

RF TEST REPORT



Report No.: 15070360-FCC-R

Applicant	Shenzhen omimo Technology Co.,Ltd.	
Product Name	WiFi camera	
Model No.	S530	
Serial No.	N/A	
Test Standard	FCC Part 15.247: 2014, ANSI C63.10: 2013	
Test Date	July 10 to August 14, 2015	
Issue Date	September 21, 2015	
Test Result	☒ Pass ☐ Fail	
Equipment complied with the specification ☒		
Equipment did not comply with the specification ☐		
<i>Winnie Zhang</i>	<i>David Huang</i>	
Winnie Zhang Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

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In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

Test Report No.	15070360-FCC-R
Page	3 of 58

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CONTENTS

1. REPORT REVISION HISTORY	5
2. CUSTOMER INFORMATION	5
3. TEST SITE INFORMATION	5
4. EQUIPMENT UNDER TEST (EUT) INFORMATION	6
5. TEST SUMMARY	8
6. MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
6.1 ANTENNA REQUIREMENT	9
6.2 DTS (6 DB&20 DB) CHANNEL BANDWIDTH	10
6.3 MAXIMUM OUTPUT POWER	16
6.4 POWER SPECTRAL DENSITY	20
6.5 BAND-EDGE & UNWANTED EMISSIONS INTO NON-RESTRICTED FREQUENCY BANDS	24
6.6 AC POWER LINE CONDUCTED EMISSIONS	30
6.7 RADIATED SPURIOUS EMISSIONS	40
ANNEX A. TEST INSTRUMENT	47
ANNEX B. EUT AND TEST SETUP PHOTOGRAPHS	48
ANNEX C. TEST SETUP AND SUPPORTING EQUIPMENT	53
ANNEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PARTLIST	57
ANNEX E. DECLARATION OF SIMILARITY	58

1. Report Revision History

Report No.	Report Version	Description	Issue Date
15070360-FCC-R	NONE	Original	September 21, 2015

2. Customer information

Applicant Name	Shenzhen omimo Technology Co.,Ltd.
Applicant Add	Room1212,Chuangjian Building, No.6023, Shennan Boulevard, Futian District, Shenzhen,China
Manufacturer	Sharetronic Data Technology Co., Ltd.
Manufacturer Add	Weiqiang Technology Park, Yinhe Industrial Estate, Qingxi Town, Dongguan, China

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao' an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT:	WiFi camera
Main Model:	S530
Serial Model:	N/A
Equipment Category :	DTS
Antenna Gain:	WIFI: 2.73 dBi
Input Power:	Adapter 1: Model: TEKA006-0501000UKU Input: AC 100-240V; 50/60Hz 0.3A Output: DC 5.0V; 1A Adapter 2: Model: A31-3762-501000 Input: AC 100-240V; 50/60Hz 0.2A Output: DC 5.0V; 1.0A
Trade Name :	omimo
GPRS/EGPRS Multi-slot class	8/10/12
FCC ID:	2AE6WS530
Max. Output Power:	802.11b: 11.97dBm 802.11g: 8.75dBm 802.11n(20M): 9.37dBm 802.11n(40M): 7.13dBm
Type of Modulation:	802.11b/g/n: DSSS, OFDM
RF Operating Frequency (ies):	WIFI:802.11b/g/n(20M): 2412-2462 MHz WIFI:802.11n(40M): 2422-2452 MHz
Number of Channels:	WIFI :802.11b/g/n(20M): 11CH WIFI :802.11n(40M): 7CH

Test Report No.	15070360-FCC-R
Page	7 of 58

Port: USB Port

GPRS/EGPRS Multi-slot class 8/10/12

5. Test Summary

The product was tested in accordance with the following specifications.

All testing has been performed according to below product classification:

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.247 (a)(2)	DTS (6 dB&20 dB) CHANNEL BANDWIDTH	Compliance
§15.247(b)(3)	Conducted Maximum Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247(d)	Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands	Compliance
§15.207 (a),	AC Power Line Conducted Emissions	Compliance
§15.205, §15.209, §15.247(d)	Radiated Spurious Emissions & Unwanted Emissions into Restricted Frequency Bands	Compliance

Measurement Uncertainty

Emissions		
Test Item	Description	Uncertainty
Band Edge and Radiated Spurious Emissions	Confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2 (for EUTs < 0.5m X 0.5m X 0.5m)	+5.6dB/-4.5dB
-	-	-

6. Measurements, Examination And Derived Results

6.1 Antenna Requirement

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT has 1 antennas:

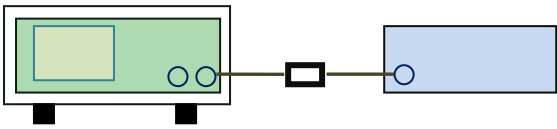
A permanently attached PCB antenna for WIFI, the gain is 2.73dBi for WIFI.

The antenna meets up with the ANTENNA REQUIREMENT.

Result: Compliance.

6.2 DTS (6 dB&20 dB) Channel Bandwidth

Temperature	25 °C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	July 16, 2015
Tested By :	Winnie Zhang

Spec	Item	Requirement	Applicable
§ 15.247(a)(2)	a)	6dB BW $\geq$ 500kHz; 20dB BW $\geq$ 500kHz;	☒
	b)	99% BW: For FCC reference only; required by IC.	☒
Test Setup	 Spectrum Analyzer EUT		
Test Procedure	558074 D01 DTS MEAS Guidance v03r02, 8.1 DTS bandwidth <u>6dB bandwidth</u> - Set RBW = 100 kHz. - Set the video bandwidth (VBW) $\geq 3 \times$ 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. <u>20dB bandwidth</u> C63.10 Occupied Bandwidth (OBW=20dB bandwidth) - Set RBW = 1%-5% OBW. - Set the video bandwidth (VBW) $\geq 3 \times$ RBW. - Set the span range between 2 times and 5 times of the OBW. - Sweep time=Auto, Detector=PK, Trace=Max hold. - Once the reference level is established, the equipment is conditioned with typical modulating signals to produce the worst-		

	case (i.e., the widest) bandwidth. Unless otherwise specified for an unlicensed wireless device, measure the bandwidth at the 20 dB levels with respect to the reference level.
Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

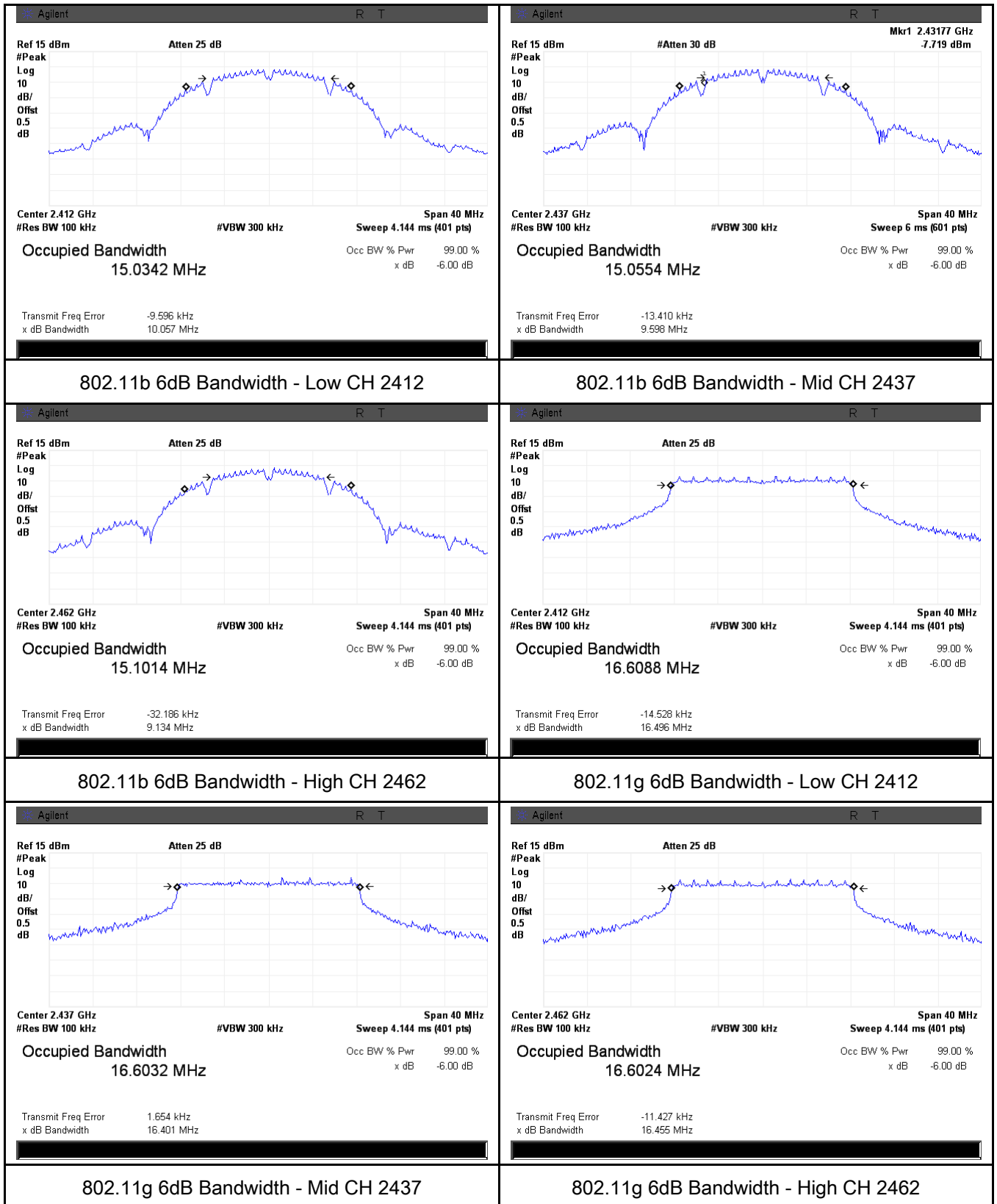
Test Plot ☒ Yes (See below) ☐ N/A

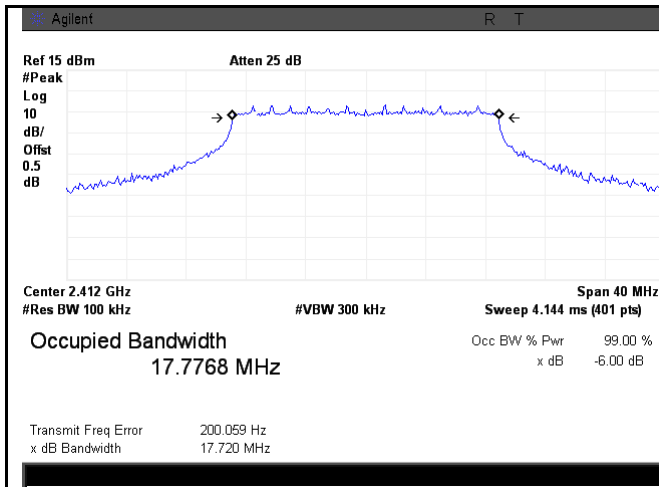
Measurement result

Test mode	CH	Freq (MHz)	6dB Bandwidth (MHz)	20dB Bandwidth (MHz)	Limit (MHz)
802.11b	Low	2412	10.057	17.324	≥ 0.5
	Mid	2437	9.598	17.291	≥ 0.5
	High	2462	9.134	17.351	≥ 0.5
802.11g	Low	2412	16.496	21.411	≥ 0.5
	Mid	2437	16.401	20.682	≥ 0.5
	High	2462	16.455	21.376	≥ 0.5
802.11n (20M)	Low	2412	17.720	22.024	≥ 0.5
	Mid	2437	17.708	22.692	≥ 0.5
	High	2462	17.696	22.232	≥ 0.5
802.11n (40M)	Low	2422	35.300	38.635	≥ 0.5
	Mid	2437	35.304	38.498	≥ 0.5
	High	2452	36.300	38.459	≥ 0.5

