

FCC TEST REPORT (NFC)

REPORT NO.: RF141117C22-3

MODEL NO.: TC75AH

FCC ID: H9PTC75AH

RECEIVED: Nov. 17, 2014

TESTED: Dec. 06, 2014 ~ Jan. 26, 2015

ISSUED: Feb. 16, 2015

APPLICANT: Symbol Technologies, Inc.

ADDRESS: One Motorola Plaza, Holtsville, NY 11742-1300 USA

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 Tsuen, Kwei Shan
Hsiang, Taoyuan Hsien 333, Taiwan, R.O.C.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
RF141117C22-3	Original release	Feb. 16, 2015



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1. CERTIFICATION

PRODUCT: Touch Computer

MODEL: TC75AH

BRAND: Symbol

APPLICANT: Symbol Technologies, Inc.

TESTED: Dec. 06, 2014 ~ Jan. 26, 2015

TEST SAMPLE: ENGINEERING SAMPLE

STANDARDS: FCC Part 15, Subpart C (Section 15.225)

FCC Part 15, Subpart C (Section 15.215)

ANSI C63.10-2009

The above equipment (model: TC75AH) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY :

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Gina Liu / Specialist

, DATE : Feb. 16, 2015

APPROVED BY :

Sam chen

Sam Chen / Senior Project Engineer

, DATE : Feb. 16, 2015

2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC PART 15, SUBPART C (SECTION 15.225, 15.215)			
STANDARD SECTION	TEST TYPE AND LIMIT	RESULT	REMARK
15.207	Conducted emission test	PASS	Meet the requirement of limit. Minimum passing margin is -6.84dB at 0.17801MHz.
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 -60.63dB at 13.56MHz.
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 -3.32dB at 40.80MHz.
15.225 (e)	The frequency tolerance	PASS	Meet the requirement of limit.
15.215 (c)	20dB Bandwidth	PASS	Meet the requirement of limit.

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	UNCERTAINTY
Conducted Emission	150kHz ~ 30MHz	2.44 dB
Radiated emissions	30MHz ~ 200MHz	3.34 dB
	200MHz ~1000MHz	3.35 dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

EUT	Touch Computer
MODEL NO.	TC75AH
POWER SUPPLY	5.4Vdc (adapter or host equipment) 3.7Vdc (Li-ion battery)
MODULATION TYPE	ASK
OPERATING FREQUENCY	13.56MHz
ANTENNA TYPE	Loop Antenna
DATA CABLE	Refer to Note
I/O PORTS	Refer to user's manual
ACCESSORY DEVICES	Refer to Note
HW VERSION	DV3
SW VERSION	Android version : 4.4.3 Build number : 91-23257-K-07-04-00-D3

NOTE:

1. The EUT contains following accessory devices.

ITEM	BRAND	MODEL	SPECIFICATION
Adapter	Motorola	86-14000-249R	I/P: 100-240Vac, 50/60Hz, 0.6A O/P: 5.4Vdc, 3A
Battery	Symbol	82-171249-02	3.7Vdc, 4500mAh
Charging only Cable Cup	Symbol	CHG-TC7X-CBL1-01	0.2m non-shielded cable w/o core
Earphone 1	Symbol / Zebra	HDST-25MM-PTVP-01	1.3m non-shielded cable w/o core
Earphone 2	Symbol / Zebra	RCH51	1.05m shielded cable w/o core
TC7X SNAP ON AUDIO ADAPTER	Symbol / Zebra	ADP-TC7X-AUDIO1-01	--
Snap On USB Cable	Symbol / Zebra	CBL-TC7X-USB1-01	1.8m non-shielded cable with core

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

3.2 DESCRIPTION OF TEST MODES

3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

EUT CONFIGURE MODE	APPLICABLE TO				DESCRIPTION
	RE	PLC	FS	BW	
A	√	√	√	√	EUT + Earphone 1 Type A: 106kbps
B	√	√	√	√	EUT + Earphone 1 Type B: 212kbps
C	√	√	√	√	EUT + Earphone 1 Type F: 424kbps
D	√	√	√	√	EUT + Earphone 1 Type V: 848kbps
E	√	-	-	√	EUT + Earphone 2 Type A: 106kbps
F	√	√	-	√	EUT + U-cup cable + USB cable Type A: 106kbps

Where **RE:** Radiated Emission **PLC:** Power Line Conducted Emission
FS: Frequency Stability **BW:** 20dB Bandwidth

NOTE:

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane**.

RADIATED EMISSION TEST:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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
A, B, C, D, E, F	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 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
A, B, C, D, F	1	1	ASK

FREQUENCY STABILITY:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations 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
A, B, C, D	1	1	ASK



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20dB BANDWIDTH:

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, 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
A, B, C, D, E, F	1	1	ASK

TEST CONDITION:

APPLICABLE TO	ENVIRONMENTAL CONDITIONS	INPUT POWER	TESTED BY
RE	25deg. C, 65%RH	120Vac, 60Hz	Toby Tian
FS	25deg. C, 65%RH	120Vac, 60Hz	Howard Kao
PLC	25deg. C, 65%RH	120Vac, 60Hz	Anson Lin
BW	25deg. C, 65%RH	120Vac, 60Hz	Howard Kao

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.

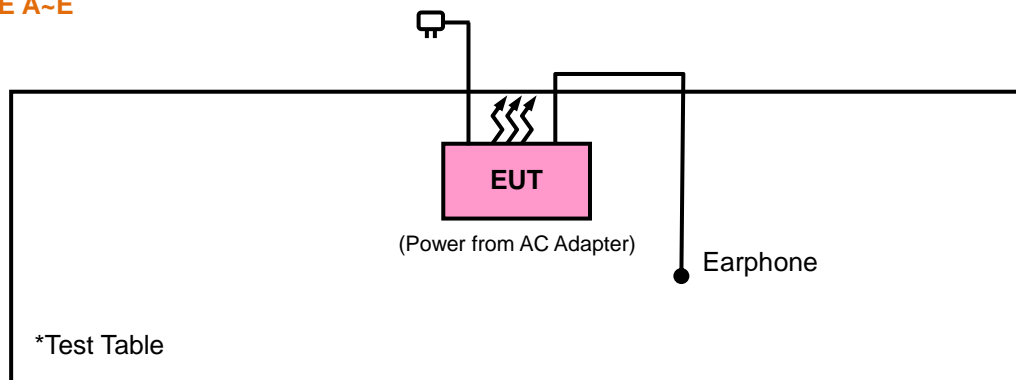
NO.	PRODUCT	BRAND	MODEL NO.	SERIAL NO.	FCC ID
1	Notebook	DELL	Inspiron 14R	8LRKKW1	NA

NO.	SIGNAL CABLE DESCRIPTION OF THE ABOVE SUPPORT UNITS
1	N/A

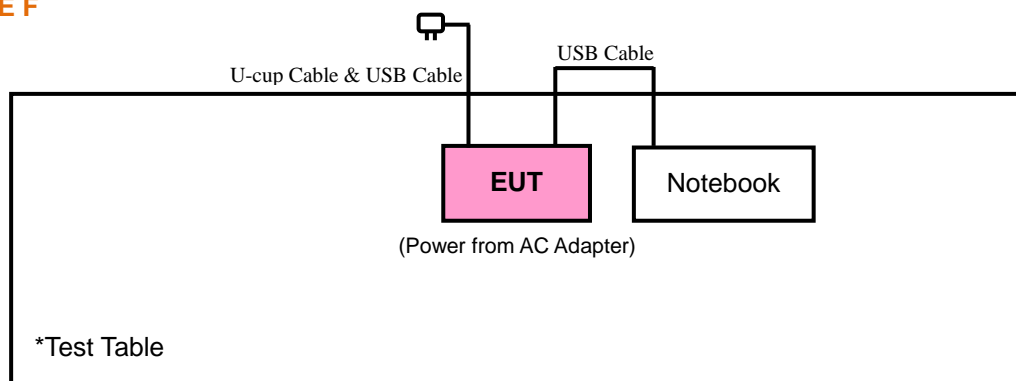
- NOTE:** 1. All power cords of the above support units are non shielded (1.8m).
2. Item 1 as a communication partner to transfer data.

3.3.1 CONFIGURATION OF SYSTEM UNDER TEST

MODE A~E



MODE F



3.4 GENERAL DESCRIPTION OF APPLIED STANDARDS

The EUT is a RFID 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 C63.10-2009

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

NOTE: The EUT has been verified to comply with the requirements of FCC Part 15, Subpart B, Class B. The test report has been issued separately.

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.

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. As shown in 15.35(b), 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.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent Technologies	N9038A	MY52260177	May. 19, 2014	May. 18, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27, 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 19, 2014	Feb. 18, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Aug. 27, 2014	Aug. 26, 2015
Loop Antenna	HFH2-Z2	100070	Mar. 06, 2014	Mar. 05, 2016
Preamplifier EMCI	EMC 012645	980115	Dec. 26, 2013	Dec. 25, 2014
Preamplifier EMCI	EMC 184045	980116	Jan. 13, 2014	Jan. 12, 2015
Preamplifier EMCI	EMC 330H	980112	Dec. 27, 2013	Dec. 26, 2014
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2014	Oct. 17, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2014	Oct. 17, 2015
RF signal cable Worken	RG-213	NA	Nov. 07, 2014	Nov. 06, 2015
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	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 calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 10.
4. The FCC Site Registration No. is 690701.
5. The IC Site Registration No. is IC 7450F-10.



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DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Spectrum Analyzer Agilent Technologies	N9038A	MY52260177	May. 19, 2014	May. 18, 2015
Spectrum Analyzer ROHDE & SCHWARZ	FSU43	101261	Dec. 10, 2014	Dec. 09, 2015
BILOG Antenna SCHWARZBECK	VULB9168	9168-472	Feb. 27, 2014	Feb. 26, 2015
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-969	Feb. 19, 2014	Feb. 18, 2015
HORN Antenna SCHWARZBECK	BBHA 9170	9170-480	Aug. 27, 2014	Aug. 26, 2015
Loop Antenna	HFH2-Z2	100070	Mar. 06, 2014	Mar. 05, 2016
Preamplifier EMCI	EMC 012645	980115	Dec. 12, 2014	Dec. 11, 2015
Preamplifier EMCI	EMC 184045	980116	Jan. 09, 2015	Jan. 08, 2016
Preamplifier EMCI	EMC 330H	980112	Dec. 25, 2014	Dec. 24, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	309219/4 2950114	Oct. 18, 2014	Oct. 17, 2015
RF signal cable HUBER+SUHNNER	SUCOFLEX 104	250130/4	Oct. 18, 2014	Oct. 17, 2015
RF signal cable Worken	RG-213	NA	Nov. 07, 2014	Nov. 06, 2015
Software BV ADT	E3 6.120103	NA	NA	NA
Antenna Tower MF	MFA-440H	NA	NA	NA
Turn Table MF	MFT-201SS	NA	NA	NA
Antenna Tower & Turn Table Controller MF	MF-7802	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 calibration interval of the loop antenna is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 10.
4. The horn antenna and HP preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
5. The FCC Site Registration No. is 690701.
6. The IC Site Registration No. is IC 7450F-10.

4.1.3 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 antenna is a broadband antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

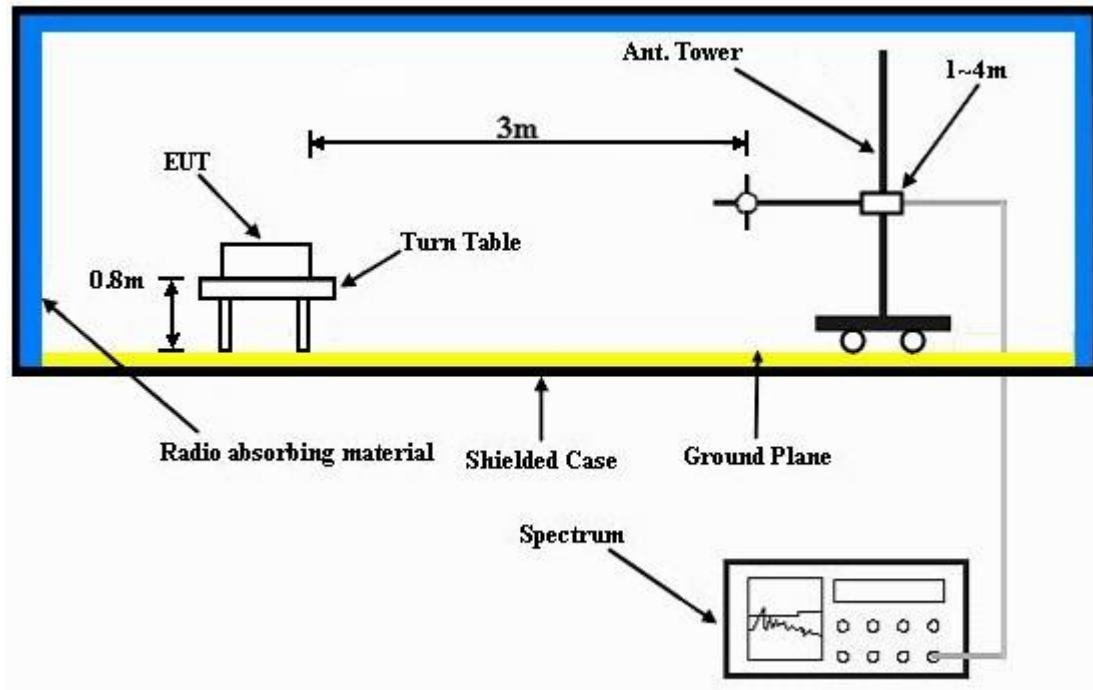
NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. 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 SETUP



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

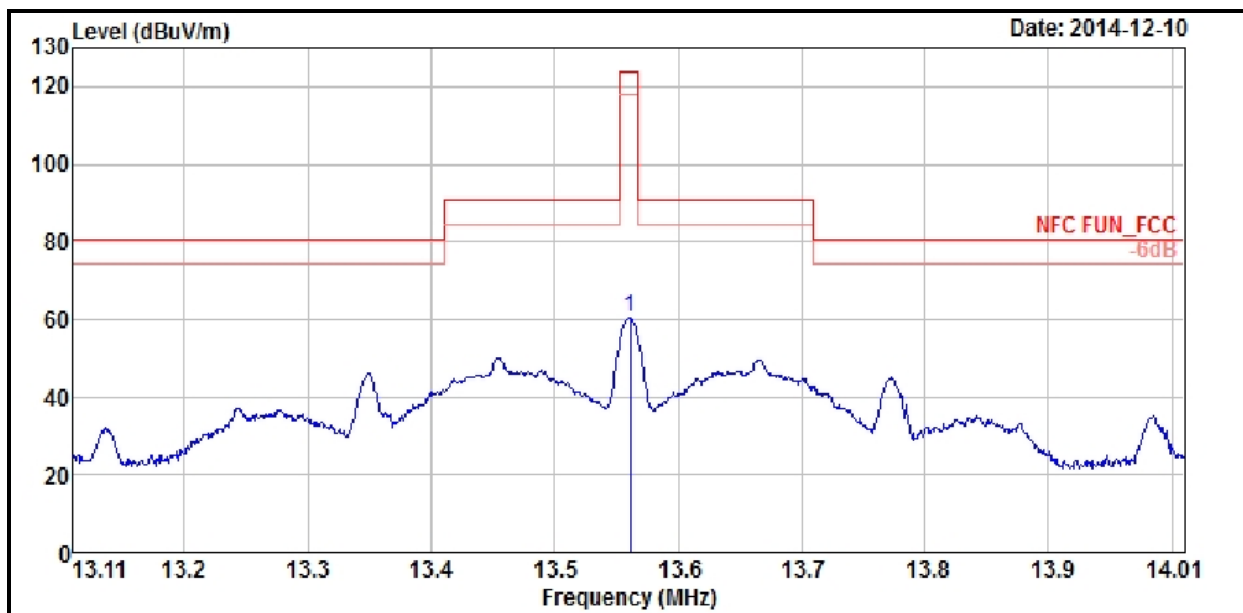
4.1.6 EUT OPERATING CONDITIONS

Set the EUT under transmission condition continuously at specific channel frequency.

