



Report No.: FR8O3112AC

FCC Test Report

FCC ID : 2AIBX-NIU5L

Equipment : NIU5 WiFi / BLE Module

Brand Name : Electrolux Model Name : NIU5-50

Applicant : ELECTROLUX ITALIA S.p.A.

Corso Lino Zanussi 24 / 33080 Porcia (PN), Italy

Manufacturer : LITE-ON Technology (Changzhou) CO.LTD

No.88, Yanghu Road, Wujin Hi-Tech Industrial Development Zone, Jiangsu Province, China

Zip Code: 213166

Standard : 47 CFR FCC Part 15.247

The product was received on Oct. 31, 2018, and testing was started from Nov. 20, 2018 and completed on Nov. 21, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, 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 report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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

Approved by: Phoenix Chen

FCC ID: 2AIBX-NIU5L

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)

TEL: 886-3-3273456 Page Number : 1 of 23

Report Template No.: HE1-C8 Ver3.2 Report Version : 01



FCC Test Report

Table of Contents

HIST	ORY OF THIS TEST REPORT	3
SUMI	MARY OF TEST RESULT	4
1	GENERAL DESCRIPTION	5
1.1	Information	5
1.2	Testing Applied Standards	7
1.3	Testing Location Information	7
1.4	Measurement Uncertainty	7
2	TEST CONFIGURATION OF EUT	8
2.1	Test Condition	8
2.2	Test Channel Mode	
2.3	The Worst Case Measurement Configuration	
2.4	Support Equipment	
2.5	Test Setup Diagram	11
3	TRANSMITTER TEST RESULT	13
3.1	AC Power-line Conducted Emissions	13
3.2	DTS Bandwidth	
3.3	Maximum Conducted Output Power	15
3.4	Power Spectral Density	
3.5	Emissions in Non-restricted Frequency Bands	
3.6	Emissions in Restricted Frequency Bands	19
4	TEST EQUIPMENT AND CALIBRATION DATA	22
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 PHOTOS	
PHO	TOGRAPHS OF EUT V01	

TEL: 886-3-3273456 FAX: 886-3-3270973

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

: 2 of 23 Page Number : Jan. 10, 2019 Issued Date

Report No.: FR8O3112AC

Report Version

: 01

History of this test report

Report No.	Version	Description	Issued Date
FR8O3112AC	01	Initial issue of report	Jan. 10, 2019

TEL: 886-3-3273456 Page Number : 3 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Issued Date : Jan. 10, 2019 Report Version : 01

Summary of Test Result

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

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Jackson Tsai

Report Producer: Jenny Yang

TEL: 886-3-3273456 : 4 of 23 Page Number FAX: 886-3-3270973

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

: Jan. 10, 2019 Issued Date

Report No.: FR8O3112AC

Report Version : 01

General Description 1

Information 1.1

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]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11n HT20	20	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	LITE-ON	-	Printed Antenna	-
2	LITE-ON	-	Printed Antenna	-

Ant.	Port	Gain (dBi)				
Ant.	Port	2.4G	5G	ВТ		
1	1	1.7	3.2	-		
2	1	-	-	1.5		

Note 1: The EUT has two antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For 5GHz function:

For IEEE 802.11 a/an mode (1TX/1RX)

Only Ant. 1 (port 1) can be used as transmitting/receiving antenna.

For BT function:

For IEEE 802.15.1 Bluetooth mode (1TX/1RX)

Only Ant. 2 (port 1) can be used as transmitting/receiving antenna.

TEL: 886-3-3273456 : 5 of 23 Page Number FAX: 886-3-3270973

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

: Jan. 10, 2019 Issued Date

Report No.: FR8O3112AC

Report Version : 01



FCC Test Report

1.1.3 EUT Information

	Operational Condition						
EUT	Γ Power T	уре	Fro	m host system			
EU	Γ Function	1		Point-to-multipo	int	X	Point-to-point
Bea	amforming	Function		With beamformi	ng	\boxtimes	Without beamforming
				7	Гуре о	f EU	т
\boxtimes	Stand-alo	ne					
	Combine	d (EUT where	e the	radio part is fully	integr	ated	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:						

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.996	0.017	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.973	0.119	2.027m	1k
802.11n HT20	0.971	0.128	1.891m	1k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

TEL: 886-3-3273456 Page Number : 6 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Issued Date : Jan. 10, 2019 Report Version : 01

1.2 Testing Applied Standards

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

- 47 CFR FCC Part 15
- ANSI C63.10-2013
- KDB 558074 D01 v05
- 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	on No. TW1190 with FCC.	
	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 No. TW0006 with FCC.					

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH06-HY	Dexter	25°C / 57%	20/Nov/2018
Radiated	03CH09-HY	Kevin	21.6°C / 64%	20/Nov/2018
AC Conduction	CO04-HY	Andy	23.3°C / 61%	21/Nov/2018

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)

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.54 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	1.6 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.9 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.3 dB	Confidence levels of 95%
Temperature	0.7 °C	Confidence levels of 95%
Humidity	4 %	Confidence levels of 95%

TEL: 886-3-3273456 Page Number : 7 of 23
FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Issued Date : Jar Report Version : 01



2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	120V

2.2 Test Channel Mode

Test Software Version	QSPR 5.0-00163
-----------------------	----------------

Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	16
2437MHz	16
2462MHz	17
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	15.5
2417MHz	17
2422MHz	21.5
2427MHz	23
2432MHz	24
2437MHz	24
2442MHz	23
2447MHz	21
2452MHz	19
2457MHz	17.5
2462MHz	14.5
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	15
2417MHz	17.5
2422MHz	21
2427MHz	22.5
2432MHz	23.5
2437MHz	23.5
2442MHz	22.5
2447MHz	21
2452MHz	18.5
2457MHz	17
2462MHz	13.5

TEL: 886-3-3273456 FAX: 886-3-3270973

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Page Number : 8 of 23
Issued Date : Jan. 10, 2019

Report No.: FR8O3112AC

Report Version : 01

2.3 **The Worst Case Measurement Configuration**

The Worst Case Mode for Following Conformance Tests		
Tests Item	AC power-line conducted emissions	
Condition	AC power-line conducted measurement for line and neutral	
Operating Mode	стх	
1	USB mode	

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	

Th	The Worst Case Mode for Following Conformance Tests			
Tests Item	Emissions in Restricted Fro	equency 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 < 1GHz	стх			
1	USB mode			
Operating Mode > 1GHz	СТХ			
	X Plane Y Plane Z Plane			
Orthogonal Planes of EUT				
Worst Planes of EUT		V		

The Worst Case Mode for Following Conformance Tests		
Tests Item Simultaneous Transmission Analysis		
Operating Mode CTX		
1	1 Bluetooth+WLAN 2.4GHz	
2	2 Bluetooth+WLAN 5GHz	
Refer to Sporton Test Report No.: FA8O3112 for Co-location RF Exposure Evaluation.		

TEL: 886-3-3273456 : 9 of 23 Page Number : Jan. 10, 2019

FAX: 886-3-3270973 Issued Date Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Report Version : 01



2.4 Support Equipment

	Support Equipment - RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID	
1	Notebook	DELL	E5410	DoC	
2	Adapter for NB	DELL	HA65NM130	DoC	
3	AC Power Source	GW	APS-9102	-	
4	Test Fixture	LITE-ON	WCBN3512A_EVB	-	

Report No.: FR8O3112AC

Note: Support equipment No.4 was provided by customer, and it can be able to wake up the transmit/receive to complete the RF function test.

	Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID	
1	Notebook	DELL	E5410	-	
2	Adapter	DELL	LA90PS0-00	-	
3	Test Fixture	LITE-ON	WCBN3512A_EVB	-	
4	USB Cable	-	-	-	
5	Mouse(USB)	DELL	MS 111-L	-	
6	iPod	APPLE	A1199	-	

Note: Support equipment No.3 was provided by customer, and it can be able to wake up the transmit/receive to complete the RF function test.

	Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID	
1	Notebook	DELL	E5410	-	
2	Adapter	DELL	AA90PM111	-	
3	Test Fixture	LITE-ON	WCBN3512A_EVB	-	
4	USB Cable	-	-	-	
5	Mouse(USB)	DELL	MS 111-L	-	
6	iPod	APPLE	A1199	-	

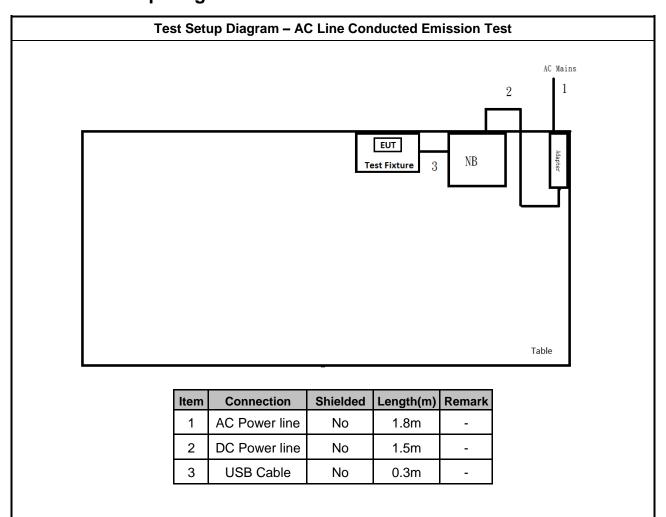
Note: Support equipment No.3 was provided by customer, and it can be able to wake up the transmit/receive to complete the RF function test.

TEL: 886-3-3273456 Page Number : 10 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2 Report Version : 01



2.5 Test Setup Diagram



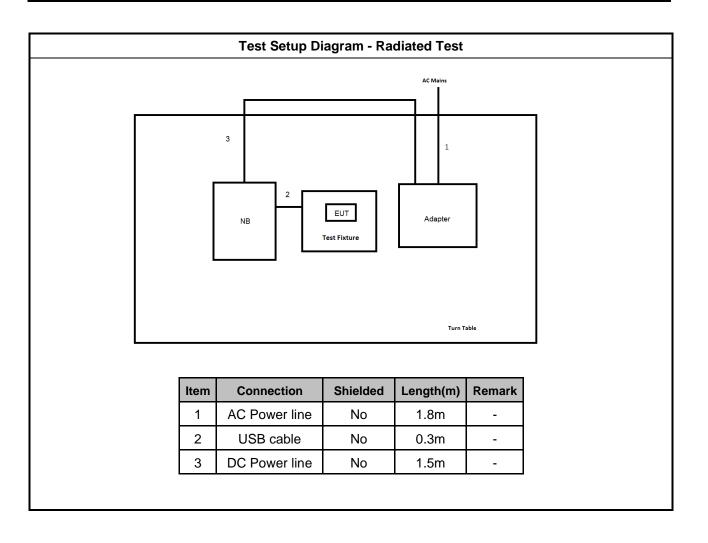
TEL: 886-3-3273456 Page Number : 11 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Issued Date : Jan. Report Version : 01

FCC Test Report No.: FR803112AC



TEL: 886-3-3273456 Page Number FAX: 886-3-3270973 Issued Date

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Issued Date : Jan. 10, 2019 Report Version : 01

: 12 of 23



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

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

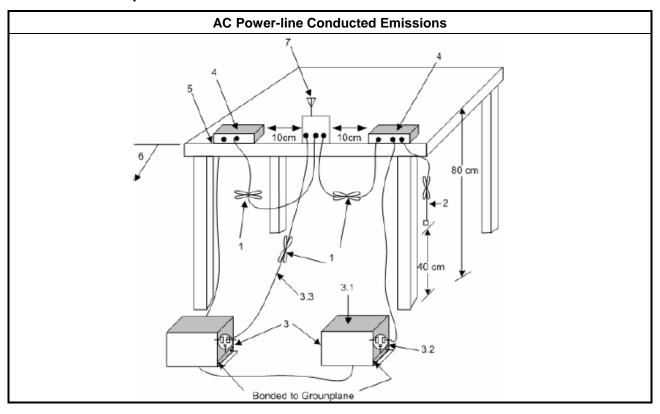
3.1.2 Measuring Instruments

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 cond	lucted emissions.

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

TEL: 886-3-3273456 Page Number : 13 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Report Version : 01

FCC Test Report No.: FR803112AC

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 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.							
	Refer as RSS-Gen, clause 6.7 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

TEL: 886-3-3273456 Page Number : 14 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

: 01

Report Template No.: HE1-C8 Ver3.2 Report Version

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:						
•	240	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: $P_{eirp} \le MAX(36, P_{Out} + G_{TX}) dBm$						
		- Aggregate power on all beams: $P_{eirp} \le MAX(36, [P_{Out} + G_{TX} + 8]) dBm$						
	P _{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G _{TX} = the maximum transmitting antenna directional gain in dBi.							

3.3.2 Measuring Instruments

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

TEL: 886-3-3273456 Page Number : 15 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

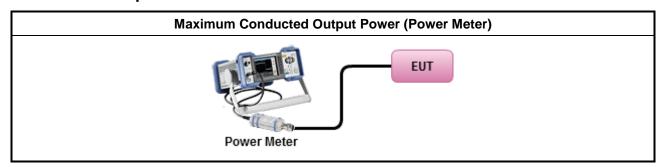
Report Version : 01

3.3.3 Test Procedures

	Test Method
•	Maximum Peak Conducted Output Power
	☐ Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
•	Maximum Average Conducted Output Power
	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a 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

Report No.: FR8O3112AC

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

TEL: 886-3-3273456 Page Number : 16 of 23
FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Version

: 01

Report Template No.: HE1-C8 Ver3.2

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit

Report No.: FR8O3112AC

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

3.4.2 Measuring Instruments

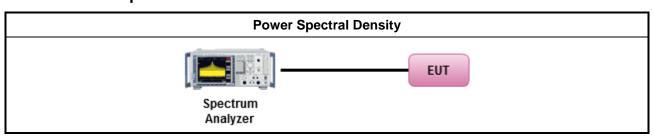
Refer a test equipment and calibration data table in this test report.

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 8.4 (11.10 of ANSI C63.10) Method PKPSD.
- 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

TEL: 886-3-3273456 Page Number : 17 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2 Report Version : 01

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.: FR8O3112AC

- 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.

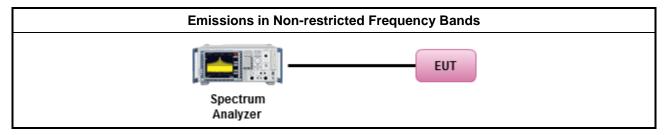
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method	
 Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands. 	

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

TEL: 886-3-3273456 Page Number : 18 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2 Report Version : 01

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					

Report No.: FR8O3112AC

: 01

- 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.
- Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.6.2 Measuring Instruments

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

TEL: 886-3-3273456 Page Number : 19 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2 Report Version

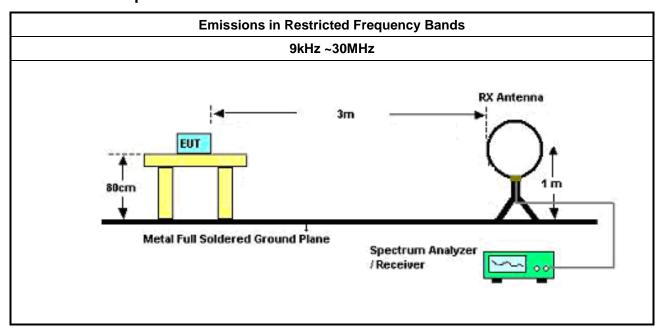
3.6.3 Test Procedures

Test Method

Report No.: FR8O3112AC

- 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 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
- For the transmitter band-edge emissions shall be measured using following options below:
 - Refer as KDB 558074 clause 8.7.1, 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 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
 - Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
- Use the following spectrum analyzer settings:
 - Set RBW=100 kHz for f < 1 GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.</p>
 - Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement. For average measurement, refer as 1.1.4.

3.6.4 Test Setup



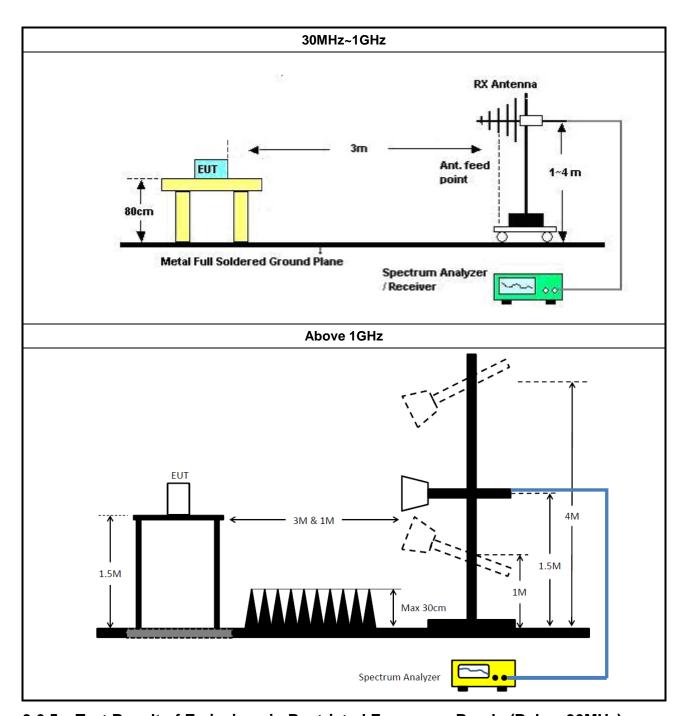
TEL: 886-3-3273456 Page Number : 20 of 23 FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Version

: 01

Report Template No.: HE1-C8 Ver3.2

Report No. : FR8O3112AC



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.

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

TEL: 886-3-3273456 Page Number FAX: 886-3-3270973 Issued Date

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Issued Date : Jan. 10, 2019

: 21 of 23

Report Version : 01



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	ESR	102051	9KHz ~ 3.6GHz	03/May/2018	02/May/2019
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	10/May/2018	09/May/2019
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	27/Apr/2018	26/Apr/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz ~ 44GHz	31/Jul/2018	30/Jul/2019
EMI Test Receiver	Rohde & Schwarz	ESCS 30	100354	9kHz ~ 2.75GHz	08/Dec/2017	07/Dec/2018
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	02/Oct/2018	03/Oct/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	09/Feb/2018	08/Feb/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
RF Cable-R03m	Jye Bao	RG142	CB031	9kHz ~ 1GHz	01/Feb/2018	31/Jan/2019
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	14/Mar/2018	13/Mar/2019

TEL: 886-3-3273456 Page Number : 22 of 23
FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Report Version : 01



FCC Test Report

Instrument for Conducted Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
RF Cable-1.5m	HUBER+ SUHNER	SUCOFLEX_104	MY12585/4	30MHz ~ 26.5GHz	26/Jan/2018	25/Jan/2019
RF Cable-0.2m	HUBER+ SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	26/Jan/2018	25/Jan/2019
RF Cable-0.2m	HUBER+ SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	26/Jan/2018	25/Jan/2019
Signal Generator	R&S	SMB100A	175727	100kHz~40GHz	26/Oct/2018	25/Oct/2019

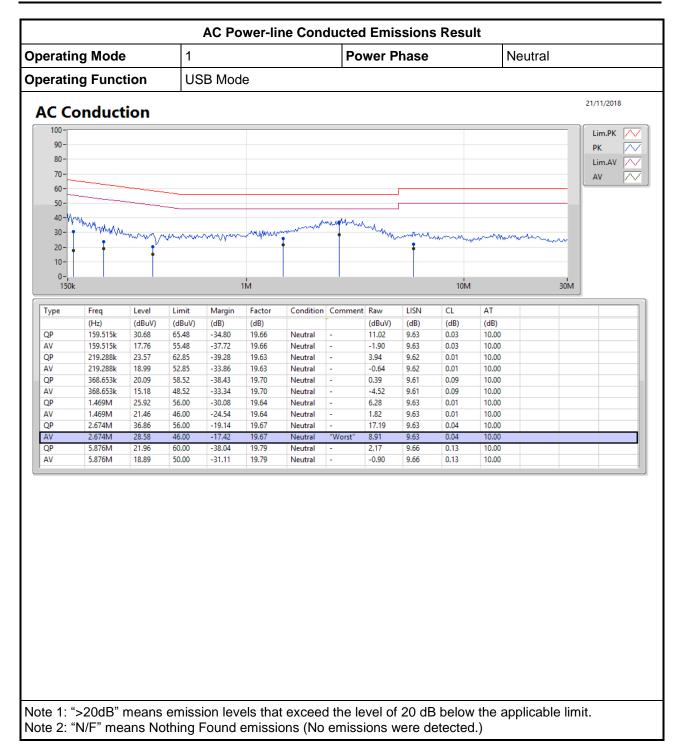
TEL: 886-3-3273456 Page Number : 23 of 23
FAX: 886-3-3270973 Issued Date : Jan. 10, 2019

Report Template No.: HE1-C8 Ver3.2

FCC ID: 2AIBX-NIU5L

Report Version : 01

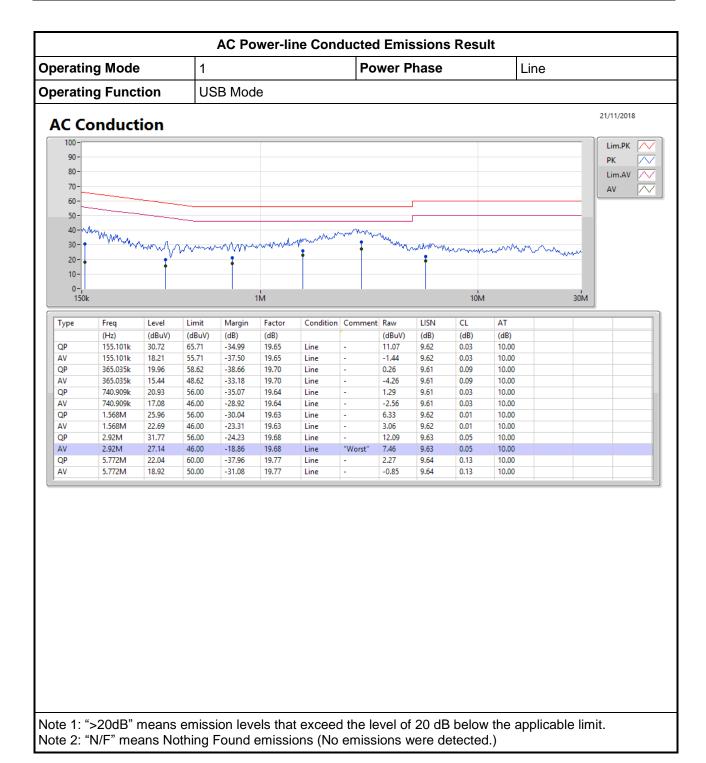




TEL: 886-3-327-3456 Page Number : A1 of A2

FAX: 886-3-327-0973





TEL: 886-3-327-3456 Page Number : A2 of A2

FAX: 886-3-327-0973



EBW Result Appendix B

Summary

Mode	Max-N dB	Max-OBW	ITU-Code	Min-N dB	Min-OBW
	(Hz)	(Hz)		(Hz)	(Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	10.05M	13.818M	13M8G1D	10.05M	13.743M
802.11g_Nss1,(6Mbps)_1TX	16.325M	26.412M	26M4D1D	16.3M	16.467M
802.11n HT20_Nss1,(MCS0)_1TX	17.55M	27.186M	27M2D1D	17.125M	17.641M

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;

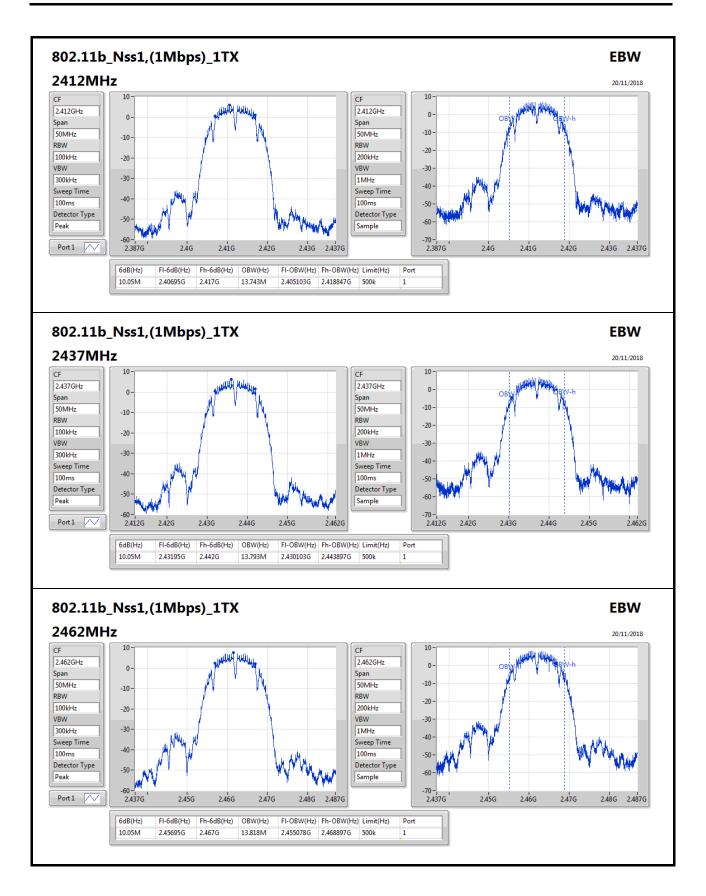
Result

Mode	Result	Limit	Port 1-N dB	Port 1-OBW
		(Hz)	(Hz)	(Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	10.05M	13.743M
2437MHz_TnomVnom	Pass	500k	10.05M	13.793M
2462MHz_TnomVnom	Pass	500k	10.05M	13.818M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.325M	16.467M
2437MHz_TnomVnom	Pass	500k	16.3M	26.412M
2462MHz_TnomVnom	Pass	500k	16.3M	16.467M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	17.55M	17.641M
2437MHz_TnomVnom	Pass	500k	17.125M	27.186M
2462MHz_TnomVnom	Pass	500k	17.55M	17.666M

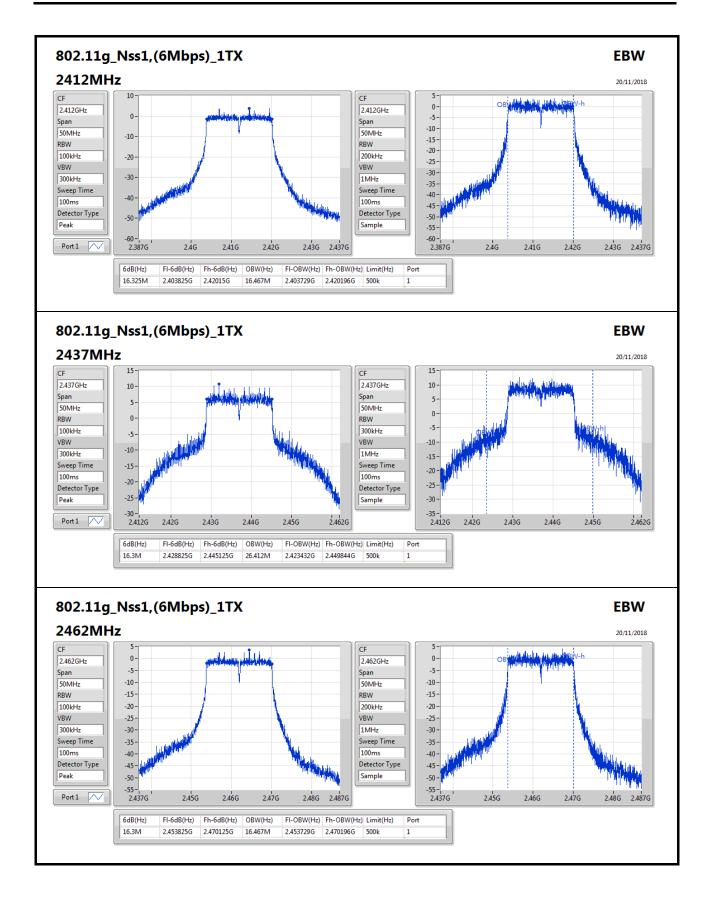
Port X-N dB = Port X 6dB down bandwidth; Port X-OBW = Port X 99% occupied bandwidth;

SPORTON INTERNATIONAL INC. Page No. : B1 of B4





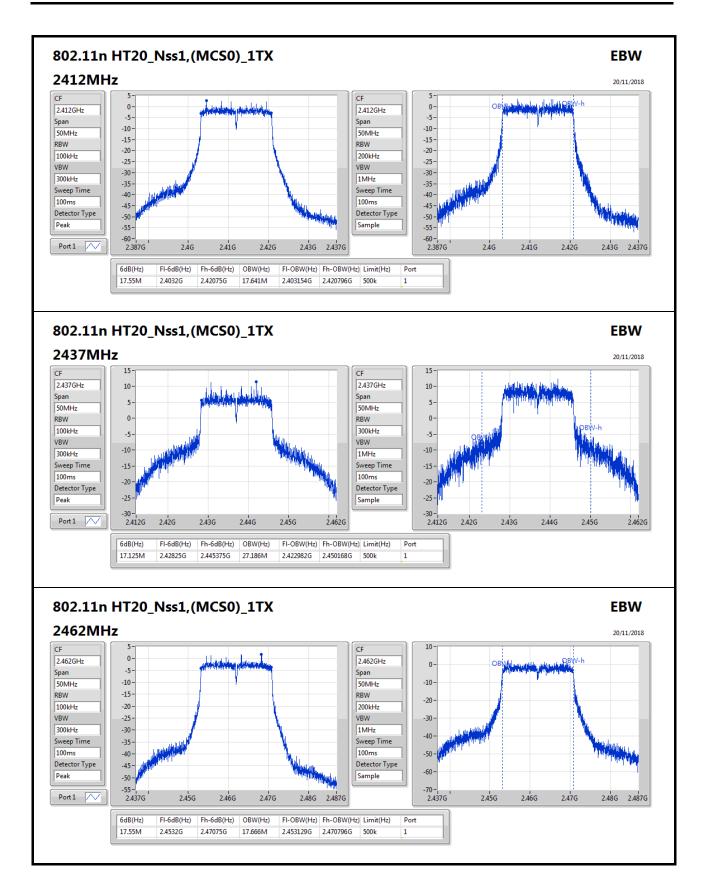




TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : B3 of B4

803112





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

803112



Appendix C **AV Power Result**

Summary

Mode	Total Power	Total Power
	(dBm)	(W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	17.90	0.06166
802.11g_Nss1,(6Mbps)_1TX	22.56	0.18030
802.11n HT20_Nss1,(MCS0)_1TX	22.50	0.17783

Result

Mode	Result	DG	Port 1	Total Power	Power Limit
		(dBi)	(dBm)	(dBm)	(dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.70	16.72	16.72	30.00
2437MHz_TnomVnom	Pass	1.70	16.41	16.41	30.00
2462MHz_TnomVnom	Pass	1.70	17.90	17.90	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.70	15.92	15.92	30.00
2417MHz_TnomVnom	Pass	1.70	17.23	17.23	30.00
2422MHz_TnomVnom	Pass	1.70	21.07	21.07	30.00
2427MHz_TnomVnom	Pass	1.70	22.08	22.08	30.00
2432MHz_TnomVnom	Pass	1.70	22.55	22.55	30.00
2437MHz_TnomVnom	Pass	1.70	22.56	22.56	30.00
2442MHz_TnomVnom	Pass	1.70	22.04	22.04	30.00
2447MHz_TnomVnom	Pass	1.70	20.76	20.76	30.00
2452MHz_TnomVnom	Pass	1.70	19.54	19.54	30.00
2457MHz_TnomVnom	Pass	1.70	18.07	18.07	30.00
2462MHz_TnomVnom	Pass	1.70	15.27	15.27	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.70	15.02	15.02	30.00
2417MHz_TnomVnom	Pass	1.70	17.53	17.53	30.00
2422MHz_TnomVnom	Pass	1.70	20.33	20.33	30.00
2427MHz_TnomVnom	Pass	1.70	21.78	21.78	30.00
2432MHz_TnomVnom	Pass	1.70	22.29	22.29	30.00
2437MHz_TnomVnom	Pass	1.70	22.50	22.50	30.00
2442MHz_TnomVnom	Pass	1.70	21.63	21.63	30.00
2447MHz_TnomVnom	Pass	1.70	20.58	20.58	30.00
2452MHz_TnomVnom	Pass	1.70	18.89	18.89	30.00
2457MHz_TnomVnom	Pass	1.70	17.67	17.67	30.00
2462MHz_TnomVnom	Pass	1.70	14.12	14.12	30.00

DG = Directional Gain; Port X = Port X output power Note : Conducted average output power is for reference only

SPORTON INTERNATIONAL INC. Page No. : C1 of C1

803112



Appendix D **PSD Result**

Summary

Mode	PD
	(dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-0.51
802.11g_Nss1,(6Mbps)_1TX	1.63
802.11n HT20_Nss1,(MCS0)_1TX	2.13

RBW=3kHz.

