FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Jiangmen Dascom Computer Peripherals Co., Ltd

portable receipt and label printer

Model Number: DP-330

Additional Model: DP-330L, DP-335, DP-335L

FCC ID: Z7ODP330L

Prepared for:	Prepared for: Jiangmen Dascom Computer Peripherals Co., Ltd			
	No 399, Jin Xing Road, Jiang Hai District, Jiangmen City			
	Guang Dong Province China			
Prepared By:	EST Technology Co., Ltd.			
	San Tun Management Zone, Houjie District, Dongguan, China			
Tel: 86-769-83081888-808				

Report Number:	ESTE-R1708088
Date of Test:	July 02~09, 2017
Date of Report:	July 10, 2017



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EST Technology Co., Ltd.

	Lor reciniolog	J = 31, = 11.1			
Applicant: Address:	Jiangmen Dascom Computer I No 399, Jin Xing Road, Jiang Guang Dong Province China				
Manufacturer Address:	Jiangmen Dascom Computer Peripherals Co., Ltd No 399, Jin Xing Road, Jiang Hai District, Jiangmen City Guang Dong Province China				
E.U.T:	portable receipt and label prin	iter			
Model Number:	DP-330				
Additional Model:	DP-330L, DP-335, DP-335L (They are identical except mo	del name only.)			
Power Supply:	DC 11.1V From Battery DC 19V From Adapter Input A	AC 100-240V, 5	60/60Hz		
Test Voltage:	DC 19V From Adapter Input A	AC 120V/60Hz	and AC 240V/60Hz		
Trade Name:	Tally/DASCOM,DASCOM	Serial No.:			
Date of Receipt:	July 02, 2017	Date of Test:	July 02~09, 2017		
Test Specification:	FCC Rules and Regulations Pa ANSI C63.10:2013	art 15 Subpart C	C:2016		
Test Result:	The device described above is tested by EST Technology Co., Ltd The measurement results were contained in this test report and EST Technology Co., Ltd. was assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT to be technically compliance with the FCC Rules and Regulations Part 15 Subpart C requirements.				
	This report applies to above to part without written approval		y and shall not be reproduced in ogy Co., Ltd.		
			Date: July 10, 2017		
Prepared by:	Reviewed by:		Approved by:		
Amy / Assistant	Tony / Engineer	_	Iceman Hu / Manager		
Other Aspects: None.					
Abbreviations: OK/P=pass	ed fail/F=failed n.a/N=not c	applicable E.U.	.T=equipment under tested		
	a single evaluation of one sample of a out written approval of EST Technolog		oducts ,It is not permitted to be		



1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	portable receipt and label printer
Model Number	:	DP-330, DP-330L, DP-335, DP-335L
		(They are identical except model name only.)
FCC ID	:	Z7ODP330L
Modulation	:	IEEE 802.11b mode: DSSS(CCK,QPSK, BPSK)
		IEEE 802.11g mode: OFDM (BPSK/QPSK/16QAM/64QAM)
		IEEE 802.11n HT20 mode: OFDM (BPSK/QPSK/16QAM/64QAM)
		IEEE 802.11n HT40 mode: OFDM (BPSK/QPSK/16QAM/64QAM)
Operation Frequency	:	IEEE 802.11b/g: 2412 ~ 2462 MHz
		IEEE 802.11n HT20 : 2412 ~ 2462 MHz
		IEEE 802.11n HT40: 2422 ~ 2452 MHz
		IEEE 000 111 0410 0460 MH 11 CL 1
		IEEE 802.11b 2412 ~ 2462 MHz: 11 Channels IEEE 802.11g 2412 ~ 2462 MHz: 11 Channels
Number of channel	:	IEEE 802.11g 2412 ~ 2402 MHz. 11 Channels
		IEEE 802.11n HT20 2422 ~ 2452 MHz: 7 Channels
Antenna	:	Internal antenna, 0.5 dBi Gain
Sample Type	:	Prototype production



2. SUMMARY OF TEST

2.1. Summary of test result

Standard	Results
FCC Part 15: 15.207	DACC
ANSI C63.10:2013	PASS
FCC Part 15: 15.209	
ANSI C63.10:2013	PASS
KDB 558074	
FCC Part 15: 15.247	
ANSI C63.10:2013	PASS
KDB 558074	
FCC Part 15: 15.247	
ANSI C63.10:2013	PASS
KDB 558074	
FCC Part 15: 15.247	
ANSI C63.10:2013	PASS
KDB 558074	
FCC Part 15: 15.247	
ANSI C63.10:2013	PASS
KDB 558074	
FCC Part 15: 15.247	
ANSI C63.10:2013	PASS
KDB 558074	
FCC Part 15: 15.203	PASS
	FCC Part 15: 15.207 ANSI C63.10:2013 FCC Part 15: 15.209 ANSI C63.10:2013 KDB 558074 FCC Part 15: 15.247 ANSI C63.10:2013 KDB 558074

Note: KDB 558074 D01 DTS Meas Guidance v04



2.2. Test Facilities

EMC Lab	•	Certificated by CNAS, CHINA Registration No.: L5288 Date of registration: November 13, 2014 Certificated by FCC, USA Registration No.: 989591 Date of registration: November 15, 2016 Certificated by Industry Canada Registration No.: 9405A-1 Date of registration: December 30, 2015 Certificated by VCCI, Japan Registration No.: R-3663 & C-4103 Date of registration: July 25, 2014 Certificated by TUV Rheinland, Germany Registration No.: UA 50195514 0001 Date of registration: February 07, 2015 Certificated by TUV/PS, Shenzhen Registration No.: SCN1017 Date of registration: January 27, 2011 Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L1-18 Date of registration: April 28, 2011 Certificated by Siemic, Inc. Registration No.: SLCN021 Date of registration: November 8, 2011 Certificated by Nemko, Hong Kong Registration No.: 175193 Date of registration: May 4, 2011
Name of Firm	•	EST Technology Co., Ltd.
Site Location	:	San Tun Management Zone, Houjie Town, Dongguan, Guangdong, China



2.3. Assistant equipment used for test

2.3.1. N/A

2.4. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 or 1.5 meter high above ground. EUT was be set into Wi-Fi test mode by software before test.



(EUT: portable receipt and label printer)



2.5. Test mode

A special test software was used to control EUT work in Continuous TX mode, and select test channel, wireless mode and data rate.

Test mode	Lower	Center	Upper
	channel	channel	channel
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20	2412MHz	2437MHz	2462MHz
Transmitting			
IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20	2412MHz	2437MHz	2462MHz
Receiving			
IEEE 802.11n HT40 Transmitting	2422MHz	2437MHz	2452MHz
IEEE 802.11n HT40 Receiving	2422MHz	2437MHz	2452MHz

2.6. Channel List for wifi

IEEE 802.11b;IEEE 802.11g;IEEE 802.11n HT20								
Channel Frequency (MHz) Channel Frequency (MHz) Frequency (MHz)								
1	2412	6	2437	11	2462			
2	2417	7	2442					
3	2422	8	2447					
4	2427	9	2452					
5	2432	10	2457					
	IEEE 802.11n HT40							
Channel Frequency (MHz) Channel Frequency (MHz) Channel Frequency								
1	2422	4	2437	7	2452			
2	2427	5	2442					
3	2432	6	2447					

2.7. Test Equipment

2.7.1. For conducted emission test

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	832354	June 17,17	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	101260	June 17,17	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	101100	June 17,17	1 Year

2.7.2. For radiated emission test(9 kHz-30MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESCI	100435	June 17,17	1 Year
Loop Antenna	ETS-LINDGREN	6502	00071730	June 08,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

2.7.3. For radiated emissions test (30-1000MHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESVS10	100004	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4411B	MY50140697	June 17,17	1 Year
Bilog Antenna	Teseq	CBL 6111D	27090	June 08,17	1 Year
Signal Amplifier	Agilent	310N	187037	June 17,17	1 Year
RF Cable	MIYAZAKI	5D-2W	966 Chamber No.1	June 17,17	1 Year

2.7.4. For radiated emission test(above 1GHz)

Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Next Cal.
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120D1002	June 08,17	1 Year
Board-Band Horn	SCHWARZBECK	DDUA 0170	9170-497	June 08,17	1Year
Antenna	SCHWARZDECK	DDIIA 9170	9170-497	Julie 08,17	1 Teal
Signal Amplifier	SCHWARZBECK	BBV9718	9718-212	June 17,17	1 Year
Spectrum Analyzer	Agilent	E4408B	MY44211139	June 17,17	1 Year
Spectrum Analyzer	Rohde &Schwarz	FSV	103173	June 17,17	1 Year
RF Cable	Hubersuhner	RG 214/U	513423	June 17,17	1 Year



3 POWER LINE CONDUCTED EMISSION TEST

3.1. Limit

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	$dB(\mu V)$	$dB(\mu V)$			
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*			
500kHz ~ 5MHz	56	46			
5MHz ~ 30MHz	60	50			

Notes: 1. * Decreasing linearly with logarithm of frequency.

2. The lower limit shall apply at the transition frequencies.

3.2. Test Procedure

The EUT was placed on a non-metallic table, 10cm above the ground plane. The EUT Power connected to the power mains through a line impedance stabilization network (L.I.S.N. 1#). This provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs). The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.

The bandwidth of test receiver (R & S ESHS30) is set at 10kHz.

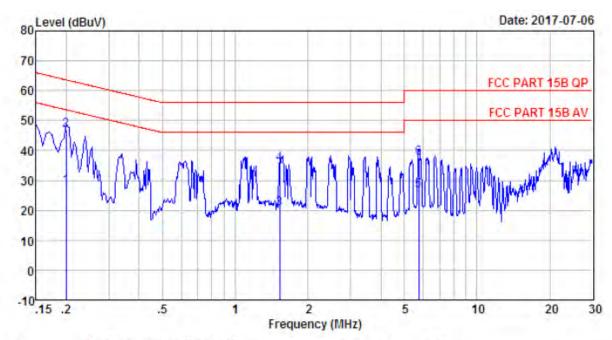
The frequency range from 150kHz to 30MHz is checked.

3.3. Test Result

PASS.



3.4. Test data



Site no : 2# Contuction Shield Room Data no. : 25 Env. / Ins. : Temp:26.4°C Humi:57.8% Press:101.50kPaINE Phase : NEUTRAL

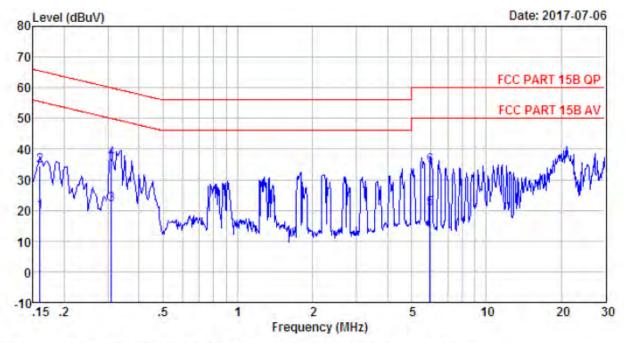
Limit : FCC PART 15B QP

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-330 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.20	9.60	9.80	8.53	27.93	53.62	25.69	Average
2	0.20	9.60	9.80	27.53	46.93	63.62	16.69	QP
3	1.53	9.62	9.83	0.99	20.44	46.00	25.56	Average
4	1.53	9.62	9.83	15.99	35.44	56.00	20.56	QP
5	5.74	9.65	9.86	7.13	26.64	50.00	23.36	Average
6	5.74	9.65	9.86	18.13	37.64	60.00	22.36	QP



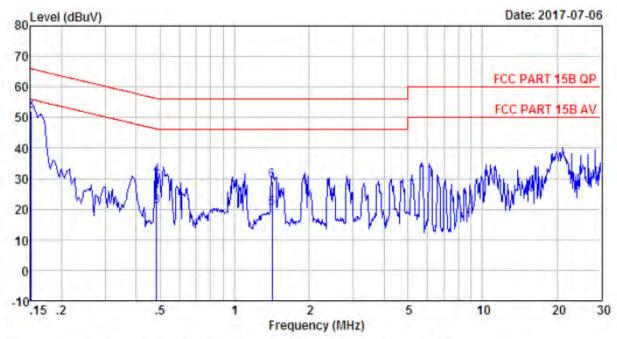
Site no : 2# Contuction Shield Room Data no. : 27 Env. / Ins. : Temp:26.4'C Humi:57.8% Press:101.50kPaINE Phase : LINE

Limit : FCC PART 15B QP Engineer : Seven

EUT ; portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

M/N : DP-330 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.61	9.81	0.07	19.49	55.47	35.98	Average
2	0.16	9.61	9.81	15.07	34.49	65.47	30.98	QP
3	0.31	9.61	9.83	2.45	21.89	49.97	28.08	Average
4	0.31	9.61	9.83	17.45	36.89	59.97	23.08	QP
5	5.93	9.65	9.87	0.99	20.51	50.00	29.49	Average
6	5.93	9.65	9.87	14.99	34.51	60.00	25.49	QP



Site no : 2# Contuction Shield Room Data no. : 29 Env. / Ins. : Temp:26.4'C Humi:57.8% Press:101.50kPaINE Phase : LINE