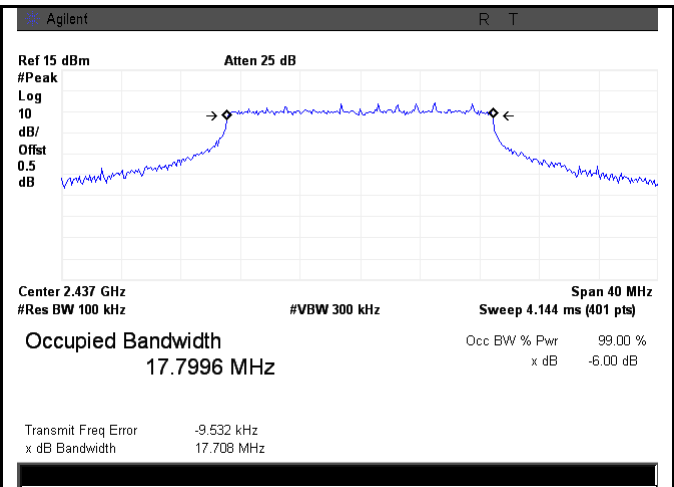
Test Plots

6dB Bandwidth measurement result

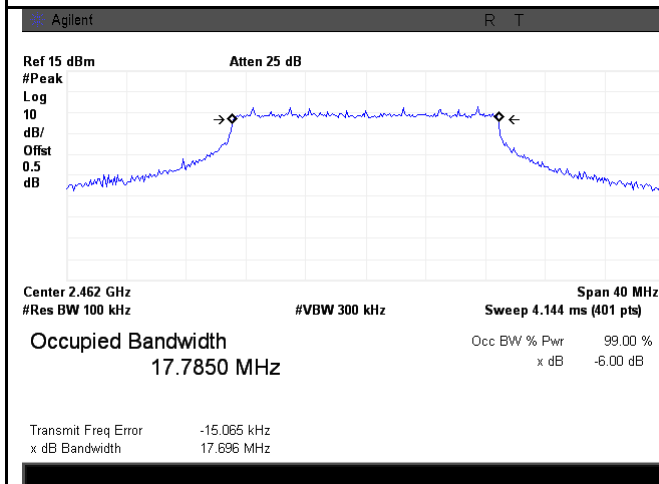




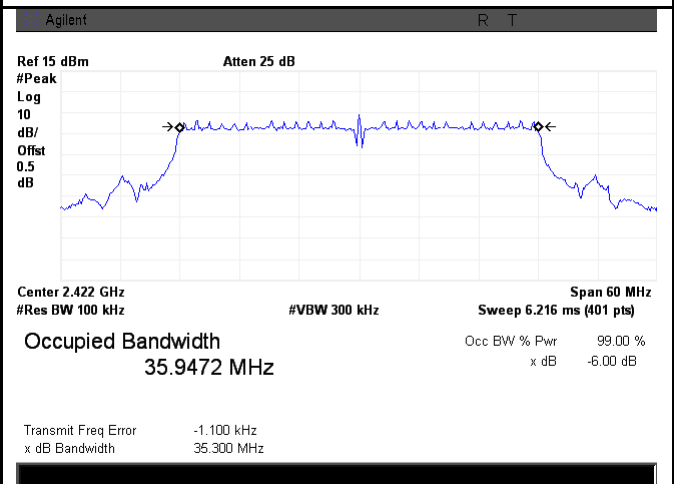
802.11n20 6dB Bandwidth - Low CH 2412



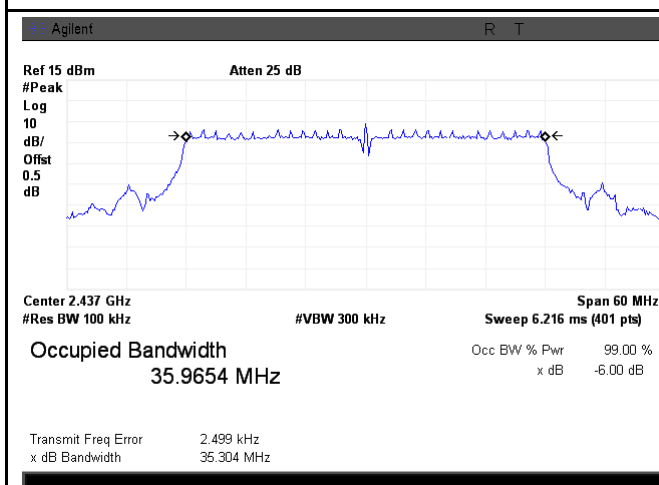
802.11n20 6dB Bandwidth - Mid CH 2437



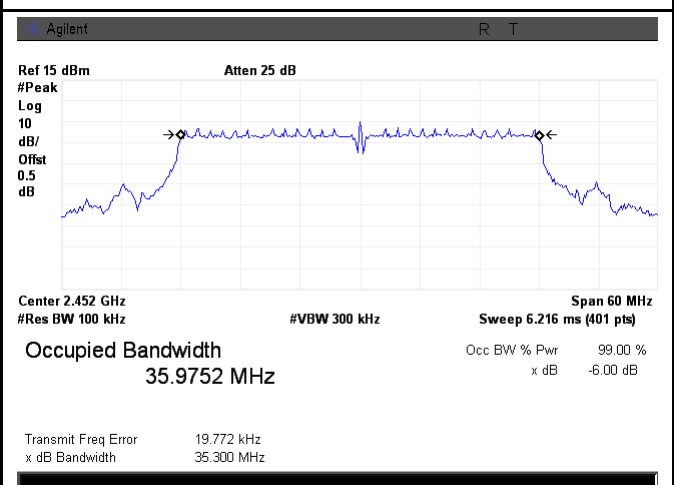
802.11n20 6dB Bandwidth - High CH 2462



802.11n40 6dB Bandwidth - Low CH 2422

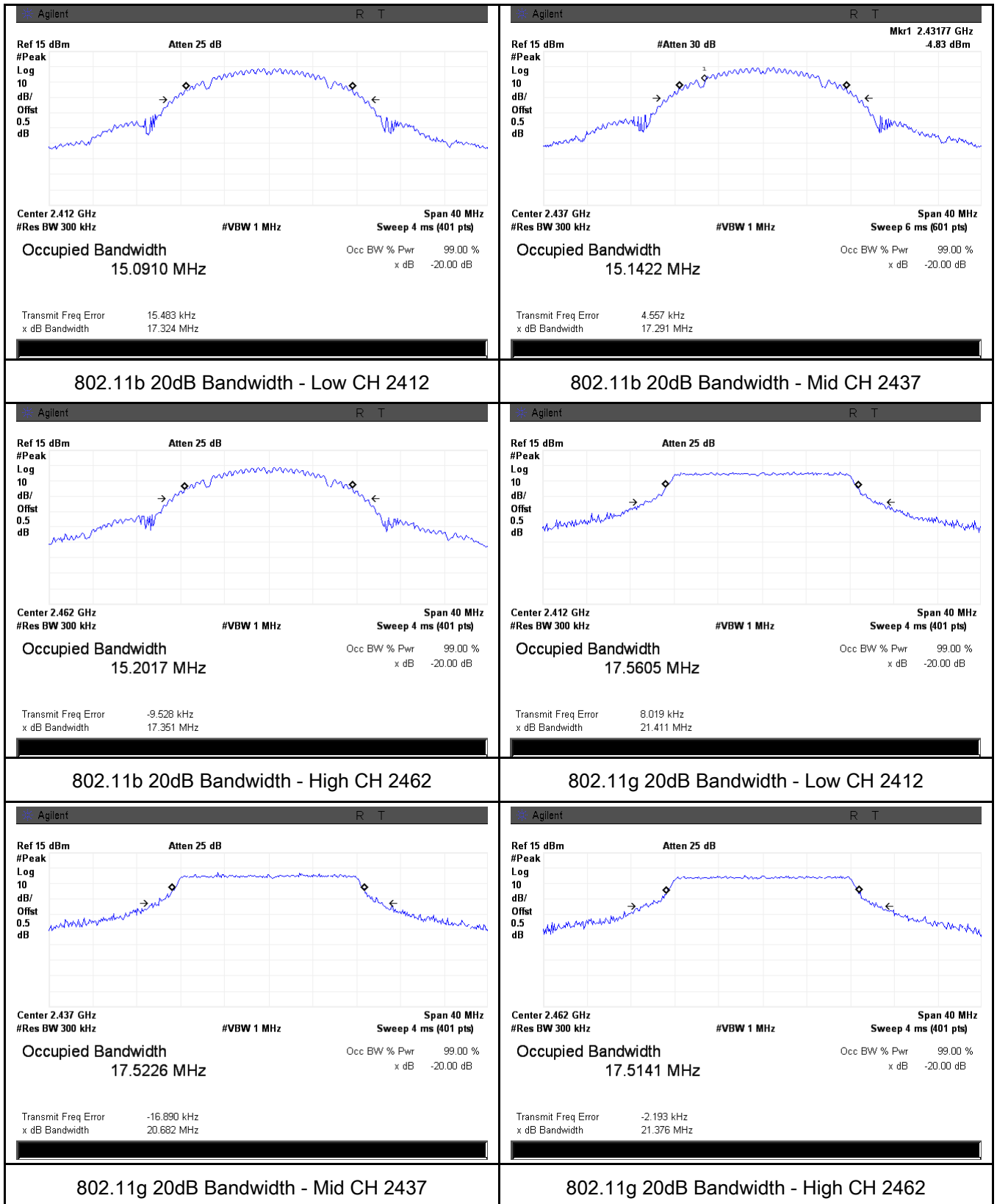


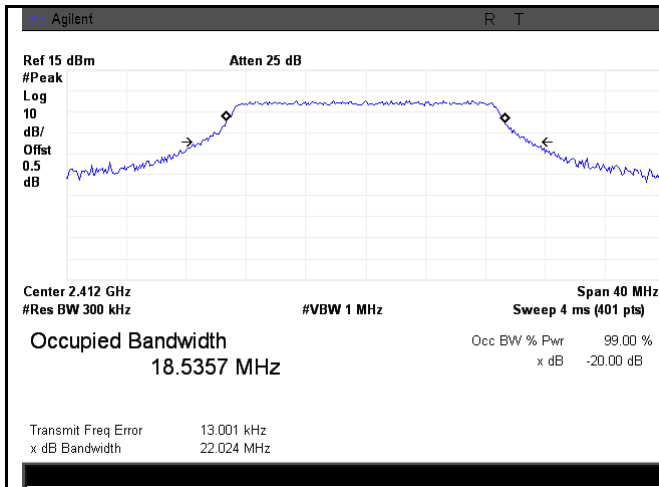
802.11n40 6dB Bandwidth - Mid CH 2437



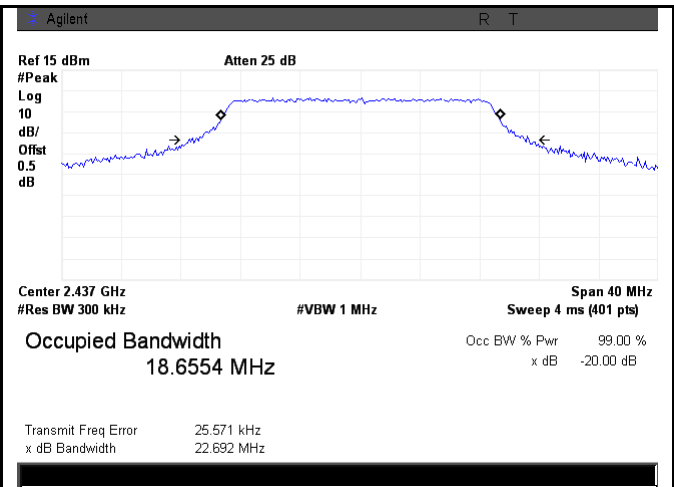
802.11n40 6dB Bandwidth - High CH 2452

20 dB Bandwidth measurement result

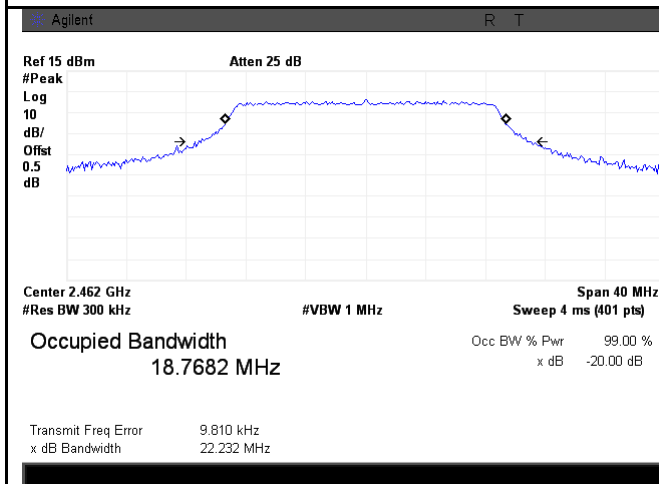




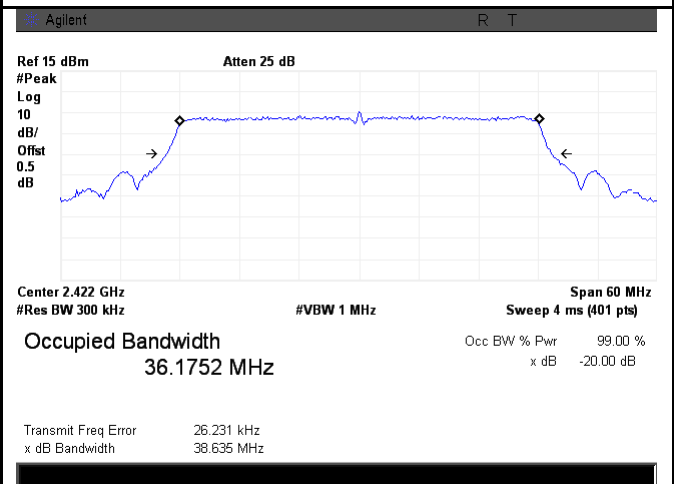
802.11n20 20dB Bandwidth - Low CH 2412



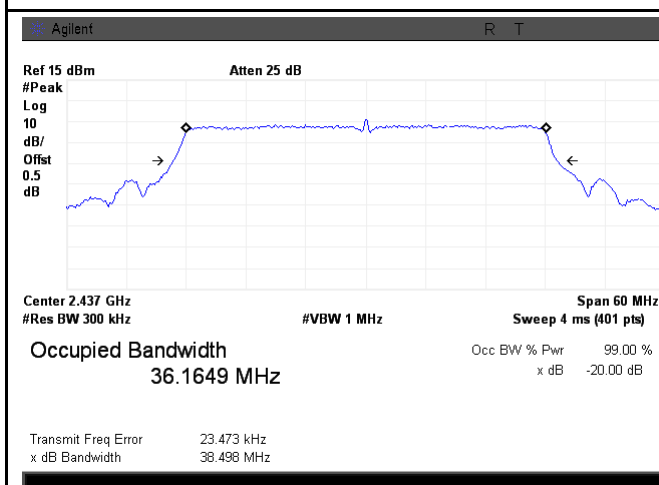
802.11n20 20dB Bandwidth - Mid CH 2437



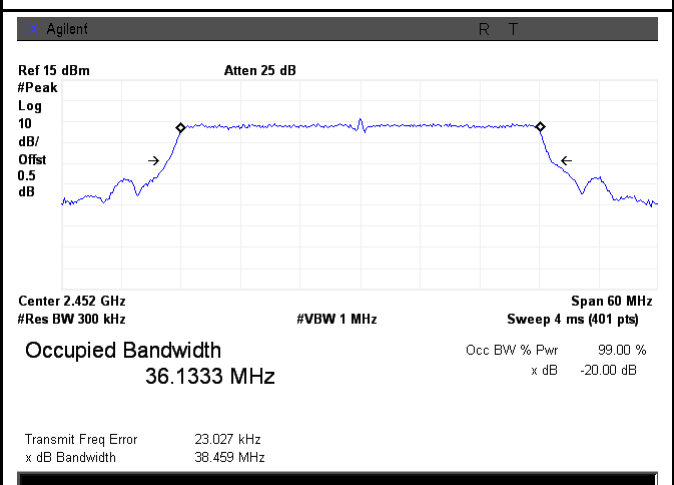
802.11n20 20dB Bandwidth - High CH 2462



802.11n40 20dB Bandwidth - Low CH 2422



802.11n40 20dB Bandwidth - Mid CH 2437

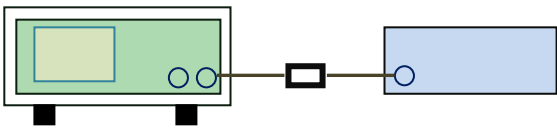


802.11n40 20dB Bandwidth - High CH 2452

6.3 Maximum Output Power

Temperature	25 °C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	July 16, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(b) (2),	a)	FHSS in 2400-2483.5MHz with ≥ 75 channels: ≤ 1 Watt	☐
	b)	FHSS in 5725-5850MHz: ≤ 1 Watt	☐
	c)	For all other FHSS in the 2400-2483.5MHz band: ≤ 0.125 Watt.	☐
	d)	FHSS in 902-928MHz with ≥ 50 channels: ≤ 1 Watt	☐
	e)	FHSS in 902-928MHz with ≥ 25 & < 50 channels: ≤ 0.25 Watt	☐
	f)	DSSS in 902-928MHz, 2400-2483.5MHz, 5725-5850MHz: ≤ 1 Watt	☒
Test Setup	 Spectrum Analyzer EUT		
Test Procedure	558074 D01 DTS MEAS Guidance v03r02, 9.1.2 Integrated band power method Maximum output power measurement procedure - a) Set span to at least 1.5 times the OBW. - b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz. - c) Set VBW $\geq 3 \times$ RBW. - d) Number of points in sweep $\geq 2 \times$ span / RBW. (This gives bin-to-bin spacing $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.) - e) Sweep time = auto. - f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode. - g) If transmit duty cycle $< 98\%$, use a sweep trigger with the level set to enable		

Test Report No.	15070360-FCC-R
Page	17 of 58

	triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle $\geq 98\%$, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run". - h) Trace average at least 100 traces in power averaging (i.e., RMS) mode. - i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.
Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

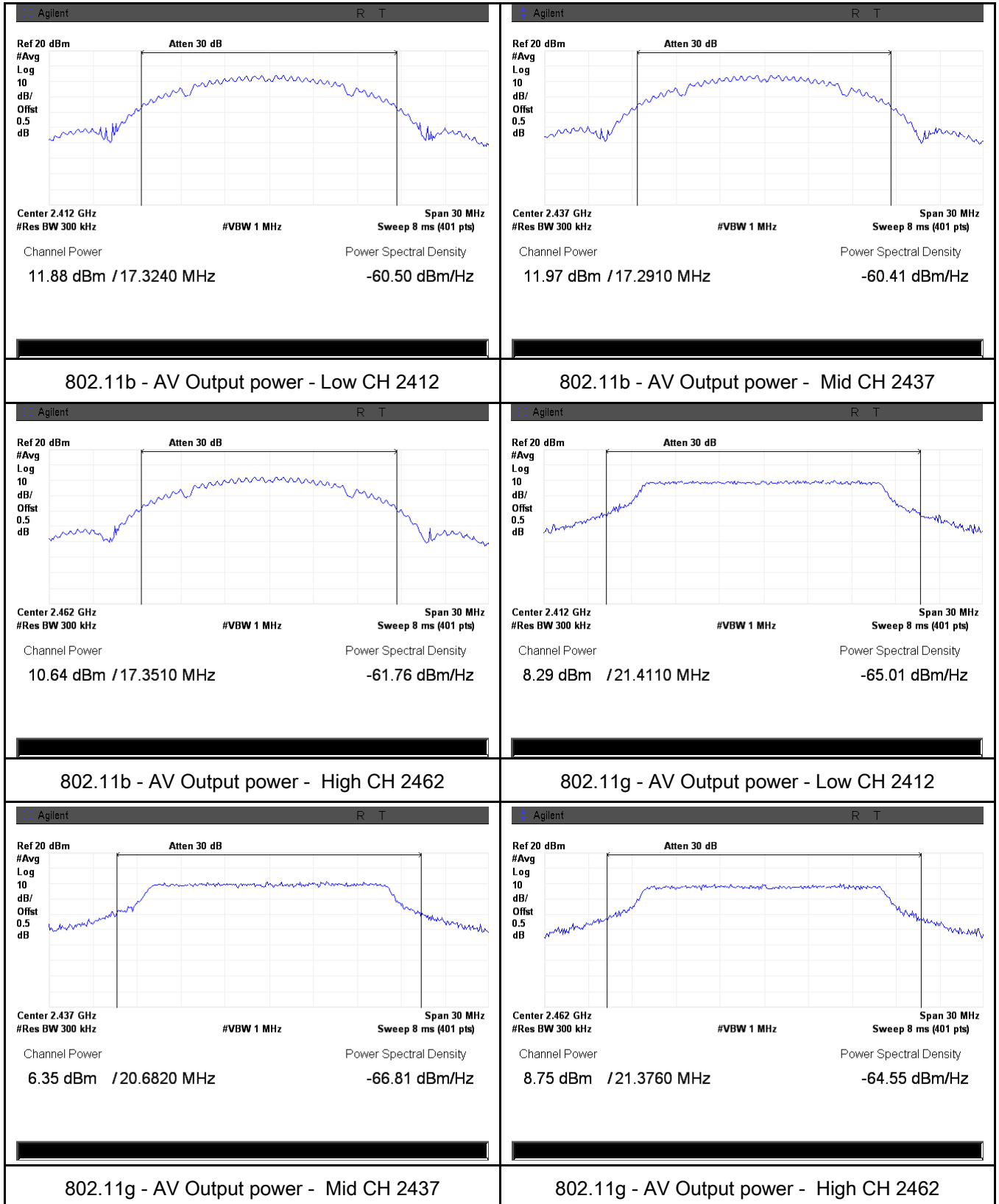
Test Plot ☒ Yes (See below) ☐ N/A

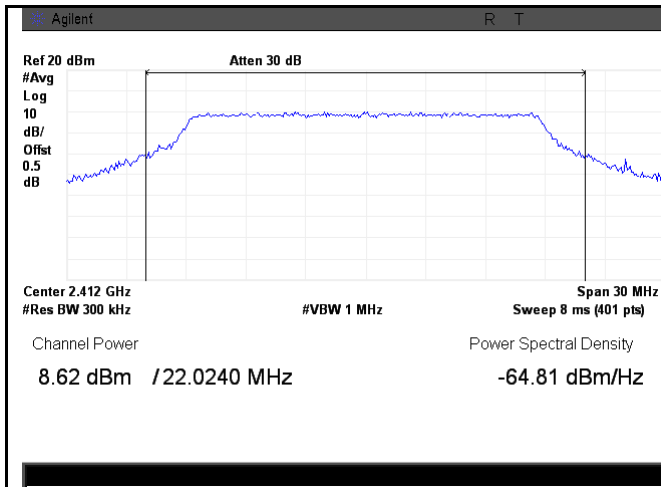
Output Power measurement result

Type	Test mode	CH	Freq (MHz)	Conducted Power (dBm)	Limit (dBm)	Result
Output power	802.11b	Low	2412	11.88	30	Pass
		Mid	2437	11.97	30	Pass
		High	2462	10.64	30	Pass
	802.11g	Low	2412	8.29	30	Pass
		Mid	2437	6.35	30	Pass
		High	2462	8.75	30	Pass
	802.11n (20M)	Low	2412	8.62	30	Pass
		Mid	2437	9.37	30	Pass
		High	2462	8.84	30	Pass
	802.11n (40M)	Low	2422	7.06	30	Pass
		Mid	2437	7.13	30	Pass
		High	2452	6.33	30	Pass

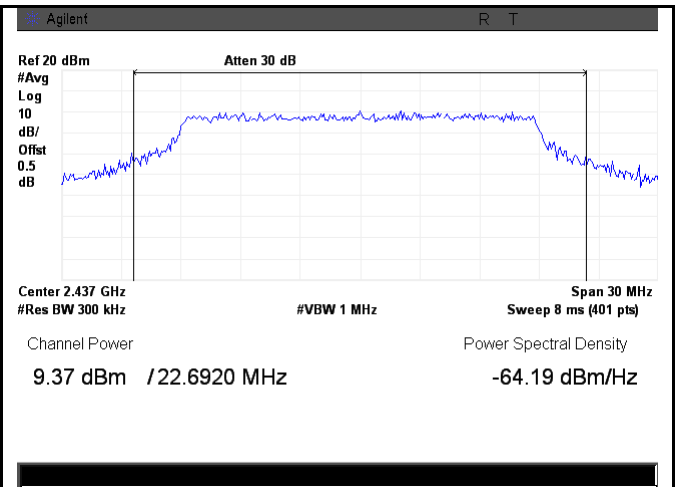
Test Plots

The Average Power

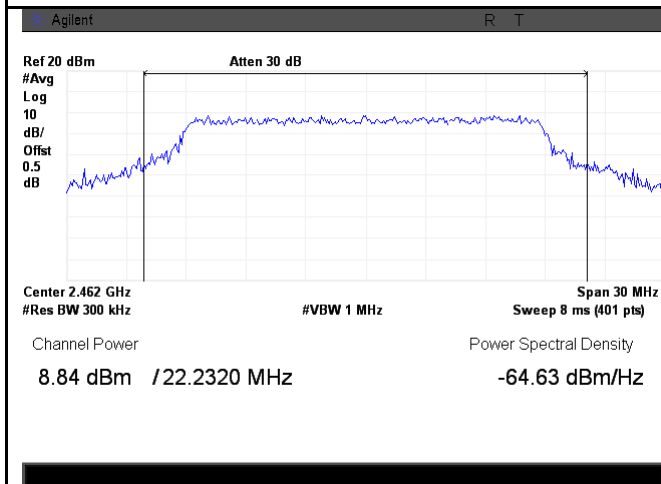




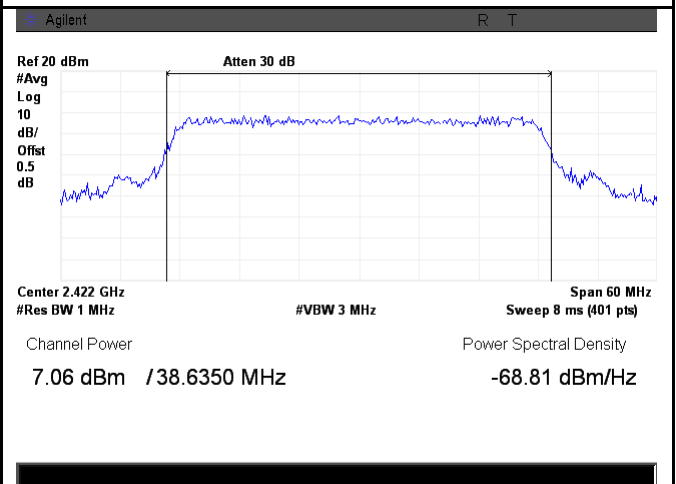
802.11n20 - AV Output power - Low CH 2412



