

NCC Test Report

Equipment : 汽車主機
Brand Name : 戰鬥機汽車音響
Model Name : FLR-T3
Applicant : 戰鬥機汽車音響有限公司
彰化縣秀水鄉安東村民意街 479 巷 16-13 號
Manufacturer : 深圳勝派科技有限公司
深圳市光明新區圳美大道華美工業園 C8 棟 5 樓
Standard : LP0002 Section 3.10 (2018-01-10)

The product was received on Dec. 26, 2018, and testing was started from Jan. 04, 2019 and completed on Jan. 15, 2019. 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: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY 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	8
2.3 The Worst Case Measurement Configuration.....	9
2.4 Support Equipment.....	9
2.5 Test Setup Diagram	10
3 TRANSMITTER TEST RESULT	13
3.1 AC Power-line Conducted Emissions	13
3.2 DTS Bandwidth.....	14
3.3 Maximum Conducted Output Power	15
3.4 Power Spectral Density	17
3.5 Emissions in Non-restricted Frequency Bands	18
3.6 Emissions in Restricted Frequency Bands.....	19
3.7 Receiver Radiated Spurious Emissions	22
4 TEST EQUIPMENT AND CALIBRATION DATA	25
APPENDIX A. TEST RESULTS OF AC POWER-LINE CONDUCTED EMISSIONS	
APPENDIX B. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX C. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX D. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX E. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX G. TEST RESULTS OF RECEIVER RADIATED UNWANTED EMISSIONS	
APPENDIX H. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	

History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	3.10.1.4	Antenna Requirement	PASS	LP0002-2.2
3.1	2.3	AC Power-line Conducted Emissions	PASS	LP0002-2.3
3.2	3.10.1.6	DTS Bandwidth	PASS	≥500kHz
3.3	3.10.1.2	Maximum Conducted Output Power	PASS	Power [dBm]: 30
3.4	3.10.1.6	Power Spectral Density	PASS	PSD [dBm/3kHz]: 8
3.5	3.10.1.5	Emissions in Non-restricted Frequency Bands	PASS	Non-Restricted Bands: > 30 dBc
3.6	3.10.1.5	Emissions in Restricted Frequency Bands	PASS	Restricted Bands: LP0002-2.8
3.7	2.11	Receiver Radiated Unwanted Emissions	PASS	Restricted Bands: LP0002-2.8

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: Sam Tsai

Report Producer: Michelle Tsai

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.	Brand	Model Name	Antenna Type	Connector
1	揚州上由	XJH-2.4G	Dipole	reserve SMA
2	AFC	YG-WIFI-48-200	PCB	NA

Ant.	Port	Gain (dBi)	
		2.4G	BT
1	1	2	-
2	1	-	2.15

For 2.4GHz function:

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

Ant. 1 (port 1) could transmit/receive simultaneously.

For BT function:

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

Ant. 2 (port 1) could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From DC Power Supply			
EUT Function	☒	Point-to-multipoint	☐	Point-to-point
Beamforming Function	☐	With beamforming	☒	Without beamforming
Type of EUT				
☒	Stand-alone			
☐	Combined (EUT where the radio part is fully integrated within another device)			
	Combined Equipment - Brand Name / Model 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) $\geq 1/T$
802.11b	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11n HT20	1	0	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)

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

1.2 Testing Applied Standards

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

- ♦ LP0002 (2018-01-10)
- ♦ ANSI C63.10-2013
- ♦ KDB 558074 D01 v05
- ♦ ANSI C63.4-2014

1.3 Testing Location Information

Testing Location			
☒	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
☐	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 Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-HY	Andy	23.5°C / 62%	09/Jan/2019
Radiated	03CH02-HY	Andy	22.8°C / 58%	15/Jan/2019
AC Conduction	CO04-HY	Andy	23.2°C / 60%	04/Jan/2019

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%

2 Test Configuration of EUT

2.1 Test Condition

RF Conducted	Abbreviation	Remark
RF Conducted	Abbreviation	Remark
TnomVnom	Tnom	20°C
-	Vnom	12V

2.2 Test Channel Mode

Test Software Version	WLAN Test Tool Version 1.5.0
-----------------------	------------------------------

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	60
2437MHz	57
2442MHz	57
2447MHz	54
2452MHz	54
2457MHz	52
2462MHz	51
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	59
2437MHz	62
2442MHz	62
2447MHz	59
2452MHz	58
2457MHz	56
2462MHz	53
802.11n HT20_Nss1,(MCS0)_1TX	-
2412MHz	60
2417MHz	62
2437MHz	62
2442MHz	61
2447MHz	59
2452MHz	57
2457MHz	56
2462MHz	53

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	CTX/CRX
1	DC Power Supply 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

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

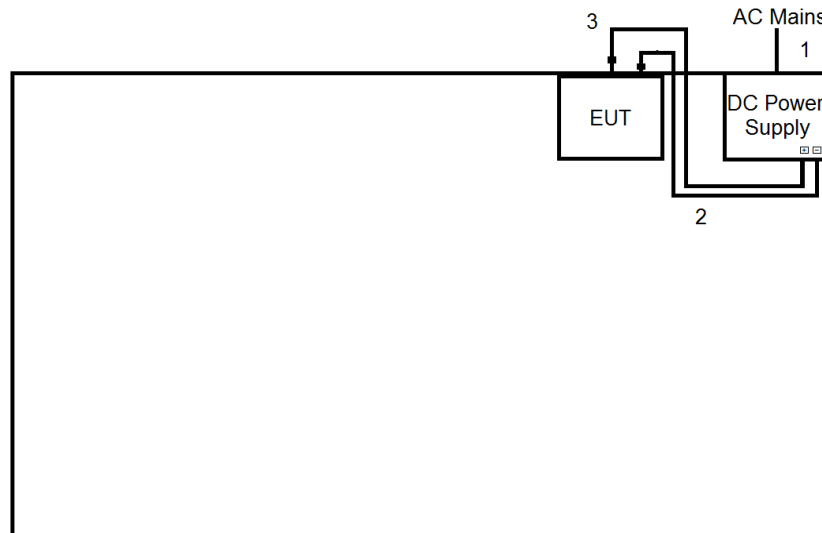
2.4 Support Equipment

Support Equipment – AC Conduction and Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	DC Power Supply	G.W	GPS3030DD	NA

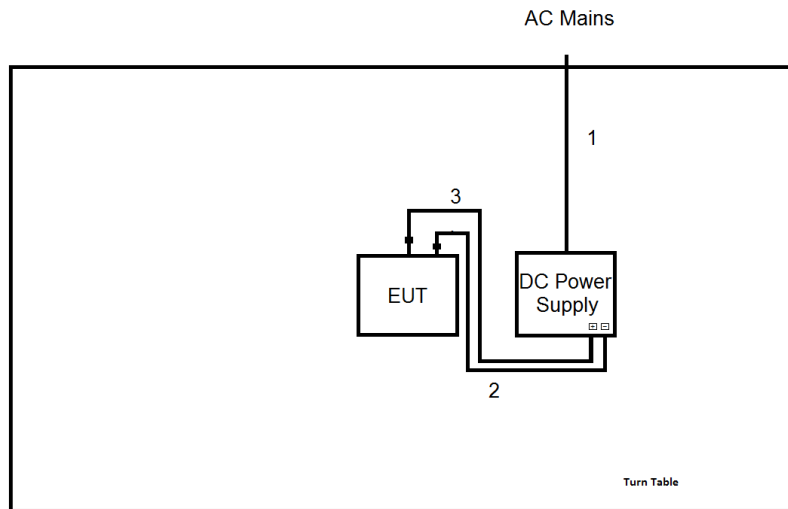
Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	DC Power Supply	GW	GPS-3030DD	NA

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test

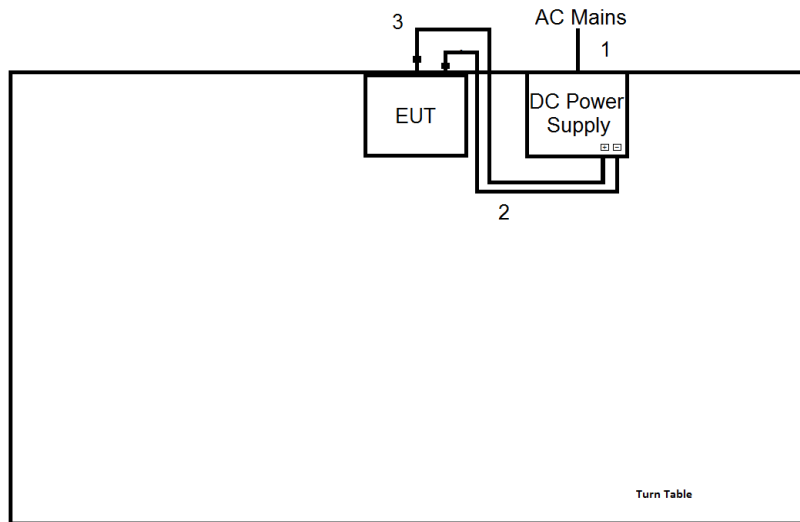


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	DC Power line	No	1.0	-
3	DC Power line	No	1.0	-

Test Setup Diagram - Radiated Test (TX)


Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	DC Power line	No	1.0	-
3	DC Power line	No	1.0	-

Test Setup Diagram - Radiated Test (RX)



Item	Connection	Shielded	Length(m)	Remark
1	AC Power line	No	1.5	-
2	DC Power line	No	1.0	-
3	DC Power line	No	1.0	-

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.

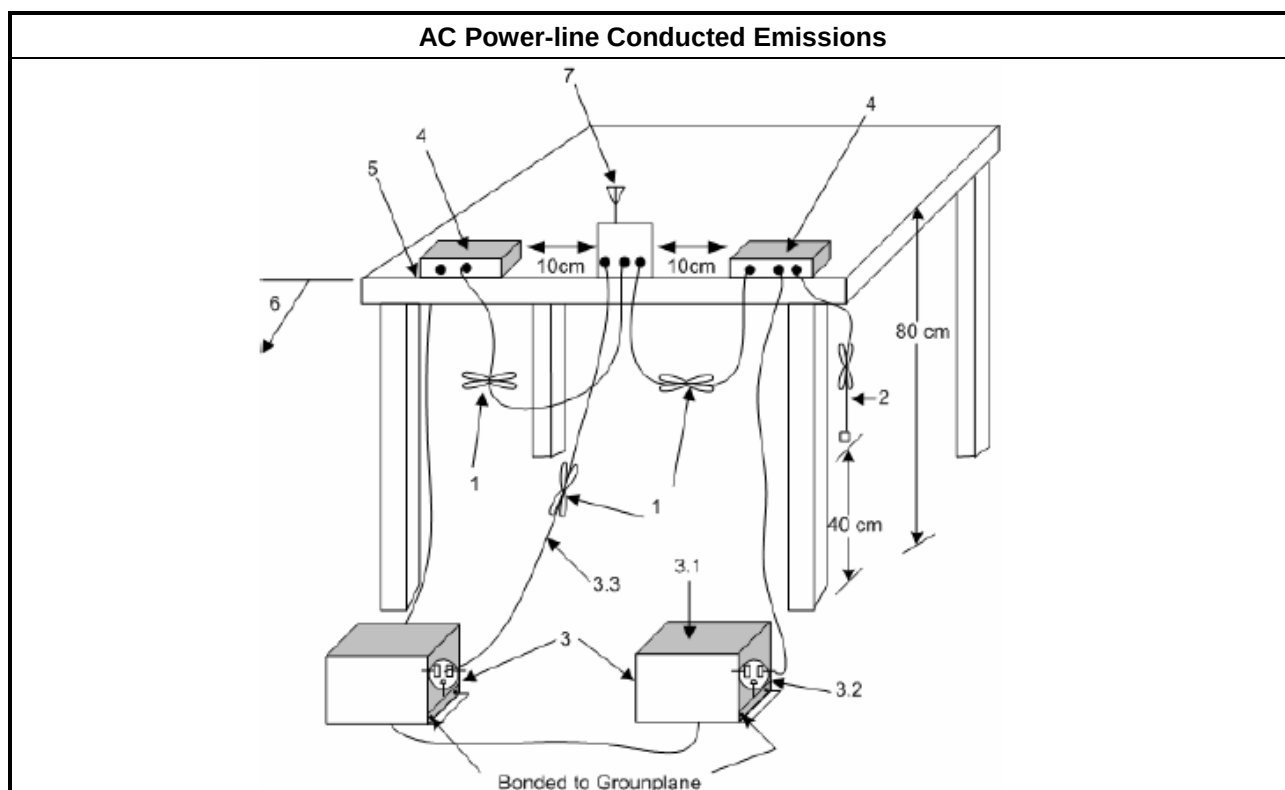
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ 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:
6 dB bandwidth $\geq$ 500 kHz.

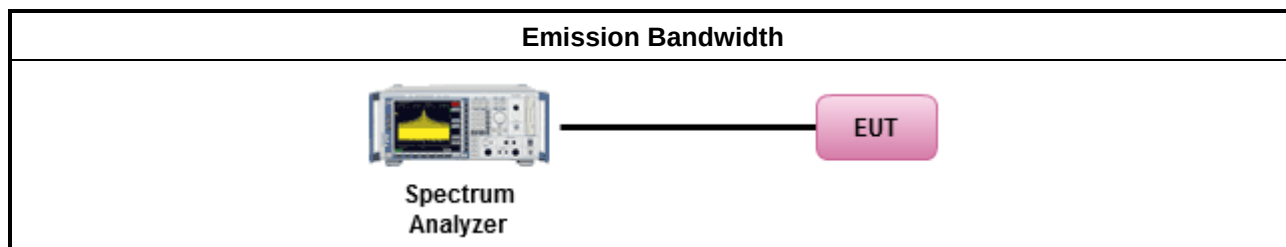
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method
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



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		
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ 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. Power Limit:		
	2400-2483.5 MHz Band	
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)	
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm	
	Smart antenna system (SAS)	
	-	Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	-	Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	-	Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ 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.		

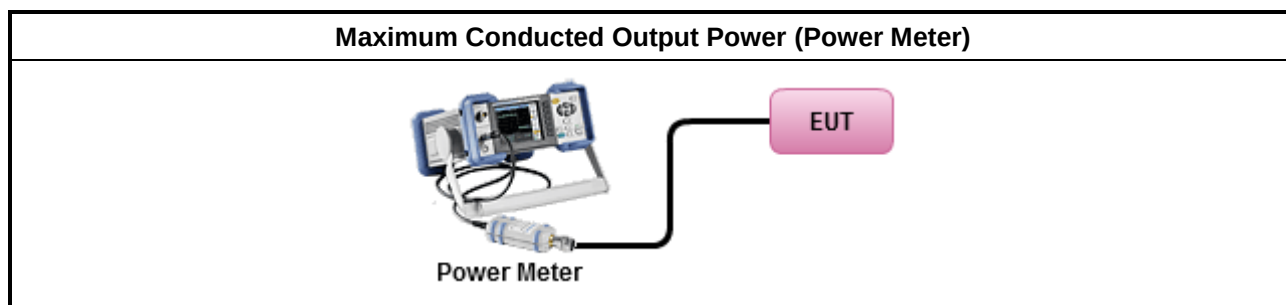
3.3.2 Measuring Instruments

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

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: $P_{total} = P_1 + P_2 + \dots + P_n$ (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	
▪	Power Spectral Density (PSD) ≤ 8 dBm/3kHz

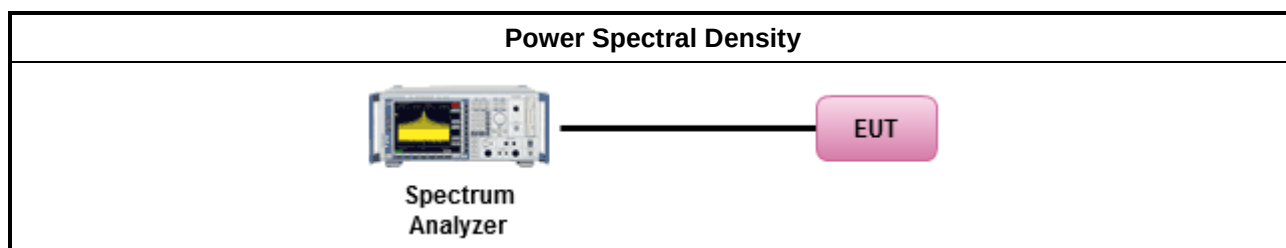
3.4.2 Measuring Instruments

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

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.	

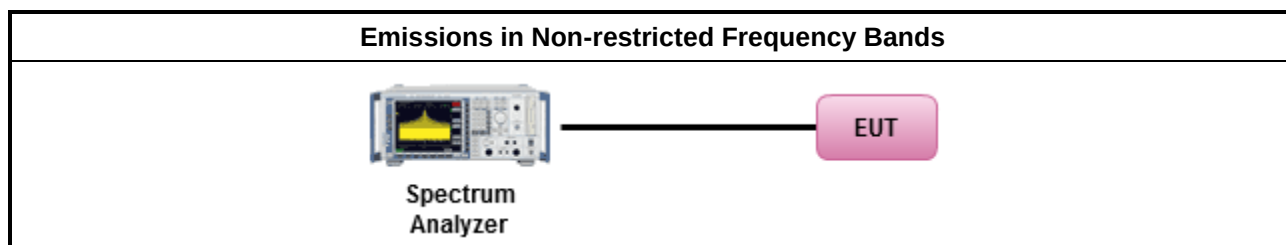
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
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

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.

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.

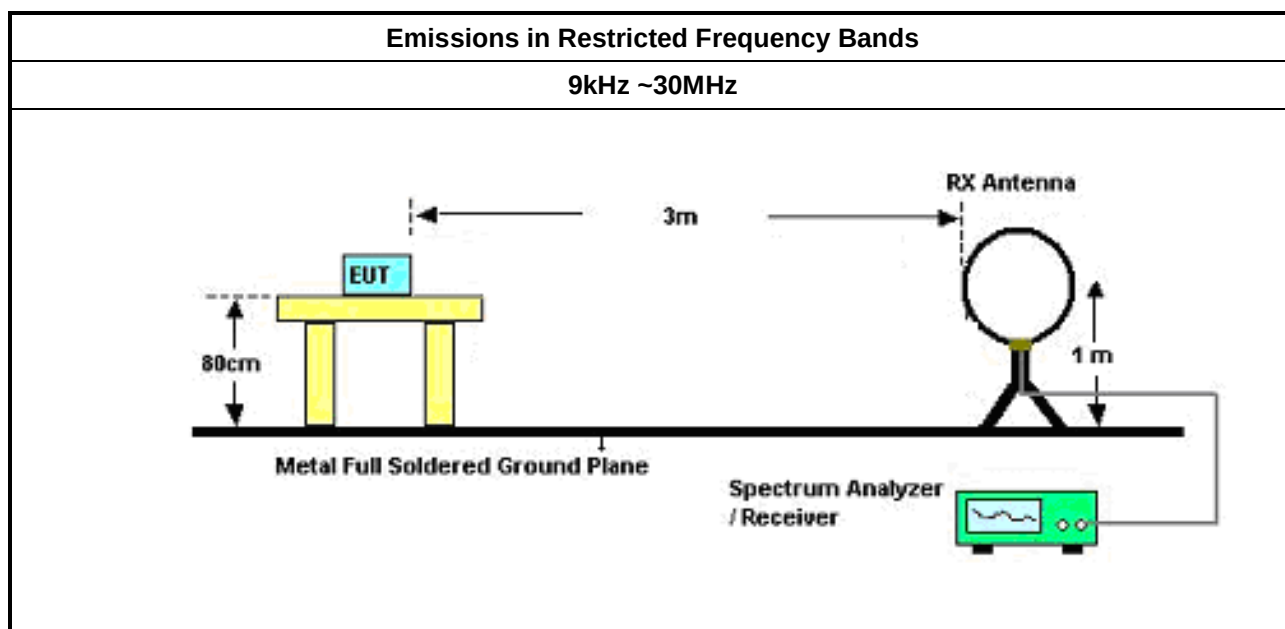
3.6.2 Measuring Instruments

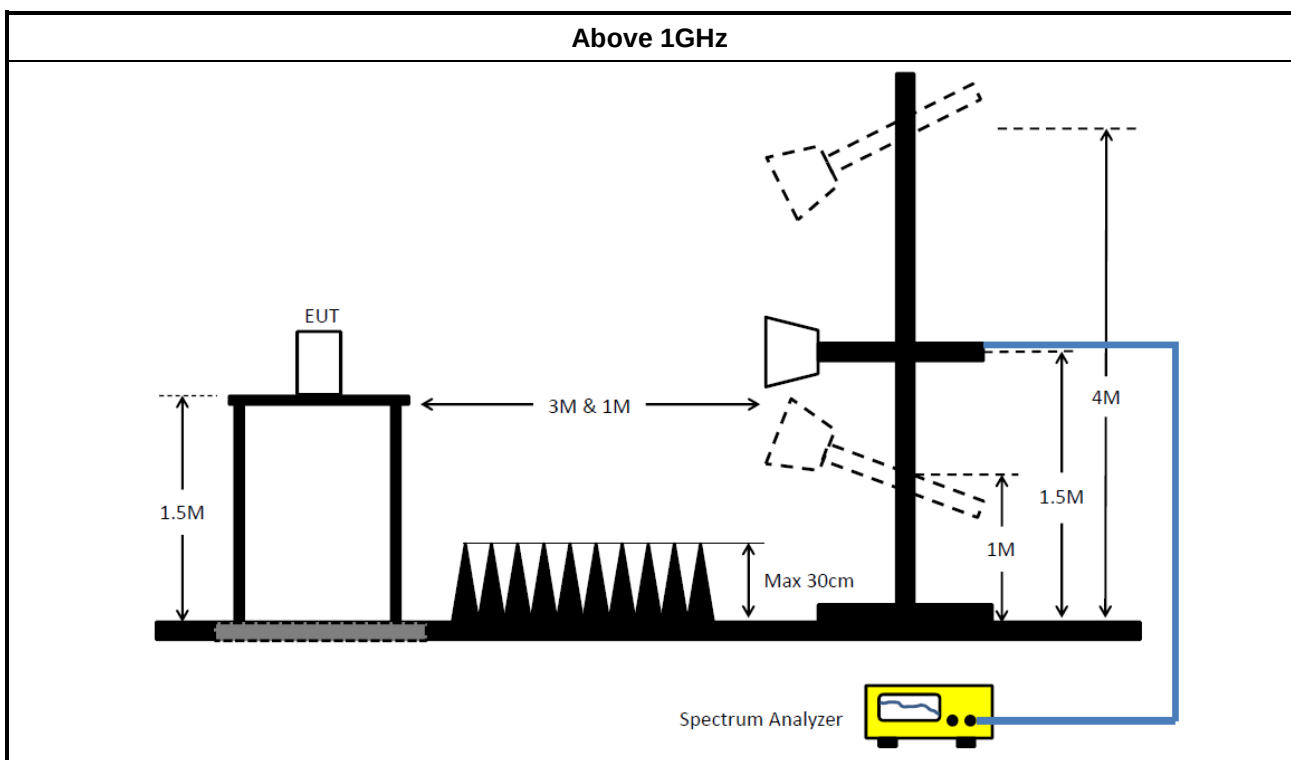
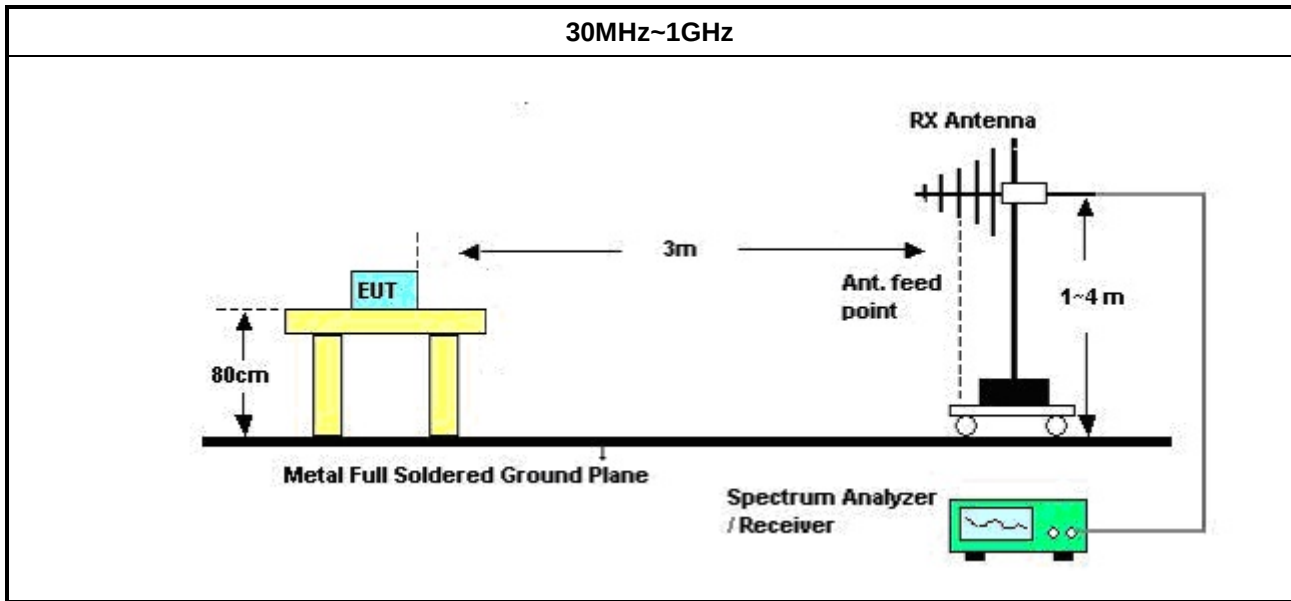
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
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.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.

