

FCC Test Report

Application Purpose : Original grant
Applicant Name: : HUNG WAI PRODUCTS LIMITED
FCC ID : 2AB6Z-MS-W10
Equipment Type : 8 inch Windows OS Tablet
Model Name : DT080-MS-W10
Report Number : FCC170604781A-3
Standard(S) : FCC Part 15 Subpart C
Date Of Receipt : June 09, 2017
Date Of Issue : July 01, 2017

Test By : 

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REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	July 01, 2017	Valid	Original Report

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1. GENERAL INFORMATION

GENERAL DESCRIPTION OF EUT

Test Model	DT080-MS-W10
Applicant	HUNG WAI PRODUCTS LIMITED
Address	Unit 11, 12/F., New Commerce Centre, 19 On Sum Street, Shatin, Hong Kong
Manufacturer	HUNG WAI ELECTRONICS (HUIZHOU) LTD
Address	3rd floor, NO. 1, Minfeng Road, Huinan High and New Technology Industry Park, Huiao Avenue, Huizhou City, Guangdong
Equipment Type	8 inch Windows OS Tablet
Brand Name	N/A
Hardware version:	V02
Software version:	CSR1.0.12
Extreme Temp. Tolerance	-10°C to +55°C
Adapter Information:	Adapter: PS12F120K1000UD Input: AC 100~240V 50/60Hz 0.35A Output: DC 12V --- 1000mA
Battery information:	Li-Polymer Battery : 266177YL Voltage: 3.7V Capacity: 1000mAh Limited Charge Voltage: 4.2V
Operating Frequency	2412-2462MHz
Channels	11
Channel Spacing	5MHz
Modulation Type	CCK for IEEE 802.11b OFDM for IEEE 802.11g/n HT-20/n HT-40
Antenna Type:	detachable antenna
Antenna gain:	2.86dBi
Data of receipt	June 01, 2017
Date of test	June 20, 2017 to July 01, 2017
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

All measurement facilities used to collect the measurement data are located at QTC Certification & Testing Co., Ltd.

Registration Number: 588523

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.10-2013. The sample tested as described in this report is in compliance with the FCC Rules Part15 Subpart C.

ALL the testing were referenced KDB NO.558074V04

The offset factor to the measurement is conducted as the average.

The test results of this report relate only to the tested sample identified in this report.

2. TEST DESCRIPTION

2.1 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately **95** %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 3.2\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(<1G)	$\pm 4.7\text{dB}$
5	All emissions, radiated(>1G)	$\pm 4.7\text{dB}$
6	Temperature	$\pm 0.5^{\circ}\text{C}$
7	Humidity	$\pm 2\%$

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	802.11b
Mode 2	802.11g
Mode 3	802.11n20
Mode 4	802.11n40

For Conducted Emission	
Final Test Mode	Description
Mode 1	802.11b

For Radiated Emission	
Final Test Mode	Description
Mode 1	802.11b
Mode 2	802.11g
Mode 3	802.11n20
Mode 4	802.11n40

Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

(2) The EUT use new battery.

(3)The data rate was set in 1Mbps, 6 Mbps, 6.5 Mbps and 13.5M for radiated emission due to the highest RF output power.

(4) Record the worst case of each test item in this report.

(5) when we test the equipment, duty cycle≥98%.

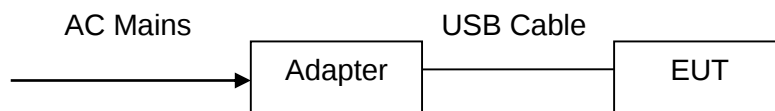
2.3 TABLE OF PARAMETERS OF TEXT SOFTWARE SETTING

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters of FHSS

Test software Version	N/A
Test program	*#3646633#*

Frequency(802.11b/g/n20)	2412 MHz	2437 MHz	2462 MHz
Frequency(802.11n40)	2422 MHz	2437 MHz	2452 MHz

2.4 CONFIGURATION OF SYSTEM UNDER TEST



(EUT: 8 inch Windows OS Tablet)

I/O Port of EUT			
I/O Port Type	Q'TY	Cable	Tested with
USB port	1	1m USB cable, unshielded	1
Power	1	1m	1

2.5 DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	/	PS12F120K1000UD	/	/
2	Earphone	/	N/A	/	/

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.
- (4) The adapter supply by the applicant.

3. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.247) , Subpart C			
Standard Section	Test Item	Judgment	Remark
15.207	Conducted Emission Test	PASS	Complies
15.247(a)(2) Limit	Spectrum bandwidth of a Orthogonal Frequency Division Multiplex System Limit: 6dB bandwidth>500kHz	PASS	Complies
15.247(b)	Maximum peak outputpower Limit: max. 30dBm	PASS	Complies
15.109,15.205 & 15.209	Transmitter Radiated Emission Limit: Table 15.209	PASS	Complies
15.247(e)	Power Spectral Density Limit: max. 8dBm	PASS	Complies
15.247(d)	Band edge Limit: 30dB less than Reference level Restricted band limit: Table 15.209	PASS	Complies

NOTE:

(1) "N/A" denotes test is not applicable in this test report.

4. MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
EMI Test Receiver	R&S	ESCI	100005	08/19/2016	08/18/2017
LISN	AFJ	LS16	16010222119	08/19/2016	08/18/2017
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2016	08/18/2017
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2016	08/18/2017
Coaxial cable	Megalon	LMR400	N/A	08/12/2016	08/11/2017
GPIO cable	Megalon	GPIO	N/A	08/12/2016	08/11/2017
Spectrum Analyzer	R&S	FSU	100114	08/19/2016	08/18/2017
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2016	10/12/2017
Pre-Amplifier	CDSI	PAP-1G18-38	--	10/13/2016	10/12/2017
Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2016	09/12/2017
9*6*6 Anechoic	--	--	--	08/21/2016	08/20/2017
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	09/13/2016	09/12/2017
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2016	08/22/2017
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/25/2016	04/24/2017
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	08/21/2016	08/20/2017
Loop Antenna	EMCO	6502	00042960	08/22/2016	08/21/2017
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2016	08/18/2017
Power meter	Anritsu	ML2487A	6K00003613	08/23/2016	08/22/2017
Power sensor	Anritsu	MX248XD	--	08/19/2016	08/18/2017

5. EMC EMISSION TEST

5.1 CONDUCTED EMISSION MEASUREMENT

5.1.1 POWER LINE CONDUCTED EMISSION Limits (Frequency Range 150KHz-30MHz)

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

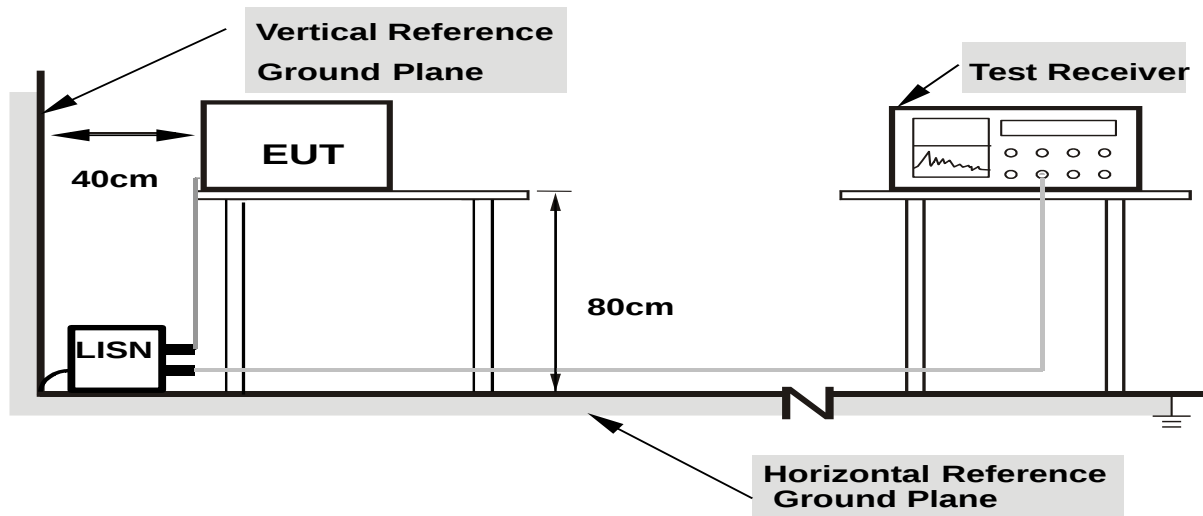
5.1.2 TEST PROCEDURE

- The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- LISN at least 80 cm from nearest part of EUT chassis.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

5.1.3 DEVIATION FROM TEST STANDARD

No deviation

5.1.4 TEST SETUP



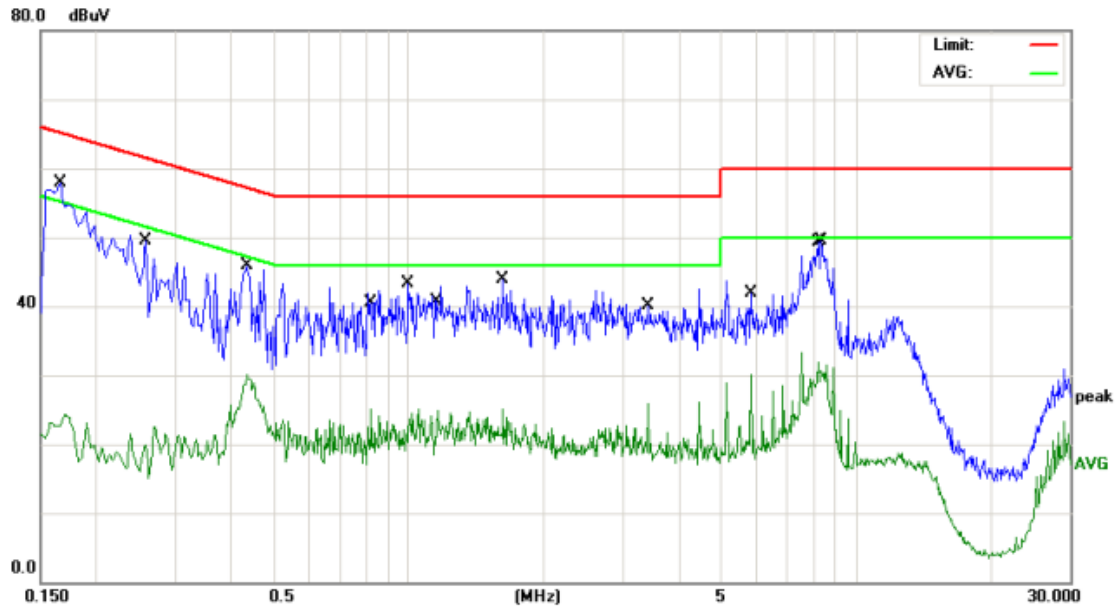
Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

5.1.5 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

5.1.6 TEST RESULTS

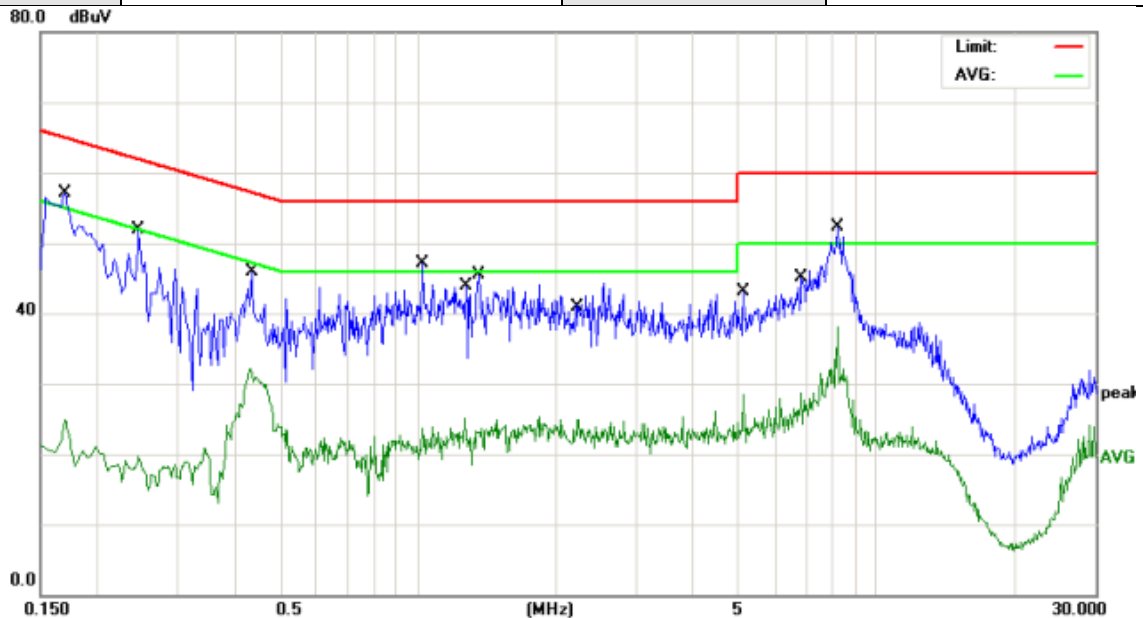
EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	L
Test Date	June 26, 2017	Test Mode	Mode 1



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1	*	0.1660	46.16	11.68	57.84	65.15	-7.31	QP
2		0.2580	38.40	11.12	49.52	61.49	-11.97	QP
3		0.4340	34.93	10.90	45.83	57.18	-11.35	QP
4		0.4380	18.66	10.89	29.55	47.10	-17.55	AVG
5		0.8260	14.38	10.71	25.09	46.00	-20.91	AVG
6		0.9980	32.67	10.63	43.30	56.00	-12.70	QP
7		1.1620	14.23	10.62	24.85	46.00	-21.15	AVG
8		1.6220	33.22	10.60	43.82	56.00	-12.18	QP
9		3.4220	15.44	10.56	26.00	46.00	-20.00	AVG
10		5.8180	19.48	10.54	30.02	50.00	-19.98	AVG
11		8.2100	21.29	10.57	31.86	50.00	-18.14	AVG
12		8.3620	38.85	10.57	49.42	60.00	-10.58	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	26 °C	Relative Humidity	54%
Pressure	1010hPa	Phase	N
Test Date	June 26, 2017	Test Mode	Mode 1



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Over dB	Detector
1		0.1700	45.49	11.62	57.11	64.96	-7.85	QP
2		0.2460	40.78	11.14	51.92	61.89	-9.97	QP
3		0.4340	34.91	10.90	45.81	57.18	-11.37	QP
4		0.4351	20.34	10.89	31.23	47.15	-15.92	AVG
5		1.0260	36.39	10.63	47.02	56.00	-8.98	QP
6		1.2660	14.39	10.63	25.02	46.00	-20.98	AVG
7		1.3580	34.95	10.62	45.57	56.00	-10.43	QP
8		2.2380	14.31	10.58	24.89	46.00	-21.11	AVG
9		5.1380	18.01	10.53	28.54	50.00	-21.46	AVG
10		6.8460	18.14	10.57	28.71	50.00	-21.29	AVG
11	*	8.2180	41.73	10.57	52.30	60.00	-7.70	QP
12		8.2180	27.48	10.57	38.05	50.00	-11.95	AVG

Remark: All the modes have been investigated, and only worst mode is presented in this report.

5.2 RADIATED EMISSION MEASUREMENT

5.2.1 RADIATED EMISSION LIMITS (Frequency Range 9kHz-1000MHz)

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

5.2.2 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

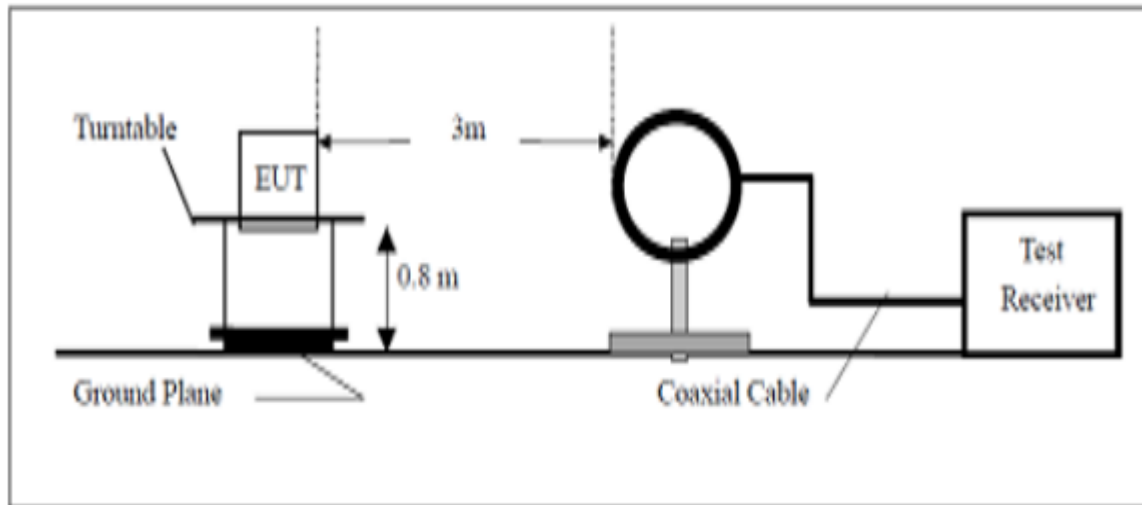
***Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported***

5.2.3 DEVIATION FROM TEST STANDARD

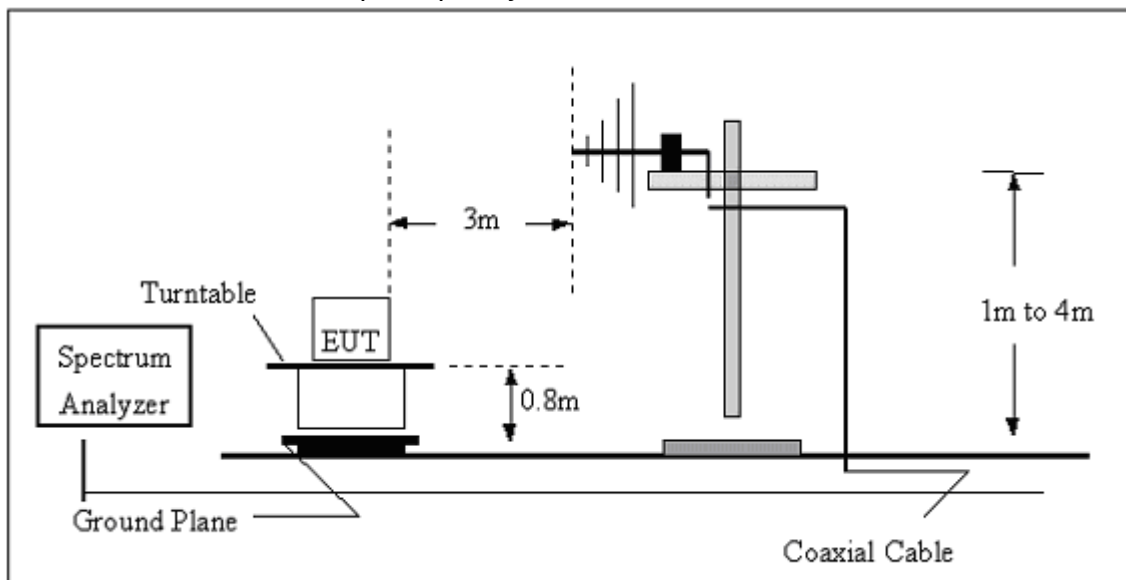
No deviation

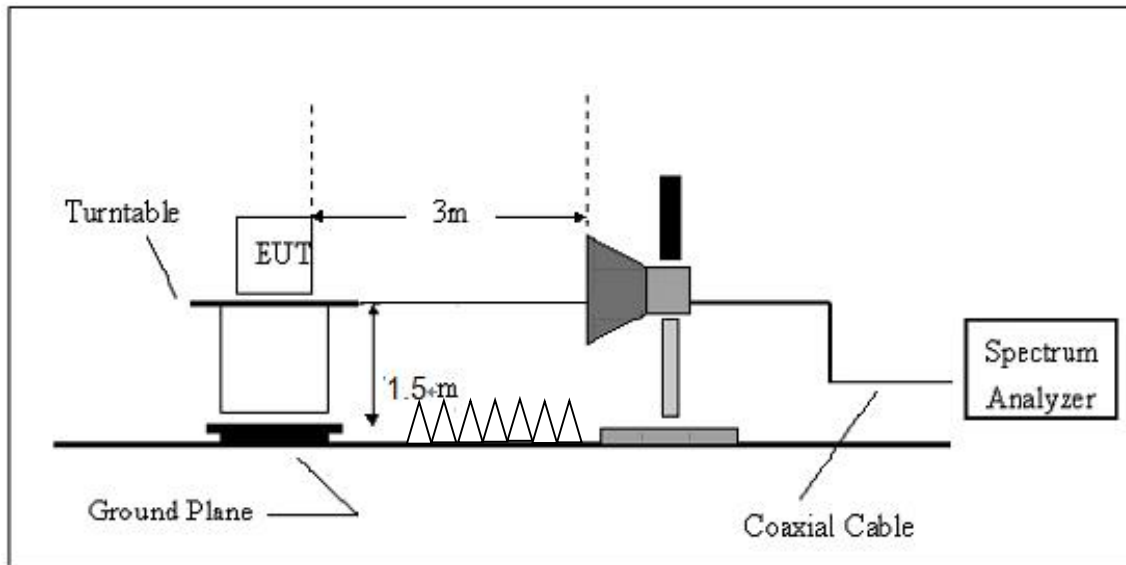
5.2.4 TEST SETUP

(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz**5.2.5 EUT OPERATING CONDITIONS**

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

5.2.5.1 RESULTS (BELOW 30 MHZ)

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization	---
Test Mode	Mode 1	Test Date	June 26, 2017

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	P
--	--	--	--	P

NOTE:

No result in this part for margin above 20dB.

