

FCC Test Report

Equipment : Wireless Module
Brand Name : LITE-ON
Model No. : WN4520L
FCC ID : PPQ-WN4520L
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant : Lite-On Technology Corp.
Bldg. C, 90, Chien 1 Road, Chung Ho, New Taipei City
23585, Taiwan, R.O.C
Manufacturer : LITE-ON TECHNOLOGY (Changzhou) CO., LTD
A9 Building, No.88 Yanghu Road, Wujin Hi-Tech
Industrial Development Zone, Changzhou City,
Jiangsu Province 213100 China

The product sample received on Jun. 28, 2017 and completely tested on Aug. 16, 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.


Phoenix Chen
SPORTON INTERNATIONAL INC.





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PHOTOGRAPHS OF EUT v01



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

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]

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 and HT20 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)
1	1	LI-TEON	WN4520L	Printed Antenna	Murata	2.5

1.1.3 EUT Information

Operational Condition	
EUT Power Type	From Host system
Beamforming Function	<input type="checkbox"/> With beamforming <input checked="" type="checkbox"/> Without beamforming
Type of EUT	
<input checked="" type="checkbox"/>	Stand-alone
<input type="checkbox"/>	Combined (EUT where the radio part is fully integrated within another device)
	Combined Equipment - Brand Name / Model No.: ...
<input type="checkbox"/>	Plug-in radio (EUT intended for a variety of host systems)
	Host System - Brand Name / Model No.: ...
<input type="checkbox"/>	Other:

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	1	0	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11g	0.998	0.009	n/a (DC>=0.98)	n/a (DC>=0.98)
802.11n HT20	0.994	0.026	n/a (DC>=0.98)	n/a (DC>=0.98)



1.1.5 Table for Explanation of Crystal

EUT No.	Brand Name	Model Name
1	HOSONIC	E1SB24E00000SE
2	TAI-SAW	TX0693A

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 v04

1.3 Testing Location Information

Testing Location		
<input checked="" type="checkbox"/>	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.		
<input type="checkbox"/>	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	TH01-HY	Ryan	21°C / 64%	16/Aug/2017
Radiated	03CH09-HY	Jeff	22.2C / 51%	06/Jul/2017
AC Conduction	CO01-HY	Teddy	24°C / 54%	20/Jul/2017

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)	3.6 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%

2 Test Configuration of EUT




2.1 Test Condition

RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	4V

2.2 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	Normal Link
1	Normal-2.4G Link power from USB
2	Normal-5G Link power from USB
Mode 2 configuration was tested and found to be the worst case and measured during the test.	

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 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 < 1GHz	CTX		
1	USB Mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	



2.3 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	DC Source	G.W	APS-9102	-
4	Test fixture	-	-	-

Note: Support equipment No.4 was provided by customer.

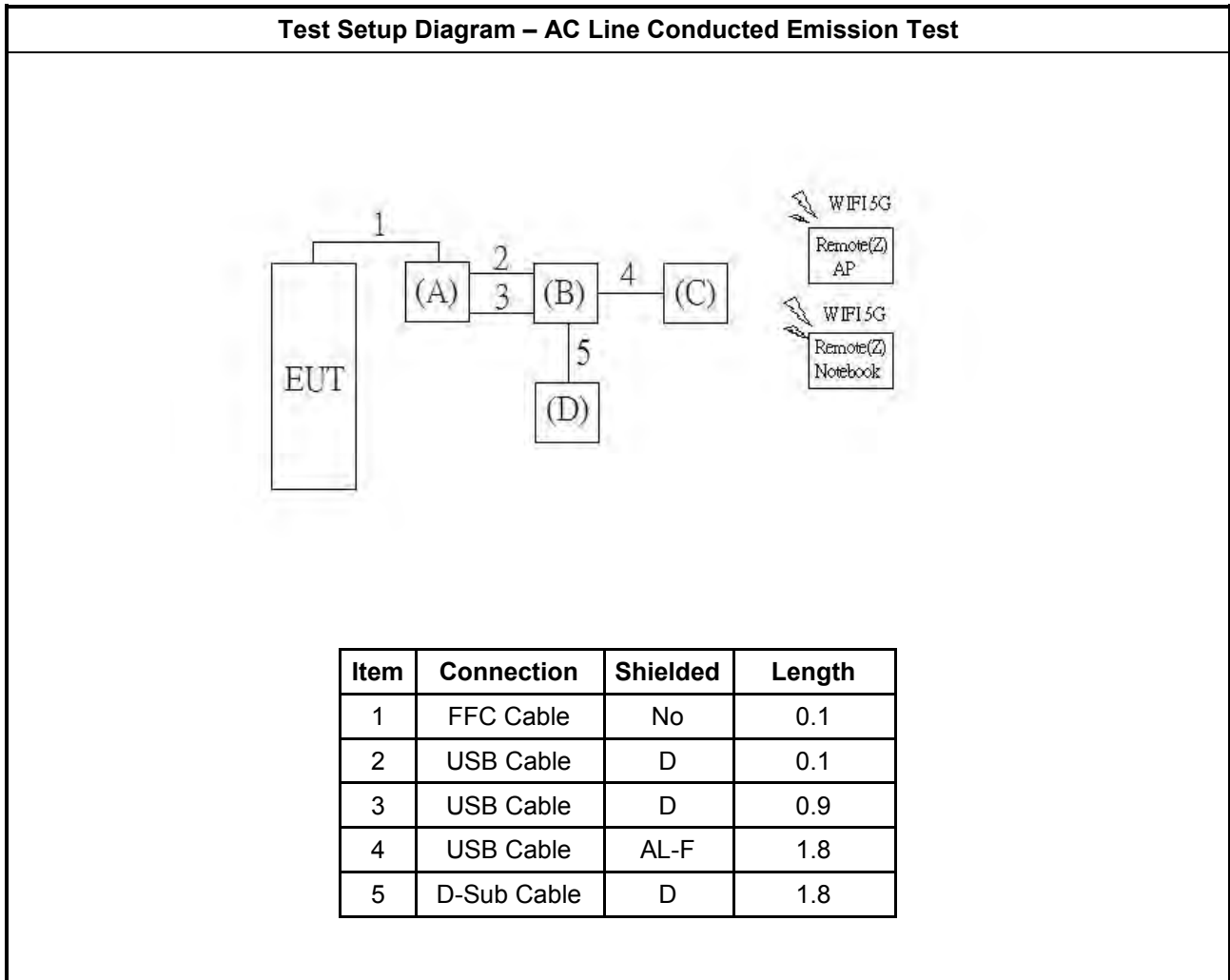
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E6400	DoC
2	Mouse(USB)	Microsoft	M-S69	DoC
3	iPod	APPLE	7J6416BZVQ5	DoC
4	Test fixture	-	-	-

Note: Support equipment No.4 was provided by customer.

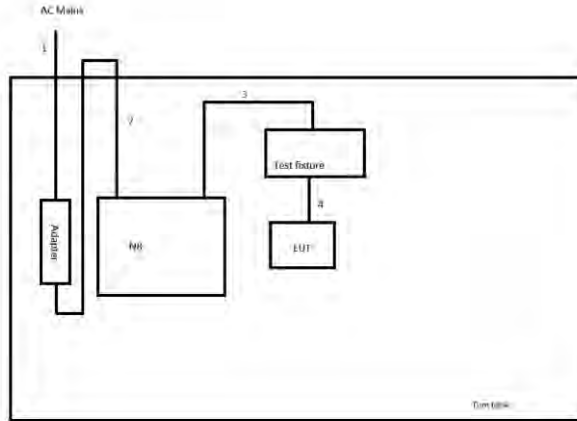
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
A	Test fixture	-	-	-
B	Notebook	DELL	VOSTRO 3350	DoC
C	Mouse	Microsoft	1113	DoC
D	LCD Monitor	DELL	UltraSharp U2410f	DoC

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

2.4 Test Setup Diagram



Test Setup Diagram – Radiated Test



Item	Connection	Shielded	Length
1	AC Power line	No	1.5m
2	DC Power line	No	1.5m
3	USB cable	D	0.18m
4	RF cable	No	0.1m

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

Note 1: * Decreases with the logarithm of the frequency.

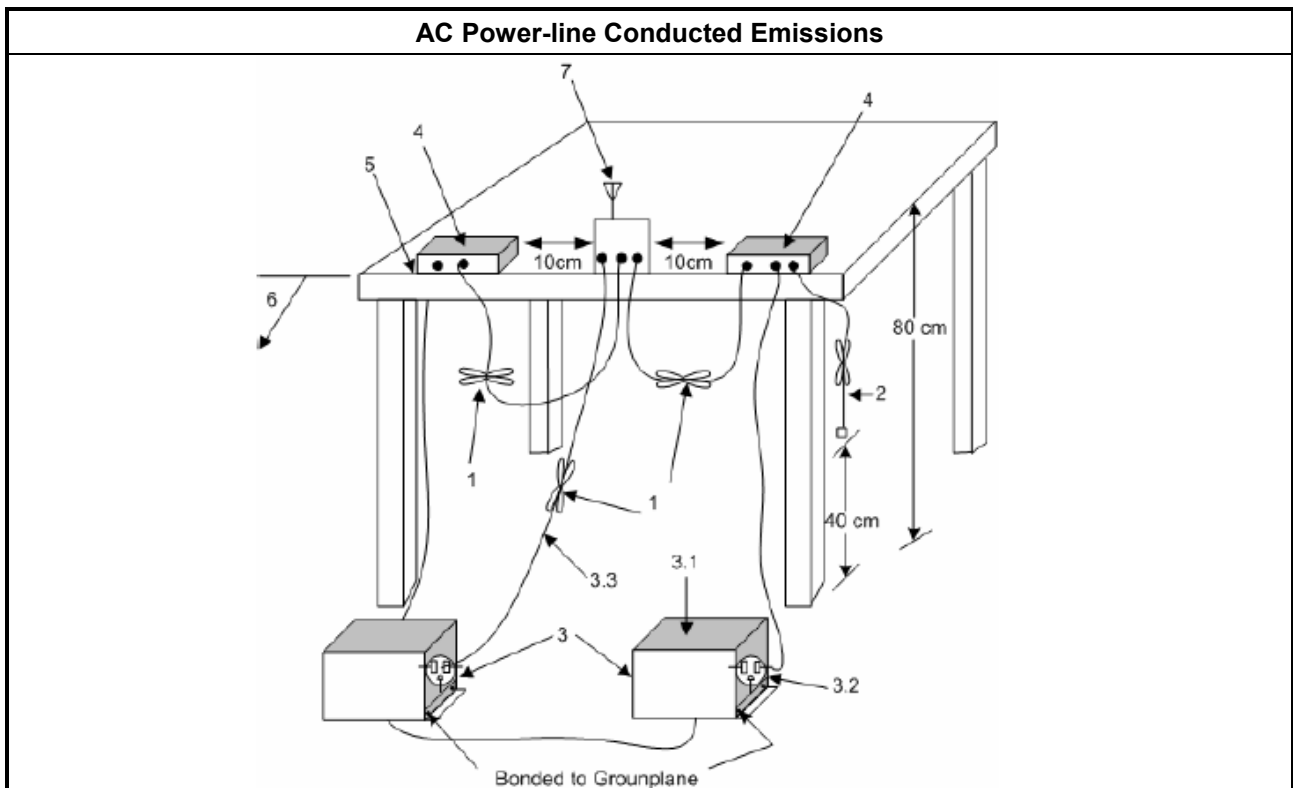
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> 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

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
<ul style="list-style-type: none"> ▪ 6 dB bandwidth \geq 500 kHz.

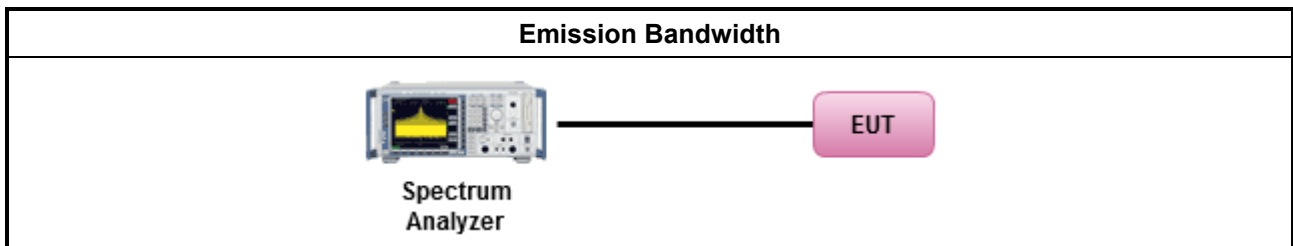
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ For the emission bandwidth shall be measured using one of the options below: 	
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
<input type="checkbox"/>	Refer as RSS-Gen, clause 6.6 for for occupied bandwidth testing.
<input type="checkbox"/>	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	<ul style="list-style-type: none"> ▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS):
	<ul style="list-style-type: none"> - Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	<ul style="list-style-type: none"> - 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. Power Limit:	
	<ul style="list-style-type: none"> ▪ 2400-2483.5 MHz Band
	<ul style="list-style-type: none"> ▪ Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	<ul style="list-style-type: none"> ▪ Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	<ul style="list-style-type: none"> ▪ Smart antenna system (SAS)
	<ul style="list-style-type: none"> - Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	<ul style="list-style-type: none"> - Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
<p>P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.</p>	

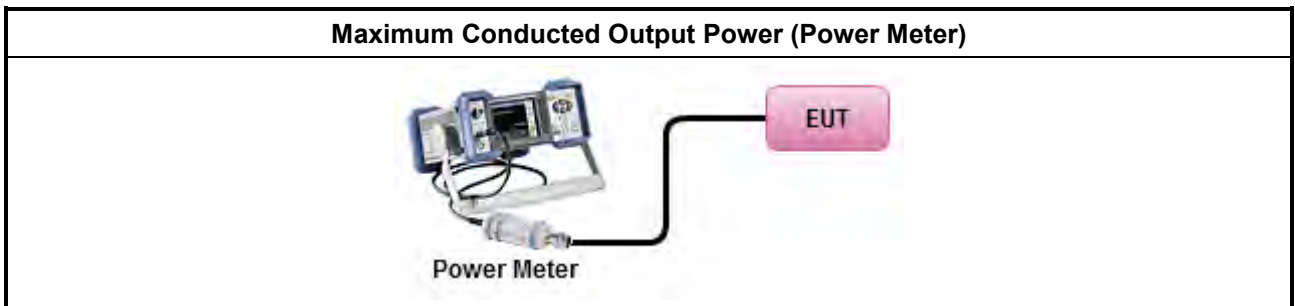
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.2 Option 2 (integrated band power method)
<input type="checkbox"/>	Refer as KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> ▪ Maximum Average Conducted Output Power 	
Duty cycle ≥ 98%	
<input type="checkbox"/>	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
Duty cycle < 98%	
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (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

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

Power Spectral Density Limit
<ul style="list-style-type: none"> Power Spectral Density (PSD) \leq 8 dBm/3kHz

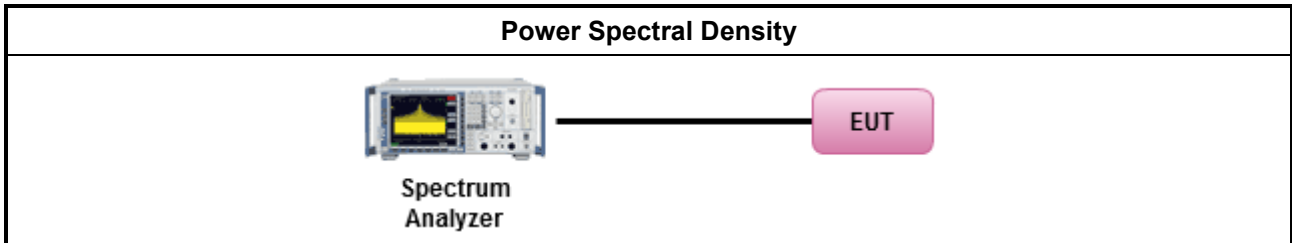
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> 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). 	
<input checked="" type="checkbox"/> Refer as KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak).	
<ul style="list-style-type: none"> For conducted measurement. 	
<ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: 	
<input type="checkbox"/>	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

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

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.

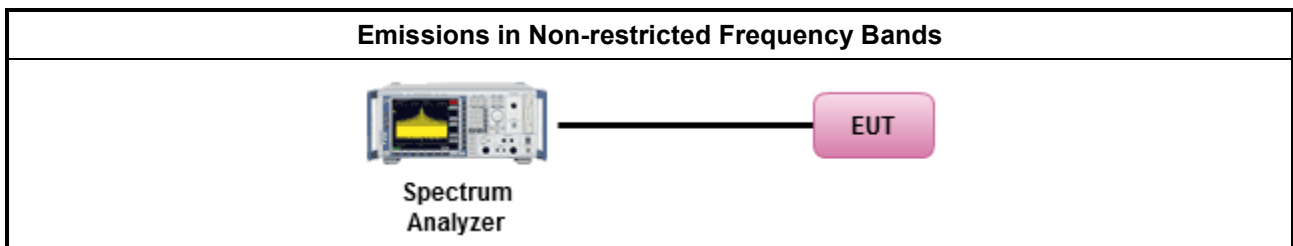
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as KDB 558074, clause 11 for unwanted emissions into non-restricted bands.

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E



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

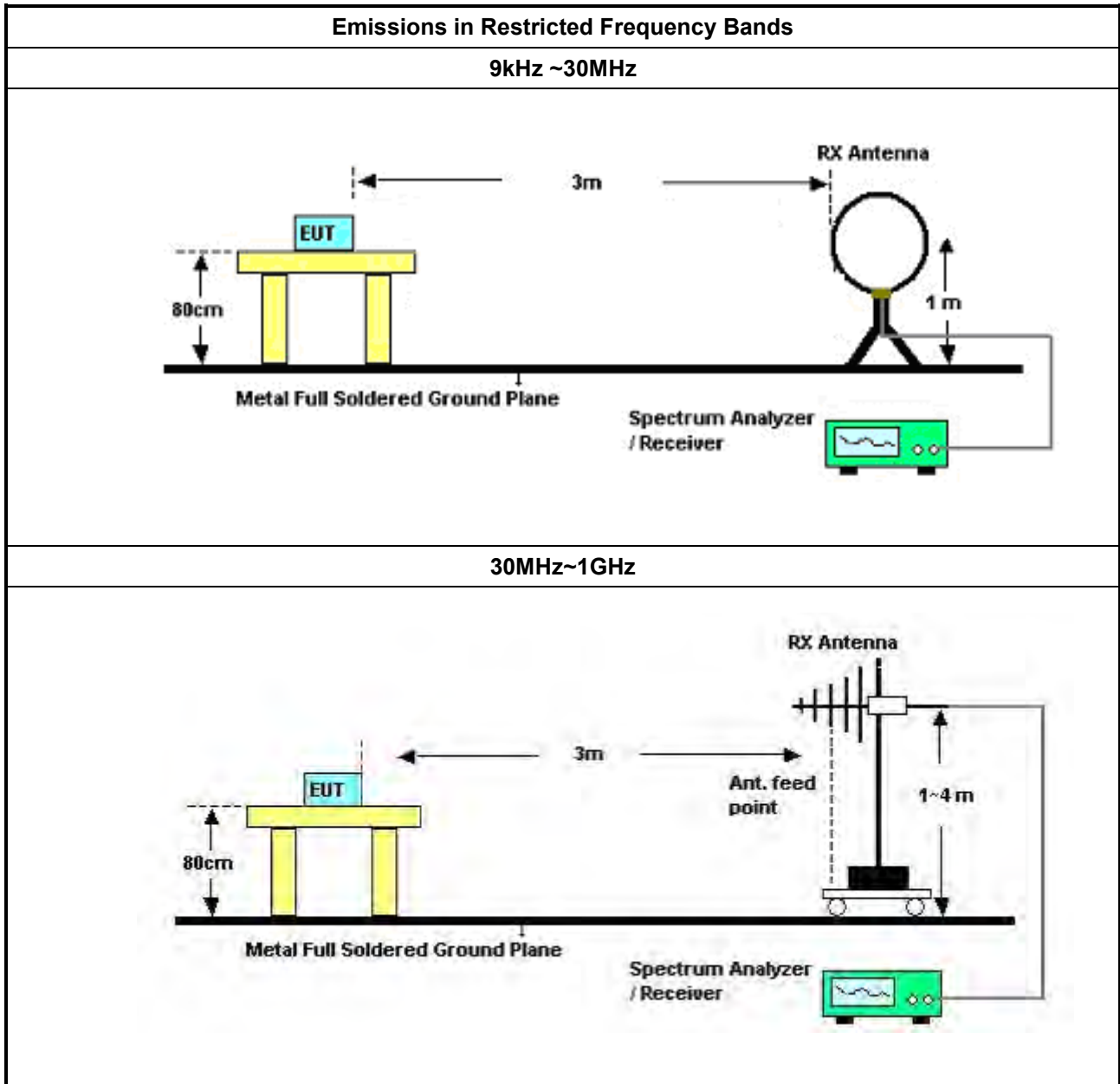
Refer a test equipment and calibration data table in this test report.