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.

3.6.6 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

3.7 Receiver Radiated Spurious Emissions

3.7.1 Receiver in Radiated Spurious Emissions Limit

Restricted Spurious 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.

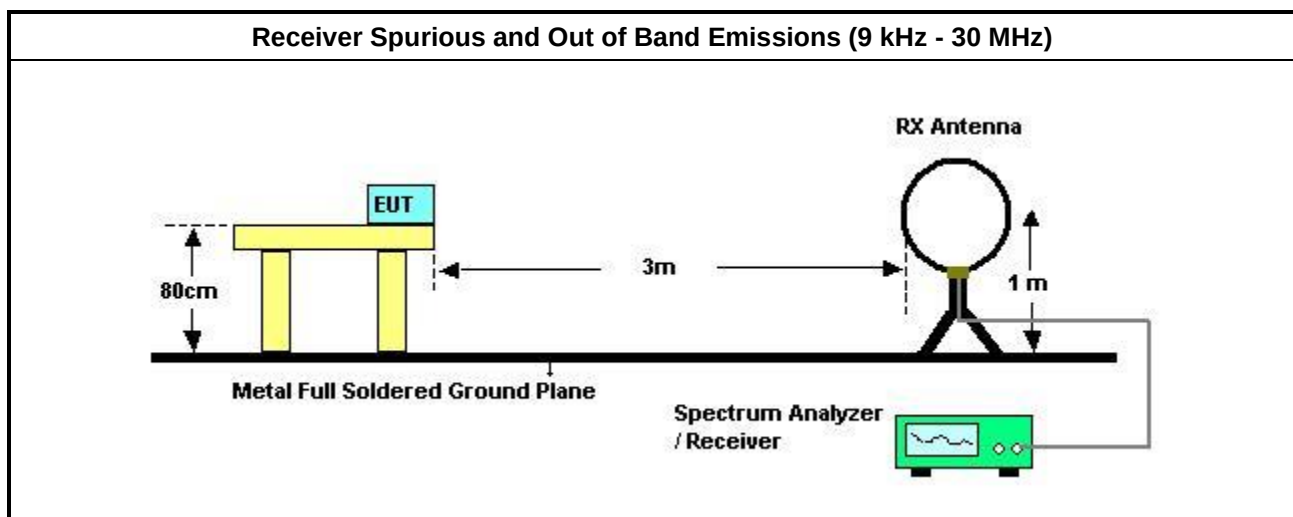
3.7.2 Measuring Instruments

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

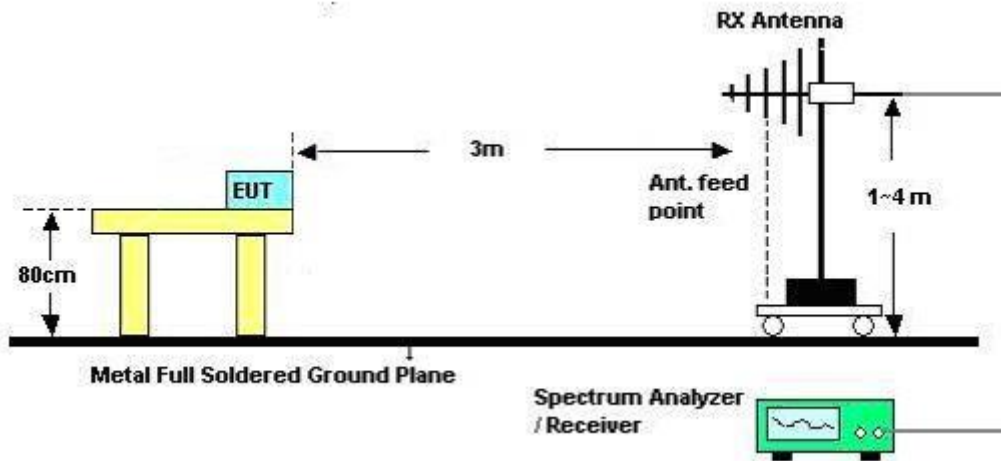
3.7.3 Test Procedures

Test Method	
☒	The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least 3 times the highest tuneable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.
☒	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).
☒	For radiated measurement, refer as ANSI C63.4, clause 8.3.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from below 30 MHz.
☒	Refer as ANSI C63.4, clause 8.3.1.1 and 8.3.2.1 for radiated emissions from 30 MHz-1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the QP-Limit so that the QP level does not need to be reported in addition.
☒	Refer as ANSI C63.4, clause 8.3.1.2 and 8.3.2.2 for radiated emissions from above 1 GHz. For the peak measurement is fully sufficient, as the max field strength as measured with the Peak-Detector meets the AV-Limit so that the AV level does not need to be reported in addition.
☒	All amplitude of spurious emissions that are attenuated by more than 30 dB below the permissible value has no need to be reported.

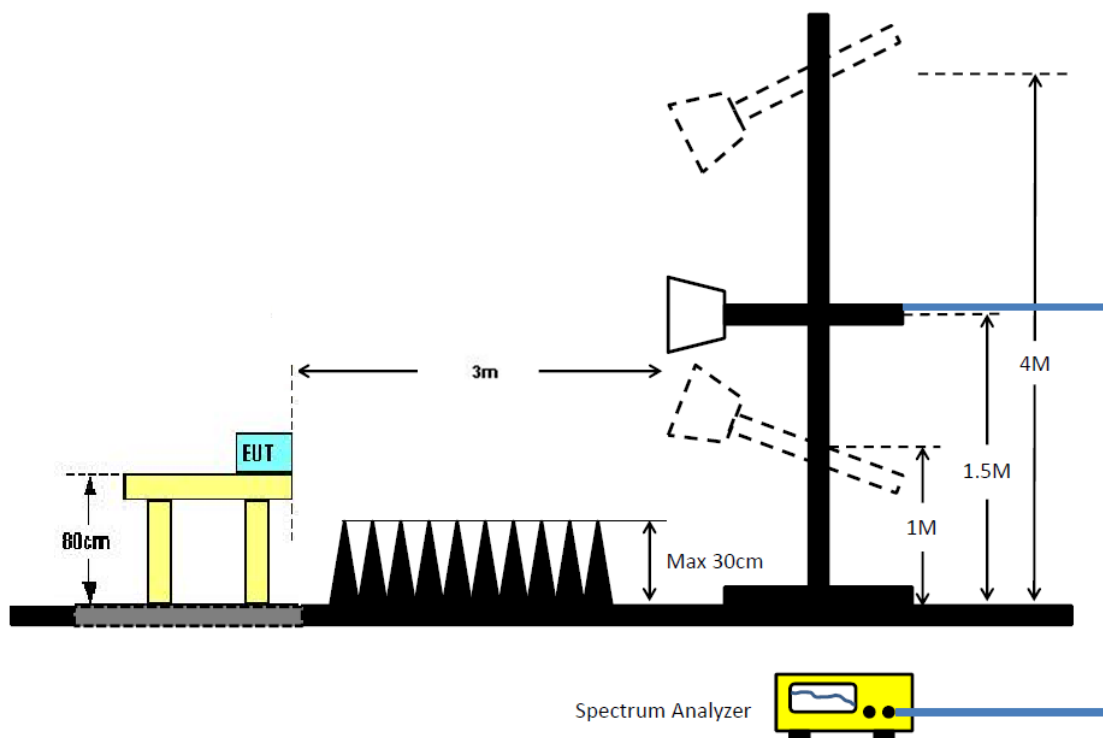
3.7.4 Test Setup



Receiver Radiated Unwanted Emissions (below 1GHz)



Receiver Radiated Unwanted Emissions (above 1GHz)



3.7.5 Receiver Radiated Unwanted Emissions (Below 30MHz)

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

3.7.6 Test Result of Receiver Radiated Unwanted Emissions

Refer as Appendix G

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
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	SIDT FRANKONIA	SAC-3M	03CH02-HY	30MHz ~ 1GHz 3m	19/Oct/2018	18/Oct/2019
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz ~ 18GHz 3m	17/Oct/2018	16/Oct/2019
Amplifier	Agilent	8447D	2944A11149	100kHz ~ 1.3GHz	27Jul/2018	02/Jul/2019
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz ~ 26.5GHz	23/Oct/2018	22/Oct/2019
Signal Analyzer	R&S	FSV40	101500	10Hz ~ 40GHz	18/Jul/2018	17/Jul/2019
RF Cable-R03m	Jye Bao	RG142	CB017	9kHz ~ 1GHz	19/Jan/2018	18/Jan/2019
RF Cable-high	SUHNER	SUCOFLEX104	MY34918/4	1GHz ~ 40GHz	19/Jan/2018	18/Jan/2019
Bilog Antenna & 5dB Attenuator	SCHAFFNER / MTJ	CBL 6112B / MTJ6102-05	2723 / 2	30MHz ~ 1GHz	08/Sep/2018	07/Sep/2019
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	10/Apr/2018	09/Apr/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	29/Mar/2018	28/Mar/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz ~ 40GHz	12/Mar/2018	11/Mar/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 01543	1GHz ~ 18GHz	11/May/2018	10/May/2019

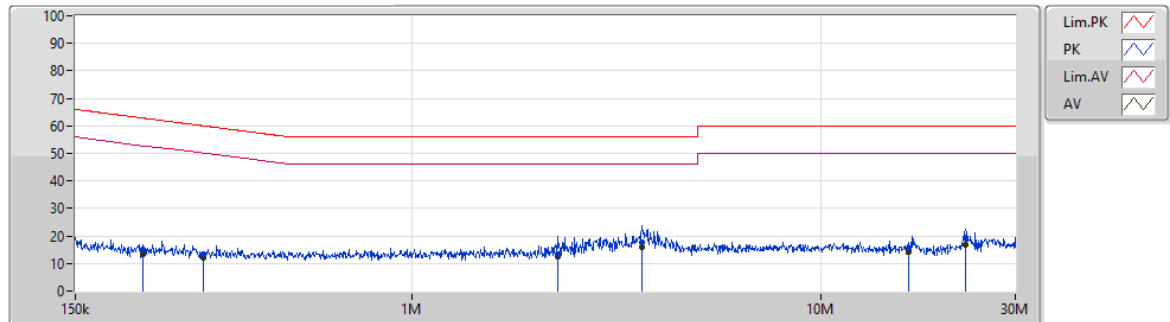
Instrument for Conducted Test

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
Signal Generator	R&S	SMB100A	175727	100kHz~40GHz	26/Oct/2018	25/Oct/2019
Power Sensor	Anritsu	MA2411B	0917017	300MHz ~ 40GHz	05/Feb/2018	04/Feb/2019
Power Meter	Anritsu	ML2495A	0949003	300MHz ~ 40GHz	05/Feb/2018	04/Feb/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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	DC Power Supply Mode ; TX		

04/01/2019

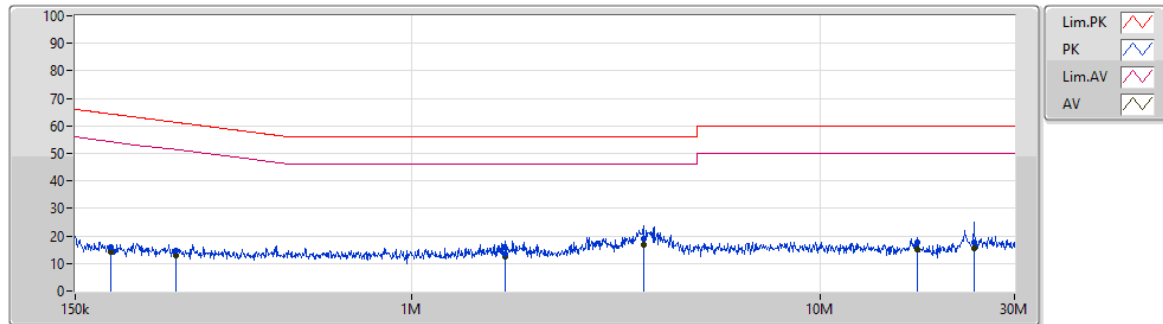


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	220.133k	15.04	62.81	-47.77	19.48	Line	-	-4.44	9.60	0.01	9.87			
AV	220.133k	13.46	52.81	-39.35	19.48	Line	-	-6.02	9.60	0.01	9.87			
QP	308.335k	13.39	60.02	-46.63	19.48	Line	-	-6.09	9.59	0.01	9.88			
AV	308.335k	12.10	50.02	-37.92	19.48	Line	-	-7.38	9.59	0.01	9.88			
QP	2.274M	13.35	56.00	-42.65	19.55	Line	-	-6.20	9.62	0.04	9.89			
AV	2.274M	12.34	46.00	-33.66	19.55	Line	-	-7.21	9.62	0.04	9.89			
QP	3.656M	17.88	56.00	-38.12	19.56	Line	-	-1.68	9.63	0.04	9.89			
AV	3.656M	15.83	46.00	-30.17	19.56	Line	"Worst"	-3.73	9.63	0.04	9.89			
QP	16.484M	15.71	60.00	-44.29	19.64	Line	-	-3.93	9.64	0.10	9.90			
AV	16.484M	14.16	50.00	-35.84	19.64	Line	-	-5.48	9.64	0.10	9.90			
QP	22.666M	19.52	60.00	-40.48	19.62	Line	-	-0.10	9.60	0.12	9.90			
AV	22.666M	16.63	50.00	-33.37	19.62	Line	-	-2.99	9.60	0.12	9.90			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	DC Power Supply Mode ; TX		

04/01/2019

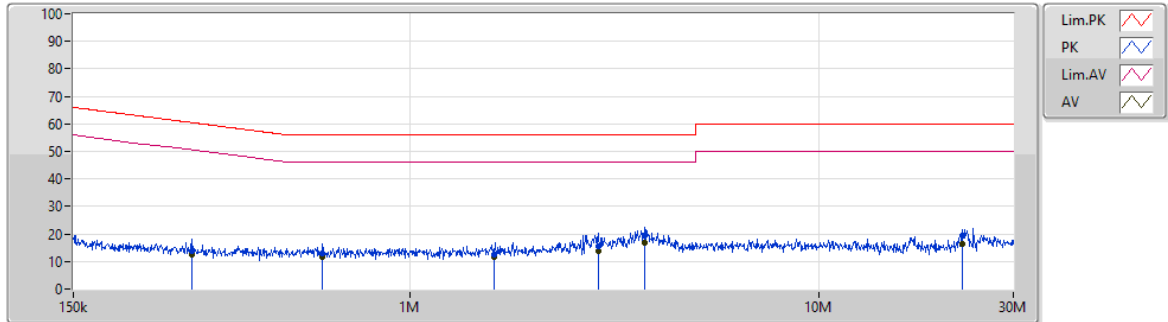


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	183.128k	15.85	64.34	-48.49	19.47	Neutral	-	-3.62	9.59	0.01	9.87			
AV	183.128k	14.02	54.34	-40.32	19.47	Neutral	-	-5.45	9.59	0.01	9.87			
QP	264.873k	14.48	61.28	-46.80	19.47	Neutral	-	-4.99	9.59	0.01	9.87			
AV	264.873k	12.87	51.28	-38.41	19.47	Neutral	-	-6.60	9.59	0.01	9.87			
QP	1.692M	13.41	56.00	-42.59	19.53	Neutral	-	-6.12	9.61	0.03	9.89			
AV	1.692M	12.36	46.00	-33.64	19.53	Neutral	-	-7.17	9.61	0.03	9.89			
QP	3.701M	19.07	56.00	-36.93	19.54	Neutral	-	-0.47	9.61	0.04	9.89			
AV	3.701M	16.68	46.00	-29.32	19.54	Neutral	"Worst"	-2.86	9.61	0.04	9.89			
QP	17.346M	17.47	60.00	-42.53	19.68	Neutral	-	-2.21	9.68	0.10	9.90			
AV	17.346M	15.14	50.00	-34.86	19.68	Neutral	-	-4.54	9.68	0.10	9.90			
QP	23.873M	17.60	60.00	-42.40	19.70	Neutral	-	-2.10	9.68	0.12	9.90			
AV	23.873M	15.41	50.00	-34.59	19.70	Neutral	-	-4.29	9.68	0.12	9.90			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	DC Power Supply Mode ; RX		

04/01/2019

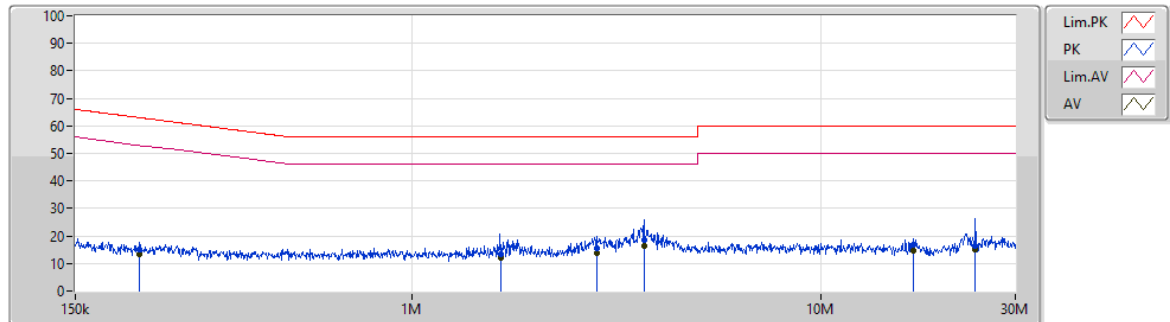


Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	293.329k	13.90	60.44	-46.54	19.48	Line	-	-5.58	9.59	0.01	9.88			
AV	293.329k	12.51	50.44	-37.93	19.48	Line	-	-6.97	9.59	0.01	9.88			
QP	611.446k	12.73	56.00	-43.27	19.48	Line	-	-6.75	9.59	0.01	9.88			
AV	611.446k	11.65	46.00	-34.35	19.48	Line	-	-7.83	9.59	0.01	9.88			
QP	1.613M	12.39	56.00	-43.61	19.53	Line	-	-7.14	9.61	0.03	9.89			
AV	1.613M	11.79	46.00	-34.21	19.53	Line	-	-7.74	9.61	0.03	9.89			
QP	2.889M	15.62	56.00	-40.38	19.56	Line	-	-3.94	9.63	0.04	9.89			
AV	2.889M	13.90	46.00	-32.10	19.56	Line	-	-5.66	9.63	0.04	9.89			
QP	3.76M	19.40	56.00	-36.60	19.56	Line	-	-0.16	9.63	0.04	9.89			
AV	3.76M	16.73	46.00	-29.27	19.56	Line	"Worst"	-2.83	9.63	0.04	9.89			
QP	22.575M	19.22	60.00	-40.78	19.62	Line	-	-0.40	9.60	0.12	9.90			
AV	22.575M	16.31	50.00	-33.69	19.62	Line	-	-3.31	9.60	0.12	9.90			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	DC Power Supply Mode ; RX		

04/01/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	214.845k	15.26	64.05	-48.79	19.47	Neutral	-	-4.21	9.59	0.01	9.87			
AV	214.845k	13.54	54.05	-40.51	19.47	Neutral	-	-5.93	9.59	0.01	9.87			
QP	1.646M	13.29	56.00	-42.71	19.51	Neutral	-	-6.22	9.60	0.03	9.88			
AV	1.646M	12.07	46.00	-33.93	19.51	Neutral	-	-7.44	9.60	0.03	9.88			
QP	2.832M	15.48	56.00	-40.52	19.54	Neutral	-	-4.06	9.61	0.04	9.89			
AV	2.832M	13.89	46.00	-32.11	19.54	Neutral	-	-5.65	9.61	0.04	9.89			
QP	3.701M	18.57	56.00	-37.43	19.54	Neutral	-	-0.97	9.61	0.04	9.89			
AV	3.701M	16.34	46.00	-29.66	19.54	Neutral	"Worst"	-3.20	9.61	0.04	9.89			
QP	16.868M	16.65	60.00	-43.35	19.68	Neutral	-	-3.03	9.68	0.10	9.90			
AV	16.868M	14.78	50.00	-35.22	19.68	Neutral	-	-4.90	9.68	0.10	9.90			
QP	23.968M	16.59	60.00	-43.41	19.70	Neutral	-	-3.11	9.68	0.12	9.90			
AV	23.968M	15.03	50.00	-34.97	19.70	Neutral	-	-4.67	9.68	0.12	9.90			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	10.05M	15.742M	15M7G1D	9.575M	14.993M
802.11g_Nss1,(6Mbps)_1TX	16.55M	16.617M	16M6D1D	16.55M	16.492M
802.11n HT20_Nss1,(MCS0)_1TX	17.8M	17.766M	17M8D1D	17.775M	17.666M

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;

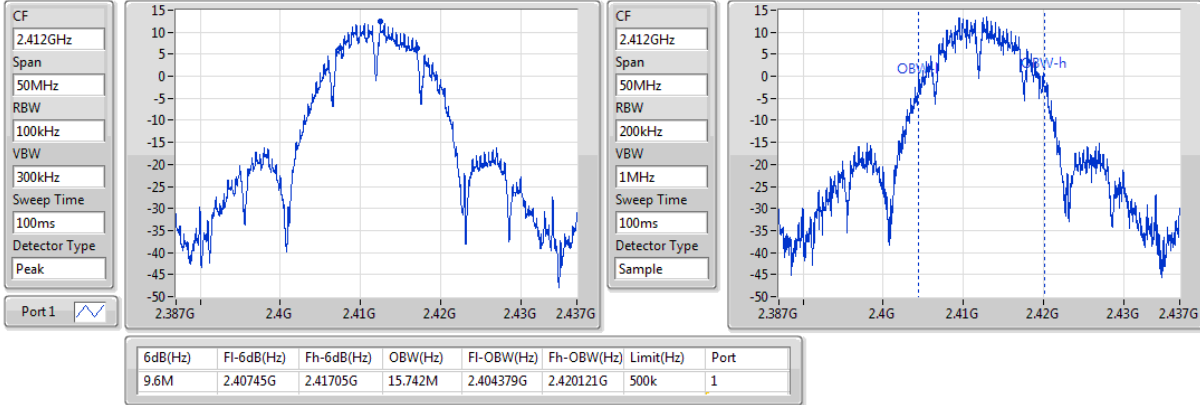
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	9.6M	15.742M
2437MHz_TnomVnom	Pass	500k	9.575M	15.042M
2462MHz_TnomVnom	Pass	500k	10.05M	14.993M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.55M	16.617M
2437MHz_TnomVnom	Pass	500k	16.55M	16.617M
2462MHz_TnomVnom	Pass	500k	16.55M	16.492M
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz_TnomVnom	Pass	500k	17.775M	17.741M
2437MHz_TnomVnom	Pass	500k	17.8M	17.766M
2462MHz_TnomVnom	Pass	500k	17.775M	17.666M

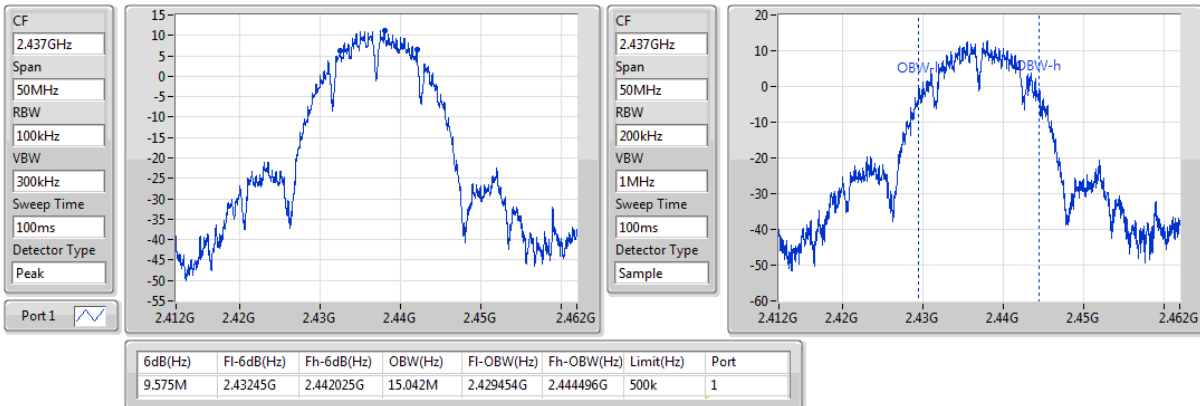
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_1TX
EBW
2412MHz

