

FCC Test Report

Report No.: RF190104C22-5

FCC ID: AZ489FT7119

Model: H55TGT9PW8AN

Received Date: Jan. 04, 2019

Test Date: Jan. 11 ~ Feb. 22, 2019

Issued Date: Feb. 26, 2019

Applicant: Motorola Solutions, Inc.

Address: 8000 West Sunrise Boulevard, Fort Lauderdale, Florida 33322

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, R.O.C.

Test Location: No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)

**FCC Registration/
Designation Number:** 788550 / TW0003



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Table of Contents

Release Control Record	3
1 Certificate of Conformity	4
2 Summary of Test Results	5
2.1 Measurement Uncertainty.....	5
2.2 Modification Record.....	5
3 General Information	6
3.1 General Description of EUT.....	6
3.2 Description of Test Modes.....	6
3.2.1 Test Mode Applicability and Tested Channel Deta.....	7
3.3 Description of Support Units.....	9
3.3.1 Configuration of System under Test.....	9
3.4 General Description of Applied Standards.....	10
4 Test Types and Results	11
4.1 Radiated Emission Measurement.....	11
4.1.1 Limits of Radiated Emission Measurement.....	11
4.1.2 Test Instruments.....	12
4.1.3 Test Procedures.....	13
4.1.4 Deviation from Test Standard.....	14
4.1.5 Test Set Up.....	14
4.1.6 EUT Operating Conditions.....	15
4.1.7 Test Results.....	16
4.2 Conducted Emission Measurement.....	88
4.2.1 Limits of Conducted Emission Measurement.....	88
4.2.2 Test Instruments.....	88
4.2.3 Test Procedures.....	89
4.2.4 Deviation from Test Standard.....	89
4.2.5 Test Setup.....	89
4.2.6 EUT Operating Conditions.....	89
4.2.7 Test Results.....	90
4.3 Frequency Stability.....	96
4.3.1 Limits of Frequency Stability Measurement.....	96
4.3.2 Test Setup.....	96
4.3.3 Test Instruments.....	96
4.3.4 Test Procedure.....	96
4.3.5 Deviation from Test Standard.....	97
4.3.6 EUT Operating Conditions.....	97
4.3.7 Test Result.....	98
4.4 20dB Bandwidth.....	99
4.4.1 Limits of 20dB Bandwidth Measurement.....	99
4.4.2 Test Setup.....	99
4.4.3 Test Instruments.....	99
4.4.4 Test Procedures.....	99
4.4.5 Deviation from Test Standard.....	99
4.4.6 EUT Operating Conditions.....	99
4.4.7 Test Results.....	100
5 Pictures of Test Arrangements	104
Appendix – Information of the Testing Laboratories	105



Release Control Record

Issue No.	Description	Date Issued
RF190104C22-5	Original release	Feb. 26, 2019

1 Certificate of Conformity

Product: Portable Radio

Brand: Motorola Solutions

Model: H55TGT9PW8AN

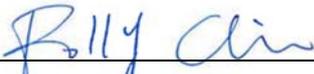
Sample Status: Engineering sample

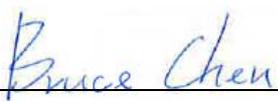
Applicant: Motorola Solutions, Inc.

Test Date: Jan. 11 ~ Feb. 22, 2019

Standards: 47 CFR FCC Part 15, Subpart C (Section 15.225)
47 CFR FCC Part 15, Subpart C (Section 15.215)
ANSI C63.10:2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by :  , **Date:** Feb. 26, 2019
Polly Chien / Specialist

Approved by :  , **Date:** Feb. 26, 2019
Bruce Chen / Project Engineer

2 Summary of Test Results

47 CFR FCC Part 15, Subpart C (Section 15.225, 15.215)			
FCC Clause	Test Item	Result	Remarks
15.207	Conducted emission test	Pass	Meet the requirement of limit. Minimum passing margin is -2.94dB at 13.55859MHz
15.225 (a)	The field strength of any emissions within the band 13.553-13.567 MHz	Pass	Meet the requirement of limit. Minimum passing margin is -72.30dB at 13.56MHz.
15.225 (b)	The field strength of any emissions within the bands 13.410-13.553 MHz and 13.567-13.710 MHz	Pass	Meet the requirement of limit.
15.225 (c)	The field strength of any emissions within the bands 13.110-13.410 MHz and 13.710-14.010 MHz	Pass	Meet the requirement of limit.
15.225 (d)	The field strength of any emissions appearing outside of the 13.110-14.010 MHz band	Pass	Meet the requirement of limit. Minimum passing margin is -1.9dB at 31.94MHz.
15.225 (e)	The frequency tolerance	Pass	Meet the requirement of limit.
15.215 (c)	20dB Bandwidth	Pass	Meet the requirement of limit.
15.203	Antenna Requirement	Pass	No antenna connector is used.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (\pm)
Conducted Emissions at mains ports	150kHz ~ 30MHz	2.94 dB
	30MHz ~ 200MHz	3.59 dB
Radiated Emissions up to 1 GHz	200MHz ~1000MHz	3.60 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	Portable Radio
Brand	Motorola Solutions
Model	H55TGT9PW8AN
Sample Status	Engineering sample
Power Supply Rating	14.5Vdc (Single Unit Charger) 12Vdc (Multi-unit Charger) 5Vdc (host equipment) 7.4Vdc (Battery)
Modulation Type	ASK
Data Rate	Type A: 106 kbit/s Type B: 106 kbit/s Type F: 212 kbit/s, 424 kbit/s Type V: 26.48 kbit/s
Operating Frequency	13.56MHz
Field Strength	11.70 dBuV/m (for 30m)
Antenna Type	Loop antenna
Accessory Device	NA
Data Cable Supplied	NA

Note:

1. The EUT uses following devices.

Item	Brand	Model	Specification	Remark
Single Unit Charger	MOTOROLA	NNTN8845A (Charger Base) +PS000040A01 (Power Supply)	Input: 110-120Vac, ~60Hz, 1A Output: 14.5Vdc, 2.5A 1.5m DC cable with 1 core attached	Accessory
Standard Cap Battery	MOTOROLA	NNTN9087A	BATTERY PACK, IMPRES GEN2, LIION, IP68, 3800T Rating: 7.4Vdc	Accessory
Hi-Cap Battery	MOTOROLA	NNTN9089A	BATTERY PACK, IMPRES GEN2, LIION, IP68, 5650T Rating: 7.4Vdc	Accessory
Multi-unit Charger	MOTOROLA	NNTN9115A (Charger Base) + 3087791G01 (Linecord)	Input: 100-240Vac, 50/60Hz, 3A Output: 12Vdc, 3A 2.2m DC cable without core attached	Accessory

2. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

1 channel is provided to this EUT

Channel	Freq. (MHz)
1	13.56

3.2.1 Test Mode Applicability and Tested Channel Data

EUT Configure Mode	Applicable to				Description
	RE	PLC	FS	EB	
A1	√	√	√	√	With type A EUT with Notebook EUT with single unit charger EUT with multi-unit charger
A2	√	√	-	-	
A3	√	√	-	-	
B1	√	-	-	√	With type B EUT with Notebook EUT with single unit charger EUT with multi-unit charger
B2	√	-	-	-	
B3	√	-	-	-	
C1	√	-	-	√	With type F EUT with Notebook EUT with single unit charger EUT with multi-unit charger
C2	√	-	-	-	
C3	√	-	-	-	
D1	√	-	-	√	With type V EUT with Notebook EUT with single unit charger EUT with multi-unit charger
D2	√	-	-	-	
D3	√	-	-	-	

Where RE: Radiated Emission
FS: Frequency Stability

PLC: Power Line Conducted Emission
EB: 20dB Bandwidth measurement

Note:

- The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Z-plane**.
- "-" means no effect.
- The EUT had been pre-tested on Type A, Type B, Type F, Type V. The worst case was found when data rate was Type A, Type A was chosen for final test.

Radiated Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A1, A2, A3, B1, B2, B3, C1, C2, C3, D1, D2, D3	1	1	ASK

Power Line Conducted Emission Test:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A1, A2, A3	1	1	ASK

Frequency Stability:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A1	1	1	ASK

20dB Bandwidth:

- Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- Following channel(s) was (were) selected for the final test as listed below.

EUT Configure Mode	Available Channel	Tested Channel	Modulation Type
A1, B1, C1, D1	1	1	ASK

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
RE	25deg. C, 72%RH 22deg. C, 68%RH 25deg. C, 70%RH	120Vac, 60Hz	Noah Chang, Luis Lee
PLC	25deg. C, 75%RH	120Vac, 60Hz	Greg Lin
FS	25deg. C, 72%RH	120Vac, 60Hz	Noah Chang
BW	25deg. C, 72%RH	120Vac, 60Hz	Noah Chang

3.3 Description of Support Units

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

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	DELL	E5420	BPQ7MQ1	FCC DoC Approved	-
B.	Battery	MOTOROLA	NNTN9087A	NA	NA	Accessory
C.	Battery	MOTOROLA	NNTN9089A	NA	NA	Accessory
D.	USB Resistive Load x2	NA	NA	NA	NA	Provided by client
E.	USB Resistive Load x6	NA	NA	NA	NA	Provided by client
F.	Fleet Management Module	NA	NA	NA	NA	Provided by client

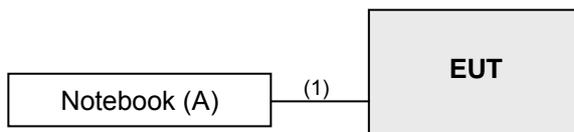
Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item A acted as communication partner to transfer data.

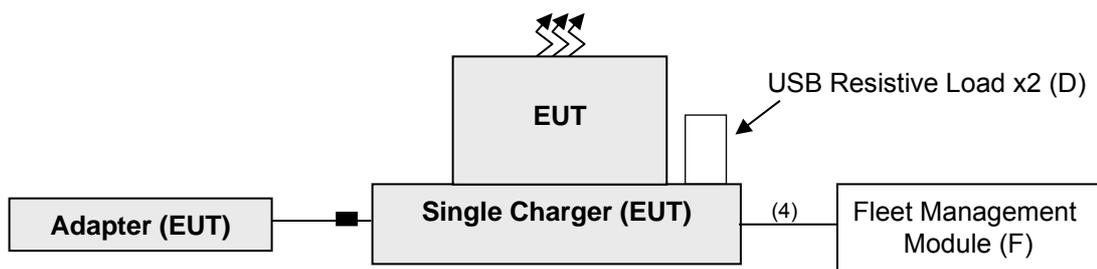
ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	USB Cable	1	1.5	Y	0	-
2.	USB Cable	2	1	Y	0	-
3.	Mini USB cable	1	1	Y	0	Provided by client
4.	Cable	1	0.3	N	0	Provided by client

3.3.1 Configuration of System under Test

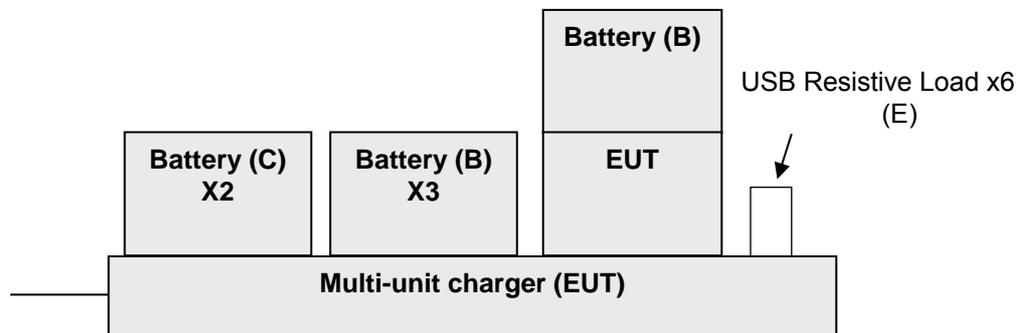
Mode A1, B1, C1, D1



Mode A2, B2, C2, D2



Mode A3, B3, C3, D3



3.4 General Description of Applied Standards

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

FCC Part 15, Subpart C (15.225)

FCC Part 15, Subpart C (15.215)

ANSI C63.10-2013

All test items have been performed and recorded as per the above standards.

4 Test Types and Results

4.1 Radiated Emission Measurement

4.1.1 Limits of Radiated Emission Measurement

The field strength of any emissions within the band 13.553-13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.

Within the bands 13.410-13.553 MHz and 13.567-13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.

Within the bands 13.110-13.410 MHz and 13.710-14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.

The field strength of any emissions appearing outside of the 13.110-14.010 MHz band shall not exceed the general radiated emission limits in § 15.209.

Frequencies (MHz)	Field Strength (microvolts/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:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

4.1.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 11, 2018	Apr. 10, 2019
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100269	May 29, 2018	May 28, 2019
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 21, 2018	Nov. 20, 2019
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 25, 2018	Nov. 24, 2019
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 25, 2018	Nov. 24, 2019
Loop Antenna TESEQ	HLA 6121	45745	Jun. 14, 2018	Jun. 13, 2019
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Aug. 08, 2018	Aug. 07, 2019
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 22, 2018	Feb. 21, 2019
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM800 0	CABLE-CH9-02 (248780+171006)	Jan. 15, 2018	Jan. 14, 2019
			Jan. 19, 2019	Jan. 18, 2020
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(250795/4)	Aug. 08, 2018	Aug. 07, 2019
RF signal cable Woken	8D-FB	Cable-CH9-01	Jul. 31, 2018	Jul. 30, 2019
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower EMCO	2070/2080	512.835.4684	NA	NA
Turn Table EMCO	2087-2.03	NA	NA	NA
Antenna Tower &Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
USB Wideband Power Sensor KEYSIGHT	U2021XA	MY55050005/MY5519000 4/MY55190007/MY55210 005	Jul. 17, 2018	Jul. 16, 2019

- Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 2. The test was performed in HwaYa Chamber 9.
 3. The FCC Designation Number is TW0003. The number will be varied with the Lab location and scope as attached.
 4. The IC Site Registration No. is IC 7450F-9.

4.1.3 Test Procedures

For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

Note:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.
2. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

For Radiated emission above 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Note:

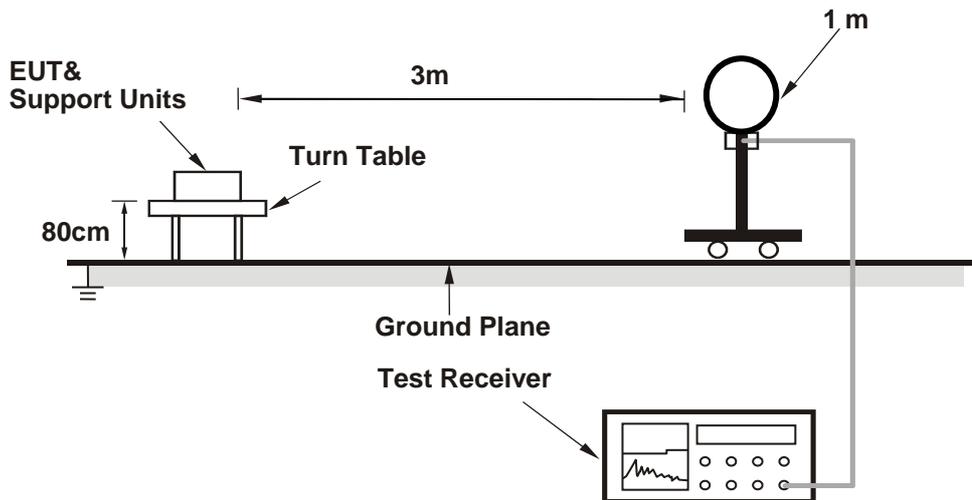
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

4.1.4 Deviation from Test Standard

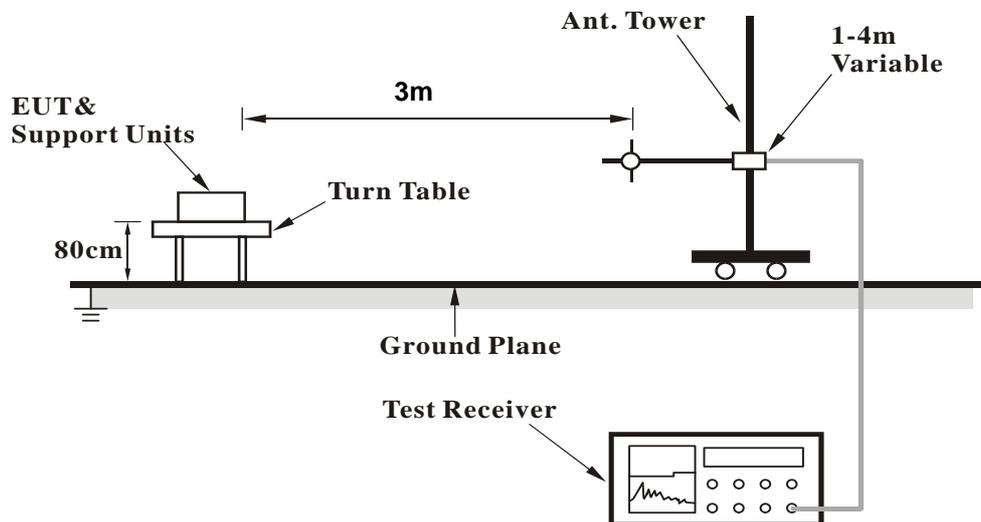
No deviation.

4.1.5 Test Set Up

For Radiated emission below 30MHz



For Radiated emission 30MHz to 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.1.6 EUT Operating Conditions

Mode A1, B1, C1, D1

- a. Connected the EUT with the notebook.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

Mode A2, B2, C2, D2

- a. Placed the EUT on the charger under charging.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

Mode A3, B3, C3, D3

- a. Placed the EUT and batteries on the charger under charging.
- b. Set the EUT under transmission condition continuously at specific channel frequency.

KDB 414788 D01 Radiated Test Site v01r01

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

4.1.7 Test Results

Mode A1

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	51.70 QP	124.00 QP	-72.30	1.00	321	29.90	21.80

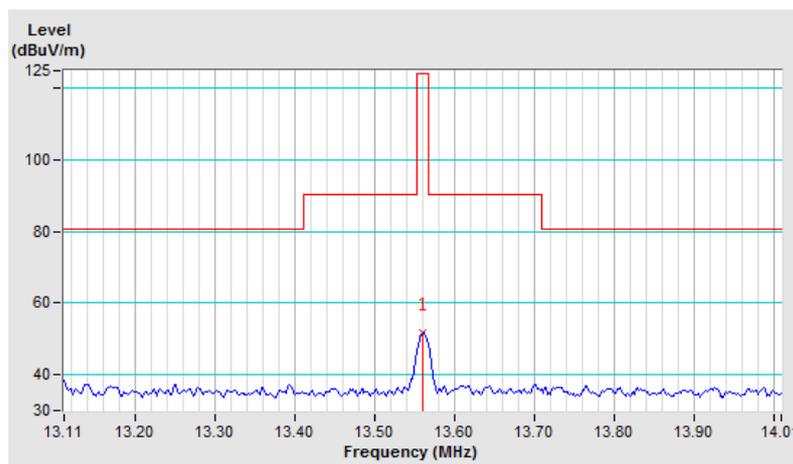
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	11.70 QP	84.00	-72.30

Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	48.10 QP	124.00 QP	-75.90	1.00	219	26.30	21.80

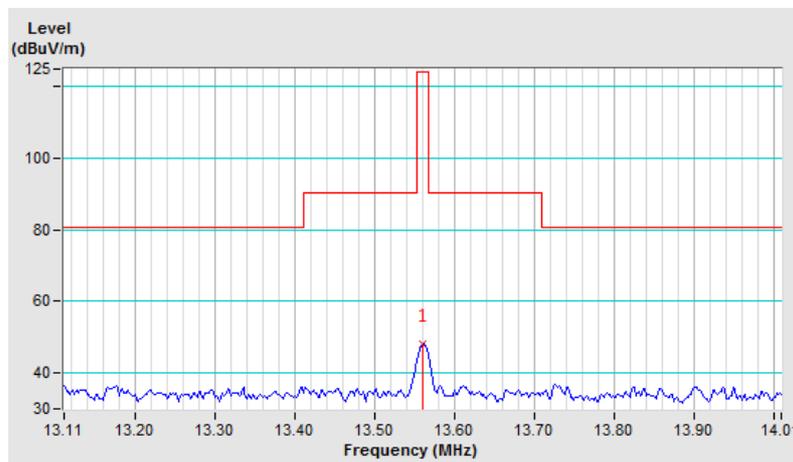
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	8.10 QP	84.00	-75.90

Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	46.60 QP	124.00 QP	-77.40	1.00	122	24.80	21.80

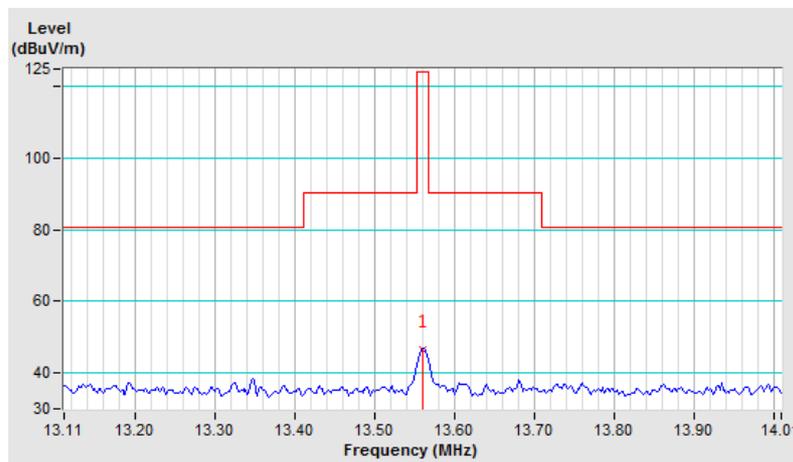
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	6.60 QP	84.00	-77.40