4.1.7 TEST RESULTS

MODE A

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.561	60.53	63.91	124	-63.47	41.36	100	0	Peak

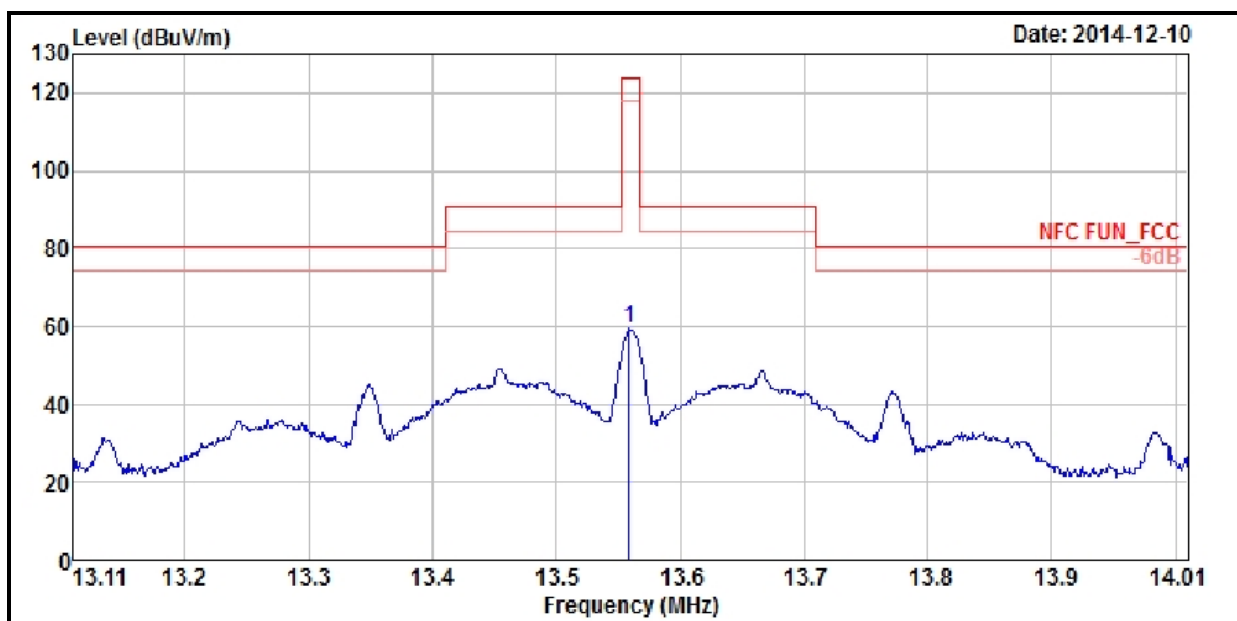
- REMARKS:**
1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated 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:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.559	59.26	62.64	124	-64.74	41.36	100	360	Peak

- REMARKS:**
1. Emission level(dBuV/m)= Read Level (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.
 5. Above limits have been translated by the formula

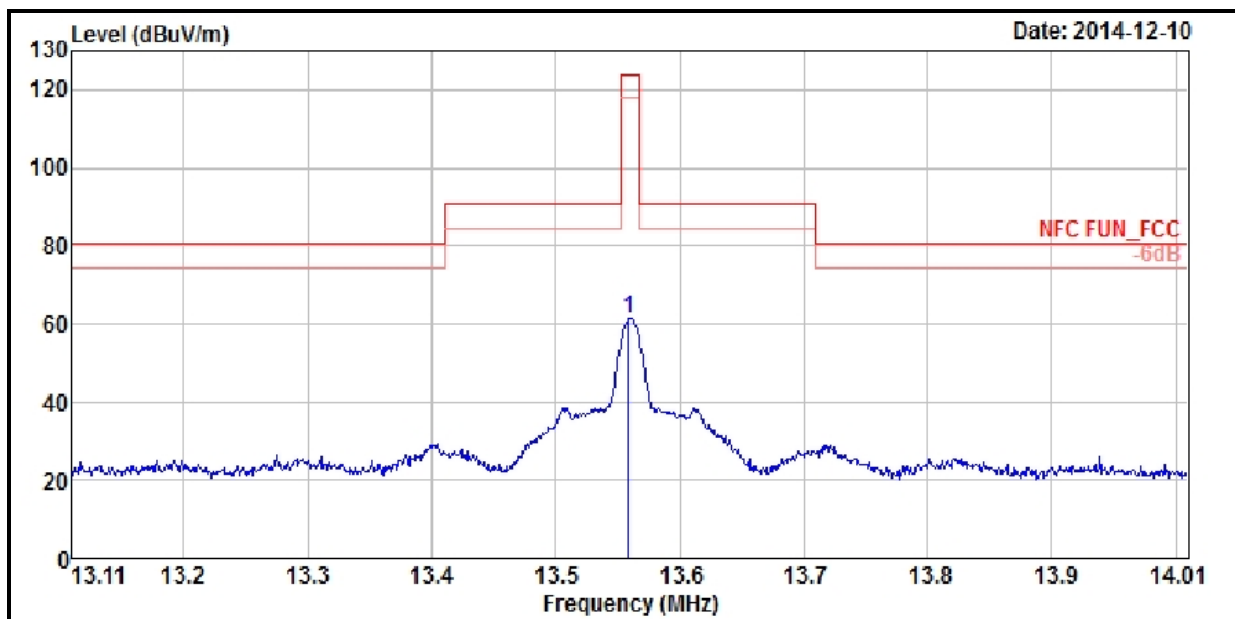
The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

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

MODE B

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.559	61.47	64.85	124	-62.53	41.36	100	360	Peak

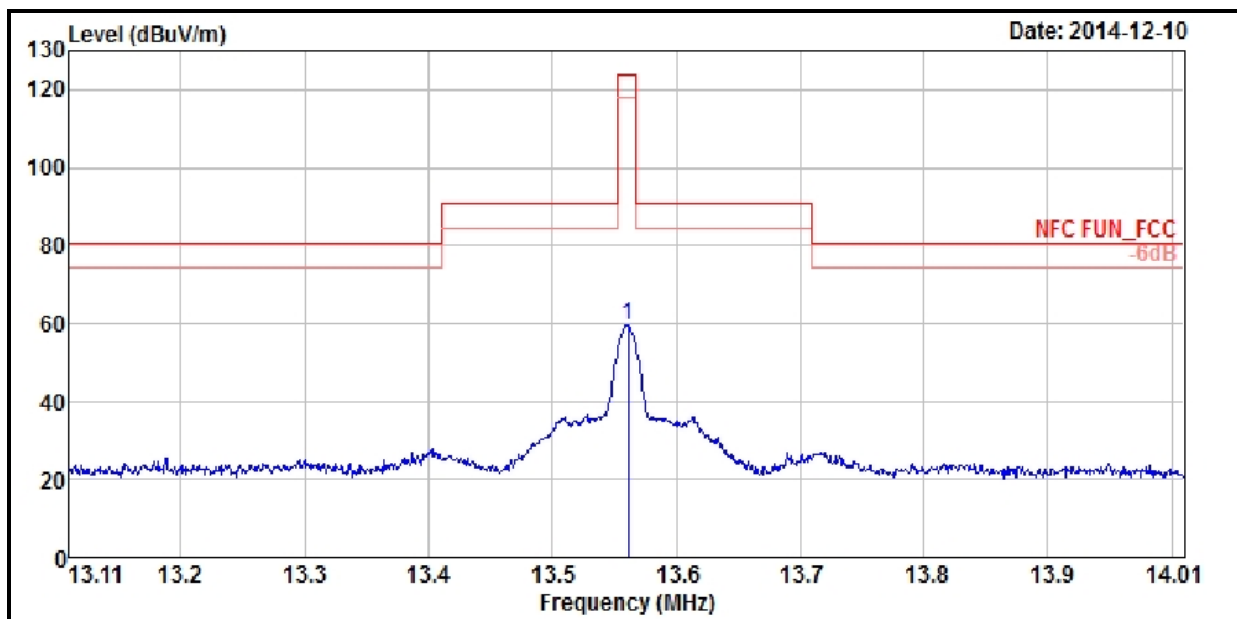
- REMARKS:**
1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated 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:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.561	59.51	62.89	124	-64.49	41.36	100	0	Peak

- REMARKS:**
1. Emission level(dBuV/m)= Read Level (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.
 5. Above limits have been translated by the formula

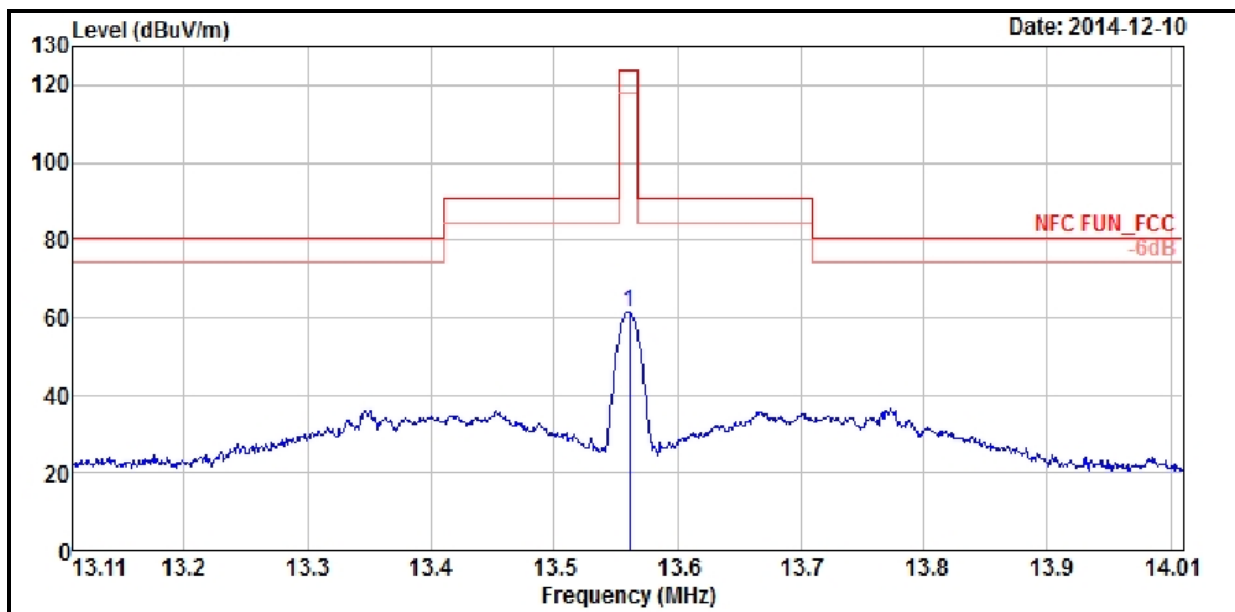
The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

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

MODE C

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.561	61.52	64.9	124	-62.48	41.36	100	0	Peak

