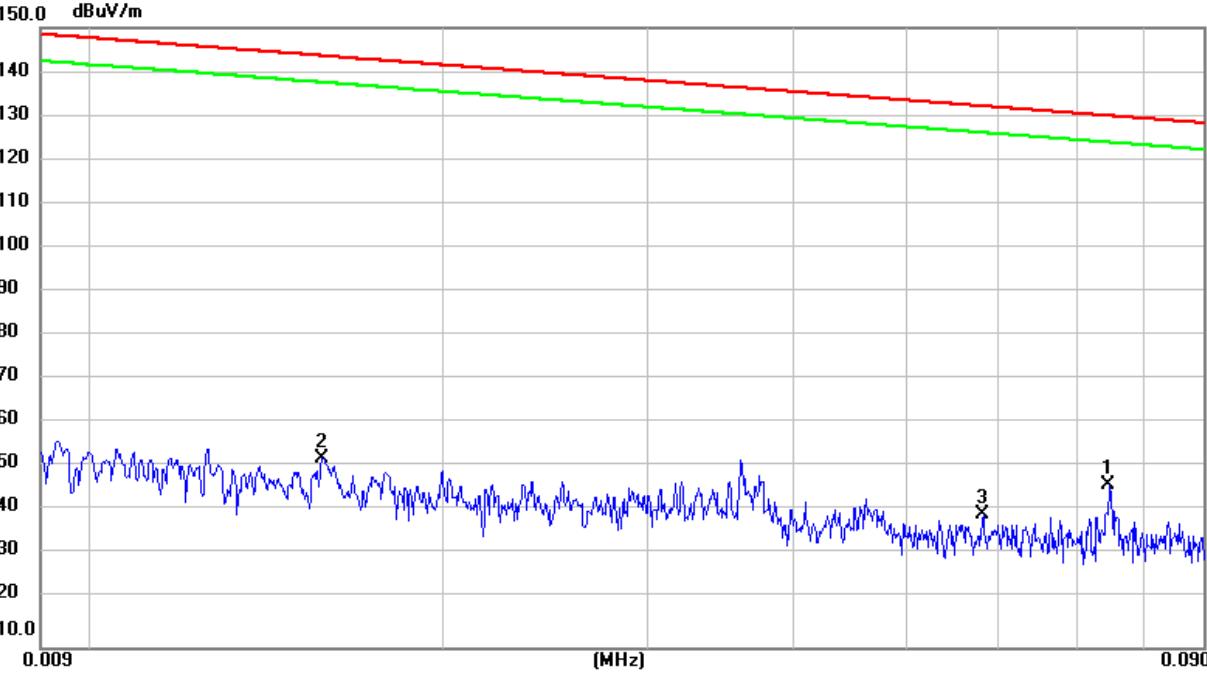
Test Data of Radiated Emissions from 9kHz to 30MHz

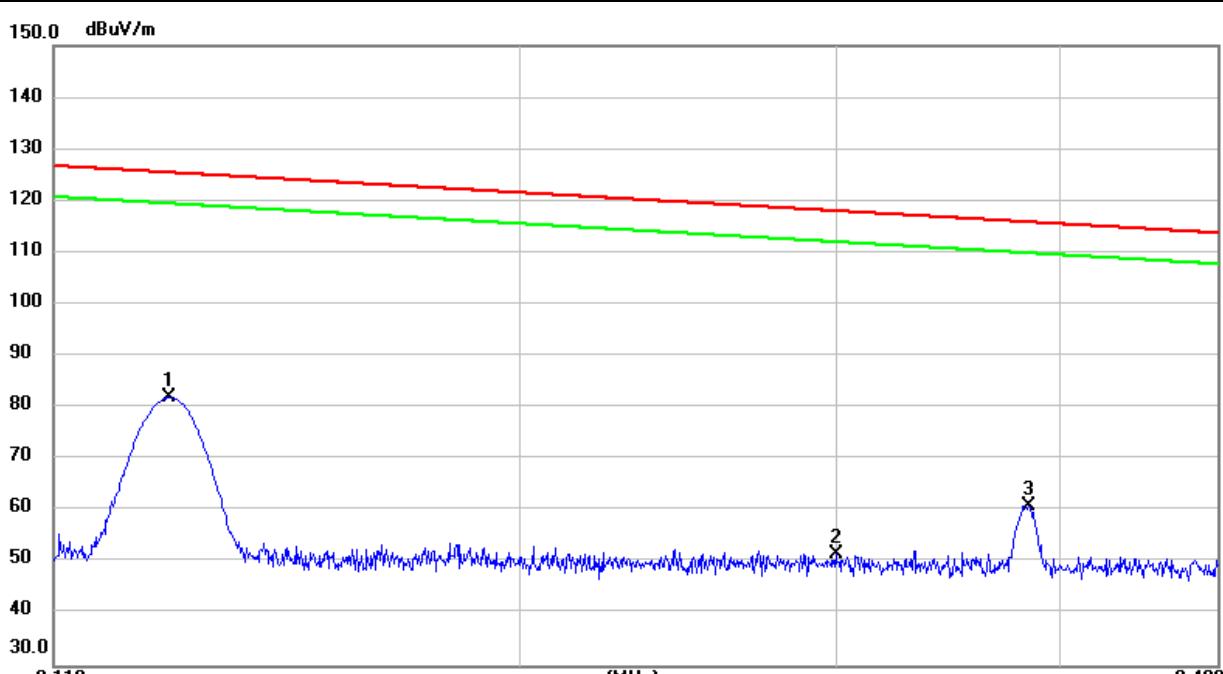
Test Mode:	TM1	Phase:	Coplaner
Test Voltage:	AC 120V/60Hz		
Remark:			

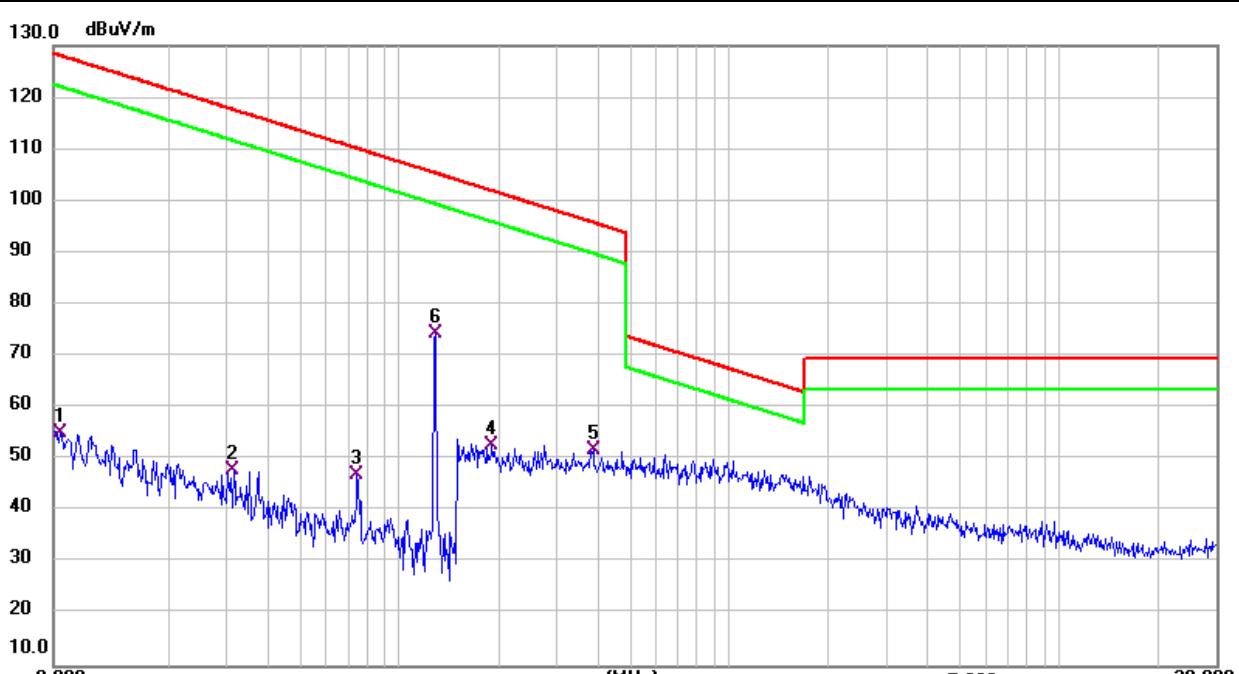


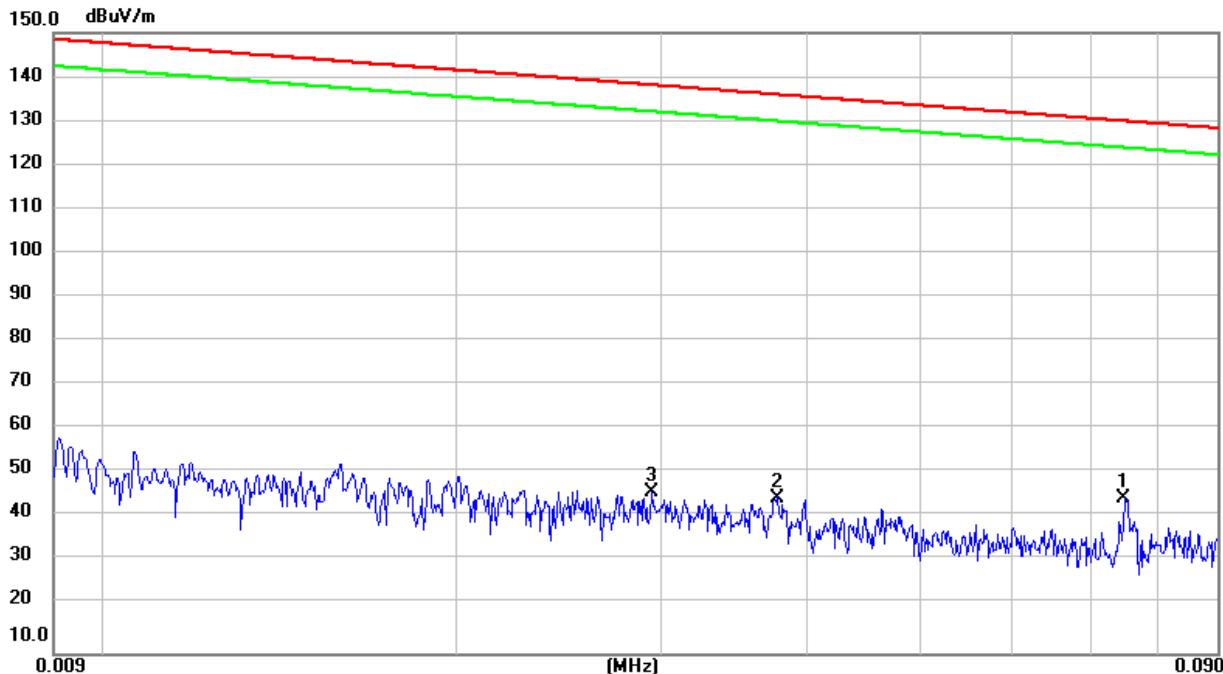
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	0.1330	55.18	25.40	80.58	125.12	-44.54	peak	100	0	P	
2	0.3029	26.81	25.82	52.63	117.98	-65.35	peak	100	0	P	
3	0.3975	34.23	25.76	59.99	115.62	-55.63	peak	100	0	P	

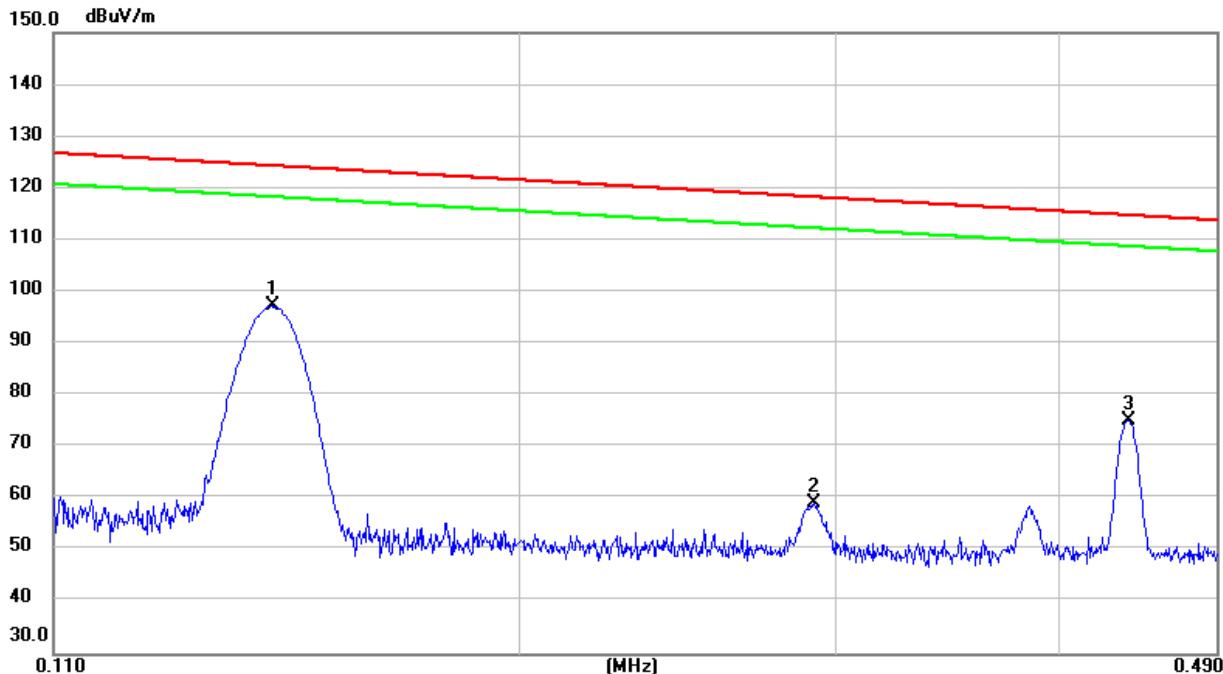
Test Data of Radiated Emissions from 9kHz to 30MHz																			
Test Mode:		TM1			Phase:		Coplaner												
Test Voltage:		AC 120V/60Hz																	
Remark:																			
																			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark								
1	0.0312	25.47	33.49	58.96	117.71	-58.75	QP	100	0	P									
2	0.0621	21.40	27.01	48.41	111.73	-63.32	QP	100	0	P									
3	0.1573	27.88	25.76	53.64	103.66	-50.02	QP	100	0	P									
4	0.2847	25.89	25.81	51.70	98.51	-46.81	QP	100	0	P									
5 *	0.6647	24.19	25.71	49.90	71.15	-21.25	QP	100	0	P									
6	0.1332	43.96	25.40	69.36	105.11	-35.75	QP	100	0	P									

Test Mode:	TM1	Phase:	Coaxial								
Test Voltage:	AC 120V/60Hz										
Remark:	-										
											
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	0.0745	20.65	26.15	46.80	130.15	-83.35	peak	100	360	P	
2	0.0157	17.40	35.37	52.77	143.67	-90.90	peak	100	360	P	
3	0.0581	12.78	27.39	40.17	132.31	-92.14	peak	100	360	P	

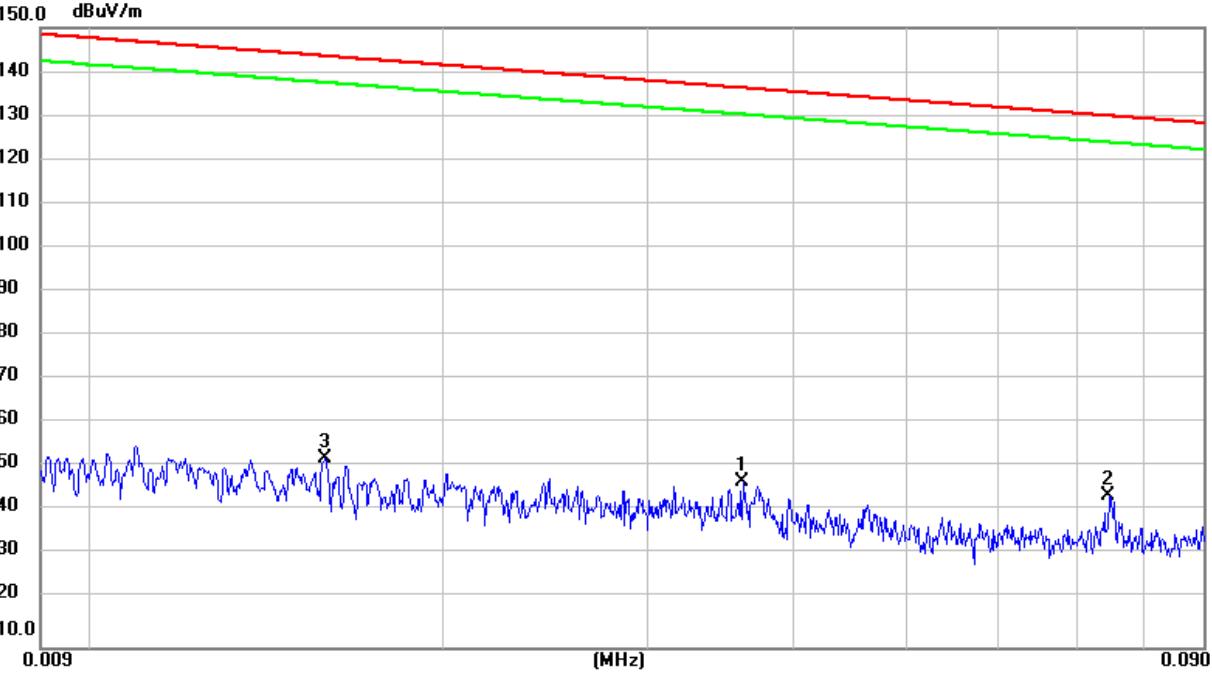
Test Mode:	TM1	Phase:	Coaxial								
Test Voltage:	AC 120V/60Hz										
Remark:											
											