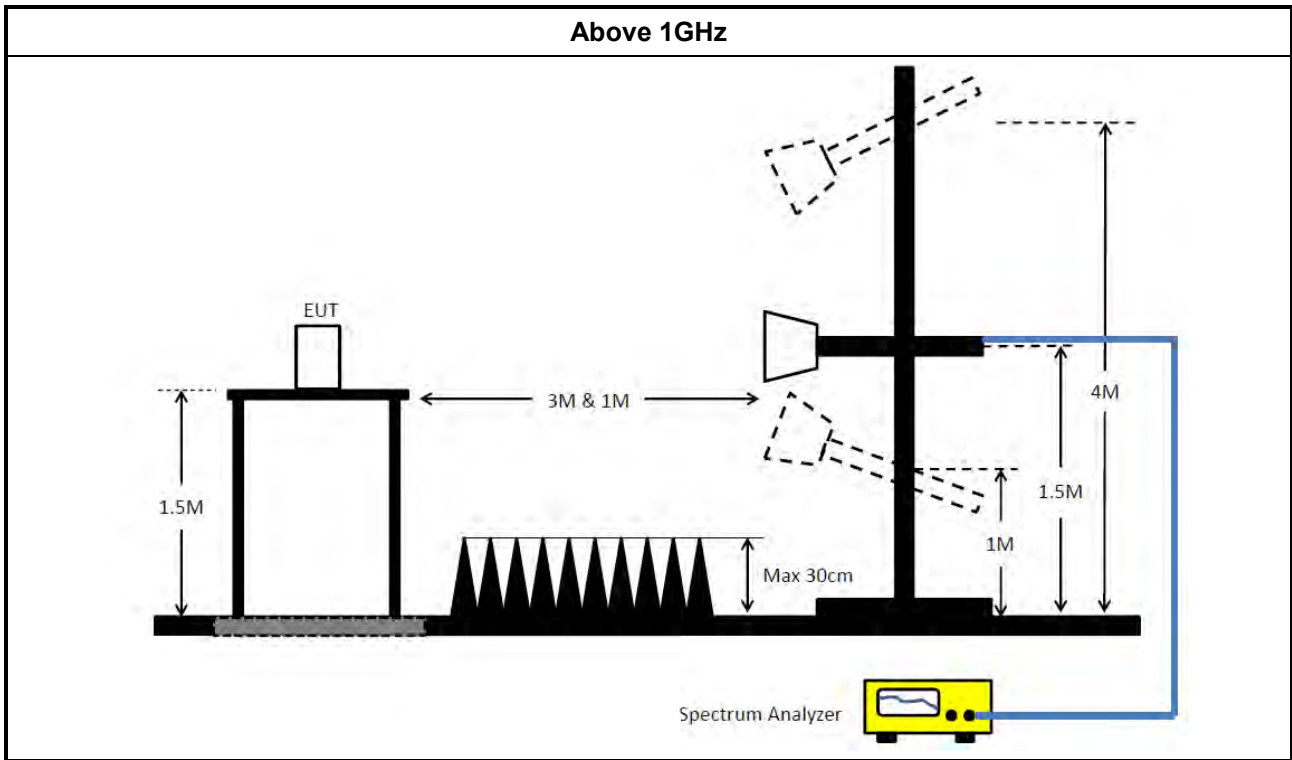


3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle \geq 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 12 for unwanted emissions into restricted bands.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 12.2.5.3 (ANSI C63.10, clause 4.1.4.2.3), Reduced VBW \geq 1/T.
<input checked="" type="checkbox"/>	Refer as KDB 558074, clause 12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ 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.
	<ul style="list-style-type: none"> ▪ Refer as KDB 558074, clause 13.2 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ 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).
<ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as KDB 558074, clause 12.2.2. 	
	<ul style="list-style-type: none"> ▪ 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
	<ul style="list-style-type: none"> ▪ 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.

3.6.4 Test Setup





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



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+SUHNER	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

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	25/Apr/2017	24/Apr/2018
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	27/Nov/2016	26/Nov/2017
Amplifier	Agilent	8449B	3008A02096	1GHz ~ 26.5GHz	25/Apr/2017	24/Apr/2018
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	25/Apr/2017	24/Apr/2018
Spectrum Analyzer	KEYSIGHT	N9010A	MY54200882	10Hz ~ 44GHz	15/Jul/2016	14/Jul/2017
Bilog Antenna	TESEQ	CBL 6111D	35418	30MHz~1GHz	01/Oct/2016	30/Sep/2017
Horn Antenna	SCHWARZBECK	BBHA 9120D	BBHA9120D 1534	1GHz~18GHz	28/Apr/2017	27/Apr/2018
Horn Antenna	SCHWARZBECK	BBHA9170	BBHA9170614	18GHz ~ 40GHz	06/Feb/2017	05/Feb/2018
Loop Antenna	R&S	HFH2-Z2	100330	9 kHz~30 MHz	10/Nov/2016	09/Nov/2017
RF Cable-R03m	Jye Bao	RG142	CB021	9kHz ~ 1GHz	23/Jul/2016	22/Jul/2017
RF Cable-high	Jye Bao	RG142	03CH09-HY	1GHz ~ 40GHz	23/Jul/2016	22/Jul/2017
Receiver	R&S	ESU-26	100422/026	20Hz ~ 26.5GHz	21/Sep/2016	20/Sep/2017

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	30/Dec/2016	29/Dec/2017
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	10/Feb/2017	09/Feb/2018
Signal Generator	R&S	SMR40	100116	10MHz ~ 40GHz	21/Jul/2016	20/Jul/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017
RF Cable-0.5m	HUBER+SUHNER	SUCOFLEX_104	MY10713/4	30MHz ~ 26.5GHz	02/Oct/2016	01/Oct/2017



AC Power-line Conducted Emissions Result																																																																																																																																	
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<p>The graph displays the AC power-line conducted emissions. The y-axis represents Level in dBuV, ranging from 0 to 80. The x-axis represents Frequency in MHz, ranging from 0.15 to 30. Two red lines indicate the limits: the upper line is labeled 'CNS/VCCI/CISPR-B' and the lower line is labeled 'CNS/VCCI/CISPR-B AV'. A blue line shows the measured emission levels, which generally stay below the limits, with a peak at 0.91 MHz labeled '10'.</p>																																																																																																																																	
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Summary

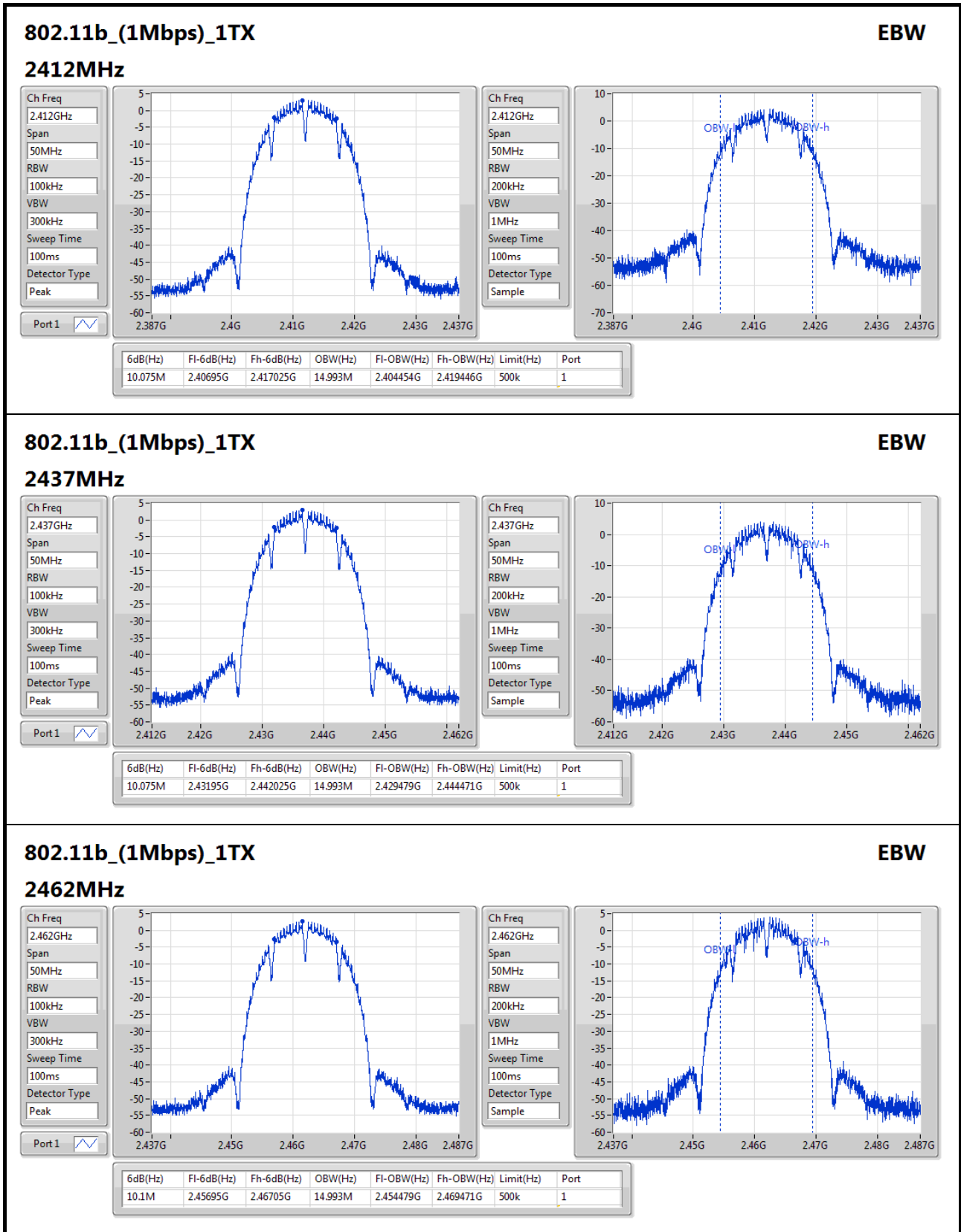
Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2.4-2.4835GHz	10.1M	14.993M	15M0G1D	10.075M	14.993M
802.11g_(6Mbps)_1TX	-	-	-	-	-
2.4-2.4835GHz	16.525M	16.517M	16M5D1D	16.525M	16.467M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2.4-2.4835GHz	17.6M	17.641M	17M6D1D	17.6M	17.641M

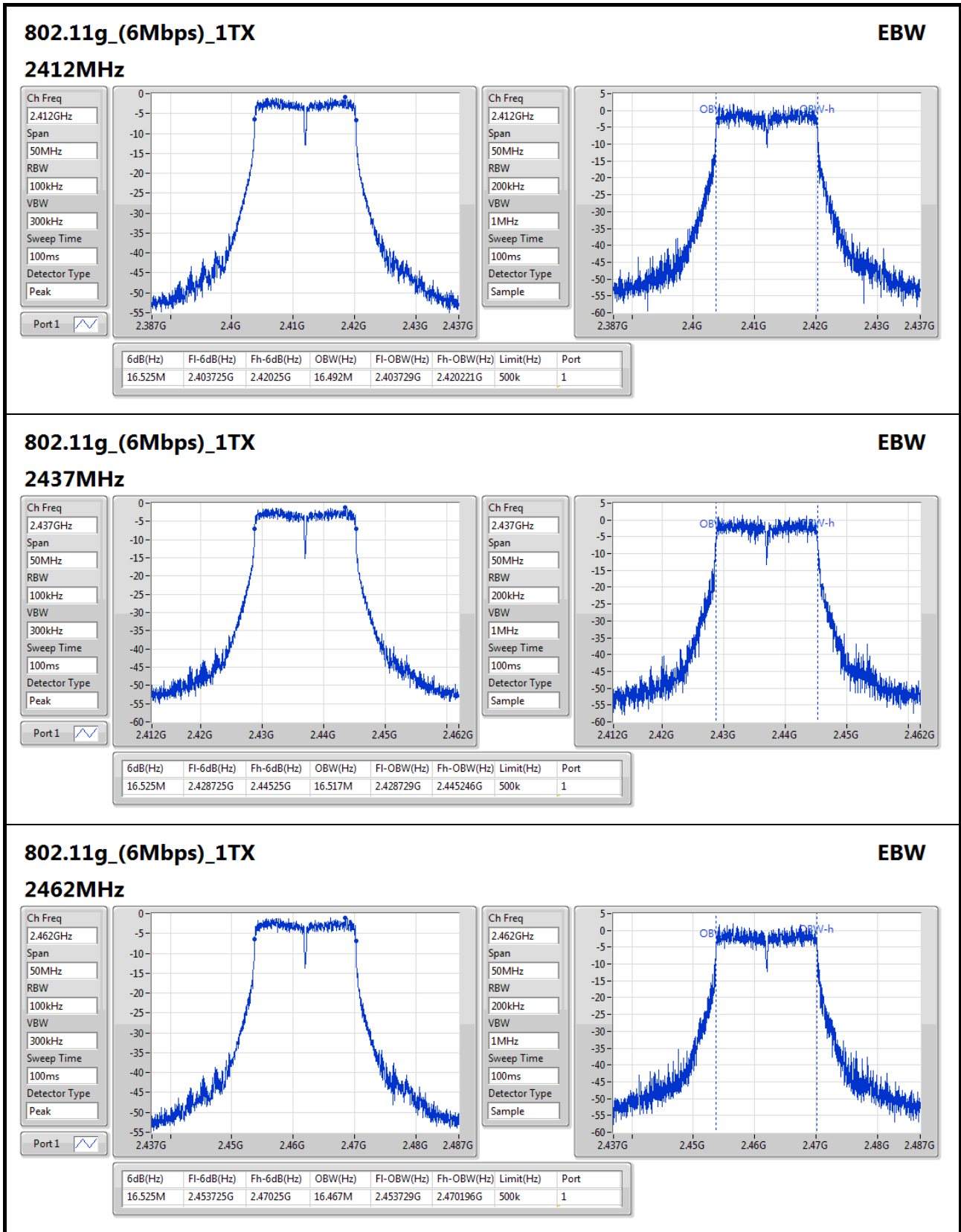
Max-N dB = Maximum 6dB down bandwidth; **Max-OBW** = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; **Min-OBW** = Minimum 99% occupied bandwidth;

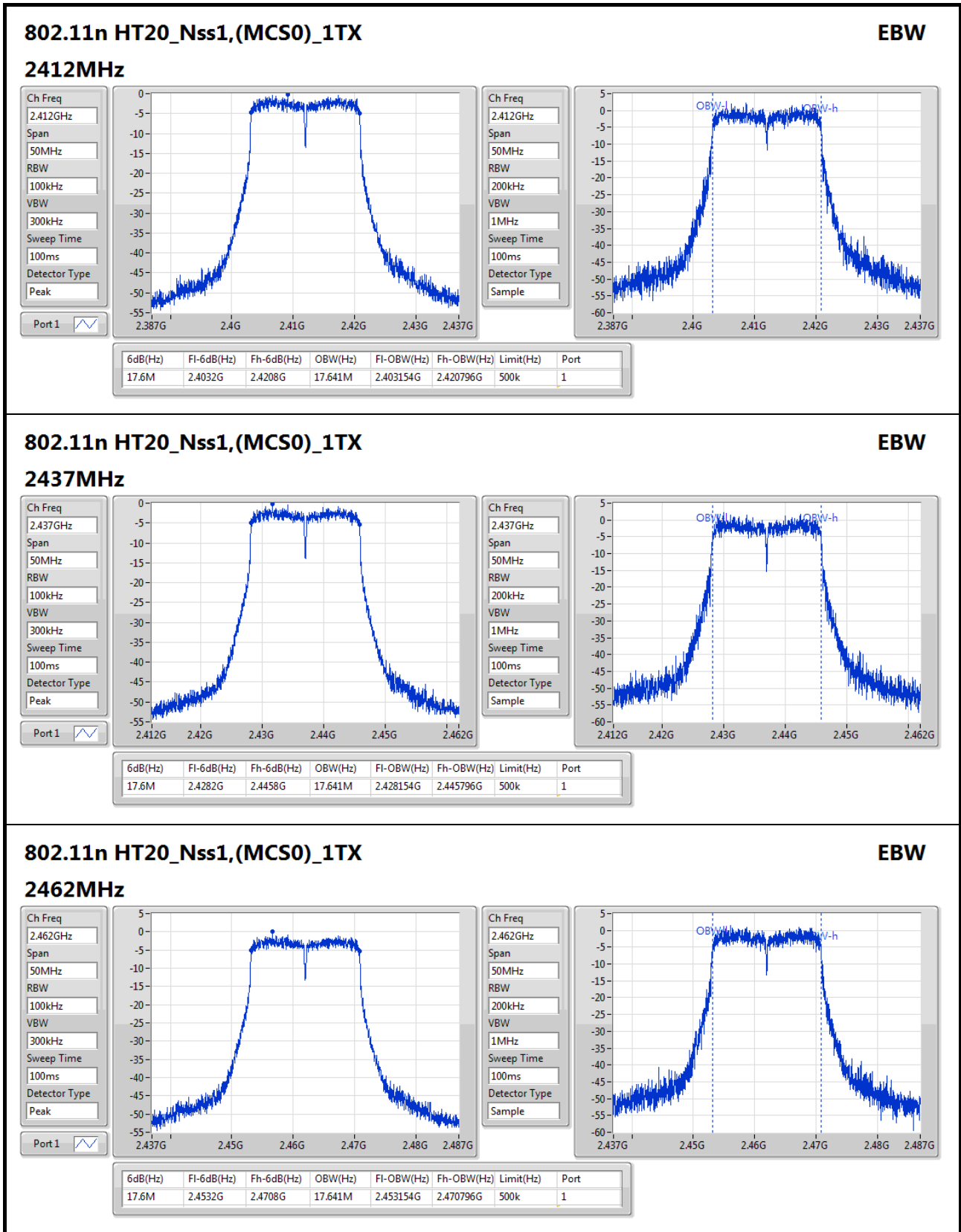
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	10.075M	14.993M
2437MHz	Pass	500k	10.075M	14.993M
2462MHz	Pass	500k	10.1M	14.993M
802.11g_(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.525M	16.492M
2437MHz	Pass	500k	16.525M	16.517M
2462MHz	Pass	500k	16.525M	16.467M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	17.6M	17.641M
2437MHz	Pass	500k	17.6M	17.641M
2462MHz	Pass	500k	17.6M	17.641M

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









Summary

Mode	Total Power (dBm)	Total Power (W)
802.11b_(1Mbps)_1TX	-	-
2.4-2.4835GHz	13.89	0.02449
802.11g_(6Mbps)_1TX	-	-
2.4-2.4835GHz	13.84	0.02421
802.11n HT20_Nss1,(MCS0)_1TX	-	-
2.4-2.4835GHz	13.87	0.02438

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	13.89	13.89	30.00
2437MHz	Pass	2.50	13.69	13.69	30.00
2462MHz	Pass	2.50	13.75	13.75	30.00
802.11g_(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	13.81	13.81	30.00
2437MHz	Pass	2.50	13.56	13.56	30.00
2462MHz	Pass	2.50	13.84	13.84	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	13.87	13.87	30.00
2437MHz	Pass	2.50	13.63	13.63	30.00
2462MHz	Pass	2.50	13.77	13.77	30.00