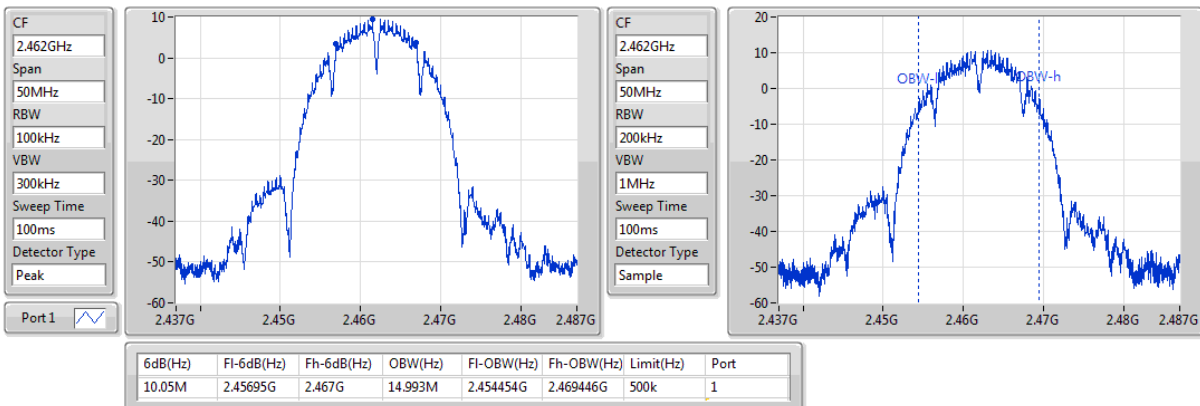
09/01/2019


802.11b_Nss1,(1Mbps)_1TX
EBW
2437MHz

09/01/2019

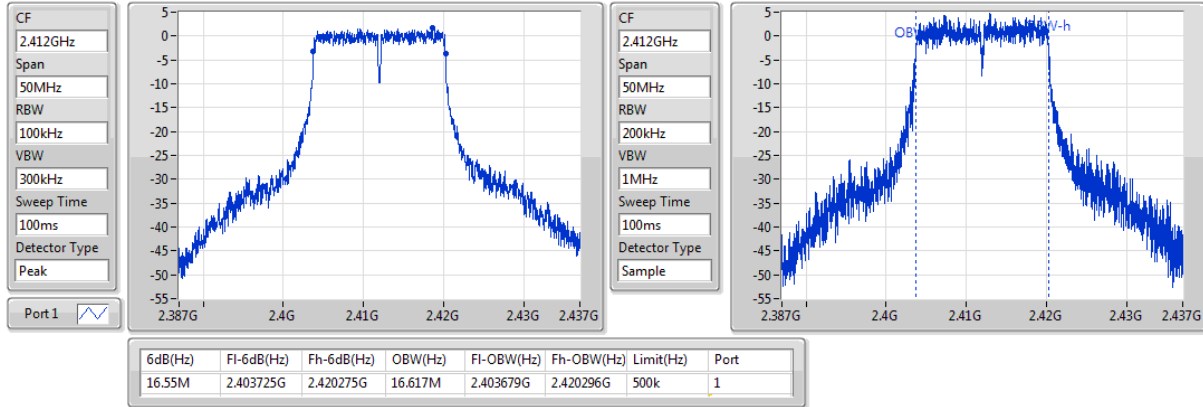

802.11b_Nss1,(1Mbps)_1TX
EBW
2462MHz

09/01/2019

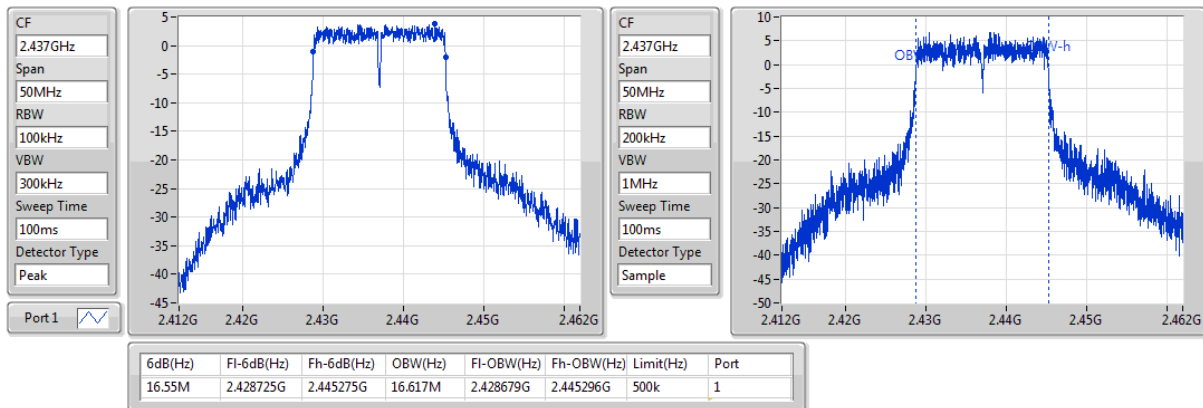


802.11g_Nss1,(6Mbps)_1TX
EBW
2412MHz

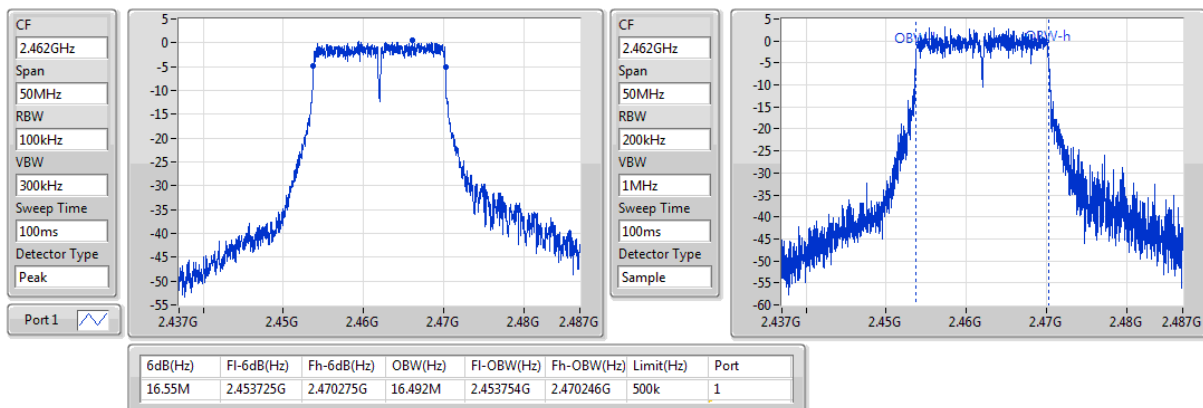
09/01/2019


802.11g_Nss1,(6Mbps)_1TX
EBW
2437MHz

09/01/2019

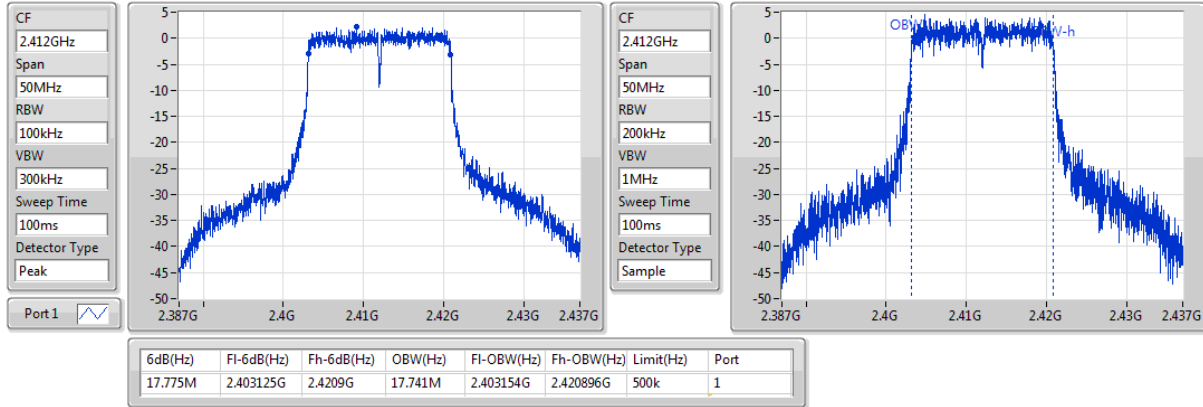

802.11g_Nss1,(6Mbps)_1TX
EBW
2462MHz

09/01/2019

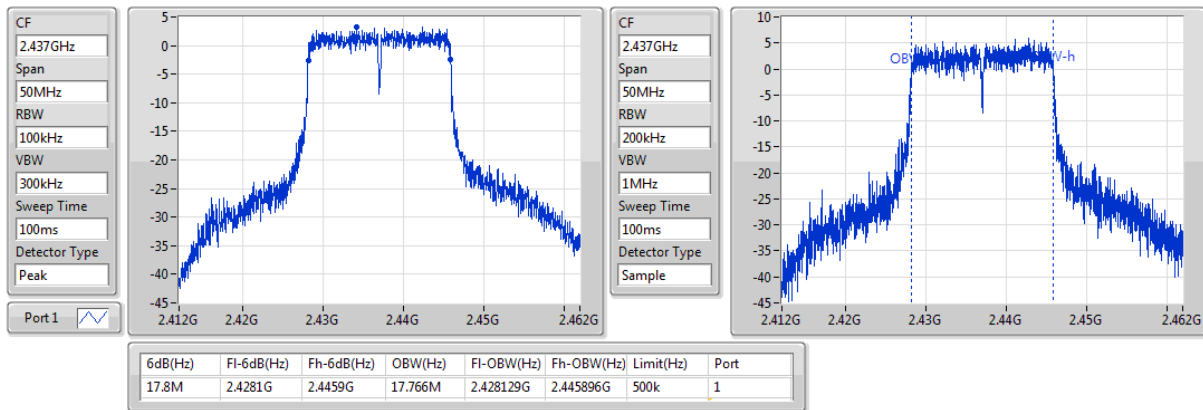


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2412MHz

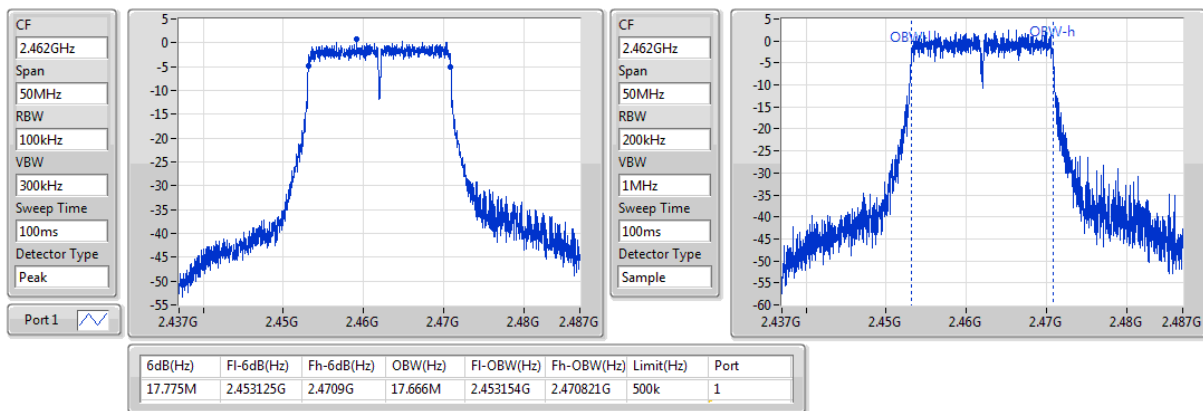
09/01/2019


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2437MHz

09/01/2019


802.11n HT20_Nss1,(MCS0)_1TX
EBW
2462MHz

09/01/2019



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	22.15	0.16406
802.11g_Nss1,(6Mbps)_1TX	18.08	0.06427
802.11n HT20_Nss1,(MCS0)_1TX	17.70	0.05888

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	22.15	22.15	30.00
2437MHz_TnomVnom	Pass	2.00	21.19	21.19	30.00
2442MHz_TnomVnom	Pass	2.00	21.19	21.19	30.00
2447MHz_TnomVnom	Pass	2.00	20.37	20.37	30.00
2452MHz_TnomVnom	Pass	2.00	20.68	20.68	30.00
2457MHz_TnomVnom	Pass	2.00	19.85	19.85	30.00
2462MHz_TnomVnom	Pass	2.00	19.35	19.35	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	16.00	16.00	30.00
2437MHz_TnomVnom	Pass	2.00	18.06	18.06	30.00
2442MHz_TnomVnom	Pass	2.00	18.08	18.08	30.00
2447MHz_TnomVnom	Pass	2.00	17.04	17.04	30.00
2452MHz_TnomVnom	Pass	2.00	16.72	16.72	30.00
2457MHz_TnomVnom	Pass	2.00	16.04	16.04	30.00
2462MHz_TnomVnom	Pass	2.00	14.83	14.83	30.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	16.54	16.54	30.00
2417MHz_TnomVnom	Pass	2.00	17.52	17.52	30.00
2437MHz_TnomVnom	Pass	2.00	17.61	17.61	30.00
2442MHz_TnomVnom	Pass	2.00	17.70	17.70	30.00
2447MHz_TnomVnom	Pass	2.00	16.93	16.93	30.00
2452MHz_TnomVnom	Pass	2.00	16.32	16.32	30.00
2457MHz_TnomVnom	Pass	2.00	16.00	16.00	30.00
2462MHz_TnomVnom	Pass	2.00	14.77	14.77	30.00

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

Note : Conducted average output power is for reference only

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	-8.13
802.11g_Nss1,(6Mbps)_1TX	-10.70
802.11n HT20_Nss1,(MCS0)_1TX	-10.56

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	-8.33	-8.33	8.00
2437MHz_TnomVnom	Pass	2.00	-8.13	-8.13	8.00
2462MHz_TnomVnom	Pass	2.00	-10.77	-10.77	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	-12.56	-12.56	8.00
2437MHz_TnomVnom	Pass	2.00	-10.70	-10.70	8.00
2462MHz_TnomVnom	Pass	2.00	-13.97	-13.97	8.00
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.00	-11.52	-11.52	8.00
2437MHz_TnomVnom	Pass	2.00	-10.56	-10.56	8.00
2462MHz_TnomVnom	Pass	2.00	-13.51	-13.51	8.00

DG = Directional Gain; RBW=3kHz;

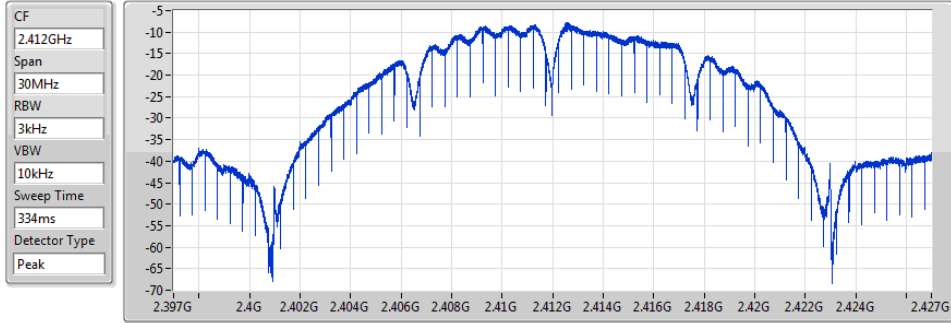
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

09/01/2019



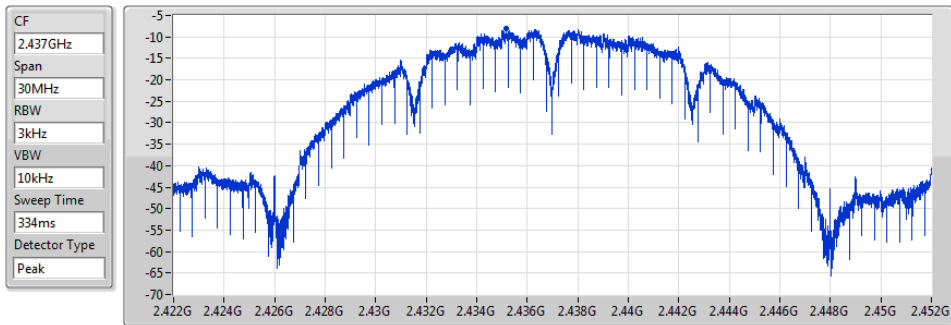
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-8.33	-8.33	-8.33

802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

09/01/2019



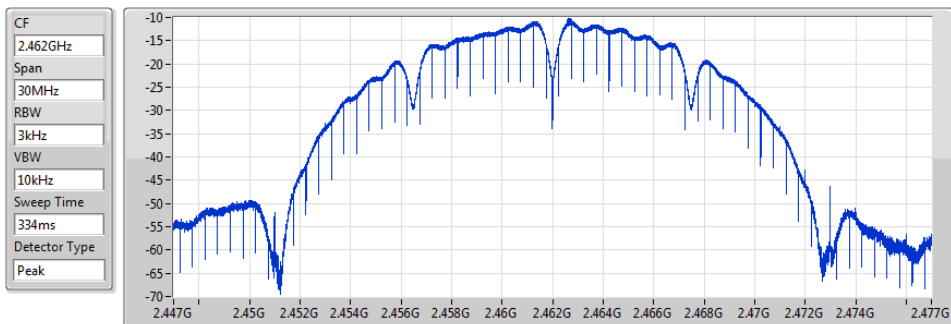
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-8.13	-8.13	-8.13

802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

09/01/2019



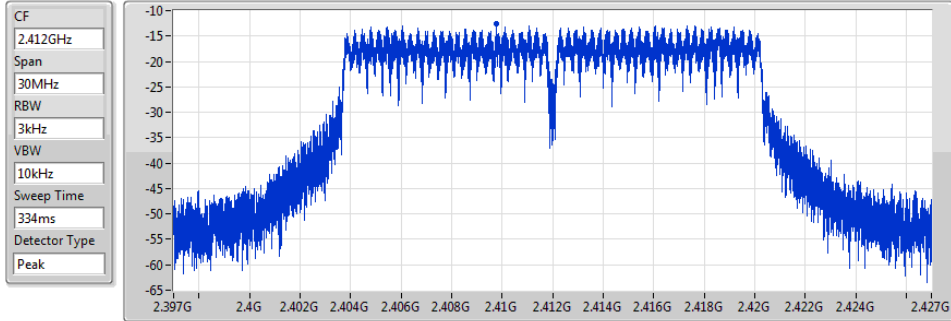
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-10.77	-10.77	-10.77

802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

09/01/2019



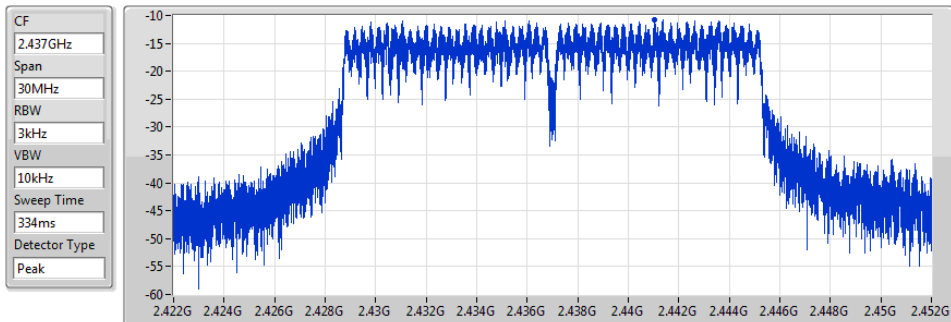
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.56	-12.56	-12.56

802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

09/01/2019



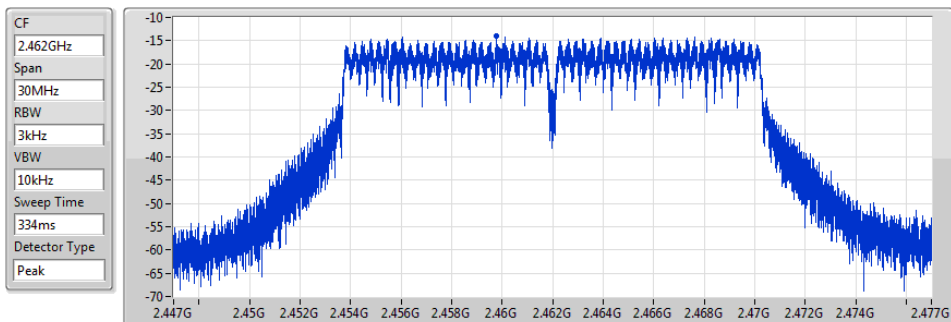
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-10.70	-10.70	-10.70

802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

09/01/2019



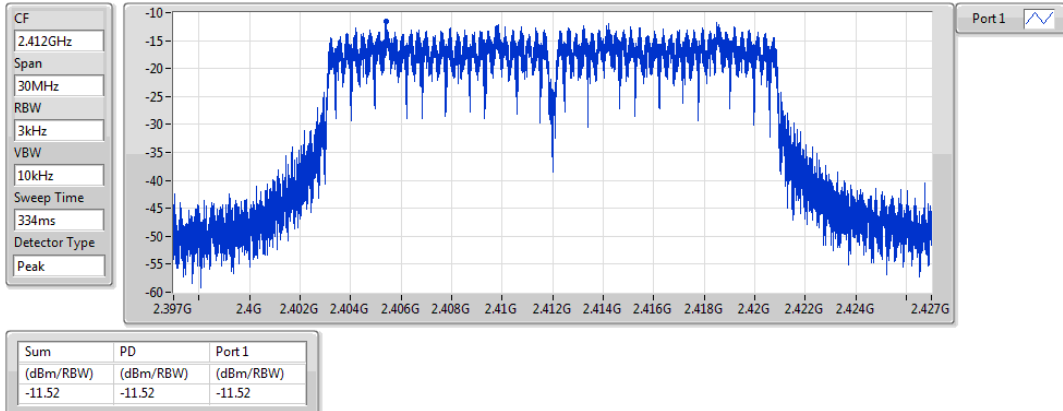
Sum	PD	Port 1
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-13.97	-13.97	-13.97

802.11n HT20_Nss1,(MCS0)_1TX

PSD

2412MHz

09/01/2019

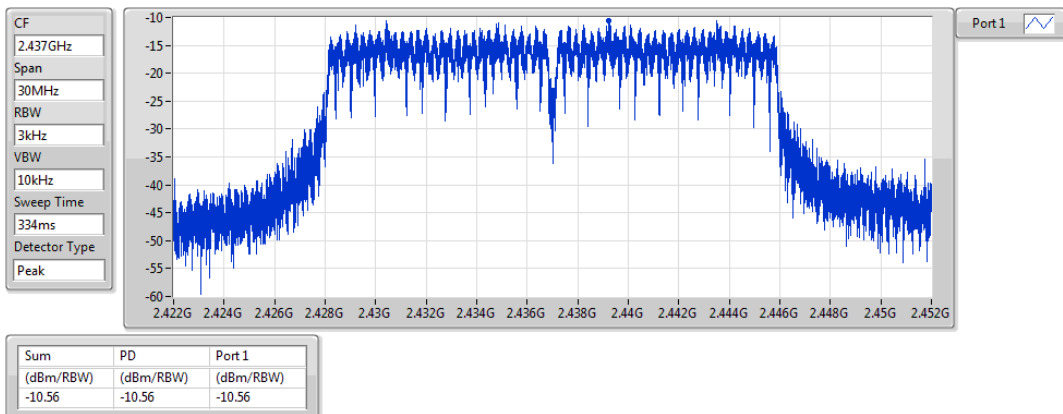


802.11n HT20_Nss1,(MCS0)_1TX

PSD

2437MHz

09/01/2019

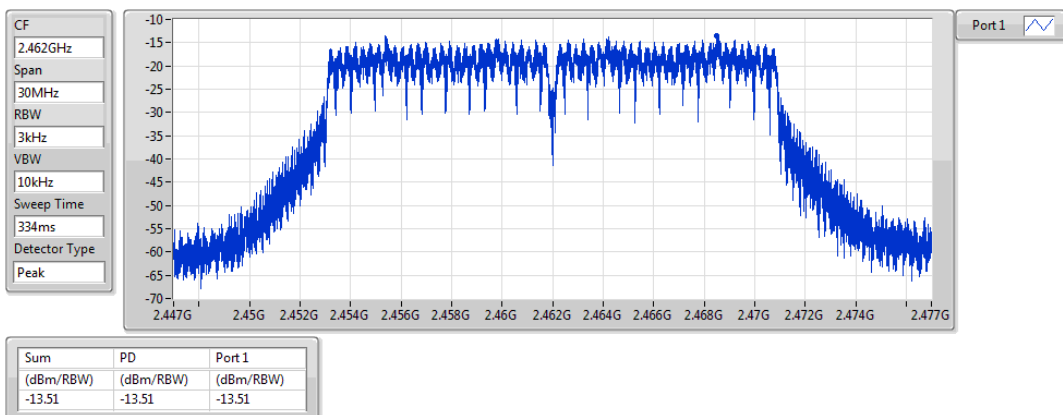


802.11n HT20_Nss1,(MCS0)_1TX

PSD

2462MHz

09/01/2019



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
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	2.41248G	11.72	-18.28	2.11127G	-44.90	2.39802G	-18.38	2.50396G	-41.45	24.41842G	-28.85	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43449G	3.35	-26.65	2.12817G	-45.13	2.39994G	-27.77	2.49344G	-43.66	24.74714G	-28.82	1
802.11n HT20_Nss1,(MCS0)_1TX	Pass	2.43762G	2.90	-27.10	2.12525G	-44.96	2.398G	-27.51	2.48688G	-43.04	24.48866G	-28.57	1