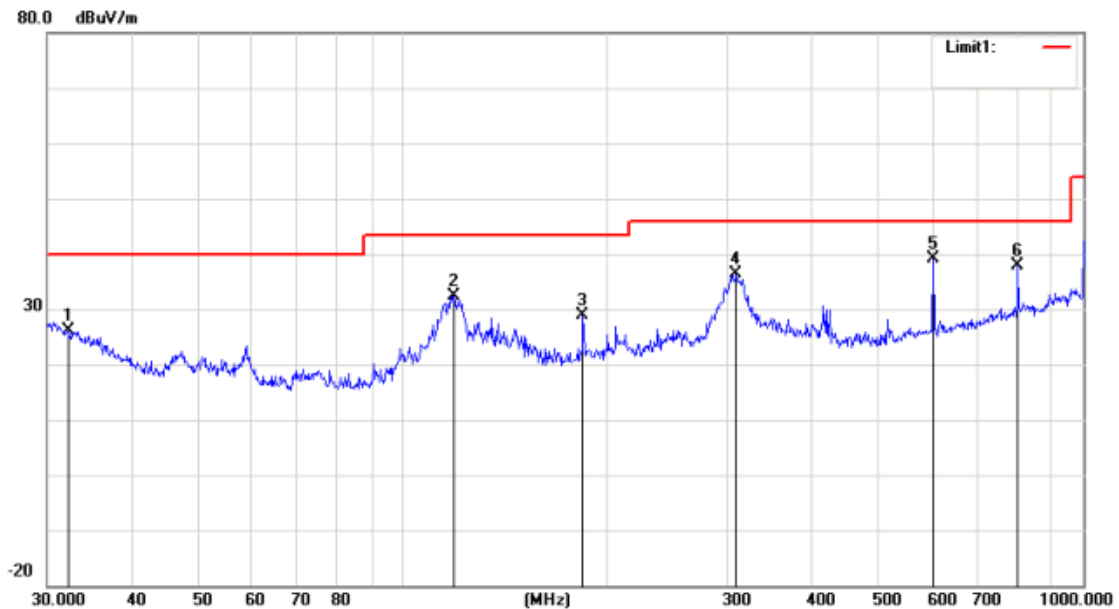
Distance extrapolation factor = $40 \log (\text{specific distance/test distance})(\text{dB})$;

Limit line = specific limits(dBuV) + distance extrapolation factor.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

5.2.5.2 TEST RESULTS (BETWEEN 30M – 1000 MHZ)

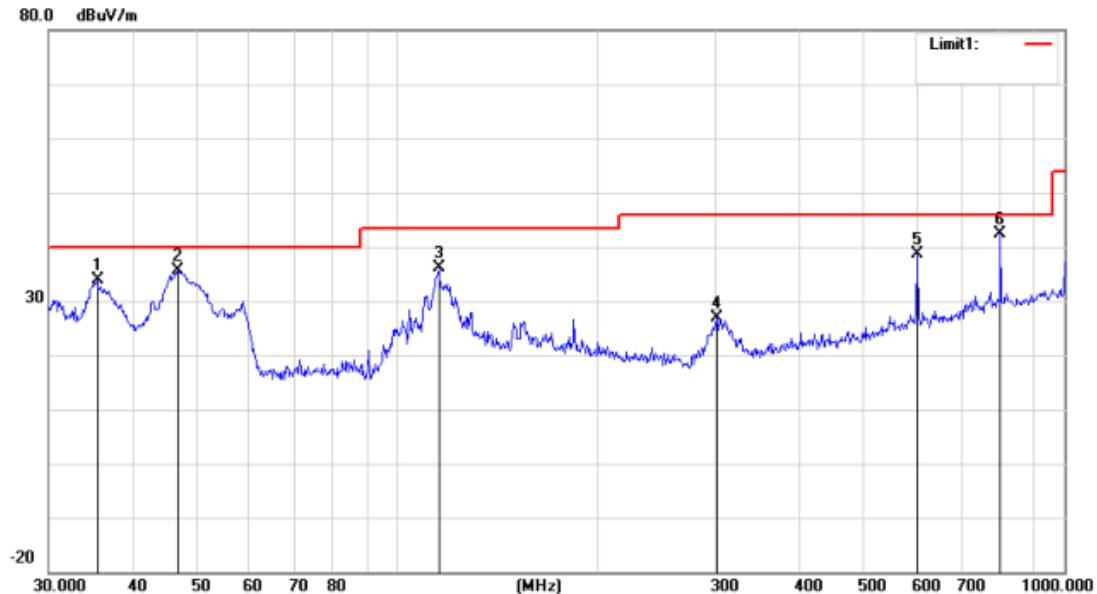
EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Horizontal
Test Mode	Mode 1	Test Date	June 26, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		32.1795	24.11	2.03	26.14	40.00	-13.86	QP
2		119.0180	34.77	-2.41	32.36	43.50	-11.14	QP
3		183.8440	34.03	-5.25	28.78	43.50	-14.72	QP
4		308.9126	40.90	-4.47	36.43	46.00	-9.57	QP
5	*	601.4265	38.11	1.04	39.15	46.00	-6.85	QP
6		801.7863	33.65	4.29	37.94	46.00	-8.06	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Polarization :	Vertical
Test Mode	Mode 1	Test Date	June 26, 2017



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector
1		35.4993	33.99	-0.23	33.76	40.00	-6.24	QP
2		46.8303	43.20	-7.56	35.64	40.00	-4.36	QP
3		115.3205	38.94	-2.74	36.20	43.50	-7.30	QP
4		301.4224	32.48	-5.54	26.94	46.00	-19.06	QP
5		601.4265	37.47	1.04	38.51	46.00	-7.49	QP
6	*	801.7863	38.15	4.29	42.44	46.00	-3.56	QP

Remark: All the modes have been investigated, and only worst mode is presented in this report.

5.2.5.3 TEST RESULTS (1GHZ TO 25GHZ)

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Test Date	June 26, 2017	Frequency	2412MHz

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4824	V	59.46	40.89	74	54	-14.54	-13.11
7236	V	59.57	39.75	74	54	-14.43	-14.25
4824	H	58.23	39.60	74	54	-15.77	-14.40
7236	H	58.45	39.45	74	54	-15.55	-14.55

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Test Date	June 26, 2017	Frequency	2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4874	V	60.52	39.13	74	54	-13.48	-14.87
7311	V	59.72	40.07	74	54	-14.28	-13.93
4874	H	58.25	39.27	74	54	-15.75	-14.73
7311	H	58.87	39.87	74	54	-15.13	-14.13

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 1 TX
Test Date	June 26, 2017	Frequency	2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4924	V	58.67	39.02	74	54	-15.33	-14.98
7386	V	59.69	40.27	74	54	-14.31	-13.73
4924	H	58.29	40.26	74	54	-15.71	-13.74
7386	H	59.47	40.47	74	54	-14.53	-13.53

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode2 TX
Test Date	June 26, 2017	Frequency	2412MHz

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4824	V	60.15	39.50	74	54	-13.85	-14.50
7236	V	59.27	40.00	74	54	-14.73	-14.00
4824	H	59.19	39.55	74	54	-14.81	-14.45
7236	H	59.84	40.84	74	54	-14.16	-13.16

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2 TX
Test Date	June 26, 2017	Frequency	2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4874	V	58.18	39.45	74	54	-15.82	-14.55
7311	V	58.89	39.90	74	54	-15.11	-14.10
4874	H	58.28	40.70	74	54	-15.72	-13.30
7311	H	58.25	39.25	74	54	-15.75	-14.75

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 2 TX
Test Date	June 26, 2017	Frequency	2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4924	V	58.87	40.59	74	54	-15.13	-13.41
7386	V	58.11	39.03	74	54	-15.89	-14.97
4924	H	59.20	39.54	74	54	-14.80	-14.46
7386	H	59.40	40.40	74	54	-14.60	-13.60

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode3 TX
Test Date	June 26, 2017	Frequency	2412MHz

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4824	V	60.40	39.15	74	54	-13.60	-14.85
7236	V	58.66	39.09	74	54	-15.34	-14.91
4824	H	58.14	39.56	74	54	-15.86	-14.44
7236	H	59.93	40.93	74	54	-14.07	-13.07

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3 TX
Test Date	June 26, 2017	Frequency	2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
4874	V	58.51	39.45	74	54	-15.49	-14.55
7311	V	59.78	40.74	74	54	-14.22	-13.26
4874	H	58.68	39.76	74	54	-15.32	-14.24
7311	H	59.01	40.01	74	54	-14.99	-13.99

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 3 TX
Test Date	June 26, 2017	Frequency	2462MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4924	V	59.93	41.33	74	54	-14.07	-12.67
7386	V	59.75	40.71	74	54	-14.25	-13.29
4924	H	58.09	40.82	74	54	-15.91	-13.18
7386	H	59.53	40.53	74	54	-14.47	-13.47

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode4 TX
Test Date	June 26, 2017	Frequency	2422MHz

Freq. (MHz)	Ant. Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4844	V	58.80	41.77	74	54	-15.20	-12.23
7266	V	58.23	40.94	74	54	-15.77	-13.06
4844	H	58.62	40.27	74	54	-15.38	-13.73
7266	H	59.43	40.43	74	54	-14.57	-13.57

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4 TX
Test Date	June 26, 2017	Frequency	2437MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4874	V	58.11	41.52	74	54	-15.89	-12.48
7311	V	59.67	40.22	74	54	-14.33	-13.78
4874	H	58.76	40.29	74	54	-15.24	-13.71
7311	H	58.86	39.86	74	54	-15.14	-14.14

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

EUT	8 inch Windows OS Tablet	Model Name	DT080-MS-W10
Temperature	20 °C	Relative Humidity	48%
Pressure	1010 hPa	Test Mode	Mode 4 TX
Test Date	June 26, 2017	Frequency	2452MHz

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
4904	V	58.40	39.35	74	54	-15.60	-14.65
7356	V	59.94	39.27	74	54	-14.06	-14.73
4904	H	58.46	40.06	74	54	-15.54	-13.94
7356	H	58.37	39.37	74	54	-15.63	-14.63

Remark:

All emissions not reported were more than 20dB below the specified limit or in the noise floor.

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

6. ANTENNA APPLICATION

6.1 Antenna requirement

The EUT'S antenna is met the requirement of FCC part 15C section 15.203 and 15.247

FCC part 15C section 15.247 requirements: Systems operating in the 2402-2480MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum peak output power of the intentional radiator is reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

6.2 Result

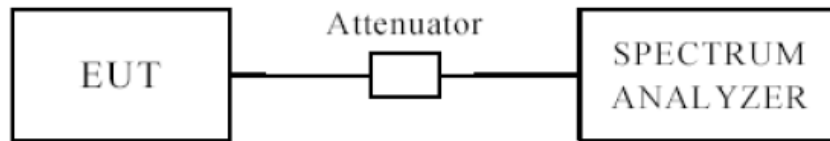
The EUT's antenna is detachable antenna, The antenna's gain is 2.86dBi and meets the requirement.

PR-SMA antenna detail photograph



7.0. 6DB BANDWIDTH MEASUREMENT

7.1 TEST SETUP



7.2 LIMITS OF 6DB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is >500 kHz

7.3 TEST PROCEDURE

1. Set resolution bandwidth (RBW) = 100 kHz
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.4 TEST RESULT

6dB Occupied Bandwidth

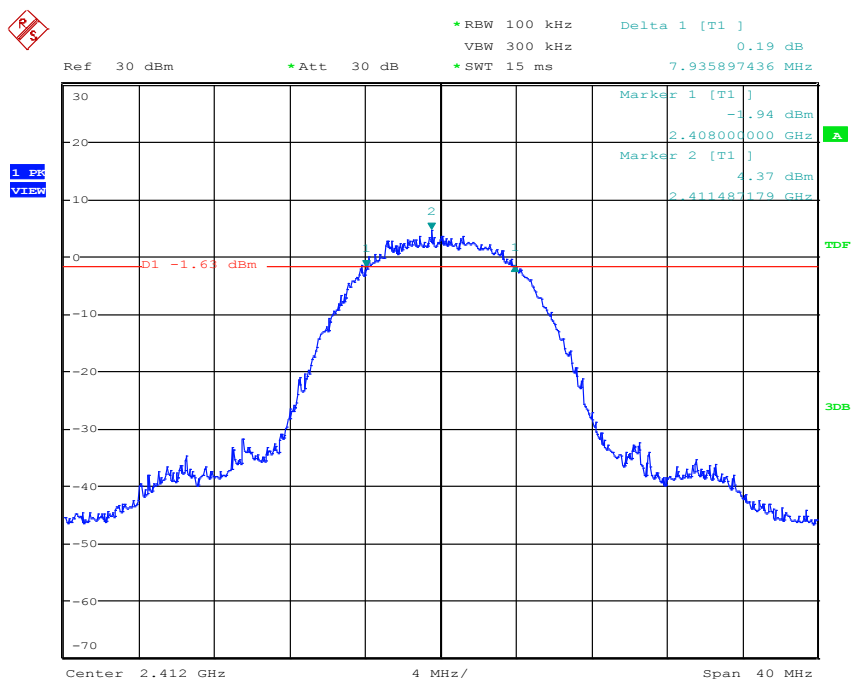
EUT		8 inch Windows OS Tablet	Model Name		DT080-MS-W10
Mode		802.11b	Humidity		56% RH
Temperature		24 deg. C,			
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	1	7935.9	0.5	Pass
6	2437	1	8294.9	0.5	Pass
11	2462	1	8474.4	0.5	Pass

EUT		8 inch Windows OS Tablet	Model Name		DT080-MS-W10
Mode		802.11g	Humidity		56% RH
Temperature		24 deg. C,			
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass/ Fail
1	2412	6	15807.7	0.5	Pass
6	2437	6	15884.6	0.5	Pass
11	2462	6	15717.9	0.5	Pass

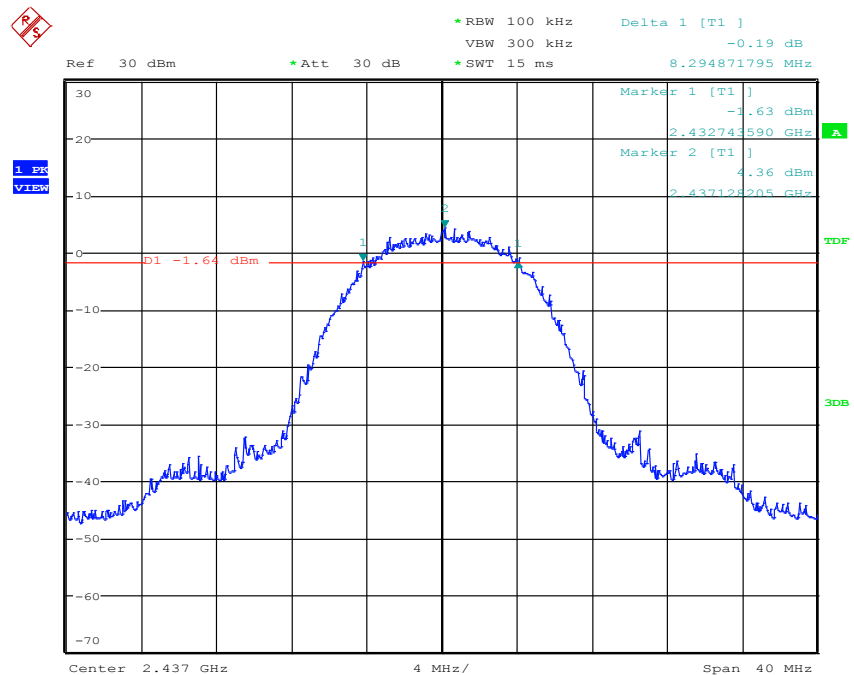
EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11n20		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass/ Fail		
1	2412	6.5	17679.4	0.5	Pass		
6	2437	6.5	17717.9	0.5	Pass		
11	2462	6.5	15359.0	0.5	Pass		

EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11n40		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)	Data Transfer Rate (Mbps)	6 dB Bandwidth (kHz)	Minimum Limit (MHz)	Pass/ Fail		
3	2422	13.5	36371.8	0.5	Pass		
6	2437	13.5	36051.3	0.5	Pass		
9	2452	13.5	36307.7	0.5	Pass		