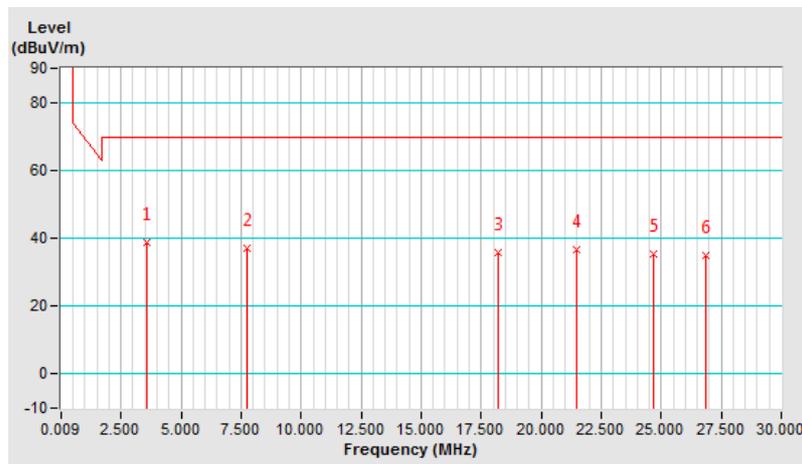
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.55	38.70 QP	69.50 QP	-30.80	1.00	138	18.90	19.80
2	7.75	36.90 QP	69.50 QP	-32.60	1.00	358	15.70	21.20
3	18.18	35.60 QP	69.50 QP	-33.90	1.00	231	13.80	21.80
4	21.48	36.80 QP	69.50 QP	-32.70	1.00	347	14.90	21.90
5	24.66	35.30 QP	69.50 QP	-34.20	1.00	201	13.30	22.00
6	26.88	35.00 QP	69.50 QP	-34.50	1.00	230	12.90	22.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.55	-1.30 QP	29.50 QP	-30.80
2	7.75	-3.10 QP	29.50 QP	-32.60
3	18.18	-4.40 QP	29.50 QP	-33.90
4	21.48	-3.20 QP	29.50 QP	-32.70
5	24.66	-4.70 QP	29.50 QP	-34.20
6	26.88	-5.00 QP	29.50 QP	-34.50

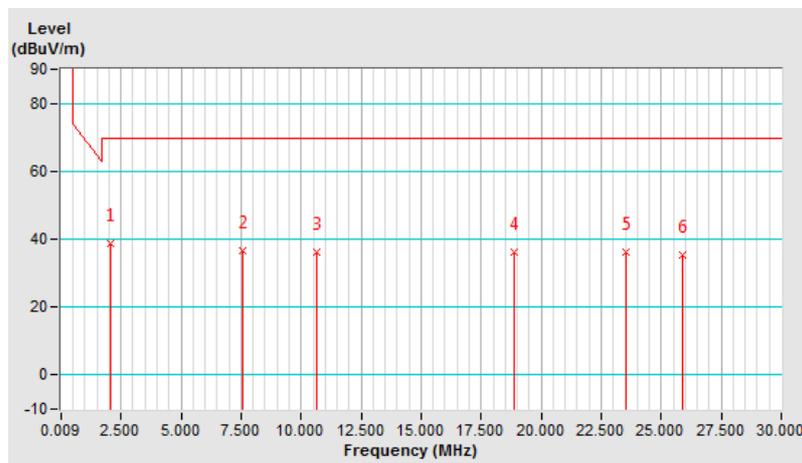
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.05	38.70 QP	69.50 QP	-30.80	1.00	251	18.90	19.80
2	7.57	36.80 QP	69.50 QP	-32.70	1.00	267	15.60	21.20
3	10.63	36.00 QP	69.50 QP	-33.50	1.00	7	14.20	21.80
4	18.90	36.20 QP	69.50 QP	-33.30	1.00	7	14.40	21.80
5	23.52	36.20 QP	69.50 QP	-33.30	1.00	14	14.20	22.00
6	25.86	35.30 QP	69.50 QP	-34.20	1.00	7	13.20	22.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.05	-1.30 QP	29.50 QP	-30.80
2	7.57	-3.20 QP	29.50 QP	-32.70
3	10.63	-4.00 QP	29.50 QP	-33.50
4	18.90	-3.80 QP	29.50 QP	-33.30
5	23.52	-3.80 QP	29.50 QP	-33.30
6	25.86	-4.70 QP	29.50 QP	-34.20

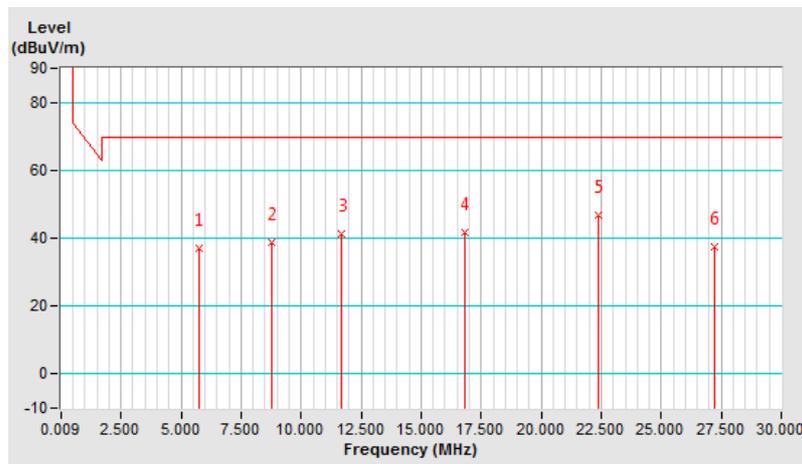
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.95	39.50 QP	69.50 QP	-30.00	1.00	3	20.00	19.50
2	5.11	41.10 QP	69.50 QP	-28.40	1.00	61	20.50	20.60
3	8.59	38.50 QP	69.50 QP	-31.00	1.00	33	17.10	21.40
4	18.00	45.20 QP	69.50 QP	-24.30	1.00	7	23.40	21.80
5	20.16	42.60 QP	69.50 QP	-26.90	1.00	64	20.70	21.90
6	23.16	43.30 QP	69.50 QP	-26.20	1.00	54	21.30	22.00

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.95	-0.50 QP	29.50 QP	-30.00
2	5.11	1.10 QP	29.50 QP	-28.40
3	8.59	-1.50 QP	29.50 QP	-31.00
4	18.00	5.20 QP	29.50 QP	-24.30
5	20.16	2.60 QP	29.50 QP	-26.90
6	23.16	3.30 QP	29.50 QP	-26.20

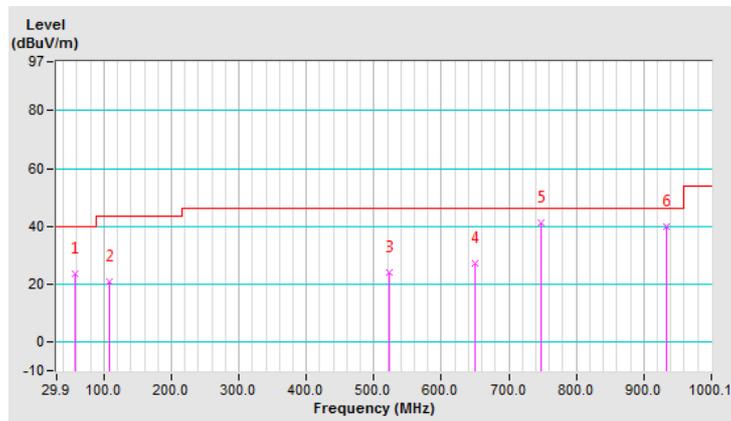
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	57.07	23.5 QP	40.0	-16.5	2.00 H	206	33.1	-9.6
2	107.52	20.8 QP	43.5	-22.7	1.01 H	59	33.0	-12.2
3	522.76	24.2 QP	46.0	-21.8	1.01 H	191	28.7	-4.5
4	650.83	27.0 QP	46.0	-19.0	1.01 H	6	28.6	-1.6
5	747.85	41.1 QP	46.0	-4.9	2.00 H	12	40.2	0.9
6	934.13	39.9 QP	46.0	-6.1	1.01 H	185	36.0	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

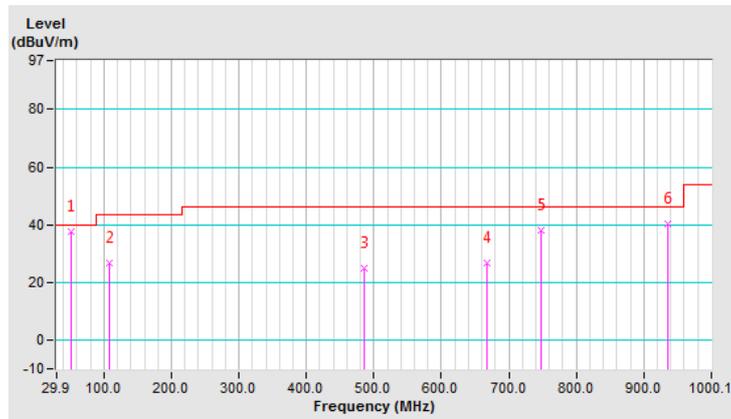


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.24	37.7 QP	40.0	-2.3	1.00 V	108	46.7	-9.0
2	107.52	26.7 QP	43.5	-16.8	1.00 V	12	38.9	-12.2
3	485.89	24.8 QP	46.0	-21.2	1.99 V	13	30.1	-5.3
4	668.29	26.9 QP	46.0	-19.1	1.50 V	72	28.1	-1.2
5	747.85	38.0 QP	46.0	-8.0	1.50 V	232	37.1	0.9
6	936.07	40.5 QP	46.0	-5.5	1.00 V	132	36.5	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



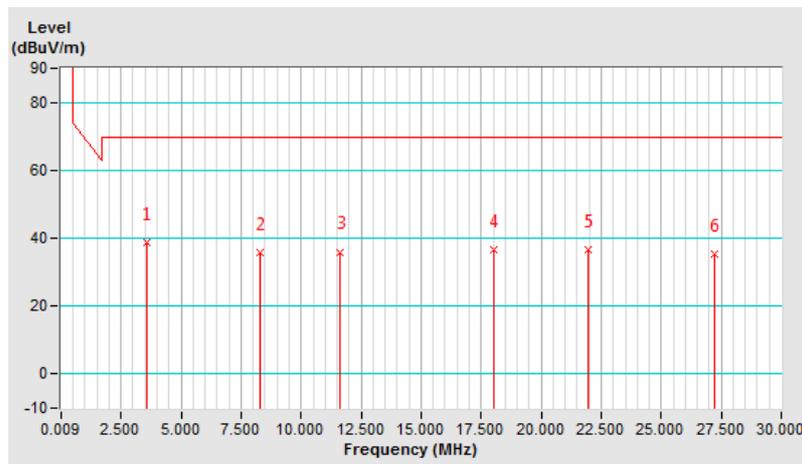
Mode A2

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.55	38.60 QP	69.50 QP	-30.90	1.00	263	18.80	19.80
2	8.29	35.60 QP	69.50 QP	-33.90	1.00	179	14.20	21.40
3	11.65	36.00 QP	69.50 QP	-33.50	1.00	80	14.20	21.80
4	18.00	36.80 QP	69.50 QP	-32.70	1.00	111	15.00	21.80
5	21.96	36.50 QP	69.50 QP	-33.00	1.00	7	14.60	21.90
6	27.24	35.40 QP	69.50 QP	-34.10	1.00	133	13.30	22.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.55	-1.40 QP	29.50 QP	-30.90
2	8.29	-4.40 QP	29.50 QP	-33.90
3	11.65	-4.00 QP	29.50 QP	-33.50
4	18.00	-3.20 QP	29.50 QP	-32.70
5	21.96	-3.50 QP	29.50 QP	-33.00
6	27.24	-4.60 QP	29.50 QP	-34.10

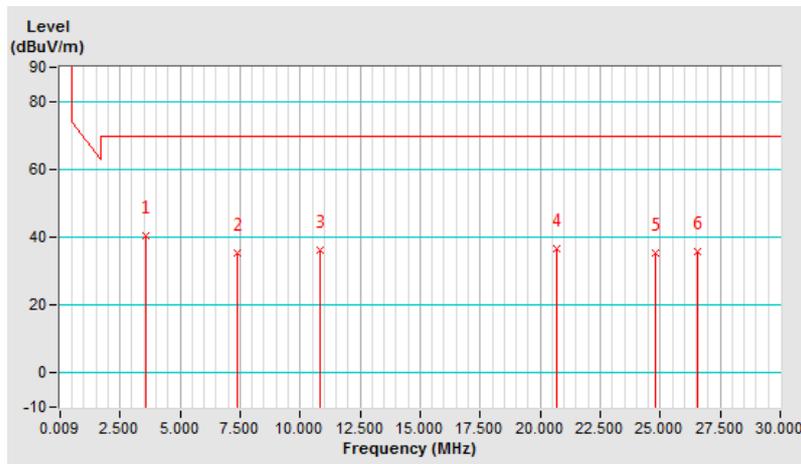
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.55	40.40 QP	69.50 QP	-29.10	1.00	12	20.60	19.80
2	7.39	35.50 QP	69.50 QP	-34.00	1.00	84	14.40	21.10
3	10.81	36.30 QP	69.50 QP	-33.20	1.00	34	14.50	21.80
4	20.70	36.60 QP	69.50 QP	-32.90	1.00	130	14.70	21.90
5	24.78	35.30 QP	69.50 QP	-34.20	1.00	139	13.30	22.00
6	26.58	35.70 QP	69.50 QP	-33.80	1.00	100	13.60	22.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.55	0.40 QP	29.50 QP	-29.10
2	7.39	-4.50 QP	29.50 QP	-34.00
3	10.81	-3.70 QP	29.50 QP	-33.20
4	20.70	-3.40 QP	29.50 QP	-32.90
5	24.78	-4.70 QP	29.50 QP	-34.20
6	26.58	-4.30 QP	29.50 QP	-33.80

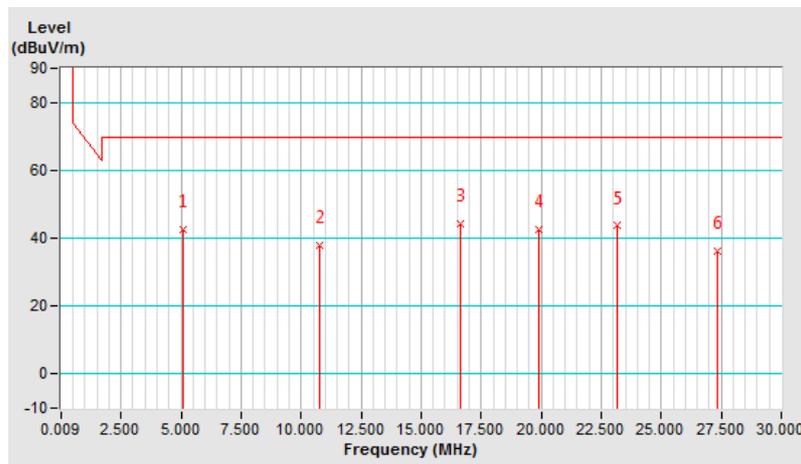
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5.11	42.70 QP	69.50 QP	-26.80	1.00	52	22.10	20.60
2	10.75	37.90 QP	69.50 QP	-31.60	1.00	197	16.10	21.80
3	16.62	44.10 QP	69.50 QP	-25.40	1.00	325	22.30	21.80
4	19.92	42.70 QP	69.50 QP	-26.80	1.00	39	20.90	21.80
5	23.16	43.60 QP	69.50 QP	-25.90	1.00	303	21.60	22.00
6	27.36	36.10 QP	69.50 QP	-33.40	1.00	107	14.00	22.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5.11	2.70 QP	29.50 QP	-26.80
2	10.75	-2.10 QP	29.50 QP	-31.60
3	16.62	4.10 QP	29.50 QP	-25.40
4	19.92	2.70 QP	29.50 QP	-26.80
5	23.16	3.60 QP	29.50 QP	-25.90
6	27.36	-3.90 QP	29.50 QP	-33.40

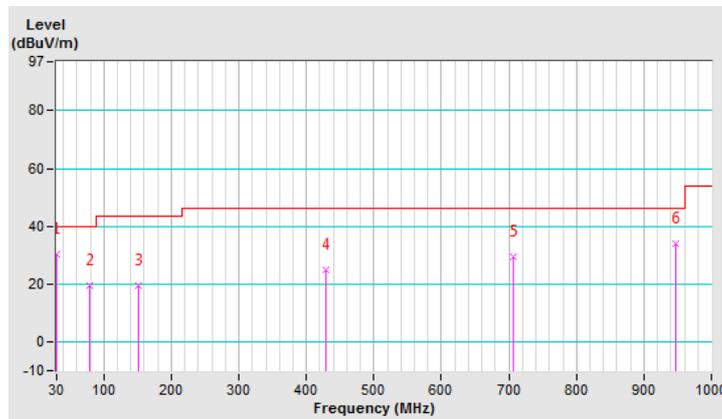
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	30.5 QP	40.0	-9.5	1.50 H	179	41.7	-11.2
2	79.47	19.5 QP	40.0	-20.5	1.00 H	21	33.4	-13.9
3	152.22	19.5 QP	43.5	-24.0	1.25 H	14	28.9	-9.4
4	428.67	24.8 QP	46.0	-21.2	1.25 H	167	30.4	-5.6
5	707.06	29.6 QP	46.0	-16.4	1.00 H	1	30.1	-0.5
6	947.62	34.2 QP	46.0	-11.8	1.50 H	61	30.1	4.1

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

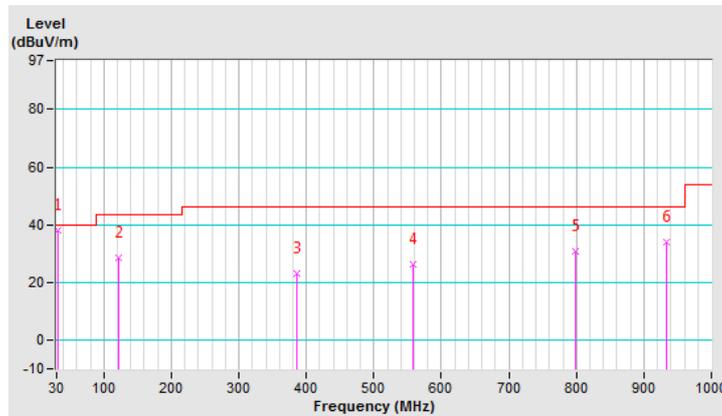


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	38.1 QP	40.0	-1.9	1.50 V	8	49.2	-11.1
2	122.15	28.5 QP	43.5	-15.0	1.25 V	333	40.0	-11.5
3	385.99	23.1 QP	46.0	-22.9	1.00 V	200	29.5	-6.4
4	557.68	26.2 QP	46.0	-19.8	1.00 V	273	29.8	-3.6
5	798.24	30.9 QP	46.0	-15.1	1.25 V	302	29.2	1.7
6	933.07	34.0 QP	46.0	-12.0	1.25 V	297	30.1	3.9

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



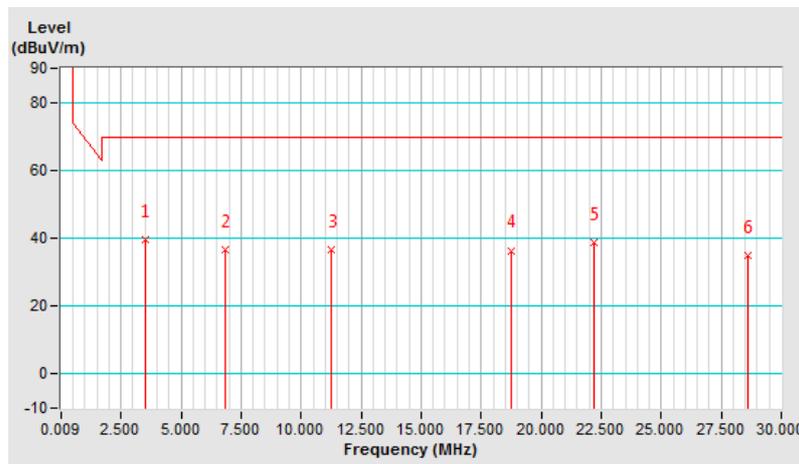
Mode A3

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.49	39.50 QP	69.50 QP	-30.00	1.00	353	19.70	19.80
2	6.85	36.80 QP	69.50 QP	-32.70	1.00	307	15.80	21.00
3	11.29	36.40 QP	69.50 QP	-33.10	1.00	7	14.60	21.80
4	18.78	36.40 QP	69.50 QP	-33.10	1.00	16	14.60	21.80
5	22.20	38.70 QP	69.50 QP	-30.80	1.00	211	16.80	21.90
6	28.62	34.90 QP	69.50 QP	-34.60	1.00	213	12.70	22.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.49	-0.50 QP	29.50 QP	-30.00
2	6.85	-3.20 QP	29.50 QP	-32.70
3	11.29	-3.60 QP	29.50 QP	-33.10
4	18.78	-3.60 QP	29.50 QP	-33.10
5	22.20	-1.30 QP	29.50 QP	-30.80
6	28.62	-5.10 QP	29.50 QP	-34.60

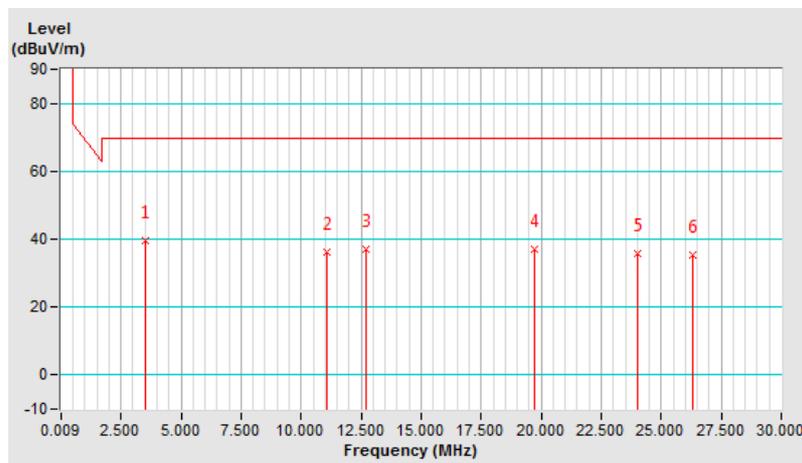
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.49	39.60 QP	69.50 QP	-29.90	1.00	359	19.80	19.80
2	11.05	36.10 QP	69.50 QP	-33.40	1.00	277	14.30	21.80
3	12.73	37.00 QP	69.50 QP	-32.50	1.00	89	15.20	21.80
4	19.74	37.10 QP	69.50 QP	-32.40	1.00	176	15.30	21.80
5	24.00	35.70 QP	69.50 QP	-33.80	1.00	68	13.70	22.00
6	26.34	35.20 QP	69.50 QP	-34.30	1.00	127	13.10	22.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.49	-0.40 QP	29.50 QP	-29.90
2	11.05	-3.90 QP	29.50 QP	-33.40
3	12.73	-3.00 QP	29.50 QP	-32.50
4	19.74	-2.90 QP	29.50 QP	-32.40
5	24.00	-4.30 QP	29.50 QP	-33.80
6	26.34	-4.80 QP	29.50 QP	-34.30

