

FCC
RF
TEST REPORT

ISSUED BY
Shenzhen BALUN Technology Co., Ltd.



FOR
Baby Monitor

ISSUED TO
Staring Caring Limited

Unit 1015,10/F, Technology Park, 18 On Lai Street, Shatin, HK



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Date Dec 16, 2014

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Date Dec 16, 2014

Report No.: BL-SZ14B0095-602

EUT Type: Baby Monitor

Model Name: 1116

Brand Name: Starian

Test Standard: 47 CFR Part 15 Subpart C

FCC ID: 2AA9G-1116B

Test conclusion: PASS

Test Date: Nov 20, 2014 ~ Dec 15, 2014

Date of Issue: Dec 16, 2014

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Dec 16, 2014</u>	<u>Initial Issue</u>

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1 ADMINISTRATIVE DATA (GENERAL INFORMATION)

1.1 Identification of the Testing Laboratory

Company Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6683 3402
Fax Number	+86 755 6182 4271

1.2 Identification of the Responsible Testing Location

Test Location	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1st FL, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Accreditation Certificate	The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 11524A-1. The laboratory has been listed by US Federal Communications Commission to perform electromagnetic emission measurements. The recognition numbers of test site are 832625. The laboratory has met the requirements of the IAS Accreditation Criteria for Testing Laboratories (AC89), has demonstrated compliance with ISO/IEC Standard 17025:2005. The accreditation certificate number is TL-588. The laboratory is a testing organization accredited by China National Accreditation Service for Conformity Assessment (CNAS) according to ISO/IEC 17025. The accreditation certificate number is L6791.
Description	All measurement facilities used to collect the measurement data are located at Block B, FL 1, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China 518055

1.3 Announce

- (1) The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
- (2) The test report is invalid if there is any evidence and/or falsification.
- (3) The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein.
- (4) This document may not be altered or revised in any way unless done so by BALUN and all revisions are duly noted in the revisions section.
- (5) Content of the test report, in part or in full, cannot be used for publicity and/or promotional purposes without prior written approval from the laboratory.

2 PRODUCT INFORMATION

2.1 Applicant

Applicant	Staring Caring Limited
Address	Unit 1015,10/F, Technology Park, 18 On Lai Street, Shatin, HK

2.2 Manufacturer

Manufacturer	Staring Caring Limited
Address	Unit 1015,10/F, Technology Park, 18 On Lai Street, Shatin, HK

2.3 General Description for Equipment under Test (EUT)

EUT Type	Baby Monitor
Model Name	1116
Hardware Version	N/A
Software Version	N/A
Network and Wireless connectivity	Zigbee
About the Product	The equipment is Baby monitor, operating at 2.4GHz ISM band, the equipment includes Baby part and Parent part, Only the Parent part was tested in this report. 

2.4 Technical Information

Modulation Technology	DSSS(IEEE802.15.4)
Modulation Type	O-QPSK
Transfer Rate	250kbps
Frequency Range	The frequency range used is 2413MHz - 2468MHz; The frequency block is 2400MHz to 2483.5MHz.
Number of channel	12 (at intervals of 5MHz)
Tested Channel	1 (2413MHz), 6 (2438MHz), 12 (2468MHz).
Antenna Type	Dipole Antenna
Antenna Gain	0 dBi

Note: The above EUT information in section 2.3 and 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

2.5 Ancillary Equipment

Ancillary Equipment 1	Charger	
	Brand Name	N/A
	Model No	TGL050P055
	Serial No	N/A
	Rated Input	~ 100-240V, 100mA, 50/60Hz
	Rated Output	= 5V, 550mA

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C (10-1-13 Edition)	Miscellaneous Wireless Communications Services
2	KDB Publication 558074 D01v03r02	Guidance for Performing Compliance Measurements on Digital Transmission Systems (DTS) Operating Under §15.247
3	ANSI C63.4-2014	American National Standard for Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
4	ANSI C63.10-2013	American National Standard for Testing Unlicensed Wireless Devices

3.2 Verdict

No.	Description	FCC Part No.	Test Result	Verdict
1	Antenna Requirement	15.203 15.247(b)	Note1	PASS
2	Output Power	15.247(b)	ANNEX A.1	PASS
3	6dB Bandwidth	15.247(a)	ANNEX A.2	PASS
4	Conducted Spurious Emission	15.247(d)	ANNEX A.3	PASS
5	Conducted Emission	15.207	ANNEX A.4	PASS
6	Radiated Spurious Emission	15.209 15.247(d)	ANNEX A.5	PASS
7	Band Edge	15.209 15.247(d)	ANNEX A.6	PASS
8	Power spectral density (PSD)	15.247(e)	ANNEX A.7	PASS
Note 1: Please refer to section 5.1				

3.3 Table for Carrier Frequency

Frequency Band	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
2413~2468MHz	1	2413	7	2443
	2	2418	8	2448
	3	2423	9	2453
	4	2428	10	2458
	5	2433	11	2463
	6	2438	12	2468

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity (%)	45 - 55	
Atmospheric Pressure (kPa)	100 - 102	
Temperature	NT (Normal Temperature)	+22°C to +25°C
Working Voltage of the EUT	NV (Normal Voltage)	~ 120V/60Hz

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-30	103118	2014.07.10	2015.07.09
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	177746	2014.07.09	2015.07.08
Signal Generator	ROHDE&SCHWARZ	SMB100A	260592	2014.07.21	2015.07.20
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2014.07.23	2015.07.22
Spectrum Analyzer	AGILENT	E4440A	MY45304434	2014.07.07	2015.07.06
Spectrum Analyzer	ROHDE&SCHWARZ	FSL3	103640/003	2014.07.07	2015.07.06
Power Splitter	KMW	DCPD-LDC	1305003215	2014.07.07	2015.07.06
Power Sensor	ROHDE&SCHWARZ	NRP-Z21	103971	2014.07.07	2015.07.06
Attenuator (20dB)	KMW	ZA-S1-201	110617091	--	--
Attenuator (6dB)	KMW	ZA-S1-61	1305003189	--	--
DC Power Supply	ROHDE&SCHWARZ	HMP2020	018141664	2014.07.07	2015.07.06
Temperature Chamber	ANGELANTIONI SCIENCE	NTH64-40A	1310	2014.07.07	2015.07.06
Test Antenna-Loop(9kHz-30MHz)	SCHWARZBECK	FMZB 1519	1519-037	2013.07.02	2015.07.01
Test Antenna-Bi-Log(30MHz-3G Hz)	SCHWARZBECK	VULB 9163	9163-624	2013.07.03	2015.07.02
Test Antenna-Horn(1-18GHz)	SCHWARZBECK	BBHA 9120D	9120D-1148	2013.07.02	2015.07.01
Test Antenna-Horn(15-26.5GHz)	SCHWARZBECK	BBHA 9170	9170-305	2013.07.02	2015.07.01
Anechoic Chamber	RAINFORD	9m*6m*6m	N/A	2014.10.07	2015.10.06

4.3 Test Configurations

Test Configurations (TC) NO.	Description	
	Signal Description	Operating Frequency
Transmitter		
TC01	DSSS modulation, O-QPSK	Ch No. 1/ 2413MHz
TC02	DSSS modulation, O-QPSK	Ch No. 6/ 2438MHz
TC03	DSSS modulation, O-QPSK	Ch No.12/ 2468MHz

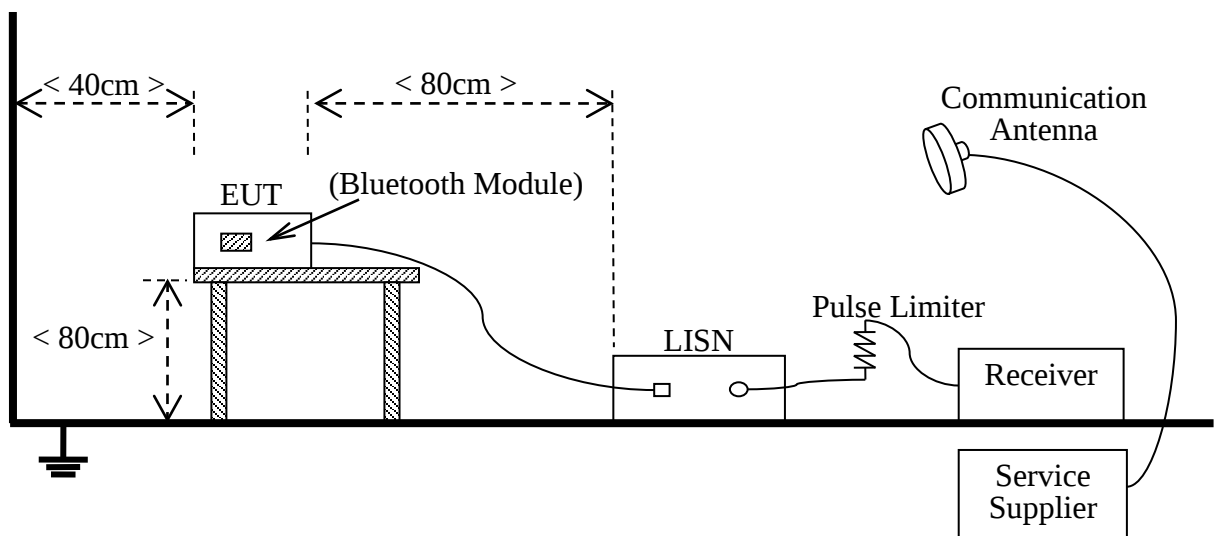
4.4 Description of Test Setup

4.4.1 For Antenna Port Test



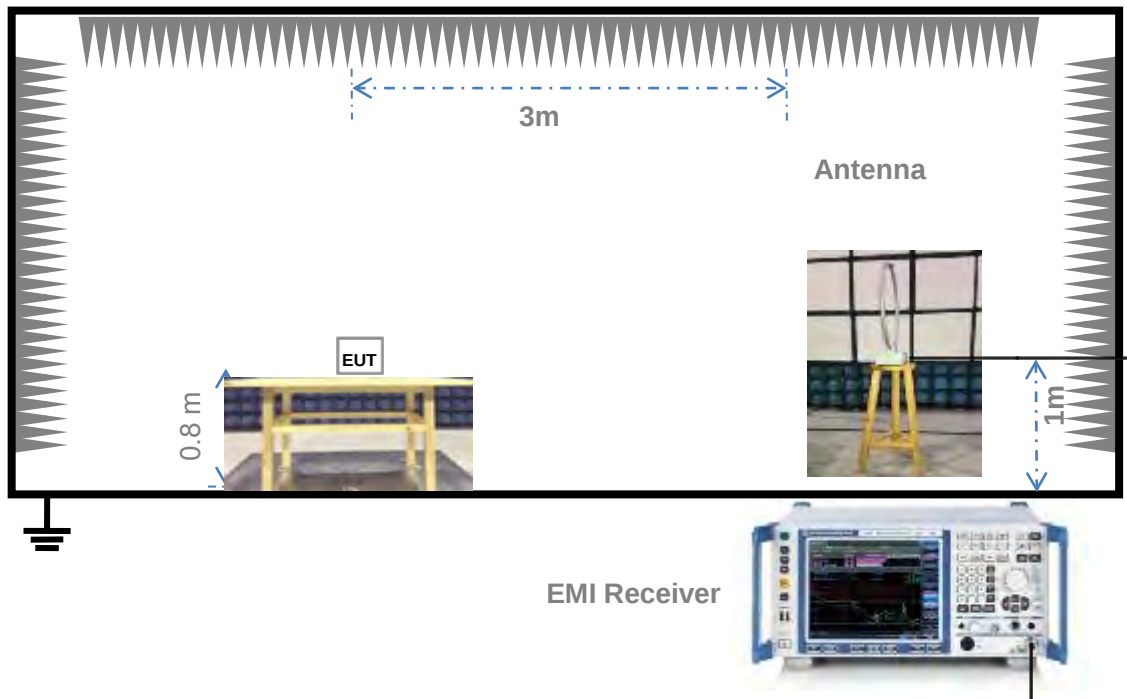
(Diagram 1)

4.4.2 For AC Power Supply Port Test



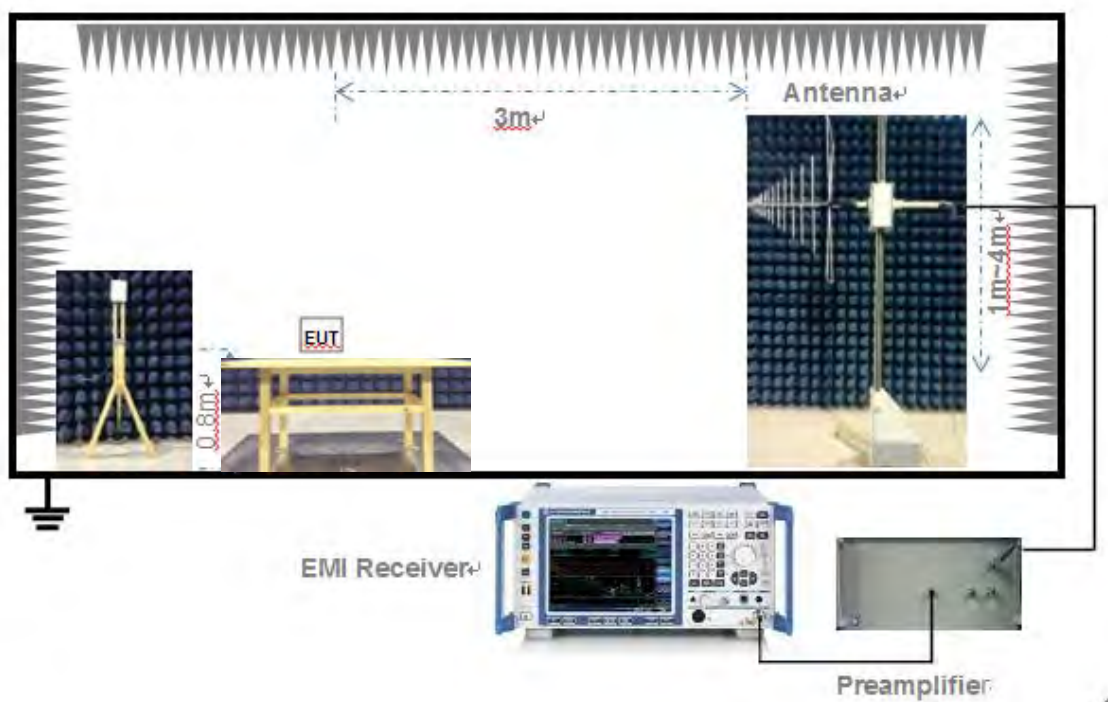
(Diagram 2)