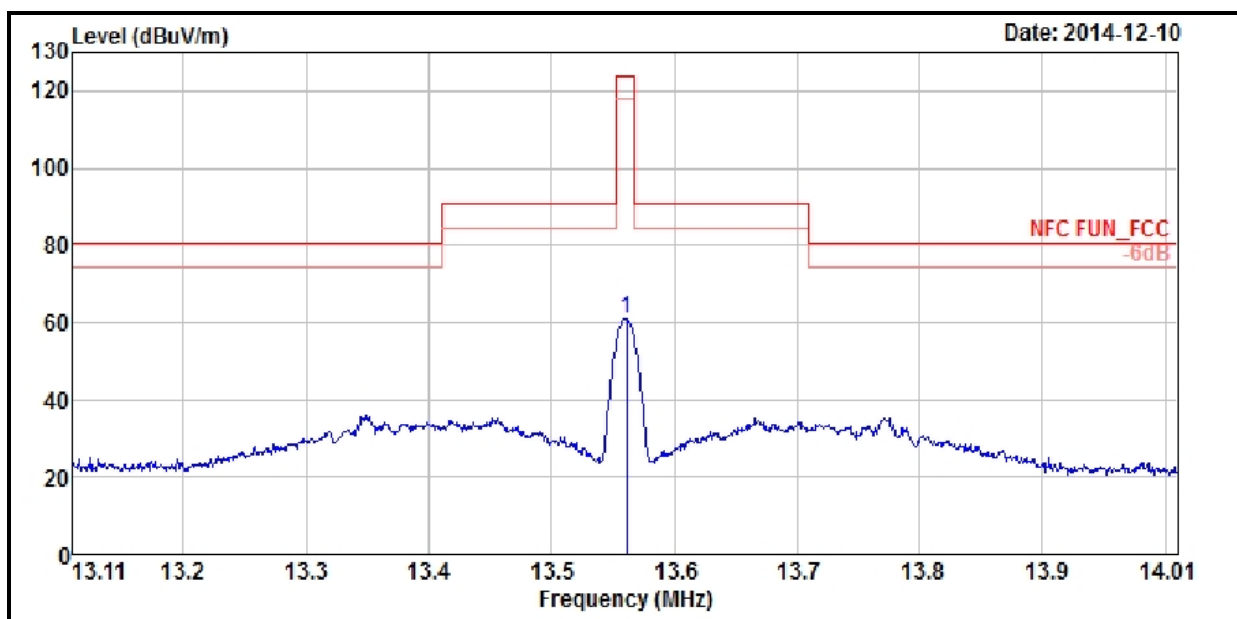
- REMARKS:**
1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated 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:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.561	61.06	64.44	124	-62.94	41.36	100	360	Peak

- REMARKS:**
1. Emission level(dBuV/m)= Read Level (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.
 5. Above limits have been translated by the formula

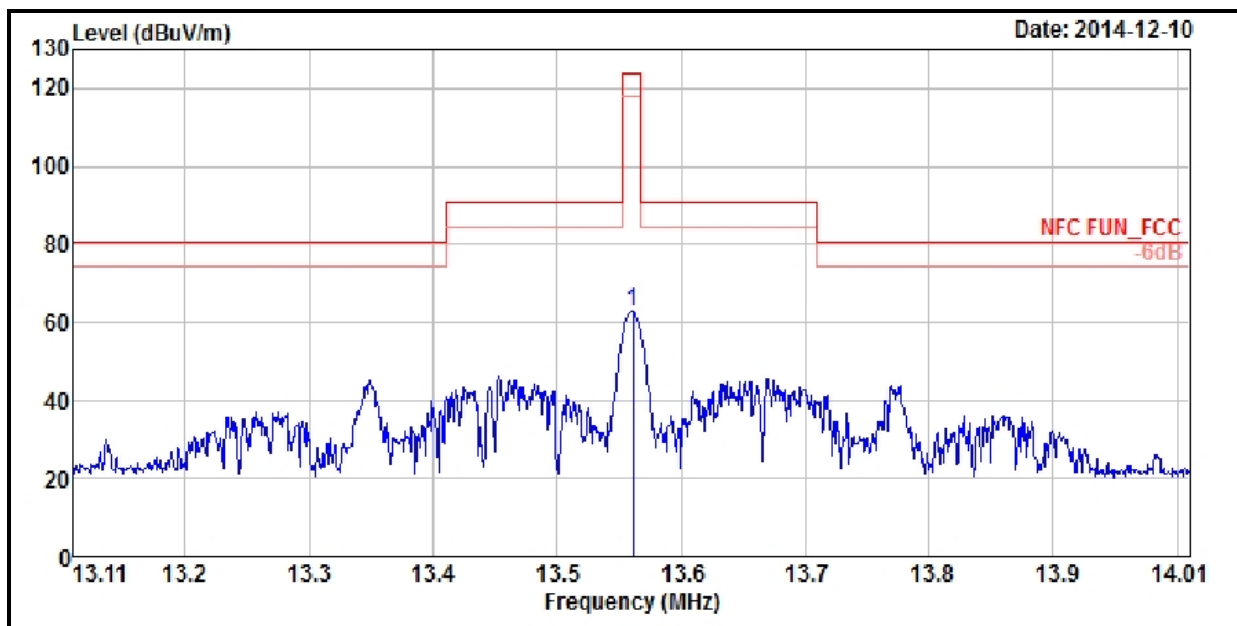
The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

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

MODE D

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.561	62.65	66.03	124	-61.35	41.36	100	360	Peak

REMARKS:

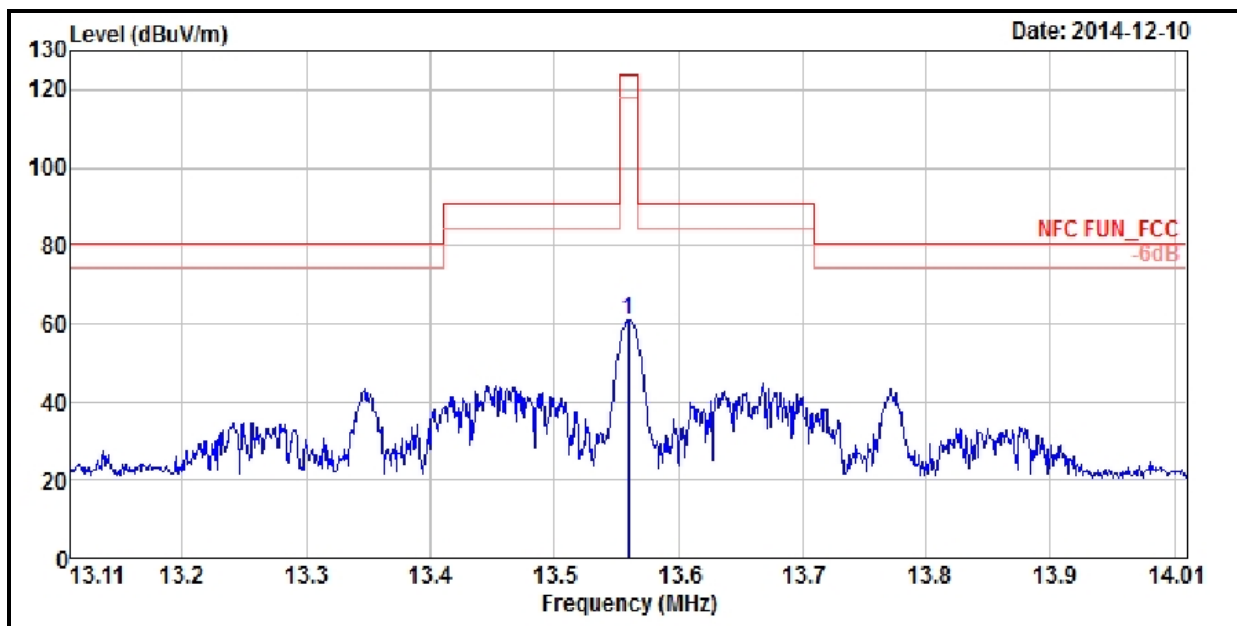
1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. Above limits have been translated by the formula

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:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.56	61.04	64.42	124	-62.96	41.36	100	0	Peak

- REMARKS:**
1. Emission level(dBuV/m)= Read Level (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.
 5. Above limits have been translated by the formula

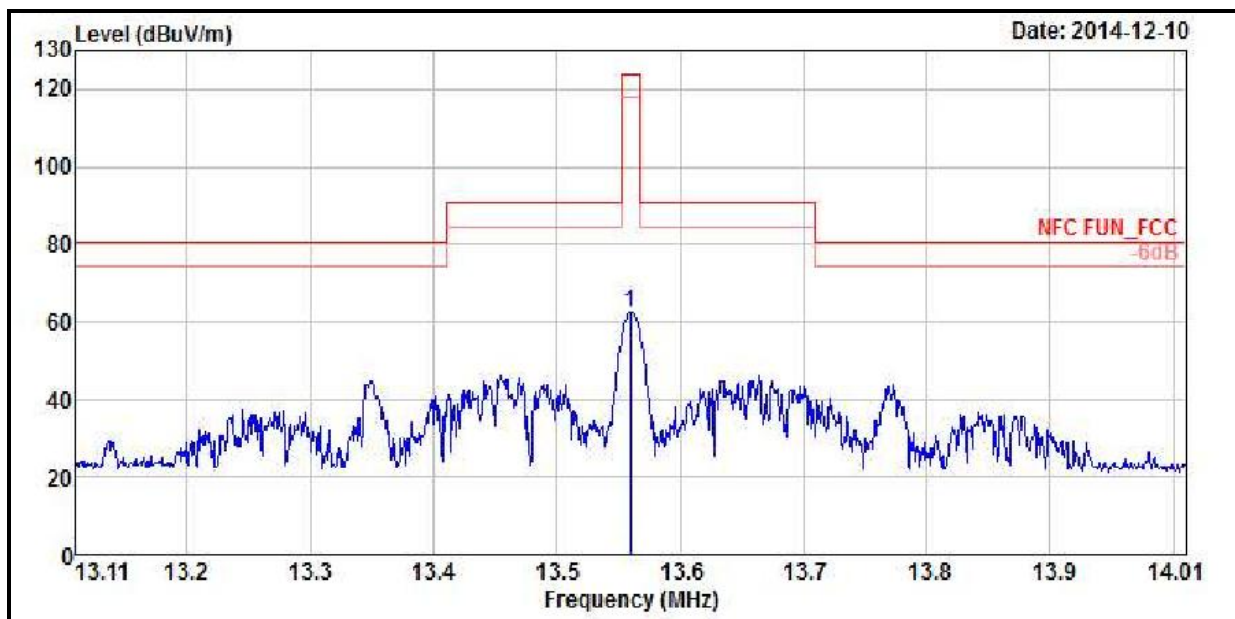
The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

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

MODE E

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.56	62.56	65.94	124	-61.44	41.36	100	0	Peak

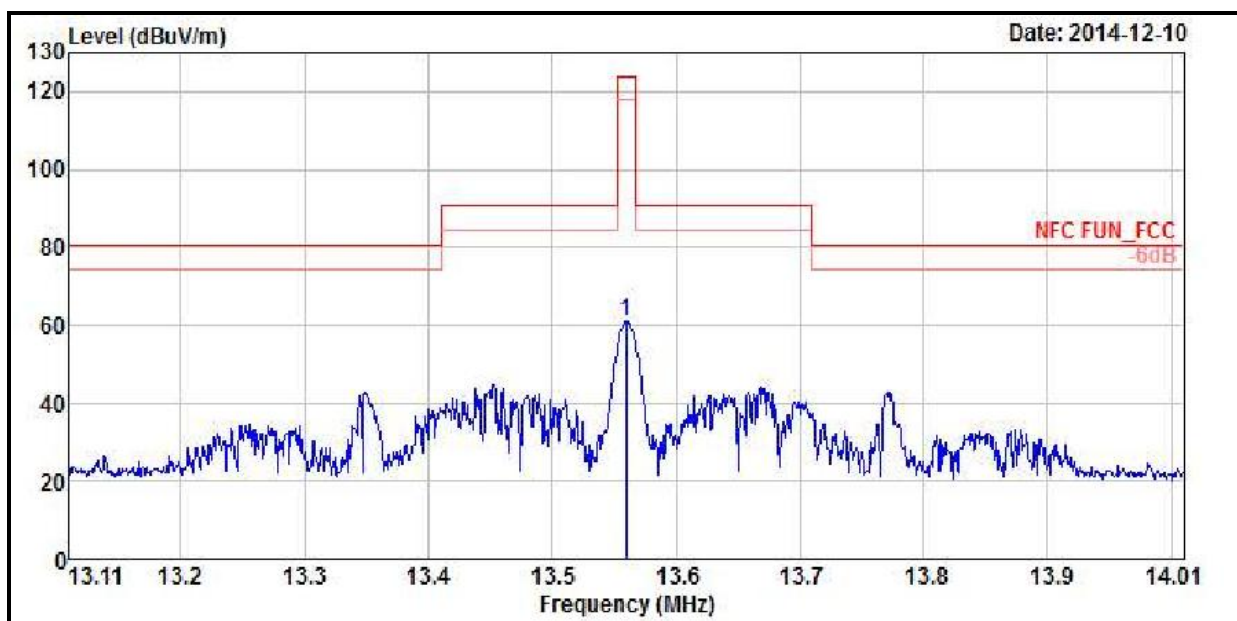
- REMARKS:**
1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated 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:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Toby Tian



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.56	60.81	64.19	124	-63.19	41.36	100	360	Peak

- REMARKS:**
1. Emission level(dBuV/m)= Read Level (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.
 5. Above limits have been translated by the formula

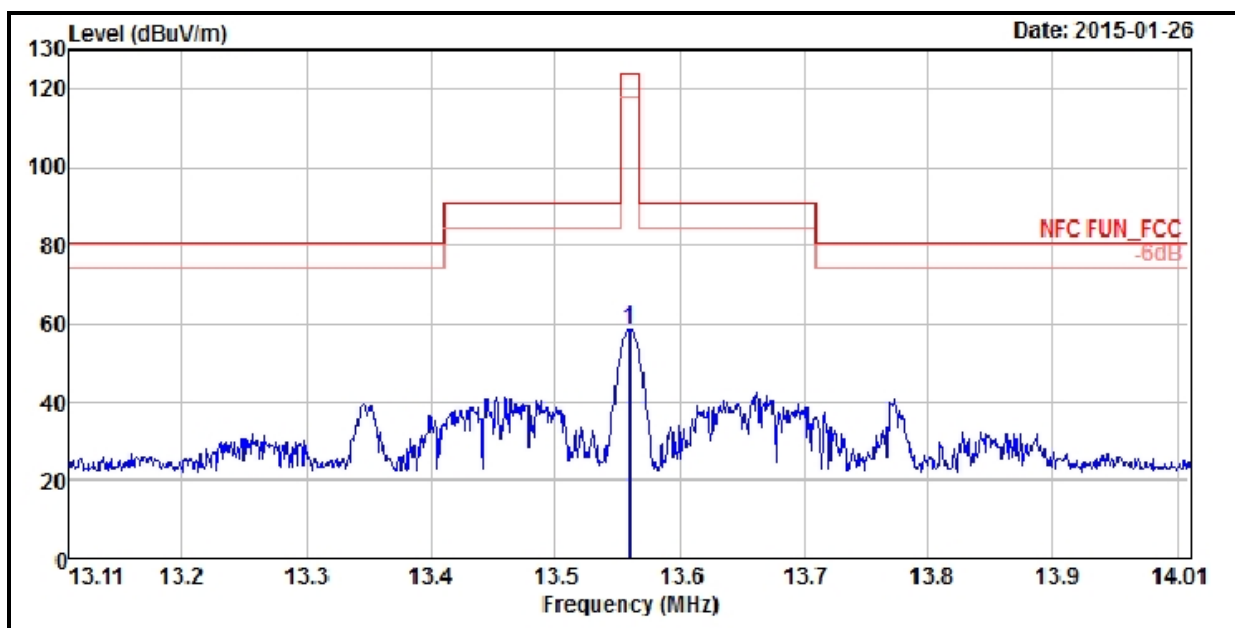
The measured field strength was extrapolated to distance 30 meters, using the formula that the limit of field strength varies as the inverse distance square (40dB per decade of distance)