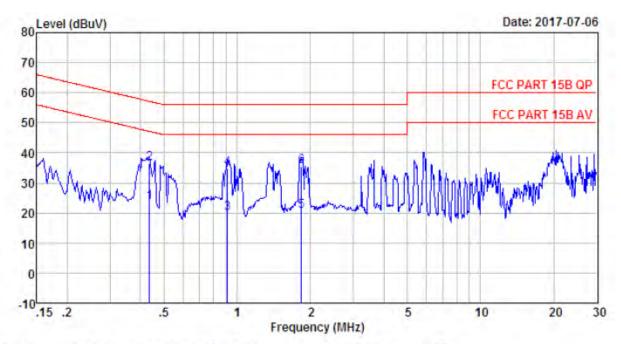
Limit : FCC PART 15B QF

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 240V/60Hz

M/N : DP-330 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9.61	9.81	21,71	41.13	56.00	14.87	Average
2	0.15	9.61	9.81	32.71	52.13	66.00	13.87	QF
3	0.48	9.61	9.81	1.52	20.94	46.27	25.33	Average
4	0.48	9.61	9.81	11.52	30.94	56.27	25.33	QP
5	1.42	9.62	9.82	0.75	20.19	46.00	25.81	Average
6	1.42	9.62	9.82	9.75	29.19	56.00	26.81	QP



Site no : 2# Contuction Shield Room Data no. : 31 Env. / Ins. : Temp:26.4'C Humi:57.8% Press:101.50kPaINE Phase : NEUTRAL

Limit : FCC PART 15B QP

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 240V/60Hz

M/N : DP-330 Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.44	9,59	9.81	4.18	23.58	47.15	23.57	Average
2	0.44	9.59	9.81	17.18	36.58	57.15	20.57	QP
3	0.91	9.61	9.82	0.42	19.85	46.00	26.15	Average
4	0.91	9.61	9.82	15.42	34.85	56.00	21.15	QP
5	1.84	9.62	9.83	0.98	20.43	46.00	25.57	Average
6	1.84	9.62	9.83	15,98	35.43	56.00	20.57	QP

4 RADIATED EMISSION TEST

4.1 Limit

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(2)

15.209 Limit

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

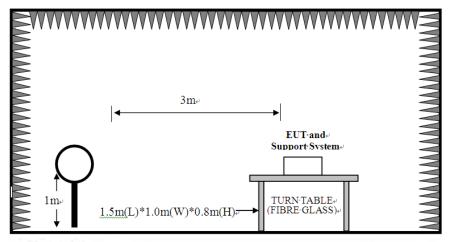
Remark : (1) Emission level $dB\mu V = 20 \log Emission$ level $\mu V/m$

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system.

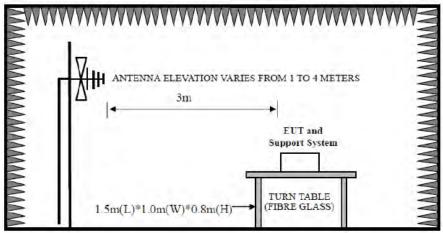


4.2. Block Diagram of Test setup

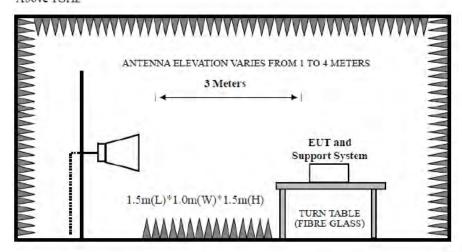
9kHz~30MHz+



30~1000MHz



Above 1GHz



4.3. Test Procedure

EUT was placed on a turn table, which is 0.8 meter high above ground for 9kHz~1000MHz test, and which is 1.5 meter high above ground for above 1GHz test. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

The test frequency analyzer system was set to Peak Detect (300Hz RBW in 9kHz to 150kHz and 10kHz RBW in 150kHz to 30MHz) Function and Specified Bandwidth with Maximum Hold Mode.

The bandwidth of the EMI test receiver (R&S ESVS10) is set at 120kHz for frequency range from 30MHz to 1000 MHz.

The bandwidth of the Spectrum's VBW is set at 1MHz and RBW is set at 1MHz for peak emissions measurement above 1GHz and 1MHz RBW, 10Hz VBW for average emissions measure above 1GHz

PEAK detector, 1MHz/1MHz for PAEK measurement,

PEAK detector, 1MHz/10Hz for Average measurement

The frequency range from 30MHz to 10th harmonic (25GHz) are checked.

4.4. Test Result

PASS.

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2412MHz . 2422MHz . 2437. 2452MHz MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



4.5. Test Data

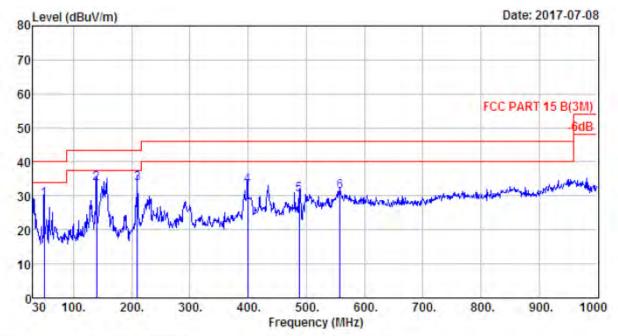
9 kHz – 30 MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



30-1000 MHz



Site no. : 2# 966 chamber Data no. : 667 Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL

: FCC PART 15 B (3M)

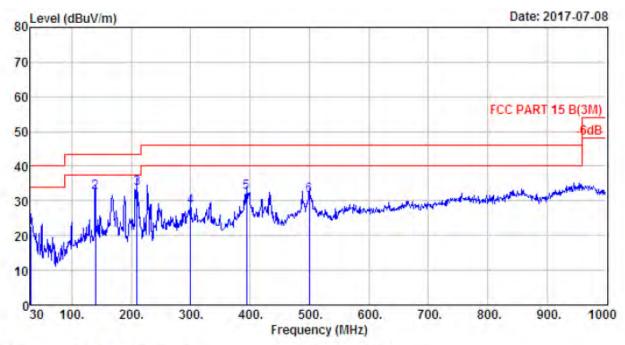
Env. / Ins. : Temp:23.8'; Humi:60%; Press:101.52kPa Engineer : Seven

EUT : portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

: DP-330 M/N Test Mode : TX Mode

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	49.400	8.11	1.17	19.52	28.80	40.00	11.20	QF
2	139.610	11.26	1.65	20.76	33.67	43.50	9.83	QP
3	209.450	8.38	2.09	23.15	33.62	43.50	9.88	QP
4	399.570	15.91	2.54	14.48	32.93	46.00	13.07	QP
5	487.840	17.82	3.04	9.45	30.31	46.00	15.69	QP
6	557.680	20.10	3.48	7.60	31,18	46.00	14.82	QP





Site no. : 2# 966 chamber Data no. : 668

Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL

Limit : FCC PARI 15 B(3M)

Env. / Ins. : Temp:23.8'; Humi:60%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DF-330 Test Mode : TX Mode

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	30.000	18.09	1.04	3.66	22.79	40.00	17.21	QP
2	139.610	11.26	1.65	19.69	32.60	43.50	10.90	QP
3	209.450	8.38	2.09	23.26	33.73	43.50	9.77	QP
4	299.660	12.87	2.48	13.09	28.44	46.00	17.56	QP
5	393.750	15.62	2.72	14.02	32.36	46.00	13.64	QF
6	499.480	17.98	3.13	10.46	31.57	46.00	14.43	QP

1000-18000 MHz

Site no. : 1# 966 Chamber Data no. : 93

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

: portable receipt and label printer EUT : DC 19V From Adapter Input AC 120V/60Hz Power

M/N : DP-330 Test Mode : IEEE 802.11b CH1 2412TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	94.01	93.61	74.00	-19.61	Peak
2	4824.00	31.28	11.84	35.66	42.72	50.18	74.00	23.82	Peak
3	7236.00	36.53	11.55	33.99	28.42	42.51	74.00	31.49	Peak
4	10316.00	38.65	11.41	34.51	28.74	44.29	74.00	29.71	Peak
5	11234.00	39.37	11.12	33.25	27.91	45.15	74.00	28.85	Peak
6	13546.00	40.21	11.44	32.61	26.59	45.63	74.00	28.37	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 94
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VEF Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

: portable receipt and label printer EUT Power : DC 19V From Adapter Input AC 120V/60Hz

M/N

M/N : DP-330 Test Mode : IEEE 802.11b CH1 2412TX

	Freq.	Ant. Factor (dB/m)		Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	90.09	89.69	74.00	-15.69	Peak
2	4824.00	31.28	11.84	35.66	42.89	50.35	74.00	23.65	Peak
3	7236.00	36.53	11.55	33.99	32.20	46.29	74.00	27.71	Peak
4	8684.00	37.32	11.45	33.66	31.36	46.47	74.00	27.53	Peak
5	11285.00	39.33	11.08	33.32	30.10	47.19	74.00	26.81	Peak
6	14056.00	41.51	10.90	33.06	26.97	46.32	74.00	27.68	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 95

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PARI 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

: Seven Engineer

EUT : portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

M/N : DP-330

Test Mode : IEEE 802.11b CH6 2437TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	96.09	95.51	74.00	-21.51	Peak
2	4874.00	31.37	12.07	35.76	41.40	49.08	74.00	24.92	Peak
3	7311.00	36.55	11.57	34.12	30.27	44.27	74.00	29.73	Peak
4	8650.00	37.27	11.45	33.68	30.04	45.08	74.00	28.92	Peak
5	10690.00	39.18	11.30	34.22	29.53	45.79	74.00	28.21	Peak
6	14056.00	41.51	10.90	33.06	26.91	46.26	74.00	27.74	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 96
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VER Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz

: DP-330 M/N

Test Mode : IEEE 802.11b CH6 2437TX

Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2437.00	27.60	6.67	34.85	96.26	95.68	74.00	-21.68	Peak
4874.00	31.37	12.07	35.76	42.68	50.36	74.00	23.64	Peak
7311.00	36.55	11.57	34.12	31.86	45.86	74.00	28.14	Peak
8684.00	37.32	11.45	33.66	29.81	44.92	74.00	29.08	Peak
11234.00	39.37	11.12	33.25	28,83	46.07	74.00	27.93	Peak
13716.00	40.69	11.24	32.94	28.23	47.22	74.00	26.78	Peak
	(MHz) 2437.00 4874.00 7311.00 8684.00 11234.00	Freq. Factor (MHz) (dB/m) 2437.00 27.60 4874.00 31.37 7311.00 36.55 8684.00 37.32 11234.00 39.37	Freq. Factor Loss (MHz) (dB/m) (dB) 2437.00 27.60 6.67 4874.00 31.37 12.07 7311.00 36.55 11.57 8684.00 37.32 11.45 11234.00 39.37 11.12	Freq. Factor Loss Factor (MHz) (dB/m) (dB) (dB) 2437.00 27.60 6.67 34.85 4874.00 31.37 12.07 35.76 7311.00 36.55 11.57 34.12 8684.00 37.32 11.45 33.66 11234.00 39.37 11.12 33.25	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 2437.00 27.60 6.67 34.85 96.26 4874.00 31.37 12.07 35.76 42.68 7311.00 36.55 11.57 34.12 31.86 8684.00 37.32 11.45 33.66 29.81 11234.00 39.37 11.12 33.25 28.83	Freq. Factor Loss Factor Reading Level (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 2437.00 27.60 6.67 34.85 96.26 95.68 4874.00 31.37 12.07 35.76 42.68 50.36 7311.00 36.55 11.57 34.12 31.86 45.86 8684.00 37.32 11.45 33.66 29.81 44.92 11234.00 39.37 11.12 33.25 28.83 46.07	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 2437.00 27.60 6.67 34.85 96.26 95.68 74.00 4874.00 31.37 12.07 35.76 42.68 50.36 74.00 7311.00 36.55 11.57 34.12 31.86 45.86 74.00 8684.00 37.32 11.45 33.66 29.81 44.92 74.00 11234.00 39.37 11.12 33.25 28.83 46.07 74.00	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 2437.00 27.60 6.67 34.85 96.26 95.68 74.00 -21.68 4874.00 31.37 12.07 35.76 42.68 50.36 74.00 23.64 7311.00 36.55 11.57 34.12 31.86 45.86 74.00 28.14 8684.00 37.32 11.45 33.66 29.81 44.92 74.00 29.08 11234.00 39.37 11.12 33.25 28.83 46.07 74.00 27.93

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 97

Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

: portable receipt and label printer EUT Power : DC 19V From Adapter Input AC 120V/60Hz
M/N : DP-330

: DP-330

Test Mode : IEEE 802.11b CH11 2462TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	93.53	92.82	74.00	-18.82	Peak
2	4924.00	31.45	12.29	35.91	43.34	51.17	74.00	22.83	Peak
3	7386.00	36.57	11.59	34.23	31.75	45.68	74.00	28.32	Peak
4	8684.00	37.32	11.45	33.66	31.21	46.32	74.00	27.68	Peak
- 5	11234.00	39.37	11.12	33.25	27.92	45.16	74.00	28.84	Peak
6	14124.00	41.57	10.91	33.22	28.65	47.91	74.00	26.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 98

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6';Humi:56%;Press:101.52kPa
Engineer : Seven
EUT : portable receipt and label printer

EUT : portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

M/N : DP-330

Test Mode : IEEE 802.11b CH11 2462TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	94.69	93.98	74.00	-19.98	Peak
2	4924.00	31.45	12.29	35.91	41.63	49.46	74.00	24.54	Peak
3	7386.00	36.57	11.59	34.23	33.18	47.11	74.00	26.89	Peak
4	8684.00	37.32	11.45	33.66	31.70	46.81	74.00	27.19	Peak
5	10214.00	38.48	11.47	34.50	30.42	45.87	74.00	28.13	Peak
6	13376.00	39.78	11.48	32.91	28.59	46.94	74.00	27.06	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 99
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VER Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