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



Summary

Mode	PD (dBm/RBW)
802.11b_(1Mbps)_1TX	-
2.4-2.4835GHz	-17.04
802.11g_(6Mbps)_1TX	-
2.4-2.4835GHz	-15.40
802.11n HT20_Nss1,(MCS0)_1TX	-
2.4-2.4835GHz	-14.22

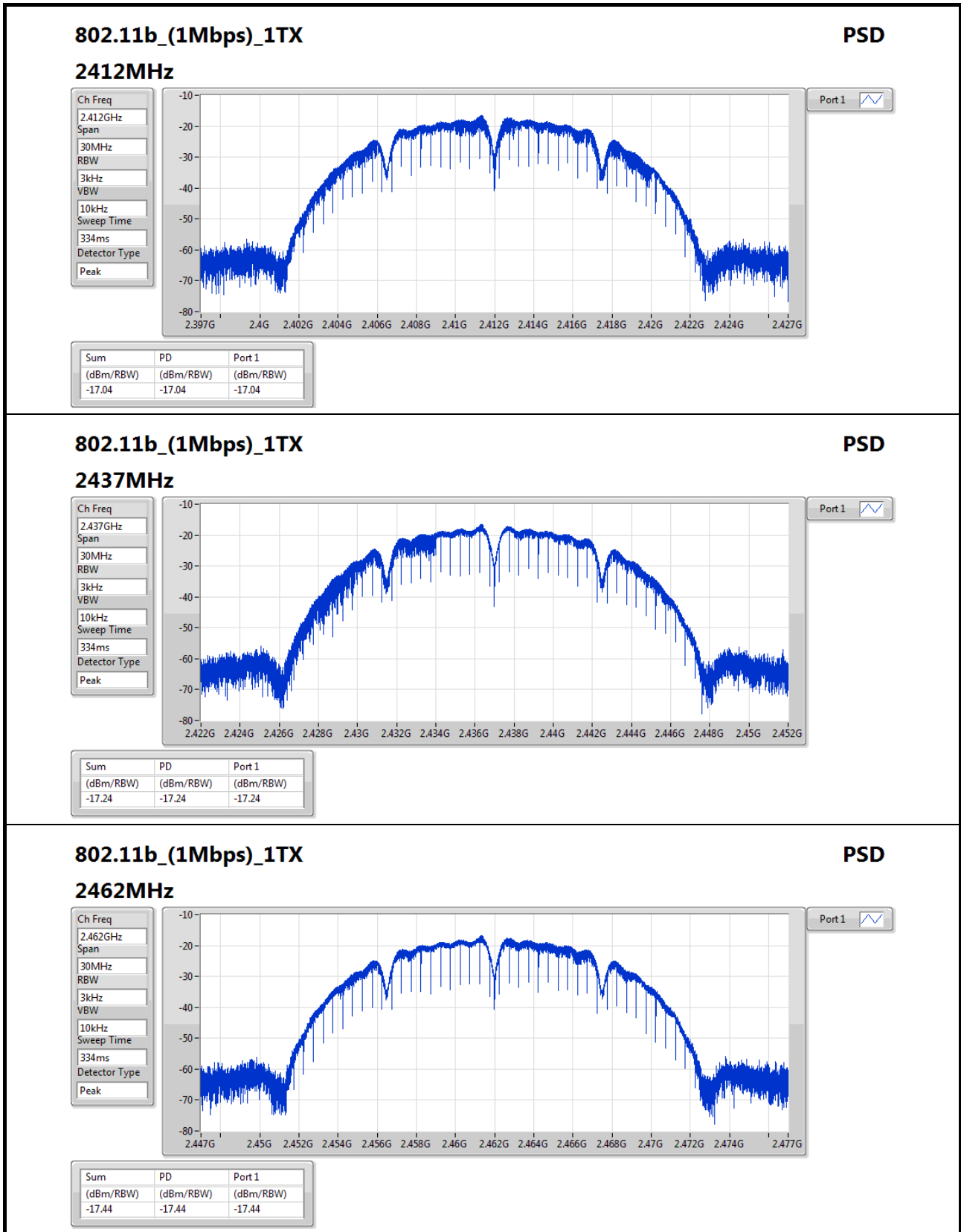
RBW=3kHz.

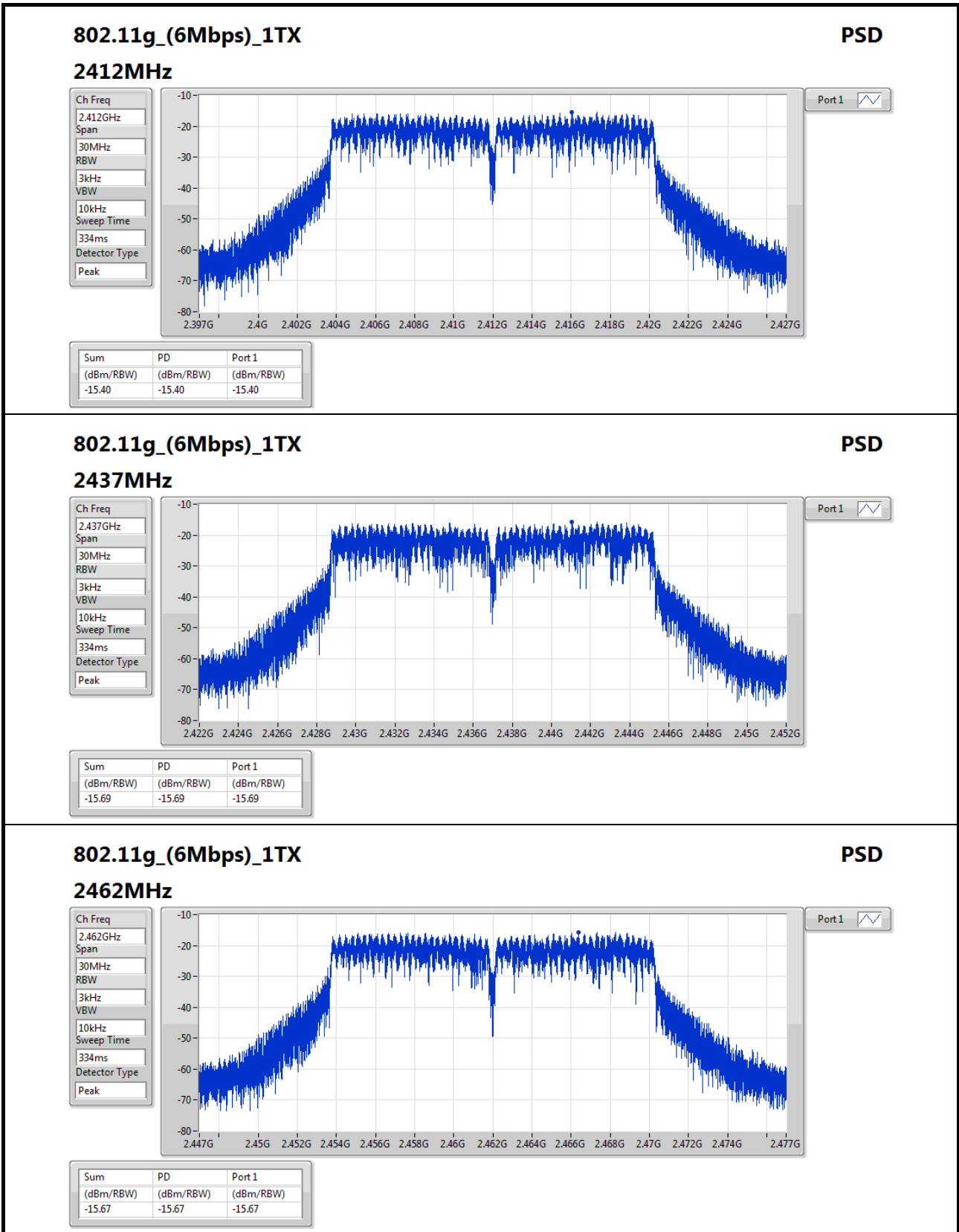
Result

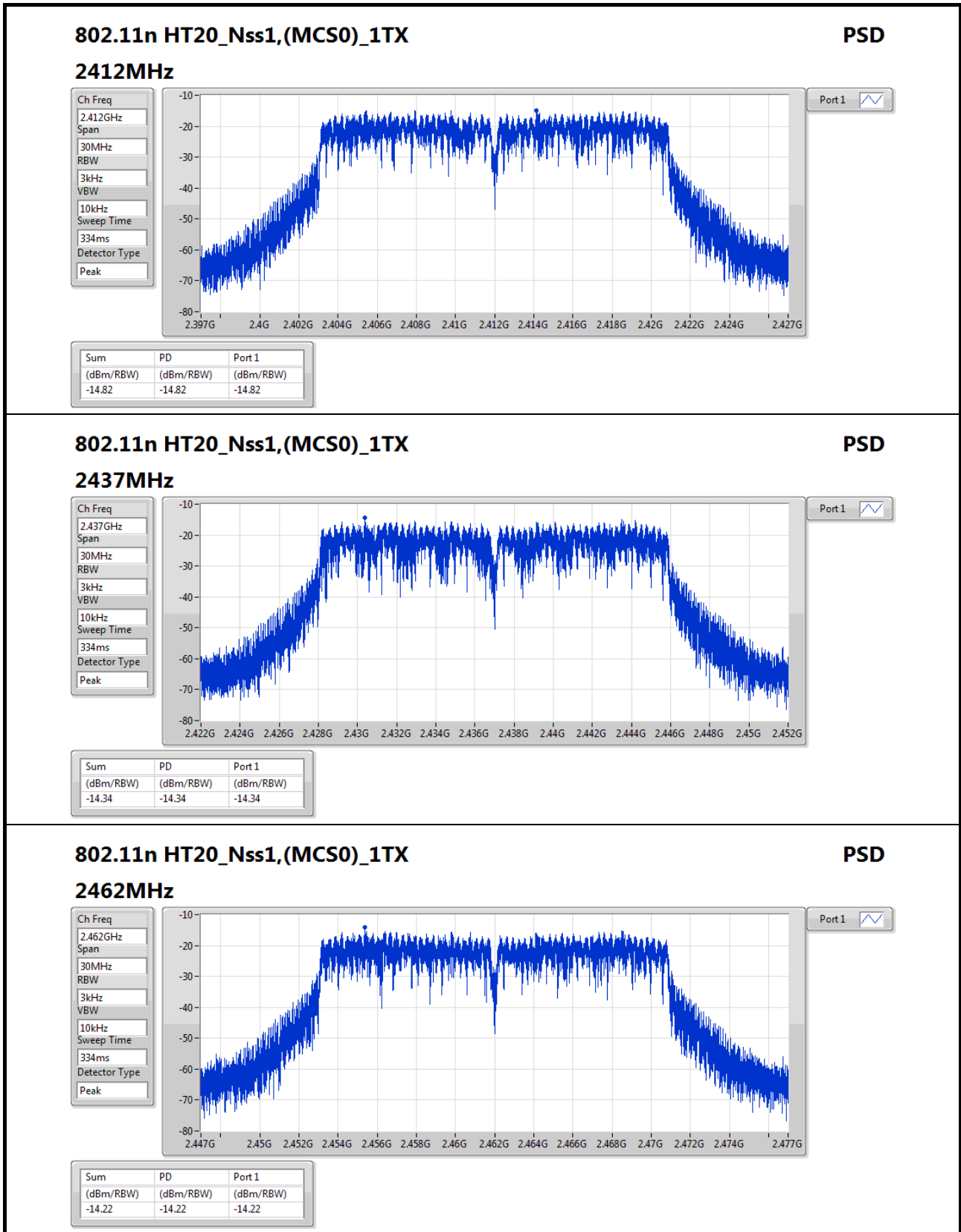
Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-17.04	-17.04	8.00
2437MHz	Pass	2.50	-17.24	-17.24	8.00
2462MHz	Pass	2.50	-17.44	-17.44	8.00
802.11g_(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-15.40	-15.40	8.00
2437MHz	Pass	2.50	-15.69	-15.69	8.00
2462MHz	Pass	2.50	-15.67	-15.67	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	2.50	-14.82	-14.82	8.00
2437MHz	Pass	2.50	-14.34	-14.34	8.00
2462MHz	Pass	2.50	-14.22	-14.22	8.00

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;