Result

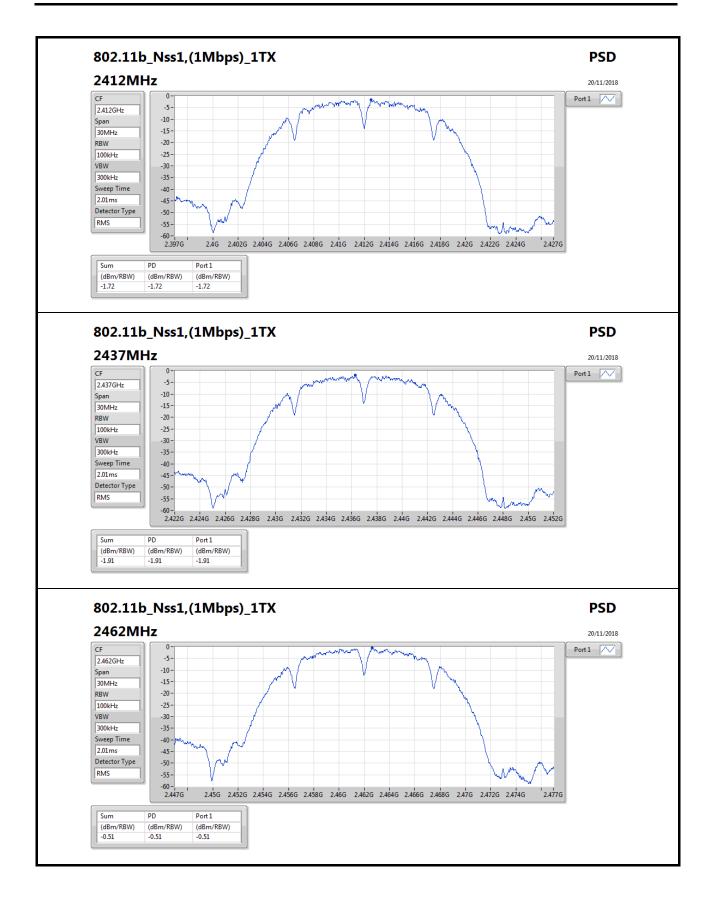
Mode	Result	DG	Port 1	PD	PD Limit
		(dBi)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.70	-1.72	-1.72	8.00
2437MHz_TnomVnom	Pass	1.70	-1.91	-1.91	8.00
2462MHz_TnomVnom	Pass	1.70	-0.51	-0.51	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.70	-4.68	-4.68	8.00
2437MHz_TnomVnom	Pass	1.70	1.63	1.63	8.00
2462MHz_TnomVnom	Pass	1.70	-5.31	-5.31	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.70	-5.78	-5.78	8.00
2437MHz_TnomVnom	Pass	1.70	2.13	2.13	8.00
2462MHz_TnomVnom	Pass	1.70	-6.71	-6.71	8.00

SPORTON INTERNATIONAL INC. Page No. : D1 of D4

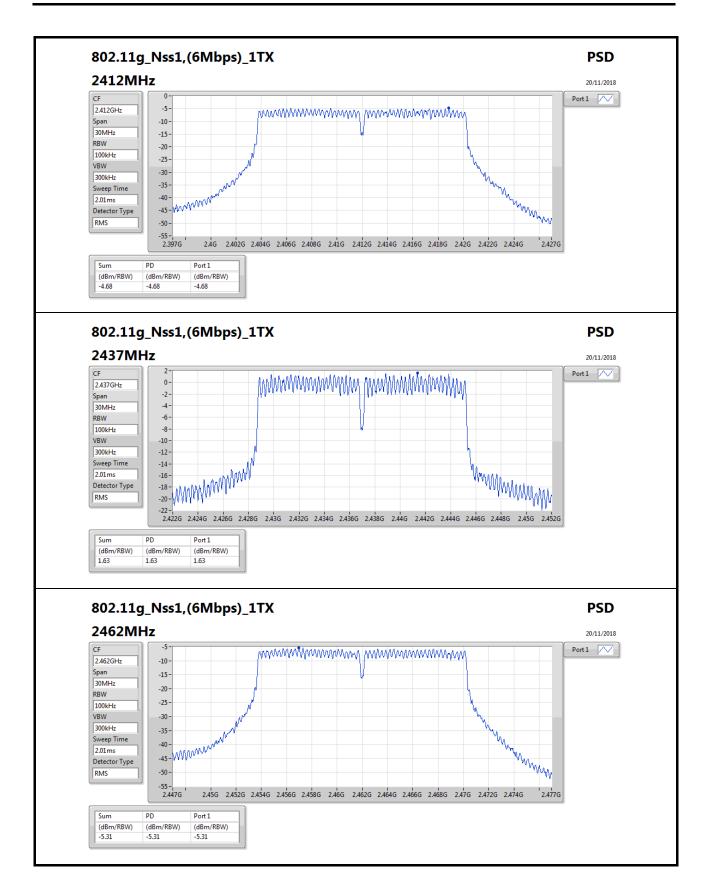
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DG = Directional Gain; RBW=3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port Xpower density;





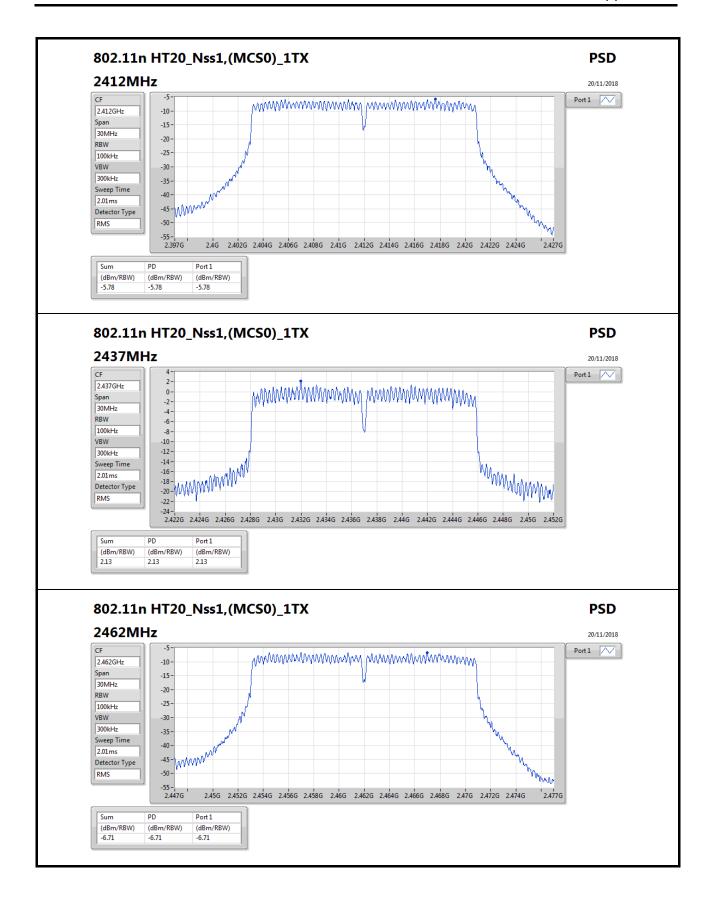




TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : D3 of D4

803112







CSE Non-restricted Band Result

Appendix E

Summary

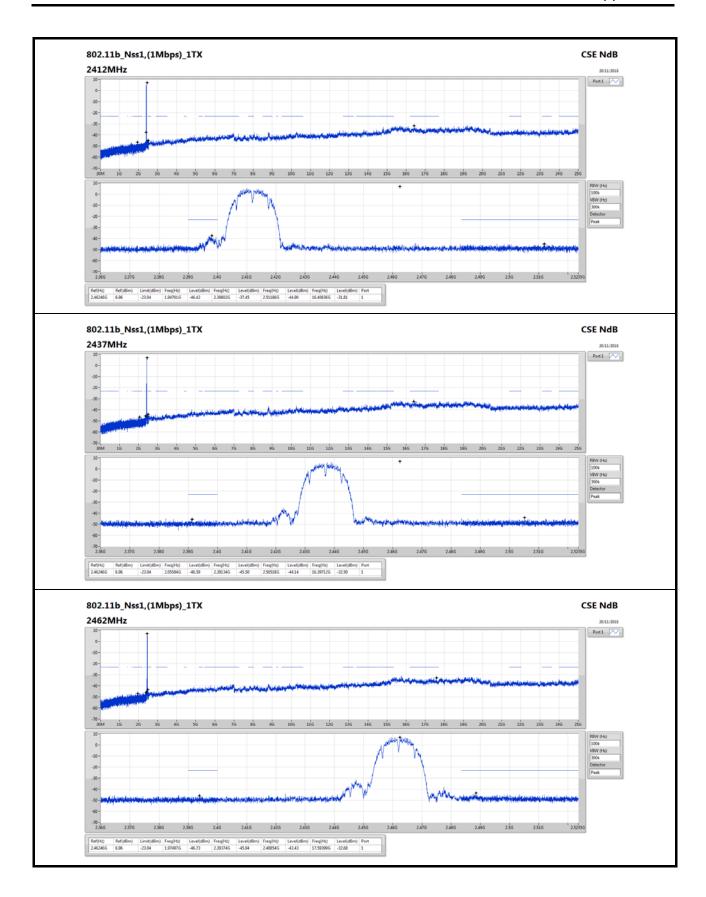
Mode	Result	Ref	Ref	Limit	Freq	Level	Freq	Level	Freq	Level	Freq	Level	Port
		(Hz)	(dBm)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	(Hz)	(dBm)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.46246G	6.96	-23.04	1.94701G	-46.42	2.39802G	-37.45	2.51186G	-44.90	16.40836G	-31.81	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.44238G	8.42	-21.58	2.1005G	-46.70	2.397G	-31.23	2.51932G	-44.36	17.13603G	-32.12	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.44225G	8.05	-21.95	2.16428G	-47.09	2.39086G	-44.64	2.4919G	-43.12	15.22272G	-30.85	1

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_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.46246G	6.96	-23.04	1.94701G	-46.42	2.39802G	-37.45	2.51186G	-44.90	16.40836G	-31.81	1
2437MHz_TnomVnom	Pass	2.46246G	6.96	-23.04	2.05594G	-46.59	2.39134G	-45.50	2.50518G	-44.14	16.39712G	-32.50	1
2462MHz_TnomVnom	Pass	2.46246G	6.96	-23.04	1.97497G	-46.73	2.39374G	-45.94	2.48854G	-43.43	17.59399G	-32.68	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-		•	-	-	-	-
2412MHz_TnomVnom	Pass	2.44238G	8.42	-21.58	2.1005G	-46.70	2.397G	-31.23	2.51932G	-44.36	17.13603G	-32.12	1
2437MHz_TnomVnom	Pass	2.44238G	8.42	-21.58	2.18059G	-46.66	2.39988G	-33.98	2.48362G	-39.98	15.2171G	-32.44	1
2462MHz_TnomVnom	Pass	2.44238G	8.42	-21.58	2.11855G	-46.49	2.39546G	-46.34	2.4838G	-43.28	16.43083G	-32.12	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.44225G	8.05	-21.95	2.11681G	-46.21	2.39986G	-31.21	2.49304G	-44.46	17.35518G	-32.31	1
2437MHz_TnomVnom	Pass	2.44225G	8.05	-21.95	1.99186G	-46.19	2.39998G	-32.63	2.48546G	-40.78	15.2171G	-31.68	1
2462MHz_TnomVnom	Pass	2.44225G	8.05	-21.95	2.16428G	-47.09	2.39086G	-44.64	2.4919G	-43.12	15.22272G	-30.85	1

SPORTON INTERNATIONAL INC. Page No. : E1 of E4

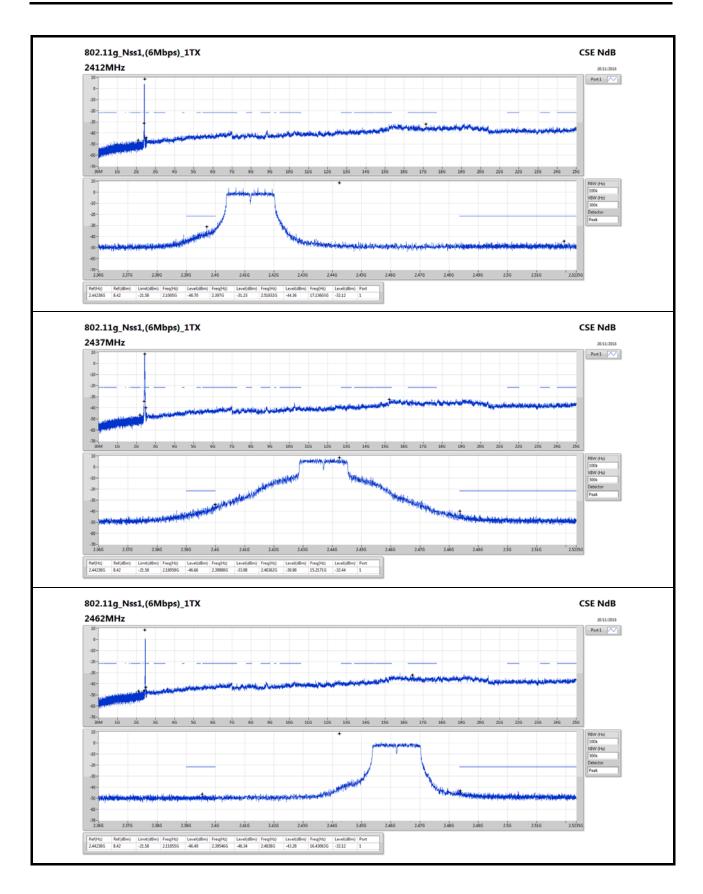




TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : E2 of E4

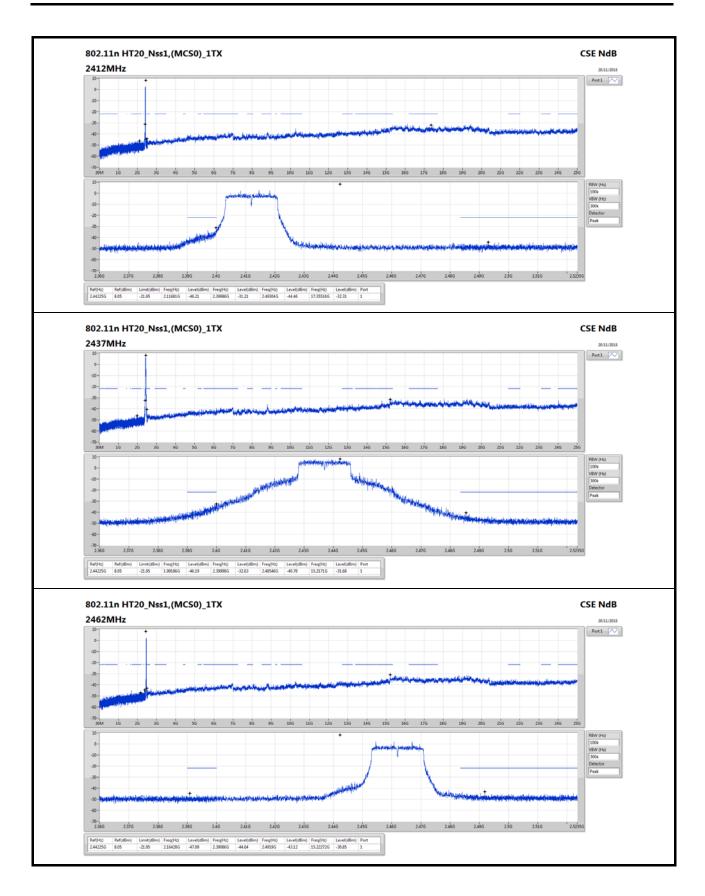
803112





TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : E3 of E4





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



RSE TX below 1GHz Result

Appendix F.1

803112

Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	30M	25.87	40.00	-14.13	-13.40	3	Vertical	360	3.00	-

SPORTON INTERNATIONAL INC. Page No. : F1 of F4



RSE TX below 1GHz Result

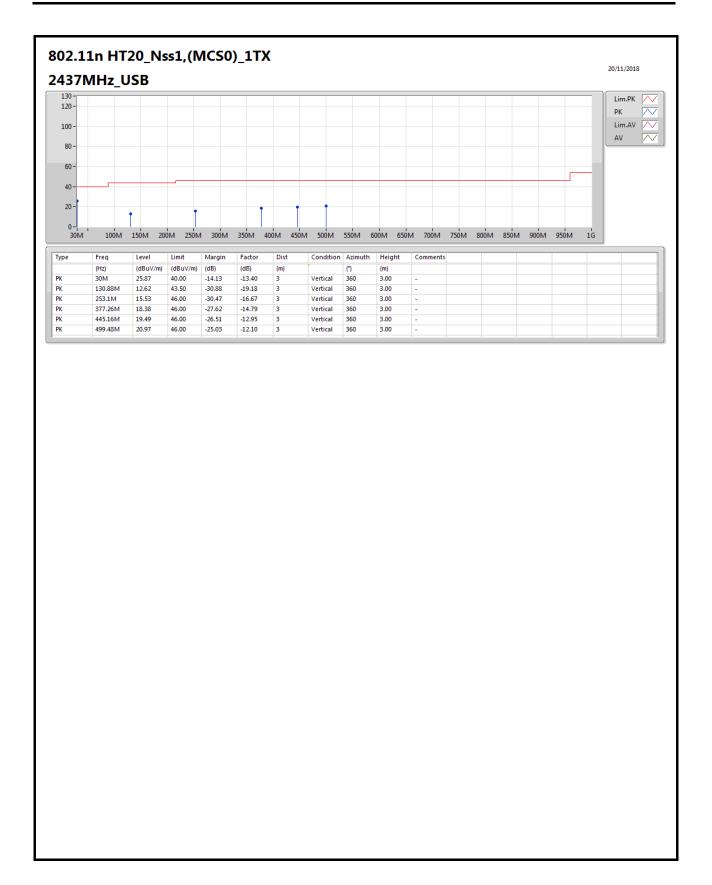
Appendix F.1

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 HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	30M	25.87	40.00	-14.13	-13.40	3	Vertical	360	3.00	-
2437MHz	Pass	PK	130.88M	12.62	43.50	-30.88	-19.18	3	Vertical	360	3.00	-
2437MHz	Pass	PK	253.1M	15.53	46.00	-30.47	-16.67	3	Vertical	360	3.00	-
2437MHz	Pass	PK	377.26M	18.38	46.00	-27.62	-14.79	3	Vertical	360	3.00	-
2437MHz	Pass	PK	445.16M	19.49	46.00	-26.51	-12.95	3	Vertical	360	3.00	-
2437MHz	Pass	PK	499.48M	20.97	46.00	-25.03	-12.10	3	Vertical	360	3.00	-
2437MHz	Pass	PK	30M	25.58	40.00	-14.42	-13.40	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	119.24M	12.34	43.50	-31.16	-19.33	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	255.04M	15.87	46.00	-30.13	-16.39	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	386.96M	17.88	46.00	-28.12	-14.48	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	499.48M	20.57	46.00	-25.43	-12.10	3	Horizontal	0	3.00	-
2437MHz	Pass	PK	745.86M	25.47	46.00	-20.53	-8.42	3	Horizontal	0	3.00	-

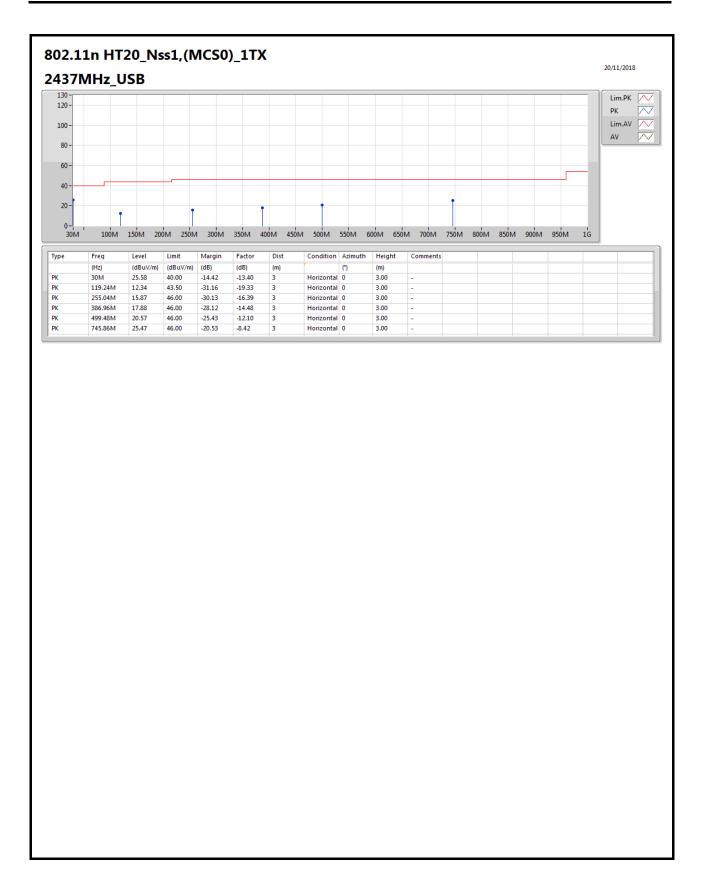
SPORTON INTERNATIONAL INC. Page No. : F2 of F4





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

Summary

Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	4.924G	51.79	54.00	-2.21	2.38	3	Horizontal	177	2.13	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	51.84	54.00	-2.16	31.11	3	Horizontal	129	1.29	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	2.3896G	51.79	54.00	-2.21	30.77	3	Horizontal	53	2.08	-

SPORTON INTERNATIONAL INC. Page No. : F1 of F75





Result

Result						1						
Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3862G	45.79	54.00	-8.21	30.76	3	Vertical	104	2.37	-
2412MHz	Pass	AV	2.4136G	100.91	Inf	-Inf	30.86	3	Vertical	104	2.37	-
2412MHz	Pass	PK	2.3898G	56.94	74.00	-17.06	30.77	3	Vertical	104	2.37	-
2412MHz	Pass	PK	2.4128G	103.34	Inf	-Inf	30.86	3	Vertical	104	2.37	-
2412MHz	Pass	AV	2.3862G	44.31	54.00	-9.69	30.76	3	Horizontal	133	1.42	-
2412MHz	Pass	AV	2.4138G	94.67	Inf	-Inf	30.86	3	Horizontal	133	1.42	-
2412MHz	Pass	PK	2.3898G	56.61	74.00	-17.39	30.77	3	Horizontal	133	1.42	-
2412MHz	Pass	PK	2.4128G	97.10	Inf	-Inf	30.86	3	Horizontal	133	1.42	-
2412MHz	Pass	AV	4.824G	43.14	54.00	-10.86	2.13	3	Vertical	349	1.50	-
2412MHz	Pass	PK	4.82406G	47.87	74.00	-26.13	2.13	3	Vertical	349	1.50	-
2412MHz	Pass	AV	4.824G	51.50	54.00	-2.50	2.13	3	Horizontal	122	2.09	-
2412MHz	Pass	PK	4.82394G	53.53	74.00	-20.47	2.13	3	Horizontal	122	2.09	-
2437MHz	Pass	AV	2.389G	42.27	54.00	-11.73	30.77	3	Vertical	109	1.86	-
2437MHz	Pass	AV	2.4362G	100.04	Inf	-Inf	30.94	3	Vertical	109	1.86	-
2437MHz	Pass	AV	2.4946G	43.00	54.00	-11.00	31.15	3	Vertical	109	1.86	-
2437MHz	Pass	PK	2.3498G	56.27	74.00	-17.73	30.63	3	Vertical	109	1.86	-
2437MHz	Pass	PK	2.4362G	102.64	Inf	-Inf	30.94	3	Vertical	109	1.86	-
2437MHz	Pass	PK	2.499G	56.62	74.00	-17.38	31.17	3	Vertical	109	1.86	-
2437MHz	Pass	AV	2.3898G	42.30	54.00	-11.70	30.77	3	Horizontal	128	1.11	-
2437MHz	Pass	AV	2.4354G	100.33	Inf	-Inf	30.94	3	Horizontal	128	1.11	-
2437MHz	Pass	AV	2.4994G	43.02	54.00	-10.98	31.17	3	Horizontal	128	1.11	_
2437MHz	Pass	PK	2.361G	55.33	74.00	-18.67	30.67	3	Horizontal	128	1.11	_
2437MHz	Pass	PK	2.4362G	103.14	Inf	-Inf	30.94	3	Horizontal	128	1.11	_
2437MHz	Pass	PK	2.4894G	55.96	74.00	-18.04	31.13	3	Horizontal	128	1.11	_
2437MHz	Pass	AV	4.874G	46.74	54.00	-7.26	2.25	3	Vertical	90	2.01	
2437MHz	Pass	PK	4.874G	50.20	74.00	-23.80	2.25	3	Vertical	90	2.01	
2437MHz	Pass	AV	4.874G	51.25	54.00	-2.75	2.25	3	Horizontal	122	2.18	
2437MHz	Pass	PK	4.874G	53.50	74.00	-20.50	2.25	3	Horizontal	122	2.18	-
2462MHz	Pass	AV	2.4602G	102.14	Inf	-20.30 -Inf	31.03	3	Vertical	77	2.08	
2462MHz	Pass	AV	2.4835G	50.09	54.00	-3.91	31.11	3	Vertical	77	2.08	
	_	PK	2.461G	104.43		-5.71 -Inf	31.03	3	Vertical	77	2.08	-
2462MHz 	Pass	PK	2.4842G	58.09	74.00	-15.91	31.12	3	Vertical	77	2.08	-
2462MHz	Pass	AV	2.4602G	94.86	Inf	-15.71 -Inf	31.03	3	Horizontal	32	1.06	-
2462MHz	Pass	AV	2.4835G	46.84	54.00	-7.16	31.11	3	Horizontal	32	1.06	
									Horizontal			
2462MHz	Pass	PK	2.461G	97.32	Inf	-Inf	31.03	3		32	1.06	-
2462MHz	Pass	PK	2.488G	56.94	74.00	-17.06	31.13	3	Horizontal	32	1.06	-
2462MHz	Pass	AV	4.924G	47.19	54.00	-6.81	2.38	3	Vertical	99	1.54	-
2462MHz	Pass	PK	4.92394G	50.30	74.00	-23.70	2.38	3	Vertical	99	1.54	-
2462MHz	Pass	AV	4.924G	51.79	54.00	-2.21	2.38	3	Horizontal	177	2.13	-
2462MHz	Pass	PK	4.92388G	53.71	74.00	-20.29	2.38	3	Horizontal	177	2.13	-
802.11g_Nss1,(6Mbps)_1TX		-				- 224		-		100	-	-
2412MHz	Pass	AV	2.39G	51.76	54.00	-2.24	30.77	3	Vertical	102	2.37	-
2412MHz	Pass	AV	2.4176G	96.99	Inf	-Inf	30.87	3	Vertical	102	2.37	-
2412MHz	Pass	PK	2.3892G	64.80	74.00	-9.20	30.77	3	Vertical	102	2.37	-
2412MHz	Pass	PK	2.41G	106.70	Inf	-Inf	30.85	3	Vertical	102	2.37	-
2412MHz	Pass	AV	2.39G	49.89	54.00	-4.11	30.77	3	Horizontal	135	1.43	-
2412MHz	Pass	AV	2.4178G	96.18	Inf	-Inf	30.87	3	Horizontal	135	1.43	-

