



RADIO TEST REPORT

Applicant : Philio Technology Corporation

Address : 8F., No.653-2, Zhongzheng Rd., Xinzhuang
Dist., New Taipei City 24257, Taiwan(R.O.C)

Equipment : Smart Energy In Wall Meter

Model No. : PAB01-2

Trade Name : Philio

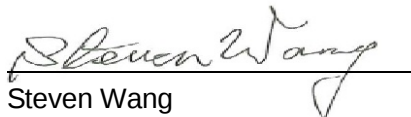
FCC ID : RHHPAB01

I HEREBY CERTIFY THAT :

The sample was received on Nov. 03, 2015 and the testing was carried out on Nov. 05 2015 at Cerpass Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of Cerpass Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Tested by:


Steven Wang
Manager


Spree Yei
Engineer

Laboratory Accreditation:

☒ Cerpass Technology Corporation Test Laboratory



☐ Cerpass Technology(SuZhou) Co., Ltd.





Contents

1. Summary of Test Procedure and Test Results.....	4
1.1. Applicable Standards	4
2. Test Configuration of Equipment under Test.....	5
2.1. General Description of EUT	5
2.2. Carrier Frequency of Channels.....	5
2.3. Test Mode and Test Software	5
2.4. Description of Test System.....	5
2.5. General Information of Test.....	6
3. Test Equipment and Ancillaries Used for Tests	7
4. Test of Conducted Emission.....	8
4.1. Test Limit	8
4.2. Test Procedures	8
4.3. Typical Test Setup	9
4.4. Test Result and Data.....	10
4.5. Test Photographs	14
5. Test of Radiated Emission	15
5.1. Test Limit	15
5.2. Test Procedures	15
5.3. Typical Test Setup Layout of Radiated Emission	16
5.4. Test Result and Data.....	17
5.5. Test Photographs (30MHz ~ 1GHz)	37
5.6. Test Photographs (1GHz ~ 10GHz)	38



History of this test report

■ ORIGINAL.

☐ Additional attachment as following record:

Attachment No.	Issue Date	Description
TEFC1510217	Nov. 18, 2015	Original.



1. Summary of Test Procedure and Test Results

1.1. Applicable Standards

ANSI C63.4: 2009

FCC Rules and Regulations Part 15 Subpart C §15.249

FCC Rule	Description of Test	Result
15.207	Conducted Emission	Pass
15.209 15.249	Radiated Emission	Pass



2. Test Configuration of Equipment under Test

2.1. General Description of EUT

Modulation Type	GFSK
Operating Frequency	908.4MHz, 916MHz
Antenna Type/ gain	Monopole Antenna/ 0dBi

2.2. Carrier Frequency of Channels

Channel	Frequency(MHz)	Channel	Frequency(MHz)
*1	908.4	*2	916

Note: Channels remarked “*” are selected to perform test.

2.3. Test Mode and Test Software

- During testing, the interface cables and equipment positions were varied according to ANSI C63.4.
- The complete test system included EUT for RF test.

2.4. Description of Test System

No supporting system during the test.



2.5. 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 Address: No.68-1, Shihbachongsi, Shihding Township, New Taipei City 223, Taiwan, R.O.C. Tel: +886-2-2663-8582
	FCC	TW1079, TW1061,390316, 228391, 641184
	IC	4934E-1, 4934E-2
	VCCI	T-2205 for Telecommunication Test C-4663 for Conducted emission test R-3428, R-4218 for Radiated emission test G-812, G-813 for radiated disturbance above 1GHz
☐	Test Site	CerpPASS Technology (Suzhou) Co.,Ltd Address: No.66,Tangzhuang Road, Suzhou Industrial Park, Jiangsu 215006, China Tel: +86-512-6917-5888 Fax: +86-512-6917-5666
	FCC	916572, 331395
	IC	7290A-1, 7290A-2
	VCCI	T-343 for Telecommunication Test C-2919 for Conducted emission test R-2670 for Radiated emission test G-227 for radiated disturbance above 1GHz
Frequency Range Investigated:		Conducted: from 150kHz to 30 MHz Radiation: from 30 MHz to 10,000MHz
Test Distance:		The test distance of radiated emission from antenna to EUT is 3 M.



3. Test Equipment and Ancillaries Used for Tests

Instrument	Model No.	Manufacturer	Serial No.	Calibration Date	Valid Date
Bilog Antenna	Schwarzbeck	VULB9168	275	2015/9/3	2016/9/2
Active Loop Antenna	EMCO	6507	40855	2015/3/12	2016/3/11
Horn Antenna	EMCO	3115	31601	2015/9/2	2016/9/1
Horn Antenna	EMCO	3116	31974	2015/9/7	2016/9/6
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200207	2015/3/14	2016/3/13
Preamplifier	QuieTek	AP-0100A	CHM0906075	2015/9/17	2016/9/16
Preamplifier	Agilent	8449B	3008A01954	2015/3/5	2016/3/4
Preamplifier	MITEQ	AMF-7D-0010 100-30-10P	1860212	2015/3/9	2016/3/8
Preamplifier	EMC INSTRUMENTS	EMC184045	980065	2015/9/4	2016/9/3
Signal Generator	KEYSIGHT	83640A	2927A00107	2015/9/1	2016/8/31
MXG MW Analog Signal Generator	KEYSIGHT	N5183A	MY50142931	2015/3/13	2016/3/12
MXG-B RF Vector Signal Generator	KEYSIGHT	N5182B	MY53051383	2015/3/12	2016/3/11
BLUETOOTH TESTER	R&S	CBT	101133	2015/3/12	2016/3/11
Attenuator	KEYSIGHT	8491B	MY39250705	2015/9/2	2016/9/1
Rotary Attenuator	Agilent	8494B	MY42154466	2015/3/9	2016/3/8
Rotary Attenuator	Agilent	8495B	MY42146680	2015/3/9	2016/3/8
Temp & Humi chamber	T-MACHINE	TMJ-9712	T-12-040111	2015/09/08	2016/09/07
Series Power Meter	Anritsu	ML2495A	1224005	2015/3/5	2016/3/4
Power Sensor	Anritsu	MA2411B	1207295	2015/3/5	2016/3/4
USB Average Power Sensor	Theda	4PS6A	TW5451013~16	2014/11/8	2015/11/7



4. Test of Conducted Emission

4.1. Test Limit

Conducted Emissions were measured from 150 kHz to 30 MHz with a bandwidth of 9 KHz on the 120 VAC power and return leads of the EUT according to the methods defined in ANSI C63.4-2009 Section 3.1. The EUT was placed on a nonmetallic stand in a shielded room 0.8 meters above the ground plane as shown in section 2.2. 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.

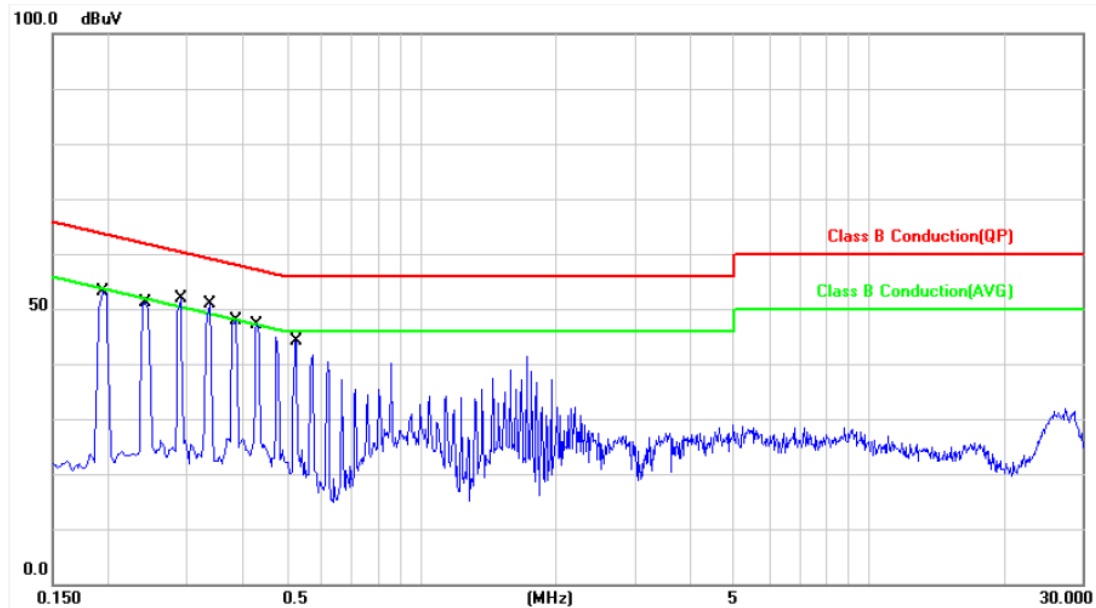
4.2. Test Procedures

- 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.
- Connect EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connecting to the other LISN.
- The LISN provides 50 ohm coupling impedance for the measuring instrument.
- The FCC states that a 50 ohm, 50 micro-Henry LISN should be used.
- Both sides of AC line were checked for maximum conducted interference.
- The frequency range from 150 kHz to 30 MHz was searched.
- Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



4.4. Test Result and Data

Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: TX, 908.4MHz	Temperature	: 26 °C
Test Date	: Nov. 03, 2015	Humidity	: 48 %
Memo	:	Atmospheric Pressure	: 1008 hpa