: Seven Engineer

: portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

M/N : DP-330

Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	89.13	88.73	74.00	-14.73	Peak
2	4824.00	31.28	11.84	35.66	42.49	49.95	74.00	24.05	Peak
3	7236.00	36.53	11.55	33.99	30.14	44.23	74.00	29.77	Peak
4	8684.00	37.32	11.45	33.66	30.36	45.47	74.00	28.53	Peak
5	11166.00	39.41	11.17	33.31	27.15	44.42	74.00	29.58	Peak
6	13444.00	39.95	11.49	32.74	27.63	46.33	74.00	27.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 100
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer : portable receipt and label printer

Power : DC 19V From Adapter Input AC 120V/60Hz
M/N : DP-330

: DP-330

Test Mode : IEEE 802.11g CH1 2412TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	92.76	92.36	74.00	-18.36	Peak
2	4824.00	31.28	11.84	35.66	42.76	50.22	74.00	23.78	Peak
3	7236.00	36.53	11.55	33.99	29.80	43.89	74.00	30.11	Peak
4	8684.00	37.32	11.45	33.66	30.26	45.37	74.00	28.63	Peak
5	11064.00	39.48	11.24	33.83	27.51	44.40	74.00	29.60	Peak
6	13580.00	40.31	11.40	32.64	26.59	45.66	74.00	28.34	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 101 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven
EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-330

Test Mode : IEEE 802.11g CH6 2437TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	92.98	92.40	74.00	-18.40	Peak
2	4874.00	31,37	12.07	35.76	42.49	50.17	74.00	23.83	Peak
3	7311.00	36.55	11.57	34.12	29.92	43.92	74.00	30.08	Peak
4	8990.00	37.41	11.46	34.40	30.36	44.83	74.00	29.17	Peak
5	11285.00	39.33	11.08	33.32	29.04	46.13	74.00	27.87	Peak
6	14090.00	41.54	10.91	33.13	28.46	47.78	74.00	26.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 102

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz

: DP-330 M/N

Test Mode : IEEE 802.11g CH6 2437TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	92.78	92.20	74.00	-18,20	Peak
2	4874.00	31.37	12.07	35.76	37.94	45.62	74.00	28.38	Peak
3	7311.00	36.55	11.57	34.12	30.37	44.37	74.00	29.63	Peak
4	8684.00	37.32	11.45	33.66	31.37	46.48	74.00	27.52	Peak
5	11166.00	39.41	11.17	33.31	29.23	46.50	74.00	27.50	Peak
6	15076.00	39.86	10.89	33.71	30.29	47.33	74.00	26.67	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 103

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz M/N : DP-330

M/N : DP-330 Test Mode : IEEE 802.11g CH11 2462TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	91.58	90.87	74.00	-16.87	Peak
2	4924.00	31.45	12.29	35.91	41.85	49.68	74.00	24.32	Feak
3	7386.00	36.57	11.59	34.23	30.66	44.59	74.00	29.41	Peak
4	8684.00	37.32	11.45	33.66	30.11	45.22	74.00	28.78	Peak
5	11200.00	39.39	11.14	33.24	27.29	44.58	74.00	29.42	Peak
6	15365.00	38.50	11.03	33.13	29.00	45.40	74.00	28.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 104
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERT Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven
EUT : portable receipt and label printer EUT : DC 19V From Adapter Input AC 120V/60Hz

: DP-330

Test Mode : IEEE 802.11g CH11 2462TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	90.00	89.42	74.00	-15.42	Peak
2	4924.00	31.45	12.29	35.91	40.76	48.59	74.00	25.41	Peak
3	7386.00	36.57	11.59	34.23	31.67	45.60	74.00	28.40	Peak
4	8684.00	37.32	11.45	33.66	30.25	45.36	74.00	28.64	Peak
5	13104.00	39.13	11.44	32.77	26.62	44.42	74.00	29.58	Peak
6	15127.00	39.62	10.92	33.80	30.66	47.40	74.00	26.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Dis. / Ant. : 3m ANT 1-18G Data no. : 105 Ant, pol. : VERTICAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz

: DP-330 M/N

Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2412.00	27.60	6.64	34.64	90.72	90.32	74.00	-16.32	Peak
2	4824.00	31.28	11.84	35.66	36.47	43.93	74.00	30.07	Peak
3	7236.00	36.53	11.55	33.99	28.65	42.74	74.00	31.26	Peak
4	8786.00	37.48	11.46	33.90	29.43	44.47	74.00	29.53	Peak
5	12390.00	38.73	11.01	33.44	28.09	44.39	74.00	29.61	Peak
6	13665.00	40.55	11.30	32.75	27.59	46.69	74.00	27.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Data no. : 106 Site no. : 1# 966 Chamber

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer

: Seven : portable receipt and label printer EUT : DC 19V From Adapter Input AC 120V/60Hz Power

Power : DC 19V M/N : DP-330

Test Mode : IEEE 802.11n HT20 CH1 2412TX

		Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
-	1	2412.00	27.60	6.64	34.64	92.33	91.93	74.00	-17.93	Peak
	2	4824.00	31.28	11.84	35.66	42.44	49.90	74.00	24.10	Peak
	3	7236.00	36.53	11.55	33.99	30.16	44.25	74.00	29.75	Peak
	4	8684.00	37.32	11.45	33.66	30.40	45.51	74.00	28.49	Peak
	5	11676.00	39.00	11.09	33.24	27.87	44.72	74.00	29.28	Peak
	6	13274.00	39.54	11.47	32.92	28.56	46.65	74.00	27.35	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 107
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERS
Limit : FCC PART 15C PEAK Ant. pol. : VERTICAL

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

: portable receipt and label printer EUT Power : DC 19V From Adapter Input AC 120V/60Hz M/N : DP-330

Test Mode : IEEE 802.11n HT20 CH6 2437TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	90.96	90.38	74.00	-16.38	Peak
2	4874.00	31.37	12.07	35.76	43.10	50.78	74.00	23.22	Peak
3	7311.00	36.55	11.57	34.12	30.49	44.49	74.00	29.51	Peak
4	8684.00	37.32	11.45	33.66	29.63	44.74	74.00	29.26	Peak
5	11166.00	39.41	11.17	33.31	28.72	45.99	74.00	28.01	Peak
6	13784.00	40.88	11.16	33.05	27.30	46.29	74.00	27.71	Peak
	3 4 5	(MHz) 1 2437.00 2 4874.00 3 7311.00 4 8684.00 5 11166.00	Freq. Factor (MHz) (dB/m) 1 2437.00 27.60 2 4874.00 31.37 3 7311.00 36.55 4 8684.00 37.32 5 11166.00 39.41	Freq. Factor Loss (MHz) (dB/m) (dB) 1 2437.00 27.60 6.67 2 4874.00 31.37 12.07 3 7311.00 36.55 11.57 4 8684.00 37.32 11.45 5 11166.00 39.41 11.17	Freq. Factor Loss Factor (MHz) (dB/m) (dB) (dB) 1 2437.00 27.60 6.67 34.85 2 4874.00 31.37 12.07 35.76 3 7311.00 36.55 11.57 34.12 4 8684.00 37.32 11.45 33.66 5 11166.00 39.41 11.17 33.31	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 1 2437.00 27.60 6.67 34.85 90.96 2 4874.00 31.37 12.07 35.76 43.10 3 7311.00 36.55 11.57 34.12 30.49 4 8684.00 37.32 11.45 33.66 29.63 5 11166.00 39.41 11.17 33.31 28.72	Freq. Factor Loss Factor Reading Level (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 1 2437.00 27.60 6.67 34.85 90.96 90.38 2 4874.00 31.37 12.07 35.76 43.10 50.78 3 7311.00 36.55 11.57 34.12 30.49 44.49 4 8684.00 37.32 11.45 33.66 29.63 44.74 5 11166.00 39.41 11.17 33.31 28.72 45.99	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 1 2437.00 27.60 6.67 34.85 90.96 90.38 74.00 2 4874.00 31.37 12.07 35.76 43.10 50.78 74.00 3 7311.00 36.55 11.57 34.12 30.49 44.49 74.00 4 8684.00 37.32 11.45 33.66 29.63 44.74 74.00 5 11166.00 39.41 11.17 33.31 28.72 45.99 74.00	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 1 2437.00 27.60 6.67 34.85 90.96 90.38 74.00 -16.38 2 4874.00 31.37 12.07 35.76 43.10 50.78 74.00 23.22 3 7311.00 36.55 11.57 34.12 30.49 44.49 74.00 29.51 4 8684.00 37.32 11.45 33.66 29.63 44.74 74.00 29.26 5 11166.00 39.41 11.17 33.31 28.72 45.99 74.00 28.01

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 108
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORI Ant. pol. : HORIZONIAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

: portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-330

Test Mode : IEEE 802.11n HT20 CH6 2437TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2437.00	27.60	6.67	34.85	90.97	90.39	74.00	-16.39	Peak
2	4874.00	31.37	12.07	35.76	43.91	51.59	74.00	22.41	Peak
3	7311.00	36.55	11.57	34.12	30.70	44.70	74.00	29.30	Peak
4	8684.00	37.32	11.45	33,66	31.41	46.52	74.00	27.48	Peak
5	10265.00	38.56	11.44	34.49	31.64	47.15	74.00	26.85	Peak
6	13495.00	40.07	11.50	32.65	28.43	47.35	74.00	26.65	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Data no. : 109 Site no. : 1# 966 Chamber

Ant. pol. : HORIZONTAL Dis. / Ant. : 3m ANT 1-18G

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer . DC 19V : DP-330 Test Mode : TE Power : DC 19V From Adapter Input AC 120V/60Hz

: IEEE 802,11n HT20 CH11 2462TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	87.52	86.81	74.00	-12.81	Peak
2	4924.00	31.45	12.29	35.91	41.09	48.92	74.00	25.08	Peak
3	7386.00	36.57	11.59	34.23	30.77	44.70	74.00	29.30	Peak
4	8684.00	37.32	11.45	33.66	30.85	45.96	74.00	28.04	Peak
5	10894.00	39.41	11.29	34.05	28.30	44.95	74.00	29.05	Peak
6	14566.00	41.71	10.92	33.66	27.43	46.40	74.00	27.60	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 110 Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz
M/N : DP-330

Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq.	Ant. Factor (dB/m)		Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.00	27.58	6.69	34.98	84.92	84.21	74.00	-10.21	Peak
2	4924.00	31.45	12.29	35.91	39.53	47.36	74.00	26.64	Peak
3	7386.00	36.57	11.59	34.23	31.66	45.59	74.00	28.41	Peak
4	9160.00	37.69	11.54	34.07	30.77	45.93	74.00	28.07	Peak
5	11370.00	39,28	11.02	33.51	29.63	46.42	74.00	27.58	Peak
6	14090.00	41.54	10.91	33.13	27.67	46.99	74.00	27.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Data no. : 111 Site no. : 1# 966 Chamber

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

: portable receipt and label printer EUT Power M/N : DC 19V From Adapter Input AC 120V/60Hz

: DP-330

Test Mode : IEEE 802.11n HT40 CH1 2422TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	34.74	89.32	88.84	74.00	-14.84	Peak
2	4844.00	31.31	11.92	35.68	42.24	49.79	74.00	24.21	Peak
3	7266.00	36.54	11.56	34.05	29.61	43.66	74.00	30.34	Peak
4	10180.00	38.42	11.49	34.53	29.39	44.77	74.00	29.23	Peak
5	11336.00	39.30	11.04	33.44	28.43	45.33	74.00	28.67	Peak
6	13427.00	39.91	11.49	32.80	28.09	46.69	74.00	27.31	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Data no. : 112 Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

: portable receipt and label printer EUT Power : DC 19V From Adapter Input AC 120V/60Hz M/N : DP-330

: DP-330

Test Mode : IEEE 802.11n HT40 CH1 2422TX

2000	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2422.00	27.60	6.66	34.74	87.27	86.79	74.00	-12.79	Peak
2	4844.00	31.31	11.92	35.68	36.21	43.76	74.00	30.24	Peak
3	7266.00	36.54	11.56	34.05	30.35	44.40	74.00	29.60	Peak
4	9126.00	37.62	11.52	34.09	30.99	46.04	74.00	27.96	Peak
5	11166.00	39.41	11.17	33.31	29.64	46.91	74.00	27.09	Peak
6	14600.00	41.59	10.92	33.80	28.12	46,83	74.00	27.17	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 113
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HOR Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz M/N : DP-330

: DP-330

Test Mode : IEEE 802.11n HT40 CH4 2437TX

Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2437.00	27.60	6.67	34.85	88.00	87.42	74.00	-13.42	Peak
4874.00	31.37	12.07	35.76	39.37	47.05	74.00	26.95	Peak
7311.00	36.55	11.57	34.12	29.71	43.71	74.00	30.29	Peak
10095.00	38.27	11.53	34.69	29.10	44.21	74.00	29.79	Peak
10945.00	39.46	11.29	34.13	28.09	44.71	74.00	29.29	Peak
14056.00	41.51	10.90	33.06	28.44	47.79	74.00	26.21	Peak
	2437.00 4874.00 7311.00 10095.00 10945.00	Freq. Factor (MHz) (dB/m) 2437.00 27.60 4874.00 31.37 7311.00 36.55 10095.00 38.27 10945.00 39.46	Freq. Factor Loss (MHz) (dB/m) (dB) 2437.00 27.60 6.67 4874.00 31.37 12.07 7311.00 36.55 11.57 10095.00 38.27 11.53 10945.00 39.46 11.29	Freq. Factor Loss Factor (MHz) (dB/m) (dB) (dB) 2437.00 27.60 6.67 34.85 4874.00 31.37 12.07 35.76 7311.00 36.55 11.57 34.12 10095.00 38.27 11.53 34.69 10945.00 39.46 11.29 34.13	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 2437.00 27.60 6.67 34.85 88.00 4874.00 31.37 12.07 35.76 39.37 7311.00 36.55 11.57 34.12 29.71 10095.00 38.27 11.53 34.69 29.10 10945.00 39.46 11.29 34.13 28.09	Freq. Factor Loss Factor Reading Level (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 2437.00 27.60 6.67 34.85 88.00 87.42 4874.00 31.37 12.07 35.76 39.37 47.05 7311.00 36.55 11.57 34.12 29.71 43.71 10095.00 38.27 11.53 34.69 29.10 44.21 10945.00 39.46 11.29 34.13 28.09 44.71	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 2437.00 27.60 6.67 34.85 88.00 87.42 74.00 4874.00 31.37 12.07 35.76 39.37 47.05 74.00 7311.00 36.55 11.57 34.12 29.71 43.71 74.00 10095.00 38.27 11.53 34.69 29.10 44.21 74.00 10945.00 39.46 11.29 34.13 28.09 44.71 74.00	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 2437.00 27.60 6.67 34.85 88.00 87.42 74.00 -13.42 4874.00 31.37 12.07 35.76 39.37 47.05 74.00 26.95 7311.00 36.55 11.57 34.12 29.71 43.71 74.00 30.29 10095.00 38.27 11.53 34.69 29.10 44.21 74.00 29.79 10945.00 39.46 11.29 34.13 28.09 44.71 74.00 29.29