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F2 of F75





Peace	Mode	Decult	Tumo	From	Laval	Limit	Morain	Factor	Diet	Condition	A minor oth	Holmhi	Comments
2417/460	wode	Result	туре	•						Condition			Comments
2412/88	0.4404.81	-	B1/										
2417MBU										-		-	-
2417M87													-
2417M12										-			-
2417MHz										-			-
2417MHz										-			-
2417ANE										-			-
2417MHz													-
2417MHz										-			-
2417Mriz										-			-
2417MHz										-			-
Pass PK 2.3884G 64.96 74.00 -9.04 30.77 3 Hotzental 44 2.11	2417MHz	Pass	AV	2.3898G		54.00	-3.28	30.77		Horizontal	44	2.11	-
2417MHz	2417MHz	Pass	AV	2.4132G	97.99	Inf	-Inf	30.86	3	Horizontal	44	2.11	-
2422MHz	2417MHz	Pass	PK	2.3884G	64.96	74.00	-9.04	30.77	3	Horizontal	44	2.11	-
2422Metz	2417MHz	Pass	PK	2.42G	108.59	Inf	-Inf	30.89	3	Horizontal	44	2.11	-
Pass	2422MHz	Pass	AV	2.3898G	51.07	54.00	-2.93	30.77	3	Vertical	109	2.15	-
Pass	2422MHz	Pass	AV	2.427G	100.63	Inf	-Inf	30.91	3	Vertical	109	2.15	-
2422MHz	2422MHz	Pass	PK	2.3896G	64.92	74.00	-9.08	30.77	3	Vertical	109	2.15	-
2422MHz	2422MHz	Pass	PK	2.4236G	110.38	Inf	-Inf	30.90	3	Vertical	109	2.15	-
2427MHz	2422MHz	Pass	AV	2.39G	51.51	54.00	-2.49	30.77	3	Horizontal	43	2.08	-
2427MHz	2422MHz	Pass	AV	2.415G	100.89	Inf	-Inf	30.86	3	Horizontal	43	2.08	-
2427MHz	2422MHz	Pass	PK	2.3892G	64.16	74.00	-9.84	30.77	3	Horizontal	43	2.08	-
Pass AV 2.423G 101.98 Inf Inf 30.89 3 Vertical 97 2.65 2.427MHz Pass PK 2.3892G 64.12 74.00 -9.88 30.77 3 Vertical 97 2.65 2.427MHz Pass PK 2.4288G 111.91 Inf Inf 30.91 3 Vertical 97 2.65 2.427MHz Pass AV 2.3898G 50.30 54.00 -3.70 30.77 3 Horizontal 43 2.07 2.427MHz Pass AV 2.4212G 101.81 Inf Inf 30.89 3 Horizontal 43 2.07 2.427MHz Pass PK 2.3894G 66.55 74.00 -7.45 30.77 3 Horizontal 43 2.07 2.427MHz Pass PK 2.4212G 111.70 Inf Inf 30.89 3 Horizontal 43 2.07 2.427MHz Pass PK 2.4212G 111.70 Inf Inf 30.89 3 Horizontal 43 2.07 2.427MHz Pass AV 2.39G 47.26 54.00 -6.74 30.77 3 Vertical 30 1.47 2.432MHz Pass AV 2.4268G 98.02 Inf Inf 30.91 3 Vertical 30 1.47 2.432MHz Pass AV 2.4283G 46.11 54.00 -7.89 31.11 3 Vertical 30 1.47 2.432MHz Pass PK 2.433G 108.06 Inf Inf 30.91 3 Vertical 30 1.47 2.432MHz Pass PK 2.433G 108.06 Inf Inf 30.91 3 Vertical 30 1.47 2.432MHz Pass PK 2.483G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2.432MHz Pass PK 2.483G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2.432MHz Pass PK 2.483G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2.432MHz Pass PK 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62 2.432MHz Pass PK 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62 2.432MHz Pass PK 2.484G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2.432MHz Pass PK 2.484G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2.432MHz Pass PK 2.484G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2.432MHz Pass PK 2.484G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2.432MHz Pass PK 2.484G 63.19 7	2422MHz	Pass	PK	2.4184G	110.82	Inf	-Inf	30.87	3	Horizontal	43	2.08	-
Pass PK 2,3892G 64.12 74.00 .9.88 30.77 3 Vertical 97 2.65 2427MHz Pass PK 2,4288G 111.91 Inf .1nf 30.91 3 Vertical 97 2.65 2427MHz Pass AV 2,3898G 50.30 54.00 .3.70 30.77 3 Horizontal 43 2.07 2427MHz Pass AV 2,4212G 101.81 Inf .1nf 30.89 3 Horizontal 43 2.07 2427MHz Pass PK 2,3894G 66.55 74.00 .7.45 30.77 3 Horizontal 43 2.07 2427MHz Pass PK 2,4212G 111.70 Inf .1nf 30.89 3 Horizontal 43 2.07 2427MHz Pass PK 2,4212G 111.70 Inf .1nf 30.89 3 Horizontal 43 2.07 2432MHz Pass AV 2.39G 47.26 54.00 -6.74 30.77 3 Vertical 30 1.47 2432MHz Pass AV 2,4268G 98.02 Inf .1nf 30.91 3 Vertical 30 1.47 2432MHz Pass AV 2,4283G 46.11 54.00 .7.89 31.11 3 Vertical 30 1.47 2432MHz Pass PK 2,3884G 62.27 74.00 .11.73 30.77 3 Vertical 30 1.47 2432MHz Pass PK 2,433G 108.06 Inf .1nf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2,433G 108.06 Inf .1nf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2,483G 61.60 74.00 .12.40 31.11 3 Vertical 30 1.47 2432MHz Pass PK 2,483G 61.60 74.00 .12.40 31.11 3 Vertical 30 1.47 2432MHz Pass PK 2,483G 61.60 74.00 .2.28 30.77 3 Horizontal 43 2.62 2432MHz Pass AV 2.426G 102.55 Inf .1nf 30.90 3 Horizontal 43 2.62 2432MHz Pass PK 2.484G 48.42 54.00 .5.58 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.484G 63.19 74.00 .10.81 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.484G 63.19 74.00 .10.81 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.484G 63.19 74.00 .10.81 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.484G 63.19 74.00 .10.81 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.484G 50.00 54.00 54.0	2427MHz	Pass	AV	2.39G	48.83	54.00	-5.17	30.77	3	Vertical	97	2.65	-
2427MHz	2427MHz	Pass	AV	2.423G	101.98	Inf	-Inf	30.89	3	Vertical	97	2.65	-
2427MHz	2427MHz	Pass	PK	2.3892G	64.12	74.00	-9.88	30.77	3	Vertical	97	2.65	-
AV 2.4212G 101.81	2427MHz	Pass	PK	2.4288G	111.91	Inf	-Inf	30.91	3	Vertical	97	2.65	-
2427MHz Pass PK 2.3894G 66.55 74.00 -7.45 30.77 3 Horizontal 43 2.07 2427MHz Pass PK 2.4212G 111.70 Inf -Inf 30.89 3 Horizontal 43 2.07 2432MHz Pass AV 2.39G 47.26 54.00 -6.74 30.77 3 Vertical 30 1.47 2432MHz Pass AV 2.4268G 98.02 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass AV 2.4835G 46.11 54.00 -7.89 31.11 3 Vertical 30 1.47 2432MHz Pass PK 2.438G 108.06 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2.433G 108.06 Inf -Inf 30.91 3 Vertical 30 1.47 24	2427MHz	Pass	AV	2.3898G	50.30	54.00	-3.70	30.77	3	Horizontal	43	2.07	-
2427MHz Pass PK 2.4212G 111.70 Inf -Inf 30.89 3 Horizontal 43 2.07 2432MHz Pass AV 2.39G 47.26 54.00 -6.74 30.77 3 Vertical 30 1.47 2432MHz Pass AV 2.4268G 98.02 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass AV 2.4835G 46.11 54.00 -7.89 31.11 3 Vertical 30 1.47 2432MHz Pass PK 2.3884G 62.27 74.00 -11.73 30.77 3 Vertical 30 1.47 2432MHz Pass PK 2.43G 108.06 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2.4835G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47	2427MHz	Pass	AV	2.4212G	101.81	Inf	-Inf	30.89	3	Horizontal	43	2.07	-
2432MHz Pass AV 2.39G 47.26 54.00 -6.74 30.77 3 Vertical 30 1.47 2432MHz Pass AV 2.4268G 98.02 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass AV 2.4835G 46.11 54.00 -7.89 31.11 3 Vertical 30 1.47 2432MHz Pass PK 2.3884G 62.27 74.00 -11.73 30.77 3 Vertical 30 1.47 2432MHz Pass PK 2.43G 108.06 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2.435G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2432MHz Pass AV 2.39G 51.72 54.00 -2.28 30.77 3 Horizontal 43 2.62 2	2427MHz	Pass	PK	2.3894G	66.55	74.00	-7.45	30.77	3	Horizontal	43	2.07	-
2432MHz Pass AV 2.4268G 98.02 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass AV 2.4835G 46.11 54.00 -7.89 31.11 3 Vertical 30 1.47 2432MHz Pass PK 2.3884G 62.27 74.00 -11.73 30.77 3 Vertical 30 1.47 2432MHz Pass PK 2.43G 108.06 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2.4835G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2432MHz Pass AV 2.39G 51.72 54.00 -2.28 30.77 3 Horizontal 43 2.62 2432MHz Pass AV 2.484G 102.55 Inf -Inf 30.90 3 Horizontal 43 2.62 <td< td=""><td>2427MHz</td><td>Pass</td><td>PK</td><td>2.4212G</td><td>111.70</td><td>Inf</td><td>-Inf</td><td>30.89</td><td>3</td><td>Horizontal</td><td>43</td><td>2.07</td><td>-</td></td<>	2427MHz	Pass	PK	2.4212G	111.70	Inf	-Inf	30.89	3	Horizontal	43	2.07	-
2432MHz Pass AV 2.4835G 46.11 54.00 -7.89 31.11 3 Vertical 30 1.47 2432MHz Pass PK 2.3884G 62.27 74.00 -11.73 30.77 3 Vertical 30 1.47 2432MHz Pass PK 2.43G 108.06 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2.4835G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2432MHz Pass AV 2.39G 51.72 54.00 -2.28 30.77 3 Horizontal 43 2.62 2432MHz Pass AV 2.426G 102.55 Inf -Inf 30.90 3 Horizontal 43 2.62 2432MHz Pass AV 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62	2432MHz	Pass	AV	2.39G	47.26	54.00	-6.74	30.77	3	Vertical	30	1.47	-
2432MHz Pass PK 2.3884G 62.27 74.00 -11.73 30.77 3 Vertical 30 1.47 2432MHz Pass PK 2.43G 108.06 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2.4835G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2432MHz Pass AV 2.39G 51.72 54.00 -2.28 30.77 3 Horizontal 43 2.62 2432MHz Pass AV 2.426G 102.55 Inf -Inf 30.90 3 Horizontal 43 2.62 2432MHz Pass AV 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.484G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62	2432MHz	Pass	AV	2.4268G	98.02	Inf	-Inf	30.91	3	Vertical	30	1.47	-
2432MHz Pass PK 2.43G 108.06 Inf -Inf 30.91 3 Vertical 30 1.47 2432MHz Pass PK 2.4835G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2432MHz Pass AV 2.39G 51.72 54.00 -2.28 30.77 3 Horizontal 43 2.62 2432MHz Pass AV 2.426G 102.55 Inf -Inf 30.90 3 Horizontal 43 2.62 2432MHz Pass AV 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.3892G 67.33 74.00 -6.67 30.77 3 Horizontal 43 2.62 2432MHz Pass PK 2.4284G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62	2432MHz	Pass	AV	2.4835G	46.11	54.00	-7.89	31.11	3	Vertical	30	1.47	-
2432MHz Pass PK 2.4835G 61.60 74.00 -12.40 31.11 3 Vertical 30 1.47 2432MHz Pass AV 2.39G 51.72 54.00 -2.28 30.77 3 Horizontal 43 2.62 2432MHz Pass AV 2.426G 102.55 Inf -Inf 30.90 3 Horizontal 43 2.62 2432MHz Pass AV 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.3892G 67.33 74.00 -6.67 30.77 3 Horizontal 43 2.62 2432MHz Pass PK 2.4284G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62 2432MHz Pass PK 2.4848G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62	2432MHz	Pass	PK	2.3884G	62.27	74.00	-11.73	30.77	3	Vertical	30	1.47	-
2432MHz Pass AV 2.39G 51.72 54.00 -2.28 30.77 3 Horizontal 43 2.62 2432MHz Pass AV 2.426G 102.55 Inf -Inf 30.90 3 Horizontal 43 2.62 2432MHz Pass AV 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.3892G 67.33 74.00 -6.67 30.77 3 Horizontal 43 2.62 2432MHz Pass PK 2.4284G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62 2432MHz Pass PK 2.484G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2437MHz Pass PK 2.484G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62	2432MHz	Pass	PK	2.43G	108.06	Inf	-Inf	30.91	3	Vertical	30	1.47	-
2432MHz Pass AV 2.426G 102.55 Inf -Inf 30.90 3 Horizontal 43 2.62 2432MHz Pass AV 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.3892G 67.33 74.00 -6.67 30.77 3 Horizontal 43 2.62 2432MHz Pass PK 2.4284G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62 2432MHz Pass PK 2.4848G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2437MHz Pass AV 2.389G 50.40 54.00 -3.60 30.77 3 Vertical 103 2.14 2437MHz Pass AV 2.4306G 101.95 Inf -Inf 30.92 3 Vertical 103 2.14	2432MHz	Pass	PK	2.4835G	61.60	74.00	-12.40	31.11	3	Vertical	30	1.47	-
2432MHz Pass AV 2.484G 48.42 54.00 -5.58 31.12 3 Horizontal 43 2.62 2432MHz Pass PK 2.3892G 67.33 74.00 -6.67 30.77 3 Horizontal 43 2.62 2432MHz Pass PK 2.4284G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62 2432MHz Pass PK 2.4848G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2437MHz Pass AV 2.389G 50.40 54.00 -3.60 30.77 3 Vertical 103 2.14 2437MHz Pass AV 2.4306G 101.95 Inf -Inf 30.92 3 Vertical 103 2.14	2432MHz	Pass	AV	2.39G	51.72	54.00	-2.28	30.77	3	Horizontal	43	2.62	-
2432MHz Pass PK 2.3892G 67.33 74.00 -6.67 30.77 3 Horizontal 43 2.62 2432MHz Pass PK 2.4284G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62 2432MHz Pass PK 2.4848G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2437MHz Pass AV 2.389G 50.40 54.00 -3.60 30.77 3 Vertical 103 2.14 2437MHz Pass AV 2.4306G 101.95 Inf -Inf 30.92 3 Vertical 103 2.14	2432MHz	Pass	AV	2.426G	102.55	Inf	-Inf	30.90	3	Horizontal	43	2.62	-
2432MHz Pass PK 2.3892G 67.33 74.00 -6.67 30.77 3 Horizontal 43 2.62 2432MHz Pass PK 2.4284G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62 2432MHz Pass PK 2.4848G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2437MHz Pass AV 2.389G 50.40 54.00 -3.60 30.77 3 Vertical 103 2.14 2437MHz Pass AV 2.4306G 101.95 Inf -Inf 30.92 3 Vertical 103 2.14	2432MHz	Pass	AV	2.484G	48.42	54.00	-5.58	31.12	3	Horizontal	43	2.62	-
2432MHz Pass PK 2.4284G 112.42 Inf -Inf 30.91 3 Horizontal 43 2.62 2432MHz Pass PK 2.4848G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2437MHz Pass AV 2.389G 50.40 54.00 -3.60 30.77 3 Vertical 103 2.14 2437MHz Pass AV 2.4306G 101.95 Inf -Inf 30.92 3 Vertical 103 2.14													-
2432MHz Pass PK 2.4848G 63.19 74.00 -10.81 31.12 3 Horizontal 43 2.62 2437MHz Pass AV 2.389G 50.40 54.00 -3.60 30.77 3 Vertical 103 2.14 2437MHz Pass AV 2.4306G 101.95 Inf -Inf 30.92 3 Vertical 103 2.14	2432MHz	Pass	PK	2.4284G					3				-
2437MHz Pass AV 2.389G 50.40 54.00 -3.60 30.77 3 Vertical 103 2.14 2437MHz Pass AV 2.4306G 101.95 Inf -Inf 30.92 3 Vertical 103 2.14													
2437MHz Pass AV 2.4306G 101.95 Inf -Inf 30.92 3 Vertical 103 2.14													
										-		-	-
	2437MHz	Pass	AV	2.4835G	50.82	54.00	-3.18	31.11	3	Vertical	103	2.14	
2437MHz Pass PK 2.3894G 67.34 74.00 -6.66 30.77 3 Vertical 103 2.14													
2437MHz Pass PK 2.4398G 111.53 Inf -Inf 30.95 3 Vertical 103 2.14													
2437MHz Pass PK 2.4866G 66.58 74.00 -7.42 31.12 3 Vertical 103 2.14													
2437MHz Pass AV 2.3898G 49.79 54.00 -4.21 30.77 3 Horizontal 135 1.36													-

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F3 of F75





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	2.4322G	101.59	Inf	-Inf	30.93	3	Horizontal	135	1.36	-
2437MHz	Pass	AV	2.4835G	51.36	54.00	-2.64	31.11	3	Horizontal	135	1.36	-
2437MHz	Pass	PK	2.3882G	66.01	74.00	-7.99	30.77	3	Horizontal	135	1.36	-
2437MHz	Pass	PK	2.4302G	111.41	Inf	-Inf	30.91	3	Horizontal	135	1.36	-
2437MHz	Pass	PK	2.4846G	67.23	74.00	-6.77	31.12	3	Horizontal	135	1.36	-
2437MHz	Pass	AV	4.87538G	39.08	54.00	-14.92	2.26	3	Vertical	320	2.74	-
2437MHz	Pass	PK	4.87244G	52.62	74.00	-21.38	2.25	3	Vertical	320	2.74	-
2437MHz	Pass	AV	4.8731G	41.47	54.00	-12.53	2.25	3	Horizontal	122	1.98	-
2437MHz	Pass	PK	4.8776G	54.54	74.00	-19.46	2.26	3	Horizontal	122	1.98	-
2442MHz	Pass	AV	2.3896G	44.10	54.00	-9.90	30.77	3	Vertical	121	2.10	-
2442MHz	Pass	AV	2.4432G	100.22	Inf	-Inf	30.96	3	Vertical	121	2.10	-
2442MHz	Pass	AV	2.4835G	51.58	54.00	-2.42	31.11	3	Vertical	121	2.10	-
2442MHz	Pass	PK	2.3444G	55.70	74.00	-18.30	30.61	3	Vertical	121	2.10	-
2442MHz	Pass	PK	2.4396G	110.46	Inf	-Inf	30.95	3	Vertical	121	2.10	-
2442MHz	Pass	PK	2.484G	70.04	74.00	-3.96	31.12	3	Vertical	121	2.10	-
2442MHz	Pass	AV	2.39G	44.66	54.00	-9.34	30.77	3	Horizontal	40	1.80	-
2442MHz	Pass	AV	2.4364G	101.50	Inf	-Inf	30.94	3	Horizontal	40	1.80	-
2442MHz	Pass	AV	2.4835G	51.80	54.00	-2.20	31.11	3	Horizontal	40	1.80	-
2442MHz	Pass	PK	2.3856G	57.21	74.00	-16.79	30.76	3	Horizontal	40	1.80	-
2442MHz	Pass	PK	2.4372G	111.11	Inf	-Inf	30.94	3	Horizontal	40	1.80	-
2442MHz	Pass	PK	2.4856G	67.90	74.00	-6.10	31.12	3	Horizontal	40	1.80	-
2447MHz	Pass	AV	2.4416G	100.70	Inf	-Inf	30.96	3	Vertical	41	2.54	-
2447MHz	Pass	AV	2.4835G	49.73	54.00	-4.27	31.11	3	Vertical	41	2.54	-
2447MHz	Pass	PK	2.4418G	110.45	Inf	-Inf	30.96	3	Vertical	41	2.54	-
2447MHz	Pass	PK	2.4835G	67.15	74.00	-6.85	31.11	3	Vertical	41	2.54	-
2447MHz	Pass	AV	2.4528G	100.84	Inf	-Inf	31.00	3	Horizontal	45	2.25	-
2447MHz	Pass	AV	2.4836G	51.45	54.00	-2.55	31.11	3	Horizontal	45	2.25	-
2447MHz	Pass	PK	2.4518G	110.54	Inf	-Inf	31.00	3	Horizontal	45	2.25	-
2447MHz	Pass	PK	2.4838G	67.85	74.00	-6.15	31.11	3	Horizontal	45	2.25	-
2452MHz	Pass	AV	2.4458G	99.41	Inf	-Inf	30.98	3	Vertical	93	2.07	-
2452MHz	Pass	AV	2.4835G	51.78	54.00	-2.22	31.11	3	Vertical	93	2.07	-
2452MHz	Pass	PK	2.45G	109.62	Inf	-Inf	30.99	3	Vertical	93	2.07	-
2452MHz	Pass	PK	2.4835G	66.97	74.00	-7.03	31.11	3	Vertical	93	2.07	-
2452MHz	Pass	AV	2.453G	99.17	Inf	-Inf	31.00	3	Horizontal	45	2.04	-
2452MHz	Pass	AV	2.484G	50.02	54.00	-3.98	31.12	3	Horizontal	45	2.04	-
2452MHz	Pass	PK	2.4556G	109.04	Inf	-Inf	31.01	3	Horizontal	45	2.04	
2452MHz	Pass	PK	2.4838G	64.90	74.00	-9.10	31.11	3	Horizontal	45	2.04	-
2457MHz	Pass	AV	2.4522G	97.72	Inf	-Inf	31.00	3	Vertical	106	2.08	-
2457MHz	Pass	AV	2.4836G	51.65	54.00	-2.35	31.11	3	Vertical	106	2.08	-
2457MHz	Pass	PK	2.4532G	107.31	Inf	-Inf	31.00	3	Vertical	106	2.08	-
2457MHz	Pass	PK	2.484G	66.03	74.00	-7.97	31.12	3	Vertical	106	2.08	-
2457MHz	Pass	AV	2.463G	97.75	Inf	-Inf	31.04	3	Horizontal	51	1.12	-
2457MHz	Pass	AV	2.4835G	49.49	54.00	-4.51	31.11	3	Horizontal	51	1.12	-
2457MHz	Pass	PK	2.4622G	107.56	Inf	-Inf	31.03	3	Horizontal	51	1.12	-
2457MHz	Pass	PK	2.4844G	61.76	74.00	-12.24	31.12	3	Horizontal	51	1.12	-
2462MHz	Pass	AV	2.4556G	94.80	Inf	-Inf	31.01	3	Vertical	112	1.64	-
2462MHz	Pass	AV	2.4835G	51.17	54.00	-2.83	31.11	3	Vertical	112	1.64	
2462MHz	Pass	PK	2.4558G	104.36	Inf	-2.03 -Inf	31.02	3	Vertical	112	1.64	
2462MHz	Pass	PK	2.4836G	65.70	74.00	-8.30	31.11	3	Vertical	112	1.64	-

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F4 of F75





Mode	Result	Туре	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth	Height (m)	Comments
2462MHz	Pass	AV	2.4578G	95.16	Inf	-Inf	31.02	3	Horizontal	129	1.29	-
2462MHz	Pass	AV	2.4835G	51.84	54.00	-2.16	31.11	3	Horizontal	129	1.29	
2462MHz	Pass	PK	2.4592G	104.94	Inf	-Inf	31.03	3	Horizontal	129	1.29	
2462MHz	Pass	PK	2.4835G	64.58	74.00	-9.42	31.11	3	Horizontal	129	1.29	
2462MHz	Pass	AV	4.92322G	33.61	54.00	-20.39	2.38	3	Vertical	87	1.17	
2462MHz	Pass	PK	4.91992G	47.03	74.00	-26.97	2.36	3	Vertical	87	1.17	
2462MHz	Pass	AV	4.92736G	35.85	54.00	-18.15	2.39	3	Horizontal	306	2.20	
2462MHz	Pass	PK	4.92562G	48.73	74.00	-25.27	2.39	3	Horizontal	306	2.20	-
802.11n HT20_Nss1,(MCS0)_1TX	F d 3 3	FK	4.72302G	40.73	74.00	-23.21	2.37	-	Tiorizoritai	-	2.20	-
2412MHz	Pass	AV	2.39G	51.63	54.00	-2.37	30.77	3	Vertical	97	2.19	
2412MHz		AV	2.4066G					3	Vertical	97		
2412MHz	Pass Pass	PK	2.4000G 2.3894G	95.21 65.51	74.00	-Inf -8.49	30.84	3	Vertical	97	2.19	-
2412MHz	Pass	PK	2.4096G	105.30	Inf	-Inf	30.85	3	Vertical	97	2.19	-
2412MHz	Pass	AV	2.39G	47.80	54.00	-6.20	30.77	3	Horizontal	42	1.50	-
2412MHz	Pass	AV	2.4166G	95.50	Inf	-Inf	30.87	3	Horizontal	42	1.50	-
2412MHz	Pass	PK	2.3894G	60.40	74.00	-13.60	30.77	3	Horizontal	42	1.50	-
2412MHz	Pass	PK	2.4148G	105.16	Inf	-Inf	30.86	3	Horizontal	42	1.50	-
2412MHz	Pass	AV	4.8225G	33.52	54.00	-20.48	2.13	3	Vertical	0	1.96	-
2412MHz	Pass	PK	4.82562G	46.66	74.00	-27.34	2.14	3	Vertical	0	1.96	-
2412MHz	Pass	AV	4.82292G	36.55	54.00	-17.45	2.13	3	Horizontal	134	2.01	-
2412MHz	Pass	PK	4.82484G	50.54	74.00	-23.46	2.13	3	Horizontal	134	2.01	-
2417MHz	Pass	AV	2.39G	51.29	54.00	-2.71	30.77	3	Vertical	119	2.14	-
2417MHz	Pass	AV	2.4226G	95.20	Inf	-Inf	30.89	3	Vertical	119	2.14	-
2417MHz	Pass	PK	2.3892G	65.76	74.00	-8.24	30.77	3	Vertical	119	2.14	-
2417MHz	Pass	PK	2.4224G	107.71	Inf	-Inf	30.89	3	Vertical	119	2.14	-
2417MHz	Pass	AV	2.3896G	51.79	54.00	-2.21	30.77	3	Horizontal	53	2.08	-
2417MHz	Pass	AV	2.4122G	97.17	Inf	-Inf	30.85	3	Horizontal	53	2.08	-
2417MHz	Pass	PK	2.3896G	65.02	74.00	-8.98	30.77	3	Horizontal	53	2.08	-
2417MHz	Pass	PK	2.4182G	107.27	Inf	-Inf	30.87	3	Horizontal	53	2.08	-
2422MHz	Pass	AV	2.39G	51.27	54.00	-2.73	30.77	3	Vertical	108	2.14	-
2422MHz	Pass	AV	2.427G	98.78	Inf	-Inf	30.91	3	Vertical	108	2.14	-
2422MHz	Pass	PK	2.386G	63.95	74.00	-10.05	30.76	3	Vertical	108	2.14	-
2422MHz	Pass	PK	2.4254G	108.79	Inf	-Inf	30.90	3	Vertical	108	2.14	-
2422MHz	Pass	AV	2.3896G	51.46	54.00	-2.54	30.77	3	Horizontal	44	2.09	-
2422MHz	Pass	AV	2.4174G	100.22	Inf	-Inf	30.87	3	Horizontal	44	2.09	-
2422MHz	Pass	PK	2.3868G	65.03	74.00	-8.97	30.76	3	Horizontal	44	2.09	-
2422MHz	Pass	PK	2.4196G	110.36	Inf	-Inf	30.88	3	Horizontal	44	2.09	-
2427MHz	Pass	AV	2.39G	50.38	54.00	-3.62	30.77	3	Vertical	100	2.66	
2427MHz	Pass	AV	2.4214G	101.86	Inf	-Inf	30.89	3	Vertical	100	2.66	-
2427MHz	Pass	PK	2.39G	65.45	74.00	-8.55	30.77	3	Vertical	100	2.66	-
2427MHz	Pass	PK	2.4222G	111.79	Inf	-Inf	30.89	3	Vertical	100	2.66	-
2427MHz	Pass	AV	2.39G	51.37	54.00	-2.63	30.77	3	Horizontal	42	2.61	-
2427MHz	Pass	AV	2.4228G	100.90	Inf	-Inf	30.89	3	Horizontal	42	2.61	-
2427MHz	Pass	PK	2.3892G	66.44	74.00	-7.56	30.77	3	Horizontal	42	2.61	-
2427MHz	Pass	PK	2.4242G	111.10	Inf	-Inf	30.90	3	Horizontal	42	2.61	
2432MHz	Pass	AV	2.3896G	48.18	54.00	-5.82	30.77	3	Vertical	102	2.66	-
2432MHz	Pass	AV	2.428G	101.79	Inf	-Inf	30.91	3	Vertical	102	2.66	-
2432MHz	Pass	AV	2.4835G	47.03	54.00	-6.97	31.11	3	Vertical	102	2.66	-
	l	PK	2.3896G	63.86	74.00	-10.14	30.77	3	Vertical	102	2.66	-