Example:

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

MODE F

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Gavin Wu



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.56	58.46	61.84	124	-65.54	41.36	100	360	Peak

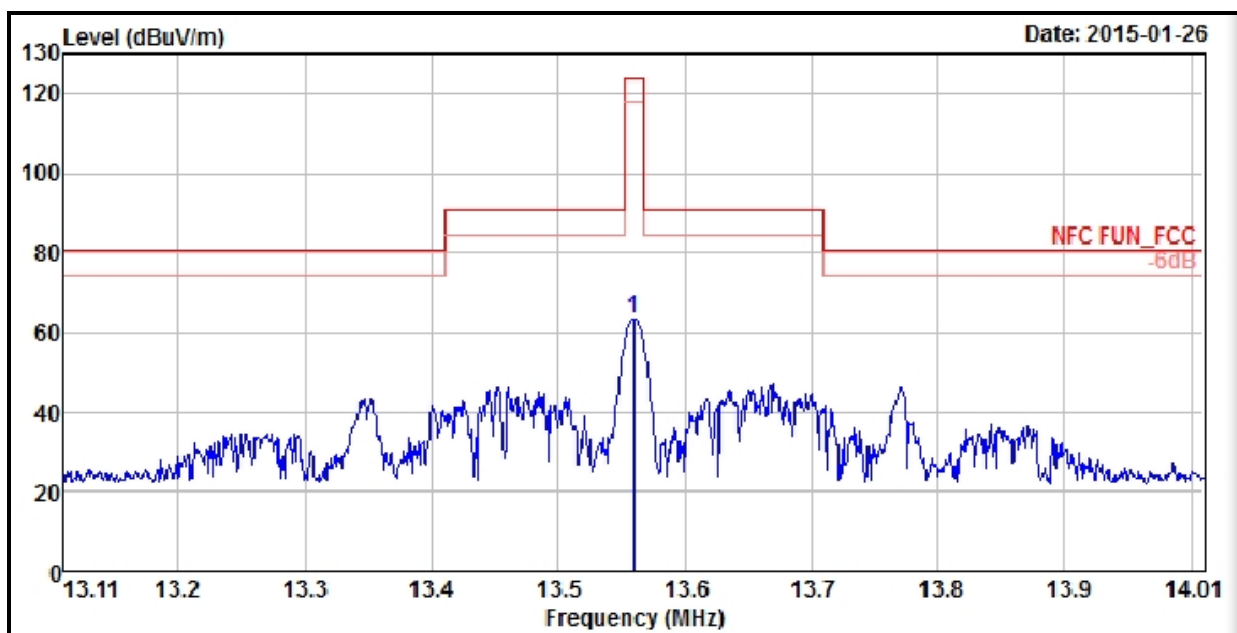
- REMARKS:**
1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.
 5. Above limits have been translated 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:

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

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	13.553 ~ 13.567MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Gavin Wu



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
13.56	63.37	66.75	124	-60.63	41.36	100	0	Peak

REMARKS:

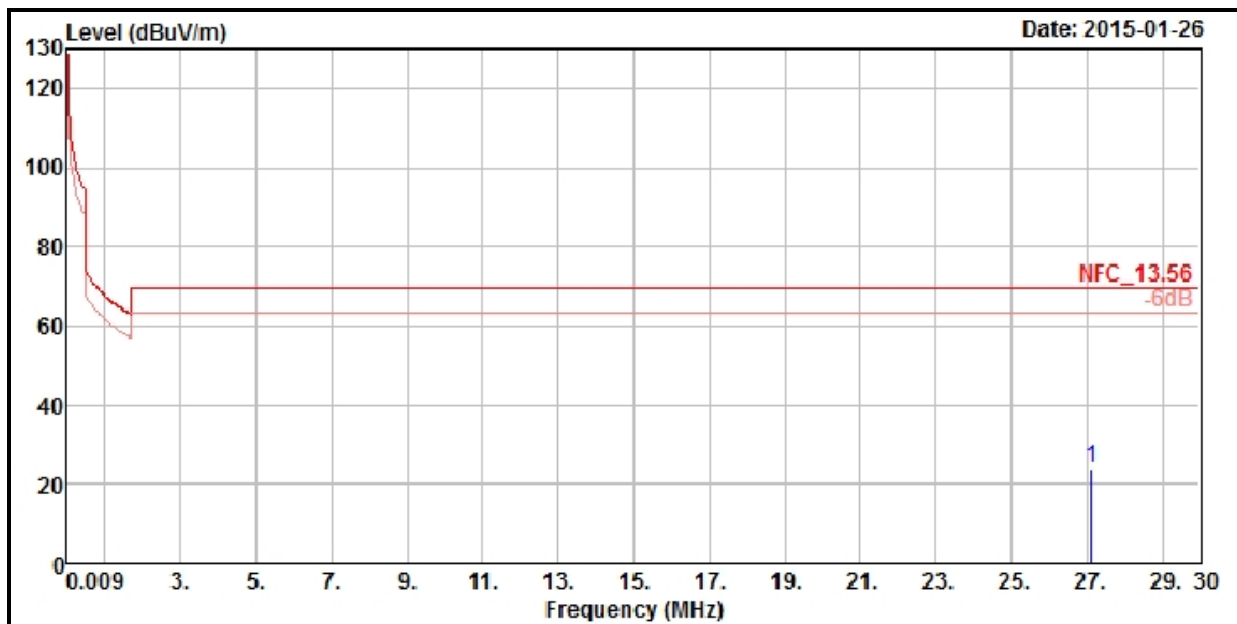
1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
3. The other emission levels were very low against the limit.
4. Margin value = Emission level – Limit value.
5. Above limits have been translated by the formula

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:

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

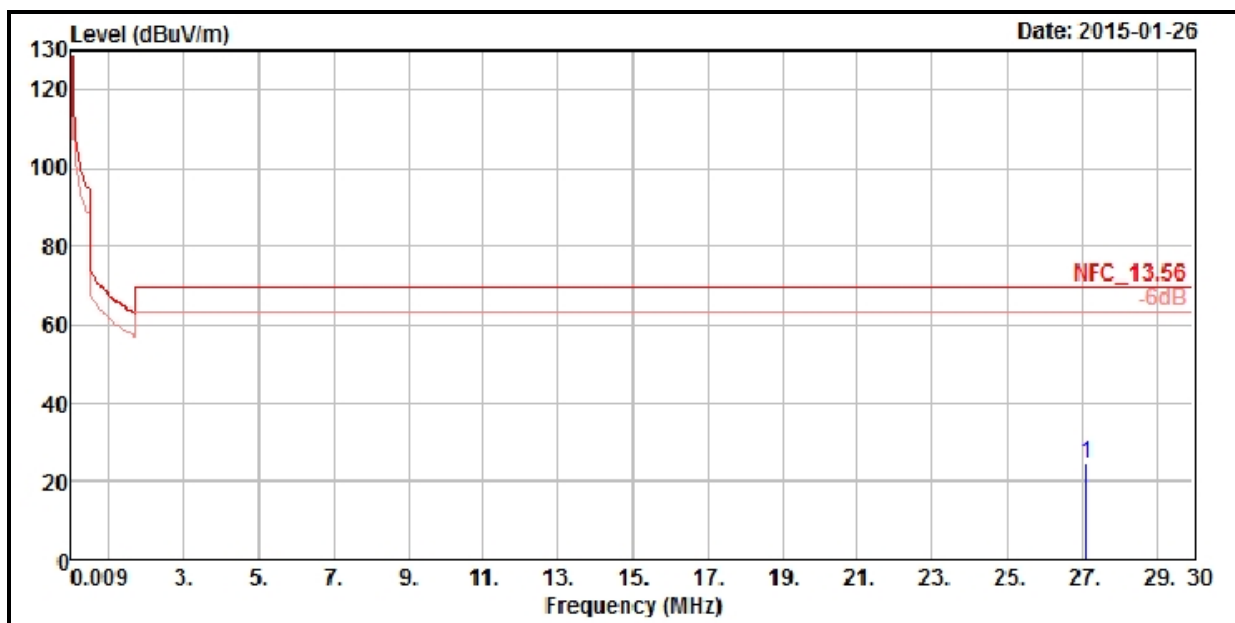
EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 30MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Gavin Wu



ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA OPEN AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
27.121	23.96	29.36	69.54	-45.58	41.33	100	360	Peak

- REMARKS:**
1. Emission level(dBuV/m)= Read Level (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.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	Below 30MHz
INPUT POWER	120Vac, 60Hz	DETECTOR FUNCTION	Peak (PK)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Gavin Wu

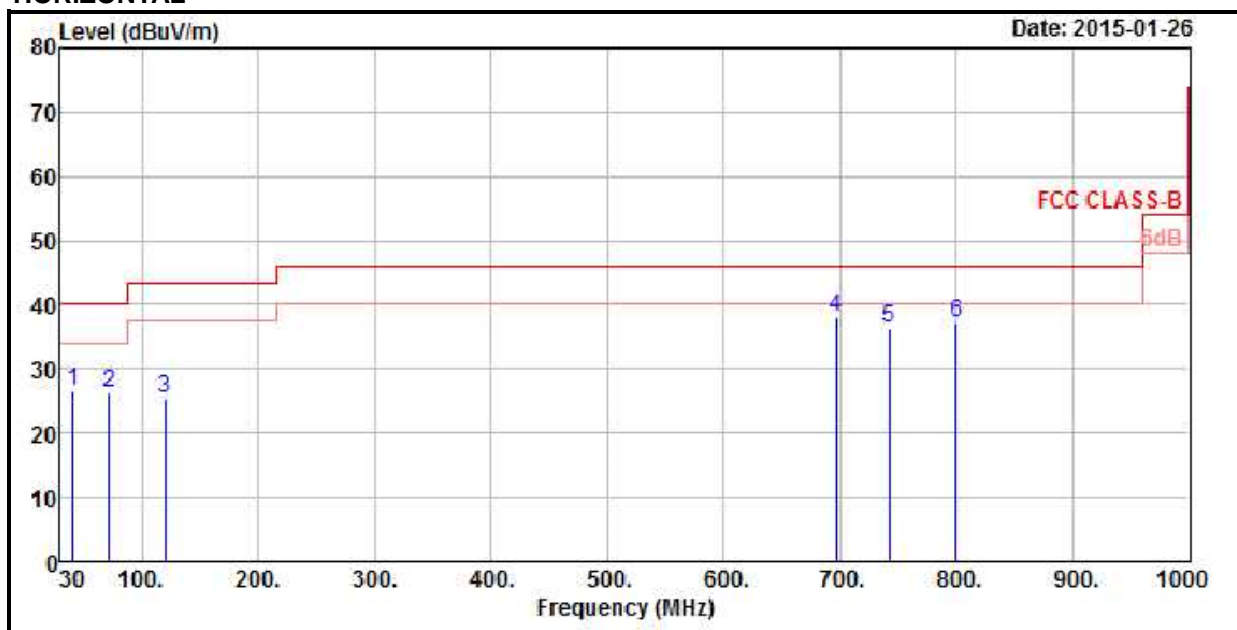


ANTENNA POLARITY & TEST DISTANCE: LOOP ANTENNA CLOSE AT 3M								
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	Correction Factor (dB/m)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
27.121	24.37	29.77	69.54	-45.17	41.33	100	0	Peak

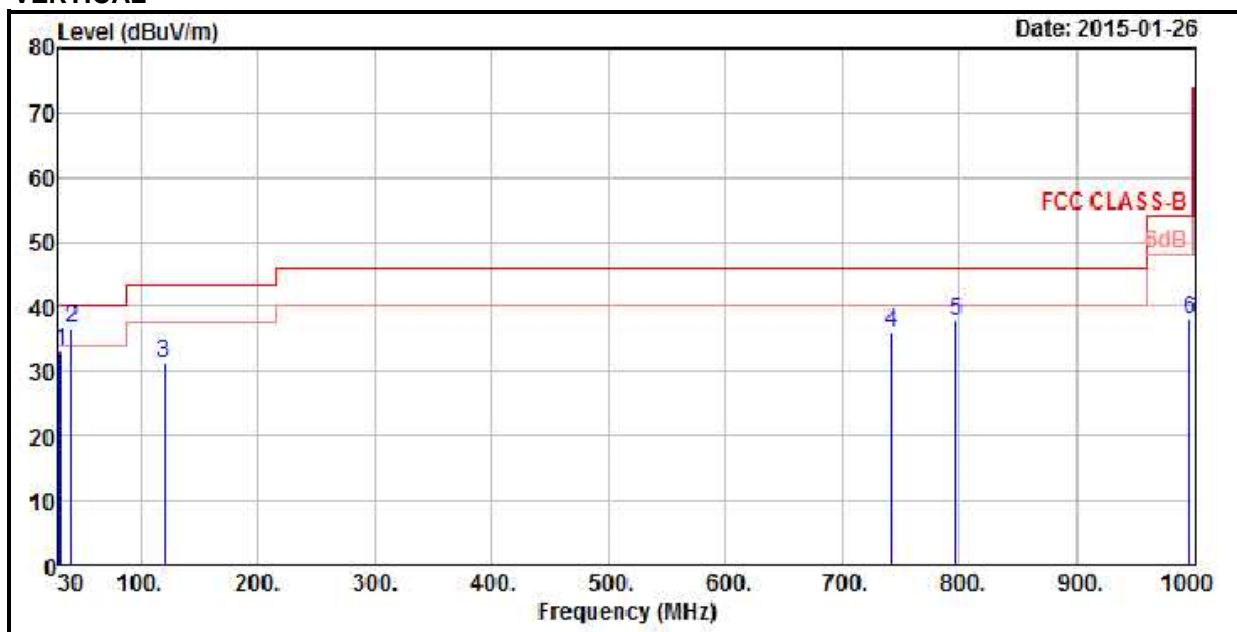
- REMARKS:**
1. Emission level(dBuV/m)= Read Level (dBuV) + Correction Factor(dB/m)
 2. Correction Factor(dB/m) = Antenna Factor (dB/m) + Cable Factor (dB)
 3. The other emission levels were very low against the limit.
 4. Margin value = Emission level – Limit value.