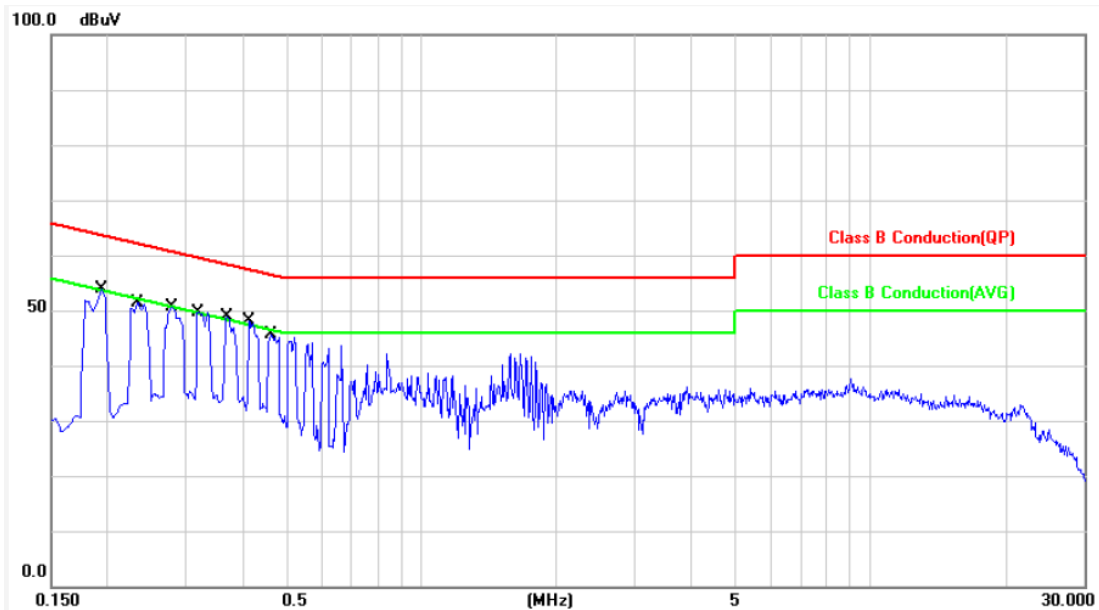


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1941	9.93	41.29	51.22	63.85	-12.63	QP	P
2	0.1941	9.93	21.52	31.45	53.85	-22.40	AVG	P
3	0.2410	9.93	39.59	49.52	62.06	-12.54	QP	P
4	0.2410	9.93	19.75	29.68	52.06	-22.38	AVG	P
5	0.2905	9.94	37.68	47.62	60.51	-12.89	QP	P
6	0.2905	9.94	19.39	29.33	50.51	-21.18	AVG	P
7	0.3379	9.95	36.56	46.51	59.25	-12.74	QP	P
8	0.3379	9.95	17.41	27.36	49.25	-21.89	AVG	P
9	0.3870	9.95	35.23	45.18	58.13	-12.95	QP	P
10	0.3870	9.95	16.93	26.88	48.13	-21.25	AVG	P
11	0.4290	9.96	33.65	43.61	57.27	-13.66	QP	P
12	0.4290	9.96	15.41	25.37	47.27	-21.90	AVG	P
13	0.5250	9.96	30.70	40.66	56.00	-15.34	QP	P
14	0.5250	9.96	12.65	22.61	46.00	-23.39	AVG	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: TX, 908.4MHz	Temperature	: 26 °C
Test Date	: Nov. 03, 2015	Humidity	: 48 %
Memo	: 908.4MHz	Atmospheric Pressure	: 1008 hpa

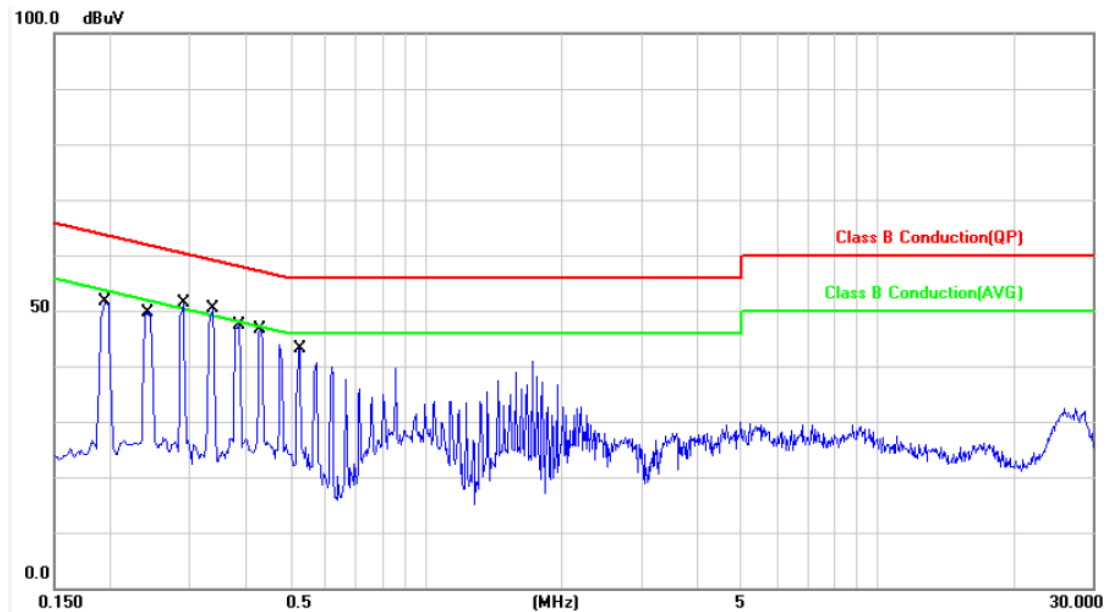


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1949	9.95	41.34	51.29	63.82	-12.53	QP	P
2	0.1949	9.95	24.27	34.22	53.82	-19.60	AVG	P
3	0.2330	9.95	38.66	48.61	62.34	-13.73	QP	P
4	0.2330	9.95	21.89	31.84	52.34	-20.50	AVG	P
5	0.2779	9.96	37.66	47.62	60.88	-13.26	QP	P
6	0.2779	9.96	22.15	32.11	50.88	-18.77	AVG	P
7	0.3209	9.96	38.06	48.02	59.68	-11.66	QP	P
8	0.3209	9.96	21.67	31.63	49.68	-18.05	AVG	P
9	0.3710	9.96	35.31	45.27	58.48	-13.21	QP	P
10	0.3710	9.96	21.12	31.08	48.48	-17.40	AVG	P
11	0.4150	9.96	33.65	43.61	57.55	-13.94	QP	P
12	0.4150	9.96	20.26	30.22	47.55	-17.33	AVG	P
13	0.4630	9.97	32.67	42.64	56.64	-14.00	QP	P
14	0.4630	9.97	19.07	29.04	46.64	-17.60	AVG	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: LINE
Test Mode	: TX, 916MHz	Temperature	: 26 °C
Test Date	: Nov. 03, 2015	Humidity	: 48 %
Memo	:	Atmospheric Pressure	: 1008 hpa

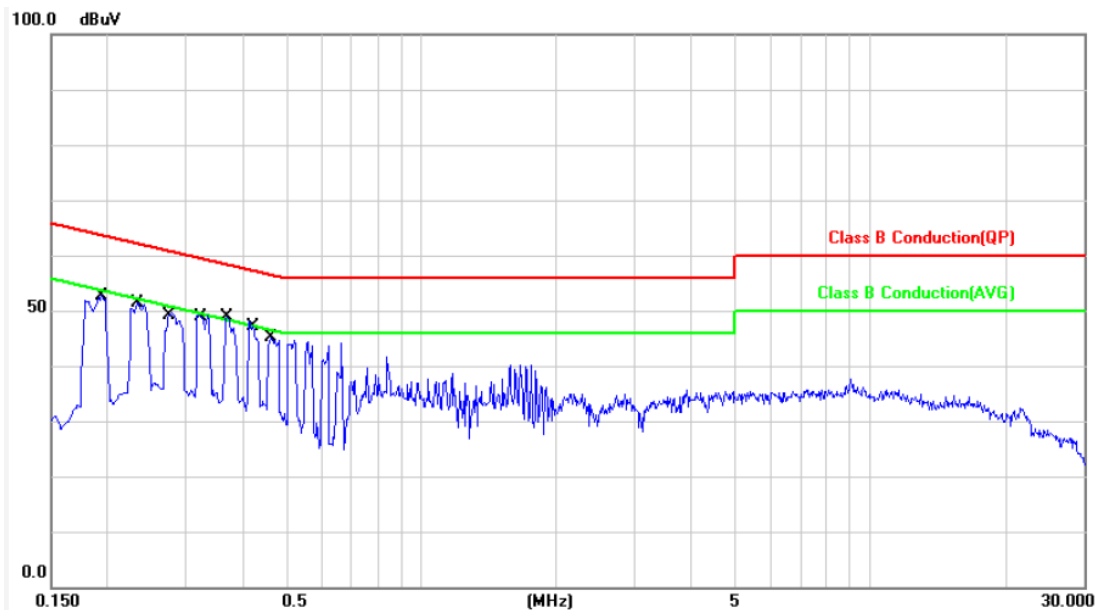


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1923	9.93	41.70	51.63	63.93	-12.30	QP	P
2	0.1923	9.93	21.88	31.81	53.93	-22.12	AVG	P
3	0.2420	9.93	39.40	49.33	62.02	-12.69	QP	P
4	0.2420	9.93	19.74	29.67	52.02	-22.35	AVG	P
5	0.2910	9.94	37.91	47.85	60.49	-12.64	QP	P
6	0.2910	9.94	20.19	30.13	50.49	-20.36	AVG	P
7	0.3379	9.95	36.04	45.99	59.25	-13.26	QP	P
8	0.3379	9.95	18.17	28.12	49.25	-21.13	AVG	P
9	0.3850	9.95	35.44	45.39	58.17	-12.78	QP	P
10	0.3850	9.95	16.76	26.71	48.17	-21.46	AVG	P
11	0.4320	9.96	33.55	43.51	57.21	-13.70	QP	P
12	0.4320	9.96	15.48	25.44	47.21	-21.77	AVG	P
13	0.5240	9.96	30.62	40.58	56.00	-15.42	QP	P
14	0.5240	9.96	12.71	22.67	46.00	-23.33	AVG	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: NEUTRAL
Test Mode	: TX, 916MHz	Temperature	: 26 °C
Test Date	: Nov. 03, 2015	Humidity	: 48 %
Memo	:	Atmospheric Pressure	: 1008 hpa