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 114 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6';Humi:56%;Press:101.52kPa
Engineer : Seven

Engineer

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz

: DP-330 M/N

Test Mode : IEEE 802.11n HT40 CH4 2437TX

Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
2437.00	27.60	6.67	34.85	85.17	84.59	74.00	-10.59	Peak
4874.00	31.37	12.07	35.76	43.15	50.83	74.00	23.17	Peak
7311.00	36.55	11.57	34.12	31.87	45.87	74.00	28.13	Peak
8684.00	37.32	11.45	33.66	31.32	46.43	74.00	27.57	Peak
11200.00	39.39	11.14	33.24	30.12	47.41	74.00	26.59	Peak
14056.00	41.51	10.90	33.06	27.52	46.87	74.00	27.13	Peak
	2437.00 4874.00 7311.00 8684.00 11200.00	Freq. Factor (MHz) (dB/m) 2437.00 27.60 4874.00 31.37 7311.00 36.55 8684.00 37.32 11200.00 39.39	Freq. Factor Loss (MHz) (dB/m) (dB) 2437.00 27.60 6.67 4874.00 31.37 12.07 7311.00 36.55 11.57 8684.00 37.32 11.45 11200.00 39.39 11.14	Freq. Factor Loss Factor (MHz) (dB/m) (dB) (dB) 2437.00 27.60 6.67 34.85 4874.00 31.37 12.07 35.76 7311.00 36.55 11.57 34.12 8684.00 37.32 11.45 33.66 11200.00 39.39 11.14 33.24	Freq. Factor Loss Factor Reading (MHz) (dB/m) (dB) (dB) (dBuV) 2437.00 27.60 6.67 34.85 85.17 4874.00 31.37 12.07 35.76 43.15 7311.00 36.55 11.57 34.12 31.87 8684.00 37.32 11.45 33.66 31.32 11200.00 39.39 11.14 33.24 30.12	Freq. Factor Loss Factor Reading Level (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) 2437.00 27.60 6.67 34.85 85.17 84.59 4874.00 31.37 12.07 35.76 43.15 50.83 7311.00 36.55 11.57 34.12 31.87 45.87 8684.00 37.32 11.45 33.66 31.32 46.43 11200.00 39.39 11.14 33.24 30.12 47.41	Freq. Factor Loss Factor Reading Level Limits (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) 2437.00 27.60 6.67 34.85 85.17 84.59 74.00 4874.00 31.37 12.07 35.76 43.15 50.83 74.00 7311.00 36.55 11.57 34.12 31.87 45.87 74.00 8684.00 37.32 11.45 33.66 31.32 46.43 74.00 11200.00 39.39 11.14 33.24 30.12 47.41 74.00	Freq. Factor Loss Factor Reading Level Limits Margin (MHz) (dB/m) (dB) (dB) (dBuV) (dBuV/m) (dBuV/m) (dB) 2437.00 27.60 6.67 34.85 85.17 84.59 74.00 -10.59 4874.00 31.37 12.07 35.76 43.15 50.83 74.00 23.17 7311.00 36.55 11.57 34.12 31.87 45.87 74.00 28.13 8684.00 37.32 11.45 33.66 31.32 46.43 74.00 27.57 11200.00 39.39 11.14 33.24 30.12 47.41 74.00 26.59

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 115
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-330 Test Mode : IEEE 802.11n HT40 CH7 2452TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.59	6.67	34.85	85.89	85.30	74.00	-11.30	Peak
2	4904.00	31.42	12.22	35.87	43.16	50.93	74.00	23.07	Peak
3	7356.00	36.56	11.58	34.19	29.72	43.67	74.00	30.33	Peak
4	9126.00	37,62	11.52	34.09	27.31	42.36	74.00	31.64	Peak
5	11285.00	39.33	11.08	33.32	28.00	45.09	74.00	28.91	Peak
6	14056.00	41.51	10.90	33.06	28.01	47.36	74.00	26.64	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.

2. The emission levels that are 20dB below the official limit are not reported.

Site no. : 1# 966 Chamber Data no. : 116

Ant. pol. : HORIZONTAL Dis. / Ant. : 3m ANT 1-18G

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz M/N : DP-330 . DC 19V : DP-330 Test Mode : TP-

: IEEE 802.11n HT40 CH7 2452TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2452.00	27.59	6.67	34.85	87.14	86.55	74.00	-12.55	Peak
2	4904.00	31.42	12.22	35.87	38.25	46.02	74.00	27.98	Peak
3	7356.00	36.56	11.58	34.19	30.23	44.18	74.00	29.82	Peak
4	8684.00	37.32	11.45	33.66	31.56	46.67	74.00	27.33	Peak
5	10775.00	39.28	11.30	34.02	29.20	45.76	74.00	28.24	Peak
6	14056.00	41.51	10.90	33.06	28.61	47.96	74.00	26.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



18000MHz - 25000MHz

Pass

Note: The amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

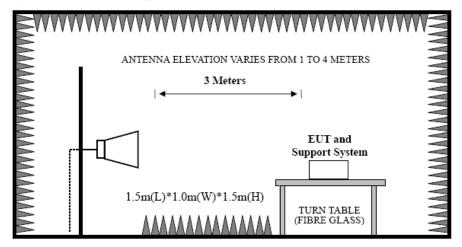


5 BAND EDGE COMPLIANCE TEST

5.1 Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits

5.2 Block Diagram of Test setup



5.3 Test Procedure

EUT was placed on a turn table, which is 1.5 m high above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. Power on the EUT and let it working in test mode, then test it. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower. The antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.

Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of emissions

 $Peak: RBW = 1 MHz, VBW = 1 MHz, Detector = PEAK \ detector, Sweep \ time = auto.$

AV : RBW = 1MHz, VBW = 10Hz, Detector=PEAK detector, Sweep time = auto.

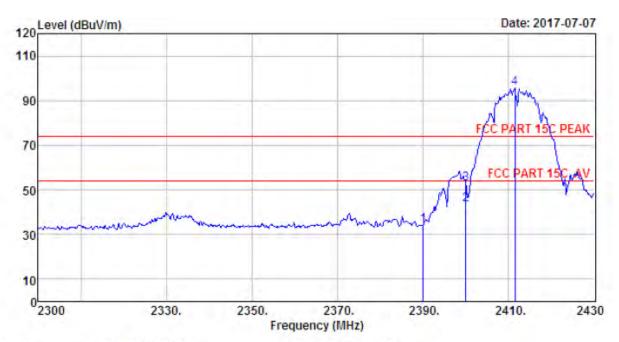
5.4 Test Result

Pass (The testing data was attached in the next pages.)

- Note: 1. For emissions above 1GHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
 - 2. The frequency 2412 MHz, 2422 MHz, 2452 MHz and 2462 MHz is fundamental frequency which no limit, the limit on plots is automatically generated by the software, it's not fundamental limit, we can't remove it.



5.5 Test Data



Site no. : 1# 966 Chamber Data no. : 117 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power : DC 19V From Adapter Input AC 120V/60Hz

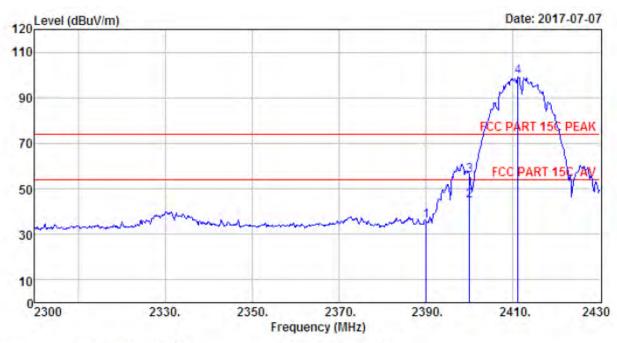
M/N

M/N : DP-330 Test Mode : IEEE 802.11b CH1 2412TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	34,30	33.94	74.00	40.06	Peak
2	2400.00	27.61	6.62	34.64	43.91	43.50	54.00	10.50	Average
3	2400.00	27.61	6.62	34.64	52.91	52.50	74.00	21.50	Peak
4	2411.54	27.60	6.64	34.64	96.01	95.61	74.00	-21.61	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 118

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer Power M/N : DC 19V From Adapter Input AC 120V/60Hz

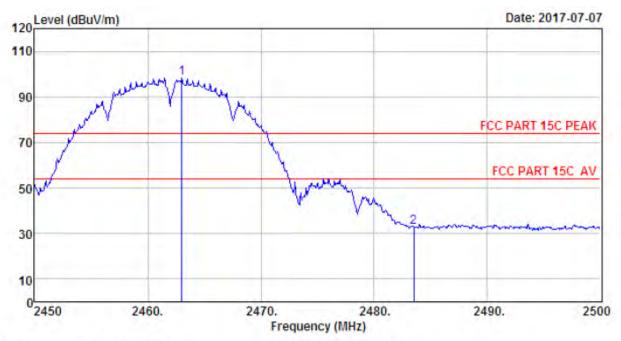
: DP-330

Test Mode : IEEE 802.11b CH1 2412TX

-64555	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	36.18	35.82	74.00	38.18	Peak
2	2400.00	27.61	6.62	34.64	45.14	44.73	54.00	9.27	Average
3	2400.00	27.61	6.62	34.64	56.14	55.73	74.00	18.27	Peak
4	2411.15	27.60	6.64	34.64	99,45	99.05	74.00	-25.05	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 119

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONIAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

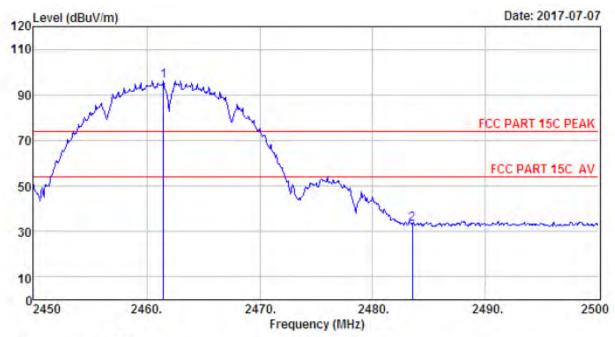
EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-330

Test Mode : IEEE 802.11b CH11 2462TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.00	27.58	6.69	34.98	99.17	98.46	74.00	-24.46	Peak
2	2483.50	27.58	6.71	35.11	33.67	32.85	74.00	41.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 120
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

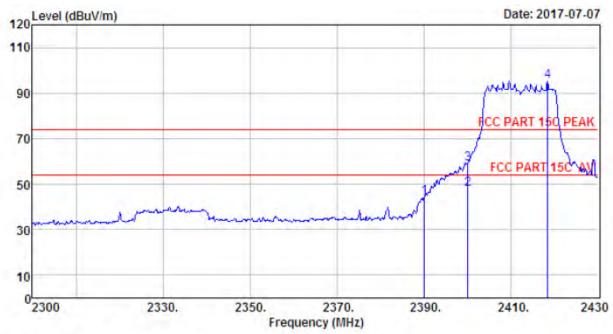
M/N : DP-330

Test Mode : IEEE 802.11b CH11 2462TX

	Freq.	Ant. Factor (dB/m)			Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.50	27.58	6.69	34.98	96.93	96.22	74.00	-22.22	Peak
2	2483.50	27.58	6.71	35.11	33.89	33.07	74.00	40.93	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 121

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

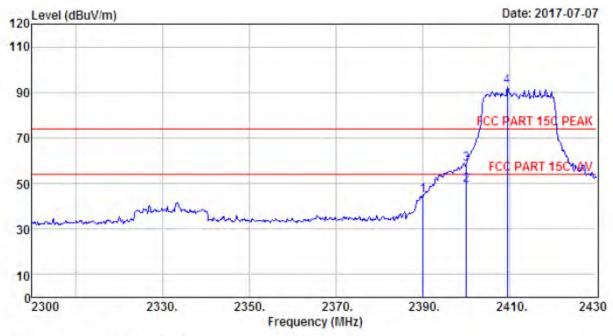
M/N : DP-330

Test Mode : IEEE 802.11g CH1 2412TX

	Freq.	Ant. Factor (dB/m)		Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	44.47	44.11	74.00	29.89	Peak
2	2400.00	27.61	6.62	34.64	48.42	48.01	54.00	5.99	Average
3	2400.00	27.61	6.62	34.64	59.42	59.01	74.00	14.99	Peak
4	2418.30	27.60	6.64	34.74	95.68	95.18	74.00	-21.18	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 122 Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

