

Report No.: FR740634-01AC

FCC Test Report

Equipment cnPilot E600 Indoor **Brand Name Cambium Networks**

Model No. cnPilot E600 Indoor

FCC ID Z8H89FT0036

Standard 47 CFR FCC Part 15.247 **Operating Band** 2400 MHz - 2483.5 MHz

Function Point-to-multipoint; Point-to-point

Applicant / **Cambium Networks Inc.**

Manufacturer 3800 Golf Road, Suite 360 Rolling Meadows,

IL 60008, USA

The product sample received on Jun. 23, 2017 and completely tested on Jul. 14, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

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Page No.

Report Version

Issued Date



: 1 of 26

: Rev. 01

: Aug. 08, 2017

SPORTON INTERNATIONAL INC. TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036



FCC Test Report

Table of Contents

Report No.: FR740634-01AC

1	GENERAL DESCRIPTION	5
1.1	Information	5
1.2	Testing Applied Standards	
1.3	Testing Location Information	7
1.4	Measurement Uncertainty	8
2	TEST CONFIGURATION OF EUT	9
2.1	Test Condition	9
2.2	Test Channel Mode	9
2.3	The Worst Case Measurement Configuration	10
2.4	Accessories	11
2.5	Support Equipment	11
2.6	Test Setup Diagram	12
3	TRANSMITTER TEST RESULT	14
3.1	AC Power-line Conducted Emissions	14
3.2	DTS Bandwidth	15
3.3	Maximum Conducted Output Power	16
3.4	Power Spectral Density	18
3.5	Emissions in Non-restricted Frequency Bands	
3.6	Emissions in Restricted Frequency Bands	21
4	TEST EQUIPMENT AND CALIBRATION DATA	25
APPE	ENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPE	ENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPE	ENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPE	ENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPE	ENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPE	ENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPE	ENDIX G. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPE	ENDIX H. TEST PHOTOS	
РНОТ	TOGRAPHS OF EUT V01	

Page No.

Report Version

Issued Date

: 2 of 26

: Rev. 01

: Aug. 08, 2017

Summary of Test Result

	Conformance Test Specifications							
Report Clause	Ref. Std. Clause	Description	Limit	Result				
1.1.2	15.203	Antenna Requirement	FCC 15.203	Complied				
3.1	15.207	AC Power-line Conducted Emissions	FCC 15.207	Complied				
3.2	15.247(a)	DTS Bandwidth	≥500kHz	Complied				
3.3	15.247(b)	Maximum Conducted Output Power	Power [dBm]:30	Complied				
3.4	15.247(e)	Power Spectral Density	PSD [dBm/3kHz]:8	Complied				
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	Non-Restricted Bands: > 30 dBc	Complied				
3.6	15.247(d)	Emissions in Restricted Frequency Bands	Restricted Bands: FCC 15.209	Complied				

SPORTON INTERNATIONAL INC.
TEL: 886-3-3273456
FAX: 886-3-3270973

FCC ID: Z8H89FT0036

Page No. : 3 of 26
Report Version : Rev. 01

Issued Date : Aug. 08, 2017

Revision History

Report No.	Version	Description	Issued Date
FR740634-01AC	Rev. 01	Initial issue of report	Aug. 08, 2017

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 4 of 26
Report Version : Rev. 01
Issued Date : Aug. 08, 2017



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
2	1	-	-	PIFA Antenna	I-PEX	5.28
3	2	-	-	PIFA Antenna	I-PEX	4.08

Note: 1: 802.11 b/g/n used two antennas are for signal transmitting and receiving.(2T2R Spatial Multiplexing MIMO configuration)

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456

FAX: 886-3-3270973

Report Version
Issued Date

FCC ID: Z8H89FT0036

Page No. : 5 of 26
Report Version : Rev. 01
Issued Date : Aug. 08, 2017



FCC Test Report

1.1.3 EUT Information

	Operational Condition							
EU	T Power T	уре	Fro	n AC Adapter				
Bea	amformin	g Function		With beamformi	ng [\boxtimes	Without beamforming	
				-	Type of	EU	JT	
\boxtimes	Stand-alc	ne						
	Combine	d (EUT where	e the	radio part is fully	/ integra	atec	within another device)	
	Combine	d Equipment	- Bra	and Name / Mode	el No.:			
	Plug-in radio (EUT intended for a variety of host systems)							
	Host System - Brand Name / Model No.:							
	Other:							

Report No.: FR740634-01AC

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.992	0.035	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.946	0.241	2.065m	1k
802.11n HT20	0.975	0.11	5.001m	300
802.11n HT40	0.956	0.195	2.429m	1k

 SPORTON INTERNATIONAL INC.
 Page No.
 : 6 of 26

 TEL: 886-3-3273456
 Report Version
 : Rev. 01

 FAX: 886-3-3270973
 Issued Date
 : Aug. 08, 2017

FCC ID: Z8H89FT0036

1.2 Testing Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

Report No.: FR740634-01AC

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- KDB 558074 D01 v04
- KDB 662911 D01 v02r01

1.3 Testing Location Information

	Testing Location						
\boxtimes	HWA YA	ADD :	No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)				
		TEL :	886-3-327-3456 FAX : 886-3-327-0973				
	Test site Designation No. TW1190 with FCC.						
		Tes	st site registered number	IC 4086B-1 with Industry Canada.			
	JHUBEI	ADD :	No.8, Ln. 724, Bo'ai St	, Zhubei City, Hsinchu County, Taiwan (R.O.C.)			
	TEL: 886-3-656-9065 FAX: 886-3-656-9085						
			Test site Designation	on No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Gary	21.5°C / 61%	14/Jul/2017
Radiated	03CH02-HY	Andy	22.2°C / 56%	01/Jul/2017
AC Conduction	CO01-HY	Teddy	24°C / 58%	07/Jul/2017

 SPORTON INTERNATIONAL INC.
 Page No.
 : 7 of 26

 TEL: 886-3-3273456
 Report Version
 : Rev. 01

 FAX: 886-3-3270973
 Issued Date
 : Aug. 08, 2017

FCC ID: Z8H89FT0036

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Report No.: FR740634-01AC

: 8 of 26

: Rev. 01

: Aug. 08, 2017

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	2.1 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	2.6 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	2.9 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%

SPORTON INTERNATIONAL INC. Page No.
TEL: 886-3-3273456 Report Version
FAX: 886-3-3270973 Issued Date

FAX: 886-3-3270973 FCC ID: Z8H89FT0036



2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software

Mode	Power Setting
802.11b_(1Mbps)_2TX	-
2412MHz	20.5
2437MHz	20.5
2462MHz	20
802.11g_(6Mbps)_2TX	-
2412MHz	17
2437MHz	23
2462MHz	15.5
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	16
2437MHz	23
2462MHz	16
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	16
2437MHz	17
2452MHz	15

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No.
Report Version
Issued Date

: 9 of 26 : Rev. 01 : Aug. 08, 2017



2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests			
Tests Item AC power-line conducted emissions Emissions in Non-restricted Frequency Bands			
Condition AC power-line conducted measurement for line and neutral			
Operating Mode Normal Link			
1	WiFi 2.4G & 5G, BT ON, ETH1 : 1Gbps, ETH2 : 1Gbps, AC MODE		

1	The Worst Case Mode for Following Conformance Tests		
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands		
Test Condition	Conducted measurement at transmit chains		

The Worst Case Mode for Following Conformance Tests					
Tests Item	Emissions in Restricted Fro	Emissions in Restricted Frequency Bands			
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.				
Operating Mode	CTX				
1	Adapter Mode				
	X Plane	Y Plane	Z Plane		
Orthogonal Planes of EUT					
Worst Planes of EUT		V			

The Worst Case Mode for Following Conformance Tests			
Simultaneous Transmission Analysis			
Radiated measurement			
Operating Mode Normal Link			
(Y Plane),Bluetooth+WLAN 2.4GHz+ WLAN 5GHz			
(Z Plane),Bluetooth+WLAN 2.4GHz+ WLAN 5GHz			

Refer to Sporton Test Report No.: FA740634-01 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 10 of 26
Report Version : Rev. 01

Report No.: FR740634-01AC

Issued Date

: Aug. 08, 2017

FCC Test Report Report No.: FR740634-01AC

2.4 **Accessories**

Accessories				
	Brand Name	CWT	Model Name	KPL-040F-VI
AC Adapter	Power Rating	I/P: <u>100</u> - <u>240</u> V~ 50/6	0Hz, <u>1.7</u> A, O/P:	<u>12</u> Vdc, <u>3.33</u> A 40W
DC Power Cord		1.16 meter, non-shield	ded cable, with one	e ferrite core

Reminder: Regarding to more detail and other information, please refer to user manual.

2.5 **Support Equipment**

Support Equipment - RF Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	
1	Notebook	DELL	E5410	R33002 / DOC	
2	Adapter for NB	DELL	HA65NM130	R35737 / DOC	
3	Client	-	-	-	
4	Notebook	DELL	E5410	R33002 / DOC	
5	Adapter for NB	DELL	HA65NM130	R35737 / DOC	
6	AC Source	GW	APS-9102	-	

Note: Support equipment No.3 was provided by customer.

	Support Equipment – Radiated Emission					
No.	Equipment	Brand Name	Model Name	FCC ID		
1	Notebook	DELL	E5410	DOC		
2	Notebook	DELL	E5530	DOC		
3	Client	-	-	-		
4	AC Adapter	DELL	LA65NS2-01	-		

Note: Support equipment No.3 was provided by customer.

	Support Equipment – AC Conduction					
No.	Equipment	Brand Name	Model Name	FCC ID		
Α	Notebook	P55G	P55G	DoC		
В	Mouse	Microsoft	1113	DoC		
С	Printer	EPSON	C61	N/A		
Z	Notebook	DELL	Latitude E5430	DoC		
Z	Notebook	DELL	Latitude E5540	DoC		
Z	Notebook	DELL	Latitude E5520	DoC		
Z	Notebook	DELL	Latitude E5430	DoC		
Z	Notebook	DELL	D5500	DoC		

SPORTON INTERNATIONAL INC.

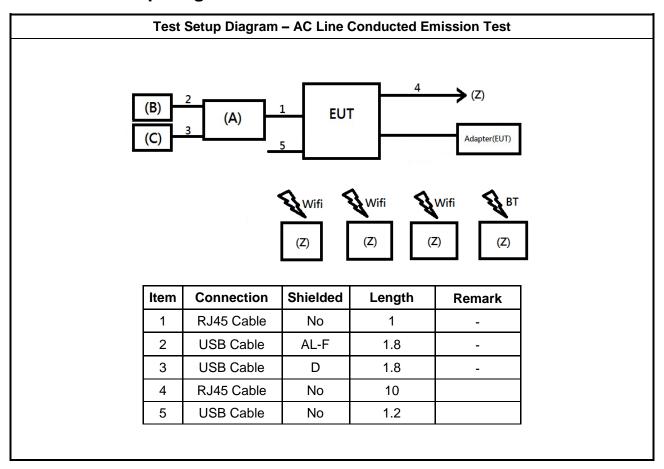
TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 11 of 26 Report Version Issued Date

: Rev. 01 : Aug. 08, 2017



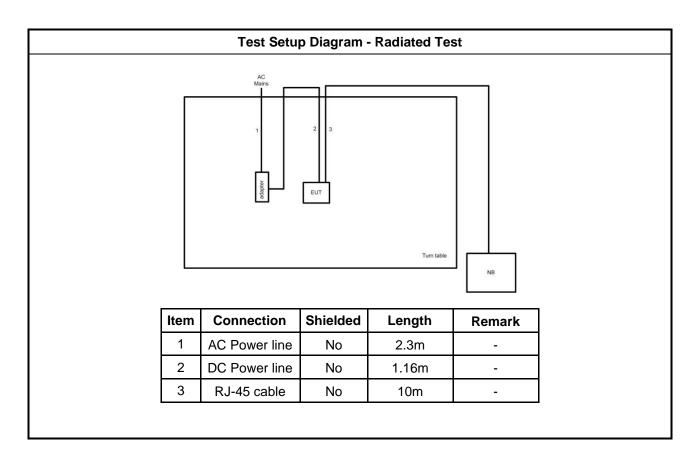
Report No. : FR740634-01AC

2.6 Test Setup Diagram



TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 12 of 26
Report Version : Rev. 01
Issued Date : Aug. 08, 2017

FCC Test Report No.: FR740634-01AC



TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 13 of 26
Report Version : Rev. 01
Issued Date : Aug. 08, 2017



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC POWE	er-line Conducted Emissions L	
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

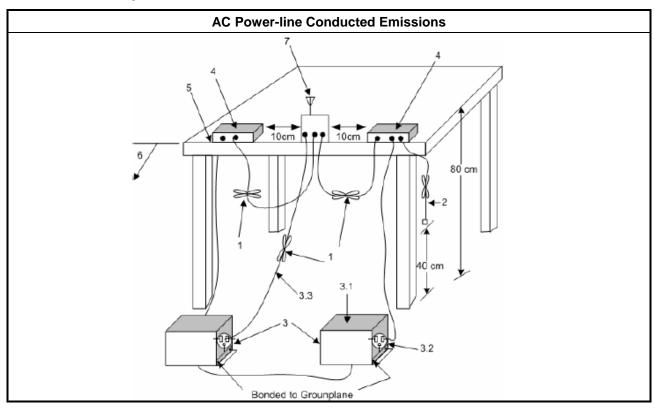
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method	
Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.	

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

SPORTON INTERNATIONAL INC. TEL: 886-3-3273456

FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 14 of 26
Report Version : Rev. 01
Issued Date : Aug. 08, 2017

FCC Test Report

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit					
Systems using digital modulation techniques:					
■ 6 dB bandwidth ≥ 500 kHz.					

3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

	Test Method							
•	For the emission bandwidth shall be measured using one of the options below:							
	Refer as KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.							
	Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.							
	Refer as RSS-Gen, clause 6.6 for for occupied bandwidth testing.							
	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.							

3.2.4 Test Setup

Emission Bandwidth						
Spectrum Analyzer						

3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 15 of 26

Report Version : Rev. 01 Issued Date : Aug. 08, 2017

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Max	Maximum Conducted Output Power Limit							
	•	If $G_{TX} \le 6$ dBi, then $P_{Out} \le 30$ dBm (1 W)						
	■ Point-to-multipoint systems (P2M): If G _{TX} > 6 dBi, then P _{Out} = 30 – (G _{TX} – 6) dBm							
	■ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm							
	Smart antenna system (SAS):							
		- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm						
		- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm						
		- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm						
e.i.r.	p. P	ower Limit:						
•	2400	0-2483.5 MHz Band						
	•	Point-to-multipoint systems (P2M): P _{eirp} ≤ 36 dBm (4 W)						
	•	Point-to-point systems (P2P): $P_{eirp} \le MAX(36, [P_{Out} + G_{TX}]) dBm$						
	•	Smart antenna system (SAS)						
		- Single beam: P _{eirp} ≤ MAX(36, P _{Out} + G _{TX}) dBm						
	- Overlap beam: P _{eirp} ≤ MAX(36, P _{Out} + G _{TX}) dBm							
		- Aggregate power on all beams: $P_{eirp} \le MAX(36, [P_{Out} + G_{TX} + 8]) dBm$						
	 Pout = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi. 							

Report No.: FR740634-01AC

: 16 of 26

: Rev. 01

: Aug. 08, 2017

3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456

FAX: 886-3-3270973

Page No.

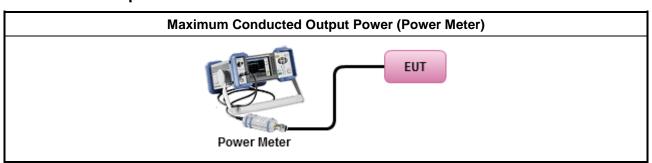
Report Version
Issued Date

FCC ID: Z8H89FT0036

3.3.3 Test Procedures

	Test Method				
•	Maximum Peak Conducted Output Power				
	☐ Refer as KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).				
	Refer as KDB 558074, clause 9.1.2 Option 2 (integrated band power method)				
	☐ Refer as KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)				
•	Maximum Average Conducted Output Power				
	Duty cycle ≥ 98%				
	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).				
	Duty cycle < 98%				
	Refer as KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)				
	RF power meter and average over on/off periods with duty factor or gated trigger				
	Refer as KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average power meter).				
•	For conducted measurement.				
	If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.				
	■ If multiple transmit chains, EIRP calculation could be following as methods: P _{total} = P ₁ + P ₂ + + P _n (calculated in linear unit [mW] and transfer to log unit [dBm]) EIRP _{total} = P _{total} + DG				

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

SPORTON INTERNATIONAL INC. TEL: 886-3-3273456

FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 17 of 26 Report Version : Rev. 01

Issued Date : Aug. 08, 2017

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit

Report No.: FR740634-01AC

Power Spectral Density (PSD) ≤ 8 dBm/3kHz

3.4.2 Measuring Instruments

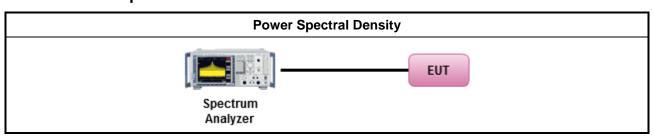
Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method

- Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
 - Refer as KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).
- For conducted measurement.
 - If The EUT supports multiple transmit chains using options given below:
 - Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

 SPORTON INTERNATIONAL INC.
 Page No.
 : 18 of 26

 TEL: 886-3-3273456
 Report Version
 : Rev. 01

 FAX: 886-3-3270973
 Issued Date
 : Aug. 08, 2017

FCC ID: Z8H89FT0036

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit					
RF output power procedure	Limit (dB)				
Peak output power procedure	20				
Average output power procedure	30				

Report No.: FR740634-01AC

- Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.
- Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

3.5.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

I	Test Method
I	Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 19 of 26

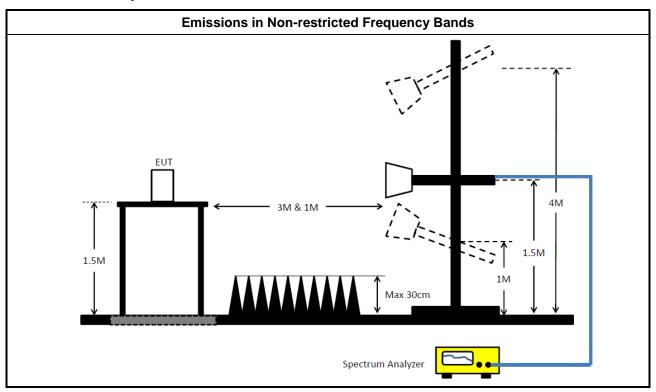
 TEL: 886-3-3273456
 Report Version
 : Rev. 01

 FAX: 886-3-3270973
 Issued Date
 : Aug. 08, 2017

FCC ID: Z8H89FT0036



3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 20 of 26
Report Version : Rev. 01

Issued Date : Aug. 08, 2017



3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit							
Frequency Range (MHz)	Field Strength (uV/m)	Field Strength (dBuV/m)	Measure Distance (m)				
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300				
0.490~1.705 24000/F(kHz)		33.8 - 23	30				
1.705~30.0	30	29	30				
30~88 100		40	3				
88~216	150	43.5	3				
216~960	200	46	3				
Above 960	500	54	3				

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

3.6.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 21 of 26
Report Version : Rev. 01

Issued Date : Aug. 08, 2017



3.6.3 Test Procedures

Test Method

Report No.: FR740634-01AC

- The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
- Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
- For the transmitter unwanted emissions shall be measured using following options below:
 - Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.
 - Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW≥1/T.
 - Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit.
- For the transmitter band-edge emissions shall be measured using following options below:
 - Refer as KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
 - Refer as KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
 - Refer as KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
- For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2.
 - For conducted unwanted emissions into restricted bands (absolute emission limits).
 Devices with multiple transmit chains using options given below:
 - (1) Measure and sum the spectra across the outputs or
 - (2) Measure and add 10 log(N) dB
 - For KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

 SPORTON INTERNATIONAL INC.
 Page No.
 : 22 of 26

 TEL: 886-3-3273456
 Report Version
 : Rev. 01

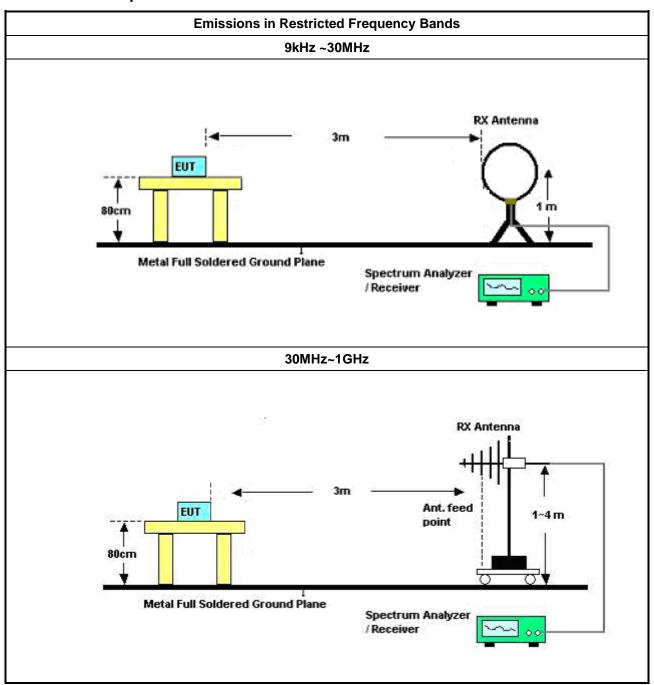
 FAX: 886-3-3270973
 Issued Date
 : Aug. 08, 2017

FCC ID: Z8H89FT0036



Report No. : FR740634-01AC

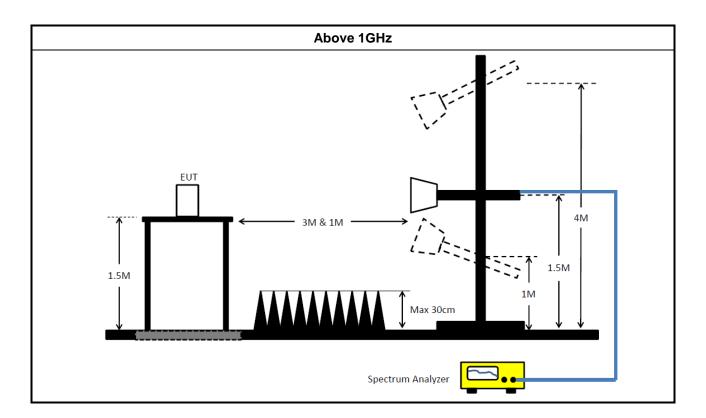
3.6.4 Test Setup



TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 23 of 26 Report Version : Rev. 01

: Aug. 08, 2017

Issued Date



3.6.5 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported. All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 24 of 26 Report Version : Rev. 01

Report No.: FR740634-01AC

Issued Date : Aug. 08, 2017



4 Test Equipment and Calibration Data

Instrument for AC Conduction

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
EMC Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	05/Apr/2017	04/Apr/2018
LISN	R&S	ENV 216	101274	9kHz ~ 30MHz	20/Apr/2017	19/Apr/2018
LISN (Support Unit)	MessTec	NNB-2/16Z	99079	9kHz ~ 30MHz	NCR	NCR
RF Cable-CON	HUBER+SUHN ER	RG213/U	07611832010001	9kHz ~ 30MHz	06/Mar/2017	05/Mar/2018
Impuls Begrenzer Pulse Limiter	R&S	ESH3-Z2	100920	9 kHz ~ 30 MHz	09/Nov/2016	08/Nov/2017
Impedance Stabilization Network	TESEQ	T800	23342	150kHz ~ 230MHz	02/Mar/2017	01/Mar/2018

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSP40	100593	9KHz - 40GHz	26/Oct/2016	25/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz-1GHz	21/Oct/2016	20/Oct/2017
3m Semi Anechoic	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz	12/Dec/2016	11/Dec/2017
Amplifier	Agilent	8447D	2944A11149	100KHz-1.3GHz	29/Jun/2017	28/Jun/2018
Amplifier	Agilent	8449B	3008A02373	1GHz-26.5GHz	02/Sep/2016	01/Sep/2017
Receiver	R&S	ESU-26	100422/026	20Hz ~ 26.5GHz	21/Sep/2016	20/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA9120D 01531	1GHz-18GHz	25/Apr/2017	24/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170154	15GHz-40GHz	06/Feb/2017	05/Feb/2018
Bilog Antenna	SCHAFFNER	CBL6112B	2723	30MHz-1GHz	01/Oct/2016	30/Sep/2017
MicrowavePrea mplifier with6dB Attenuator	EMC INSTRUMENTS	EMC184045B & PE7005-	1840917	18GHz-40GHz	24/Jun/2016	23/Aug/2017
Loop Antenna	TESEQ	HLA 6120	31244	9KHz-30MHz	02/Mar/2017	01/Mar/2018
RF Cable-high	SUHNER	SUCOFLEX1 04	MY34918/4	1GHz ~ 40GHz	26/Jan/2017	25/Jan/2018
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	26/Jan/2017	25/Jan/2018
Receiver	R&S	ESU-26	100422/026	20Hz ~ 26.5GHz	21/Sep/2016	20/Sep/2017

SPORTON INTERNATIONAL INC. Page No. TEL: 886-3-3273456 Report Ve

FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 25 of 26
Report Version : Rev. 01
Issued Date : Aug. 08, 2017



FCC Test Report

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	9kHz~40GHz	28/Nov/2016	27/Nov/2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	27/Oct/2016	26/Oct/2017
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	27/Oct/2016	26/Oct/2017
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHN ER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHN ER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHN ER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017

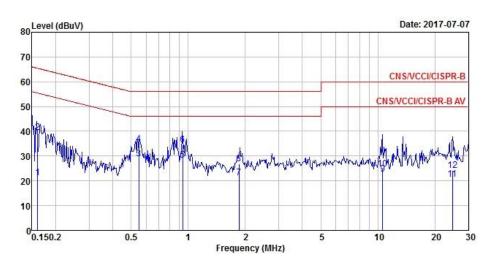
SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 FCC ID: Z8H89FT0036 Page No. : 26 of 26 Report Version : Rev. 01

Report Version : Rev. 01 Issued Date : Aug. 08, 2017



AC Power-line Conducted Emissions Result						
Operating Mode	1	Power Phase Neutral				
Operating Function WiFi 2.4G & 5G, BT ON, ETH1 : 1Gbps, ETH2 : 1Gbps, AC MODE						



				0ver	Limit	Read	LISN	Cable	
		Freq	Level	Limit	Line	Level	Factor	Loss	Remark
		MHz	dBuV	dB	dBuV	dBuV	dB	dB	8
1		0.16	21.26	-34.19	55.45	11.54	9.70	0.02	Average
2		0.16	39.42	-26.03	65.45	29.70	9.70	0.02	QP
3 MA	ΔX	0.55	29.01	-16.99	46.00	19.35	9.64	0.02	Average
4		0.55	34.87	-21.13	56.00	25.21	9.64	0.02	QP
5		0.94	28.24	-17.76	46.00	18.58	9.64	0.02	Average
6		0.94	34.65	-21.35	56.00	24.99	9.64	0.02	QP
7		1.85	21.37	-24.63	46.00	11.66	9.66	0.05	Average
8		1.85	26.74	-29.26	56.00	17.03	9.66	0.05	QP
9		10.61	22.76	-27.24	50.00	12.85	9.74	0.17	Average
10		10.61	24.91	-35.09	60.00	15.00	9.74	0.17	QP
11		24.78	20.79	-29.21	50.00	10.73	9.79	0.27	Average
12		24.78	24.23	-35.77	60.00	14.17	9.79	0.27	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

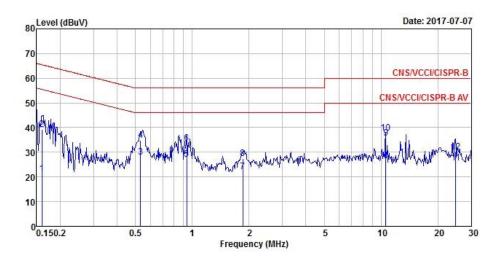
SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 Page No.