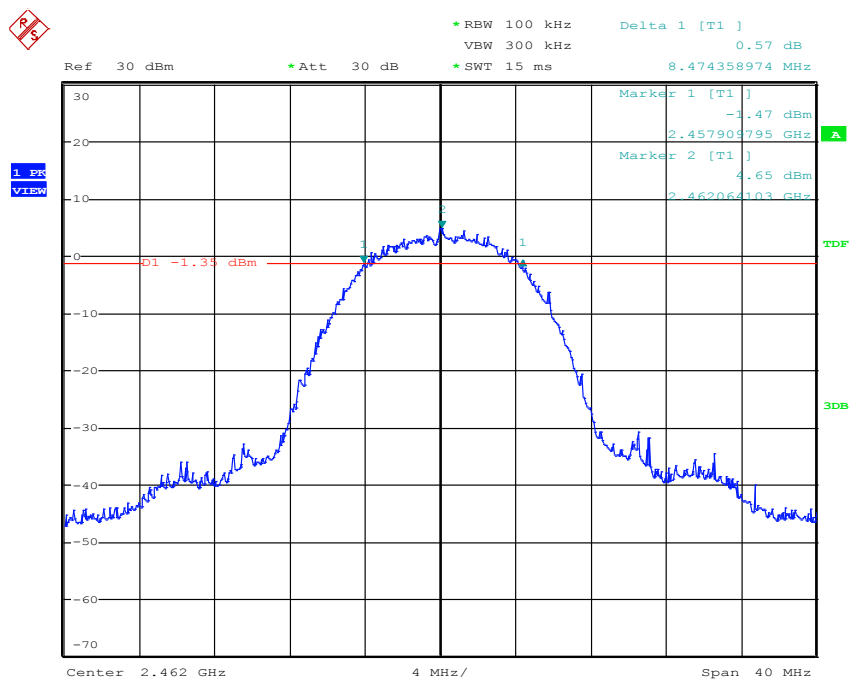
802.11b at 1Mbps of CH1



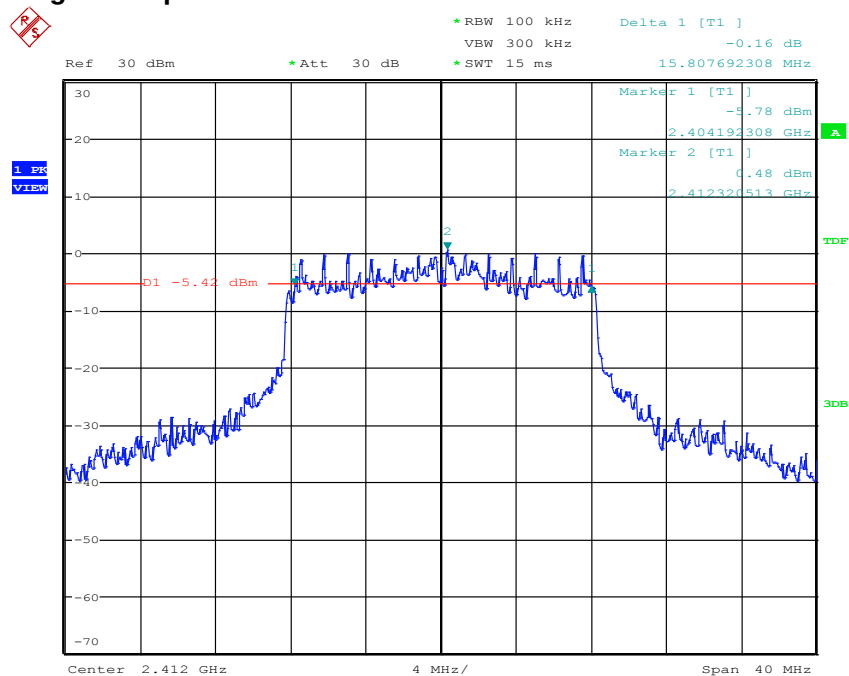
802.11b at 1Mbps of CH6

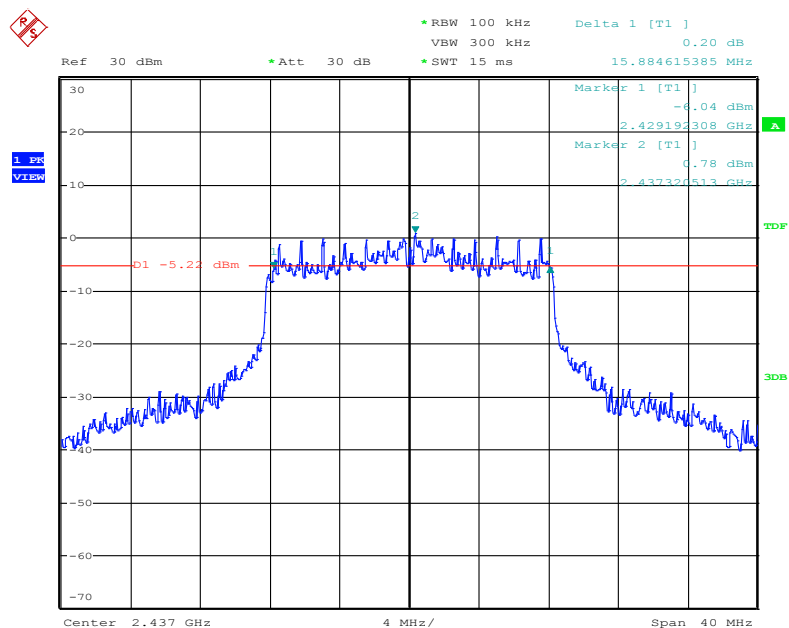
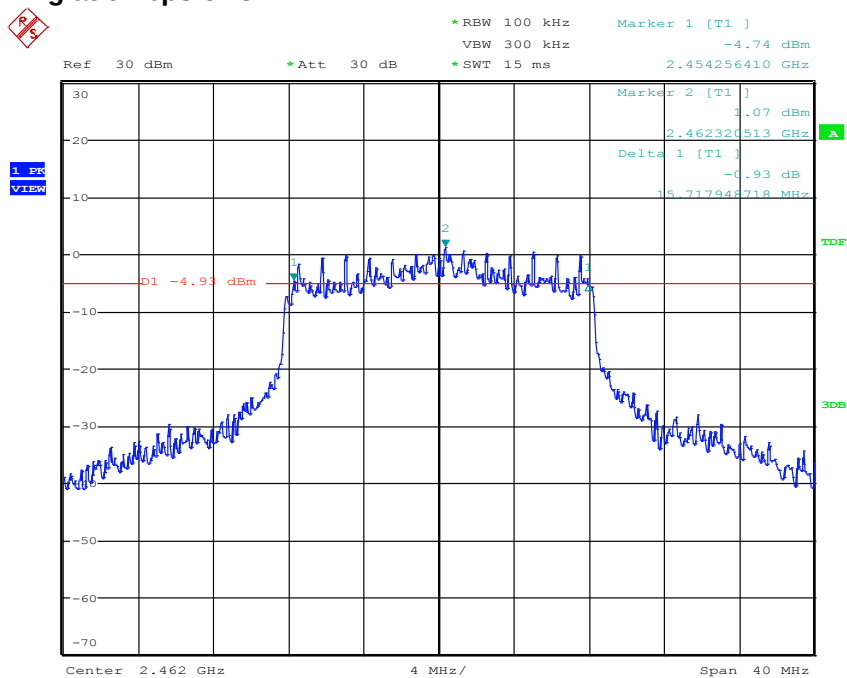


802.11b at 1Mbps of CH11

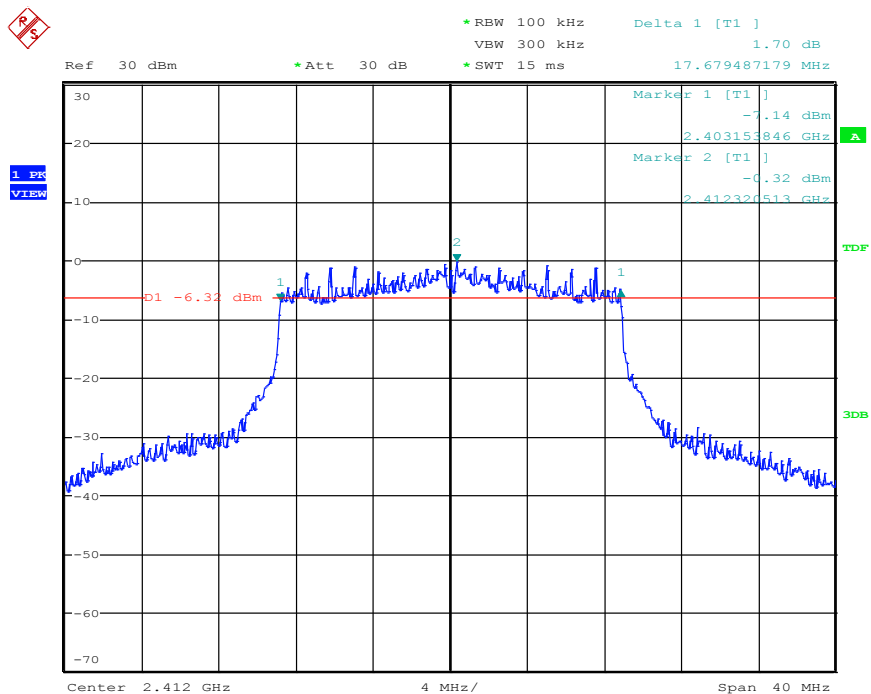


802.11g at 6Mbps of CH1

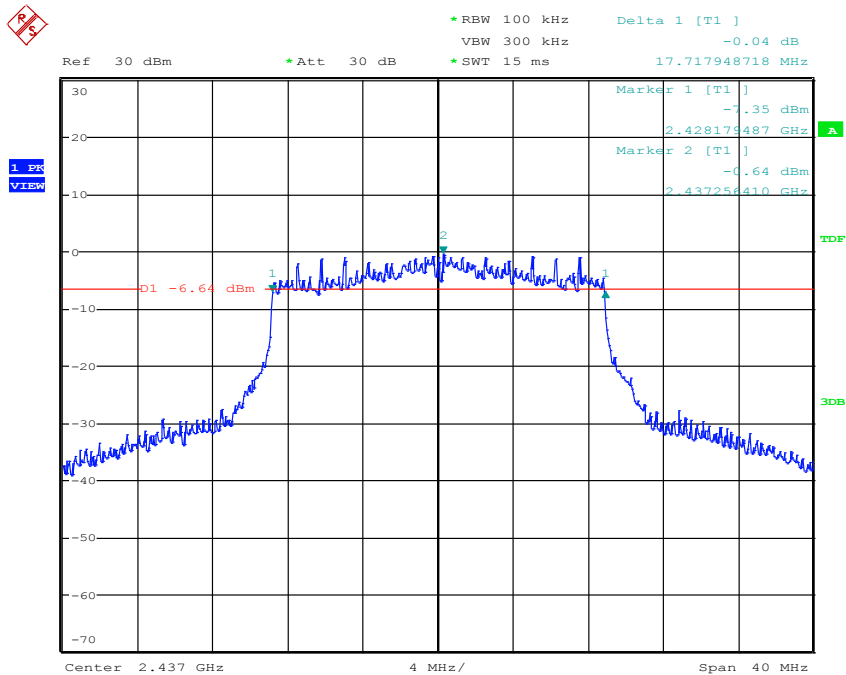


802.11g at 6Mbps of CH6**802.11g at 6Mbps of CH11**

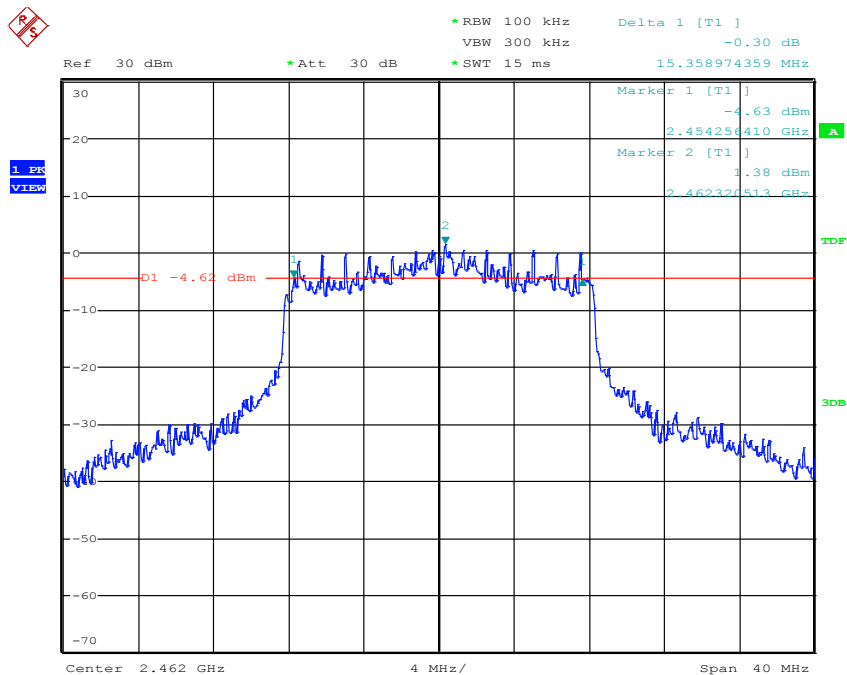
802.11n at HT20 of CH1



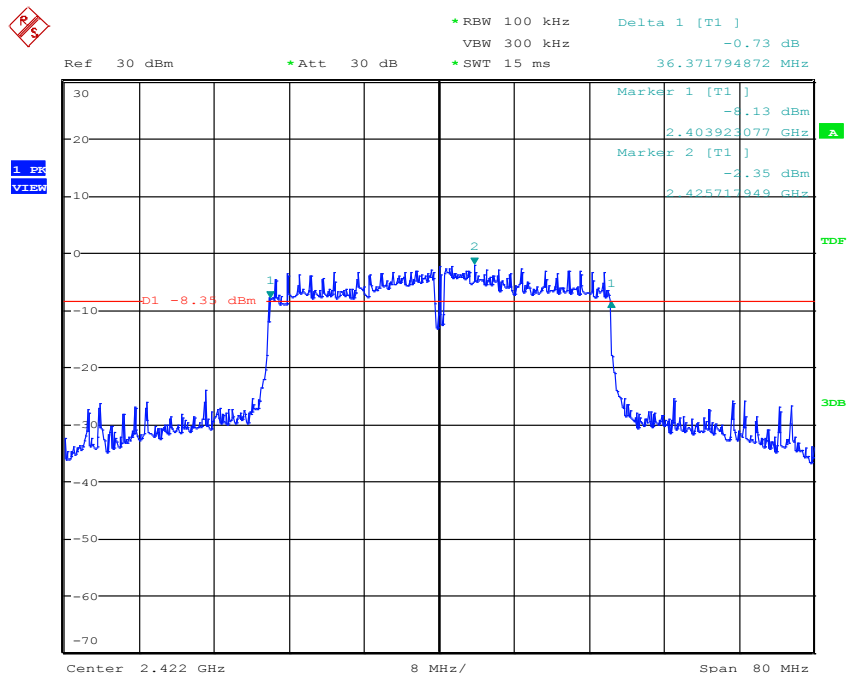
802.11n at HT20 of CH6



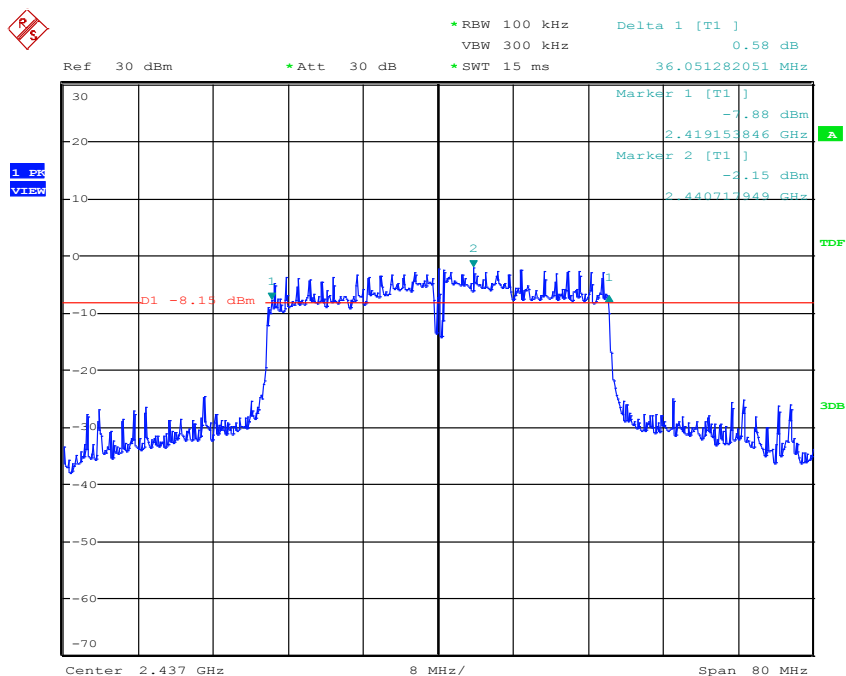
802.11n at HT20 of CH11



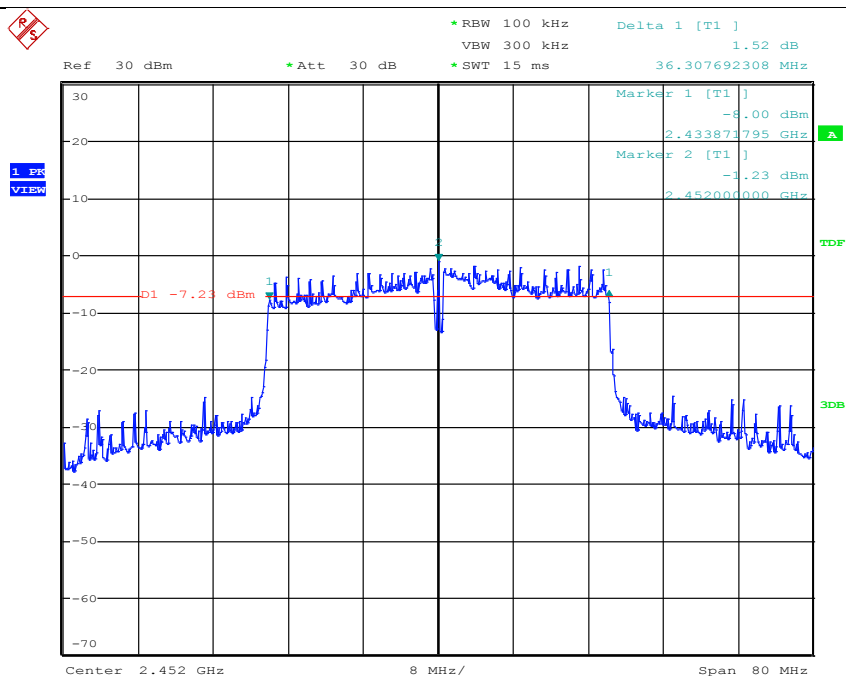
802.11n at HT40 of CH3



802.11n at HT40 of CH6

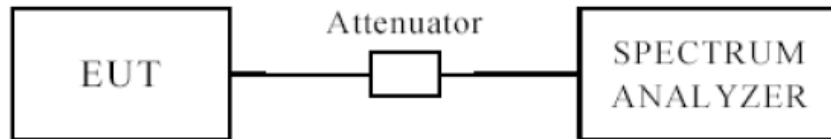


802.11n at HT40 of CH9



8.0. MAXIMUM CONDUCTED (PEAK) OUTPUT POWER

8.1 TEST SETUP



8.2 LIMITS OF MAXIMUM CONDUCTED (PEAK) OUTPUT POWER

The Maximum Peak Output Power Measurement is 30dBm.

8.3 TEST PROCEDURE

Integrated band power method

The following procedure can be used when the maximum available RBW of the instrument is less than the DTS bandwidth:

- Set the RBW = 1 MHz.
- Set the VBW $\geq [3 \cdot \text{RBW}]$.
- Set the span $\geq [1.5 \cdot \text{DTS bandwidth}]$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select the peak detector). If the instrument does not have a band power function, then sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS channel bandwidth.