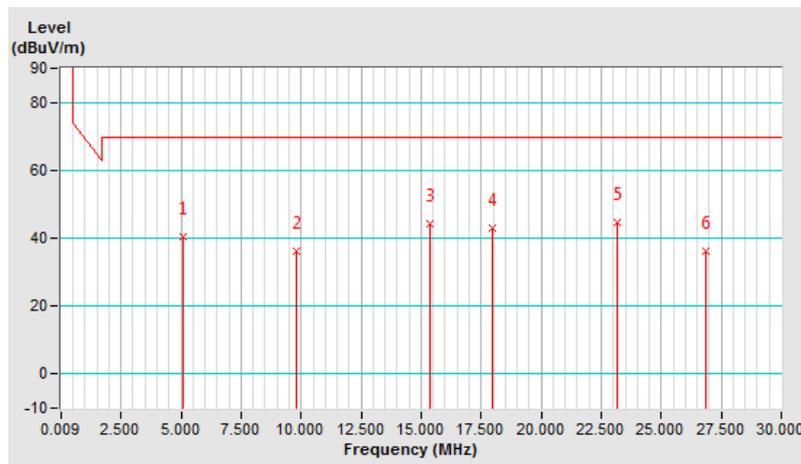
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5.11	40.40 QP	69.50 QP	-29.10	1.00	125	19.80	20.60
2	9.79	36.30 QP	69.50 QP	-33.20	1.00	87	14.60	21.70
3	15.36	44.20 QP	69.50 QP	-25.30	1.00	49	22.40	21.80
4	17.94	43.00 QP	69.50 QP	-26.50	1.00	176	21.20	21.80
5	23.16	44.60 QP	69.50 QP	-24.90	1.00	117	22.60	22.00
6	26.88	36.00 QP	69.50 QP	-33.50	1.00	216	13.90	22.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5.11	0.40 QP	29.50 QP	-29.10
2	9.79	-3.70 QP	29.50 QP	-33.20
3	15.36	4.20 QP	29.50 QP	-25.30
4	17.94	3.00 QP	29.50 QP	-26.50
5	23.16	4.60 QP	29.50 QP	-24.90
6	26.88	-4.00 QP	29.50 QP	-33.50

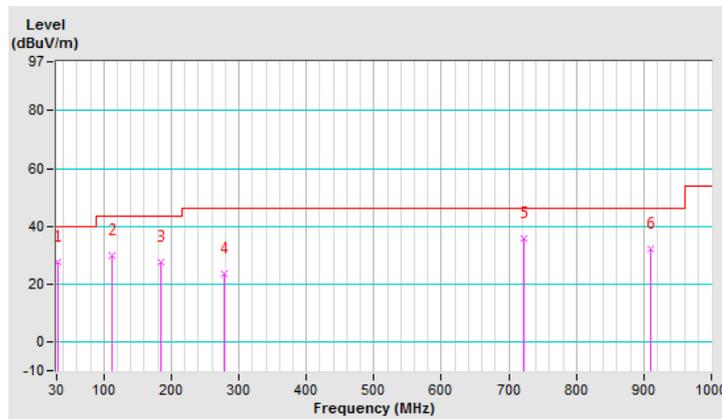
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	31.94	27.6 QP	40.0	-12.4	1.50 H	61	38.7	-11.1
2	111.48	29.9 QP	43.5	-13.6	1.25 H	239	42.2	-12.3
3	185.20	27.6 QP	43.5	-15.9	1.00 H	239	38.7	-11.1
4	278.32	23.4 QP	46.0	-22.6	1.00 H	306	31.9	-8.5
5	721.61	35.6 QP	46.0	-10.4	1.25 H	15	35.7	-0.1
6	909.79	32.1 QP	46.0	-13.9	1.50 H	216	28.7	3.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

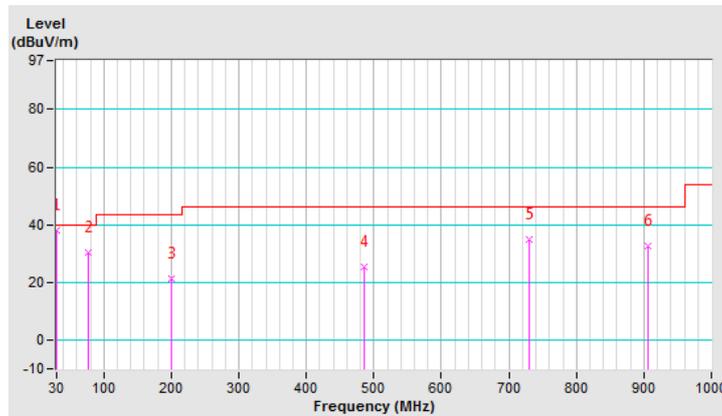


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.97	38.0 QP	40.0	-2.0	1.25 V	200	49.4	-11.4
2	76.56	30.4 QP	40.0	-9.6	1.25 V	207	43.7	-13.3
3	200.72	21.5 QP	43.5	-22.0	1.00 V	278	33.0	-11.5
4	484.93	25.4 QP	46.0	-20.6	1.00 V	18	30.2	-4.8
5	729.37	35.0 QP	46.0	-11.0	1.50 V	216	35.0	0.0
6	905.91	32.7 QP	46.0	-13.3	1.00 V	131	29.3	3.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Mode B1

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	22 deg. C, 68% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	51.00 QP	124.00 QP	-73.00	1.00	236	29.19	21.81

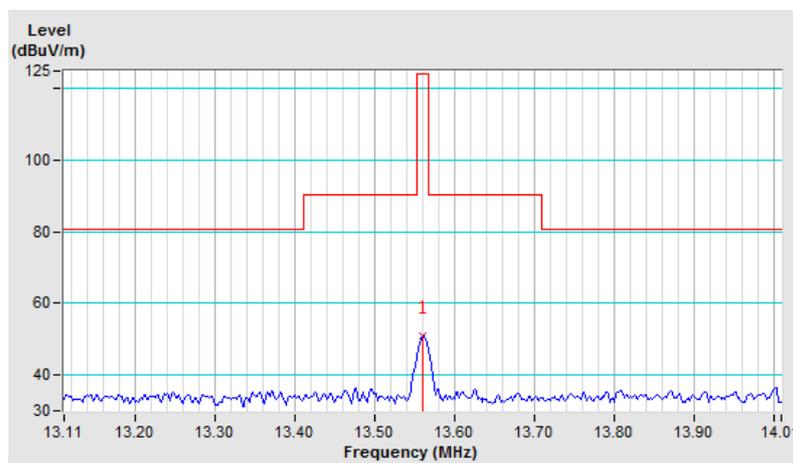
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	11.00 QP	84.00 QP	-73.00

Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	22 deg. C, 68% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	47.80 QP	124.00 QP	-76.20	1.00	301	25.99	21.81

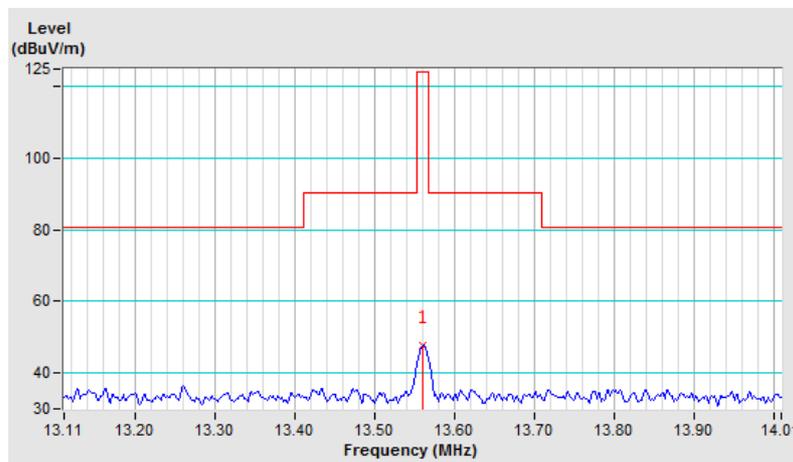
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	7.80 QP	84.00 QP	-76.20

Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	22 deg. C, 68% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	47.80 QP	124.00 QP	-76.20	1.00	210	25.99	21.81

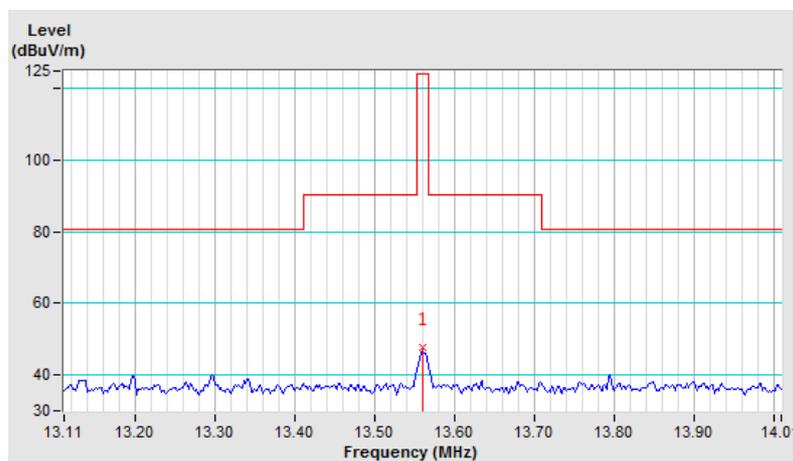
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	7.80 QP	84.00 QP	-76.20

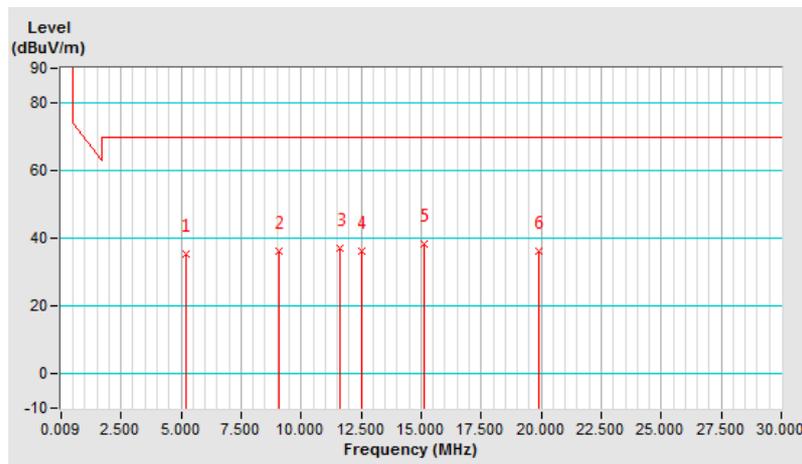
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5.23	35.14 QP	69.54 QP	-34.40	1.00	67	14.54	20.60
2	9.07	36.26 QP	69.54 QP	-33.28	1.00	310	14.70	21.56
3	11.65	36.92 QP	69.54 QP	-32.62	1.00	55	15.12	21.80
4	12.55	36.05 QP	69.54 QP	-33.49	1.00	25	14.24	21.81
5	15.12	38.17 QP	69.54 QP	-31.37	1.00	163	16.35	21.82
6	19.92	36.00 QP	69.54 QP	-33.54	1.00	73	14.15	21.85

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5.23	-4.86 QP	29.54 QP	-34.40
2	9.07	-3.74 QP	29.54 QP	-33.28
3	11.65	-3.08 QP	29.54 QP	-32.62
4	12.55	-3.95 QP	29.54 QP	-33.49
5	15.12	-1.83 QP	29.54 QP	-31.37
6	19.92	-4.0 QP	29.54 QP	-33.54

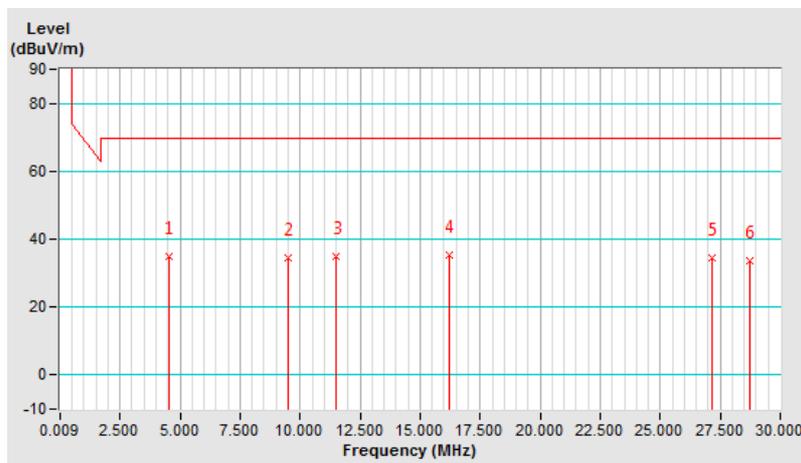
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4.57	35.03 QP	69.54 QP	-34.51	1.00	58	14.71	20.32
2	9.49	34.61 QP	69.54 QP	-34.93	1.00	192	12.95	21.66
3	11.53	35.10 QP	69.54 QP	-34.44	1.00	192	13.30	21.80
4	16.20	35.53 QP	69.54 QP	-34.01	1.00	172	13.70	21.83
5	27.18	34.59 QP	69.54 QP	-34.95	1.00	190	12.49	22.10
6	28.74	33.72 QP	69.54 QP	-35.82	1.00	170	11.56	22.16

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	4.57	-4.97 QP	29.54 QP	-34.51
2	9.49	-5.39 QP	29.54 QP	-34.93
3	11.53	-4.90 QP	29.54 QP	-34.44
4	16.20	-4.47 QP	29.54 QP	-34.01
5	27.18	-5.41 QP	29.54 QP	-34.95
6	28.74	-6.28 QP	29.54 QP	-35.82

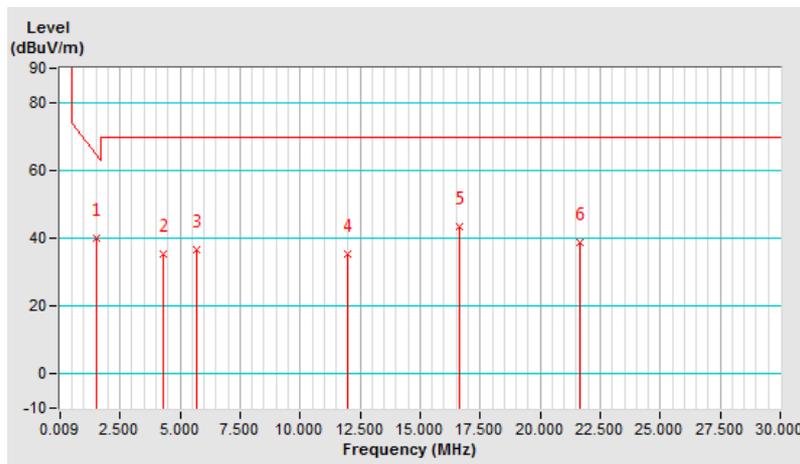
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1.51	39.92 QP	64.03 QP	-24.11	1.00	350	20.01	19.91
2	4.33	35.29 QP	69.54 QP	-34.25	1.00	147	15.10	20.19
3	5.71	36.82 QP	69.54 QP	-32.72	1.00	208	16.10	20.72
4	12.01	35.40 QP	69.54 QP	-34.14	1.00	210	13.60	21.80
5	16.62	43.39 QP	69.54 QP	-26.15	1.00	102	21.56	21.83
6	21.66	38.74 QP	69.54 QP	-30.80	1.00	103	16.83	21.91

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1.51	-0.08 QP	24.03 QP	-24.11
2	4.33	-4.71 QP	29.54 QP	-34.25
3	5.71	-3.18 QP	29.54 QP	-32.72
4	12.01	-4.60 QP	29.54 QP	-34.14
5	16.62	3.39 QP	29.54 QP	-26.15
6	21.66	-1.26 QP	29.54 QP	-30.80

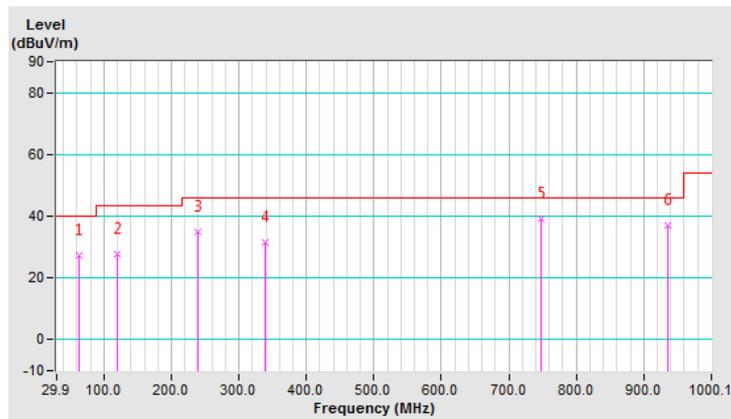
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	62.89	27.4 QP	40.0	-12.6	1.99 H	339	37.4	-10.0
2	119.16	27.6 QP	43.5	-15.9	1.99 H	70	38.9	-11.3
3	239.46	35.0 QP	46.0	-11.0	1.00 H	228	44.8	-9.8
4	338.42	31.5 QP	46.0	-14.5	1.00 H	234	39.0	-7.5
5	747.85	39.0 QP	46.0	-7.0	1.00 H	8	38.1	0.9
6	936.07	37.0 QP	46.0	-9.0	1.99 H	123	33.0	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

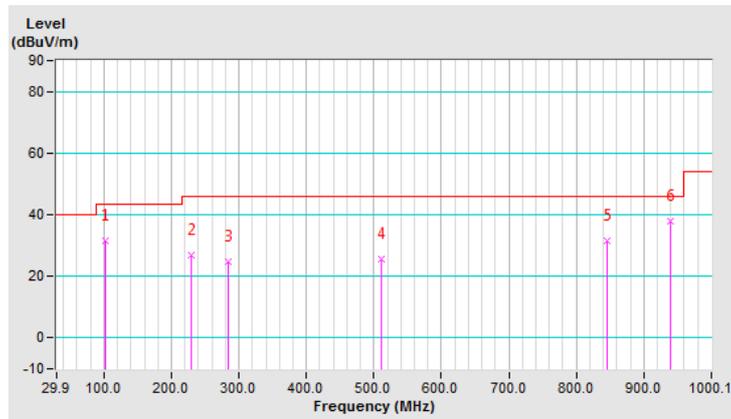


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	101.69	31.7 QP	43.5	-11.8	2.00 V	13	44.7	-13.0
2	229.76	26.9 QP	46.0	-19.1	1.00 V	7	37.7	-10.8
3	284.09	24.7 QP	46.0	-21.3	1.00 V	18	33.0	-8.3
4	511.12	25.4 QP	46.0	-20.6	1.00 V	241	30.1	-4.7
5	844.87	31.7 QP	46.0	-14.3	2.00 V	257	29.2	2.5
6	939.95	37.7 QP	46.0	-8.3	2.00 V	13	33.7	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



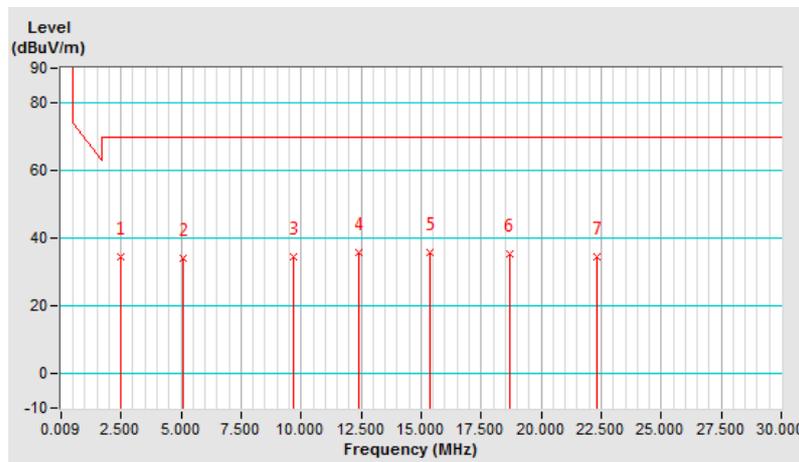
Mode B2

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.47	34.41 QP	69.54 QP	-35.13	1.00	147	14.76	19.65
2	5.11	34.04 QP	69.54 QP	-35.50	1.00	173	13.47	20.57
3	9.67	34.63 QP	69.54 QP	-34.91	1.00	141	12.92	21.71
4	12.43	35.71 QP	69.54 QP	-33.83	1.00	308	13.91	21.80
5	15.36	35.69 QP	69.54 QP	-33.85	1.00	327	13.87	21.82
6	18.66	35.19 QP	69.54 QP	-34.35	1.00	170	13.35	21.84
7	22.32	34.40 QP	69.54 QP	-35.14	1.00	277	12.47	21.93

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.47	-5.59 QP	29.54 QP	-35.13
2	5.11	-5.96 QP	29.54 QP	-35.50
3	9.67	-5.37 QP	29.54 QP	-34.91
4	12.43	-4.29 QP	29.54 QP	-33.83
5	15.36	-4.31 QP	29.54 QP	-33.85
6	18.66	-4.81 QP	29.54 QP	-34.35
	22.32	-5.60 QP	29.54 QP	-35.14

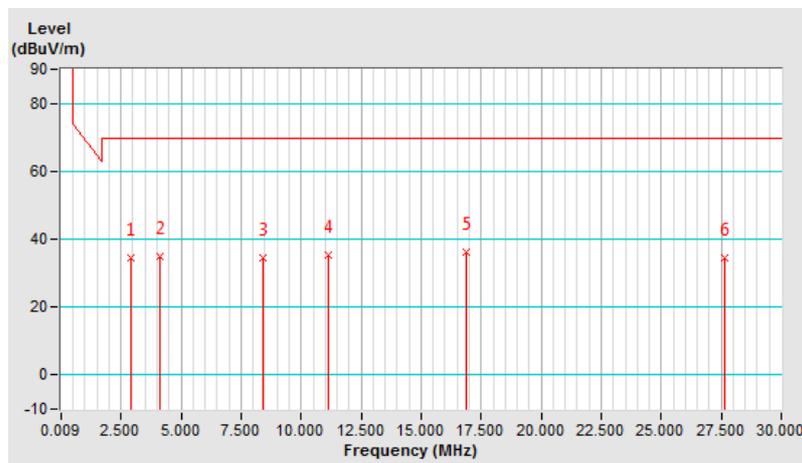
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.89	34.60 QP	69.54 QP	-34.94	1.00	234	15.06	19.54
2	4.15	34.91 QP	69.54 QP	-34.63	1.00	213	14.81	20.10
3	8.41	34.55 QP	69.54 QP	-34.99	1.00	308	13.16	21.39
4	11.11	35.19 QP	69.54 QP	-34.35	1.00	220	13.39	21.80
5	16.86	36.08 QP	69.54 QP	-33.46	1.00	141	14.25	21.83
6	27.66	34.60 QP	69.54 QP	-34.94	1.00	91	12.48	22.12