4.4.3 For Radiated Test (Below 30MHz)



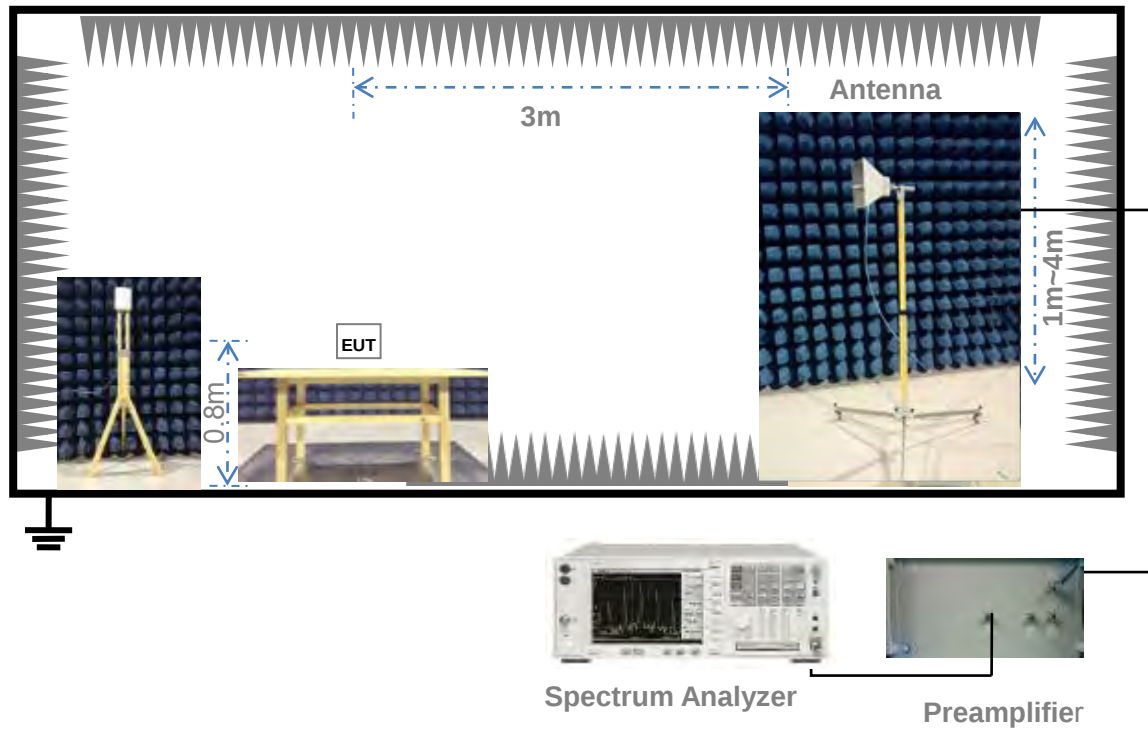
(Diagram 3)

4.4.4 For Radiated Test (30MHz-1GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1GHz)



(Diagram 5)

4.5 Test Conditions

Test Case	Test Conditions		
	Test Env.	Test Setup ^{Note 1}	Test Configuration ^{Note 2}
Peak Output Power	NTNV	Test Setup 1	TC01~TC03
Occupied Bandwidth	NTNV	Test Setup 1	TC01~TC03
Conducted Spurious Emission	NTNV	Test Setup 1	TC01~TC03
Conducted Emission	NTNV	Test Setup 2	TC01~TC03
Radiated Spurious Emission	NTNV	Test Setup 3 Test Setup 4 Test Setup 5	TC01~TC03
Band Edge	NTNV	Test Setup 1	TC01, TC03
Power spectral density (PSD)	NTNV	Test Setup 2	TC01~TC03
Note:			
1. Please refer to section 4.4 for test setup details.			
2. Please refer to section 4.3 for test setup details.			

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Standard Applicable

FCC §15.203 & 15.247(b)

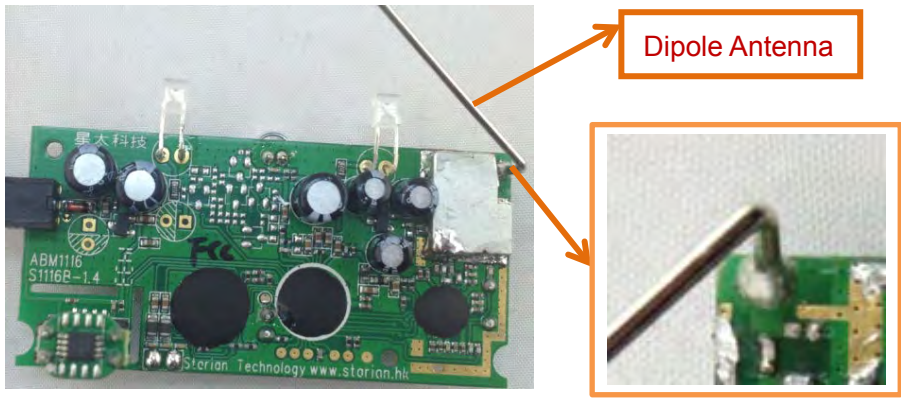
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

If directional gain of transmitting antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is An embedded-in	The antenna is welded on the mainboard, can't be replaced by the consumer

Reference Documents	Item
Photo	

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Output Power

5.2.1 Test Limit

FCC § 15.247(b)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements.

5.2.2 Test Procedure

Maximum peak conducted output power

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

Set the RBW $\geq$ DTS bandwidth.

Set VBW $\geq 3 \times$ RBW.

Set span $\geq 3 \times$ RBW

Sweep time = auto couple.

Detector = peak.

Trace mode = max hold.

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level.

Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

5.3 6dB Bandwidth

5.3.1 Limit

FCC §15.247(a)

Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW. The 6 dB bandwidth must be greater than 500 kHz.

5.3.2 Test Procedure

Use the following spectrum analyzer settings:

Set RBW = 100 kHz.

Set the video bandwidth (VBW) ≥ 3 RBW.

Detector = Peak.

Trace mode = max hold.

Sweep = auto couple.

Allow the trace to stabilize.

Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Conducted Spurious Emission

5.4.1 Limit

FCC §15.247(c)

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.4.2 Test Procedure

The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 20 dBc).
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz (i.e., 30 dBc).
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required.

The following procedures shall be used to demonstrate compliance to these limits. Note that these procedures can be used in either an antenna-port conducted or radiated test set-up. Radiated tests must conform to the test site requirements and utilize maximization procedures defined herein.

Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to ≥ 1.5 times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Emission level measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.

Set the RBW = 100 kHz.

Set the VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in 11.1 a) or 11.1 b). Report the three highest emissions relative to the limit.

5.5 Conducted Emission

5.5.1 Limit

FCC §15.207

For an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency within the band 150kHz to 30MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.5.2 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

5.6 Radiated Spurious Emission

5.6.1 Limit

FCC §15.209&15.247(c)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
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. Field Strength (dBμV/m) = $20 \cdot \log[\text{Field Strength } (\mu\text{V/m})]$.
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.6.2 Test Procedure

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.7 Band Edge

5.7.1 Limit

FCC §15.209&15.247(d)

In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.7.2 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle $\geq 98\%$). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency (femission) ± 0.5 MHz. If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by femission ± 0.5 MHz.

5.8 Power Spectral density (PSD)

5.8.1 Limit

FCC §15.247(d)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

5.8.2 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

ANNEX A TEST RESULT

A.1 Output Power

Duty Cycle

Band	Duty Cycle(%)	T(ms)	1/T(kHz)
O-QPSK	32.9	2.022	0.495

Peak Power Test Data

Channel	Measured Output Peak Power		Limit		Verdict
	dBm	mW	dBm	mW	
Low	15.76	37.67	30	1000	PASS
Middle	15.03	31.84			PASS
High	14.02	25.23			PASS

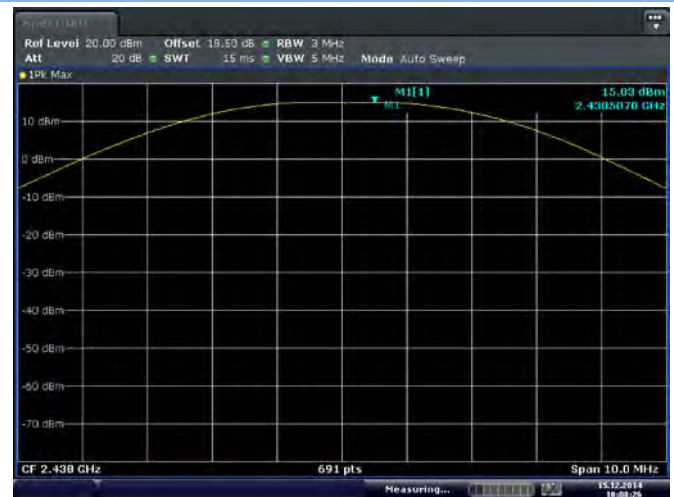
Peak Power Test Plots

LOW CHANNEL



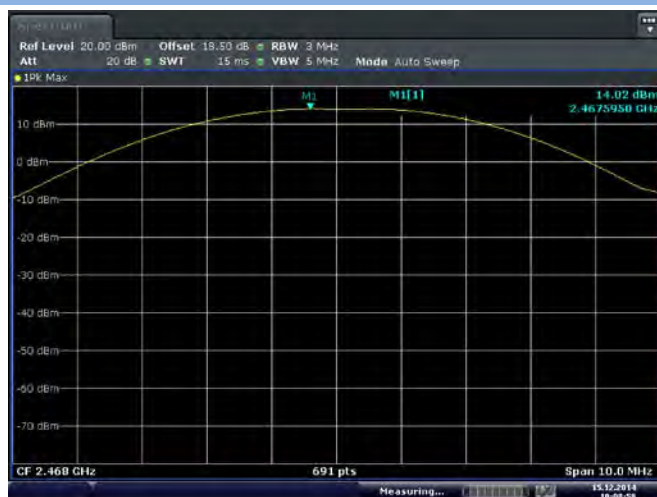
Date: 15 DEC 2014 10:07:40

MID CHANNEL



Date: 15 DEC 2014 10:08:26

HIGH CHANNEL



Date: 15 DEC 2014 10:08:56

A.2 Bandwidth

Test Data

Channel	6 dB Bandwidth (kHz)	Limits (kHz)
Low	1548	≥ 500
Middle	1433	≥ 500
High	1563	≥ 500

Test plots

LOW CHANNEL



MID CHANNEL



HIGH CHANNEL



A.3 Conducted Spurious Emissions

Test Data

Channel	Frequency (MHz)	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
			Carrier Level	Calculated 20 dBc Limit	
Low	2413	-40.46	12.15	-7.85	PASS
Middle	2438	-40.91	12.15	-7.85	PASS
High	2468	-40.71	10.61	-9.40	PASS

Test Plots

LOW CHANNEL CARRIER LEVEL



Date: 15 DEC 2014 10:48:35

LOW CHANNEL, SPURIOUS 30MHz~3GHz



Date: 15 DEC 2014 11:01:16

LOW CHANNEL, SPURIOUS 2GHz~25GHz



Date: 15 DEC 2014 11:02:16

MID CHANNEL CARRIER LEVEL



Date: 15 DEC 2014 11:07:42

MID CHANNEL, SPURIOUS 30MHz~3GHz



Date: 15 DEC 2014 11:09:15

MID CHANNEL, SPURIOUS 2GHz~25GHz



Date: 15 DEC 2014 11:10:27

The screenshot shows a Spectrum Analyzer interface. At the top, settings are displayed: Ref Level 20.00 dBm, Att 20 dB, Offset 18.50 dB, RBW 100 kHz, SWT 19 us, VBW 300 kHz, Mode Auto FFT. A yellow cursor points to a peak labeled M1[1] at 10.61 dBm and 2.4682648 GHz. The frequency span is 3.0 MHz, centered at 2.468 GHz. A table at the bottom lists markers, with M1 at 2.4682648 GHz and 10.61 dBm.

Marker	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4682648 GHz	10.61 dBm		

Ref Level 20.00 dBm Offset 18.50 dB RBW 100 kHz
 Att 20 dB SWI 29.7 ms VBW 300 kHz Mode Auto Sweep
 10% Max

10 dBm
 0 dBm
 -10 dBm
 -20 dBm
 -30 dBm
 -40 dBm
 -50 dBm
 -60 dBm
 -70 dBm

M2[1] -40.71 dBm
 2.43480 GHz
 M1[1] -46.21 dBm
 2.01700 GHz

Start 30.0 MHz 691 pts Stop 3.0 GHz

Type	Ref	X-value	Y-value	Function	Function Result
M1	1	2.017 GHz	-46.21 dBm		
M2	1	2.4348 GHz	-40.71 dBm		

Measuring... 12/12/2014 11:15:40

The screenshot shows a Spectrum Analyzer interface. The top panel displays the following settings: Ref Level 20.00 dBm, Offset 15.50 dB, RBW 100 kHz, Att 20 dB, SWI 230 ms, VBW 300 kHz, and Mode Auto Sweep. The main display area shows a signal spectrum with two markers, M1 and M2, and a table of marker data.

Marker Data Table:

Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1			1	7.01 GHz	-48.91 dBm		
M2			1	16.315 GHz	-45.79 dBm		

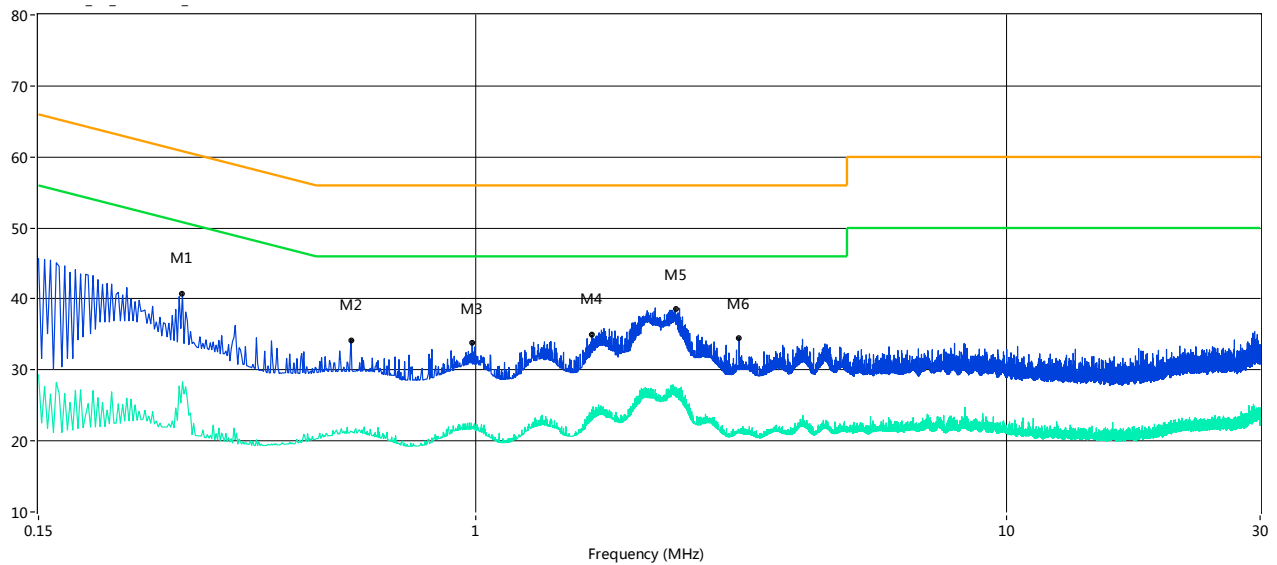
27

A.4 Conducted Emissions

Test Data and Plots

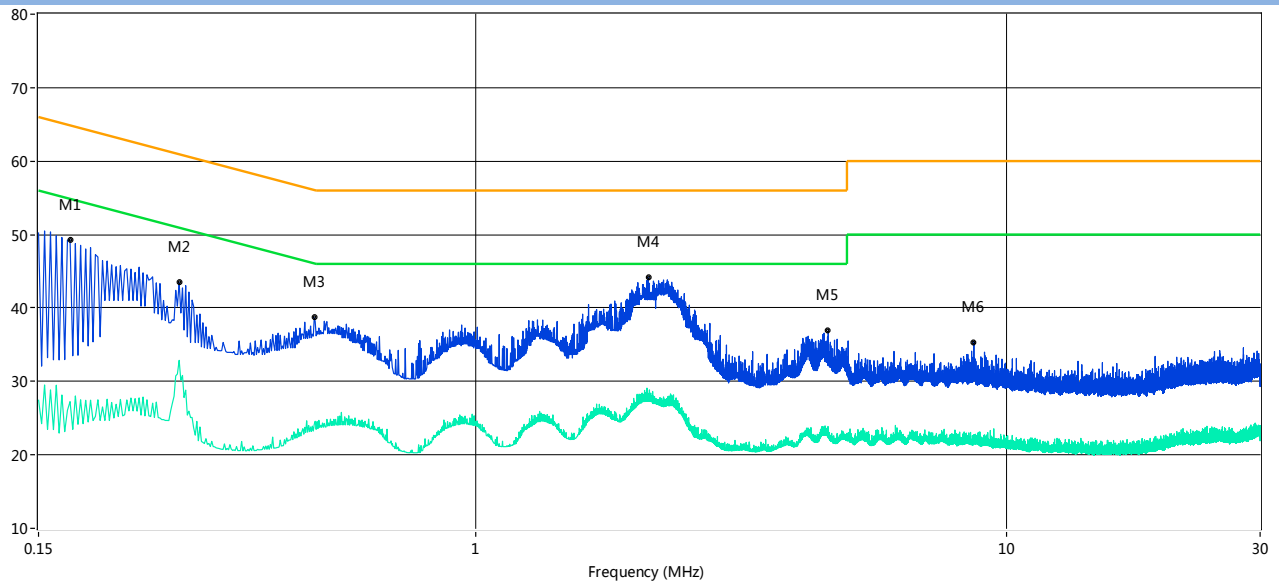
Note: All configurations have been tested, only the worst configuration (Low Channel) shown here.