: A1 of A2



AC Power-line Conducted Emissions Result								
Operating Mode	Operating Mode 1 Power Phase Line							
Operating Function	Operating Function WiFi 2.4G & 5G, BT ON, ETH1 : 1Gbps, ETH2 : 1Gbps, AC MODE							



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
<u> </u>	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.16	21.39	-34.08	55.47	11.74	9.63	0.02	Average
2	0.16	39.40	-26.07	65.47	29.75	9.63	0.02	QP
3	0.53	28.01	-17.99	46.00	18.36	9.63	0.02	Average
4	0.53	34.74	-21.26	56.00	25.09	9.63	0.02	QP
5	0.94	27.03	-18.97	46.00	17.38	9.63	0.02	Average
6	0.94	33.79	-22.21	56.00	24.14	9.63	0.02	QP
7	1.85	22.16	-23.84	46.00	12.46	9.65	0.05	Average
8	1.85	27.58	-28.42	56.00	17.88	9.65	0.05	QP
9 MAX	10.61	35.58	-14.42	50.00	25.72	9.69	0.17	Average
10	10.61	37.67	-22.33	60.00	27.81	9.69	0.17	QP
11	24.84	25.62	-24.38	50.00	15.74	9.61	0.27	Average
12	24.84	30.11	-29.89	60.00	20.23	9.61	0.27	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

SPORTON INTERNATIONAL INC.

TEL: 886-3-3273456 FAX: 886-3-3270973 Page No.

: A2 of A2

740634-01



Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
802.11b_(1Mbps)_2TX	-	-	-	-	-
2.4-2.4835GHz	9.55M	15.467M	15M5G1D	9.05M	13.418M
802.11g_(6Mbps)_2TX	-	-	-	-	-
2.4-2.4835GHz	16.35M	23.163M	23M2D1D	16.025M	16.392M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-
2.4-2.4835GHz	17.6M	23.888M	23M9D1D	17.55M	17.616M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-
2.4-2.4835GHz	35.25M	36.032M	36M0D1D	33.75M	35.882M

Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth; **Min-N dB** = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

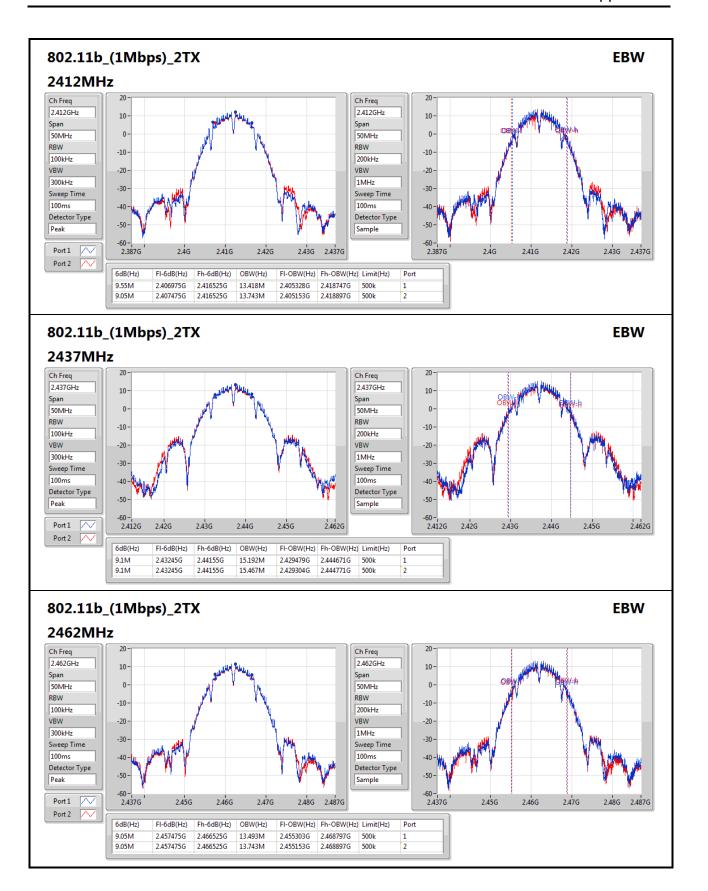
Result

resuit		1	1	1	1	
Mode	Result	Limit	Port 1-N dB	Port 1-OBW	Port 2-N dB	Port 2-OBW
		(Hz)	(Hz)	(Hz)	(Hz)	(Hz)
802.11b_(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	9.55M	13.418M	9.05M	13.743M
2437MHz_TnomVnom	Pass	500k	9.1M	15.192M	9.1M	15.467M
2462MHz_TnomVnom	Pass	500k	9.05M	13.493M	9.05M	13.743M
802.11g_(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.325M	16.392M	16.3M	16.417M
2437MHz_TnomVnom	Pass	500k	16.325M	22.664M	16.025M	23.163M
2462MHz_TnomVnom	Pass	500k	16.35M	16.392M	16.325M	16.392M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	17.55M	17.616M	17.55M	17.616M
2437MHz_TnomVnom	Pass	500k	17.55M	23.163M	17.6M	23.888M
2462MHz_TnomVnom	Pass	500k	17.55M	17.616M	17.55M	17.641M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	33.8M	35.982M	33.9M	35.932M
2437MHz_TnomVnom	Pass	500k	35.25M	36.032M	33.8M	36.032M
2452MHz_TnomVnom	Pass	500k	33.75M	35.932M	35.05M	35.882M

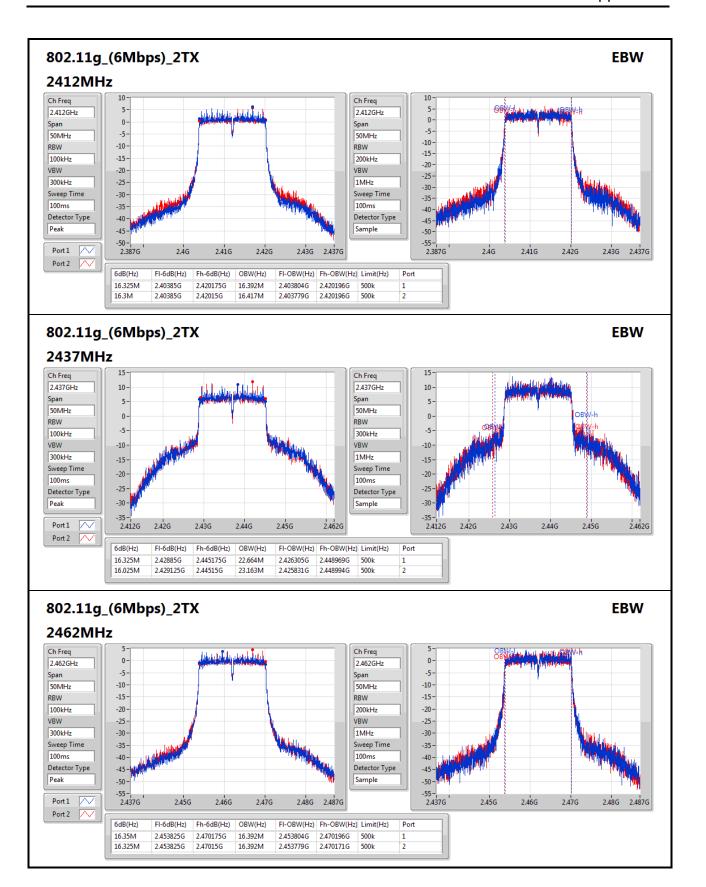
Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

SPORTON INTERNATIONAL INC. Page No. : B1 of B5

TEL: 886-3-327-3456 FAX: 886-3-327-0973 740634-01



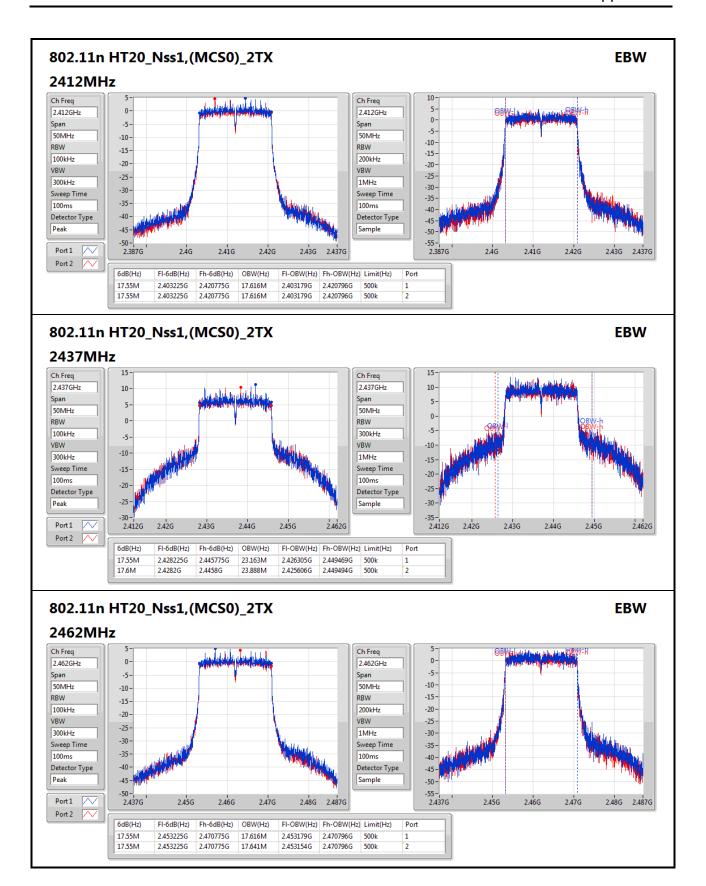
SPORTON INTERNATIONAL INC.



SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : B3 of B5

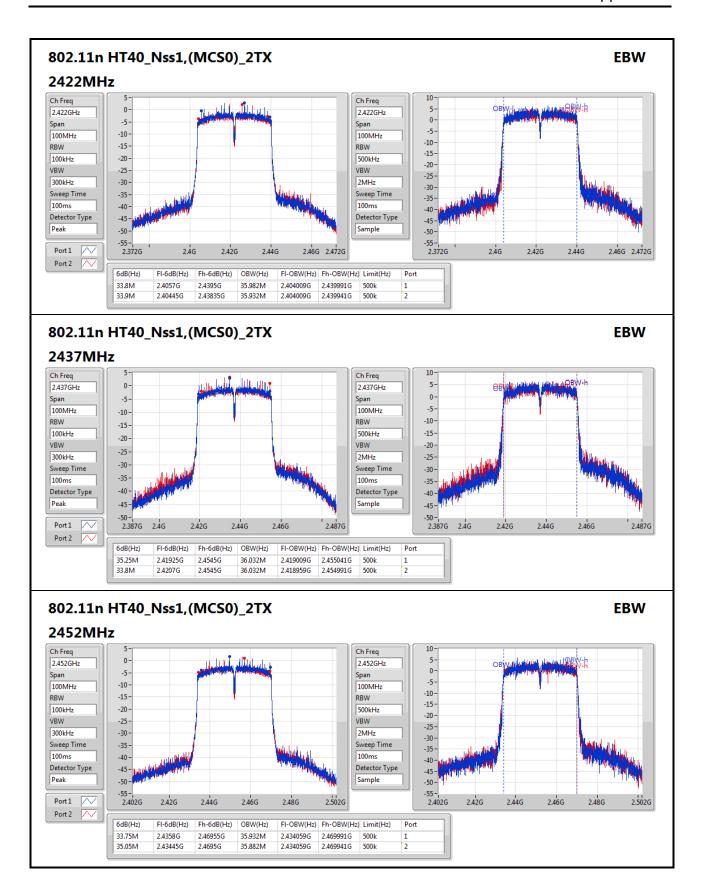
740634-01



SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : B4 of B5

740634-01



SPORTON INTERNATIONAL INC.



AV Power Result Appendix C

Summary

Mode	Total Power	Total Power
	(dBm)	(W)
802.11b_(1Mbps)_2TX	-	-
2.4-2.4835GHz	24.80	0.30200
802.11g_(6Mbps)_2TX	-	-
2.4-2.4835GHz	25.51	0.35563
802.11n HT20_Nss1,(MCS0)_2TX	-	-
2.4-2.4835GHz	25.57	0.36058
802.11n HT40_Nss1,(MCS0)_2TX	-	-
2.4-2.4835GHz	20.42	0.11015

Result

Mode	Result	DG	Port 1	Port 2	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)	(dBm)
802.11b_(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.28	21.24	21.45	24.36	30.00
2437MHz	Pass	5.28	21.54	21.73	24.65	30.00
2462MHz	Pass	5.28	21.70	21.88	24.80	30.00
802.11g_(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.28	17.32	17.25	20.30	30.00
2437MHz	Pass	5.28	22.61	22.38	25.51	30.00
2462MHz	Pass	5.28	16.16	16.04	19.11	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	5.28	16.78	16.38	19.59	30.00
2437MHz	Pass	5.28	22.67	22.45	25.57	30.00
2462MHz	Pass	5.28	16.77	16.41	19.60	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	5.28	16.65	16.32	19.50	30.00
2437MHz	Pass	5.28	17.43	17.38	20.42	30.00
2452MHz	Pass	5.28	15.79	15.60	18.71	30.00

DG = Directional Gain; **Port X** = Port X output power

SPORTON INTERNATIONAL INC. Page No. : C1 of C1



Appendix D **PSD Result**

Summary

Mode	PD
	(dBm/RBW)
802.11b_(1Mbps)_2TX	-
2.4-2.4835GHz	-3.48
802.11g_(6Mbps)_2TX	-
2.4-2.4835GHz	-3.27
802.11n HT20_Nss1,(MCS0)_2TX	-
2.4-2.4835GHz	-2.83
802.11n HT40_Nss1,(MCS0)_2TX	-
2.4-2.4835GHz	-7.24

RBW=3kHz.

Result

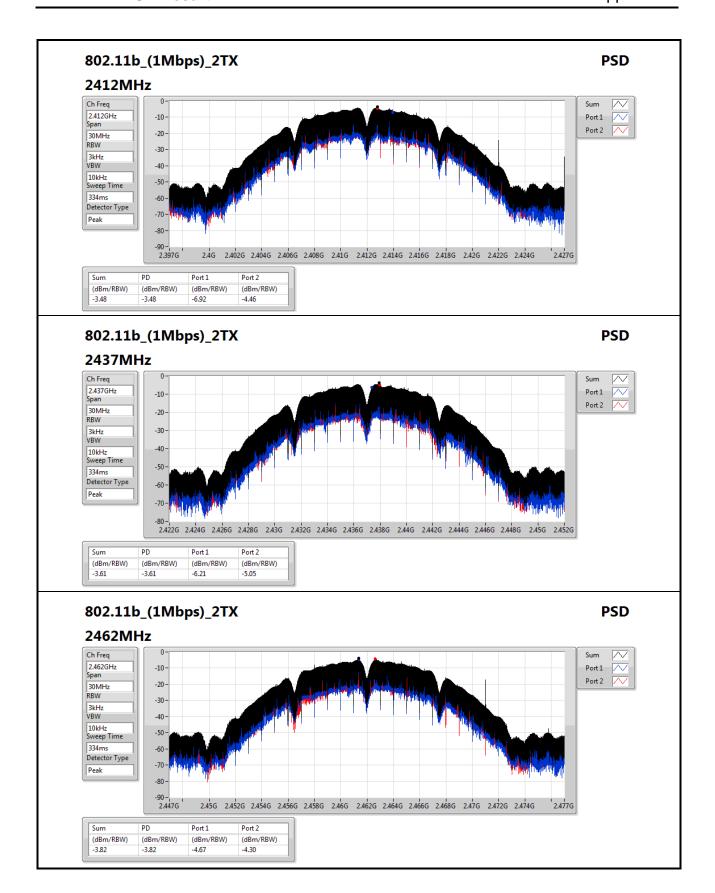
Mode	Result	DG	Port 1	Port 2	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11b_(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	7.71	-6.92	-4.46	-3.48	6.29
2437MHz_TnomVnom	Pass	7.71	-6.21	-5.05	-3.61	6.29
2462MHz_TnomVnom	Pass	7.71	-4.67	-4.30	-3.82	6.29
802.11g_(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	7.71	-11.29	-10.61	-9.20	6.29
2437MHz_TnomVnom	Pass	7.71	-5.12	-6.35	-3.27	6.29
2462MHz_TnomVnom	Pass	7.71	-11.19	-11.92	-9.91	6.29
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	7.71	-11.11	-11.92	-9.67	6.29
2437MHz_TnomVnom	Pass	7.71	-6.05	-5.25	-2.83	6.29
2462MHz_TnomVnom	Pass	7.71	-9.57	-10.96	-9.16	6.29
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	7.71	-13.33	-10.19	-9.16	6.29
2437MHz_TnomVnom	Pass	7.71	-10.48	-10.03	-7.24	6.29
2452MHz_TnomVnom	Pass	7.71	-9.97	-12.38	-8.00	6.29

DG = Directional Gain; RBW=3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X power density;

SPORTON INTERNATIONAL INC. Page No. : D1 of D5

740634-01

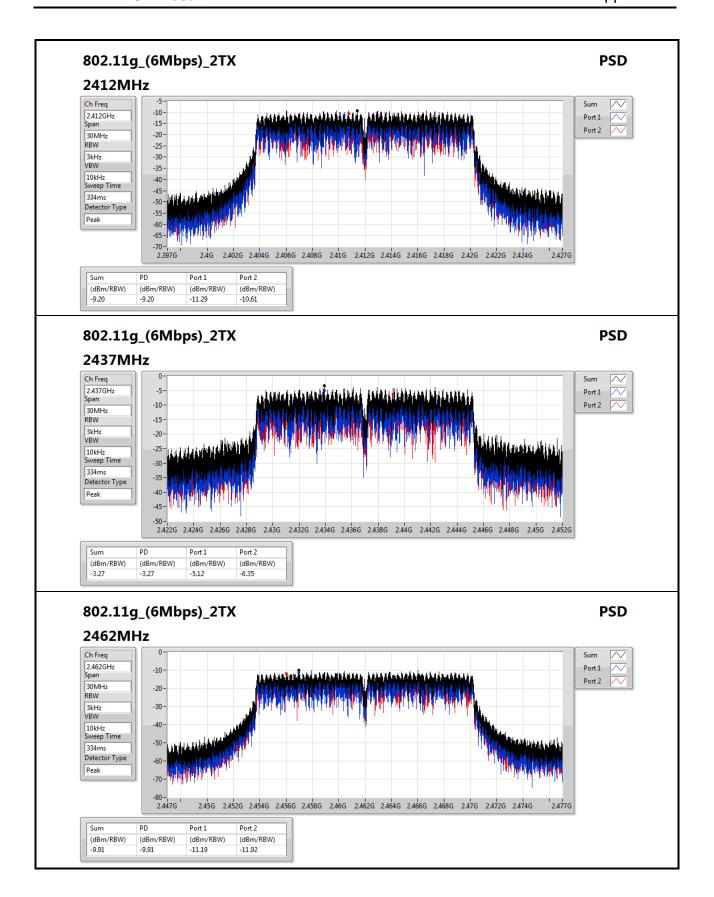
PSD Result Appendix D



SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : D2 of D5

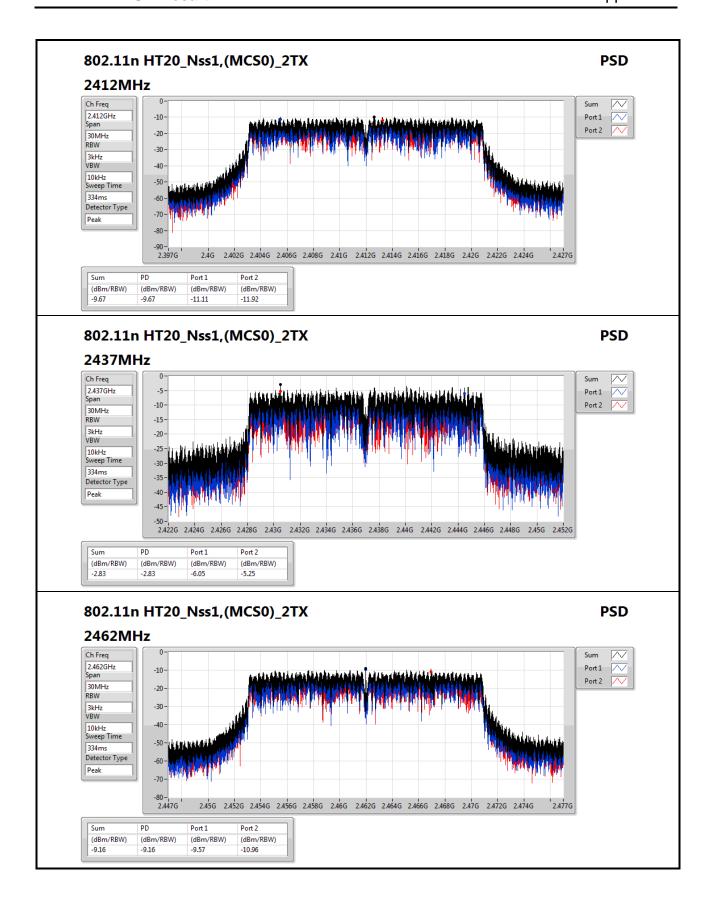
PSD Result Appendix D



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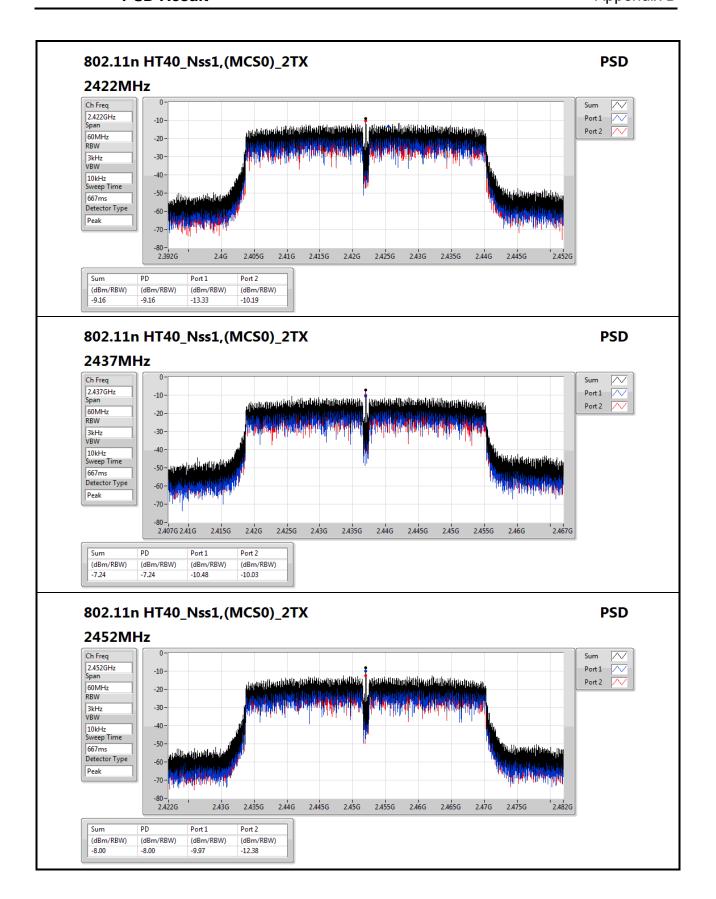
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : D3 of D5