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.89	-5.40 QP	29.54 QP	-34.94
2	4.15	-5.09 QP	29.54 QP	-34.63
3	8.41	-5.45 QP	29.54 QP	-34.99
4	11.11	-4.81 QP	29.54 QP	-34.35
5	16.86	-3.92 QP	29.54 QP	-33.46
6	27.66	-5.40 QP	29.54 QP	-34.94

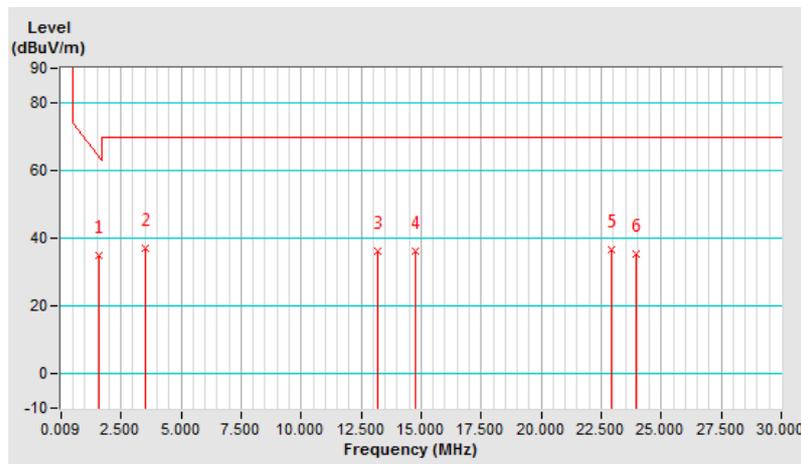
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1.57	34.81 QP	63.69 QP	-28.88	1.00	10	14.91	19.90
2	3.49	37.03 QP	69.54 QP	-32.51	1.00	12	17.27	19.76
3	13.21	36.00 QP	69.54 QP	-33.54	1.00	268	14.19	21.81
4	14.76	36.30 QP	69.54 QP	-33.24	1.00	317	14.48	21.82
5	22.92	36.61 QP	69.54 QP	-32.93	1.00	238	14.66	21.95
6	23.94	35.38 QP	69.54 QP	-34.16	1.00	119	13.39	21.99

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1.57	-5.19 QP	23.69 QP	-28.88
2	3.49	-2.97 QP	29.54 QP	-32.51
3	13.21	-4.00 QP	29.54 QP	-33.54
4	14.76	-3.70 QP	29.54 QP	-33.24
5	22.92	-3.39 QP	29.54 QP	-32.93
6	23.94	-4.62 QP	29.54 QP	-34.16

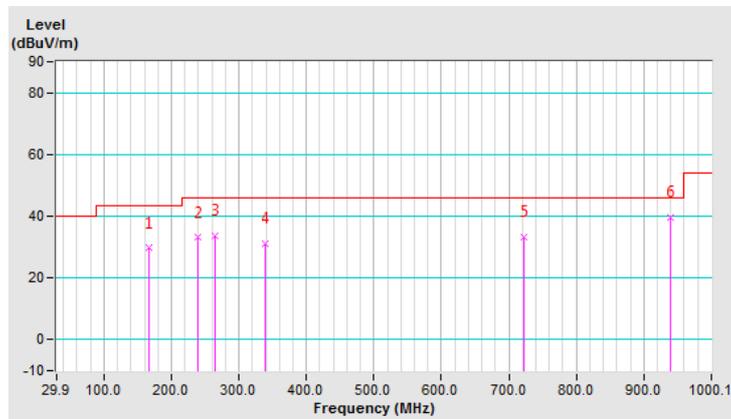
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	167.67	29.6 QP	43.5	-13.9	1.00 H	97	38.7	-9.1
2	239.46	33.0 QP	46.0	-13.0	1.00 H	80	42.8	-9.8
3	264.69	33.8 QP	46.0	-12.2	1.00 H	167	42.8	-9.0
4	338.42	30.9 QP	46.0	-15.1	1.00 H	222	38.4	-7.5
5	722.62	33.2 QP	46.0	-12.8	1.00 H	100	33.2	0.0
6	939.95	39.6 QP	46.0	-6.4	1.00 H	200	35.6	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

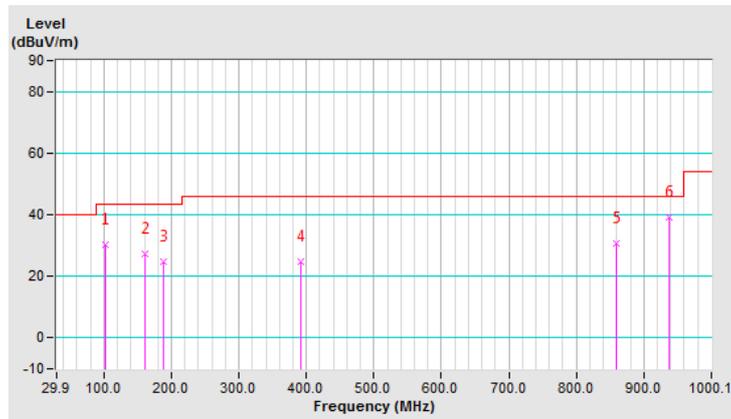


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	101.69	30.3 QP	43.5	-13.2	1.00 V	76	43.3	-13.0
2	161.85	27.5 QP	43.5	-16.0	1.00 V	13	36.3	-8.8
3	189.01	24.9 QP	43.5	-18.6	1.00 V	13	36.0	-11.1
4	390.81	24.8 QP	46.0	-21.2	1.00 V	74	31.5	-6.7
5	858.45	30.7 QP	46.0	-15.3	1.00 V	13	28.1	2.6
6	938.01	39.2 QP	46.0	-6.8	1.00 V	13	35.2	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



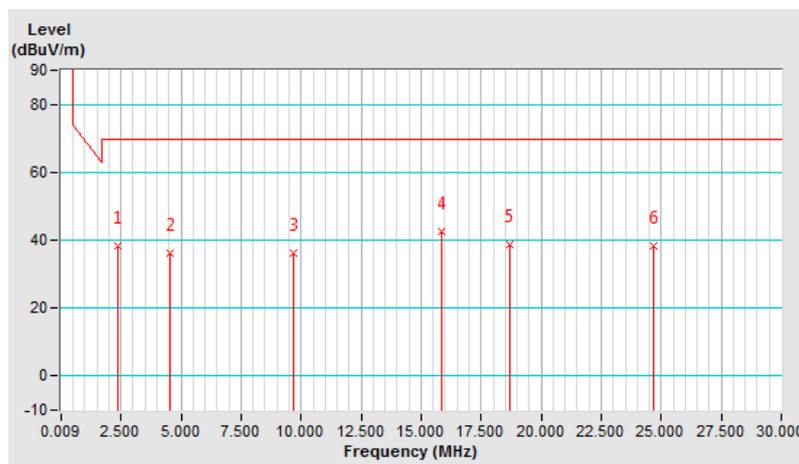
Mode B3

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.35	38.38 QP	69.54 QP	-31.16	1.00	114	18.69	19.69
2	4.57	36.18 QP	69.54 QP	-33.36	1.00	14	15.86	20.32
3	9.67	36.28 QP	69.54 QP	-33.26	1.00	41	14.57	21.71
4	15.84	42.61 QP	69.54 QP	-26.93	1.00	177	20.78	21.83
5	18.66	38.65 QP	69.54 QP	-30.89	1.00	334	16.81	21.84
6	24.66	38.19 QP	69.54 QP	-31.35	1.00	255	16.18	22.01

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.35	-1.62 QP	29.54 QP	-31.16
2	4.57	-3.82 QP	29.54 QP	-33.36
3	9.67	-3.72 QP	29.54 QP	-33.26
4	15.84	2.61 QP	29.54 QP	-26.93
5	18.66	-1.35 QP	29.54 QP	-30.89
6	24.66	-1.81 QP	29.54 QP	-31.35

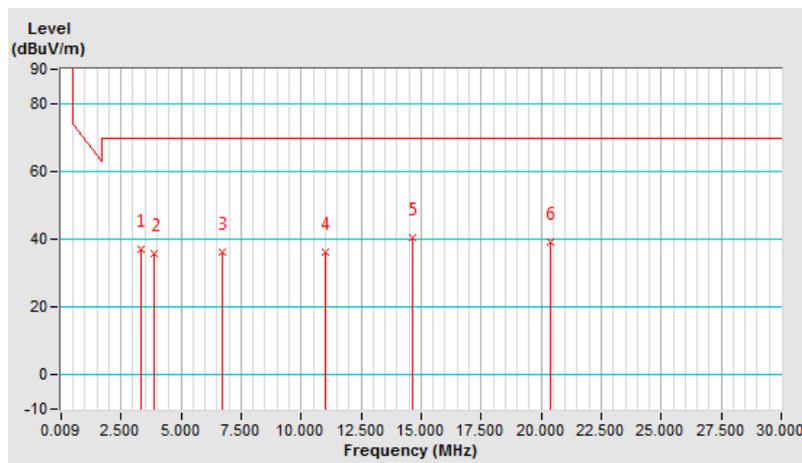
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.31	36.96 QP	69.54 QP	-32.58	1.00	240	17.29	19.67
2	3.91	35.88 QP	69.54 QP	-33.66	1.00	240	15.90	19.98
3	6.73	36.24 QP	69.54 QP	-33.30	1.00	159	15.27	20.97
4	10.99	36.09 QP	69.54 QP	-33.45	1.00	138	14.29	21.80
5	14.64	40.59 QP	69.54 QP	-28.95	1.00	177	18.77	21.82
6	20.40	39.12 QP	69.54 QP	-30.42	1.00	107	17.26	21.86

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.31	-3.04 QP	29.54 QP	-32.58
2	3.91	-4.12 QP	29.54 QP	-33.66
3	6.73	-3.76 QP	29.54 QP	-33.30
4	10.99	-3.91 QP	29.54 QP	-33.45
5	14.64	0.59 QP	29.54 QP	-28.95
6	20.40	-0.88 QP	29.54 QP	-30.42

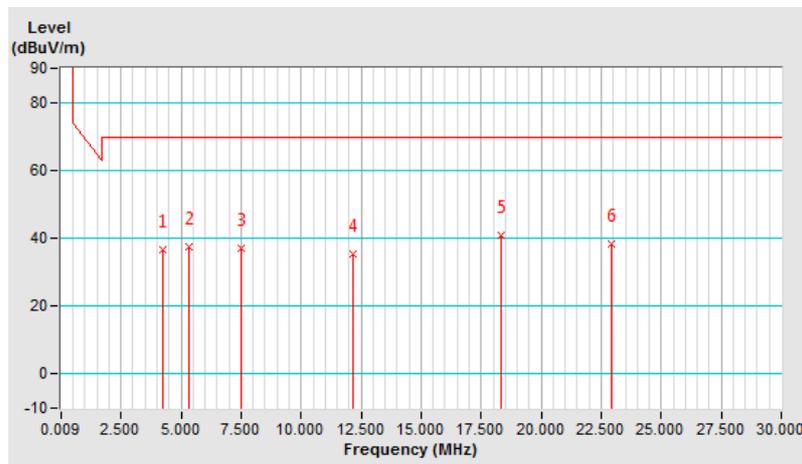
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4.27	36.71 QP	69.54 QP	-32.83	1.00	328	16.55	20.16
2	5.35	37.54 QP	69.54 QP	-32.00	1.00	52	16.91	20.63
3	7.51	37.19 QP	69.54 QP	-32.35	1.00	61	16.02	21.17
4	12.19	35.49 QP	69.54 QP	-34.05	1.00	30	13.69	21.80
5	18.30	41.01 QP	69.54 QP	-28.53	1.00	39	19.17	21.84
6	22.92	38.26 QP	69.54 QP	-31.28	1.00	264	16.31	21.95

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	4.27	-3.29 QP	29.54 QP	-32.83
2	5.35	-2.46 QP	29.54 QP	-32.00
3	7.51	-2.81 QP	29.54 QP	-32.35
4	12.19	-4.51 QP	29.54 QP	-34.05
5	18.30	1.01 QP	29.54 QP	-28.53
6	22.92	-1.74 QP	29.54 QP	-31.28

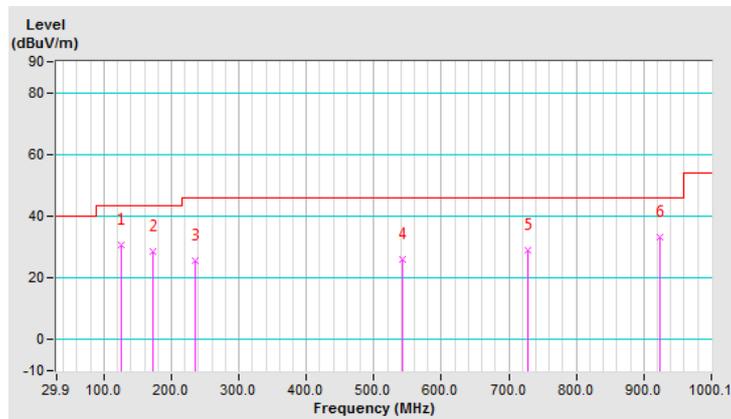
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	126.03	30.8 QP	43.5	-12.7	1.00 H	239	41.5	-10.7
2	173.56	28.5 QP	43.5	-15.0	1.00 H	32	38.1	-9.6
3	235.64	25.8 QP	46.0	-20.2	1.00 H	57	35.9	-10.1
4	543.13	26.0 QP	46.0	-20.0	1.00 H	107	30.3	-4.3
5	728.40	28.9 QP	46.0	-17.1	1.00 H	213	28.6	0.3
6	924.34	33.2 QP	46.0	-12.8	1.00 H	34	29.2	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

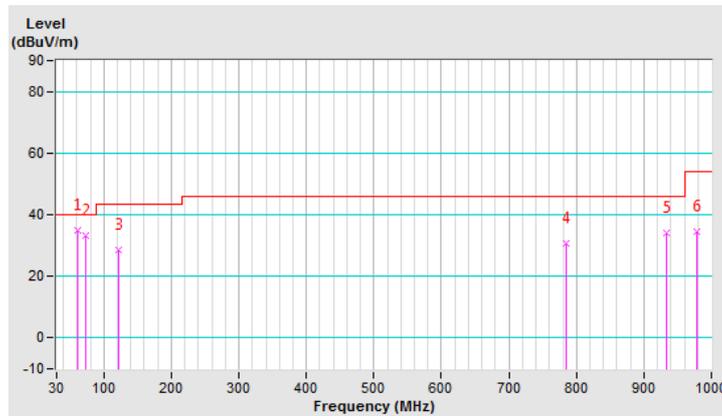


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	61.04	34.8 QP	40.0	-5.2	1.50 V	126	44.9	-10.1
2	72.68	33.4 QP	40.0	-6.6	1.00 V	142	45.1	-11.7
3	122.15	28.5 QP	43.5	-15.0	1.00 V	333	39.6	-11.1
4	784.66	30.8 QP	46.0	-15.2	1.00 V	134	29.2	1.6
5	933.07	34.0 QP	46.0	-12.0	1.50 V	297	30.0	4.0
6	978.66	34.4 QP	54.0	-19.6	1.00 V	115	30.0	4.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Mode C1

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	51.20 QP	124.00 QP	-72.80	1.00	77	29.39	21.81

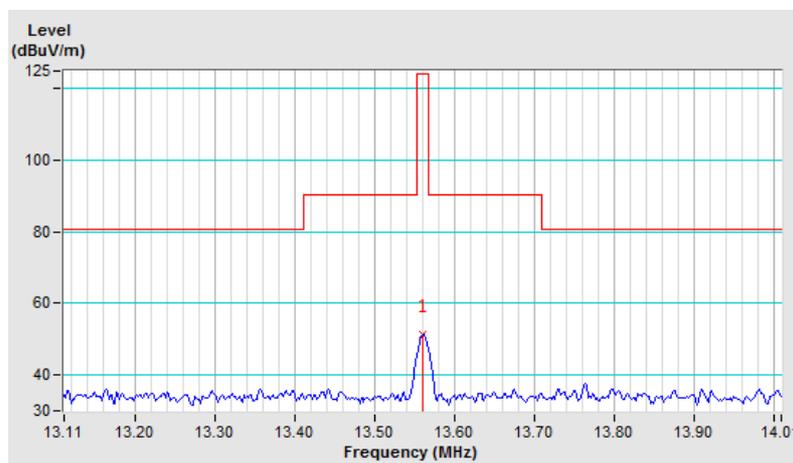
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	11.20 QP	84.00 QP	-72.80

Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	47.70 QP	124.00 QP	-76.30	1.00	12	25.89	21.81

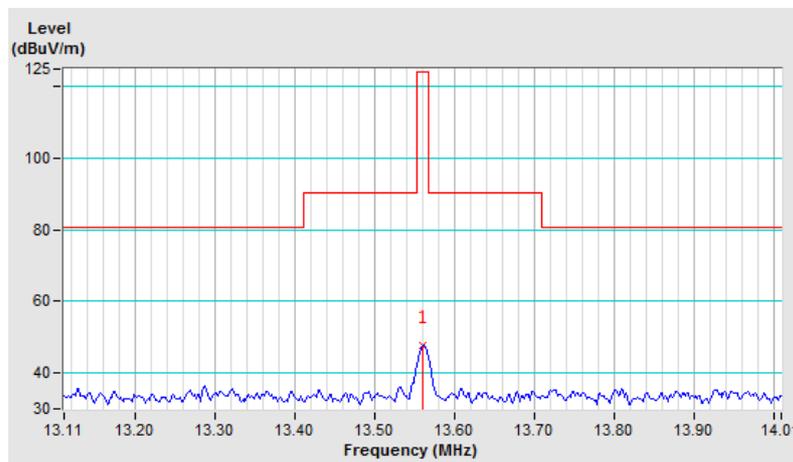
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	7.70 QP	84.00 QP	-76.30

Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	46.00 QP	124.00 QP	-78.00	1.00	288	24.19	21.81

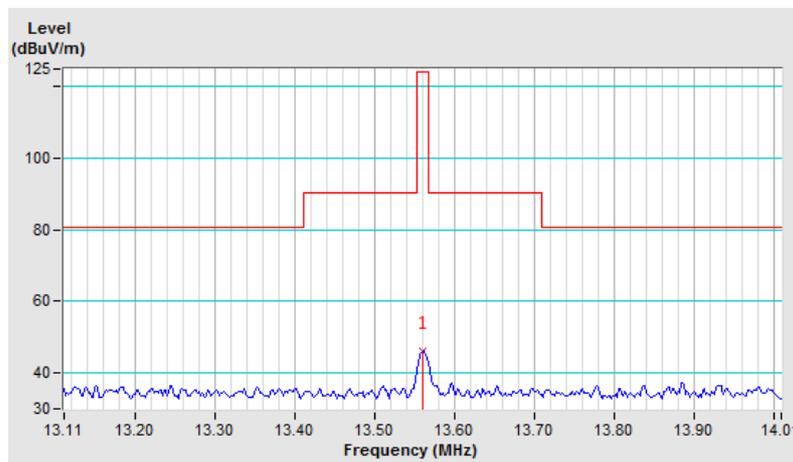
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	6.00 QP	84.00 QP	-78.00

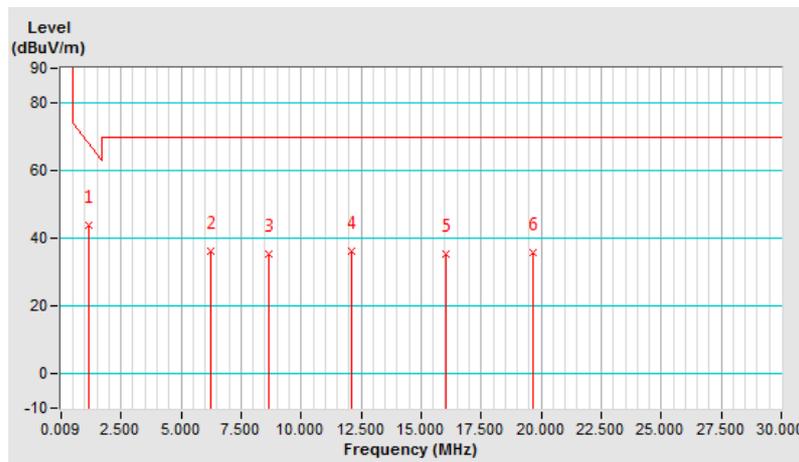
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1.15	43.75 QP	66.40 QP	-22.65	1.00	251	23.74	20.01
2	6.25	36.16 QP	69.54 QP	-33.38	1.00	7	15.31	20.85
3	8.65	35.19 QP	69.54 QP	-34.35	1.00	7	13.74	21.45
4	12.13	36.29 QP	69.54 QP	-33.25	1.00	165	14.49	21.80
5	16.02	35.49 QP	69.54 QP	-34.05	1.00	7	13.66	21.83
6	19.68	35.81 QP	69.54 QP	-33.73	1.00	238	13.96	21.85

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1.15	3.75 QP	26.40 QP	-22.65
2	6.25	-3.84 QP	29.54 QP	-33.38
3	8.65	-4.81 QP	29.54 QP	-34.35
4	12.13	-3.71 QP	29.54 QP	-33.25
5	16.02	-4.51 QP	29.54 QP	-34.05
6	19.68	-4.19 QP	29.54 QP	-33.73