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.28	40.7	13.00	62.3	21.60	Peak	L Line	PASS
1**	0.28	28.3	13.00	52.3	24.00	AV	L Line	PASS
2	0.58	34.2	13.00	56.0	21.80	Peak	L Line	PASS
2**	0.58	21.4	13.00	46.0	24.60	AV	L Line	PASS
3	0.98	33.8	13.00	56.0	22.20	Peak	L Line	PASS
3**	0.98	22.0	13.00	46.0	24.00	AV	L Line	PASS
4	1.65	34.9	13.00	56.0	21.10	Peak	L Line	PASS
4**	1.65	24.4	13.00	46.0	21.60	AV	L Line	PASS
5	2.38	38.7	13.00	56.0	17.30	Peak	L Line	PASS
5**	2.38	27.6	13.00	46.0	18.40	AV	L Line	PASS
6	3.13	34.5	13.00	56.0	21.50	Peak	L Line	PASS
6**	3.13	21.6	13.00	46.0	24.40	AV	L Line	PASS

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.17	49.3	13.00	65.4	16.10	Peak	N Line	PASS
1**	0.17	27.2	13.00	55.4	28.20	AV	N Line	PASS
2	0.28	43.5	13.00	62.4	18.90	Peak	N Line	PASS
2**	0.28	32.9	13.00	52.4	19.50	AV	N Line	PASS
3	0.50	38.7	13.00	56.1	17.40	Peak	N Line	PASS
3**	0.50	24.2	13.00	46.1	21.90	AV	N Line	PASS
4	2.11	44.1	13.00	56.0	11.90	Peak	N Line	PASS
4**	2.11	28.1	13.00	46.0	17.90	AV	N Line	PASS
5	4.61	36.9	13.00	56.0	19.10	Peak	N Line	PASS
5**	4.61	22.5	13.00	46.0	23.50	AV	N Line	PASS
6	8.67	35.4	13.00	60.0	24.60	Peak	N Line	PASS
6**	8.67	22.4	13.00	50.0	27.60	AV	N Line	PASS

A.5 Radiated Emission

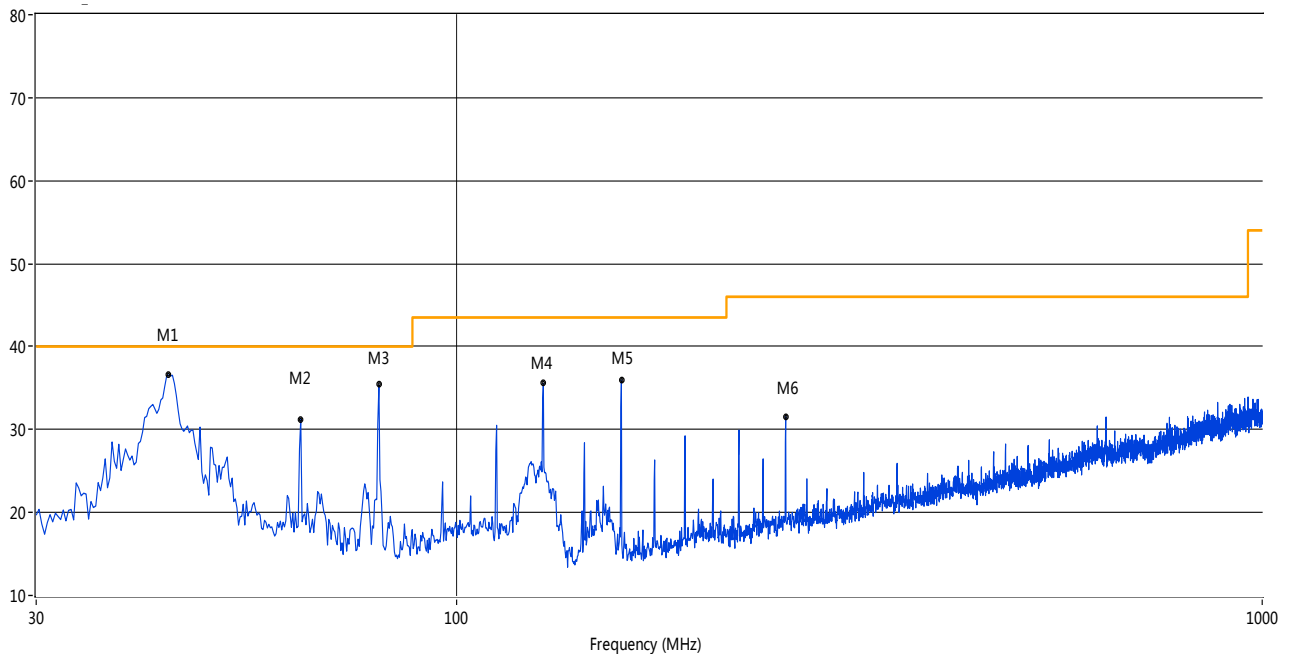
Note 1: The symbol of “--” in the table which means not application.

Note 2: For the test data above 1GHz, According the ANSI C63.4-2014, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 3: The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported.

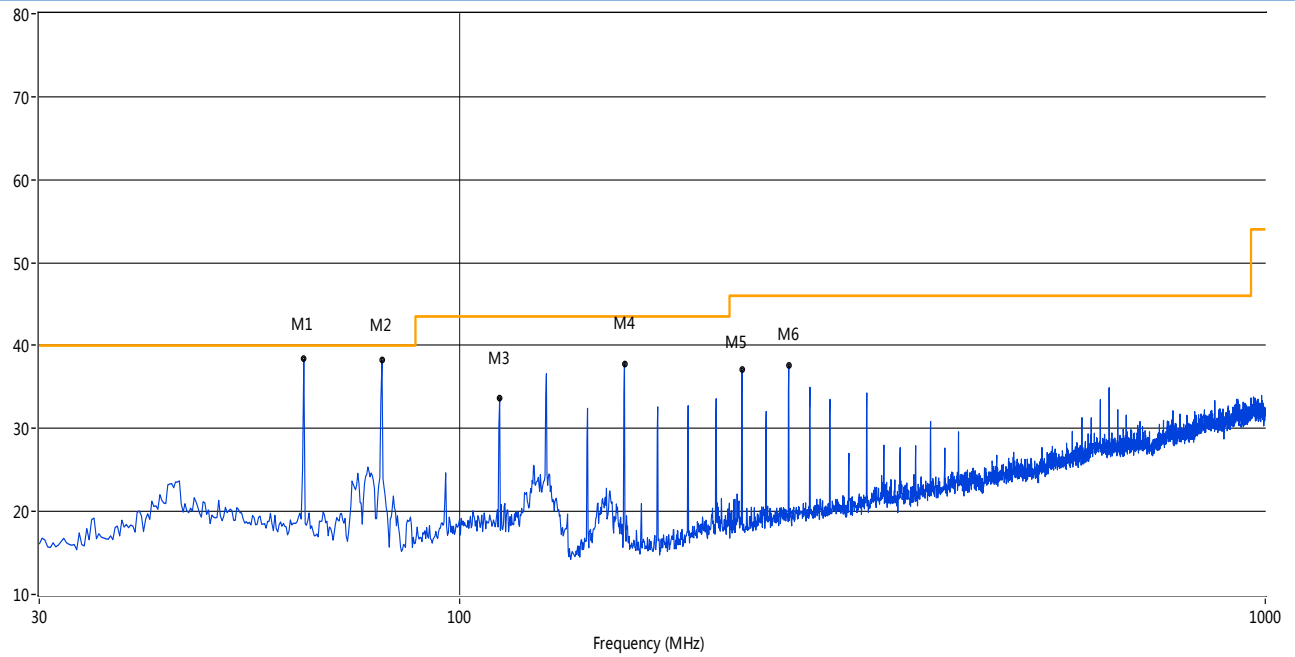
Note 4: All configurations have been tested, only the worst configuration (Low Channel) shown here.

30MHz to 1GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	43.82	32.51	-18.92	40.0	7.49	Peak	2.70	100	Vertical	PASS
2	63.94	30.74	-20.36	40.0	9.26	Peak	18.30	100	Vertical	PASS
3	79.94	34.97	-24.48	40.0	5.03	Peak	33.30	100	Vertical	PASS
4	127.95	35.57	-23.08	43.5	7.93	Peak	29.60	100	Vertical	PASS
5	159.95	35.96	-23.06	43.5	7.54	Peak	44.30	100	Vertical	PASS
6	255.95	31.54	-18.74	46.0	14.46	Peak	40.60	100	Vertical	PASS

30MHz to 1GHz, ANT H

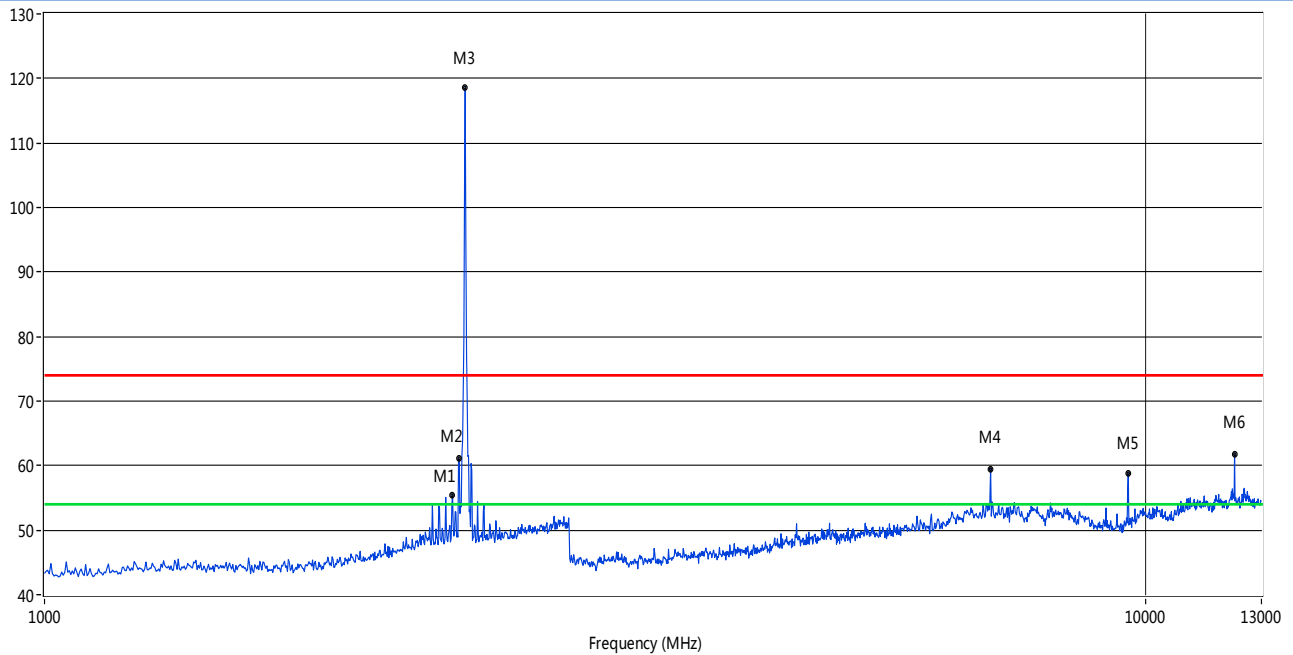


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	63.94	38.37	-20.36	40.0	1.63	Peak	345.50	100	Horizontal	PASS
1*	63.94	36.53	-20.36	40.0	3.47	QP	345.50	100	Horizontal	PASS
2	79.94	38.20	-24.48	40.0	1.80	Peak	352.90	100	Horizontal	PASS
2*	79.94	35.41	-24.48	40.0	4.59	QP	352.90	100	Horizontal	PASS
3	111.94	33.63	-20.52	43.5	9.87	Peak	312.00	100	Horizontal	PASS
4	159.95	36.98	-23.06	43.5	6.52	Peak	330.70	100	Horizontal	PASS
5	223.95	36.12	-19.83	46.0	9.88	Peak	360.00	100	Horizontal	PASS
6	255.95	36.87	-18.74	46.0	9.13	Peak	357.30	100	Horizontal	PASS

Note: The marked spikes near 2400MHz with circle should be ignored because they are Fundamental signal.