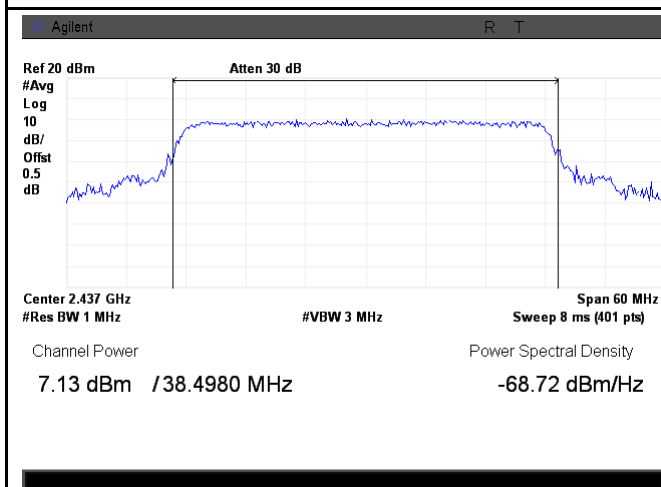
802.11n20 - AV Output power - Mid CH 2437



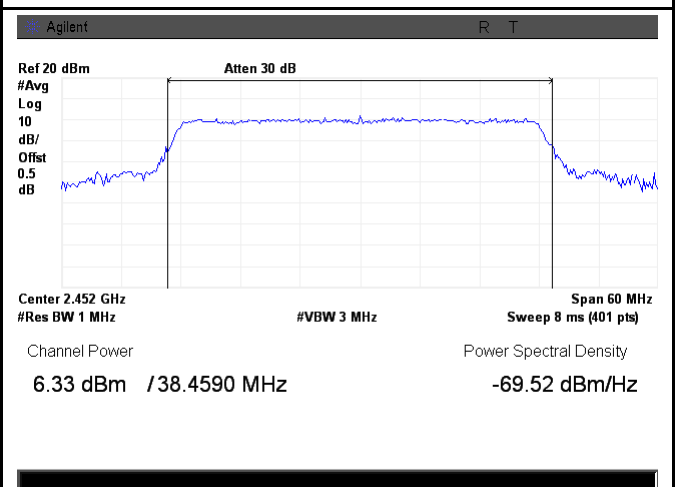
802.11n20 - AV Output power - High CH 2462



802.11n40 - AV Output power - Low CH 2422



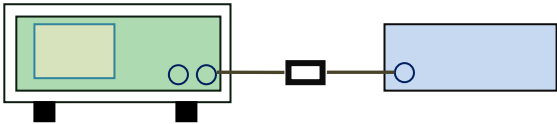
802.11n40 - AV Output power - Mid CH 2437



802.11n40 - AV Output power - High CH 2452

6.4 Power Spectral Density

Temperature	25 °C
Relative Humidity	58%
Atmospheric Pressure	1016mbar
Test date :	July 16, 2015
Tested By :	Winnie Zhang

Spec	Item	Requirement	Applicable
§15.247(e)	a)	The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.	☒
Test Setup	 Spectrum Analyzer EUT		
Test Procedure	558074 D01 DTS MEAS Guidance v03r02, 10.2 power spectral density method power spectral density measurement procedure - a) Set analyzer center frequency to DTS channel center frequency. - b) Set the span to 1.5 times the DTS bandwidth. - c) Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$. - d) Set the VBW $\geq 3 \times \text{RBW}$. - e) Detector = peak. - f) Sweep time = auto couple. - g) Trace mode = max hold. - h) Allow trace to fully stabilize. - i) Use the peak marker function to determine the maximum amplitude level within the RBW. - j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.		
Remark			
Result	☒ Pass ☐ Fail		

Test Data ☒ Yes ☐ N/A

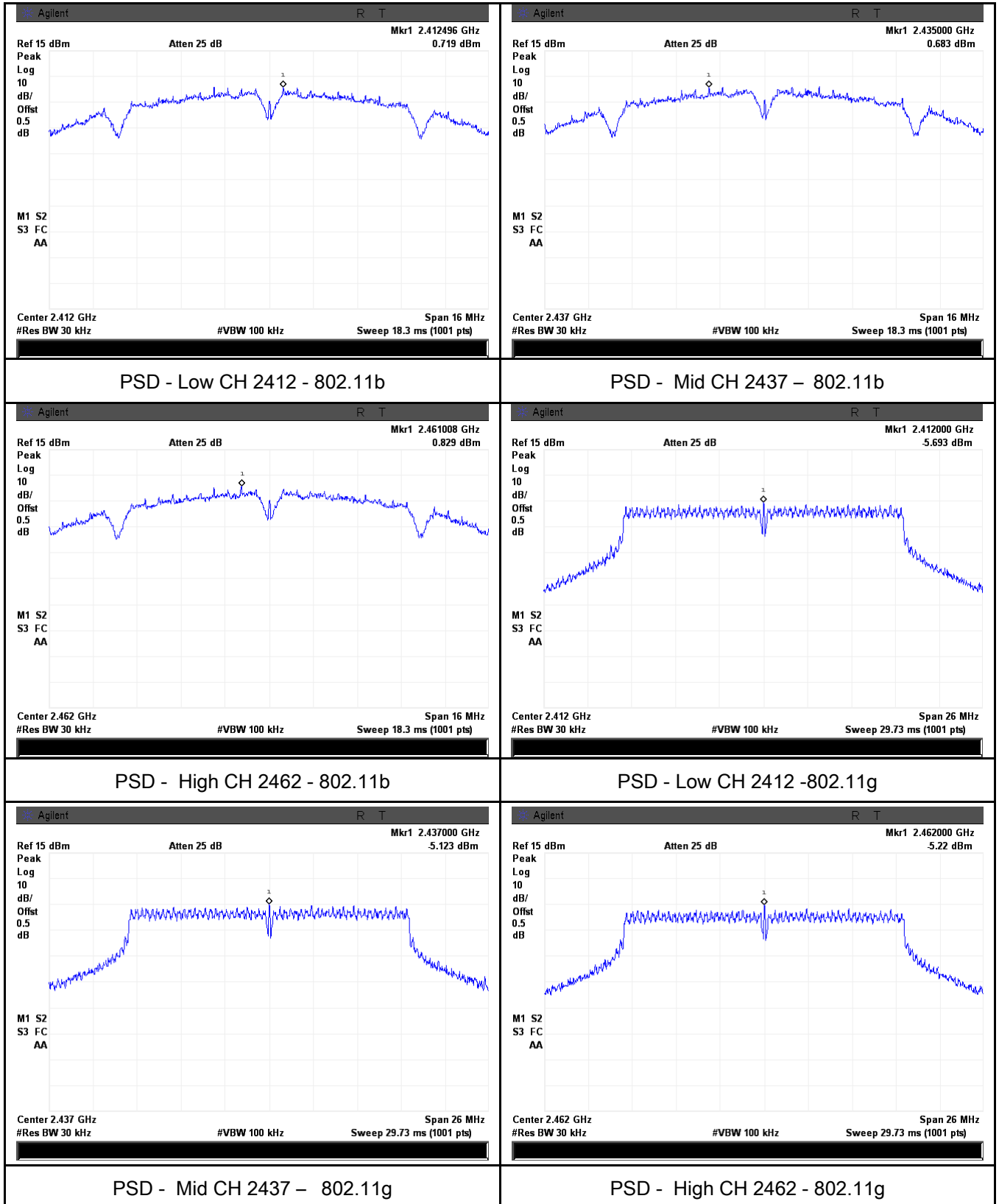
Test Plot ☒ Yes (See below) ☐ N/A

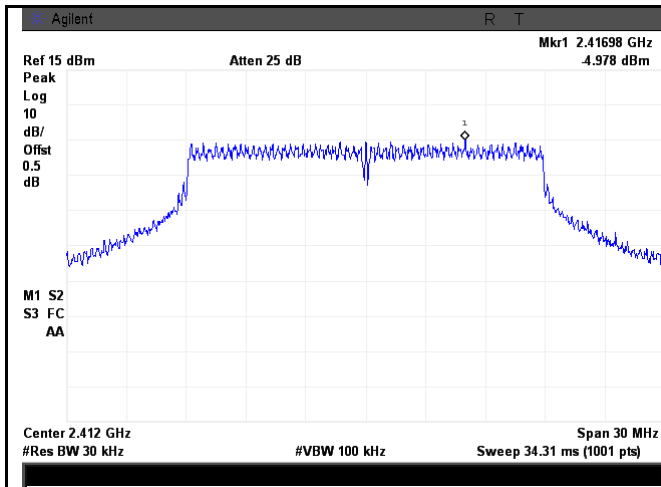
Power Spectral Density measurement result

Type	Test mode	CH	Freq (MHz)	PSD (dBm)	Limit (dBm)	Result
PSD	802.11b	Low	2412	0.719	8	Pass
		Mid	2437	0.683	8	Pass
		High	2462	0.829	8	Pass
	802.11g	Low	2412	-5.693	8	Pass
		Mid	2437	-5.123	8	Pass
		High	2462	-5.220	8	Pass
	802.11n (20M)	Low	2412	-4.978	8	Pass
		Mid	2437	-4.212	8	Pass
		High	2462	-5.533	8	Pass
	802.11n (40M)	Low	2422	-6.020	8	Pass
		Mid	2437	-5.887	8	Pass
		High	2452	-5.384	8	Pass

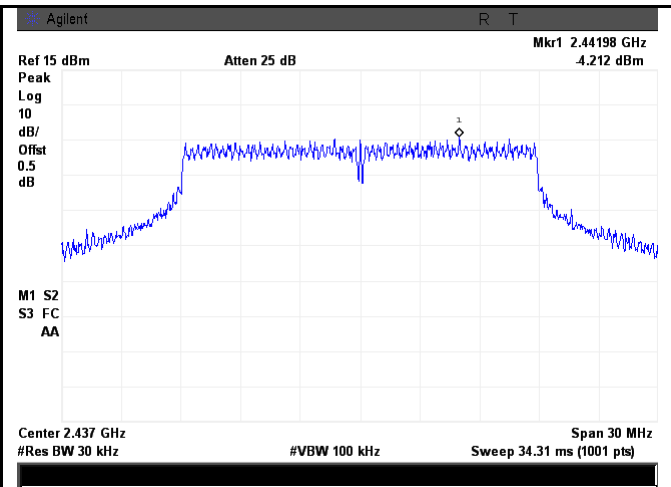
Test Plots

Power Spectral Density measurement result

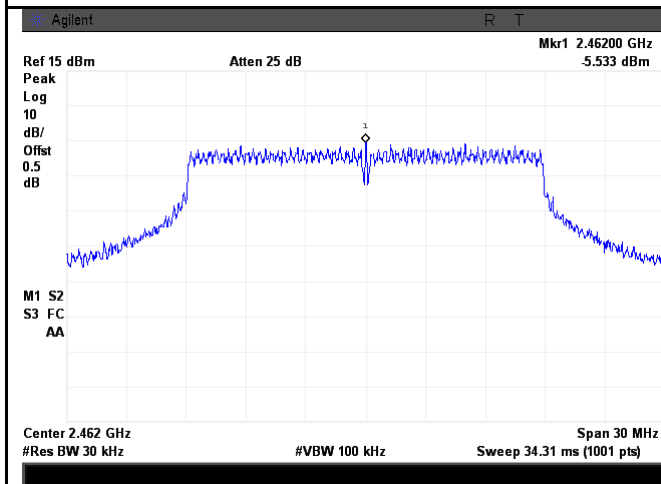




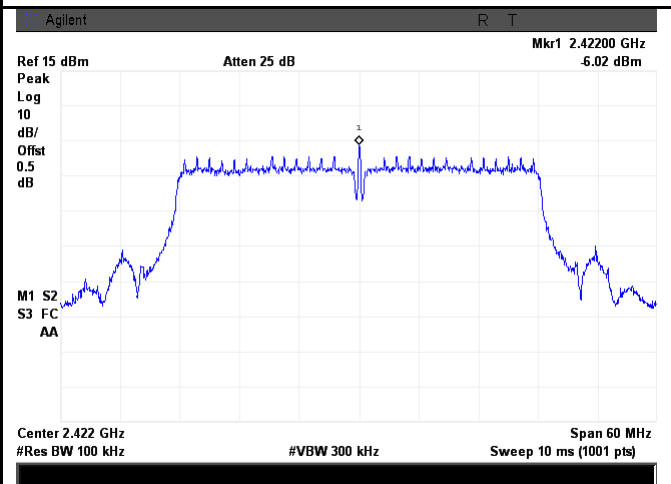
PSD - Low CH 2412 - 802.11n20



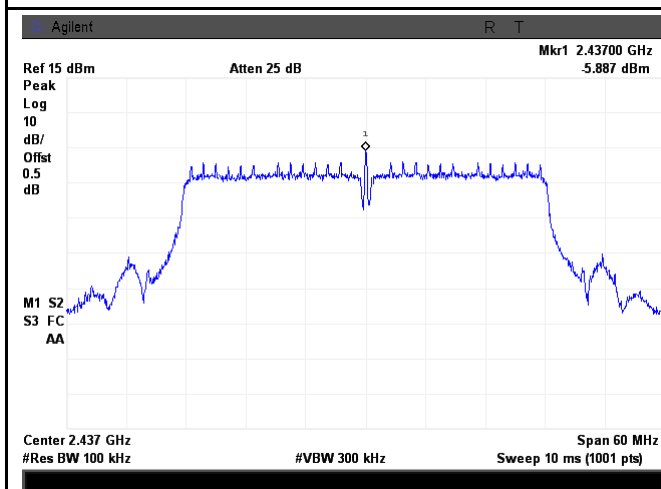
PSD - Mid CH 2437 - 802.11n20



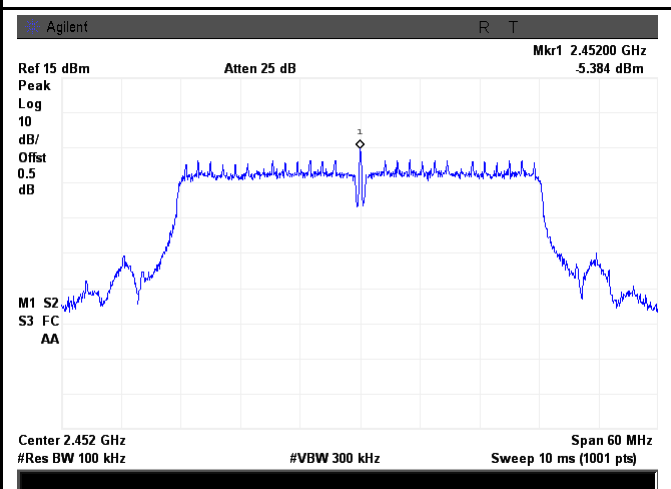
PSD - High CH 2462 - 802.11n20



PSD - Low CH 2422 - 802.11n40



PSD - Mid CH 2437 - 802.11n40

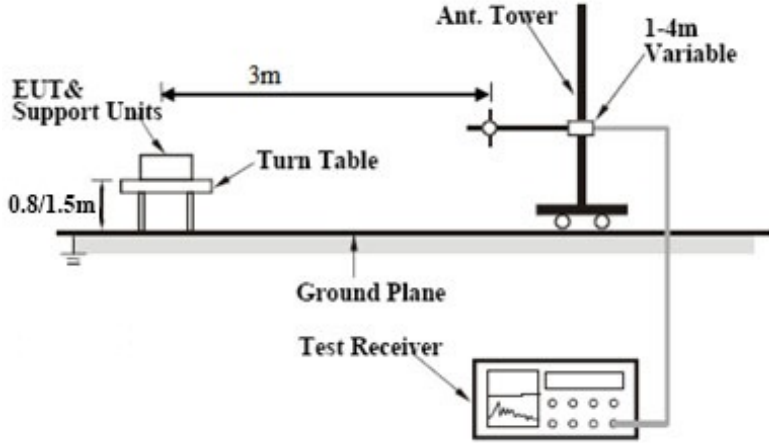


PSD - High CH 2462 - 802.11n40

6.5 Band-Edge & Unwanted Emissions into Non-Restricted Frequency Bands

Temperature	25 °C
Relative Humidity	52%
Atmospheric Pressure	1028mbar
Test date :	July 28, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable
§15.247(d)	a)	In any 100 kHz 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 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.	☒
Test Setup			
Test Procedure	Radiated Method Only 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator. 2. Position the EUT without connection to measurement instrument. Put it on the Rotated table and turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.		