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	P/F
1	0.1960	9.95	42.08	52.03	63.77	-11.74	QP	P
2	0.1960	9.95	24.23	34.18	53.77	-19.59	AVG	P
3	0.2320	9.95	38.71	48.66	62.37	-13.71	QP	P
4	0.2320	9.95	22.04	31.99	52.37	-20.38	AVG	P
5	0.2740	9.95	36.94	46.89	60.99	-14.10	QP	P
6	0.2740	9.95	22.13	32.08	50.99	-18.91	AVG	P
7	0.3250	9.96	38.31	48.27	59.58	-11.31	QP	P
8	0.3250	9.96	21.89	31.85	49.58	-17.73	AVG	P
9	0.3730	9.96	35.20	45.16	58.43	-13.27	QP	P
10	0.3730	9.96	22.15	32.11	48.43	-16.32	AVG	P
11	0.4220	9.96	33.88	43.84	57.41	-13.57	QP	P
12	0.4220	9.96	20.72	30.68	47.41	-16.73	AVG	P
13	0.4610	9.97	32.16	42.13	56.67	-14.54	QP	P
14	0.4610	9.97	19.54	29.51	46.67	-17.16	AVG	P

Note: Level = Reading + Factor
Margin = Level – Limit



5. Test of Radiated Emission

5.1. Test Limit

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.

Frequency (MHz)	Distance	Limit ($\mu\text{V}/\text{m}$)
0.09 ~ 0.490	300m	2400/F(kHz)
0.490 ~ 1.705	30m	24000/ F(kHz)
1.705 ~ 30	30m	30
30 ~ 88	3m	100
88 ~ 216	3m	150
216 ~ 960	3m	200
Above 960	3m	500

Fundamental Frequency:

Fundamental Frequency (MHz)	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

5.2. Test Procedures

- The EUT was placed on a rotatable table top 0.8 meter above ground.
- The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- The table was rotated 360 degrees to determine the position of the highest radiation.
- 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.
- 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.
- Set the test-receiver system to Peak or CISPR quasi-peak Detect Function and specified bandwidth with Maximum Hold Mode.
- 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.
- 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.
- "Cone of radiation" has been considered to be 3dB beamwidth of the measurement antenna.

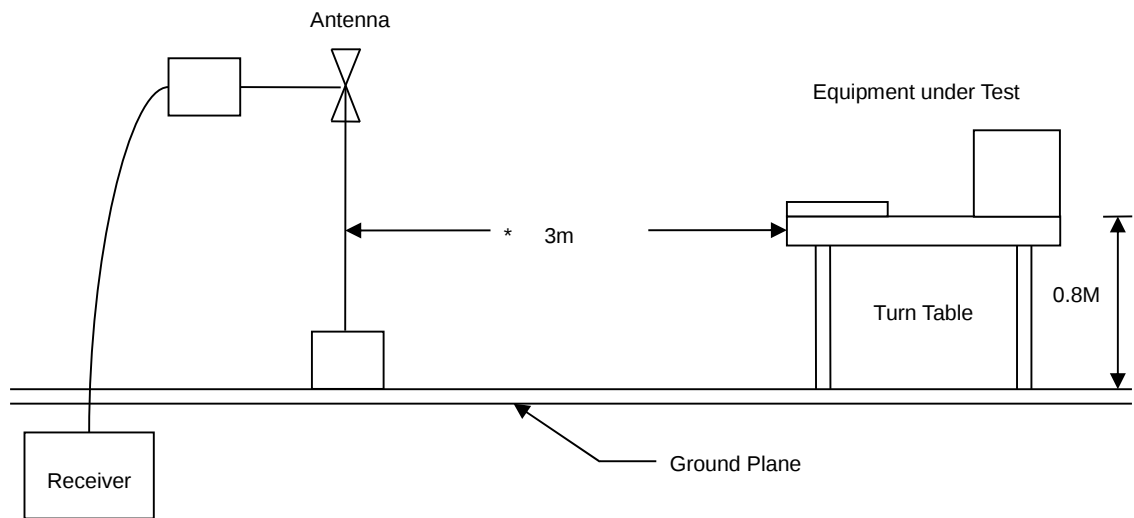
NOTE:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection at frequency above 1GHz.
- The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

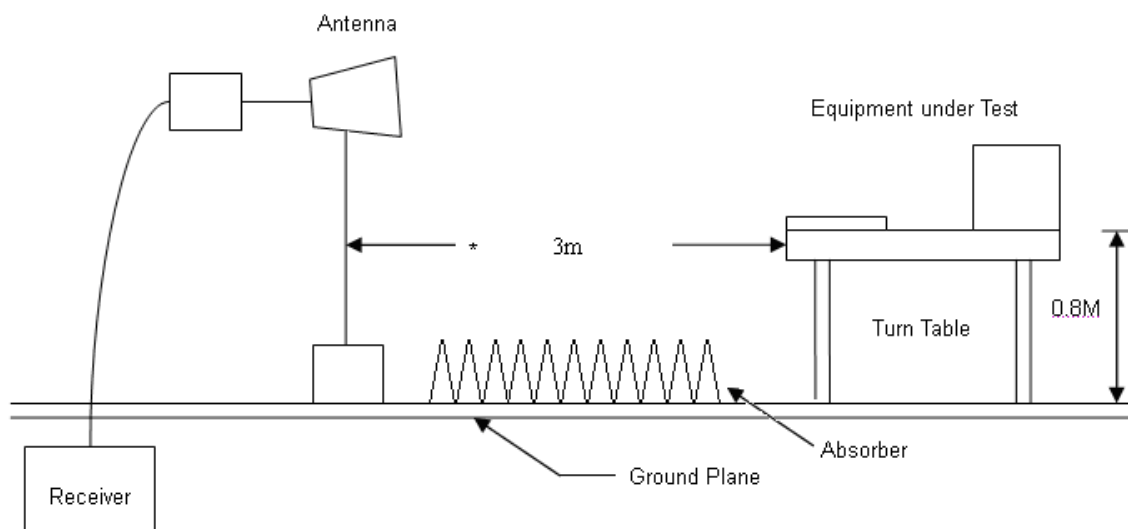


5.3. Typical Test Setup Layout of Radiated Emission

Below 1GHz Test Setup



Above 1GHz Test Setup

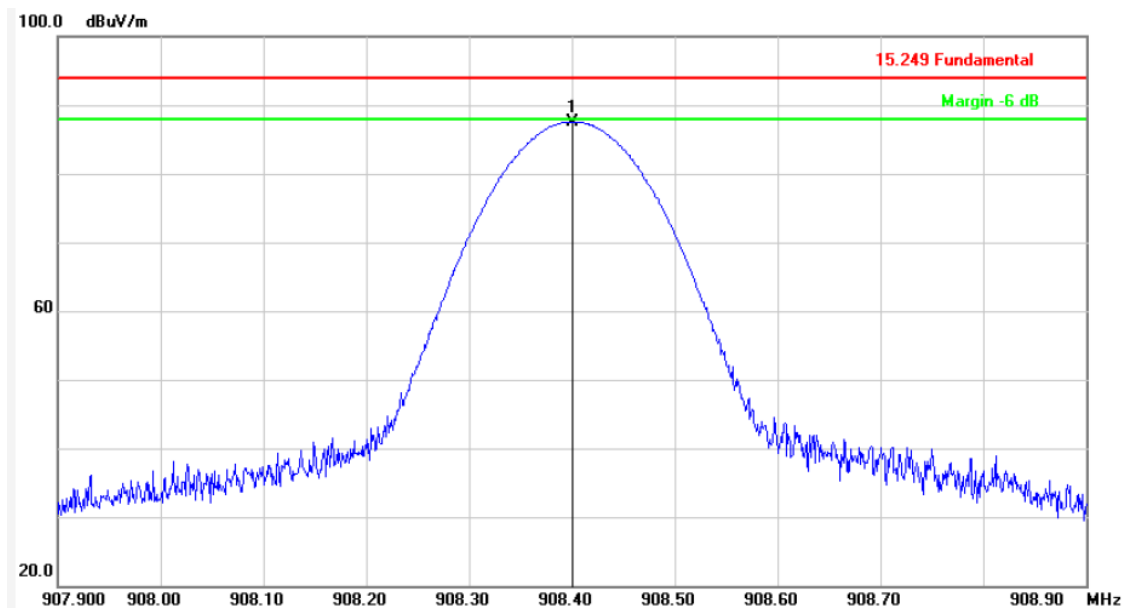




5.4. Test Result and Data

5.4.1. Test Result of Fundamental Emission

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 908.4MHz	Temperature	: 22.3 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Modulation Type	:	Atmospheric Pressure	: 1008 hPa