Result

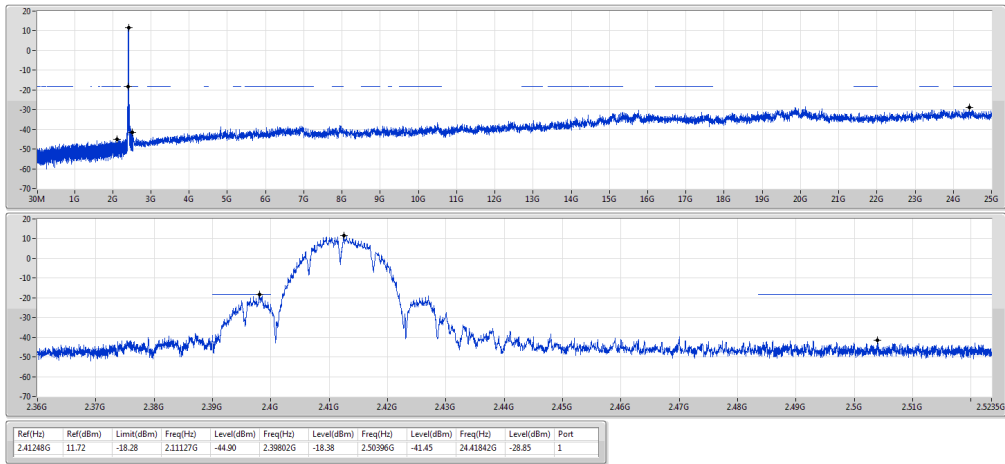
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.41248G	11.72	-18.28	2.11127G	-44.90	2.39802G	-18.38	2.50396G	-41.45	24.41842G	-28.85	1
2437MHz_TnomVnom	Pass	2.41248G	11.72	-18.28	2.19428G	-45.03	2.39802G	-42.58	2.49798G	-42.14	24.49709G	-28.87	1
2462MHz_TnomVnom	Pass	2.41248G	11.72	-18.28	2.12292G	-44.53	2.39124G	-44.50	2.48988G	-42.93	24.11218G	-29.42	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43449G	3.35	-26.65	2.12817G	-45.13	2.39994G	-27.77	2.49344G	-43.66	24.74714G	-28.82	1
2437MHz_TnomVnom	Pass	2.43449G	3.35	-26.65	2.13719G	-44.79	2.39574G	-41.99	2.48428G	-39.37	23.41822G	-29.57	1
2462MHz_TnomVnom	Pass	2.43449G	3.35	-26.65	2.13516G	-44.48	2.39116G	-43.90	2.48362G	-37.25	24.51956G	-28.24	1
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43762G	2.90	-27.10	2.12525G	-44.96	2.398G	-27.51	2.48688G	-43.04	24.48866G	-28.57	1
2437MHz_TnomVnom	Pass	2.43762G	2.90	-27.10	2.13166G	-44.23	2.39124G	-41.39	2.48666G	-39.20	23.19064G	-28.78	1
2462MHz_TnomVnom	Pass	2.43762G	2.90	-27.10	1.94089G	-44.87	2.395G	-44.25	2.48816G	-38.45	24.61228G	-28.83	1

802.11b_Nss1,(1Mbps)_1TX
2412MHz

CSE NdB

09/01/2019

Port 1

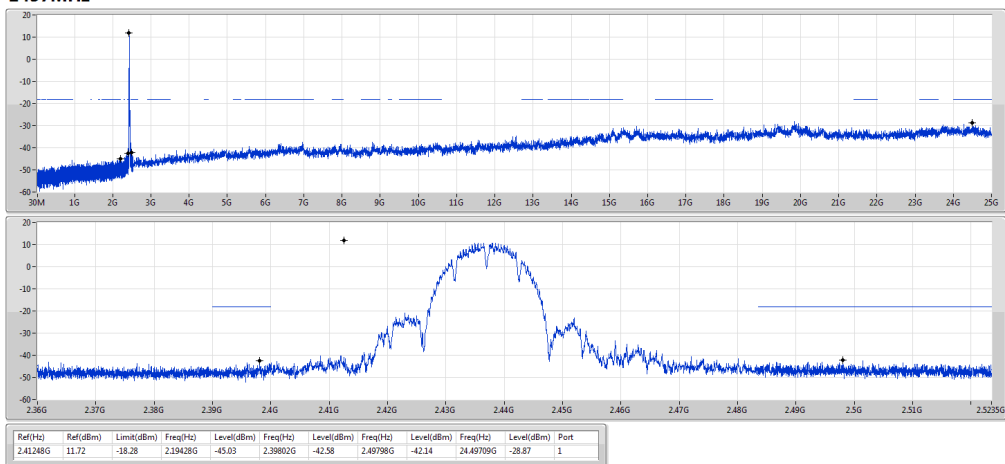


802.11b_Nss1,(1Mbps)_1TX
2437MHz

CSE NdB

09/01/2019

Port 1

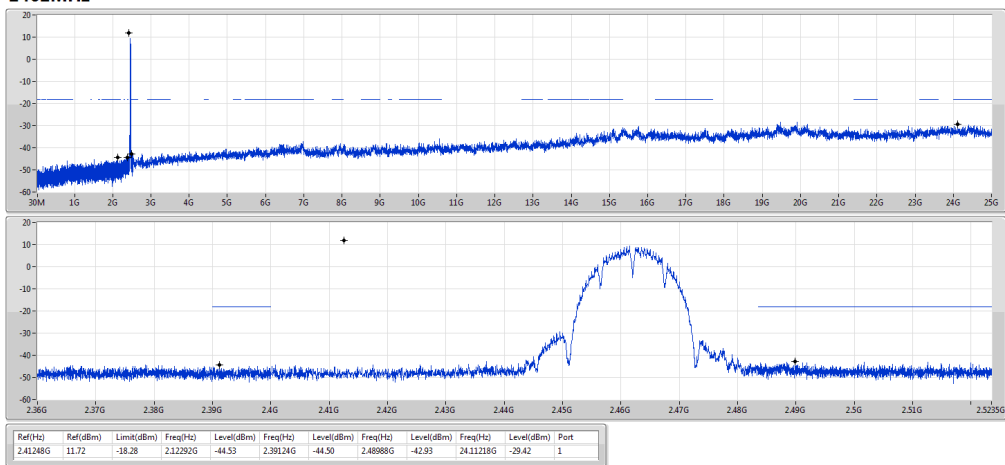


802.11b_Nss1,(1Mbps)_1TX
2462MHz

CSE NdB

09/01/2019

Port 1

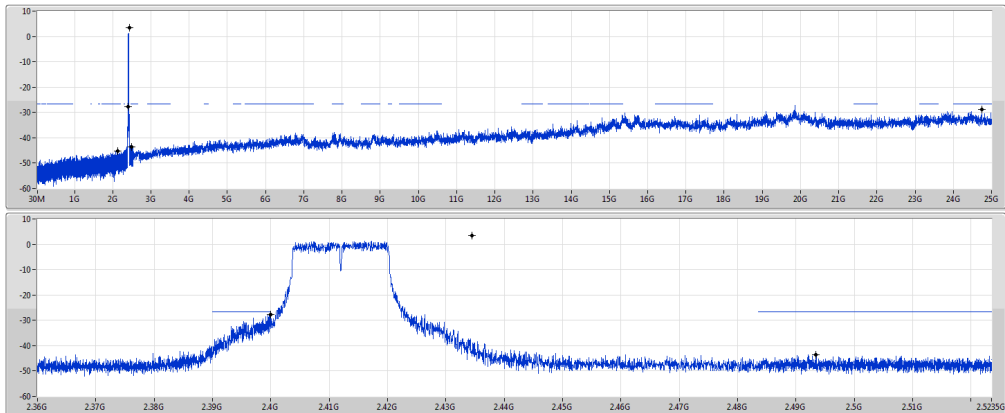


802.11g_Nss1,(6Mbps)_1TX 2412MHz

CSE NdB

09/01/2019

Port 1

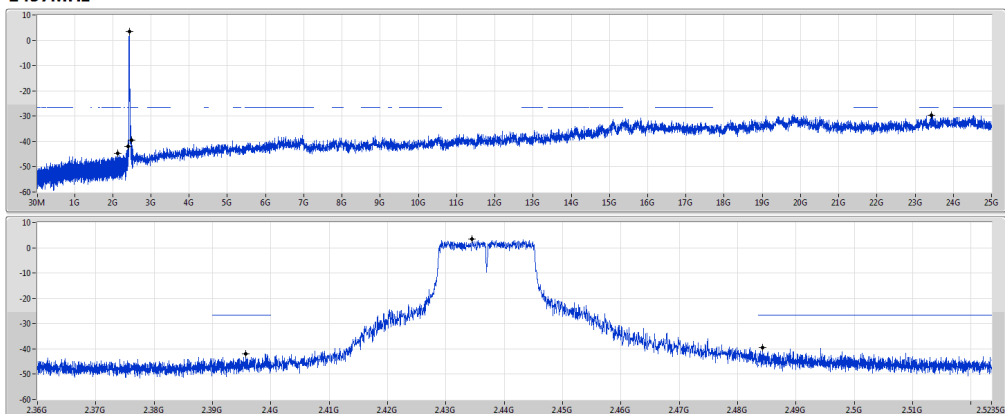


802.11g_Nss1,(6Mbps)_1TX 2437MHz

CSE NdB

09/01/2019

Port 1

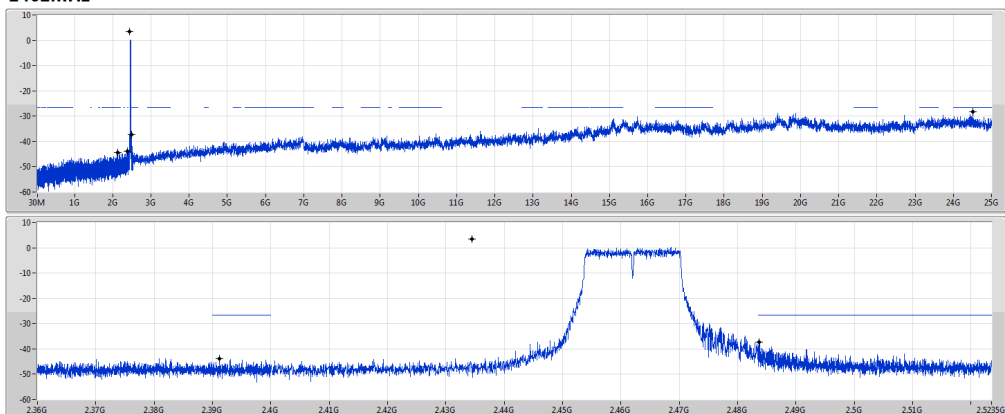


802.11g_Nss1,(6Mbps)_1TX 2462MHz

CSE NdB

09/01/2019

Port 1

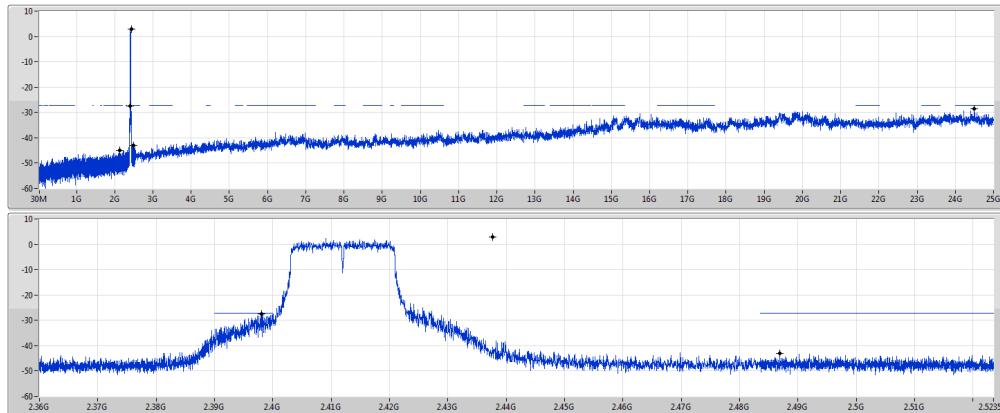


802.11n HT20_Nss1,(MCS0)_1TX
2412MHz

CSE NdB

09/01/2019

Port 1



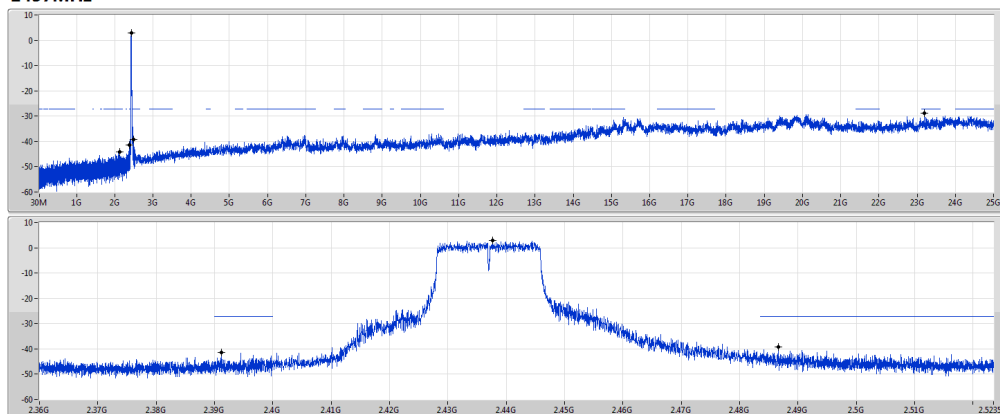
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43762G	2.90	-27.10	2.12525G	-44.96	2.398G	-27.51	2.48688G	-43.04	2.48886G	-28.57	1

802.11n HT20_Nss1,(MCS0)_1TX
2437MHz

CSE NdB

09/01/2019

Port 1



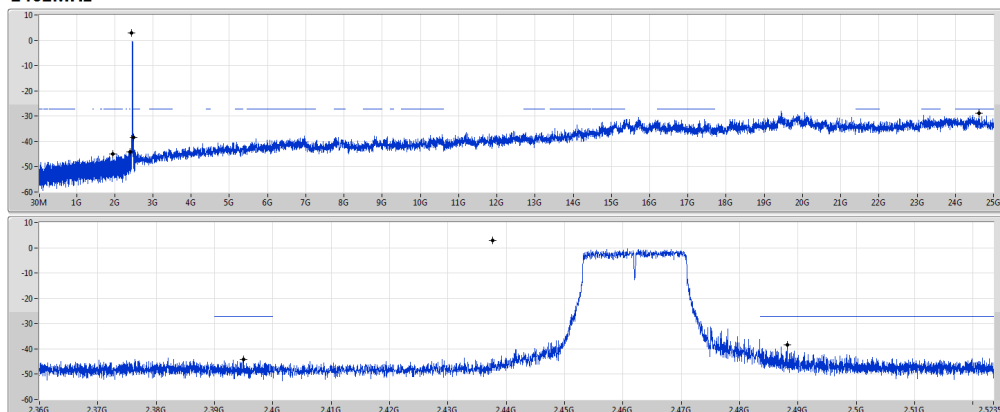
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43762G	2.90	-27.10	2.13166G	-44.23	2.39124G	-41.39	2.48666G	-39.20	2.519064G	-28.78	1

802.11n HT20_Nss1,(MCS0)_1TX
2462MHz

CSE NdB

09/01/2019

Port 1



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43762G	2.90	-27.10	1.94089G	-44.87	2.395G	-44.25	2.48816G	-38.45	2.461228G	-28.83	1

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	QP	885.54M	45.43	46.00	-0.57	2.23	3	Horizontal	241	2.27	-

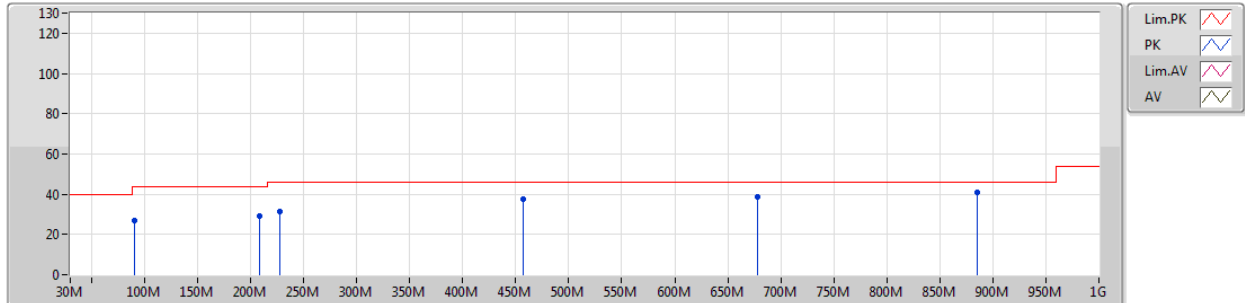
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	90.14M	27.11	43.50	-16.39	-12.55	3	Vertical	0	1.00	-
2437MHz	Pass	PK	208.48M	28.90	43.50	-14.60	-10.52	3	Vertical	0	1.00	-
2437MHz	Pass	PK	227.88M	31.15	46.00	-14.85	-9.63	3	Vertical	0	1.00	-
2437MHz	Pass	PK	456.8M	37.72	46.00	-8.28	-2.81	3	Vertical	0	1.00	-
2437MHz	Pass	PK	677.96M	38.48	46.00	-7.52	-0.27	3	Vertical	0	1.00	-
2437MHz	Pass	PK	885.54M	40.87	46.00	-5.13	2.23	3	Vertical	0	1.00	-
2437MHz	Pass	PK	156.1M	30.10	43.50	-13.40	-10.42	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	208.48M	38.95	43.50	-4.55	-10.52	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	227.88M	37.78	46.00	-8.22	-9.63	3	Horizontal	360	1.00	-
2437MHz	Pass	QP	311.3M	41.46	46.00	-4.54	-5.66	3	Horizontal	330	2.08	-
2437MHz	Pass	QP	324.88M	40.77	46.00	-5.23	-5.46	3	Horizontal	159	2.31	-
2437MHz	Pass	QP	885.54M	45.43	46.00	-0.57	2.23	3	Horizontal	241	2.27	-

802.11n HT20_Nss1,(MCS0)_1TX

15/01/2019

2437MHz_DC power supply

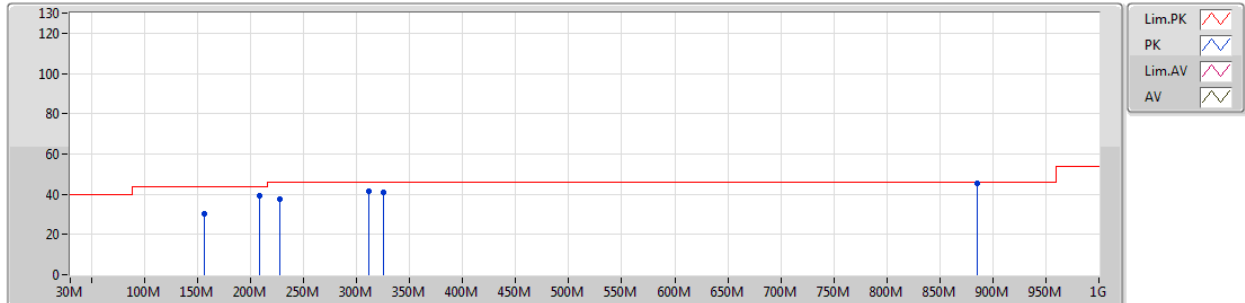


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	90.14M	27.11	43.50	-16.39	-12.55	3	Vertical	0	1.00	-
PK	208.48M	28.90	43.50	-14.60	-10.52	3	Vertical	0	1.00	-
PK	227.88M	31.15	46.00	-14.85	-9.63	3	Vertical	0	1.00	-
PK	456.8M	37.72	46.00	-8.28	-2.81	3	Vertical	0	1.00	-
PK	677.96M	38.48	46.00	-7.52	-0.27	3	Vertical	0	1.00	-
PK	885.54M	40.87	46.00	-5.13	2.23	3	Vertical	0	1.00	-

802.11n HT20_Nss1,(MCS0)_1TX

2437MHz_DC power supply

15/01/2019



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	156.1M	30.10	43.50	-13.40	-10.42	3	Horizontal	360	1.00	-
PK	208.48M	38.95	43.50	-4.55	-10.52	3	Horizontal	360	1.00	-
PK	227.88M	37.78	46.00	-8.22	-9.63	3	Horizontal	360	1.00	-
QP	311.3M	41.46	46.00	-4.54	-5.66	3	Horizontal	330	2.08	-
QP	324.88M	40.77	46.00	-5.23	-5.46	3	Horizontal	159	2.31	-
QP	885.54M	45.43	46.00	-0.57	2.23	3	Horizontal	241	2.27	-