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	0.1275	56.63	25.39	82.02	125.49	-43.47	peak	100	360	P	
2	0.3002	25.91	25.82	51.73	118.05	-66.32	peak	100	360	P	
3	0.3847	35.22	25.76	60.98	115.90	-54.92	peak	100	360	P	

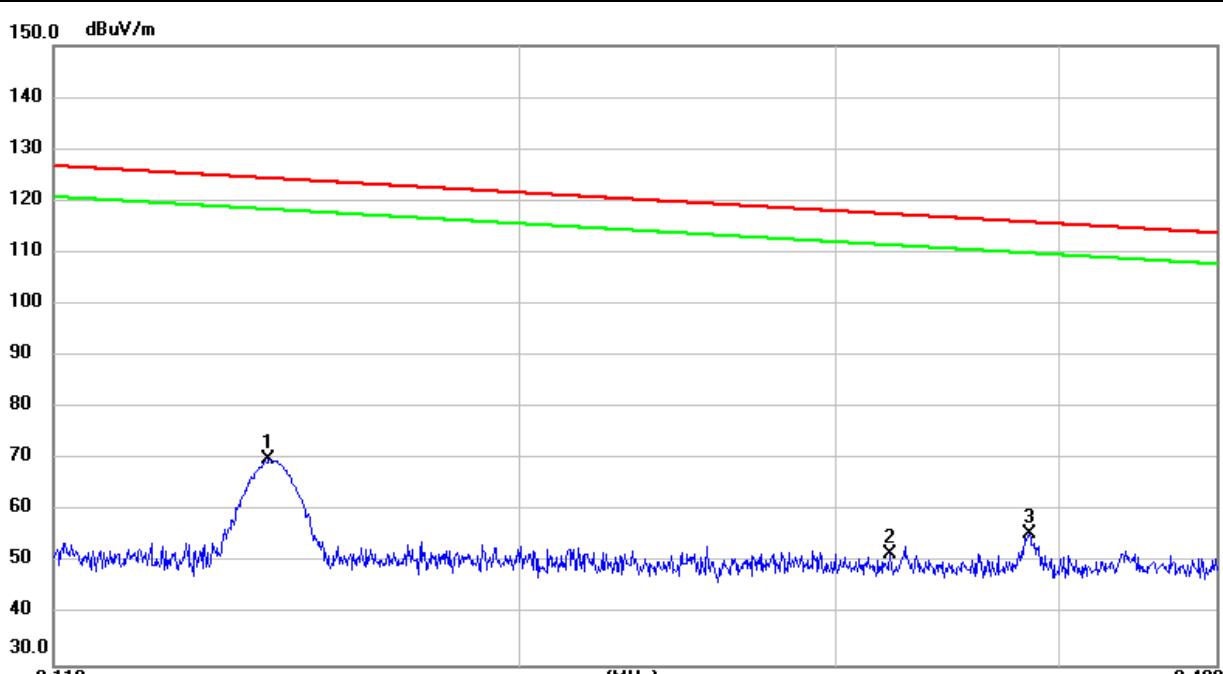
Test Mode:	TM1	Phase:	Coaxial																																																																																				
Test Voltage:	AC 120V/60Hz																																																																																						
Remark:																																																																																							
																																																																																							
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																																																												
1	0.0094	19.06	36.01	55.07	128.12	-73.05	QP	100	0	P																																																																													
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6 *	0.1280	48.82	25.38	74.20	105.45	-31.25	QP	100	0	P																																																																													

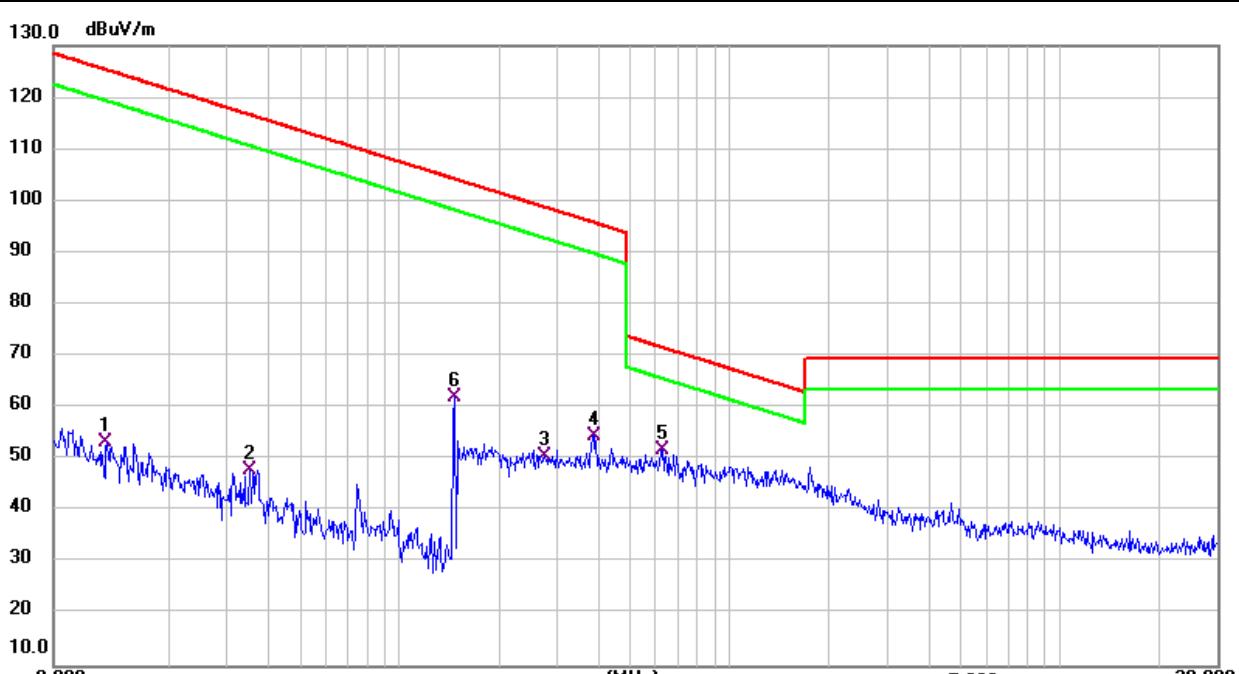
Test Data of Radiated Emissions from 9kHz to 30MHz																			
Test Mode:		TM2			Phase:		Coplaner												
Test Voltage:		DC 3.85V																	
Remark:																			
																			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark								
1 *	0.0748	19.04	26.14	45.18	130.12	-84.94	peak	100	360	P									
2	0.0376	13.58	31.71	45.29	136.09	-90.80	peak	100	360	P									
3	0.0293	12.62	33.95	46.57	138.25	-91.68	peak	100	360	P									

Test Data of Radiated Emissions from 9kHz to 30MHz																		
Test Mode:		TM2			Phase:		Coplaner											
Test Voltage:		DC 3.85V																
Remark:																		
																		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark							
1 *	0.1457	71.56	25.68	97.24	124.33	-27.09	peak	100	0	P								
2	0.2922	33.48	25.82	59.30	118.29	-58.99	peak	100	0	P								
3	0.4374	49.55	25.70	75.25	114.79	-39.54	peak	100	0	P								

Test Data of Radiated Emissions from 9kHz to 30MHz																		
Test Mode:		TM2			Phase:		Coplaner											
Test Voltage:		DC 3.85V																
Remark:																		
																		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark							
1	0.0352	19.72	32.37	52.09	116.66	-64.57	QP	100	0	P								
2	0.2243	24.56	25.76	50.32	100.58	-50.26	QP	100	0	P								
3	0.3410	24.04	25.79	49.83	96.95	-47.12	QP	100	0	P								
4	0.4351	28.00	25.70	53.70	94.83	-41.13	QP	100	0	P								
5 *	1.4256	22.73	25.99	48.72	64.52	-15.80	QP	100	0	P								
6	0.1461	61.49	25.68	87.17	104.31	-17.14	QP	100	0	P								

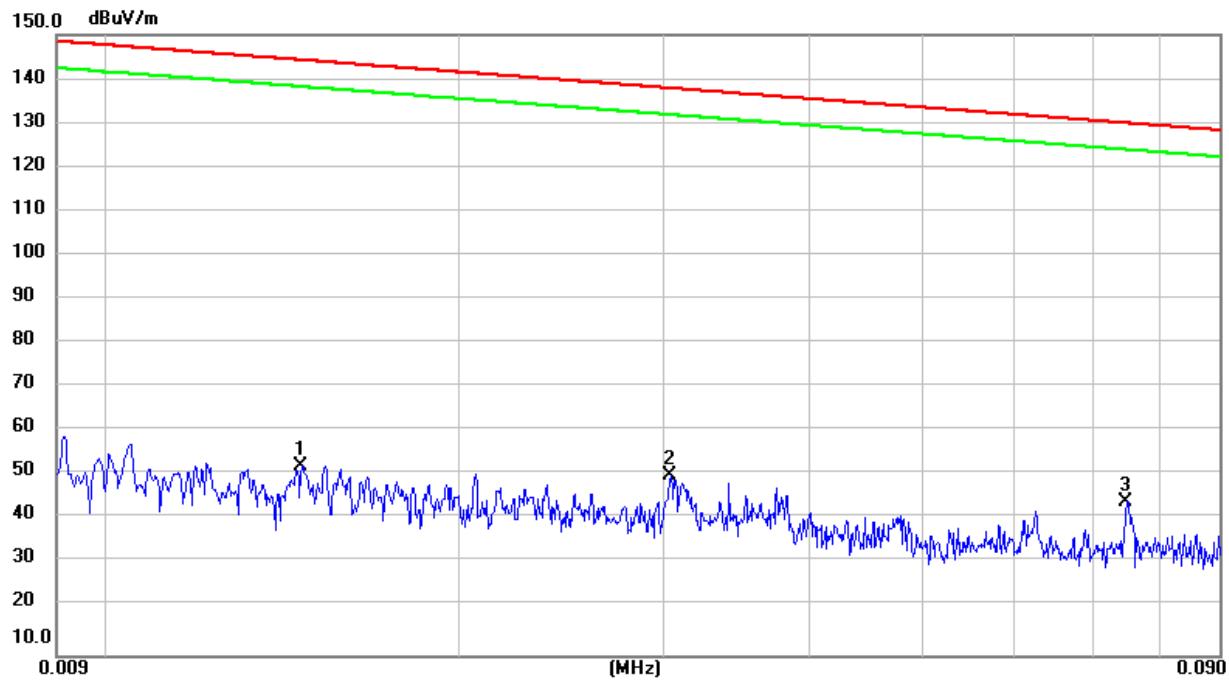
Test Mode:	TM2	Phase:	Coaxial																																																
Test Voltage:	DC 3.85V																																																		
Remark:																																																			
																																																			
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																								
1	0.0361	15.55	32.13	47.68	136.44	-88.76	peak	100	360	P																																									
2 *	0.0745	18.48	26.15	44.63	130.15	-85.52	peak	100	360	P																																									
3	0.0158	17.63	35.36	52.99	143.61	-90.62	peak	100	360	P																																									

Test Mode:	TM2	Phase:	Coaxial								
Test Voltage:	DC 3.85V										
Remark:											
											
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	0.1450	44.36	25.66	70.02	124.37	-54.35	peak	100	360	P	
2	0.3220	26.02	25.80	51.82	117.44	-65.62	peak	100	360	P	
3	0.3852	29.82	25.76	55.58	115.89	-60.31	peak	100	360	P	

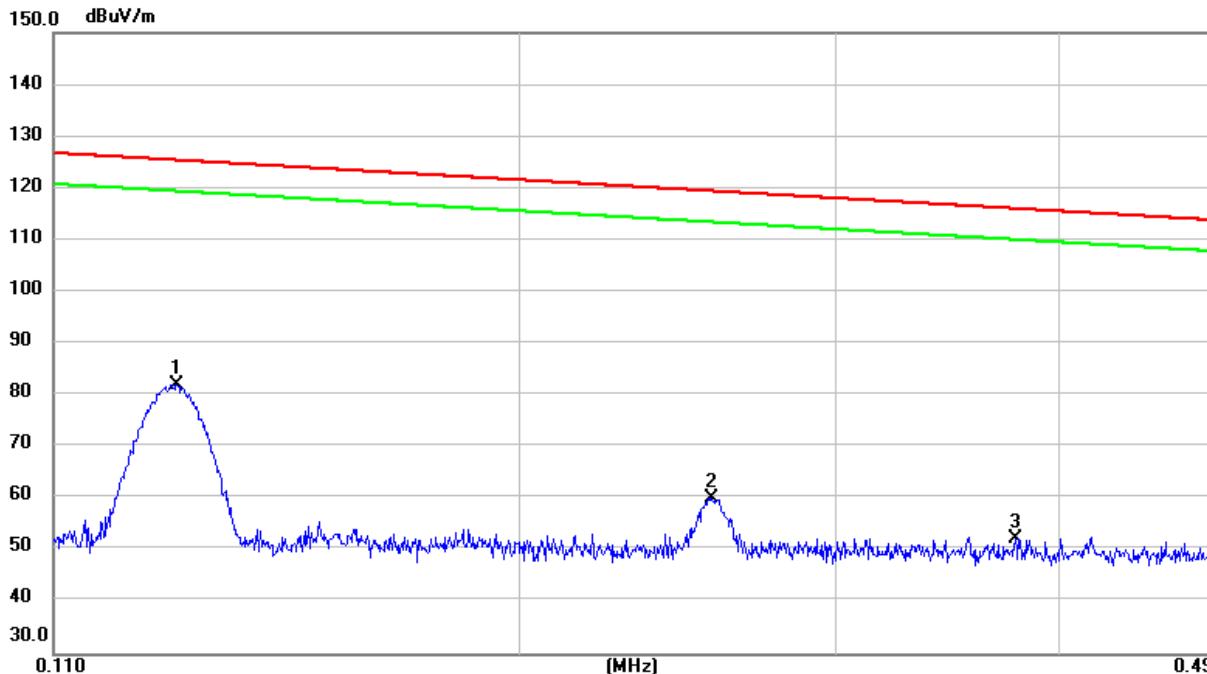
Test Mode:	TM2	Phase:	Coaxial								
Test Voltage:	DC 3.85V										
Remark:											
											
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	0.0130	17.68	35.64	53.32	125.31	-71.99	QP	100	0	P	
2	0.0352	15.69	32.37	48.06	116.66	-68.60	QP	100	0	P	
3	0.2744	24.88	25.81	50.69	98.83	-48.14	QP	100	0	P	
4	0.3871	28.89	25.76	54.65	95.85	-41.20	QP	100	0	P	
5 *	0.6238	26.27	25.67	51.94	71.70	-19.76	QP	100	0	P	
6	0.1461	36.50	25.68	62.18	104.31	-42.13	QP	100	0	P	

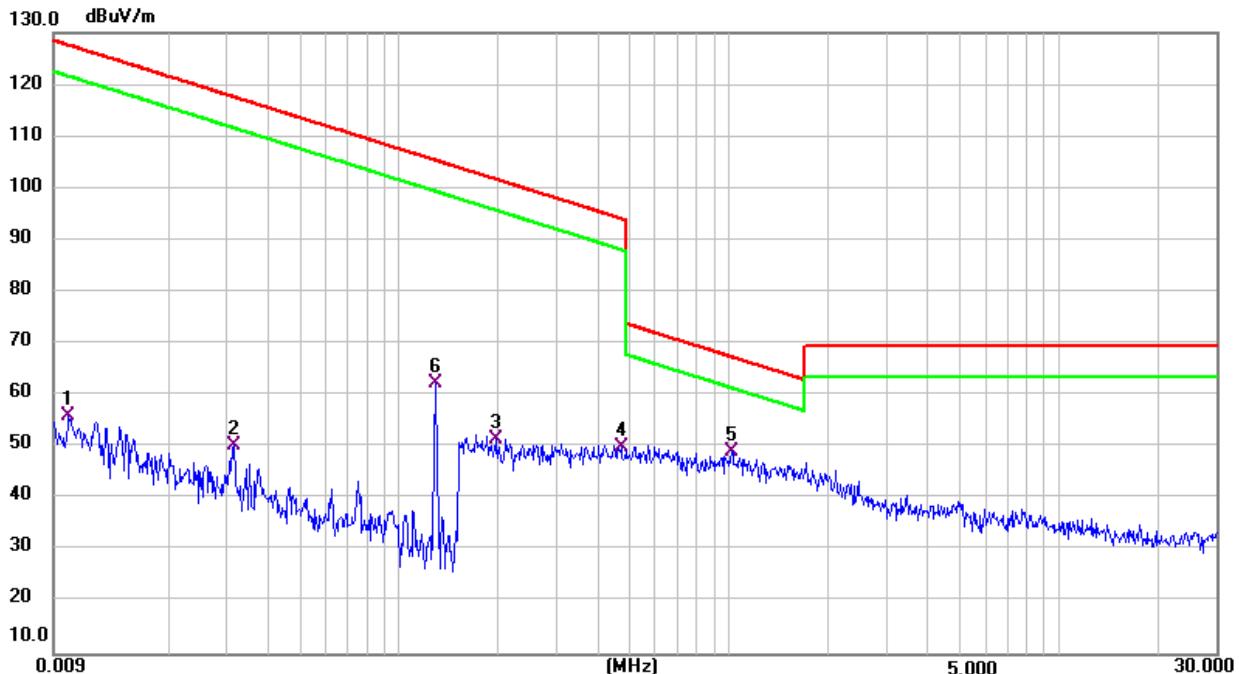
Test Data of Radiated Emissions from 9kHz to 30MHz