8.4 TEST RESULTS

EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11b		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)		(AVERAGE) OUTPUT POWER (dBm)		Power Limit (dBm)		Pass/ Fail
1	2412		16.54		30		Pass
6	2437		16.81		30		Pass
11	2462		16.78		30		Pass

Note: 1. At final test to get the worst-case emission at 1Mbps for CH1, CH6 and CH11

2. The result basic equation calculation as follow:

Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT	8 inch Windows OS	Model Name	DT080-MS-W10
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Tablet			
Mode	802.11g	Humidity	56% RH
Temperature	24 deg. C,		
Channel	Channel Frequency (MHz)	(AVERAGE) OUTPUT POWER (dBm)	Power Limit (dBm)
1	2412	15.23	30
6	2437	15.34	30
11	2462	15.53	30
		Pass/ Fail	
		Pass	
		Pass	
		Pass	

Note: 1. At final test to get the worst-case emission at 6 Mbps for CH1, CH6 and CH11

2. The result basic equation calculation as follow:

Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11n(HT20)		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)	(AVERAGE) OUTPUT POWER (dBm)		Power Limit (dBm)		Pass/ Fail	
1	2412	15.05		30		Pass	
6	2437	15.13		30		Pass	
11	2462	15.03		30		Pass	

Note: 1. At final test to get the worst-case emission at 6.5Mbps for CH1, CH6 and CH11

2. The result basic equation calculation as follow:

Power Output = Power Reading + Cable loss + Attenuator

3. The worse case was recorded

EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11n (HT40)		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)	(AVERAGE) OUTPUT POWER (dBm)		Power Limit (dBm)		Pass/ Fail	
3	2422	14.18		30		Pass	
6	2437	14.25		30		Pass	
9	2452	14.40		30		Pass	

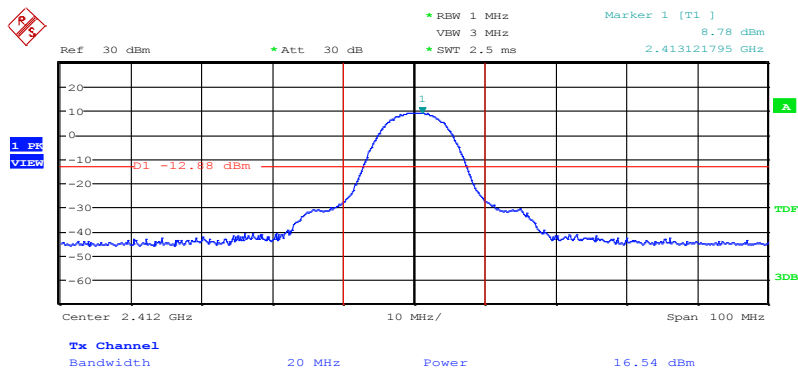
Note: 1. At final test to get the worst-case emission at 13.5Mbps for CH3, CH6 and CH9

2. The result basic equation calculation as follow:

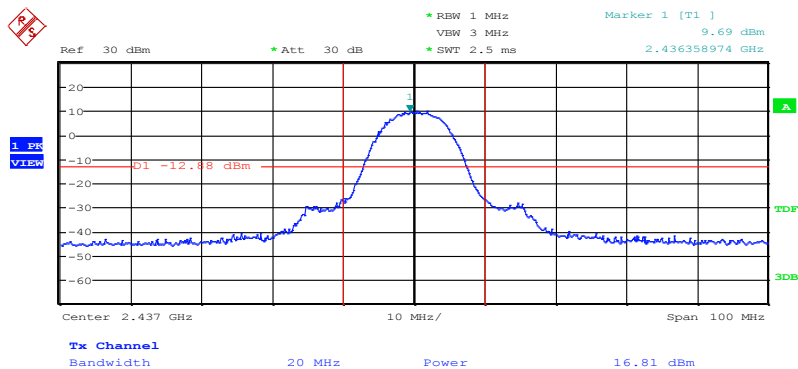
Power Output = Power Reading + Cable loss + Attenuator

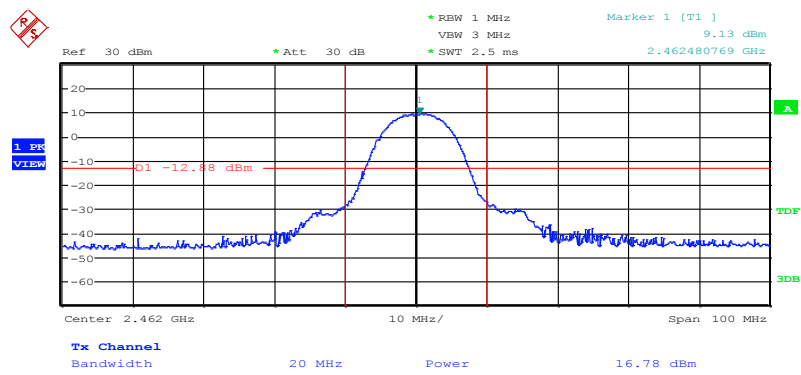
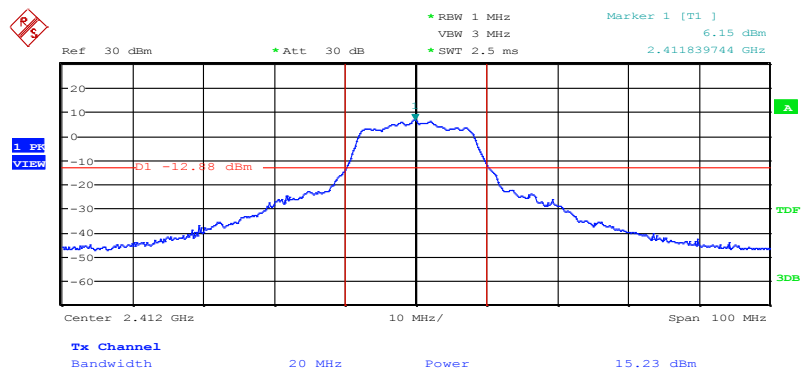
3. The worse case was recorded.

802.11b at 1Mbps of CH1

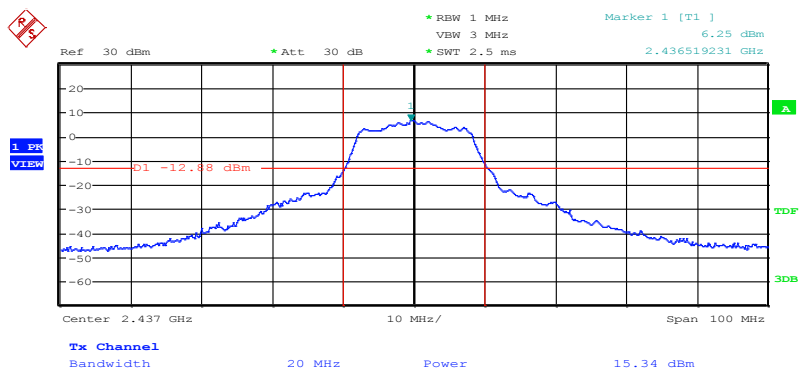


802.11b at 1Mbps of CH6

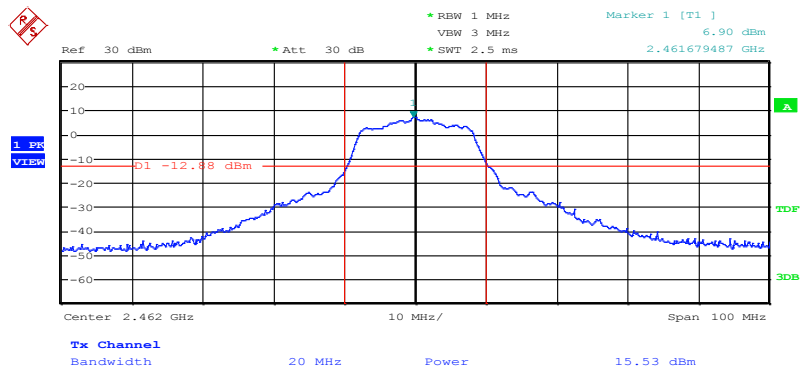


802.11b at 1Mbps of CH11**802.11g at 6Mbps of CH1**

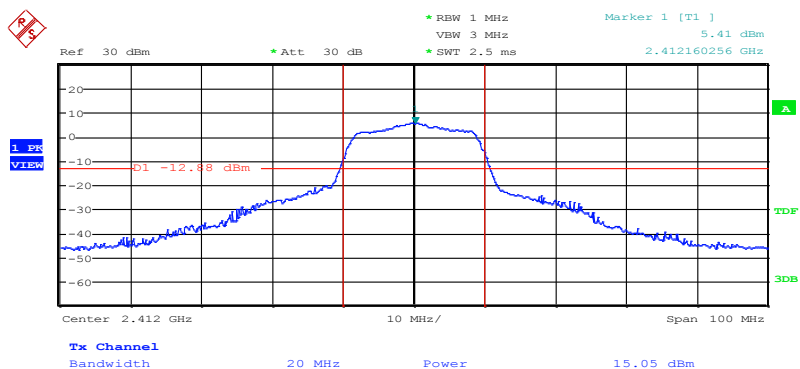
802.11g at 6Mbps of CH6



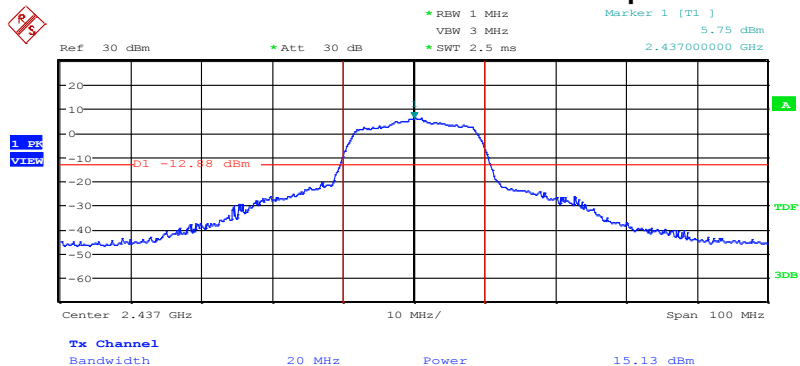
802.11g at 6Mbps of CH11

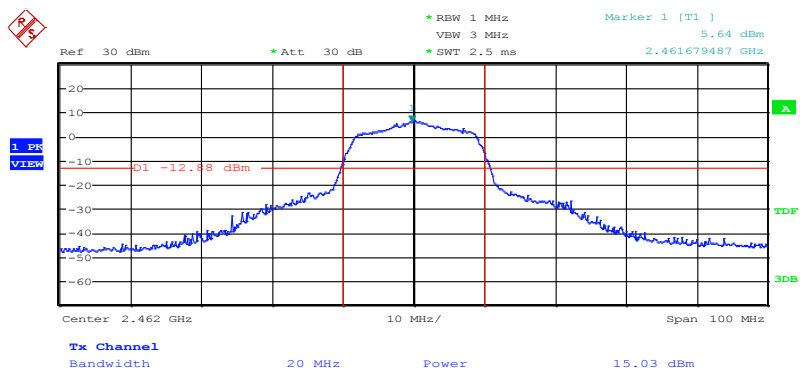
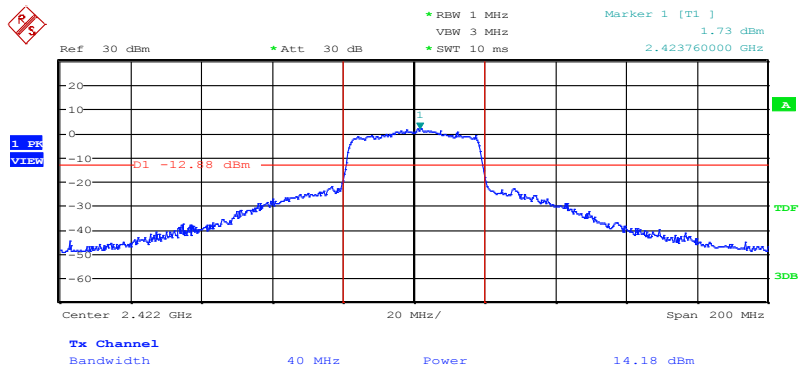


802.11n HT-20 at 6.5Mbps of CH1

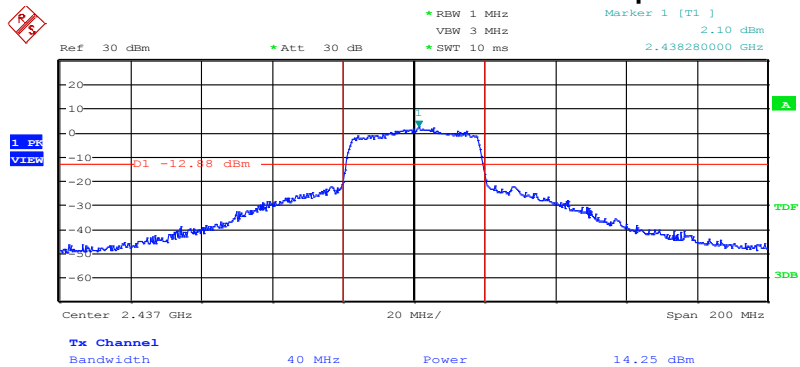


802.11n HT-20 at 6.5Mbps of CH6

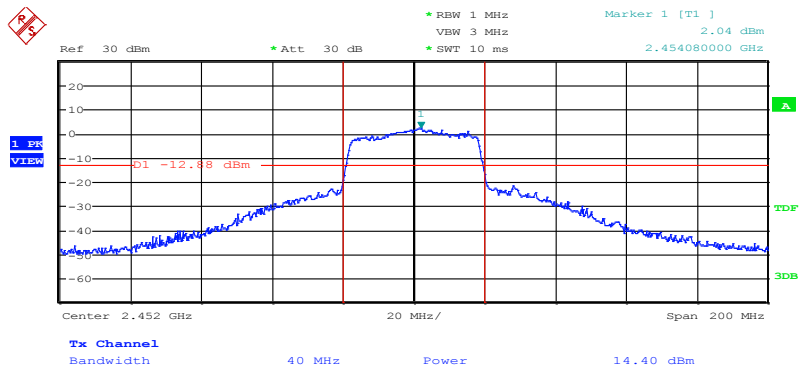


802.11n HT-20 at 6.5Mbps of CH11**802.11n HT-40 at 13.5Mbps of CH3**

802.11n HT-40 at 13.5Mbps of CH6



802.11n HT-40 at 13.5Mbps of CH9



9. POWER SPECTRAL DENSITY MEASUREMENT

9.1 TEST SETUP



9.2 LIMITS OF POWER SPECTRAL DENSITY MEASUREMENT

The Maximum Power Spectral Density Measurement is 8dBm.

9.3 TEST PROCEDURE

1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
2. Set the RBW = 3 kHz.
3. Set the VBW = 10 kHz.
4. Set the span to 1.5 times the DTS channel bandwidth.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
11. The resulting peak PSD level must be ≤ 8 dBm.

9.4 TEST RESULT

EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11b		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)		Final RF Power Level in (dBm)		Maximum Limit (dBm)		Pass/ Fail
1Mbps							
1	2412		-15.95		8		Pass
6	2437		-15.82		8		Pass
11	2462		-17.29		8		Pass

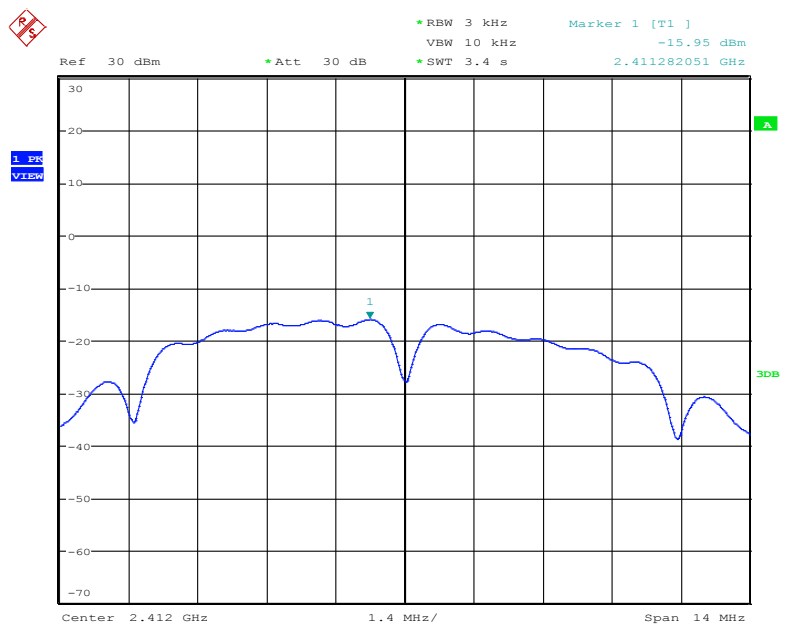
EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11g		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)		Final RF Power Level in (dBm)		Maximum Limit (dBm)		Pass/ Fail
6Mbps							
1	2412		-16.75		8		Pass
6	2437		-17.20		8		Pass
11	2462		-19.74		8		Pass

EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11n HT20		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)		Final RF Power Level in (dBm)		Maximum Limit (dBm)		Pass/ Fail
6.5Mbps							
1	2412		-15.97		8		Pass
6	2437		-16.30		8		Pass
11	2462		-18.52		8		Pass

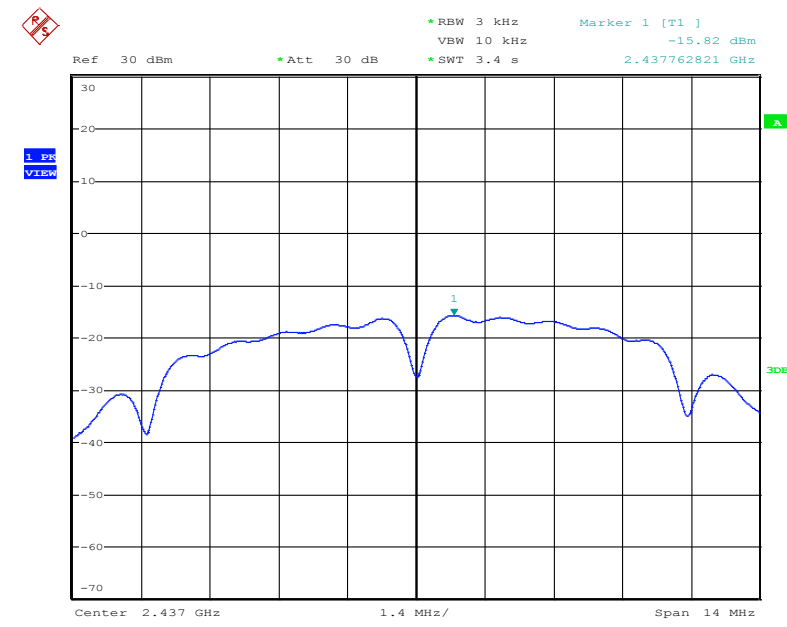
EUT		8 inch Windows OS Tablet		Model Name		DT080-MS-W10	
Mode		802.11n HT40		Humidity		56% RH	
Temperature		24 deg. C,					
Channel	Channel Frequency (MHz)	Final RF Power Level in (dBm)		Maximum Limit (dBm)		Pass/ Fail	
13.5Mbps							
3	2422	-19.76		8		Pass	
6	2437	-17.36		8		Pass	
9	2452	-18.96		8		Pass	

Remark: All of the modes have been investigated, and only worst mode is presented in this report.