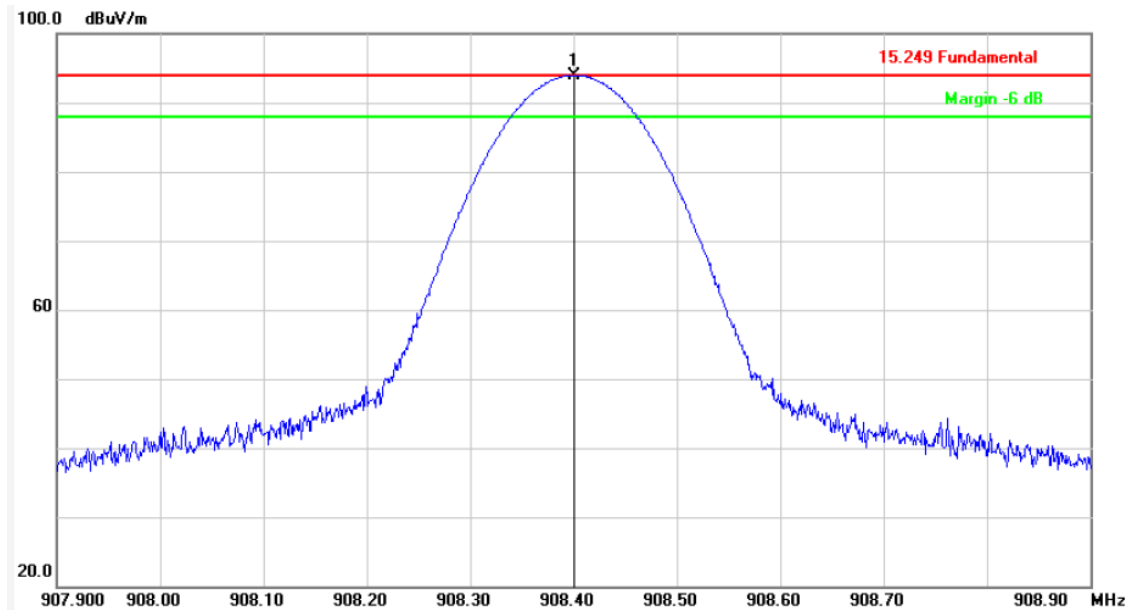
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	908.4010	-4.35	91.85	87.50	94.00	-6.50	QP	101	242	P

Note: Level = Reading + Factor

Margin = Level - Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 908.4MHz	Temperature	: 22.3 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Modulation Type	:	Atmospheric Pressure	: 1008 hPa

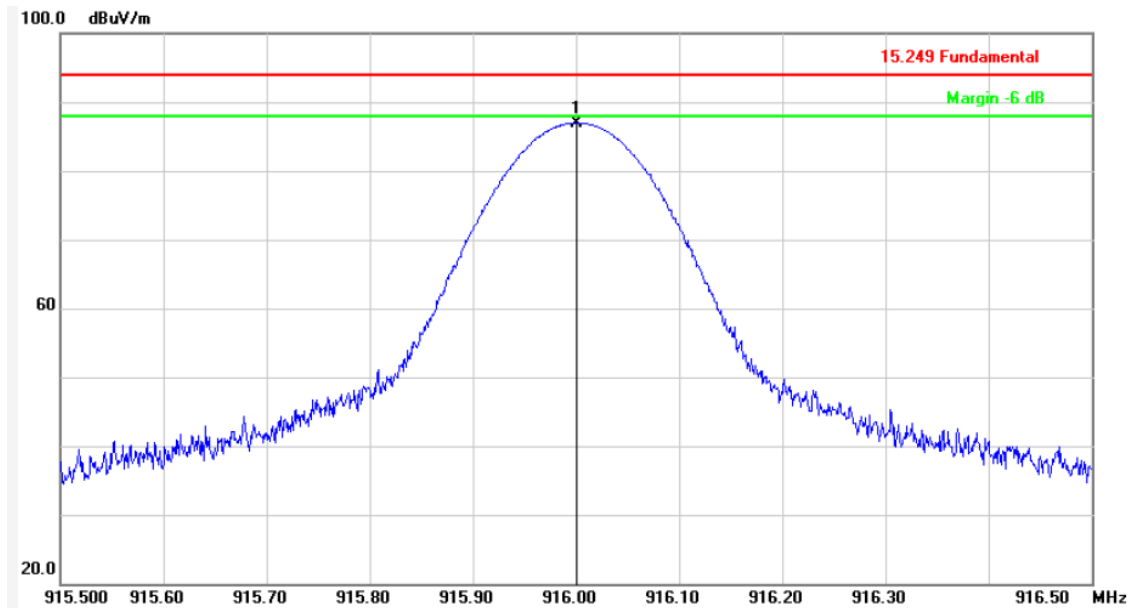


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	908.4010	-4.35	98.20	93.85	94.00	-0.15	QP	108	125	P

Note: Level = Reading + Factor
Margin = Level - Limit



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 916MHz	Temperature	: 22.3 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Modulation Type	:	Atmospheric Pressure	: 1008 hPa



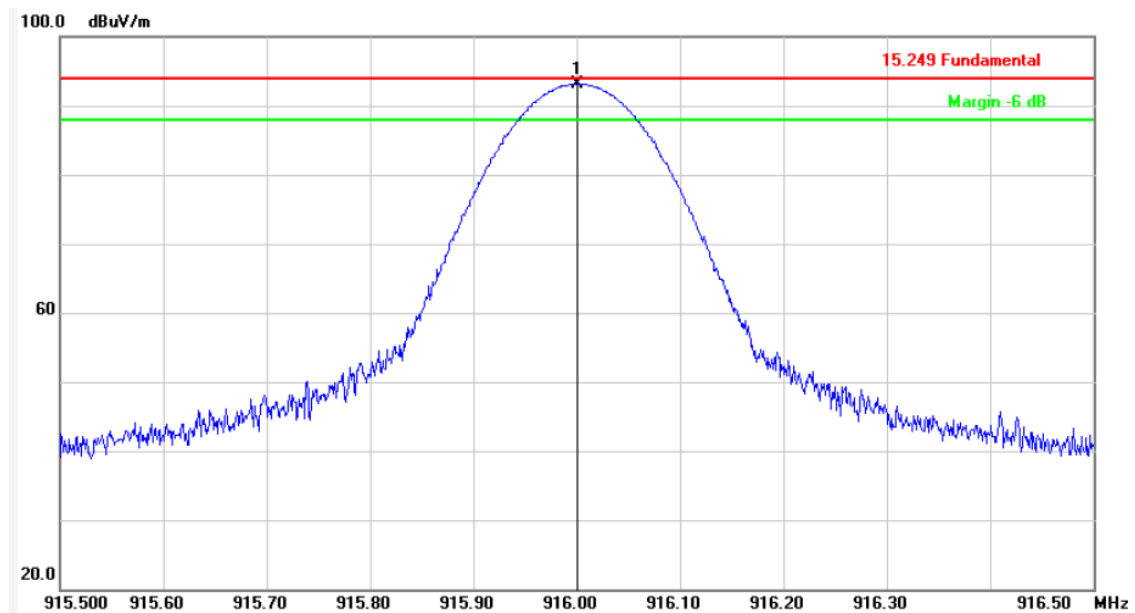
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	916.0010	-4.17	91.09	86.92	94.00	-7.08	QP	100	149	P

Note: Level = Reading + Factor

Margin = Level - Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 916MHz	Temperature	: 22.3 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Modulation Type	:	Atmospheric Pressure	: 1008 hPa



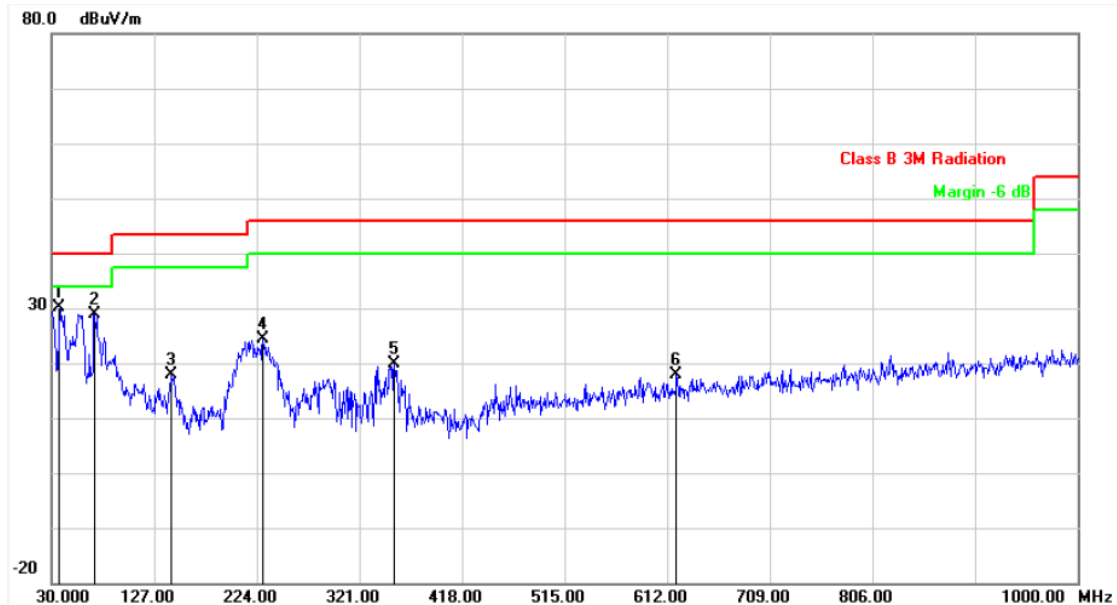
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	916.0010	-4.17	97.28	93.11	94.00	-0.89	QP	100	126	P