PSD Result Appendix D



SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 PSD Result Appendix D



SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : D5 of D5



CSE Non-restricted Band Result

Appendix E

Summary

Γ	Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
			(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
Γ	802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
Γ	2.4-2.4835GHz	Pass	2.428223G	2.27	-27.73	146.79M	-41.47	2.39968G	-34.15	2.48446G	-41.31	15.122331G	-54.73	2

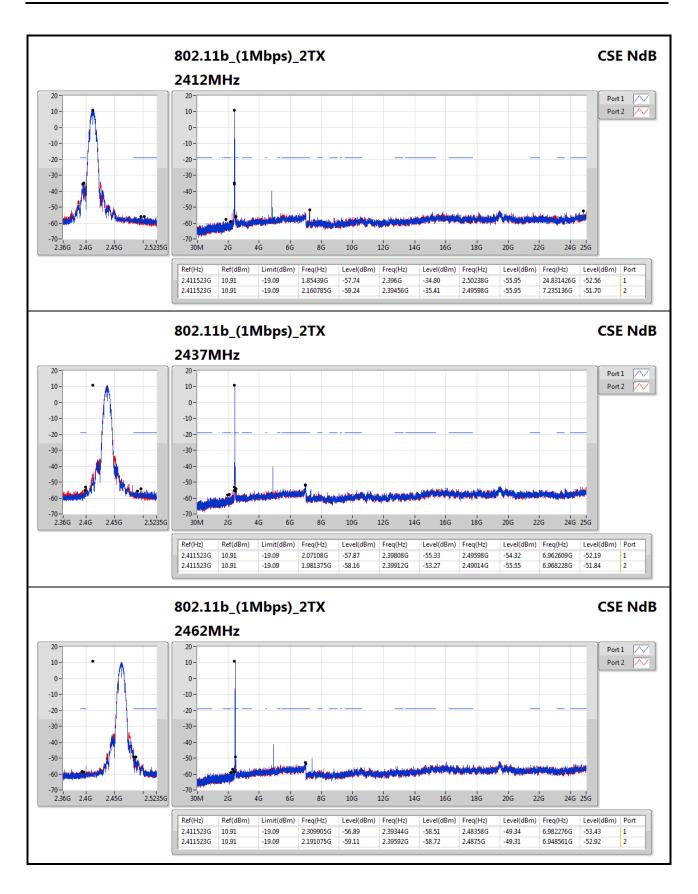
Result

Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
802.11b_(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.411523G	10.91	-19.09	1.85439G	-57.74	2.396G	-34.80	2.50238G	-55.95	24.831426G	-52.56	1
2412MHz_TnomVnom	Pass	2.411523G	10.91	-19.09	2.160785G	-59.24	2.39456G	-35.41	2.49598G	-55.95	7.235136G	-51.70	2
2437MHz_TnomVnom	Pass	2.411523G	10.91	-19.09	2.07108G	-57.87	2.39808G	-55.33	2.49598G	-54.32	6.962609G	-52.19	1
2437MHz_TnomVnom	Pass	2.411523G	10.91	-19.09	1.981375G	-58.16	2.39912G	-53.27	2.49014G	-55.55	6.968228G	-51.84	2
2462MHz_TnomVnom	Pass	2.411523G	10.91	-19.09	2.309905G	-56.89	2.39344G	-58.51	2.48358G	-49.34	6.982276G	-53.43	1
2462MHz_TnomVnom	Pass	2.411523G	10.91	-19.09	2.191075G	-59.11	2.39592G	-58.72	2.4875G	-49.31	6.948561G	-52.92	2
802.11g_(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.431897G	11.02	-18.98	147.665M	-41.17	2.39992G	-31.65	2.49598G	-53.59	15.085054G	-53.80	1
2412MHz_TnomVnom	Pass	2.431897G	11.02	-18.98	147.665M	-41.35	2.39992G	-29.97	2.49598G	-54.45	2.543167G	-51.73	2
2437MHz_TnomVnom	Pass	2.431897G	11.02	-18.98	147.665M	-41.35	2.39832G	-36.30	2.48358G	-42.00	15.079435G	-53.80	1
2437MHz_TnomVnom	Pass	2.431897G	11.02	-18.98	147.665M	-41.60	2.39952G	-37.17	2.4895G	-44.50	24.452135G	-54.32	2
2462MHz_TnomVnom	Pass	2.431897G	11.02	-18.98	147.665M	-41.29	2.39688G	-58.99	2.48414G	-41.72	21.59762G	-55.14	1
2462MHz_TnomVnom	Pass	2.431897G	11.02	-18.98	147.665M	-41.46	2.39992G	-58.48	2.48358G	-43.15	2.557215G	-51.93	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.431897G	10.42	-19.58	147.665M	-41.26	2.39952G	-35.32	2.4959G	-53.25	24.395944G	-53.55	1
2412MHz_TnomVnom	Pass	2.431897G	10.42	-19.58	147.665M	-41.49	2.39976G	-36.75	2.50918G	-58.56	2.557215G	-52.70	2
2437MHz_TnomVnom	Pass	2.431897G	10.42	-19.58	147.665M	-41.26	2.39576G	-36.57	2.4867G	-41.31	24.471802G	-54.76	1
2437MHz_TnomVnom	Pass	2.431897G	10.42	-19.58	147.665M	-41.46	2.39912G	-37.38	2.48486G	-42.81	2.557215G	-54.35	2
2462MHz_TnomVnom	Pass	2.431897G	10.42	-19.58	147.665M	-41.34	2.39424G	-54.53	2.4839G	-39.40	15.096292G	-54.76	1
2462MHz_TnomVnom	Pass	2.431897G	10.42	-19.58	147.665M	-41.52	2.39904G	-55.15	2.48422G	-40.39	2.557215G	-50.51	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.428223G	2.27	-27.73	146.79M	-41.08	2.39968G	-34.67	2.4883G	-51.50	15.116722G	-54.55	1
2422MHz_TnomVnom	Pass	2.428223G	2.27	-27.73	146.79M	-41.36	2.39984G	-36.69	2.55998G	-51.20	15.09709G	-54.82	2
2437MHz_TnomVnom	Pass	2.428223G	2.27	-27.73	146.79M	-41.09	2.39904G	-38.78	2.48382G	-41.67	15.069044G	-55.17	1
2437MHz_TnomVnom	Pass	2.428223G	2.27	-27.73	146.79M	-41.47	2.39968G	-34.15	2.48446G	-41.31	15.122331G	-54.73	2
2452MHz_TnomVnom	Pass	2.428223G	2.27	-27.73	146.79M	-41.25	2.39968G	-48.88	2.4851G	-40.35	15.099894G	-54.30	1
2452MHz_TnomVnom	Pass	2.428223G	2.27	-27.73	146.79M	-41.48	2.39952G	-48.11	2.4883G	-39.69	24.45311G	-55.19	2

SPORTON INTERNATIONAL INC. Page No. : E1 of E5

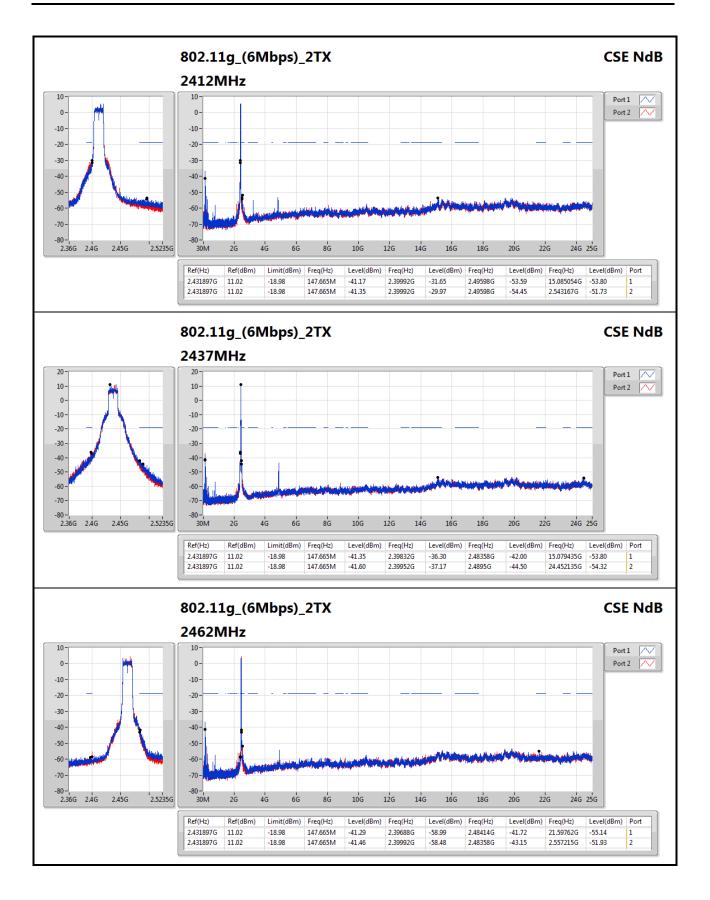
TEL: 886-3-327-3456 FAX: 886-3-327-0973 740634-01





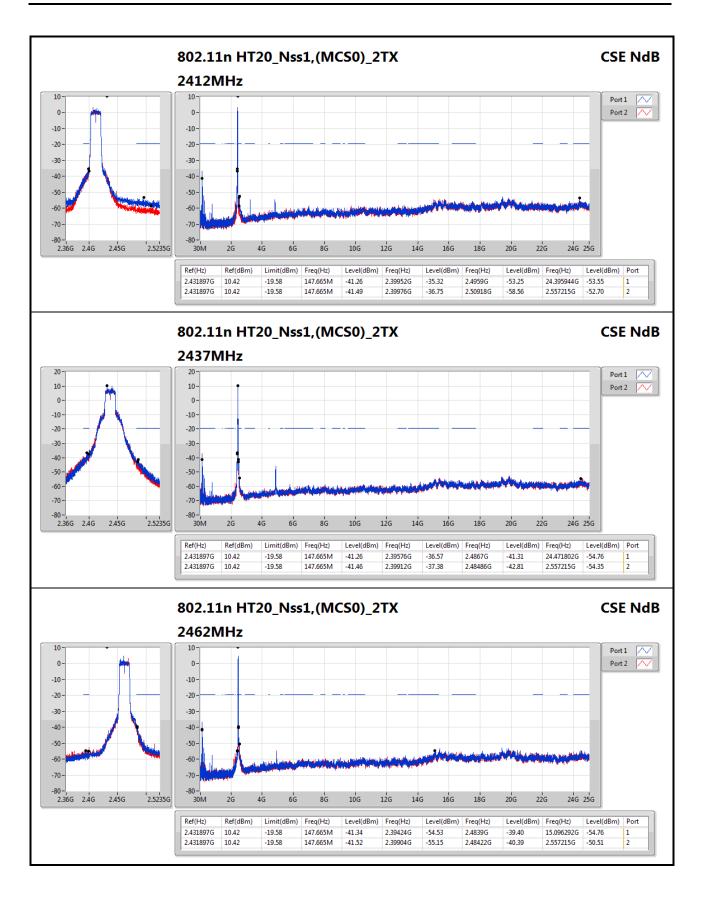
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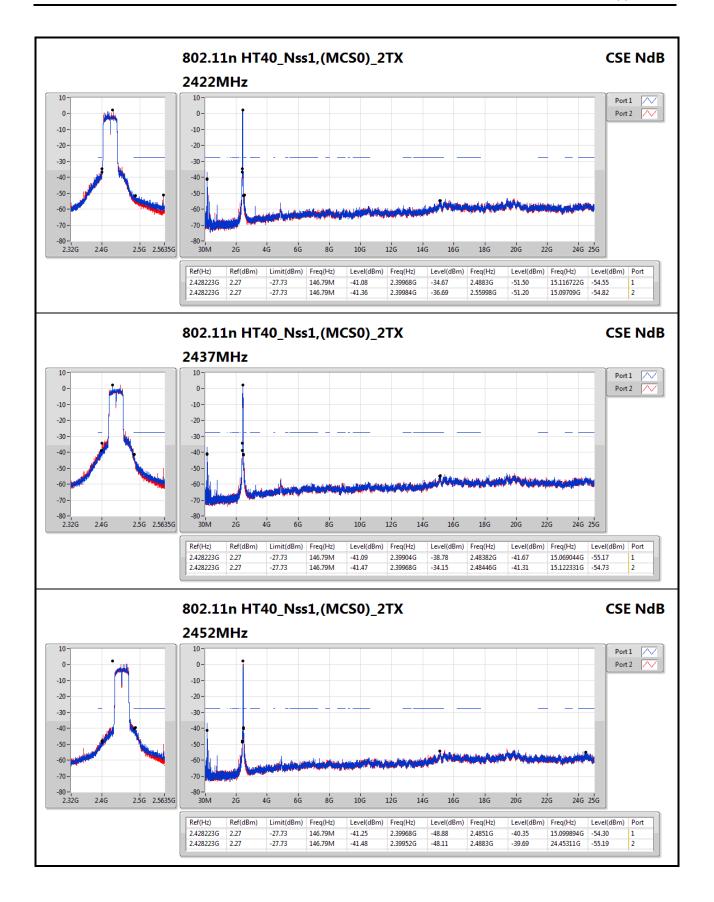
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : E3 of E5





TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : E4 of E5





TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : E5 of E5



RSE TX below 1GHz Result

Appendix F.1

Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	35.82M	35.05	40.00	-4.95	-7.10	3	Vertical	360	1.00	-

SPORTON INTERNATIONAL INC. Page No. : F1 of F4

TEL: 886-3-327-3456 FAX: 886-3-327-0973 740634-01



RSE TX below 1GHz Result

Appendix F.1

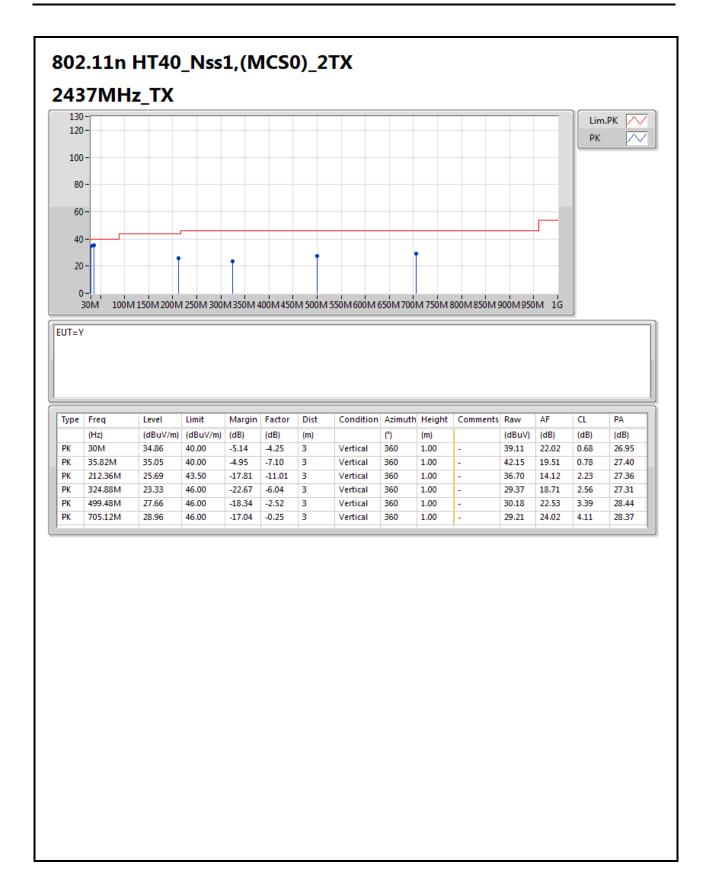
Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30.00003M	33.51	40.00	-6.49	-4.25	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	177.44M	30.54	43.50	-12.96	-11.07	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	212.36M	28.58	43.50	-14.92	-11.01	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	330.7M	26.74	46.00	-19.26	-6.01	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	499.48M	26.94	46.00	-19.06	-2.52	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	592.6M	28.76	46.00	-17.24	-1.16	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	30M	34.86	40.00	-5.14	-4.25	3	Vertical	360	1.00	-
2437MHz	Pass	PK	35.82M	35.05	40.00	-4.95	-7.10	3	Vertical	360	1.00	-
2437MHz	Pass	PK	212.36M	25.69	43.50	-17.81	-11.01	3	Vertical	360	1.00	-
2437MHz	Pass	PK	324.88M	23.33	46.00	-22.67	-6.04	3	Vertical	360	1.00	-
2437MHz	Pass	PK	499.48M	27.66	46.00	-18.34	-2.52	3	Vertical	360	1.00	-
2437MHz	Pass	PK	705.12M	28.96	46.00	-17.04	-0.25	3	Vertical	360	1.00	-

SPORTON INTERNATIONAL INC. Page No. : F2 of F4

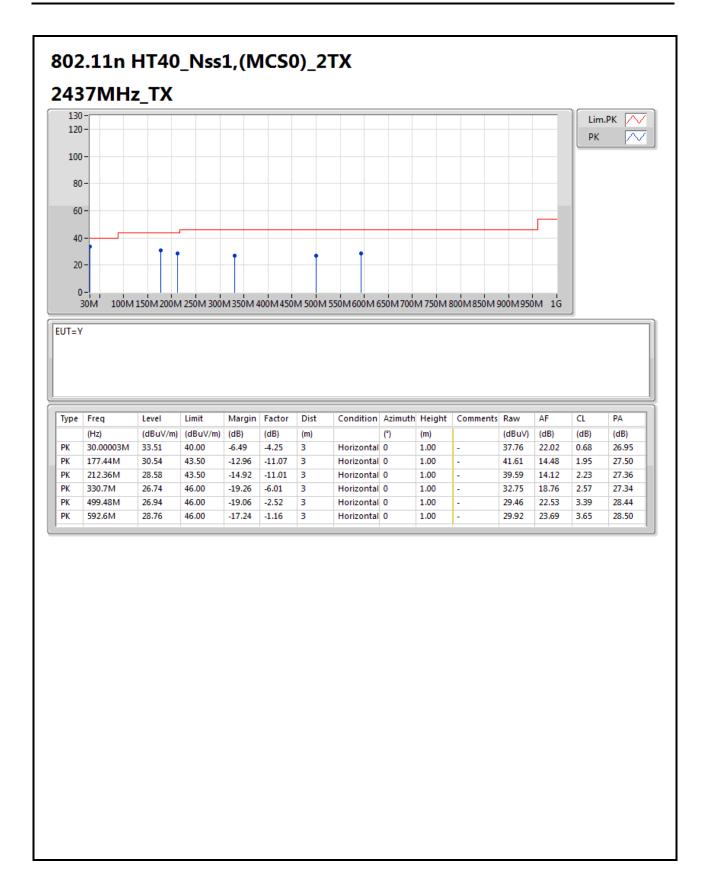
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TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F3 of F4





TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F4 of F4



Appendix F.2

740634-01

Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
802.11g_(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.3898G	53.90	54.00	-0.10	31.44	3	Horizontal	53	1.48	-

SPORTON INTERNATIONAL INC. Page No. : F1 of F53

TEL: 886-3-327-3456 FAX: 886-3-327-0973



Appendix F.2

Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
802.11b_(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3872G	52.73	54.00	-1.27	30.93	3	Horizontal	55	1.01	-
2412MHz	Pass	AV	2.4102G	108.20	Inf	-Inf	31.01	3	Horizontal	55	1.01	-
2412MHz	Pass	AV	4.824G	41.87	54.00	-12.13	6.58	3	Horizontal	87	1.77	-
2412MHz	Pass	PK	2.387G	61.51	74.00	-12.49	30.92	3	Horizontal	55	1.01	-
2412MHz	Pass	PK	2.4106G	110.79	Inf	-Inf	31.01	3	Horizontal	55	1.01	-
2412MHz	Pass	PK	4.824G	49.29	74.00	-24.71	6.58	3	Horizontal	87	1.77	-
2412MHz	Pass	AV	2.3878G	48.68	54.00	-5.32	31.44	3	Vertical	359	3.49	-
2412MHz	Pass	AV	2.4128G	105.16	Inf	-Inf	31.53	3	Vertical	359	3.49	-
2412MHz	Pass	AV	4.824G	53.71	54.00	-0.29	6.58	3	Vertical	174	2.20	-
2412MHz	Pass	PK	2.3868G	60.26	74.00	-13.74	31.43	3	Vertical	359	3.49	-
2412MHz	Pass	PK	2.413G	107.75	Inf	-Inf	31.53	3	Vertical	359	3.49	-
2412MHz	Pass	PK	4.824G	57.00	74.00	-17.00	6.58	3	Vertical	174	2.20	-
2437MHz	Pass	AV	2.3894G	45.14	54.00	-8.86	30.93	3	Horizontal	57	1.17	-
2437MHz	Pass	AV	2.4362G	109.01	Inf	-Inf	31.10	3	Horizontal	57	1.17	-
2437MHz	Pass	AV	2.485G	46.28	54.00	-7.72	31.28	3	Horizontal	57	1.17	-
2437MHz	Pass	AV	4.874G	44.54	54.00	-9.46	6.74	3	Horizontal	79	1.79	-
2437MHz	Pass	PK	2.3766G	58.51	74.00	-15.49	30.89	3	Horizontal	57	1.17	-
2437MHz	Pass	PK	2.4342G	110.47	Inf	-Inf	31.09	3	Horizontal	57	1.17	-
2437MHz	Pass	PK	2.493G	59.61	74.00	-14.39	31.30	3	Horizontal	57	1.17	-
2437MHz	Pass	PK	4.874G	50.66	74.00	-23.34	6.74	3	Horizontal	79	1.79	-
2437MHz	Pass	AV	2.3862G	44.99	54.00	-9.01	30.92	3	Vertical	357	3.34	-
2437MHz	Pass	AV	2.4378G	105.99	Inf	-Inf	31.11	3	Vertical	357	3.34	-
2437MHz	Pass	AV	2.4942G	46.04	54.00	-7.96	31.31	3	Vertical	357	3.34	-
2437MHz	Pass	AV	4.874G	53.20	54.00	-0.80	6.74	3	Vertical	172	3.33	-
2437MHz	Pass	PK	2.3586G	58.51	74.00	-15.49	30.83	3	Vertical	357	3.34	-
2437MHz	Pass	PK	2.4378G	108.61	Inf	-Inf	31.11	3	Vertical	357	3.34	-
2437MHz	Pass	PK	2.485G	58.98	74.00	-15.02	31.28	3	Vertical	357	3.34	-
2437MHz	Pass	PK	4.874G	56.34	74.00	-17.66	6.74	3	Vertical	172	3.33	-
2462MHz	Pass	AV	2.4638G	107.59	Inf	-Inf	31.20	3	Horizontal	48	2.57	-
2462MHz	Pass	AV	2.483502G	53.25	54.00	-0.75	31.27	3	Horizontal	48	2.57	-
2462MHz	Pass	AV	4.924G	43.55	54.00	-10.45	2.48	3	Horizontal	26	1.50	-
2462MHz	Pass	PK	2.4648G	110.14	Inf	-Inf	31.20	3	Horizontal	48	2.57	-
2462MHz	Pass	PK	2.4836G	62.48	74.00	-11.52	31.27	3	Horizontal	48	2.57	-
2462MHz	Pass	PK	4.924G	49.92	74.00	-24.08	2.48	3	Horizontal	26	1.50	-
2462MHz	Pass	AV	2.4612G	104.07	Inf	-Inf	31.19	3	Vertical	356	3.44	-
2462MHz	Pass	AV	2.483502G	48.49	54.00	-5.51	31.27	3	Vertical	356	3.44	-
2462MHz	Pass	AV	4.924G	52.62	54.00	-1.38	2.48	3	Vertical	166	3.33	-
2462MHz	Pass	PK	2.4612G	106.69	Inf	-Inf	31.19	3	Vertical	356	3.44	-
2462MHz	Pass	PK	2.4974G	60.41	74.00	-13.59	31.32	3	Vertical	356	3.44	-
2462MHz	Pass	PK	4.924G	54.97	74.00	-19.03	2.48	3	Vertical	216	1.49	-
802.11g_(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	53.90	54.00	-0.10	31.44	3	Horizontal	53	1.48	-
2412MHz	Pass	AV	2.4148G	99.58	Inf	-Inf	31.53	3	Horizontal	53	1.48	-
2412MHz	Pass	AV	4.824G	31.95	54.00	-22.05	6.48	3	Horizontal	205	1.50	-
2412MHz	Pass	PK	2.3894G	68.57	74.00	-5.43	31.44	3	Horizontal	53	1.48	-
2412MHz	Pass	PK	2.4148G	110.94	Inf	-Inf	31.53	3	Horizontal	53	1.48	-
2412MHz	Pass	PK	4.824G	46.35	74.00	-27.65	6.48	3	Horizontal	205	1.50	-