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F5 of F75





Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2432MHz	Pass	PK	2.4276G	112.08	Inf	-Inf	30.91	3	Vertical	102	2.66	-
2432MHz	Pass	PK	2.4835G	61.84	74.00	-12.16	31.11	3	Vertical	102	2.66	-
2432MHz	Pass	AV	2.3896G	48.86	54.00	-5.14	30.77	3	Horizontal	55	1.14	-
2432MHz	Pass	AV	2.43G	101.64	Inf	-Inf	30.91	3	Horizontal	55	1.14	-
2432MHz	Pass	AV	2.484G	47.29	54.00	-6.71	31.12	3	Horizontal	55	1.14	-
2432MHz	Pass	PK	2.3896G	63.56	74.00	-10.44	30.77	3	Horizontal	55	1.14	-
2432MHz	Pass	PK	2.4348G	111.40	Inf	-Inf	30.94	3	Horizontal	55	1.14	-
2432MHz	Pass	PK	2.4835G	61.64	74.00	-12.36	31.11	3	Horizontal	55	1.14	-
2437MHz	Pass	AV	2.3898G	49.94	54.00	-4.06	30.77	3	Vertical	105	2.17	-
2437MHz	Pass	AV	2.4314G	102.42	Inf	-Inf	30.93	3	Vertical	105	2.17	-
2437MHz	Pass	AV	2.4842G	51.11	54.00	-2.89	31.12	3	Vertical	105	2.17	-
2437MHz	Pass	PK	2.3894G	63.92	74.00	-10.08	30.77	3	Vertical	105	2.17	-
2437MHz	Pass	PK	2.433G	112.26	Inf	-Inf	30.93	3	Vertical	105	2.17	-
2437MHz	Pass	PK	2.4835G	66.12	74.00	-7.88	31.11	3	Vertical	105	2.17	-
2437MHz	Pass	AV	2.389G	49.79	54.00	-4.21	30.77	3	Horizontal	24	1.59	-
2437MHz	Pass	AV	2.4314G	101.11	Inf	-Inf	30.93	3	Horizontal	24	1.59	-
2437MHz	Pass	AV	2.4835G	51.28	54.00	-2.72	31.11	3	Horizontal	24	1.59	-
2437MHz	Pass	PK	2.3894G	65.44	74.00	-8.56	30.77	3	Horizontal	24	1.59	-
2437MHz	Pass	PK	2.4326G	110.95	Inf	-Inf	30.93	3	Horizontal	24	1.59	-
2437MHz	Pass	PK	2.485G	67.26	74.00	-6.74	31.12	3	Horizontal	24	1.59	-
2437MHz	Pass	AV	4.87358G	33.87	54.00	-20.13	2.25	3	Vertical	69	2.05	-
2437MHz	Pass	PK	4.86374G	45.26	74.00	-28.74	2.23	3	Vertical	69	2.05	-
2437MHz	Pass	AV	4.87466G	43.82	54.00	-10.18	2.25	3	Horizontal	141	2.00	-
2437MHz	Pass	PK	4.87766G	57.31	74.00	-16.69	2.26	3	Horizontal	141	2.00	-
2442MHz	Pass	AV	2.3896G	44.35	54.00	-9.65	30.77	3	Vertical	96	2.11	-
2442MHz	Pass	AV	2.4448G	100.82	Inf	-Inf	30.98	3	Vertical	96	2.11	-
2442MHz	Pass	AV	2.4835G	50.86	54.00	-3.14	31.11	3	Vertical	96	2.11	-
2442MHz	Pass	PK	2.3844G	56.60	74.00	-17.40	30.76	3	Vertical	96	2.11	-
2442MHz	Pass	PK	2.4456G	111.18	Inf	-Inf	30.98	3	Vertical	96	2.11	-
2442MHz	Pass	PK	2.484G	66.82	74.00	-7.18	31.12	3	Vertical	96	2.11	-
2442MHz	Pass	AV	2.39G	44.85	54.00	-9.15	30.77	3	Horizontal	43	2.55	-
2442MHz	Pass	AV	2.4352G	101.19	Inf	-Inf	30.94	3	Horizontal	43	2.55	-
2442MHz	Pass	AV	2.4835G	51.48	54.00	-2.52	31.11	3	Horizontal	43	2.55	-
2442MHz	Pass	PK	2.3852G	58.43	74.00	-15.57	30.76	3	Horizontal	43	2.55	-
2442MHz	Pass	PK	2.4436G	111.60	Inf	-Inf	30.96	3	Horizontal	43	2.55	
2442MHz	Pass	PK	2.484G	65.41	74.00	-8.59	31.12	3	Horizontal	43	2.55	
2447MHz	Pass	AV	2.4416G	100.15	Inf	-Inf	30.96	3	Vertical	90	2.07	-
2447MHz	Pass	AV	2.4835G	51.50	54.00	-2.50	31.11	3	Vertical	90	2.07	-
2447MHz	Pass	PK	2.4452G	110.10	Inf	-Inf	30.98	3	Vertical	90	2.07	-
2447MHz	Pass	PK	2.485G	65.36	74.00	-8.64	31.12	3	Vertical	90	2.07	-
2447MHz	Pass	AV	2.451G	99.35	Inf	-Inf	30.99	3	Horizontal	25	1.55	
2447MHz	Pass	AV	2.4835G	49.66	54.00	-4.34	31.11	3	Horizontal	25	1.55	
2447MHz	Pass	PK	2.4514G	109.48	Inf	-Inf	30.99	3	Horizontal	25	1.55	
2447MHz	Pass	PK	2.4835G	64.27	74.00	-9.73	31.11	3	Horizontal	25	1.55	
2452MHz	Pass	AV	2.4448G	98.43	Inf	-Inf	30.98	3	Vertical	98	2.09	
2452MHz	Pass	AV	2.4835G	51.56	54.00	-2.44	31.11	3	Vertical	98	2.09	
2452MHz	Pass	PK	2.4476G	108.00	Inf	-2.44 -Inf	30.98	3	Vertical	98	2.09	
2452MHz	Pass	PK	2.4476G 2.4842G	66.18	74.00	-7.82	31.12	3	Vertical	98	2.09	
												<u> </u>
2452MHz	Pass	AV	2.4502G	97.48	Inf	-Inf	30.99	3	Horizontal	157	1.58	-

SPORTON INTERNATIONAL INC.

TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F6 of F75

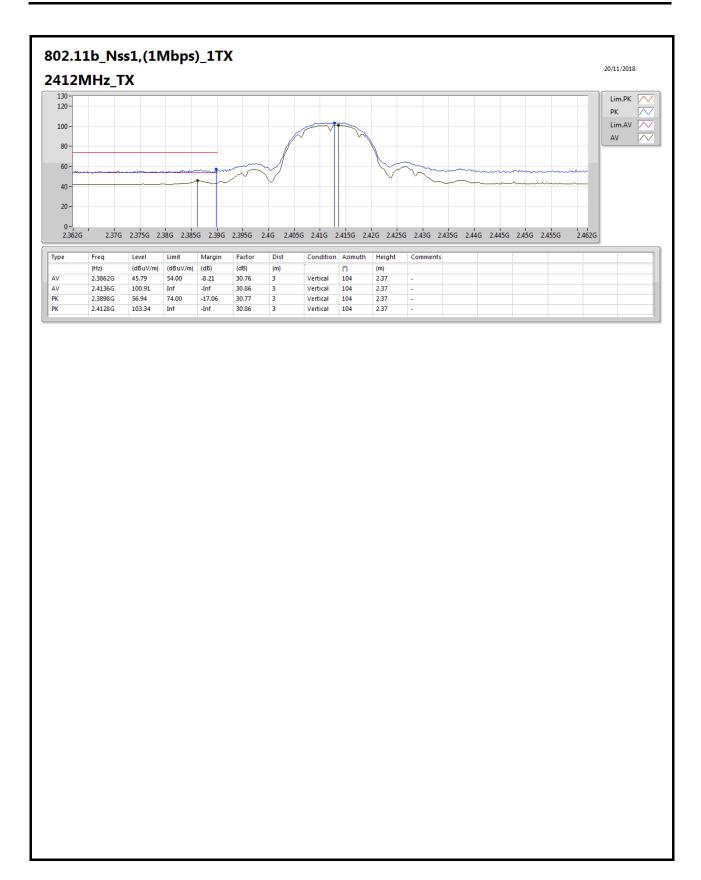


Appendix F.2

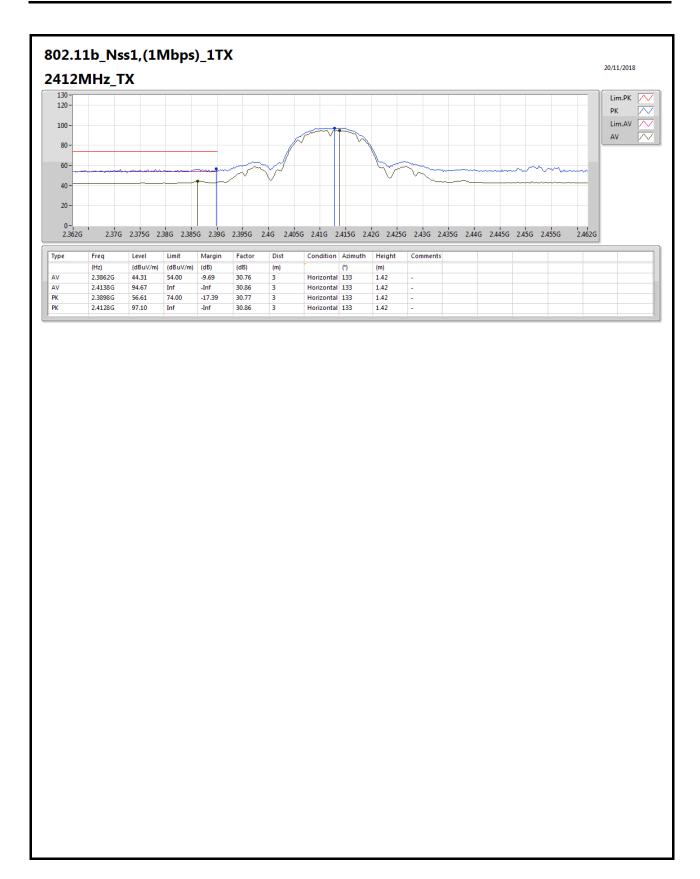
Mode	Result	Туре	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
			(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
2452MHz	Pass	AV	2.4835G	49.54	54.00	-4.46	31.11	3	Horizontal	157	1.58	-
2452MHz	Pass	PK	2.4486G	108.25	Inf	-Inf	30.99	3	Horizontal	157	1.58	-
2452MHz	Pass	PK	2.4838G	63.10	74.00	-10.90	31.11	3	Horizontal	157	1.58	-
2457MHz	Pass	AV	2.4518G	97.48	Inf	-Inf	31.00	3	Vertical	96	2.07	-
2457MHz	Pass	AV	2.4835G	51.50	54.00	-2.50	31.11	3	Vertical	96	2.07	-
2457MHz	Pass	PK	2.4598G	107.20	Inf	-Inf	31.03	3	Vertical	96	2.07	-
2457MHz	Pass	PK	2.4835G	62.66	74.00	-11.34	31.11	3	Vertical	96	2.07	-
2457MHz	Pass	AV	2.4614G	95.30	Inf	-Inf	31.03	3	Horizontal	27	1.52	-
2457MHz	Pass	AV	2.4835G	49.37	54.00	-4.63	31.11	3	Horizontal	27	1.52	-
2457MHz	Pass	PK	2.46G	107.29	Inf	-Inf	31.03	3	Horizontal	27	1.52	-
2457MHz	Pass	PK	2.4858G	64.19	74.00	-9.81	31.12	3	Horizontal	27	1.52	-
2462MHz	Pass	AV	2.456G	93.76	Inf	-Inf	31.01	3	Vertical	105	2.11	-
2462MHz	Pass	AV	2.4835G	51.27	54.00	-2.73	31.11	3	Vertical	105	2.11	-
2462MHz	Pass	PK	2.4582G	103.59	Inf	-Inf	31.02	3	Vertical	105	2.11	-
2462MHz	Pass	PK	2.484G	64.66	74.00	-9.34	31.12	3	Vertical	105	2.11	-
2462MHz	Pass	AV	2.4566G	94.07	Inf	-Inf	31.02	3	Horizontal	44	1.09	-
2462MHz	Pass	AV	2.4836G	50.84	54.00	-3.16	31.11	3	Horizontal	44	1.09	-
2462MHz	Pass	PK	2.465G	105.42	Inf	-Inf	31.04	3	Horizontal	44	1.09	-
2462MHz	Pass	PK	2.4836G	63.49	74.00	-10.51	31.11	3	Horizontal	44	1.09	-
2462MHz	Pass	AV	4.92226G	30.87	54.00	-23.13	2.38	3	Vertical	14	2.94	-
2462MHz	Pass	PK	4.93816G	43.88	74.00	-30.12	2.42	3	Vertical	14	2.94	-
2462MHz	Pass	AV	4.9244G	31.42	54.00	-22.58	2.38	3	Horizontal	54	2.26	-
2462MHz	Pass	PK	4.9277G	44.12	74.00	-29.88	2.39	3	Horizontal	54	2.26	-

SPORTON INTERNATIONAL INC. Page No. : F7 of F75



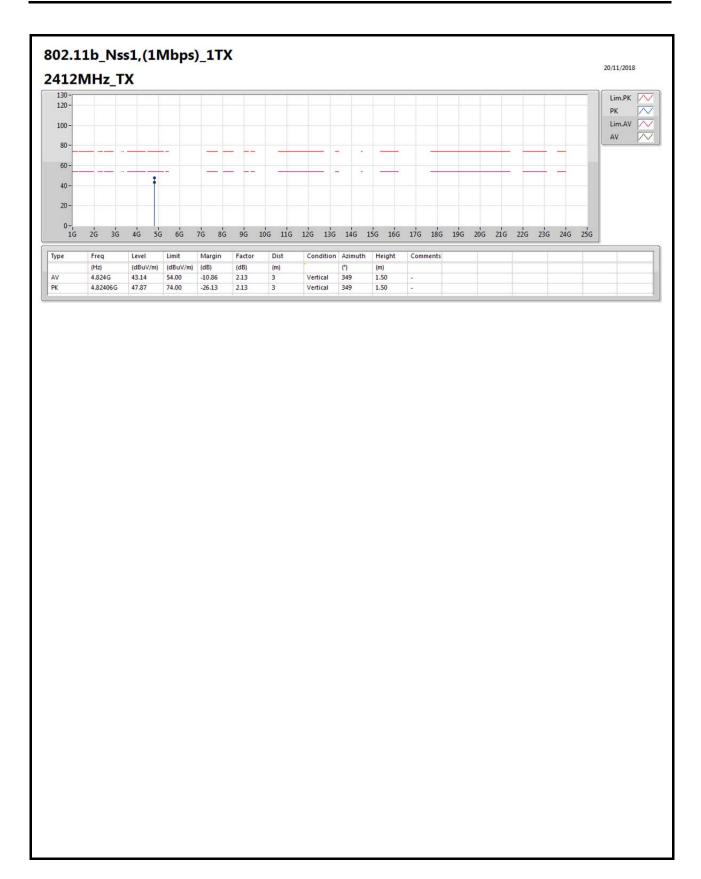






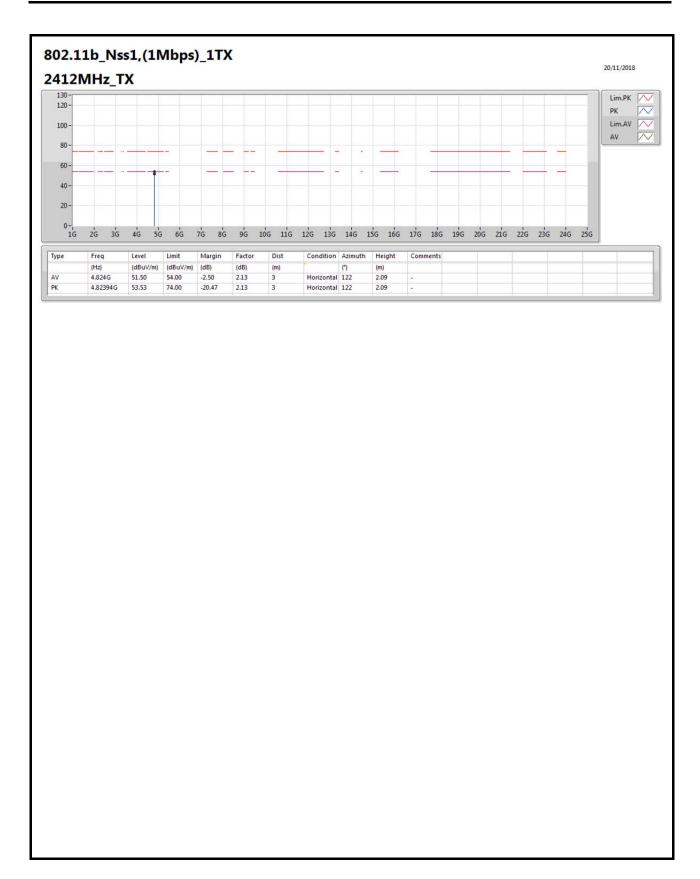
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F9 of F75





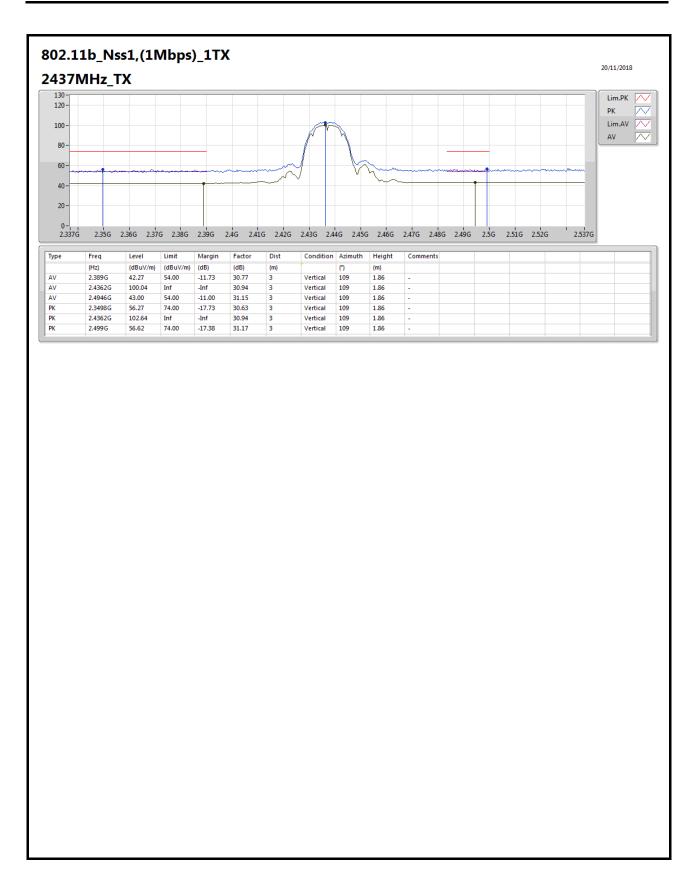
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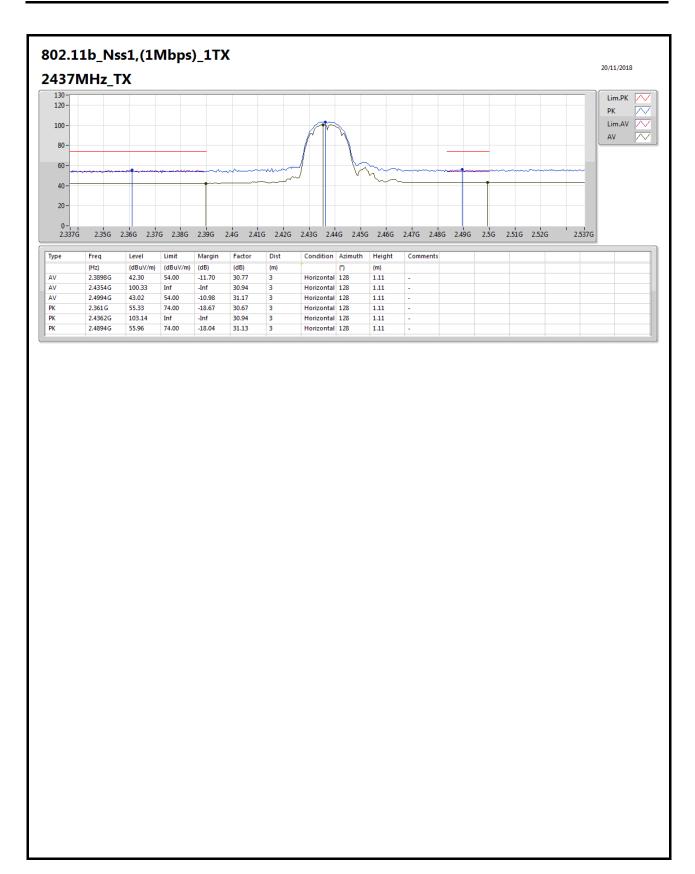


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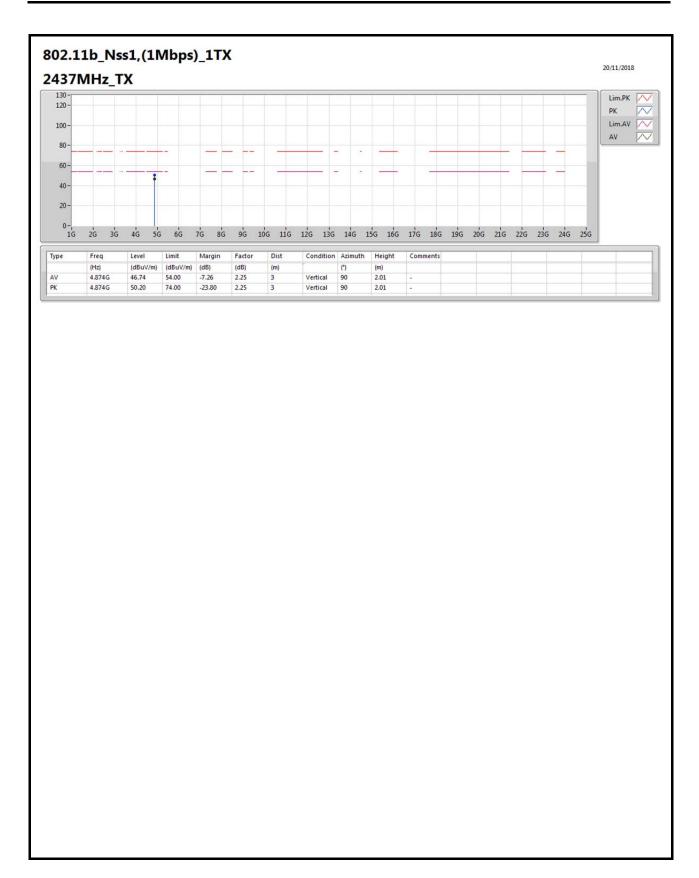






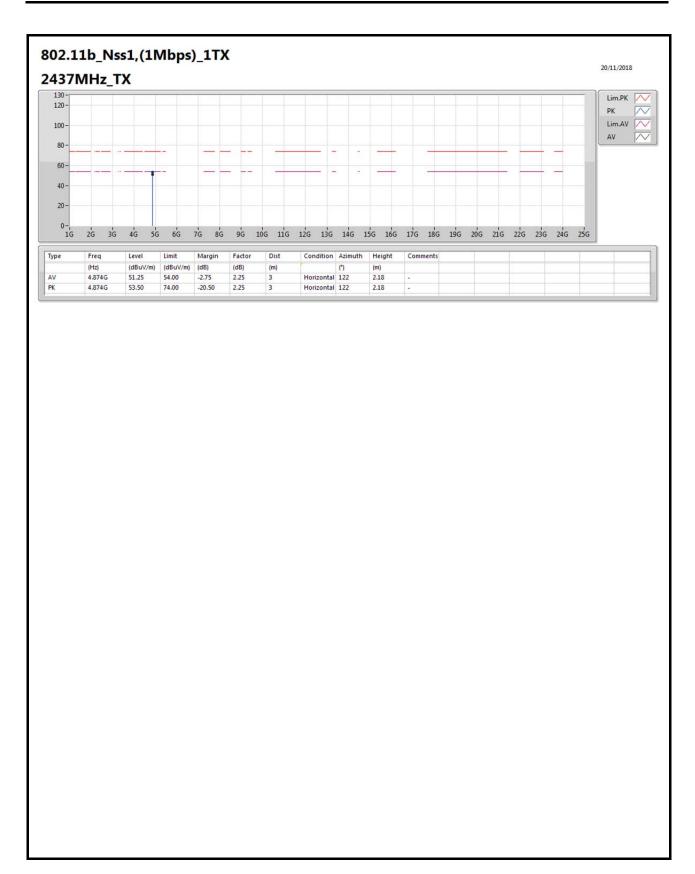
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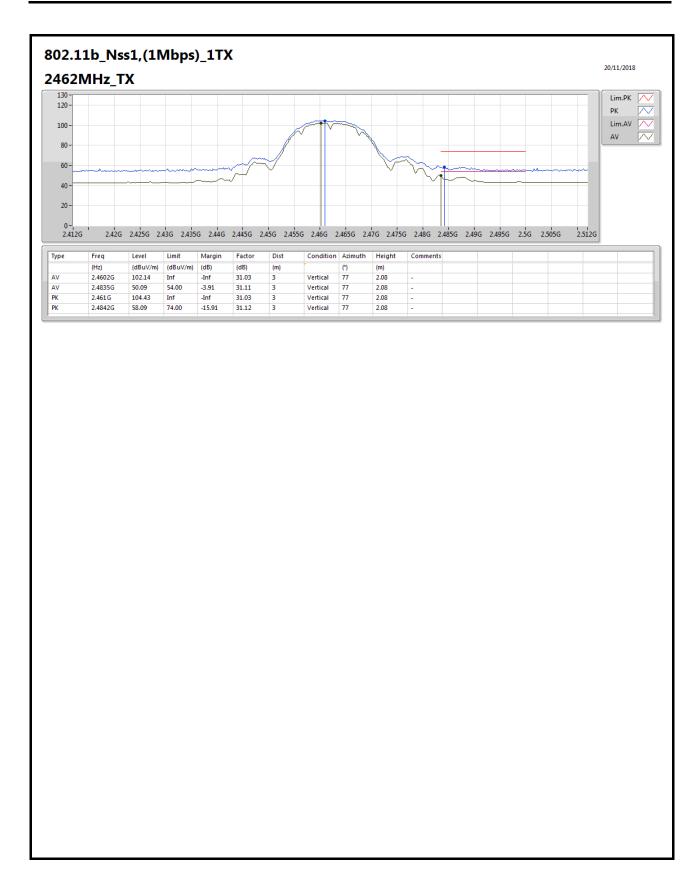
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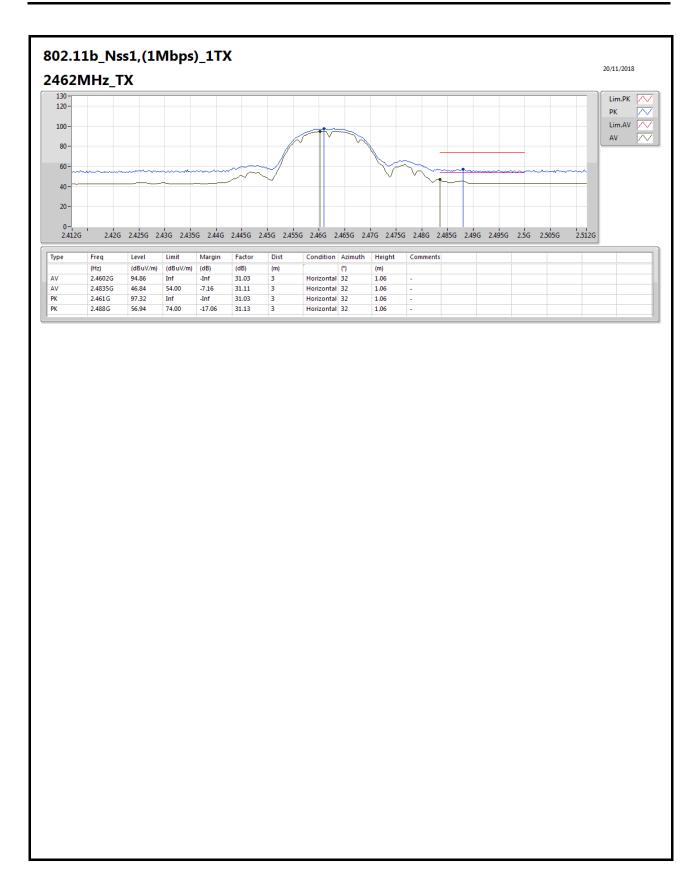