: Seven Engineer

EUT : portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

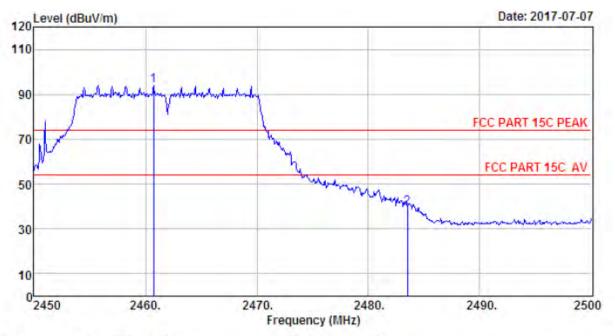
M/N : DP-330

Test Mode : IEEE 802.11g CH1 2412TX

	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	44.92	44.56	74.00	29.44	Peak
2	2400.00	27.61	6.62	34.64	49.74	49.33	54.00	4.67	Average
3	2400.00	27.61	6.62	34.64	58.74	58.33	74.00	15.67	Feak
4	2409.46	27.60	6.64	34.64	92.86	92.46	74.00	-18.46	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Data no. : 123

Site no. : 1# 966 Chamber Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK Limit

Env. / Ins. : Temp:26.6';Humi:56%;Press:101.52kPa
Engineer : Seven

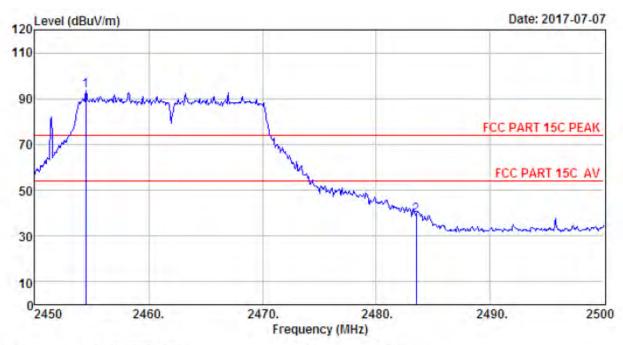
EUT : portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

: DP-330 M/N

: IEEE 802.11g CH11 2462IX Test Mode

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.75	27.58	6.69	34.98	94.47	93.76	74,00	-19,76	Peak
2	2483.50	27.58	6.71	35.11	40.19	39.37	74.00	34.63	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 124

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

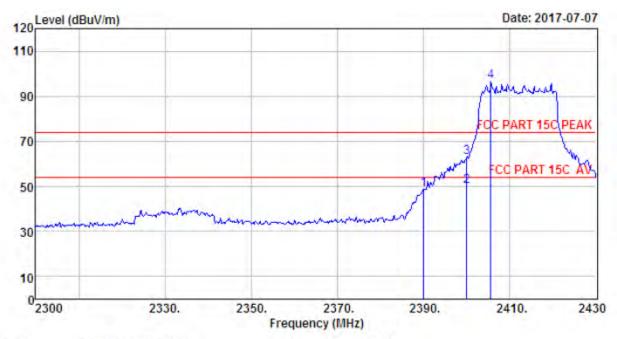
M/N : DP-330

Test Mode : IEEE 802.11g CH11 2462TX

		Ant.	Cable	Amp		Emission			
	Freq.	Factor (dB/m)	Loss (dB)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2454.50	27.59	6.69	34.98	93.92	93.22	74.00	-19.22	Peak
2	2483.50	27.58	6.71	35.11	39.78	38.96	74.00	35.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 125

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer

Fower : DC 19V From Adapter Input AC 120V/60Hz

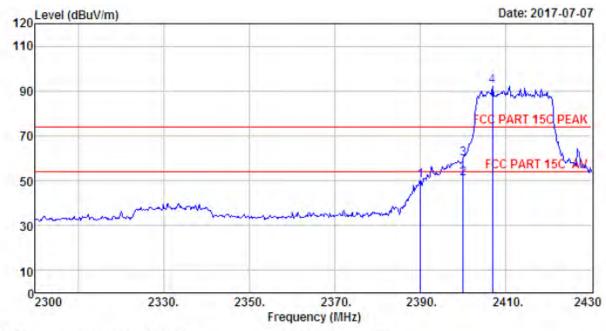
M/N : DP-330

Test Mode : IEEE 802.11n HT20 CH1 2412TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	49.27	48.91	74.00	25.09	Peak
2	2400.00	27.61	6.62	34.64	50.42	50.01	54.00	3.99	Average
3	2400.00	27.61	6.62	34.64	63.42	63.01	74.00	10.99	Peak
4	2405.56	27.61	6.64	34.64	96.86	96.47	74.00	-22.47	Peak

Remarks: 1, Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 126 Dis. / Ant. : 3m ANT 1-18G Limit : FCC PART 15C PEAK Ant. pol. : VERTICAL

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer

: Seven : portable receipt and label printer EUT Power : DC 19V From Adapter Input AC 120V/60Hz

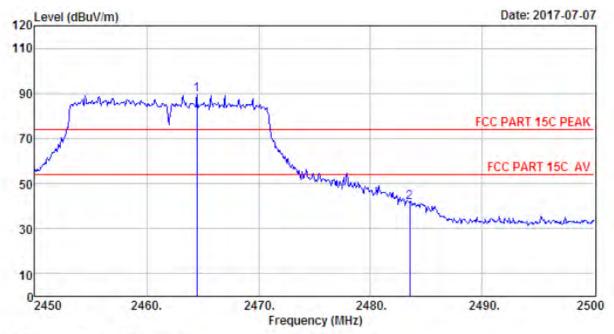
: DP-330 M/N

: IEEE 802.11n HT20 CH1 2412TX Test Mode

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.64	6.62	34.62	50.47	50.11	74.00	23.89	Peak
2	2400.00	27.61	6.62	34.64	51.27	50.86	54.00	3.14	Average
3	2400.00	27.61	6.62	34.64	60.27	59.86	74.00	14.14	Peak
4	2406.86	27.61	6.64	34.64	92.55	92.16	74.00	-18.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 127
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

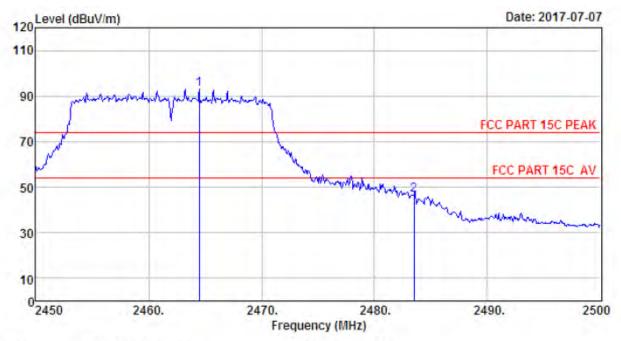
EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-330

Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq.	Ant. Factor (dB/m)			Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.50	27.58	6.69	34.98	90.12	89.41	74.00	-15.41	Peak
2	2483.50	27.58	6.71	35.11	42.61	41.79	74.00	32.21	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 128

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK
Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

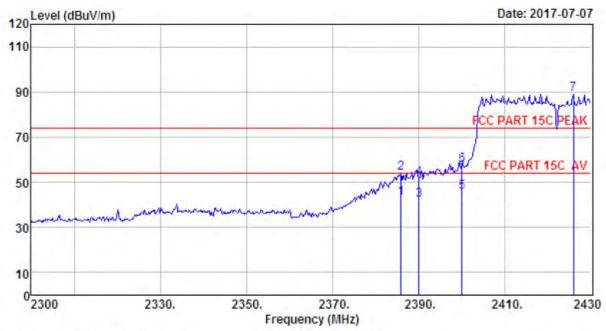
EUT : portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

M/N : DP-330

Test Mode : IEEE 802.11n HT20 CH11 2462TX

	Freq.	Ant. Factor (dB/m)			Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.50	27.58	6.69	34.98	93.64	92.93	74.00	-18.93	Peak
2	2483.50	27.58	6.71	35.11	47.43	46.61	74.00	27.39	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



Site no. : 1# 966 Chamber Data no. : 129
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

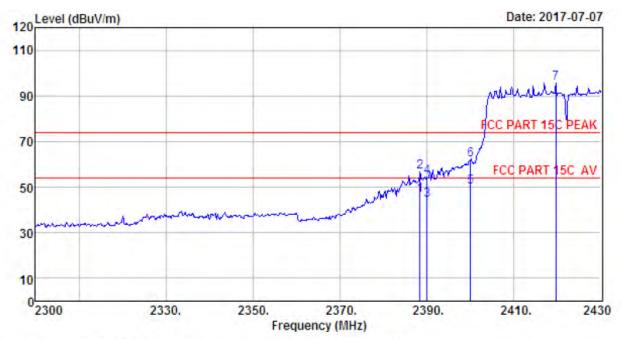
M/N : DP-330

Test Mode : IEEE 802,11n HT40 CH1 2422TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.80	27.64	6.62	34.62	43.21	42.85	54.00	11.15	Average
2	2385.80	27.64	6.62	34.62	54.21	53.85	74.00	20.15	Peak
3	2390.00	27.64	6.62	34.62	42.25	41.89	54.00	12.11	Average
4	2390.00	27.64	6.62	34.62	52.25	51.89	74.00	22.11	Peak
5	2400.00	27.61	6.62	34.64	46.04	45.63	54.00	8.37	Average
6	2400.00	27.61	6.62	34.64	58.04	57.63	74.00	16.37	Peak
7	2425.84	27.60	6.66	34.74	89.64	89.16	74.00	-15.16	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 130

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

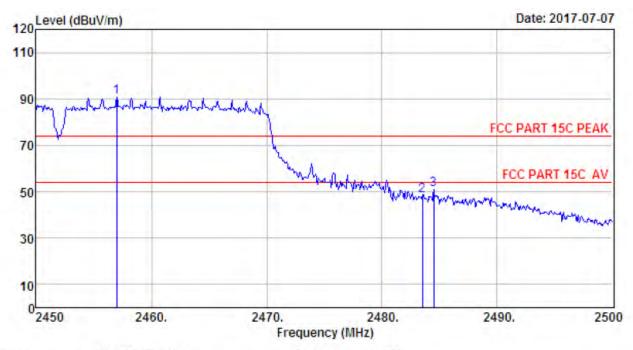
M/N : DP-330

Test Mode : IEEE 802.11n HT40 CH1 2422TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)	Amp Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.40	27.64	6.62	34.62	47.02	46.66	54.00	7.34	Average
2	2388.40	27.64	6.62	34.62	57.02	56.66	74.00	17.34	Peak
3	2390.00	27.64	6.62	34.62	44.60	44.24	54.00	9.76	Average
4	2390.00	27.64	6.62	34.62	54.60	54.24	74.00	19.76	Peak
5	2400.00	27.61	6.62	34.64	50.58	50.17	54.00	3.83	Average
6	2400.00	27.61	6.62	34.64	62.58	62.17	74.00	11.83	Peak
7	2419.60	27.60	6.66	34.74	96.17	95.69	74.00	-21.69	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





: 1# 966 Chamber Site no. Data no. : 131

Dis. / Ant. : 3m ANT 1-18G Ant. pol. : HORIZONTAL

: FCC PART 15C PEAK

Env. / Ins. : Temp:26.6';Humi:56%;Press:101.52kPa
Engineer : Seven

EUT : portable receipt and label printer : DC 19V From Adapter Input AC 120V/60Hz Power

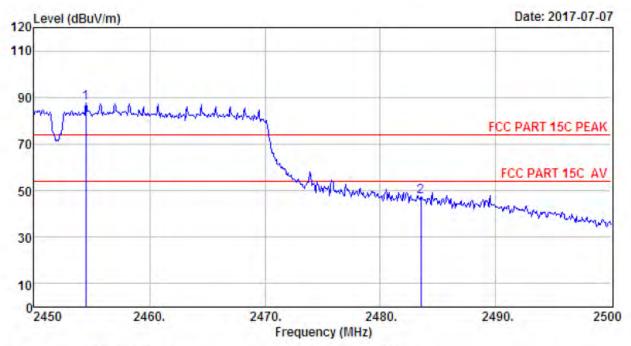
: DP-330

Test Mode : IEEE 802.11n HT40 CH7 2452TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.00	27.59	6.69	34.98	91.40	90.70	74.00	-16.70	Peak
2	2483.50	27.58	6.71	35.11	49.05	48.23	74.00	25.77	Peak
3	2484.50	27.58	6.71	35.11	51.67	50.85	74.00	23.15	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.





Site no. : 1# 966 Chamber Data no. : 132
Dis. / Ant. : 3m ANT 1-18G Ant. pol. : VERTICAL

Limit : FCC PART 15C PEAK

Env. / Ins. : Temp:26.6'; Humi:56%; Press:101.52kPa

Engineer : Seven

EUT : portable receipt and label printer
Power : DC 19V From Adapter Input AC 120V/60Hz

M/N : DP-330

Test Mode : IEEE 802.11n HT40 CH7 2452TX

	Freq.	Ant. Factor (dB/m)	Cable Loss (dB)		Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2454.50	27.59	6,69	34.98	88.22	87.52	74.00	-13.52	Peak
2	2483.50	27.58	6.71	35.11	48.31	47.49	74.00	26.51	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.



6 6dB & 20dB Bandwidth Test

6.1 Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

6.2 Test Procedure for 6dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (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.