EUT TEST CONDITION		MEASUREMENT DETAIL	
CHANNEL	Channel 1	FREQUENCY RANGE	30MHz ~ 1GHz
INPUT POWER	120Vac, 60 Hz	DETECTOR FUNCTION	Peak (PK) Quasi-peak (QP)
ENVIRONMENTAL CONDITIONS	25deg. C, 65%RH	TESTED BY	Gavin Wu

HORIZONTAL



VERTICAL



ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
40.8	26.59	43.39	40	-13.41	13.55	0.67	31.02	105	201	Peak
71.85	26.18	46.74	40	-13.82	10.29	0.91	31.76	136	192	Peak
119.91	25.31	45	43.5	-18.19	11.02	1.19	31.9	192	187	Peak
696.9	38.07	45.67	46	-7.93	20.78	3.42	31.8	100	92	Peak
742.4	36.44	42.92	46	-9.56	21.41	3.55	31.44	107	115	Peak
799.8	37.08	42.59	46	-8.92	22.23	3.69	31.43	133	269	Peak
ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M										
FREQ. (MHz)	EMISSION LEVEL (dBuV/m)	READ LEVEL (dBuV)	LIMIT (dBuV/m)	MARGIN (dB)	ANTENNA FACTOR (dB/m)	CABLE LOSS (dB)	PREAMP FACTOR (dB)	ANTENNA HEIGHT (cm)	TABLE ANGLE (Degree)	REMARK
31.35	32.95	51.36	40	-7.05	12.14	0.57	31.12	108	82	Peak
40.8	36.68	53.48	40	-3.32	13.55	0.67	31.02	139	127	Peak
119.91	31.23	50.92	43.5	-12.27	11.02	1.19	31.9	172	135	Peak
741.7	35.93	42.41	46	-10.07	21.41	3.55	31.44	103	161	Peak
796.3	37.87	43.43	46	-8.13	22.18	3.68	31.42	150	182	Peak
996.5	38.09	41.64	54	-15.91	24.05	4.16	31.76	218	29	Peak

REMARKS:

1. Emission Level = Read Level + Antenna Factor + Cable Loss - Preamp Factor

Margin value = Emission level – Limit value.

4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

FREQUENCY OF EMISSION (MHz)	CONDUCTED LIMIT (dB μ V)	
	Quasi-peak	Average
0.15 ~ 0.5	66 to 56	56 to 46
0.5 ~ 5	56	46
5 ~ 30	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 0.50 MHz.
3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
Test Receiver ROHDE & SCHWARZ	ESCS30	100288	Apr. 24, 2014	Apr. 23, 2015
RF signal cable Woken	5D-FB	Cable-HYCO2-01	Dec. 27, 2013	Dec. 26, 2014
LISN ROHDE & SCHWARZ (EUT)	ESH2-Z5	100100	Dec. 23, 2013	Dec. 22, 2014
LISN ROHDE & SCHWARZ (Peripheral)	ESH3-Z5	100312	Jul. 10, 2014	Jul. 09, 2015
Software ADT	BV ADT_Cond_ V7.3.7.3	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 2.
3. The VCCI Site Registration No. is C-2047.

4.2.3 TEST PROCEDURES

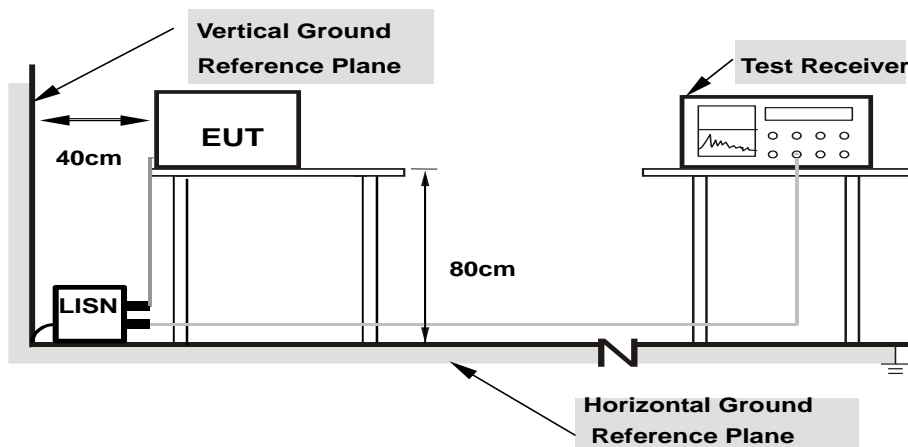
- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance 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: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.2.6 EUT OPERATING CONDITIONS

Same as item 4.1.6.

4.2.7 TEST RESULTS

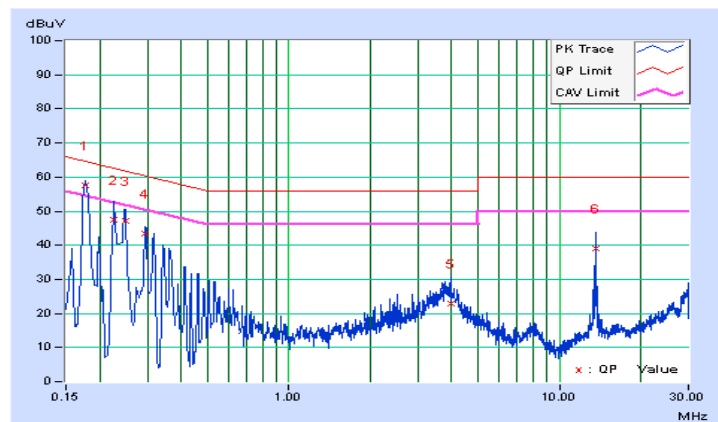
MODE A

PHASE	Line 1	6dB BANDWIDTH	9kHz
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17801	0.07	57.66	42.74	57.73	42.81	64.58	54.58	-6.84	-11.76
2	0.22600	0.07	47.53	27.89	47.60	27.96	62.60	52.60	-14.99	-24.63
3	0.25000	0.07	46.98	29.62	47.05	29.69	61.76	51.76	-14.70	-22.06
4	0.29444	0.07	43.28	27.92	43.35	27.99	60.40	50.40	-17.04	-22.40
5	3.99000	0.23	22.83	13.94	23.06	14.17	56.00	46.00	-32.94	-31.83
6	13.56200	0.70	38.42	38.24	39.12	38.94	60.00	50.00	-20.88	-11.06

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

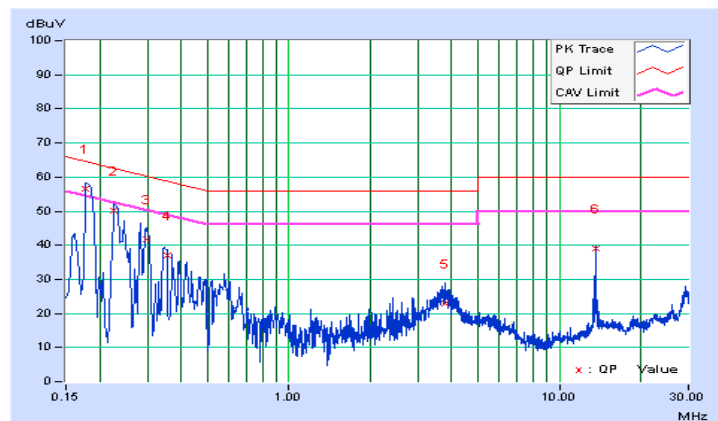


PHASE	Line 2	6dB BANDWIDTH	9kHz
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.17801	0.05	56.45	40.10	56.50	40.15	64.58	54.58	-8.08	-14.43
2	0.22624	0.05	50.16	37.44	50.21	37.49	62.59	52.59	-12.37	-15.09
3	0.29756	0.06	41.71	24.63	41.77	24.69	60.31	50.31	-18.54	-25.62
4	0.35400	0.07	37.02	20.73	37.09	20.80	58.87	48.87	-21.78	-28.07
5	3.78200	0.20	22.78	13.67	22.98	13.87	56.00	46.00	-33.02	-32.13
6	13.56200	0.61	38.53	38.36	39.14	38.97	60.00	50.00	-20.86	-11.03

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



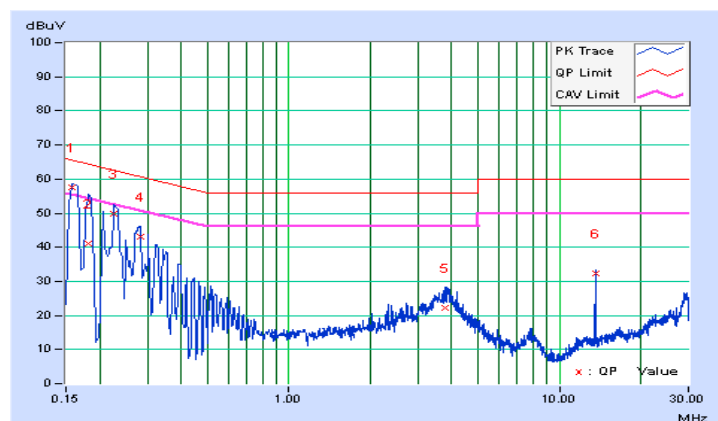
MODE B

PHASE	Line 1	6dB BANDWIDTH	9kHz
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15811	0.08	57.35	42.49	57.43	42.57	65.56	55.56	-8.13	-12.99
2	0.18228	0.07	40.84	16.09	40.91	16.16	64.38	54.38	-23.47	-38.22
3	0.22624	0.07	49.73	37.03	49.80	37.10	62.59	52.59	-12.79	-15.49
4	0.28154	0.07	43.10	28.26	43.17	28.33	60.77	50.77	-17.60	-22.44
5	3.77800	0.22	22.07	13.69	22.29	13.91	56.00	46.00	-33.71	-32.09
6	13.56200	0.70	31.69	31.43	32.39	32.13	60.00	50.00	-27.61	-17.87

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

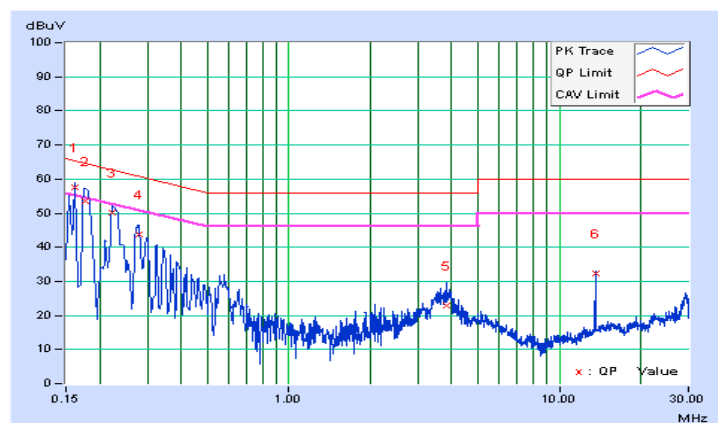


PHASE	Line 2	6dB BANDWIDTH	9kHz
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16200	0.05	57.53	42.64	57.58	42.69	65.36	55.36	-7.78	-12.67
2	0.17800	0.05	53.55	32.37	53.60	32.42	64.58	54.58	-10.98	-22.16
3	0.22211	0.05	50.28	35.30	50.33	35.35	62.74	52.74	-12.41	-17.39
4	0.27786	0.06	43.83	29.06	43.89	29.12	60.88	50.88	-16.99	-21.76
5	3.84600	0.20	22.68	13.42	22.88	13.62	56.00	46.00	-33.12	-32.38
6	13.56200	0.61	31.62	31.32	32.23	31.93	60.00	50.00	-27.77	-18.07

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



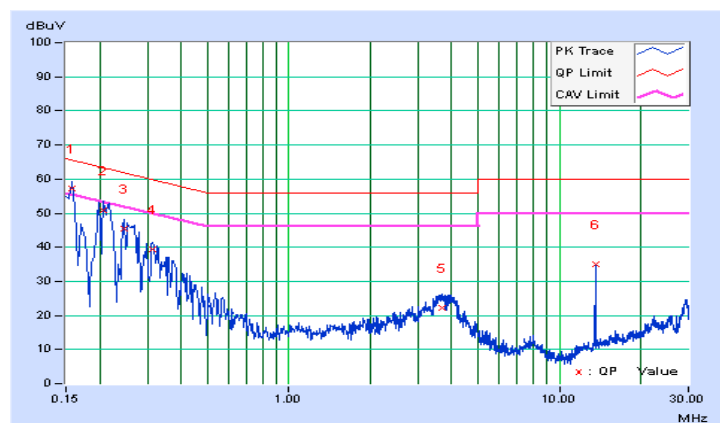
MODE C

PHASE	Line 1	6dB BANDWIDTH	9kHz
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15800	0.08	57.09	42.25	57.17	42.33	65.57	55.57	-8.40	-13.24
2	0.20600	0.07	50.76	35.45	50.83	35.52	63.37	53.37	-12.53	-17.84
3	0.24600	0.07	45.33	30.05	45.40	30.12	61.89	51.89	-16.49	-21.77
4	0.31200	0.08	39.18	23.12	39.26	23.20	59.92	49.92	-20.66	-26.72
5	3.68200	0.22	21.97	14.26	22.19	14.48	56.00	46.00	-33.81	-31.52
6	13.56200	0.70	34.48	34.31	35.18	35.01	60.00	50.00	-24.82	-14.99