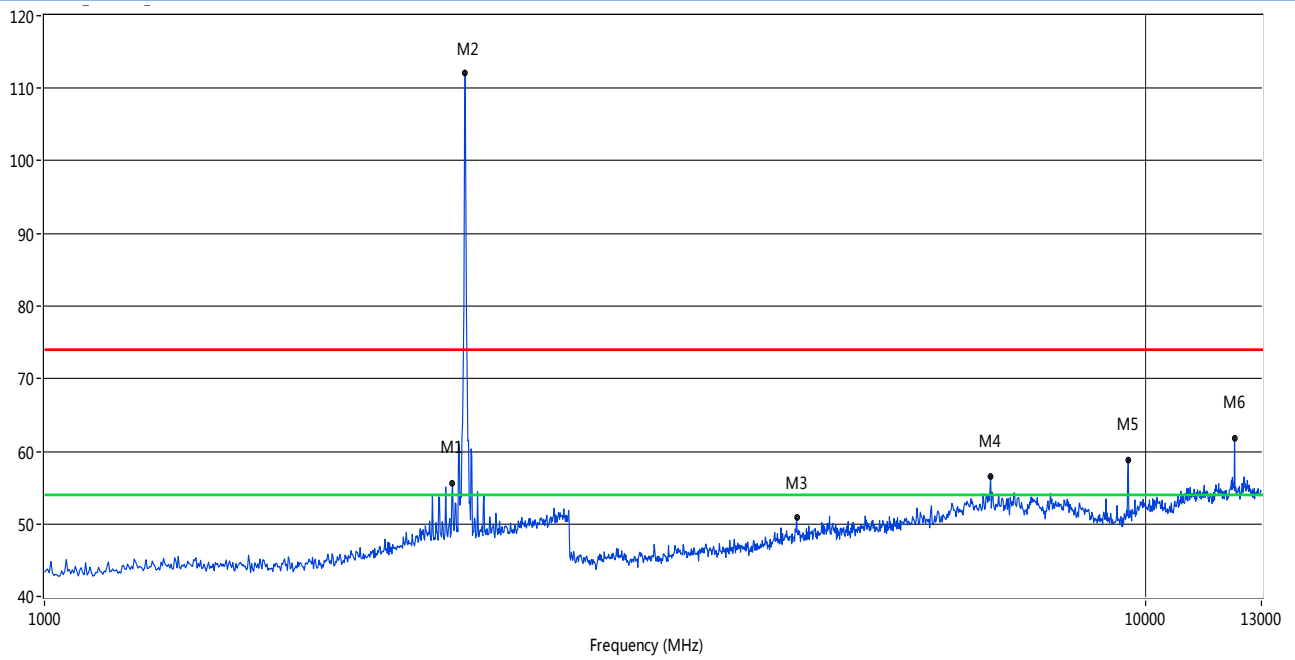
Test Data and Plots(1GHz ~ 10th Harmonic)

LOW CHANNEL 1GHz to 13GHz, ANT V



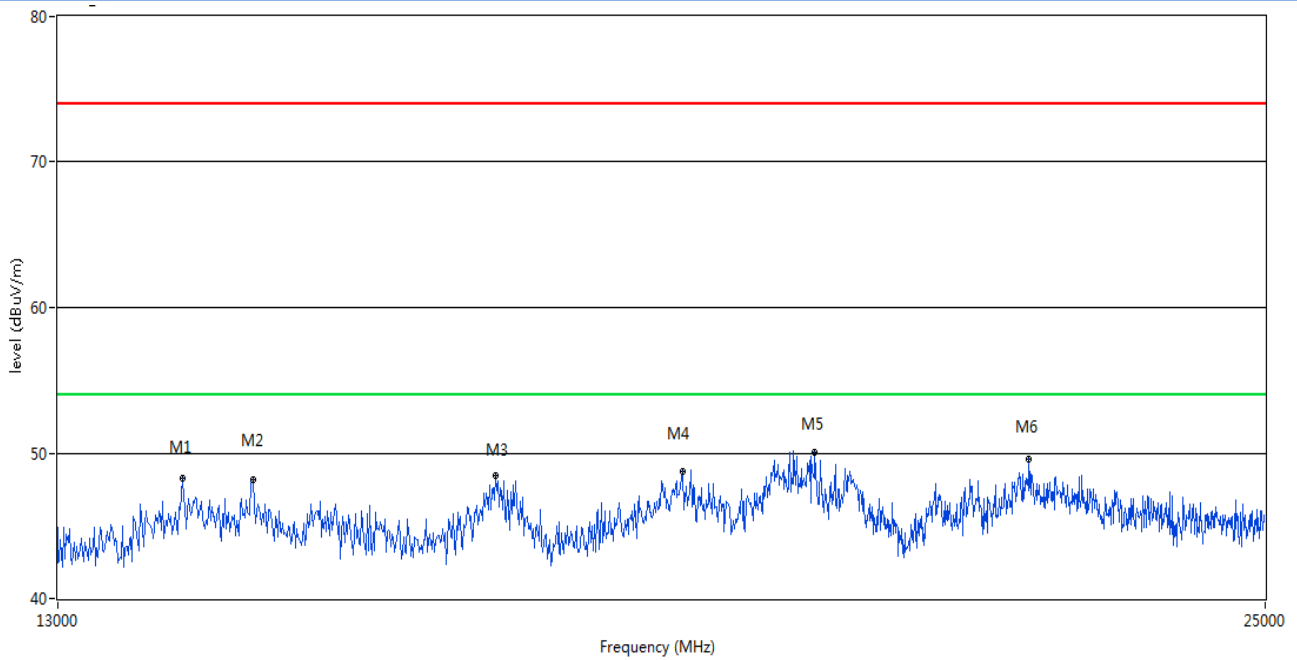
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2347.75	56.35	-0.71	74.0	18.48	Peak	55.60	100	Vertical	PASS
2	2377.70	62.30	-0.51	74.0	12.80	Peak	52.40	100	Vertical	PASS
3	2410.98	118.59	-0.12	74.0	-44.59	Peak	1.00	100	Vertical	N/A
4**	7235.44	51.76	17.51	54.0	2.24	AV	144.50	100	Vertical	PASS
4	7235.44	59.54	17.51	74.0	14.46	Peak	144.50	100	Vertical	PASS
5**	9650.17	50.09	17.52	54.0	3.91	AV	141.30	100	Vertical	PASS
5	9650.17	58.87	17.52	74.0	15.13	Peak	141.30	100	Vertical	PASS
6**	12053.66	52.82	20.82	54.0	1.18	AV	169.10	100	Vertical	PASS
6	12053.66	61.82	20.82	74.0	12.18	Peak	169.10	100	Vertical	PASS

LOW CHANNEL 1GHz to 13GHz, ANT H



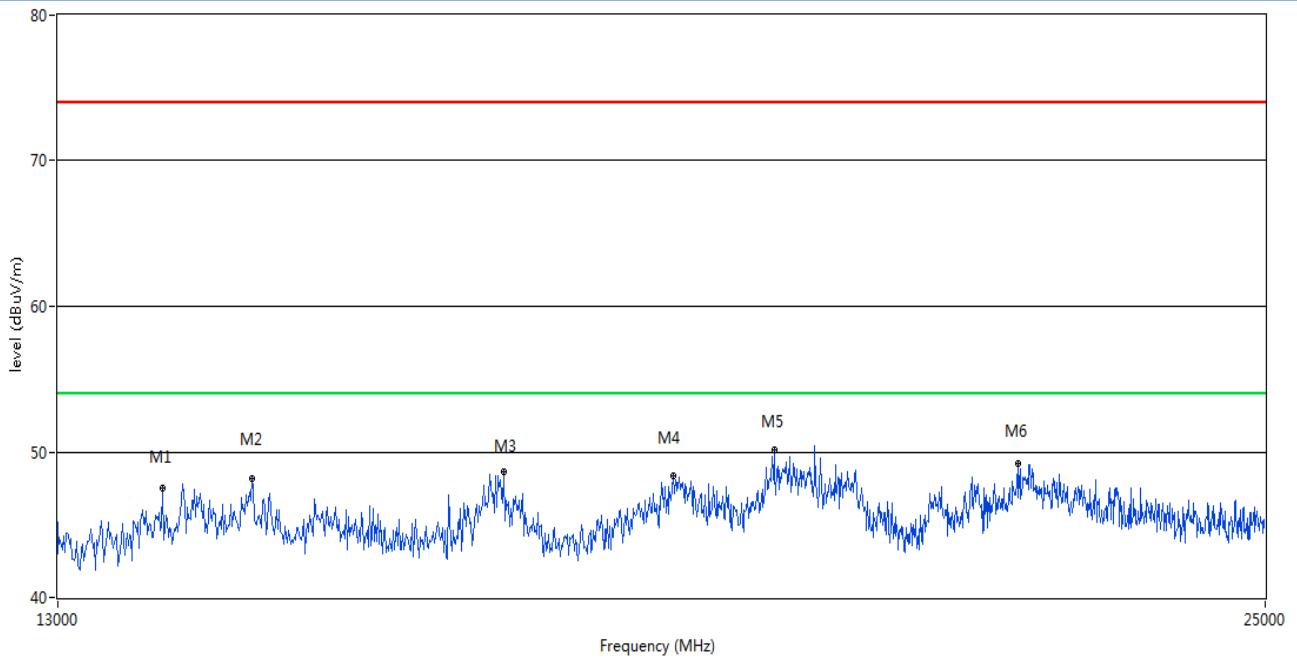
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	2347.75	55.52	-0.71	74.0	18.48	Peak	55.60	100	Horizontal	PASS
2	2410.98	112.15	-0.12	74.0	-38.15	Peak	1.00	100	Horizontal	N/A
3	4821.96	50.98	13.85	74.0	23.02	Peak	46.30	100	Horizontal	PASS
4**	7235.44	47.54	17.51	54.0	6.46	AV	144.50	100	Horizontal	PASS
4	7235.44	56.54	17.51	74.0	17.46	Peak	144.50	100	Horizontal	PASS
5**	9650.17	50.09	17.53	54.0	3.91	AV	141.30	100	Horizontal	PASS
5	9650.17	58.87	17.53	74.0	15.13	Peak	141.30	100	Horizontal	PASS
6**	12053.66	52.38	20.82	54.0	1.62	AV	169.10	100	Horizontal	PASS
6	12053.66	61.82	20.82	74.0	12.18	Peak	169.10	100	Horizontal	PASS

LOW CHANNEL 13GHz to 25GHz, ANT V



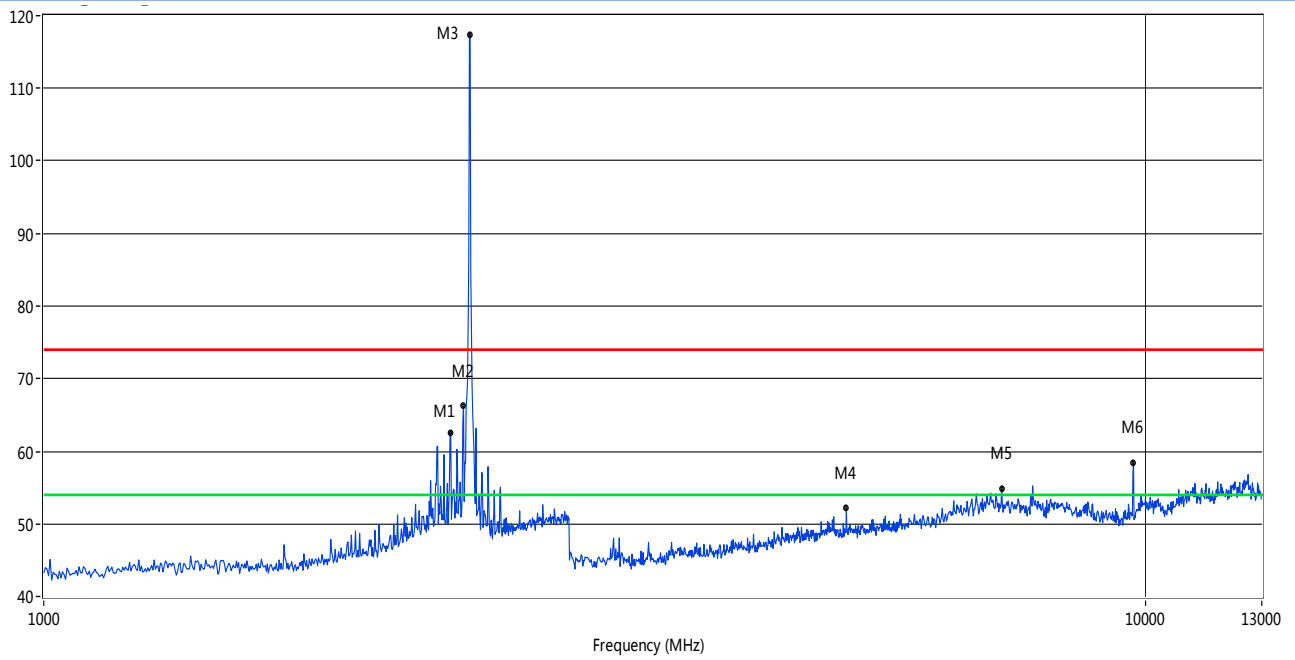
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	13665.14	47.84	9.63	74.0	26.16	Peak	0.30	100	Vertical	PASS
2	14216.31	48.20	9.61	74.0	25.80	Peak	170.80	100	Vertical	PASS
3	16275.37	48.45	11.56	74.0	25.55	Peak	0.30	100	Vertical	PASS
4	18064.06	48.75	13.13	74.0	25.25	Peak	176.40	100	Vertical	PASS
5	19449.25	50.09	12.80	74.0	23.91	Peak	359.80	100	Vertical	PASS
6	21915.14	49.60	12.55	74.0	24.40	Peak	338.90	100	Vertical	PASS

LOW CHANNEL 13GHz to 25GHz, ANT H



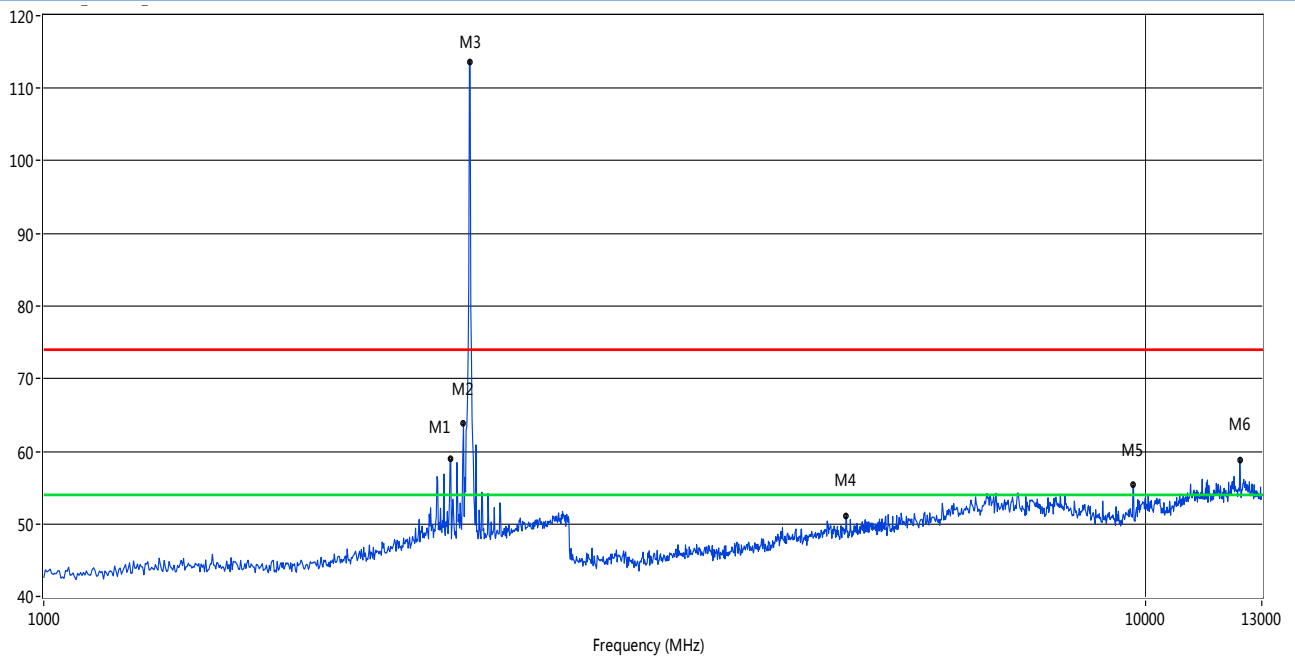
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	13519.55	47.49	9.56	74.0	26.51	Peak	351.40	100	Horizontal	PASS
2	14205.91	48.13	9.61	74.0	25.87	Peak	320.10	100	Horizontal	PASS
3	16348.17	48.67	11.76	74.0	25.33	Peak	360.70	100	Horizontal	PASS
4	17970.47	48.31	13.13	74.0	25.69	Peak	272.40	100	Horizontal	PASS
5	19009.98	50.13	13.42	74.0	23.87	Peak	189.80	100	Horizontal	PASS
6	21775.37	49.17	12.61	74.0	24.83	Peak	205.70	100	Horizontal	PASS