Test Report No.	15070360-FCC-R
Page	25 of 58

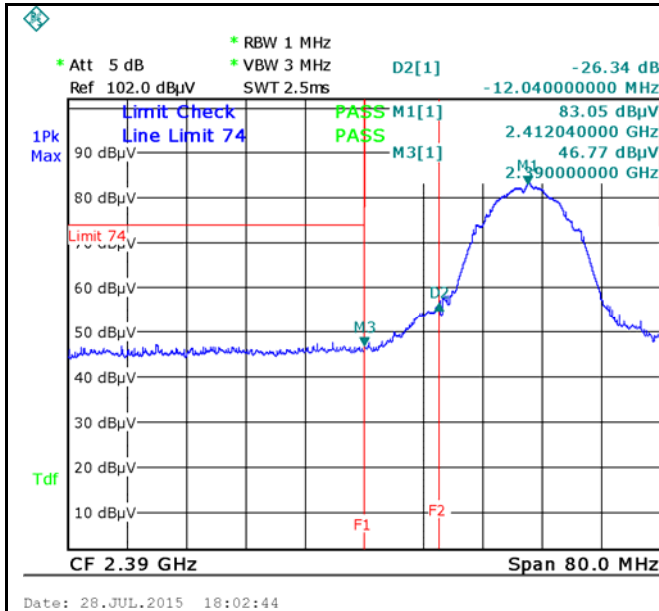
	- 3. First, set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge, check the emission of EUT, if pass then set Spectrum Analyzer as below: a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasiy Peak detection at frequency below 1GHz. b. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz. - 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency. - 5. Repeat above procedures until all measured frequencies were complete.
Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

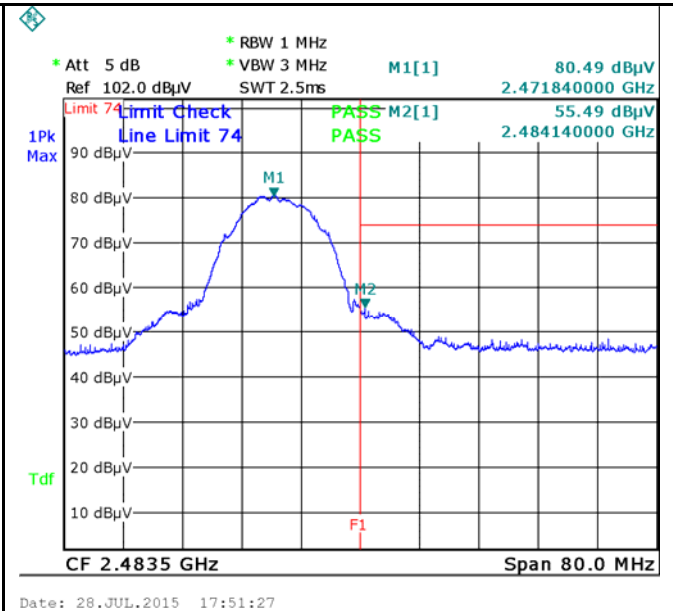
Test Plots

Band Edge measurement result



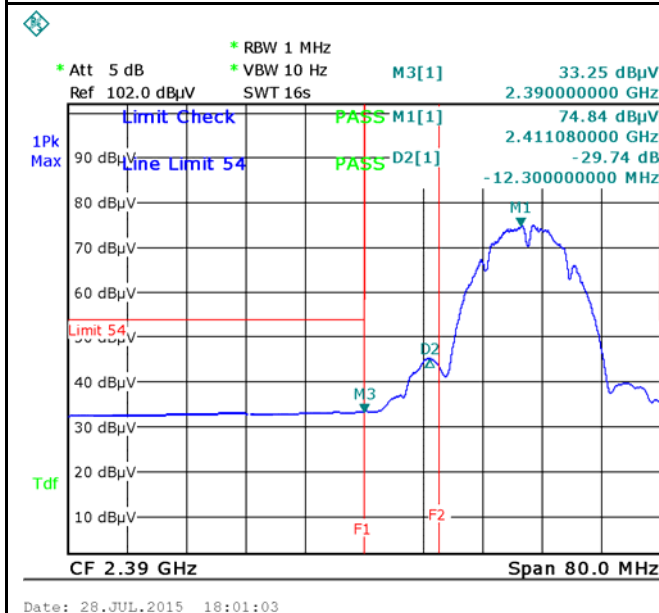
Band Edge, Left Side (Peak) - 802.11b

Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



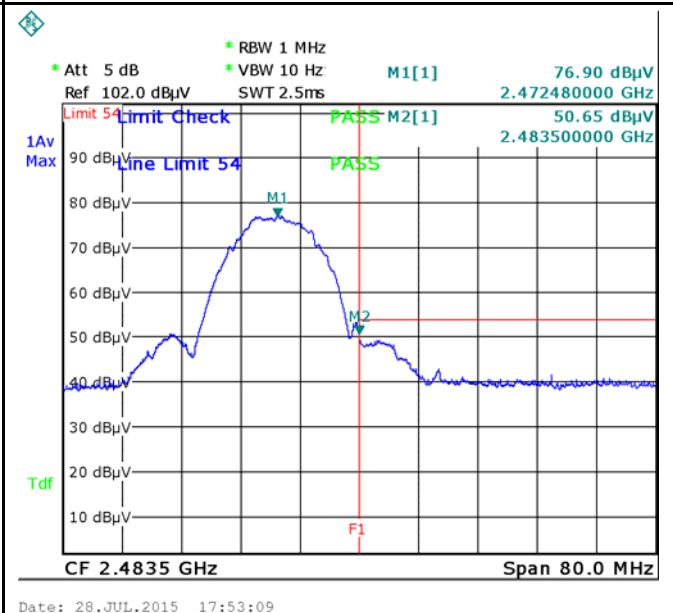
Band Edge, Right Side (Peak) - 802.11b

Note: F1 is frequency 2483.5MHz



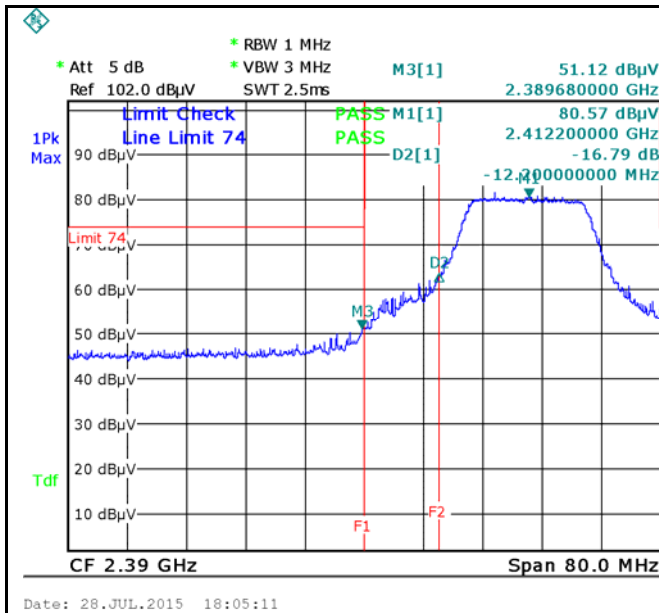
Band Edge, Left Side (Average) - 802.11b

Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



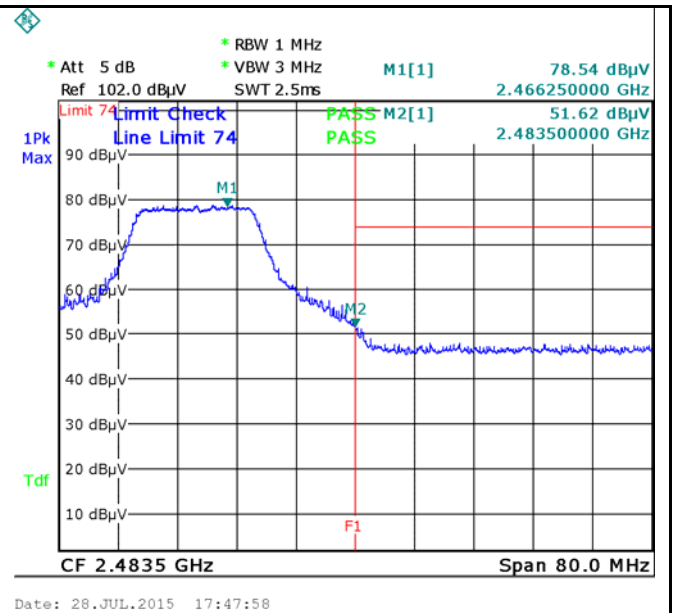
Band Edge, Right Side (Average) - 802.11b

Note: F1 is frequency 2483.5MHz



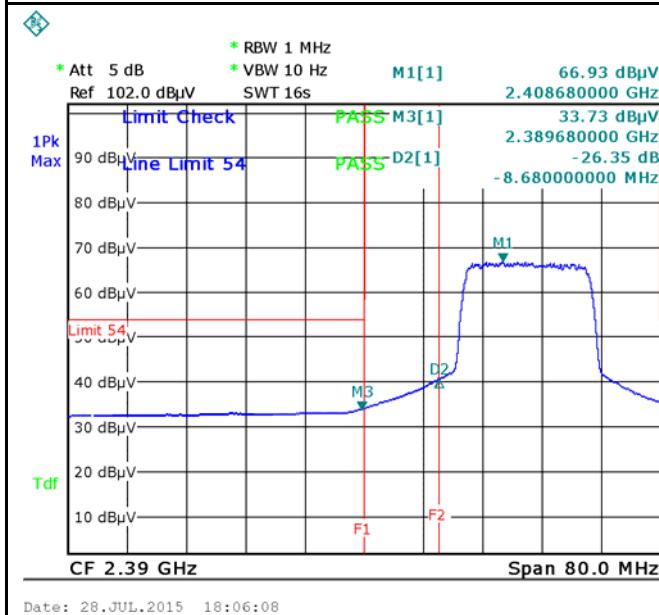
Band Edge, Left Side (Peak) - 802.11g

Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



Band Edge, Right Side (Peak) - 802.11g

Note: F1 is frequency 2483.5MHz

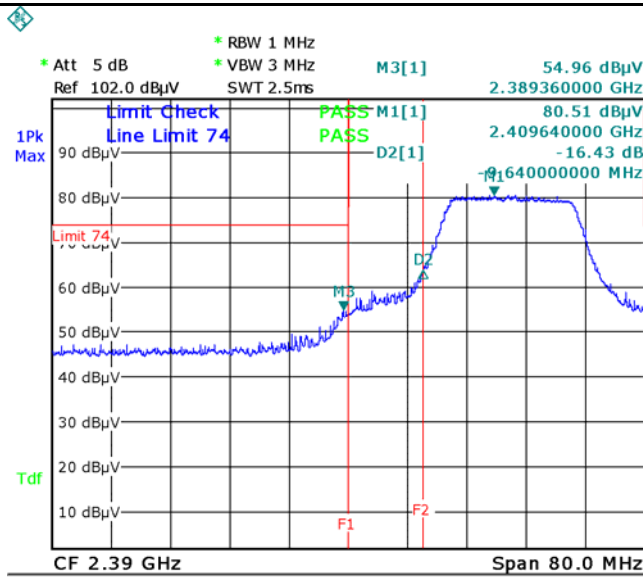


Band Edge, Left Side (Average) - 802.11g

Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz

Note: (no need if PK value less than the AV limit)

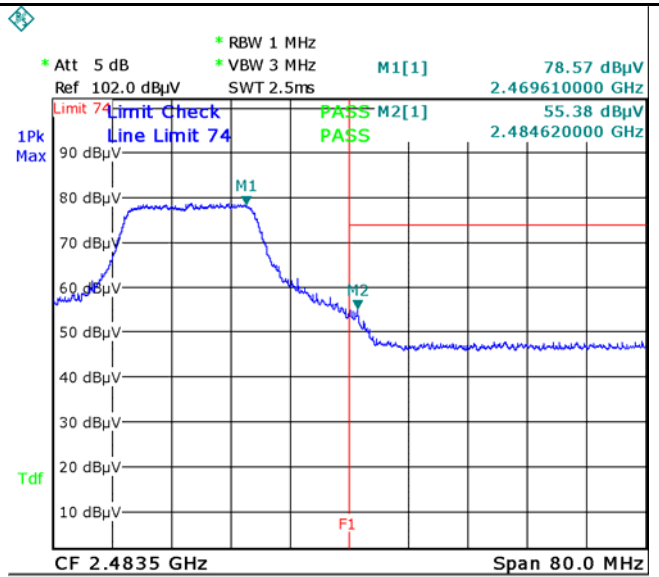
Band Edge, Right Side (Average) - 802.11g



Date: 28.JUL.2015 18:08:28

Band Edge, Left Side (Peak) - 802.11n20

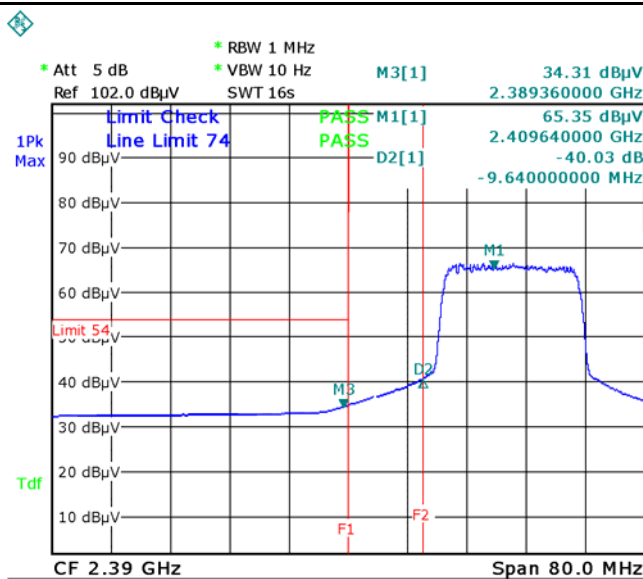
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



Date: 28.JUL.2015 17:44:32

Band Edge, Right Side (Peak) - 802.11n20

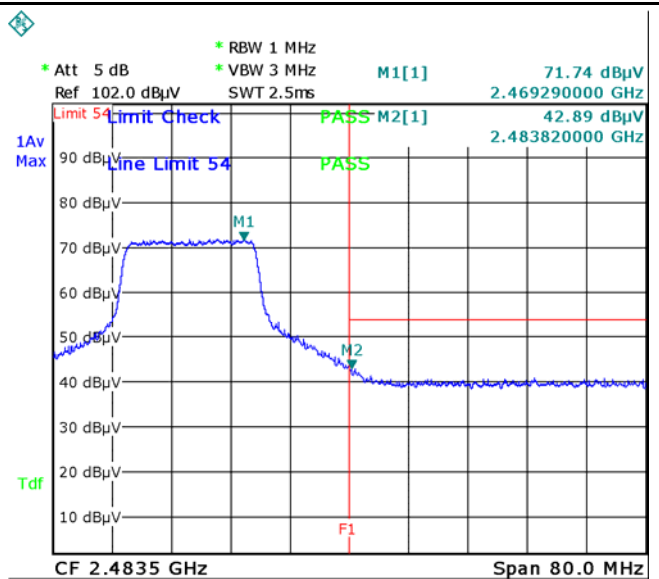
Note: F1 is frequency 2483.5MHz



Date: 28.JUL.2015 18:09:15

Band Edge, Left Side (Average) - 802.11n20

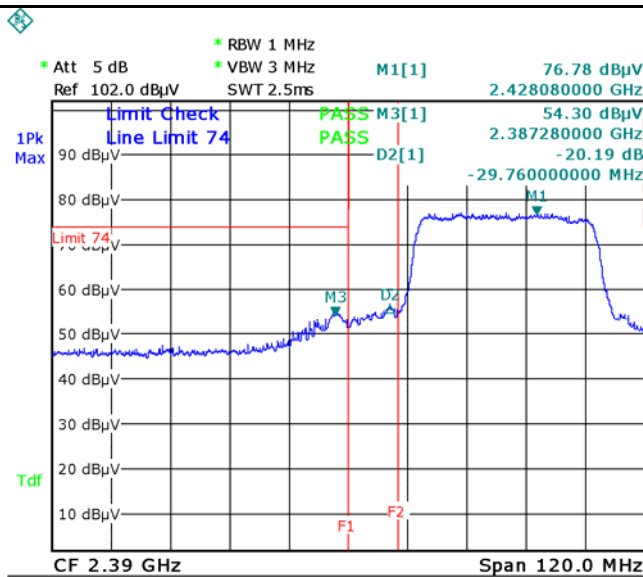
Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



Date: 28.JUL.2015 17:41:26

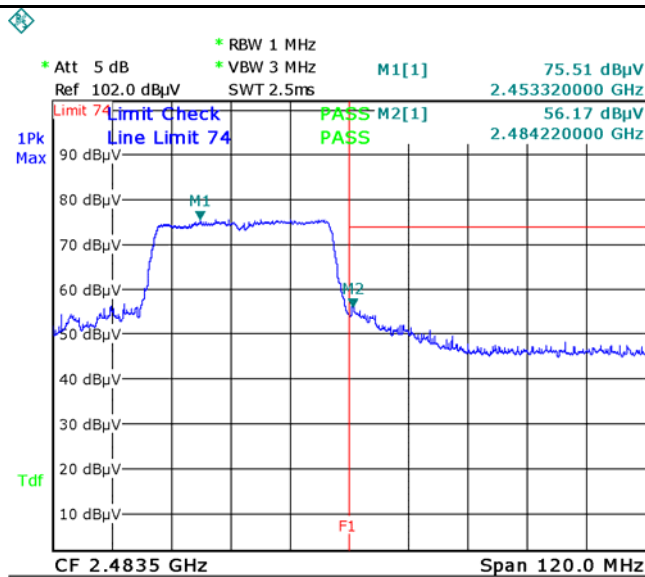
Band Edge, Right Side (Average) - 802.11n20

Note: F1 is frequency 2483.5MHz



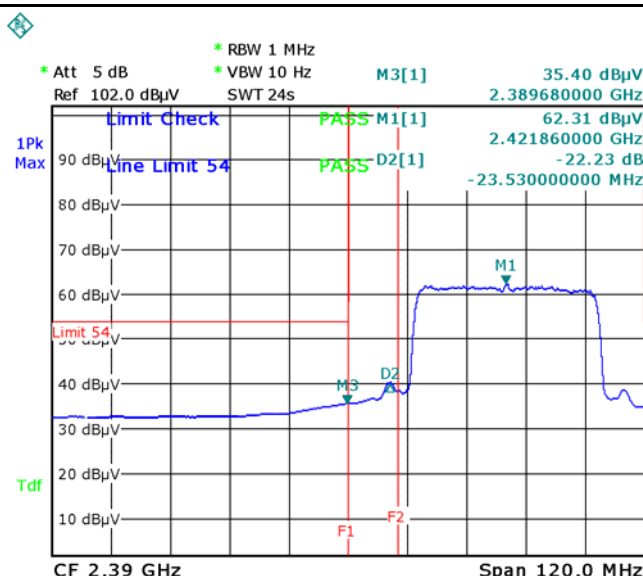
Band Edge, Left Side (Peak) - 802.11n40

Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



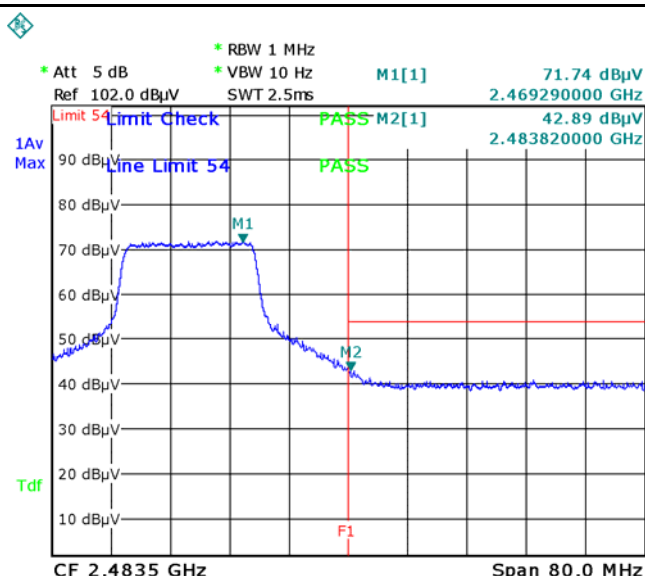
Band Edge, Right Side (Peak) - 802.11n40

Note: F1 is frequency 2483.5MHz



Band Edge, Left Side (Average) - 802.11n40

Note: F1 is frequency 2390MHz; F2 is frequency 2400MHz



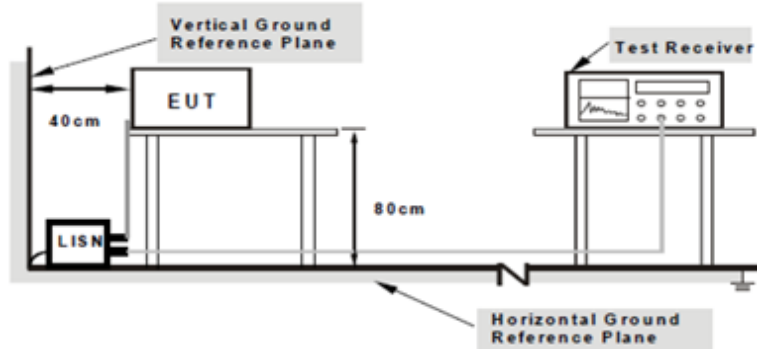
Band Edge, Right Side (Average) - 802.11n40