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

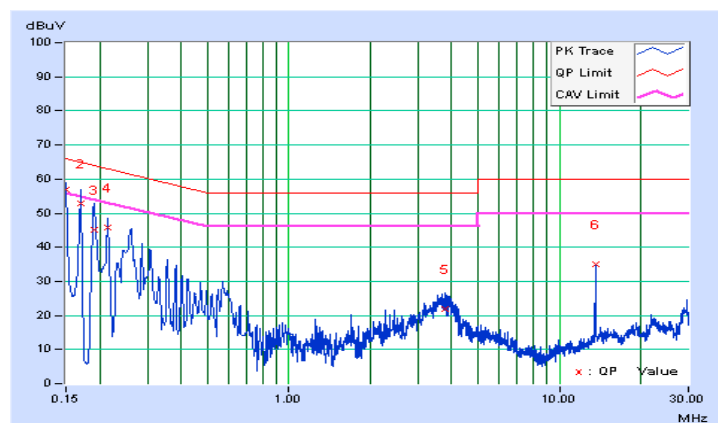


PHASE	Line 2	6dB BANDWIDTH	9kHz
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.05	56.90	37.75	56.95	37.80	66.00	56.00	-9.05	-18.20
2	0.17000	0.05	52.65	30.72	52.70	30.77	64.96	54.96	-12.26	-24.19
3	0.19000	0.05	45.08	22.22	45.13	22.27	64.04	54.04	-18.91	-31.77
4	0.21406	0.05	45.83	25.02	45.88	25.07	63.05	53.05	-17.16	-27.97
5	3.76600	0.20	21.70	13.28	21.90	13.48	56.00	46.00	-34.10	-32.52
6	13.56200	0.61	34.44	34.25	35.05	34.86	60.00	50.00	-24.95	-15.14

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



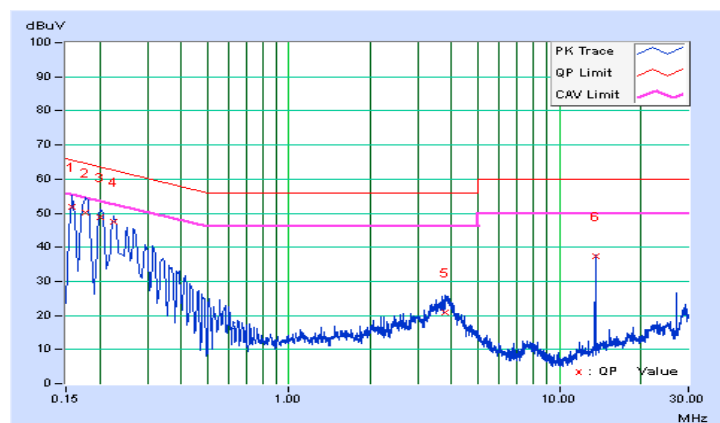
MODE D

PHASE	Line 1	6dB BANDWIDTH	9kHz
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15811	0.08	51.79	31.40	51.87	31.48	65.56	55.56	-13.69	-24.08
2	0.17801	0.07	50.10	29.74	50.17	29.81	64.58	54.58	-14.40	-24.76
3	0.20148	0.07	48.69	33.88	48.76	33.95	63.55	53.55	-14.79	-19.60
4	0.22505	0.07	47.42	33.95	47.49	34.02	62.63	52.63	-15.14	-18.61
5	3.77400	0.22	20.59	12.54	20.81	12.76	56.00	46.00	-35.19	-33.24
6	13.56200	0.70	36.55	36.43	37.25	37.13	60.00	50.00	-22.75	-12.87

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

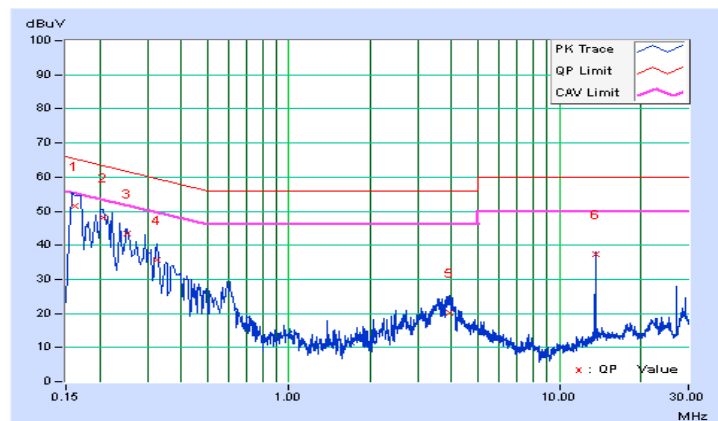


PHASE	Line 2	6dB BANDWIDTH	9kHz
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.16200	0.05	51.61	30.39	51.66	30.44	65.36	55.36	-13.70	-24.92
2	0.20600	0.05	48.12	32.70	48.17	32.75	63.37	53.37	-15.19	-20.61
3	0.25139	0.06	43.32	30.18	43.38	30.24	61.71	51.71	-18.34	-21.48
4	0.32544	0.06	35.78	20.60	35.84	20.66	59.57	49.57	-23.72	-28.90
5	3.91800	0.21	20.11	11.57	20.32	11.78	56.00	46.00	-35.68	-34.22
6	13.56200	0.61	36.67	36.57	37.28	37.18	60.00	50.00	-22.72	-12.82

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



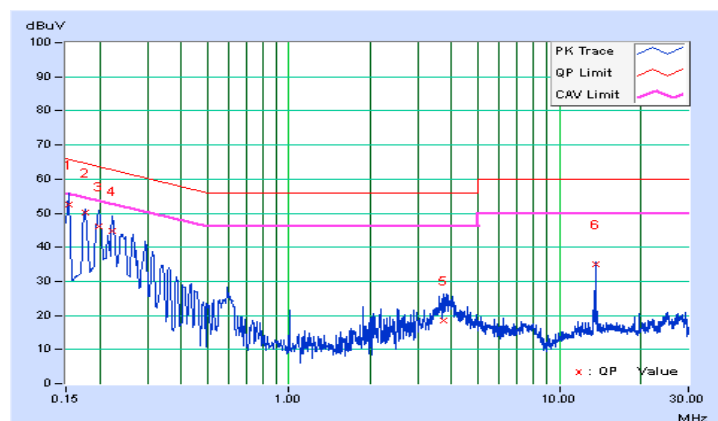
MODE F

PHASE	Line 1	6dB BANDWIDTH	9kHz
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Phase Of Power : Line (L)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15400	0.08	52.44	34.57	52.52	34.65	65.78	55.78	-13.26	-21.13
2	0.17801	0.07	50.19	34.81	50.26	34.88	64.58	54.58	-14.31	-19.69
3	0.19832	0.07	45.98	26.67	46.05	26.74	63.68	53.68	-17.63	-26.94
4	0.22211	0.07	44.57	27.80	44.64	27.87	62.74	52.74	-18.10	-24.87
5	3.73800	0.22	18.32	10.96	18.54	11.18	56.00	46.00	-37.46	-34.82
6	13.56200	0.70	34.41	34.07	35.11	34.77	60.00	50.00	-24.89	-15.23

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

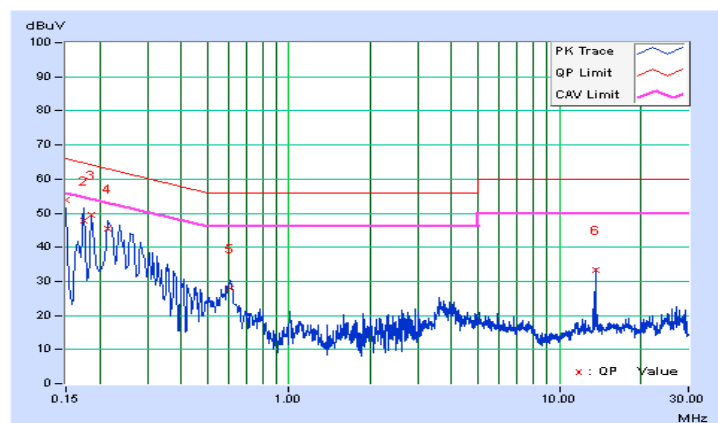


PHASE	Line 2	6dB BANDWIDTH	9kHz
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Phase Of Power : Neutral (N)										
No	Frequency (MHz)	Correction Factor (dB)	Reading Value (dBuV)		Emission Level (dBuV)		Limit (dBuV)		Margin (dB)	
			Q.P.	AV.	Q.P.	AV.	Q.P.	AV.	Q.P.	AV.
1	0.15000	0.05	53.87	38.24	53.92	38.29	66.00	56.00	-12.08	-17.71
2	0.17400	0.05	47.80	25.50	47.85	25.55	64.77	54.77	-16.92	-29.22
3	0.18568	0.05	49.55	33.46	49.60	33.51	64.23	54.23	-14.63	-20.72
4	0.21350	0.05	45.44	29.58	45.49	29.63	63.07	53.07	-17.58	-23.44
5	0.61000	0.08	27.79	19.72	27.87	19.80	56.00	46.00	-28.13	-26.20
6	13.56200	0.61	32.71	32.36	33.32	32.97	60.00	50.00	-26.68	-17.03

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 INSTRUMENTS

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	DATE OF CALIBRATION	DUE DATE OF CALIBRATION
R&S SPECTRUM ANALYZER	FSU43	101261	Dec. 21, 2013	Dec. 20, 2014
Temperature & Humidity Chamber	GTH-120-40-CP-AR	MAA1306-019	Sep. 01, 2014	Aug. 31, 2015

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

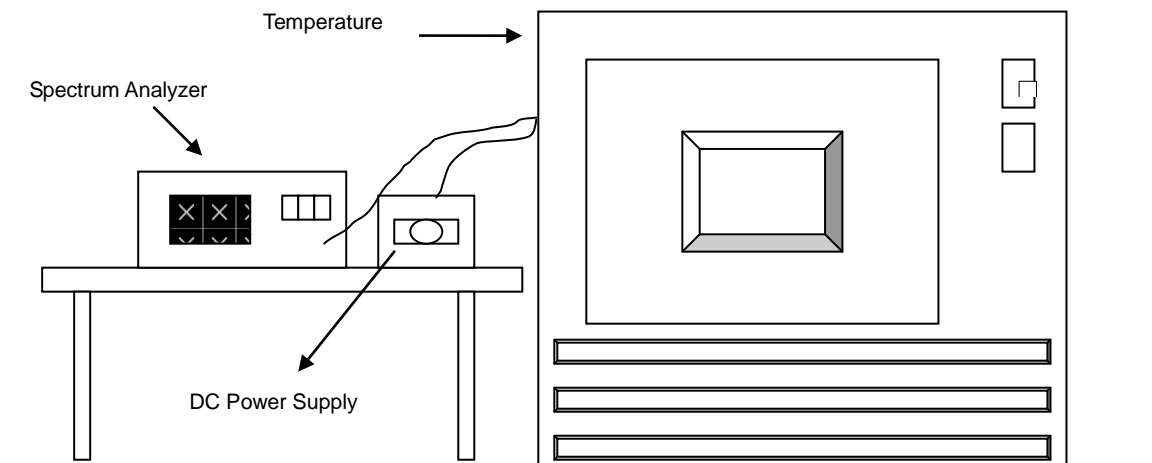
4.3.3 TEST PROCEDURE

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 minutes.
- Repeat 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% range and the frequency record.

4.3.4 DEVIATION FROM TEST STANDARD

No deviation.

4.3.5 TEST SETUP



4.3.6 EUT OPERATING CONDITION

Same as item 4.1.6.

4.3.7 TEST RESULTS

MODE A

FREQUENCY STABILITY VERSUS TEMP.									
TEMP. (°C)	POWER SUPPLY (Vdc)	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	3.7	13.560052	0.00038	13.560026	0.00019	13.560042	0.00031	13.560028	0.00021
40	3.7	13.559985	-0.00011	13.559991	-0.00007	13.559986	-0.00010	13.559984	-0.00012
30	3.7	13.560071	0.00052	13.560059	0.00044	13.560059	0.00044	13.560079	0.00058
20	3.7	13.55993	-0.00052	13.55993	-0.00052	13.559956	-0.00032	13.559943	-0.00042
10	3.7	13.560025	0.00018	13.560024	0.00018	13.560013	0.00010	13.560001	0.00001
0	3.7	13.559984	-0.00012	13.559995	-0.00004	13.559989	-0.00008	13.559991	-0.00007
-10	3.7	13.560038	0.00028	13.560047	0.00035	13.56004	0.00029	13.560037	0.00027
-20	3.7	13.560001	0.00001	13.560002	0.00001	13.559995	-0.00004	13.560013	0.00010
-30	3.7	13.559942	-0.0004	13.559944	-0.0004	13.559961	-0.0003	13.559947	-0.0004

FREQUENCY STABILITY VERSUS VOLTAGE									
TEMP. (°C)	POWER SUPPLY (Vdc)	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	4.2	13.55993	-0.00052	13.55993	-0.00052	13.559955	-0.00033	13.559944	-0.00041
	3.7	13.55993	-0.00052	13.55993	-0.00052	13.559956	-0.00032	13.559943	-0.00042
	3.4	13.55993	-0.00052	13.559931	-0.00051	13.559954	-0.00034	13.559943	-0.00042

MODE B

FREQUENCY STABILITY VERSUS TEMP.									
TEMP. (°C)	POWER SUPPLY (Vdc)	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	3.7	13.559994	-0.00004	13.560009	0.00007	13.560005	0.00004	13.559987	-0.00010
40	3.7	13.559968	-0.00024	13.559968	-0.00024	13.559979	-0.00015	13.559975	-0.00018
30	3.7	13.560038	0.00028	13.560038	0.00028	13.560027	0.00020	13.560039	0.00029
20	3.7	13.559923	-0.00057	13.559926	-0.00055	13.559922	-0.00058	13.559937	-0.00046
10	3.7	13.56004	0.00029	13.560029	0.00021	13.560048	0.00035	13.56003	0.00022
0	3.7	13.56004	0.00029	13.560057	0.00042	13.560036	0.00027	13.560035	0.00026
-10	3.7	13.560035	0.00026	13.560026	0.00019	13.560036	0.00027	13.560022	0.00016
-20	3.7	13.559988	-0.00009	13.559982	-0.00013	13.559998	-0.00001	13.559989	-0.00008
-30	3.7	13.560072	0.0005	13.560082	0.0006	13.560069	0.0005	13.560063	0.0005