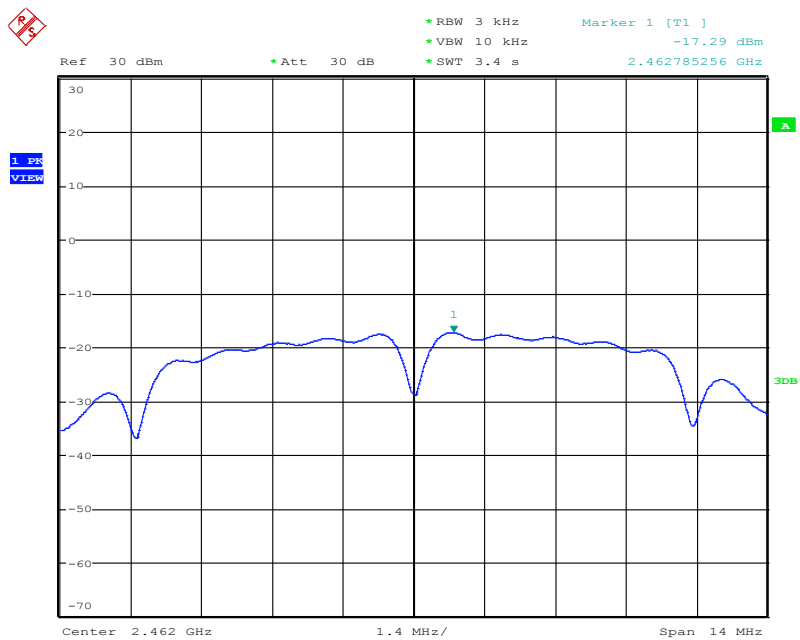
802.11b at 1Mbps of CH1



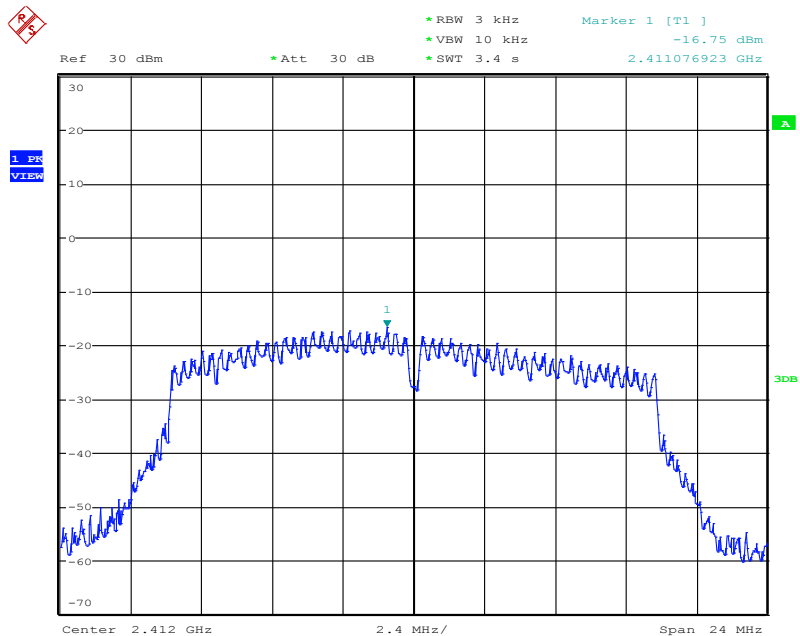
802.11b at 1Mbps at CH6



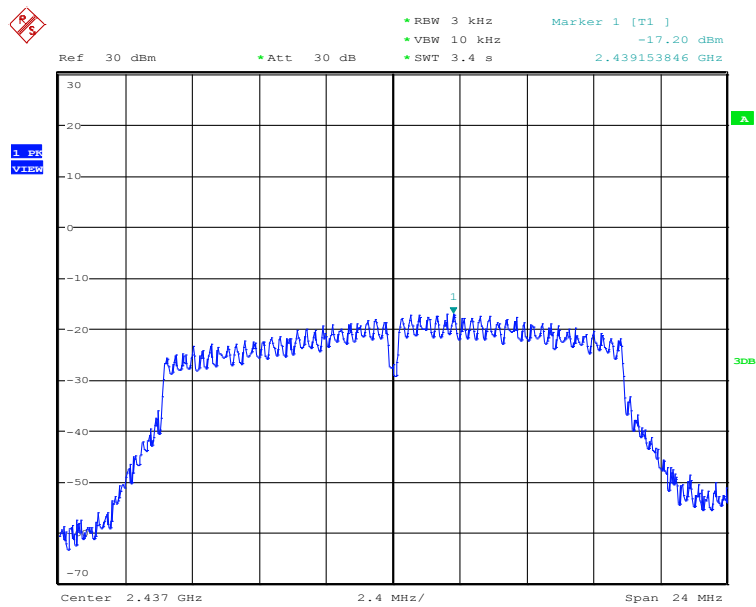
802.11b at 1Mbps of CH11



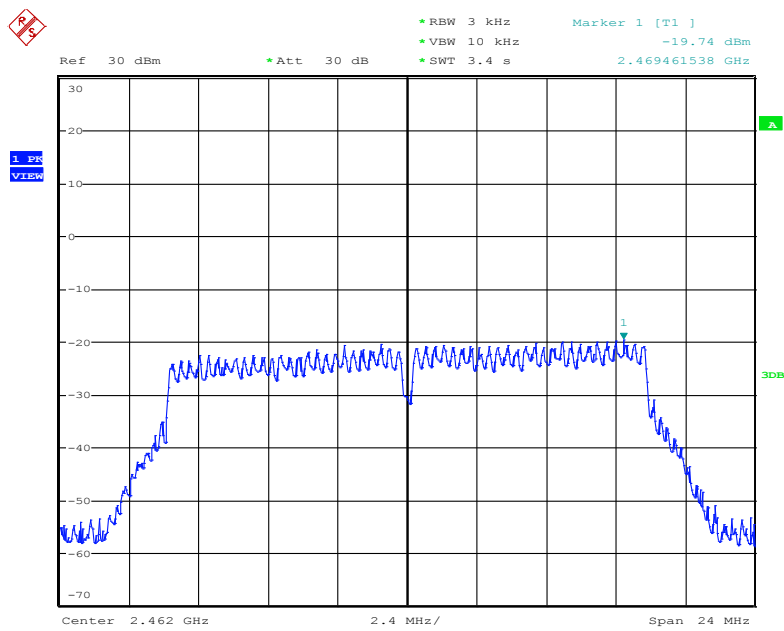
802.11g at 6Mbps of CH1



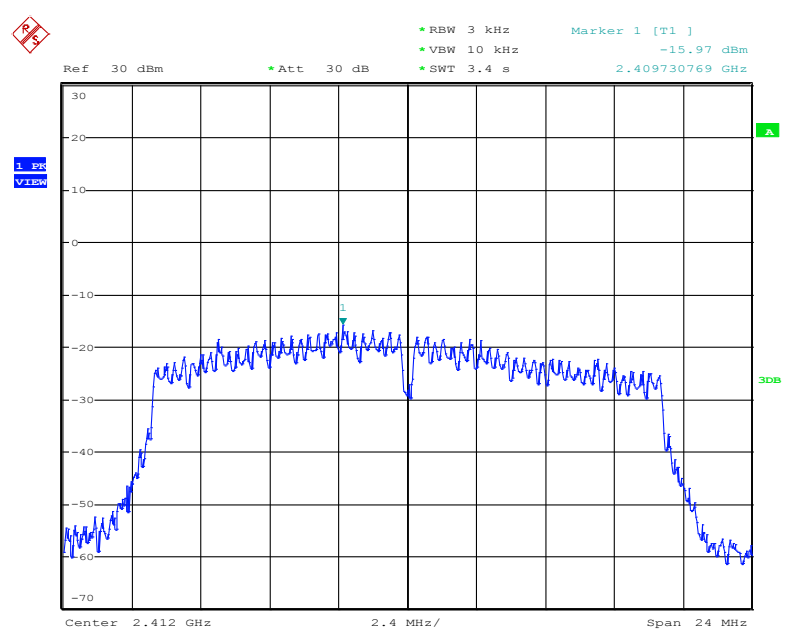
802.11g at 6Mbps of CH6



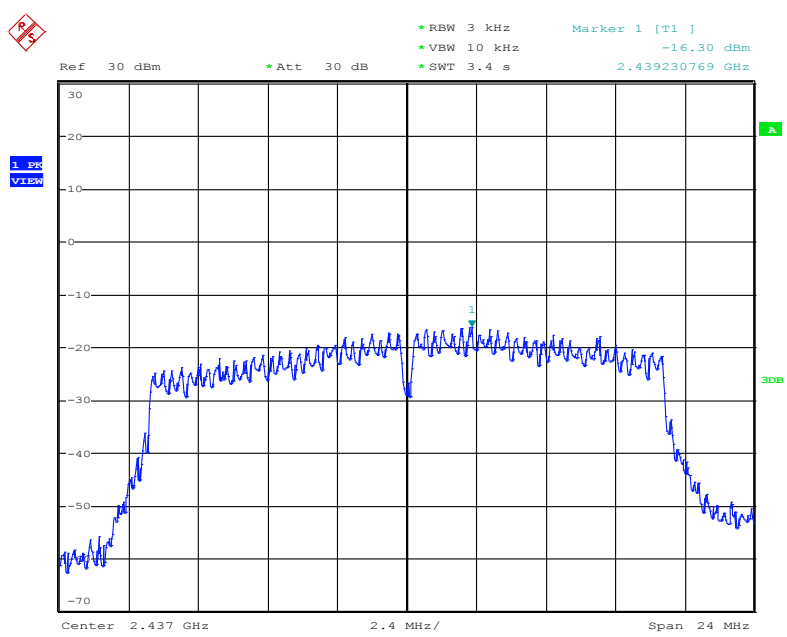
802.11g at 6Mbps of CH11



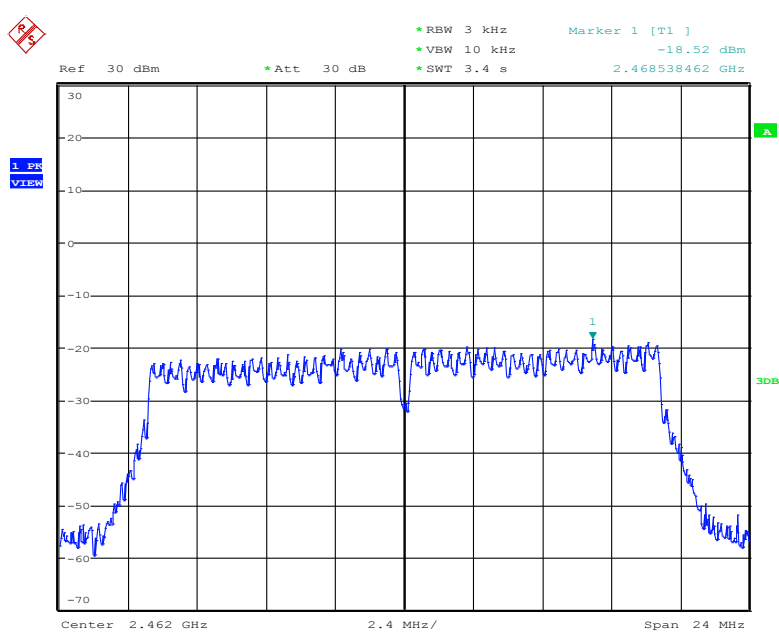
802.11n HT20 at 6.5Mbps of CH1



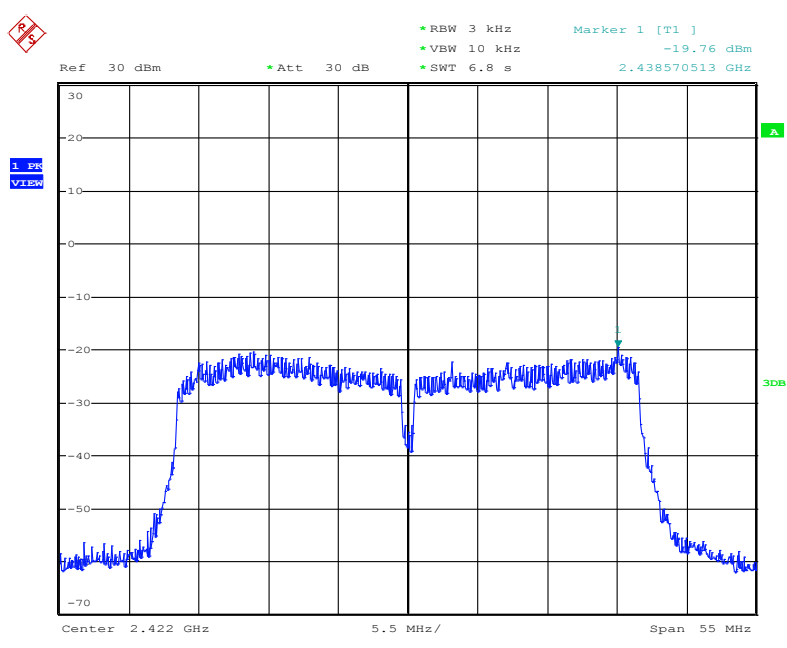
802.11n HT20 at 6.5Mbps of CH6



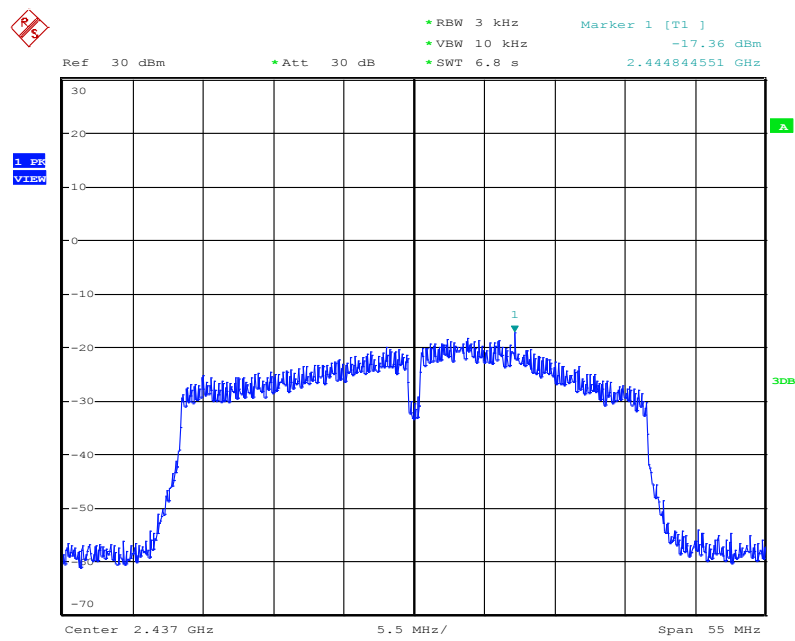
802.11n HT20 at 6.5Mbps of CH11



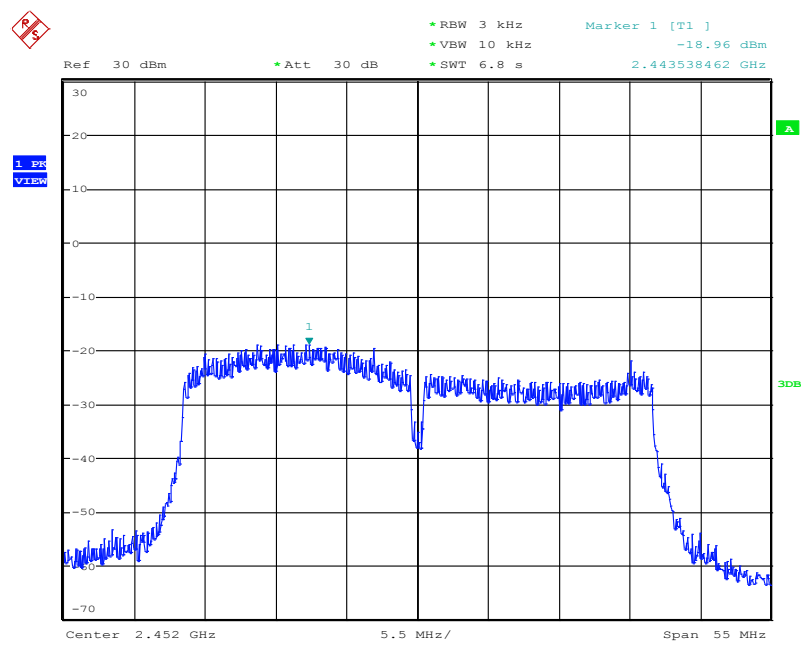
802.11n HT40 at 13.5Mbps of CH3



802.11n HT40 at 13.5Mbps of CH6

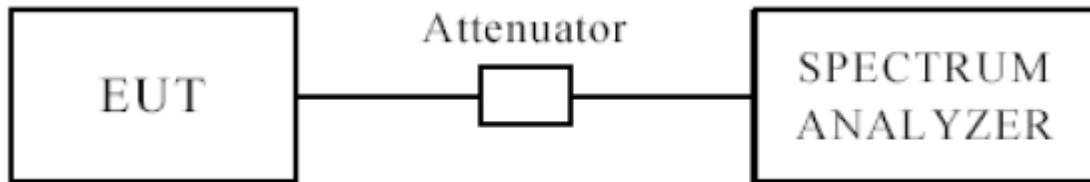


802.11n HT40 at 13.5Mbps of CH9



10. OUT OF BAND MEASUREMENT

10.1 TEST SETUP FOR BAND EDGE



The restricted band requirement based on radiated emission test; please see the clause 6 for the test setup

10.2 LIMITS OF OUT OF BAND EMISSIONS MEASUREMENT

1. Below -20dB of the highest emission level of operating band (in 100kHz Resolution Bandwidth).
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

10.3 TEST PROCEDURE

For signals in the restricted bands above and below the 2.4-2.483GHz allocated band a measurement was made of radiated emission test. (Peak values with RBW=VBW=1MHz and PK detector. AV value with RBW=1MHz,VBW=10Hz and PK detector)

For bandage test, the spectrum set as follows: RBW=100 kHz, VBW=100 kHz. A conducted measurement used

10.4 TEST RESULT

Please see next pages

Note: This is a handheld device. The radiated emissions should be tested under 3-axes position (Lying, Stand), After pre-test. It was found that the worse radiated emission was get at the lying position.

Radiated measurement:**802.11b**

Indicated		result (PK/AV)	Antenna Polar (H/V)	Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dBμV/m)			Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel (2412MHz)									
2390	29.31	AV	V	30.3	4.1	33.1	30.61	54	23.39
2390	29.81	AV	H	30.3	4.1	33.1	31.11	54	22.89
2390	41.64	PK	V	30.3	4.1	33.1	42.94	74	31.06
2390	40.95	PK	H	30.3	4.1	33.1	42.25	74	31.75
High Channel (2462MHz)									
2483.5	30.47	AV	V	31	4.4	32.7	33.17	54	20.83
2483.5	29.98	AV	H	31	4.4	32.7	32.68	54	21.32
2483.5	41.83	PK	V	31	4.4	32.7	44.53	74	29.47
2483.5	41.03	PK	H	31	4.4	32.7	43.73	74	30.27

802.11g

Indicated		result (PK/AV)	Antenna Polar (H/V)	Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dBμV/m)			Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel (2412MHz)									
2390	34.11	AV	V	30.3	4.1	33.1	35.41	54	18.59
2390	34.41	AV	H	30.3	4.1	33.1	35.71	54	18.29
2390	51.44	PK	V	30.3	4.1	33.1	52.74	74	21.26
2390	49.86	PK	H	30.3	4.1	33.1	51.16	74	22.84
High Channel (2462MHz)									
2483.5	30.12	AV	V	31	4.4	32.7	32.82	54	21.18
2483.5	30.82	AV	H	31	4.4	32.7	33.52	54	20.48
2483.5	39.90	PK	V	31	4.4	32.7	42.60	74	31.40
2483.5	41.95	PK	H	31	4.4	32.7	44.65	74	29.35

Note: The BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

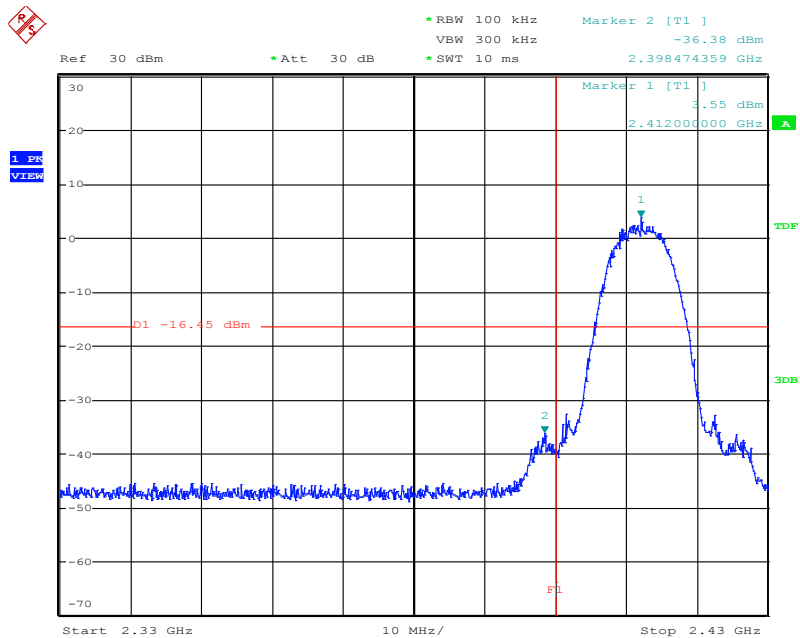
802.11n HT20

Indicated		result (PK/AV)	Antenna Polar (H/V)	Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dBμV/m)			Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel (2412MHz)									
2390	33.67	AV	V	30.3	4.1	33.1	34.97	54	19.03
2390	33.78	AV	H	30.3	4.1	33.1	35.08	54	18.92
2390	51.55	PK	V	30.3	4.1	33.1	52.85	74	21.15
2390	49.76	PK	H	30.3	4.1	33.1	51.06	74	22.94
High Channel (2462MHz)									
2483.5	31.39	AV	V	31	4.4	32.7	34.09	54	19.91
2483.5	30.97	AV	H	31	4.4	32.7	33.67	54	20.33
2483.5	39.46	PK	V	31	4.4	32.7	42.16	74	31.84
2483.5	39.36	PK	H	31	4.4	32.7	42.06	74	31.94