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F2 of F53



Appendix F.2

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
		,,,,,	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2412MHz	Pass	AV	2.3868G	49.84	54.00	-4.16	31.43	3	Vertical	351	3.21	-
2412MHz	Pass	AV	2.4168G	96.14	Inf	-Inf	31.54	3	Vertical	351	3.21	_
2412MHz	Pass	AV	4.824G	32.18	54.00	-21.82	6.48	3	Vertical	165	1.50	_
2412MHz	Pass	PK	2.3866G	63.93	74.00	-10.07	31.43	3	Vertical	351	3.21	-
2412MHz	Pass	PK	2.4176G	106.57	Inf	-Inf	31.54	3	Vertical	351	3.21	-
2412MHz	Pass	PK	4.824G	45.90	74.00	-28.10	6.48	3	Vertical	165	1.50	-
2437MHz	Pass	AV	2.3894G	51.62	54.00	-2.38	31.44	3	Horizontal	53	2.45	-
2437MHz	Pass	AV	2.439G	105.54	Inf	-Inf	31.62	3	Horizontal	53	2.45	-
2437MHz	Pass	AV	2.483502G	53.63	54.00	-0.37	31.78	3	Horizontal	53	2.45	_
2437MHz	Pass	AV	4.874G	37.70	54.00	-16.30	6.61	3	Horizontal	202	1.49	_
2437MHz	Pass	PK	2.3886G	67.08	74.00	-6.92	31.44	3	Horizontal	53	2.45	_
2437MHz	Pass	PK	2.439G	116.57	Inf	-Inf	31.62	3	Horizontal	53	2.45	_
2437MHz	Pass	PK	2.4842G	68.08	74.00	-5.92	31.78	3	Horizontal	53	2.45	-
2437MHz	Pass	PK		51.28	74.00	-22.72		3				-
2437MHz		AV	4.874G 2.3878G	49.75	54.00	-4.25	6.61 31.44	3	Horizontal Vertical	202 19	1.49 3.02	-
2437MHz	Pass	AV	2.3878G 2.4334G	102.54	54.00 Inf	-4.25 -Inf	31.44	3	Vertical	19	3.02	-
2437MHz 2437MHz	Pass Pass	AV	2.483502G	52.01	54.00	-Int -1.99	31.78	3	Vertical	19	3.02	-
2437MHz	Pass	AV	4.874G	38.79	54.00	-15.21	6.61	3	Vertical	225	1.40	-
2437MHz		PK	2.3882G	65.32		-8.68		3			3.02	-
	Pass				74.00		31.44		Vertical	19		-
2437MHz	Pass	PK	2.4338G	113.61	Inf	-Inf	31.60	3	Vertical	19	3.02	-
2437MHz	Pass	PK	2.4842G	66.36	74.00	-7.64	31.78	3	Vertical	19	3.02	-
2437MHz	Pass	PK	4.874G	52.33	74.00	-21.67	6.61	3	Vertical	225	1.40	-
2462MHz	Pass	AV	2.4598G	99.97	Inf	-Inf	31.70	3	Horizontal	52	1.02	-
2462MHz	Pass	AV	2.484G	53.89	54.00	-0.11	31.78	3	Horizontal	52	1.02	-
2462MHz	Pass	AV	4.924G	32.13	54.00	-21.87	6.73	3	Horizontal	212	1.50	-
2462MHz	Pass	PK	2.4646G	111.34	Inf	-Inf	31.71	3	Horizontal	52	1.02	-
2462MHz	Pass	PK	2.484G	70.65	74.00	-3.35	31.78	3	Horizontal	52	1.02	-
2462MHz	Pass	PK	4.924G	46.83	74.00	-27.17	6.73	3	Horizontal	212	1.50	-
2462MHz	Pass	AV	2.4684G	96.42	Inf	-Inf	31.73	3	Vertical	19	3.29	-
2462MHz	Pass	AV	2.483502G	52.38	54.00	-1.62	31.78	3	Vertical	19	3.29	-
2462MHz	Pass	AV	4.924G	32.63	54.00	-21.37	6.73	3	Vertical	164	2.04	-
2462MHz	Pass	PK	2.4676G	107.20	Inf	-Inf	31.72	3	Vertical	19	3.29	-
2462MHz	Pass	PK	2.483502G	68.65	74.00	-5.35	31.78	3	Vertical	19	3.29	-
2462MHz	Pass	PK	4.924G	46.81	74.00	-27.19	6.73	3	Vertical	164	2.04	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3898G	53.81	54.00	-0.19	31.44	3	Horizontal	65	1.02	-
2412MHz	Pass	AV	2.4066G	99.33	Inf	-Inf	31.50	3	Horizontal	65	1.02	-
2412MHz	Pass	AV	4.824G	31.89	54.00	-22.11	6.48	3	Horizontal	195	1.50	-
2412MHz	Pass	PK	2.3892G	69.61	74.00	-4.39	31.44	3	Horizontal	65	1.02	-
2412MHz	Pass	PK	2.4056G	110.56	Inf	-Inf	31.50	3	Horizontal	65	1.02	-
2412MHz	Pass	PK	4.824G	46.90	74.00	-27.10	6.48	3	Horizontal	195	1.50	-
2412MHz	Pass	AV	2.39G	50.35	54.00	-3.65	31.45	3	Vertical	357	3.49	-
2412MHz	Pass	AV	2.4136G	95.64	Inf	-Inf	31.53	3	Vertical	357	3.49	-
2412MHz	Pass	AV	4.824G	32.12	54.00	-21.88	6.48	3	Vertical	167	2.85	-
2412MHz	Pass	PK	2.3892G	64.85	74.00	-9.15	31.44	3	Vertical	357	3.49	-
2412MHz	Pass	PK	2.4136G	107.39	Inf	-Inf	31.53	3	Vertical	357	3.49	-
2412MHz	Pass	PK	4.824G	46.24	74.00	-27.76	6.48	3	Vertical	167	2.85	-
2437MHz	Pass	AV	2.389998G	52.82	54.00	-1.18	31.44	3	Horizontal	306	1.03	-
2437MHz	Pass	AV	2.4314G	105.45	Inf	-Inf	31.59	3	Horizontal	306	1.03	-

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F3 of F53



Appendix F.2

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2437MHz	Pass	AV	2.4854G	53.79	54.00	-0.21	31.79	3	Horizontal	306	1.03	-
2437MHz	Pass	AV	4.874G	36.96	54.00	-17.04	6.61	3	Horizontal	202	1.85	-
2437MHz	Pass	PK	2.3886G	68.59	74.00	-5.41	31.44	3	Horizontal	306	1.03	-
2437MHz	Pass	PK	2.4306G	116.20	Inf	-Inf	31.59	3	Horizontal	306	1.03	-
2437MHz	Pass	PK	2.4862G	72.93	74.00	-1.07	31.79	3	Horizontal	306	1.03	-
2437MHz	Pass	PK	4.874G	51.80	74.00	-22.20	6.61	3	Horizontal	202	1.85	-
2437MHz	Pass	AV	2.389998G	49.56	54.00	-4.44	31.44	3	Vertical	354	3.26	-
2437MHz	Pass	AV	2.4354G	101.86	Inf	-Inf	31.61	3	Vertical	354	3.26	-
2437MHz	Pass	AV	2.4906G	50.43	54.00	-3.57	31.81	3	Vertical	354	3.26	-
2437MHz	Pass	AV	4.874G	38.59	54.00	-15.41	6.61	3	Vertical	226	1.39	-
2437MHz	Pass	PK	2.389G	64.34	74.00	-9.66	31.44	3	Vertical	354	3.26	-
2437MHz	Pass	PK	2.4362G	113.00	Inf	-Inf	31.61	3	Vertical	354	3.26	-
2437MHz	Pass	PK	2.4858G	65.21	74.00	-8.79	31.79	3	Vertical	354	3.26	-
2437MHz	Pass	PK	4.874G	53.57	74.00	-20.43	6.61	3	Vertical	226	1.39	-
2462MHz	Pass	AV	2.4702G	99.25	Inf	-Inf	31.73	3	Horizontal	50	1.23	-
2462MHz	Pass	AV	2.483502G	53.06	54.00	-0.94	31.78	3	Horizontal	50	1.23	-
2462MHz	Pass	AV	4.924G	32.20	54.00	-21.80	6.73	3	Horizontal	247	1.50	-
2462MHz	Pass	PK	2.4696G	110.74	Inf	-Inf	31.73	3	Horizontal	50	1.23	-
2462MHz	Pass	PK	2.4838G	68.79	74.00	-5.21	31.78	3	Horizontal	50	1.23	-
2462MHz	Pass	PK	4.924G	46.10	74.00	-27.90	6.73	3	Horizontal	247	1.50	-
2462MHz	Pass	AV	2.4594G	96.33	Inf	-Inf	31.69	3	Vertical	355	3.47	_
2462MHz	Pass	AV	2.483502G	51.91	54.00	-2.09	31.78	3	Vertical	355	3.47	_
2462MHz	Pass	AV	4.924G	32.35	54.00	-21.65	6.73	3	Vertical	209	1.50	_
2462MHz	Pass	PK	2.4604G	107.07	Inf	-21.00 -Inf	31.70	3	Vertical	355	3.47	_
2462MHz	Pass	PK	2.483502G	68.57	74.00	-5.43	31.78	3	Vertical	355	3.47	_
2462MHz	Pass	PK	4.924G	46.94	74.00	-27.06	6.73	3	Vertical	209	1.50	_
802.11n HT40_Nss1,(MCS0)_2TX		-	4.3240	-	-	-21.00	0.73	-	vertical	-	1.50	-
2422MHz	Pass	AV	2.39G	53.75	54.00	-0.25	31.45	3	Horizontal	60	1.01	-
2422MHz	Pass	AV	2.4164G	97.22	Inf	-Inf	31.54	3	Horizontal	60	1.01	_
2422MHz	Pass	AV	2.4964G	49.07	54.00	-4.93	31.83	3	Horizontal	60	1.01	_
2422MHz	Pass	AV	4.844G	32.03	54.00	-21.97	6.53	3	Horizontal	316	1.50	-
2422MHz	Pass	PK	2.39G	70.01	74.00	-3.99	31.45	3	Horizontal	60	1.01	-
2422MHz	Pass	PK	2.4176G	107.71	Inf	-5.55 -Inf	31.54	3	Horizontal	60	1.01	-
2422MHz		PK	2.4176G 2.4896G	62.84	74.00		31.80	3	Horizontal	60	1.01	-
2422MHz	Pass Pass	PK	4.844G	47.13	74.00	-11.16 -26.87	6.53	3		316	1.50	-
2422MHz 2422MHz	Pass	AV	4.844G 2.386G	50.76	74.00 54.00	-3.24	31.43	3	Horizontal Vertical	353	3.26	-
2422MHz	Pass	AV	2.300G 2.42G	93.17	54.00 Inf	-3.24 -Inf	31.43	3	Vertical	353	3.26	-
2422MHz	Pass	AV	2.42G 2.4836G	48.07	54.00	-5.93	31.78	3	Vertical	353	3.26	-
2422MHz	Pass	AV	4.844G	32.19	54.00	-21.81	6.53	3	Vertical	168	2.31	-
2422MHz 2422MHz	Pass	PK	4.844G 2.3856G	68.00	74.00	-6.00	31.43	3	Vertical	353	3.26	-
2422MHz	Pass	PK	2.3030G 2.4192G	103.01	74.00 Inf	-6.00 -Inf	31.43	3	Vertical	353	3.26	
2422MHz	Pass	PK	2.4192G 2.4968G	61.76	74.00	-12.24	31.83	3	Vertical	353	3.26	-
2422MHz	Pass	PK	4.844G	45.92	74.00	-12.24	6.53	3	Vertical	168	2.31	-
												-
2437MHz	Pass	AV	2.389998G	53.18	54.00	-0.82	31.44	3	Horizontal	66	1.02	-
2437MHz	Pass	AV	2.4306G	98.17	Inf	-Inf	31.59	3	Horizontal	66	1.02	-
2437MHz	Pass	AV	2.4862G	52.99	54.00	-1.01	31.79	3	Horizontal	66	1.02	-
2437MHz	Pass	AV	4.874G	32.14	54.00	-21.86	6.61	3	Horizontal	360	1.50	-
2437MHz	Pass	PK	2.389G	66.42	74.00	-7.58	31.44	3	Horizontal	66	1.02	-
2437MHz	Pass	PK	2.4294G	107.90	Inf	-Inf	31.59	3	Horizontal	66	1.02	-

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TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F4 of F53



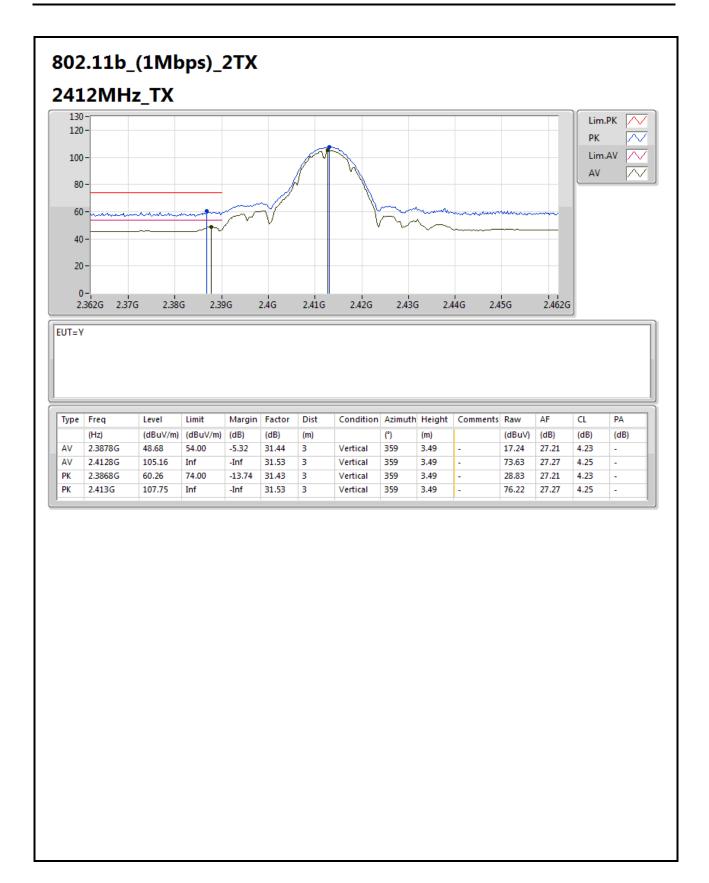
Appendix F.2

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2437MHz	Pass	PK	2.4842G	67.28	74.00	-6.72	31.78	3	Horizontal	66	1.02	-
2437MHz	Pass	PK	4.874G	45.71	74.00	-28.29	6.61	3	Horizontal	360	1.50	-
2437MHz	Pass	AV	2.3782G	48.58	54.00	-5.42	31.40	3	Vertical	2	3.37	-
2437MHz	Pass	AV	2.4386G	94.28	Inf	-Inf	31.62	3	Vertical	2	3.37	-
2437MHz	Pass	AV	2.483502G	51.25	54.00	-2.75	31.78	3	Vertical	2	3.37	-
2437MHz	Pass	AV	4.874G	32.31	54.00	-21.69	6.61	3	Vertical	0	1.50	-
2437MHz	Pass	PK	2.3814G	61.35	74.00	-12.65	31.41	3	Vertical	2	3.37	-
2437MHz	Pass	PK	2.4394G	103.98	Inf	-Inf	31.62	3	Vertical	2	3.37	-
2437MHz	Pass	PK	2.483502G	65.19	74.00	-8.81	31.78	3	Vertical	2	3.37	-
2437MHz	Pass	PK	4.874G	46.30	74.00	-27.70	6.61	3	Vertical	0	1.50	-
2452MHz	Pass	AV	2.388G	47.12	54.00	-6.88	31.44	3	Horizontal	52	2.09	-
2452MHz	Pass	AV	2.4588G	96.62	Inf	-Inf	31.69	3	Horizontal	52	2.09	-
2452MHz	Pass	AV	2.4836G	53.66	54.00	-0.34	31.78	3	Horizontal	52	2.09	-
2452MHz	Pass	AV	4.904G	32.30	54.00	-21.70	6.68	3	Horizontal	360	1.50	-
2452MHz	Pass	PK	2.3596G	60.71	74.00	-13.29	31.34	3	Horizontal	52	2.09	-
2452MHz	Pass	PK	2.4616G	106.50	Inf	-Inf	31.70	3	Horizontal	52	2.09	-
2452MHz	Pass	PK	2.4884G	73.05	74.00	-0.95	31.80	3	Horizontal	52	2.09	-
2452MHz	Pass	PK	4.904G	45.80	74.00	-28.20	6.68	3	Horizontal	360	1.50	-
2452MHz	Pass	AV	2.3892G	47.10	54.00	-6.90	31.44	3	Vertical	356	3.49	-
2452MHz	Pass	AV	2.45G	92.37	Inf	-Inf	31.66	3	Vertical	356	3.49	-
2452MHz	Pass	AV	2.4868G	52.26	54.00	-1.74	31.79	3	Vertical	356	3.49	-
2452MHz	Pass	AV	4.904G	32.25	54.00	-21.75	6.68	3	Vertical	0	1.50	-
2452MHz	Pass	PK	2.378G	61.03	74.00	-12.97	31.40	3	Vertical	356	3.49	-
2452MHz	Pass	PK	2.4492G	102.55	Inf	-Inf	31.66	3	Vertical	356	3.49	-
2452MHz	Pass	PK	2.488G	69.65	74.00	-4.35	31.80	3	Vertical	356	3.49	-
2452MHz	Pass	PK	4.904G	46.65	74.00	-27.35	6.68	3	Vertical	0	1.50	-

SPORTON INTERNATIONAL INC. Page No. : F5 of F53

TEL: 886-3-327-3456 FAX: 886-3-327-0973





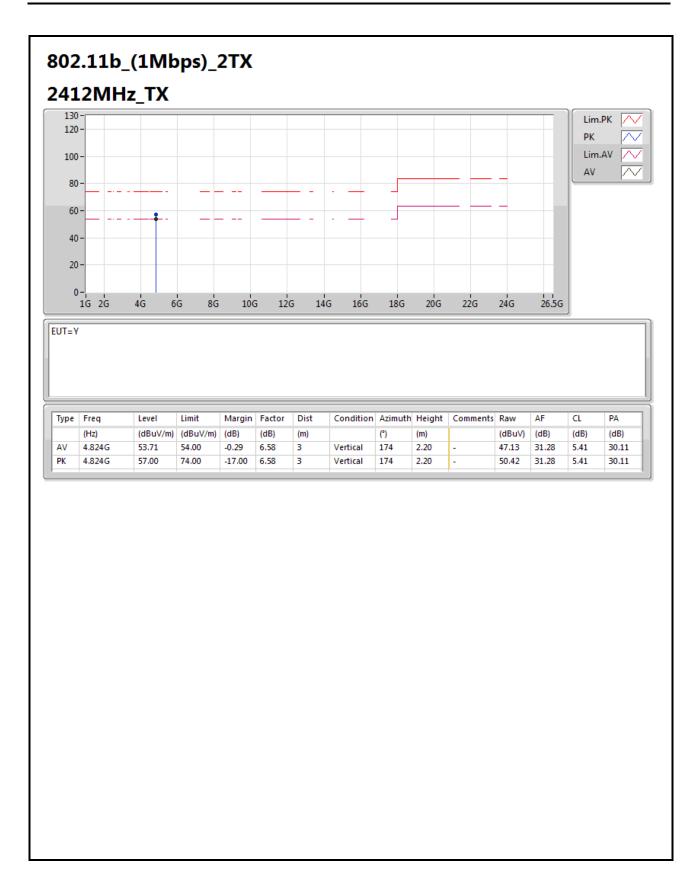
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F6 of F53





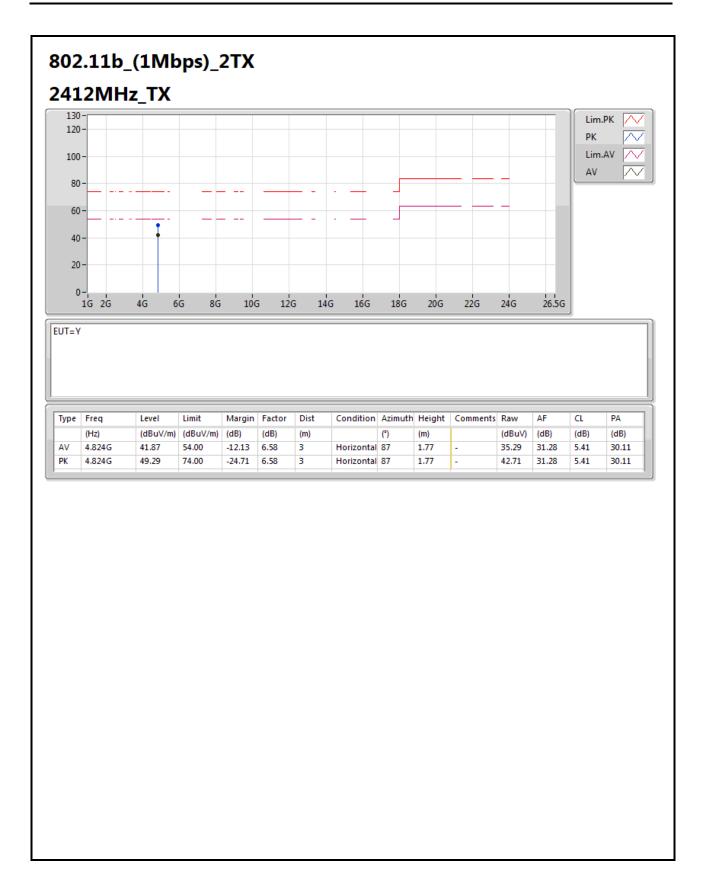
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F7 of F53





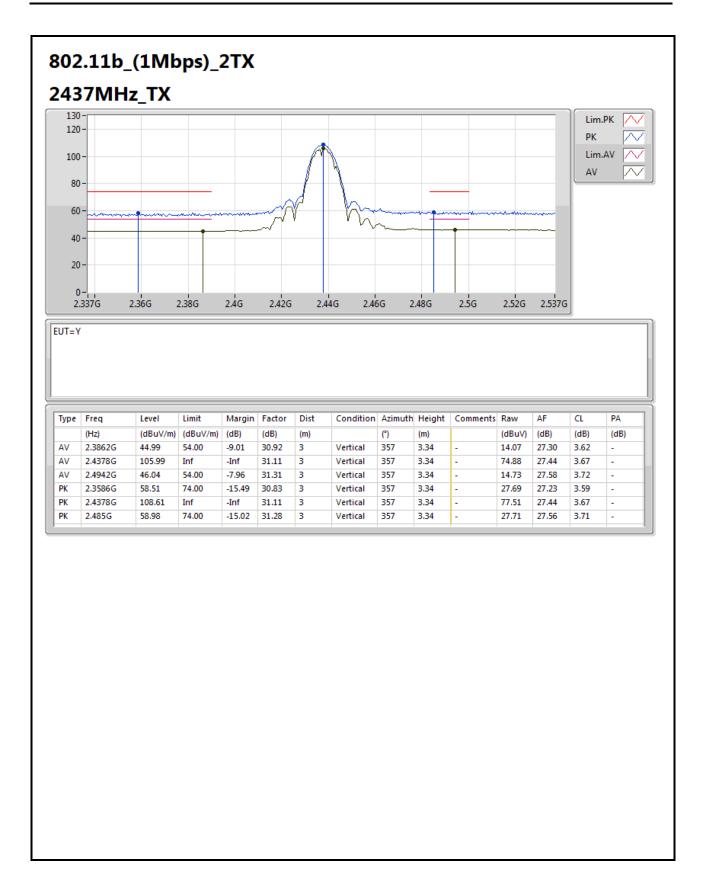
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F8 of F53





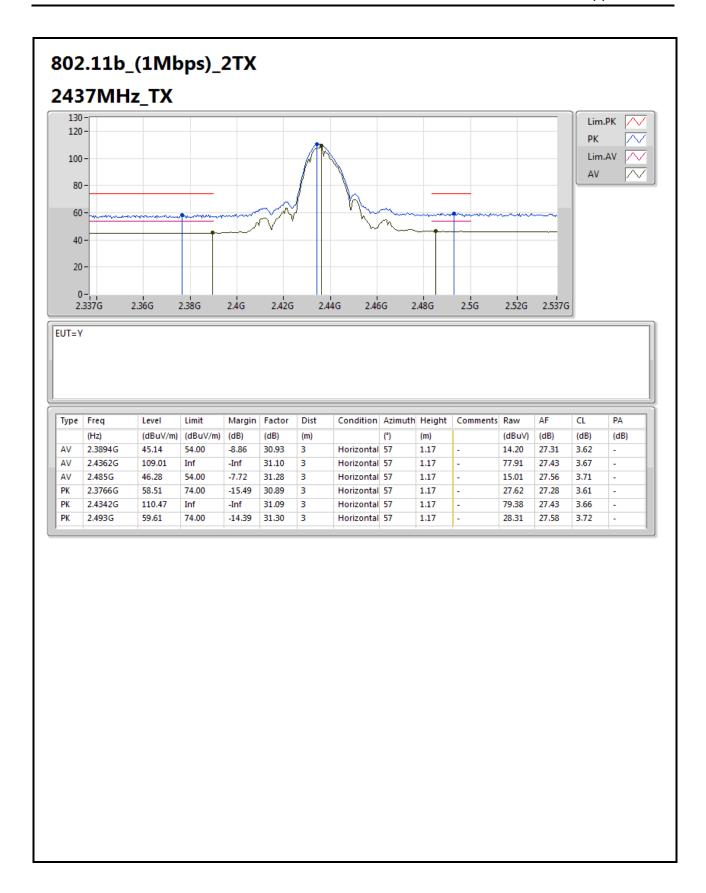
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F9 of F53