802.11n HT20_Nss1,(MCS0)_1TX
PSD

2462MHz

Ch Freq
2.462GHz

Span
30MHz

RBW
3kHz

VBW
10kHz

Sweep Time
334ms

Detector Type
Peak



Port 1

Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-14.22	-14.22	-14.22

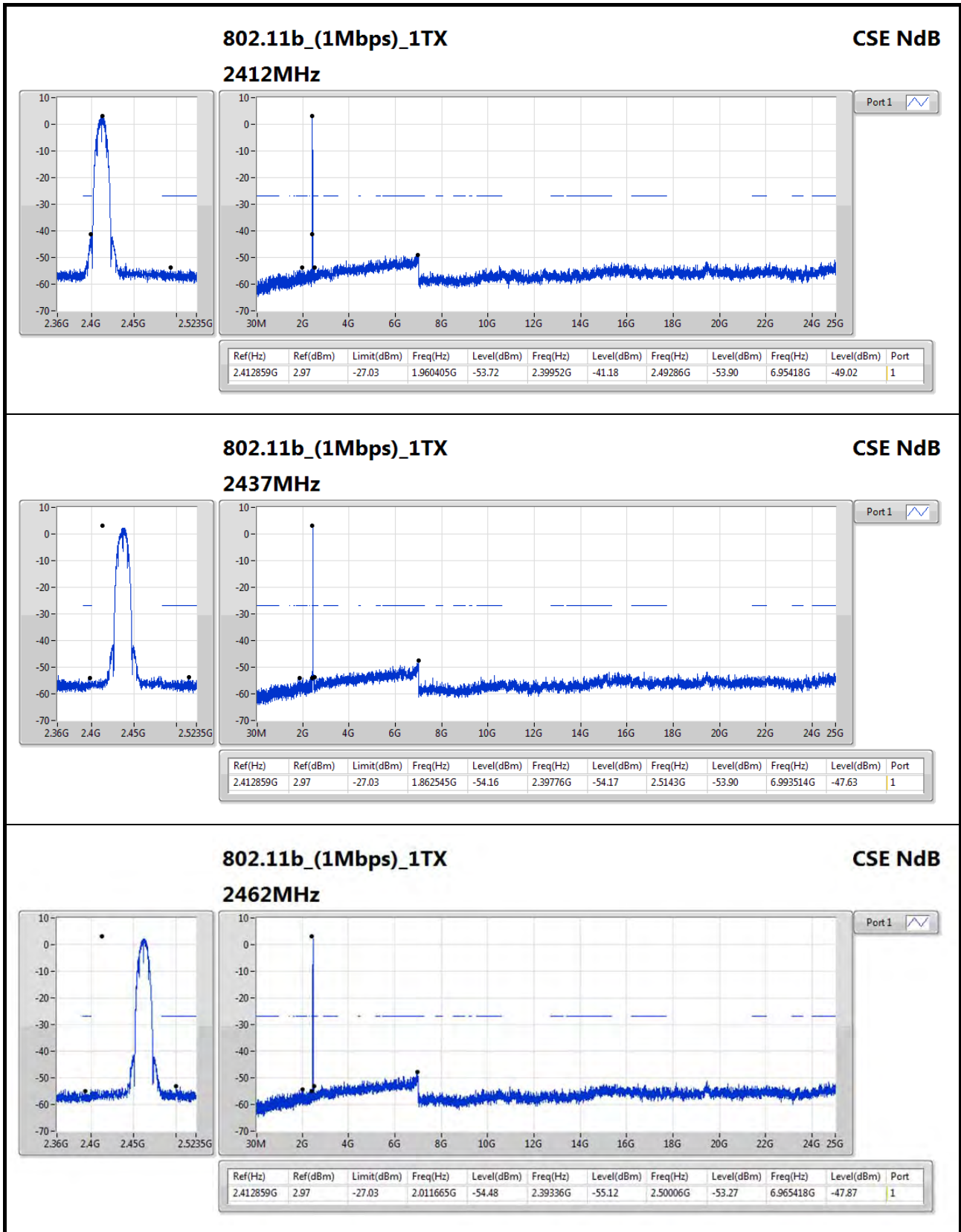


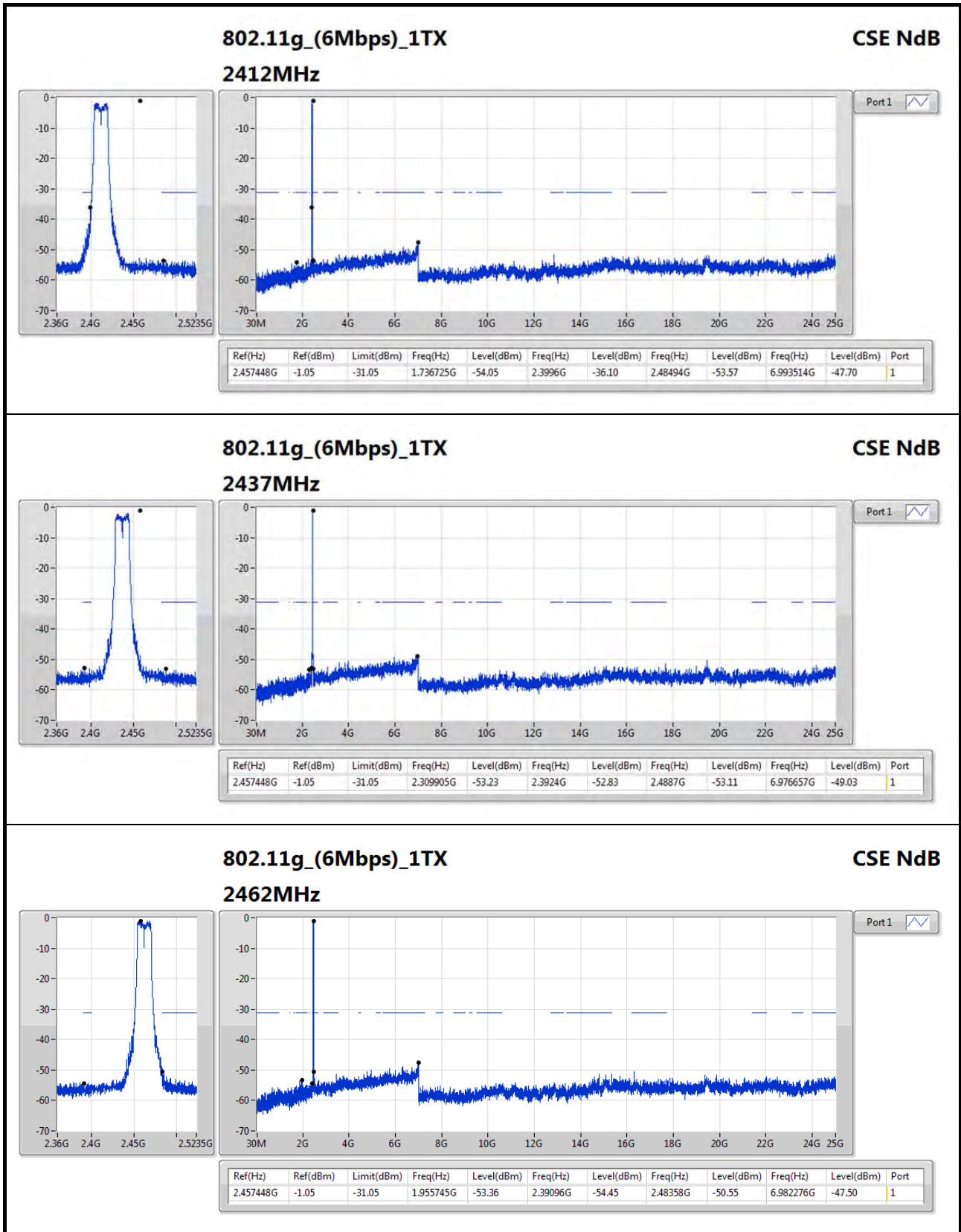
Summary

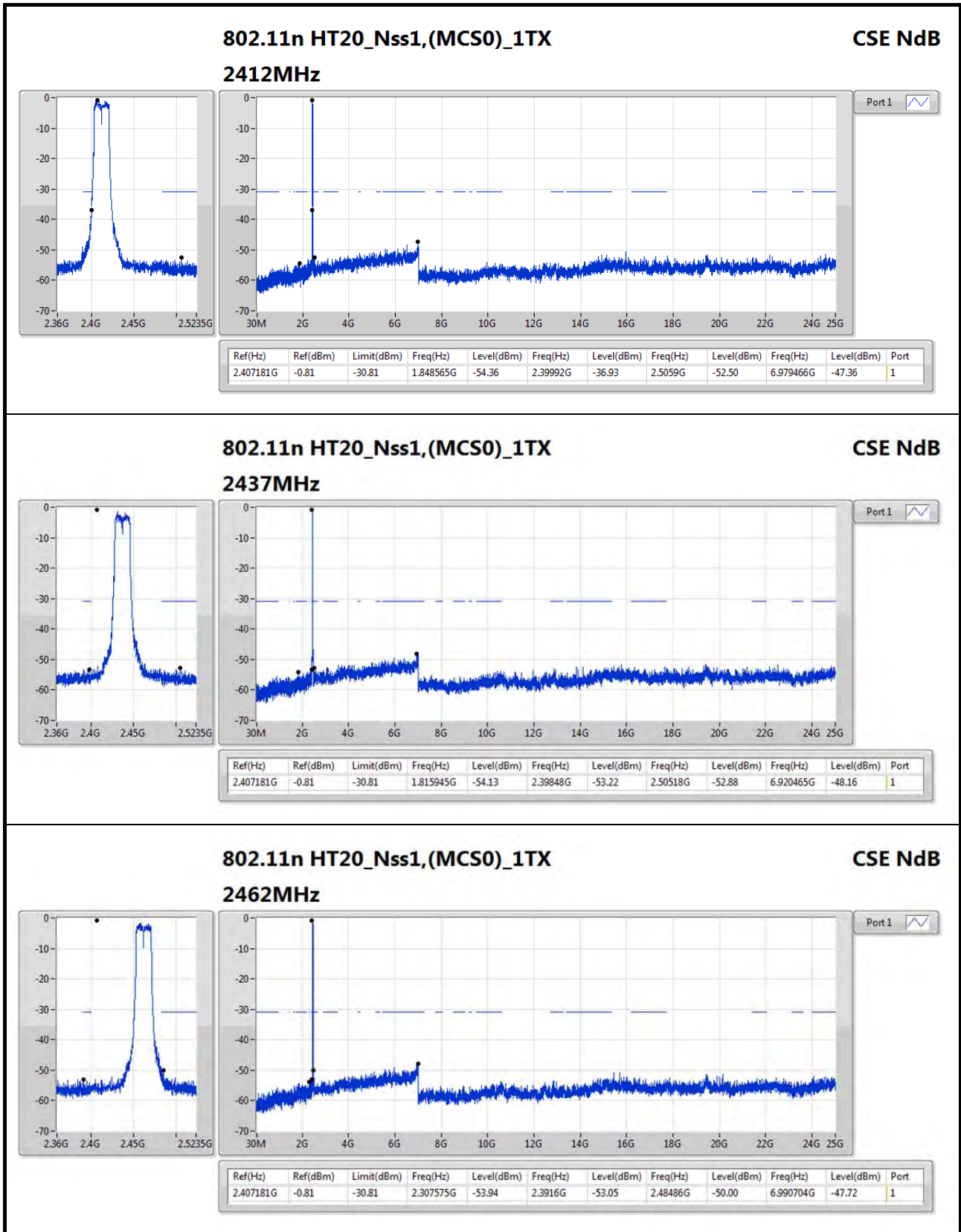
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11g_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	2.457448G	-1.05	-31.05	1.736725G	-54.05	2.3996G	-36.10	2.48494G	-53.57	6.993514G	-47.70	1

Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.412859G	2.97	-27.03	1.960405G	-53.72	2.39952G	-41.18	2.49286G	-53.90	6.95418G	-49.02	1
2437MHz	Pass	2.412859G	2.97	-27.03	1.862545G	-54.16	2.39776G	-54.17	2.5143G	-53.90	6.993514G	-47.63	1
2462MHz	Pass	2.412859G	2.97	-27.03	2.011665G	-54.48	2.39336G	-55.12	2.50006G	-53.27	6.965418G	-47.87	1
802.11g_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.457448G	-1.05	-31.05	1.736725G	-54.05	2.3996G	-36.10	2.48494G	-53.57	6.993514G	-47.70	1
2437MHz	Pass	2.457448G	-1.05	-31.05	2.309905G	-53.23	2.3924G	-52.83	2.4887G	-53.11	6.976657G	-49.03	1
2462MHz	Pass	2.457448G	-1.05	-31.05	1.955745G	-53.36	2.39096G	-54.45	2.48358G	-50.55	6.982276G	-47.50	1
802.11n HT20_Nss1_(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.407181G	-0.81	-30.81	1.848565G	-54.36	2.39992G	-36.93	2.5059G	-52.50	6.979466G	-47.36	1
2437MHz	Pass	2.407181G	-0.81	-30.81	1.815945G	-54.13	2.39848G	-53.22	2.50518G	-52.88	6.920465G	-48.16	1
2462MHz	Pass	2.407181G	-0.81	-30.81	2.307575G	-53.94	2.3916G	-53.05	2.48486G	-50.00	6.990704G	-47.72	1









Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	PK	778.84M	41.83	46.00	-4.17	-8.10	3	H	360	1.00	-

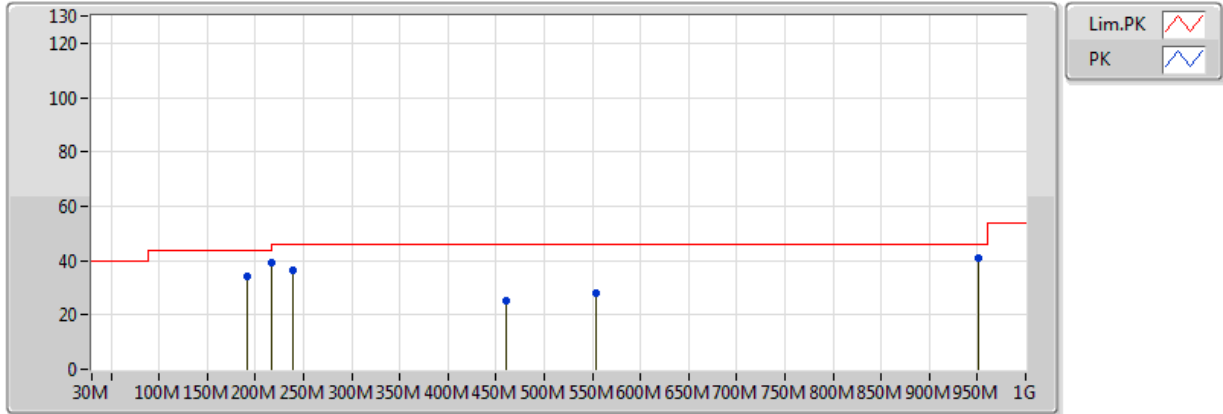


Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	158.04M	36.05	43.50	-7.45	-19.25	3	H	360	1.00	-
2437MHz	Pass	PK	293.84M	33.58	46.00	-12.42	-16.62	3	H	360	1.00	-
2437MHz	Pass	PK	344.28M	35.09	46.00	-10.91	-15.48	3	H	360	1.00	-
2437MHz	Pass	PK	778.84M	41.83	46.00	-4.17	-8.10	3	H	360	1.00	-
2437MHz	Pass	PK	953.44M	38.37	46.00	-7.63	-5.14	3	H	360	1.00	-
2437MHz	Pass	QP	187.14M	33.30	43.50	-10.20	-20.92	3	H	358	1.76	-
2437MHz	Pass	PK	191.02M	34.34	43.50	-9.16	-20.93	3	V	0	1.00	-
2437MHz	Pass	PK	216.24M	39.08	46.00	-6.92	-20.51	3	V	0	1.00	-
2437MHz	Pass	PK	239.52M	36.44	46.00	-9.56	-18.56	3	V	0	1.00	-
2437MHz	Pass	PK	460.68M	25.20	46.00	-20.80	-12.49	3	V	0	1.00	-
2437MHz	Pass	PK	553.8M	28.03	46.00	-17.97	-10.41	3	V	0	1.00	-
2437MHz	Pass	PK	951.5M	40.85	46.00	-5.15	-5.21	3	V	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_USB

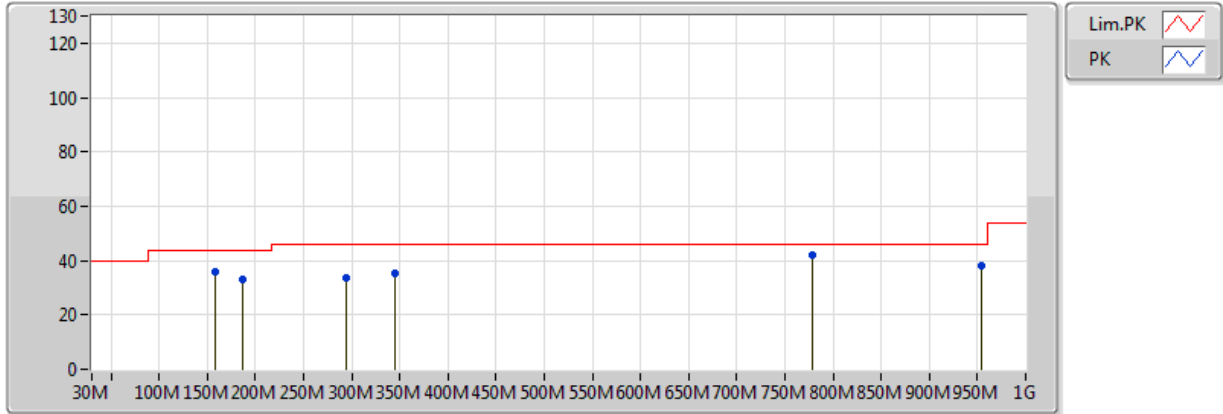


EUT : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	191.02M	34.34	43.50	-9.16	-20.93	3	V	0	1.00	-
PK	216.24M	39.08	46.00	-6.92	-20.51	3	V	0	1.00	-
PK	239.52M	36.44	46.00	-9.56	-18.56	3	V	0	1.00	-
PK	460.68M	25.20	46.00	-20.80	-12.49	3	V	0	1.00	-
PK	553.8M	28.03	46.00	-17.97	-10.41	3	V	0	1.00	-
PK	951.5M	40.85	46.00	-5.15	-5.21	3	V	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_USB



EUT : Y

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
PK	158.04M	36.05	43.50	-7.45	-19.25	3	H	360	1.00	-
PK	293.84M	33.58	46.00	-12.42	-16.62	3	H	360	1.00	-
PK	344.28M	35.09	46.00	-10.91	-15.48	3	H	360	1.00	-
PK	778.84M	41.83	46.00	-4.17	-8.10	3	H	360	1.00	-
PK	953.44M	38.37	46.00	-7.63	-5.14	3	H	360	1.00	-
QP	187.14M	33.30	43.50	-10.20	-20.92	3	H	358	1.76	-



Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11b_(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2.4-2.4835GHz	Pass	AV	2.4848G	53.83	54.00	-0.17	32.14	3	H	0	2.75	-



Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
802.11b_(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3896G	44.29	54.00	-9.71	31.91	3	H	358	2.76	-
2412MHz	Pass	AV	2.4564G	97.46	Inf	-Inf	32.08	3	H	358	2.76	-
2412MHz	Pass	AV	2.4836G	53.00	54.00	-1.00	32.14	3	H	358	2.76	-
2412MHz	Pass	PK	2.3668G	55.47	74.00	-18.53	31.85	3	H	358	2.76	-
2412MHz	Pass	PK	2.4672G	107.55	Inf	-Inf	32.10	3	H	358	2.76	-
2412MHz	Pass	PK	2.4836G	73.53	74.00	-0.47	32.14	3	H	358	2.76	-
2412MHz	Pass	AV	2.3876G	44.24	54.00	-9.76	31.91	3	V	115	2.40	-
2412MHz	Pass	AV	2.4568G	95.43	Inf	-Inf	32.08	3	V	115	2.40	-
2412MHz	Pass	AV	2.4836G	52.44	54.00	-1.56	32.14	3	V	115	2.40	-
2412MHz	Pass	PK	2.3676G	55.20	74.00	-18.80	31.86	3	V	115	2.40	-
2412MHz	Pass	PK	2.4672G	104.76	Inf	-Inf	32.10	3	V	115	2.40	-
2412MHz	Pass	PK	2.4836G	68.75	74.00	-5.25	32.14	3	V	115	2.40	-
2412MHz	Pass	AV	4.91914G	32.08	54.00	-21.92	4.91	3	H	133	1.05	-
2412MHz	Pass	PK	4.92012G	44.99	74.00	-29.01	4.91	3	H	133	1.05	-
2412MHz	Pass	AV	4.92614G	32.45	54.00	-21.55	4.93	3	V	32	1.89	-
2412MHz	Pass	PK	4.92546G	45.70	74.00	-28.30	4.93	3	V	32	1.89	-
2437MHz	Pass	AV	2.389G	47.42	54.00	-6.58	31.91	3	H	83	1.14	-
2437MHz	Pass	AV	2.4362G	105.41	Inf	-Inf	32.03	3	H	83	1.14	-
2437MHz	Pass	AV	2.485G	47.83	54.00	-6.17	32.14	3	H	83	1.14	-
2437MHz	Pass	PK	2.387G	57.42	74.00	-16.58	31.91	3	H	83	1.14	-
2437MHz	Pass	PK	2.4382G	109.50	Inf	-Inf	32.03	3	H	83	1.14	-
2437MHz	Pass	PK	2.4854G	57.66	74.00	-16.34	32.14	3	H	83	1.14	-
2437MHz	Pass	AV	2.389G	46.63	54.00	-7.37	31.91	3	V	44	2.81	-
2437MHz	Pass	AV	2.4362G	103.12	Inf	-Inf	32.03	3	V	44	2.81	-
2437MHz	Pass	AV	2.4846G	46.66	54.00	-7.34	32.14	3	V	44	2.81	-
2437MHz	Pass	PK	2.389998G	56.62	74.00	-17.38	31.91	3	V	44	2.81	-
2437MHz	Pass	PK	2.4362G	107.05	Inf	-Inf	32.03	3	V	44	2.81	-
2437MHz	Pass	PK	2.4858G	56.41	74.00	-17.59	32.15	3	V	44	2.81	-
2437MHz	Pass	AV	4.87398G	53.71	54.00	-0.29	4.82	3	H	223	2.02	-
2437MHz	Pass	PK	4.87394G	56.20	74.00	-17.80	4.82	3	H	223	2.02	-
2437MHz	Pass	AV	4.874G	49.56	54.00	-4.44	4.82	3	V	256	2.68	-
2437MHz	Pass	PK	4.87398G	53.17	74.00	-20.83	4.82	3	V	256	2.68	-
2462MHz	Pass	AV	2.3896G	44.06	54.00	-9.94	31.91	3	H	0	2.75	-
2462MHz	Pass	AV	2.4604G	105.91	Inf	-Inf	32.08	3	H	0	2.75	-
2462MHz	Pass	AV	2.4848G	53.83	54.00	-0.17	32.14	3	H	0	2.75	-
2462MHz	Pass	PK	2.3688G	55.31	74.00	-18.69	31.86	3	H	0	2.75	-
2462MHz	Pass	PK	2.4612G	109.97	Inf	-Inf	32.09	3	H	0	2.75	-
2462MHz	Pass	PK	2.4836G	61.03	74.00	-12.97	32.14	3	H	0	2.75	-
2462MHz	Pass	AV	2.3896G	44.21	54.00	-9.79	31.91	3	V	119	2.78	-
2462MHz	Pass	AV	2.4612G	104.54	Inf	-Inf	32.09	3	V	119	2.78	-
2462MHz	Pass	AV	2.4848G	53.28	54.00	-0.72	32.14	3	V	119	2.78	-
2462MHz	Pass	PK	2.3672G	55.83	74.00	-18.17	31.85	3	V	119	2.78	-
2462MHz	Pass	PK	2.4632G	108.57	Inf	-Inf	32.09	3	V	119	2.78	-
2462MHz	Pass	PK	2.4836G	60.71	74.00	-13.29	32.14	3	V	119	2.78	-
2462MHz	Pass	AV	4.924G	50.79	54.00	-3.21	4.92	3	H	222	2.07	-
2462MHz	Pass	PK	4.92396G	53.90	74.00	-20.10	4.92	3	H	222	2.07	-
2462MHz	Pass	AV	4.924G	44.37	54.00	-9.63	4.92	3	V	90	2.67	-



RSE TX above 1GHz Result

Appendix F

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	4.924G	50.57	74.00	-23.43	4.92	3	V	90	2.67	-
802.11g_(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.53	54.00	-0.47	31.91	3	H	358	2.54	-
2412MHz	Pass	AV	2.4184G	99.39	Inf	-Inf	31.98	3	H	358	2.54	-
2412MHz	Pass	AV	2.4996G	44.71	54.00	-9.29	32.18	3	H	358	2.54	-
2412MHz	Pass	PK	2.39G	69.69	74.00	-4.31	31.91	3	H	358	2.54	-
2412MHz	Pass	PK	2.4064G	108.52	Inf	-Inf	31.96	3	H	358	2.54	-
2412MHz	Pass	PK	2.498G	56.27	74.00	-17.73	32.18	3	H	358	2.54	-
2412MHz	Pass	AV	2.39G	51.69	54.00	-2.31	31.91	3	V	65	2.96	-
2412MHz	Pass	AV	2.406G	95.87	Inf	-Inf	31.95	3	V	65	2.96	-
2412MHz	Pass	AV	2.496G	44.71	54.00	-9.29	32.17	3	V	65	2.96	-
2412MHz	Pass	PK	2.39G	68.71	74.00	-5.29	31.91	3	V	65	2.96	-
2412MHz	Pass	PK	2.4064G	105.58	Inf	-Inf	31.96	3	V	65	2.96	-
2412MHz	Pass	PK	2.5G	55.97	74.00	-18.03	32.18	3	V	65	2.96	-
2412MHz	Pass	AV	4.81966G	32.16	54.00	-21.84	4.71	3	H	210	1.50	-
2412MHz	Pass	PK	4.82156G	45.89	74.00	-28.11	4.71	3	H	210	1.50	-
2412MHz	Pass	AV	4.8231G	32.15	54.00	-21.85	4.72	3	V	273	1.80	-
2412MHz	Pass	PK	4.82098G	45.30	74.00	-28.70	4.71	3	V	273	1.80	-
2437MHz	Pass	AV	2.389998G	47.95	54.00	-6.05	31.91	3	H	354	2.75	-
2437MHz	Pass	AV	2.4436G	103.72	Inf	-Inf	32.04	3	H	354	2.75	-
2437MHz	Pass	AV	2.483502G	51.10	54.00	-2.90	32.14	3	H	354	2.75	-
2437MHz	Pass	PK	2.389G	64.65	74.00	-9.35	31.91	3	H	354	2.75	-
2437MHz	Pass	PK	2.4448G	113.05	Inf	-Inf	32.05	3	H	354	2.75	-
2437MHz	Pass	PK	2.4874G	64.05	74.00	-9.95	32.15	3	H	354	2.75	-
2437MHz	Pass	AV	2.3896G	47.75	54.00	-6.25	31.91	3	V	62	2.60	-
2437MHz	Pass	AV	2.4436G	99.99	Inf	-Inf	32.04	3	V	62	2.60	-
2437MHz	Pass	AV	2.483502G	48.59	54.00	-5.41	32.14	3	V	62	2.60	-
2437MHz	Pass	PK	2.3884G	63.30	74.00	-10.70	31.91	3	V	62	2.60	-
2437MHz	Pass	PK	2.431G	109.29	Inf	-Inf	32.01	3	V	62	2.60	-
2437MHz	Pass	PK	2.4838G	61.19	74.00	-12.81	32.14	3	V	62	2.60	-
2437MHz	Pass	AV	4.87346G	34.82	54.00	-19.18	4.82	3	H	201	1.50	-
2437MHz	Pass	PK	4.87422G	47.94	74.00	-26.06	4.82	3	H	201	1.50	-
2437MHz	Pass	AV	4.87368G	34.50	54.00	-19.50	4.82	3	V	167	1.37	-
2437MHz	Pass	PK	4.87666G	47.53	74.00	-26.47	4.82	3	V	167	1.37	-
2462MHz	Pass	AV	2.3888G	44.46	54.00	-9.54	31.91	3	H	354	2.68	-
2462MHz	Pass	AV	2.4684G	97.93	Inf	-Inf	32.10	3	H	354	2.68	-
2462MHz	Pass	AV	2.4836G	53.45	54.00	-0.55	32.14	3	H	354	2.68	-
2462MHz	Pass	PK	2.3892G	55.34	74.00	-18.66	31.91	3	H	354	2.68	-
2462MHz	Pass	PK	2.468G	107.12	Inf	-Inf	32.10	3	H	354	2.68	-
2462MHz	Pass	PK	2.4836G	68.56	74.00	-5.44	32.14	3	H	354	2.68	-
2462MHz	Pass	AV	2.3868G	44.45	54.00	-9.55	31.91	3	V	114	2.48	-
2462MHz	Pass	AV	2.4684G	95.95	Inf	-Inf	32.10	3	V	114	2.48	-
2462MHz	Pass	AV	2.4836G	51.22	54.00	-2.78	32.14	3	V	114	2.48	-
2462MHz	Pass	PK	2.38G	55.88	74.00	-18.12	31.89	3	V	114	2.48	-
2462MHz	Pass	PK	2.4544G	105.01	Inf	-Inf	32.07	3	V	114	2.48	-
2462MHz	Pass	PK	2.4836G	66.48	74.00	-7.52	32.14	3	V	114	2.48	-
2462MHz	Pass	AV	4.92806G	32.03	54.00	-21.97	4.93	3	H	7	2.29	-
2462MHz	Pass	PK	4.92622G	45.24	74.00	-28.76	4.93	3	H	7	2.29	-
2462MHz	Pass	AV	4.92894G	31.92	54.00	-22.08	4.93	3	V	1	1.18	-