Note: F1 is frequency 2483.5MHz

6.6 AC Power Line Conducted Emissions

Temperature	23°C
Relative Humidity	55%
Atmospheric Pressure	1022mbar
Test date :	July 22, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable														
47CFR§15.207,	a)	For Low-power radio-frequency devices 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 or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 [mu] H/50 ohms line impedance stabilization network (LISN). The lower limit applies at the boundary between the frequencies ranges.	☒														
		<table><tr><th rowspan="2">Frequency ranges (MHz)</th><th colspan="2">Limit (dBµV)</th></tr><tr><th>QP</th><th>Average</th></tr><tr><td>0.15 ~ 0.5</td><td>66 – 56</td><td>56 – 46</td></tr><tr><td>0.5 ~ 5</td><td>56</td><td>46</td></tr><tr><td>5 ~ 30</td><td>60</td><td>50</td></tr></table>		Frequency ranges (MHz)	Limit (dBµV)		QP	Average	0.15 ~ 0.5	66 – 56	56 – 46	0.5 ~ 5	56	46	5 ~ 30	60	50
		Frequency ranges (MHz)			Limit (dBµV)												
				QP	Average												
		0.15 ~ 0.5		66 – 56	56 – 46												
0.5 ~ 5	56	46															
5 ~ 30	60	50															
Test Setup																	
Procedure		1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table.															
		2. The power supply for the EUT was fed through a 50W/50mH EUT LISN, connected to filtered mains.															
		3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss															

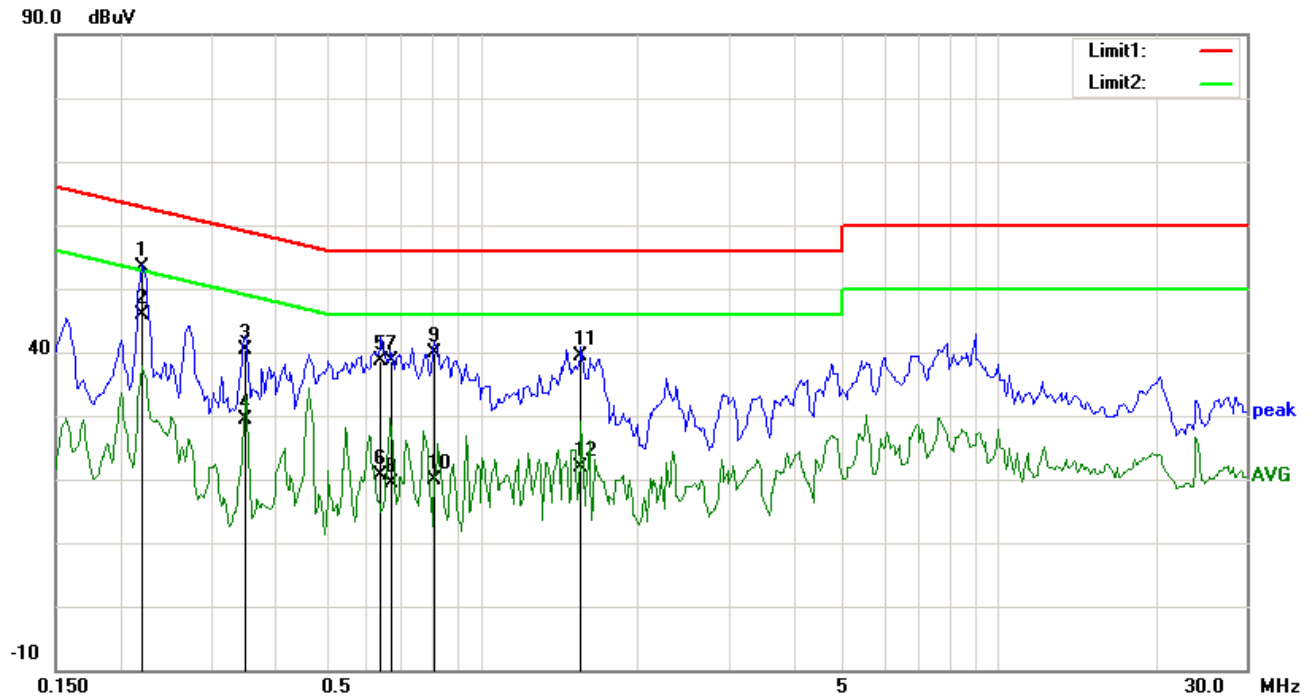
Test Report No.	15070360-FCC-R
Page	31 of 58

	coaxial cable. 4. All other supporting equipment were powered separately from another main supply. 5. The EUT was switched on and allowed to warm up to its normal operating condition. 6. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver. 7. High peaks, relative to the limit line, The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10 kHz. 8. Step 7 was then repeated for the LIVE line (for AC mains) or DC line (for DC power).
Remark	
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test Mode 1 : WIFI Mode (Adaptor 1 : TEKA006-0501000UKU)

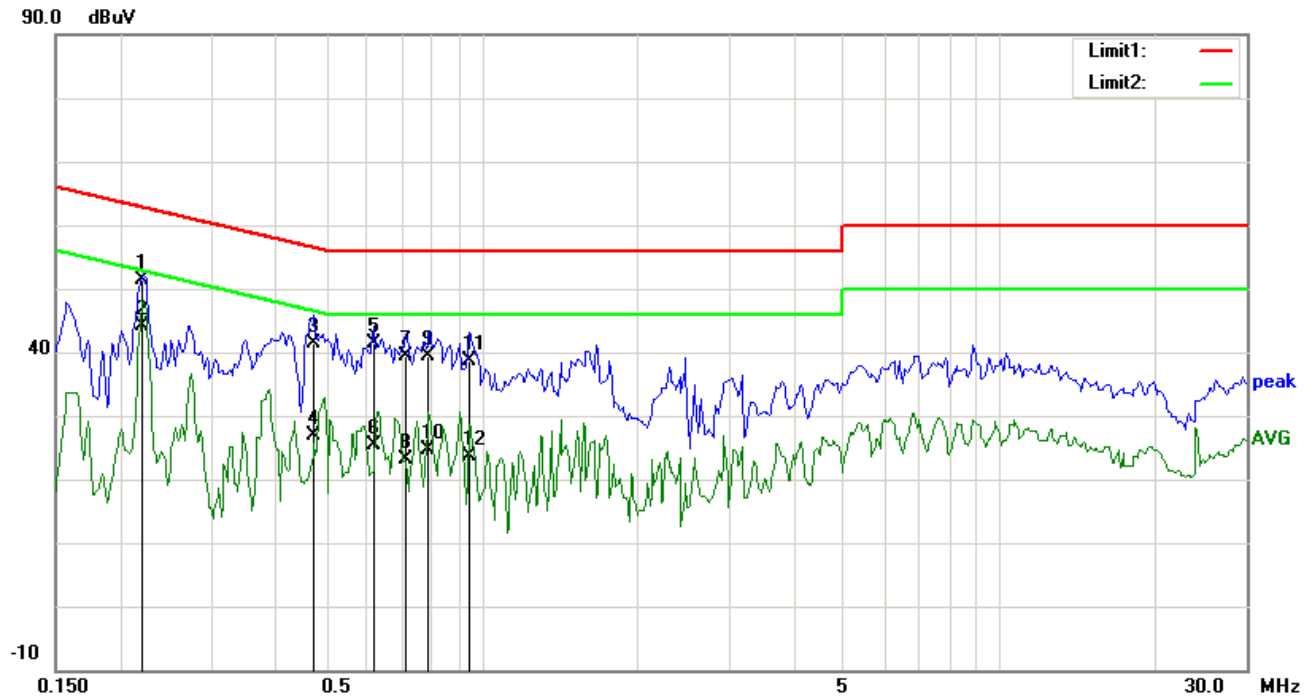


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Comment)
1	L1	0.2203	40.56	QP	12.94	53.50	62.81	-9.31	
2	L1	0.2203	32.84	AVG	12.94	45.78	52.81	-7.03	
3	L1	0.3492	27.89	QP	12.46	40.35	58.98	-18.63	
4	L1	0.3492	16.94	AVG	12.46	29.40	48.98	-19.58	
5	L1	0.6383	26.81	QP	11.76	38.57	56.00	-17.43	
6	L1	0.6383	8.96	AVG	11.76	20.72	46.00	-25.28	
7	L1	0.6683	26.81	QP	11.73	38.54	56.00	-17.46	
8	L1	0.6683	7.58	AVG	11.73	19.31	46.00	-26.69	
9	L1	0.8102	28.20	QP	11.59	39.79	56.00	-16.21	
10	L1	0.8102	8.34	AVG	11.59	19.93	46.00	-26.07	
11	L1	1.5523	28.09	QP	11.40	39.49	56.00	-16.51	
12	L1	1.5523	10.45	AVG	11.40	21.85	46.00	-24.15	

Test Mode 1: WIFI Mode(Adaptor 1 : TEKA006-0501000UKU)

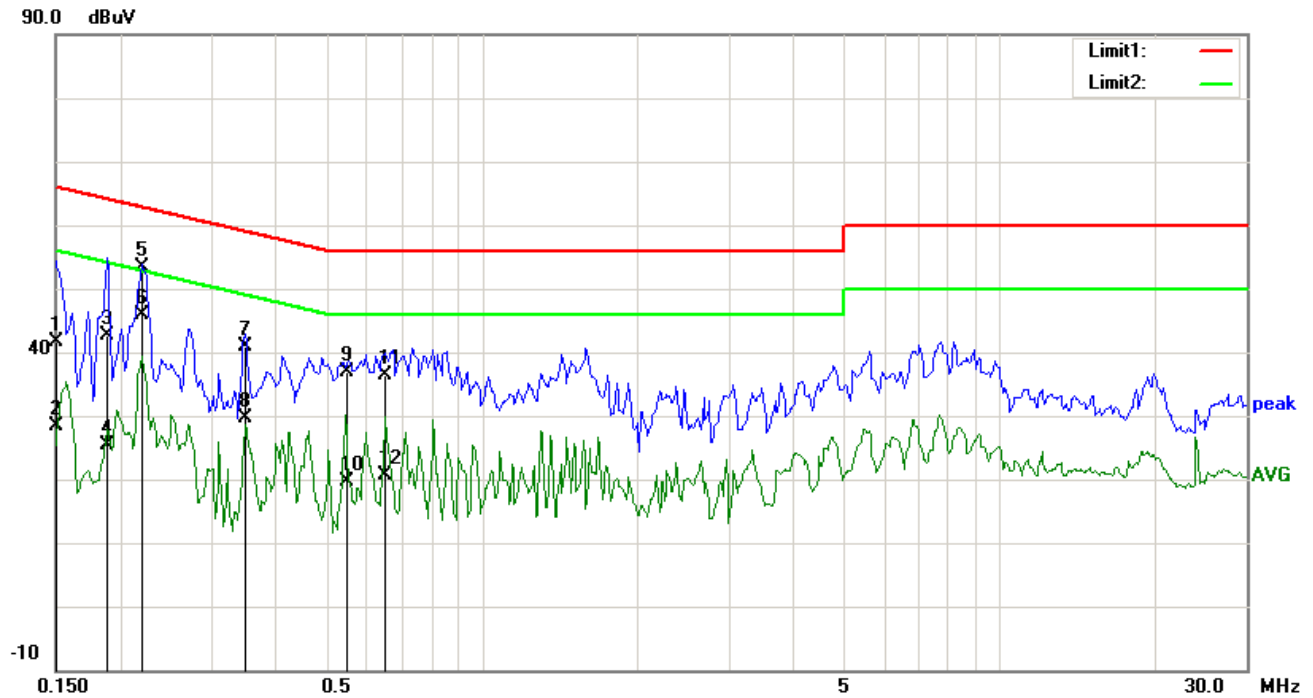


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Comment
1	N	0.2203	38.52	QP	12.94	51.46	62.81	-11.35	
2	N	0.2203	31.16	AVG	12.94	44.10	52.81	-8.71	
3	N	0.4742	29.44	QP	12.00	41.44	56.44	-15.00	
4	N	0.4742	14.95	AVG	12.00	26.95	46.44	-19.49	
5	N	0.6188	29.48	QP	11.78	41.26	56.00	-14.74	
6	N	0.6188	13.52	AVG	11.78	25.30	46.00	-20.70	
7	N	0.7125	27.81	QP	11.69	39.50	56.00	-16.50	
8	N	0.7125	11.54	AVG	11.69	23.23	46.00	-22.77	
9	N	0.7906	27.77	QP	11.61	39.38	56.00	-16.62	
10	N	0.7906	13.05	AVG	11.61	24.66	46.00	-21.34	
11	N	0.9469	27.23	QP	11.45	38.68	56.00	-17.32	
12	N	0.9469	12.07	AVG	11.45	23.52	46.00	-22.48	

Test Mode1 : WIFI Mode (Adaptor 1 : TEKA006-0501000UKU)

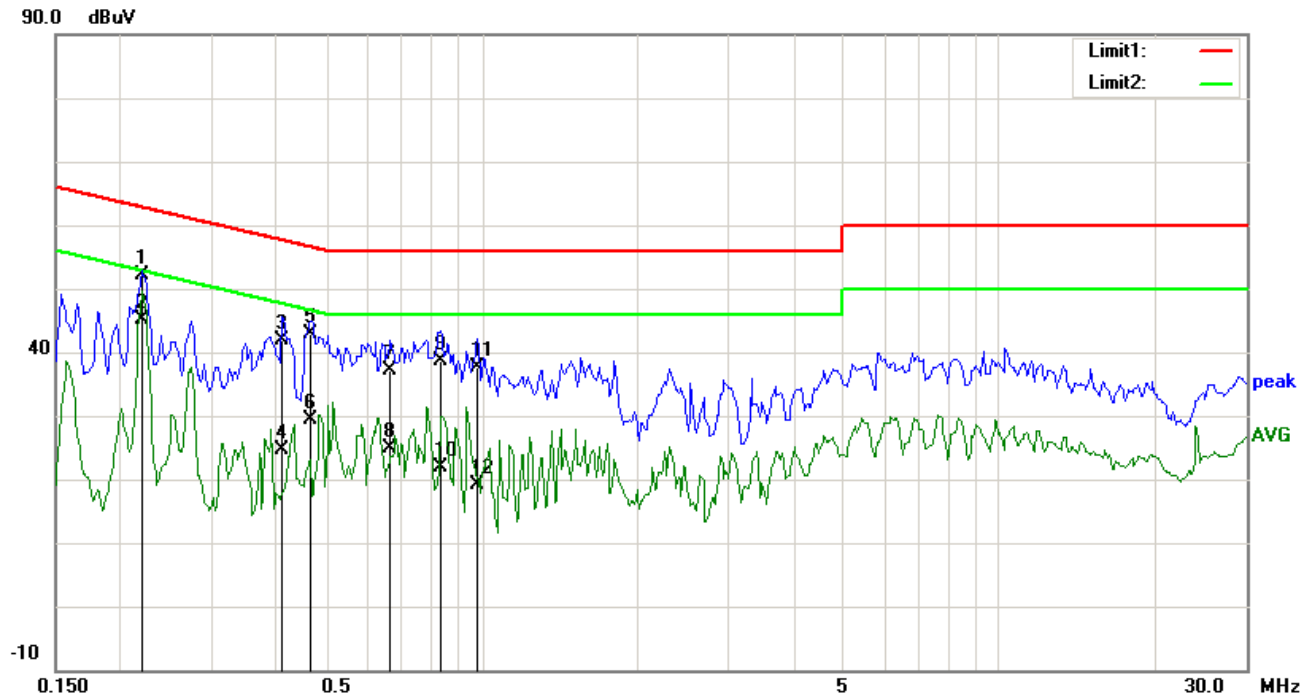


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Comment)
1	L1	0.1500	28.43	QP	13.20	41.63	66.00	-24.37	
2	L1	0.1500	15.08	AVG	13.20	28.28	56.00	-27.72	
3	L1	0.1891	29.66	QP	13.05	42.71	64.08	-21.37	
4	L1	0.1891	12.24	AVG	13.05	25.29	54.08	-28.79	
5	L1	0.2203	40.38	QP	12.94	53.32	62.81	-9.49	
6	L1	0.2203	33.05	AVG	12.94	45.99	52.81	-6.82	
7	L1	0.3492	28.31	QP	12.46	40.77	58.98	-18.21	
8	L1	0.3492	17.25	AVG	12.46	29.71	48.98	-19.27	
9	L1	0.5493	25.06	QP	11.85	36.91	56.00	-19.09	
10	L1	0.5493	7.70	AVG	11.85	19.55	46.00	-26.45	
11	L1	0.6508	24.55	QP	11.75	36.30	56.00	-19.70	
12	L1	0.6508	9.00	AVG	11.75	20.75	46.00	-25.25	

Test Mode 1 : WIFI Mode(Adaptor 1 : TEKA006-0501000UKU)

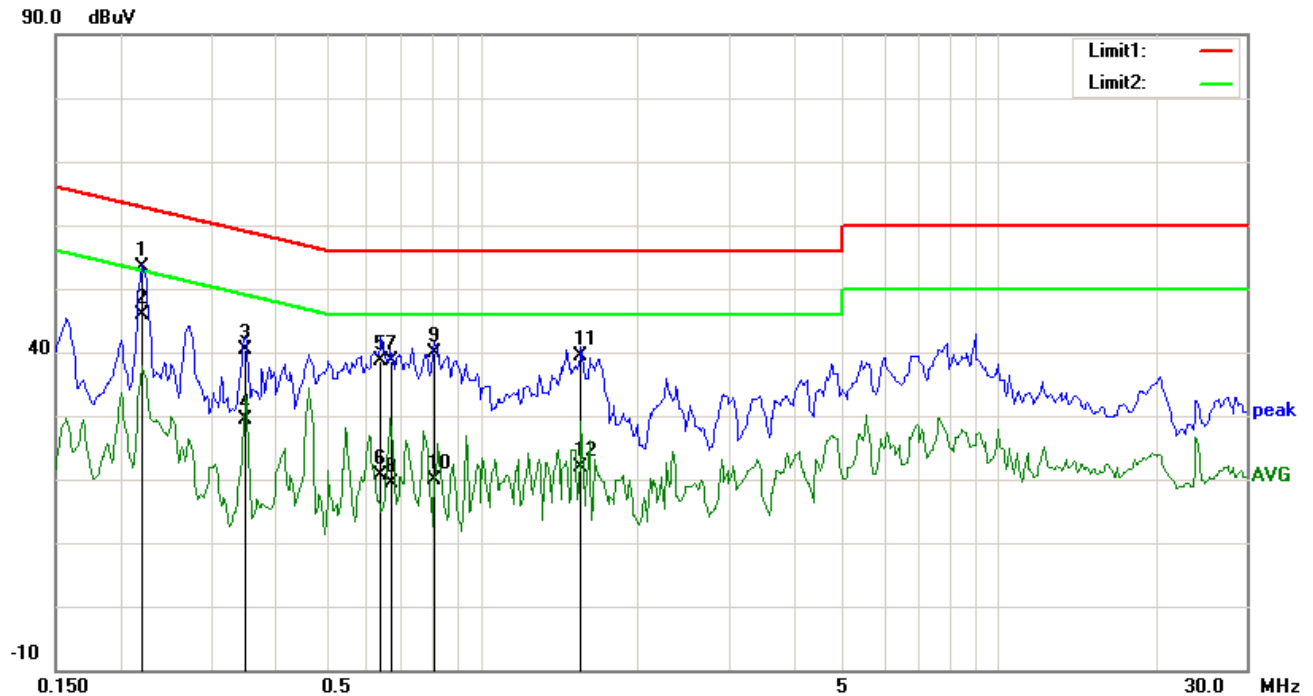


Test Data

Phase Neutral Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Comment
1	N	0.2203	39.18	QP	12.94	52.12	62.81	-10.69	
2	N	0.2203	32.27	AVG	12.94	45.21	52.81	-7.60	
3	N	0.4117	29.64	QP	12.23	41.87	57.61	-15.74	
4	N	0.4117	12.34	AVG	12.23	24.57	47.61	-23.04	
5	N	0.4664	30.83	QP	12.02	42.85	56.58	-13.73	
6	N	0.4664	17.39	AVG	12.02	29.41	46.58	-17.17	
7	N	0.6656	25.28	QP	11.73	37.01	56.00	-18.99	
8	N	0.6656	13.11	AVG	11.73	24.84	46.00	-21.16	
9	N	0.8336	27.12	QP	11.57	38.69	56.00	-17.31	
10	N	0.8336	10.41	AVG	11.57	21.98	46.00	-24.02	
11	N	0.9820	26.23	QP	11.42	37.65	56.00	-18.35	
12	N	0.9820	7.74	AVG	11.42	19.16	46.00	-26.84	