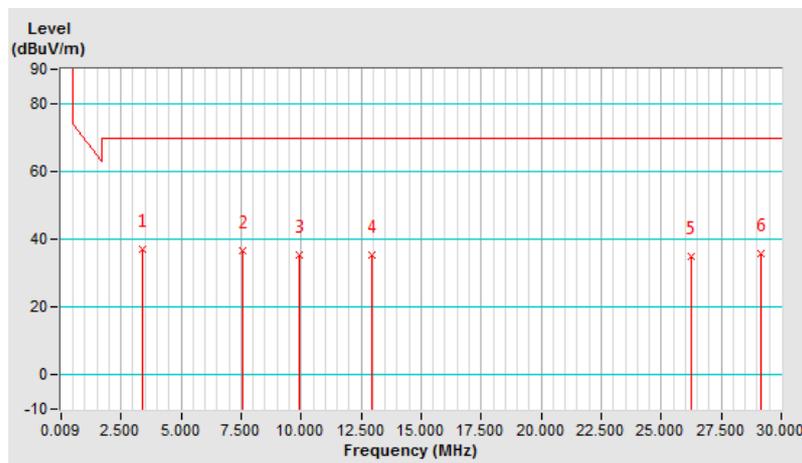
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.37	37.14 QP	69.54 QP	-32.40	1.00	253	17.44	19.70
2	7.57	36.82 QP	69.54 QP	-32.72	1.00	267	15.64	21.18
3	9.91	35.30 QP	69.54 QP	-34.24	1.00	335	13.53	21.77
4	12.97	35.43 QP	69.54 QP	-34.11	1.00	7	13.62	21.81
5	26.22	34.86 QP	69.54 QP	-34.68	1.00	141	12.79	22.07
6	29.16	35.64 QP	69.54 QP	-33.90	1.00	7	13.47	22.17

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.37	-2.86 QP	29.54 QP	-32.40
2	7.57	-3.18 QP	29.54 QP	-32.72
3	9.91	-4.70 QP	29.54 QP	-34.24
4	12.97	-4.57 QP	29.54 QP	-34.11
5	26.22	-5.14 QP	29.54 QP	-34.68
6	29.16	-4.36 QP	29.54 QP	-33.90

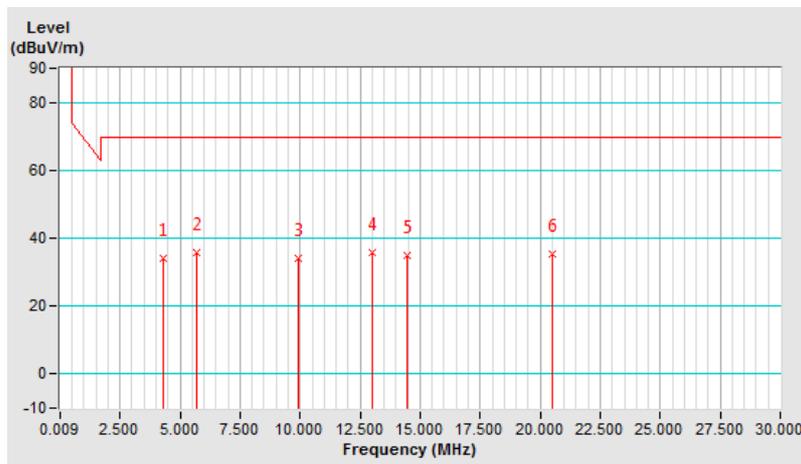
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4.33	34.23 QP	69.54 QP	-35.31	1.00	138	14.04	20.19
2	5.71	35.97 QP	69.54 QP	-33.57	1.00	71	15.25	20.72
3	9.91	34.03 QP	69.54 QP	-35.51	1.00	249	12.26	21.77
4	13.03	35.61 QP	69.54 QP	-33.93	1.00	192	13.80	21.81
5	14.46	34.84 QP	69.54 QP	-34.70	1.00	291	13.02	21.82
6	20.52	35.42 QP	69.54 QP	-34.12	1.00	9	13.55	21.87

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	4.33	-5.77 QP	29.54 QP	-35.31
2	5.71	-4.03 QP	29.54 QP	-33.57
3	9.91	-5.97 QP	29.54 QP	-35.51
4	13.03	-4.39 QP	29.54 QP	-33.93
5	14.46	-5.16 QP	29.54 QP	-34.70
6	20.52	-4.58 QP	29.54 QP	-34.12

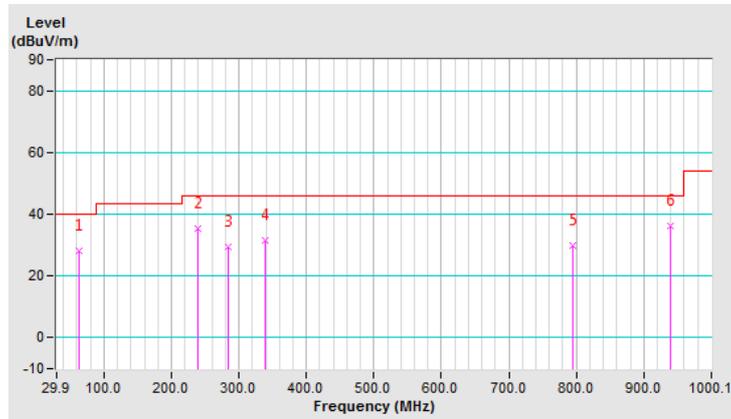
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	62.89	28.1 QP	40.0	-11.9	1.99 H	339	38.1	-10.0
2	239.46	35.3 QP	46.0	-10.7	1.00 H	228	45.1	-9.8
3	284.09	29.6 QP	46.0	-16.4	1.00 H	234	37.9	-8.3
4	338.42	31.5 QP	46.0	-14.5	1.00 H	234	39.0	-7.5
5	794.42	29.9 QP	46.0	-16.1	1.00 H	143	28.3	1.6
6	939.95	36.1 QP	46.0	-9.9	1.99 H	143	32.1	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

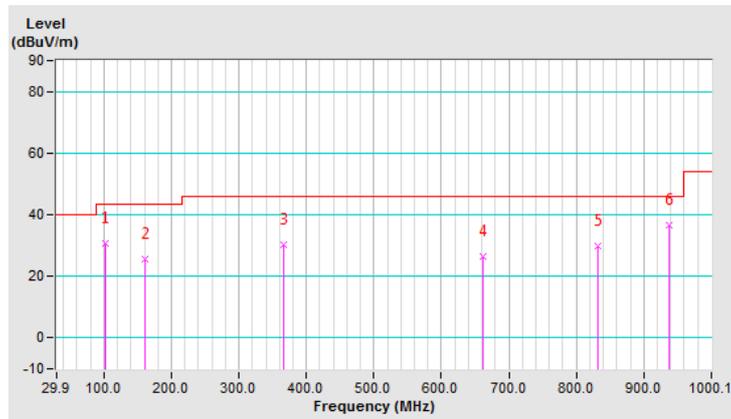


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	101.69	30.7 QP	43.5	-12.8	2.00 V	13	43.7	-13.0
2	161.85	25.6 QP	43.5	-17.9	1.00 V	7	34.4	-8.8
3	365.59	30.1 QP	46.0	-15.9	1.00 V	7	37.2	-7.1
4	662.47	26.6 QP	46.0	-19.4	1.00 V	241	28.0	-1.4
5	831.29	30.0 QP	46.0	-16.0	2.00 V	180	27.7	2.3
6	938.01	36.8 QP	46.0	-9.2	1.00 V	322	32.8	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



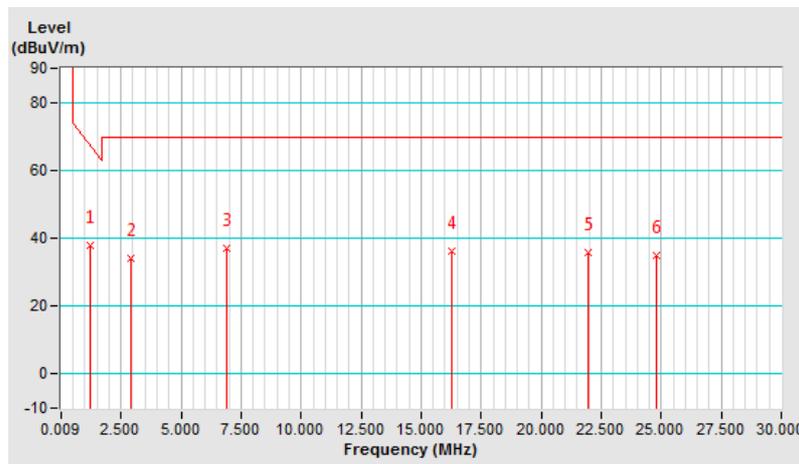
Mode C2

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1.21	37.84 QP	65.96 QP	-28.12	1.00	312	17.85	19.99
2	2.89	34.08 QP	69.54 QP	-35.46	1.00	84	14.54	19.54
3	6.91	36.96 QP	69.54 QP	-32.58	1.00	61	15.94	21.02
4	16.26	36.06 QP	69.54 QP	-33.48	1.00	246	14.23	21.83
5	21.96	35.57 QP	69.54 QP	-33.97	1.00	2	13.65	21.92
6	24.78	34.97 QP	69.54 QP	-34.57	1.00	57	12.95	22.02

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1.21	-2.16 QP	25.96 QP	-28.12
2	2.89	-5.92 QP	29.54 QP	-35.46
3	6.91	-3.04 QP	29.54 QP	-32.58
4	16.26	-3.94 QP	29.54 QP	-33.48
5	21.96	-4.43 QP	29.54 QP	-33.97
6	24.78	-5.03 QP	29.54 QP	-34.57

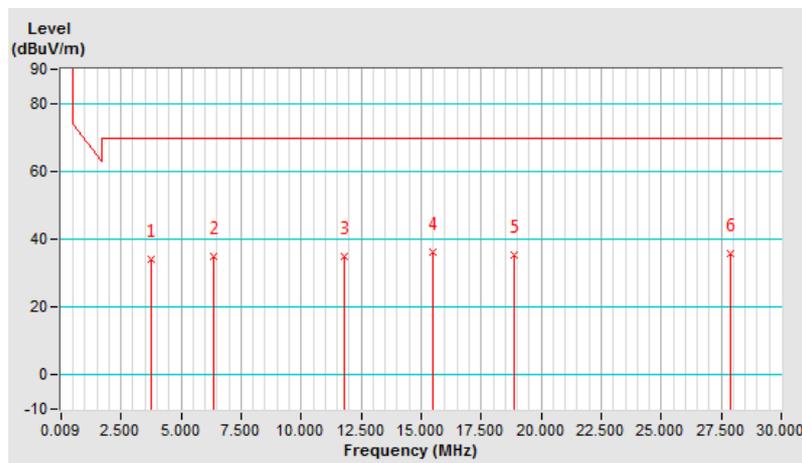
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.73	34.23 QP	69.54 QP	-35.31	1.00	271	14.35	19.88
2	6.37	34.77 QP	69.54 QP	-34.77	1.00	318	13.89	20.88
3	11.83	34.77 QP	69.54 QP	-34.77	1.00	59	12.97	21.80
4	15.48	36.04 QP	69.54 QP	-33.50	1.00	217	14.22	21.82
5	18.90	35.44 QP	69.54 QP	-34.10	1.00	235	13.60	21.84
6	27.90	35.92 QP	69.54 QP	-33.62	1.00	165	13.79	22.13

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.73	-5.77 QP	29.54 QP	-35.31
2	6.37	-5.23 QP	29.54 QP	-34.77
3	11.83	-5.23 QP	29.54 QP	-34.77
4	15.48	-3.96 QP	29.54 QP	-33.50
5	18.90	-4.56 QP	29.54 QP	-34.10
6	27.90	-4.08 QP	29.54 QP	-33.62

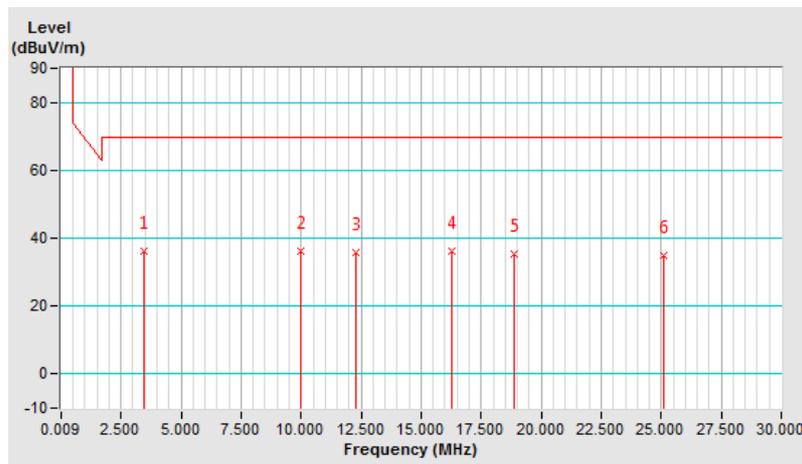
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.43	36.30 QP	69.54 QP	-33.24	1.00	192	16.57	19.73
2	9.97	35.99 QP	69.54 QP	-33.55	1.00	158	14.21	21.78
3	12.31	35.74 QP	69.54 QP	-33.80	1.00	39	13.94	21.80
4	16.26	36.06 QP	69.54 QP	-33.48	1.00	246	14.23	21.83
5	18.90	35.44 QP	69.54 QP	-34.10	1.00	235	13.60	21.84
6	25.08	35.09 QP	69.54 QP	-34.45	1.00	97	13.06	22.03

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.43	-3.70 QP	29.54 QP	-33.24
2	9.97	-4.01 QP	29.54 QP	-33.55
3	12.31	-4.26 QP	29.54 QP	-33.80
4	16.26	-3.94 QP	29.54 QP	-33.48
5	18.90	-4.56 QP	29.54 QP	-34.10
6	25.08	-4.91 QP	29.54 QP	-34.45

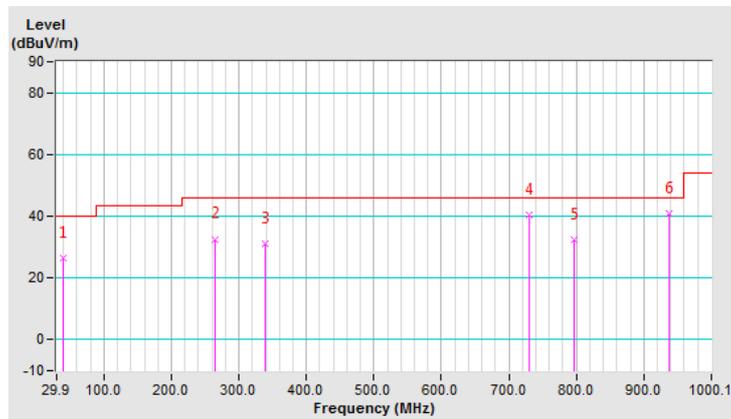
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	39.60	26.4 QP	40.0	-13.6	1.00 H	149	35.8	-9.4
2	264.69	32.6 QP	46.0	-13.4	1.00 H	1	41.6	-9.0
3	338.42	30.9 QP	46.0	-15.1	1.00 H	219	38.4	-7.5
4	730.38	40.5 QP	46.0	-5.5	1.00 H	318	40.1	0.4
5	796.36	32.4 QP	46.0	-13.6	1.00 H	301	30.7	1.7
6	938.01	40.8 QP	46.0	-5.2	1.00 H	101	36.8	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

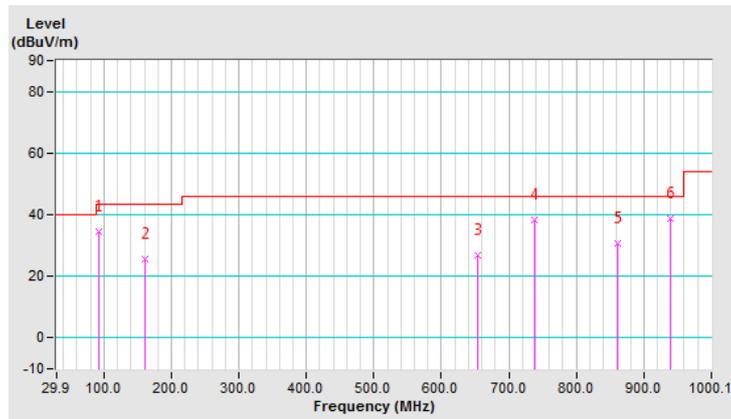


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	91.99	34.6 QP	43.5	-8.9	1.00 V	299	48.7	-14.1
2	161.85	25.5 QP	43.5	-18.0	1.00 V	54	34.3	-8.8
3	654.71	27.0 QP	46.0	-19.0	1.00 V	20	28.5	-1.5
4	738.15	38.2 QP	46.0	-7.8	1.00 V	117	37.5	0.7
5	860.39	30.7 QP	46.0	-15.3	1.00 V	162	28.0	2.7
6	939.95	38.6 QP	46.0	-7.4	1.00 V	288	34.6	4.0

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



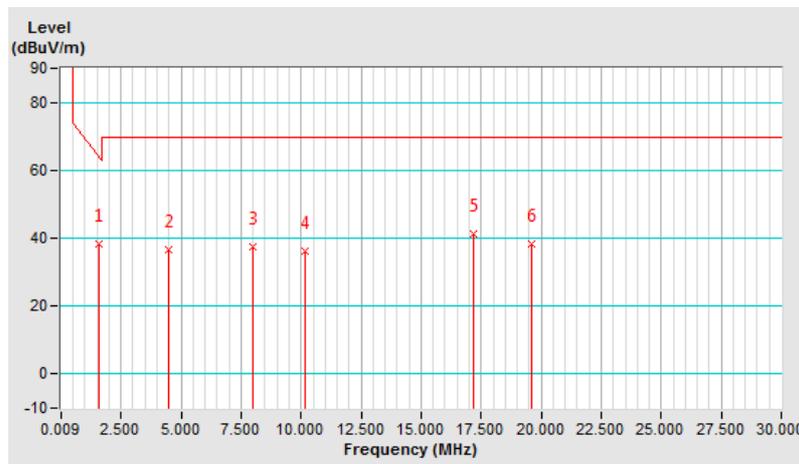
Mode C3

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1.57	38.21 QP	63.69 QP	-25.48	1.00	7	18.31	19.90
2	4.51	36.59 QP	69.54 QP	-32.95	1.00	323	16.30	20.29
3	7.99	37.55 QP	69.54 QP	-31.99	1.00	171	16.26	21.29
4	10.15	36.01 QP	69.54 QP	-33.53	1.00	121	14.22	21.79
5	17.16	41.44 QP	69.54 QP	-28.10	1.00	260	19.61	21.83
6	19.62	38.41 QP	69.54 QP	-31.13	1.00	250	16.56	21.85

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1.57	-1.79 QP	23.69 QP	-25.48
2	4.51	-3.41 QP	29.54 QP	-32.95
3	7.99	-2.45 QP	29.54 QP	-31.99
4	10.15	-3.99 QP	29.54 QP	-33.53
5	17.16	1.44 QP	29.54 QP	-28.10
6	19.62	-1.59 QP	29.54 QP	-31.13

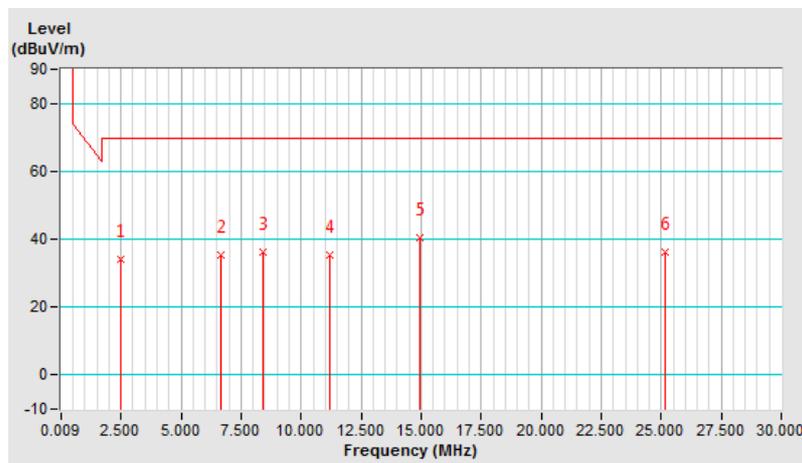
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.47	34.19 QP	69.54 QP	-35.35	1.00	68	14.54	19.65
2	6.67	35.49 QP	69.54 QP	-34.05	1.00	228	14.53	20.96
3	8.41	36.07 QP	69.54 QP	-33.47	1.00	82	14.68	21.39
4	11.17	35.53 QP	69.54 QP	-34.01	1.00	91	13.73	21.80
5	14.94	40.23 QP	69.54 QP	-29.31	1.00	181	18.41	21.82
6	25.14	36.14 QP	69.54 QP	-33.40	1.00	64	14.11	22.03

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.47	-5.81 QP	29.54 QP	-35.35
2	6.67	-4.51 QP	29.54 QP	-34.05
3	8.41	-3.93 QP	29.54 QP	-33.47
4	11.17	-4.47 QP	29.54 QP	-34.01
5	14.94	0.23 QP	29.54 QP	-29.31
6	25.14	-3.86 QP	29.54 QP	-33.40

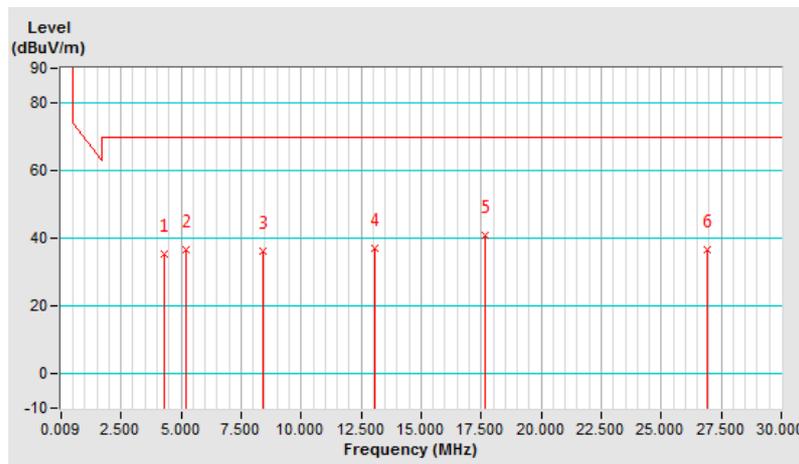
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	4.33	35.29 QP	69.54 QP	-34.25	1.00	147	15.10	20.19
2	5.23	36.78 QP	69.54 QP	-32.76	1.00	30	16.18	20.60
3	8.41	36.07 QP	69.54 QP	-33.47	1.00	82	14.68	21.39
4	13.09	36.94 QP	69.54 QP	-32.60	1.00	181	15.13	21.81
5	17.64	40.92 QP	69.54 QP	-28.62	1.00	7	19.08	21.84
6	26.94	36.61 QP	69.54 QP	-32.93	1.00	143	14.52	22.09