6.3 Test Procedure for 20dB

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in C63.10
 - (1). The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
 - (2). The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW andvideo bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement.
 - (3). Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than [10 log (OBW/RBW)] below the reference level. Specific guidance is given in 4.1.5.2.
 - (4). Steps a) through c) might require iteration to adjust within the specified tolerances.
 - (5). The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target "-xx dB down" requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
 - (6). Set detection mode to peak and trace mode to max hold.
 - (7). Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
 - (8). Determine the "-xx dB down amplitude" using [(reference value) -xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
 - (9). If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
 - (10). Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the "_xx dB down amplitude" determined in step h). If a marker is below this "-xx dB down amplitude" value,



then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the "_xx dB down amplitude" determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

(11). The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).



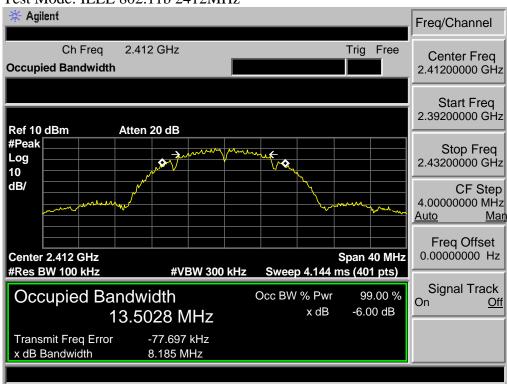
6.4 Test Result

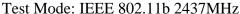
EUT: portable rece	eipt and label pi	rinter		
M/N: DP-330				
Test date: 2017-07-0)3	Tested by: Seven		Test site: RF Site
Test Mode	СН	6dB bandwidth (MHz)	20dB bandwidth (MHz)	Limit (KHz)
	CH1	8.185	15.362	>500
IEEE 802.11 b	CH6	8.594	15.364	>500
	CH11	8.651	15.355	>500
	CH1	16.256	19.679	>500
IEEE 802.11 g	CH6	16.411	19.666	>500
	CH11	16.196	19.571	>500
IEEE 000 11	CH1	17.112	20.420	>500
IEEE 802.11 n HT 20	CH6	16.972	20.158	>500
111 20	CH11	17.397	20.283	>500
IEEE 000 11	CH1	35.427	40.050	>500
IEEE 802.11 n HT 40	CH4	35.590	40.067	>500
111 40	CH7	35.183	40.131	>500
Conclusion: PASS	_			

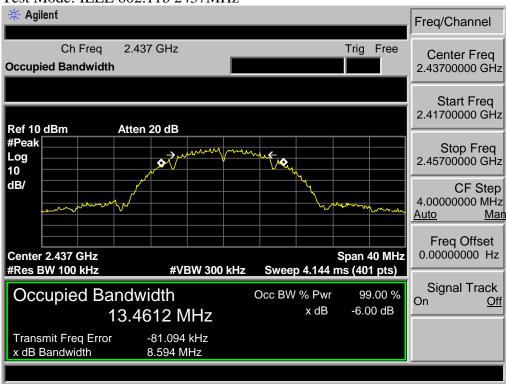


6.5 6dB Test Data

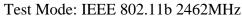
Test Mode: IEEE 802.11b 2412MHz

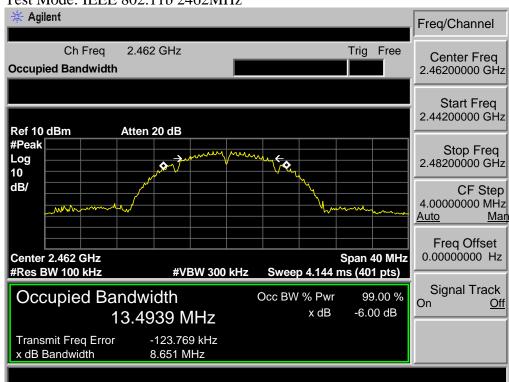






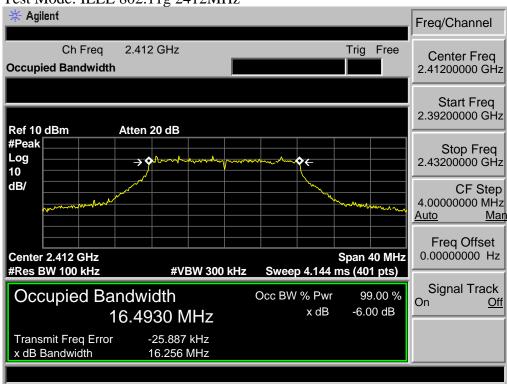




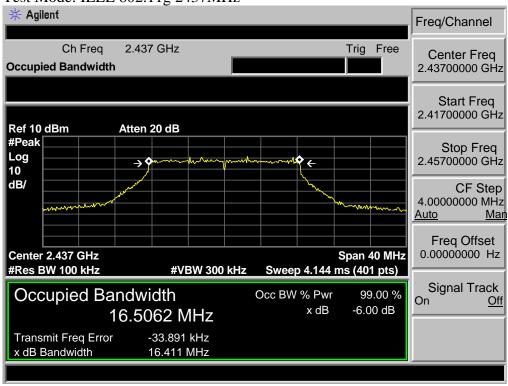




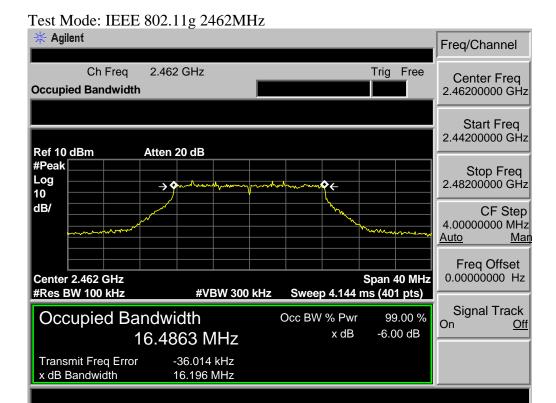
Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz