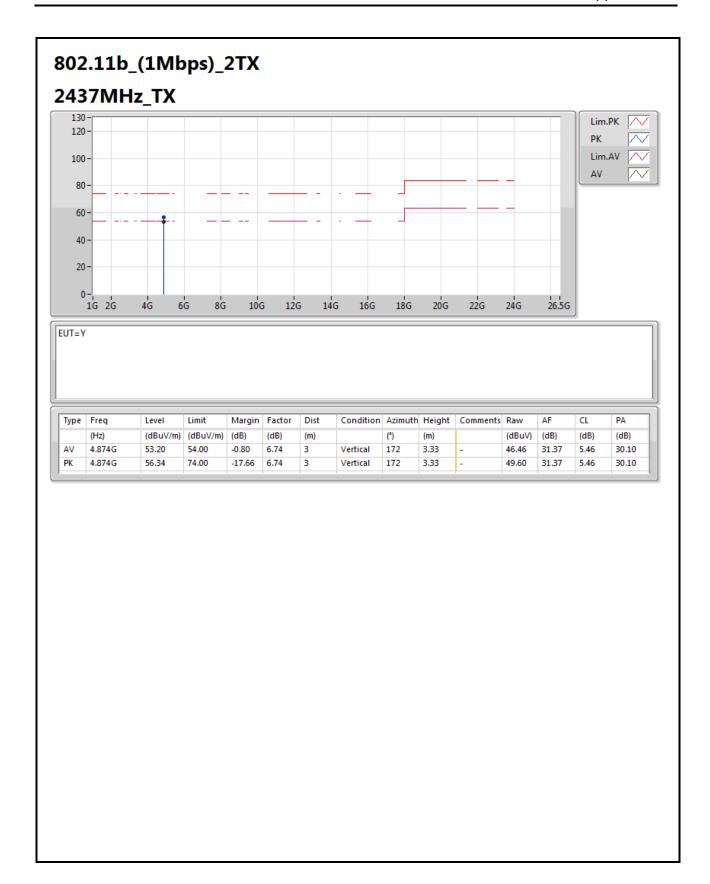
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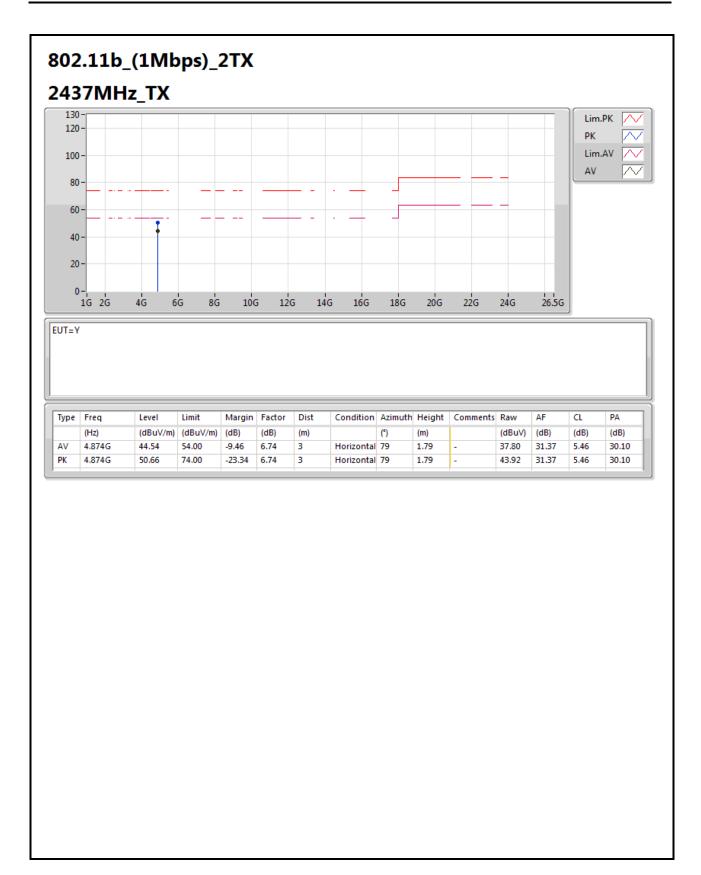
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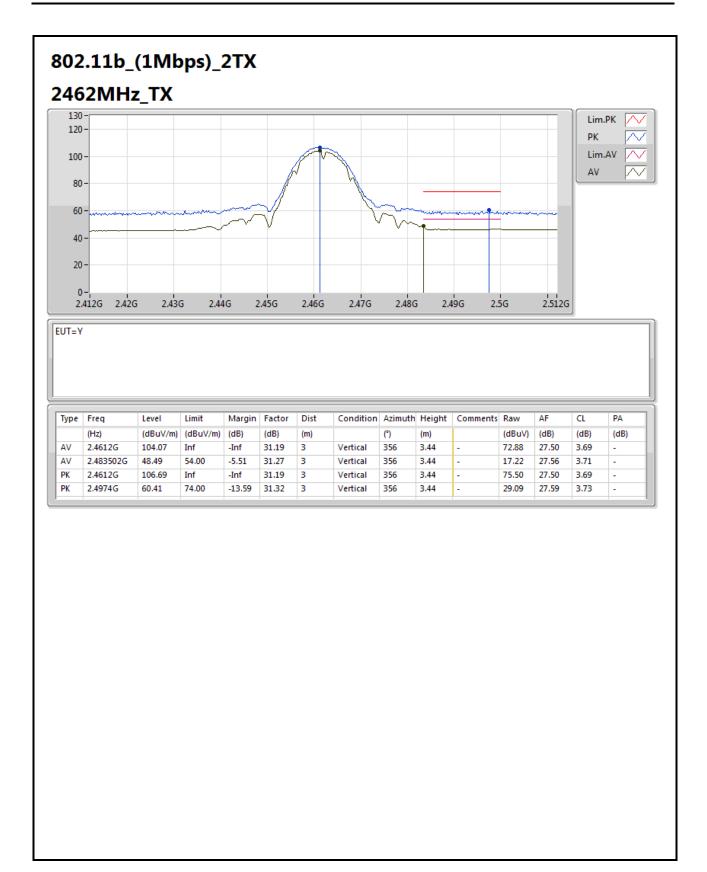
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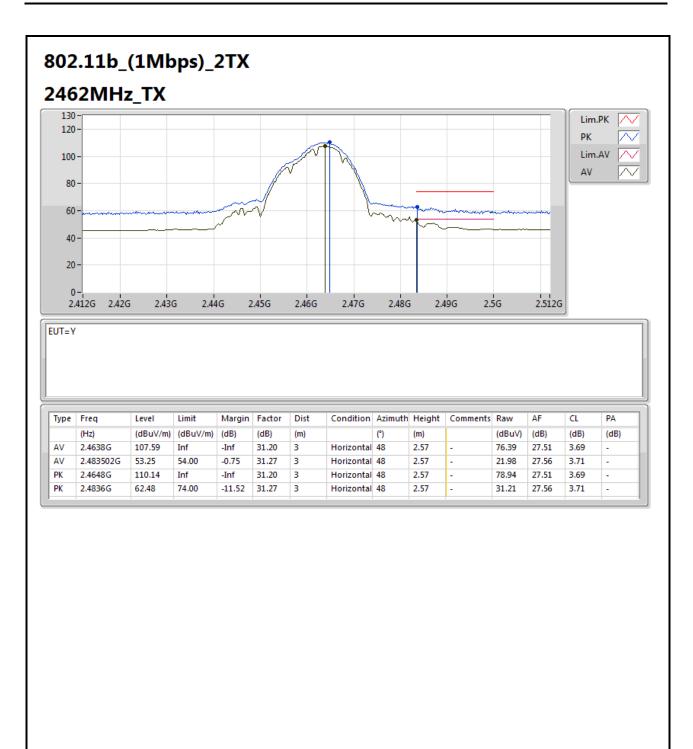
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F13 of F53





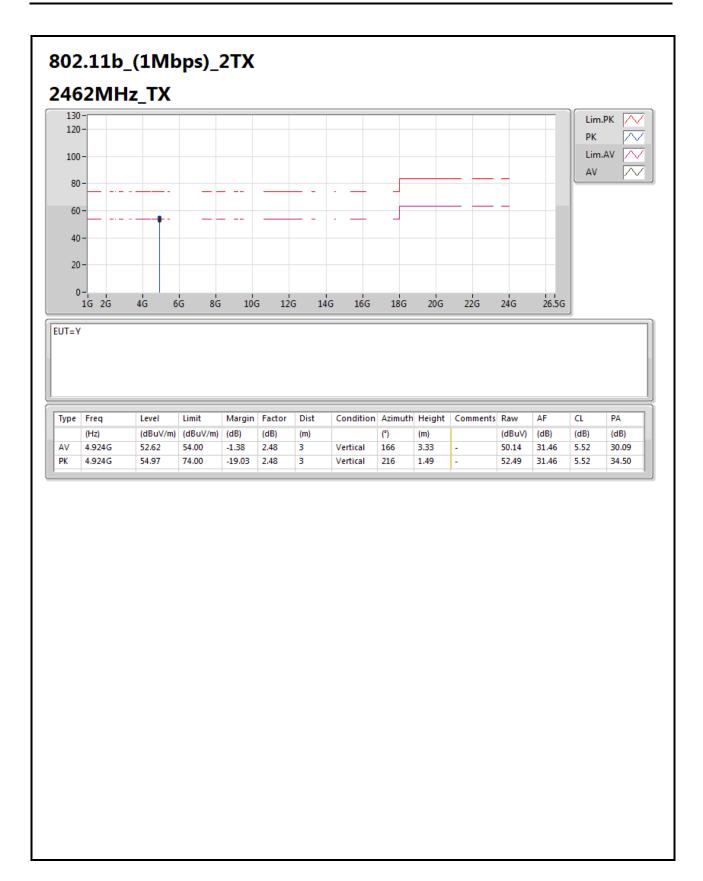
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F14 of F53





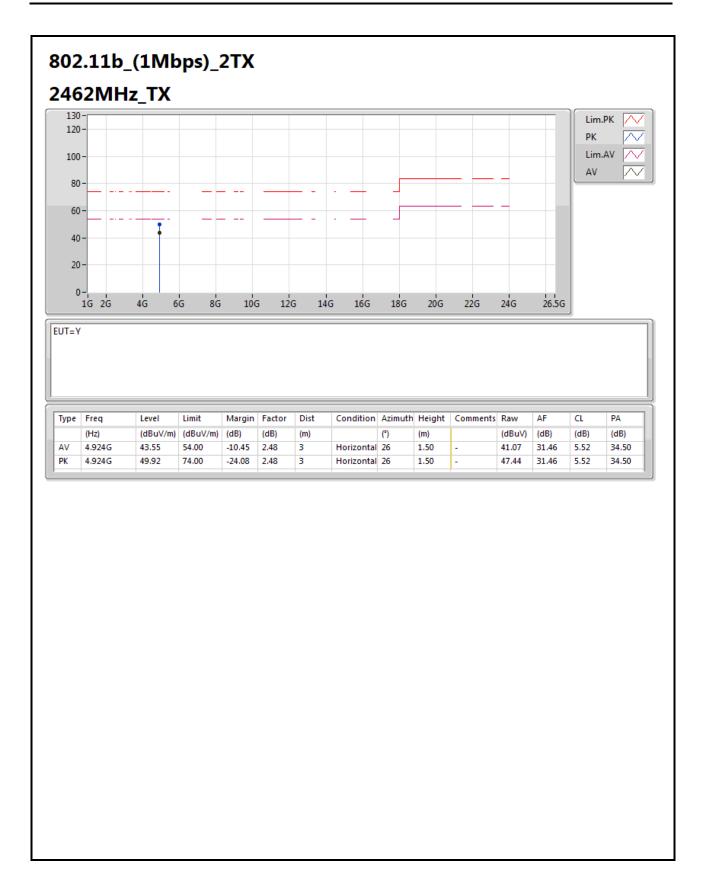
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F15 of F53





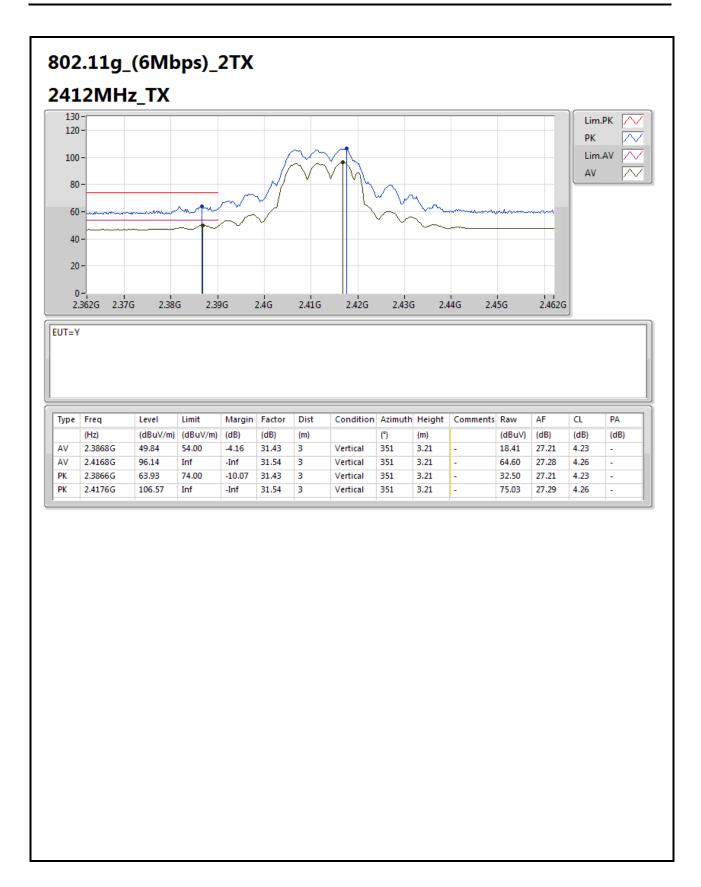
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F16 of F53





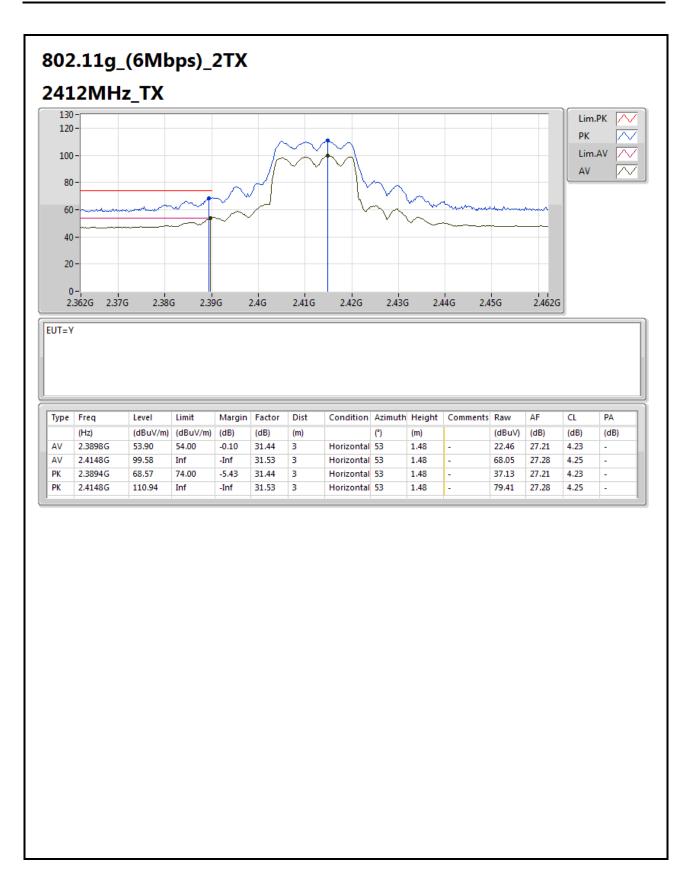
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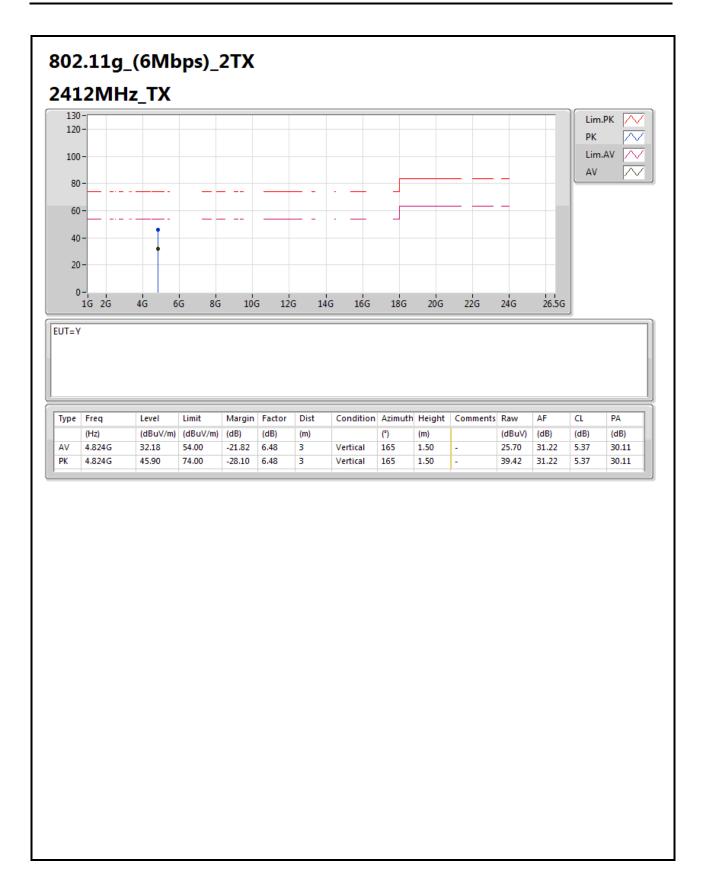
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F18 of F53





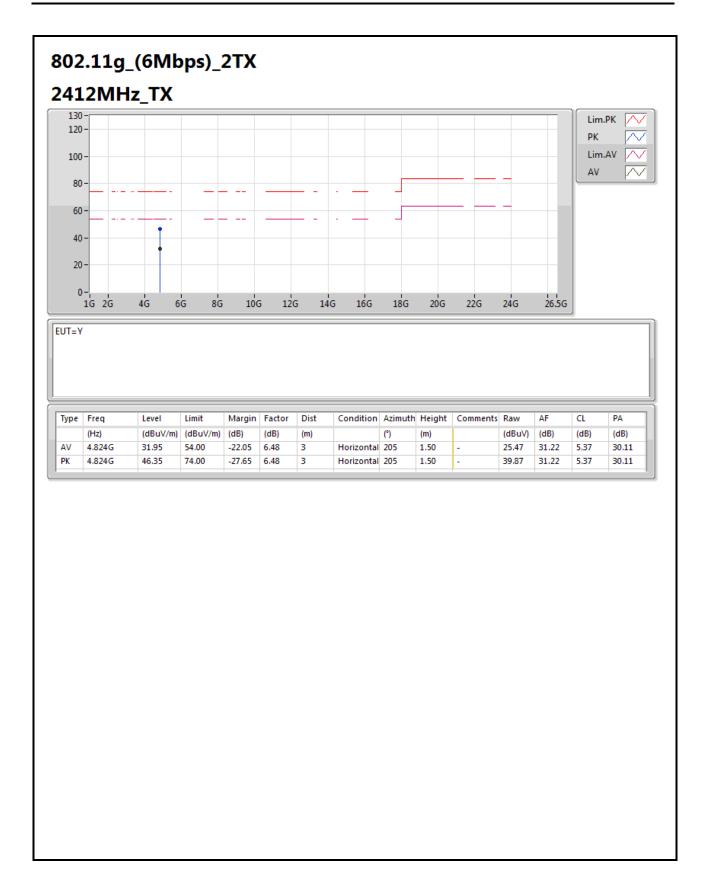
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F19 of F53





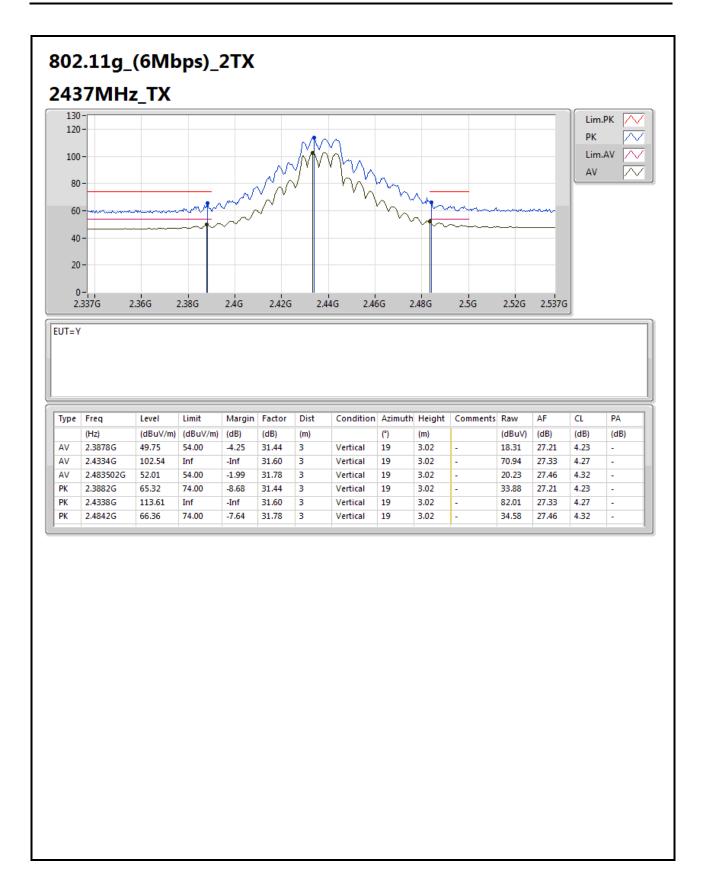
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F20 of F53





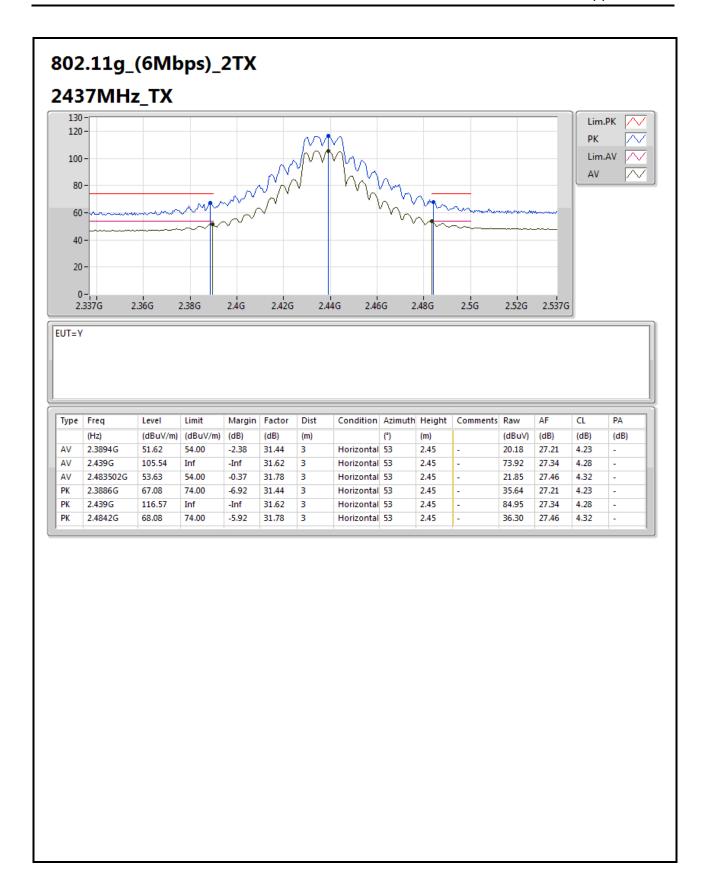
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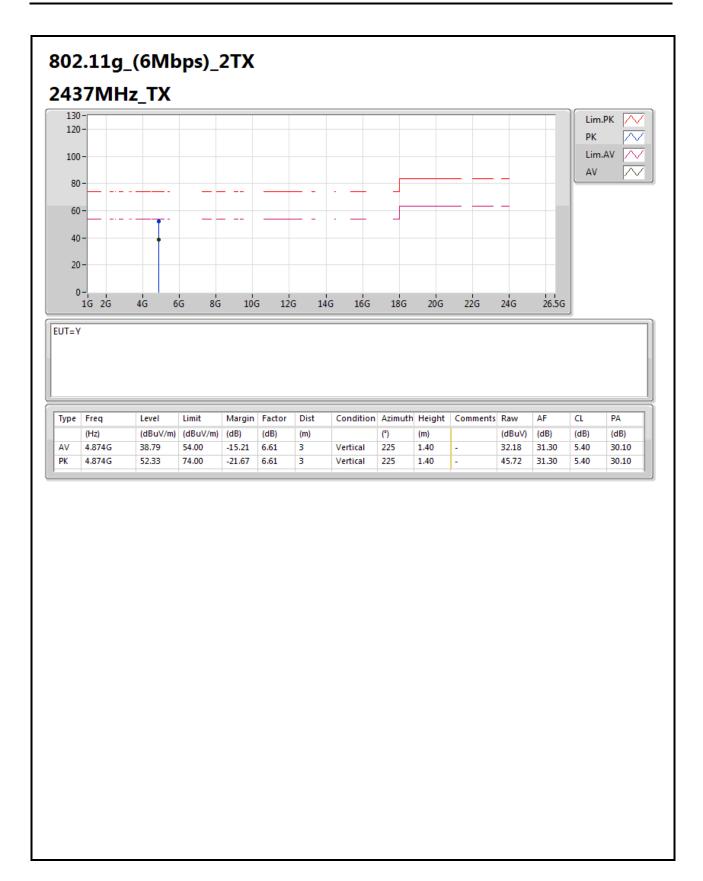
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F22 of F53