FREQUENCY STABILITY VERSUS VOLTAGE									
TEMP. (°C)	POWER SUPPLY (Vdc)	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	4.2	13.559927	-0.00054	13.559928	-0.00053	13.559923	-0.00057	13.559938	-0.00046
	3.7	13.559923	-0.00057	13.559926	-0.00055	13.559922	-0.00058	13.559937	-0.00046
	3.4	13.559923	-0.00057	13.55993	-0.00052	13.55992	-0.00059	13.559936	-0.00047

MODE C

FREQUENCY STABILITY VERSUS TEMP.									
TEMP. (°C)	POWER SUPPLY (Vdc)	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	3.7	13.560019	0.00014	13.560014	0.00010	13.56002	0.00015	13.560027	0.00020
40	3.7	13.560037	0.00027	13.560029	0.00021	13.560033	0.00024	13.560019	0.00014
30	3.7	13.560043	0.00032	13.560045	0.00033	13.560031	0.00023	13.560029	0.00021
20	3.7	13.560051	0.00038	13.560066	0.00049	13.560065	0.00048	13.560065	0.00048
10	3.7	13.560037	0.00027	13.560015	0.00011	13.560023	0.00017	13.560016	0.00012
0	3.7	13.560017	0.00013	13.56001	0.00007	13.560015	0.00011	13.560029	0.00021
-10	3.7	13.560006	0.00004	13.560025	0.00018	13.560006	0.00004	13.560016	0.00012
-20	3.7	13.560046	0.00034	13.56004	0.00029	13.560061	0.00045	13.560043	0.00032
-30	3.7	13.559961	-0.0003	13.55996	-0.0003	13.559956	-0.0003	13.559959	-0.0003

FREQUENCY STABILITY VERSUS VOLTAGE									
TEMP. (°C)	POWER SUPPLY (Vdc)	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	4.2	13.560051	0.00038	13.560068	0.00050	13.560065	0.00048	13.560065	0.00048
	3.7	13.560051	0.00038	13.560066	0.00049	13.560065	0.00048	13.560065	0.00048
	3.4	13.56005	0.00037	13.560065	0.00048	13.560066	0.00049	13.560067	0.00049

MODE D

FREQUENCY STABILITY VERSUS TEMP.									
TEMP. (°C)	POWER SUPPLY (Vdc)	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	3.7	13.559968	-0.00024	13.559975	-0.00018	13.559973	-0.00020	13.559991	-0.00007
40	3.7	13.559962	-0.00028	13.559966	-0.00025	13.55997	-0.00022	13.559963	-0.00027
30	3.7	13.559962	-0.00028	13.559959	-0.00030	13.559959	-0.00030	13.559955	-0.00033
20	3.7	13.560063	0.00046	13.560068	0.00050	13.56007	0.00052	13.560046	0.00034
10	3.7	13.560009	0.00007	13.560018	0.00013	13.560035	0.00026	13.560023	0.00017
0	3.7	13.559971	-0.00021	13.559949	-0.00038	13.55995	-0.00037	13.559969	-0.00023
-10	3.7	13.56004	0.00029	13.560046	0.00034	13.560039	0.00029	13.560045	0.00033
-20	3.7	13.559987	-0.00010	13.559984	-0.00012	13.559998	-0.00001	13.559986	-0.00010
-30	3.7	13.559976	-0.0002	13.559976	-0.0002	13.559984	-0.0001	13.559982	-0.0001

FREQUENCY STABILITY VERSUS VOLTAGE									
TEMP. (°C)	POWER SUPPLY (Vdc)	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	4.2	13.560065	0.00048	13.560063	0.00046	13.560073	0.00054	13.560048	0.00035
	3.7	13.560063	0.00046	13.560068	0.00050	13.56007	0.00052	13.560046	0.00034
	3.4	13.560065	0.00048	13.560066	0.00049	13.560073	0.00054	13.56005	0.00037

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 INSTRUMENTS

Same as item 4.1.2.

4.4.3 TEST PROCEDURE

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.

4.4.4 DEVIATION FROM TEST STANDARD

No deviation.

4.4.5 TEST SETUP

Same as item 4.1.5.

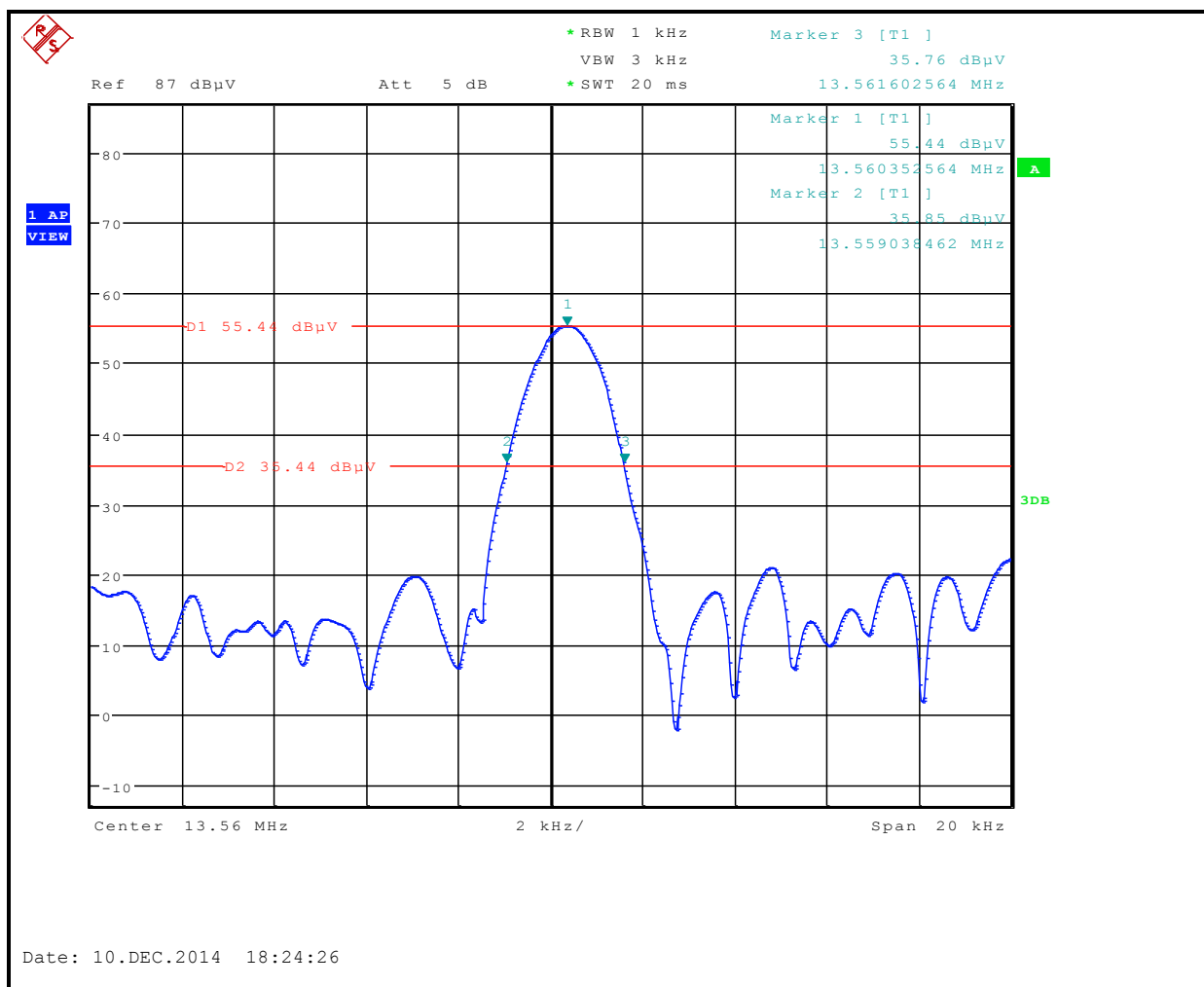
4.4.6 EUT OPERATING CONDITION

Same as item 4.1.6.

4.4.7 TEST RESULTS

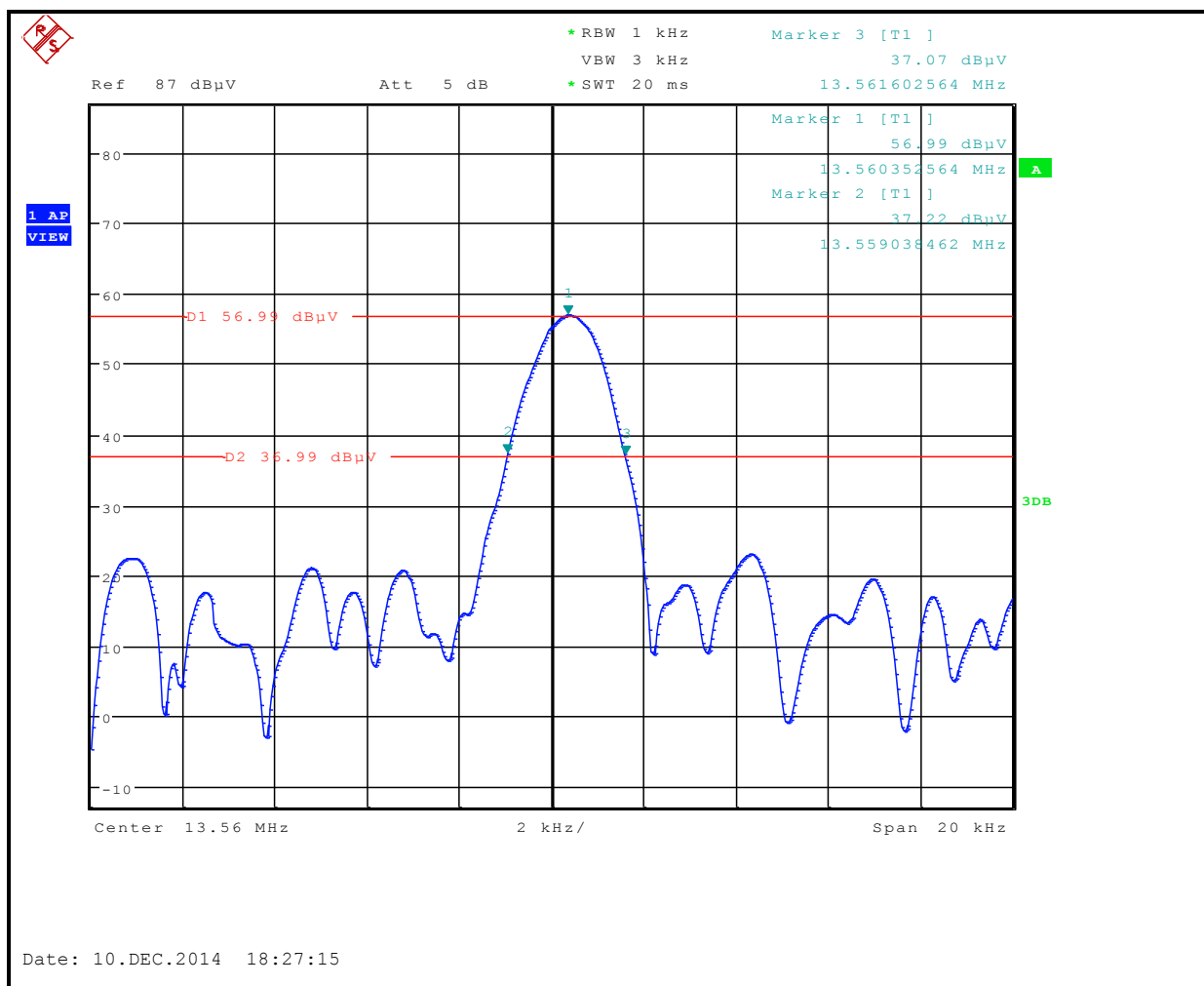
MODE A

20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	PASS/FAIL
13.560352564MHz	13.559036462 MHz	13.553~13.567	PASS