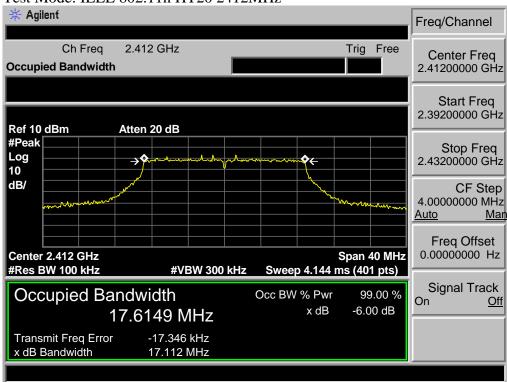




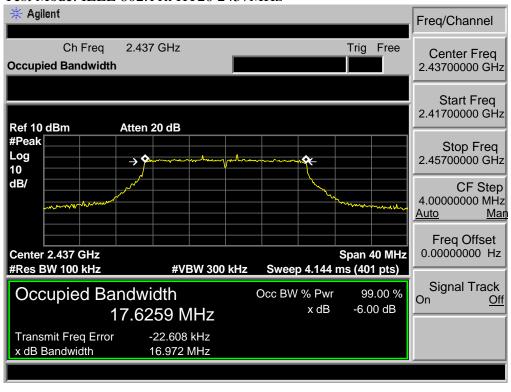




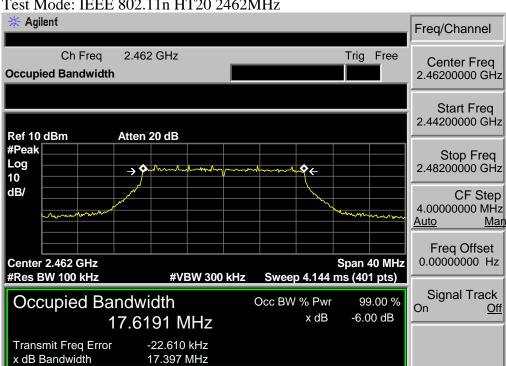


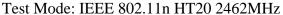


Test Mode: IEEE 802.11n HT20 2437MHz



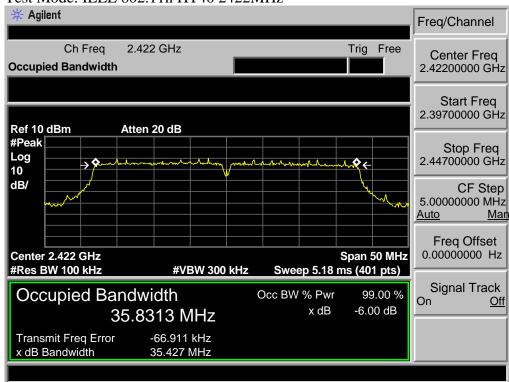




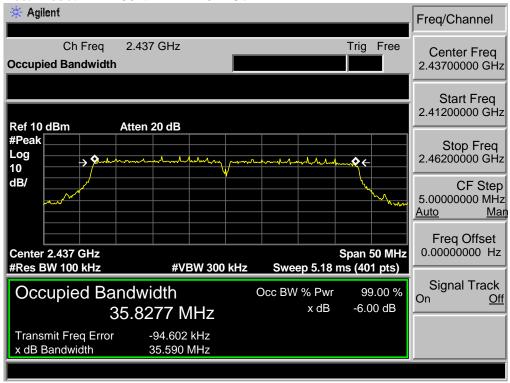






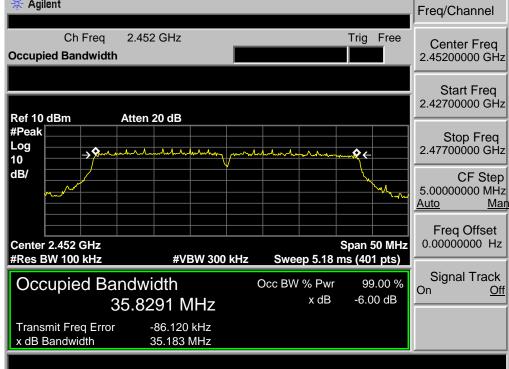


Test Mode: IEEE 802.11n HT40 2437MHz





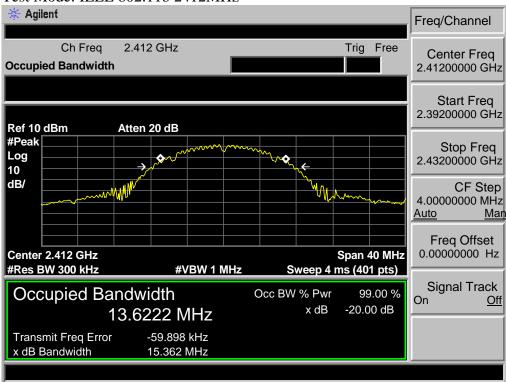


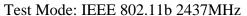


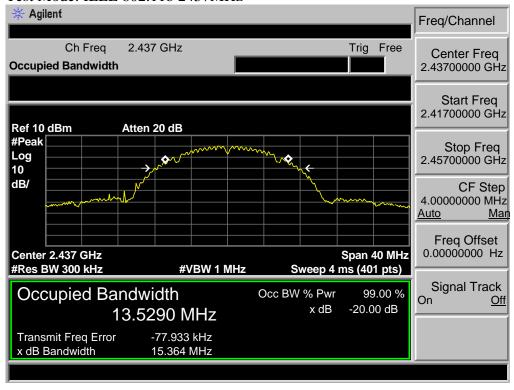


6.6 20dB Test Data

Test Mode: IEEE 802.11b 2412MHz

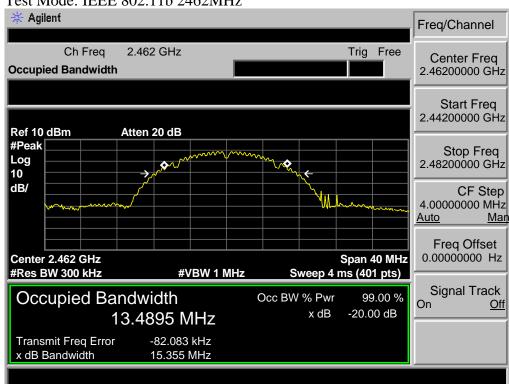






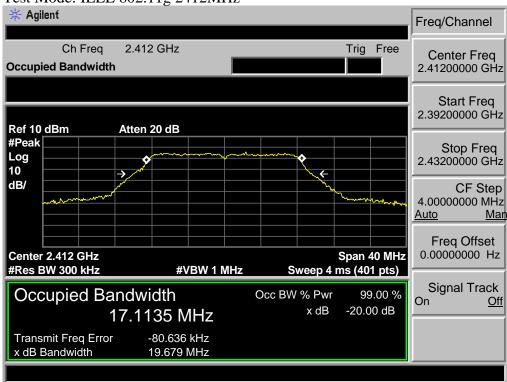




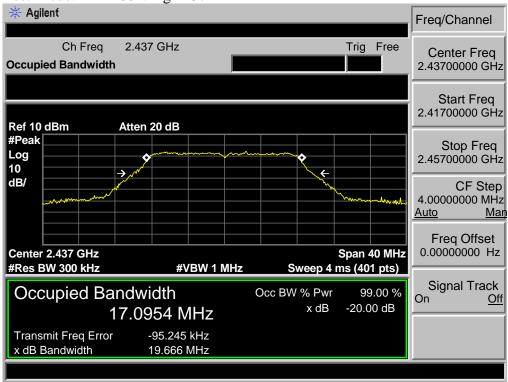




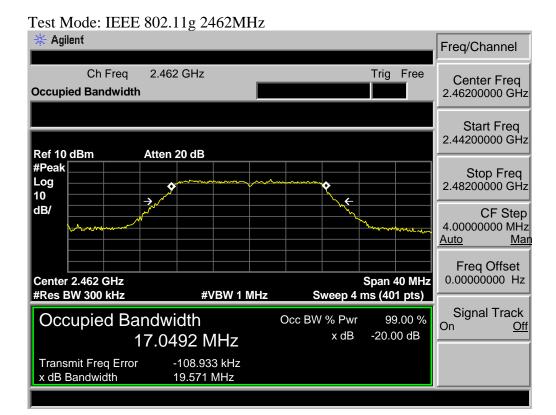
Test Mode: IEEE 802.11g 2412MHz



Test Mode: IEEE 802.11g 2437MHz

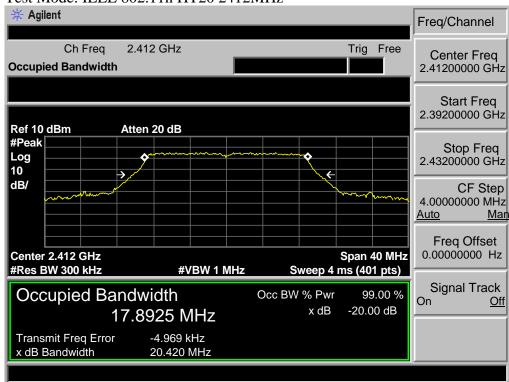




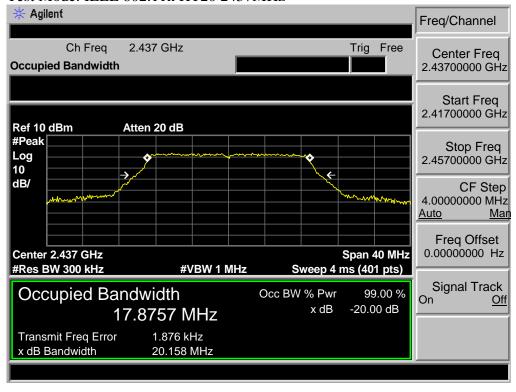




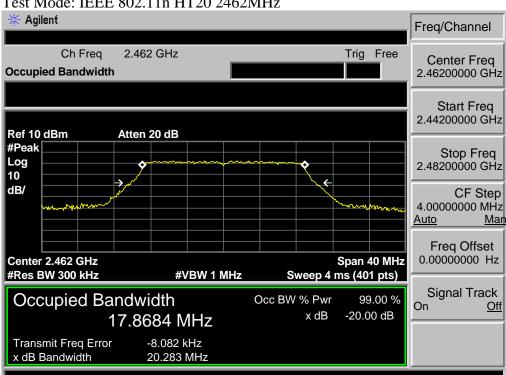


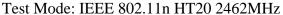


Test Mode: IEEE 802.11n HT20 2437MHz

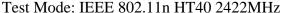


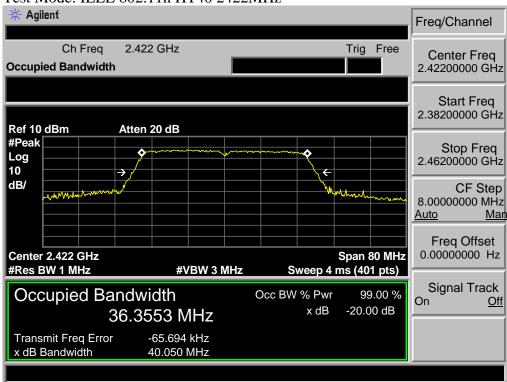




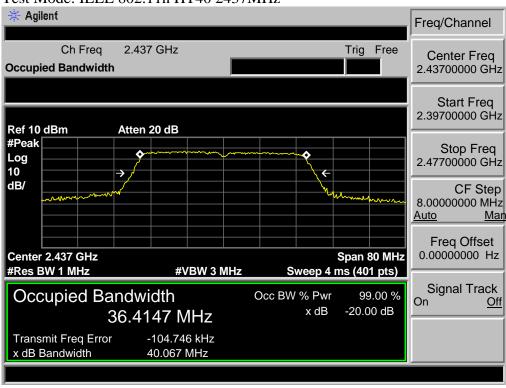




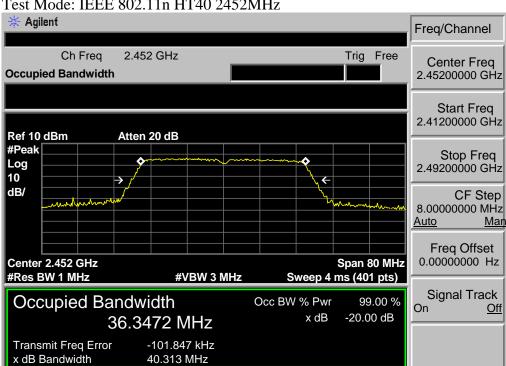


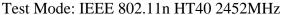


Test Mode: IEEE 802.11n HT40 2437MHz











7 OUTPUT POWER TEST

7.1 Limit

For systems using digital modulation in the 2400—2483.5MHz, The Peak output Power shall not exceed 1W(30dBm)

7.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
 - (1)Set span to at least 1.5 times the OBW.
 - (2)Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
 - (3)Set VBW \geq 3 x RBW.
 - (4)Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
 - (4)Sweep time = auto.
 - (5) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
 - (6)If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable 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 ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".
 - (7)Trace average at least 100 traces in power averaging (i.e., RMS) mode.
 - (8)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.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.



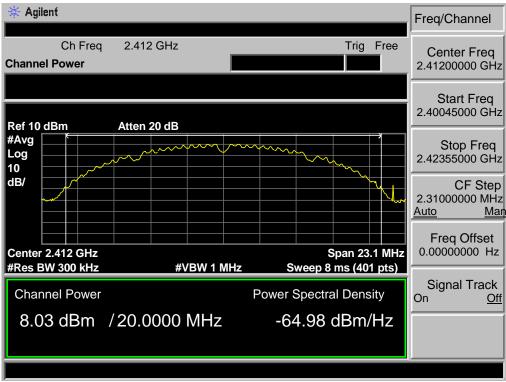
7.3 Test Result

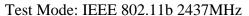
M/N: DP-330			
Test date: 2017-	07-03	Test site: 3m Chamber	Tested by: Seven
		Pass	1
Test Mode	СН	Conducted Power (dBm)	Limit (dBm)
	CH1	8.03	30
IEEE 802.11 b	CH6	8.12	30
	CH11	6.59	30
	CH1	2.99	30
IEEE 802.11 g	CH6	2.21	30
	CH11	0.96	30
TEEE 000 11	CH1	3.48	30
IEEE 802.11 n HT 20	CH6	2.37	30
111 20	CH11	1.27	30
HEEE 002 11	СНЗ	2.20	30
IEEE 802.11 n HT 40	СН6	1.31	30
111 10	CH9	0.97	30

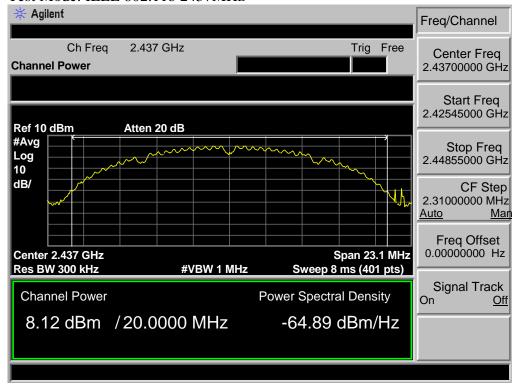


7.4 Test Data

Test Mode: IEEE 802.11b 2412MHz

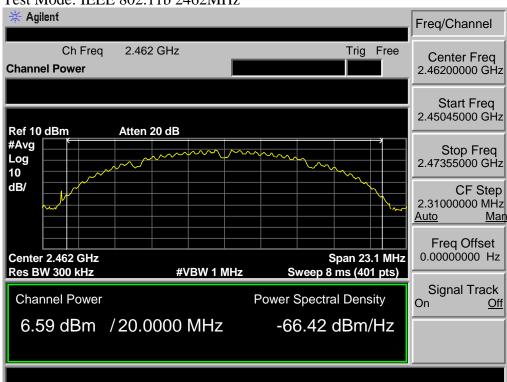






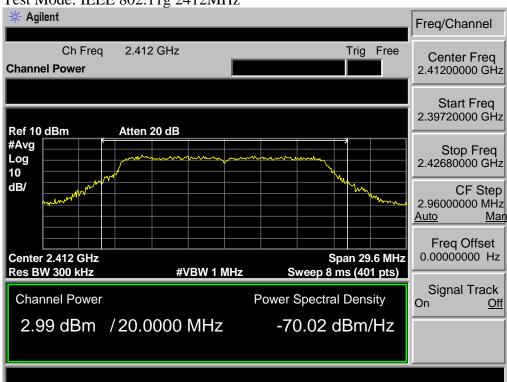




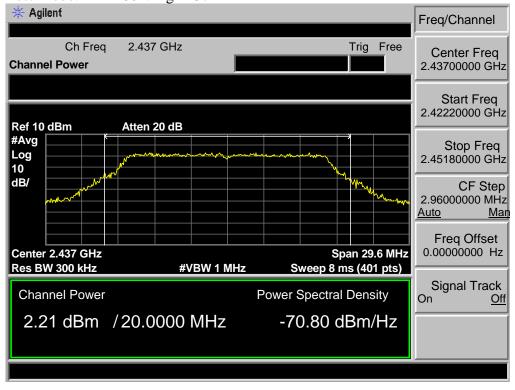




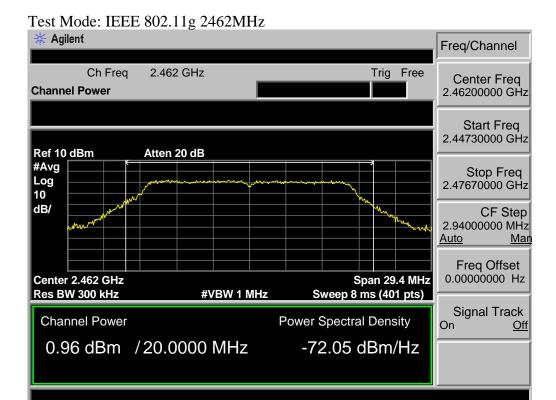
Test Mode: IEEE 802.11g 2412MHz



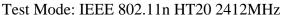
Test Mode: IEEE 802.11g 2437MHz





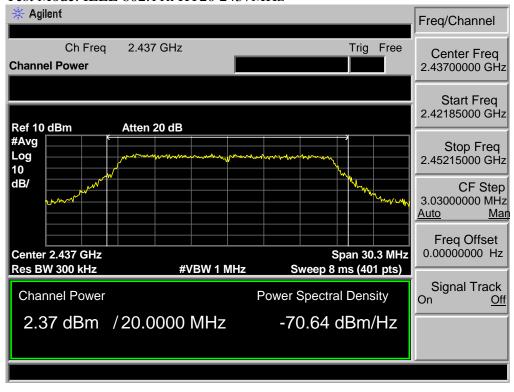




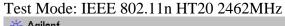


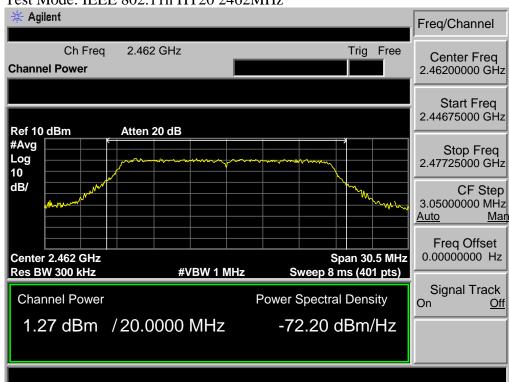


Test Mode: IEEE 802.11n HT20 2437MHz

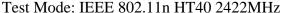


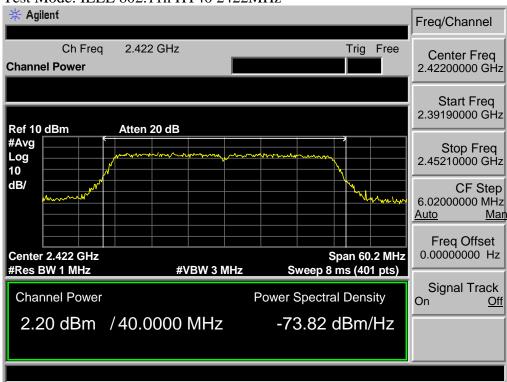




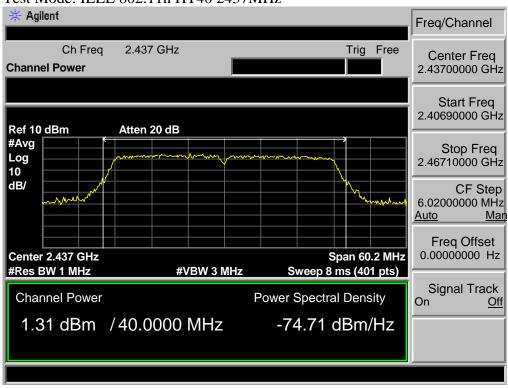




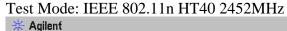


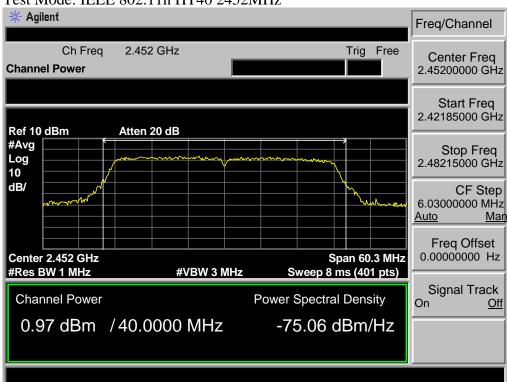


Test Mode: IEEE 802.11n HT40 2437MHz











8 POWER SPECTRAL DENSITY TEST

8.1 Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

8.2 Test Procedure

- 1, The transmitter output (antenna port) was connected to the spectrum analyzer. Connect EUT antenna terminal to the spectrum analyzer with a low loss SMA cable.
- 2, Follow the test procedure as described in KDB 558074
- (1). Set analyzer center frequency to DTS channel center frequency.
- (2). Set the span to 1.5 times the DTS bandwidth.
- (3). Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- (4). Set the VBW \geq 3 RBW.
- (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.