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	4.33	-4.71 QP	29.54 QP	-34.25
2	5.23	-3.22 QP	29.54 QP	-32.76
3	8.41	-3.93 QP	29.54 QP	-33.47
4	13.09	-3.06 QP	29.54 QP	-32.60
5	17.64	0.92 QP	29.54 QP	-28.62
6	26.94	-3.39 QP	29.54 QP	-32.93

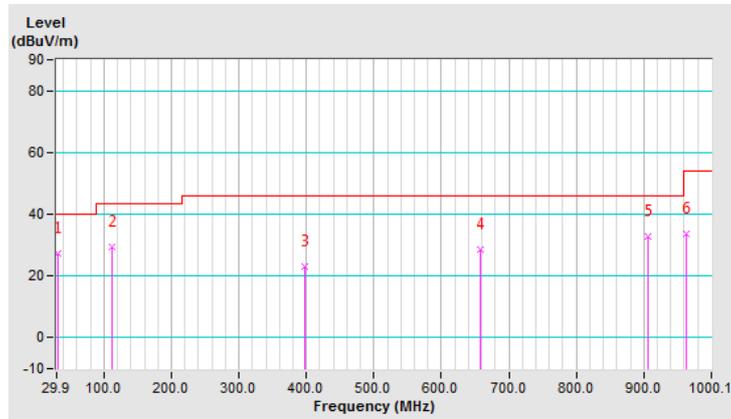
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.97	27.3 QP	40.0	-12.7	1.00 H	331	38.5	-11.2
2	111.48	29.5 QP	43.5	-14.0	1.00 H	243	41.4	-11.9
3	397.63	22.9 QP	46.0	-23.1	1.00 H	172	29.5	-6.6
4	657.59	28.7 QP	46.0	-17.3	1.00 H	6	30.1	-1.4
5	905.91	32.9 QP	46.0	-13.1	1.00 H	359	29.2	3.7
6	963.14	33.5 QP	54.0	-20.5	1.00 H	309	29.0	4.5

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

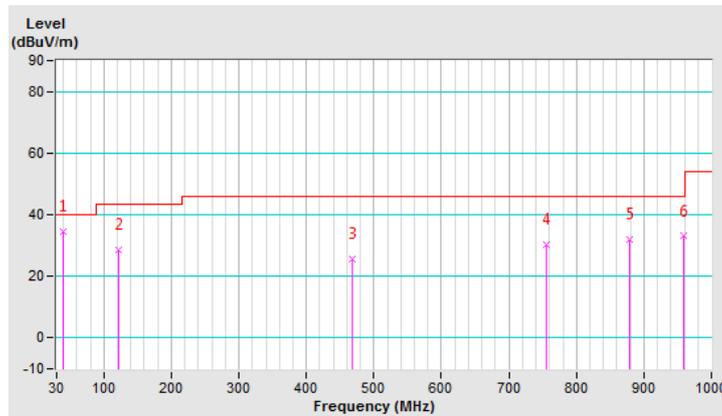


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	40.67	34.7 QP	40.0	-5.3	1.50 V	129	43.9	-9.2
2	122.15	28.5 QP	43.5	-15.0	1.00 V	333	39.6	-11.1
3	467.47	25.7 QP	46.0	-20.3	1.00 V	314	31.1	-5.4
4	754.59	30.2 QP	46.0	-15.8	1.50 V	102	29.2	1.0
5	877.78	31.9 QP	46.0	-14.1	2.00 V	234	29.0	2.9
6	958.29	33.0 QP	46.0	-13.0	1.00 V	265	28.7	4.3

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Mode D1

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	50.90 QP	124.00 QP	-73.10	1.00	155	29.10	21.80

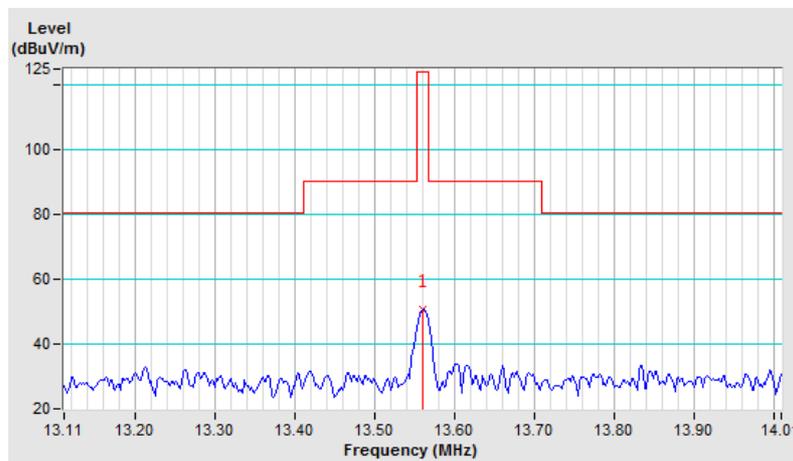
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\mu\text{V/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	10.90 QP	84.00 QP	-73.10

Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	46.90 QP	124.00 QP	-77.10	1.00 V	244	25.10	21.80

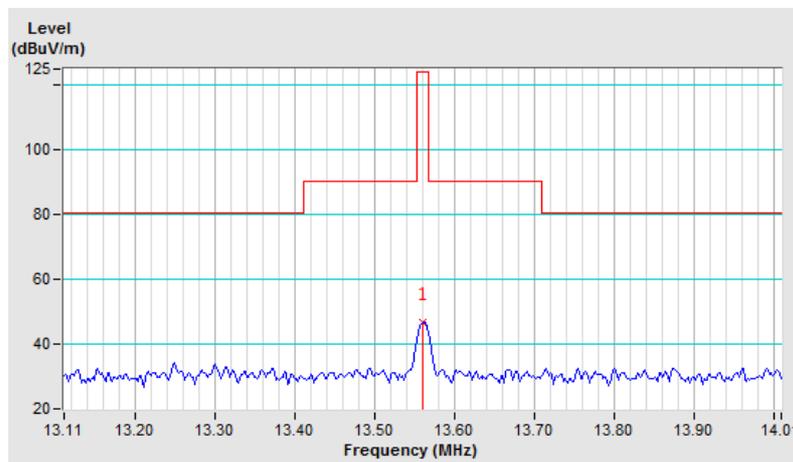
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	6.90 QP	84.00 QP	-77.10

Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	13.553 ~ 13.567MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 70% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	*13.56	47.40 QP	124.00 QP	-76.60	1.00	342	25.60	21.80

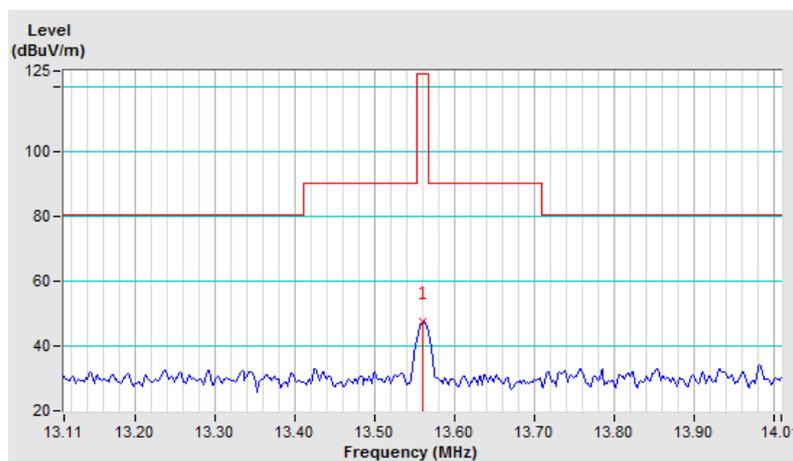
Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value
5. Above limits have been translated by the formula

The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

$$\begin{aligned}
 13.56\text{MHz} &= 15848\text{uV/m} && 30\text{m} \\
 &= 84\text{dBuV/m} && 30\text{m} \\
 &= 84+20\log(30/3)^2 && 3\text{m} \\
 &= 124\text{dBuV/m}
 \end{aligned}$$



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	*13.56	7.40 QP	84.00 QP	-76.60

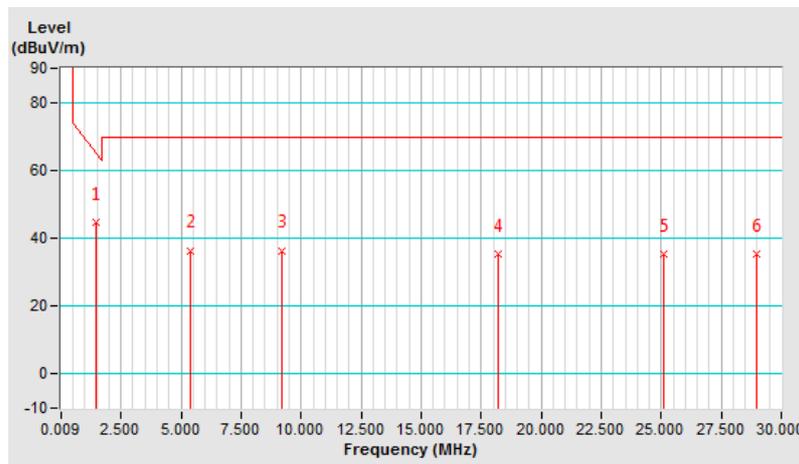
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	1.45	44.50 QP	64.40 QP	-19.90	1.00	260	24.60	19.90
2	5.41	36.40 QP	69.50 QP	-33.10	1.00	7	15.80	20.60
3	9.19	36.40 QP	69.50 QP	-33.10	1.00	237	14.80	21.60
4	18.18	35.40 QP	69.50 QP	-34.10	1.00	7	13.60	21.80
5	25.08	35.50 QP	69.50 QP	-34.00	1.00	7	13.50	22.00
6	28.98	35.20 QP	69.50 QP	-34.30	1.00	7	13.00	22.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	1.45	4.50 QP	24.40 QP	-19.90
2	5.41	-3.60 QP	29.50 QP	-33.10
3	9.19	-3.60 QP	29.50 QP	-33.10
4	18.18	-4.60 QP	29.50 QP	-34.10
5	25.08	-4.50 QP	29.50 QP	-34.00
6	28.98	-4.80 QP	29.50 QP	-34.30

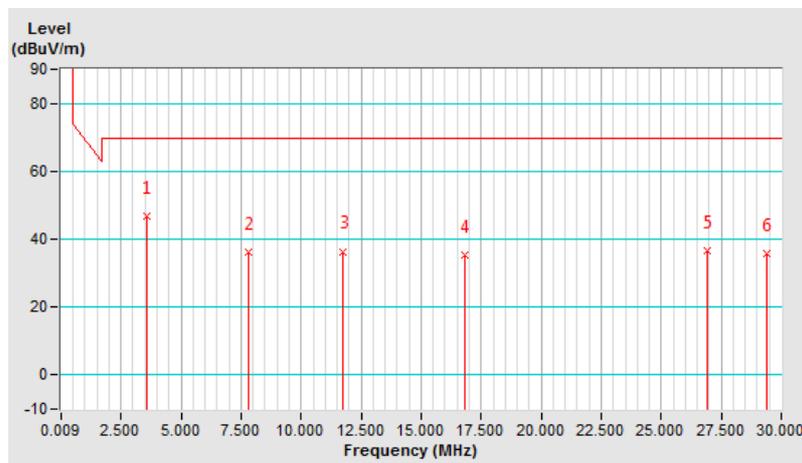
Remarks: Emission Level at 30m = Emission Level at 3m + $20\log(3/30)^2$

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.55	46.70 QP	69.50 QP	-22.80	1.00	262	26.90	19.80
2	7.81	36.30 QP	69.50 QP	-33.20	1.00	11	15.10	21.20
3	11.77	36.40 QP	69.50 QP	-33.10	1.00	91	14.60	21.80
4	16.80	35.50 QP	69.50 QP	-34.00	1.00	188	13.70	21.80
5	26.94	36.60 QP	69.50 QP	-32.90	1.00	43	14.50	22.10
6	29.40	35.80 QP	69.50 QP	-33.70	1.00	7	13.60	22.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.55	6.70 QP	29.50 QP	-32.40
2	7.81	-3.70 QP	29.50 QP	-32.72
3	11.77	-3.60 QP	29.50 QP	-34.24
4	16.80	-4.50 QP	29.50 QP	-34.11
5	26.94	-3.40 QP	29.50 QP	-34.68
6	29.40	-4.20 QP	29.50 QP	-33.90

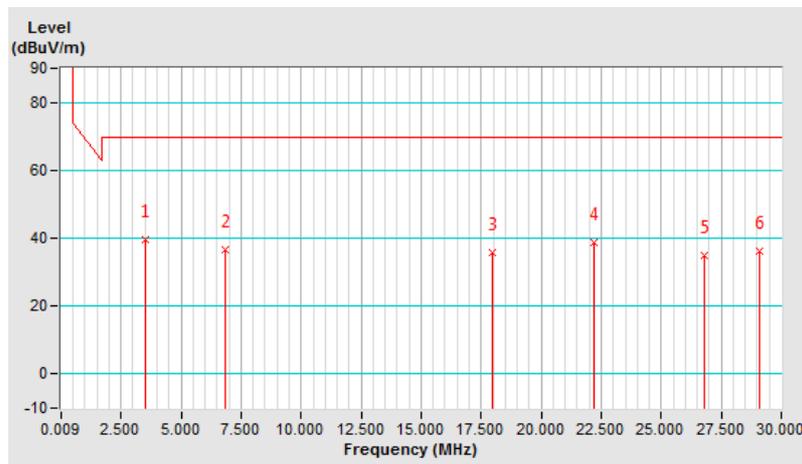
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.49	39.50 QP	69.50 QP	-30.00	1.00	353	19.70	19.80
2	6.85	36.80 QP	69.50 QP	-32.70	1.00	307	15.80	21.00
3	17.94	35.70 QP	69.50 QP	-33.80	1.00	143	13.90	21.80
4	22.20	38.70 QP	69.50 QP	-30.80	1.00	211	16.80	21.90
5	26.82	35.00 QP	69.50 QP	-34.50	1.00	115	12.90	22.10
6	29.10	36.30 QP	69.50 QP	-33.20	1.00	36	14.10	22.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.49	-0.50 QP	29.50 QP	-30.00
2	6.85	-3.20 QP	29.50 QP	-32.70
3	17.94	-4.30 QP	29.50 QP	-33.80
4	22.20	-1.30 QP	29.50 QP	-30.80
5	26.82	-5.00 QP	29.50 QP	-34.50
6	29.10	-3.70 QP	29.50 QP	-33.20

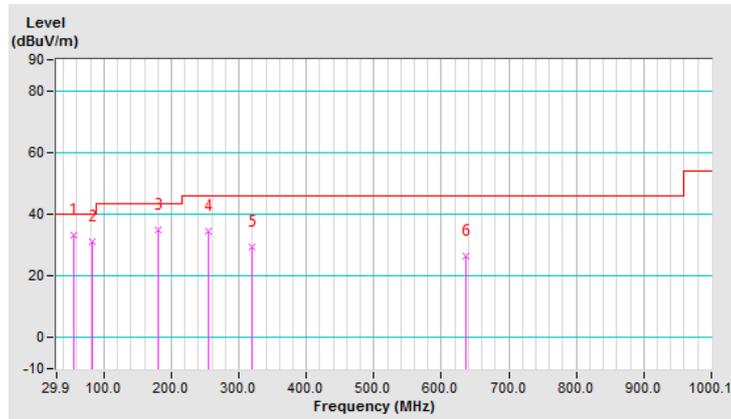
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	55.13	33.3 QP	40.0	-6.7	1.49 H	8	42.5	-9.2
2	82.29	31.2 QP	40.0	-8.8	1.00 H	283	45.1	-13.9
3	181.25	34.9 QP	43.5	-8.6	1.49 H	103	45.3	-10.4
4	254.99	34.6 QP	46.0	-11.4	1.00 H	247	43.9	-9.3
5	319.02	29.3 QP	46.0	-16.7	1.00 H	12	36.8	-7.5
6	637.25	26.3 QP	46.0	-19.7	1.49 H	141	28.0	-1.7

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

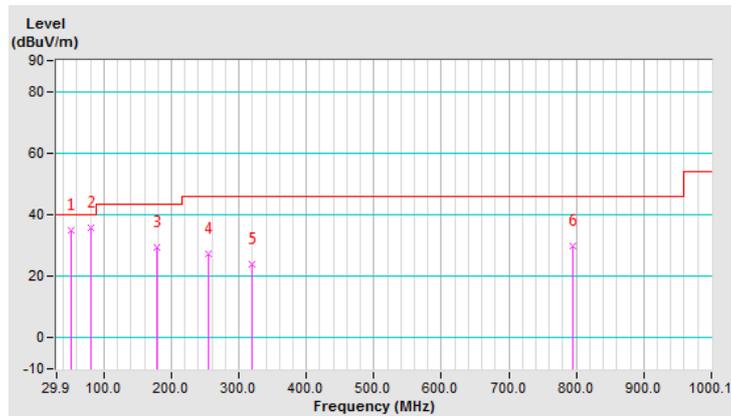


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	51.24	34.8 QP	40.0	-5.2	1.49 V	210	43.8	-9.0
2	80.35	35.6 QP	40.0	-4.4	1.49 V	162	49.1	-13.5
3	179.31	29.4 QP	43.5	-14.1	1.49 V	36	39.6	-10.2
4	254.99	27.2 QP	46.0	-18.8	1.49 V	351	36.5	-9.3
5	319.02	23.8 QP	46.0	-22.2	1.49 V	121	31.3	-7.5
6	794.42	29.7 QP	46.0	-16.3	1.00 V	120	28.1	1.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



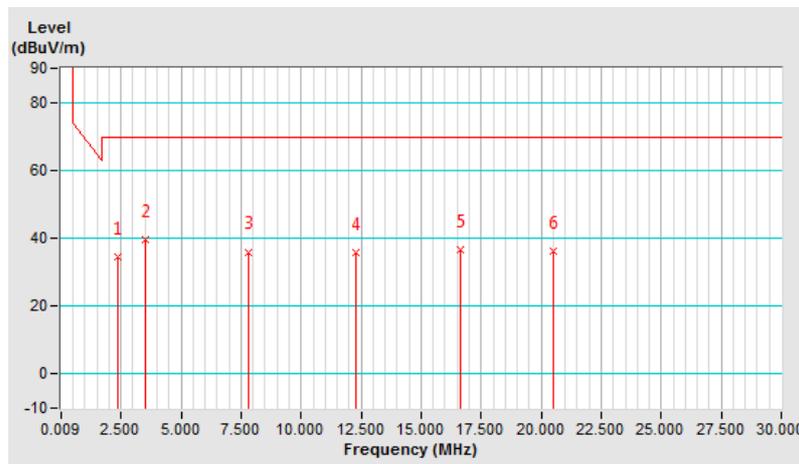
Mode D2

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.35	34.50 QP	69.50 QP	-35.00	1.00	330	14.80	19.70
2	3.49	39.60 QP	69.50 QP	-29.90	1.00	359	19.80	19.80
3	7.81	36.00 QP	69.50 QP	-33.50	1.00	344	14.80	21.20
4	12.31	35.70 QP	69.50 QP	-33.80	1.00	39	13.90	21.80
5	16.62	36.80 QP	69.50 QP	-32.70	1.00	4	15.00	21.80
6	20.52	36.10 QP	69.50 QP	-33.40	1.00	322	14.20	21.90

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.35	-5.50 QP	29.50 QP	-35.00
2	3.49	-0.40 QP	29.50 QP	-29.90
3	7.81	-4.00 QP	29.50 QP	-33.50
4	12.31	-4.30 QP	29.50 QP	-33.80
5	16.62	-3.20 QP	29.50 QP	-32.70
6	20.52	-3.90 QP	29.50 QP	-33.40

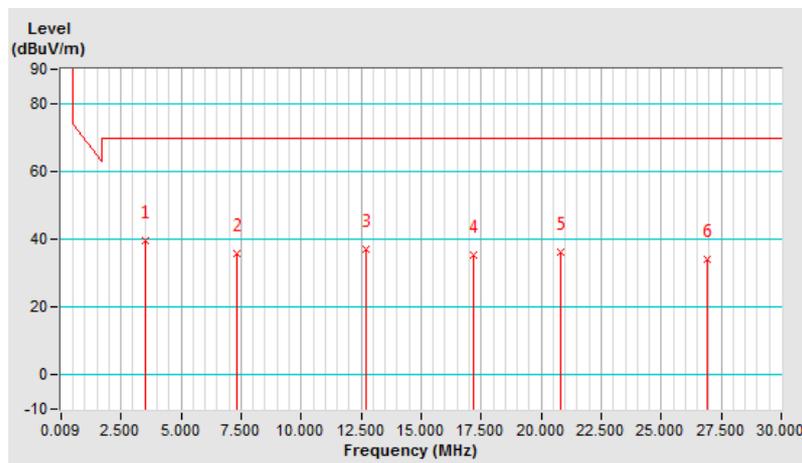
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.49	39.60 QP	69.50 QP	-29.90	1.00	359	19.80	19.80
2	7.33	35.80 QP	69.50 QP	-33.70	1.00	120	14.70	21.10
3	12.73	37.00 QP	69.50 QP	-32.50	1.00	89	15.20	21.80
4	17.16	35.50 QP	69.50 QP	-34.00	1.00	196	13.70	21.80
5	20.82	36.00 QP	69.50 QP	-33.50	1.00	98	14.10	21.90
6	26.94	34.20 QP	69.50 QP	-35.30	1.00	107	12.10	22.10

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.49	-0.40 QP	29.50 QP	-29.90
2	7.33	-4.20 QP	29.50 QP	-33.70
3	12.73	-3.00 QP	29.50 QP	-32.50
4	17.16	-4.50 QP	29.50 QP	-34.00
5	20.82	-4.00 QP	29.50 QP	-33.50
6	26.94	-5.80 QP	29.50 QP	-35.30