MID CHANNEL 1GHz to 13GHz, ANT V



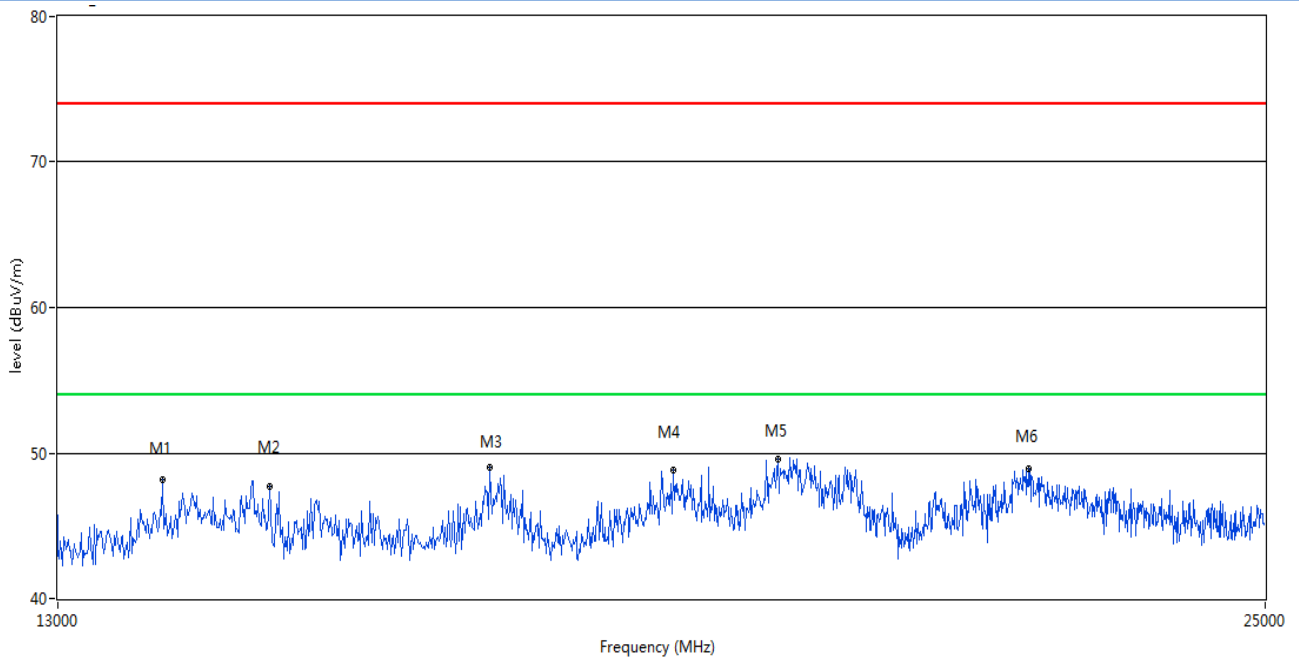
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2337.77	50.58	-0.74	54.0	3.42	AV	39.10	100	Vertical	PASS
1	2337.77	62.50	-0.74	74.0	11.50	Peak	39.10	100	Vertical	PASS
2	2404.33	66.22	-0.30	74.0	7.78	Peak	43.90	100	Vertical	PASS
3	2437.60	117.32	-0.52	74.0	-43.32	Peak	48.70	100	Vertical	N/A
4	5351.08	52.12	14.85	74.0	21.88	Peak	187.50	100	Vertical	PASS
5**	7403.91	45.50	17.02	54.0	8.50	AV	2.80	100	Vertical	PASS
5	7403.91	54.84	17.02	74.0	19.16	Peak	2.80	100	Vertical	PASS
6	9751.25	58.45	17.89	74.0	15.55	Peak	113.90	100	Vertical	PASS
6**	9751.25	49.45	16.88	54.0	4.55	AV	198.00	100	Vertical	PASS

MID CHANNEL 1GHz to 13GHz, ANT H



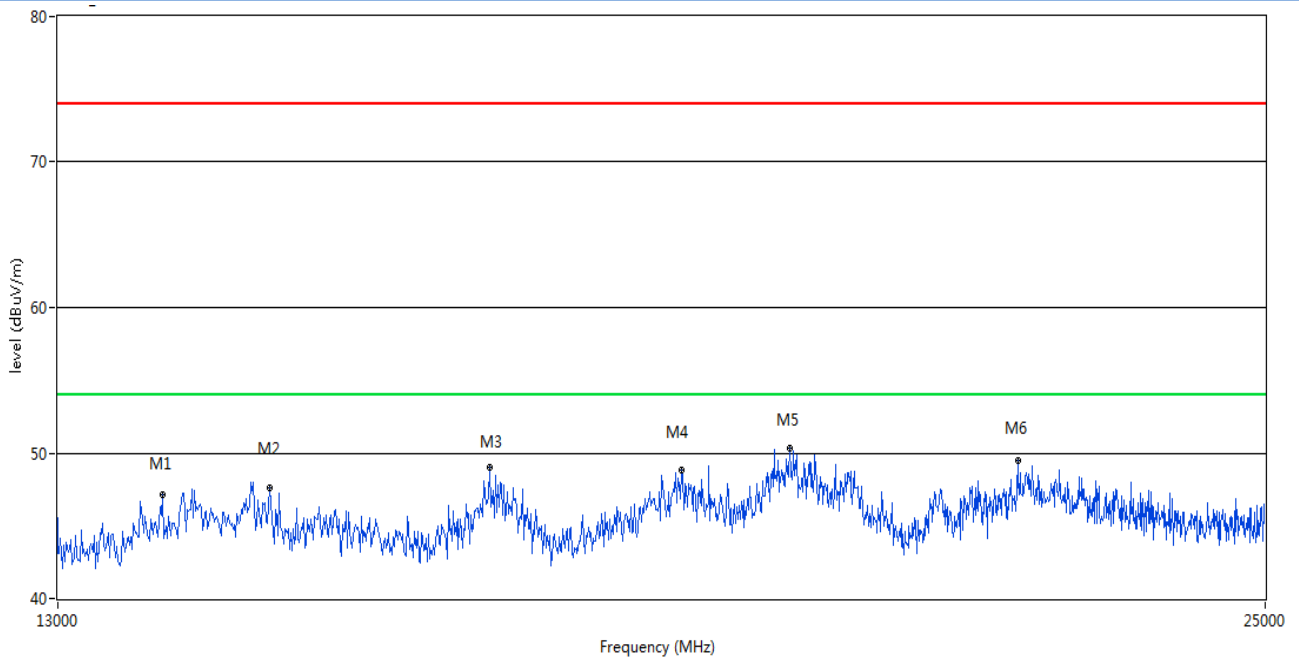
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2341.10	48.56	-0.70	54.0	5.44	AV	7.70	100	Horizontal	PASS
1	2341.10	58.89	-0.70	74.0	15.11	Peak	7.70	100	Horizontal	PASS
2	2404.33	63.82	-0.30	74.0	10.18	Peak	106.20	100	Horizontal	PASS
3	2437.60	113.62	-0.52	74.0	-39.62	Peak	16.80	100	Horizontal	N/A
4	5351.08	51.07	14.85	74.0	22.93	Peak	225.30	100	Horizontal	PASS
5**	9751.25	46.36	17.89	54.0	7.64	Peak	249.90	100	Horizontal	PASS
5	9751.25	55.36	17.89	74.0	18.64	Peak	249.90	100	Horizontal	PASS
6**	12177.20	50.83	20.68	74.0	7.17	Peak	165.00	100	Horizontal	PASS
6	12177.20	58.83	20.68	74.0	15.17	Peak	165.00	100	Horizontal	PASS

MID CHANNEL 13GHz to 25GHz, ANT V



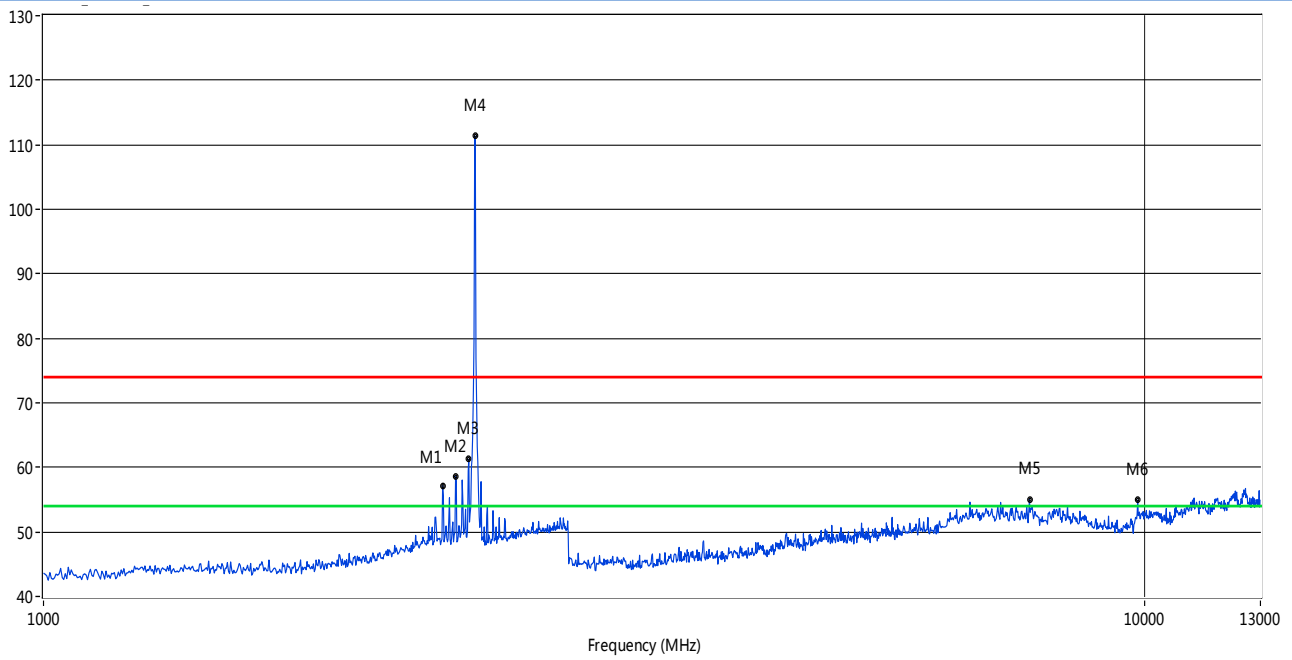
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	13519.55	47.49	9.56	74.0	26.51	Peak	351.40	100	Vertical	PASS
2	14351.50	47.69	9.56	74.0	26.31	Peak	122.70	100	Vertical	PASS
3	16223.38	48.99	11.41	74.0	25.01	Peak	43.40	100	Vertical	PASS
4	17970.47	48.31	13.13	74.0	25.69	Peak	272.40	100	Vertical	PASS
5	19049.92	49.60	13.57	74.0	24.40	Peak	360.00	100	Vertical	PASS
6	21915.14	48.91	12.55	74.0	25.09	Peak	338.90	100	Vertical	PASS

MID CHANNEL 13GHz to 25GHz, ANT H



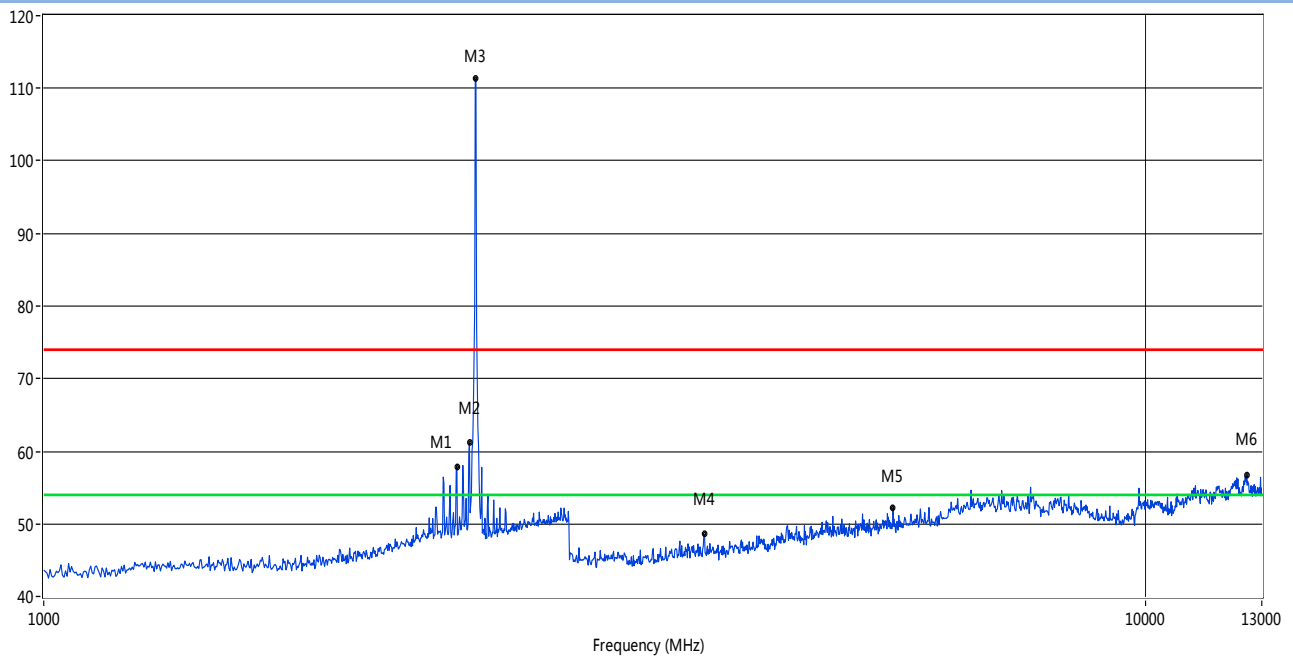
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	13519.55	47.49	9.56	74.0	26.51	Peak	351.40	100	Horizontal	PASS
2	14351.50	47.69	9.56	74.0	26.31	Peak	122.70	100	Horizontal	PASS
3	16223.38	48.99	11.41	74.0	25.01	Peak	43.40	100	Horizontal	PASS
4	18053.66	48.80	13.16	74.0	25.20	Peak	224.20	100	Horizontal	PASS
5	19179.70	50.31	14.04	74.0	23.69	Peak	66.70	100	Horizontal	PASS
6	21775.37	49.46	12.61	74.0	24.54	Peak	205.70	100	Horizontal	PASS