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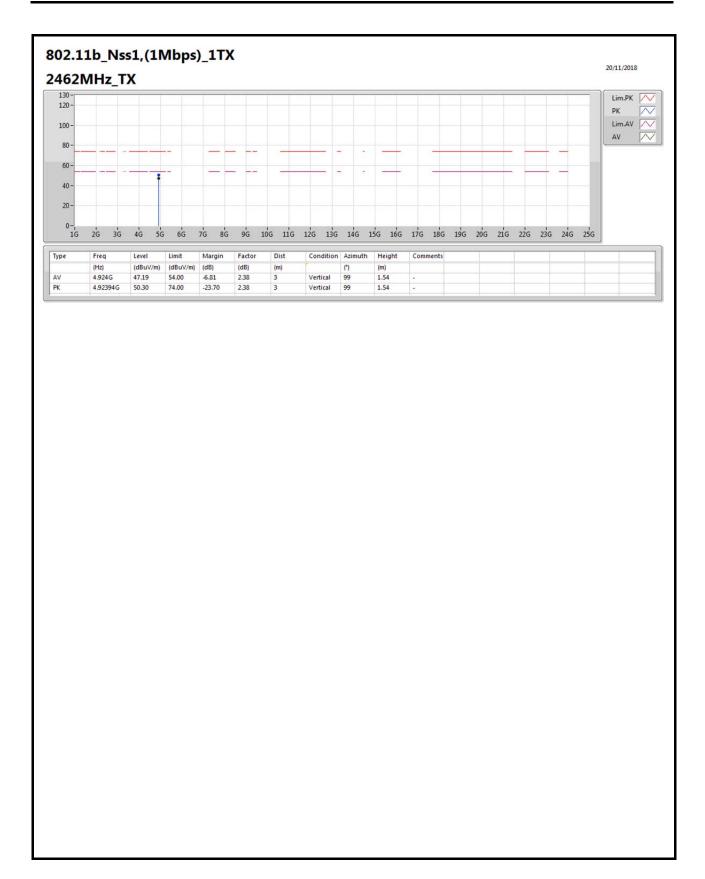






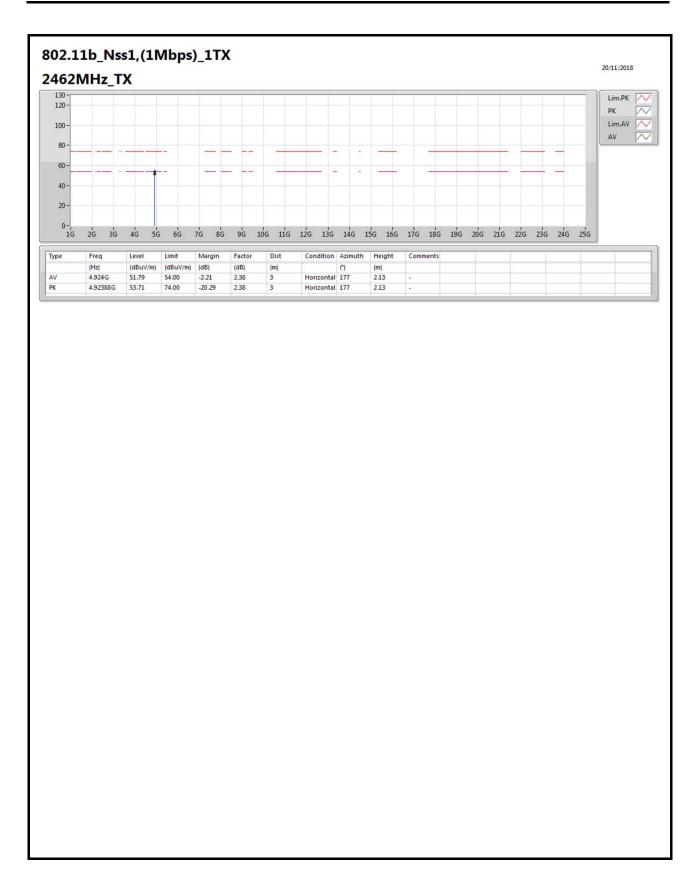
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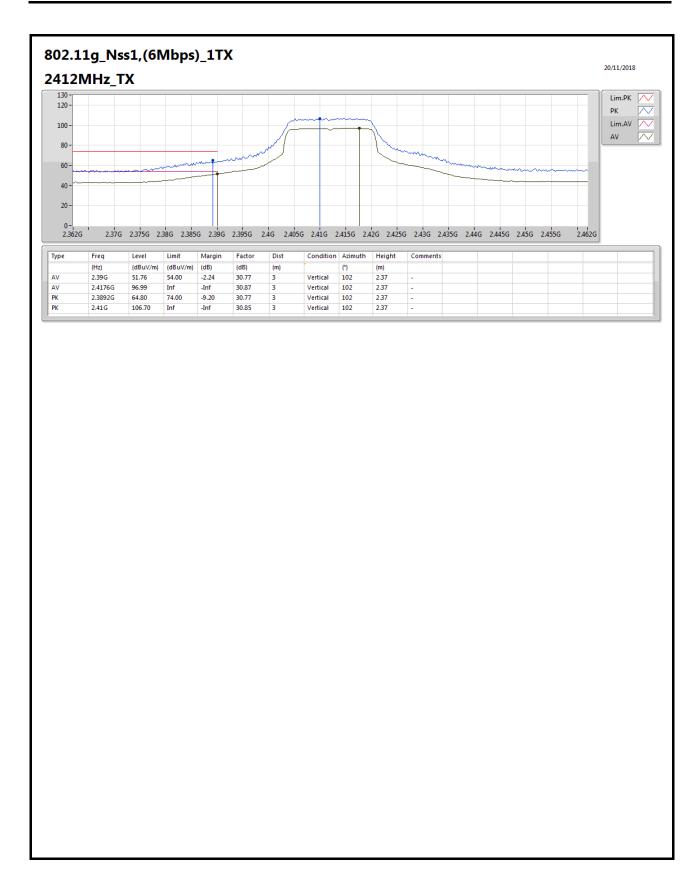
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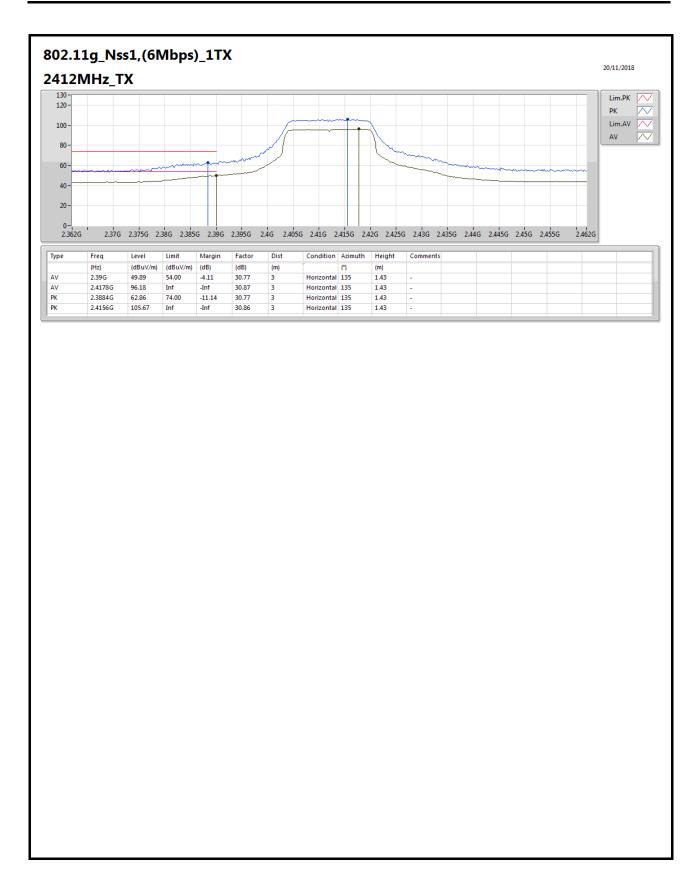


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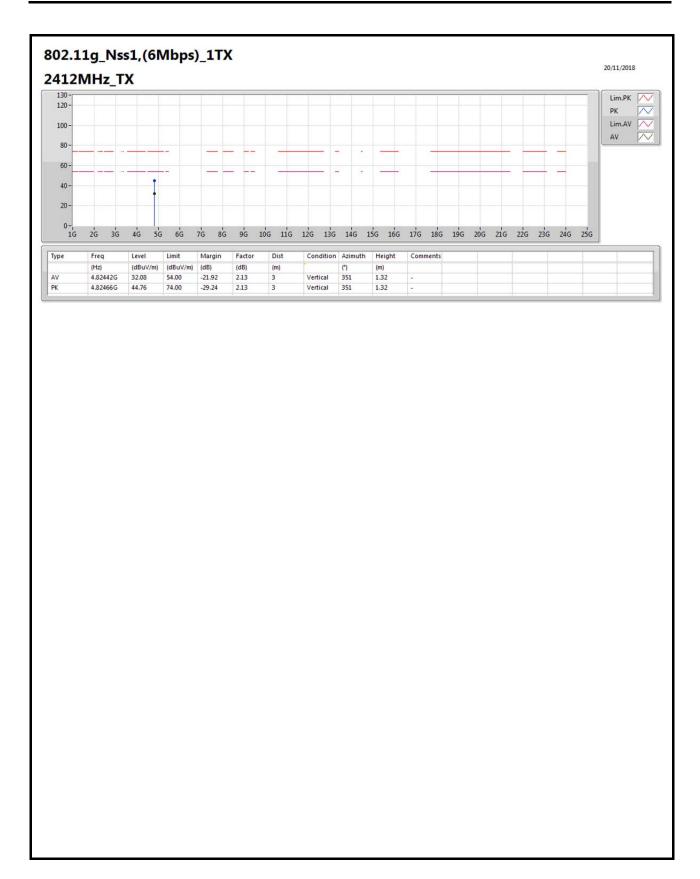




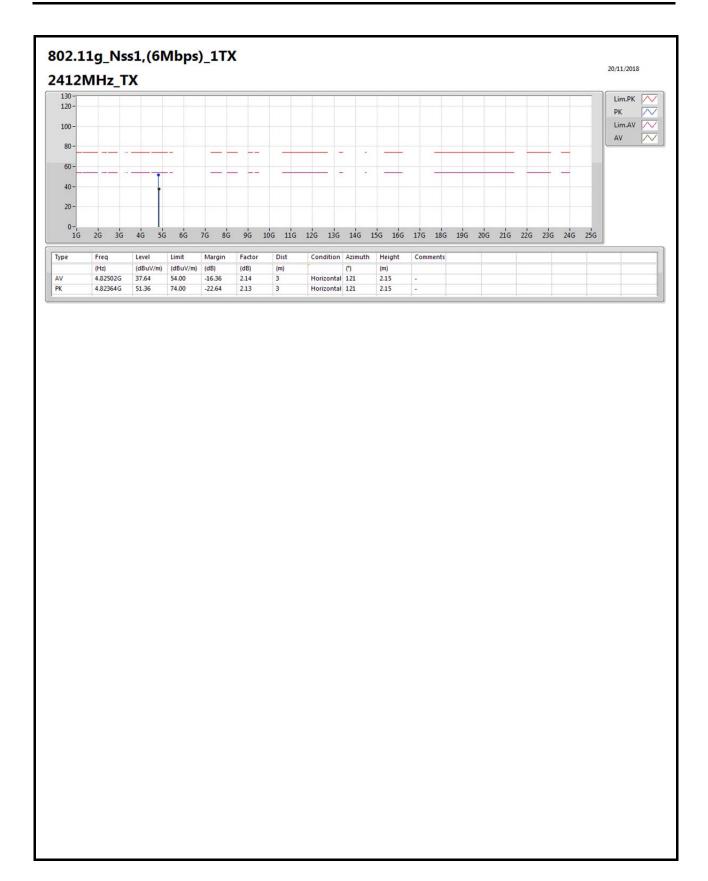


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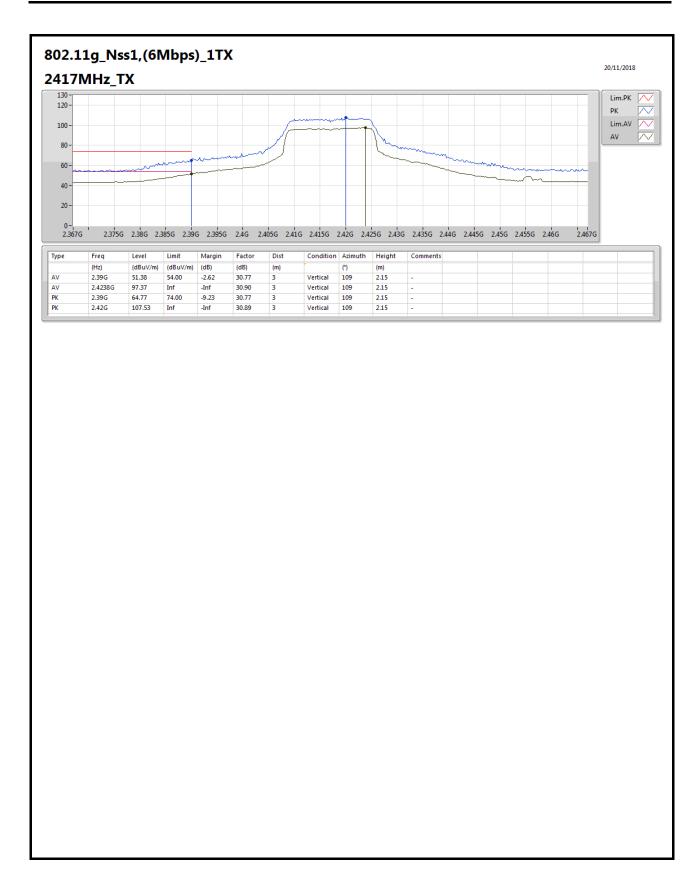






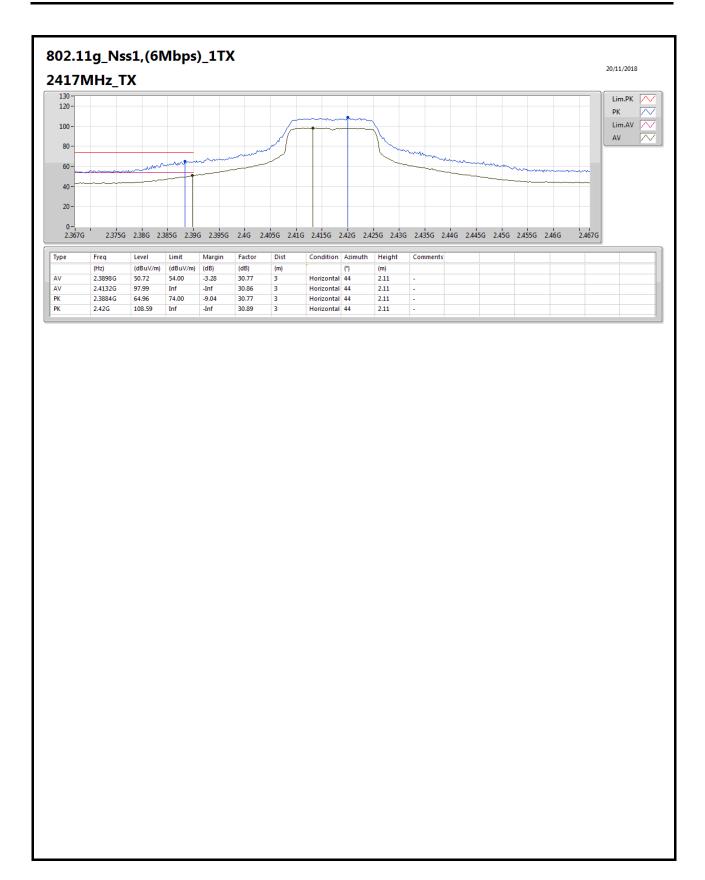
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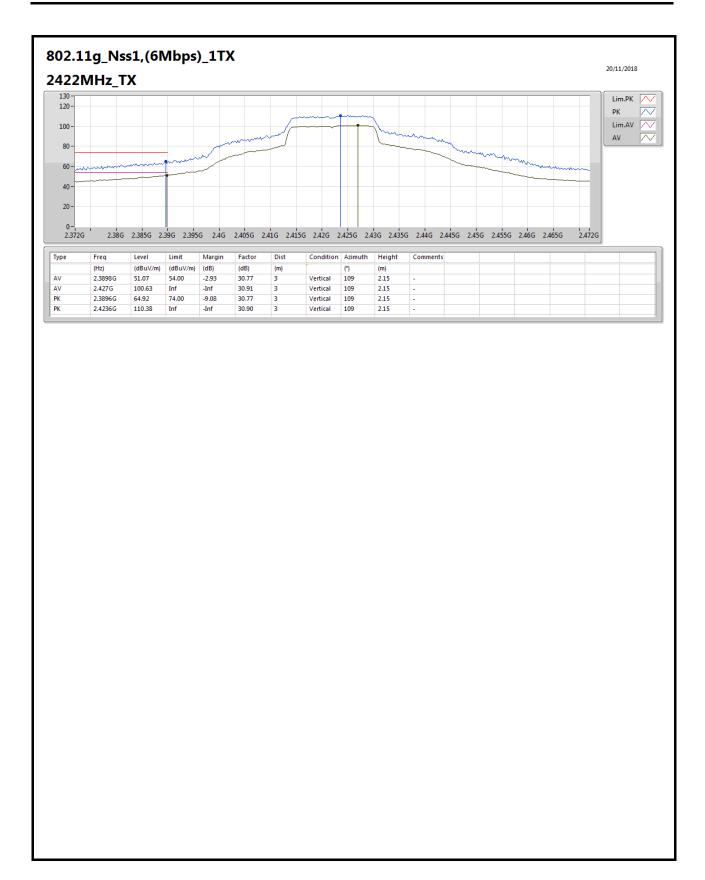
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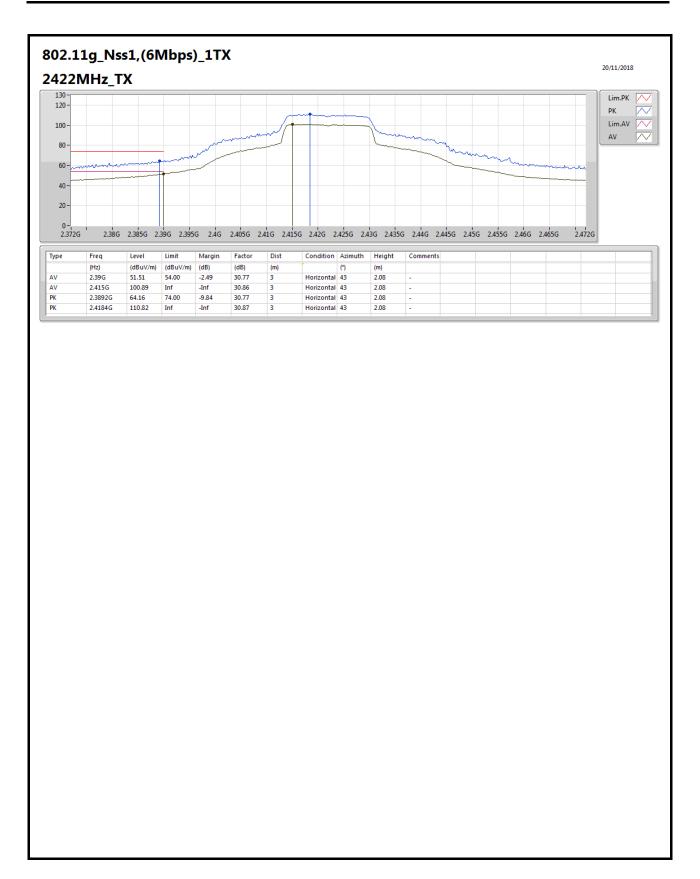
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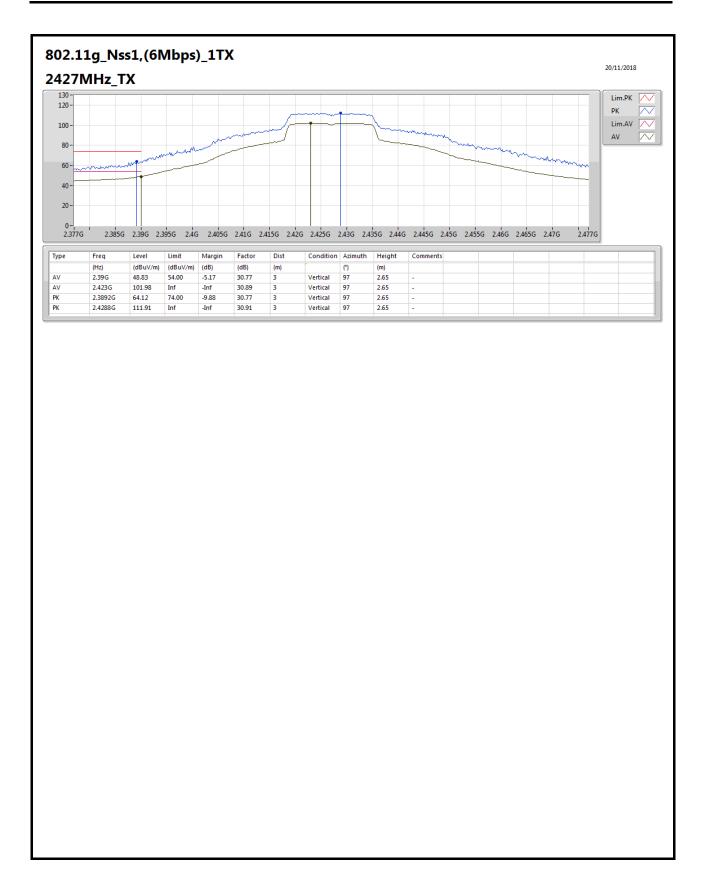


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F26 of F75

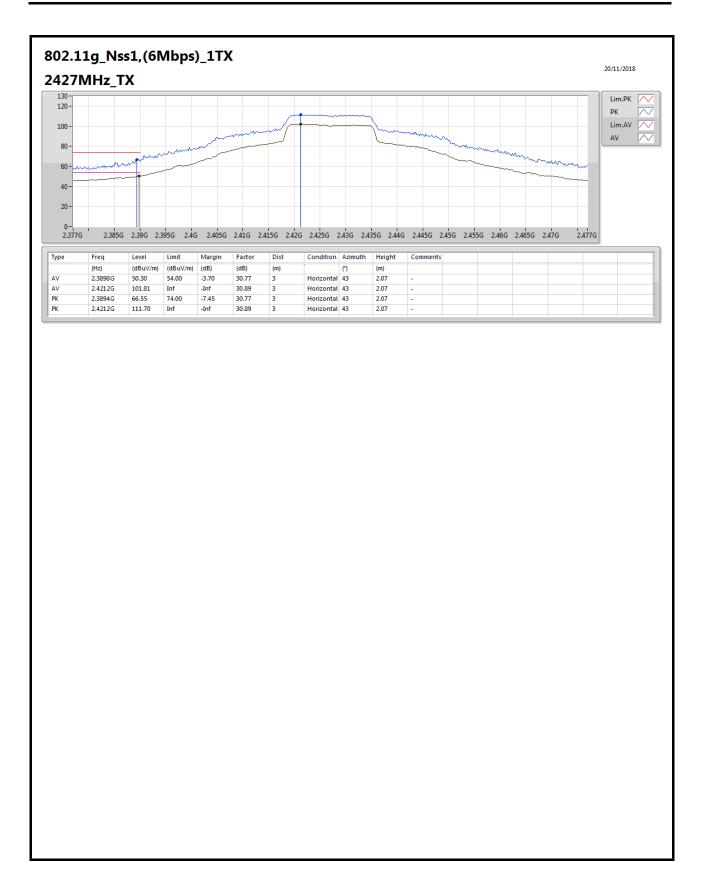






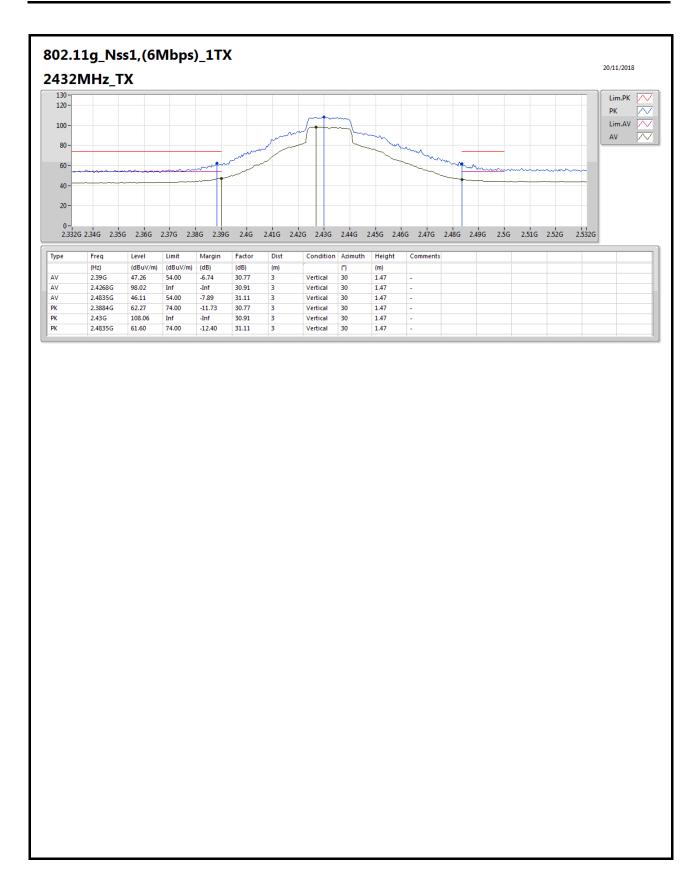






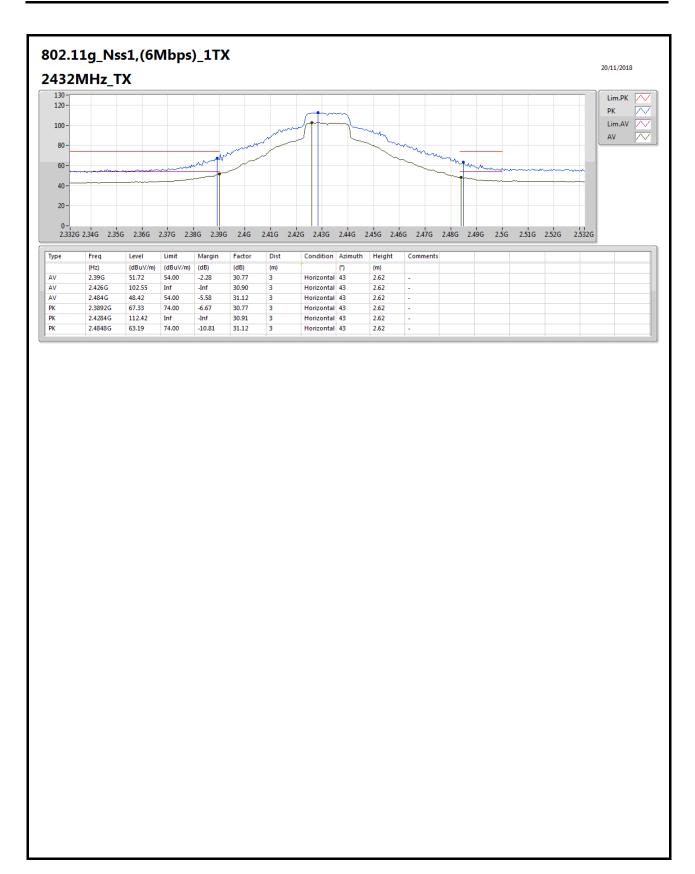
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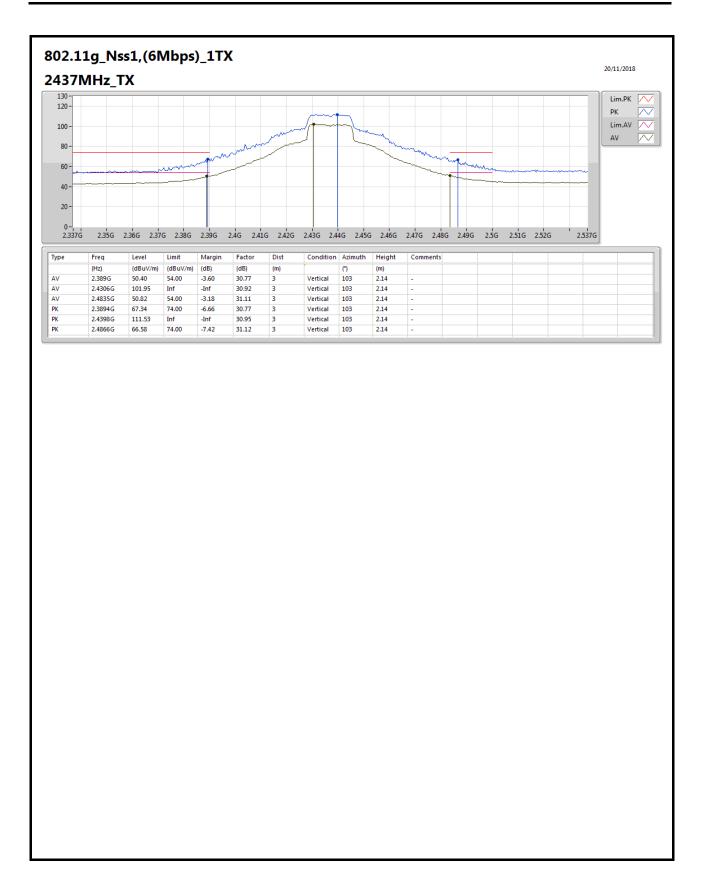