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_1TX	Pass	AV	2.485G	53.89	54.00	-0.11	31.12	3	Horizontal	243	2.52	-
802.11g_Nss1,(6Mbps)_1TX	Pass	AV	2.4835G	53.49	54.00	-0.51	31.11	3	Horizontal	218	2.89	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	PK	2.39G	73.54	74.00	-0.46	30.77	3	Horizontal	235	2.57	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	47.93	54.00	-6.07	30.77	3	Vertical	159	2.77	-
2412MHz	Pass	AV	2.4112G	105.38	Inf	-Inf	30.85	3	Vertical	159	2.77	-
2412MHz	Pass	PK	2.3896G	57.43	74.00	-16.57	30.77	3	Vertical	159	2.77	-
2412MHz	Pass	PK	2.413G	107.76	Inf	-Inf	30.86	3	Vertical	159	2.77	-
2412MHz	Pass	AV	2.3892G	53.72	54.00	-0.28	30.77	3	Horizontal	243	2.70	-
2412MHz	Pass	AV	2.4112G	109.36	Inf	-Inf	30.85	3	Horizontal	243	2.70	-
2412MHz	Pass	PK	2.3896G	61.22	74.00	-12.78	30.77	3	Horizontal	243	2.70	-
2412MHz	Pass	PK	2.413G	111.75	Inf	-Inf	30.86	3	Horizontal	243	2.70	-
2412MHz	Pass	AV	4.82406G	45.09	54.00	-8.91	2.13	3	Vertical	131	1.92	-
2412MHz	Pass	PK	4.82394G	48.74	74.00	-25.26	2.13	3	Vertical	131	1.92	-
2412MHz	Pass	AV	4.824G	42.01	54.00	-11.99	2.13	3	Horizontal	232	2.05	-
2412MHz	Pass	PK	4.82406G	46.94	74.00	-27.06	2.13	3	Horizontal	232	2.05	-
2437MHz	Pass	AV	2.3894G	43.09	54.00	-10.91	30.77	3	Vertical	336	1.06	-
2437MHz	Pass	AV	2.4362G	99.09	Inf	-Inf	30.94	3	Vertical	336	1.06	-
2437MHz	Pass	AV	2.485G	44.69	54.00	-9.31	31.12	3	Vertical	336	1.06	-
2437MHz	Pass	PK	2.3686G	55.97	74.00	-18.03	30.70	3	Vertical	336	1.06	-
2437MHz	Pass	PK	2.4374G	101.43	Inf	-Inf	30.94	3	Vertical	336	1.06	-
2437MHz	Pass	PK	2.4926G	56.47	74.00	-17.53	31.14	3	Vertical	336	1.06	-
2437MHz	Pass	AV	2.3894G	49.65	54.00	-4.35	30.77	3	Horizontal	243	2.52	-
2437MHz	Pass	AV	2.4362G	109.35	Inf	-Inf	30.94	3	Horizontal	243	2.52	-
2437MHz	Pass	AV	2.485G	53.89	54.00	-0.11	31.12	3	Horizontal	243	2.52	-
2437MHz	Pass	PK	2.389G	58.29	74.00	-15.71	30.77	3	Horizontal	243	2.52	-
2437MHz	Pass	PK	2.4378G	111.72	Inf	-Inf	30.95	3	Horizontal	243	2.52	-
2437MHz	Pass	PK	2.485G	61.67	74.00	-12.33	31.12	3	Horizontal	243	2.52	-
2437MHz	Pass	AV	4.874G	36.34	54.00	-17.66	2.25	3	Vertical	127	1.98	-
2437MHz	Pass	PK	4.87436G	44.80	74.00	-29.20	2.25	3	Vertical	127	1.98	-
2437MHz	Pass	AV	4.87406G	36.67	54.00	-17.33	2.25	3	Horizontal	256	1.93	-
2437MHz	Pass	PK	4.87418G	44.79	74.00	-29.21	2.25	3	Horizontal	256	1.93	-
2442MHz	Pass	AV	2.4428G	104.67	Inf	-Inf	30.96	3	Vertical	158	2.84	-
2442MHz	Pass	AV	2.4898G	52.39	54.00	-1.61	31.13	3	Vertical	158	2.84	-
2442MHz	Pass	PK	2.4424G	107.11	Inf	-Inf	30.96	3	Vertical	158	2.84	-
2442MHz	Pass	PK	2.4896G	60.33	74.00	-13.67	31.13	3	Vertical	158	2.84	-
2442MHz	Pass	AV	2.4412G	106.88	Inf	-Inf	30.96	3	Horizontal	239	2.78	-
2442MHz	Pass	AV	2.4898G	53.18	54.00	-0.82	31.13	3	Horizontal	239	2.78	-
2442MHz	Pass	PK	2.4424G	109.30	Inf	-Inf	30.96	3	Horizontal	239	2.78	-
2442MHz	Pass	PK	2.49G	60.53	74.00	-13.47	31.13	3	Horizontal	239	2.78	-
2447MHz	Pass	AV	2.4462G	103.93	Inf	-Inf	30.98	3	Vertical	157	2.84	-
2447MHz	Pass	AV	2.4838G	47.44	54.00	-6.56	31.11	3	Vertical	157	2.84	-
2447MHz	Pass	PK	2.4474G	106.40	Inf	-Inf	30.98	3	Vertical	157	2.84	-
2447MHz	Pass	PK	2.484G	57.99	74.00	-16.01	31.12	3	Vertical	157	2.84	-
2447MHz	Pass	AV	2.4462G	106.42	Inf	-Inf	30.98	3	Horizontal	238	2.80	-
2447MHz	Pass	AV	2.4838G	48.98	54.00	-5.02	31.11	3	Horizontal	238	2.80	-
2447MHz	Pass	PK	2.4474G	108.98	Inf	-Inf	30.98	3	Horizontal	238	2.80	-
2447MHz	Pass	PK	2.484G	59.34	74.00	-14.66	31.12	3	Horizontal	238	2.80	-
2452MHz	Pass	AV	2.4528G	104.97	Inf	-Inf	31.00	3	Vertical	157	2.99	-
2452MHz	Pass	AV	2.4888G	52.52	54.00	-1.48	31.13	3	Vertical	157	2.99	-
2452MHz	Pass	PK	2.4524G	107.52	Inf	-Inf	31.00	3	Vertical	157	2.99	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2452MHz	Pass	PK	2.4892G	60.67	74.00	-13.33	31.13	3	Vertical	157	2.99	-
2452MHz	Pass	AV	2.4512G	106.58	Inf	-Inf	30.99	3	Horizontal	242	2.82	-
2452MHz	Pass	AV	2.4888G	52.11	54.00	-1.89	31.13	3	Horizontal	242	2.82	-
2452MHz	Pass	PK	2.4524G	109.10	Inf	-Inf	31.00	3	Horizontal	242	2.82	-
2452MHz	Pass	PK	2.4846G	60.57	74.00	-13.43	31.12	3	Horizontal	242	2.82	-
2457MHz	Pass	AV	2.4562G	104.03	Inf	-Inf	31.01	3	Vertical	136	2.99	-
2457MHz	Pass	AV	2.4835G	49.21	54.00	-4.79	31.11	3	Vertical	136	2.99	-
2457MHz	Pass	PK	2.4574G	106.55	Inf	-Inf	31.02	3	Vertical	136	2.99	-
2457MHz	Pass	PK	2.4918G	59.25	74.00	-14.75	31.14	3	Vertical	136	2.99	-
2457MHz	Pass	AV	2.4562G	105.88	Inf	-Inf	31.01	3	Horizontal	218	2.57	-
2457MHz	Pass	AV	2.4835G	50.81	54.00	-3.19	31.11	3	Horizontal	218	2.57	-
2457MHz	Pass	PK	2.4574G	108.42	Inf	-Inf	31.02	3	Horizontal	218	2.57	-
2457MHz	Pass	PK	2.4862G	60.04	74.00	-13.96	31.12	3	Horizontal	218	2.57	-
2462MHz	Pass	AV	2.4612G	103.85	Inf	-Inf	31.03	3	Vertical	168	2.99	-
2462MHz	Pass	AV	2.4835G	49.92	54.00	-4.08	31.11	3	Vertical	168	2.99	-
2462MHz	Pass	PK	2.4624G	106.31	Inf	-Inf	31.03	3	Vertical	168	2.99	-
2462MHz	Pass	PK	2.4884G	60.19	74.00	-13.81	31.13	3	Vertical	168	2.99	-
2462MHz	Pass	AV	2.4612G	108.36	Inf	-Inf	31.03	3	Horizontal	242	2.62	-
2462MHz	Pass	AV	2.4878G	53.36	54.00	-0.64	31.13	3	Horizontal	242	2.62	-
2462MHz	Pass	PK	2.4624G	110.75	Inf	-Inf	31.03	3	Horizontal	242	2.62	-
2462MHz	Pass	PK	2.4835G	61.85	74.00	-12.15	31.11	3	Horizontal	242	2.62	-
2462MHz	Pass	AV	4.924G	36.92	54.00	-17.08	2.38	3	Vertical	201	1.80	-
2462MHz	Pass	PK	4.924G	44.99	74.00	-29.01	2.38	3	Vertical	201	1.80	-
2462MHz	Pass	PK	4.92406G	44.10	74.00	-29.90	2.38	3	Horizontal	257	2.04	-
2462MHz	Pass	AV	4.92412G	32.46	54.00	-21.54	2.38	3	Horizontal	257	2.04	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	47.34	54.00	-6.66	30.77	3	Vertical	149	2.79	-
2412MHz	Pass	AV	2.4186G	93.75	Inf	-Inf	30.87	3	Vertical	149	2.79	-
2412MHz	Pass	PK	2.3892G	64.00	74.00	-10.00	30.77	3	Vertical	149	2.79	-
2412MHz	Pass	PK	2.4188G	103.16	Inf	-Inf	30.88	3	Vertical	149	2.79	-
2412MHz	Pass	AV	2.39G	53.15	54.00	-0.85	30.77	3	Horizontal	241	2.56	-
2412MHz	Pass	AV	2.4188G	98.11	Inf	-Inf	30.88	3	Horizontal	241	2.56	-
2412MHz	Pass	PK	2.389G	71.04	74.00	-2.96	30.77	3	Horizontal	241	2.56	-
2412MHz	Pass	PK	2.4188G	107.57	Inf	-Inf	30.88	3	Horizontal	241	2.56	-
2412MHz	Pass	AV	4.82406G	37.36	54.00	-16.64	2.13	3	Vertical	135	2.03	-
2412MHz	Pass	PK	4.824G	46.56	74.00	-27.44	2.13	3	Vertical	135	2.03	-
2412MHz	Pass	AV	4.824G	32.41	54.00	-21.59	2.13	3	Horizontal	216	2.25	-
2412MHz	Pass	PK	4.82436G	43.38	74.00	-30.62	2.13	3	Horizontal	216	2.25	-
2437MHz	Pass	AV	2.3898G	43.03	54.00	-10.97	30.77	3	Vertical	327	1.36	-
2437MHz	Pass	AV	2.4438G	91.31	Inf	-Inf	30.97	3	Vertical	327	1.36	-
2437MHz	Pass	AV	2.4835G	45.68	54.00	-8.32	31.11	3	Vertical	327	1.36	-
2437MHz	Pass	PK	2.3618G	56.43	74.00	-17.57	30.67	3	Vertical	327	1.36	-
2437MHz	Pass	PK	2.4438G	100.61	Inf	-Inf	30.97	3	Vertical	327	1.36	-
2437MHz	Pass	PK	2.4835G	59.96	74.00	-14.04	31.11	3	Vertical	327	1.36	-
2437MHz	Pass	AV	2.3898G	47.05	54.00	-6.95	30.77	3	Horizontal	234	2.90	-
2437MHz	Pass	AV	2.4438G	98.94	Inf	-Inf	30.97	3	Horizontal	234	2.90	-
2437MHz	Pass	AV	2.4835G	50.94	54.00	-3.06	31.11	3	Horizontal	234	2.90	-
2437MHz	Pass	PK	2.3866G	60.90	74.00	-13.10	30.76	3	Horizontal	234	2.90	-
2437MHz	Pass	PK	2.4438G	108.31	Inf	-Inf	30.97	3	Horizontal	234	2.90	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4846G	66.70	74.00	-7.30	31.12	3	Horizontal	234	2.90	-
2437MHz	Pass	AV	4.874G	37.14	54.00	-16.86	2.25	3	Vertical	136	1.80	-
2437MHz	Pass	PK	4.87406G	45.34	74.00	-28.66	2.25	3	Vertical	136	1.80	-
2437MHz	Pass	AV	4.874G	30.32	54.00	-23.68	2.25	3	Horizontal	152	1.03	-
2437MHz	Pass	PK	4.88624G	42.78	74.00	-31.22	2.29	3	Horizontal	152	1.03	-
2442MHz	Pass	AV	2.449G	96.12	Inf	-Inf	30.99	3	Vertical	138	2.99	-
2442MHz	Pass	AV	2.4835G	52.00	54.00	-2.00	31.11	3	Vertical	138	2.99	-
2442MHz	Pass	PK	2.4488G	105.48	Inf	-Inf	30.99	3	Vertical	138	2.99	-
2442MHz	Pass	PK	2.4858G	67.63	74.00	-6.37	31.12	3	Vertical	138	2.99	-
2442MHz	Pass	AV	2.444G	99.12	Inf	-Inf	30.97	3	Horizontal	218	2.89	-
2442MHz	Pass	AV	2.4835G	53.49	54.00	-0.51	31.11	3	Horizontal	218	2.89	-
2442MHz	Pass	PK	2.4434G	108.39	Inf	-Inf	30.96	3	Horizontal	218	2.89	-
2442MHz	Pass	PK	2.4856G	68.69	74.00	-5.31	31.12	3	Horizontal	218	2.89	-
2447MHz	Pass	AV	2.4534G	95.28	Inf	-Inf	31.00	3	Vertical	140	2.99	-
2447MHz	Pass	AV	2.4835G	50.88	54.00	-3.12	31.11	3	Vertical	140	2.99	-
2447MHz	Pass	PK	2.4538G	104.72	Inf	-Inf	31.00	3	Vertical	140	2.99	-
2447MHz	Pass	PK	2.4866G	65.45	74.00	-8.55	31.12	3	Vertical	140	2.99	-
2447MHz	Pass	AV	2.4528G	98.54	Inf	-Inf	31.00	3	Horizontal	222	2.80	-
2447MHz	Pass	AV	2.4835G	52.79	54.00	-1.21	31.11	3	Horizontal	222	2.80	-
2447MHz	Pass	PK	2.4538G	107.97	Inf	-Inf	31.00	3	Horizontal	222	2.80	-
2447MHz	Pass	PK	2.4835G	67.69	74.00	-6.31	31.11	3	Horizontal	222	2.80	-
2452MHz	Pass	AV	2.459G	95.07	Inf	-Inf	31.03	3	Vertical	144	2.99	-
2452MHz	Pass	AV	2.4835G	52.23	54.00	-1.77	31.11	3	Vertical	144	2.99	-
2452MHz	Pass	PK	2.4588G	104.48	Inf	-Inf	31.02	3	Vertical	144	2.99	-
2452MHz	Pass	PK	2.4848G	69.12	74.00	-4.88	31.12	3	Vertical	144	2.99	-
2452MHz	Pass	AV	2.459G	95.09	Inf	-Inf	31.03	3	Horizontal	252	2.46	-
2452MHz	Pass	AV	2.4835G	52.27	54.00	-1.73	31.11	3	Horizontal	252	2.46	-
2452MHz	Pass	PK	2.4588G	104.49	Inf	-Inf	31.02	3	Horizontal	252	2.46	-
2452MHz	Pass	PK	2.4844G	68.78	74.00	-5.22	31.12	3	Horizontal	252	2.46	-
2457MHz	Pass	AV	2.464G	94.73	Inf	-Inf	31.04	3	Vertical	143	2.99	-
2457MHz	Pass	AV	2.4835G	52.00	54.00	-2.00	31.11	3	Vertical	143	2.99	-
2457MHz	Pass	PK	2.4638G	104.15	Inf	-Inf	31.04	3	Vertical	143	2.99	-
2457MHz	Pass	PK	2.484G	69.65	74.00	-4.35	31.12	3	Vertical	143	2.99	-
2457MHz	Pass	AV	2.4638G	95.33	Inf	-Inf	31.04	3	Horizontal	253	2.47	-
2457MHz	Pass	AV	2.4835G	52.40	54.00	-1.60	31.11	3	Horizontal	253	2.47	-
2457MHz	Pass	PK	2.4638G	104.76	Inf	-Inf	31.04	3	Horizontal	253	2.47	-
2457MHz	Pass	PK	2.484G	70.31	74.00	-3.69	31.12	3	Horizontal	253	2.47	-
2462MHz	Pass	AV	2.4688G	93.81	Inf	-Inf	31.06	3	Vertical	151	2.99	-
2462MHz	Pass	AV	2.4835G	51.52	54.00	-2.48	31.11	3	Vertical	151	2.99	-
2462MHz	Pass	PK	2.4688G	103.18	Inf	-Inf	31.06	3	Vertical	151	2.99	-
2462MHz	Pass	PK	2.4836G	71.03	74.00	-2.97	31.11	3	Vertical	151	2.99	-
2462MHz	Pass	AV	2.4688G	94.46	Inf	-Inf	31.06	3	Horizontal	259	2.21	-
2462MHz	Pass	AV	2.4835G	52.12	54.00	-1.88	31.11	3	Horizontal	259	2.21	-
2462MHz	Pass	PK	2.4688G	103.88	Inf	-Inf	31.06	3	Horizontal	259	2.21	-
2462MHz	Pass	PK	2.4836G	71.50	74.00	-2.50	31.11	3	Horizontal	259	2.21	-
2462MHz	Pass	AV	4.92406G	37.26	54.00	-16.74	2.38	3	Vertical	135	1.57	-
2462MHz	Pass	PK	4.92424G	45.09	74.00	-28.91	2.38	3	Vertical	135	1.57	-
2462MHz	Pass	AV	4.92394G	30.78	54.00	-23.22	2.38	3	Horizontal	223	2.48	-
2462MHz	Pass	PK	4.92622G	43.35	74.00	-30.65	2.39	3	Horizontal	223	2.48	-

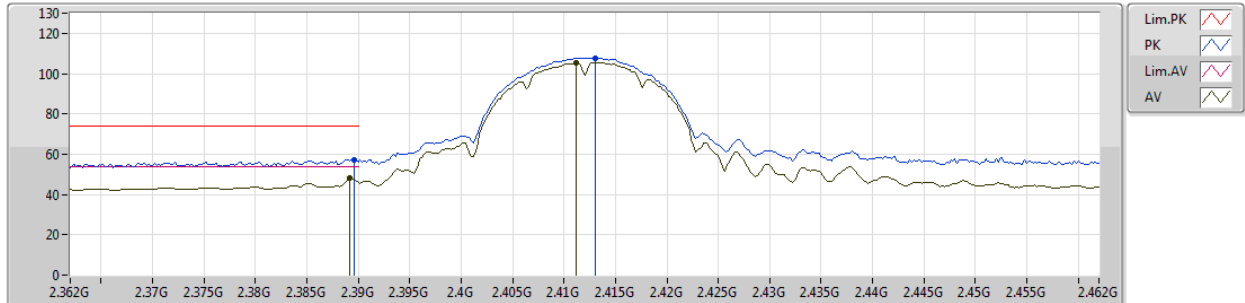
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	45.40	54.00	-8.60	30.77	3	Vertical	145	2.79	-
2412MHz	Pass	AV	2.4174G	92.23	Inf	-Inf	30.87	3	Vertical	145	2.79	-
2412MHz	Pass	PK	2.3898G	65.74	74.00	-8.26	30.77	3	Vertical	145	2.79	-
2412MHz	Pass	PK	2.4154G	101.40	Inf	-Inf	30.86	3	Vertical	145	2.79	-
2412MHz	Pass	AV	2.39G	50.81	54.00	-3.19	30.77	3	Horizontal	235	2.57	-
2412MHz	Pass	AV	2.4178G	96.43	Inf	-Inf	30.87	3	Horizontal	235	2.57	-
2412MHz	Pass	PK	2.39G	73.54	74.00	-0.46	30.77	3	Horizontal	235	2.57	-
2412MHz	Pass	PK	2.4152G	105.67	Inf	-Inf	30.86	3	Horizontal	235	2.57	-
2412MHz	Pass	AV	4.824G	38.07	54.00	-15.93	2.13	3	Vertical	132	2.04	-
2412MHz	Pass	PK	4.824G	47.65	74.00	-26.35	2.13	3	Vertical	132	2.04	-
2412MHz	Pass	AV	4.82406G	32.96	54.00	-21.04	2.13	3	Horizontal	223	2.24	-
2412MHz	Pass	PK	4.82298G	42.97	74.00	-31.03	2.13	3	Horizontal	223	2.24	-
2417MHz	Pass	AV	2.39G	45.28	54.00	-8.72	30.77	3	Vertical	142	2.79	-
2417MHz	Pass	AV	2.4224G	93.63	Inf	-Inf	30.89	3	Vertical	142	2.79	-
2417MHz	Pass	PK	2.3896G	62.12	74.00	-11.88	30.77	3	Vertical	142	2.79	-
2417MHz	Pass	PK	2.414G	102.97	Inf	-Inf	30.86	3	Vertical	142	2.79	-
2417MHz	Pass	AV	2.39G	49.75	54.00	-4.25	30.77	3	Horizontal	229	2.59	-
2417MHz	Pass	AV	2.4224G	97.63	Inf	-Inf	30.89	3	Horizontal	229	2.59	-
2417MHz	Pass	PK	2.3886G	68.98	74.00	-5.02	30.77	3	Horizontal	229	2.59	-
2417MHz	Pass	PK	2.414G	106.87	Inf	-Inf	30.86	3	Horizontal	229	2.59	-
2437MHz	Pass	AV	2.3898G	43.03	54.00	-10.97	30.77	3	Vertical	326	1.35	-
2437MHz	Pass	AV	2.4426G	90.49	Inf	-Inf	30.96	3	Vertical	326	1.35	-
2437MHz	Pass	AV	2.4835G	45.75	54.00	-8.25	31.11	3	Vertical	326	1.35	-
2437MHz	Pass	PK	2.3498G	56.16	74.00	-17.84	30.63	3	Vertical	326	1.35	-
2437MHz	Pass	PK	2.4402G	99.84	Inf	-Inf	30.95	3	Vertical	326	1.35	-
2437MHz	Pass	PK	2.4846G	61.70	74.00	-12.30	31.12	3	Vertical	326	1.35	-
2437MHz	Pass	AV	2.3898G	47.62	54.00	-6.38	30.77	3	Horizontal	233	2.89	-
2437MHz	Pass	AV	2.4426G	99.02	Inf	-Inf	30.96	3	Horizontal	233	2.89	-
2437MHz	Pass	AV	2.4835G	51.76	54.00	-2.24	31.11	3	Horizontal	233	2.89	-
2437MHz	Pass	PK	2.3882G	63.79	74.00	-10.21	30.77	3	Horizontal	233	2.89	-
2437MHz	Pass	PK	2.4342G	108.61	Inf	-Inf	30.94	3	Horizontal	233	2.89	-
2437MHz	Pass	PK	2.4846G	68.75	74.00	-5.25	31.12	3	Horizontal	233	2.89	-
2437MHz	Pass	AV	4.87406G	37.33	54.00	-16.67	2.25	3	Vertical	131	1.83	-
2437MHz	Pass	PK	4.87382G	44.98	74.00	-29.02	2.25	3	Vertical	131	1.83	-
2437MHz	Pass	AV	4.87406G	30.97	54.00	-23.03	2.25	3	Horizontal	211	1.98	-
2437MHz	Pass	PK	4.87388G	42.88	74.00	-31.12	2.25	3	Horizontal	211	1.98	-
2442MHz	Pass	AV	2.449G	95.11	Inf	-Inf	30.99	3	Vertical	146	2.99	-
2442MHz	Pass	AV	2.4835G	51.11	54.00	-2.89	31.11	3	Vertical	146	2.99	-
2442MHz	Pass	PK	2.4496G	104.50	Inf	-Inf	30.99	3	Vertical	146	2.99	-
2442MHz	Pass	PK	2.485G	67.47	74.00	-6.53	31.12	3	Vertical	146	2.99	-
2442MHz	Pass	AV	2.4474G	98.76	Inf	-Inf	30.98	3	Horizontal	228	2.80	-
2442MHz	Pass	AV	2.4835G	53.00	54.00	-1.00	31.11	3	Horizontal	228	2.80	-
2442MHz	Pass	PK	2.439G	108.25	Inf	-Inf	30.95	3	Horizontal	228	2.80	-
2442MHz	Pass	PK	2.484G	69.81	74.00	-4.19	31.12	3	Horizontal	228	2.80	-
2447MHz	Pass	AV	2.4524G	94.90	Inf	-Inf	31.00	3	Vertical	145	2.99	-
2447MHz	Pass	AV	2.4835G	51.16	54.00	-2.84	31.11	3	Vertical	145	2.99	-
2447MHz	Pass	PK	2.4534G	104.25	Inf	-Inf	31.00	3	Vertical	145	2.99	-
2447MHz	Pass	PK	2.4846G	68.05	74.00	-5.95	31.12	3	Vertical	145	2.99	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2447MHz	Pass	AV	2.4524G	98.09	Inf	-Inf	31.00	3	Horizontal	229	2.81	-
2447MHz	Pass	AV	2.4835G	52.74	54.00	-1.26	31.11	3	Horizontal	229	2.81	-
2447MHz	Pass	PK	2.444G	107.48	Inf	-Inf	30.97	3	Horizontal	229	2.81	-
2447MHz	Pass	PK	2.4844G	69.93	74.00	-4.07	31.12	3	Horizontal	229	2.81	-
2452MHz	Pass	AV	2.4574G	94.21	Inf	-Inf	31.02	3	Vertical	148	2.99	-
2452MHz	Pass	AV	2.4835G	51.16	54.00	-2.84	31.11	3	Vertical	148	2.99	-
2452MHz	Pass	PK	2.4492G	103.73	Inf	-Inf	30.99	3	Vertical	148	2.99	-
2452MHz	Pass	PK	2.4842G	70.29	74.00	-3.71	31.12	3	Vertical	148	2.99	-
2452MHz	Pass	AV	2.4602G	97.44	Inf	-Inf	31.03	3	Horizontal	229	2.74	-
2452MHz	Pass	AV	2.4835G	53.03	54.00	-0.97	31.11	3	Horizontal	229	2.74	-
2452MHz	Pass	PK	2.4594G	106.87	Inf	-Inf	31.03	3	Horizontal	229	2.74	-
2452MHz	Pass	PK	2.4838G	72.75	74.00	-1.25	31.11	3	Horizontal	229	2.74	-
2457MHz	Pass	AV	2.4626G	94.39	Inf	-Inf	31.04	3	Vertical	148	2.99	-
2457MHz	Pass	AV	2.4835G	52.11	54.00	-1.89	31.11	3	Vertical	148	2.99	-
2457MHz	Pass	PK	2.4538G	103.80	Inf	-Inf	31.00	3	Vertical	148	2.99	-
2457MHz	Pass	PK	2.4888G	70.41	74.00	-3.59	31.13	3	Vertical	148	2.99	-
2457MHz	Pass	AV	2.4626G	94.74	Inf	-Inf	31.04	3	Horizontal	259	2.21	-
2457MHz	Pass	AV	2.4835G	52.36	54.00	-1.64	31.11	3	Horizontal	259	2.21	-
2457MHz	Pass	PK	2.4538G	104.00	Inf	-Inf	31.00	3	Horizontal	259	2.21	-
2457MHz	Pass	PK	2.484G	70.53	74.00	-3.47	31.12	3	Horizontal	259	2.21	-
2462MHz	Pass	AV	2.4674G	93.23	Inf	-Inf	31.05	3	Vertical	148	2.99	-
2462MHz	Pass	AV	2.4835G	52.03	54.00	-1.97	31.11	3	Vertical	148	2.99	-
2462MHz	Pass	PK	2.459G	102.69	Inf	-Inf	31.03	3	Vertical	148	2.99	-
2462MHz	Pass	PK	2.4835G	70.60	74.00	-3.40	31.11	3	Vertical	148	2.99	-
2462MHz	Pass	AV	2.4674G	93.72	Inf	-Inf	31.05	3	Horizontal	257	2.47	-
2462MHz	Pass	AV	2.4835G	52.28	54.00	-1.72	31.11	3	Horizontal	257	2.47	-
2462MHz	Pass	PK	2.4688G	103.16	Inf	-Inf	31.06	3	Horizontal	257	2.47	-
2462MHz	Pass	PK	2.4838G	70.61	74.00	-3.39	31.11	3	Horizontal	257	2.47	-
2462MHz	Pass	AV	4.924G	37.22	54.00	-16.78	2.38	3	Vertical	131	1.82	-
2462MHz	Pass	PK	4.92418G	45.99	74.00	-28.01	2.38	3	Vertical	131	1.82	-
2462MHz	Pass	AV	4.92406G	30.52	54.00	-23.48	2.38	3	Horizontal	145	1.37	-
2462MHz	Pass	PK	4.92556G	43.29	74.00	-30.71	2.39	3	Horizontal	145	1.37	-