HIGH CHANNEL 1GHz to 13GHz, ANT V



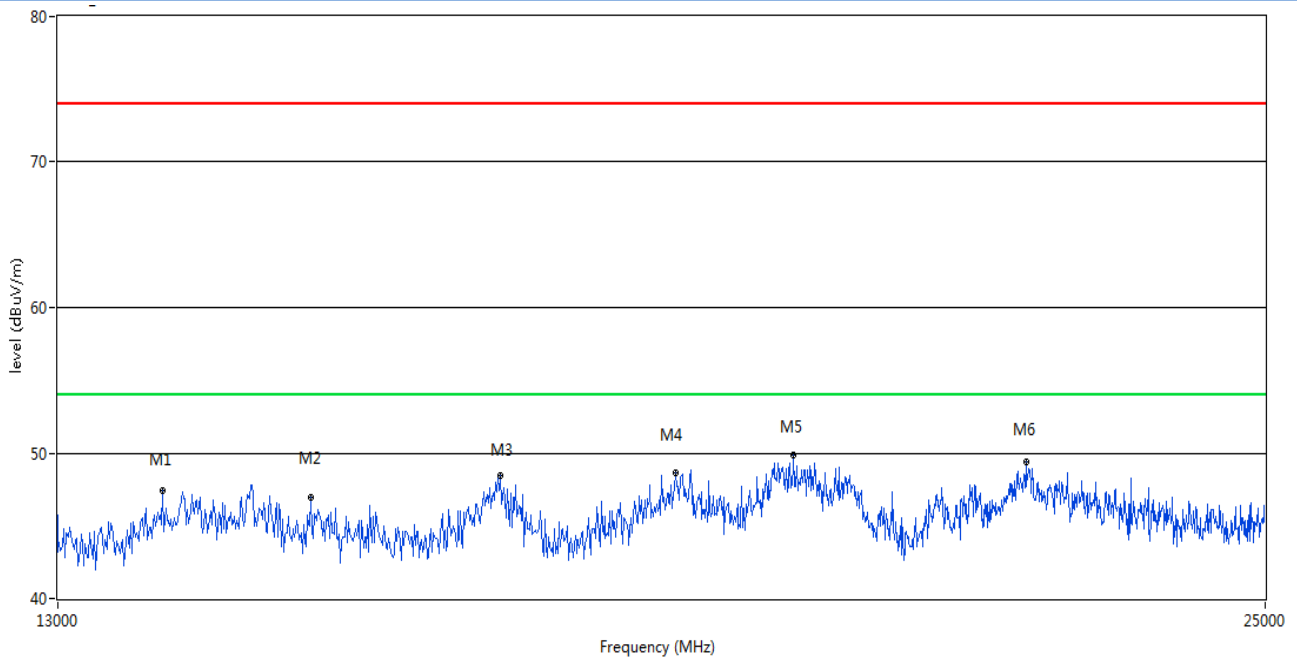
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2304.49	45.42	-0.43	54.0	8.58	AV	48.40	100	Vertical	PASS
1	2304.49	57.15	-0.43	74.0	16.85	Peak	48.40	100	Vertical	PASS
2**	2367.72	47.98	-0.67	54.0	6.02	AV	359.90	100	Vertical	PASS
2	2367.72	58.68	-0.67	74.0	15.32	Peak	359.90	100	Vertical	PASS
3	2434.28	61.24	-0.56	74.0	12.76	Peak	-0.00	100	Vertical	PASS
4	2467.55	111.33	-0.50	74.0	-37.33	Peak	-0.60	100	Vertical	N/A
5**	7864.39	46.95	18.17	54.0	7.05	AV	115.40	100	Vertical	PASS
5	7864.39	55.05	18.17	74.0	18.95	Peak	115.40	100	Vertical	PASS
6**	9863.56	47.37	18.69	54.0	6.63	AV	140.10	100	Vertical	PASS
6	9863.56	54.91	18.69	74.0	19.09	Peak	140.10	100	Vertical	PASS

HIGH CHANNEL 1GHz to 13GHz, ANT H



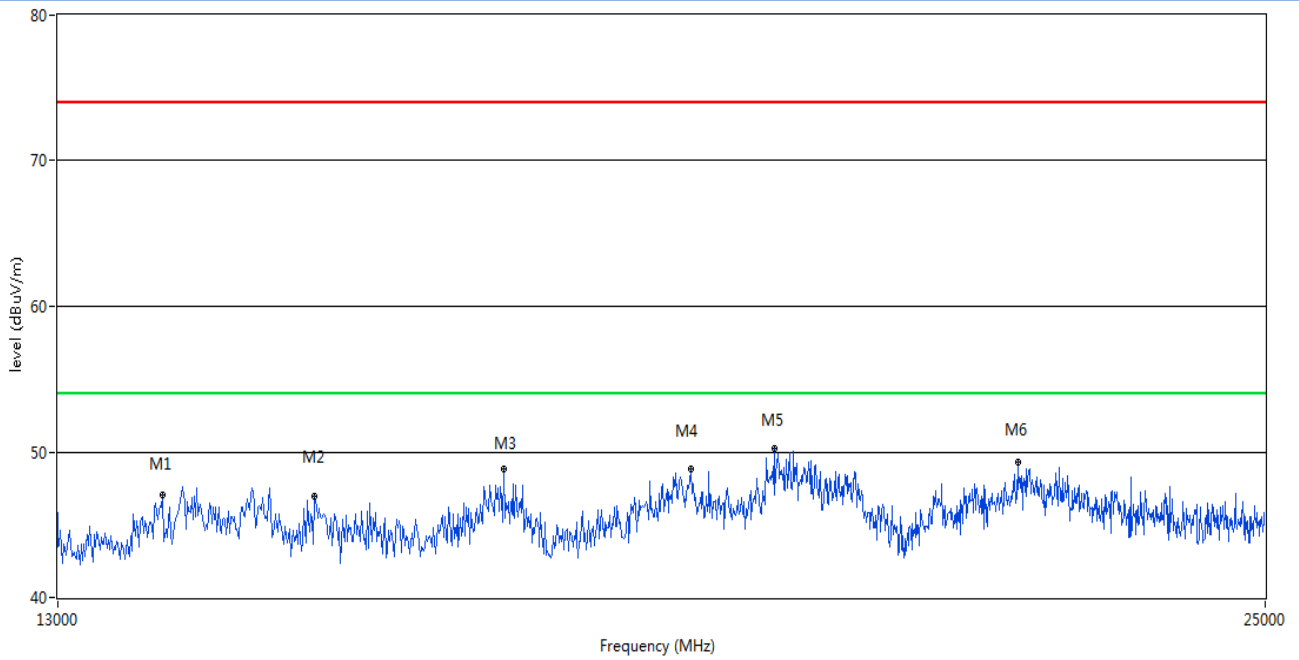
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1**	2371.05	48.89	-0.68	54.0	5.11	Peak	359.00	100	Horizontal	PASS
1	2371.05	57.89	-0.68	74.0	16.11	Peak	359.00	100	Horizontal	PASS
2	2434.28	61.24	-0.55	74.0	12.76	Peak	-0.00	100	Horizontal	PASS
3	2467.55	111.33	-0.50	74.0	-37.33	Peak	-0.60	100	Horizontal	N/A
4	3978.37	48.60	11.06	74.0	25.40	Peak	103.10	100	Horizontal	PASS
5	5900.17	52.25	15.41	74.0	21.75	Peak	213.10	100	Horizontal	PASS
6**	12356.91	43.16	20.64	54.0	10.84	AV	96.80	100	Horizontal	PASS
6	12356.91	56.73	20.64	74.0	17.27	Peak	96.80	100	Horizontal	PASS

HIGH CHANNEL 13GHz to 25GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	13519.55	47.49	9.56	74.0	26.51	Peak	351.40	100	Vertical	PASS
2	14684.28	46.92	9.13	74.0	27.08	Peak	330.80	100	Vertical	PASS
3	16316.97	48.43	11.67	74.0	25.57	Peak	27.50	100	Vertical	PASS
4	17991.26	48.60	13.27	74.0	25.40	Peak	0.00	100	Vertical	PASS
5	19219.63	49.89	14.00	74.0	24.11	Peak	360.00	100	Vertical	PASS
6	21875.21	49.39	12.63	74.0	24.61	Peak	173.80	100	Vertical	PASS

HIGH CHANNEL 13GHz to 25GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (o)	Height (cm)	ANT	Verdict
1	13519.55	47.49	9.56	74.0	26.51	Peak	351.40	100	Horizontal	PASS
2	14715.47	46.91	9.11	74.0	27.09	Peak	207.90	100	Horizontal	PASS
3	16348.17	48.86	11.76	74.0	25.14	Peak	360.70	100	Horizontal	PASS
4	18147.26	48.87	12.87	74.0	25.13	Peak	266.80	100	Horizontal	PASS
5	19009.98	50.19	13.42	74.0	23.81	Peak	189.80	100	Horizontal	PASS
6	21775.37	49.26	12.61	74.0	24.74	Peak	205.70	100	Horizontal	PASS

A.6 Band Edge

Test Data

The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Test Plots

LOW CHANNEL, Reference level



LOW CHANNEL, Band Edge



HIGH CHANNEL, Reference level



HIGH CHANNEL, Band Edge



A.7 Power Spectral Density (PSD)

Test Data

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
Low	3.37	8	PASS
Middle	3.54	8	PASS
High	2.58	8	PASS