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F30 of F75

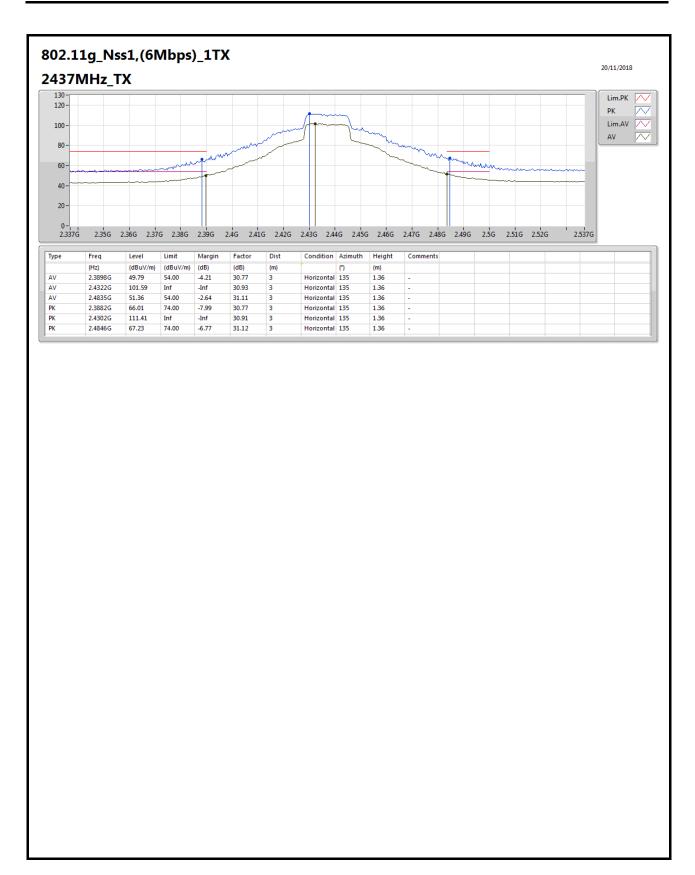






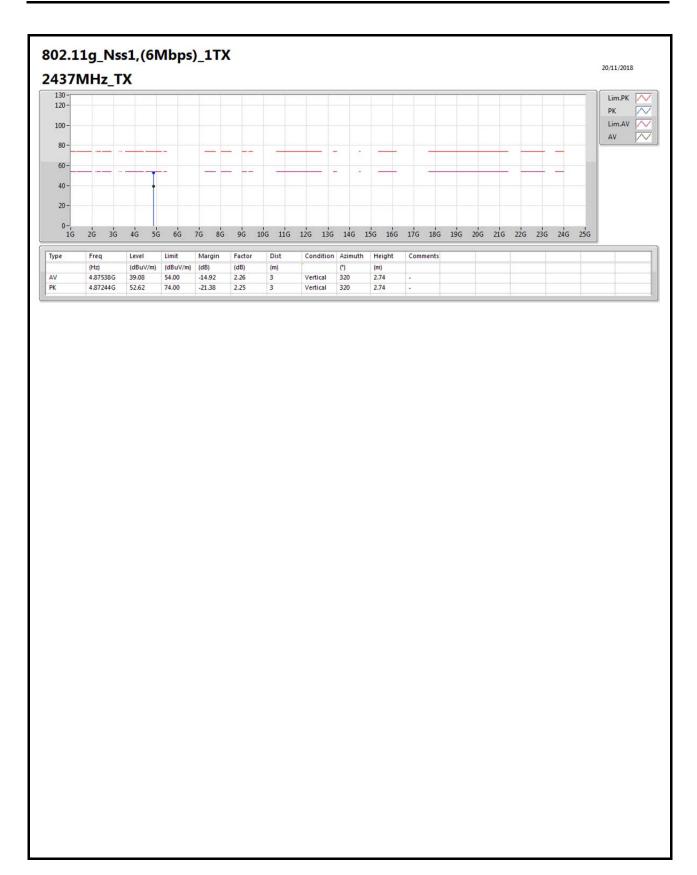






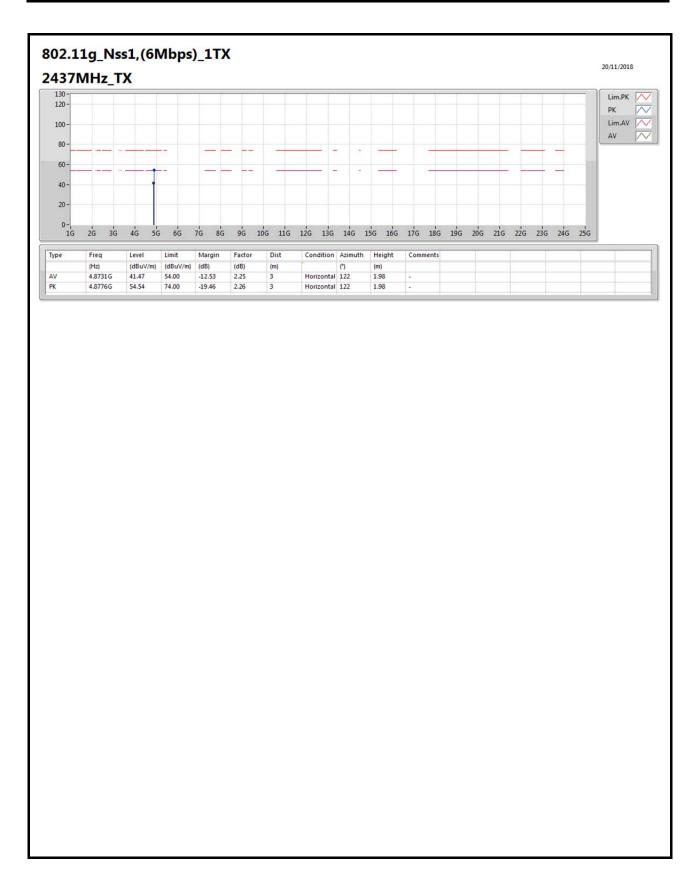
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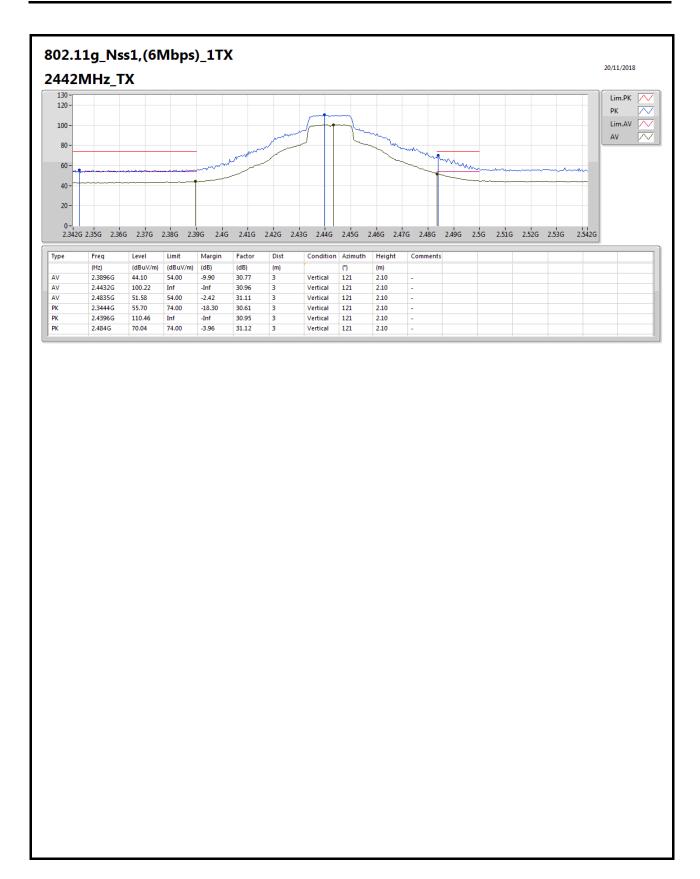
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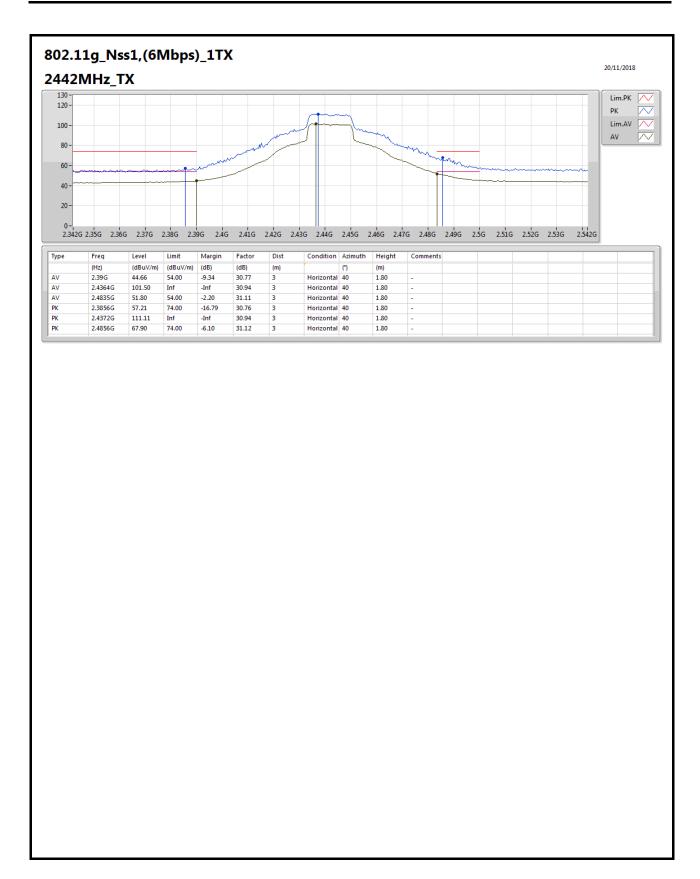
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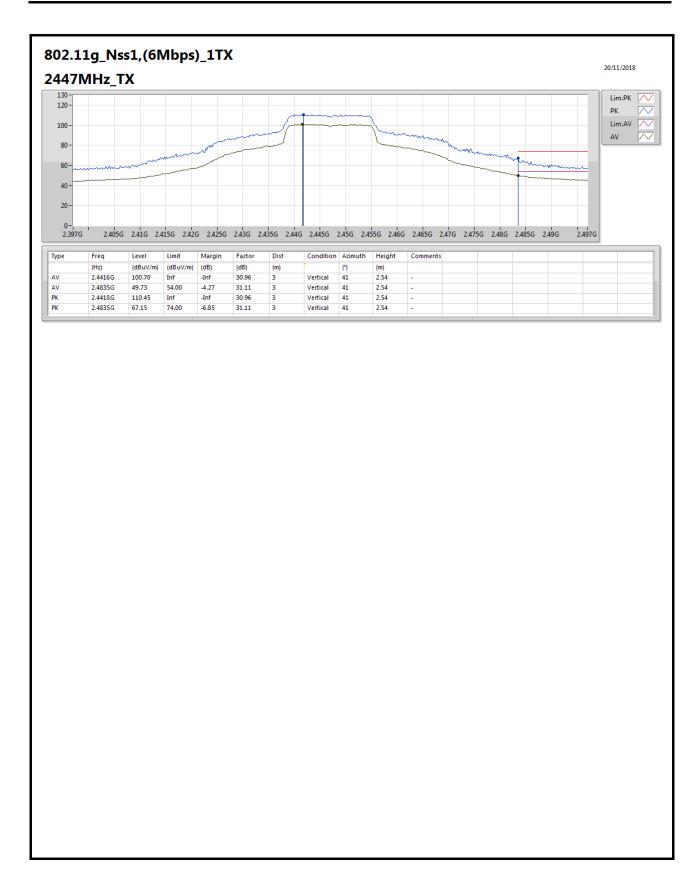
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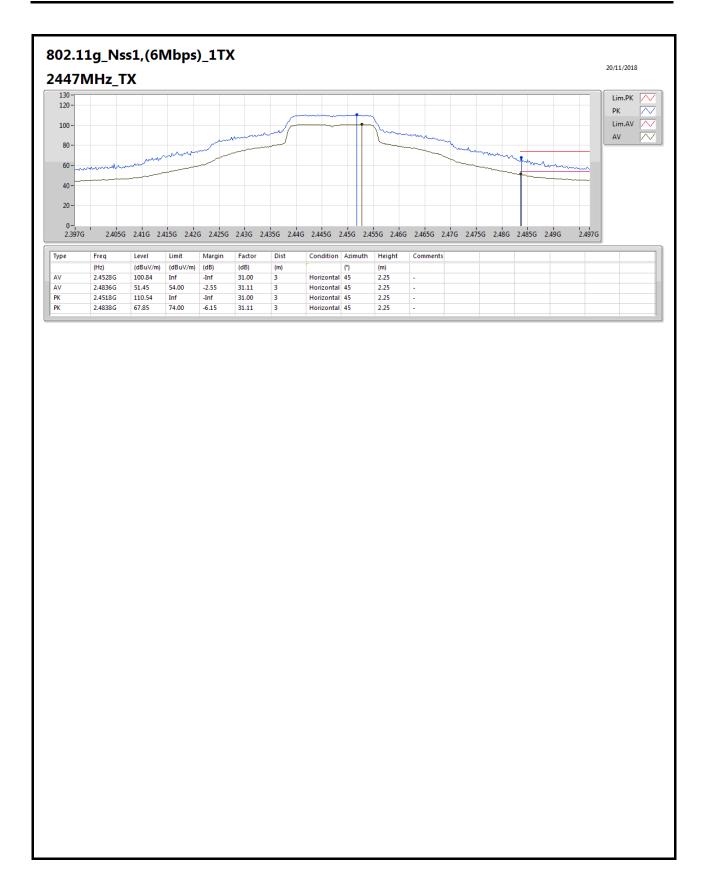
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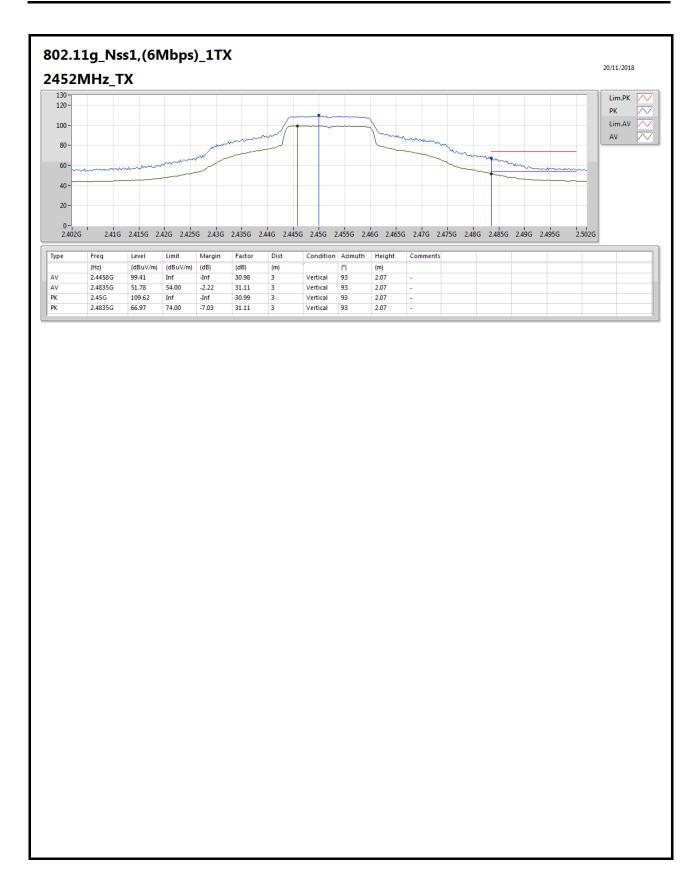
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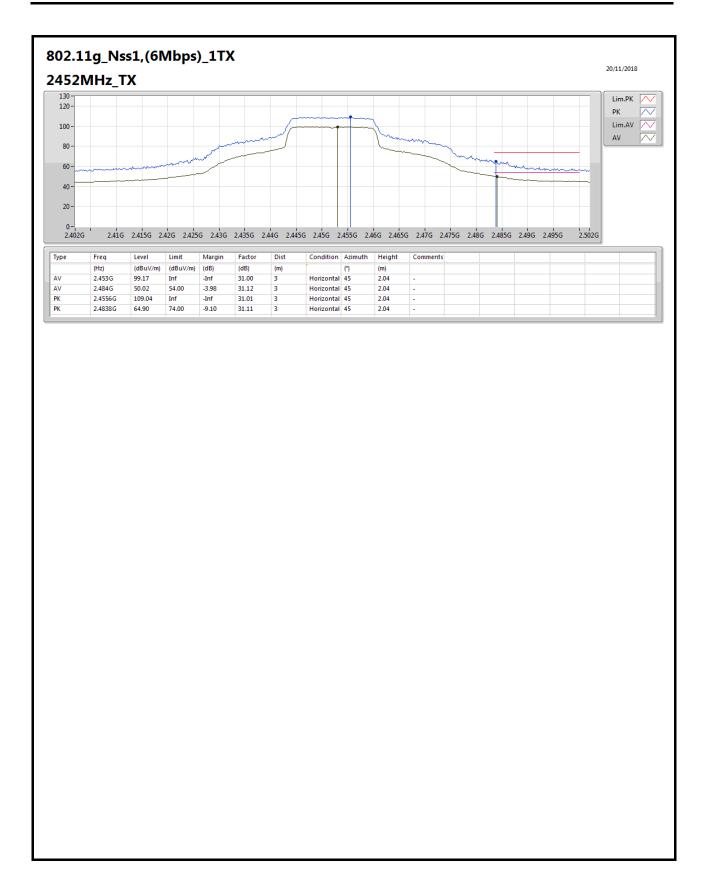


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F39 of F75



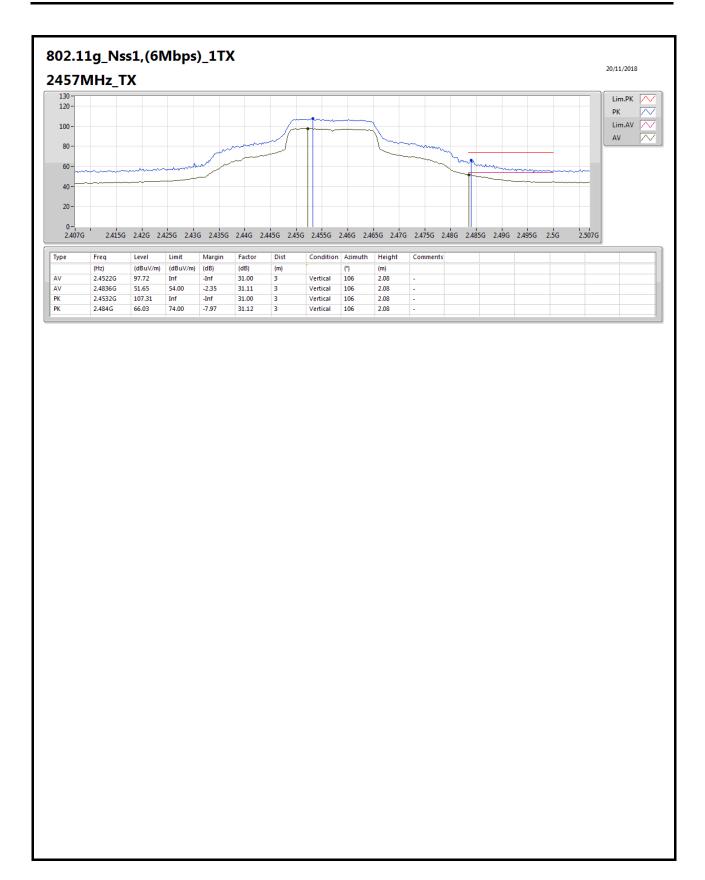






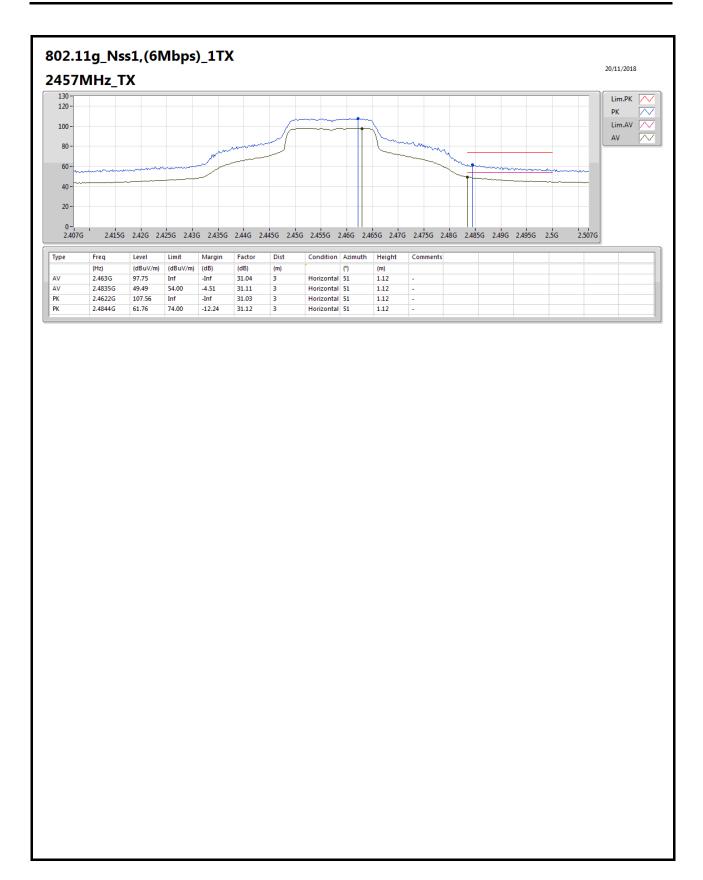
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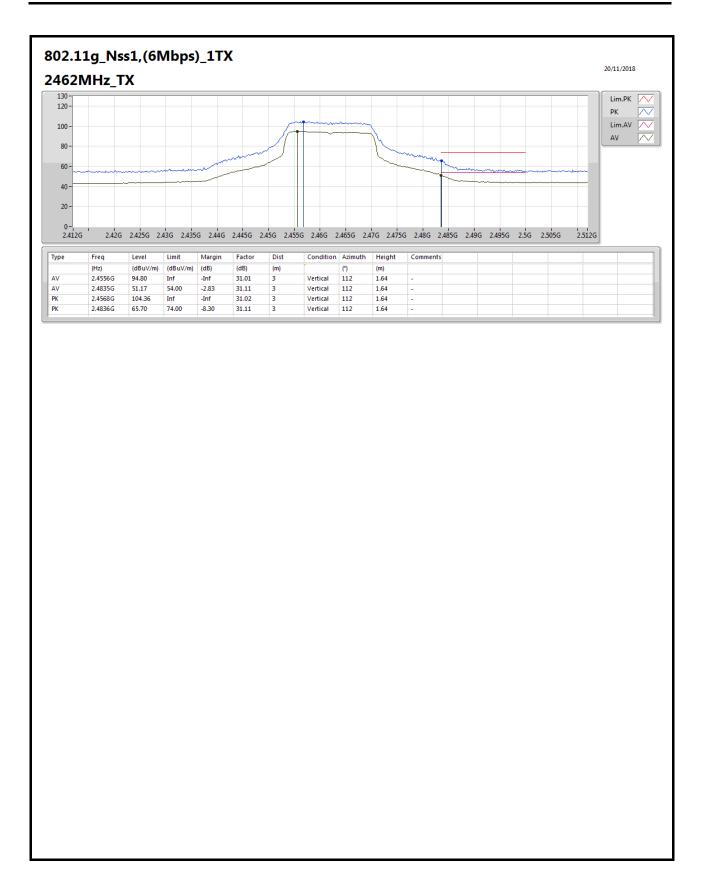