RSE TX above 1GHz Result

Appendix F

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	4.9208G	45.15	74.00	-28.85	4.92	3	V	1	1.18	-
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	53.54	54.00	-0.46	31.91	3	H	356	2.57	-
2412MHz	Pass	AV	2.4172G	97.63	Inf	-Inf	31.98	3	H	356	2.57	-
2412MHz	Pass	AV	2.488G	44.60	54.00	-9.40	32.15	3	H	356	2.57	-
2412MHz	Pass	PK	2.39G	72.06	74.00	-1.94	31.91	3	H	356	2.57	-
2412MHz	Pass	PK	2.4172G	108.12	Inf	-Inf	31.98	3	H	356	2.57	-
2412MHz	Pass	PK	2.492G	55.58	74.00	-18.42	32.16	3	H	356	2.57	-
2412MHz	Pass	AV	2.39G	51.85	54.00	-2.15	31.91	3	V	115	2.56	-
2412MHz	Pass	AV	2.4172G	96.48	Inf	-Inf	31.98	3	V	115	2.56	-
2412MHz	Pass	AV	2.4972G	44.66	54.00	-9.34	32.17	3	V	115	2.56	-
2412MHz	Pass	PK	2.39G	70.49	74.00	-3.51	31.91	3	V	115	2.56	-
2412MHz	Pass	PK	2.4176G	105.89	Inf	-Inf	31.98	3	V	115	2.56	-
2412MHz	Pass	PK	2.4948G	55.67	74.00	-18.33	32.17	3	V	115	2.56	-
2412MHz	Pass	AV	4.82236G	32.11	54.00	-21.89	4.71	3	H	188	1.01	-
2412MHz	Pass	PK	4.82352G	45.64	74.00	-28.36	4.72	3	H	188	1.01	-
2412MHz	Pass	AV	4.82166G	31.95	54.00	-22.05	4.71	3	V	359	1.59	-
2412MHz	Pass	PK	4.82848G	45.58	74.00	-28.42	4.73	3	V	359	1.59	-
2437MHz	Pass	AV	2.389998G	48.68	54.00	-5.32	31.91	3	H	1	2.77	-
2437MHz	Pass	AV	2.4424G	102.68	Inf	-Inf	32.04	3	H	1	2.77	-
2437MHz	Pass	AV	2.483502G	50.88	54.00	-3.12	32.14	3	H	1	2.77	-
2437MHz	Pass	PK	2.3896G	65.32	74.00	-8.68	31.91	3	H	1	2.77	-
2437MHz	Pass	PK	2.4304G	112.17	Inf	-Inf	32.01	3	H	1	2.77	-
2437MHz	Pass	PK	2.4874G	65.20	74.00	-8.80	32.15	3	H	1	2.77	-
2437MHz	Pass	AV	2.389998G	48.51	54.00	-5.49	31.91	3	V	78	2.59	-
2437MHz	Pass	AV	2.4316G	99.45	Inf	-Inf	32.02	3	V	78	2.59	-
2437MHz	Pass	AV	2.483502G	47.82	54.00	-6.18	32.14	3	V	78	2.59	-
2437MHz	Pass	PK	2.389998G	65.84	74.00	-8.16	31.91	3	V	78	2.59	-
2437MHz	Pass	PK	2.4316G	109.35	Inf	-Inf	32.02	3	V	78	2.59	-
2437MHz	Pass	PK	2.483502G	62.49	74.00	-11.51	32.14	3	V	78	2.59	-
2437MHz	Pass	AV	4.87398G	38.72	54.00	-15.28	4.82	3	H	95	2.31	-
2437MHz	Pass	PK	4.87438G	51.85	74.00	-22.15	4.82	3	H	95	2.31	-
2437MHz	Pass	AV	4.87418G	32.48	54.00	-21.52	4.82	3	V	84	2.18	-
2437MHz	Pass	PK	4.87532G	45.84	74.00	-28.16	4.82	3	V	84	2.18	-
2462MHz	Pass	AV	2.3896G	44.29	54.00	-9.71	31.91	3	H	358	2.76	-
2462MHz	Pass	AV	2.4564G	97.46	Inf	-Inf	32.08	3	H	358	2.76	-
2462MHz	Pass	AV	2.4836G	53.00	54.00	-1.00	32.14	3	H	358	2.76	-
2462MHz	Pass	PK	2.3668G	55.47	74.00	-18.53	31.85	3	H	358	2.76	-
2462MHz	Pass	PK	2.4672G	107.55	Inf	-Inf	32.10	3	H	358	2.76	-
2462MHz	Pass	PK	2.4836G	73.53	74.00	-0.47	32.14	3	H	358	2.76	-
2462MHz	Pass	AV	2.3876G	44.24	54.00	-9.76	31.91	3	V	115	2.40	-
2462MHz	Pass	AV	2.4568G	95.43	Inf	-Inf	32.08	3	V	115	2.40	-
2462MHz	Pass	AV	2.4836G	52.44	54.00	-1.56	32.14	3	V	115	2.40	-
2462MHz	Pass	PK	2.3676G	55.20	74.00	-18.80	31.86	3	V	115	2.40	-
2462MHz	Pass	PK	2.4672G	104.76	Inf	-Inf	32.10	3	V	115	2.40	-
2462MHz	Pass	PK	2.4836G	68.75	74.00	-5.25	32.14	3	V	115	2.40	-
2462MHz	Pass	AV	4.91914G	32.08	54.00	-21.92	4.91	3	H	133	1.05	-
2462MHz	Pass	PK	4.92012G	44.99	74.00	-29.01	4.91	3	H	133	1.05	-
2462MHz	Pass	AV	4.92614G	32.45	54.00	-21.55	4.93	3	V	32	1.89	-



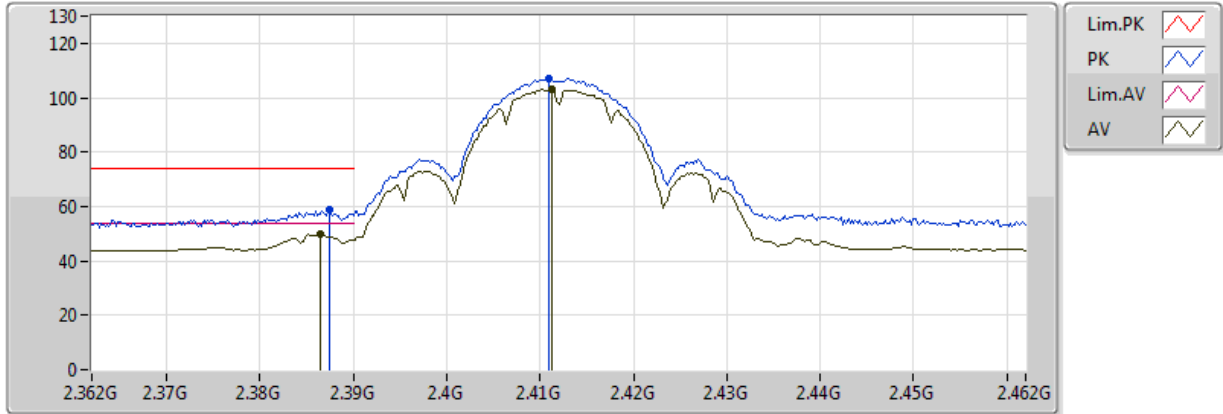
RSE TX above 1GHz Result

Appendix F

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Pol. (H/V)	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	4.92546G	45.70	74.00	-28.30	4.93	3	V	32	1.89	-

802.11b_(1Mbps)_1TX

2412MHz_TX

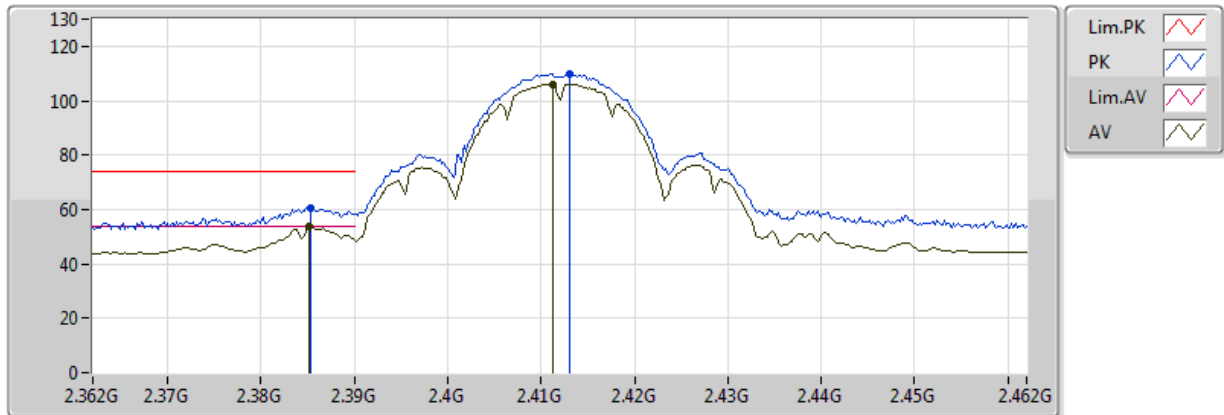


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3864G	49.62	54.00	-4.38	31.90	3	V	66	2.88	-
AV	2.4112G	103.02	Inf	-Inf	31.97	3	V	66	2.88	-
PK	2.3874G	58.74	74.00	-15.26	31.91	3	V	66	2.88	-
PK	2.411G	107.18	Inf	-Inf	31.97	3	V	66	2.88	-

802.11b_(1Mbps)_1TX

2412MHz_TX

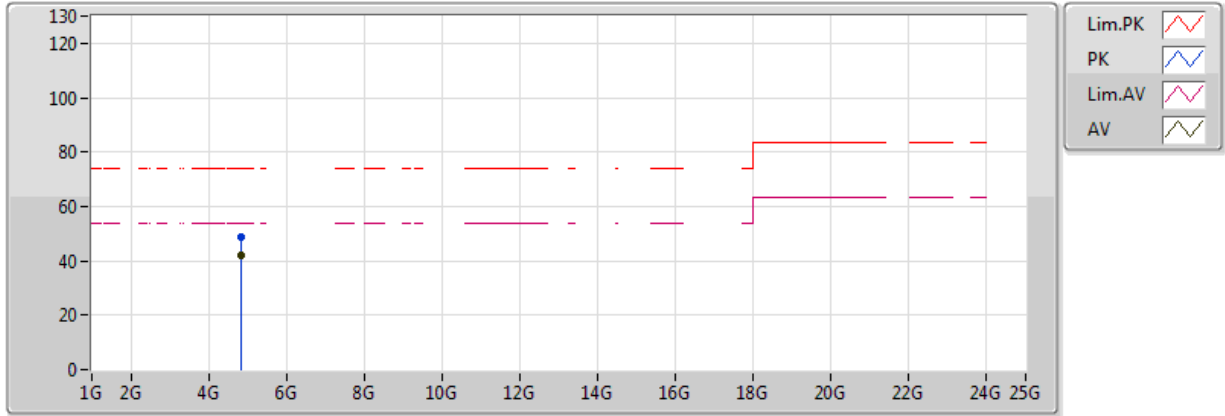


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3852G	53.72	54.00	-0.28	31.90	3	H	355	2.54	-
AV	2.4112G	105.96	Inf	-Inf	31.97	3	H	355	2.54	-
PK	2.3854G	60.71	74.00	-13.29	31.90	3	H	355	2.54	-
PK	2.413G	109.97	Inf	-Inf	31.97	3	H	355	2.54	-

802.11b_(1Mbps)_1TX

2412MHz_TX

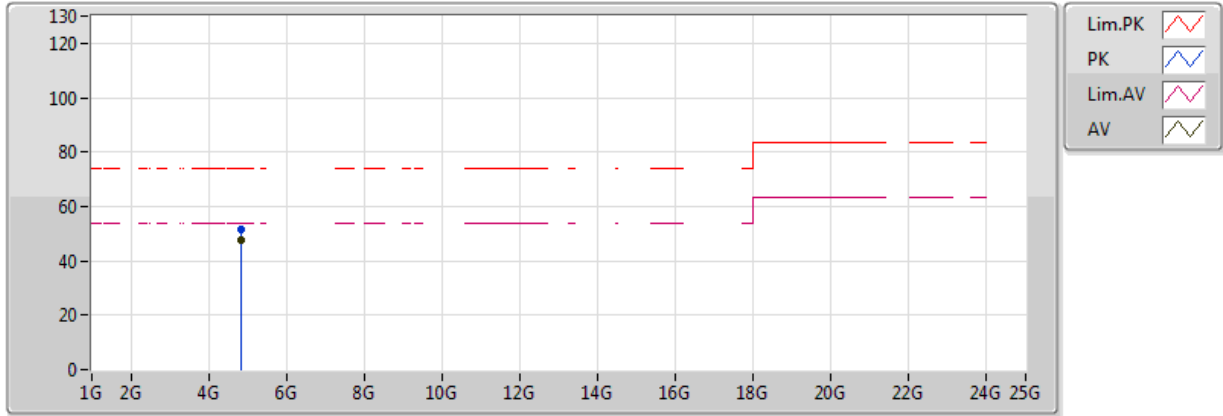


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82402G	42.05	54.00	-11.95	4.72	3	V	100	2.92	-
PK	4.82388G	48.49	74.00	-25.51	4.72	3	V	100	2.92	-

802.11b_(1Mbps)_1TX

2412MHz_TX

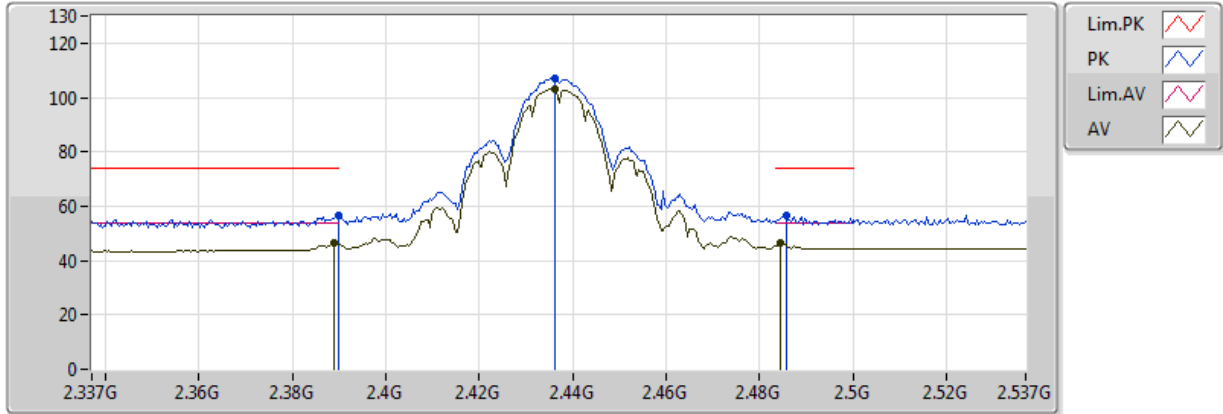


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.824G	47.39	54.00	-6.61	4.72	3	H	224	2.07	-
PK	4.8239G	51.68	74.00	-22.32	4.72	3	H	224	2.07	-

802.11b_(1Mbps)_1TX

2437MHz_TX

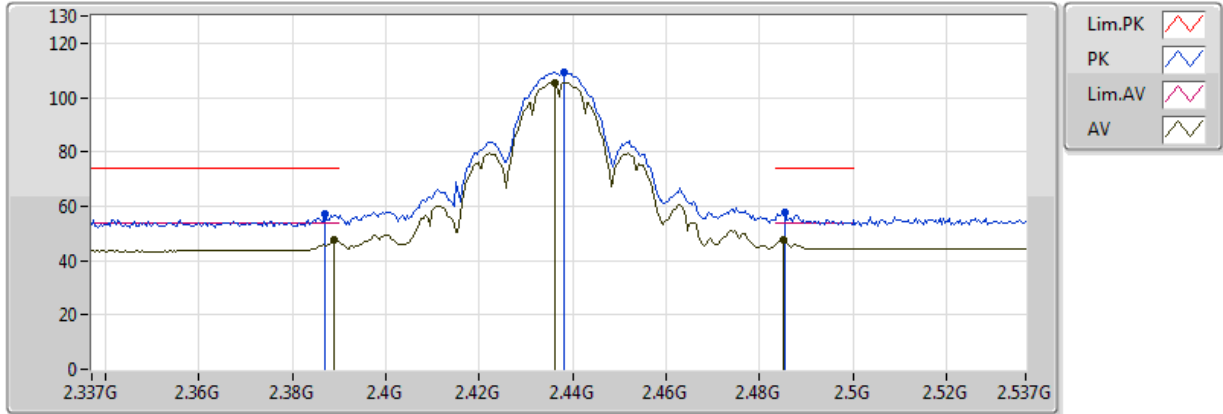


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	46.63	54.00	-7.37	31.91	3	V	44	2.81	-
AV	2.4362G	103.12	Inf	-Inf	32.03	3	V	44	2.81	-
AV	2.4846G	46.66	54.00	-7.34	32.14	3	V	44	2.81	-
PK	2.389998G	56.62	74.00	-17.38	31.91	3	V	44	2.81	-
PK	2.4362G	107.05	Inf	-Inf	32.03	3	V	44	2.81	-
PK	2.4858G	56.41	74.00	-17.59	32.15	3	V	44	2.81	-