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2412MHz_TX

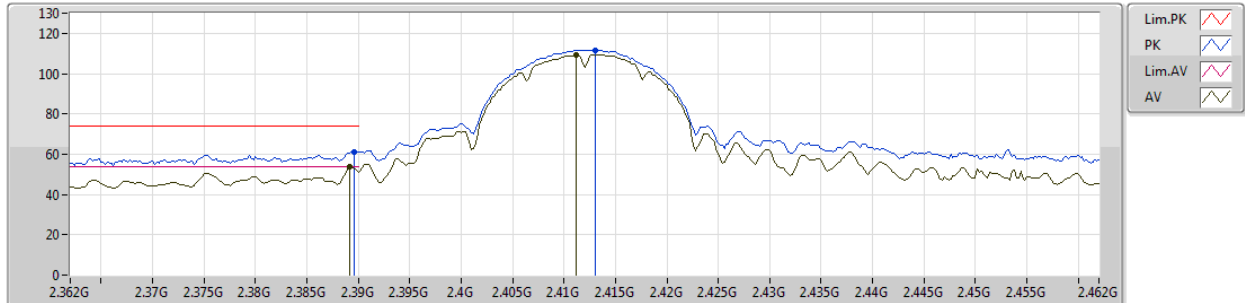


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	47.93	54.00	-6.07	30.77	3	Vertical	159	2.77	-
AV	2.4112G	105.38	Inf	-Inf	30.85	3	Vertical	159	2.77	-
PK	2.3896G	57.43	74.00	-16.57	30.77	3	Vertical	159	2.77	-
PK	2.413G	107.76	Inf	-Inf	30.86	3	Vertical	159	2.77	-

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2412MHz_TX

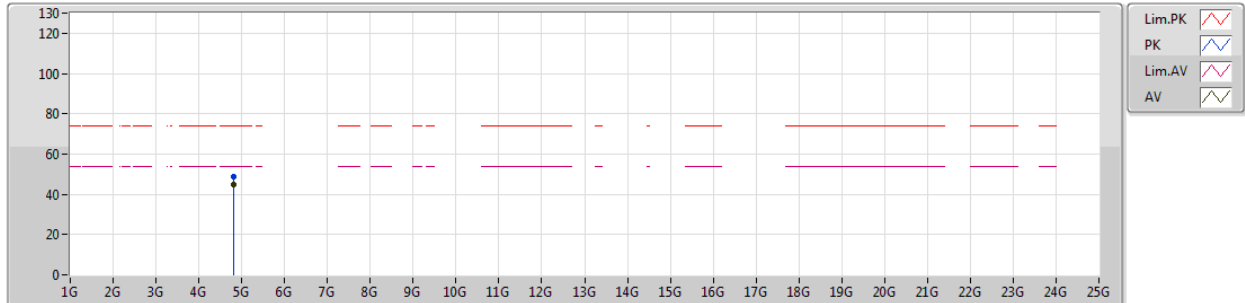


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	53.72	54.00	-0.28	30.77	3	Horizontal	243	2.70	-
AV	2.4112G	109.36	Inf	-Inf	30.85	3	Horizontal	243	2.70	-
PK	2.3896G	61.22	74.00	-12.78	30.77	3	Horizontal	243	2.70	-
PK	2.413G	111.75	Inf	-Inf	30.86	3	Horizontal	243	2.70	-

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2412MHz_TX

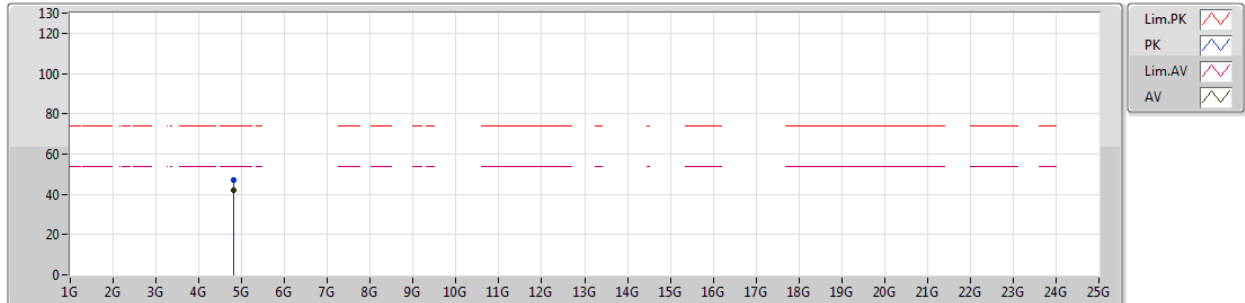


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	4.82406G	45.09	54.00	-8.91	2.13	3	Vertical	131	1.92	-								
PK	4.82394G	48.74	74.00	-25.26	2.13	3	Vertical	131	1.92	-								

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2412MHz_TX

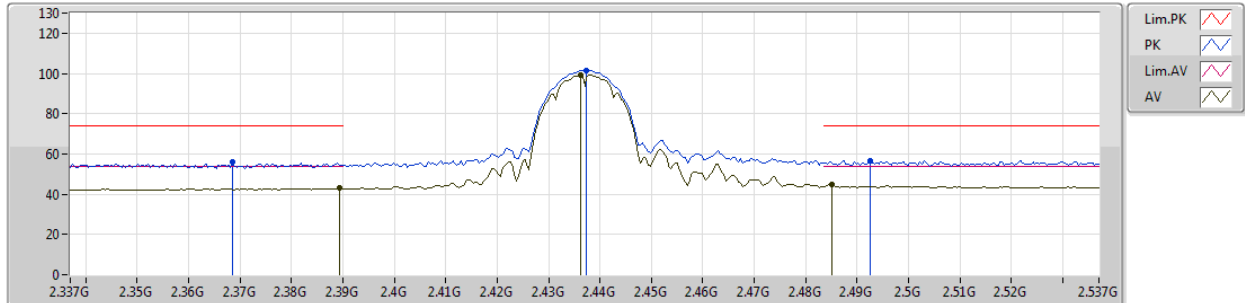


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	4.824G	42.01	54.00	-11.99	2.13	3	Horizontal	232	2.05	-								
PK	4.82406G	46.94	74.00	-27.06	2.13	3	Horizontal	232	2.05	-								

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2437MHz_TX

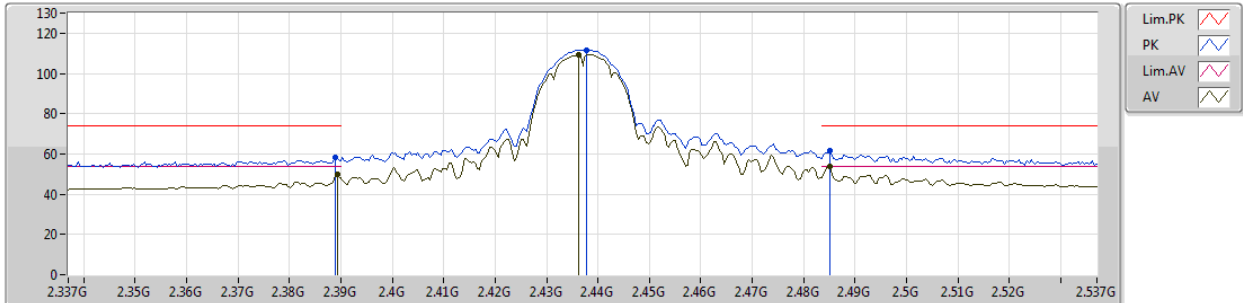


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	43.09	54.00	-10.91	30.77	3	Vertical	336	1.06	-
AV	2.4362G	99.09	Inf	-Inf	30.94	3	Vertical	336	1.06	-
AV	2.485G	44.69	54.00	-9.31	31.12	3	Vertical	336	1.06	-
PK	2.3686G	55.97	74.00	-18.03	30.70	3	Vertical	336	1.06	-
PK	2.4374G	101.43	Inf	-Inf	30.94	3	Vertical	336	1.06	-
PK	2.4926G	56.47	74.00	-17.53	31.14	3	Vertical	336	1.06	-

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2437MHz_TX

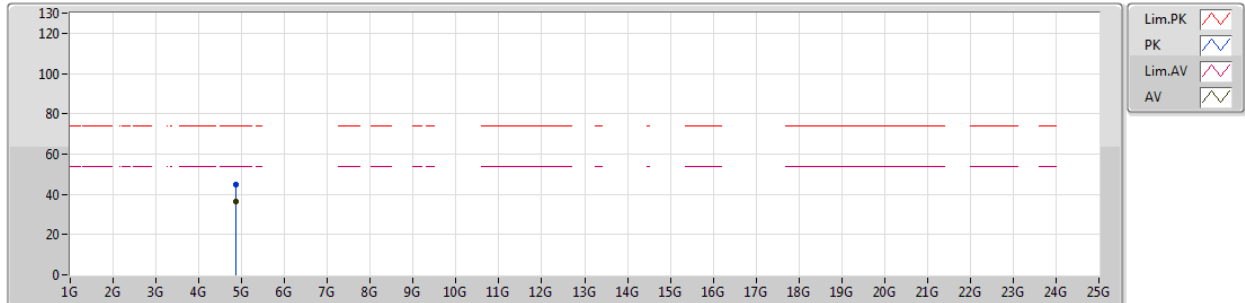


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	49.65	54.00	-4.35	30.77	3	Horizontal	243	2.52	-
AV	2.4362G	109.35	Inf	-Inf	30.94	3	Horizontal	243	2.52	-
AV	2.485G	53.89	54.00	-0.11	31.12	3	Horizontal	243	2.52	-
PK	2.389G	58.29	74.00	-15.71	30.77	3	Horizontal	243	2.52	-
PK	2.4378G	111.72	Inf	-Inf	30.95	3	Horizontal	243	2.52	-
PK	2.485G	61.67	74.00	-12.33	31.12	3	Horizontal	243	2.52	-

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2437MHz_TX

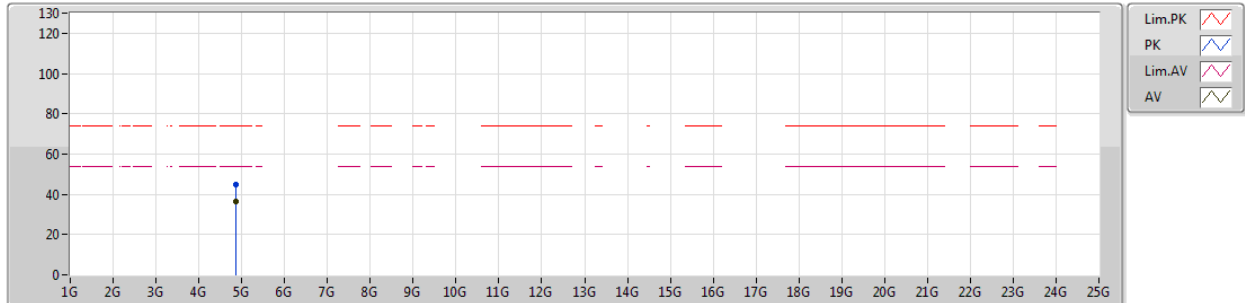


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	4.874G	36.34	54.00	-17.66	2.25	3	Vertical	127	1.98	-								
PK	4.87436G	44.80	74.00	-29.20	2.25	3	Vertical	127	1.98	-								

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2437MHz_TX

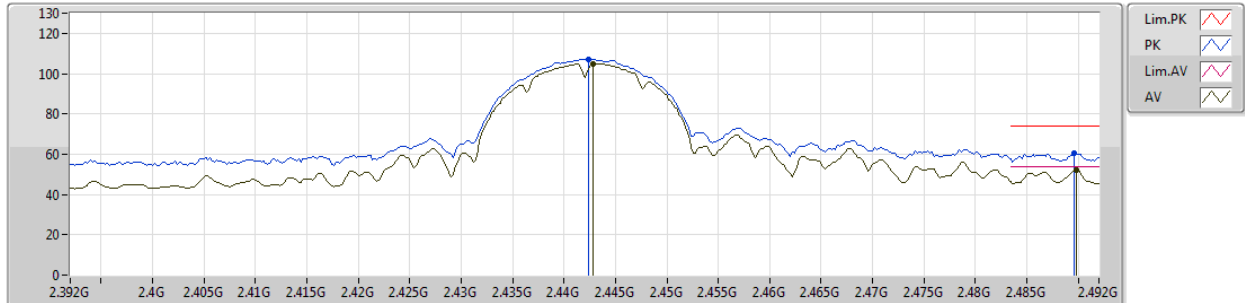


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87406G	36.67	54.00	-17.33	2.25	3	Horizontal	256	1.93	-
PK	4.87418G	44.79	74.00	-29.21	2.25	3	Horizontal	256	1.93	-

802.11b_Nss1,(1Mbps)_1TX

03/01/2019

2442MHz_TX

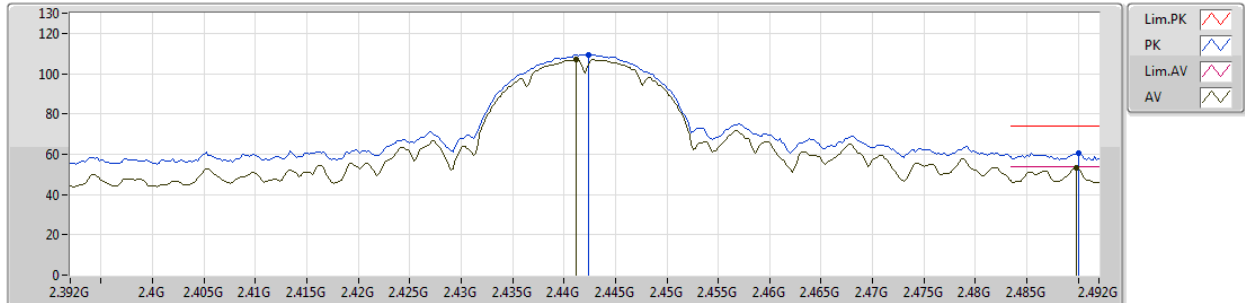


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4428G	104.67	Inf	-Inf	30.96	3	Vertical	158	2.84	-
AV	2.4898G	52.39	54.00	-1.61	31.13	3	Vertical	158	2.84	-
PK	2.4424G	107.11	Inf	-Inf	30.96	3	Vertical	158	2.84	-
PK	2.4896G	60.33	74.00	-13.67	31.13	3	Vertical	158	2.84	-

802.11b_Nss1,(1Mbps)_1TX

03/01/2019

2442MHz_TX

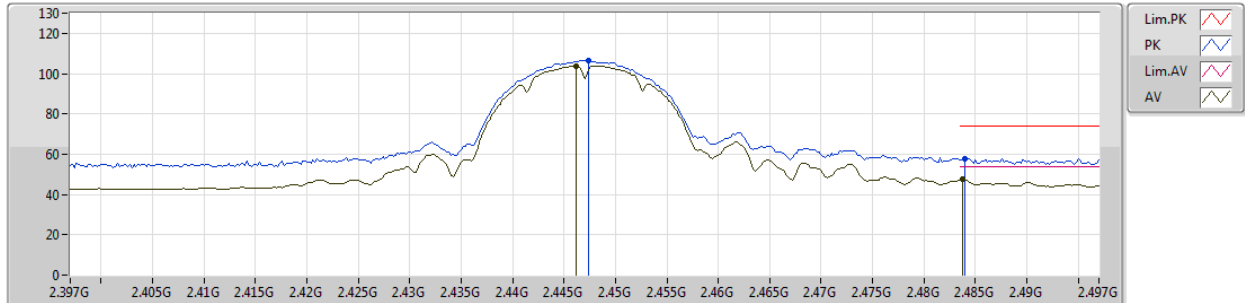


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4412G	106.88	Inf	-Inf	30.96	3	Horizontal	239	2.78	-
AV	2.4898G	53.18	54.00	-0.82	31.13	3	Horizontal	239	2.78	-
PK	2.4424G	109.30	Inf	-Inf	30.96	3	Horizontal	239	2.78	-
PK	2.49G	60.53	74.00	-13.47	31.13	3	Horizontal	239	2.78	-

802.11b_Nss1,(1Mbps)_1TX

03/01/2019

2447MHz_TX

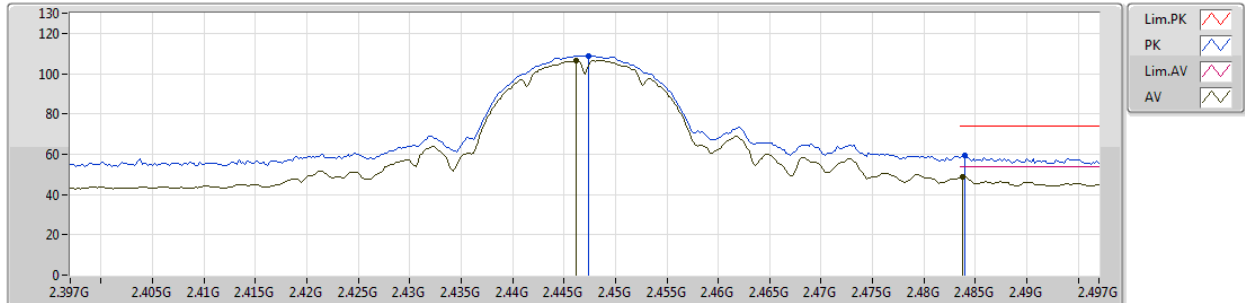


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4462G	103.93	Inf	-Inf	30.98	3	Vertical	157	2.84	-
AV	2.4838G	47.44	54.00	-6.56	31.11	3	Vertical	157	2.84	-
PK	2.4474G	106.40	Inf	-Inf	30.98	3	Vertical	157	2.84	-
PK	2.484G	57.99	74.00	-16.01	31.12	3	Vertical	157	2.84	-

802.11b_Nss1,(1Mbps)_1TX

03/01/2019

2447MHz_TX

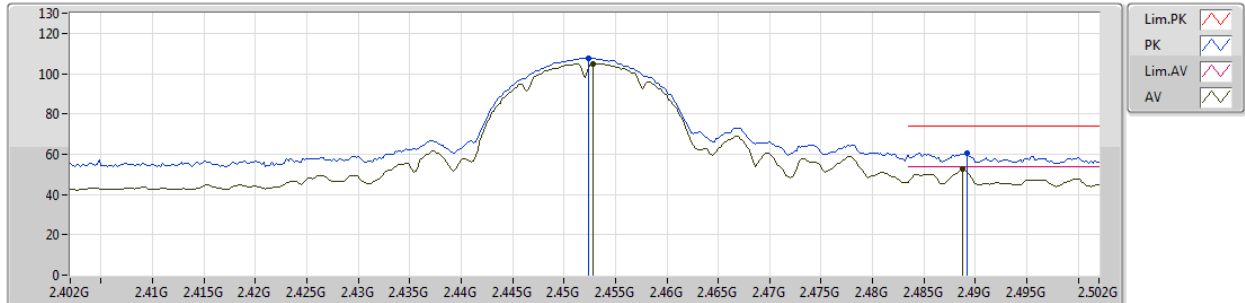


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4462G	106.42	Inf	-Inf	30.98	3	Horizontal	238	2.80	-
AV	2.4838G	48.98	54.00	-5.02	31.11	3	Horizontal	238	2.80	-
PK	2.4474G	108.98	Inf	-Inf	30.98	3	Horizontal	238	2.80	-
PK	2.484G	59.34	74.00	-14.66	31.12	3	Horizontal	238	2.80	-

802.11b_Nss1,(1Mbps)_1TX

03/01/2019

2452MHz_TX

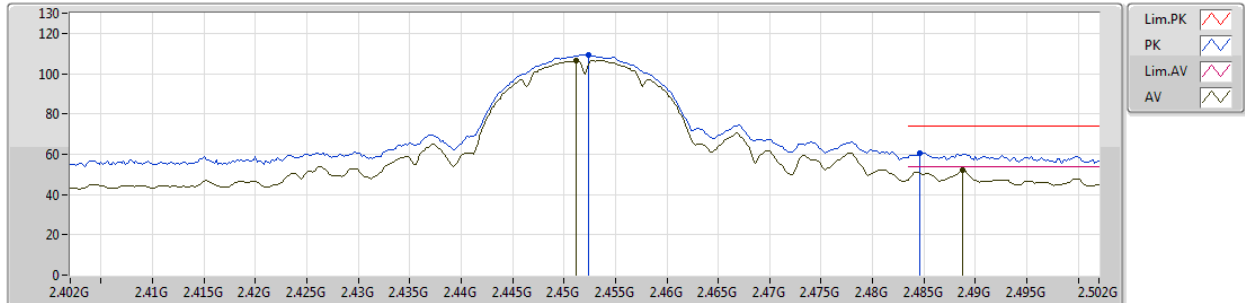


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4528G	104.97	Inf	-Inf	31.00	3	Vertical	157	2.99	-
AV	2.4888G	52.52	54.00	-1.48	31.13	3	Vertical	157	2.99	-
PK	2.4524G	107.52	Inf	-Inf	31.00	3	Vertical	157	2.99	-
PK	2.4892G	60.67	74.00	-13.33	31.13	3	Vertical	157	2.99	-

802.11b_Nss1,(1Mbps)_1TX

03/01/2019

2452MHz_TX

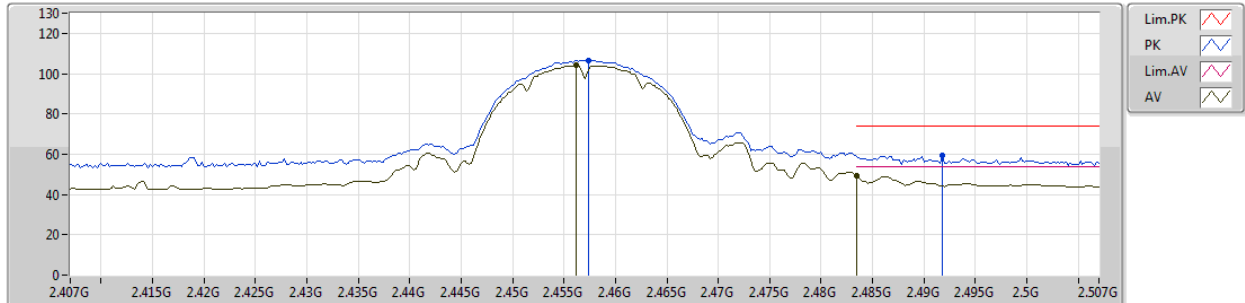


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4512G	106.58	Inf	-Inf	30.99	3	Horizontal	242	2.82	-
AV	2.4888G	52.11	54.00	-1.89	31.13	3	Horizontal	242	2.82	-
PK	2.4524G	109.10	Inf	-Inf	31.00	3	Horizontal	242	2.82	-
PK	2.4846G	60.57	74.00	-13.43	31.12	3	Horizontal	242	2.82	-

802.11b_Nss1,(1Mbps)_1TX

03/01/2019

2457MHz_TX

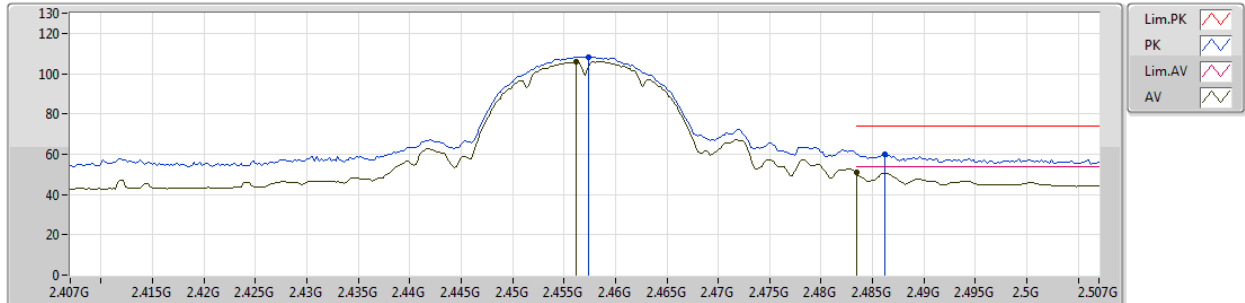


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4562G	104.03	Inf	-Inf	31.01	3	Vertical	136	2.99	-
AV	2.4835G	49.21	54.00	-4.79	31.11	3	Vertical	136	2.99	-
PK	2.4574G	106.55	Inf	-Inf	31.02	3	Vertical	136	2.99	-
PK	2.4918G	59.25	74.00	-14.75	31.14	3	Vertical	136	2.99	-