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F42 of F75

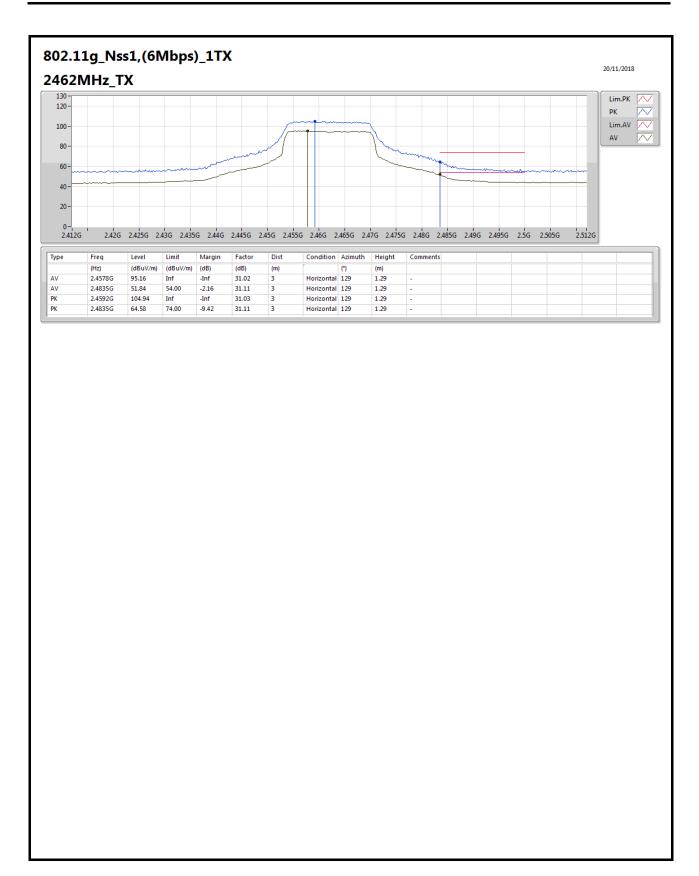






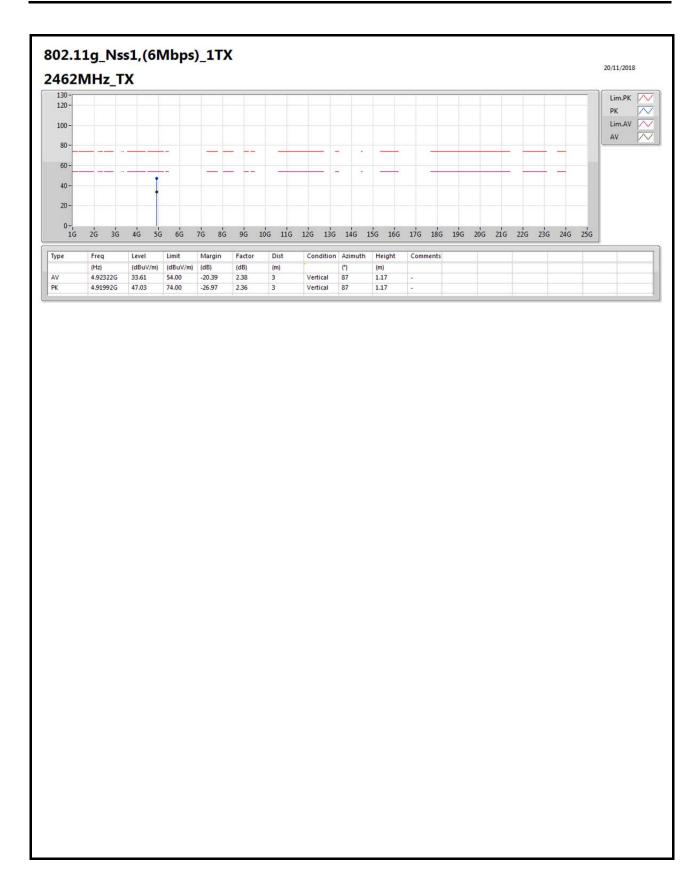






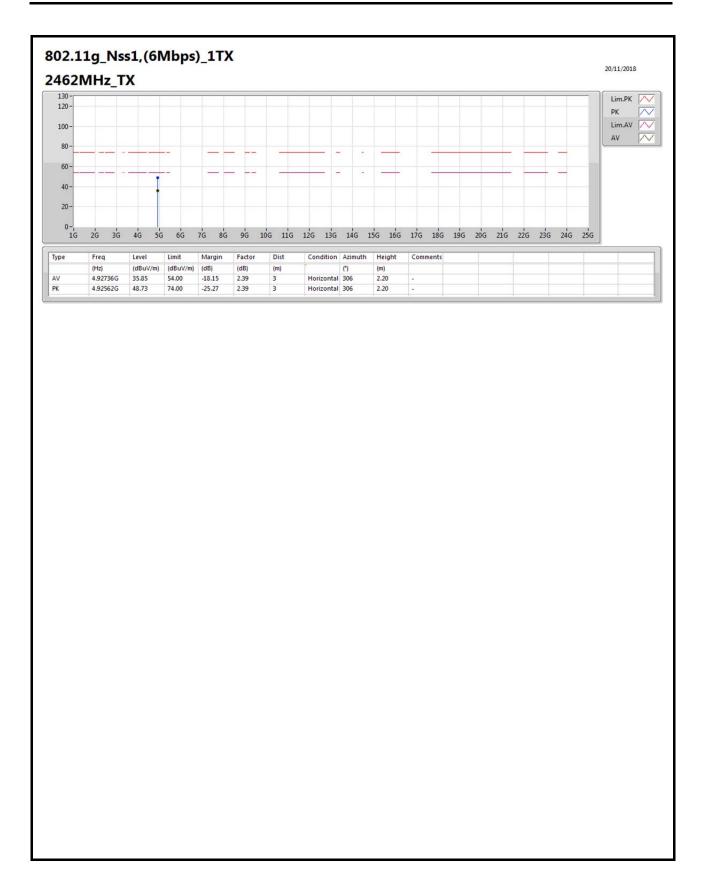
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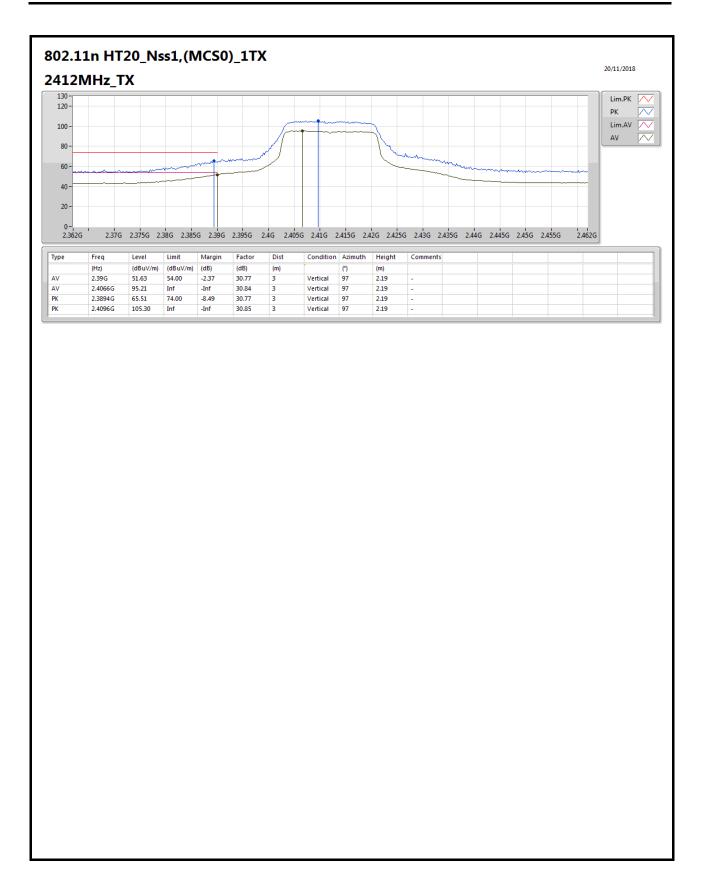
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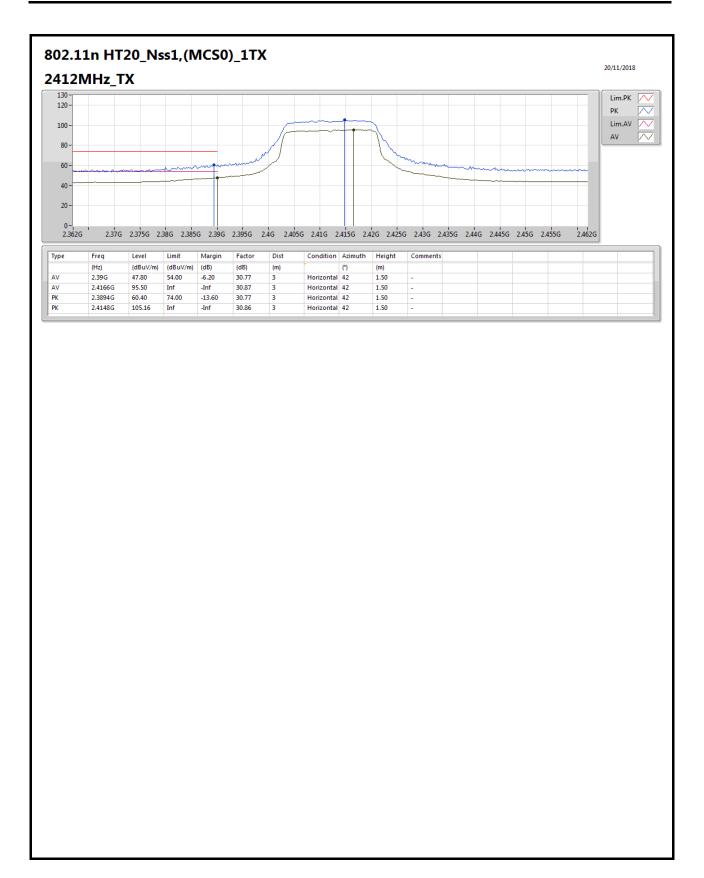
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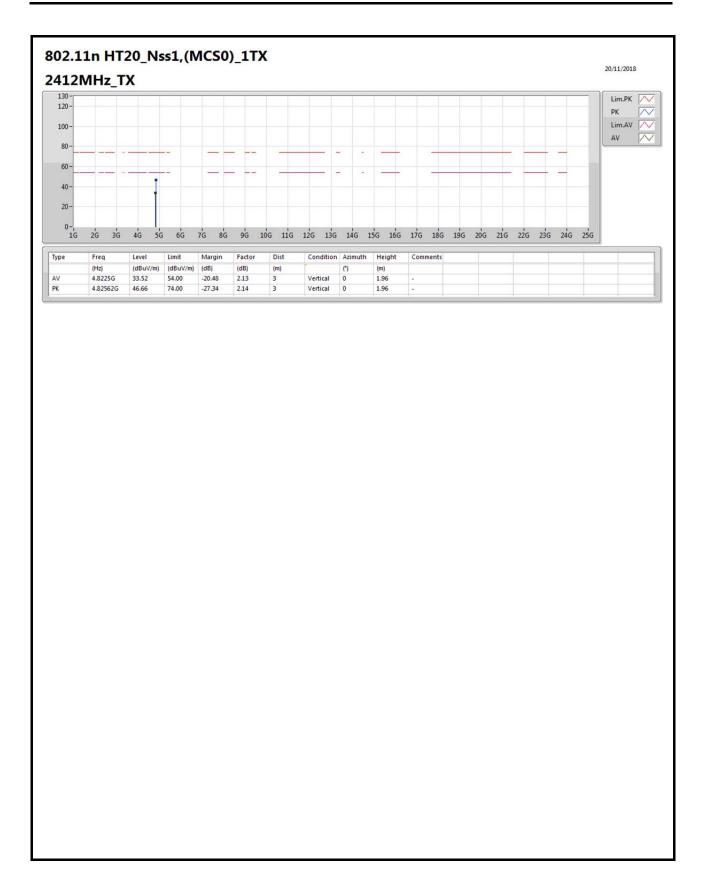
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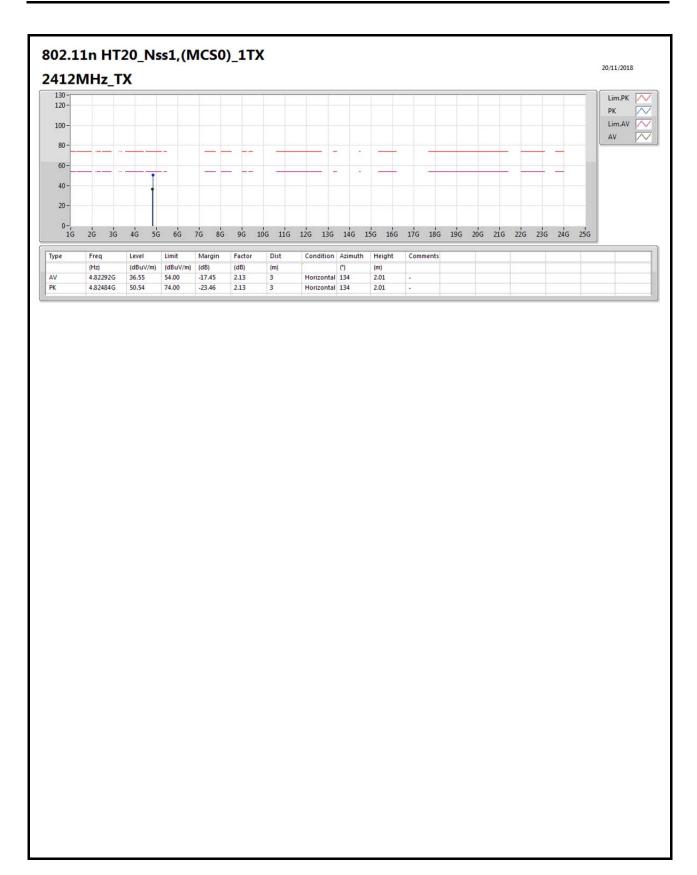
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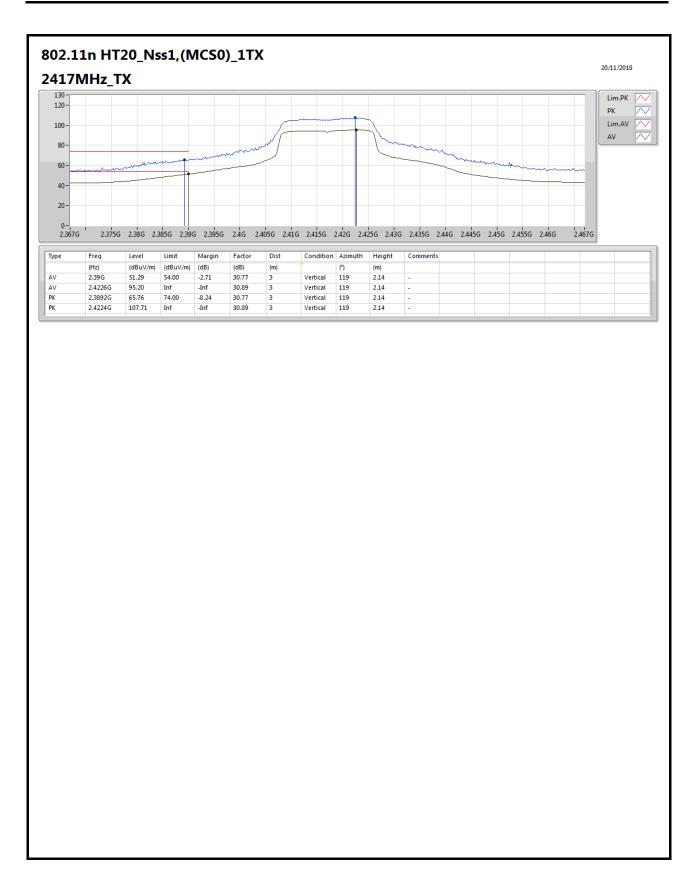
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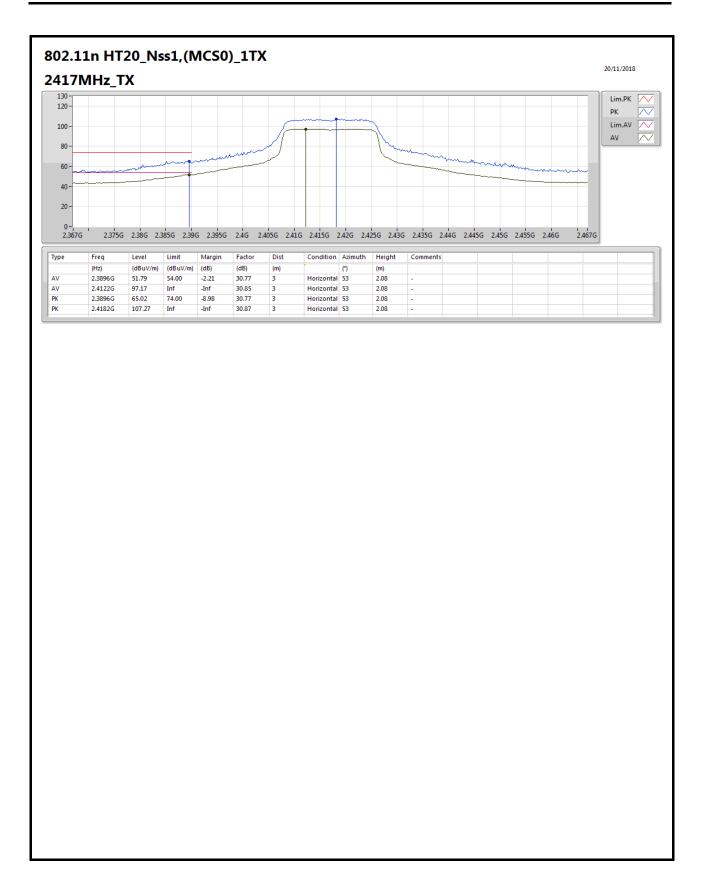


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F51 of F75



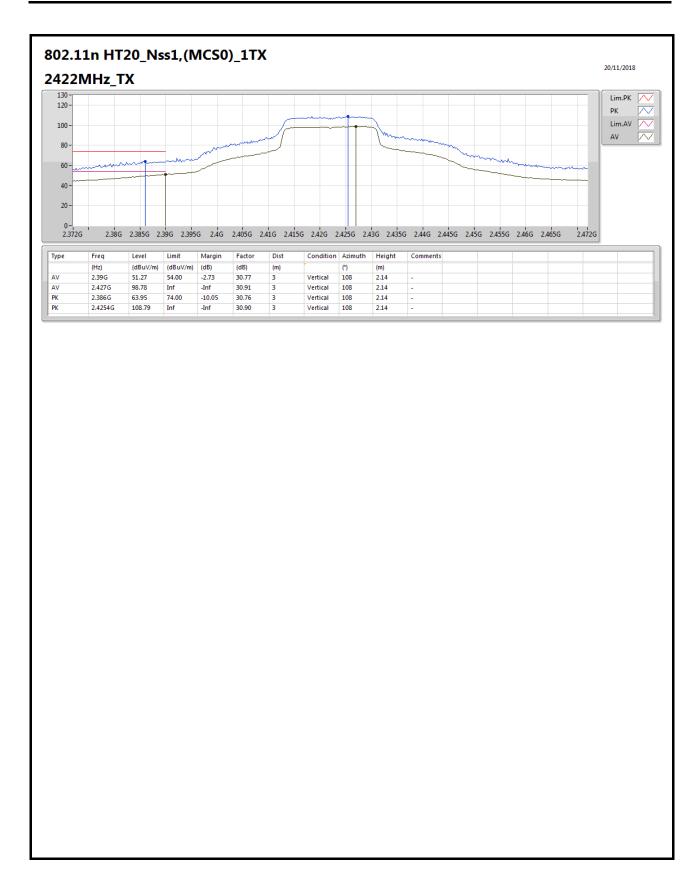




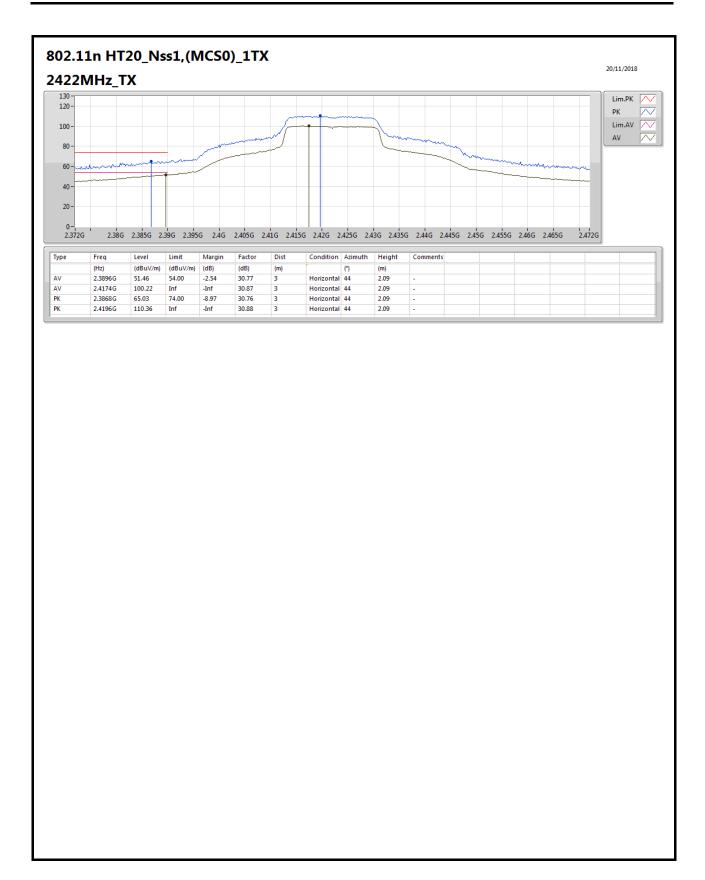


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F53 of F75



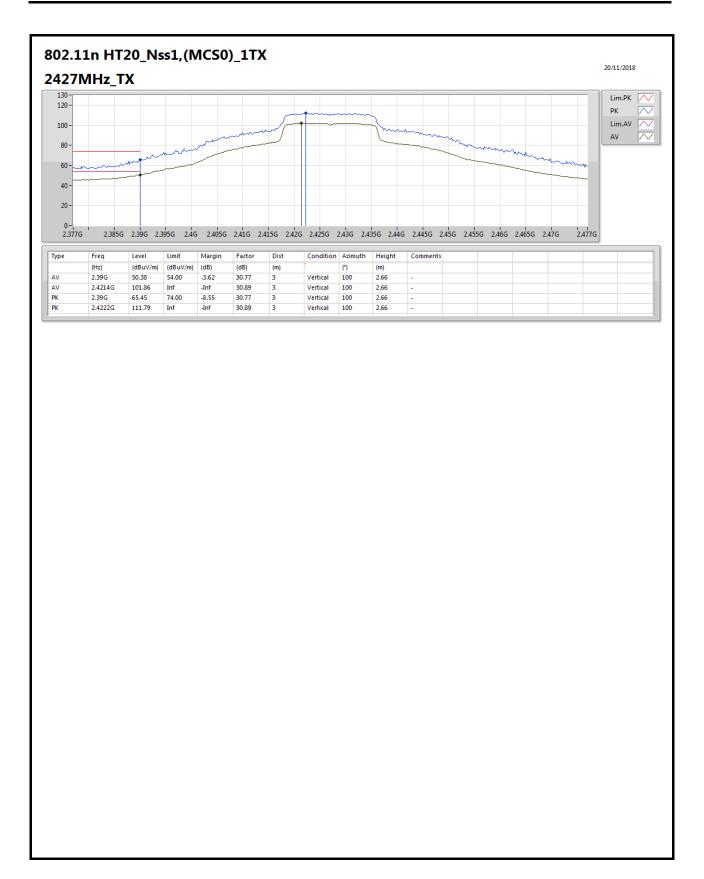






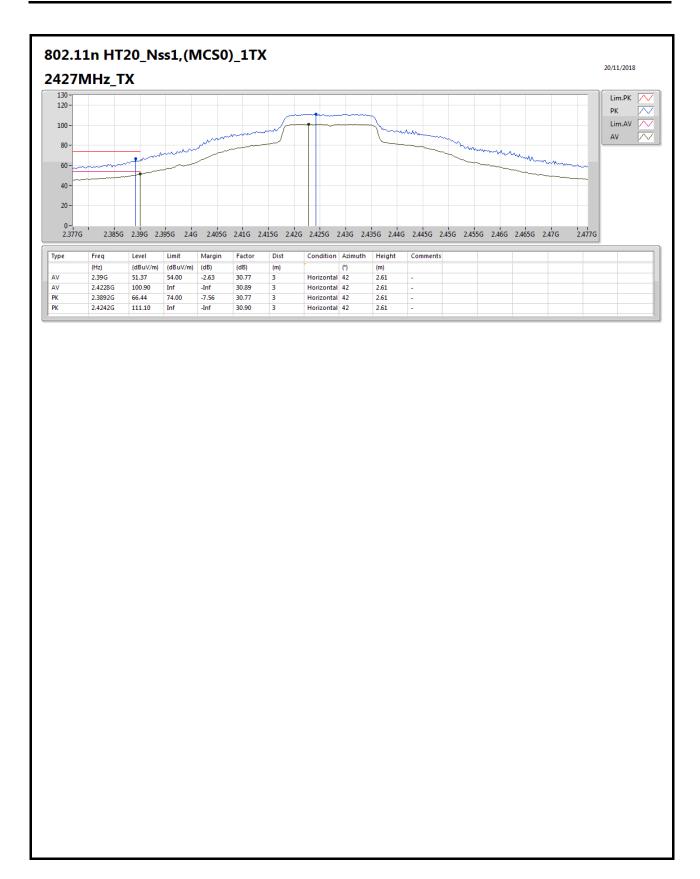
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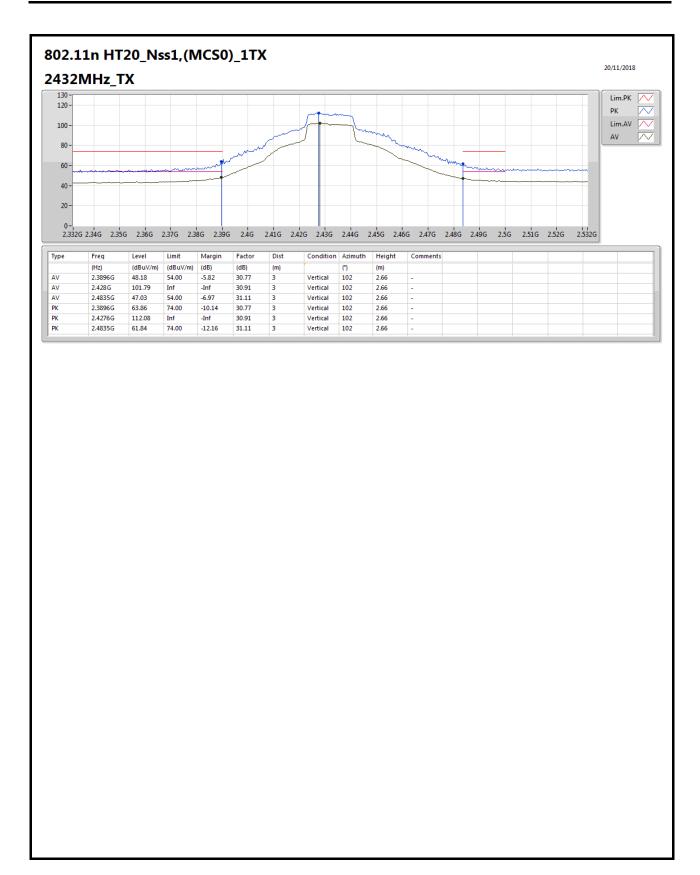


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F56 of F75



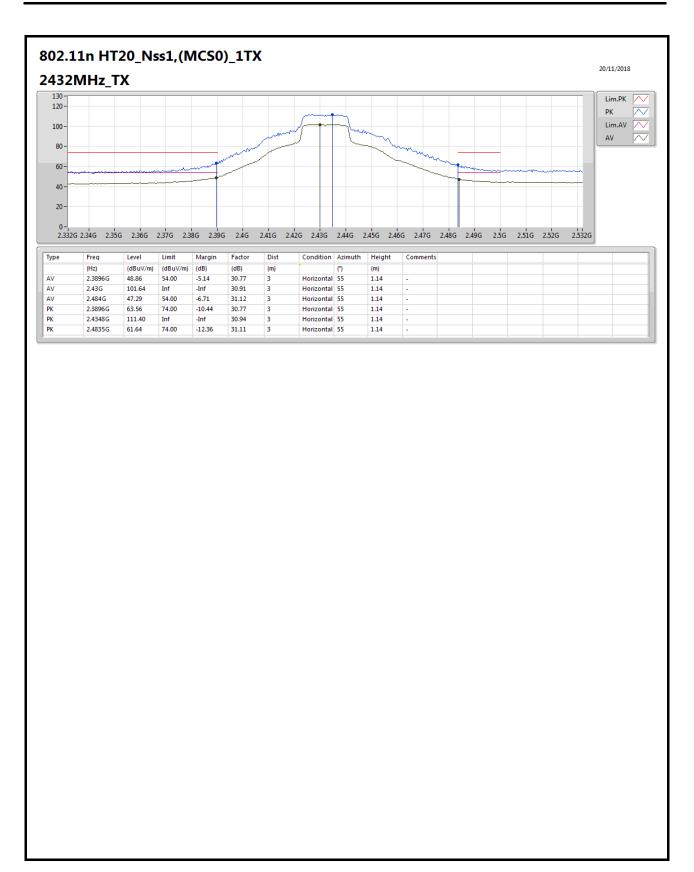






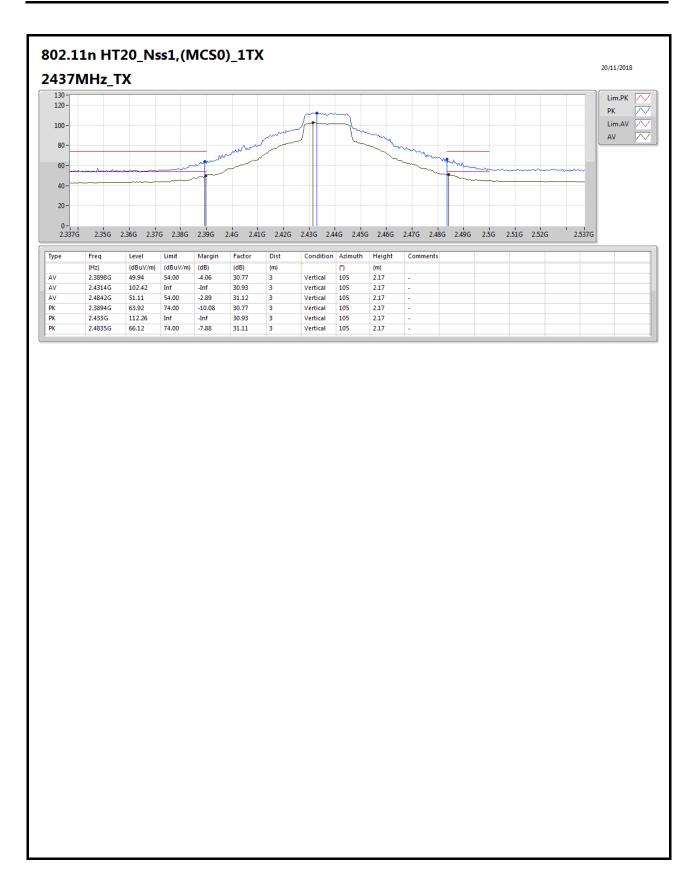
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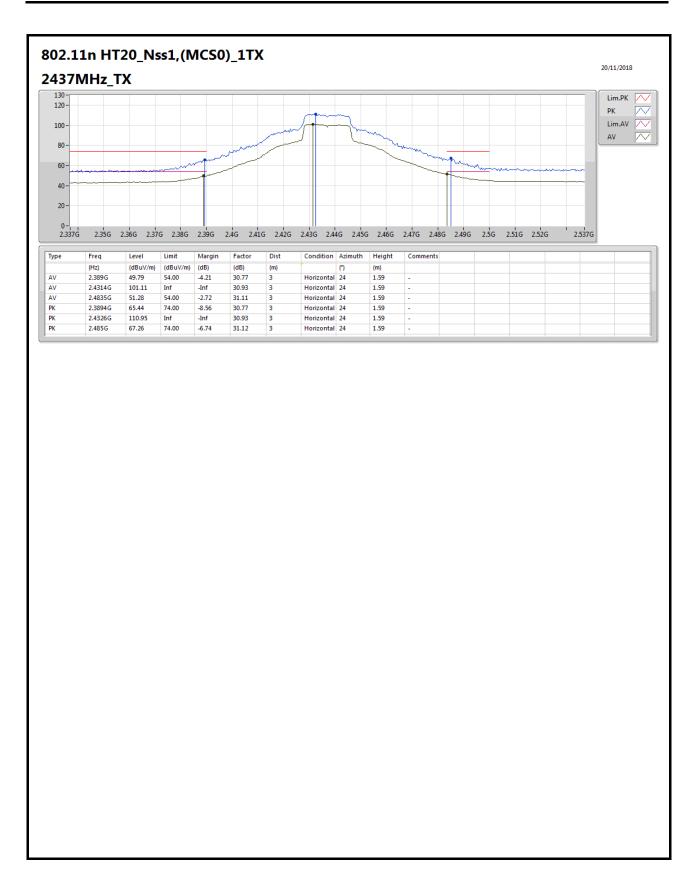