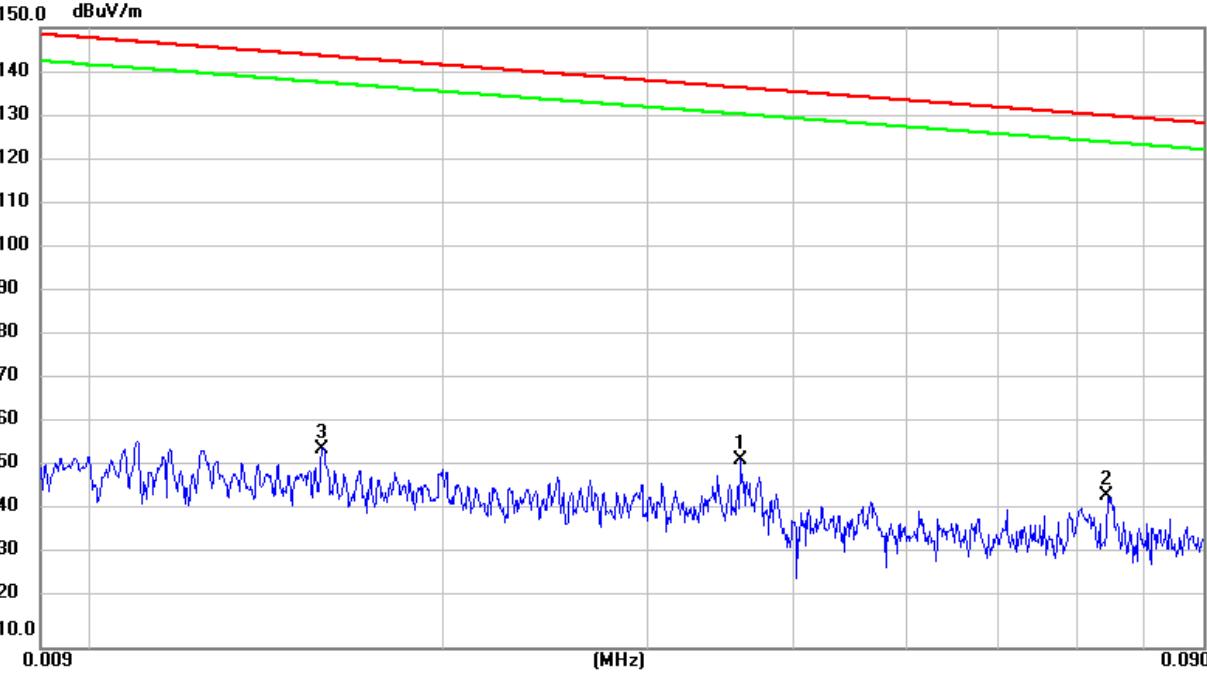
Test Mode:	TM6	Phase:	Coplaner
Test Voltage:	AC 120V/60Hz		
Remark:			

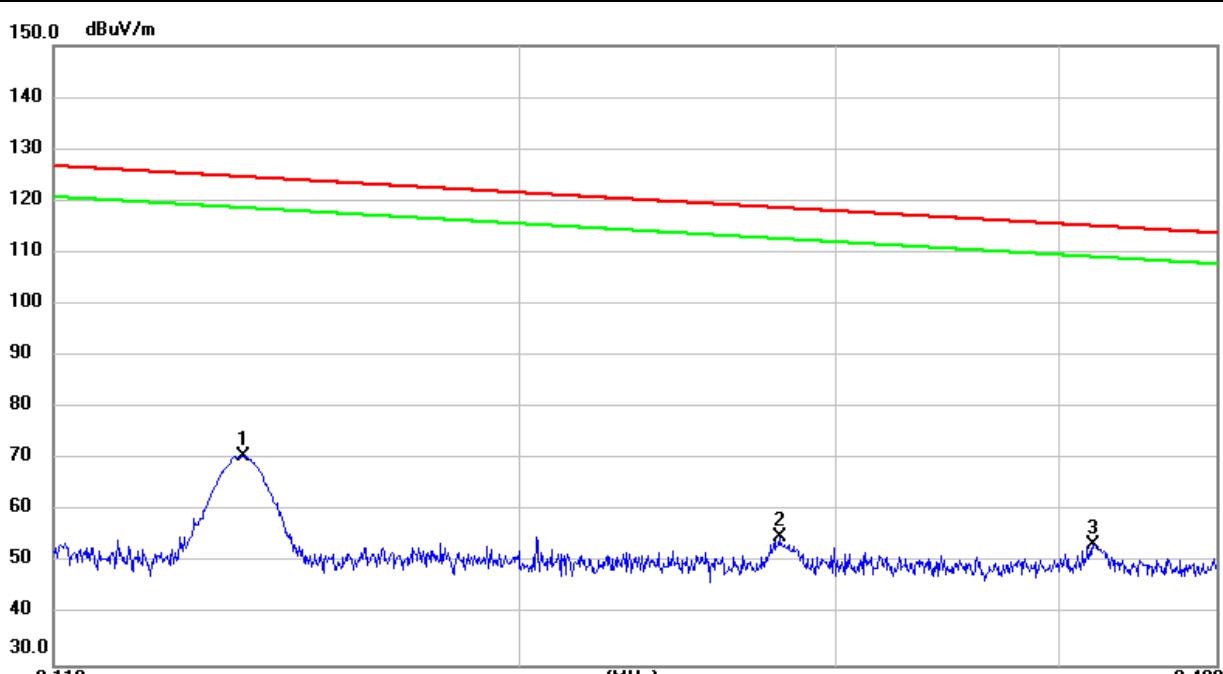


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	0.0146	17.37	35.48	52.85	144.30	-91.45	peak	100	360	P	
2	0.0303	16.87	33.78	50.65	137.96	-87.31	peak	100	360	P	
3 *	0.0748	18.67	26.14	44.81	130.12	-85.31	peak	100	360	P	

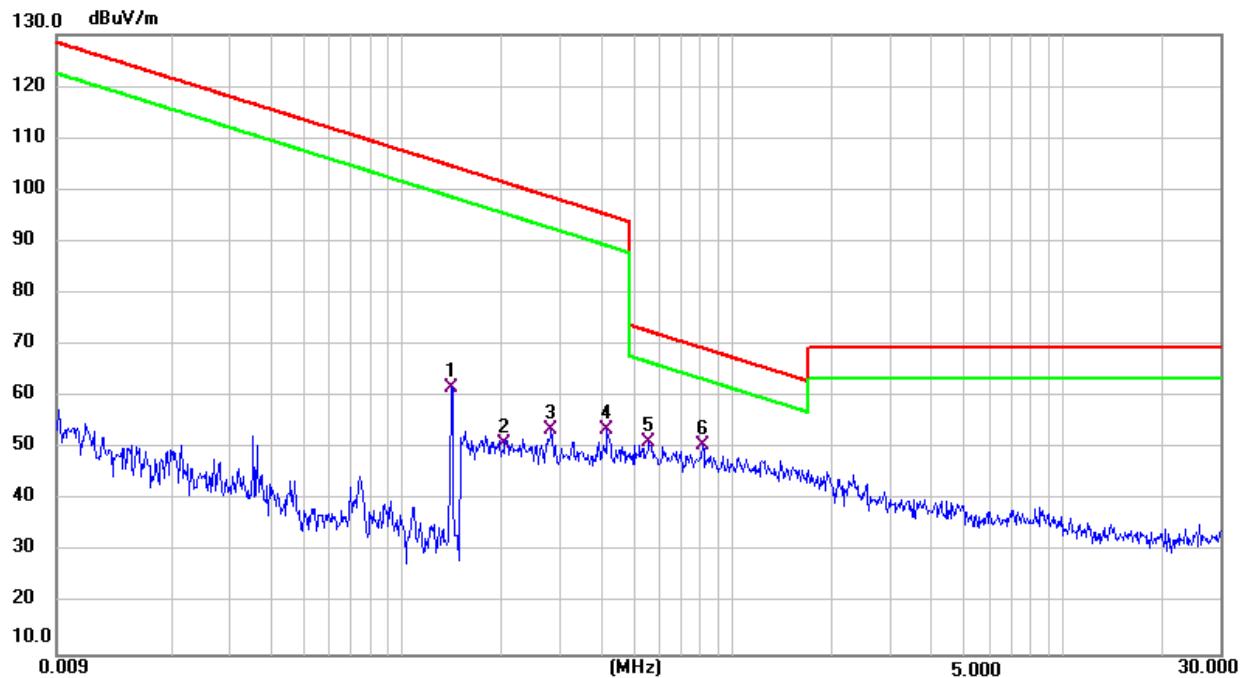
Test Data of Radiated Emissions from 9kHz to 30MHz																			
Test Mode:		TM6			Phase:		Coplaner												
Test Voltage:		AC 120V/60Hz																	
Remark:																			
																			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark								
1 *	0.1289	56.78	25.37	82.15	125.39	-43.24	peak	100	0	P									
2	0.2562	34.31	25.80	60.11	119.43	-59.32	peak	100	0	P									
3	0.3784	26.66	25.77	52.43	116.04	-63.61	peak	100	0	P									

Test Data of Radiated Emissions from 9kHz to 30MHz																		
Test Mode:		TM6			Phase:		Coplaner											
Test Voltage:		AC 120V/60Hz																
Remark:																		
																		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark							
1	0.0100	20.11	35.94	56.05	127.59	-71.54	QP	100	360	P								
2	0.0316	16.95	33.38	50.33	117.60	-67.27	QP	100	360	P								
3	0.1965	25.65	25.76	51.41	101.73	-50.32	QP	100	360	P								
4	0.4686	24.28	25.67	49.95	94.19	-44.24	QP	100	360	P								
5 *	1.0156	23.22	25.92	49.14	67.46	-18.32	QP	100	360	P								
6	0.1287	36.91	25.37	62.28	105.41	-43.13	QP	100	360	P								

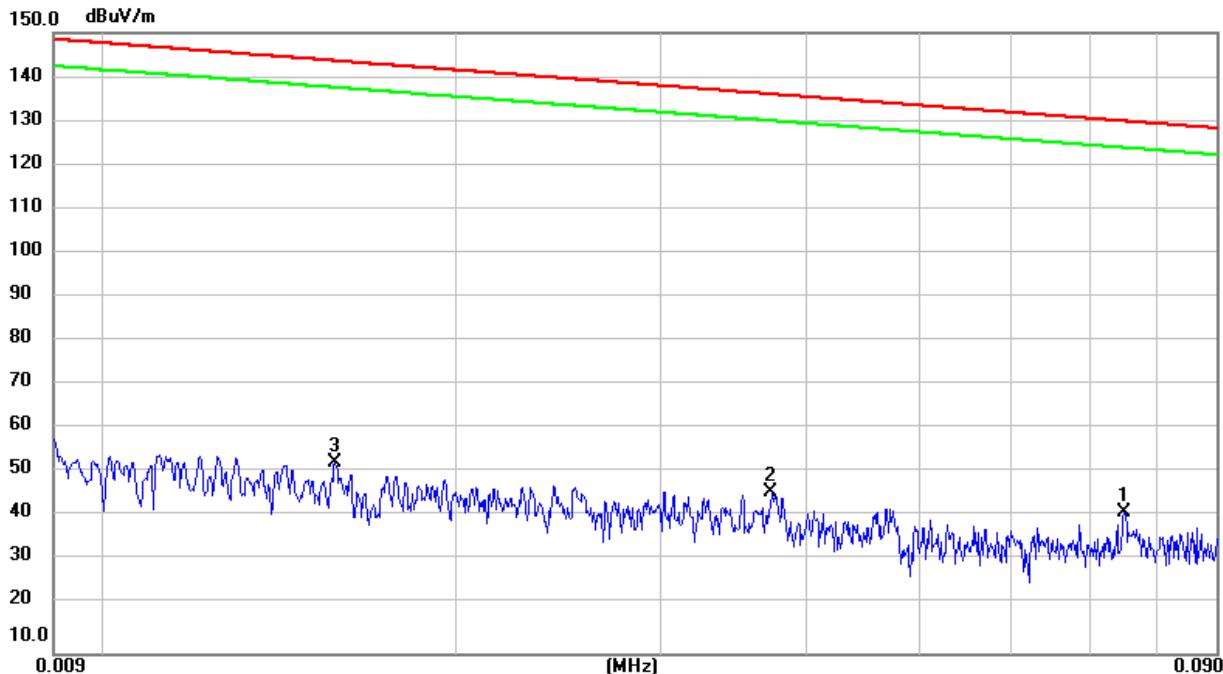
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																								
1 *	0.0360	20.34	32.16	52.50	136.47	-83.97	peak	100	360	P																																									
2	0.0743	18.36	26.15	44.51	130.18	-85.67	peak	100	360	P																																									
3	0.0157	19.49	35.37	54.86	143.67	-88.81	peak	100	360	P																																									

Test Mode:	TM6	Phase:	Coaxial								
Test Voltage:	AC 120V/60Hz										
Remark:											
											
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	0.1403	45.14	25.56	70.70	124.66	-53.96	peak	100	360	P	
2	0.2794	29.31	25.80	55.11	118.68	-63.57	peak	100	360	P	
3	0.4182	27.96	25.72	53.68	115.18	-61.50	peak	100	360	P	

Test Mode:	TM6	Phase:	Coaxial
Test Voltage:	AC 120V/60Hz		
Remark:			

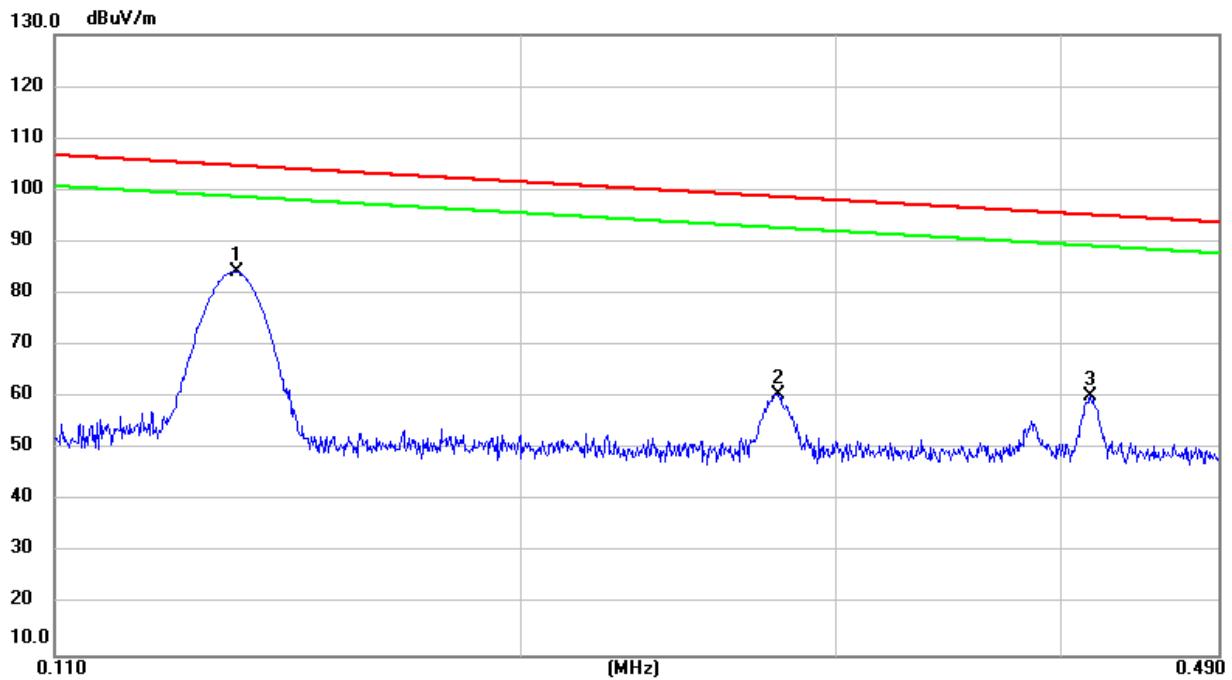


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	0.1409	36.12	25.57	61.69	104.62	-42.93	QP	100	0	P	
2	0.2040	25.25	25.76	51.01	101.41	-50.40	QP	100	0	P	
3	0.2816	27.72	25.81	53.53	98.61	-45.08	QP	100	0	P	
4	0.4148	28.05	25.73	53.78	95.25	-41.47	QP	100	0	P	
5	0.5551	25.48	25.63	51.11	72.72	-21.61	QP	100	0	P	
6 *	0.8087	24.75	25.82	50.57	69.44	-18.87	QP	100	0	P	

Test Data of Radiated Emissions from 9kHz to 30MHz																			
Test Mode:		TM7			Phase:		Coplaner												
Test Voltage:		DC 3.85V																	
Remark:																			
																			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark								
1 *	0.0750	15.99	26.14	42.13	130.09	-87.96	peak	100	360	P									
2	0.0372	14.92	31.82	46.74	136.18	-89.44	peak	100	360	P									
3	0.0157	18.00	35.37	53.37	143.67	-90.30	peak	100	360	P									

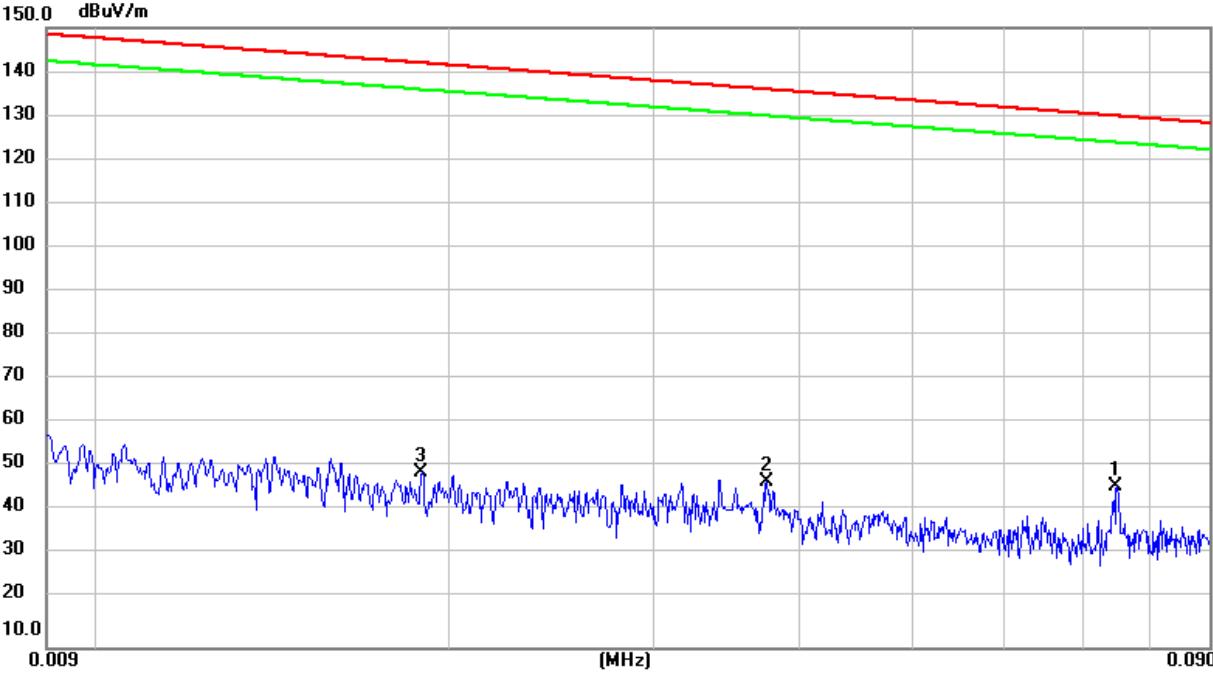
Test Data of Radiated Emissions from 9kHz to 30MHz