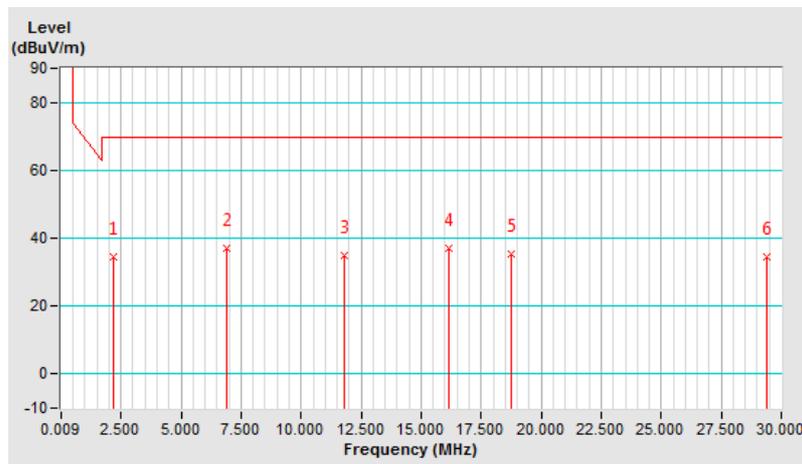
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.17	34.60 QP	69.50 QP	-34.90	1.00	290	14.90	19.70
2	6.91	37.00 QP	69.50 QP	-32.50	1.00	61	16.00	21.00
3	11.83	34.80 QP	69.50 QP	-34.70	1.00	59	13.00	21.80
4	16.14	37.00 QP	69.50 QP	-32.50	1.00	186	15.20	21.80
5	18.78	35.50 QP	69.50 QP	-34.00	1.00	265	13.70	21.80
6	29.40	34.30 QP	69.50 QP	-35.20	1.00	18	12.10	22.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.17	-5.40 QP	29.50 QP	-34.90
2	6.91	-3.00 QP	29.50 QP	-32.50
3	11.83	-5.20 QP	29.50 QP	-34.70
4	16.14	-3.00 QP	29.50 QP	-32.50
5	18.78	-4.50 QP	29.50 QP	-34.00
6	29.40	-5.70 QP	29.50 QP	-35.20

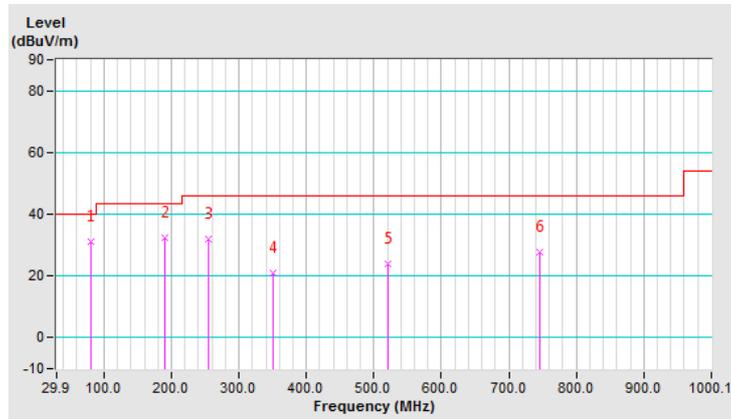
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	80.35	31.2 QP	40.0	-8.8	1.01 H	252	44.7	-13.5
2	190.95	32.5 QP	43.5	-11.0	1.50 H	302	43.7	-11.2
3	254.99	32.0 QP	46.0	-14.0	1.01 H	67	41.3	-9.3
4	350.07	21.0 QP	46.0	-25.0	1.01 H	229	28.4	-7.4
5	520.82	23.8 QP	46.0	-22.2	1.01 H	337	28.4	-4.6
6	745.91	27.7 QP	46.0	-18.3	1.50 H	71	26.9	0.8

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

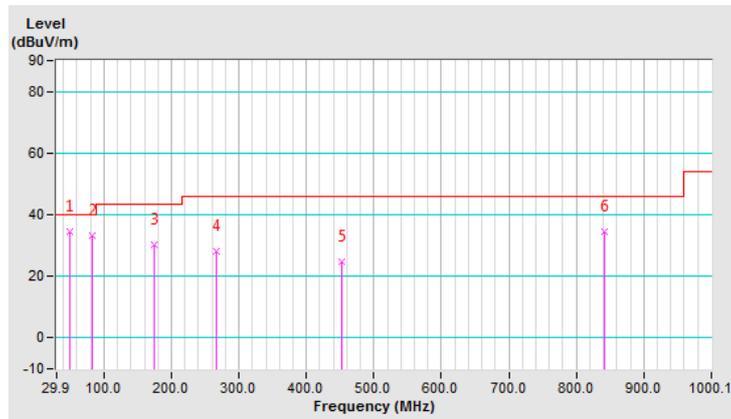


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	49.30	34.7 QP	40.0	-5.3	1.00 V	325	43.6	-8.9
2	82.29	33.4 QP	40.0	-6.6	1.50 V	111	47.3	-13.9
3	175.43	30.2 QP	43.5	-13.3	1.00 V	254	39.9	-9.7
4	266.63	28.3 QP	46.0	-17.7	1.00 V	297	37.3	-9.0
5	452.91	24.9 QP	46.0	-21.1	1.00 V	148	30.6	-5.7
6	840.99	34.5 QP	46.0	-11.5	1.50 V	13	32.1	2.4

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



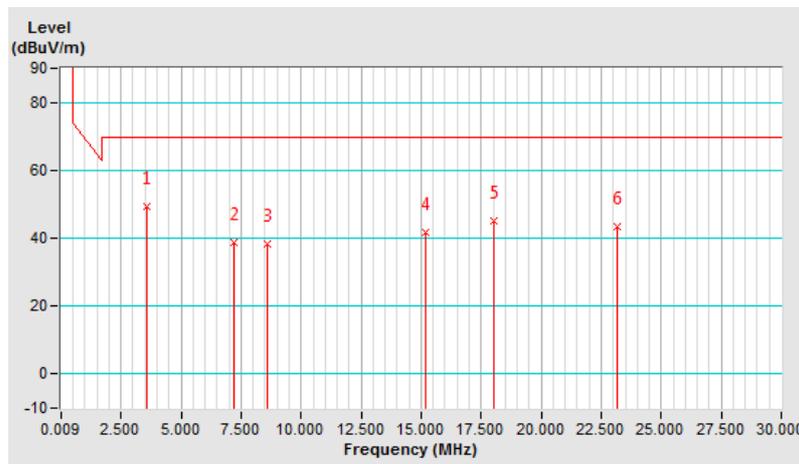
Mode D3

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Open At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3.55	49.50 QP	69.50 QP	-20.00	1.00	175	29.70	19.80
2	7.21	38.90 QP	69.50 QP	-30.60	1.00	318	17.80	21.10
3	8.59	38.50 QP	69.50 QP	-31.00	1.00	33	17.10	21.40
4	15.18	41.70 QP	69.50 QP	-27.80	1.00	220	19.90	21.80
5	18.00	45.20 QP	69.50 QP	-24.30	1.00	7	23.40	21.80
6	23.16	43.30 QP	69.50 QP	-26.20	1.00	54	21.30	22.00

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Open At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	3.55	9.50 QP	29.50 QP	-20.00
2	7.21	-1.10 QP	29.50 QP	-30.60
3	8.59	-1.50 QP	29.50 QP	-31.00
4	15.18	1.70 QP	29.50 QP	-27.80
5	18.00	5.20 QP	29.50 QP	-24.30
6	23.16	3.30 QP	29.50 QP	-26.20

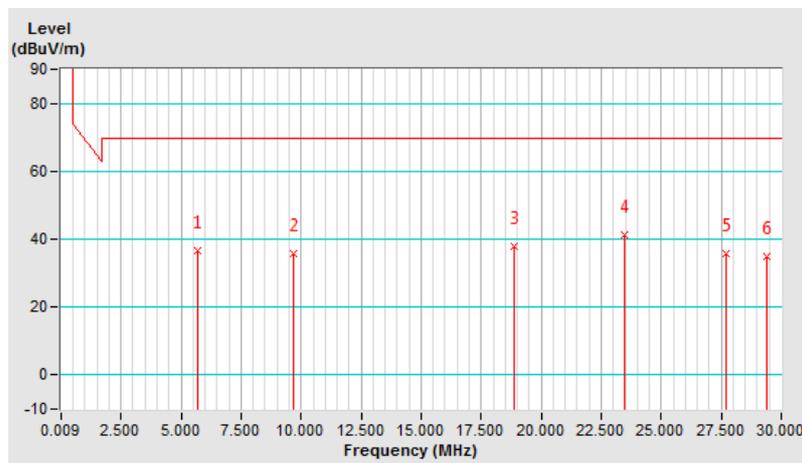
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Close At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	5.71	36.80 QP	69.50 QP	-32.70	1.00	208	16.10	20.70
2	9.67	35.60 QP	69.50 QP	-33.90	1.00	298	13.90	21.70
3	18.90	37.70 QP	69.50 QP	-31.80	1.00	260	15.90	21.80
4	23.46	41.20 QP	69.50 QP	-28.30	1.00	73	19.20	22.00
5	27.72	35.80 QP	69.50 QP	-33.70	1.00	143	13.70	22.10
6	29.40	35.10 QP	69.50 QP	-34.40	1.00	183	12.90	22.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Close At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	5.71	-3.20 QP	29.50 QP	-32.70
2	9.67	-4.40 QP	29.50 QP	-33.90
3	18.90	-2.30 QP	29.50 QP	-31.80
4	23.46	1.20 QP	29.50 QP	-28.30
5	27.72	-4.20 QP	29.50 QP	-33.70
6	29.40	-4.90 QP	29.50 QP	-34.40

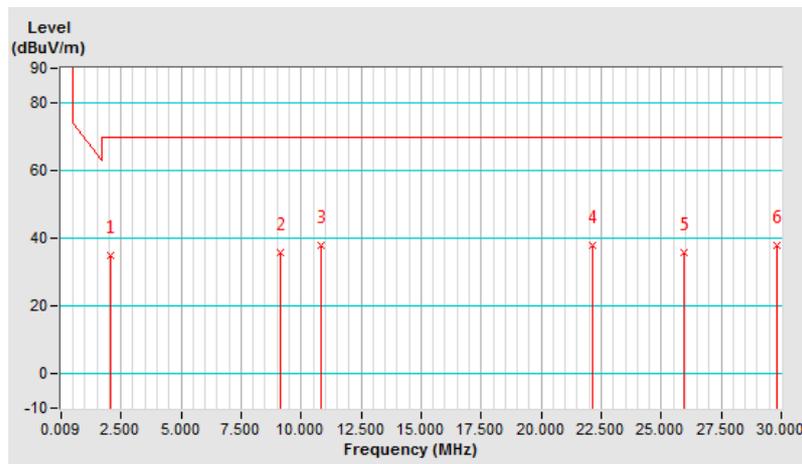
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 30MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Noah Chang

Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	2.05	35.00 QP	69.50 QP	-34.50	1.00	213	15.20	19.80
2	9.13	35.60 QP	69.50 QP	-33.90	1.00	141	14.00	21.60
3	10.81	37.70 QP	69.50 QP	-31.80	1.00	54	15.90	21.80
4	22.14	37.80 QP	69.50 QP	-31.70	1.00	84	15.90	21.90
5	25.92	35.90 QP	69.50 QP	-33.60	1.00	18	13.80	22.10
6	29.82	37.70 QP	69.50 QP	-31.80	1.00	115	15.50	22.20

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



Antenna Polarity & Test Distance: Loop Antenna Ground-Parallel At 30m				
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)
1	2.05	-5.00 QP	29.50 QP	-34.50
2	9.13	-4.40 QP	29.50 QP	-33.90
3	10.81	-2.30 QP	29.50 QP	-31.80
4	22.14	-2.20 QP	29.50 QP	-31.70
5	25.92	-4.10 QP	29.50 QP	-33.60
6	29.82	-2.30 QP	29.50 QP	-31.80

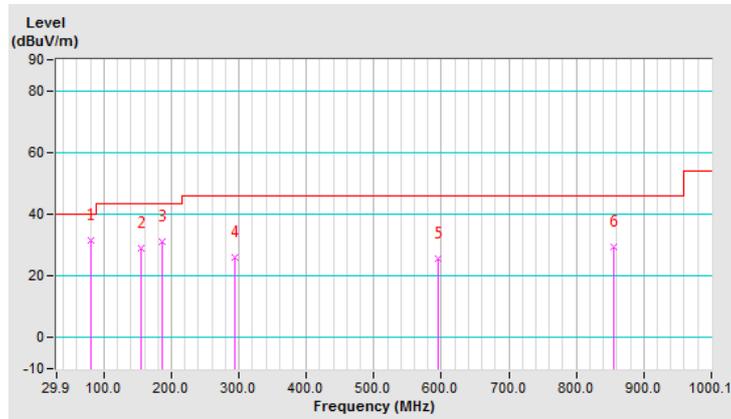
Remarks: Emission Level at 30m = Emission Level at 3m + 20log(3/30)²

EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Horizontal At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	80.35	31.7 QP	40.0	-8.3	1.01 H	301	45.2	-13.5
2	156.03	29.0 QP	43.5	-14.5	1.50 H	117	37.7	-8.7
3	187.07	31.2 QP	43.5	-12.3	1.01 H	338	42.1	-10.9
4	293.79	26.0 QP	46.0	-20.0	1.01 H	355	34.1	-8.1
5	594.56	25.5 QP	46.0	-20.5	1.01 H	177	28.3	-2.8
6	854.57	29.6 QP	46.0	-16.4	1.01 H	177	27.0	2.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value

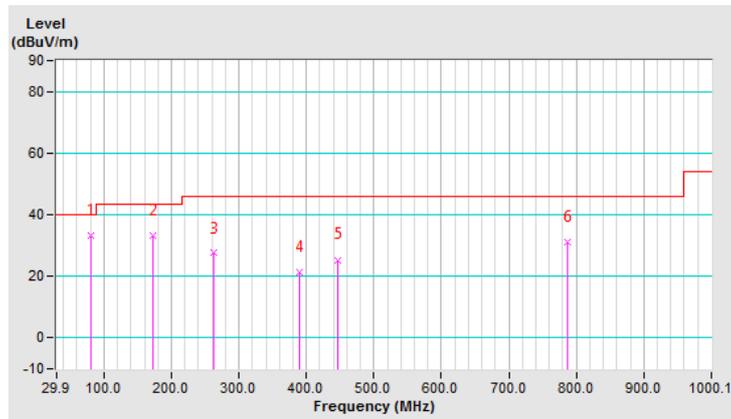


EUT Test Condition		Measurement Detail	
Channel	Channel 1	Frequency Range	Below 1000MHz
Input Power	120Vac, 60Hz	Detector Function	Quasi-Peak
Environmental Conditions	25 deg. C, 72% RH	Tested By	Luis Lee

Antenna Polarity & Test Distance: Vertical At 3m								
No.	Freq. (MHz)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	80.35	33.3 QP	40.0	-6.7	1.00 V	175	46.8	-13.5
2	173.49	33.2 QP	43.5	-10.3	1.00 V	247	42.8	-9.6
3	262.75	27.5 QP	46.0	-18.5	1.00 V	294	36.6	-9.1
4	388.87	21.3 QP	46.0	-24.7	1.00 V	33	28.0	-6.7
5	447.09	25.4 QP	46.0	-20.6	1.00 V	142	31.2	-5.8
6	786.66	31.1 QP	46.0	-14.9	1.00 V	42	29.5	1.6

Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission Level – Limit value



4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

Frequency (MHz)	Conducted Limit (dBuV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

4.2.2 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESCI	100613	Dec. 10, 2018	Dec. 09, 2019
RF signal cable Woken	5D-FB	Cable-cond1-01	Sep. 05, 2018	Sep. 04, 2019
LISN ROHDE & SCHWARZ (EUT)	ENV216	101826	Feb. 26, 2018	Feb. 25, 2019
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100311	Aug. 19, 2018	Aug. 18, 2019
Software ADT	BV ADT_Cond_ V7.3.7.4	NA	NA	NA

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

2. The test was performed in HwaYa Shielded Room 1.

3. The VCCI Site Registration No. is C-2040.

4.2.3 Test Procedures

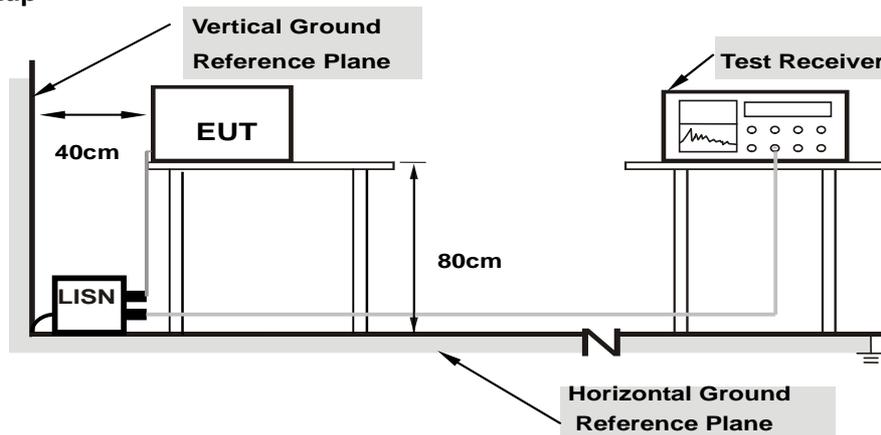
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

Note: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.6 EUT Operating Conditions

Same as 4.1.6.

4.2.7 Test Results

Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A1		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value		Emission Level		Limit		Margin	
			[dB (uV)]		[dB (uV)]		[dB (uV)]		(dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.19687	9.67	37.00	21.86	46.67	31.53	63.74	53.74	-17.07	-22.21
2	0.26719	9.67	27.72	19.28	37.39	28.95	61.20	51.20	-23.81	-22.25
3	0.56406	9.66	27.77	19.12	37.43	28.78	56.00	46.00	-18.57	-17.22
4	0.78281	9.65	28.17	14.40	37.82	24.05	56.00	46.00	-18.18	-21.95
5	3.07422	9.71	21.00	15.38	30.71	25.09	56.00	46.00	-25.29	-20.91
6	13.55859	9.87	29.41	29.05	39.28	38.92	60.00	50.00	-20.72	-11.08

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

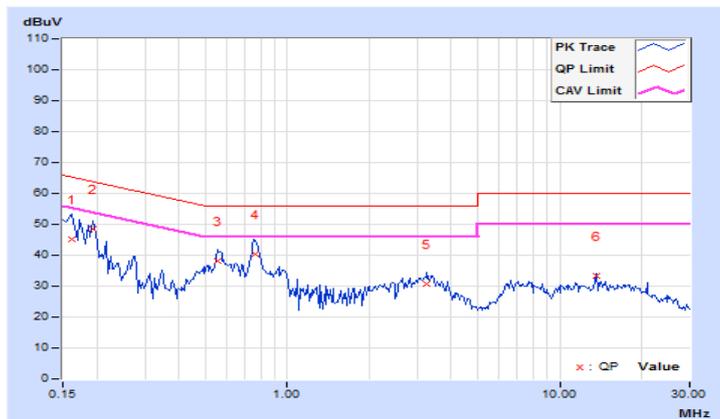


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A1		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16172	9.68	35.41	22.14	45.09	31.82	65.38
2	0.19297	9.67	38.68	23.10	48.35	32.77	63.91	53.91	-15.56	-21.14
3	0.55625	9.66	28.38	21.27	38.04	30.93	56.00	46.00	-17.96	-15.07
4	0.76719	9.66	30.82	17.58	40.48	27.24	56.00	46.00	-15.52	-18.76
5	3.24219	9.71	20.94	15.63	30.65	25.34	56.00	46.00	-25.35	-20.66
6	13.56250	9.92	23.55	22.10	33.47	32.02	60.00	50.00	-26.53	-17.98

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

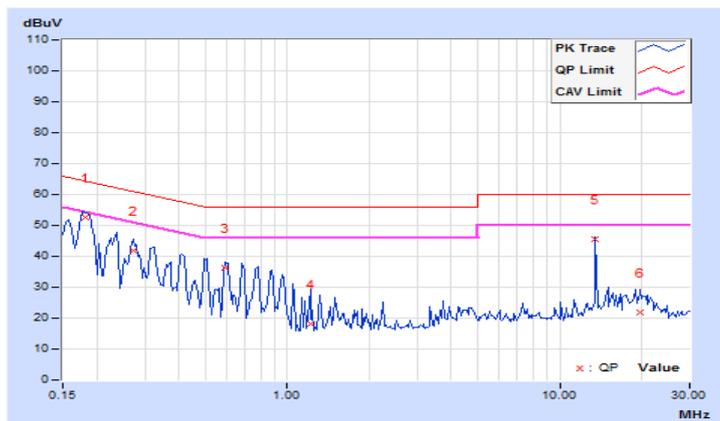


Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A2		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.18125	9.72	43.01	29.55	52.73	39.27	64.43
2	0.27109	9.73	32.30	18.41	42.03	28.14	61.08	51.08	-19.05	-22.94
3	0.59141	9.73	26.45	20.12	36.18	29.85	56.00	46.00	-19.82	-16.15
4	1.21484	9.69	8.58	5.87	18.27	15.56	56.00	46.00	-37.73	-30.44
5	13.55859	9.91	35.69	32.49	45.60	42.40	60.00	50.00	-14.40	-7.60
6	19.68359	9.95	11.99	3.15	21.94	13.10	60.00	50.00	-38.06	-36.90

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

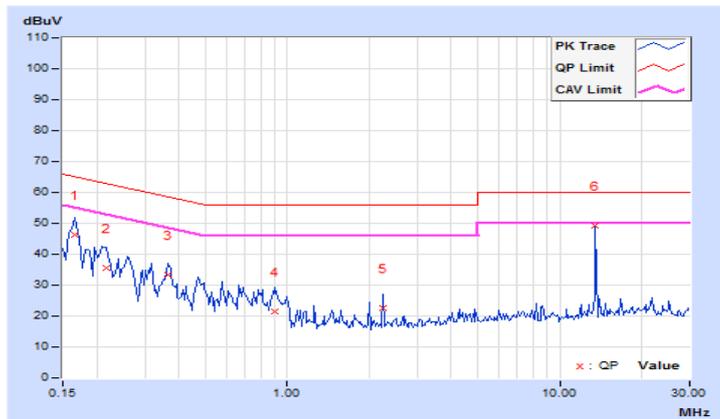


Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A2		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.16562	9.72	36.56	25.66	46.28	35.38	65.18
2	0.21641	9.73	25.78	14.32	35.51	24.05	62.96	52.96	-27.45	-28.91
3	0.36484	9.75	23.60	12.82	33.35	22.57	58.62	48.62	-25.27	-26.05
4	0.89609	9.73	11.85	1.08	21.58	10.81	56.00	46.00	-34.42	-35.19
5	2.25391	9.74	13.02	2.47	22.76	12.21	56.00	46.00	-33.24	-33.79
6	13.55859	9.98	39.30	37.08	49.28	47.06	60.00	50.00	-10.72	-2.94

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



Phase	Line (L)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A3		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.20078	9.67	38.48	31.40	48.15	41.07	63.58
2	0.32188	9.66	32.44	26.35	42.10	36.01	59.66	49.66	-17.56	-13.65
3	0.54453	9.66	29.16	22.44	38.82	32.10	56.00	46.00	-17.18	-13.90
4	1.34766	9.66	29.85	22.46	39.51	32.12	56.00	46.00	-16.49	-13.88
5	5.82422	9.77	12.53	6.65	22.30	16.42	60.00	50.00	-37.70	-33.58
6	13.55859	9.87	28.06	24.34	37.93	34.21	60.00	50.00	-22.07	-15.79

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.