Test Mode 2 : WIFI Mode (Adaptor 2 : A31-3762-501000)

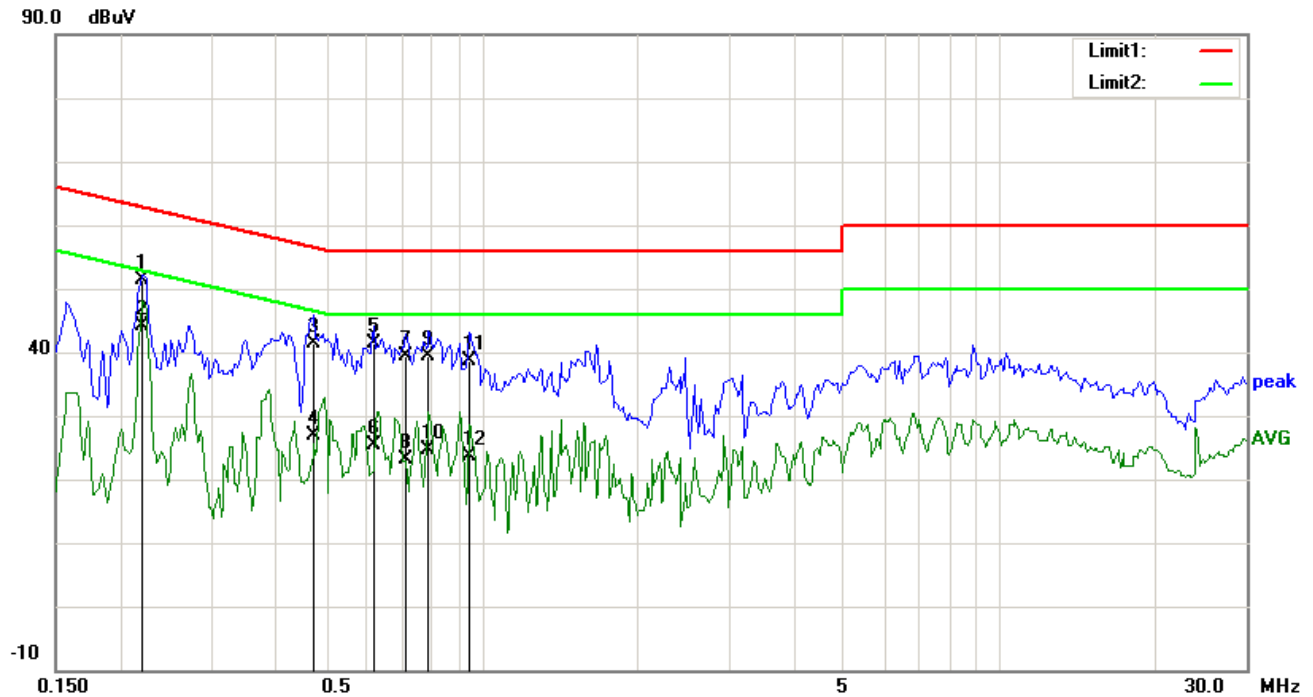


Test Data

Phase Line Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Comment)
1	L1	0.2203	40.56	QP	12.94	53.50	62.81	-9.31	
2	L1	0.2203	32.84	AVG	12.94	45.78	52.81	-7.03	
3	L1	0.3492	27.89	QP	12.46	40.35	58.98	-18.63	
4	L1	0.3492	16.94	AVG	12.46	29.40	48.98	-19.58	
5	L1	0.6383	26.81	QP	11.76	38.57	56.00	-17.43	
6	L1	0.6383	8.96	AVG	11.76	20.72	46.00	-25.28	
7	L1	0.6683	26.81	QP	11.73	38.54	56.00	-17.46	
8	L1	0.6683	7.58	AVG	11.73	19.31	46.00	-26.69	
9	L1	0.8102	28.20	QP	11.59	39.79	56.00	-16.21	
10	L1	0.8102	8.34	AVG	11.59	19.93	46.00	-26.07	
11	L1	1.5523	28.09	QP	11.40	39.49	56.00	-16.51	
12	L1	1.5523	10.45	AVG	11.40	21.85	46.00	-24.15	

Test Mode2 : WIFI Mode(Adaptor 2 : A31-3762-501000)

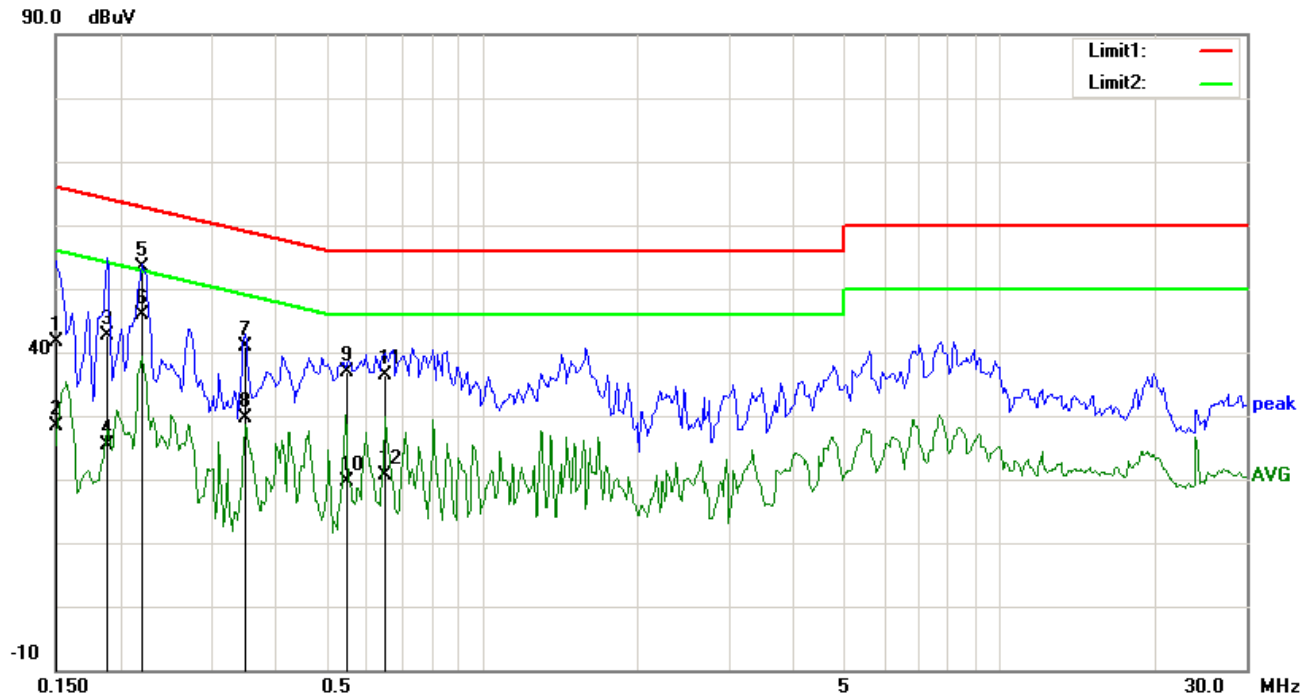


Test Data

Phase Neutral Plot at 120Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Comment
1	N	0.2203	38.52	QP	12.94	51.46	62.81	-11.35	
2	N	0.2203	31.16	AVG	12.94	44.10	52.81	-8.71	
3	N	0.4742	29.44	QP	12.00	41.44	56.44	-15.00	
4	N	0.4742	14.95	AVG	12.00	26.95	46.44	-19.49	
5	N	0.6188	29.48	QP	11.78	41.26	56.00	-14.74	
6	N	0.6188	13.52	AVG	11.78	25.30	46.00	-20.70	
7	N	0.7125	27.81	QP	11.69	39.50	56.00	-16.50	
8	N	0.7125	11.54	AVG	11.69	23.23	46.00	-22.77	
9	N	0.7906	27.77	QP	11.61	39.38	56.00	-16.62	
10	N	0.7906	13.05	AVG	11.61	24.66	46.00	-21.34	
11	N	0.9469	27.23	QP	11.45	38.68	56.00	-17.32	
12	N	0.9469	12.07	AVG	11.45	23.52	46.00	-22.48	

Test Mode 2: WIFI Mode (Adaptor 2 : A31-3762-501000)

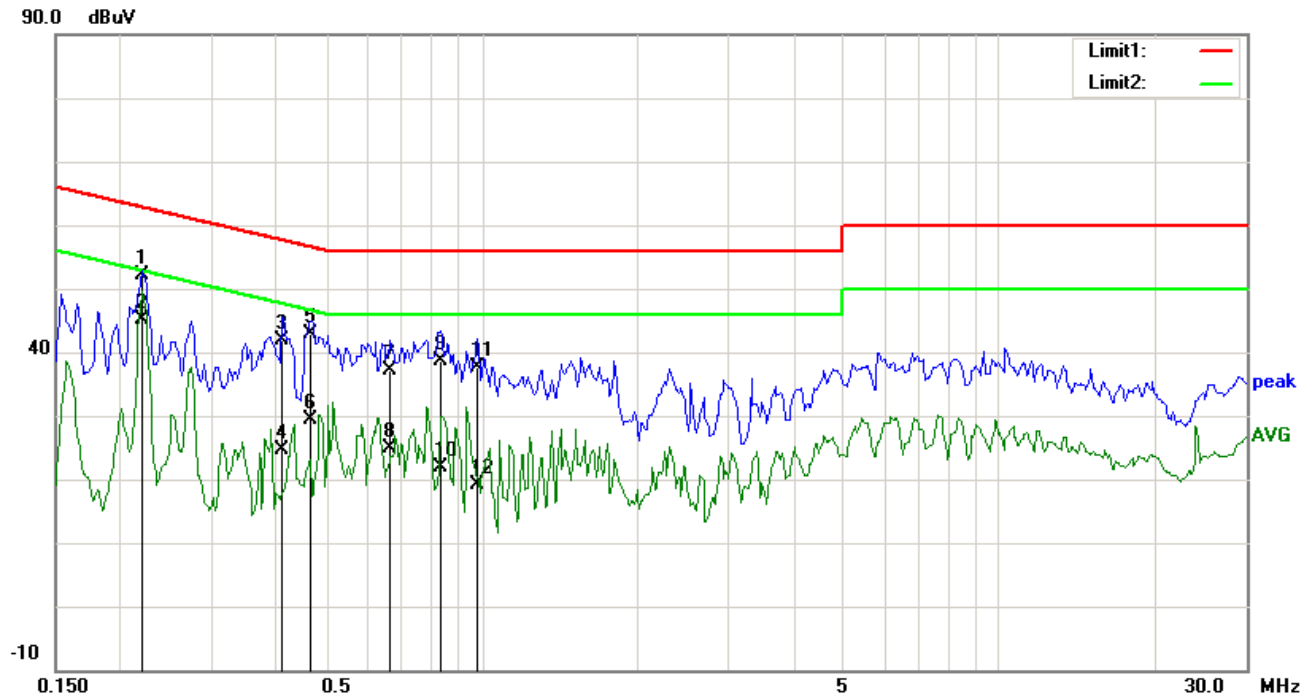


Test Data

Phase Line Plot at 240Vac, 60Hz

No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Comment)
1	L1	0.1500	28.43	QP	13.20	41.63	66.00	-24.37	
2	L1	0.1500	15.08	AVG	13.20	28.28	56.00	-27.72	
3	L1	0.1891	29.66	QP	13.05	42.71	64.08	-21.37	
4	L1	0.1891	12.24	AVG	13.05	25.29	54.08	-28.79	
5	L1	0.2203	40.38	QP	12.94	53.32	62.81	-9.49	
6	L1	0.2203	33.05	AVG	12.94	45.99	52.81	-6.82	
7	L1	0.3492	28.31	QP	12.46	40.77	58.98	-18.21	
8	L1	0.3492	17.25	AVG	12.46	29.71	48.98	-19.27	
9	L1	0.5493	25.06	QP	11.85	36.91	56.00	-19.09	
10	L1	0.5493	7.70	AVG	11.85	19.55	46.00	-26.45	
11	L1	0.6508	24.55	QP	11.75	36.30	56.00	-19.70	
12	L1	0.6508	9.00	AVG	11.75	20.75	46.00	-25.25	

Test Mode 2 : WIFI Mode(Adaptor 2: A31-3762-501000)



Test Data

Phase Neutral Plot at 240Vac, 60Hz

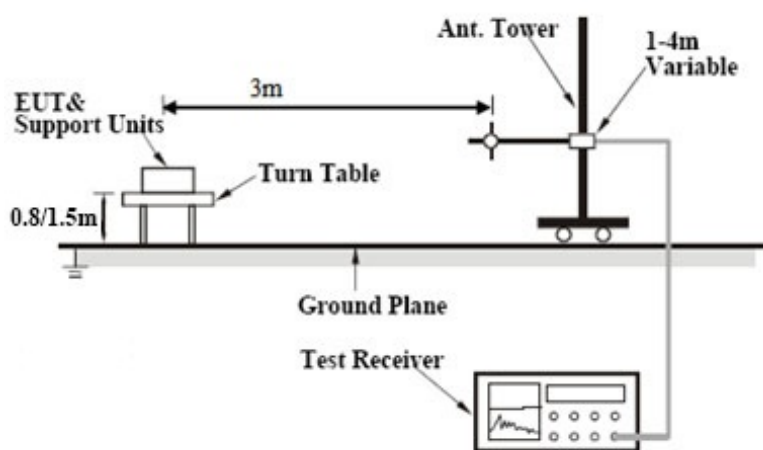
No.	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Comment
1	N	0.2203	39.18	QP	12.94	52.12	62.81	-10.69	
2	N	0.2203	32.27	AVG	12.94	45.21	52.81	-7.60	
3	N	0.4117	29.64	QP	12.23	41.87	57.61	-15.74	
4	N	0.4117	12.34	AVG	12.23	24.57	47.61	-23.04	
5	N	0.4664	30.83	QP	12.02	42.85	56.58	-13.73	
6	N	0.4664	17.39	AVG	12.02	29.41	46.58	-17.17	
7	N	0.6656	25.28	QP	11.73	37.01	56.00	-18.99	
8	N	0.6656	13.11	AVG	11.73	24.84	46.00	-21.16	
9	N	0.8336	27.12	QP	11.57	38.69	56.00	-17.31	
10	N	0.8336	10.41	AVG	11.57	21.98	46.00	-24.02	
11	N	0.9820	26.23	QP	11.42	37.65	56.00	-18.35	
12	N	0.9820	7.74	AVG	11.42	19.16	46.00	-26.84	

6.7 Radiated Spurious Emissions

Temperature	23°C
Relative Humidity	55%
Atmospheric Pressure	1003mbar
Test date :	August 03, 2015
Tested By :	Winnie Zhang

Requirement(s):

Spec	Item	Requirement	Applicable										
47CFR§15.247(d),	a)	Except higher limit as specified elsewhere in other section, the emissions from the low-power radio-frequency devices shall not exceed the field strength levels specified in the following table and the level of any unwanted emissions shall not exceed the level of the fundamental emission. The tighter limit applies at the band edges <table><tr><th>Frequency range (MHz)</th><th>Field Strength (µV/m)</th></tr><tr><td>30 – 88</td><td>100</td></tr><tr><td>88 – 216</td><td>150</td></tr><tr><td>216 960</td><td>200</td></tr><tr><td>Above 960</td><td>500</td></tr></table>	Frequency range (MHz)	Field Strength (µV/m)	30 – 88	100	88 – 216	150	216 960	200	Above 960	500	☒
	Frequency range (MHz)	Field Strength (µV/m)											
	30 – 88	100											
88 – 216	150												
216 960	200												
Above 960	500												
b)	For non-restricted band, In any 100 kHz 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 20 dB or 30dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, determined by the measurement method on output power to be used. Attenuation below the general limits specified in § 15.209(a) is not required ☒ 20 dB down ☐ 30 dB down	☒											
c)	or restricted band, emission must also comply with the radiated emission limits specified in 15.209	☒											

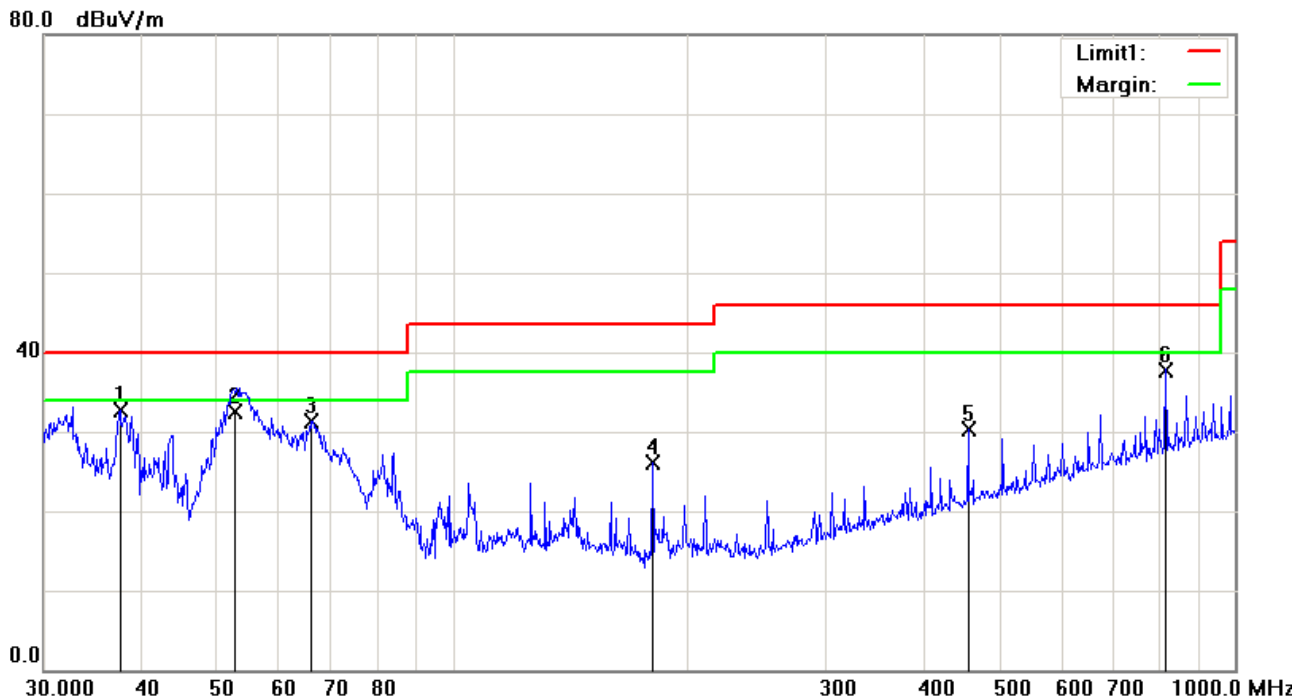
Test Setup	
Procedure	- The EUT was switched on and allowed to warm up to its normal operating condition. - The test was carried out at the selected frequency points obtained from the EUT characterization. Maximization of the emissions, was carried out by rotating the EUT, changing the antenna polarization, and adjusting the antenna height in the following manner: - Vertical or horizontal polarization (whichever gave the higher emission level over a full rotation of the EUT) was chosen. - The EUT was then rotated to the direction that gave the maximum emission. - Finally, the antenna height was adjusted to the height that gave the maximum emission. - The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasi Peak detection at frequency below 1GHz. - The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz with Peak detection for Peak measurement at frequency above 1GHz. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz with Peak detection for Average Measurement as below at frequency above 1GHz. - Steps 2 and 3 were repeated for the next frequency point, until all selected frequency points were measured.
Remark	Different RF configuration has been evaluated but not much difference was found. The data presented here is the worst case data with EUT under 802.11n – HT20-2437MHz mode.
Result	☒ Pass ☐ Fail