Test plots

LOW CHANNEL



Date: 15 DEC 2014 10:16:04

MID CHANNEL



Date: 15 DEC 2014 10:18:01

HIGH CHANNEL



Date: 15 DEC 2014 10:22:13

ANNEX B TEST SETUP PHOTOS

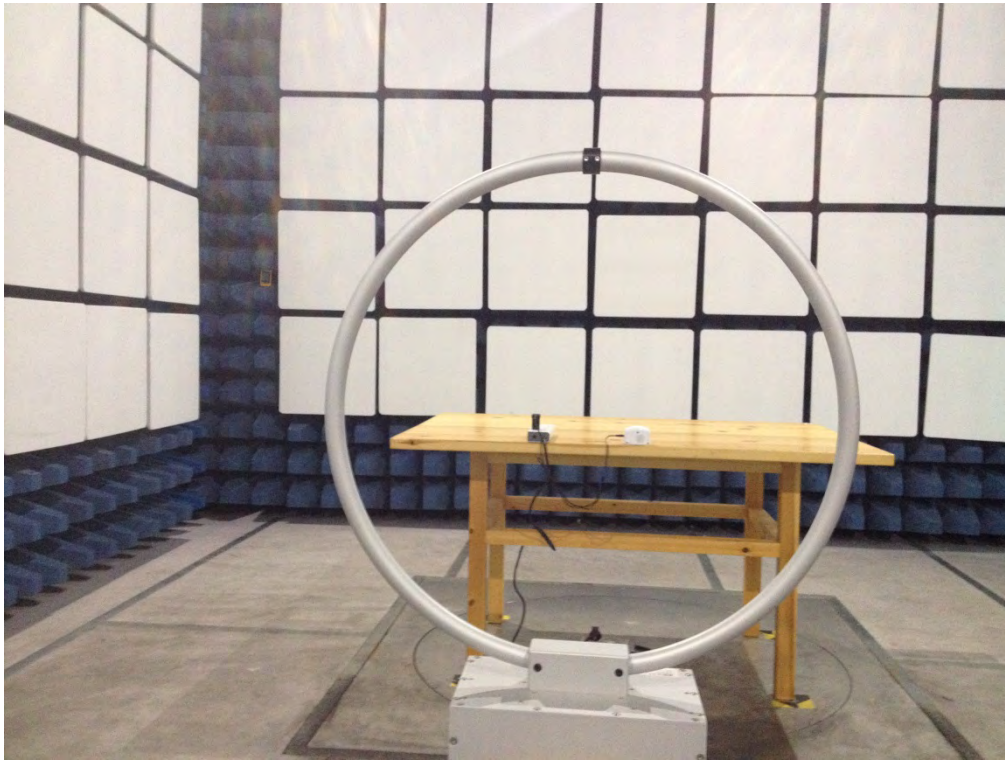
B.1 Conducted Test Photo



B.2 Conducted Emissions Test Photo



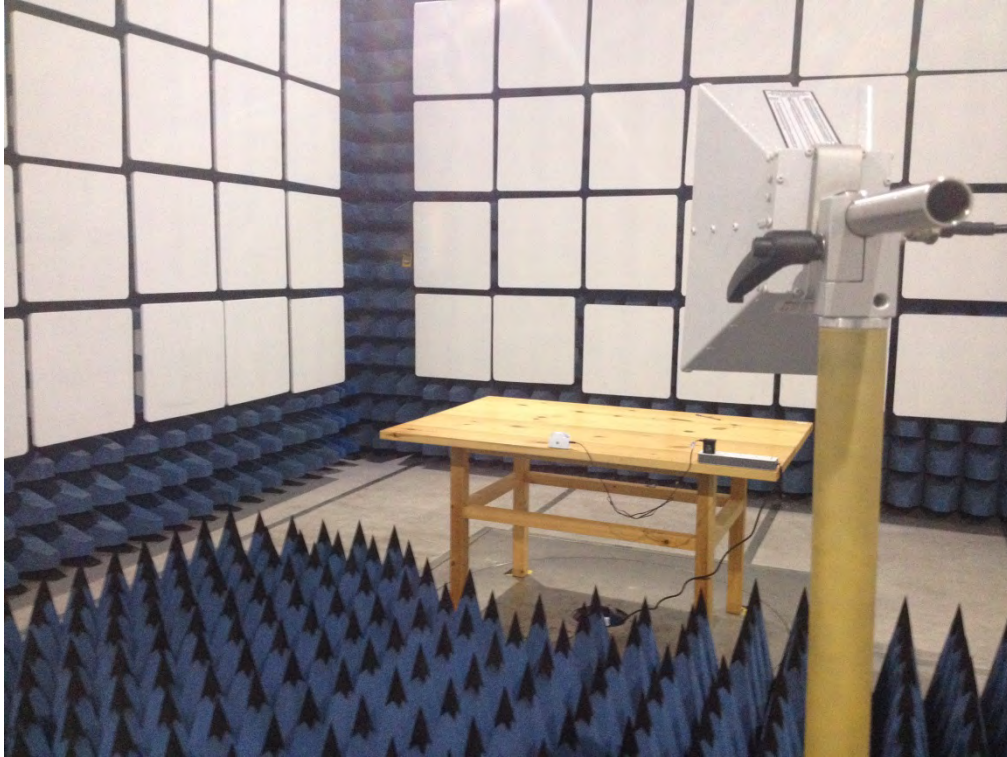
B.3 Radiated Test Photo



Below 30MHz



30MHz to 1GHz



Above 1GHz

ANNEX C EUT PHOTOS

C.1 Appearance of the EUT



THE FRONT OF PARENT



THE BACK OF PARENT



THE DOWN OF PARENT



THE UP OF PARENT



THE LEFT OF PARENT



THE RIGHT OF PARENT



THE FRONT OF BABY



THE BACK OF BABY



THE DOWN OF BABY



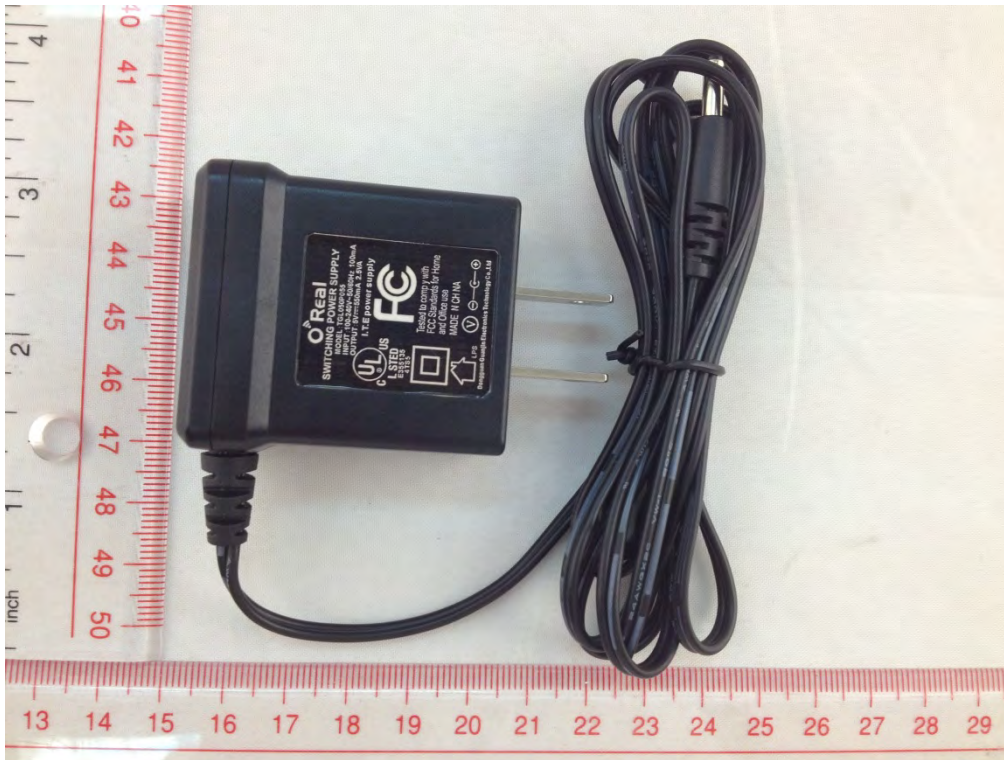
THE UP OF BABY



THE LEFT OF BABY

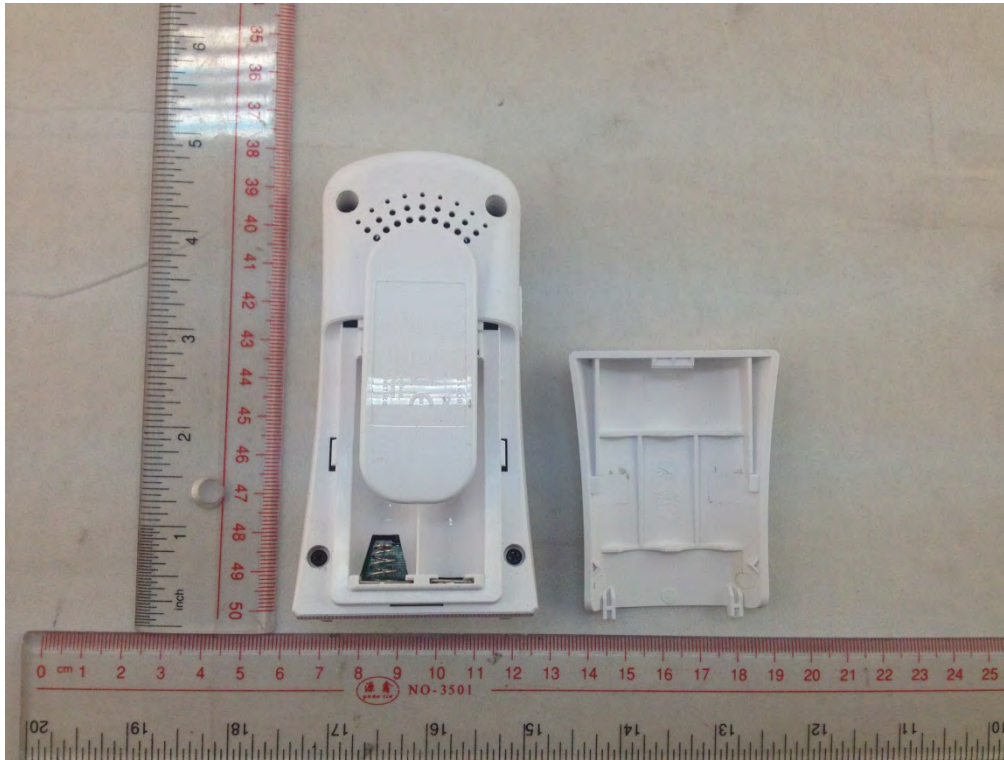