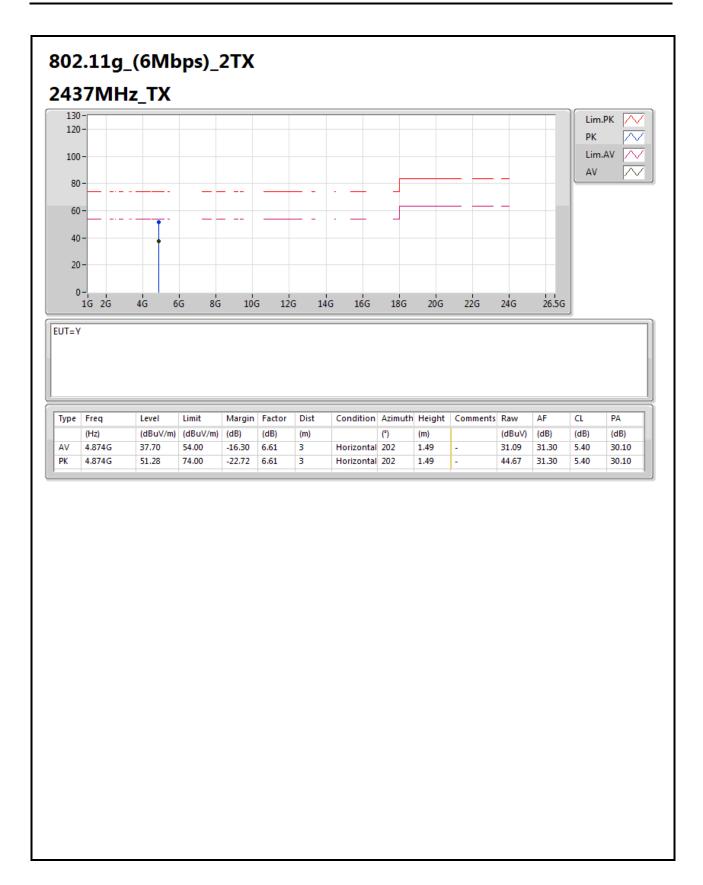
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F23 of F53





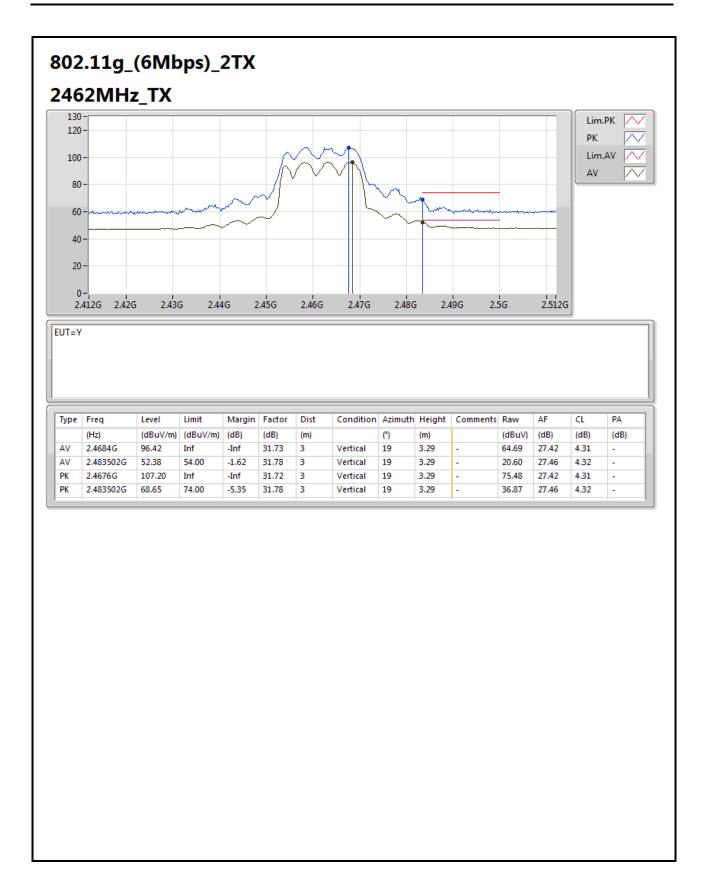
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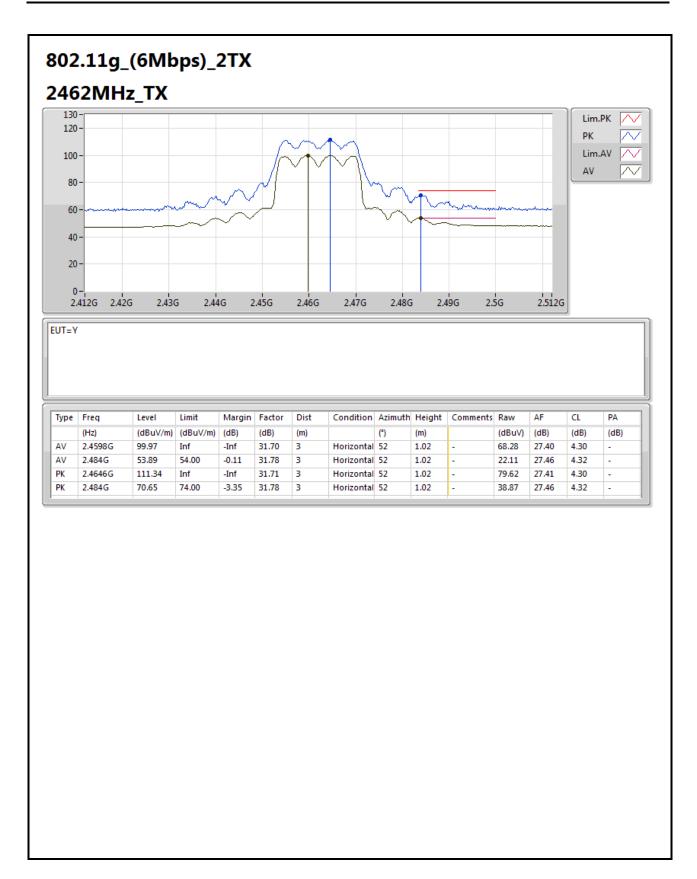
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F25 of F53





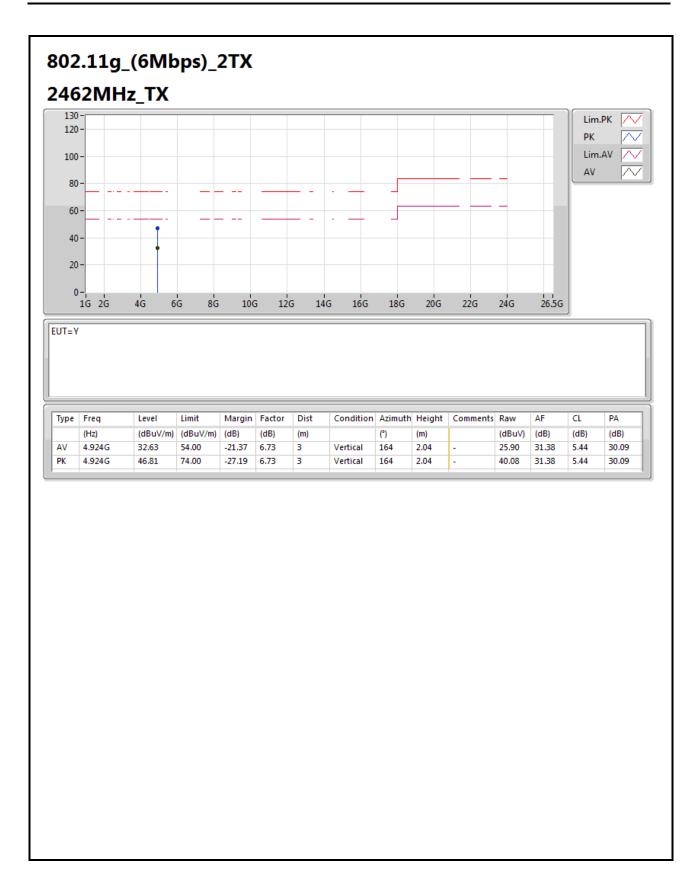
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F26 of F53





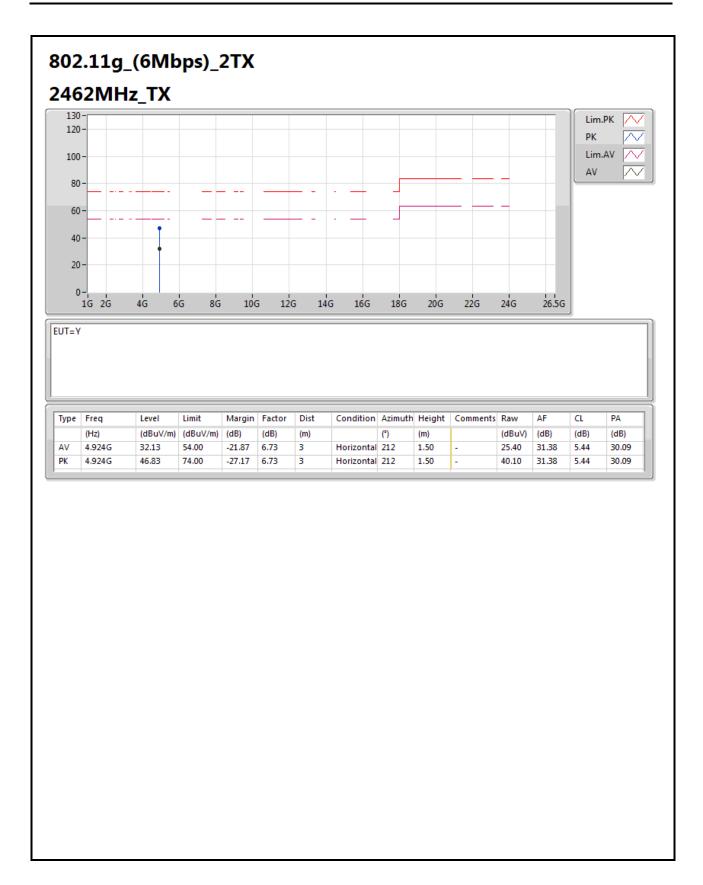
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F27 of F53





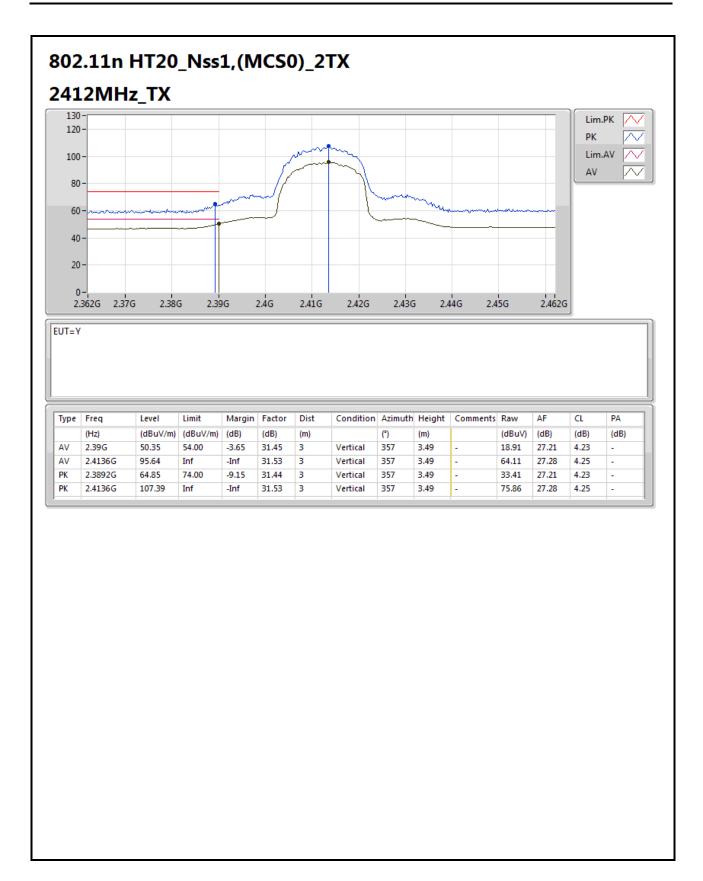
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F28 of F53





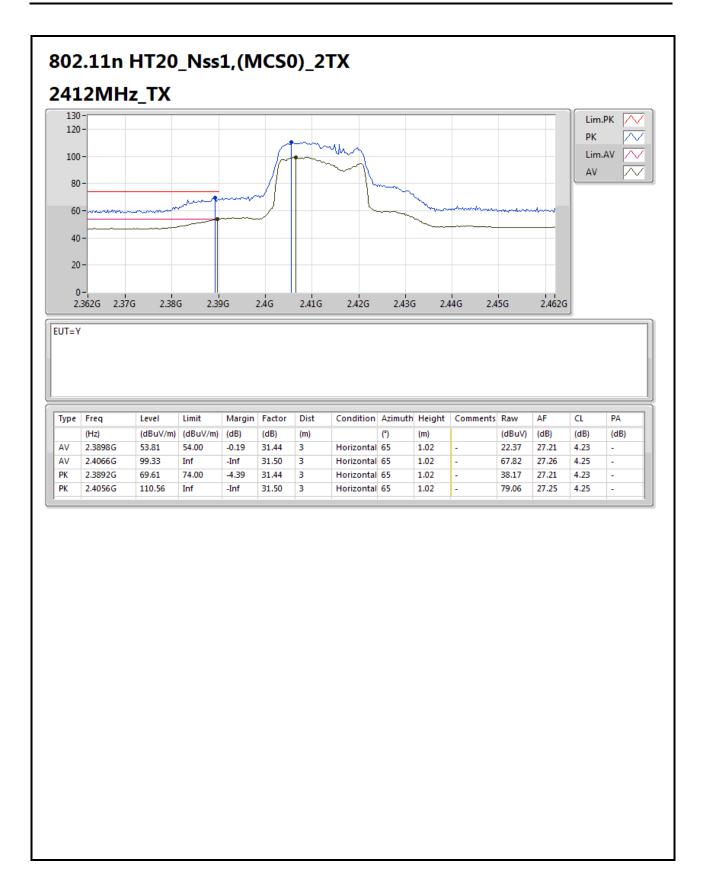
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F29 of F53





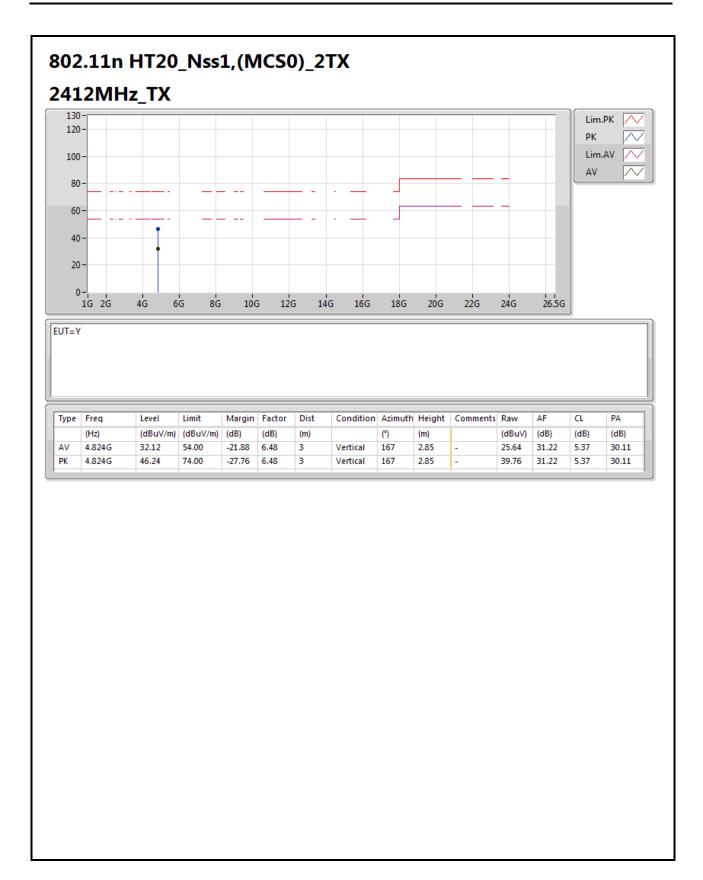
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F30 of F53





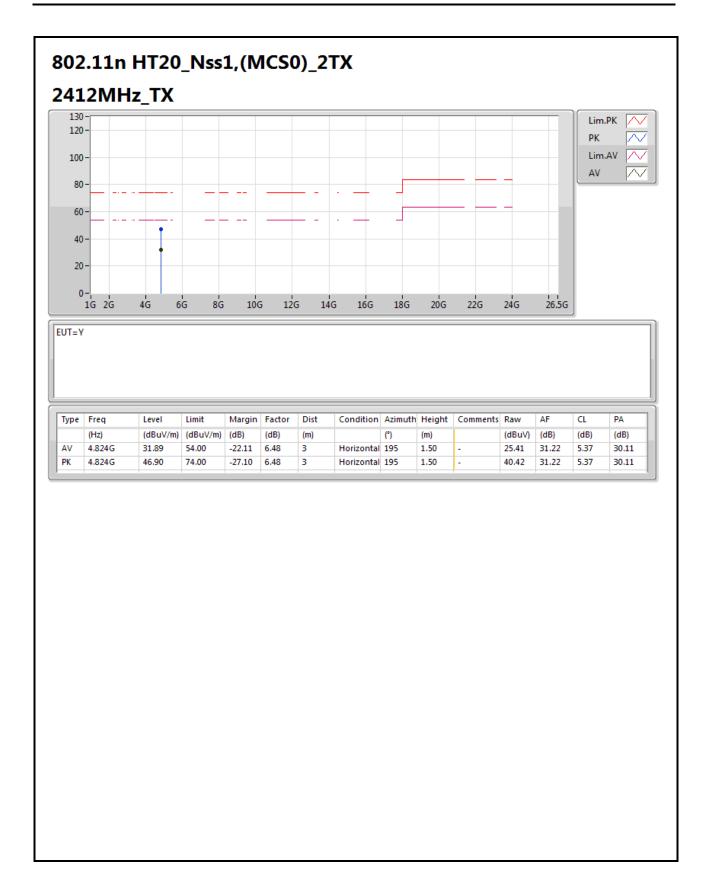
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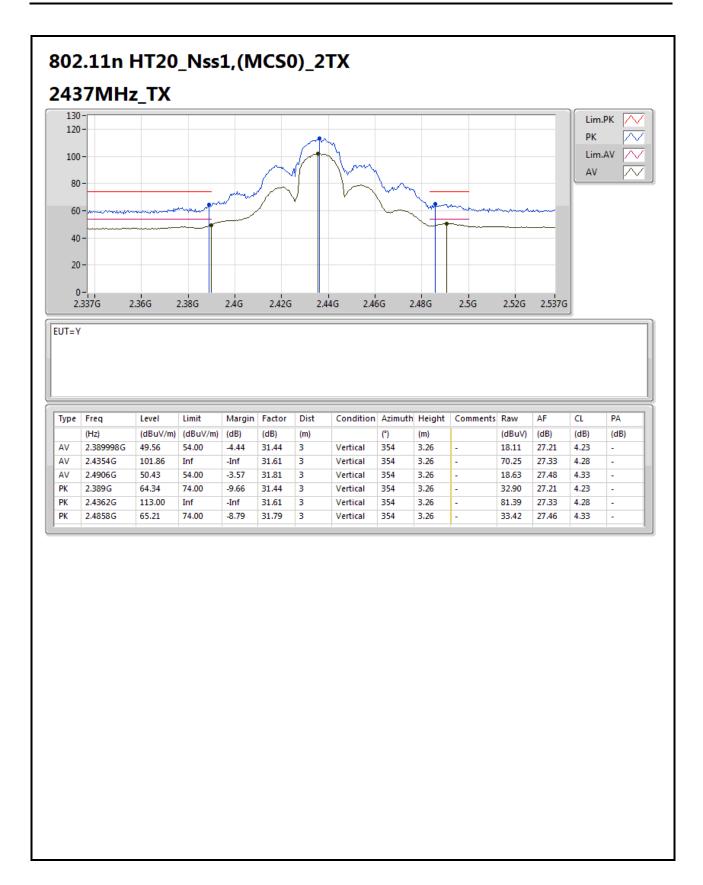
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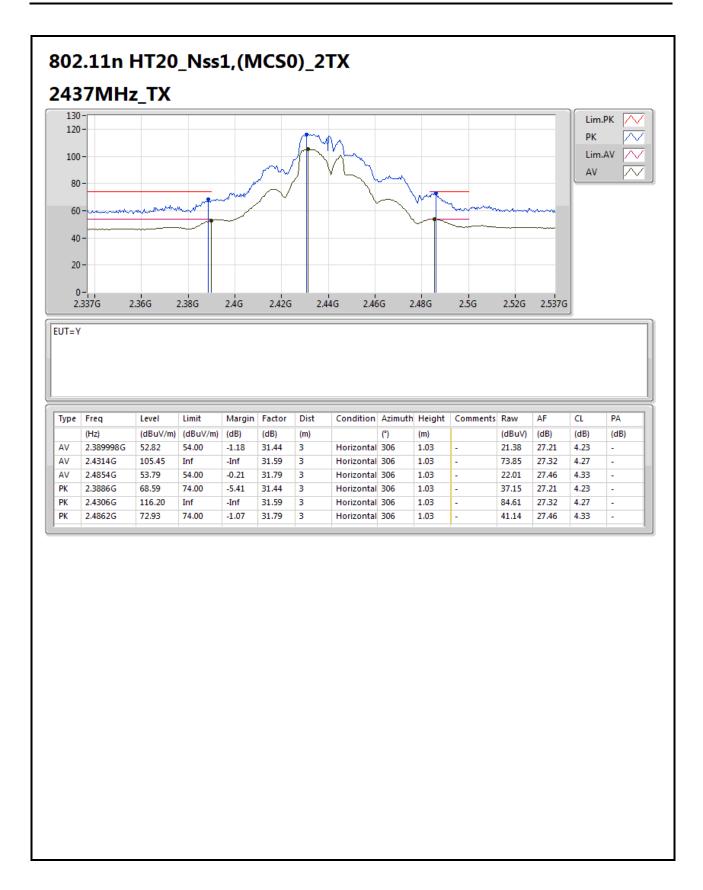
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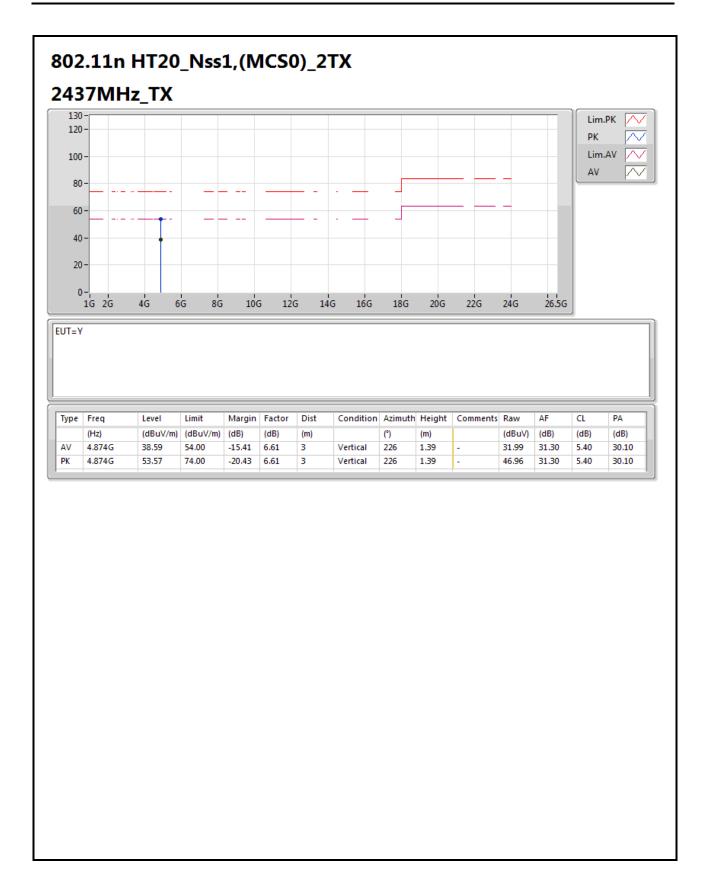
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F34 of F53