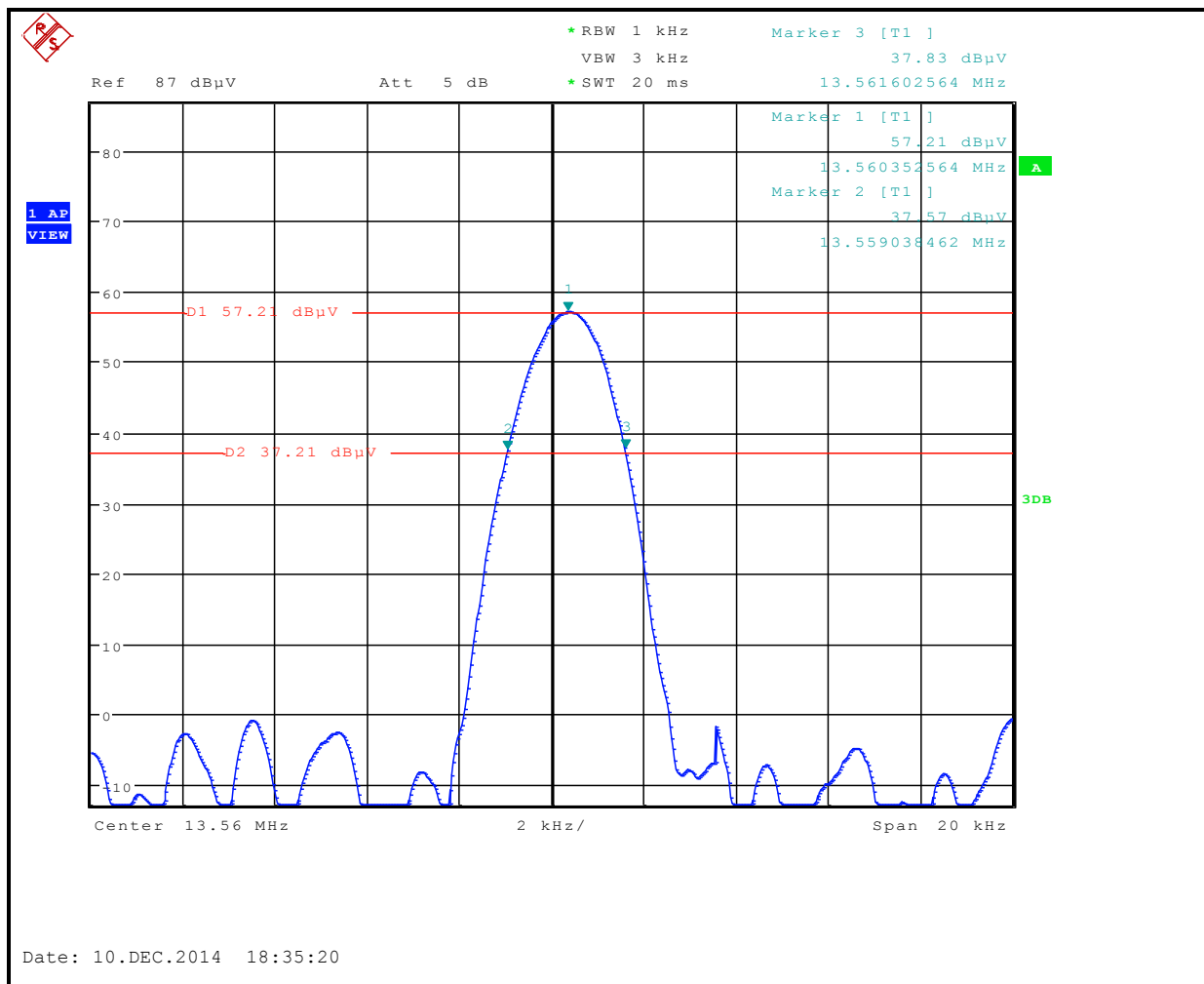
MODE B

20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	PASS/FAIL
13.560352564MHz	13.559036462 MHz	13.553~13.567	PASS



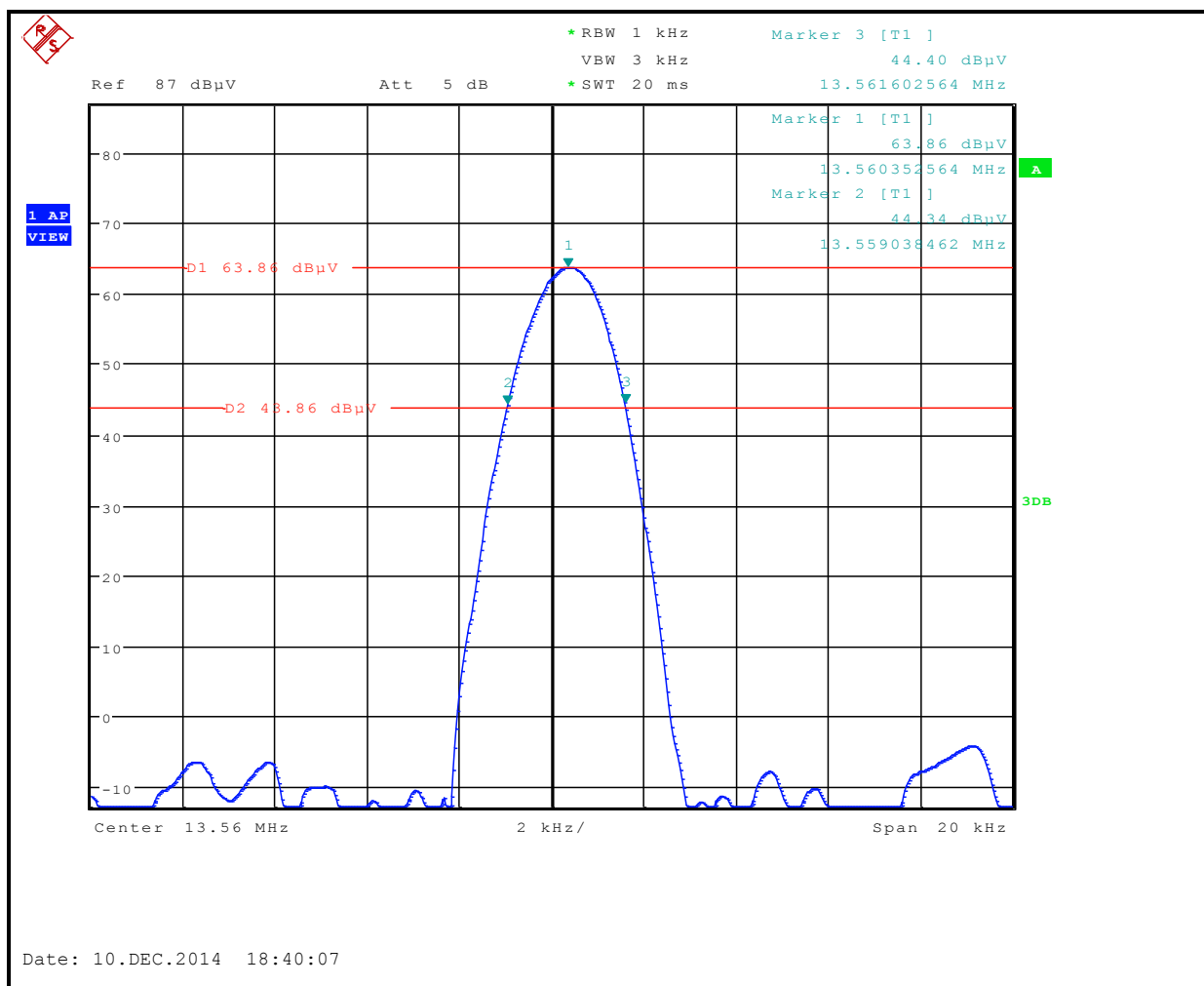
MODE C

20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	PASS/FAIL
13.560352564MHz	13.559036462 MHz	13.553~13.567	PASS



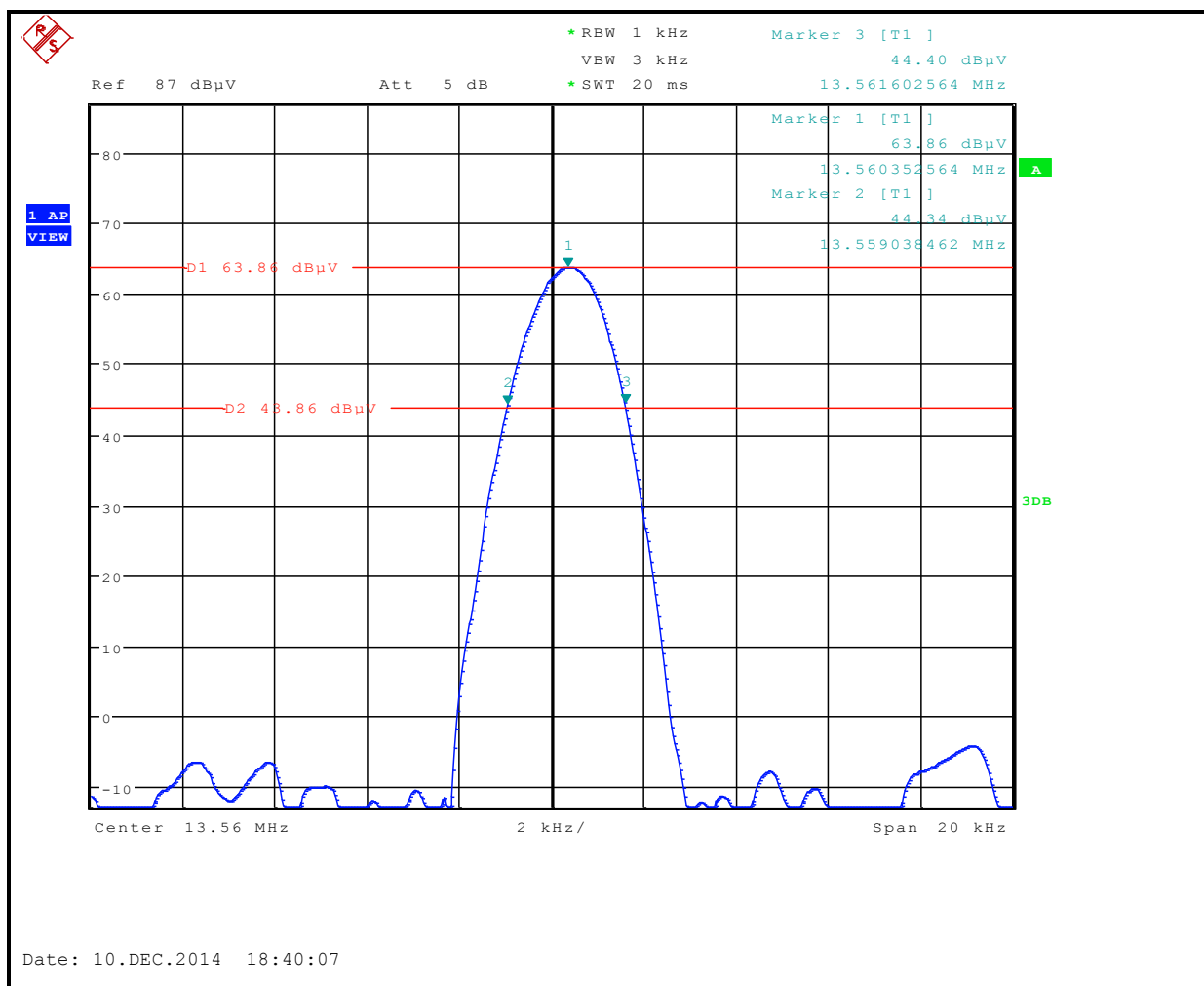
MODE D

20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	PASS/FAIL
13.560352564MHz	13.559036462 MHz	13.553~13.567	PASS



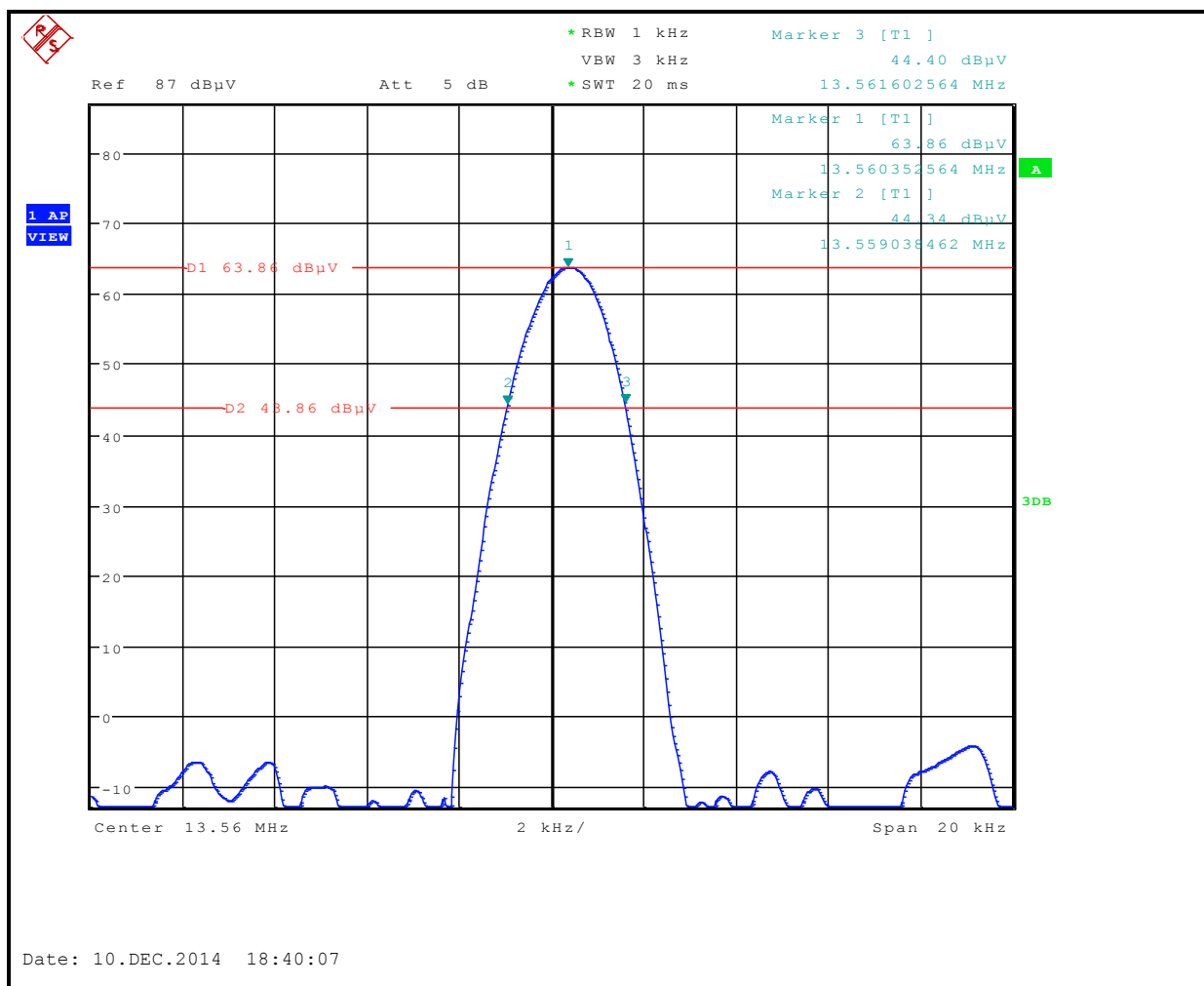
MODE E

20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	PASS/FAIL
13.560352564MHz	13.559036462 MHz	13.553~13.567	PASS



MODE F

20dBc point (Low)	20dBc point (High)	Operating frequency band (MHz)	PASS/FAIL
13.560352564MHz	13.559036462 MHz	13.553~13.567	PASS



5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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6. INFORMATION ON 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:

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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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7. APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

No any modifications are made to the EUT by the lab during the test.

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