Note: Level = Reading + Factor
Margin = Level – Limit



5.4.2. Test Result of Unwanted Spurious emission (30MHz ~ 1GHz)

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 908.4MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

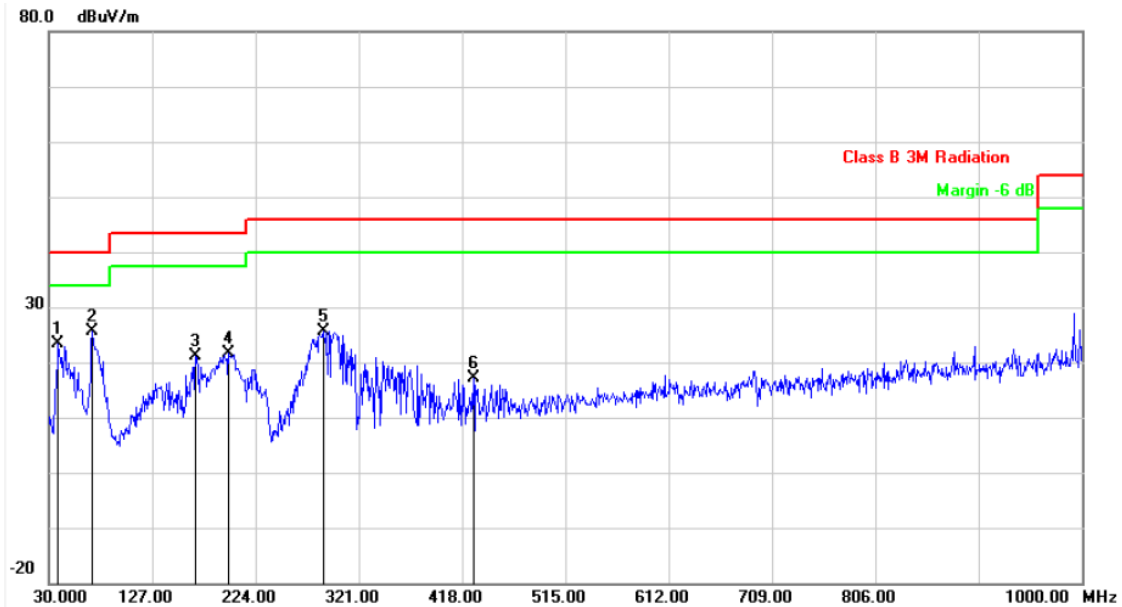


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	37.7599	-17.90	47.99	30.09	40.00	-9.91	peak	200	0	P
2	70.7400	-20.96	49.83	28.87	40.00	-11.13	peak	200	0	P
3	142.5200	-18.51	36.28	17.77	43.50	-25.73	peak	200	0	P
4	229.8200	-20.46	44.74	24.28	46.00	-21.72	peak	200	0	P
5	353.9800	-16.00	35.94	19.94	46.00	-26.06	peak	200	0	P
6	620.7300	-9.66	27.63	17.97	46.00	-28.03	peak	200	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 908.4MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

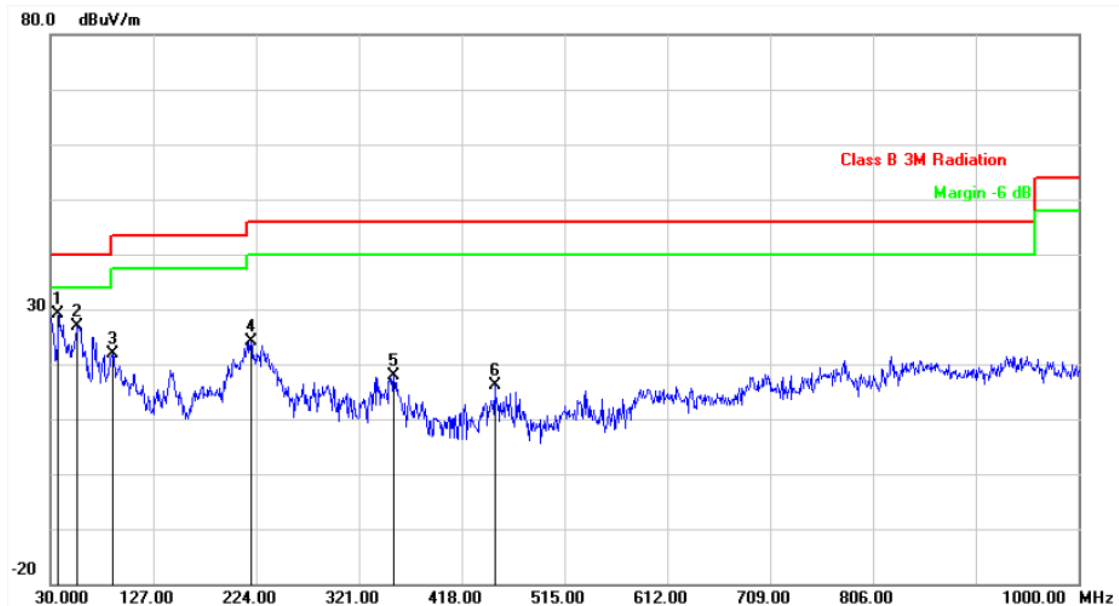


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	38.7300	-17.89	41.17	23.28	40.00	-16.72	peak	100	0	P
2	70.7400	-20.96	46.65	25.69	40.00	-14.31	peak	100	0	P
3	167.7400	-18.66	39.75	21.09	43.50	-22.41	peak	100	0	P
4	198.7800	-21.21	42.85	21.64	43.50	-21.86	peak	100	0	P
5	288.0200	-17.84	43.55	25.71	46.00	-20.29	peak	100	0	P
6	428.6700	-13.96	31.17	17.21	46.00	-28.79	peak	100	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 916MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

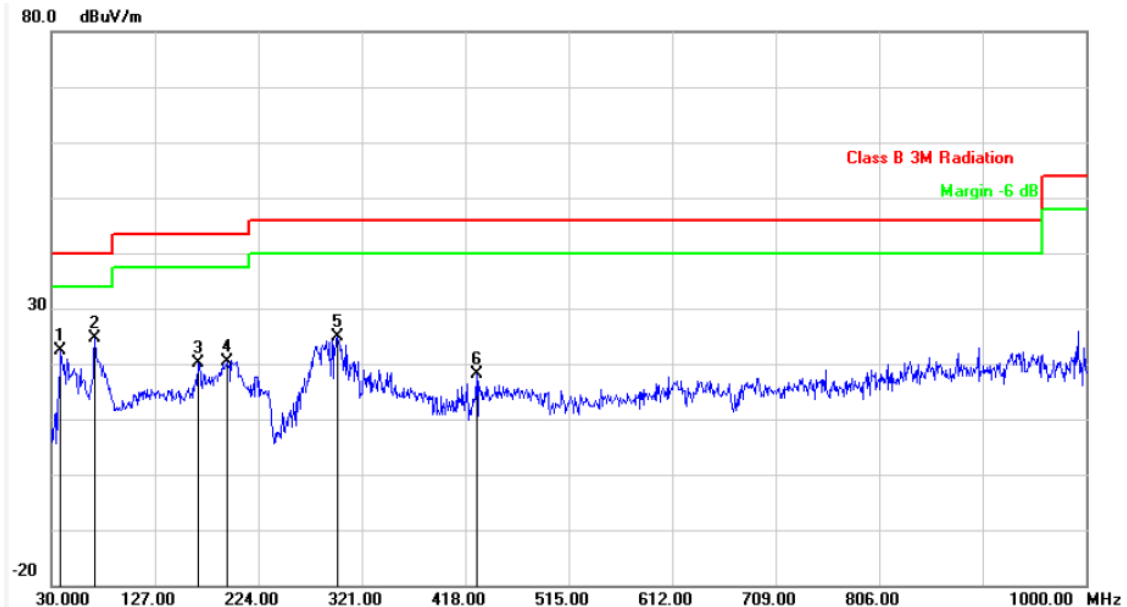


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	37.7599	-17.90	46.99	29.09	40.00	-10.91	peak	200	0	P
2	55.2199	-18.56	45.36	26.80	40.00	-13.20	peak	200	0	P
3	88.2000	-24.55	46.37	21.82	43.50	-21.68	peak	200	0	P
4	219.1500	-21.03	45.08	24.05	46.00	-21.95	peak	200	0	P
5	353.9800	-16.00	33.94	17.94	46.00	-28.06	peak	200	0	P
6	449.0400	-13.42	29.51	16.09	46.00	-29.91	peak	200	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 916MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa



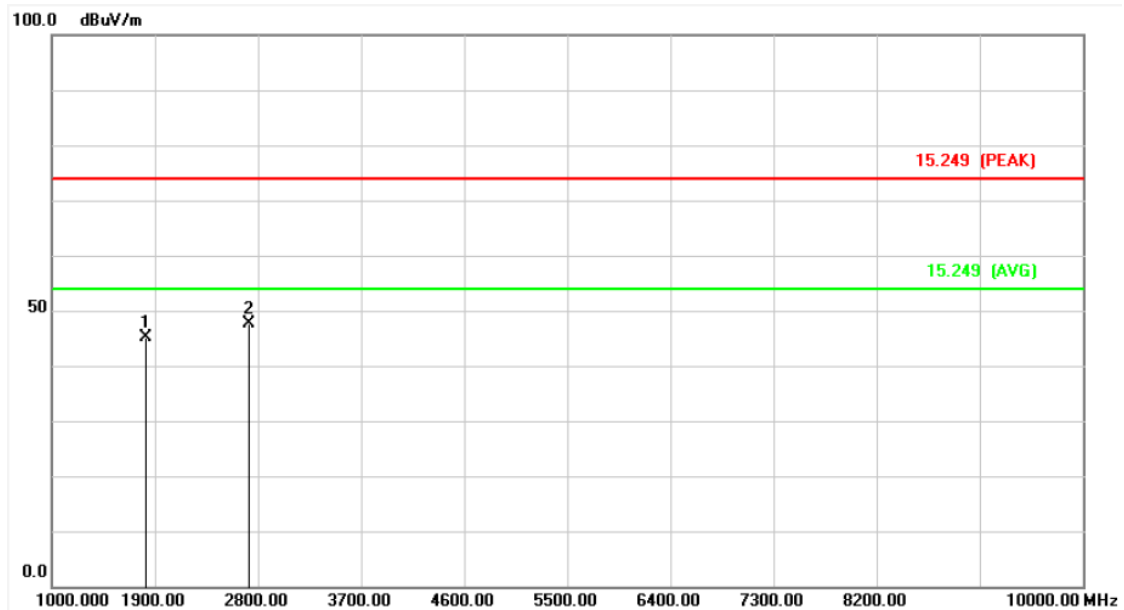
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	38.7299	-17.89	40.17	22.28	40.00	-17.72	peak	100	0	P
2	70.7399	-20.96	45.65	24.69	40.00	-15.31	peak	100	0	P
3	167.7400	-18.66	38.75	20.09	43.50	-23.41	peak	100	0	P
4	194.9000	-21.12	41.48	20.36	43.50	-23.14	peak	100	0	P
5	297.7200	-17.59	42.57	24.98	46.00	-21.02	peak	100	0	P
6	428.6700	-13.96	32.17	18.21	46.00	-27.79	peak	100	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



5.4.3. Test Result of Unwanted Spurious emission (1GHz ~ 13GHz)

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 908.4MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

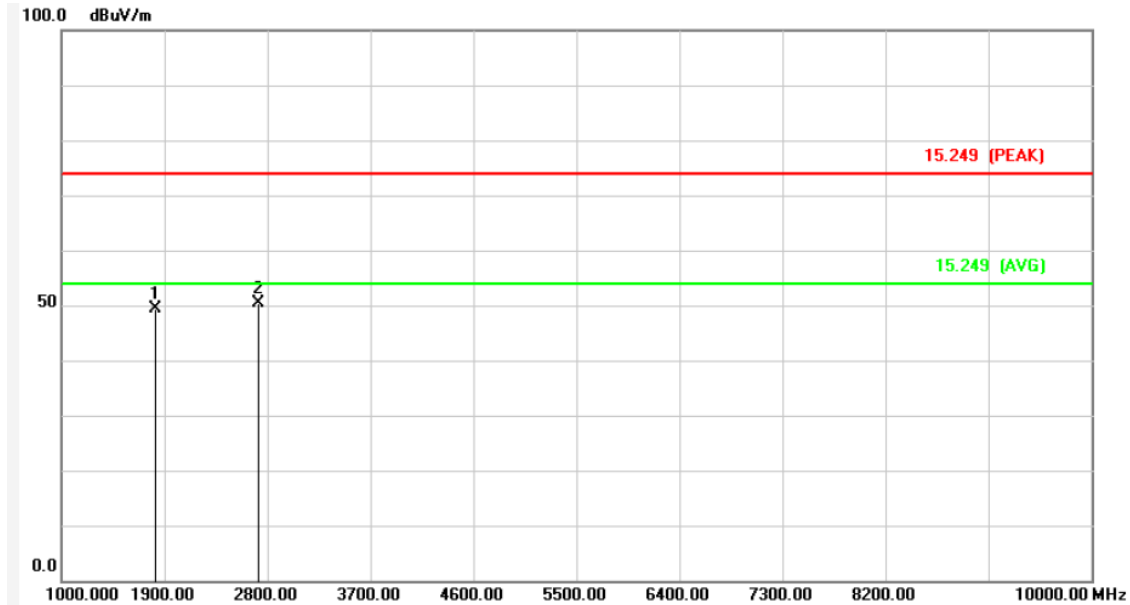


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	1816.000	-3.48	48.59	45.11	74.00	-28.89	peak	200	0	P
2	2725.000	0.56	47.07	47.63	74.00	-26.37	peak	200	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 908.4MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

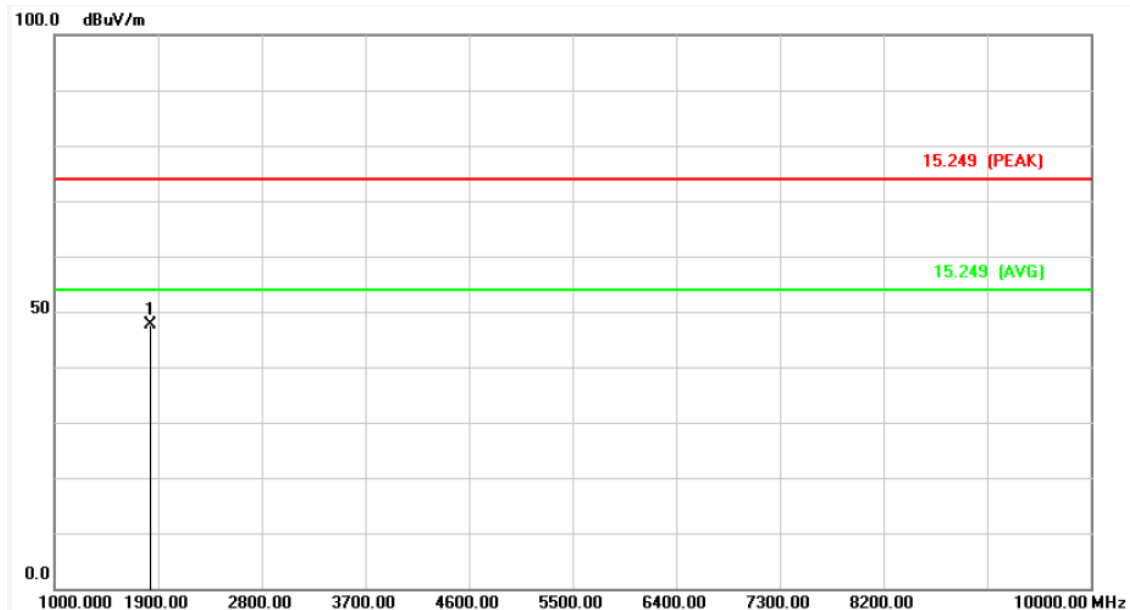


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	1816.350	-3.48	52.81	49.33	74.00	-24.67	peak	100	0	P
2	2725.000	0.56	49.91	50.47	74.00	-23.53	peak	100	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 916MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

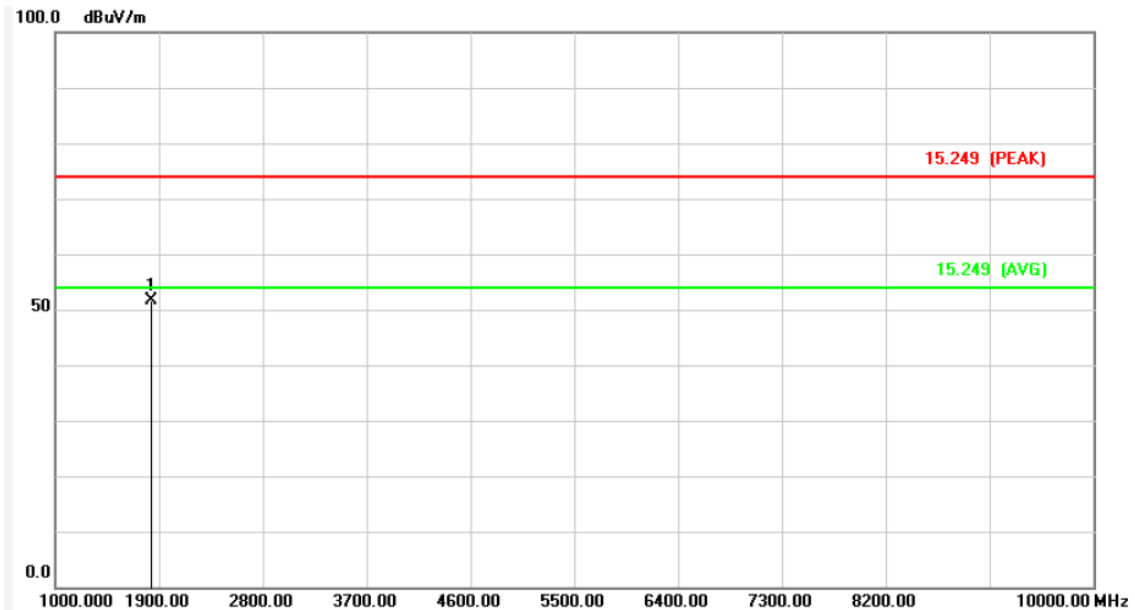


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	1832.000	-3.38	50.96	47.58	74.00	-26.42	peak	200	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 916MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa



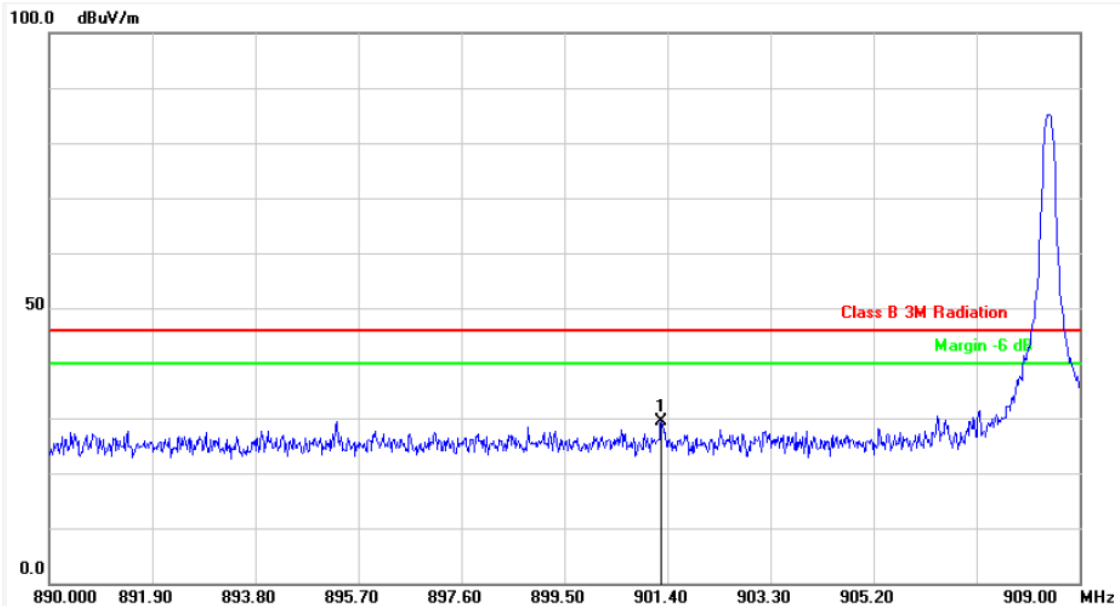
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	1832.000	-3.38	54.89	51.51	74.00	-22.49	peak	100	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



5.4.4. Test Result of Band Edges Measurement

Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 908.4MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

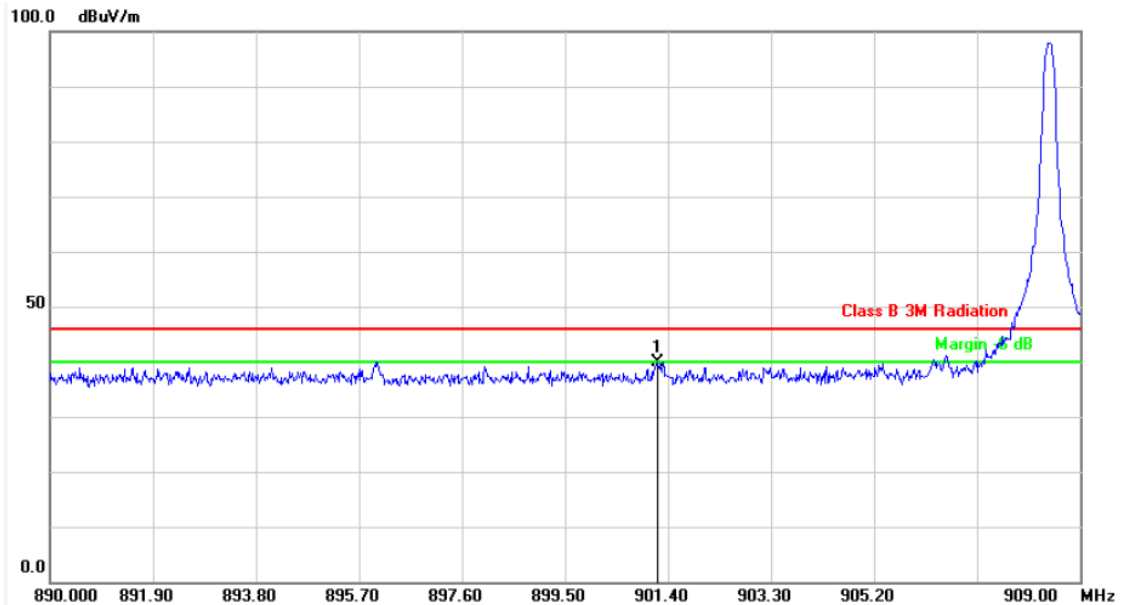


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	901.2860	-4.63	33.89	29.26	46.00	-16.74	peak	200	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 908.4MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

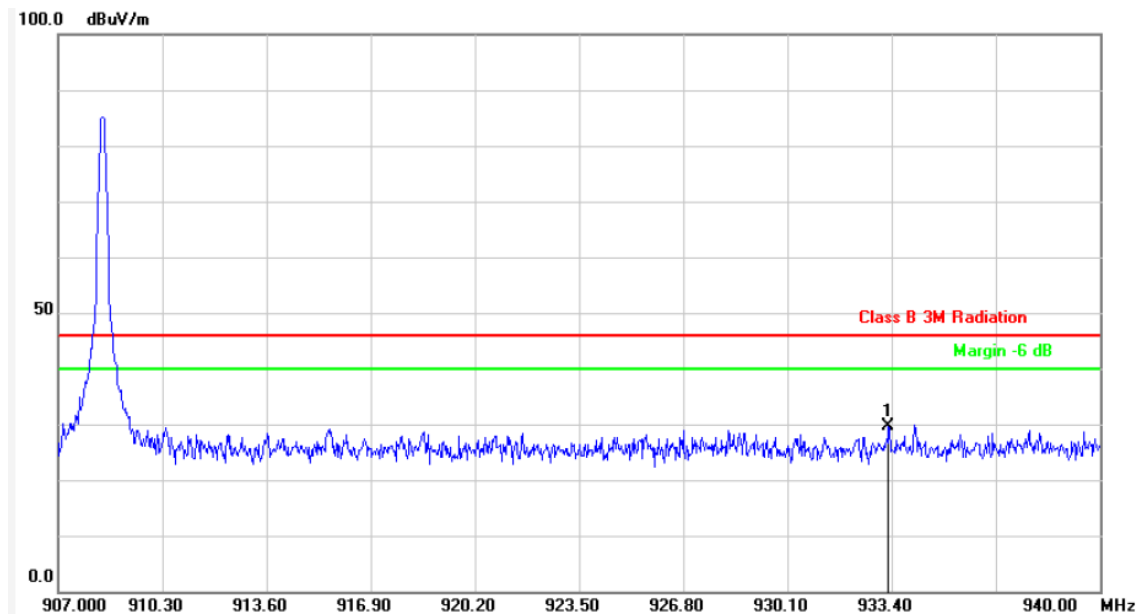


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	901.2100	5.37	34.47	39.84	46.00	-6.16	peak	100	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 908.4MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa



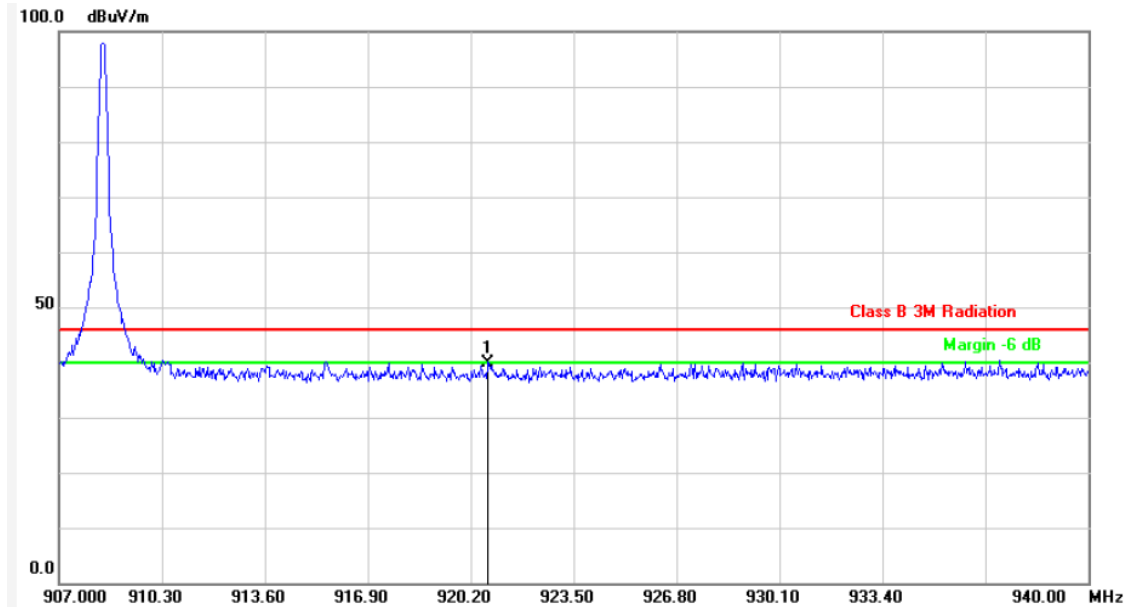
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	933.3010	-4.01	33.69	29.68	46.00	-16.32	peak	200	0	P

Note: Level = Reading + Factor

Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 908.4MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