Test Data ☒ Yes ☐ N/A

Test Plot ☒ Yes (See below) ☐ N/A

Test Mode 1: WIFI Mode (Adaptor 1 : TEKA006-0501000UKU)

(Below 1GHz)



Test Data

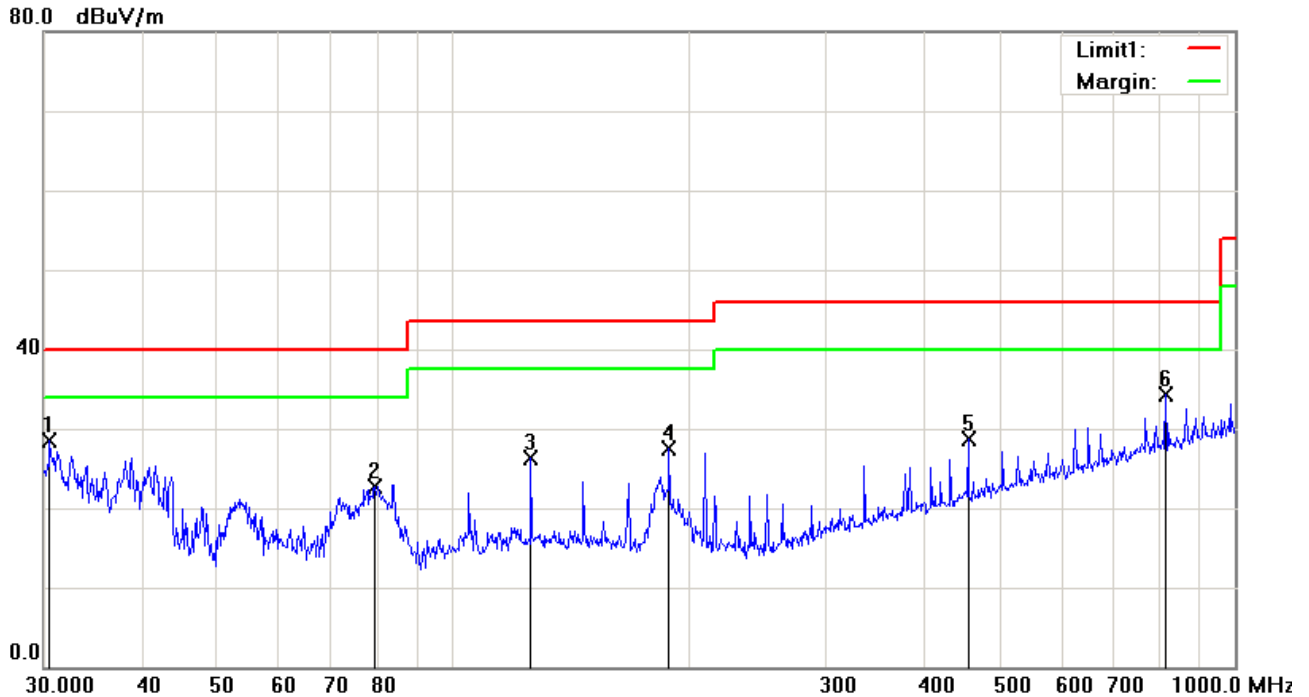
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Height	Degree	Comment
1	V	37.5479	38.44	peak	-5.80	32.64	40.00	-7.36	200	169	
2	V	52.6550	46.04	QP	-13.49	32.55	40.00	-7.45	100	325	
3	V	65.8031	45.26	peak	-13.90	31.36	40.00	-8.64	100	74	
4	V	180.0165	36.02	peak	-9.89	26.13	43.50	-17.37	200	225	
5	V	455.9058	33.24	peak	-2.92	30.32	46.00	-15.68	100	250	
6	V	815.9678	34.40	peak	3.40	37.80	46.00	-8.20	163	0	

Above 1GHz

Note: The frequency that above 1GHz is mainly from the environment noise.

(Below 1GHz)



Test Data

Vertical Polarity Plot @3m

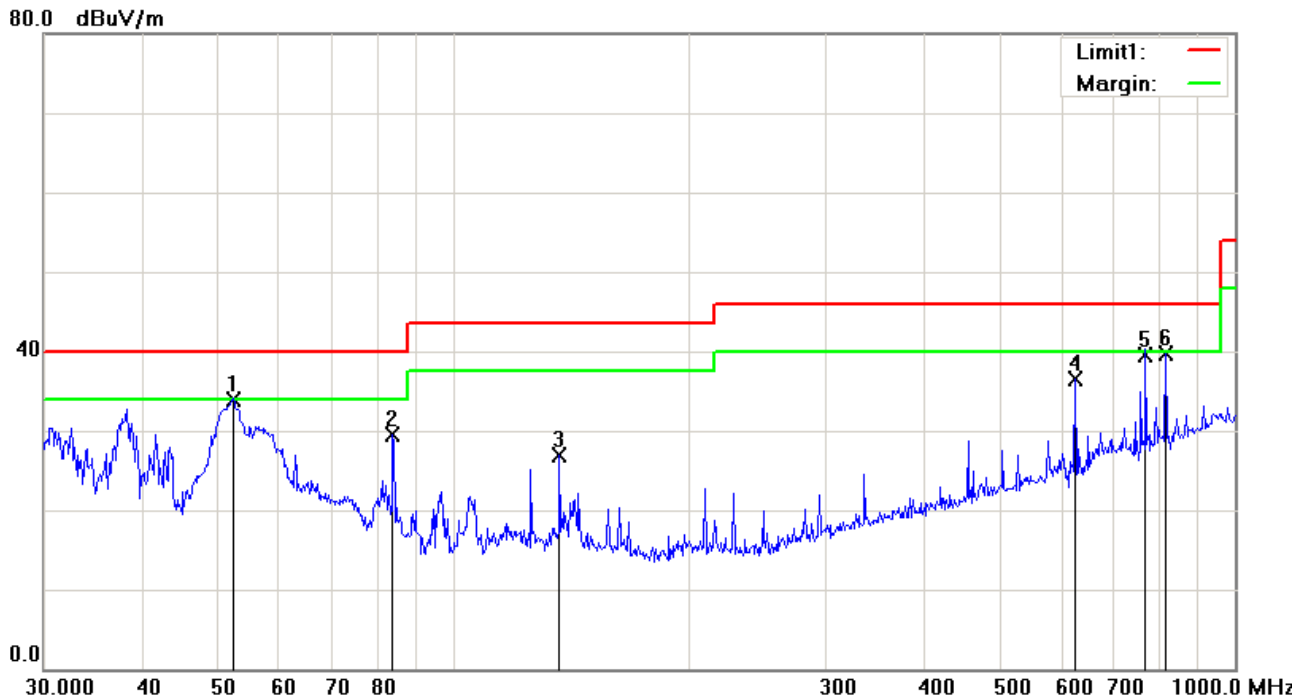
No	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Height	Degree	Comment
1	H	30.5306	29.11	peak	-0.66	28.45	40.00	-11.55	168	0	
2	H	79.5209	36.46	peak	-13.77	22.69	40.00	-17.31	200	212	
3	H	125.8864	34.03	peak	-7.67	26.36	43.50	-17.14	200	186	
4	H	189.0743	36.79	peak	-9.29	27.50	43.50	-16.00	200	246	
5	H	455.9058	31.70	peak	-2.92	28.78	46.00	-17.22	100	121	
6	H	815.9678	30.81	peak	3.40	34.21	46.00	-11.79	200	179	

Above 1GHz

Note: The frequency that above 1GHz is mainly from the environment noise.

Test Mode 2: WIFI Mode (Adaptor 2 : A31-3762-501000)

(Below 1GHz)



Test Data

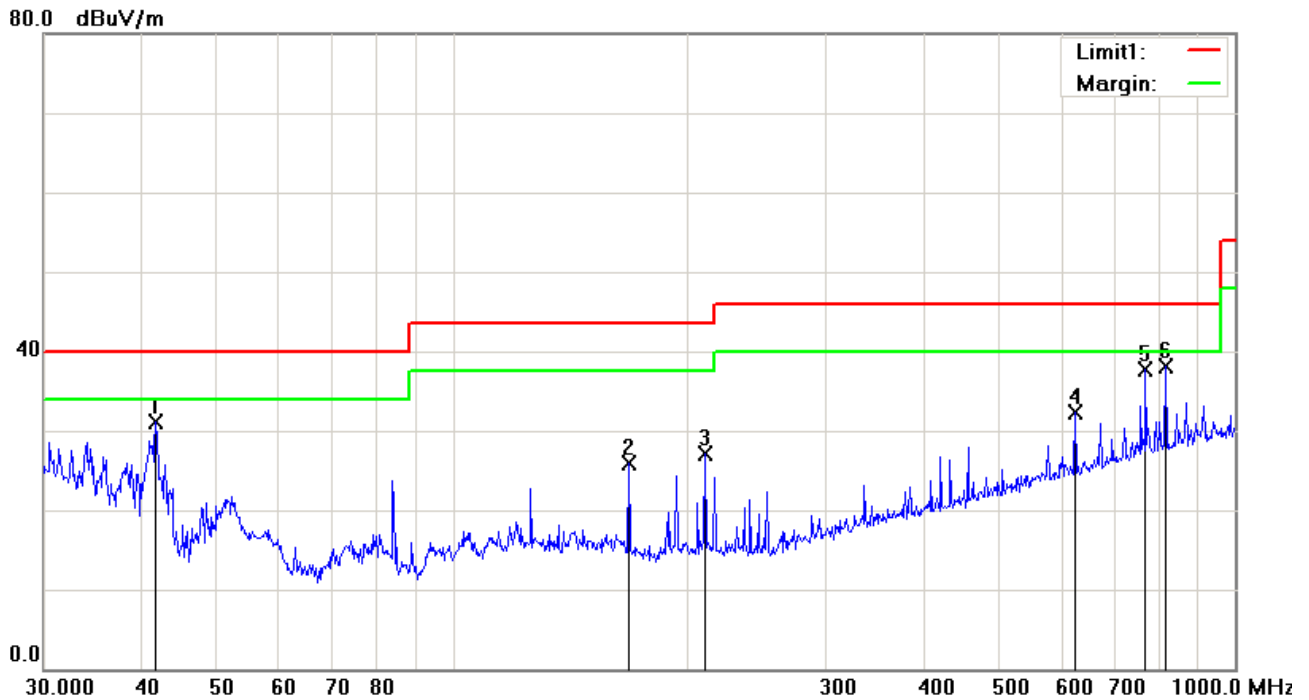
Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Height	Degree	Comment
1	V	52.3913	47.35	QP	-13.46	33.89	40.00	-6.11	100	359	
2	V	83.8156	43.10	peak	-13.56	29.54	40.00	-10.46	100	225	
3	V	136.9392	35.30	peak	-8.35	26.95	43.50	-16.55	100	282	
4	V	625.0780	36.17	peak	0.42	36.59	46.00	-9.41	100	0	
5	V	768.7482	36.86	QP	2.70	39.56	46.00	-6.44	100	27	
6	V	815.9678	36.33	peak	3.40	39.73	46.00	-6.27	100	49	

Above 1GHz

Note: The frequency that above 1GHz is mainly from the environment noise.

(Below 1GHz)



Test Data

Vertical Polarity Plot @3m

No	P/L	Frequency (MHz)	Reading (dBμV)	Detector	Corrected (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Height	Degree	Comment
1	H	41.7130	39.79	peak	-8.73	31.06	40.00	-8.94	100	265	
2	H	167.8243	34.87	peak	-8.92	25.95	43.50	-17.55	200	38	
3	H	210.0482	36.01	peak	-8.83	27.18	43.50	-16.32	100	55	
4	H	625.0780	31.82	peak	0.42	32.24	46.00	-13.76	100	216	
5	H	768.7482	35.10	peak	2.70	37.80	46.00	-8.20	100	261	
6	H	815.9678	34.62	peak	3.40	38.02	46.00	-7.98	200	251	

Above 1GHz

Note: The frequency that above 1GHz is mainly from the environment noise.

Test Mode:	WIFI Mode
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Low Channel (2412 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4824	37.29	AV	V	34	6.86	31.72	46.43	54	-7.57
4824	36.15	AV	H	33.8	6.86	31.72	45.09	54	-8.91
4824	46.53	PK	V	34	6.86	31.72	55.67	74	-18.33
4824	45.66	PK	H	33.8	6.86	31.72	54.6	74	-19.4

Middle Channel (2437 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4874	37.09	AV	V	33.6	6.82	31.82	45.69	54	-8.31
4874	35.92	AV	H	33.8	6.82	31.82	44.72	54	-9.28
4874	46.33	PK	V	33.6	6.82	31.82	54.93	74	-19.07
4874	45.28	PK	H	33.8	6.82	31.82	54.08	74	-19.92

High Channel (2462 MHz)

Frequency (MHz)	S.A. Reading (dBμV)	Detector (PK/AV)	Polarity (H/V)	Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
4924	36.71	AV	V	34.6	6.76	31.92	46.15	54	-7.85
4924	35.85	AV	H	34.7	6.76	31.92	45.39	54	-8.61
4924	45.62	PK	V	34.6	6.76	31.92	55.06	74	-18.94
4924	44.37	PK	H	34.7	6.76	31.92	53.91	74	-20.09

Annex A. TEST INSTRUMENT

Instrument	Model	Serial #	Cal Date	Cal Due	In use
AC Line Conducted					
EMI test receiver	ESCS30	8471241027	09/18/2014	09/17/2015	☒
Line Impedance	LI-125A	191106	09/26/2014	09/25/2015	☒
Line Impedance	LI-125A	191107	09/26/2014	09/25/2015	☒
LISN	ISN T800	34373	09/26/2014	09/25/2015	☒
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	☒
Transient Limiter	LIT-153	531118	09/02/2014	09/01/2015	☒
RF conducted test					
Agilent ESA-E SERIES	E4407B	MY45108319	09/18/2014	09/17/2015	☒
Power Splitter	1#	1#	09/02/2014	09/01/2015	☒
DC Power Supply	E3640A	MY40004013	09/18/2014	09/17/2015	☒
Radiated Emissions					
EMI test receiver	ESL6	100262	09/18/2014	09/17/2015	☒
Positioning Controller	UC3000	MF780208282	11/20/2014	11/19/2015	☒
OPT 010 AMPLIFIER (0.1-1300MHz)	8447E	2727A02430	09/02/2014	09/01/2015	☒
Microwave Preamplifier (1 ~ 26.5GHz)	8449B	3008A02402	03/25/2015	03/24/2016	☒
Bilog Antenna (30MHz~6GHz)	JB6	A110712	09/22/2014	09/21/2015	☒
Double Ridge Horn Antenna (1 ~18GHz)	AH-118	71283	09/25/2014	09/24/2015	☒
Universal Radio Communication Tester	CMU200	121393	09/26/2014	09/25/2015	☒

Annex B. EUT and Test Setup Photographs

Annex B.i. Photograph: EUT External Photo



Whole package - Front View



Adapter 1 - Front View



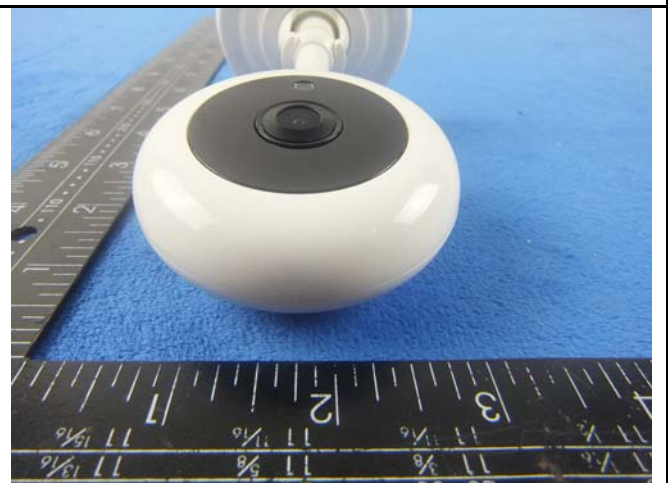
Adapter 2 - Front View



EUT - Front View



EUT - Rear View



EUT - Top View

Test Report No.	15070360-FCC-R
Page	49 of 58



EUT - Bottom View

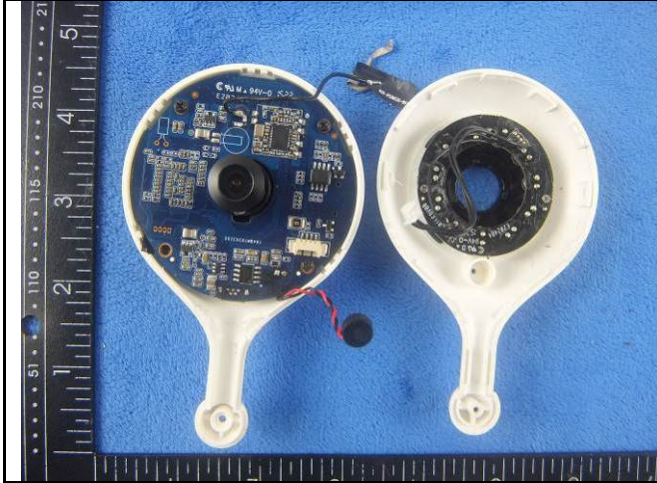


EUT - Left View

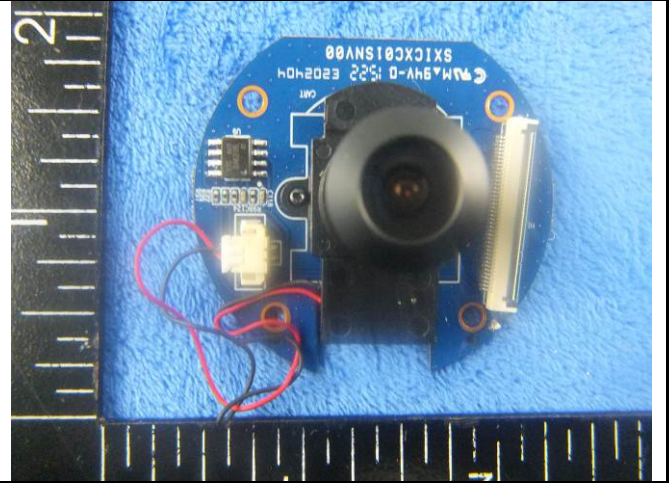


EUT - Right View

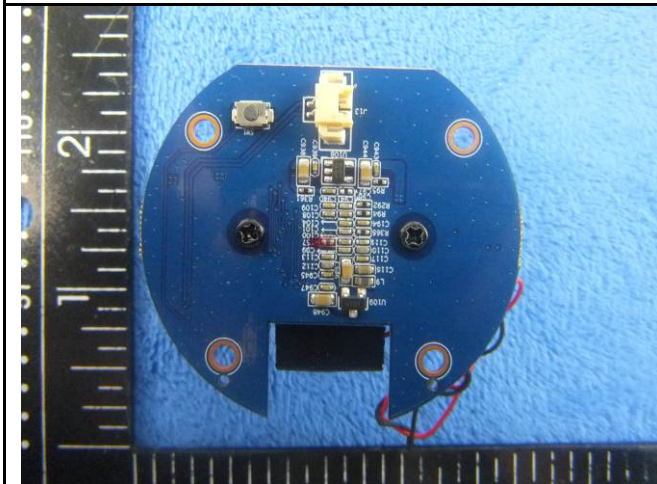
Annex B.ii. Photograph: EUT Internal Photo