802.11b_Nss1,(1Mbps)_1TX

03/01/2019

2457MHz_TX

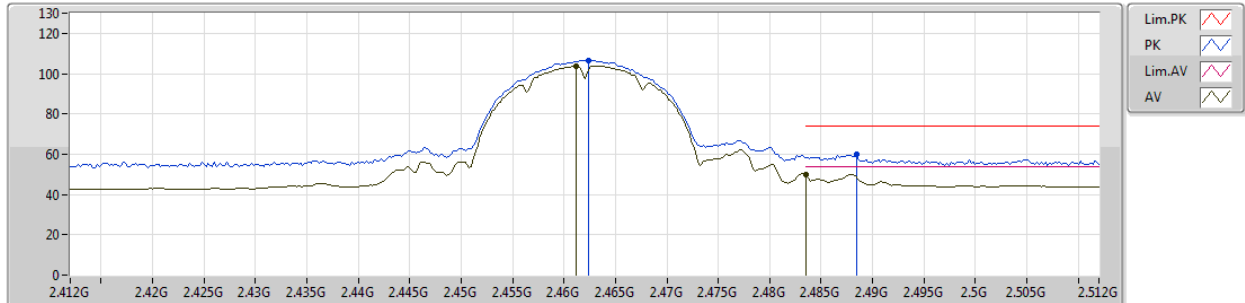


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4562G	105.88	Inf	-Inf	31.01	3	Horizontal	218	2.57	-
AV	2.4835G	50.81	54.00	-3.19	31.11	3	Horizontal	218	2.57	-
PK	2.4574G	108.42	Inf	-Inf	31.02	3	Horizontal	218	2.57	-
PK	2.4862G	60.04	74.00	-13.96	31.12	3	Horizontal	218	2.57	-

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2462MHz_TX

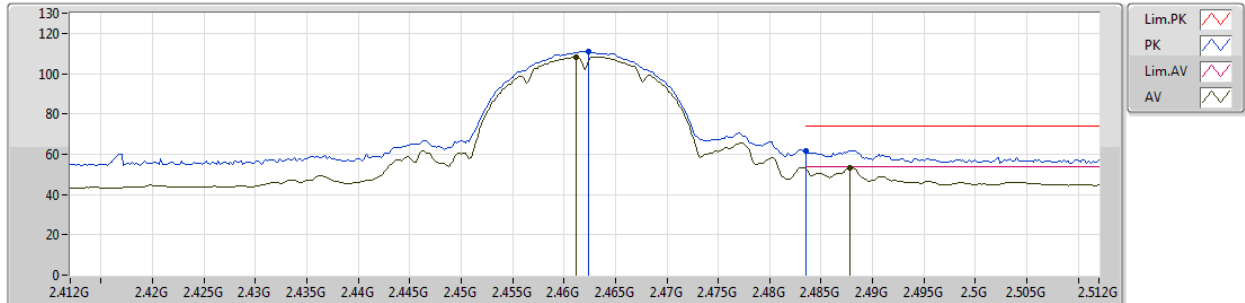


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4612G	103.85	Inf	-Inf	31.03	3	Vertical	168	2.99	-
AV	2.4835G	49.92	54.00	-4.08	31.11	3	Vertical	168	2.99	-
PK	2.4624G	106.31	Inf	-Inf	31.03	3	Vertical	168	2.99	-
PK	2.4884G	60.19	74.00	-13.81	31.13	3	Vertical	168	2.99	-

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2462MHz_TX

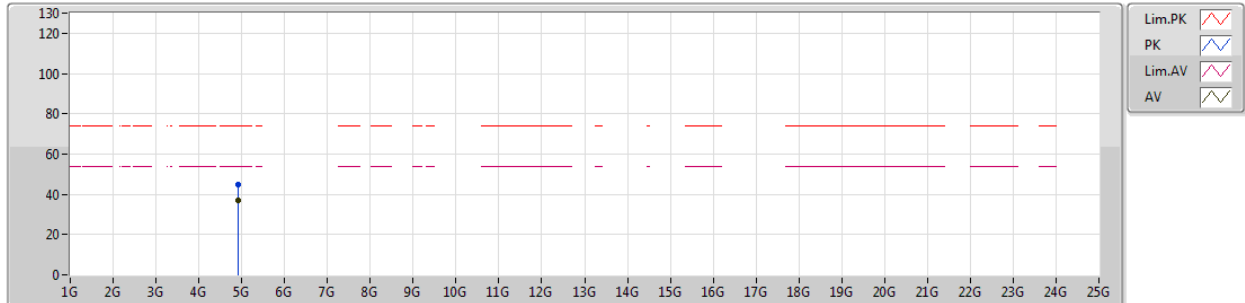


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4612G	108.36	Inf	-Inf	31.03	3	Horizontal	242	2.62	-
AV	2.4878G	53.36	54.00	-0.64	31.13	3	Horizontal	242	2.62	-
PK	2.4624G	110.75	Inf	-Inf	31.03	3	Horizontal	242	2.62	-
PK	2.4835G	61.85	74.00	-12.15	31.11	3	Horizontal	242	2.62	-

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2462MHz_TX

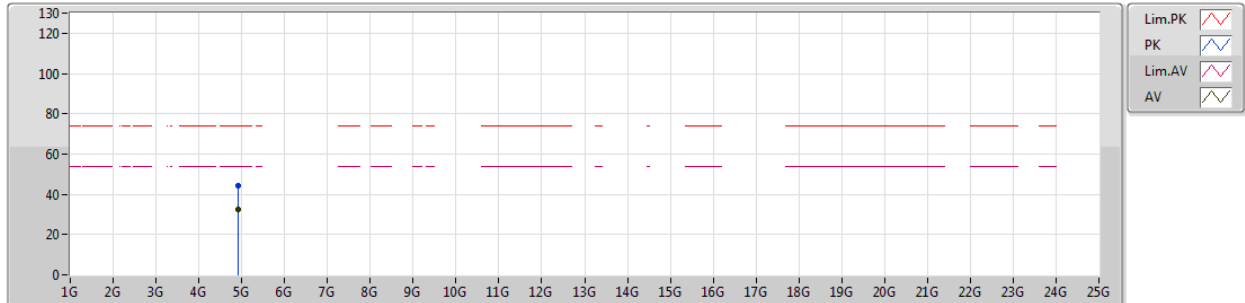


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments								
AV	4.924G	36.92	54.00	-17.08	2.38	3	Vertical	201	1.80	-								
PK	4.924G	44.99	74.00	-29.01	2.38	3	Vertical	201	1.80	-								

802.11b_Nss1,(1Mbps)_1TX

02/01/2019

2462MHz_TX

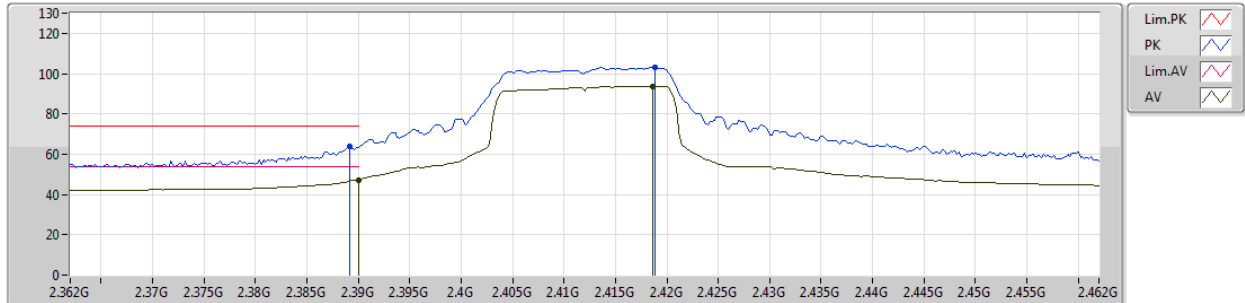


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)		(dB)	(m)		(°)	(m)								
AV	4.92412G	32.46	54.00	-21.54	2.38	3	Horizontal	257	2.04	-							
PK	4.92406G	44.10	74.00	-29.90	2.38	3	Horizontal	257	2.04	-							

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2412MHz_TX

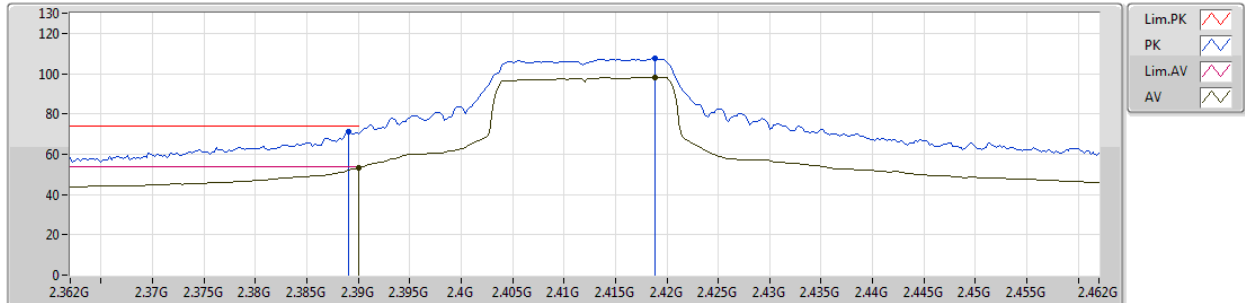


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	47.34	54.00	-6.66	30.77	3	Vertical	149	2.79	-
AV	2.4186G	93.75	Inf	-Inf	30.87	3	Vertical	149	2.79	-
PK	2.3892G	64.00	74.00	-10.00	30.77	3	Vertical	149	2.79	-
PK	2.4188G	103.16	Inf	-Inf	30.88	3	Vertical	149	2.79	-

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2412MHz_TX

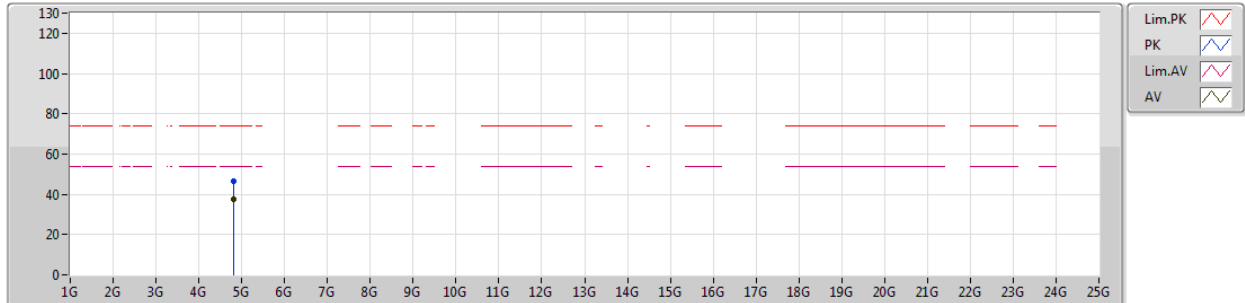


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	53.15	54.00	-0.85	30.77	3	Horizontal	241	2.56	-
AV	2.4188G	98.11	Inf	-Inf	30.88	3	Horizontal	241	2.56	-
PK	2.389G	71.04	74.00	-2.96	30.77	3	Horizontal	241	2.56	-
PK	2.4188G	107.57	Inf	-Inf	30.88	3	Horizontal	241	2.56	-

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2412MHz_TX

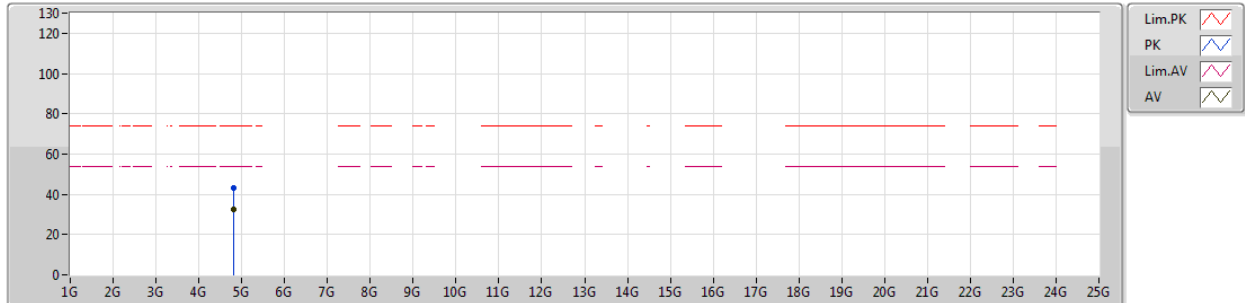


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	4.82406G	37.36	54.00	-16.64	2.13	3	Vertical	135	2.03	-								
PK	4.824G	46.56	74.00	-27.44	2.13	3	Vertical	135	2.03	-								

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2412MHz_TX

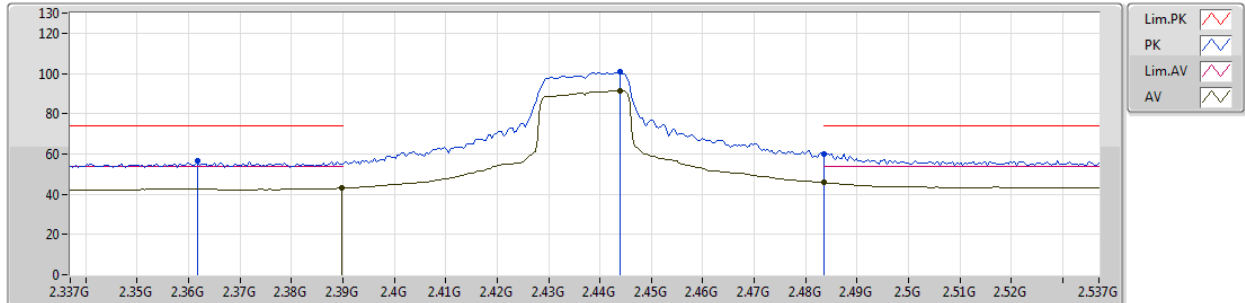


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)		(dB)	(m)		(°)	(m)									
AV	4.824G	32.41	54.00	-21.59	2.13	3	Horizontal	216	2.25	-								
PK	4.82436G	43.38	74.00	-30.62	2.13	3	Horizontal	216	2.25	-								

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2437MHz_TX

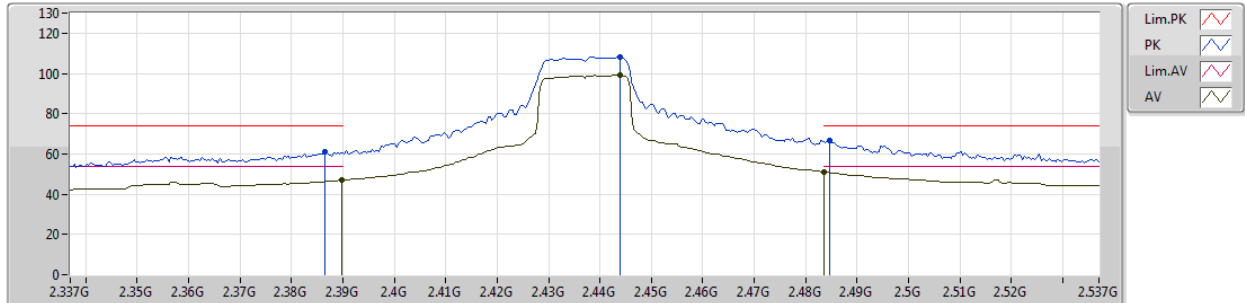


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.03	54.00	-10.97	30.77	3	Vertical	327	1.36	-
AV	2.4438G	91.31	Inf	-Inf	30.97	3	Vertical	327	1.36	-
AV	2.4835G	45.68	54.00	-8.32	31.11	3	Vertical	327	1.36	-
PK	2.3618G	56.43	74.00	-17.57	30.67	3	Vertical	327	1.36	-
PK	2.4438G	100.61	Inf	-Inf	30.97	3	Vertical	327	1.36	-
PK	2.4835G	59.96	74.00	-14.04	31.11	3	Vertical	327	1.36	-

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2437MHz_TX

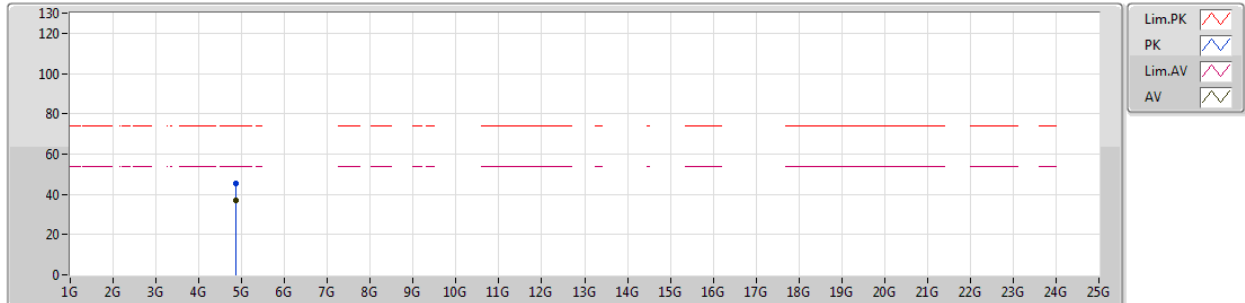


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.05	54.00	-6.95	30.77	3	Horizontal	234	2.90	-
AV	2.4438G	98.94	Inf	-Inf	30.97	3	Horizontal	234	2.90	-
AV	2.4835G	50.94	54.00	-3.06	31.11	3	Horizontal	234	2.90	-
PK	2.3866G	60.90	74.00	-13.10	30.76	3	Horizontal	234	2.90	-
PK	2.4438G	108.31	Inf	-Inf	30.97	3	Horizontal	234	2.90	-
PK	2.4846G	66.70	74.00	-7.30	31.12	3	Horizontal	234	2.90	-

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2437MHz_TX

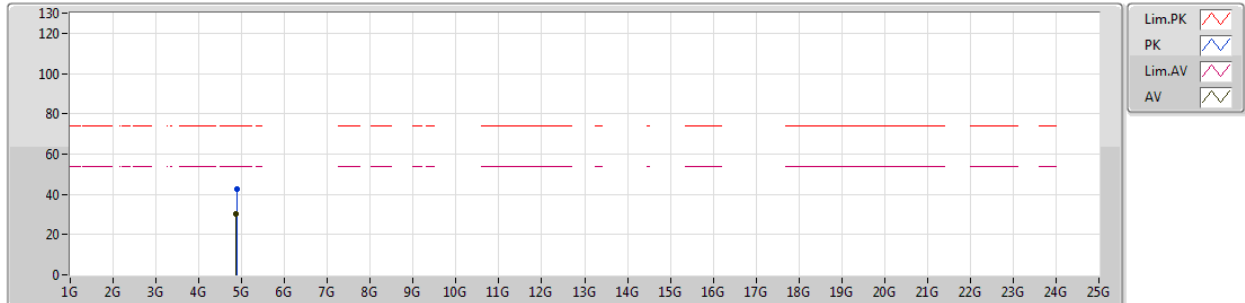


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	37.14	54.00	-16.86	2.25	3	Vertical	136	1.80	-
PK	4.87406G	45.34	74.00	-28.66	2.25	3	Vertical	136	1.80	-

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2437MHz_TX

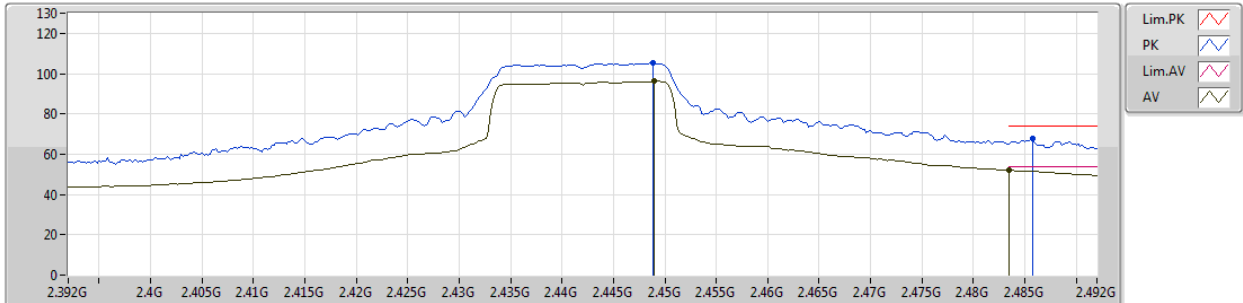


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	30.32	54.00	-23.68	2.25	3	Horizontal	152	1.03	-
PK	4.88624G	42.78	74.00	-31.22	2.29	3	Horizontal	152	1.03	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2442MHz_TX

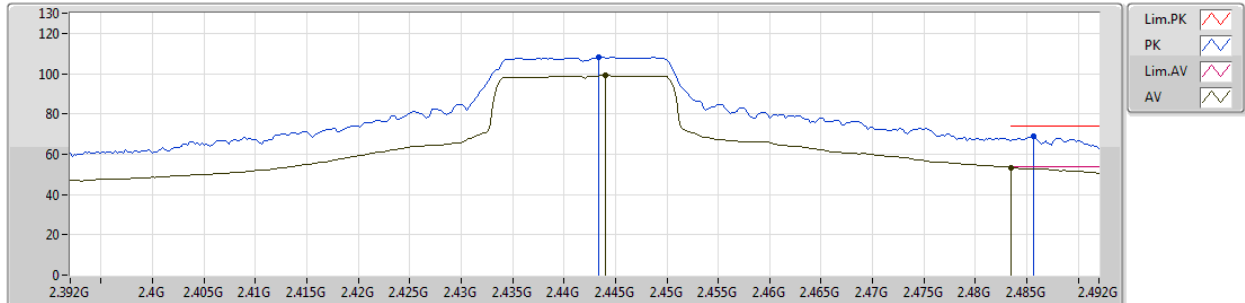


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.449G	96.12	Inf	-Inf	30.99	3	Vertical	138	2.99	-
AV	2.4835G	52.00	54.00	-2.00	31.11	3	Vertical	138	2.99	-
PK	2.4488G	105.48	Inf	-Inf	30.99	3	Vertical	138	2.99	-
PK	2.4858G	67.63	74.00	-6.37	31.12	3	Vertical	138	2.99	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2442MHz_TX

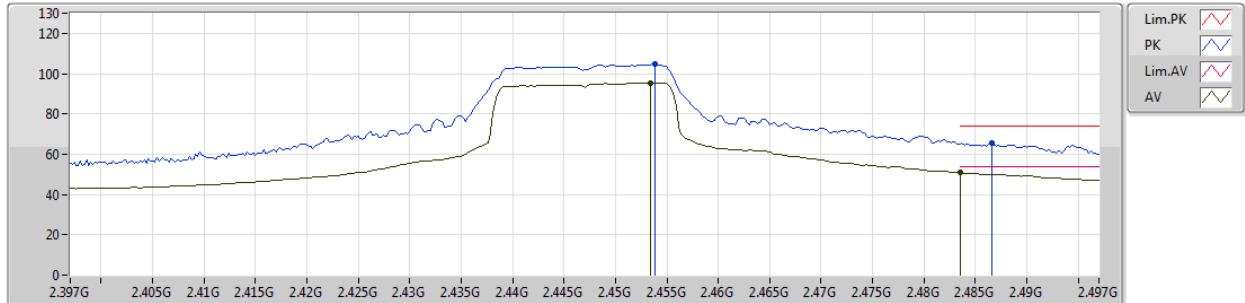


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.444G	99.12	Inf	-Inf	30.97	3	Horizontal	218	2.89	-
AV	2.4835G	53.49	54.00	-0.51	31.11	3	Horizontal	218	2.89	-
PK	2.4434G	108.39	Inf	-Inf	30.96	3	Horizontal	218	2.89	-
PK	2.4856G	68.69	74.00	-5.31	31.12	3	Horizontal	218	2.89	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2447MHz_TX