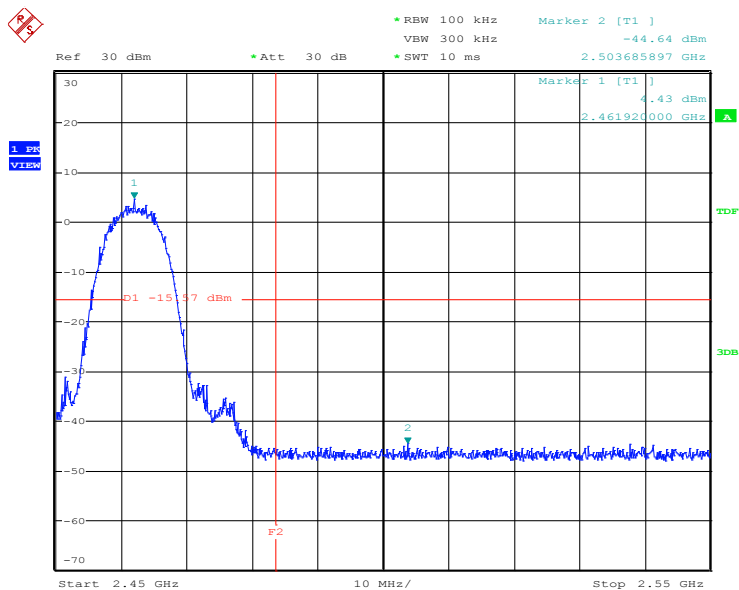
802.11n HT40

Indicated		result (PK/AV)	Antenna Polar (H/V)	Correction Factor			FCC Part 15.247		
Frequency (MHz)	Receiver Reading (dBμV/m)			Ant. Factor (dB/m)	Cable Loss (dB)	Pre-Amp. Gain (dB)	Cord. Amp. (dBμV/m)	Limit (dBμV/m)	Margin (dB)
Low Channel (2422MHz)									
2390	36.77	AV	V	30.3	4.1	33.1	38.07	54	15.93
2390	38.10	AV	H	30.3	4.1	33.1	39.40	54	14.60
2390	52.84	PK	V	30.3	4.1	33.1	54.14	74	19.86
2390	55.24	PK	H	30.3	4.1	33.1	56.54	74	17.46
High Channel (2452MHz)									
2483.5	33.82	AV	V	31	4.4	32.7	36.52	54	17.48
2483.5	31.80	AV	H	31	4.4	32.7	34.50	54	19.50
2483.5	46.17	PK	V	31	4.4	32.7	48.87	74	25.13
2483.5	45.81	PK	H	31	4.4	32.7	48.51	74	25.49

Note: The BAND EDGE RESTRICTED BANDS emission is too low at least 20dB to the Fundamental.

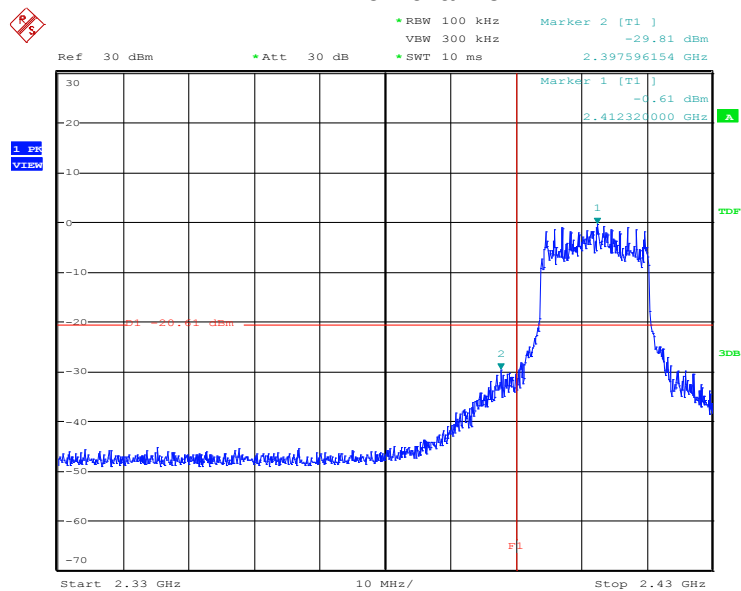
Band Edges Measurement:**802.11b:****Low channel**

Date: 26.JUN.2017 20:29:09

High channel

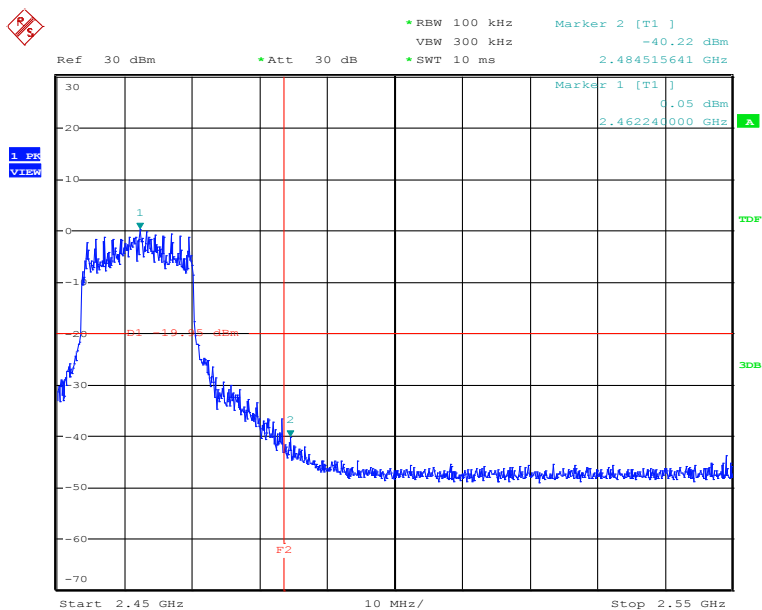
802.11g:

Low channel



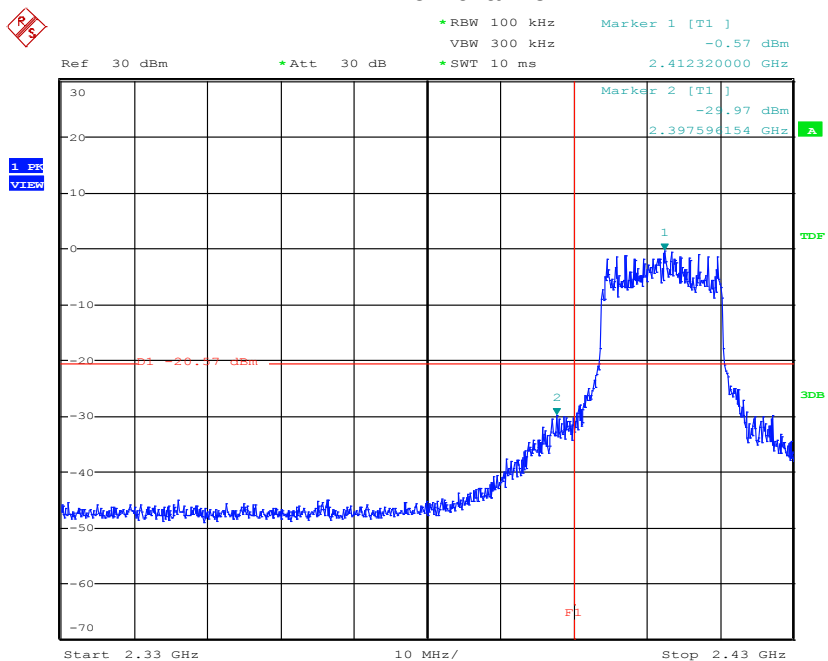
Date: 26.JUN.2017 20:39:31

High channel

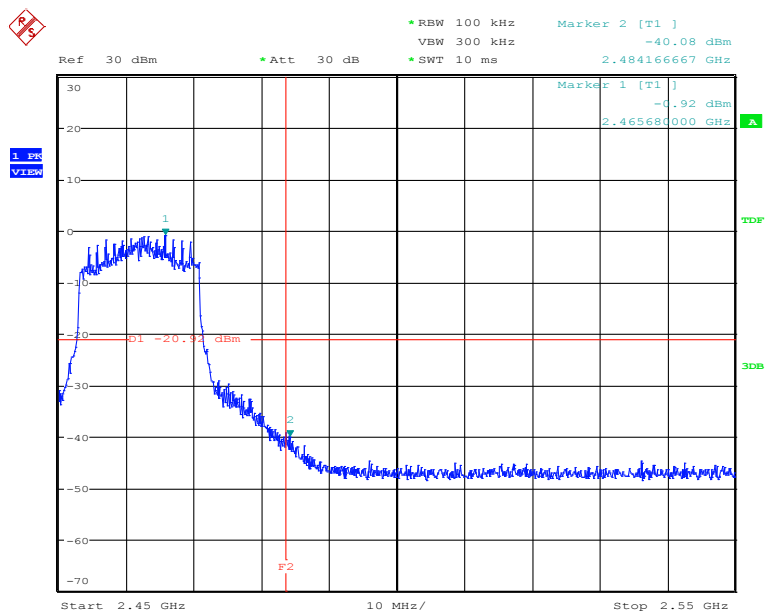


802.11n HT20:

Low channel

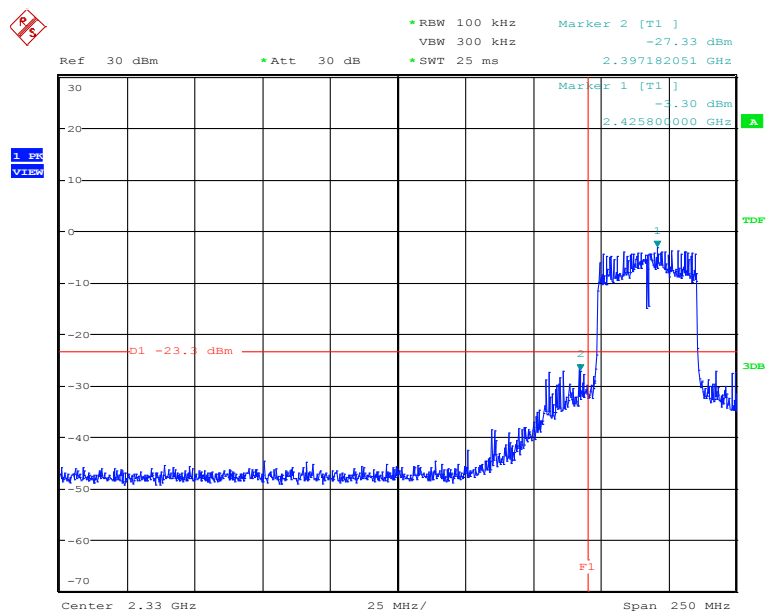


High channel

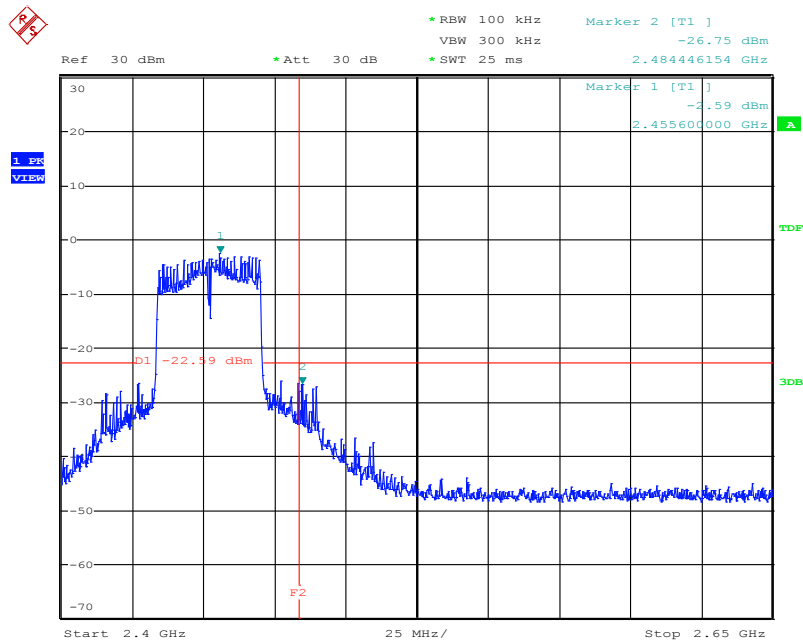


802.11n HT40:

Low channel

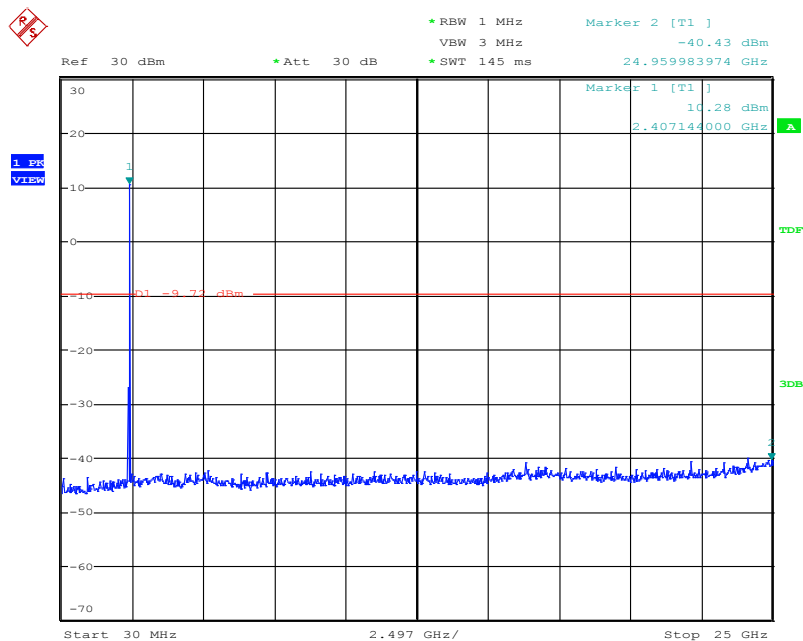


High channel

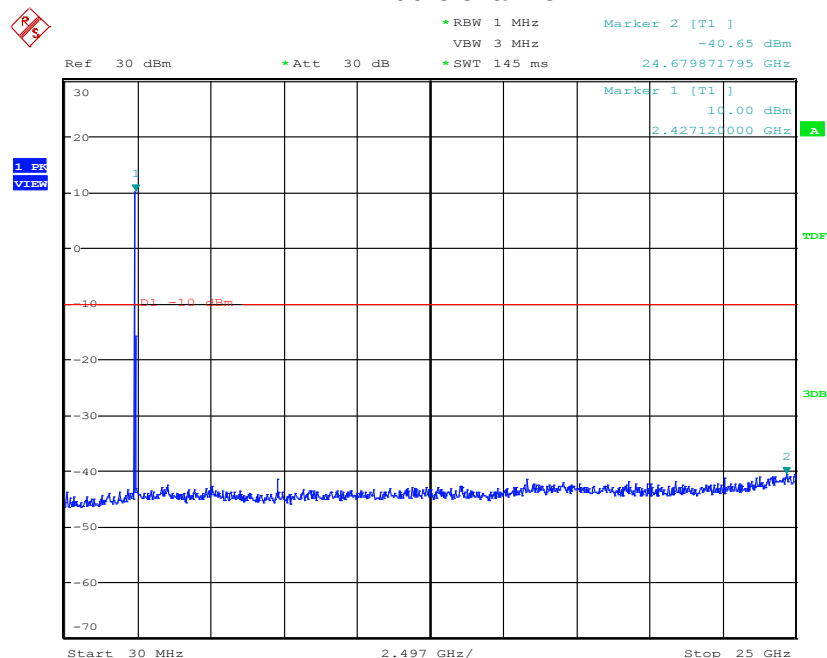


Conducted measurement:

802.11b:

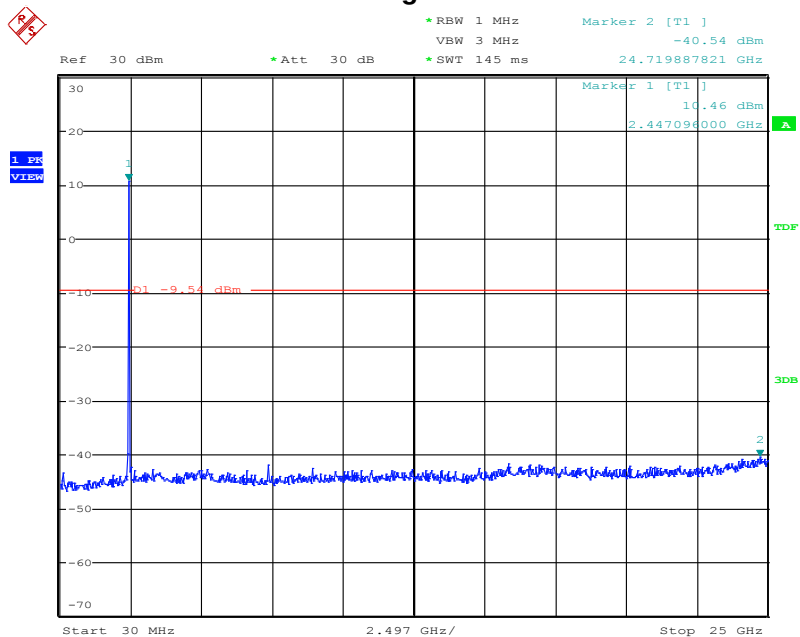
Low channel

Date: 26.JUN.2017 21:26:39

Middle channel

Date: 26.JUN.2017 21:21:54

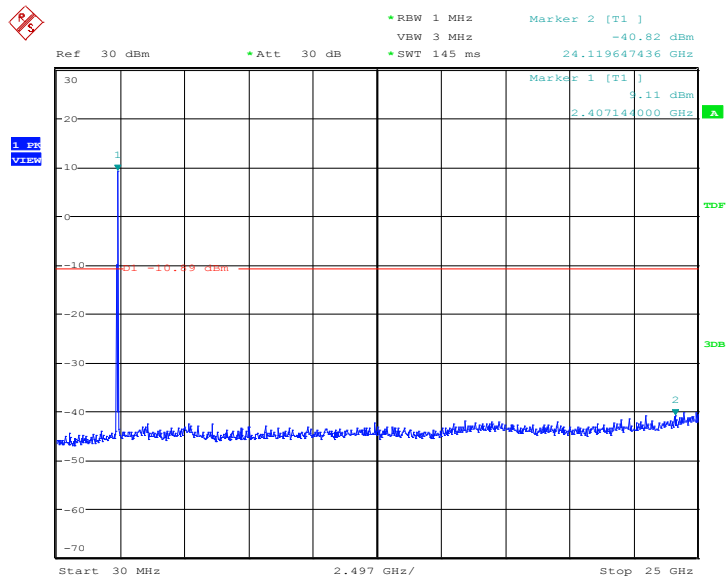
High channel



Date: 26.JUN.2017 21:24:12

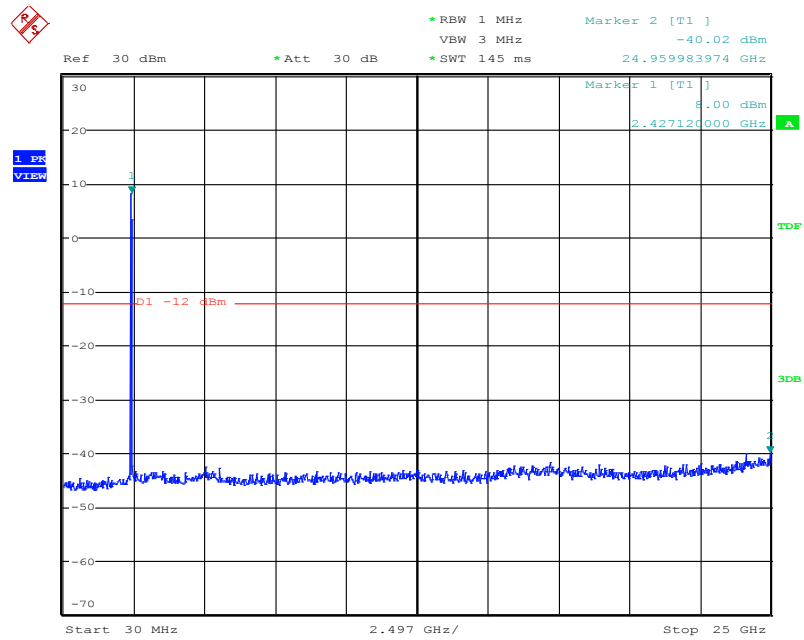
802.11g:

Low channel



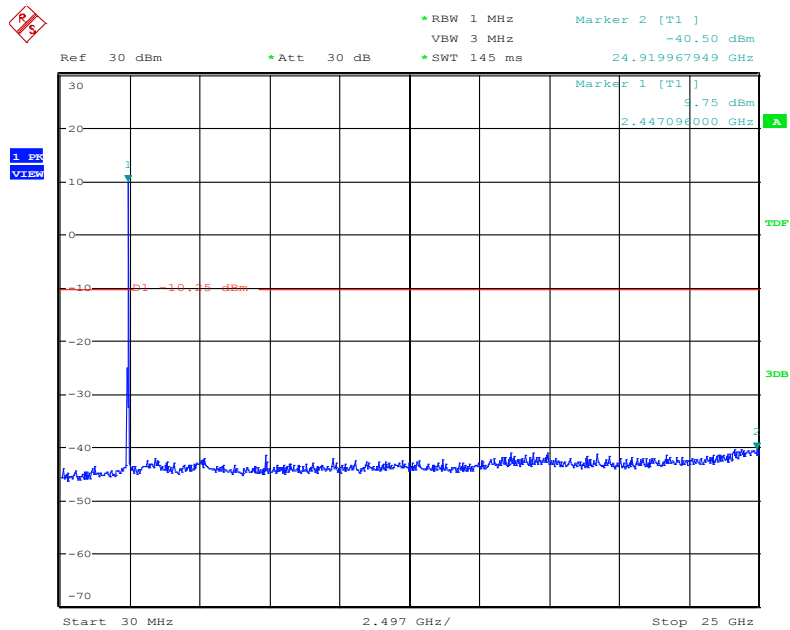
Date: 26.JUN.2017 21:13:13

Middle channel



Date: 26.JUN.2017 21:19:07

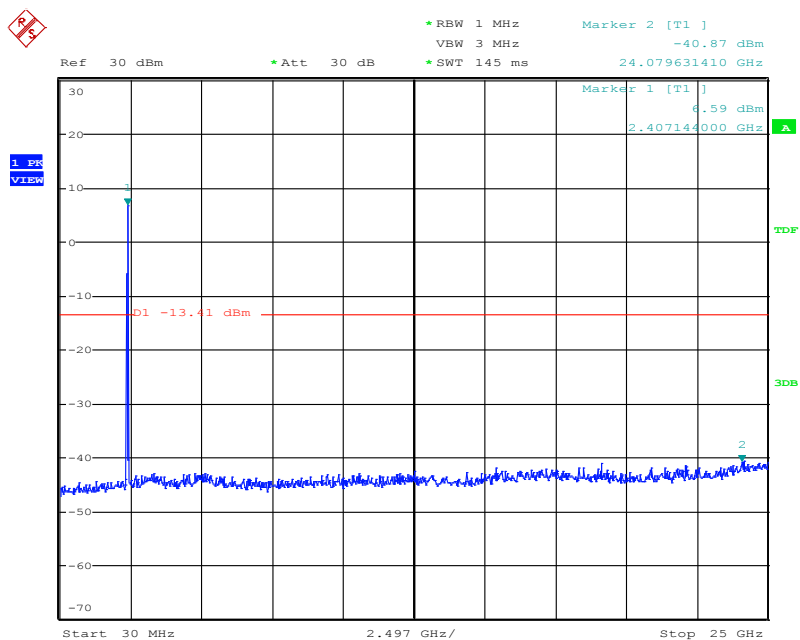
High channel



Date: 26.JUN.2017 21:17:39

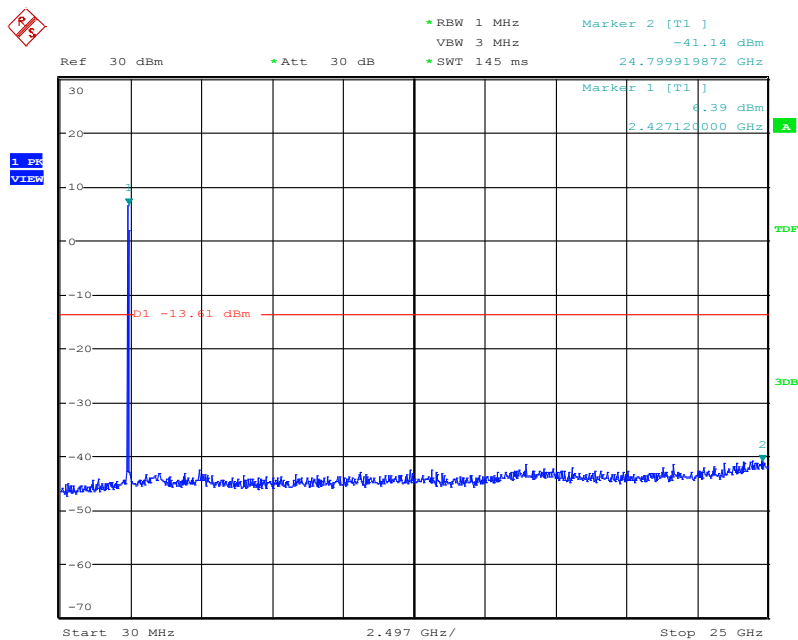
802.11n HT20:

Low channel

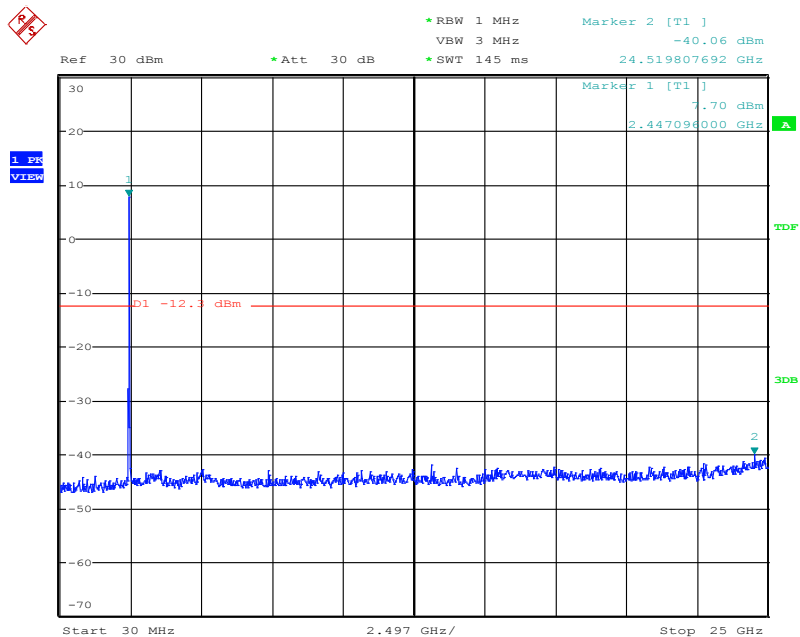


Date: 26.JUN.2017 21:07:36

Middle channel



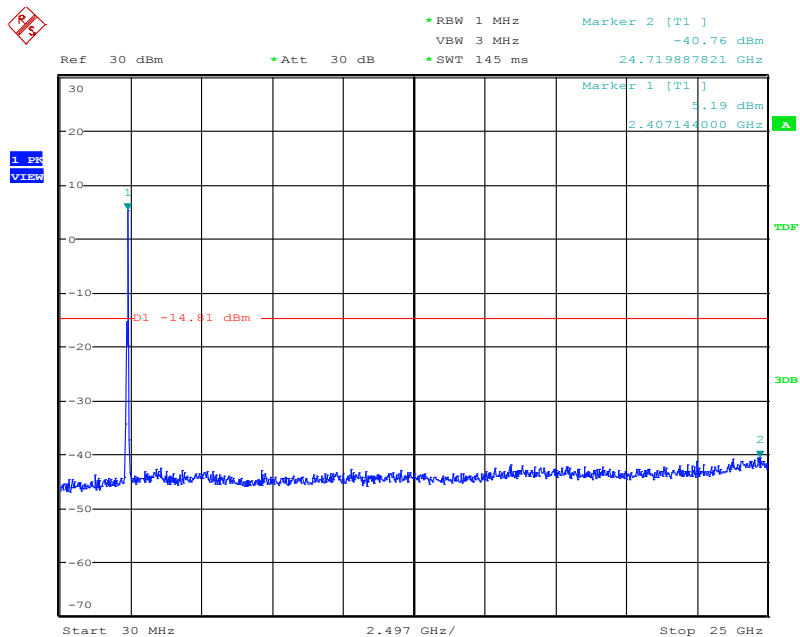
High channel



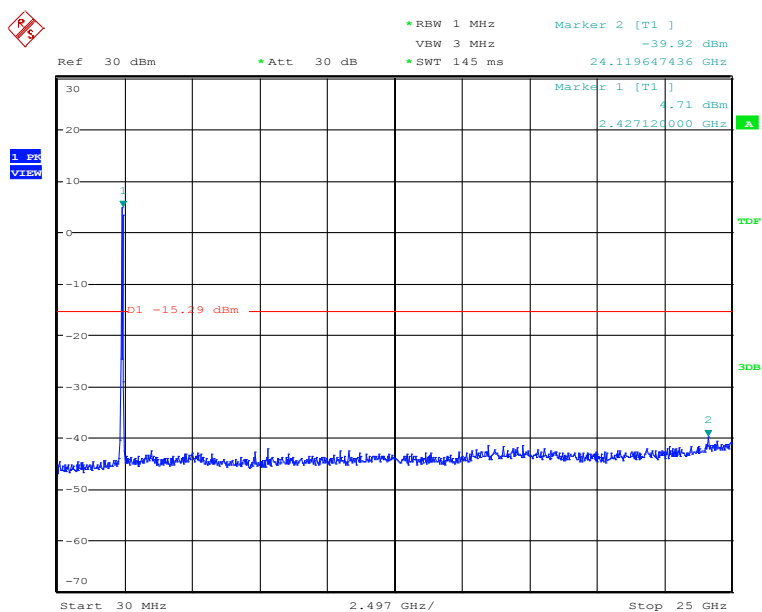
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802.11n HT40:

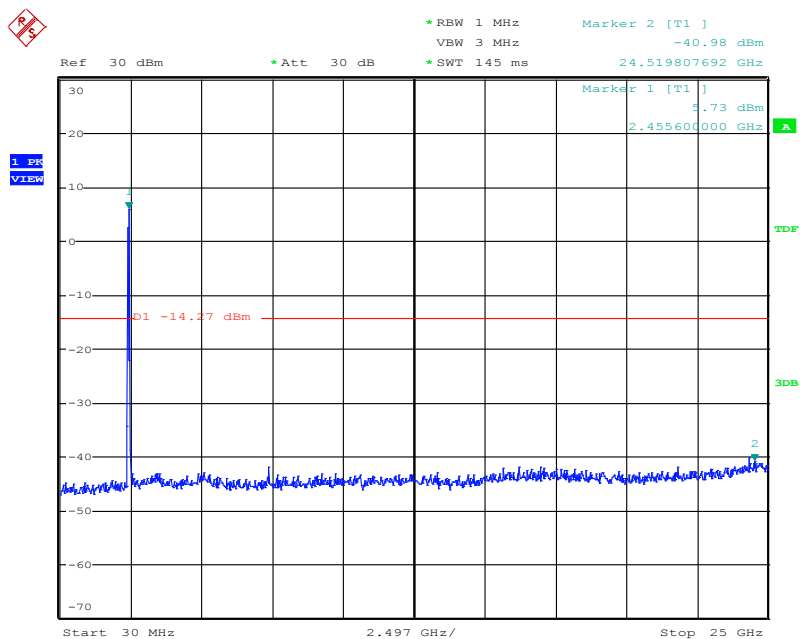
Low channel



Middle channel



High channel



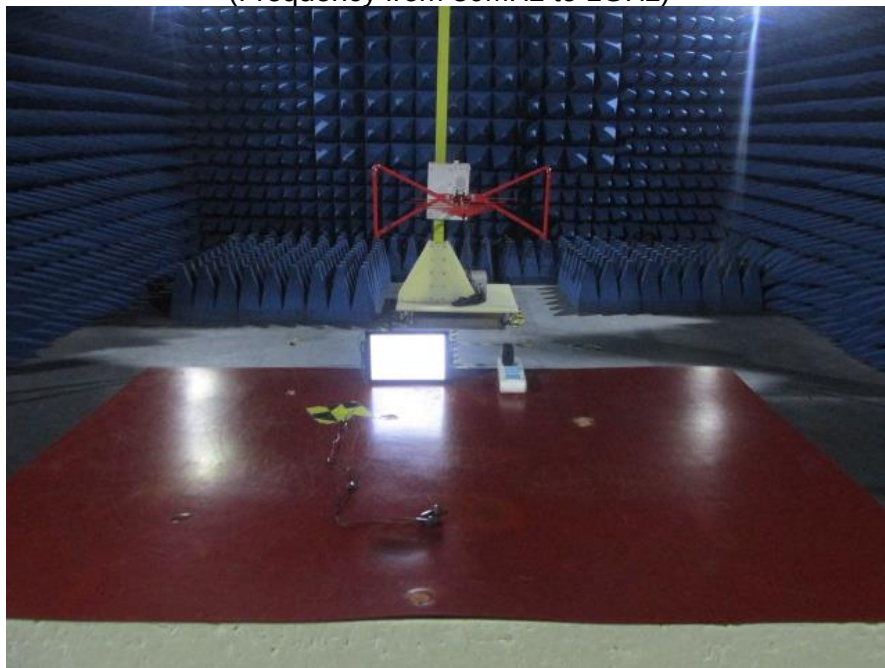
Date: 26.JUN.2017 20:57:58

11. EUT TEST PHOTO

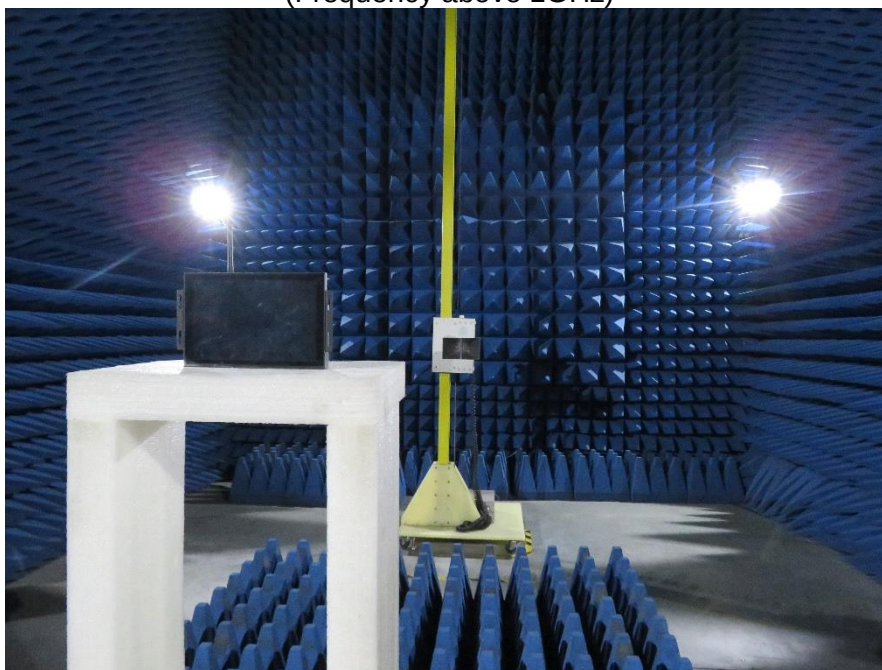
CONDUCTED EMISSION TEST



RADIATED EMISSION TEST
(Frequency from 30MHz to 1GHz)



RADIATED EMISSION TEST
(Frequency above 1GHz)



12. PHOTOGRAPHS OF EUT

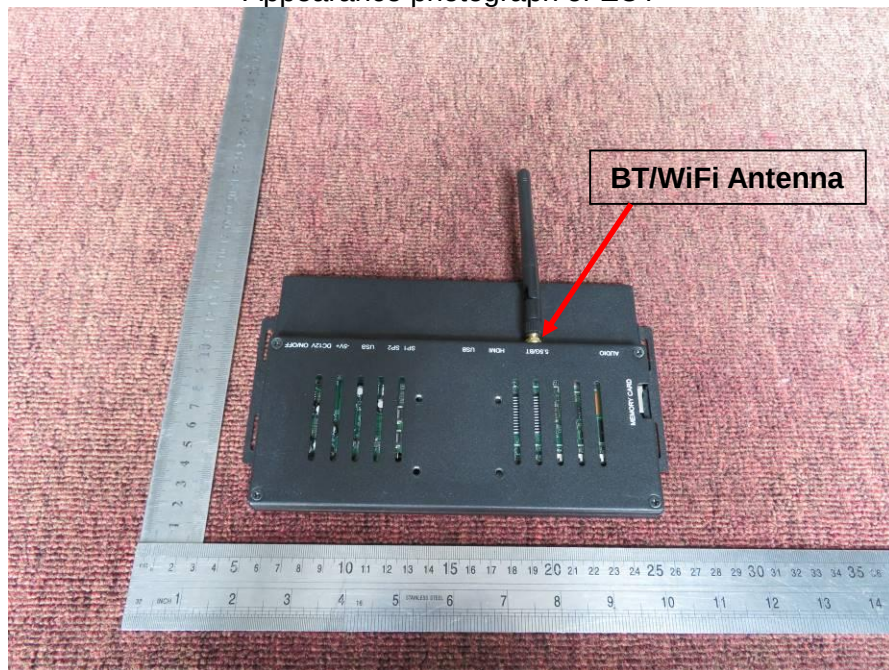
Appearance photograph of EUT



Appearance photograph of EUT



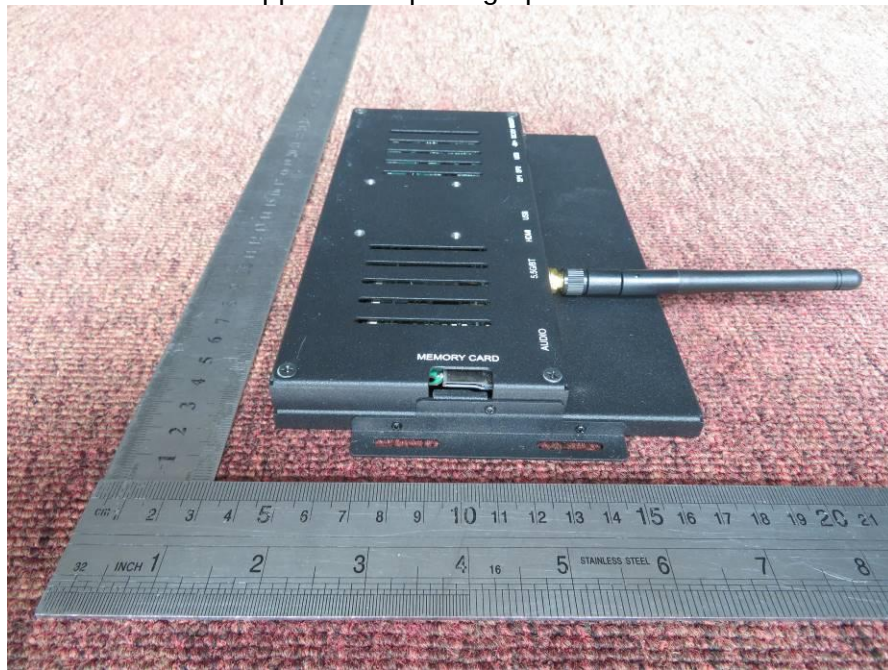
Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