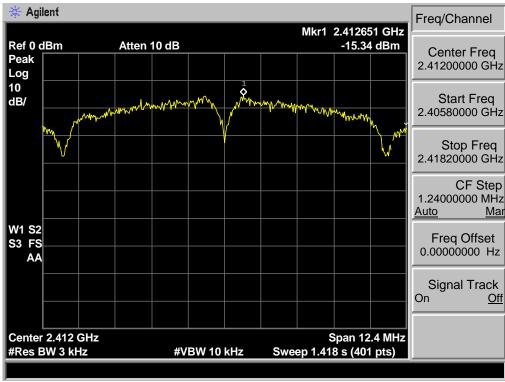
8.3 Test Result

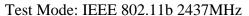
EUT: portable r M/N: DP-330	eccipi anu iai	ber printer	
Test date: 2017-07-03		Test site: 3m Chamber	Tested by: Seven
		Pass	
Test Mode	СН	Power density (dBm/3kHz)	Limit (dBm/3kHz)
IEEE 802.11 b	CH1	-15.34	8
	СН6	-15.90	8
	CH11	-17.90	8
IEEE 802.11 g	CH1	-24.05	8
	СН6	-24.89	8
	CH11	-25.81	8
IEEE 802.11 n HT 20	CH1	-23.59	8
	СН6	-27.88	8
	CH11	-25.60	8
IEEE 802.11 n HT 40	СНЗ	-26.27	8
	СН6	-26.69	8
	CH9	-27.46	8

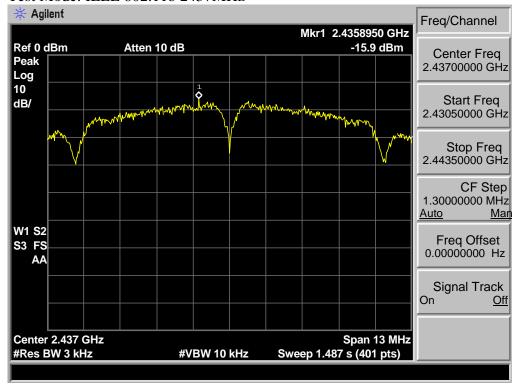


8.4 Test Data

Test Mode: IEEE 802.11b 2412MHz

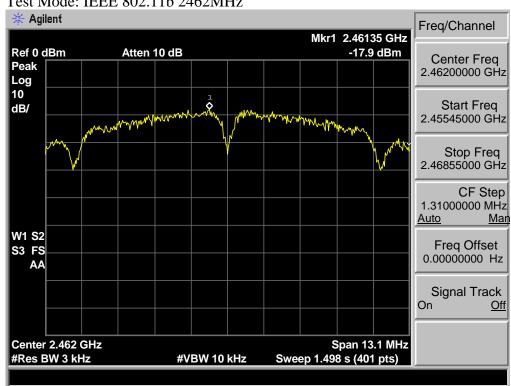






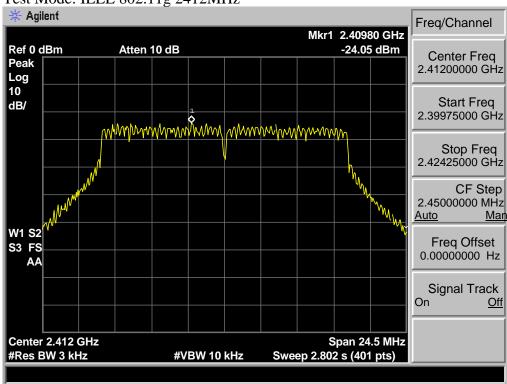


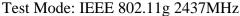


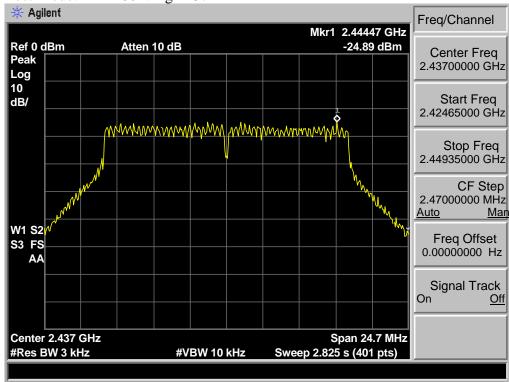




Test Mode: IEEE 802.11g 2412MHz

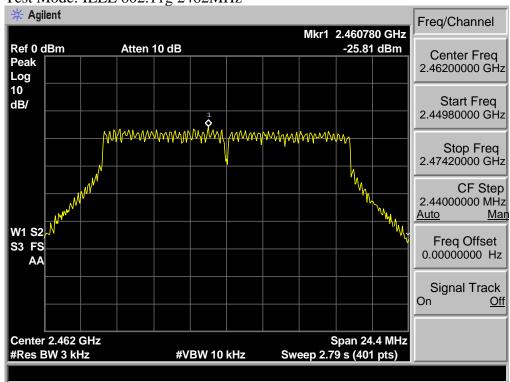




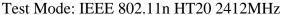


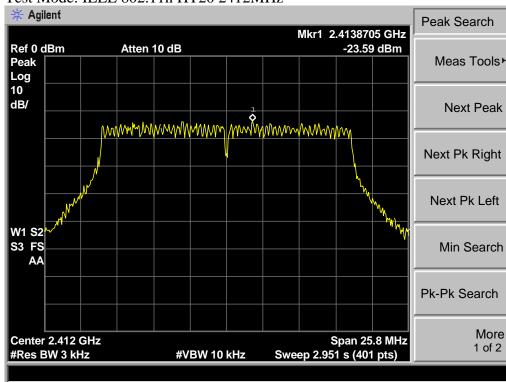




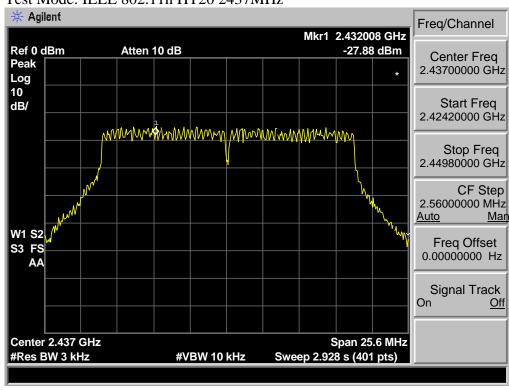






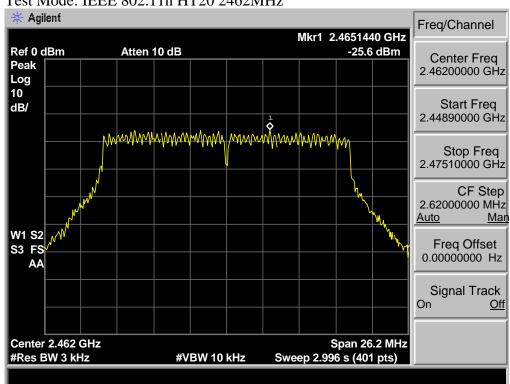


Test Mode: IEEE 802.11n HT20 2437MHz

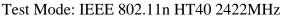


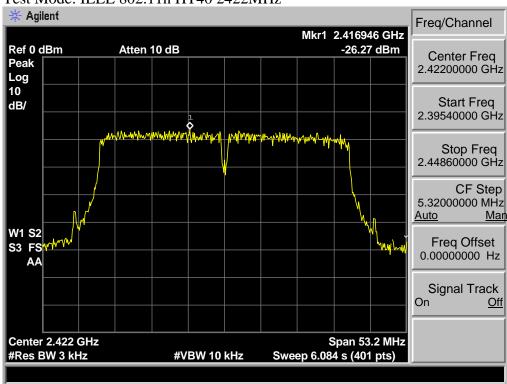


Test Mode: IEEE 802.11n HT20 2462MHz

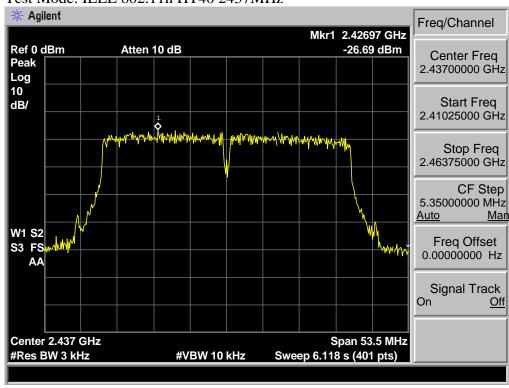




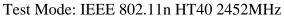


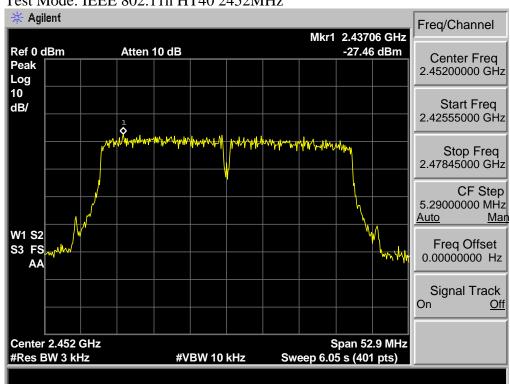


Test Mode: IEEE 802.11n HT40 2437MHz











9 ANTENNA REQUIREMENTS

9.1 Limit

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if 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 6dBi.

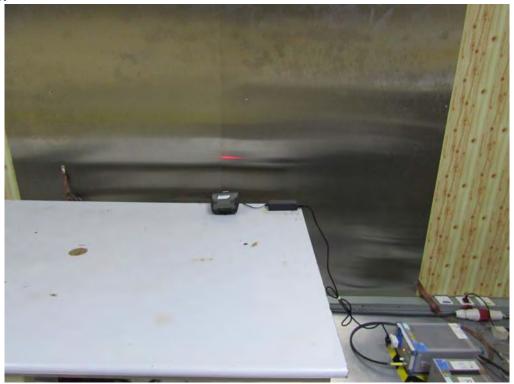
9.2 Result

The antennas used for this product are Internal antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 0.5 dBi.



10 TEST SETUP PHOTO

Conducted Test

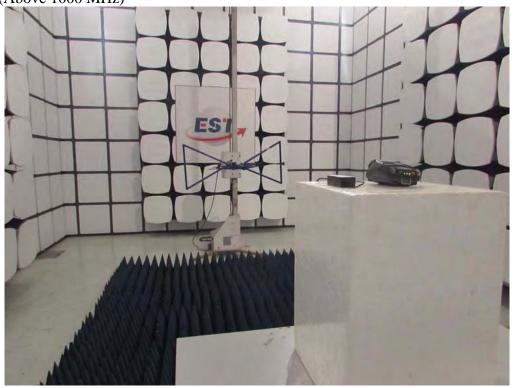




Radiated Test (30-1000 MHz)



Radiated Test (Above 1000 MHz)



11 PHOTOS OF EUT

External Photos M/N: DP-330

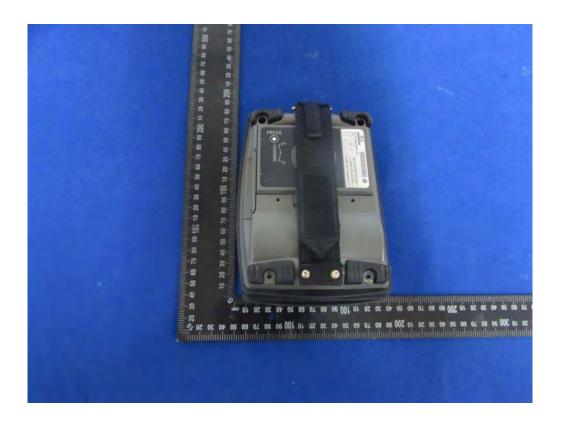






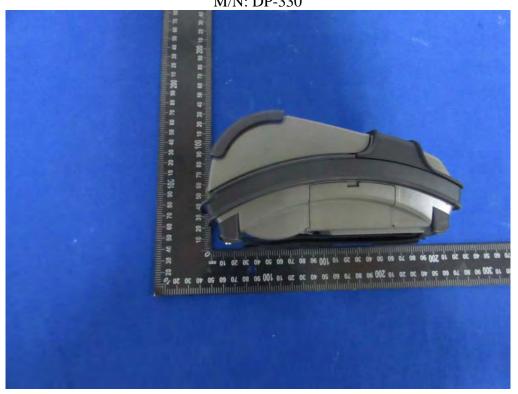
External Photos

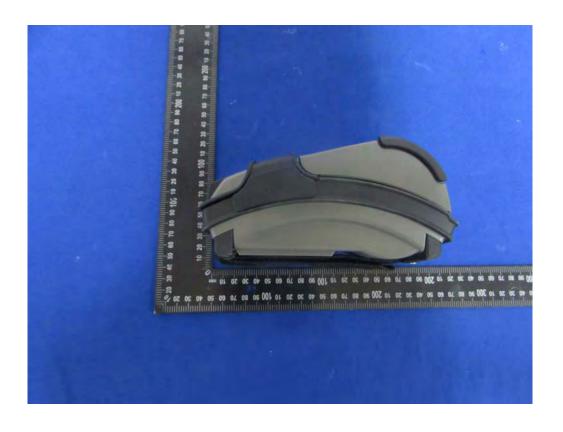






External Photos M/N: DP-330







External Photos M/N: DP-330







External Photos M/N: DP-330