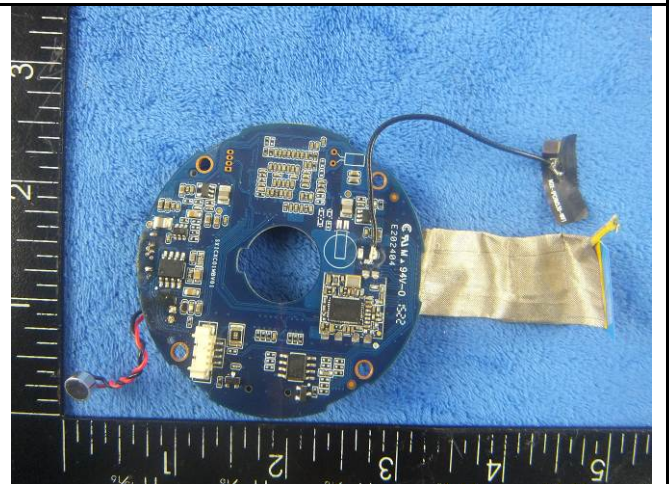
EUT - Uncover Front View



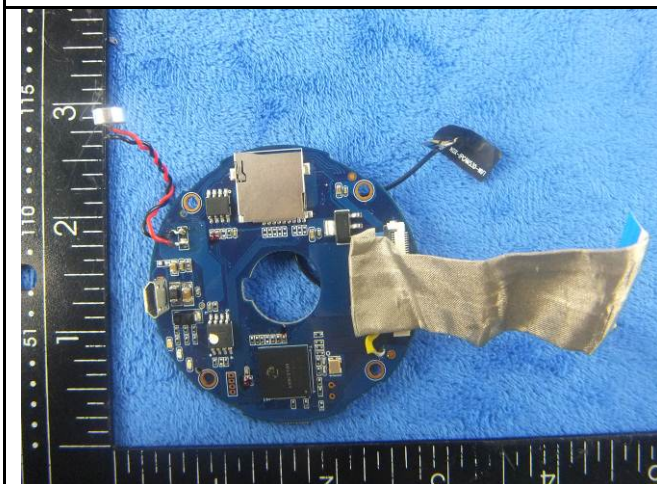
Camera Board - Front View



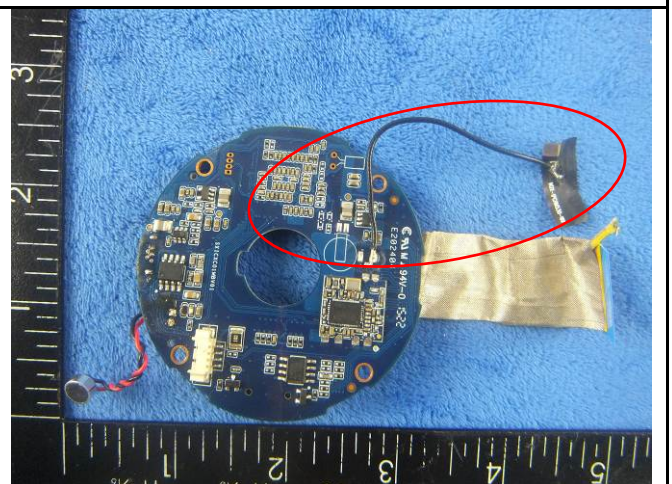
Camera Board - Rear View



Main Board-Front View



Main Board-Rear View



Antenna View

Annex B.iii. Photograph: Test Setup Photo



Conducted Emission and Adapter 1– Front View



Conducted Emission and Adapter 1– Rear View



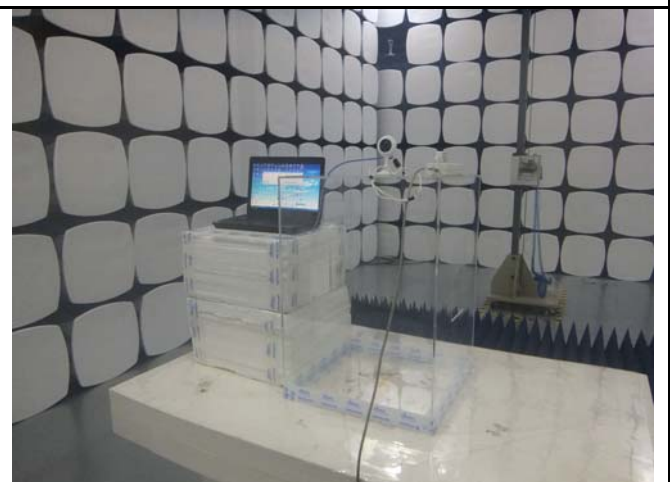
Conducted Emission and Adapter 2– Front View



Conducted Emission and Adapter 2– Rear View



Radiated Spurious Emissions Test Setup Below 1GHz
Adapter 1

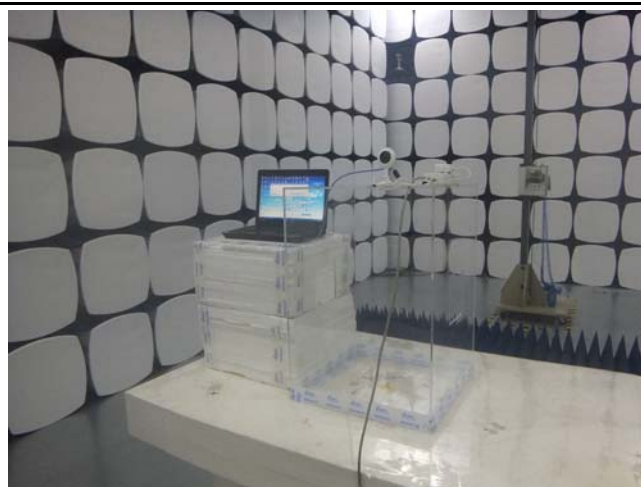


Radiated Spurious Emissions Test Setup Above
1GHz - Adapter 1

Test Report No.	15070360-FCC-R
Page	52 of 58



Radiated Spurious Emissions Test Setup Below 1GHz
Adapter 2

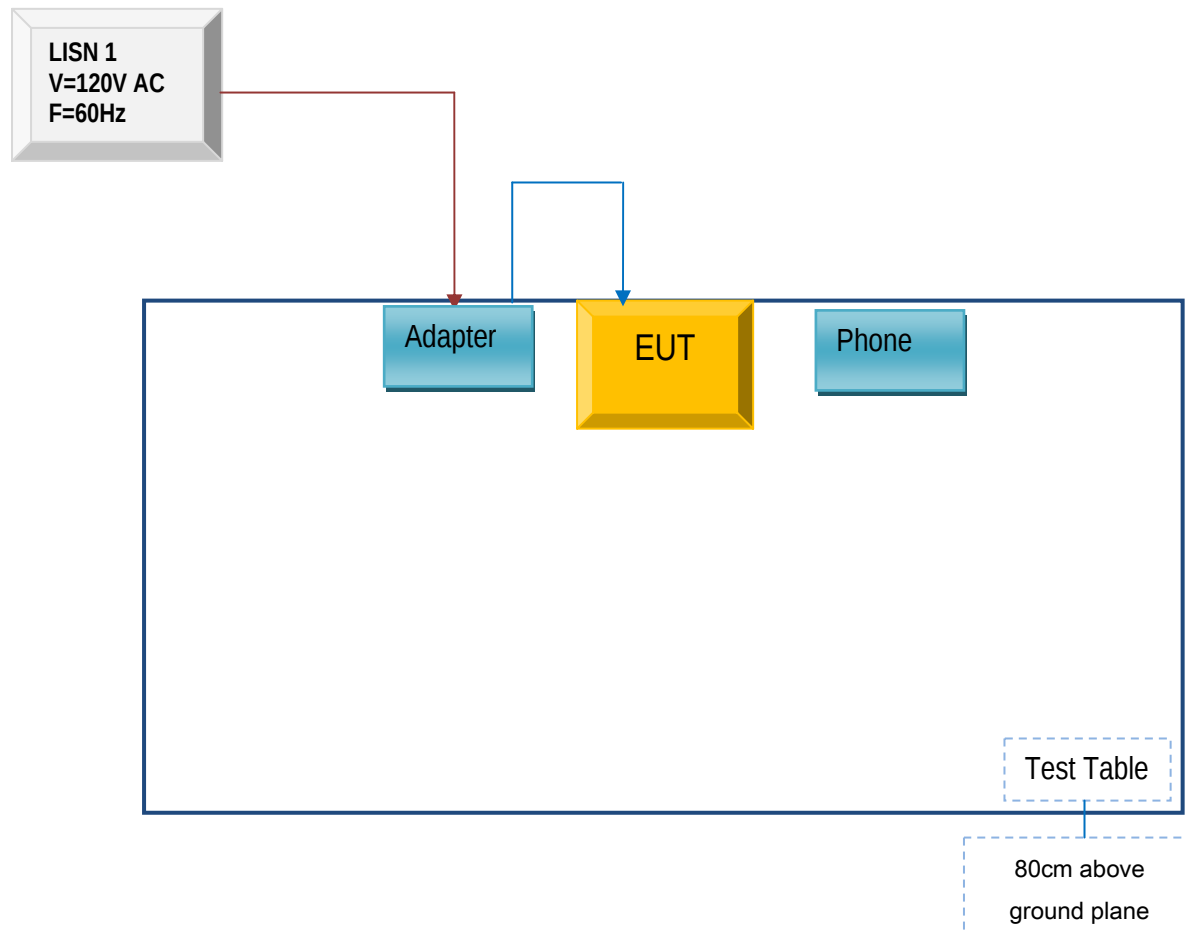


Radiated Spurious Emissions Test Setup Above
1GHz - Adapter 2

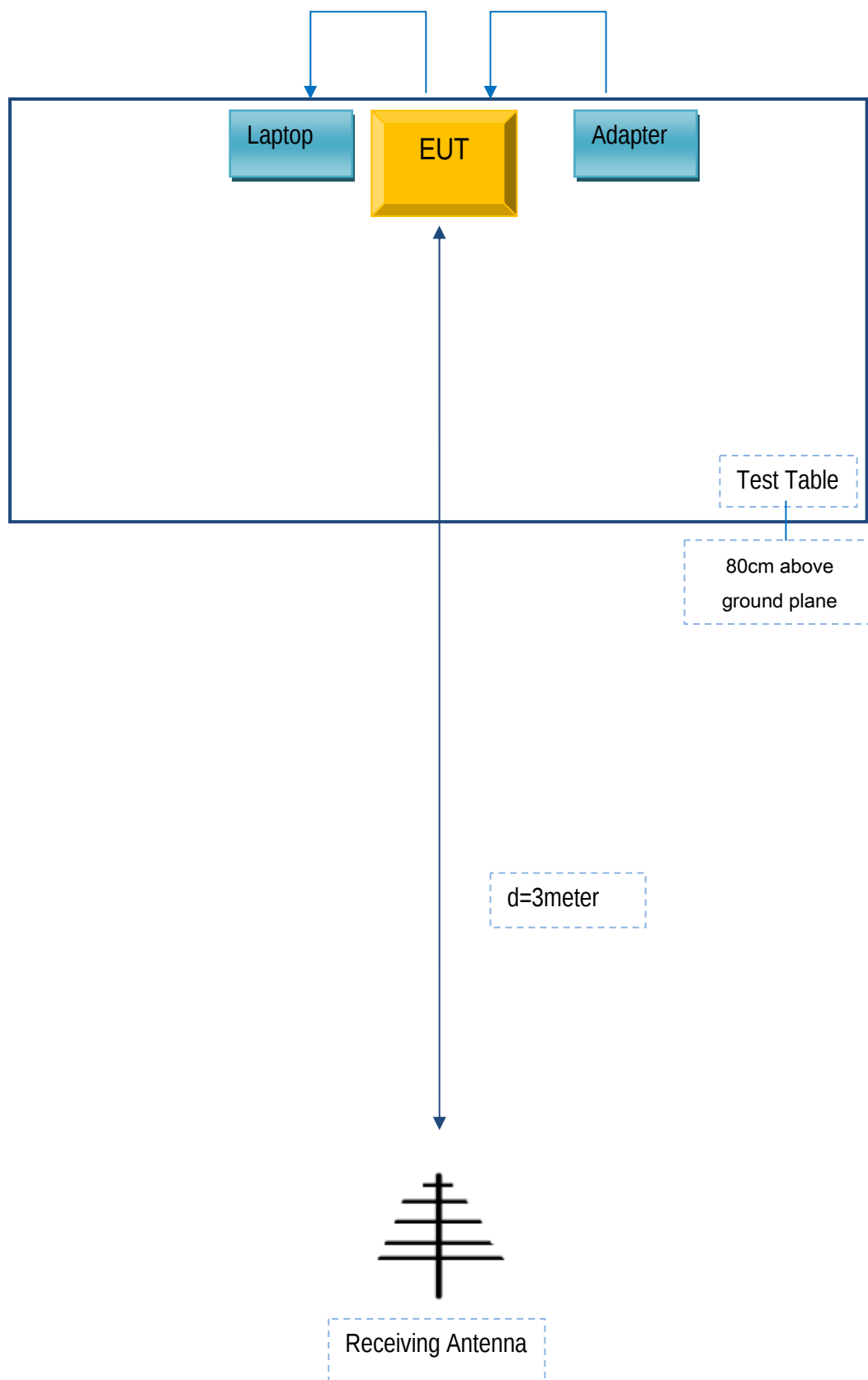
Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

Annex C.ii. TEST SET UP BLOCK

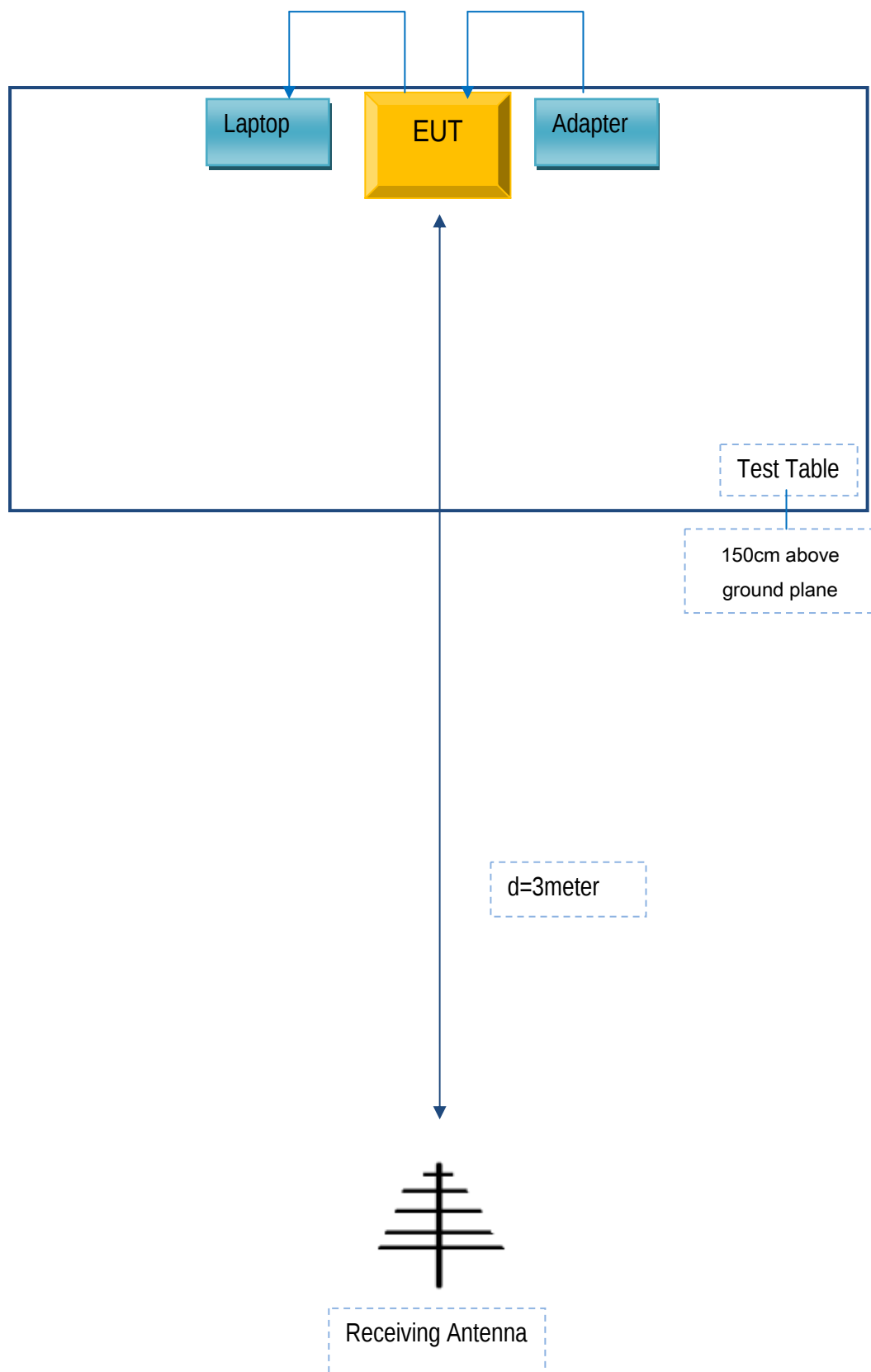
Block Configuration Diagram for AC Line Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Block Configuration Diagram for Radiated Emissions



Test Report No.	15070360-FCC-R
Page	56 of 58

Annex C. ii. SUPPORTING EQUIPMENT DESCRIPTION

The following is a description of supporting equipment and details of cables used with the EUT.

Manufacturer	Equipment Description	Model	Calibration Date	Calibration Due Date
Lenovo	Lenovo Laptop	E40& 0579A52	N/A	N/A

Test Report No.	15070360-FCC-R
Page	57 of 58

Annex D. User Manual / Block Diagram / Schematics / Partlist

Please see attachment

Test Report No.	15070360-FCC-R
Page	58 of 58

Annex E. DECLARATION OF SIMILARITY

N/A