Appearance photograph of EUT



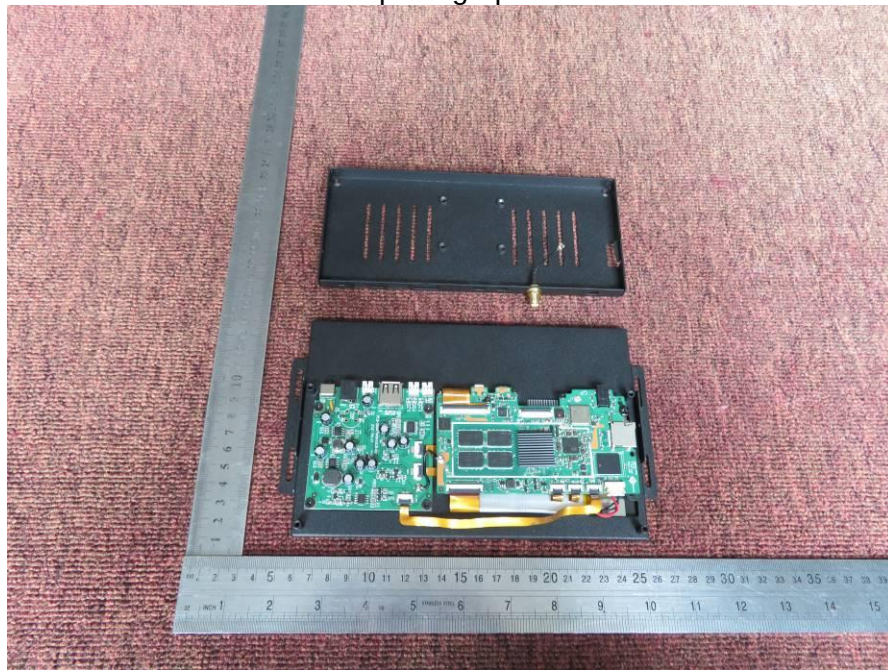
Appearance photograph of EUT



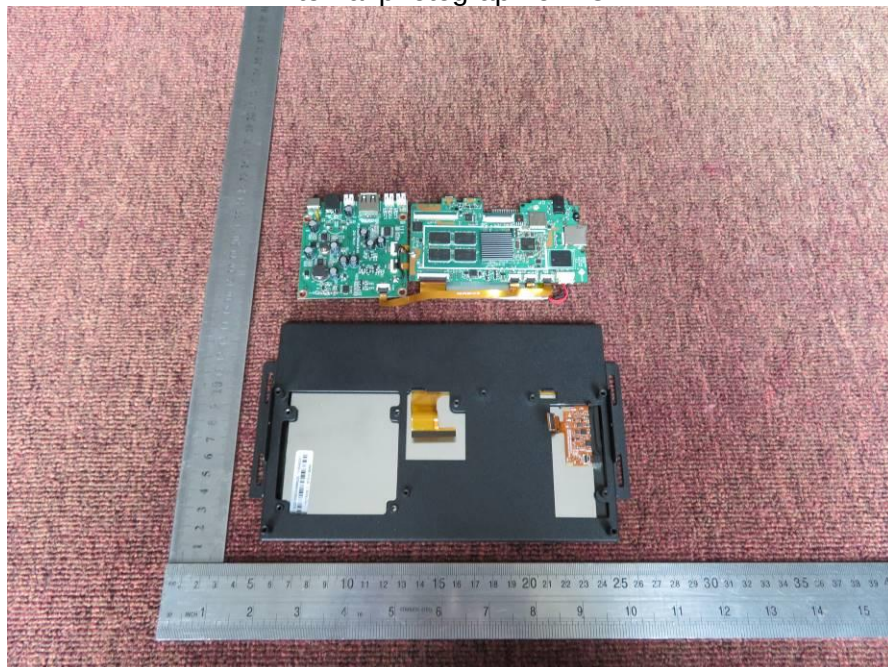
Appearance photograph of EUT



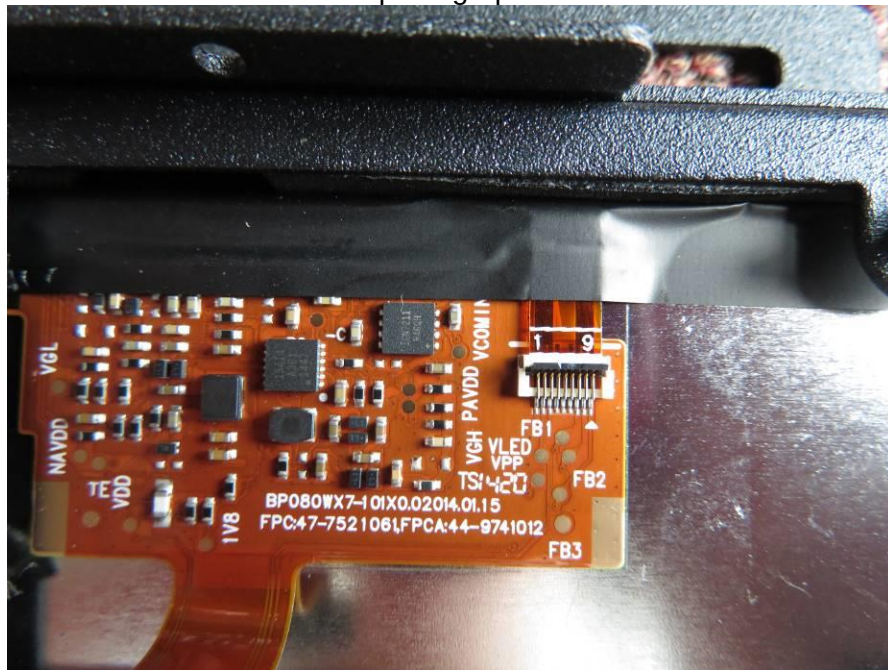
Internal photograph of EUT



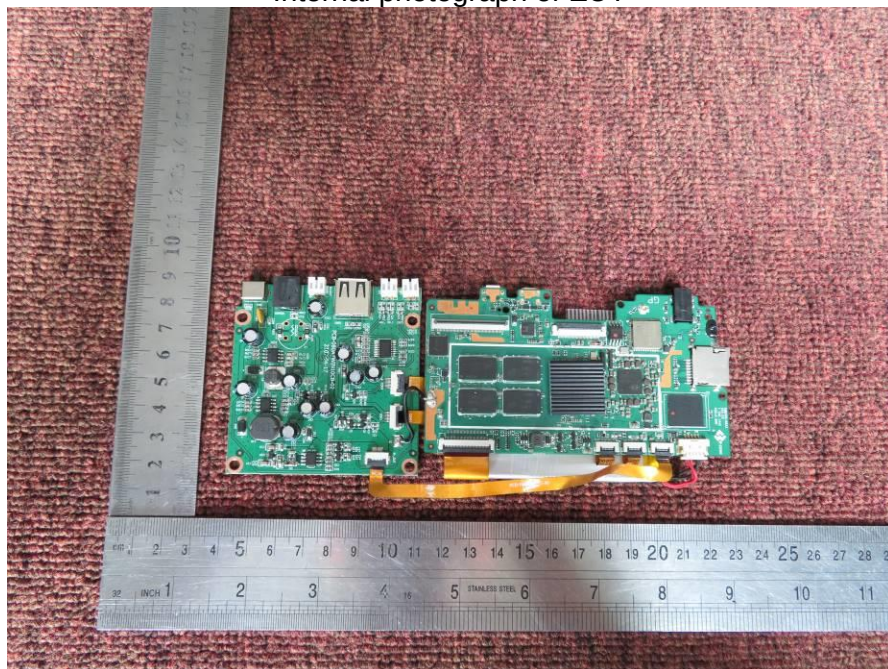
Internal photograph of EUT



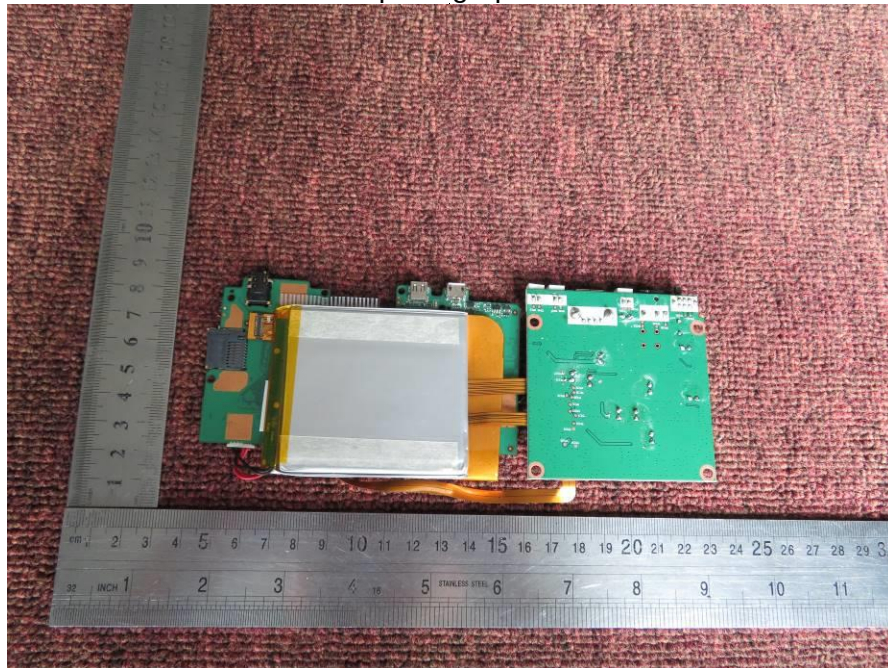
Internal photograph of EUT



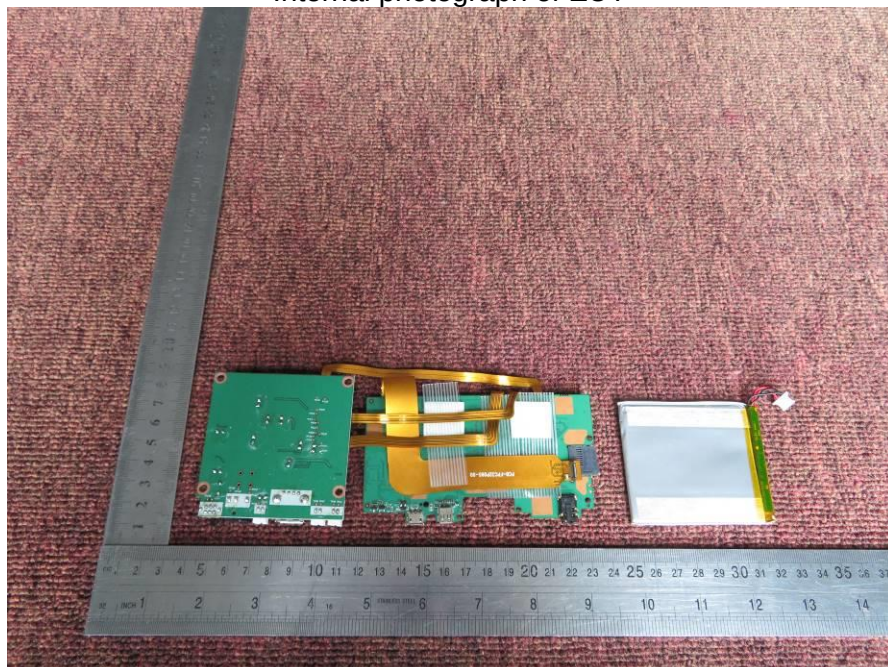
Internal photograph of EUT



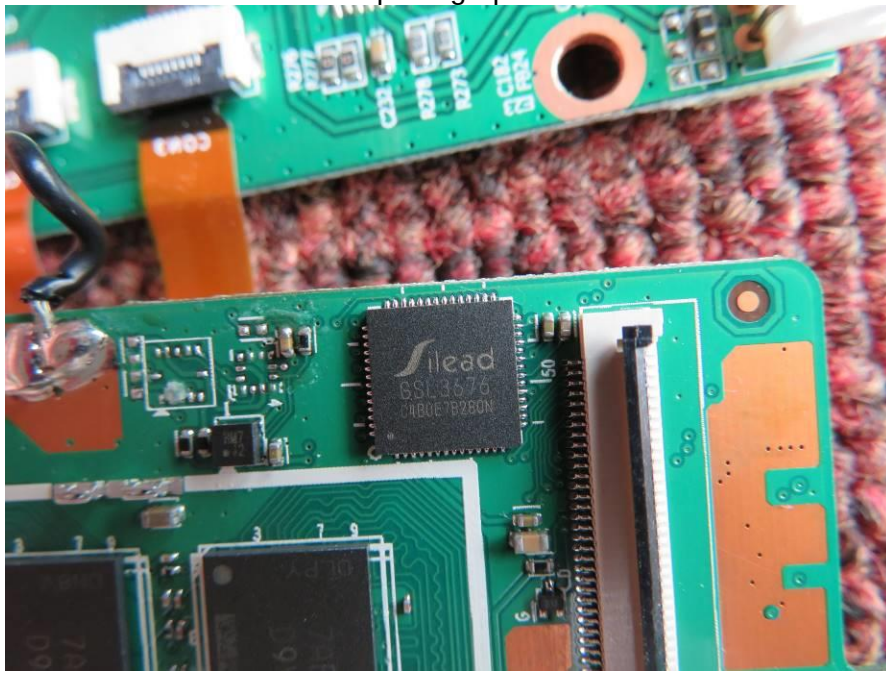
Internal photograph of EUT



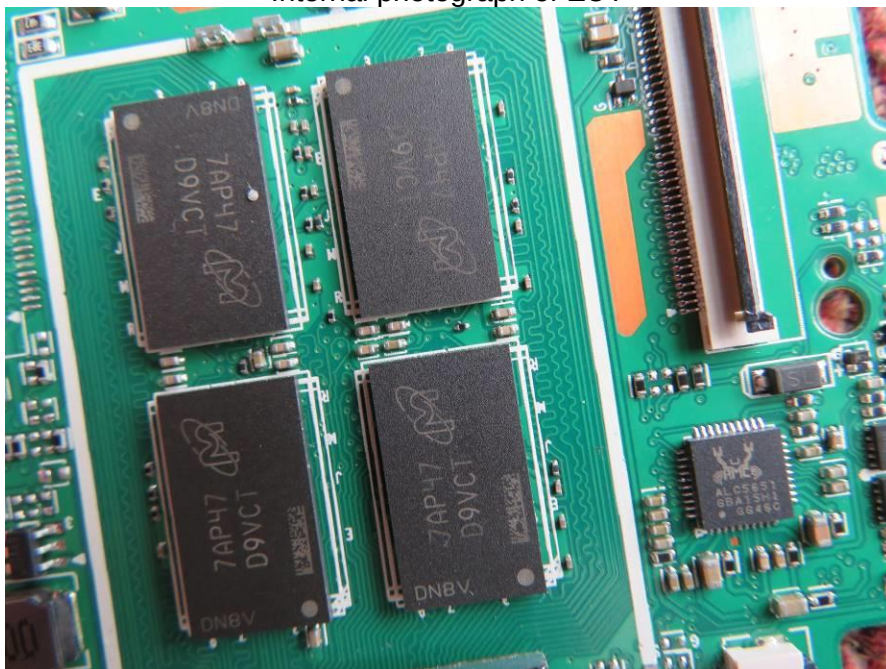
Internal photograph of EUT



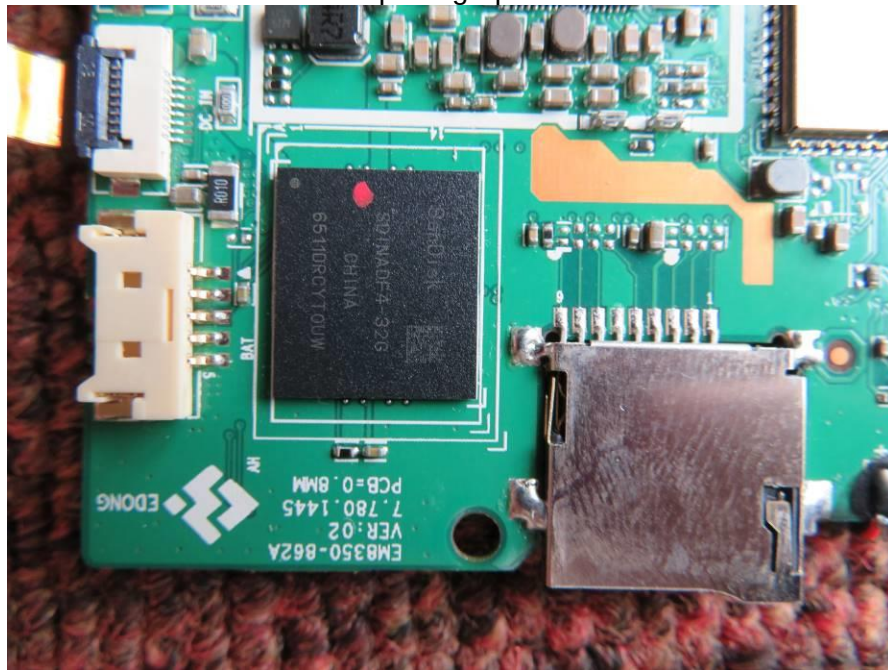
Internal photograph of EUT



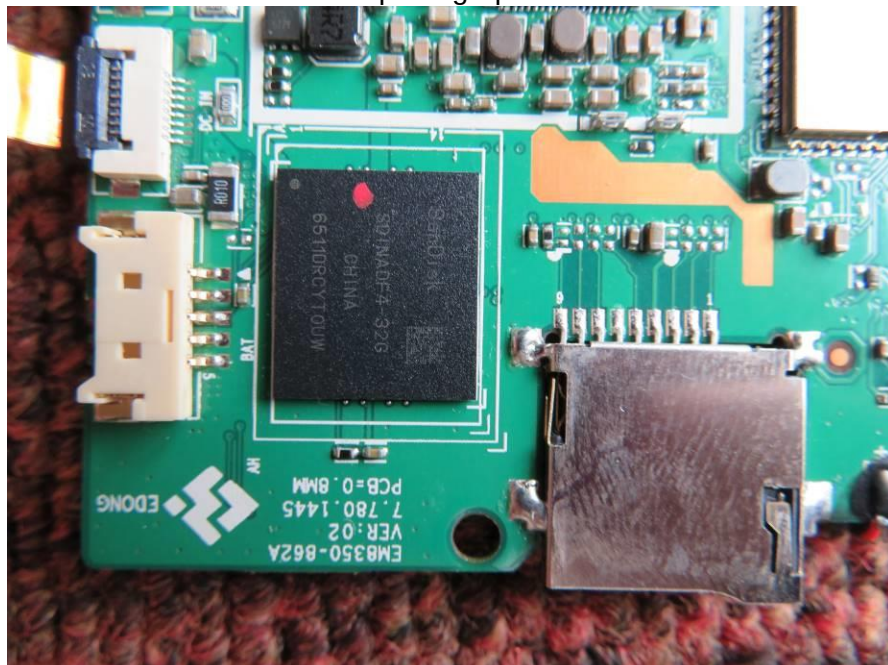
Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



Internal photograph of EUT



---END OF REPORT---