802.11b_(1Mbps)_1TX

2437MHz_TX



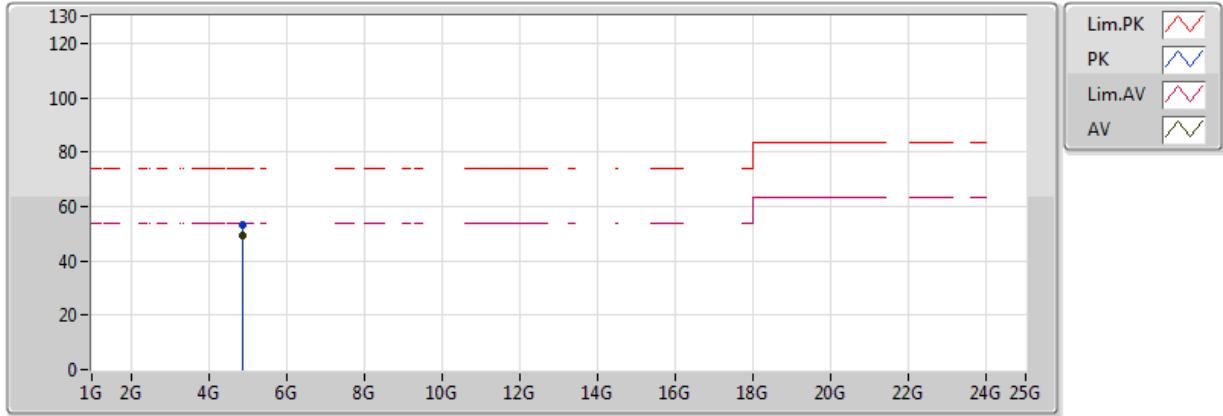
EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389G	47.42	54.00	-6.58	31.91	3	H	83	1.14	-
AV	2.4362G	105.41	Inf	-Inf	32.03	3	H	83	1.14	-
AV	2.485G	47.83	54.00	-6.17	32.14	3	H	83	1.14	-
PK	2.387G	57.42	74.00	-16.58	31.91	3	H	83	1.14	-
PK	2.4382G	109.50	Inf	-Inf	32.03	3	H	83	1.14	-
PK	2.4854G	57.66	74.00	-16.34	32.14	3	H	83	1.14	-



802.11b_(1Mbps)_1TX

2437MHz_TX



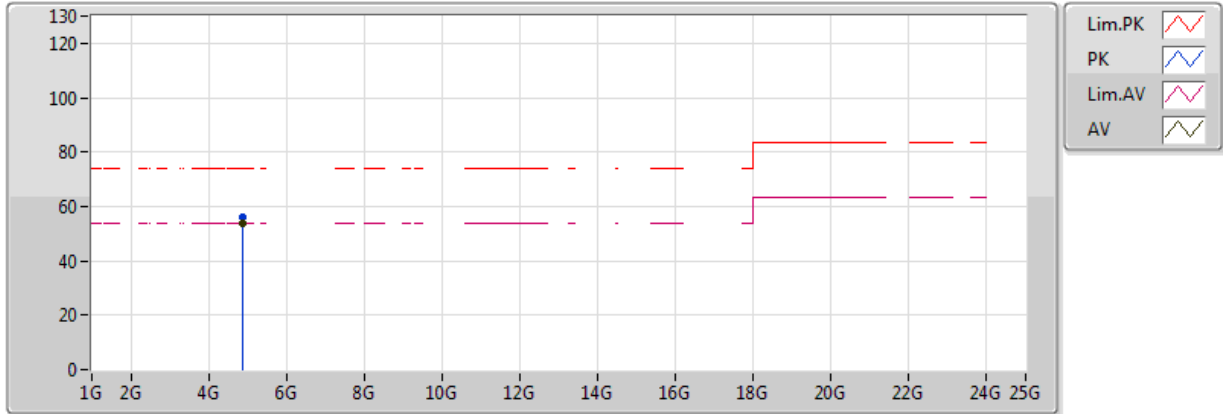
EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.874G	49.56	54.00	-4.44	4.82	3	V	256	2.68	-
PK	4.87398G	53.17	74.00	-20.83	4.82	3	V	256	2.68	-



802.11b_(1Mbps)_1TX

2437MHz_TX

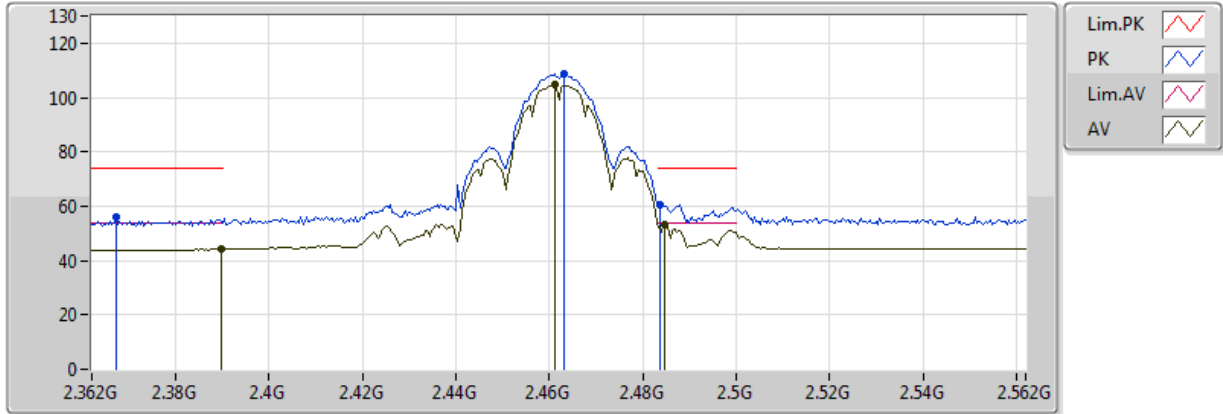


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87398G	53.71	54.00	-0.29	4.82	3	H	223	2.02	-
PK	4.87394G	56.20	74.00	-17.80	4.82	3	H	223	2.02	-

802.11b_(1Mbps)_1TX

2462MHz_TX

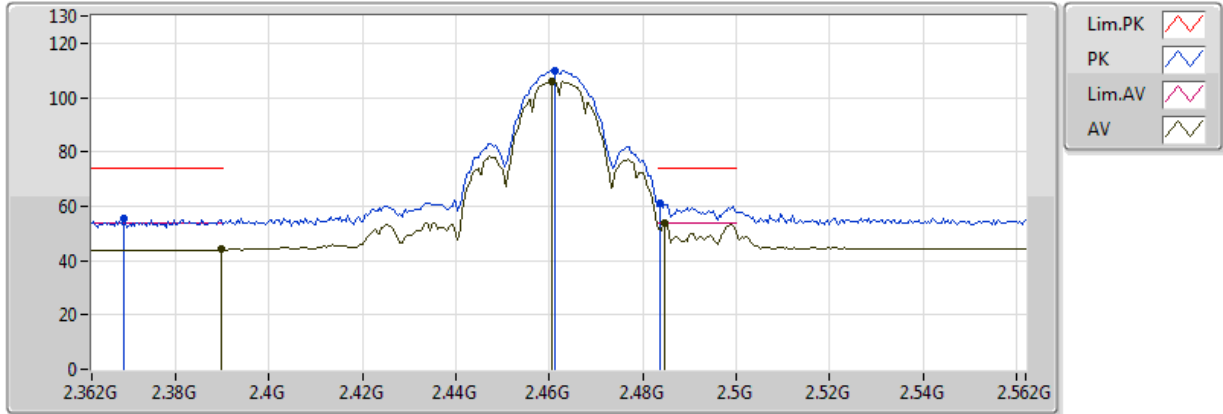


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	44.21	54.00	-9.79	31.91	3	V	119	2.78	-
AV	2.4612G	104.54	Inf	-Inf	32.09	3	V	119	2.78	-
AV	2.4848G	53.28	54.00	-0.72	32.14	3	V	119	2.78	-
PK	2.3672G	55.83	74.00	-18.17	31.85	3	V	119	2.78	-
PK	2.4632G	108.57	Inf	-Inf	32.09	3	V	119	2.78	-
PK	2.4836G	60.71	74.00	-13.29	32.14	3	V	119	2.78	-

802.11b_(1Mbps)_1TX

2462MHz_TX

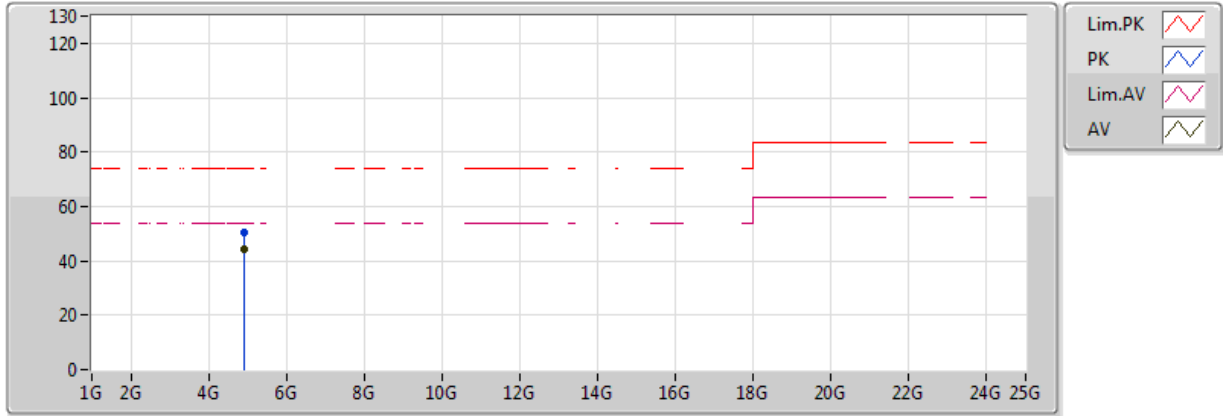


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	44.06	54.00	-9.94	31.91	3	H	0	2.75	-
AV	2.4604G	105.91	Inf	-Inf	32.08	3	H	0	2.75	-
AV	2.4848G	53.83	54.00	-0.17	32.14	3	H	0	2.75	-
PK	2.3688G	55.31	74.00	-18.69	31.86	3	H	0	2.75	-
PK	2.4612G	109.97	Inf	-Inf	32.09	3	H	0	2.75	-
PK	2.4836G	61.03	74.00	-12.97	32.14	3	H	0	2.75	-

802.11b_(1Mbps)_1TX

2462MHz_TX

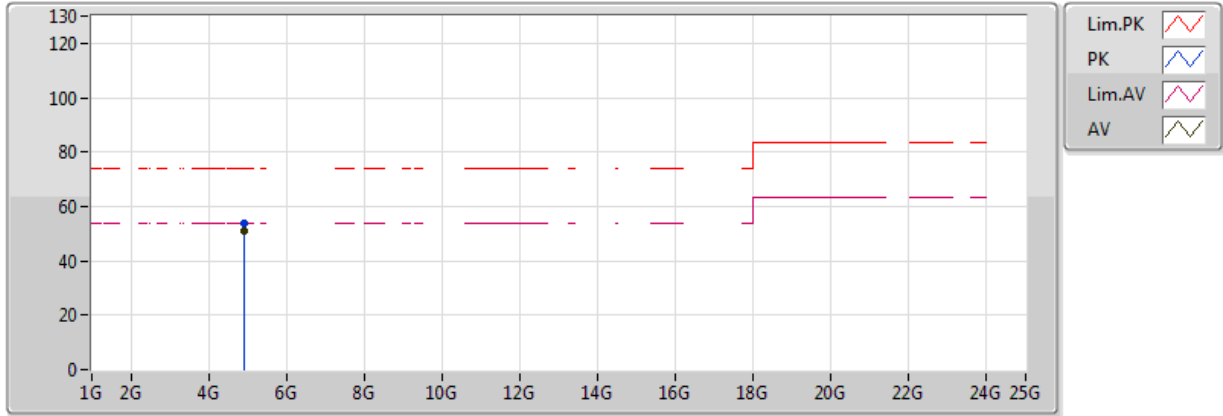


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	44.37	54.00	-9.63	4.92	3	V	90	2.67	-
PK	4.924G	50.57	74.00	-23.43	4.92	3	V	90	2.67	-

802.11b_(1Mbps)_1TX

2462MHz_TX

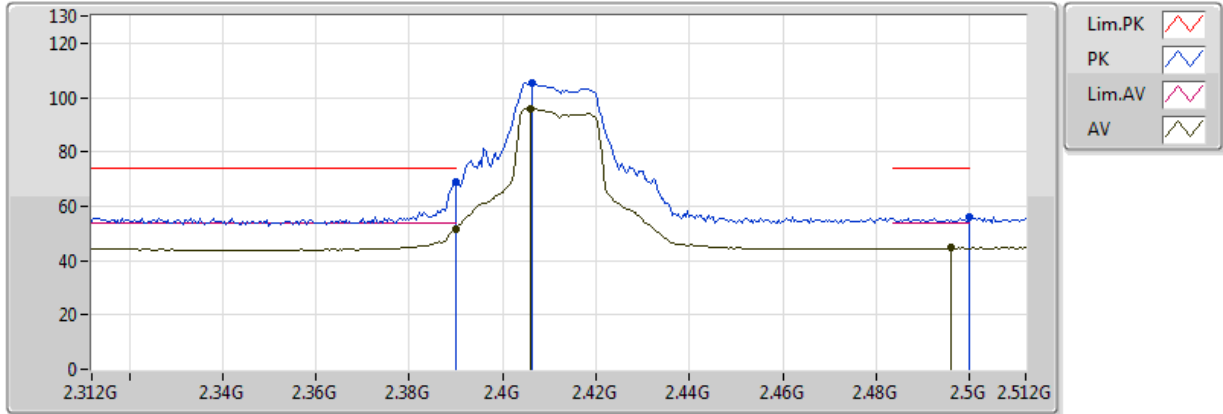


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.924G	50.79	54.00	-3.21	4.92	3	H	222	2.07	-
PK	4.92396G	53.90	74.00	-20.10	4.92	3	H	222	2.07	-

802.11g_(6Mbps)_1TX

2412MHz_TX

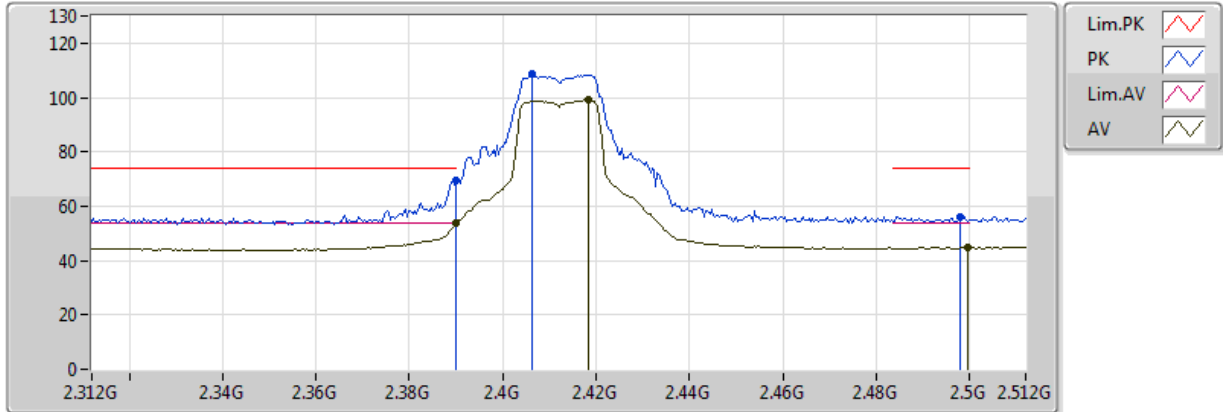


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	51.69	54.00	-2.31	31.91	3	V	65	2.96	-
AV	2.406G	95.87	Inf	-Inf	31.95	3	V	65	2.96	-
AV	2.496G	44.71	54.00	-9.29	32.17	3	V	65	2.96	-
PK	2.39G	68.71	74.00	-5.29	31.91	3	V	65	2.96	-
PK	2.4064G	105.58	Inf	-Inf	31.96	3	V	65	2.96	-
PK	2.5G	55.97	74.00	-18.03	32.18	3	V	65	2.96	-

802.11g_(6Mbps)_1TX

2412MHz_TX

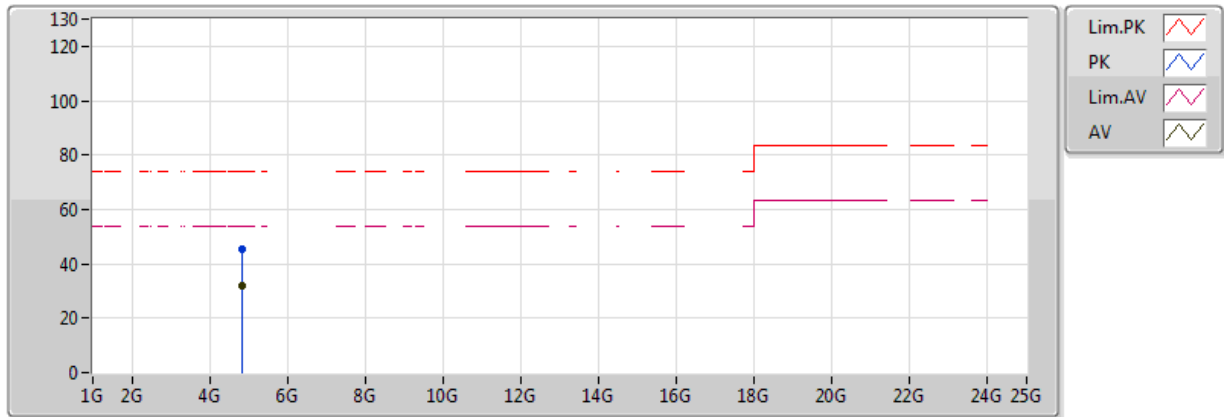


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.53	54.00	-0.47	31.91	3	H	358	2.54	-
AV	2.4184G	99.39	Inf	-Inf	31.98	3	H	358	2.54	-
AV	2.4996G	44.71	54.00	-9.29	32.18	3	H	358	2.54	-
PK	2.39G	69.69	74.00	-4.31	31.91	3	H	358	2.54	-
PK	2.4064G	108.52	Inf	-Inf	31.96	3	H	358	2.54	-
PK	2.498G	56.27	74.00	-17.73	32.18	3	H	358	2.54	-

802.11g_(6Mbps)_1TX

2412MHz_TX

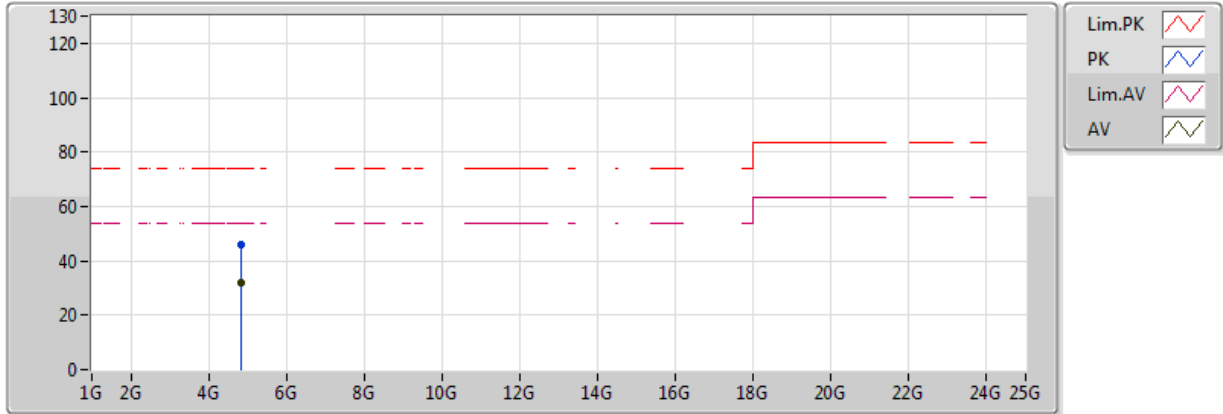


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.8231G	32.15	54.00	-21.85	4.72	3	V	273	1.80	-
PK	4.82098G	45.30	74.00	-28.70	4.71	3	V	273	1.80	-