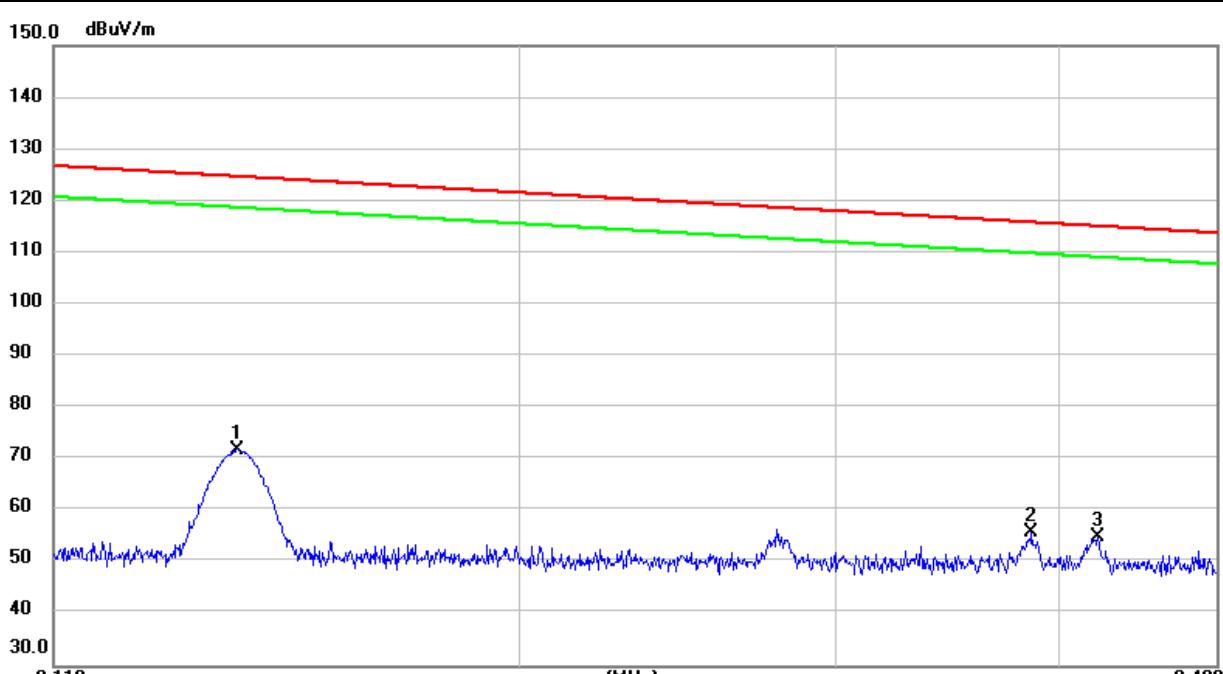
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Test Voltage:	DC 3.85V		
Remark:			



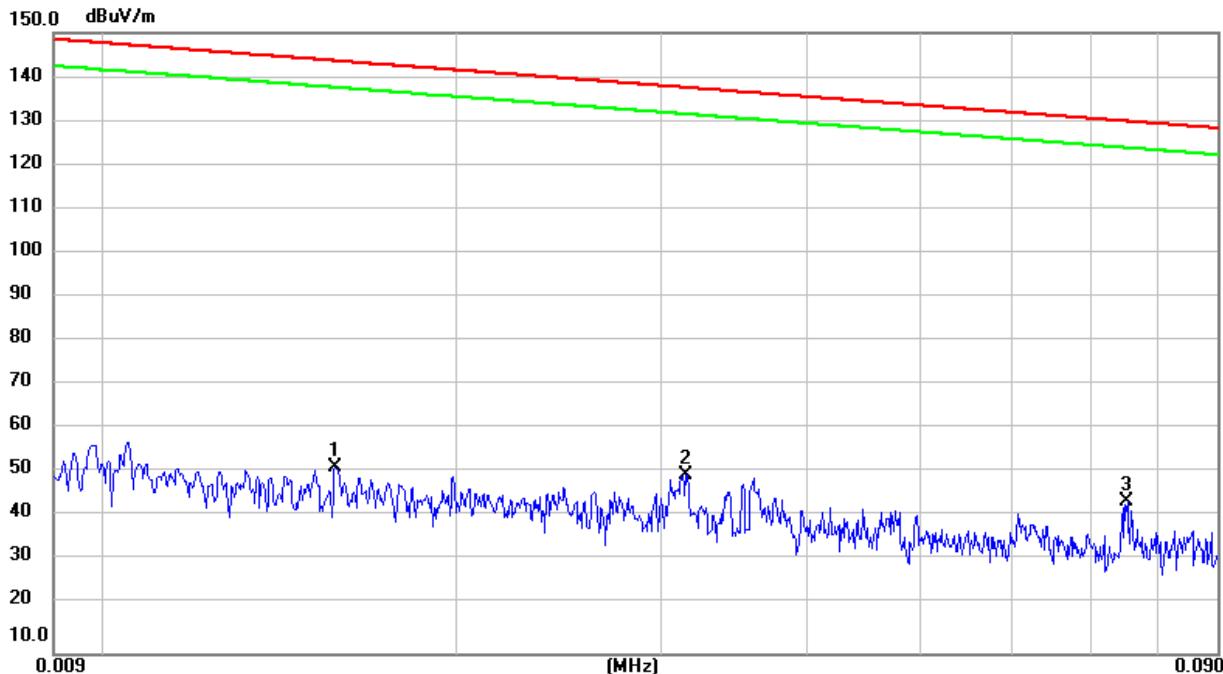
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	0.1389	58.81	25.53	84.34	104.74	-20.40	peak	100	0	P	
2	0.2785	34.76	25.80	60.56	98.70	-38.14	peak	100	0	P	
3	0.4157	34.38	25.73	60.11	95.23	-35.12	peak	100	0	P	

Test Data of Radiated Emissions from 9kHz to 30MHz																			
Test Mode:		TM7			Phase:		Coplaner												
Test Voltage:		DC 3.85V																	
Remark:																			
																			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark								
1	0.0104	19.47	35.90	55.37	127.24	-71.87	QP	100	360	P									
2	0.0352	21.77	32.37	54.14	116.66	-62.52	QP	100	360	P									
3	0.2316	25.52	25.77	51.29	100.31	-49.02	QP	100	360	P									
4	0.4328	25.47	25.71	51.18	94.88	-43.70	QP	100	360	P									
5 *	0.6900	25.09	25.74	50.83	70.82	-19.99	QP	100	360	P									
6	0.1389	37.00	25.53	62.53	104.74	-42.21	QP	100	360	P									

Test Mode:	TM7	Phase:	Coaxial																																																
Test Voltage:	DC 3.85V																																																		
Remark:																																																			
																																																			
<table border="1"><thead><tr><th>No.</th><th>Frequency (MHz)</th><th>Reading (dBuV)</th><th>Factor (dB/m)</th><th>Level (dBuV/m)</th><th>Limit (dBuV/m)</th><th>Margin (dB)</th><th>Detector</th><th>Height (cm)</th><th>Azimuth (deg.)</th><th>P/F</th><th>Remark</th></tr></thead><tbody><tr><td>1 *</td><td>0.0748</td><td>20.59</td><td>26.14</td><td>46.73</td><td>130.12</td><td>-83.39</td><td>peak</td><td>100</td><td>360</td><td>P</td><td></td></tr><tr><td>2</td><td>0.0374</td><td>15.92</td><td>31.76</td><td>47.68</td><td>136.13</td><td>-88.45</td><td>peak</td><td>100</td><td>360</td><td>P</td><td></td></tr><tr><td>3</td><td>0.0190</td><td>14.81</td><td>35.02</td><td>49.83</td><td>142.01</td><td>-92.18</td><td>peak</td><td>100</td><td>360</td><td>P</td><td></td></tr></tbody></table>				No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark	1 *	0.0748	20.59	26.14	46.73	130.12	-83.39	peak	100	360	P		2	0.0374	15.92	31.76	47.68	136.13	-88.45	peak	100	360	P		3	0.0190	14.81	35.02	49.83	142.01	-92.18	peak	100	360	P	
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																								
1 *	0.0748	20.59	26.14	46.73	130.12	-83.39	peak	100	360	P																																									
2	0.0374	15.92	31.76	47.68	136.13	-88.45	peak	100	360	P																																									
3	0.0190	14.81	35.02	49.83	142.01	-92.18	peak	100	360	P																																									

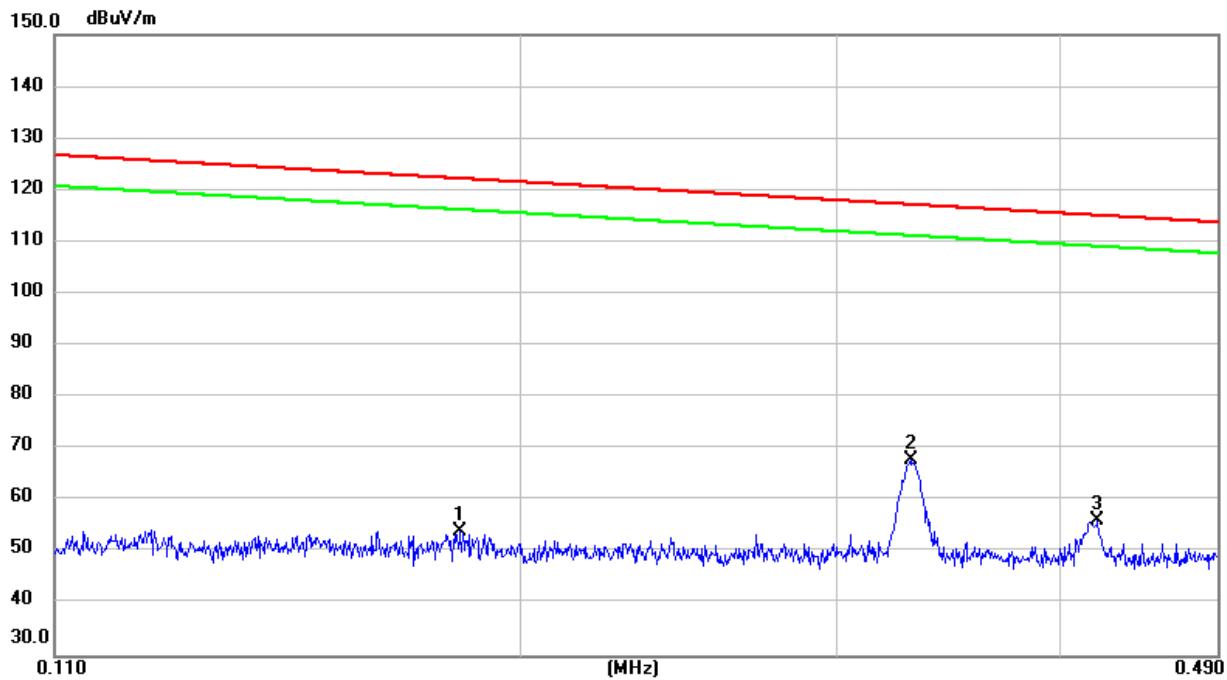
Test Mode:	TM7	Phase:	Coaxial								
Test Voltage:	DC 3.85V										
Remark:											
											
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	0.1392	46.47	25.53	72.00	124.73	-52.73	peak	100	360	P	
2	0.3864	30.05	25.76	55.81	115.86	-60.05	peak	100	360	P	
3	0.4207	29.20	25.72	54.92	115.12	-60.20	peak	100	360	P	

Test Mode:	TM7	Phase:	Coaxial								
Test Voltage:	DC 3.85V										
Remark:											
											
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	0.0112	19.24	35.83	55.07	126.60	-71.53	QP	100	0	P	
2	0.1398	36.79	25.55	62.34	104.69	-42.35	QP	100	0	P	
3	0.3268	25.76	25.81	51.57	97.32	-45.75	QP	100	0	P	
4	0.4192	28.29	25.72	54.01	95.15	-41.14	QP	100	0	P	
5	0.6172	24.24	25.67	49.91	71.79	-21.88	QP	100	0	P	
6 *	1.5032	21.05	26.00	47.05	64.06	-17.01	QP	100	0	P	

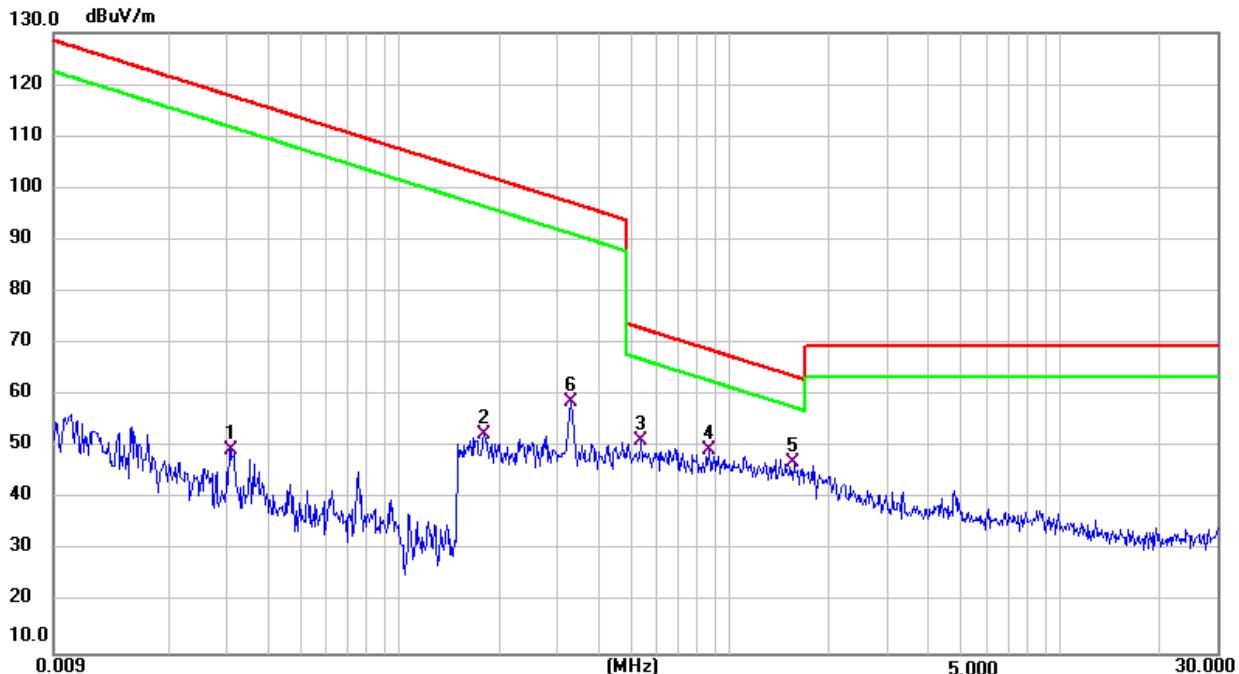
Test Data of Radiated Emissions from 9kHz to 30MHz																			
Test Mode:		TM8			Phase:		Coplaner												
Test Voltage:		AC 120V/60Hz																	
Remark:																			
																			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark								
1	0.0157	16.83	35.37	52.20	143.67	-91.47	peak	100	360	P									
2	0.0314	16.97	33.46	50.43	137.65	-87.22	peak	100	360	P									
3 *	0.0752	18.20	26.14	44.34	130.07	-85.73	peak	100	360	P									

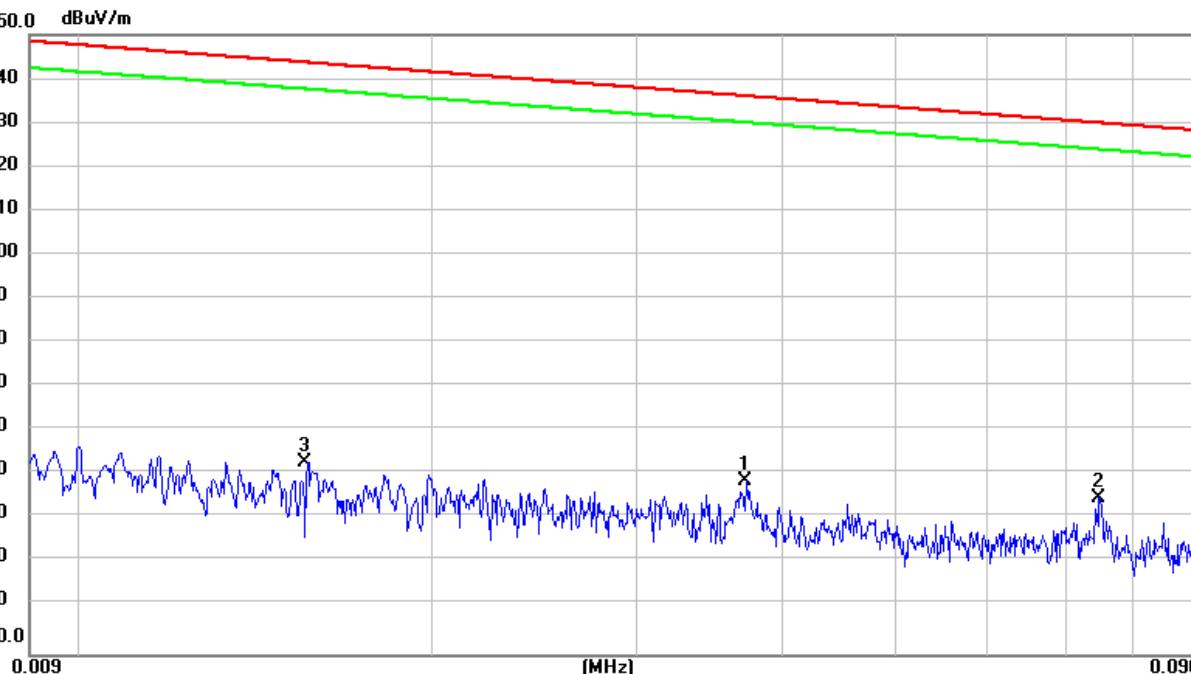
Test Data of Radiated Emissions from 9kHz to 30MHz