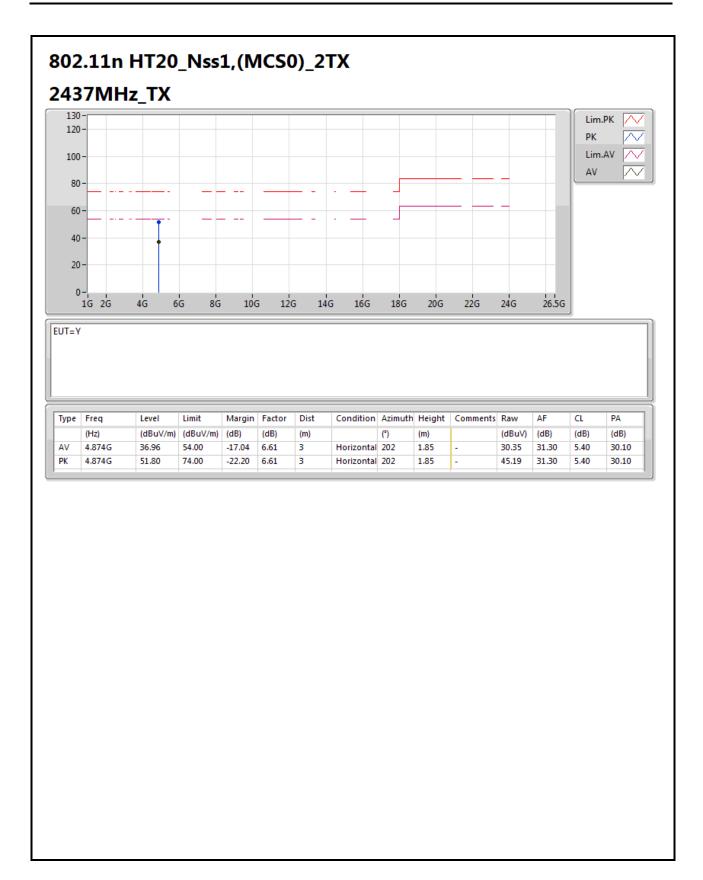
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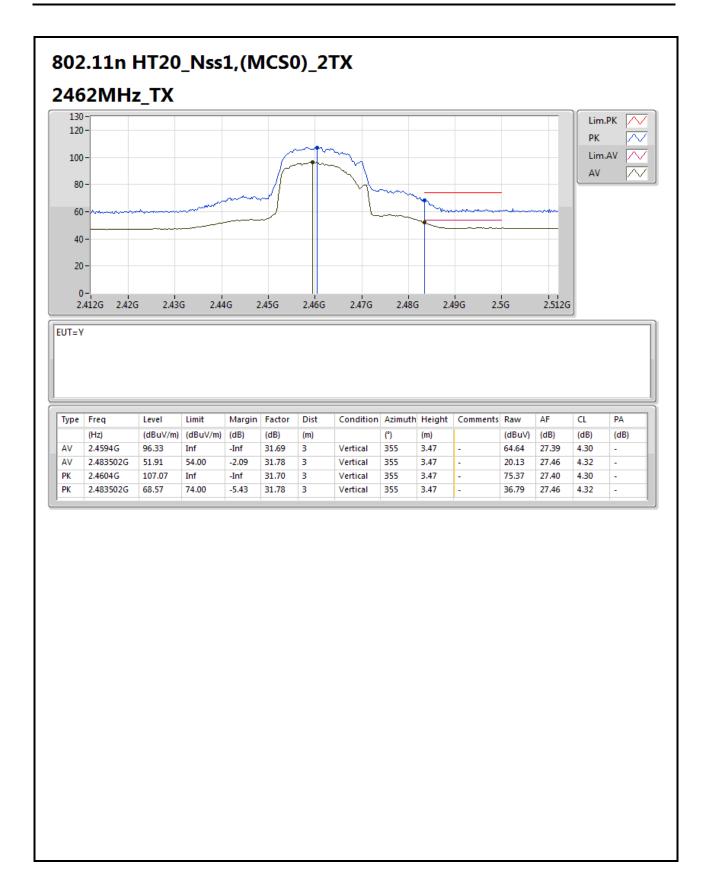
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F36 of F53





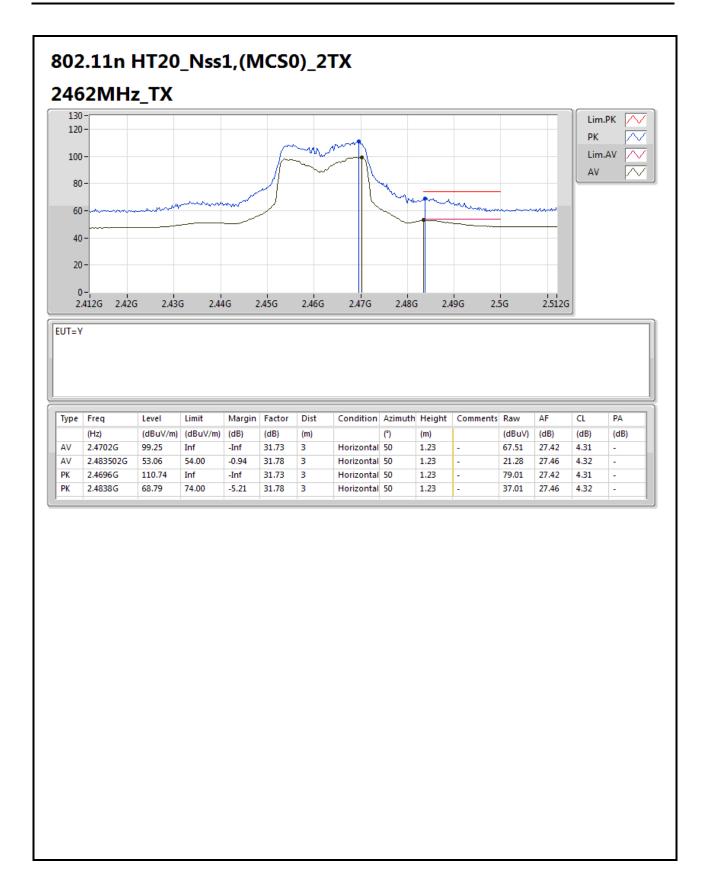
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F37 of F53





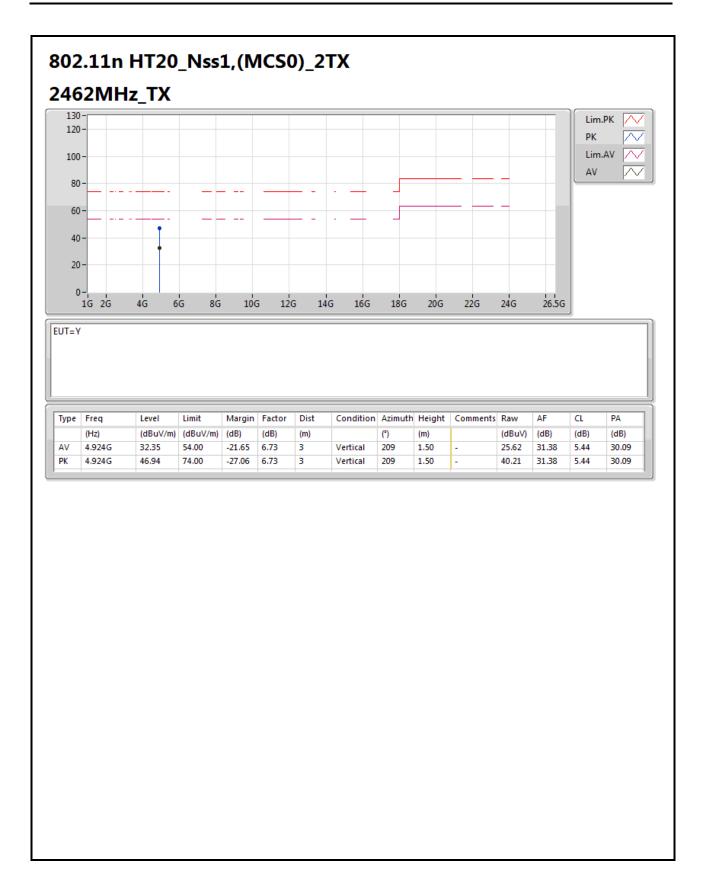
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F38 of F53





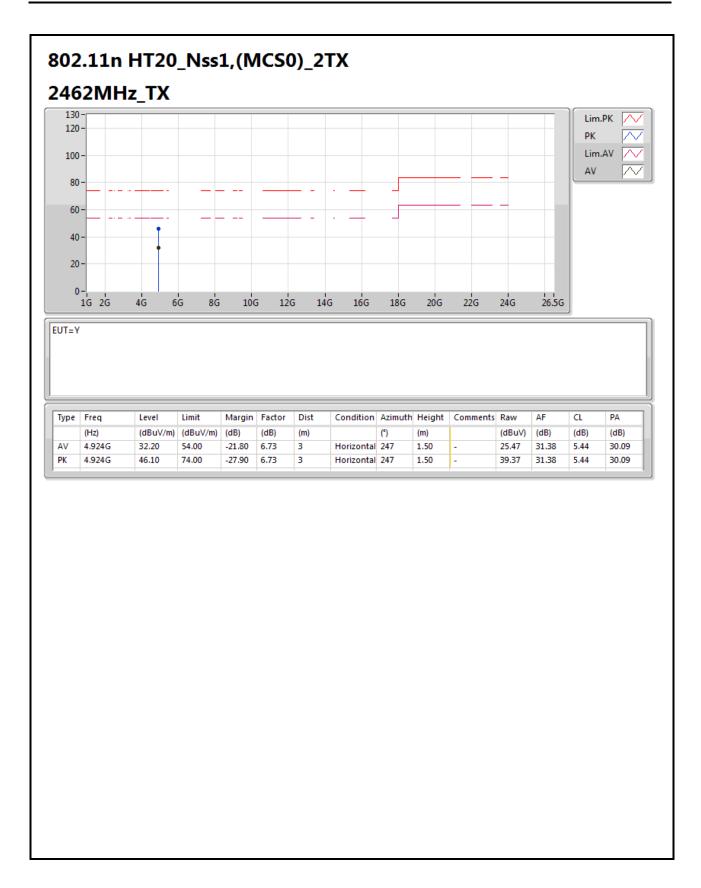
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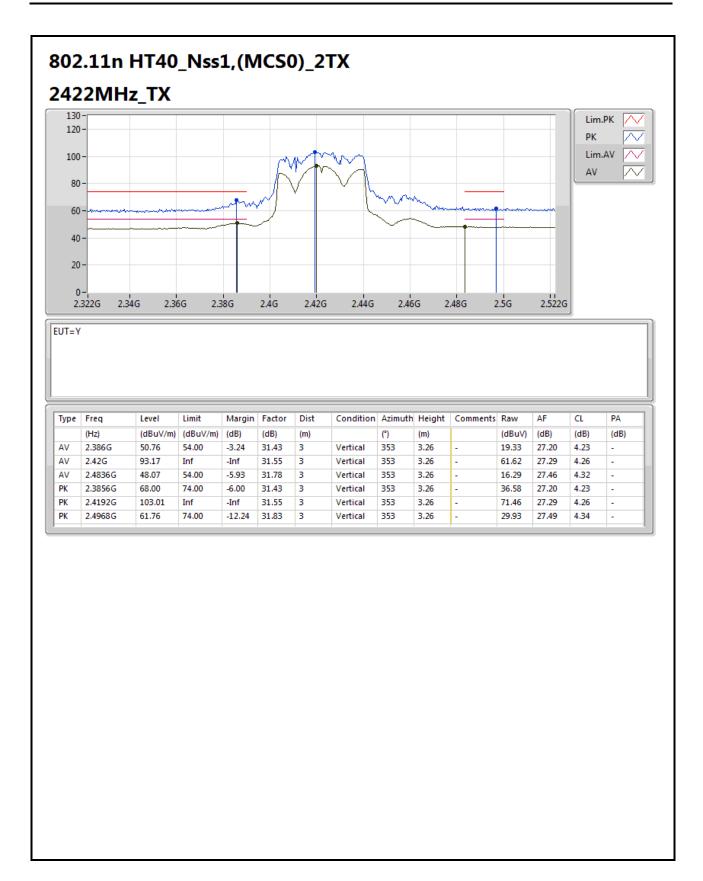
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F40 of F53





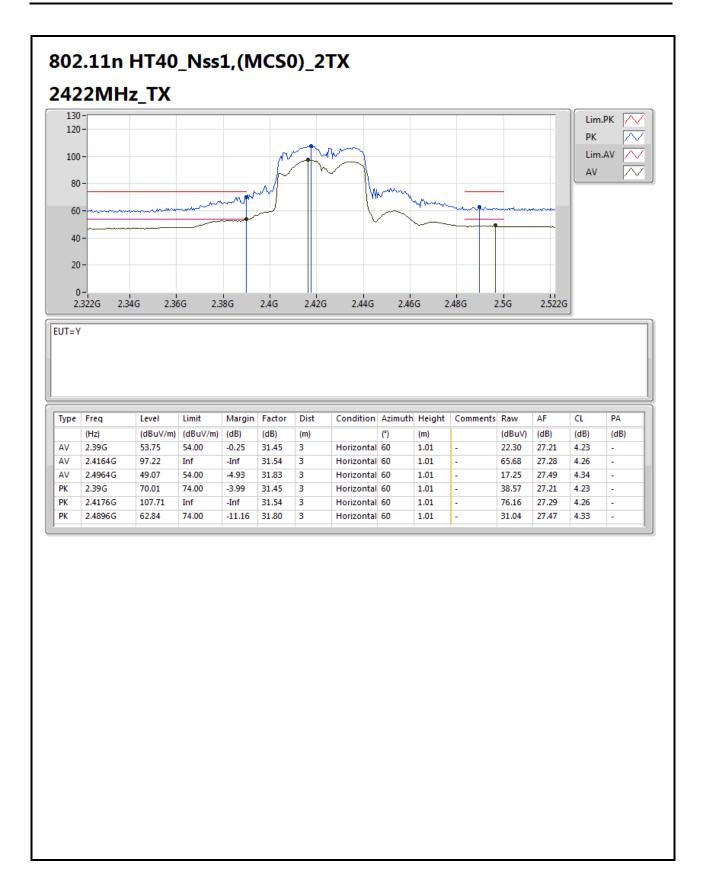
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F41 of F53





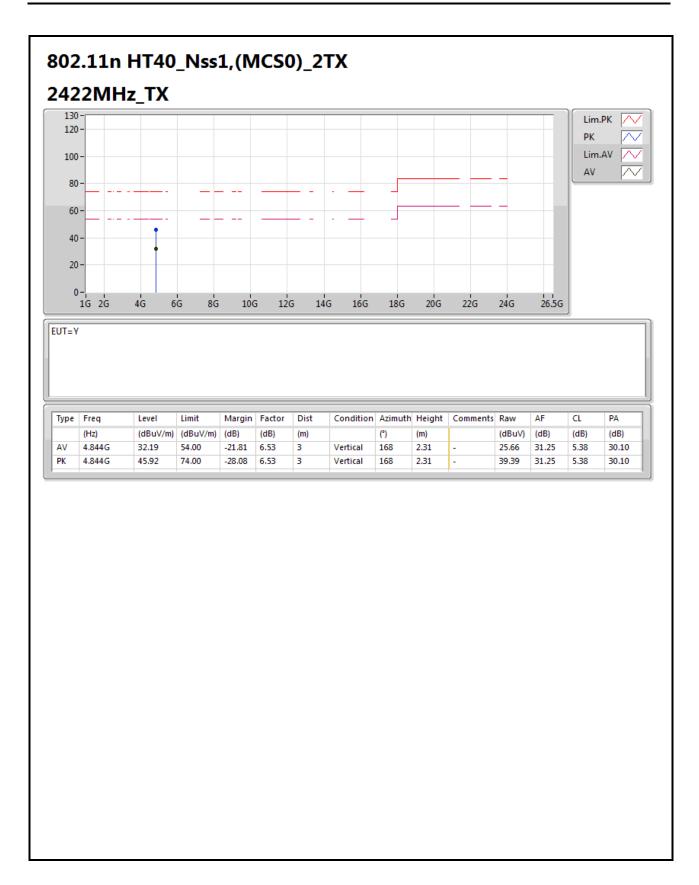
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F42 of F53





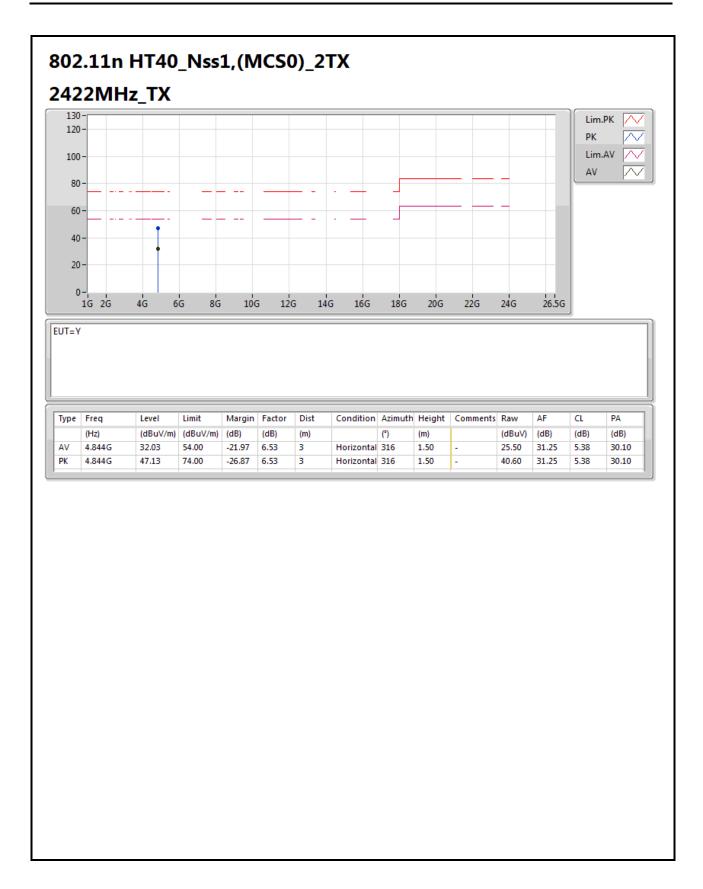
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F43 of F53





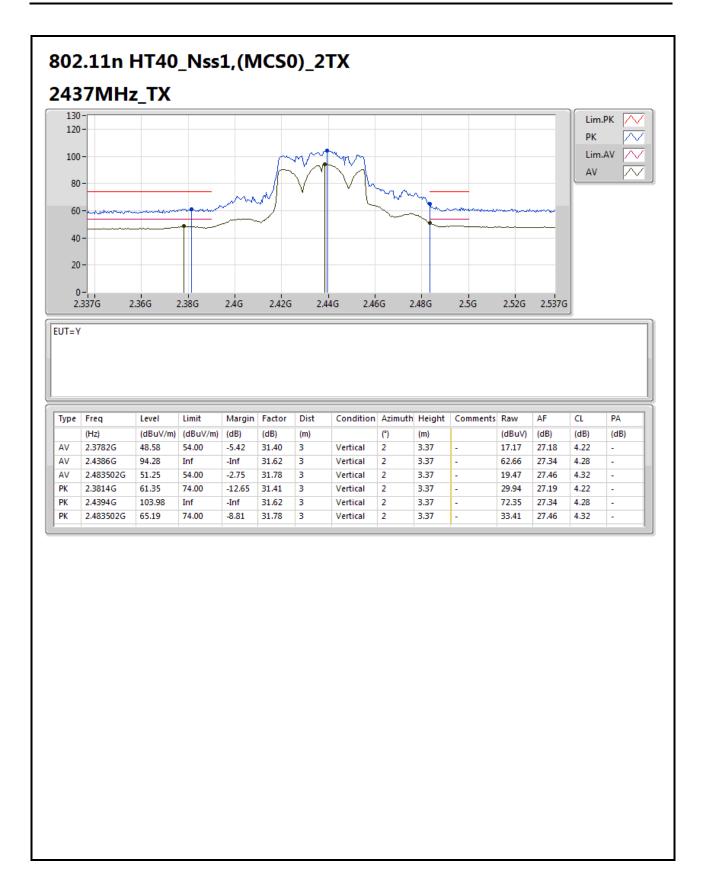
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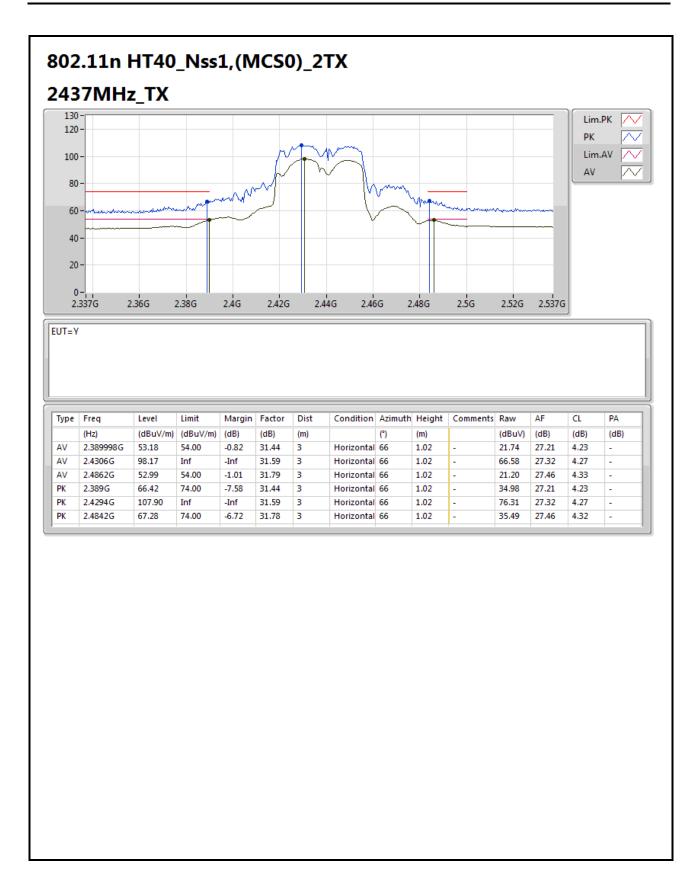
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F45 of F53





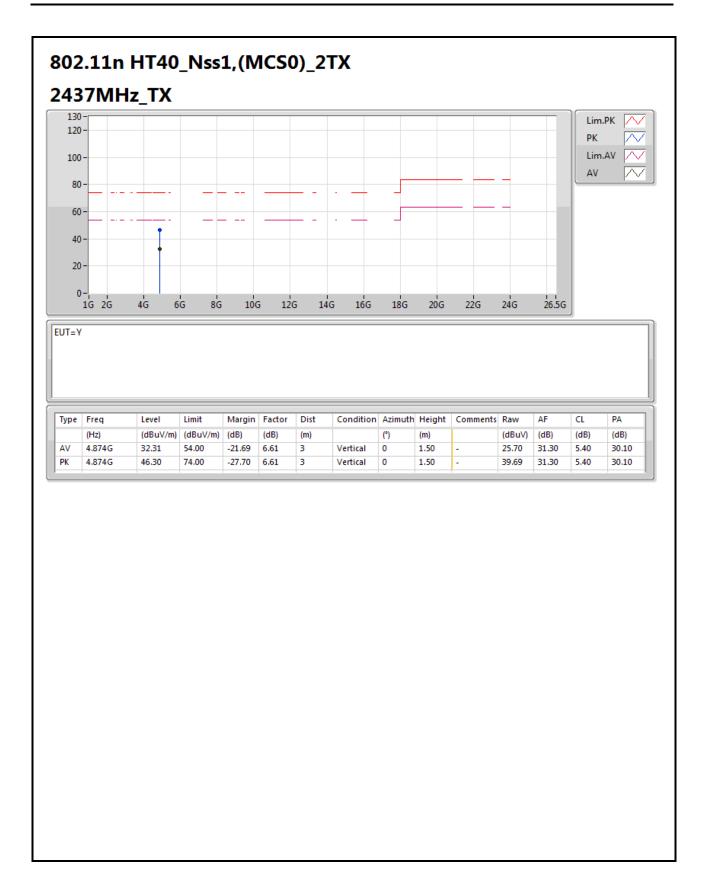
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F46 of F53