802.11g_(6Mbps)_1TX

2412MHz_TX

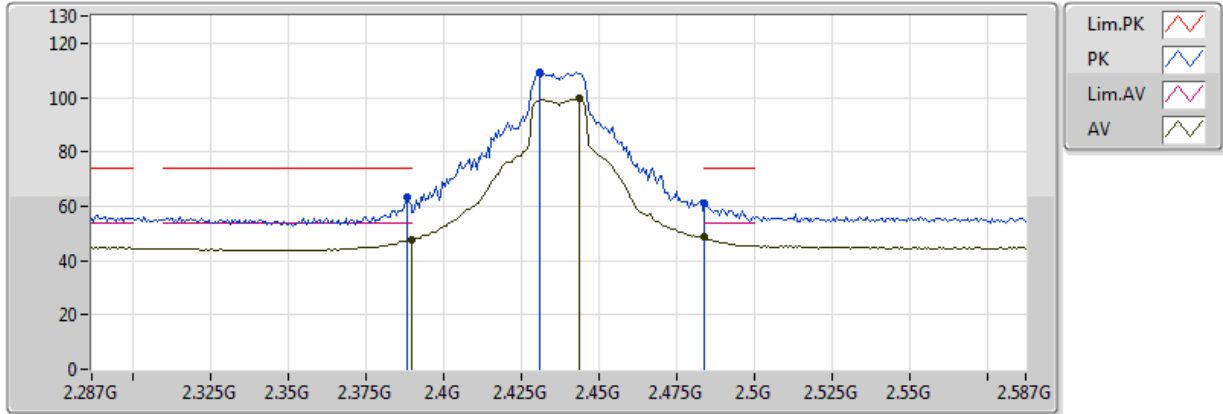


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.81966G	32.16	54.00	-21.84	4.71	3	H	210	1.50	-
PK	4.82156G	45.89	74.00	-28.11	4.71	3	H	210	1.50	-

802.11g_(6Mbps)_1TX

2437MHz_TX

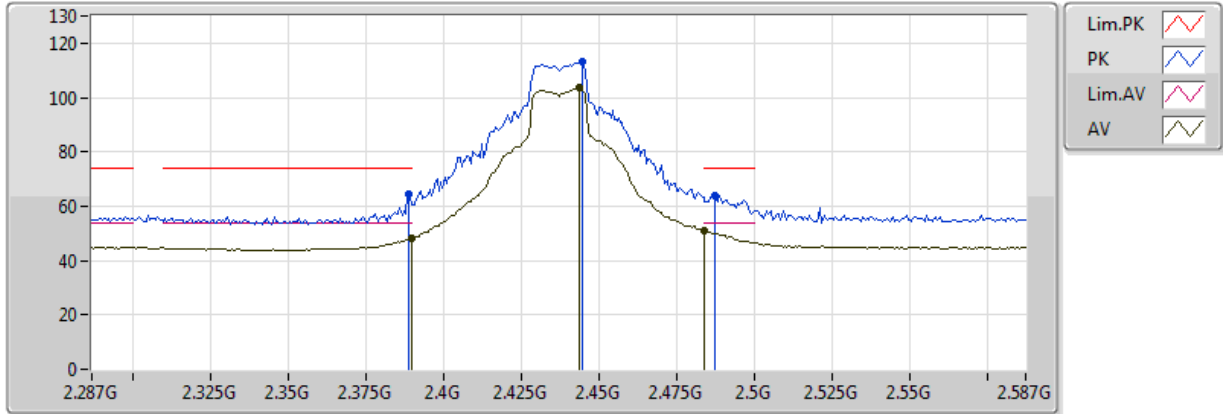


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	47.75	54.00	-6.25	31.91	3	V	62	2.60	-
AV	2.4436G	99.99	Inf	-Inf	32.04	3	V	62	2.60	-
AV	2.483502G	48.59	54.00	-5.41	32.14	3	V	62	2.60	-
PK	2.3884G	63.30	74.00	-10.70	31.91	3	V	62	2.60	-
PK	2.431G	109.29	Inf	-Inf	32.01	3	V	62	2.60	-
PK	2.4838G	61.19	74.00	-12.81	32.14	3	V	62	2.60	-

802.11g_(6Mbps)_1TX

2437MHz_TX



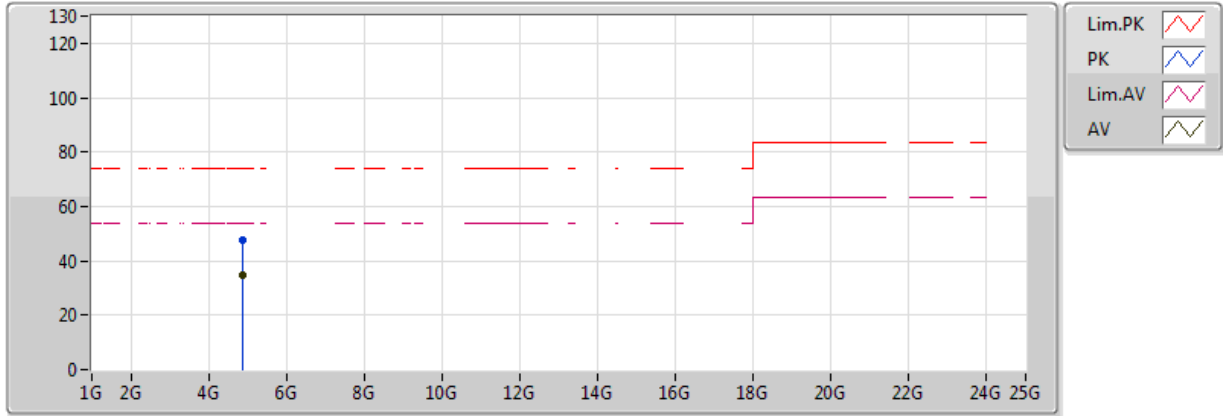
EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	47.95	54.00	-6.05	31.91	3	H	354	2.75	-
AV	2.4436G	103.72	Inf	-Inf	32.04	3	H	354	2.75	-
AV	2.483502G	51.10	54.00	-2.90	32.14	3	H	354	2.75	-
PK	2.389G	64.65	74.00	-9.35	31.91	3	H	354	2.75	-
PK	2.4448G	113.05	Inf	-Inf	32.05	3	H	354	2.75	-
PK	2.4874G	64.05	74.00	-9.95	32.15	3	H	354	2.75	-



802.11g_(6Mbps)_1TX

2437MHz_TX



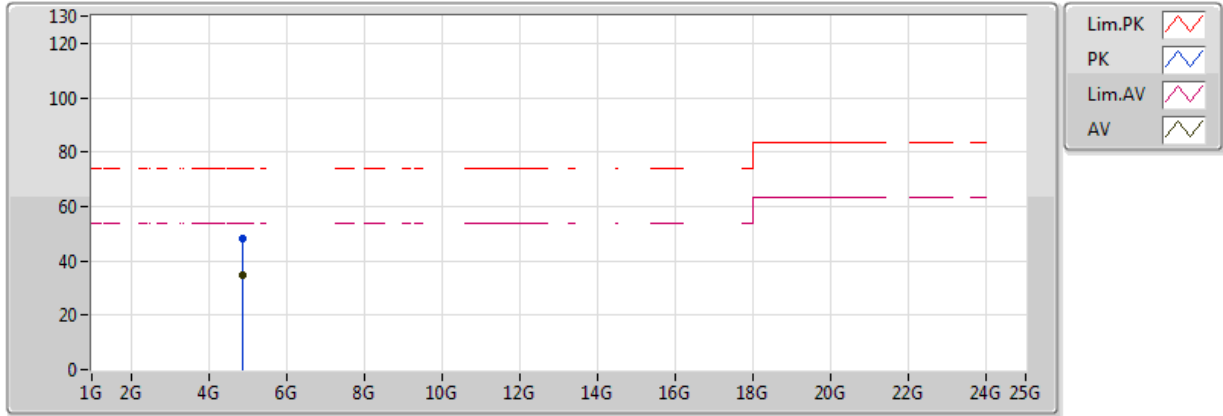
EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87368G	34.50	54.00	-19.50	4.82	3	V	167	1.37	-
PK	4.87666G	47.53	74.00	-26.47	4.82	3	V	167	1.37	-



802.11g_(6Mbps)_1TX

2437MHz_TX

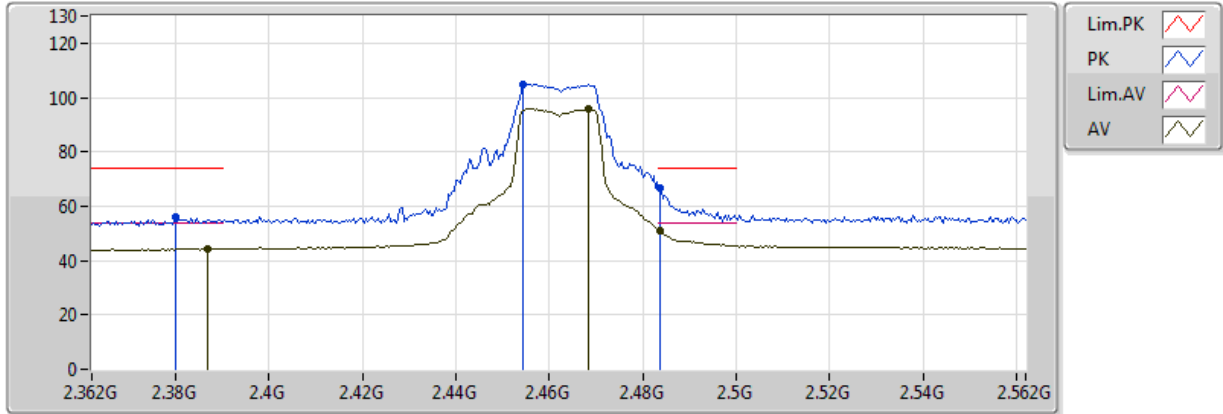


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87346G	34.82	54.00	-19.18	4.82	3	H	201	1.50	-
PK	4.87422G	47.94	74.00	-26.06	4.82	3	H	201	1.50	-

802.11g_(6Mbps)_1TX

2462MHz_TX

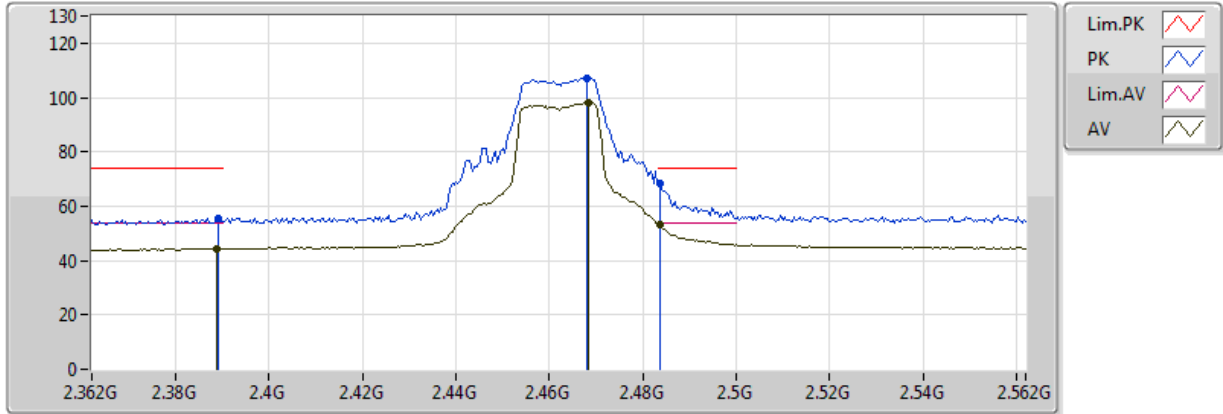


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3868G	44.45	54.00	-9.55	31.91	3	V	114	2.48	-
AV	2.4684G	95.95	Inf	-Inf	32.10	3	V	114	2.48	-
AV	2.4836G	51.22	54.00	-2.78	32.14	3	V	114	2.48	-
PK	2.38G	55.88	74.00	-18.12	31.89	3	V	114	2.48	-
PK	2.4544G	105.01	Inf	-Inf	32.07	3	V	114	2.48	-
PK	2.4836G	66.48	74.00	-7.52	32.14	3	V	114	2.48	-

802.11g_(6Mbps)_1TX

2462MHz_TX



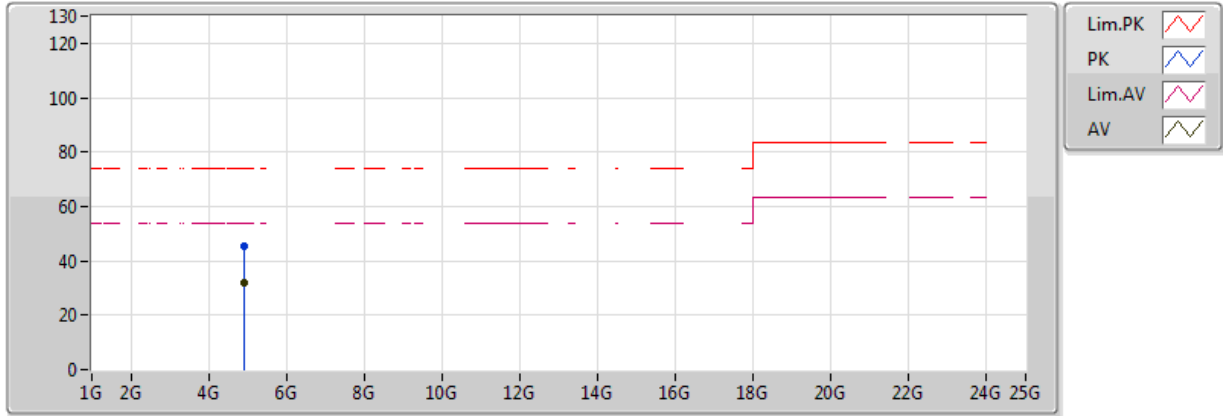
EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3888G	44.46	54.00	-9.54	31.91	3	H	354	2.68	-
AV	2.4684G	97.93	Inf	-Inf	32.10	3	H	354	2.68	-
AV	2.4836G	53.45	54.00	-0.55	32.14	3	H	354	2.68	-
PK	2.3892G	55.34	74.00	-18.66	31.91	3	H	354	2.68	-
PK	2.468G	107.12	Inf	-Inf	32.10	3	H	354	2.68	-
PK	2.4836G	68.56	74.00	-5.44	32.14	3	H	354	2.68	-



802.11g_(6Mbps)_1TX

2462MHz_TX



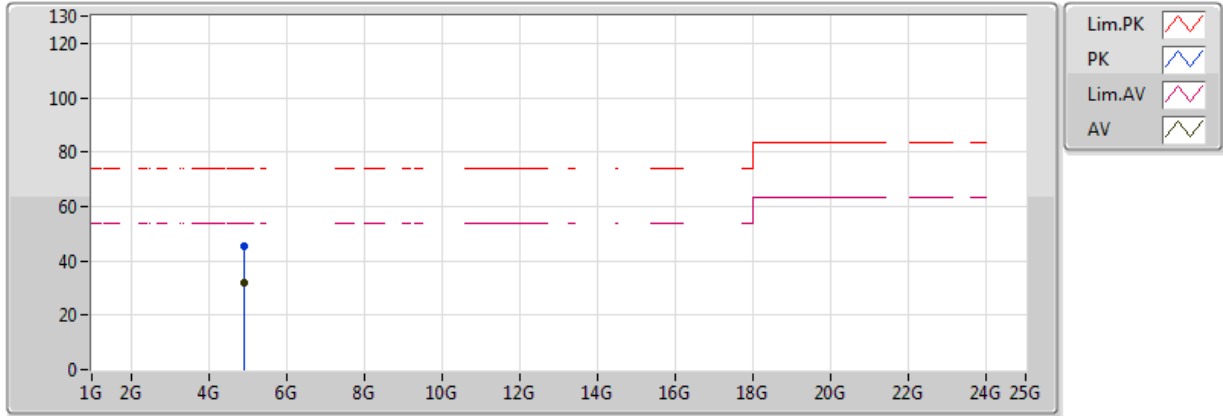
EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92894G	31.92	54.00	-22.08	4.93	3	V	1	1.18	-
PK	4.9208G	45.15	74.00	-28.85	4.92	3	V	1	1.18	-



802.11g_(6Mbps)_1TX

2462MHz_TX

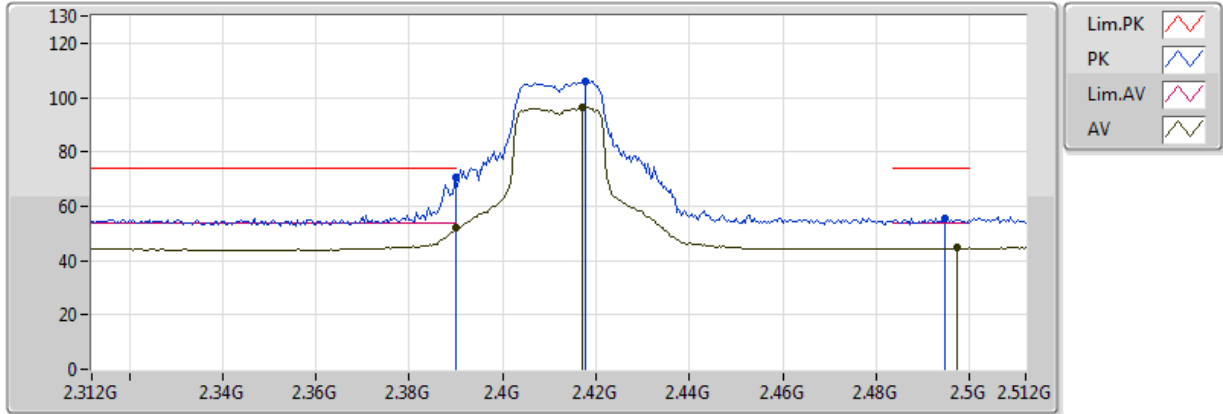


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92806G	32.03	54.00	-21.97	4.93	3	H	7	2.29	-
PK	4.92622G	45.24	74.00	-28.76	4.93	3	H	7	2.29	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

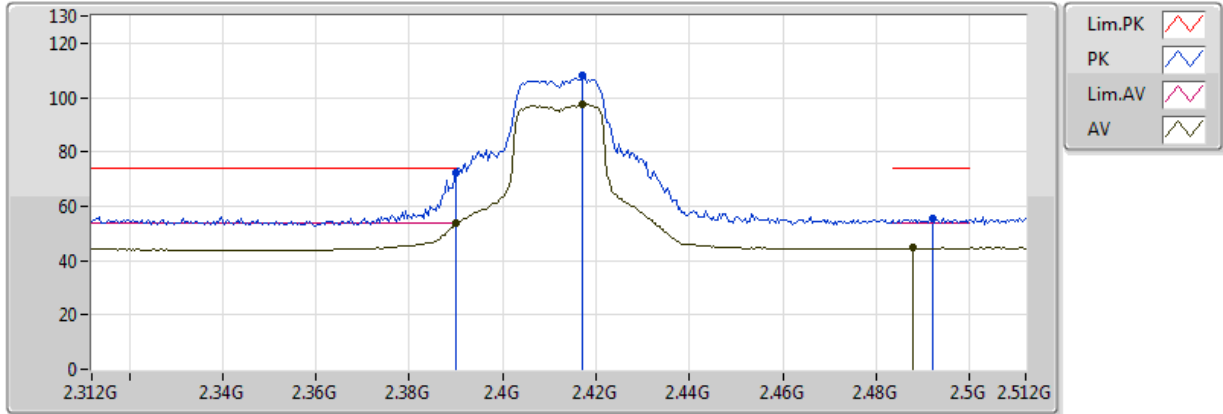


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	51.85	54.00	-2.15	31.91	3	V	115	2.56	-
AV	2.4172G	96.48	Inf	-Inf	31.98	3	V	115	2.56	-
AV	2.4972G	44.66	54.00	-9.34	32.17	3	V	115	2.56	-
PK	2.39G	70.49	74.00	-3.51	31.91	3	V	115	2.56	-
PK	2.4176G	105.89	Inf	-Inf	31.98	3	V	115	2.56	-
PK	2.4948G	55.67	74.00	-18.33	32.17	3	V	115	2.56	-