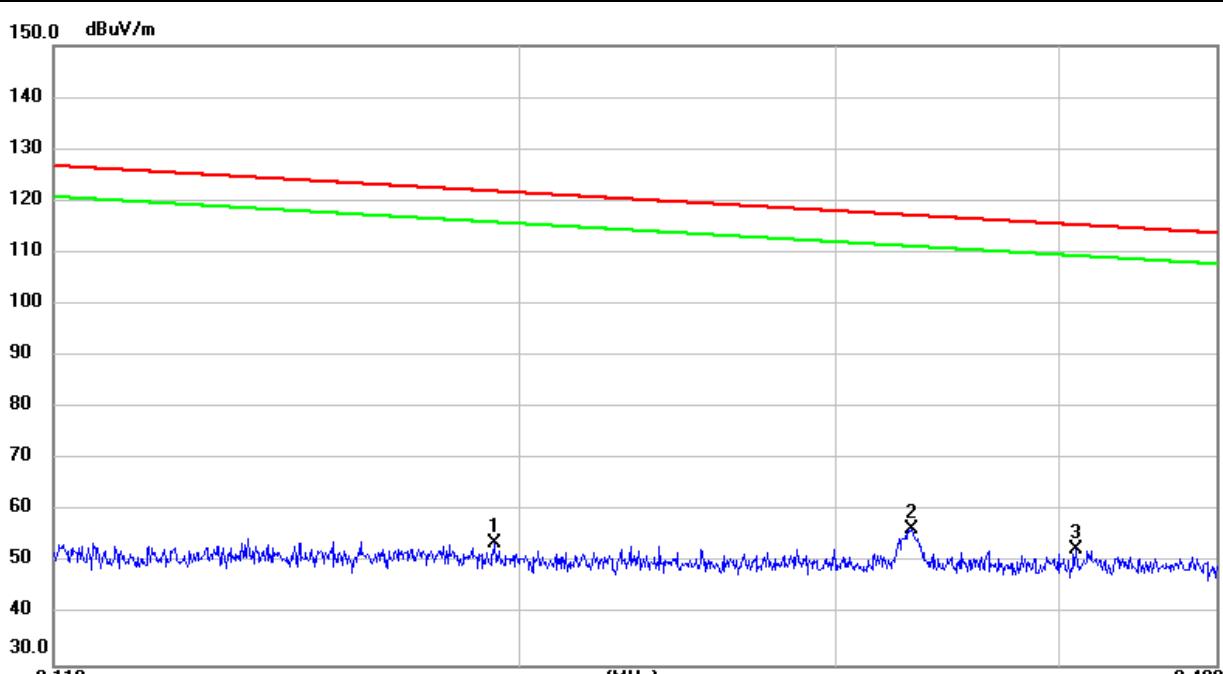
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Test Voltage:	AC 120V/60Hz		
Remark:			

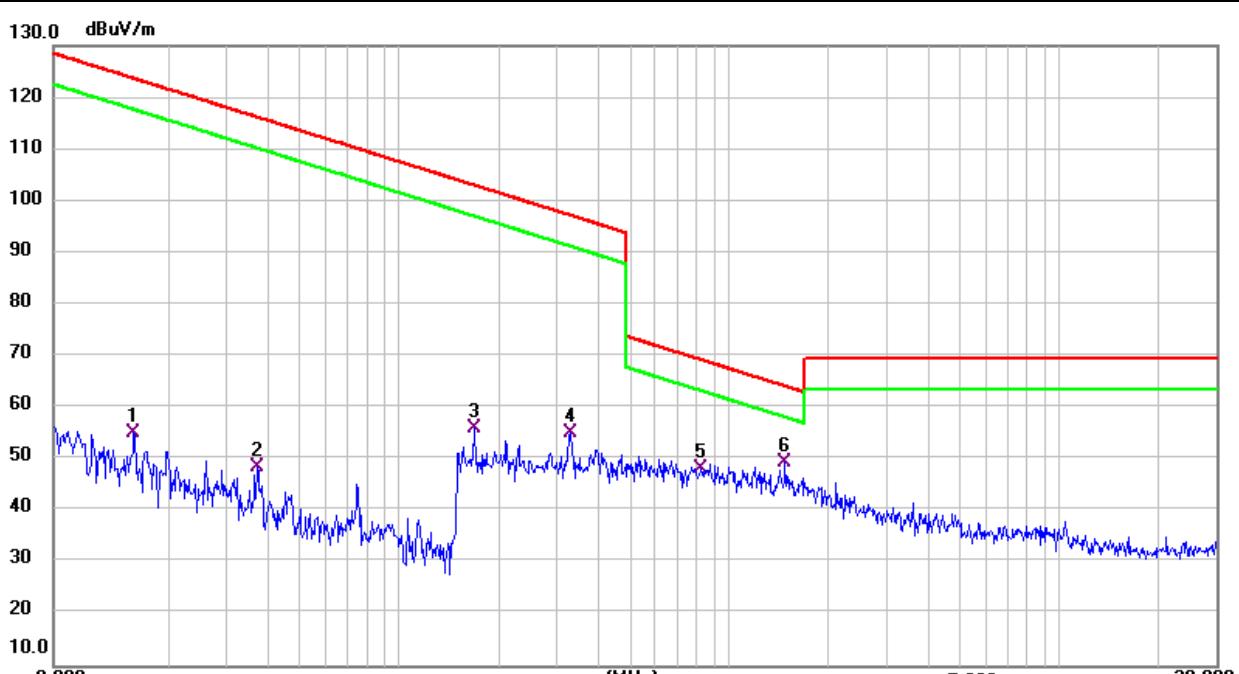


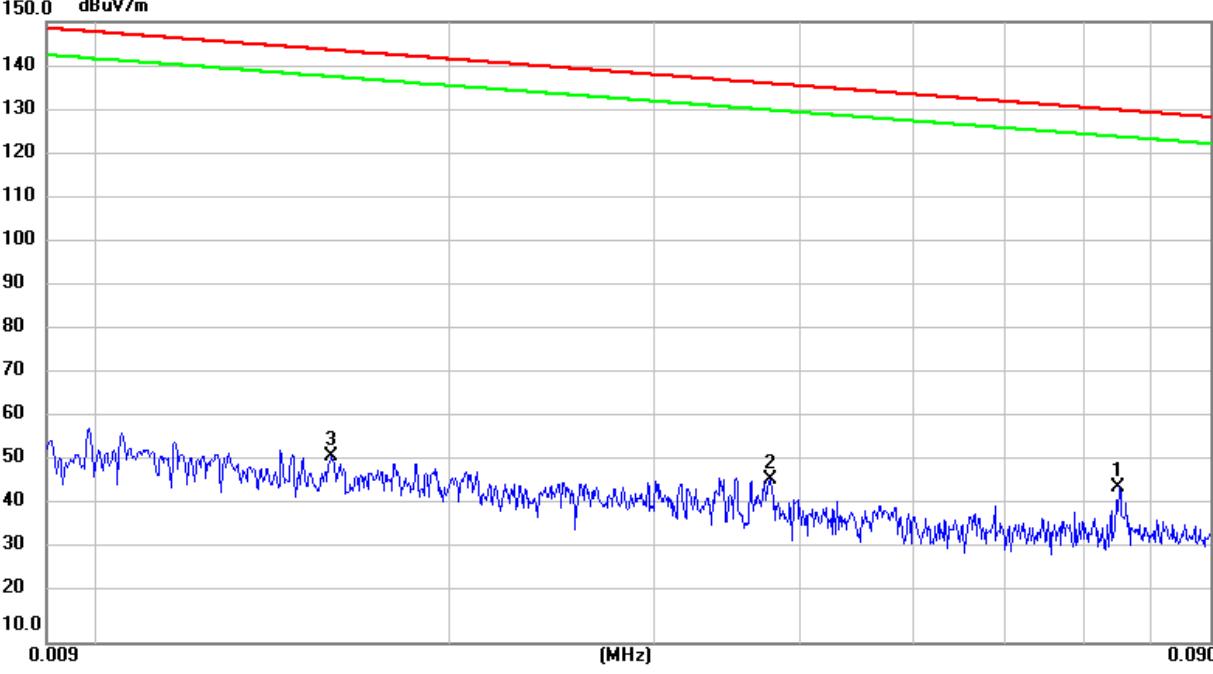
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	0.1853	28.42	25.76	54.18	122.24	-68.06	peak	100	0	P	
2 *	0.3303	42.11	25.80	67.91	117.22	-49.31	peak	100	0	P	
3	0.4201	30.42	25.72	56.14	115.14	-59.00	peak	100	0	P	

Test Data of Radiated Emissions from 9kHz to 30MHz																		
Test Mode:		TM8			Phase:		Coplaner											
Test Voltage:		AC 120V/60Hz																
Remark:																		
																		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark							
1	0.0307	15.86	33.64	49.50	117.85	-68.35	QP	100	0	P								
2	0.1796	26.58	25.76	52.34	102.51	-50.17	QP	100	0	P								
3	0.5406	25.74	25.65	51.39	72.95	-21.56	QP	100	0	P								
4	0.8618	23.48	25.86	49.34	68.89	-19.55	QP	100	0	P								
5 *	1.5599	20.90	26.01	46.91	63.73	-16.82	QP	100	0	P								
6	0.3302	33.03	25.80	58.83	97.23	-38.40	QP	100	0	P								

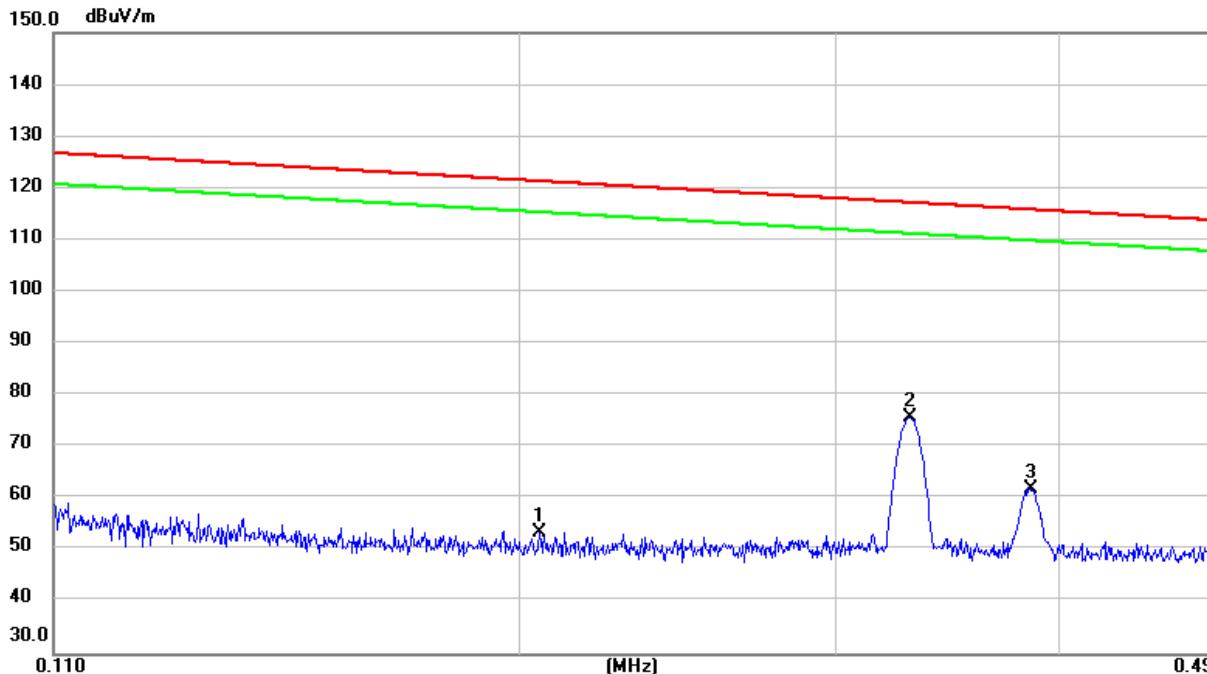
Test Mode:	TM8	Phase:	Coaxial																																																
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																								
1	0.0371	17.48	31.85	49.33	136.20	-86.87	peak	100	360	P																																									
2 *	0.0748	19.49	26.14	45.63	130.12	-84.49	peak	100	360	P																																									
3	0.0155	18.08	35.39	53.47	143.78	-90.31	peak	100	360	P																																									

Test Mode:	TM8	Phase:	Coaxial																																																
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																								
1	0.1938	27.96	25.75	53.71	121.85	-68.14	peak	100	360	P																																									
2 *	0.3313	30.78	25.80	56.58	117.20	-60.62	peak	100	360	P																																									
3	0.4090	26.87	25.73	52.60	115.37	-62.77	peak	100	360	P																																									

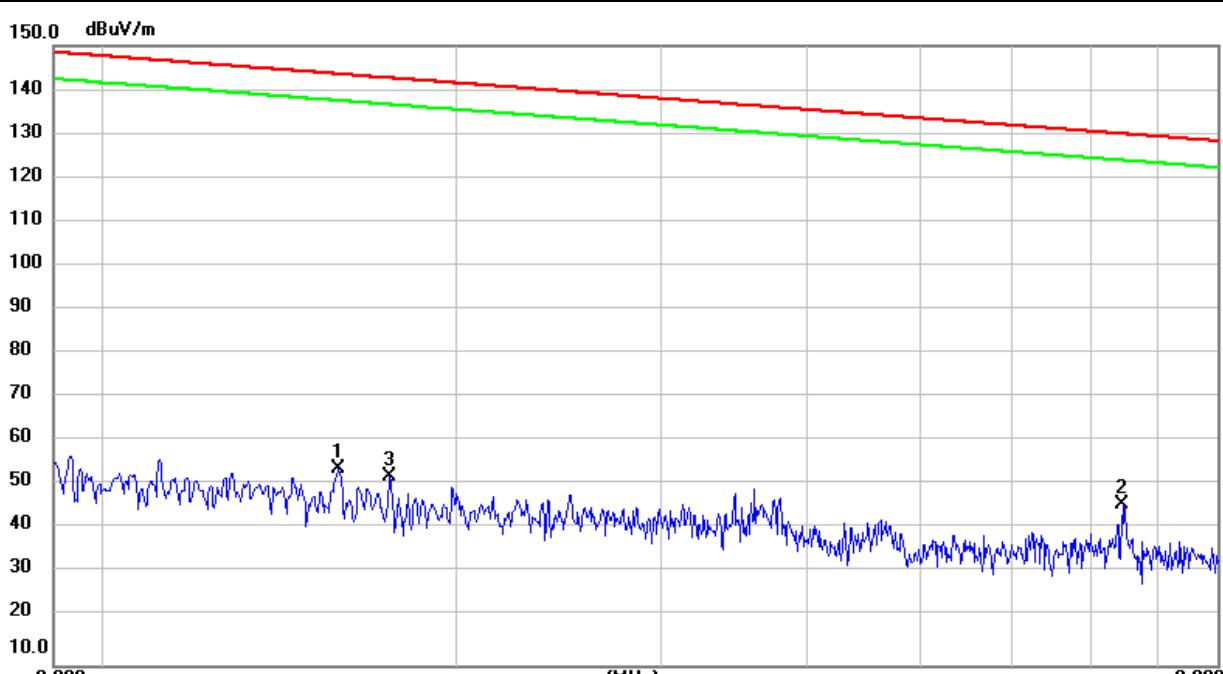
Test Mode:	TM8	Phase:	Coaxial																																																																																				
Test Voltage:	AC 120V/60Hz																																																																																						
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																																																												
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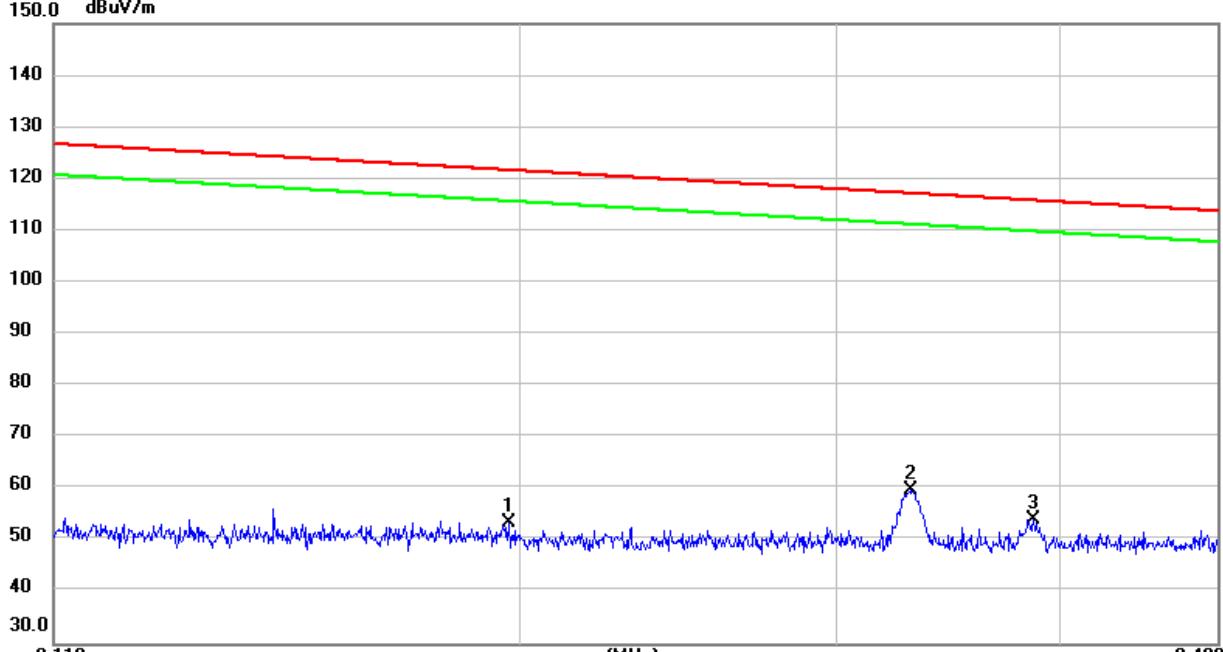
Test Data of Radiated Emissions from 9kHz to 30MHz																			
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Test Voltage:		DC 3.85V																	
Remark:																			
																			