THE RIGHT OF BABY

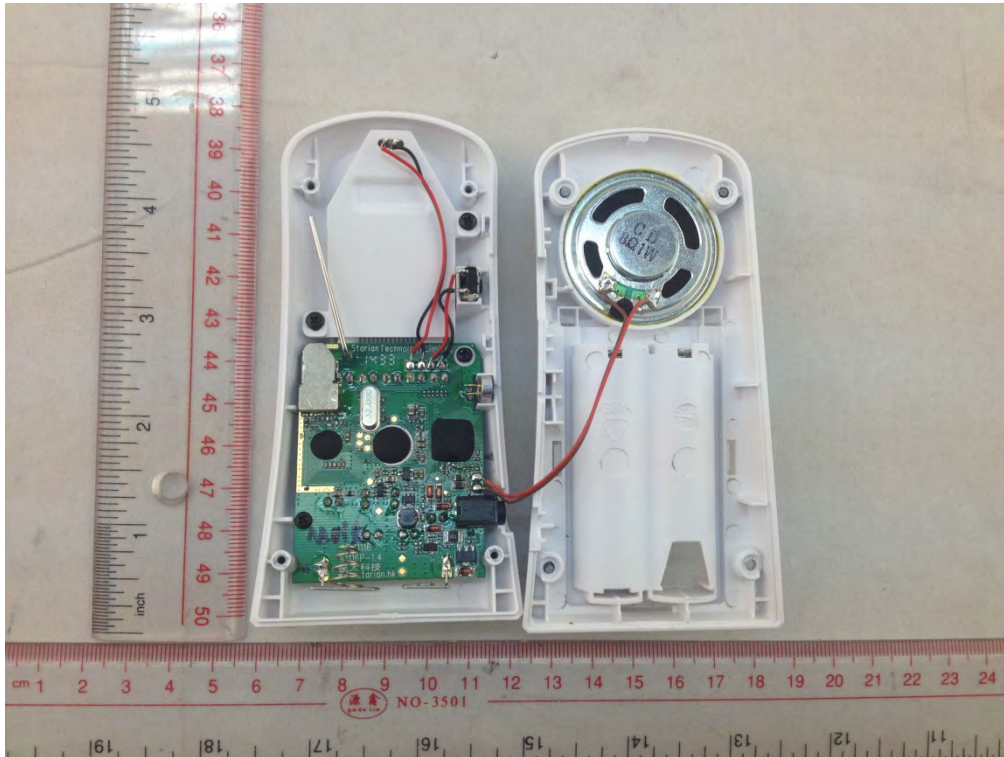


THE CHARGER

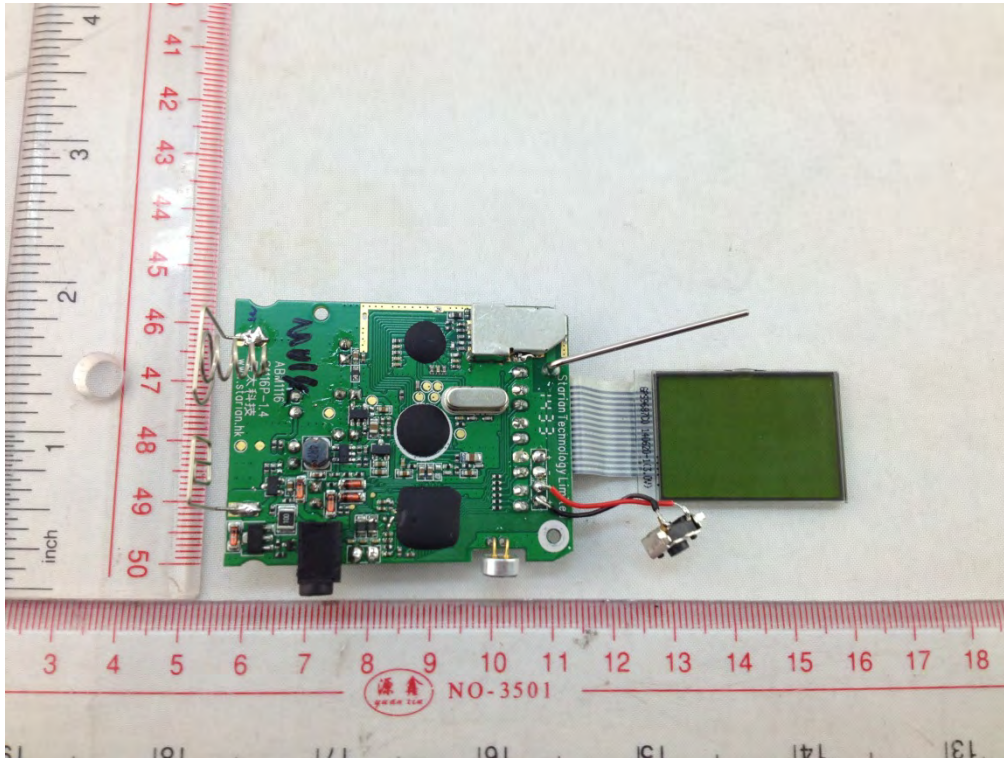
C.2 Inside of the EUT



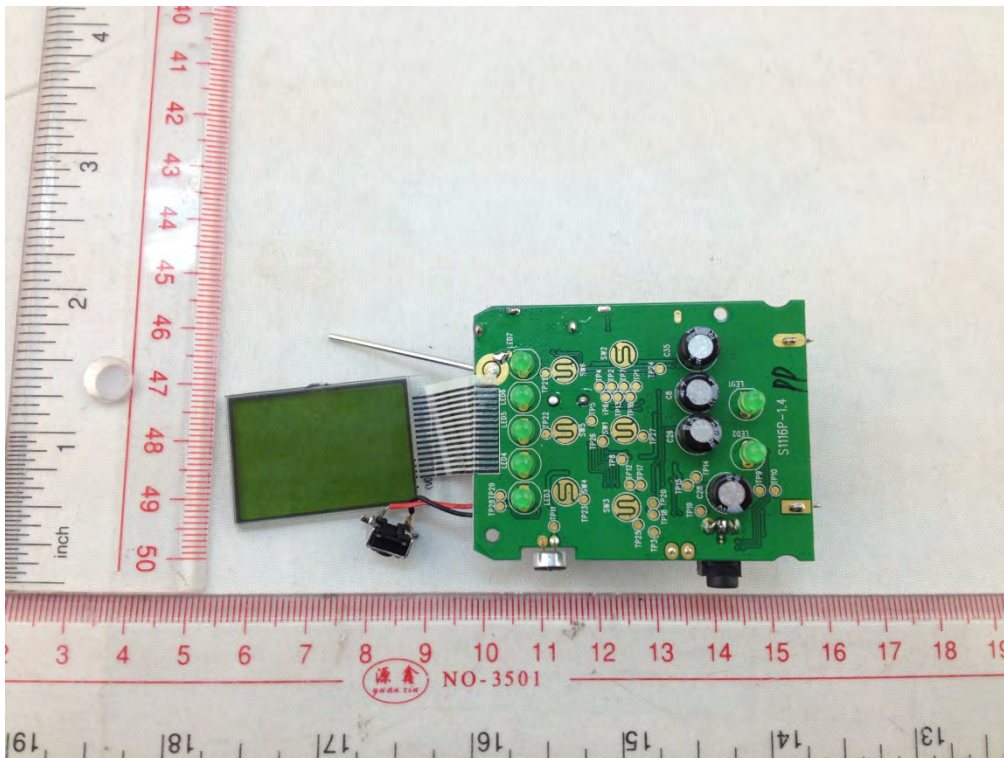
PARENT UNCOVER VIEW 1



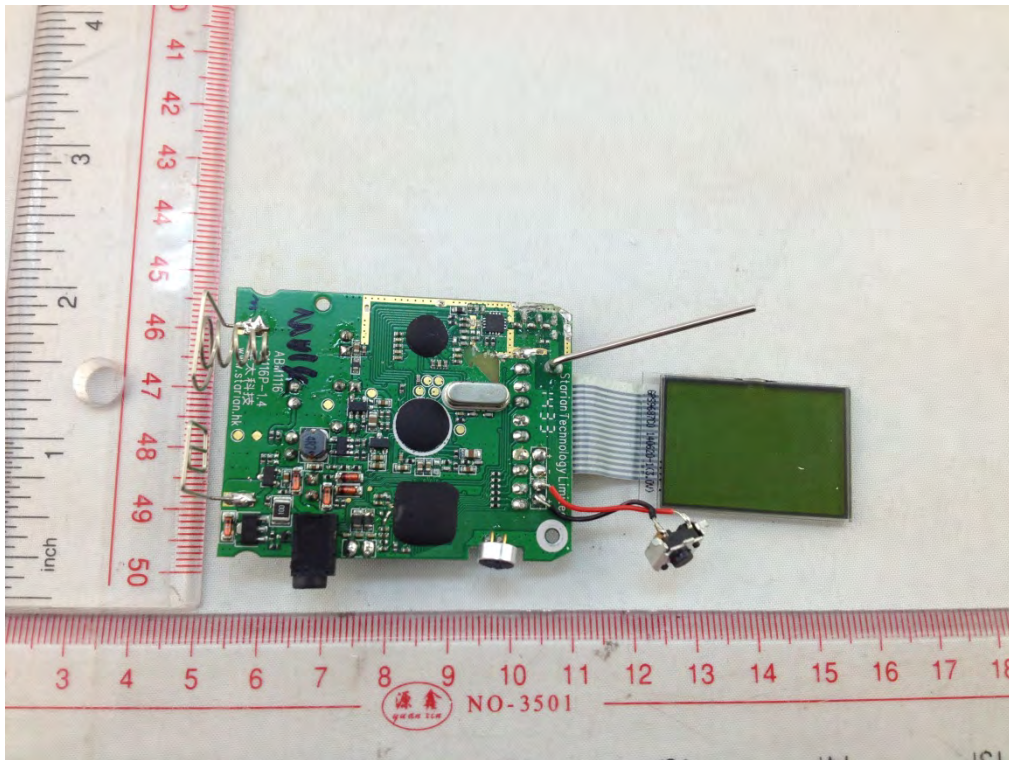
PARENT UNCOVER VIEW 2



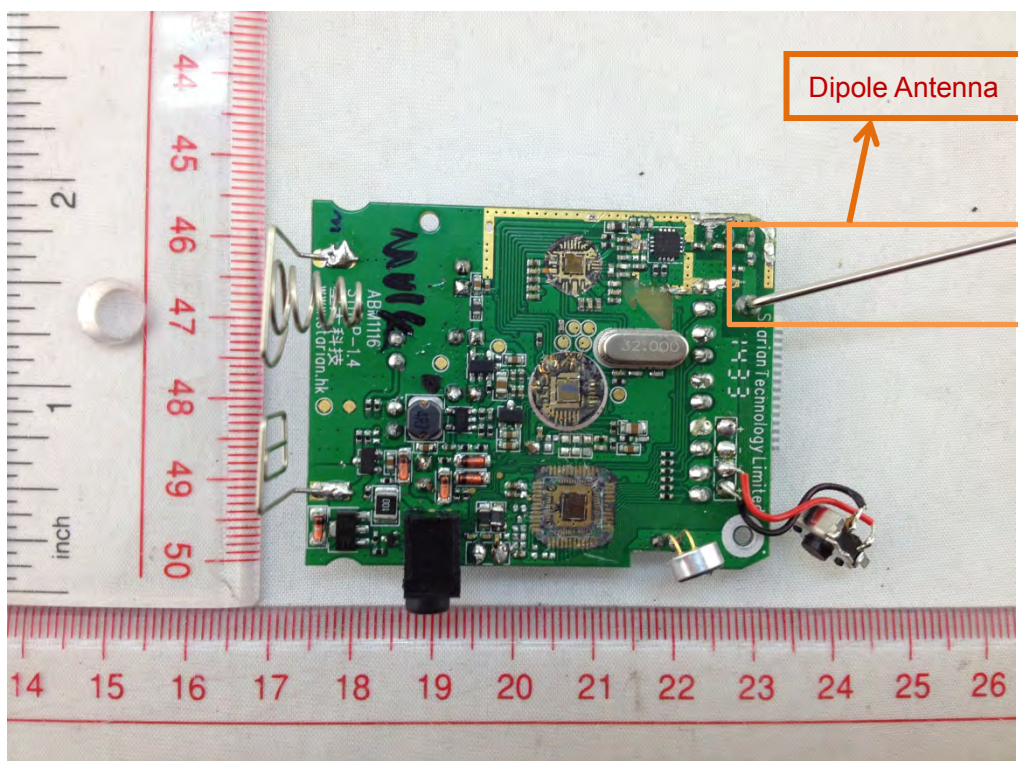
PARENT BOARD TOP VIEW 1



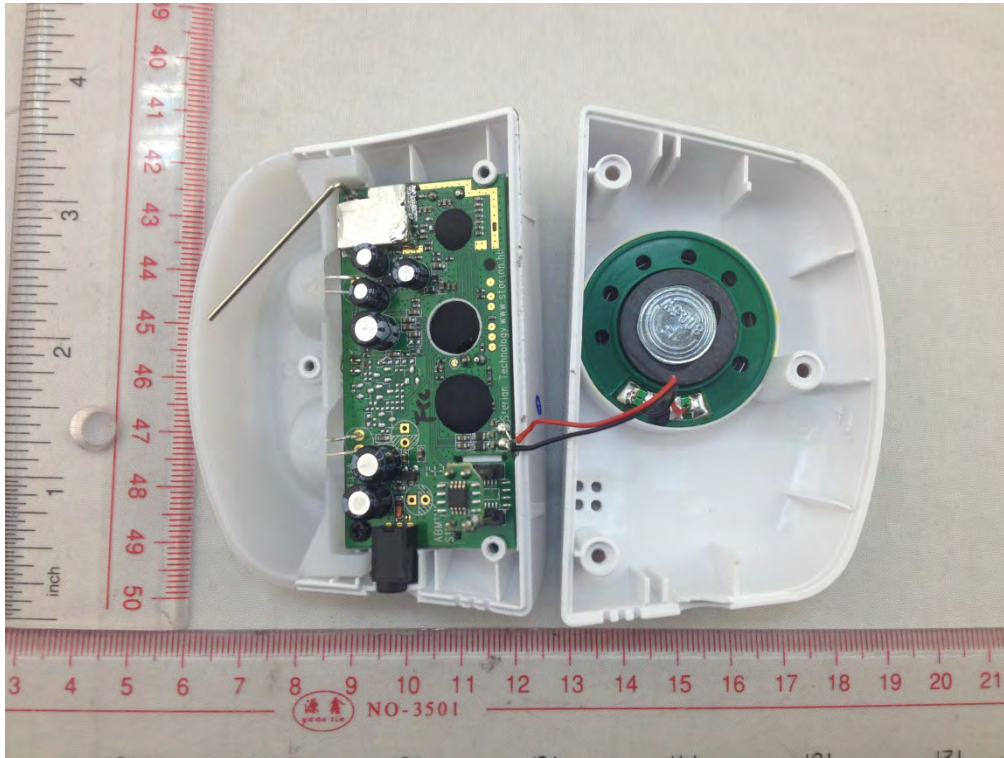
PARENT BOARD BACK VIEW 1



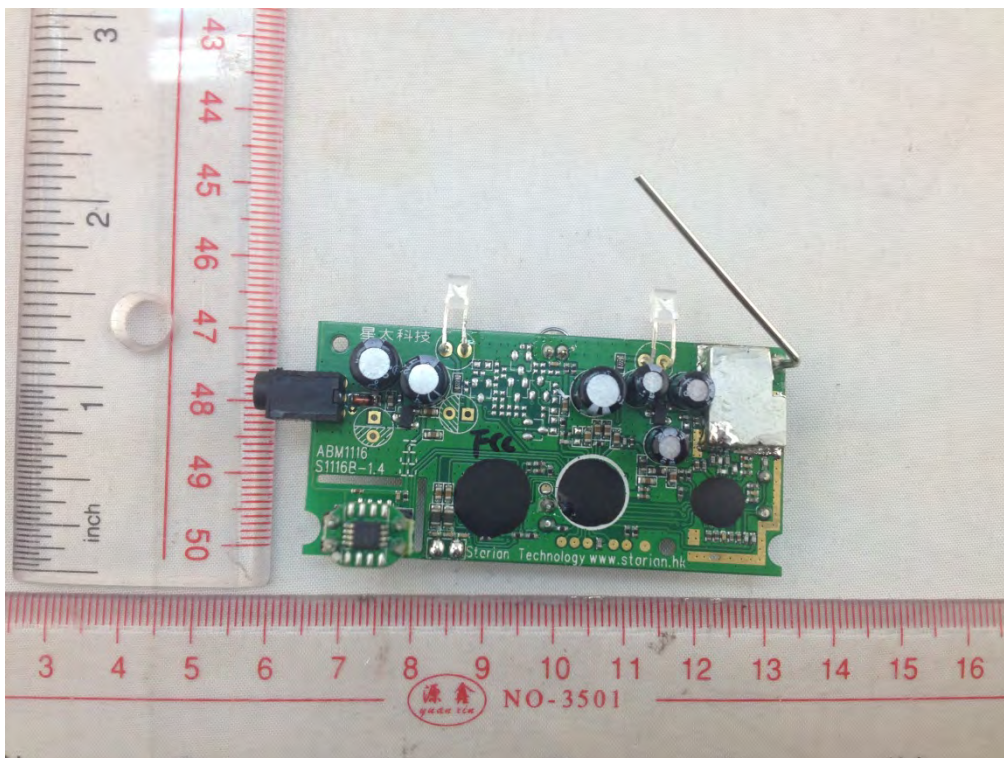
PARENT BOARD TOP VIEW 2



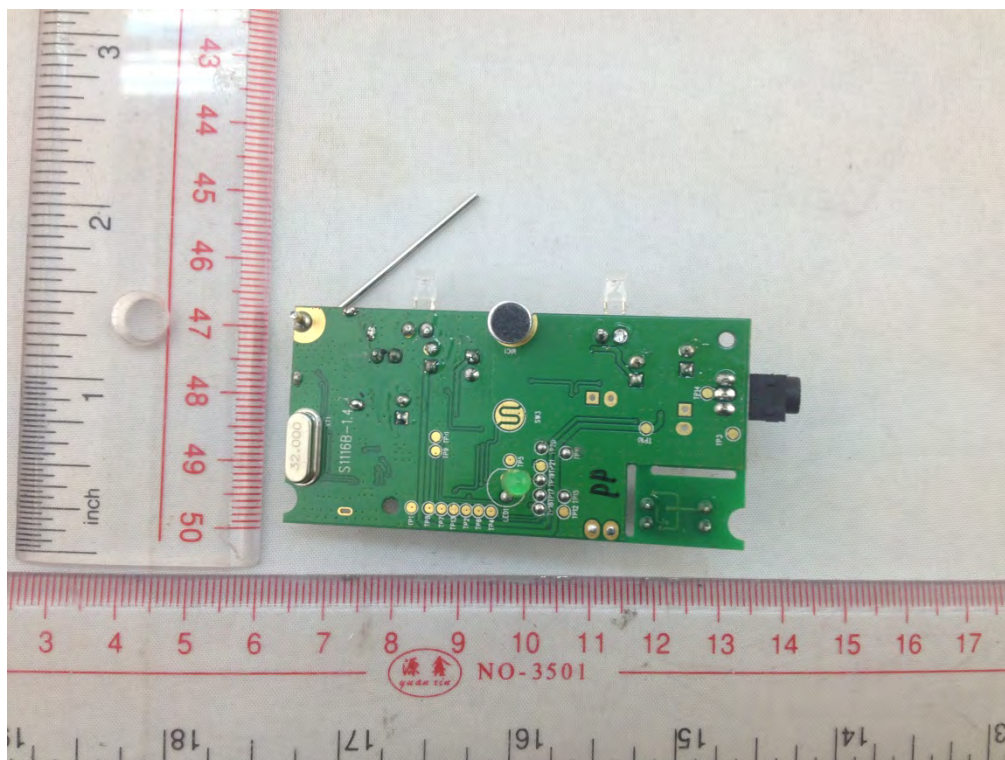
PARENT BOARD TOP VIEW 3



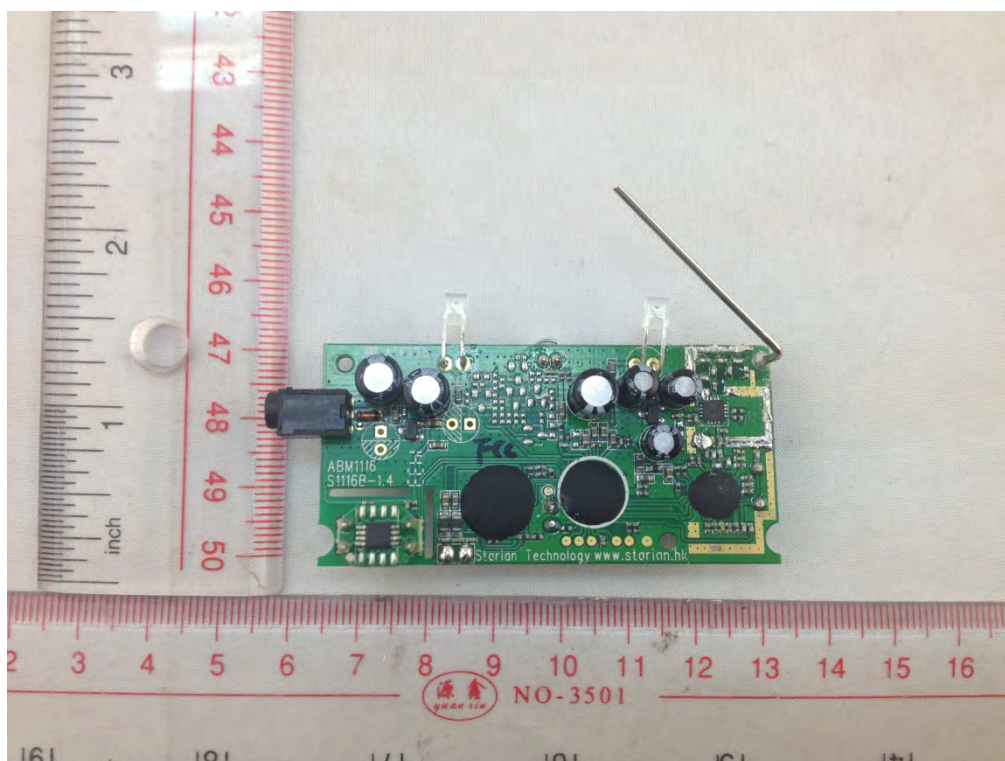
BABY UNCOVER VIEW 1



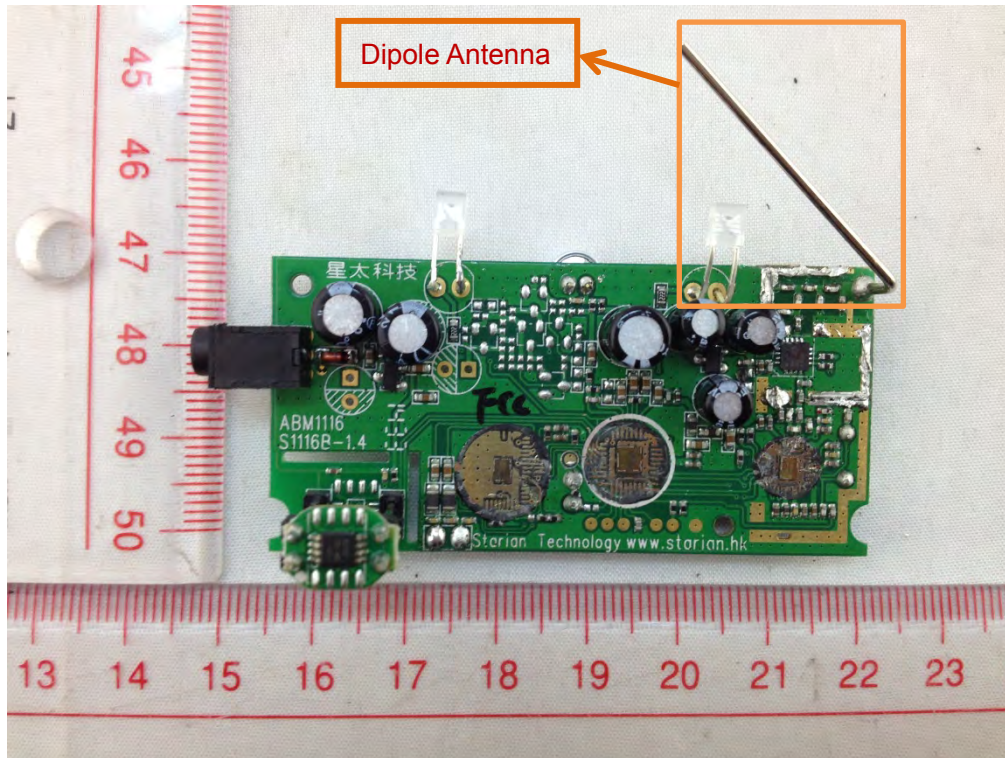
BABY BOARD TOP VIEW 1



BABY BOARD BACK VIEW 1



BABY BOARD TOP VIEW 2



BABY BOARD TOP VIEW 3

--END OF REPORT--