802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

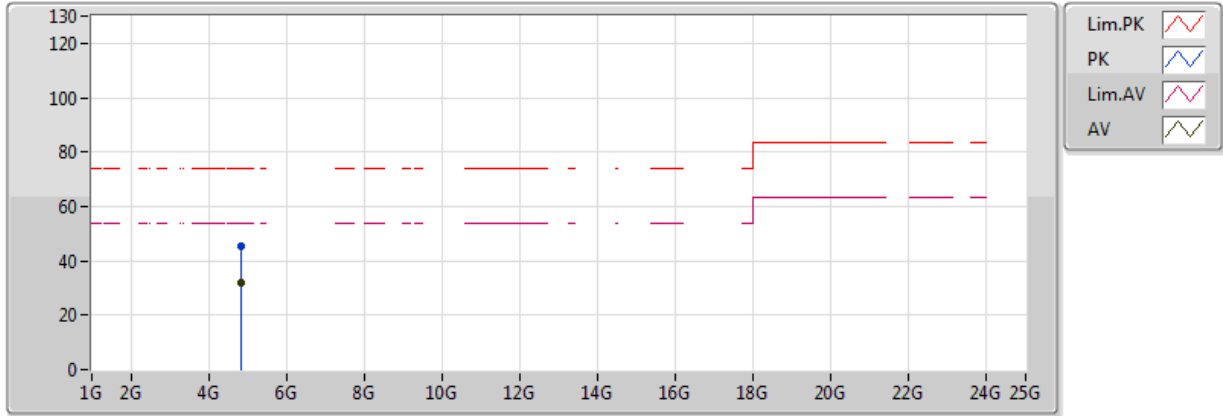


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.39G	53.54	54.00	-0.46	31.91	3	H	356	2.57	-
AV	2.4172G	97.63	Inf	-Inf	31.98	3	H	356	2.57	-
AV	2.488G	44.60	54.00	-9.40	32.15	3	H	356	2.57	-
PK	2.39G	72.06	74.00	-1.94	31.91	3	H	356	2.57	-
PK	2.4172G	108.12	Inf	-Inf	31.98	3	H	356	2.57	-
PK	2.492G	55.58	74.00	-18.42	32.16	3	H	356	2.57	-



**802.11n HT20_Nss1,(MCS0)_1TX
2412MHz_TX**



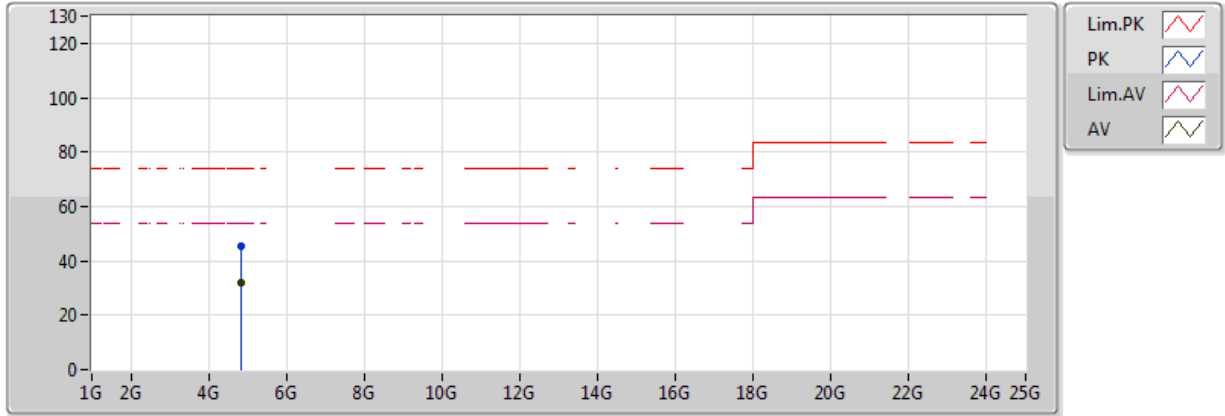
EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82166G	31.95	54.00	-22.05	4.71	3	V	359	1.59	-
PK	4.82848G	45.58	74.00	-28.42	4.73	3	V	359	1.59	-



802.11n HT20_Nss1,(MCS0)_1TX

2412MHz_TX

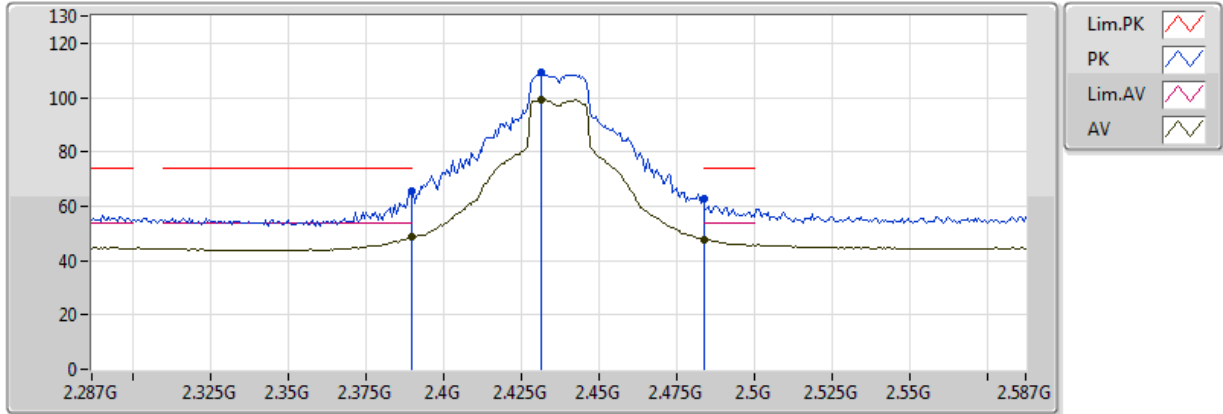


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.82236G	32.11	54.00	-21.89	4.71	3	H	188	1.01	-
PK	4.82352G	45.64	74.00	-28.36	4.72	3	H	188	1.01	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

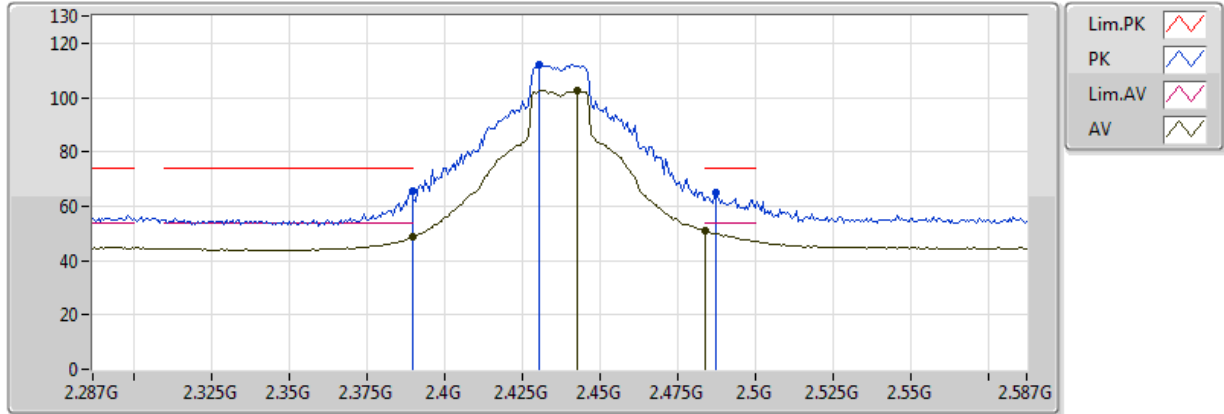


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	48.51	54.00	-5.49	31.91	3	V	78	2.59	-
AV	2.4316G	99.45	Inf	-Inf	32.02	3	V	78	2.59	-
AV	2.483502G	47.82	54.00	-6.18	32.14	3	V	78	2.59	-
PK	2.389998G	65.84	74.00	-8.16	31.91	3	V	78	2.59	-
PK	2.4316G	109.35	Inf	-Inf	32.02	3	V	78	2.59	-
PK	2.483502G	62.49	74.00	-11.51	32.14	3	V	78	2.59	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

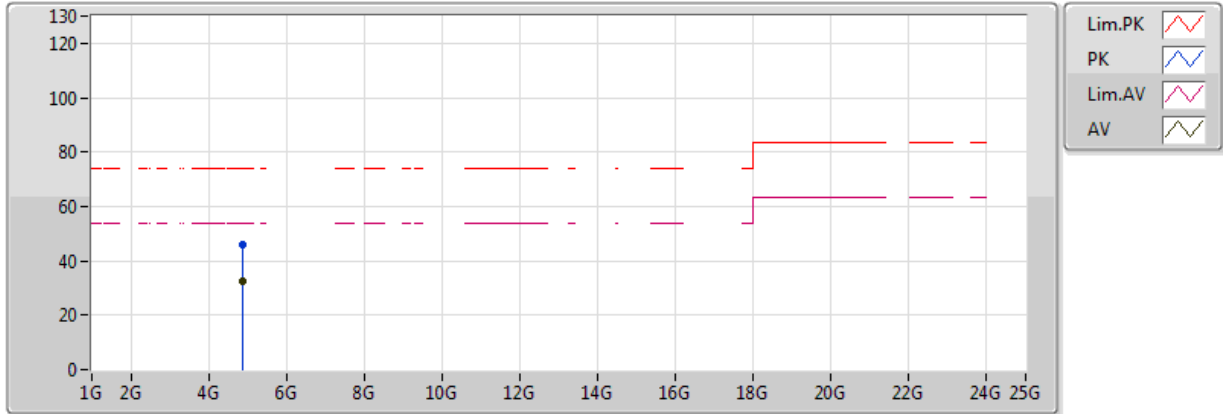


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.389998G	48.68	54.00	-5.32	31.91	3	H	1	2.77	-
AV	2.4424G	102.68	Inf	-Inf	32.04	3	H	1	2.77	-
AV	2.483502G	50.88	54.00	-3.12	32.14	3	H	1	2.77	-
PK	2.3896G	65.32	74.00	-8.68	31.91	3	H	1	2.77	-
PK	2.4304G	112.17	Inf	-Inf	32.01	3	H	1	2.77	-
PK	2.4874G	65.20	74.00	-8.80	32.15	3	H	1	2.77	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

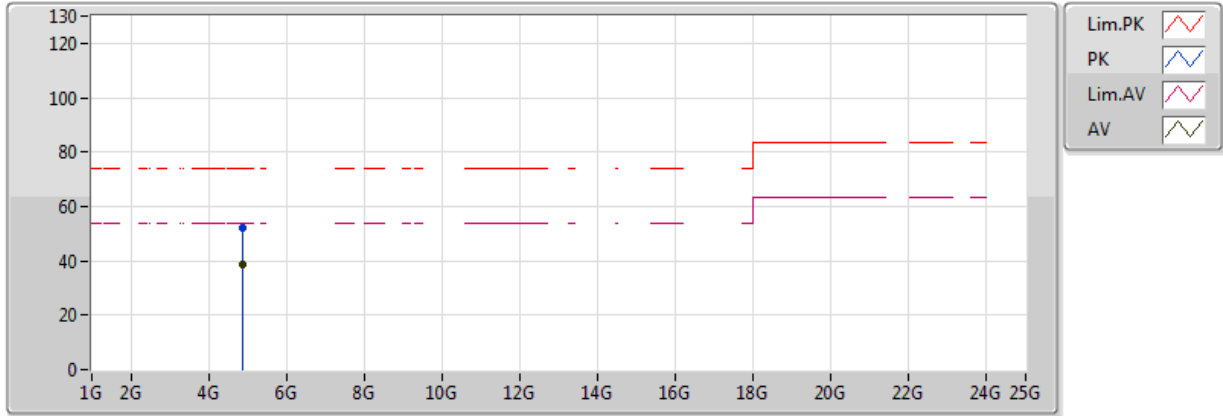


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87418G	32.48	54.00	-21.52	4.82	3	V	84	2.18	-
PK	4.87532G	45.84	74.00	-28.16	4.82	3	V	84	2.18	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_TX

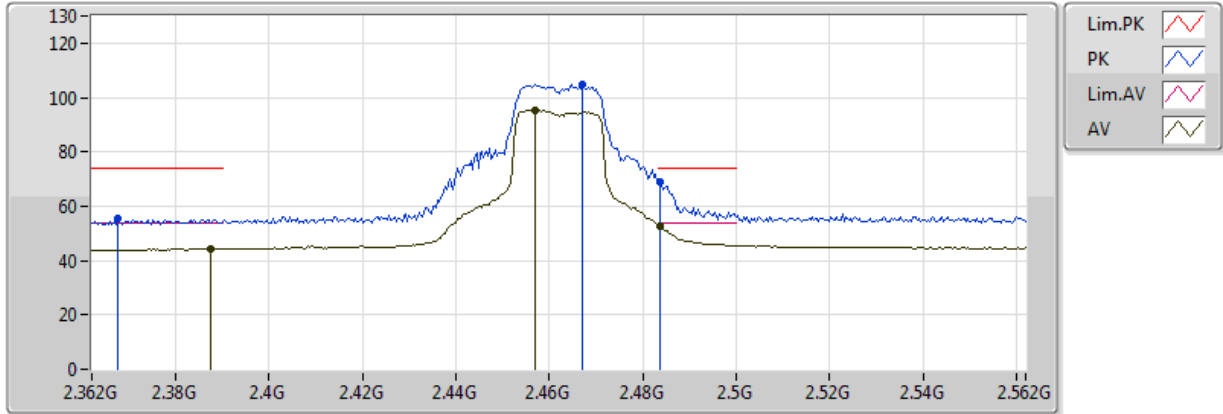


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.87398G	38.72	54.00	-15.28	4.82	3	H	95	2.31	-
PK	4.87438G	51.85	74.00	-22.15	4.82	3	H	95	2.31	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

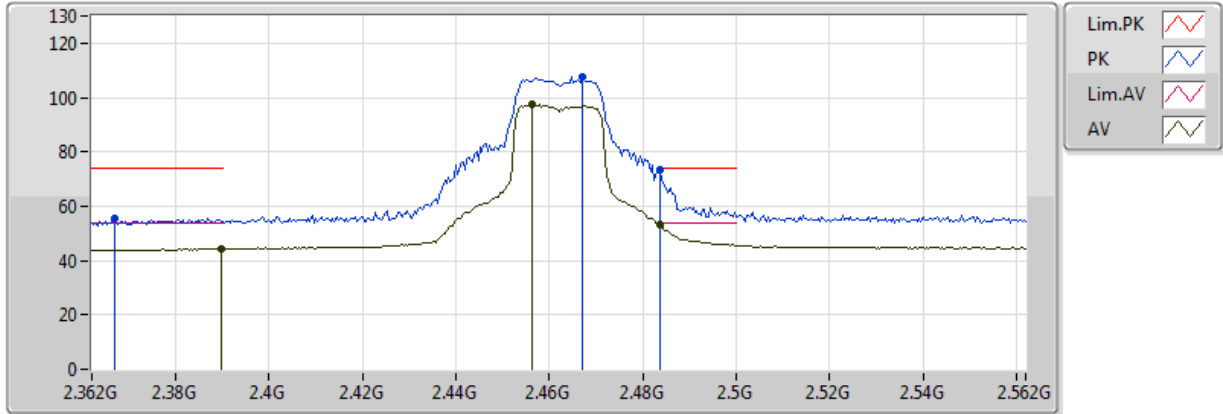


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3876G	44.24	54.00	-9.76	31.91	3	V	115	2.40	-
AV	2.4568G	95.43	Inf	-Inf	32.08	3	V	115	2.40	-
AV	2.4836G	52.44	54.00	-1.56	32.14	3	V	115	2.40	-
PK	2.3676G	55.20	74.00	-18.80	31.86	3	V	115	2.40	-
PK	2.4672G	104.76	Inf	-Inf	32.10	3	V	115	2.40	-
PK	2.4836G	68.75	74.00	-5.25	32.14	3	V	115	2.40	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

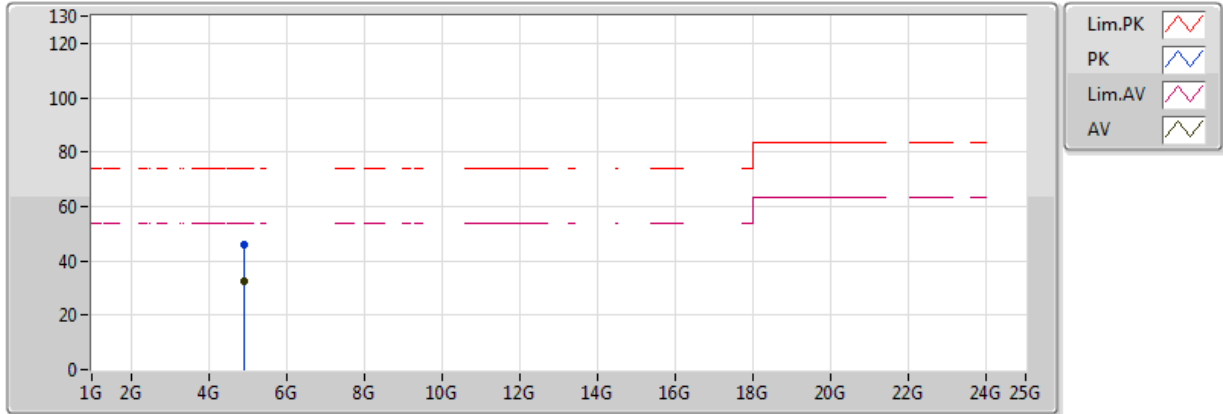


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	2.3896G	44.29	54.00	-9.71	31.91	3	H	358	2.76	-
AV	2.4564G	97.46	Inf	-Inf	32.08	3	H	358	2.76	-
AV	2.4836G	53.00	54.00	-1.00	32.14	3	H	358	2.76	-
PK	2.3668G	55.47	74.00	-18.53	31.85	3	H	358	2.76	-
PK	2.4672G	107.55	Inf	-Inf	32.10	3	H	358	2.76	-
PK	2.4836G	73.53	74.00	-0.47	32.14	3	H	358	2.76	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX

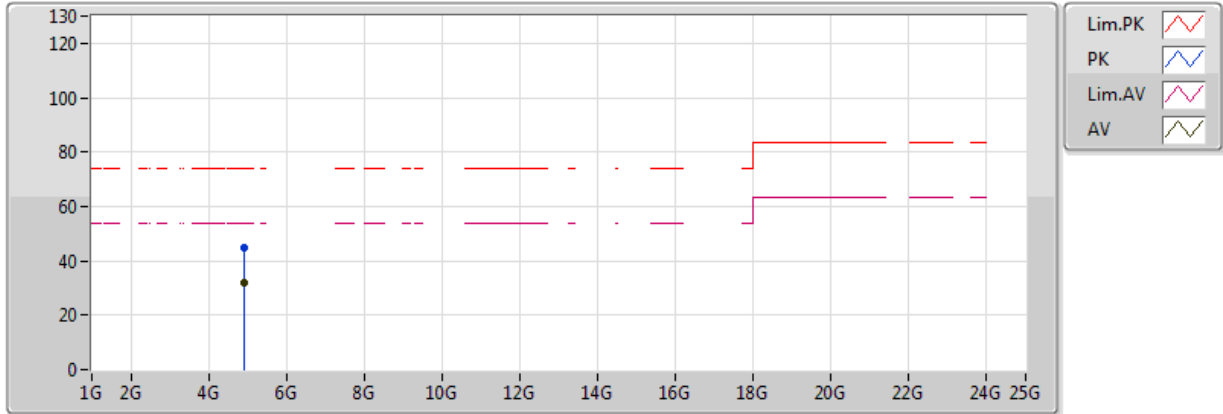


EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.92614G	32.45	54.00	-21.55	4.93	3	V	32	1.89	-
PK	4.92546G	45.70	74.00	-28.30	4.93	3	V	32	1.89	-

802.11n HT20_Nss1,(MCS0)_1TX

2462MHz_TX



EUT = Y axis

Type	Freq(Hz)	Level(dBuV/m)	Limit(dBuV/m)	Margin(dB)	Factor(dB)	Dist(m)	Pol.(H/V)	Azimuth(°)	Height(m)	Comments
AV	4.91914G	32.08	54.00	-21.92	4.91	3	H	133	1.05	-
PK	4.92012G	44.99	74.00	-29.01	4.91	3	H	133	1.05	-