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark								
1 *	0.0750	18.94	26.14	45.08	130.09	-85.01	peak	100	360	P									
2	0.0376	15.12	31.71	46.83	136.09	-89.26	peak	100	360	P									
3	0.0158	16.73	35.36	52.09	143.61	-91.52	peak	100	360	P									

Test Data of Radiated Emissions from 9kHz to 30MHz

Test Mode:	TM9	Phase:	Coplaner																																																
Test Voltage:	DC 3.85V																																																		
Remark:																																																			
																																																			
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																								
1	0.2054	27.66	25.76	53.42	121.35	-67.93	peak	100	0	P																																									
2 *	0.3303	49.96	25.80	75.76	117.22	-41.46	peak	100	0	P																																									
3	0.3858	36.26	25.76	62.02	115.88	-53.86	peak	100	0	P																																									

Test Data of Radiated Emissions from 9kHz to 30MHz																		
Test Mode:		TM9			Phase:		Coplaner											
Test Voltage:		DC 3.85V																
Remark:																		
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark							
1	0.0372	13.91	31.80	45.71	116.18	-70.47	QP	100	0	P								
2	0.1954	25.54	25.75	51.29	101.78	-50.49	QP	100	0	P								
3 *	0.6611	34.09	25.69	59.78	71.20	-11.42	QP	100	0	P								
4	0.9891	24.52	25.92	50.44	67.69	-17.25	QP	100	0	P								
5	1.6537	21.53	26.03	47.56	63.23	-15.67	QP	100	0	P								
6	0.3302	45.12	25.80	70.92	97.23	-26.31	QP	100	0	P								

Test Mode:	TM9	Phase:	Coaxial																																																
Test Voltage:	DC 3.85V																																																		
Remark:																																																			
																																																			
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																								
1	0.0158	19.24	35.36	54.60	143.61	-89.01	peak	100	360	P																																									
2 *	0.0745	20.44	26.15	46.59	130.15	-83.56	peak	100	360	P																																									
3	0.0175	17.67	35.18	52.85	142.73	-89.88	peak	100	360	P																																									

Test Mode:	TM9	Phase:	Coaxial																																																
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																								
1	0.1973	27.92	25.76	53.68	121.70	-68.02	peak	100	360	P																																									
2 *	0.3308	34.15	25.80	59.95	117.21	-57.26	peak	100	360	P																																									
3	0.3870	28.48	25.76	54.24	115.85	-61.61	peak	100	360	P																																									

Test Mode:	TM9	Phase:	Coaxial																																																																																				
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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark																																																																												
1	0.0157	21.12	35.36	56.48	123.67	-67.19	QP	100	0	P																																																																													
2	0.0748	20.14	26.14	46.28	110.12	-63.84	QP	100	0	P																																																																													
3	0.2220	25.49	25.77	51.26	100.67	-49.41	QP	100	0	P																																																																													
4	0.6611	26.89	25.69	52.58	71.20	-18.62	QP	100	0	P																																																																													
5 *	1.2291	23.46	25.96	49.42	65.81	-16.39	QP	100	0	P																																																																													
6	0.3285	30.11	25.81	55.92	97.27	-41.35	QP	100	0	P																																																																													

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

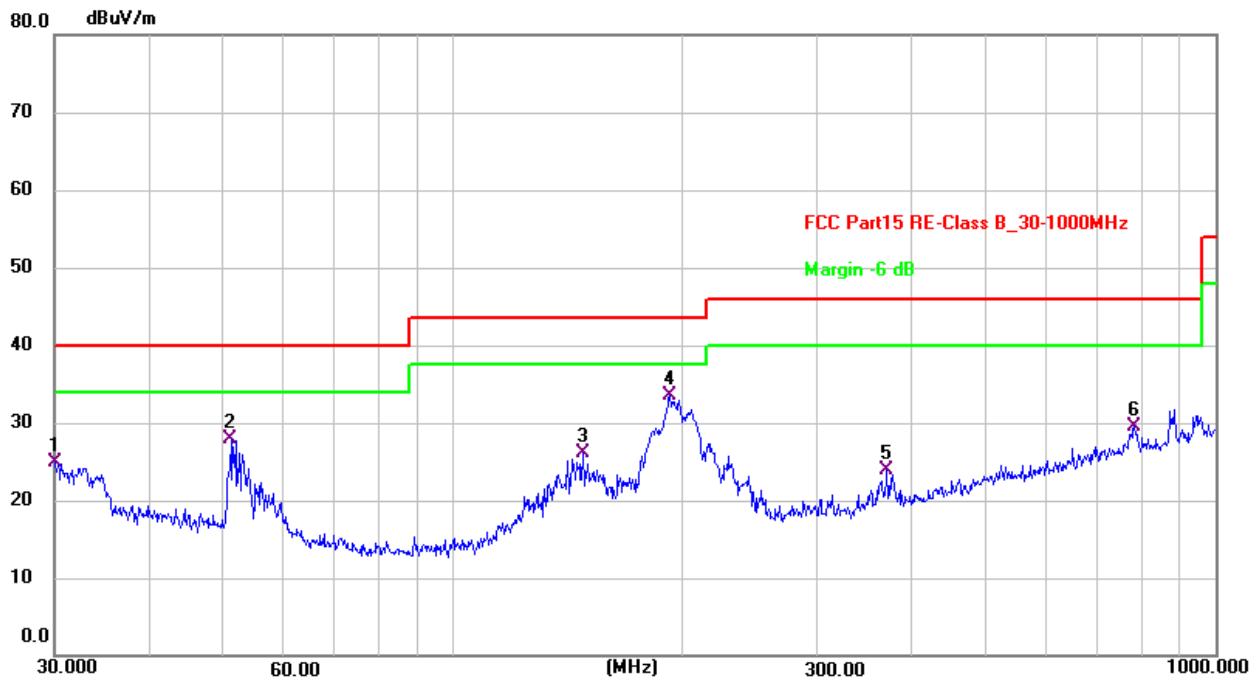
Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

Margin = Reading - Limit.

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

Tested Mode:	TM1
Test Antenna Polarization:	Horizontal
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.1054	33.80	-8.90	24.90	40.00	-15.10	QP	200	348	P	
2	51.1209	36.49	-8.57	27.92	40.00	-12.08	QP	100	360	P	
3	147.9214	33.91	-7.84	26.07	43.50	-17.43	QP	200	348	P	
4 *	192.4186	44.81	-11.38	33.43	43.50	-10.07	QP	200	348	P	
5	370.7023	30.48	-6.60	23.88	46.00	-22.12	QP	200	348	P	
6	782.3453	28.28	1.30	29.58	46.00	-16.42	QP	200	339	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

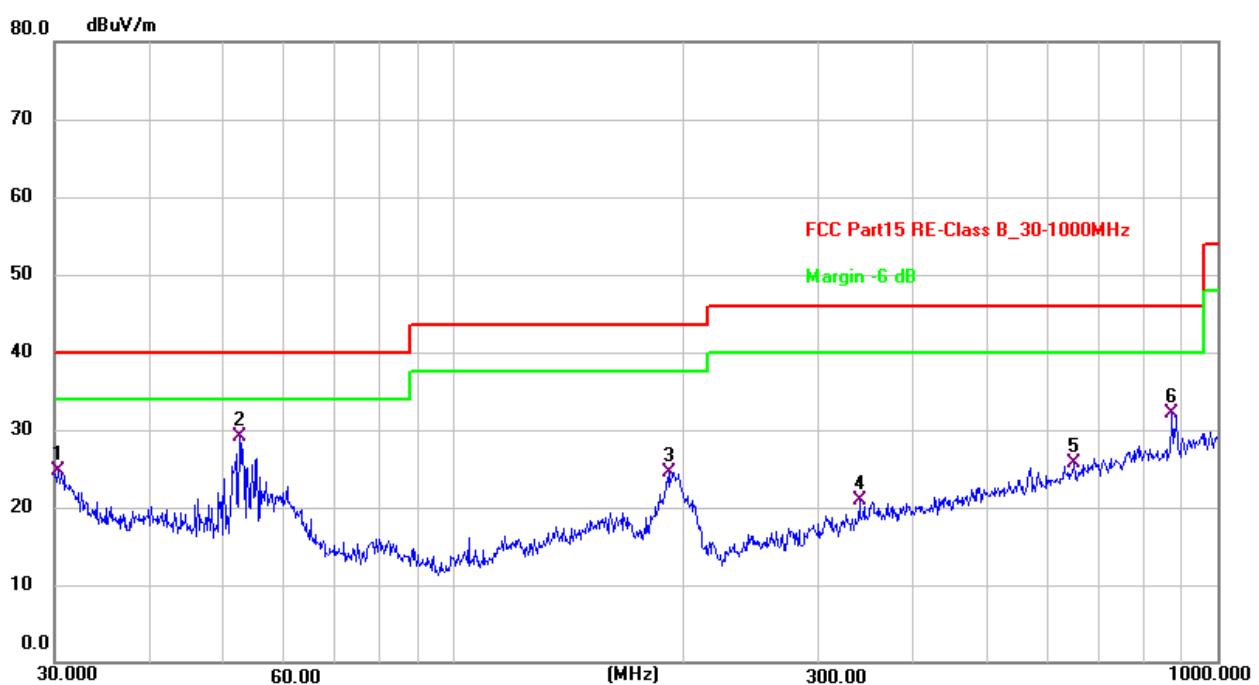
Tested Mode:

TM1

Test Antenna Polarization:

Vertical

Remark:



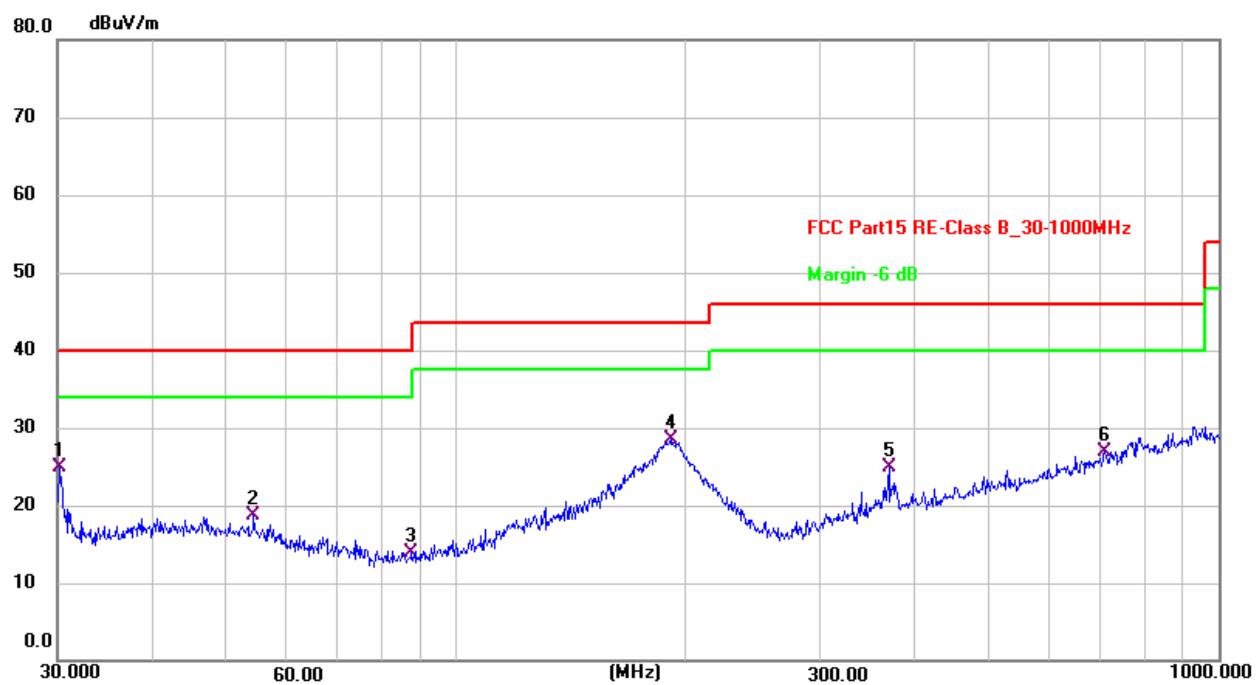
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.3173	33.57	-8.91	24.66	40.00	-15.34	QP	100	173	P	
2 *	52.3912	37.77	-8.76	29.01	40.00	-10.99	QP	100	173	P	
3	191.7450	35.89	-11.31	24.58	43.50	-18.92	QP	100	204	P	
4	339.5888	28.21	-7.26	20.95	46.00	-25.05	QP	100	349	P	
5	649.6597	26.51	-0.85	25.66	46.00	-20.34	QP	100	100	P	
6	872.1832	30.13	2.03	32.16	46.00	-13.84	QP	100	349	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

Tested Mode: TM2

Test Antenna Polarization: Horizontal

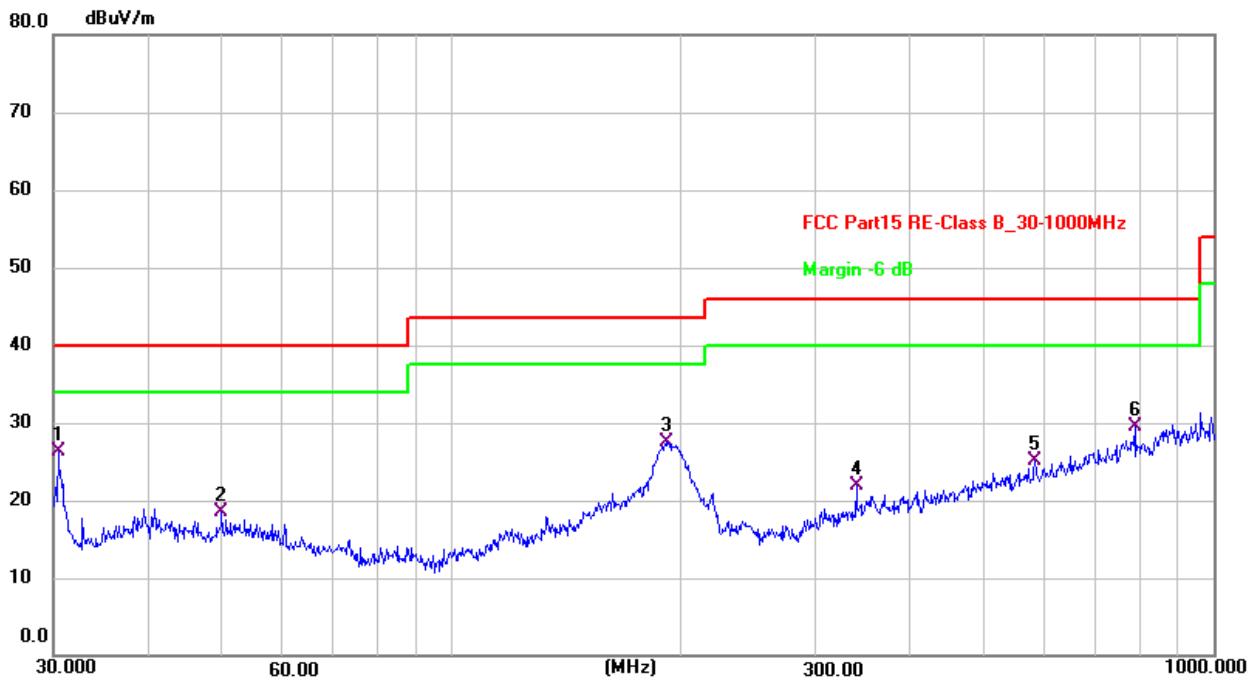
Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.2111	33.76	-8.90	24.86	40.00	-15.14	QP	100	301	P	
2	54.2610	27.79	-9.07	18.72	40.00	-21.28	QP	200	348	P	
3	87.4177	26.95	-13.00	13.95	40.00	-26.05	QP	200	348	P	
4 *	191.0738	39.84	-11.26	28.58	43.50	-14.92	QP	200	56	P	
5	369.4047	31.60	-6.66	24.94	46.00	-21.06	QP	200	348	P	
6	709.1823	26.50	0.39	26.89	46.00	-19.11	QP	200	348	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

Tested Mode:	TM2
Test Antenna Polarization:	Vertical
Remark:	