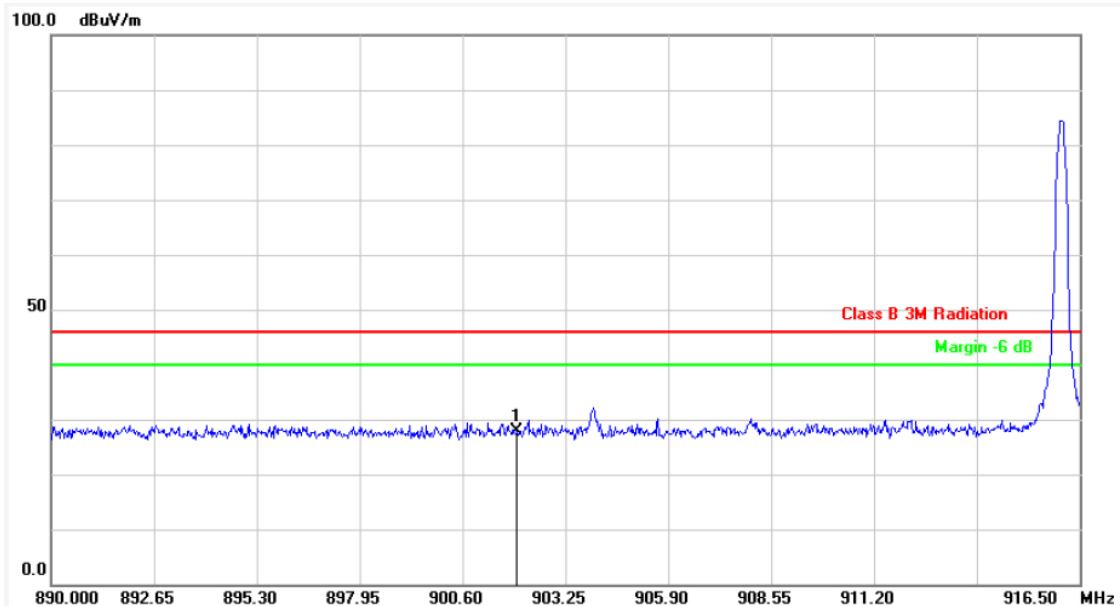


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	920.7610	5.75	34.13	39.88	46.00	-6.12	peak	100	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 916MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

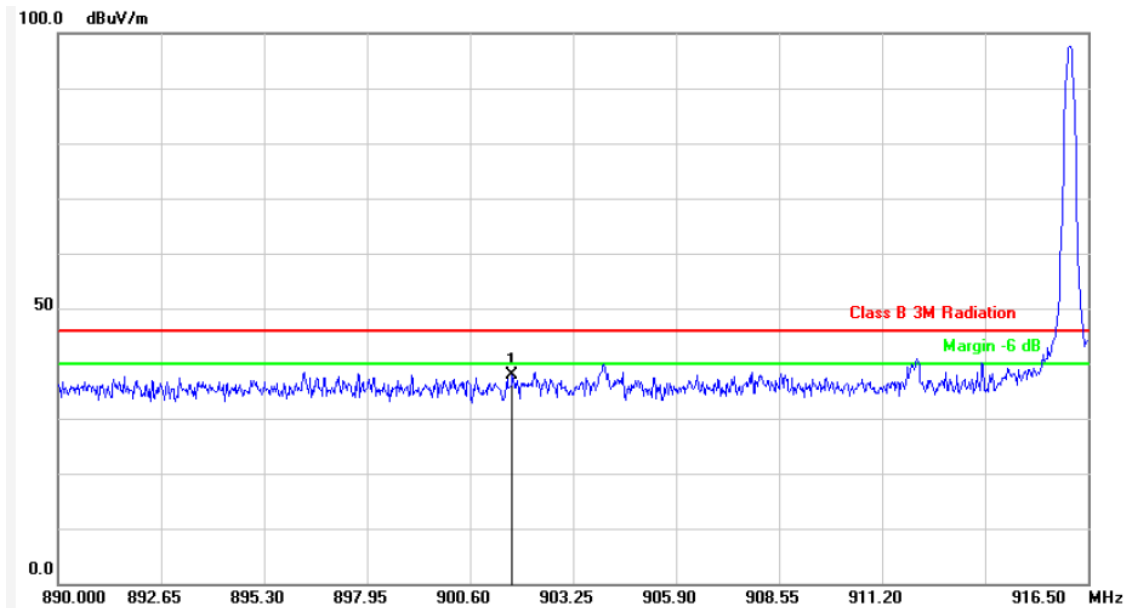


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	902.0000	-4.61	32.53	27.92	46.00	-18.08	peak	200	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 916MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa

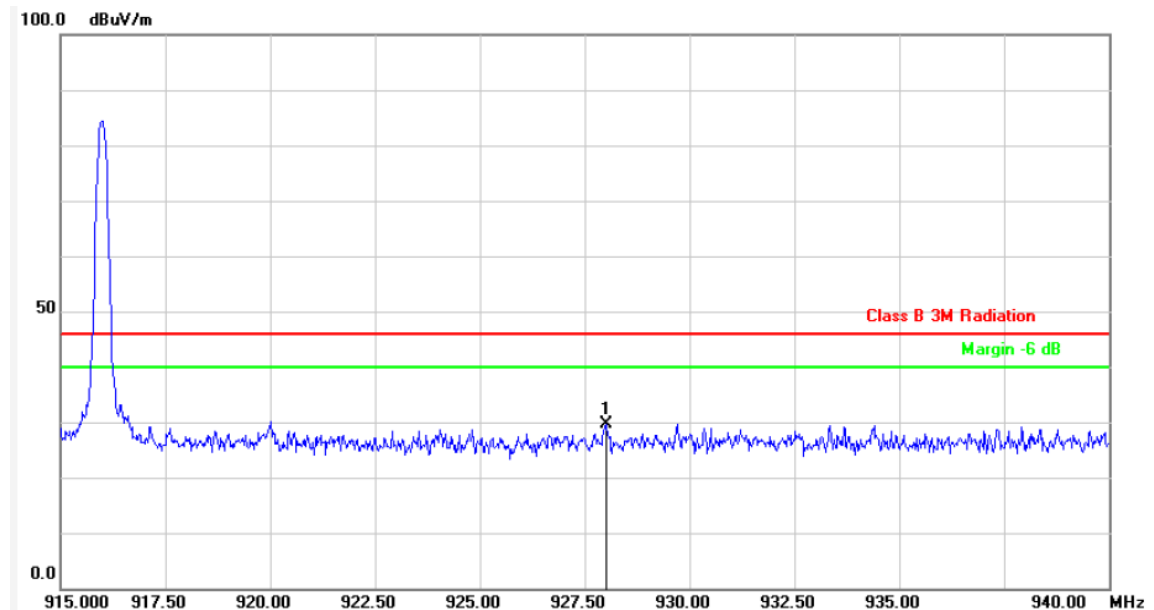


No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	901.6865	5.38	32.38	37.76	46.00	-8.24	peak	100	0	P

Note: Level = Reading + Factor
Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: VERTICAL
Test Mode	: TX, 916MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa



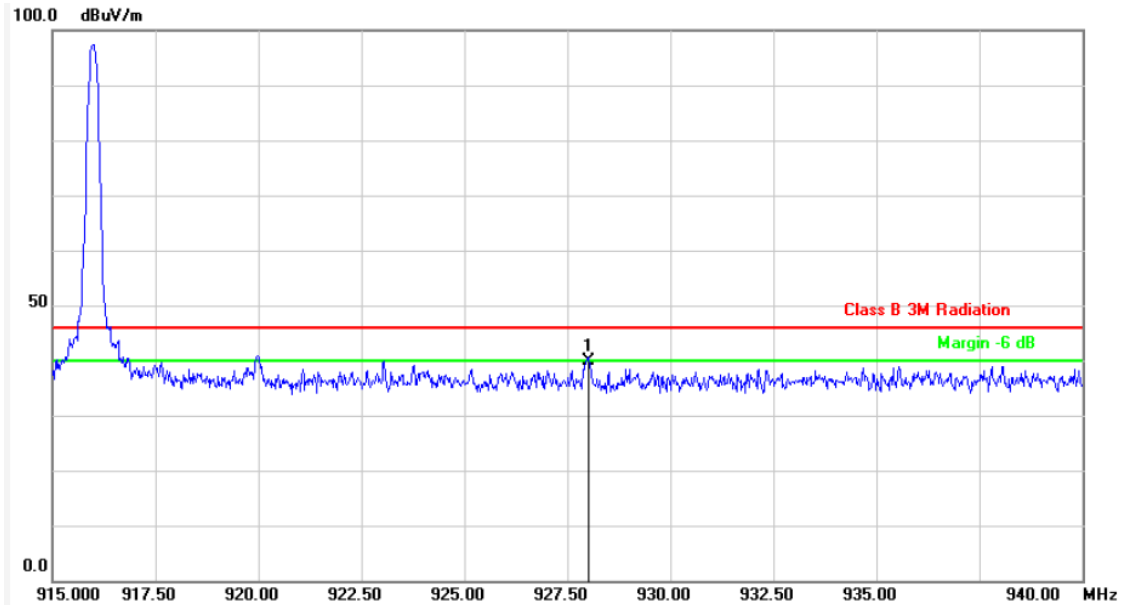
No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	928.0000	-4.11	33.68	29.57	46.00	-16.43	peak	200	0	P

Note: Level = Reading + Factor

Margin = Level – Limit



Power	: AC 120V	Pol/Phase	: HORIZONTAL
Test Mode	: TX, 916MHz	Temperature	: 23 °C
Test Date	: Nov. 05, 2015	Humidity	: 49 %
Memo	:	Atmospheric Pressure	: 1008 hPa



No.	Frequency (MHz)	Factor (dB/m)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (°)	P/F
1	928.0000	5.89	33.99	39.88	46.00	-6.12	peak	100	0	P

Note: Level = Reading + Factor
Margin = Level – Limit