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F59 of F75

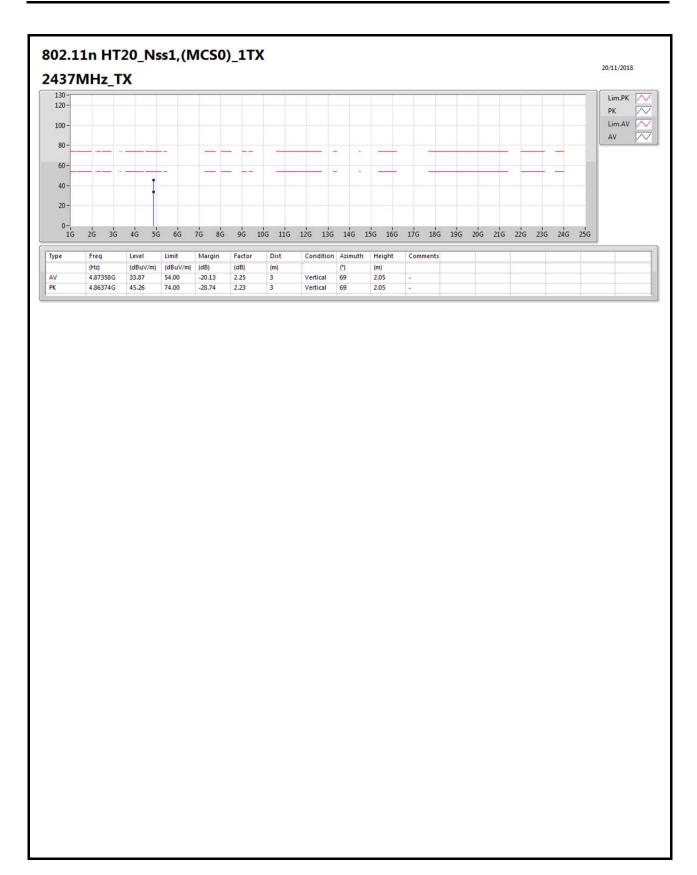






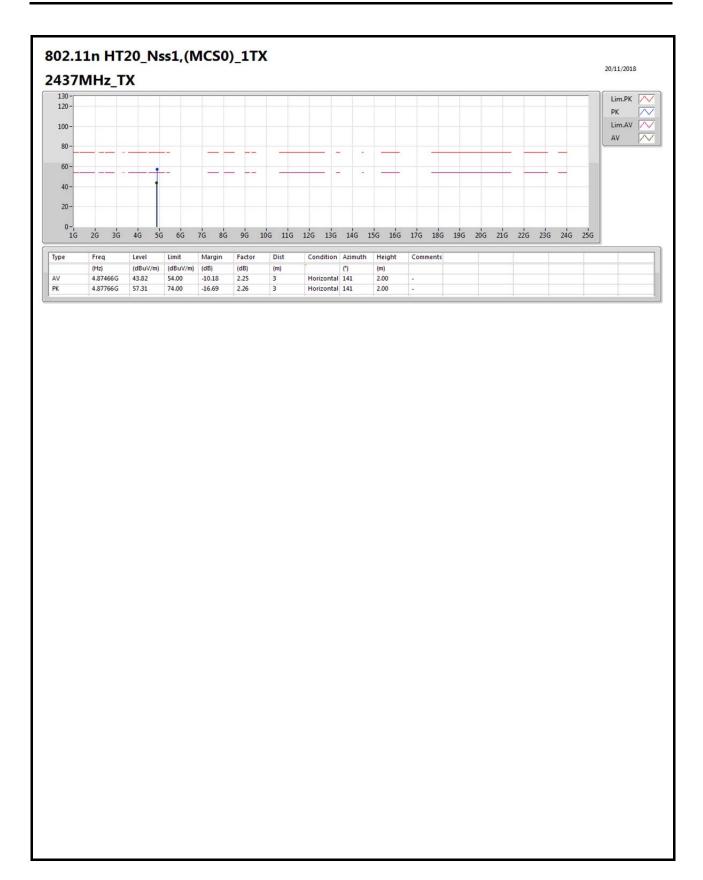






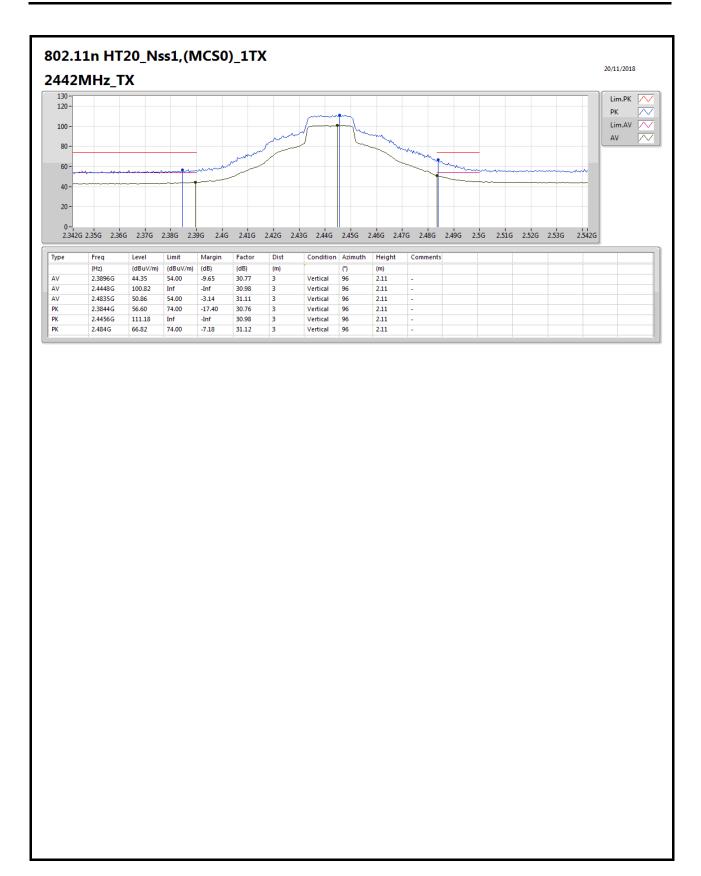
TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F62 of F75





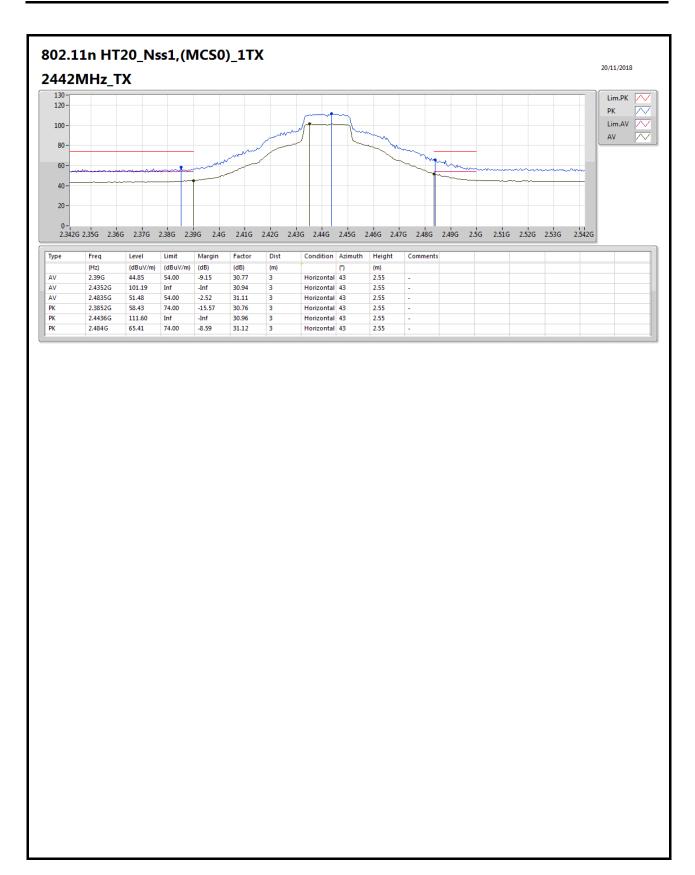
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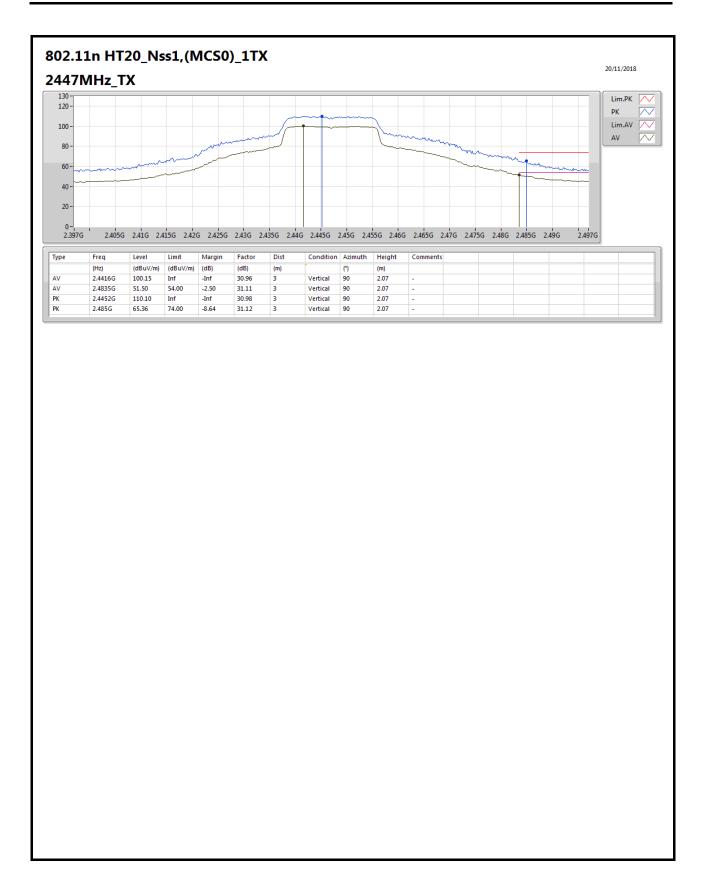


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F64 of F75

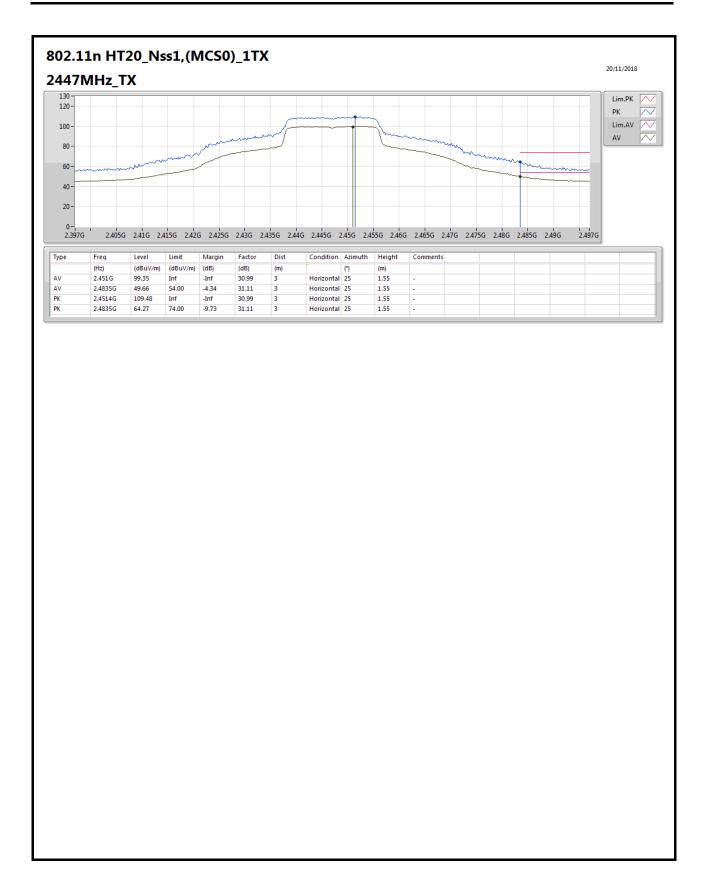






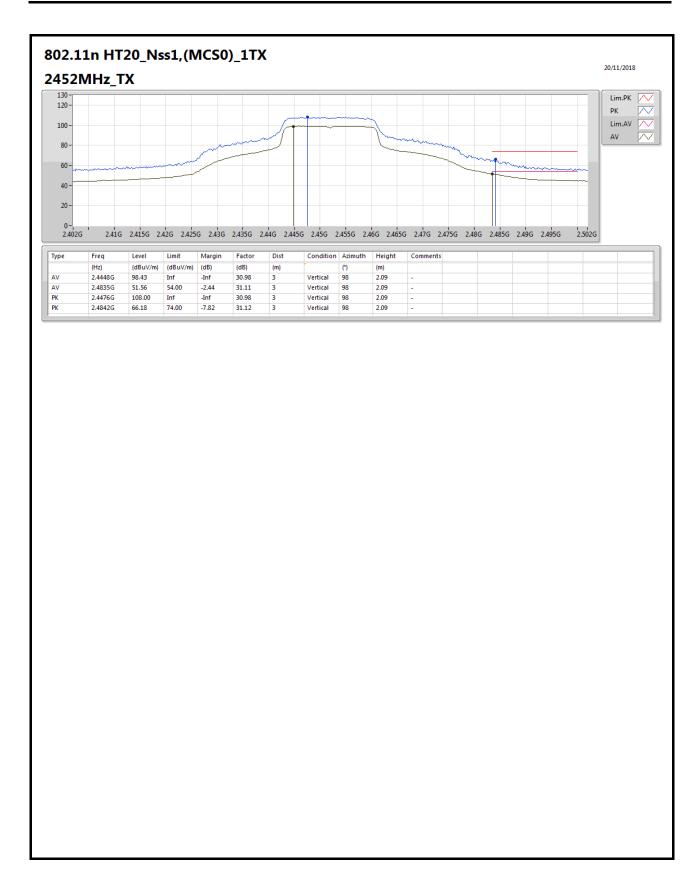




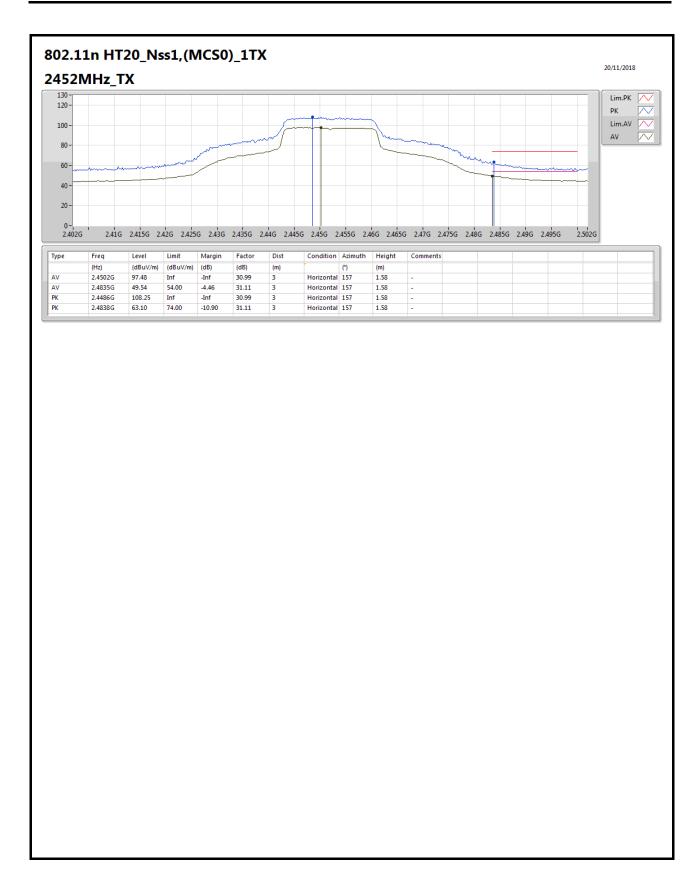


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F67 of F75



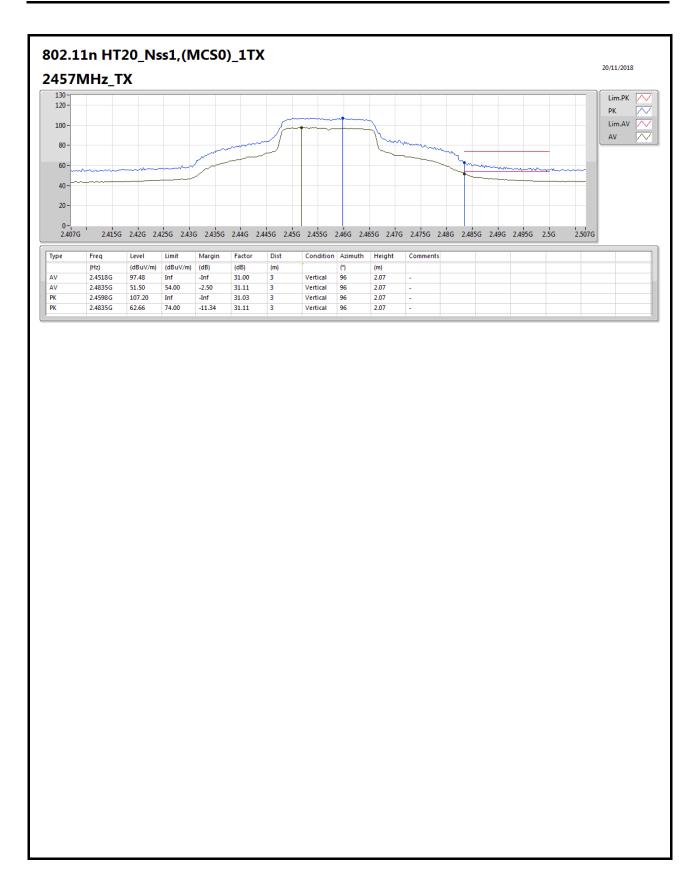






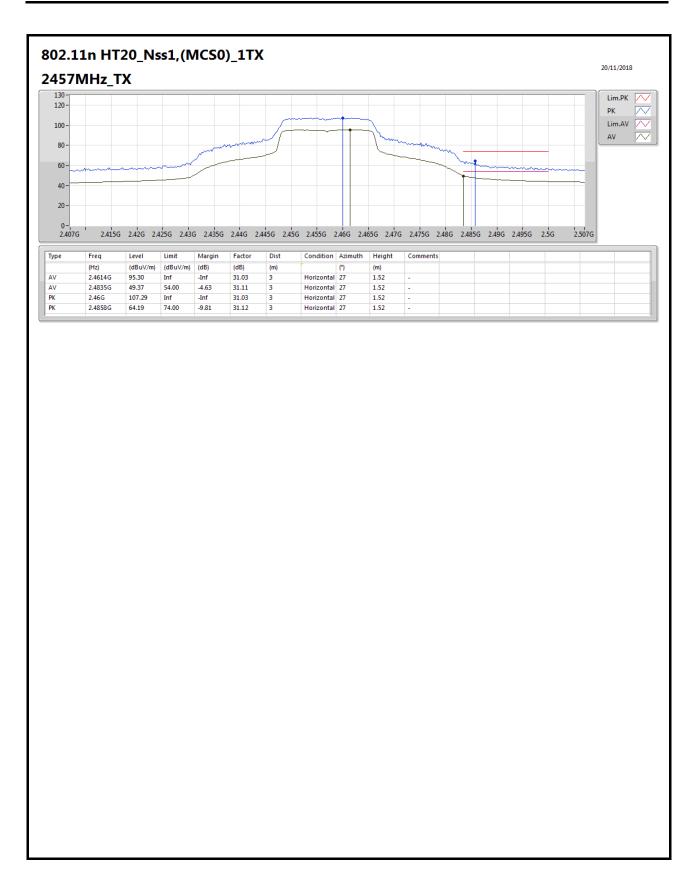
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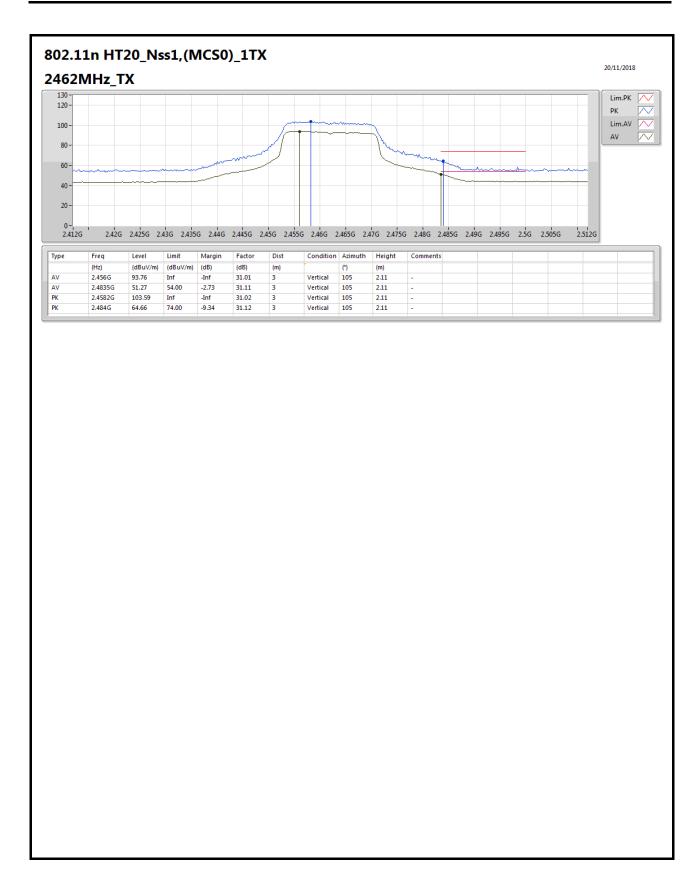
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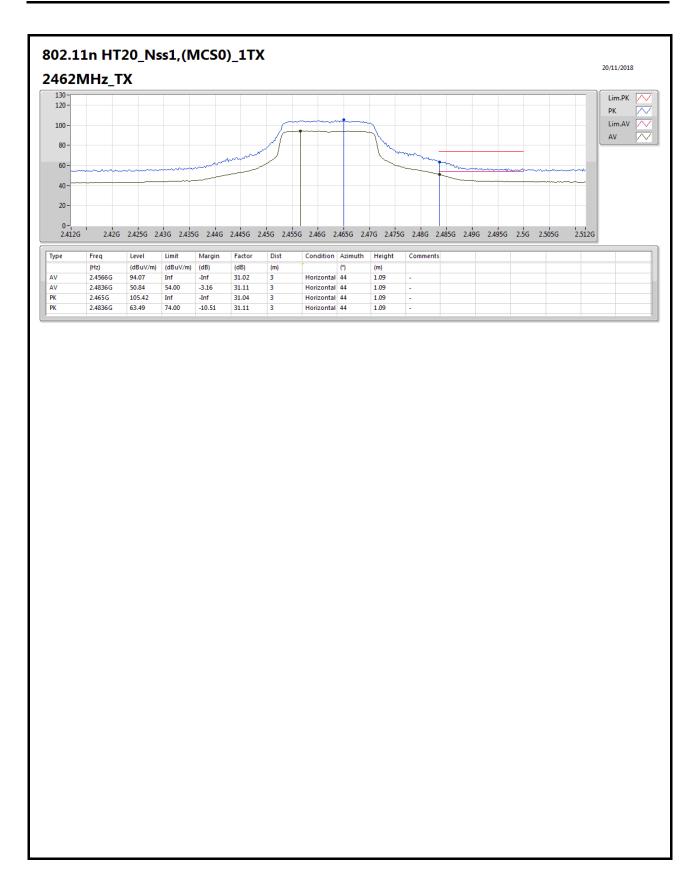
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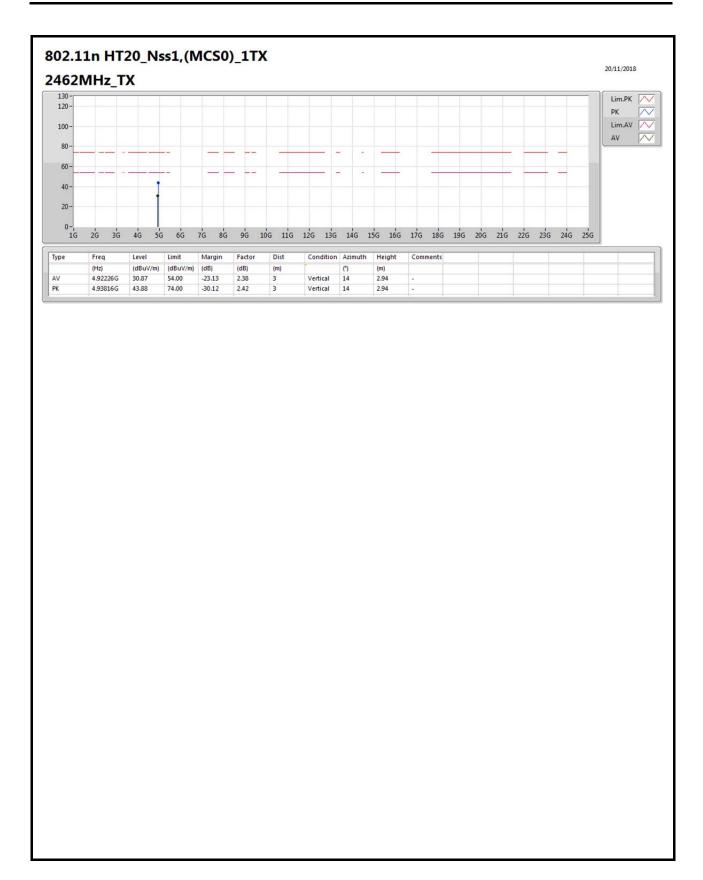
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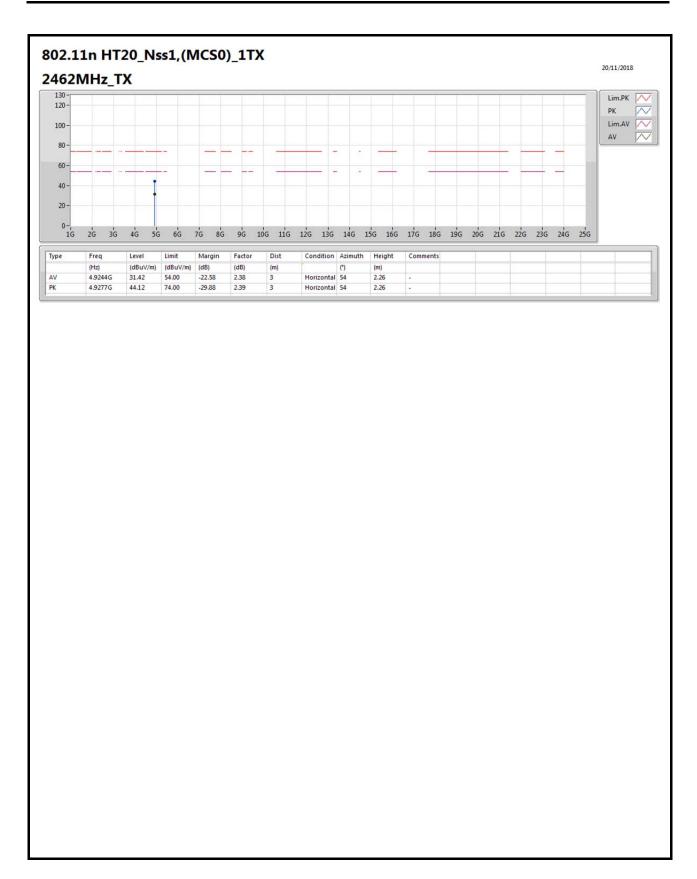


TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F73 of F75









TEL: 886-3-327-3456 FAX: 886-3-327-0973 Page No. : F75 of F75