Phase	Neutral (N)	Detector Function	Quasi-Peak (QP) / Average (AV)
Test Mode	A3		

No	Freq. [MHz]	Corr. Factor (dB)	Reading Value [dB (uV)]		Emission Level [dB (uV)]		Limit [dB (uV)]		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
			1	0.19297	9.67	40.36	33.61	50.03	43.28	63.91
2	0.32188	9.67	33.58	27.41	43.25	37.08	59.66	49.66	-16.41	-12.58
3	0.54063	9.67	30.40	23.63	40.07	33.30	56.00	46.00	-15.93	-12.70
4	1.30469	9.66	29.12	21.54	38.78	31.20	56.00	46.00	-17.22	-14.80
5	2.59375	9.69	13.57	7.54	23.26	17.23	56.00	46.00	-32.74	-28.77
6	13.55859	9.92	25.97	22.12	35.89	32.04	60.00	50.00	-24.11	-17.96

Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level - Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value.

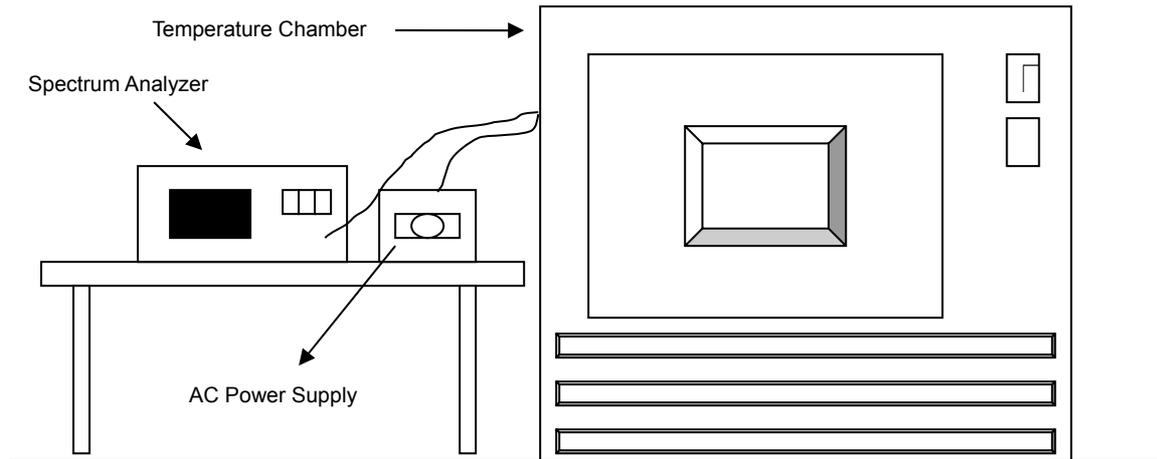


4.3 Frequency Stability

4.3.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to 50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.

4.3.2 Test Setup



4.3.3 Test Instruments

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 11, 2018	Jun. 10, 2019
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 04, 2018	Jun. 03, 2019
Digital Multimeter Fluke	87-III	70360742	Jun. 29, 2018	Jun. 28, 2019
AC Power Supply Extech	CFW-105	E000603	NA	NA

4.3.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
- Turned the EUT on and coupled its output to a spectrum analyzer.
- Turned the EUT off and set the chamber to the highest temperature specified.
- Allowed sufficient time (approximately 30 min) for the temperature of the chamber to stabilize then turned the EUT on and measured the operating frequency after 2, 5, and 10 minutes.
- Repeated step 2 and 3 with the temperature chamber set to the lowest temperature.
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Conditions

Same as Item 4.1.6.

4.3.7 Test Result

Mode A1

Frequency Stability Versus Temp.									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
50	120	13.56007	0.00052	13.56005	0.00037	13.56006	0.00044	13.56006	0.00044
40	120	13.56003	0.00022	13.56003	0.00022	13.56003	0.00022	13.56003	0.00022
30	120	13.55998	-0.00015	13.55997	-0.00022	13.55997	-0.00022	13.55997	-0.00022
20	120	13.55998	-0.00015	13.55999	-0.00007	13.55998	-0.00015	13.55998	-0.00015
10	120	13.55996	-0.00029	13.55996	-0.00029	13.55995	-0.00037	13.55996	-0.00029
0	120	13.55994	-0.00044	13.55994	-0.00044	13.55993	-0.00052	13.55994	-0.00044
-10	120	13.55997	-0.00022	13.55997	-0.00022	13.55996	-0.00029	13.55996	-0.00029
-20	120	13.56004	0.00029	13.56004	0.00029	13.56004	0.00029	13.56004	0.00029

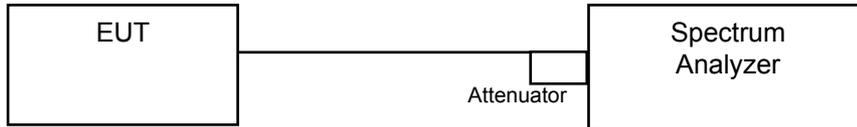
Frequency Stability Versus Voltage									
TEMP. (°C)	Power Supply (Vac)	0 Minute		2 Minute		5 Minute		10 Minute	
		Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift	Measured Frequency	Frequency Drift
		(MHz)	%	(MHz)	%	(MHz)	%	(MHz)	%
20	138	13.55998	-0.00015	13.55999	-0.00007	13.55998	-0.00015	13.55998	-0.00015
	120	13.55998	-0.00015	13.55999	-0.00007	13.55998	-0.00015	13.55998	-0.00015
	102	13.55998	-0.00015	13.55999	-0.00007	13.55998	-0.00015	13.55998	-0.00015

4.4 20dB Bandwidth

4.4.1 Limits of 20dB Bandwidth Measurement

The 20dB bandwidth shall be specified in operating frequency band.

4.4.2 Test Setup



4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedures

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 1kHz RBW and 3kHz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

4.4.5 Deviation from Test Standard

No deviation.

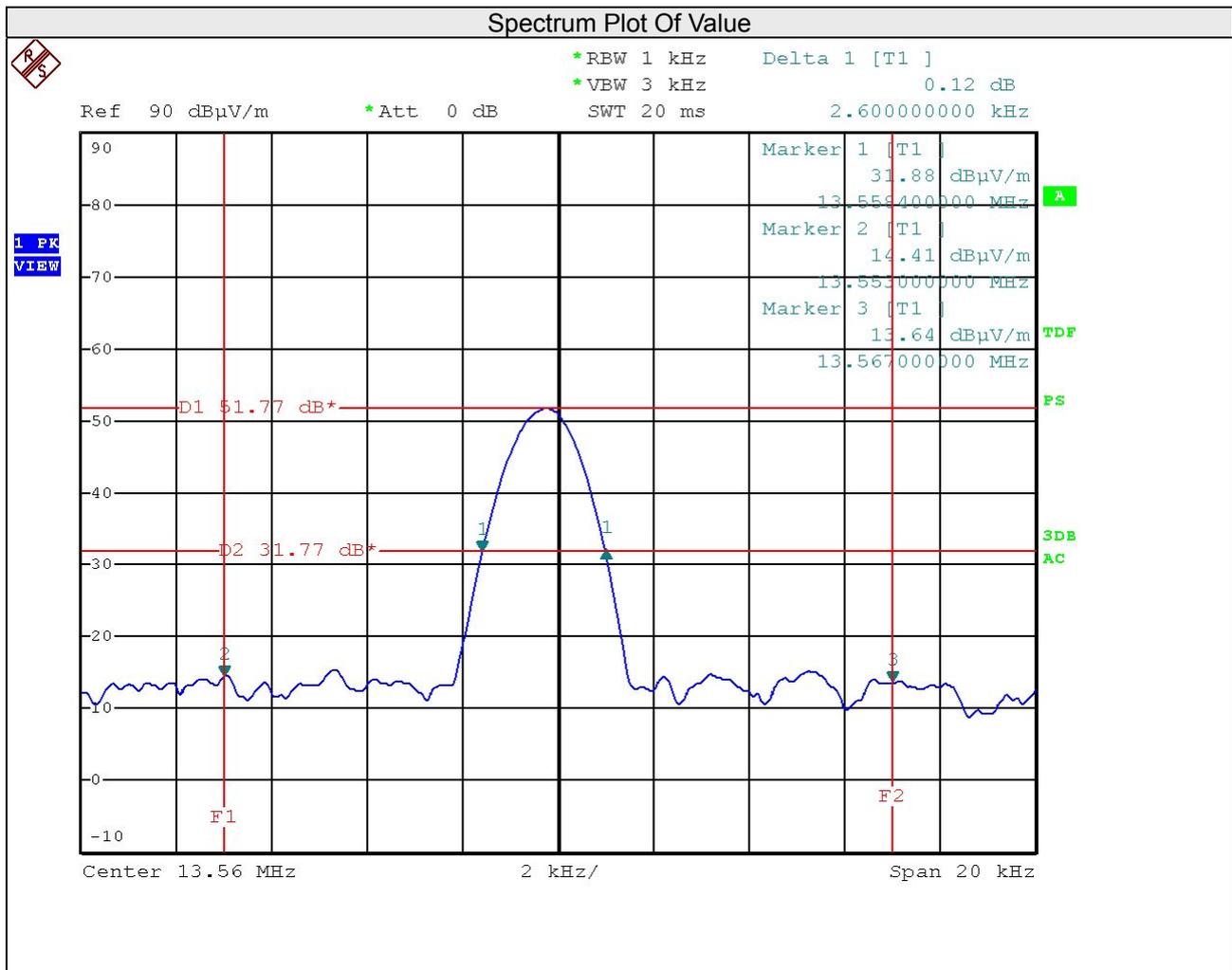
4.4.6 EUT Operating Conditions

Same as Item 4.1.6.

4.4.7 Test Results

Mode A1

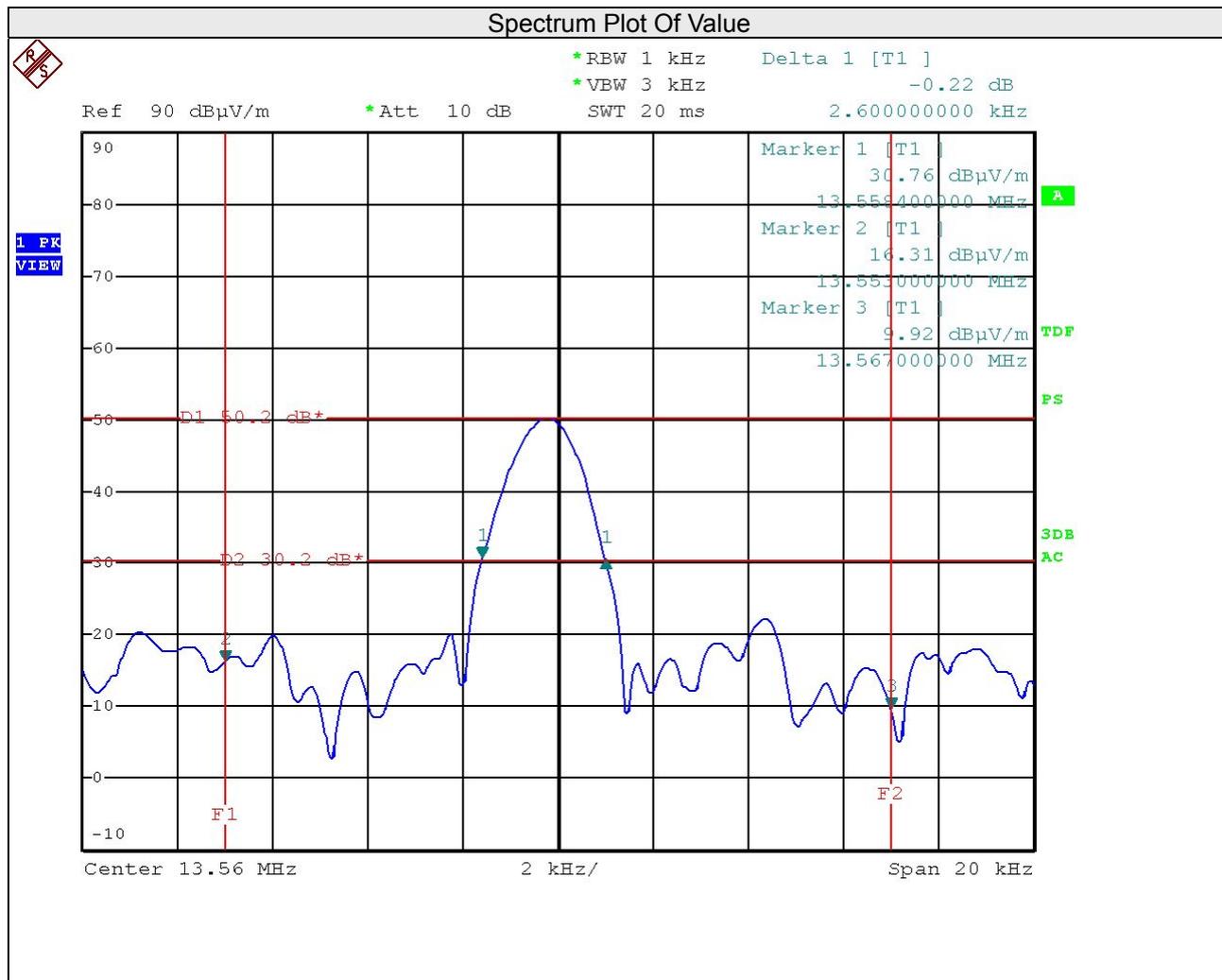
20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	Pass / Fail
13.55940	13.55966	13.553~13.567	Pass



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

Mode B1

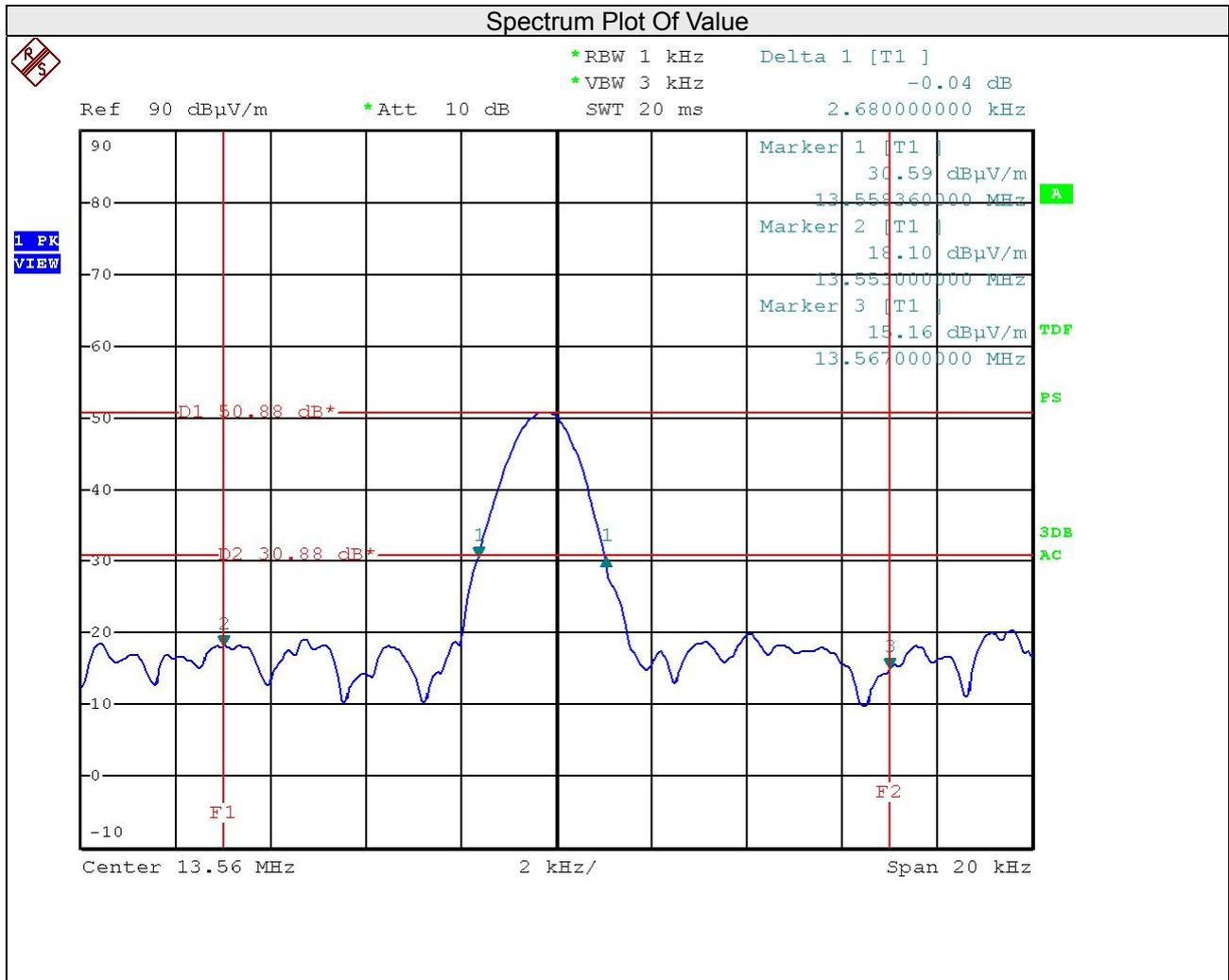
20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	Pass / Fail
13.55940	13.55966	13.553~13.567	Pass



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

Mode C1

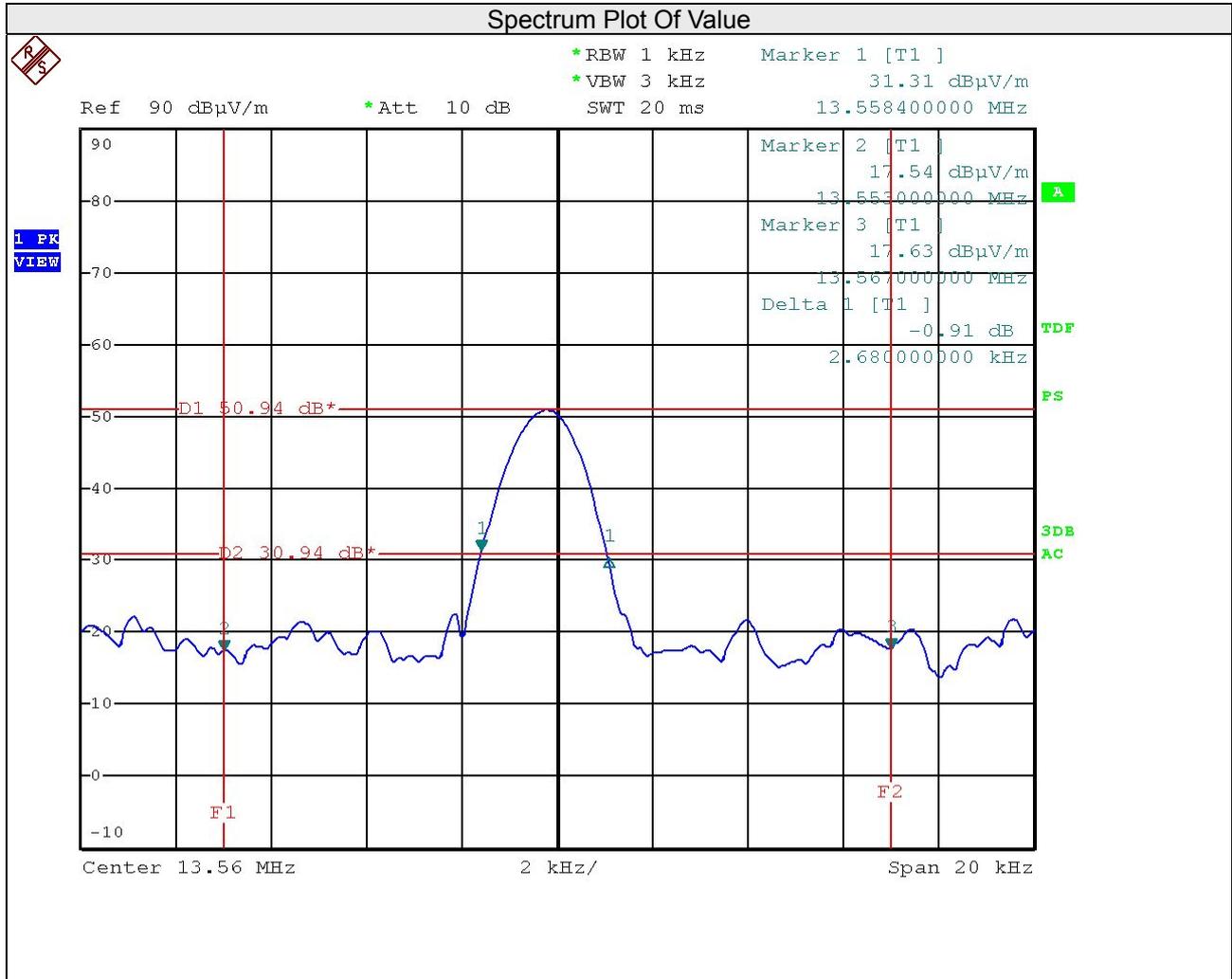
20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	Pass / Fail
13.55936	13.55962	13.553~13.567	Pass



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

Mode D1

20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	Pass / Fail
13.55840	13.55610	13.553~13.567	Pass



Note: The signal look like CW signal, so RBW can't be match 1~5 % OBW.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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