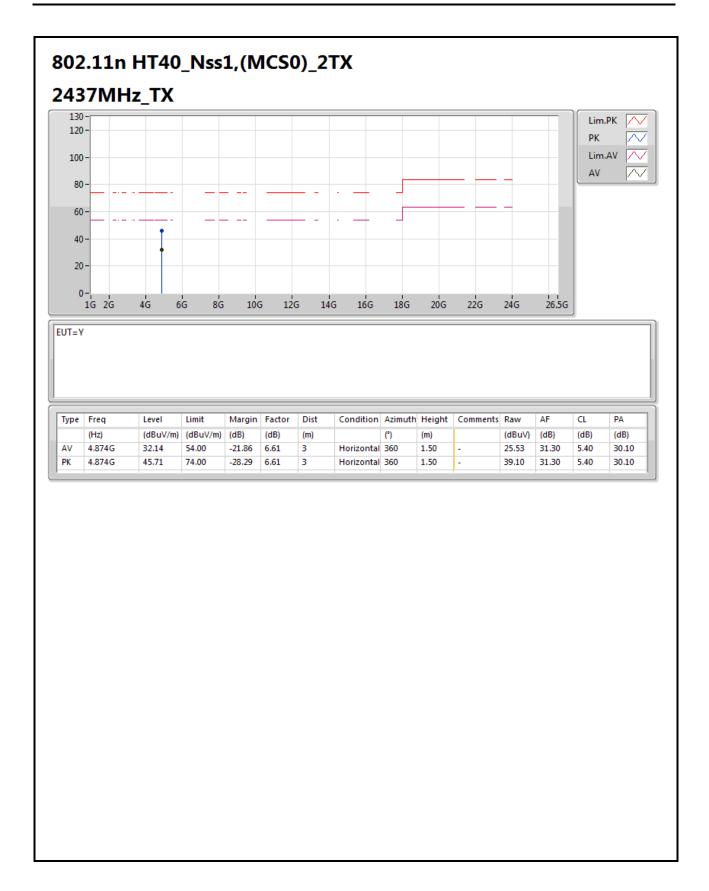
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F47 of F53





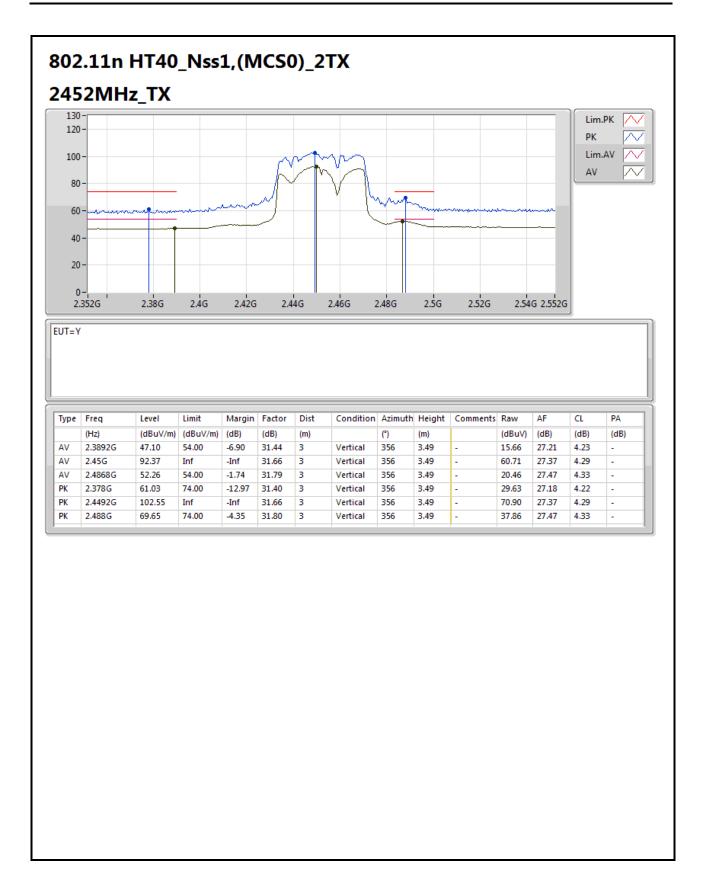
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F48 of F53





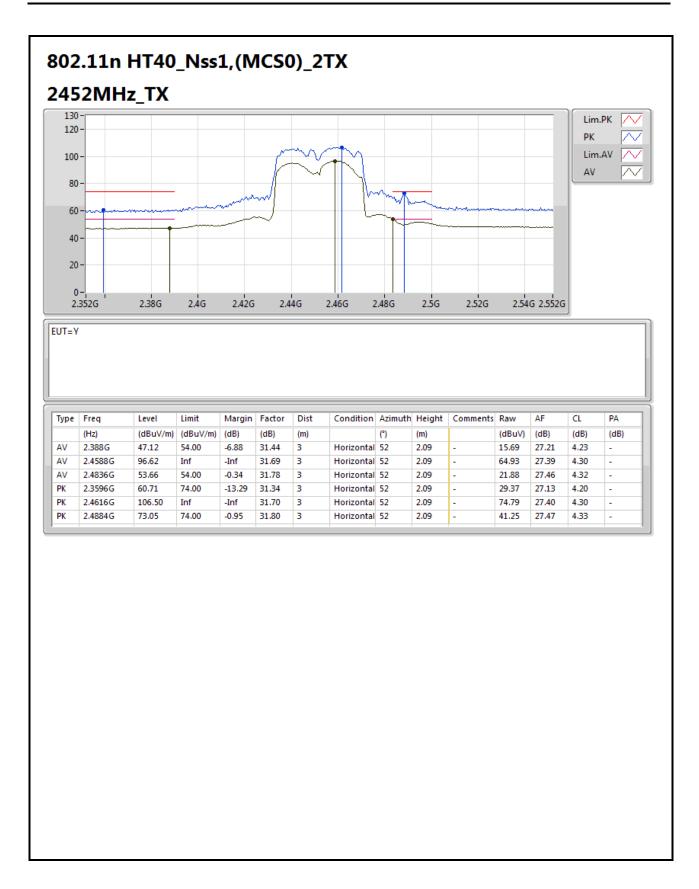
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F49 of F53





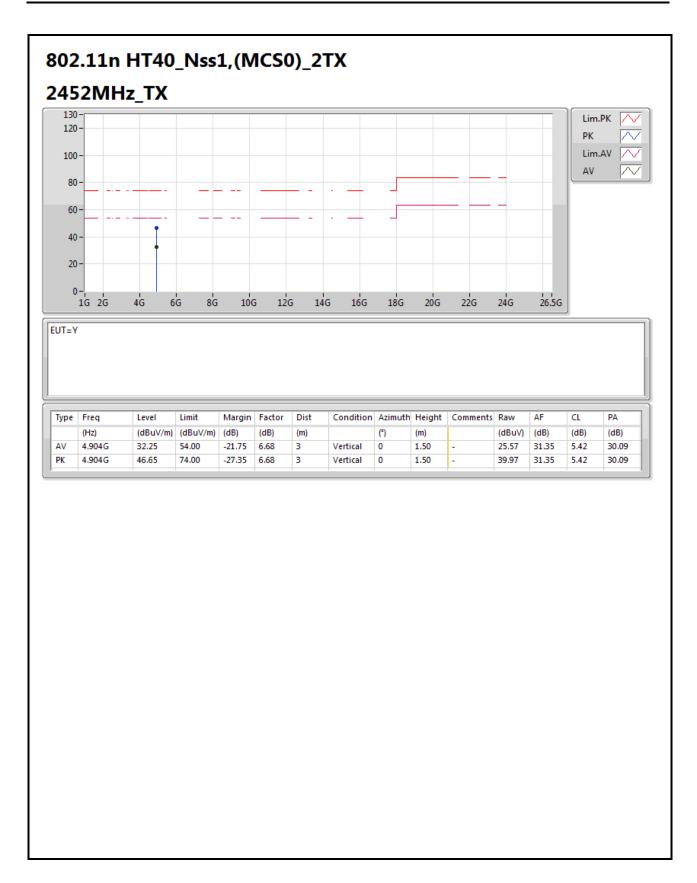
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F50 of F53





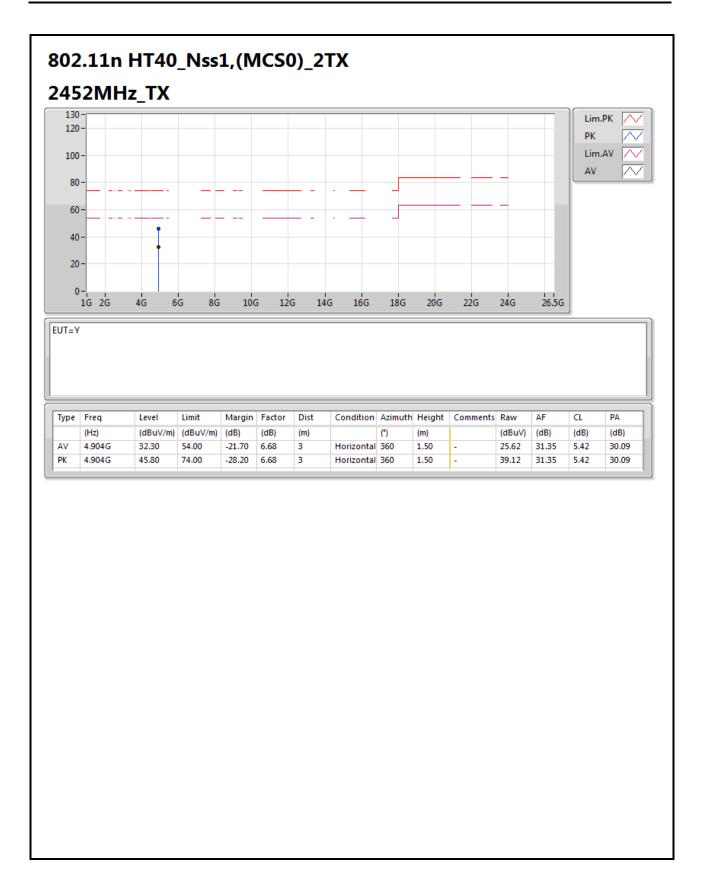
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F51 of F53





TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F52 of F53

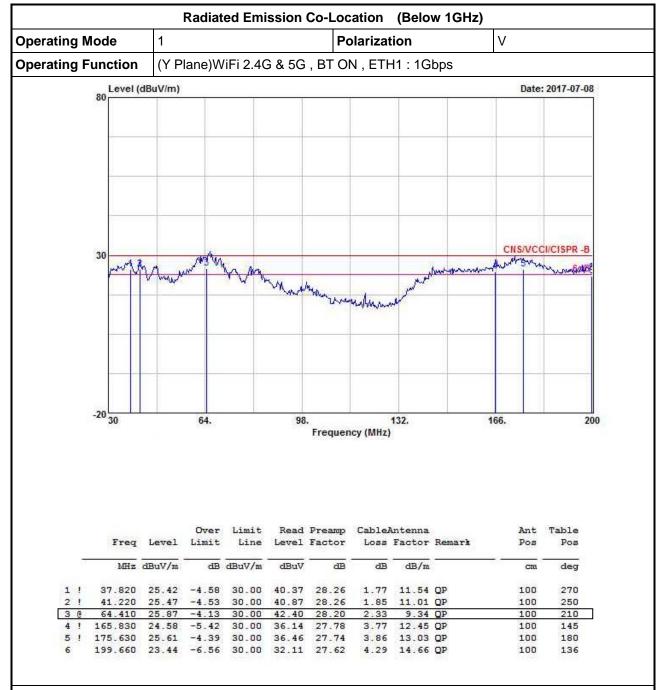




TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F53 of F53



Radiated Emission Co-Location



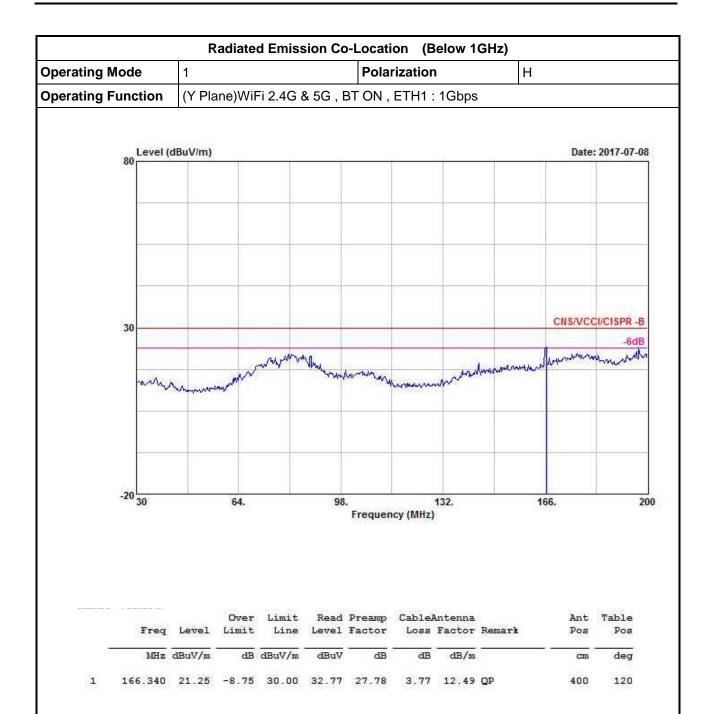
Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

SPORTON INTERNATIONAL INC. Page No. : G1 of G4





Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

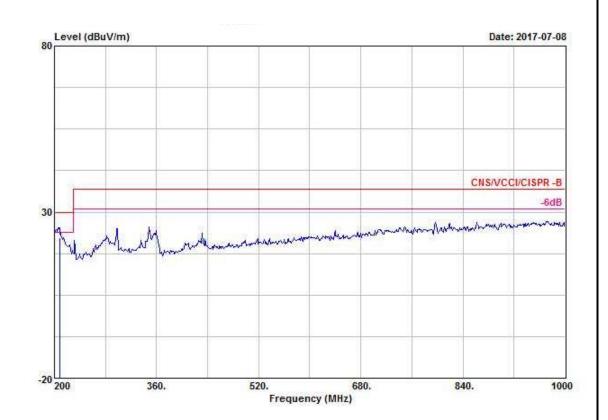
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

SPORTON INTERNATIONAL INC. Page No. : G2 of G4



Radiated Emission Co-Location

Radiated Emission Co-Location (Below 1GHz)								
Operating Mode 1 Polarization V								
Operating Function	(Y Plane)WiFi 2.4G & 5G , BT ON , ETH1 : 1Gbps							



	Freq	Level		Limit Line						Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m		- Cm	deg
1	208.000	22.29	-7.71	30.00	31.20	27.66	3.14	15.61	QP	100	100

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

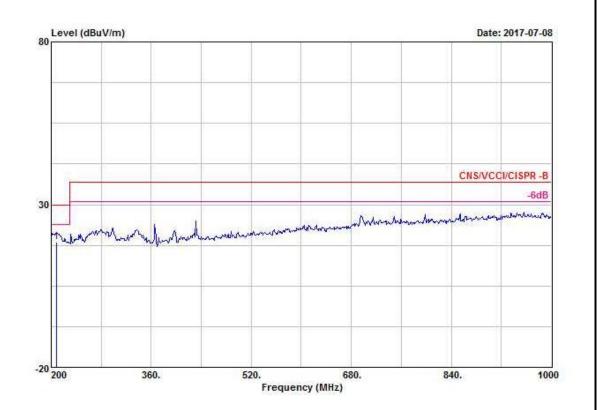
Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

SPORTON INTERNATIONAL INC. Page No. : G3 of G4



Radiated Emission Co-Location

Radiated Emission Co-Location (Below 1GHz)									
Operating Mode	Mode 1 Polarization H								
Operating Function	unction (Y Plane)WiFi 2.4G & 5G , BT ON , ETH1 : 1Gbps								



	Freq Level			Over Limit Limit Line L		and the second second				Ant Pos	Table Pos
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB	dB	dB/m			deg
1	208.000	18.49	-11.51	30.00	27.40	27.66	3.14	15.61	QP	400	234

Note 1: ">20dB" means spurious emission levels that exceed the level of 20 dB below the applicable limit.

Note 2: "N/F" means Nothing Found spurious emissions (No spurious emissions were detected.)

Note 3: Measurement receive antenna polarization: H (Horizontal), V (Vertical)

SPORTON INTERNATIONAL INC. Page No. : G4 of G4



RSE above 1GHz Result

Appendix G.2

740634-01

Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
Mode 1.	Pass	AV	3.335G	28.70	54.00	-25.30	-1.20	3	Horizontal	360	1.00	-
Mode 2.	Pass	AV	3.425G	29.78	54.00	-24.22	-1.11	3	Horizontal	0	1.00	-

SPORTON INTERNATIONAL INC. Page No. : G1 of G6

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RSE above 1GHz Result

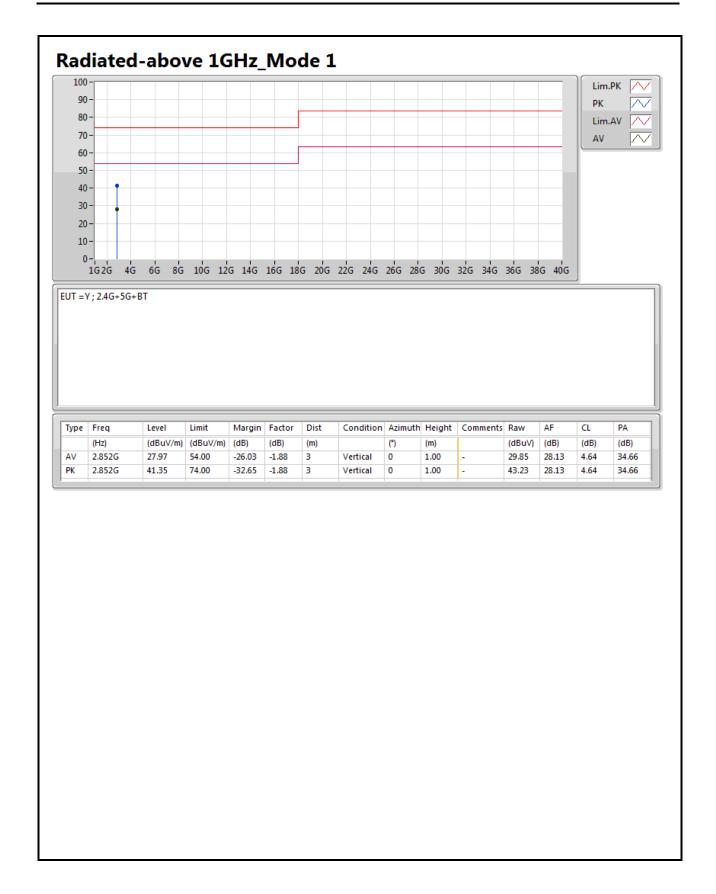
Appendix G.2

Result

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
Mode 1.	Pass	AV	3.335G	28.70	54.00	-25.30	-1.20	3	Horizontal	360	1.00	-
Mode 1.	Pass	PK	3.335G	42.80	74.00	-31.20	-1.20	3	Horizontal	360	1.00	-
Mode 1.	Pass	AV	2.852G	27.97	54.00	-26.03	-1.88	3	Vertical	0	1.00	-
Mode 1.	Pass	PK	2.852G	41.35	74.00	-32.65	-1.88	3	Vertical	0	1.00	-
Mode 2.	Pass	AV	3.425G	29.78	54.00	-24.22	-1.11	3	Horizontal	0	1.00	-
Mode 2.	Pass	PK	3.425G	43.56	74.00	-30.44	-1.11	3	Horizontal	0	1.00	-
Mode 2.	Pass	AV	2.728G	28.49	54.00	-25.51	-2.18	3	Vertical	360	1.00	-
Mode 2.	Pass	PK	2.728G	42.16	74.00	-31.84	-2.18	3	Vertical	360	1.00	-

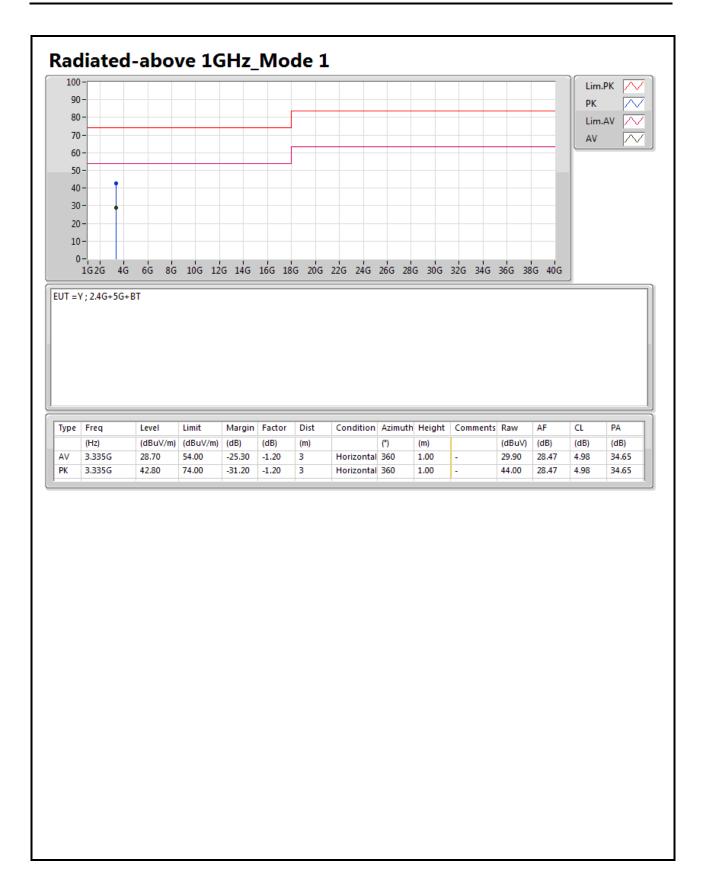
SPORTON INTERNATIONAL INC. Page No. : G2 of G6





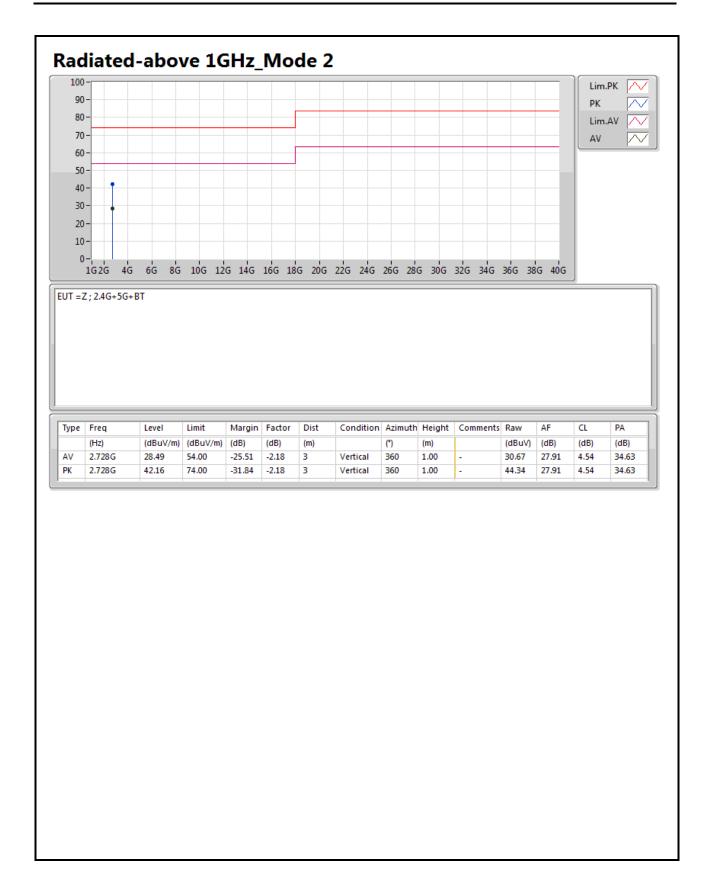
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : G3 of G6



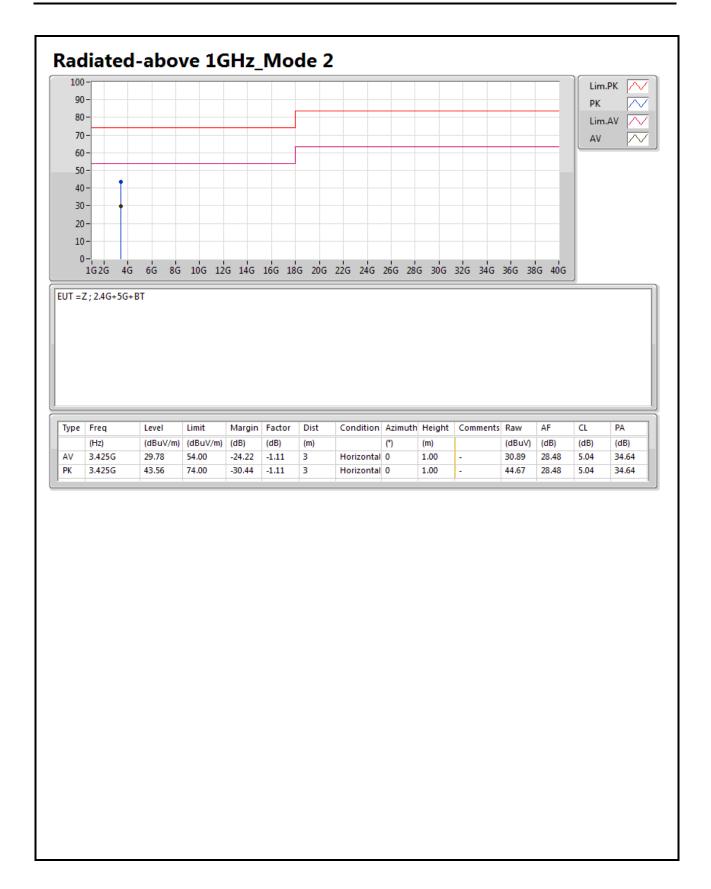


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : G4 of G6









TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : G6 of G6