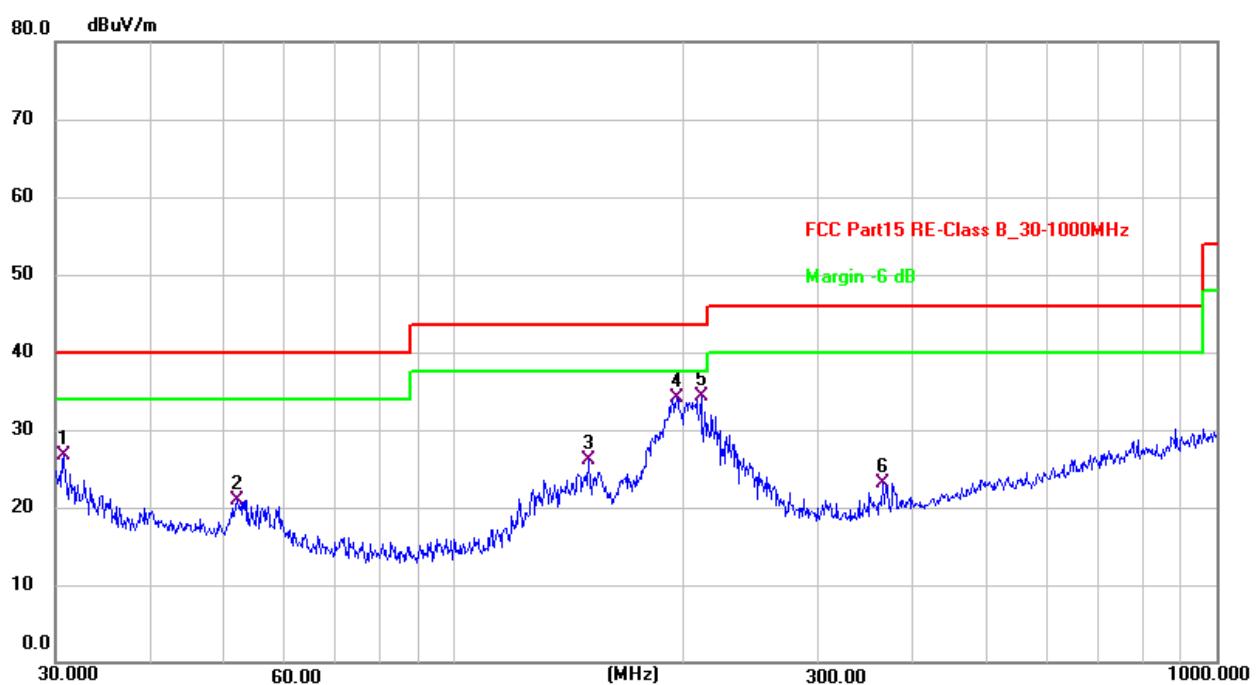
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	30.4238	35.13	-8.91	26.22	40.00	-13.78	QP	100	18	P	
2	49.8814	26.85	-8.40	18.45	40.00	-21.55	QP	100	213	P	
3	191.7450	38.75	-11.31	27.44	43.50	-16.06	QP	100	58	P	
4	339.5888	29.19	-7.26	21.93	46.00	-24.07	QP	100	296	P	
5	582.7425	27.18	-2.01	25.17	46.00	-20.83	QP	100	224	P	
6	787.8513	28.11	1.36	29.47	46.00	-16.53	QP	100	37	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

Tested Mode: TM6

Test Antenna Polarization: Horizontal

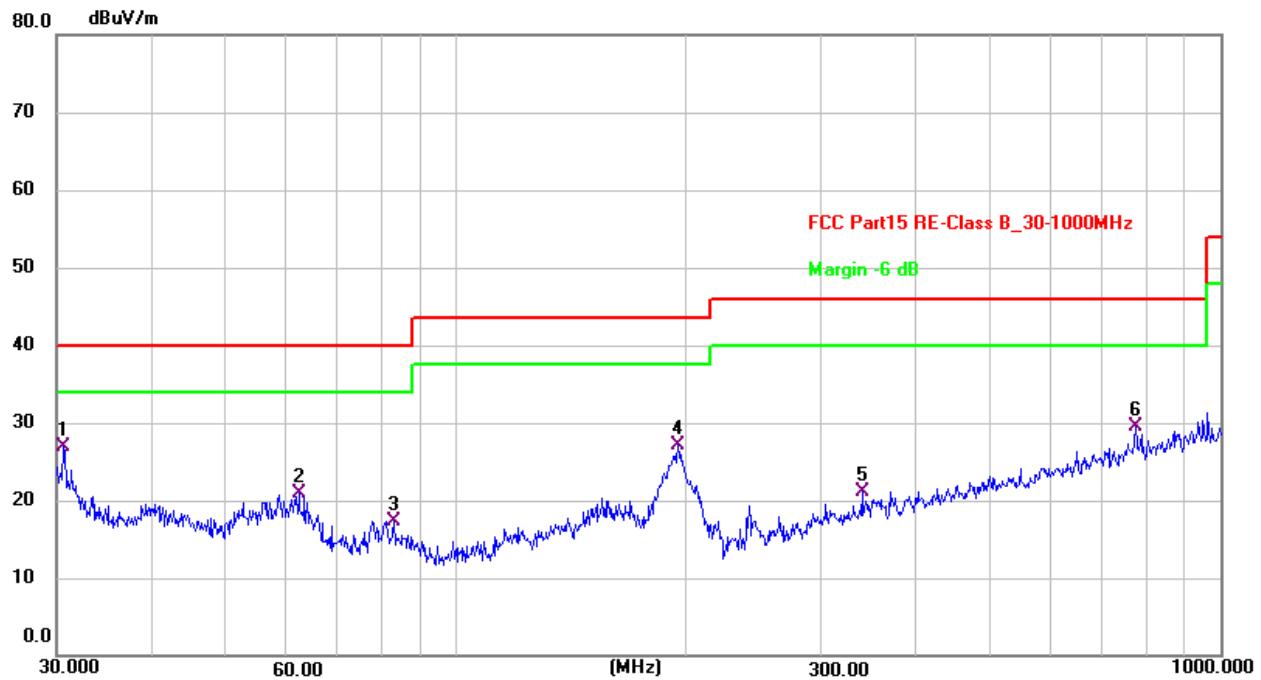
Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.7454	35.69	-8.93	26.76	40.00	-13.24	QP	100	193	P	
2	52.0251	29.69	-8.70	20.99	40.00	-19.01	QP	100	193	P	
3	150.0108	33.73	-7.72	26.01	43.50	-17.49	QP	200	359	P	
4	195.8220	45.72	-11.68	34.04	43.50	-9.46	QP	200	356	P	
5 *	210.7860	46.26	-11.90	34.36	43.50	-9.14	QP	200	359	P	
6	365.5390	29.95	-6.81	23.14	46.00	-22.86	QP	200	11	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

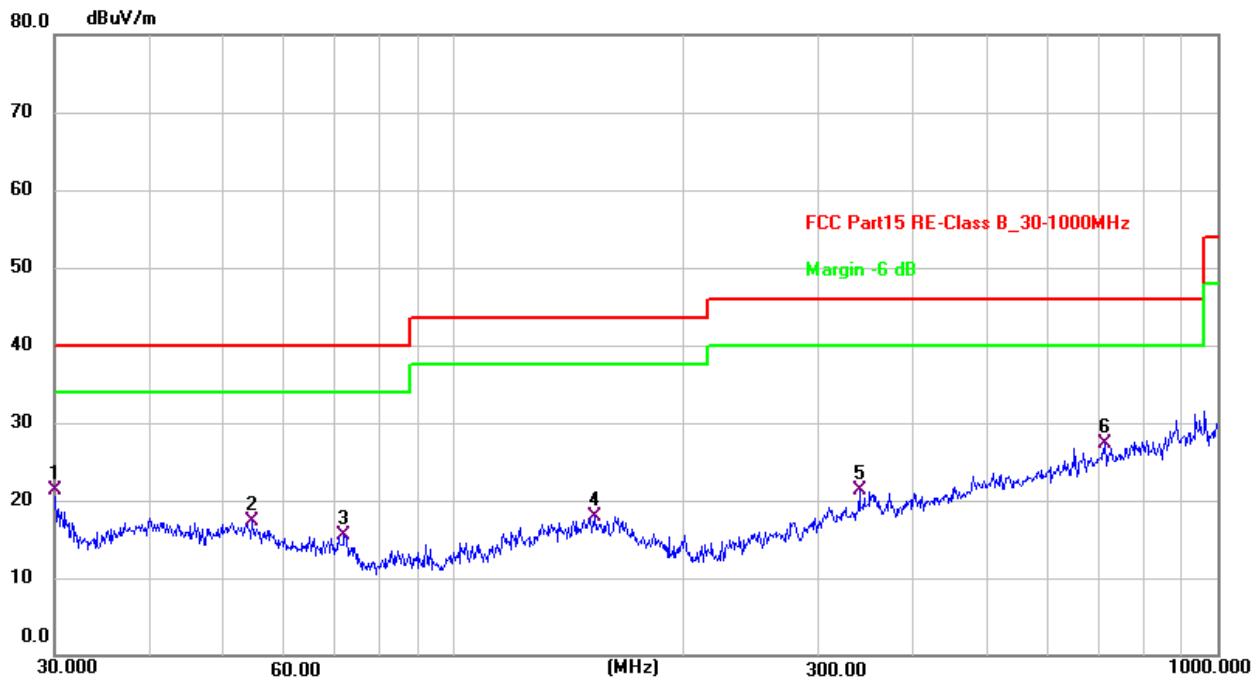
Tested Mode:	TM6
Test Antenna Polarization:	Vertical
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1 *	30.6379	35.79	-8.92	26.87	40.00	-13.13	QP	100	359	P	
2	62.2128	31.32	-10.34	20.98	40.00	-19.02	QP	100	116	P	
3	82.9385	30.27	-12.92	17.35	40.00	-22.65	QP	100	43	P	
4	195.1365	38.75	-11.61	27.14	43.50	-16.36	QP	100	219	P	
5	339.5888	28.42	-7.26	21.16	46.00	-24.84	QP	100	12	P	
6	774.1584	28.29	1.18	29.47	46.00	-16.53	QP	100	322	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

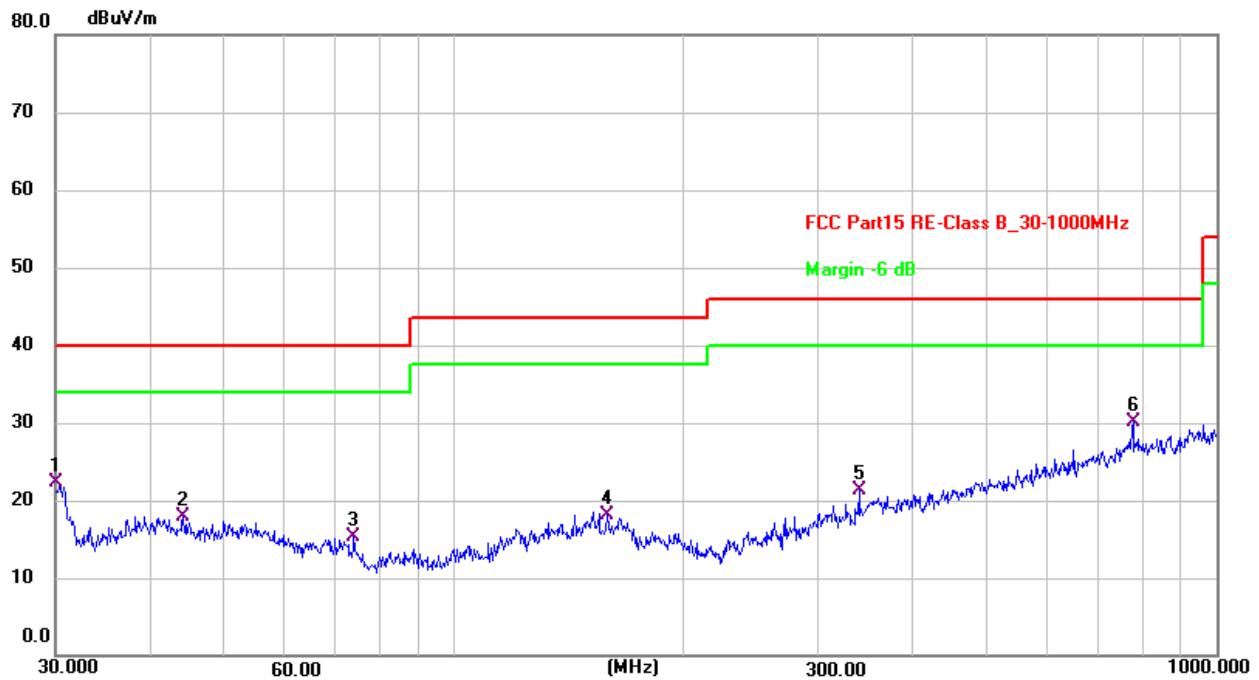
Tested Mode:	TM7
Test Antenna Polarization:	Horizontal
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.0000	30.18	-8.89	21.29	40.00	-18.71	QP	100	358	P	
2	54.4516	26.47	-9.10	17.37	40.00	-22.63	QP	100	280	P	
3	71.8320	27.47	-11.92	15.55	40.00	-24.45	QP	100	136	P	
4	153.2004	25.58	-7.77	17.81	43.50	-25.69	QP	100	63	P	
5	339.5888	28.47	-7.26	21.21	46.00	-24.79	QP	100	12	P	
6 *	711.6734	26.94	0.42	27.36	46.00	-18.64	QP	100	125	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

Tested Mode:	TM7
Test Antenna Polarization:	Vertical
Remark:	



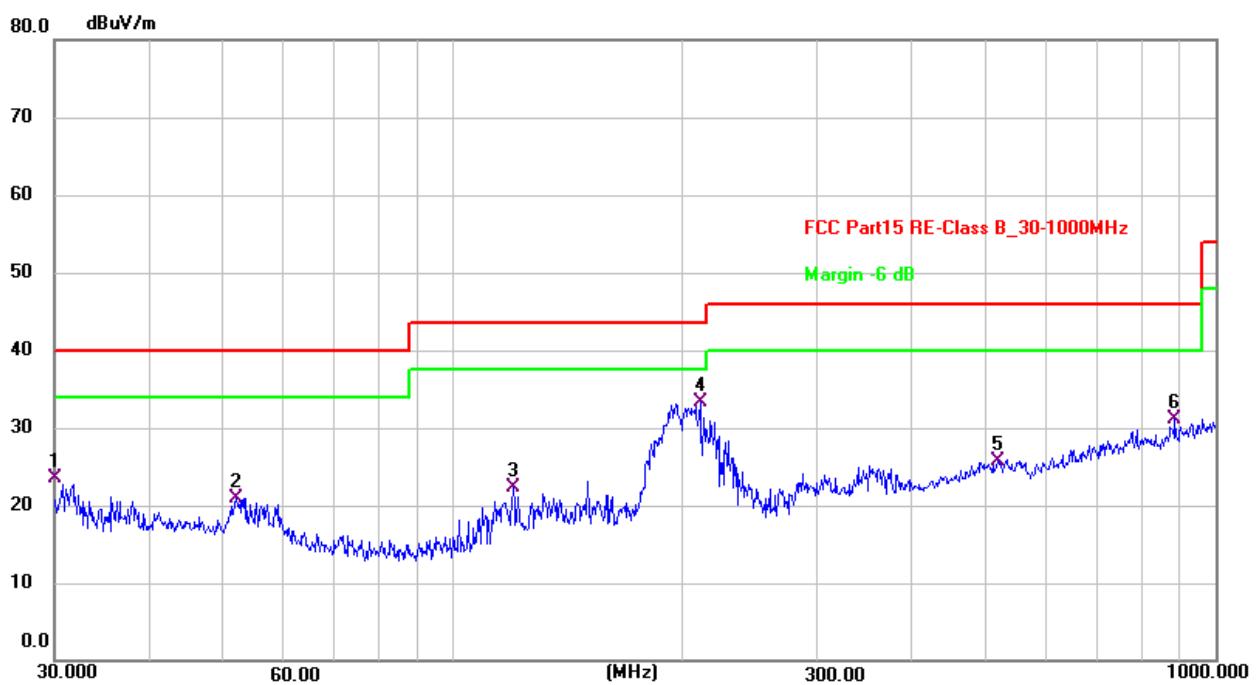
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.0000	31.27	-8.89	22.38	40.00	-17.62	QP	100	1	P	
2	44.1202	26.09	-8.27	17.82	40.00	-22.18	QP	100	225	P	
3	73.8756	27.38	-12.15	15.23	40.00	-24.77	QP	100	142	P	
4	158.6677	25.88	-7.85	18.03	43.50	-25.47	QP	100	225	P	
5	339.5888	28.60	-7.26	21.34	46.00	-24.66	QP	100	297	P	
6 *	776.8778	28.84	1.22	30.06	46.00	-15.94	QP	100	38	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

Tested Mode: TM8

Test Antenna Polarization: Horizontal

Remark:



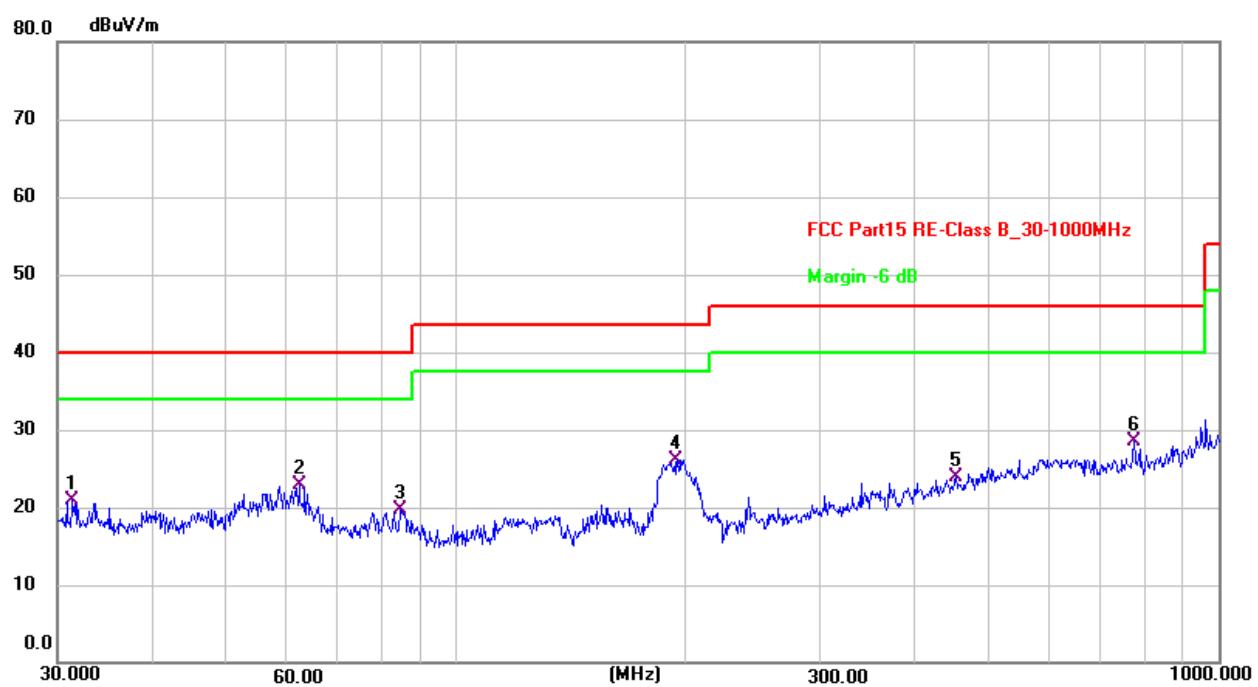
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.0000	32.35	-8.89	23.46	40.00	-16.54	QP	200	42	P	
2	52.0251	29.69	-8.70	20.99	40.00	-19.01	QP	200	38	P	
3	119.8555	31.97	-9.76	22.21	43.50	-21.29	QP	200	247	P	
4 *	210.7860	45.26	-11.90	33.36	43.50	-10.14	QP	200	73	P	
5	517.2480	28.86	-3.09	25.77	46.00	-20.23	QP	200	11	P	
6	884.5027	28.84	2.29	31.13	46.00	-14.87	QP	200	67	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

Tested Mode: TM8

Test Antenna Polarization: Vertical

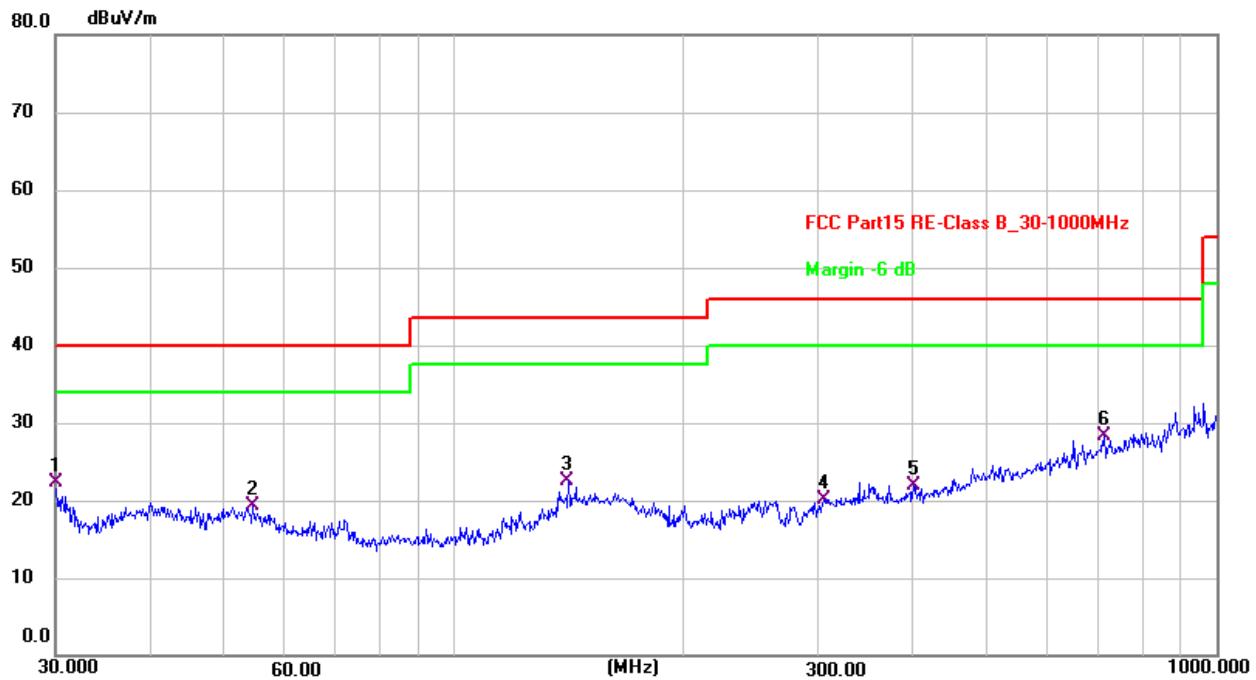
Remark:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	31.3992	29.79	-8.96	20.83	40.00	-19.17	QP	100	68	P	
2 *	62.2128	33.32	-10.34	22.98	40.00	-17.02	QP	100	21	P	
3	84.4054	32.62	-12.95	19.67	40.00	-20.33	QP	100	49	P	
4	195.1363	37.75	-11.61	26.14	43.50	-17.36	QP	100	354	P	
5	452.7196	28.31	-4.45	23.86	46.00	-22.14	QP	100	247	P	
6	774.1584	27.29	1.18	28.47	46.00	-17.53	QP	100	117	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz

Tested Mode:	TM9
Test Antenna Polarization:	Horizontal
Remark:	



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark
1	30.0000	31.18	-8.89	22.29	40.00	-17.71	QP	100	68	P	
2	54.4515	28.47	-9.10	19.37	40.00	-20.63	QP	100	127	P	
3	141.3296	30.57	-8.16	22.41	43.50	-21.09	QP	100	75	P	
4	305.6800	27.84	-7.83	20.01	46.00	-25.99	QP	100	57	P	
5	400.4318	27.43	-5.56	21.87	46.00	-24.13	QP	100	354	P	
6 *	711.6734	27.94	0.42	28.36	46.00	-17.64	QP	100	21	P	

Test Plots and Data of Radiated Emissions from 30MHz to 1GHz												
Tested Mode:	TM9											
Test Antenna Polarization:	Vertical											
Remark:												
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg.)	P/F	Remark	
1	39.2991	26.35	-8.42	17.93	40.00	-22.07	QP	100	73	P		
2	73.8756	27.38	-12.15	15.23	40.00	-24.77	QP	100	21	P		
3	152.1297	26.22	-7.75	18.47	43.50	-25.03	QP	100	147	P		
4	301.4223	26.27	-7.99	18.28	46.00	-27.72	QP	100	347	P		
5	531.9633	26.13	-2.93	23.20	46.00	-22.80	QP	100	22	P		
6 *	776.8777	28.84	1.22	30.06	46.00	-15.94	QP	100	35	P		

Note 1: this EUT was tested in 3 orthogonal positions and the worst case position data was reported.

Note 2: Testing is carried out with frequency rang 9kHz to the tenth harmonics. The measurements greater than 20dB below the limit from 9kHz to 30MHz.

Note 3: Level = Reading + Factor, Margin = Level – Limit.

6. Occupied Bandwidth

6.1 Standard and Limit

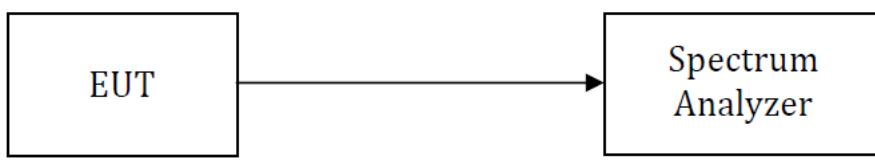
According to 15.215 (c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.

6.2 Test Procedure

According to the ANSI 63.10-2013, section 6.9, the emission bandwidth test method as follows.

- 1) Remove the antenna from the EUT and connect to the spectrum analyzer via a low loss RF cable.
- 2) Set the spectrum analyzer to any one measured frequency within its operating range.
- 3) Set RBW = 1% ~5% of the 20 dB bandwidth, VBW = RBW.
- 4) Set Sweep = Auto, Detector function = peak, Trace = max hold.
- 5) Set a reference level on the measuring instrument equal to the highest peak value.
- 6) Measure the frequency difference of two frequencies that were attenuated 20dB from the reference level. Record the frequency difference as the emission bandwidth.

All the trace to stabilize, use the marker-to-peak function to set the marker to the peak of the emission, use the marker-delta function to measure and record the 20dB down and 99% bandwidth of the emission.

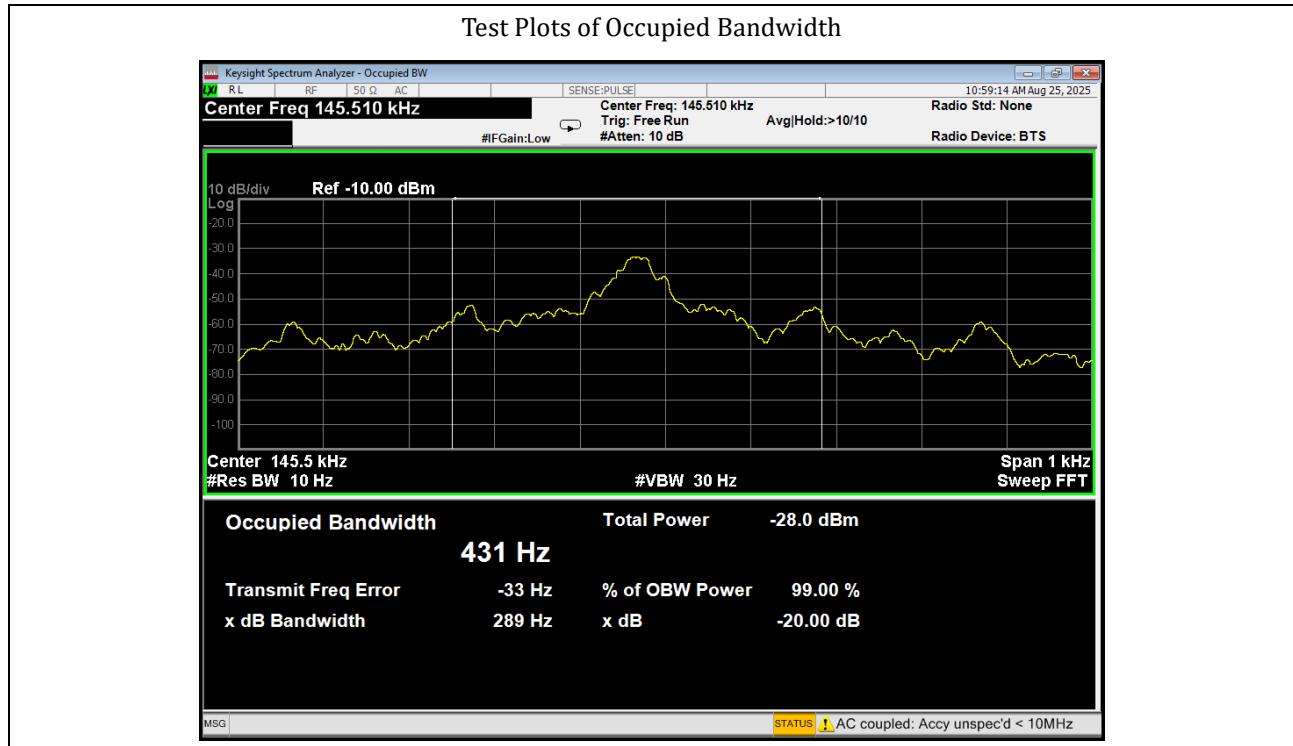


Test Setup Block Diagram

6.3 Test Data and Results

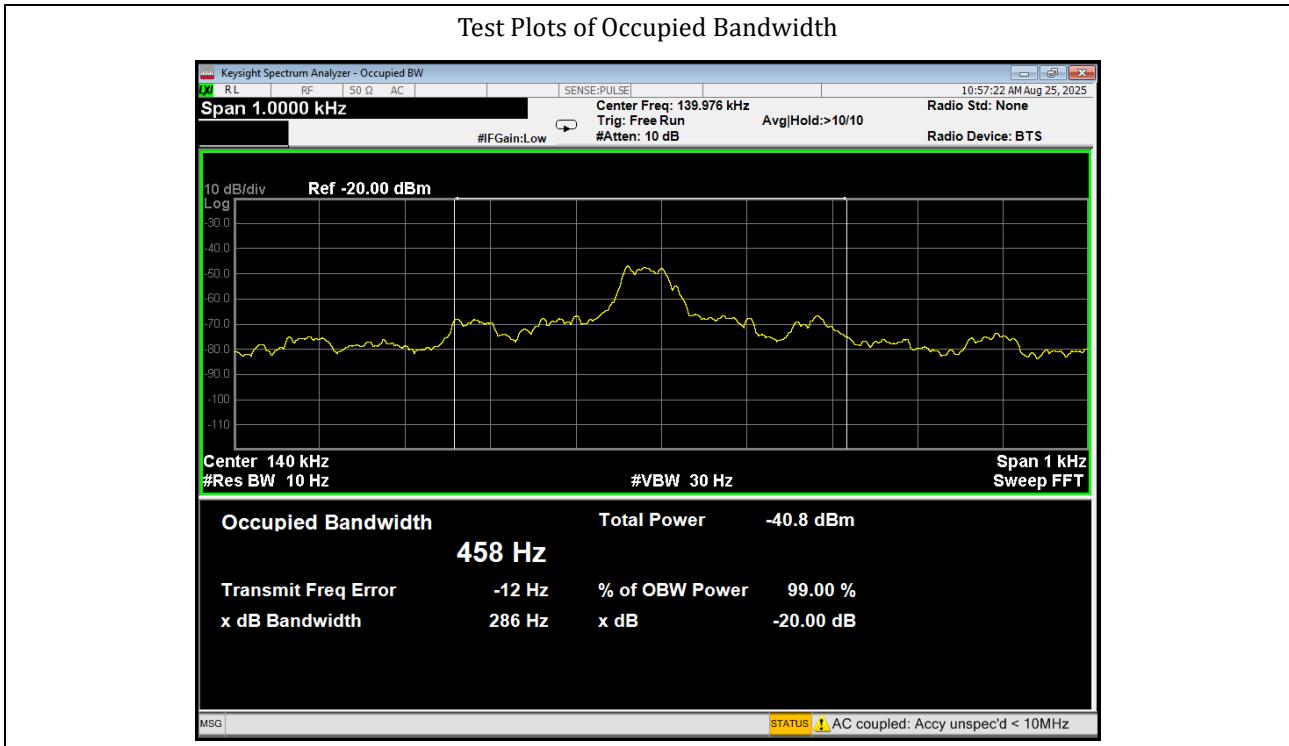
Test Frequency	20dB Bandwidth	99% Bandwidth
145.5kHz	289Hz	431Hz

Phone:



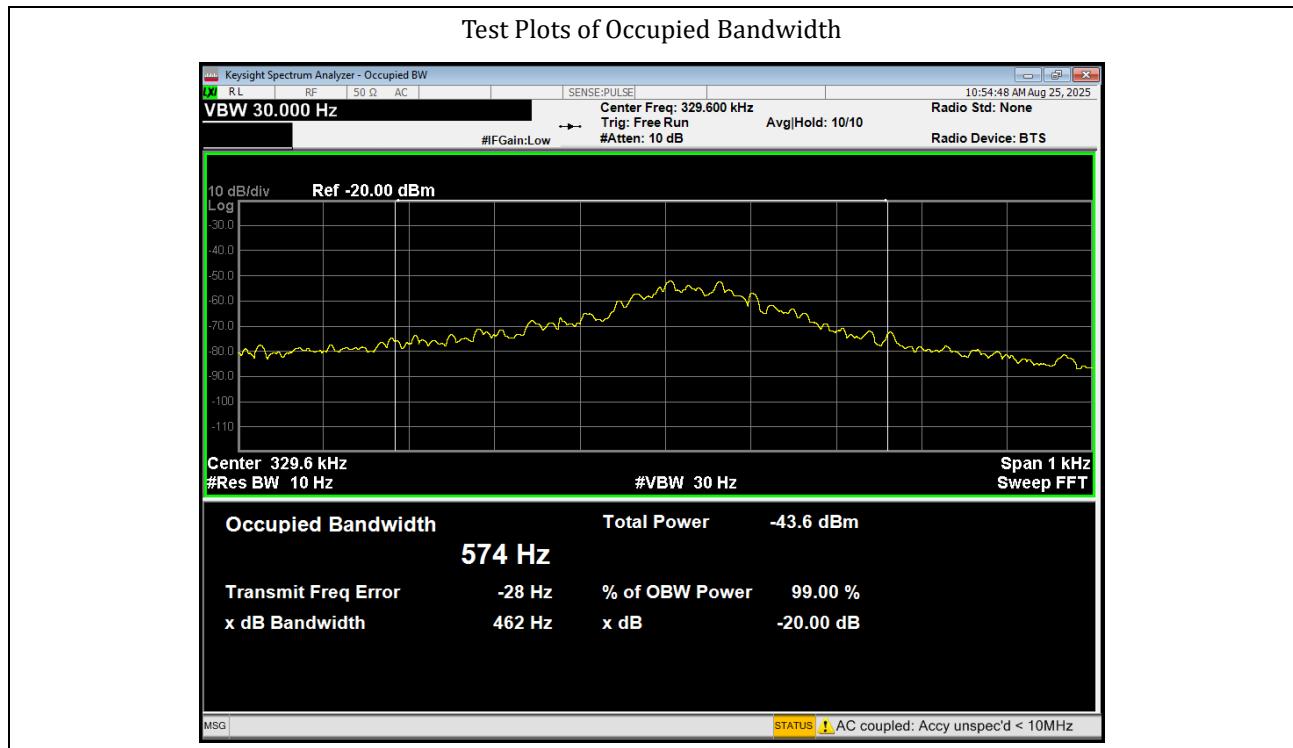
Test Frequency	20dB Bandwidth	99% Bandwidth
140kHz	286Hz	458Hz

Earphone:



Test Frequency	20dB Bandwidth	99% Bandwidth
329.6kHz	462Hz	574Hz

Watch:



******* END OF REPORT *******