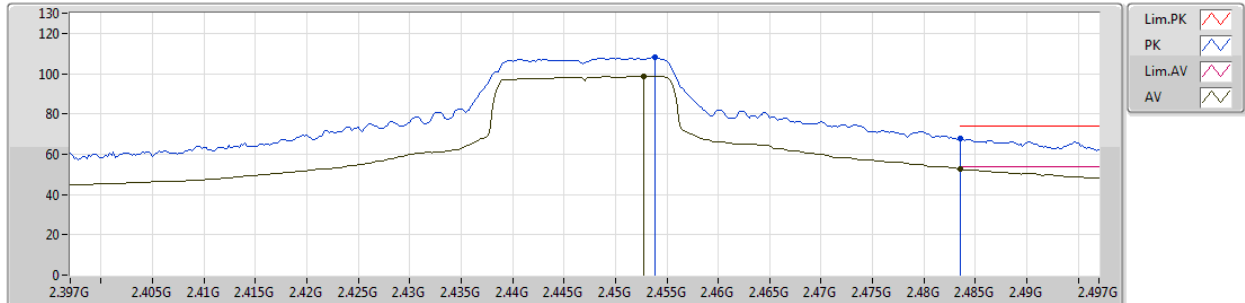


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4534G	95.28	Inf	-Inf	31.00	3	Vertical	140	2.99	-
AV	2.4835G	50.88	54.00	-3.12	31.11	3	Vertical	140	2.99	-
PK	2.4538G	104.72	Inf	-Inf	31.00	3	Vertical	140	2.99	-
PK	2.4866G	65.45	74.00	-8.55	31.12	3	Vertical	140	2.99	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2447MHz_TX

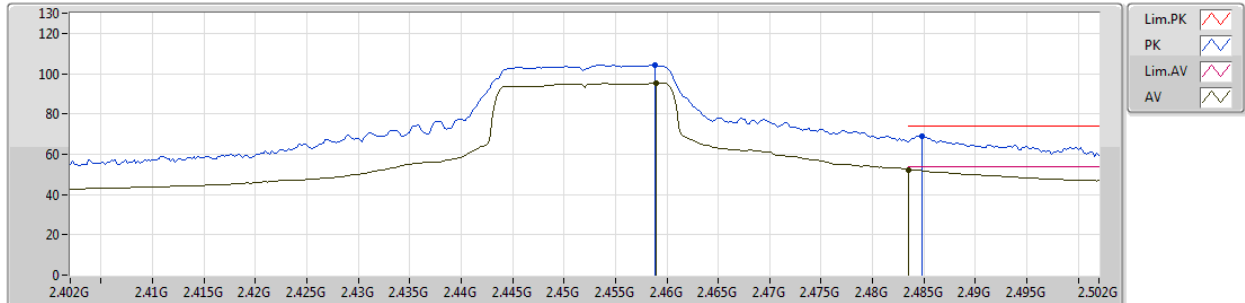


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4528G	98.54	Inf	-Inf	31.00	3	Horizontal	222	2.80	-
AV	2.4835G	52.79	54.00	-1.21	31.11	3	Horizontal	222	2.80	-
PK	2.4538G	107.97	Inf	-Inf	31.00	3	Horizontal	222	2.80	-
PK	2.4835G	67.69	74.00	-6.31	31.11	3	Horizontal	222	2.80	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2452MHz_TX

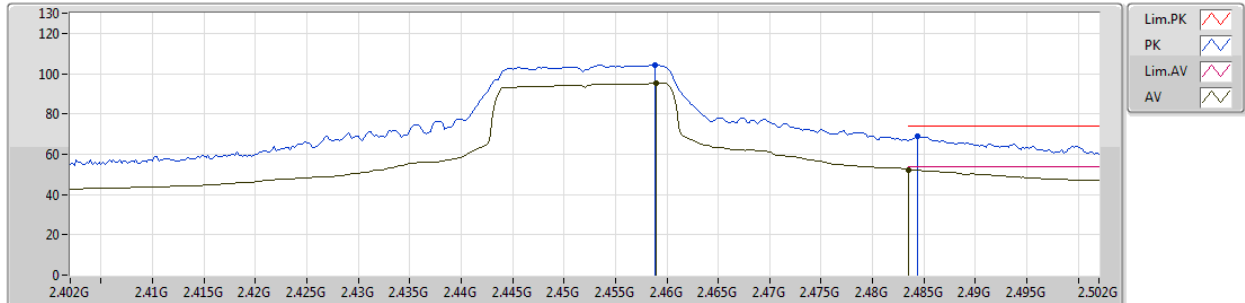


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.459G	95.07	Inf	-Inf	31.03	3	Vertical	144	2.99	-
AV	2.4835G	52.23	54.00	-1.77	31.11	3	Vertical	144	2.99	-
PK	2.4588G	104.48	Inf	-Inf	31.02	3	Vertical	144	2.99	-
PK	2.4848G	69.12	74.00	-4.88	31.12	3	Vertical	144	2.99	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2452MHz_TX

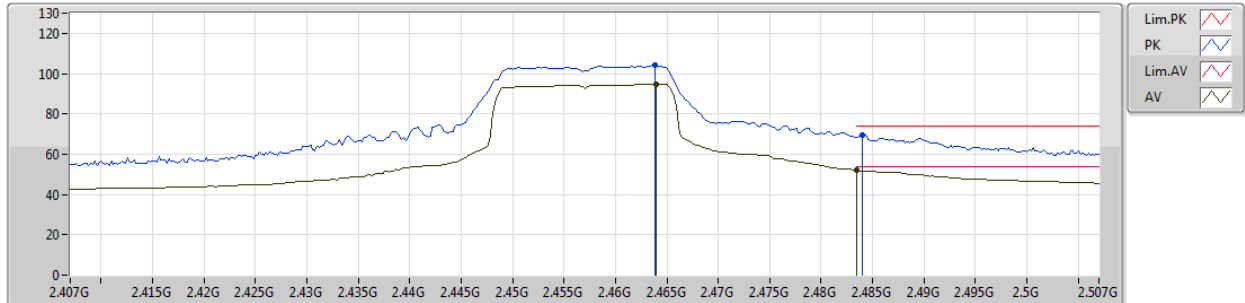


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.459G	95.09	Inf	-Inf	31.03	3	Horizontal	252	2.46	-
AV	2.4835G	52.27	54.00	-1.73	31.11	3	Horizontal	252	2.46	-
PK	2.4588G	104.49	Inf	-Inf	31.02	3	Horizontal	252	2.46	-
PK	2.4844G	68.78	74.00	-5.22	31.12	3	Horizontal	252	2.46	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2457MHz_TX

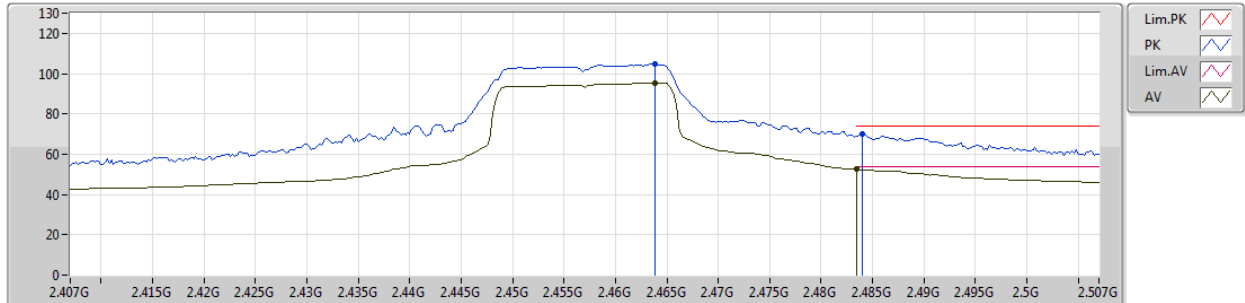


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.464G	94.73	Inf	-Inf	31.04	3	Vertical	143	2.99	-
AV	2.4835G	52.00	54.00	-2.00	31.11	3	Vertical	143	2.99	-
PK	2.4638G	104.15	Inf	-Inf	31.04	3	Vertical	143	2.99	-
PK	2.484G	69.65	74.00	-4.35	31.12	3	Vertical	143	2.99	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2457MHz_TX

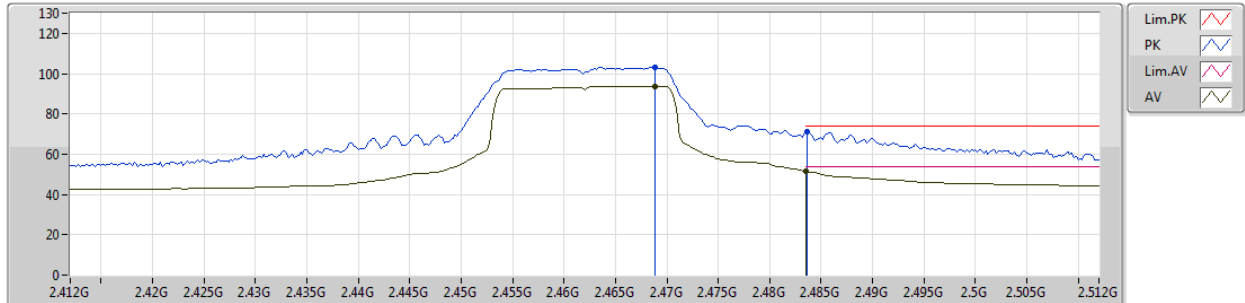


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4638G	95.33	Inf	-Inf	31.04	3	Horizontal	253	2.47	-
AV	2.4835G	52.40	54.00	-1.60	31.11	3	Horizontal	253	2.47	-
PK	2.4638G	104.76	Inf	-Inf	31.04	3	Horizontal	253	2.47	-
PK	2.484G	70.31	74.00	-3.69	31.12	3	Horizontal	253	2.47	-

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2462MHz_TX

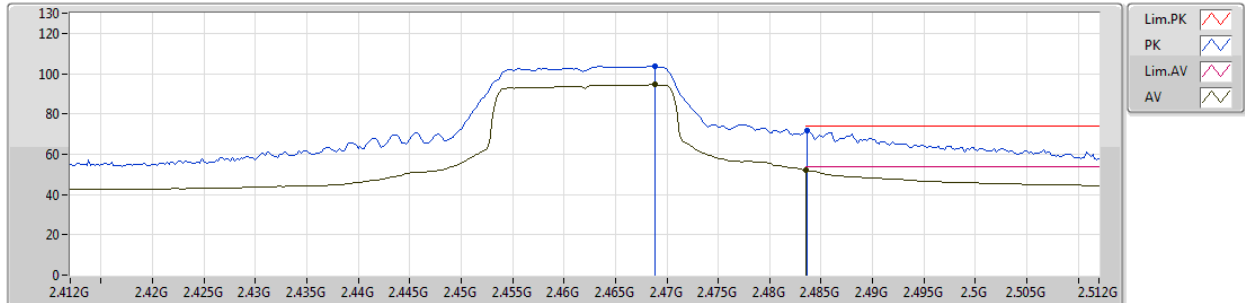


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4688G	93.81	Inf	-Inf	31.06	3	Vertical	151	2.99	-
AV	2.4836G	51.52	54.00	-2.48	31.11	3	Vertical	151	2.99	-
PK	2.4688G	103.18	Inf	-Inf	31.06	3	Vertical	151	2.99	-
PK	2.4836G	71.03	74.00	-2.97	31.11	3	Vertical	151	2.99	-

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2462MHz_TX

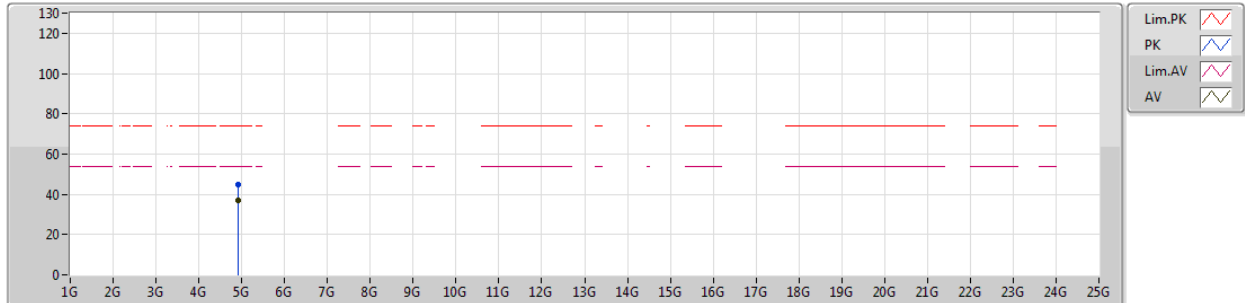


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4688G	94.46	Inf	-Inf	31.06	3	Horizontal	259	2.21	-
AV	2.4835G	52.12	54.00	-1.88	31.11	3	Horizontal	259	2.21	-
PK	2.4688G	103.88	Inf	-Inf	31.06	3	Horizontal	259	2.21	-
PK	2.4836G	71.50	74.00	-2.50	31.11	3	Horizontal	259	2.21	-

802.11g_Nss1,(6Mbps)_1TX

02/01/2019

2462MHz_TX

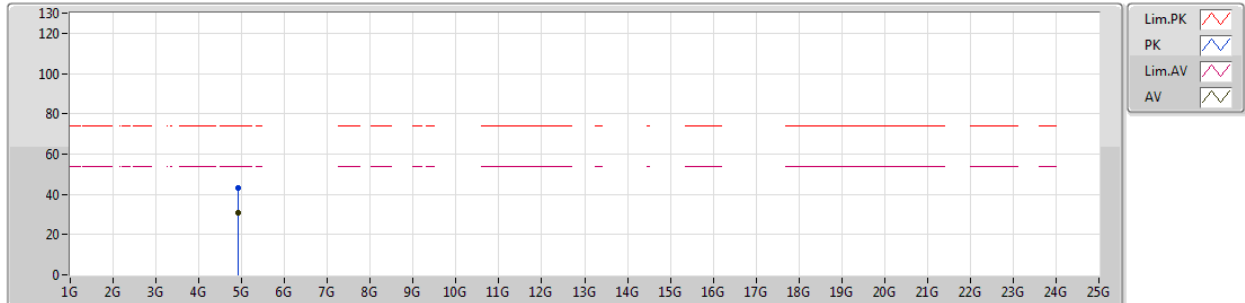


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92406G	37.26	54.00	-16.74	2.38	3	Vertical	135	1.57	-
PK	4.92424G	45.09	74.00	-28.91	2.38	3	Vertical	135	1.57	-

802.11g_Nss1,(6Mbps)_1TX

03/01/2019

2462MHz_TX

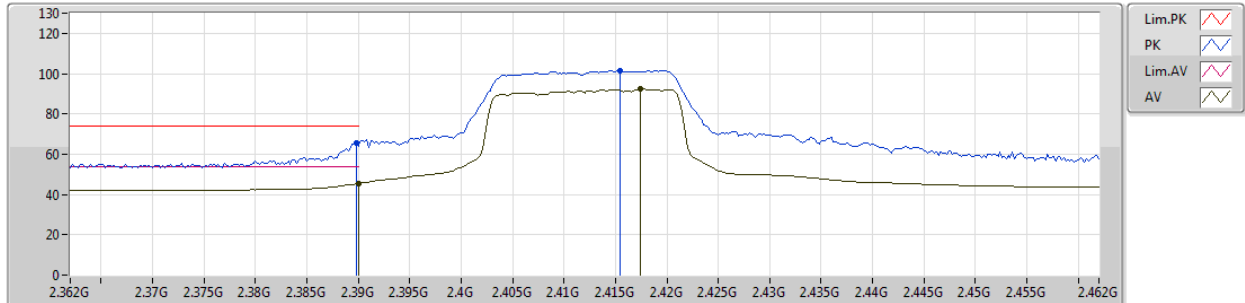


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments								
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)									
AV	4.92394G	30.78	54.00	-23.22	2.38	3	Horizontal	223	2.48	-								
PK	4.92622G	43.35	74.00	-30.65	2.39	3	Horizontal	223	2.48	-								

802.11n HT20_Nss1,(MCS0)_1TX

02/01/2019

2412MHz_TX

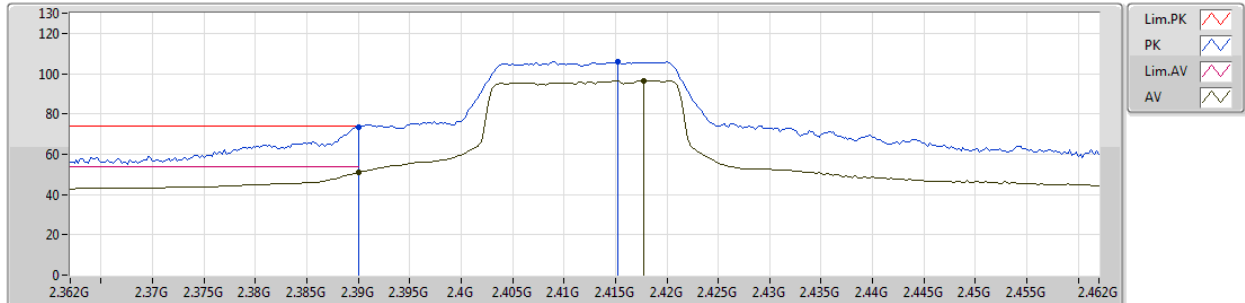


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	45.40	54.00	-8.60	30.77	3	Vertical	145	2.79	-
AV	2.4174G	92.23	Inf	-Inf	30.87	3	Vertical	145	2.79	-
PK	2.3898G	65.74	74.00	-8.26	30.77	3	Vertical	145	2.79	-
PK	2.4154G	101.40	Inf	-Inf	30.86	3	Vertical	145	2.79	-

802.11n HT20_Nss1,(MCS0)_1TX

02/01/2019

2412MHz_TX

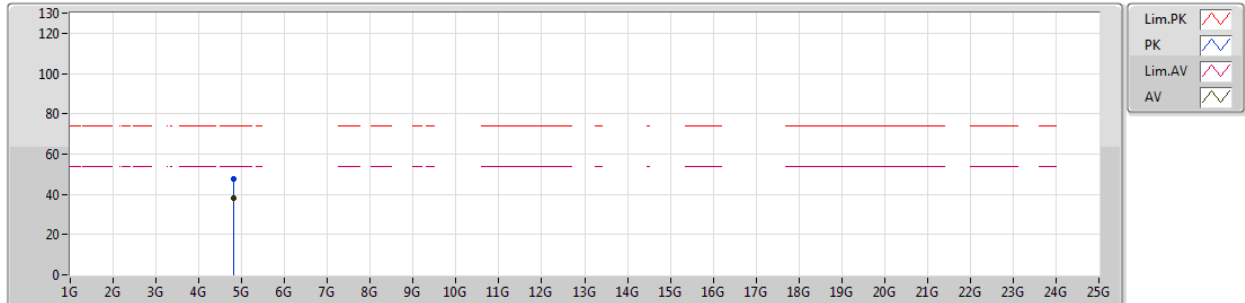


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	50.81	54.00	-3.19	30.77	3	Horizontal	235	2.57	-
AV	2.4178G	96.43	Inf	-Inf	30.87	3	Horizontal	235	2.57	-
PK	2.39G	73.54	74.00	-0.46	30.77	3	Horizontal	235	2.57	-
PK	2.4152G	105.67	Inf	-Inf	30.86	3	Horizontal	235	2.57	-

802.11n HT20_Nss1,(MCS0)_1TX

02/01/2019

2412MHz_TX

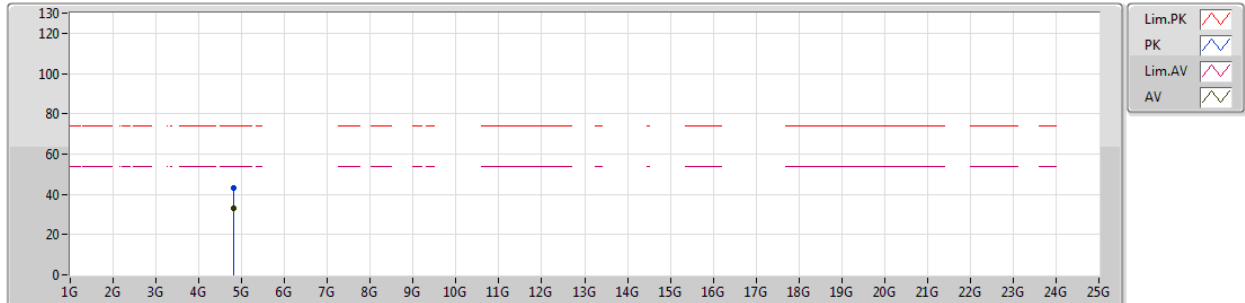


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.824G	38.07	54.00	-15.93	2.13	3	Vertical	132	2.04	-
PK	4.824G	47.65	74.00	-26.35	2.13	3	Vertical	132	2.04	-

802.11n HT20_Nss1,(MCS0)_1TX

02/01/2019

2412MHz_TX

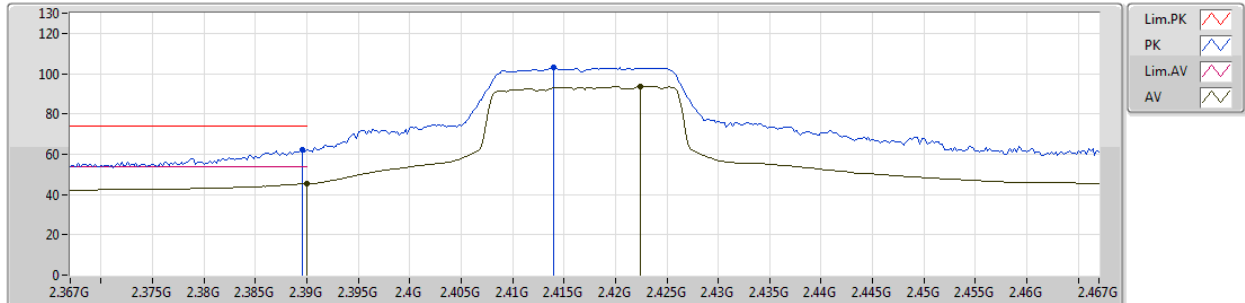


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments							
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)								
AV	4.82406G	32.96	54.00	-21.04	2.13	3	Horizontal	223	2.24	-							
PK	4.82298G	42.97	74.00	-31.03	2.13	3	Horizontal	223	2.24	-							

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2417MHz_TX

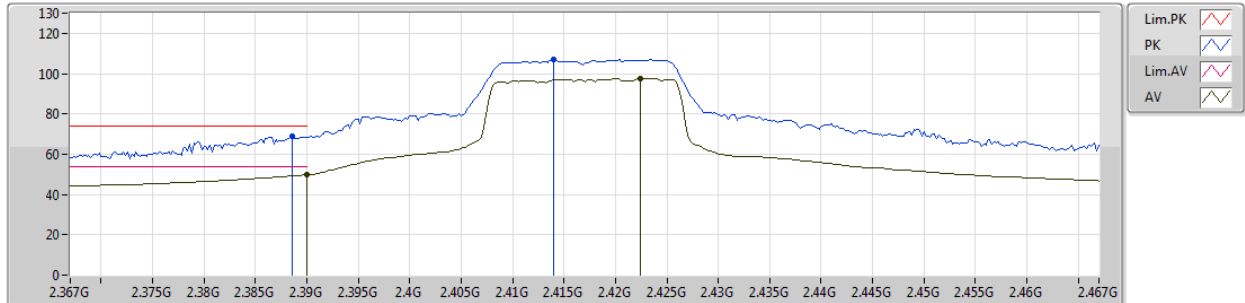


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	45.28	54.00	-8.72	30.77	3	Vertical	142	2.79	-
AV	2.4224G	93.63	Inf	-Inf	30.89	3	Vertical	142	2.79	-
PK	2.3896G	62.12	74.00	-11.88	30.77	3	Vertical	142	2.79	-
PK	2.414G	102.97	Inf	-Inf	30.86	3	Vertical	142	2.79	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2417MHz_TX

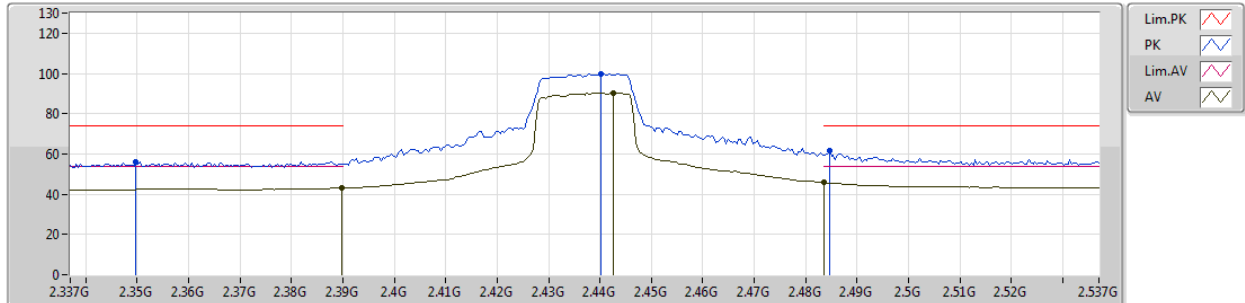


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.39G	49.75	54.00	-4.25	30.77	3	Horizontal	229	2.59	-
AV	2.4224G	97.63	Inf	-Inf	30.89	3	Horizontal	229	2.59	-
PK	2.3886G	68.98	74.00	-5.02	30.77	3	Horizontal	229	2.59	-
PK	2.414G	106.87	Inf	-Inf	30.86	3	Horizontal	229	2.59	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2437MHz_TX

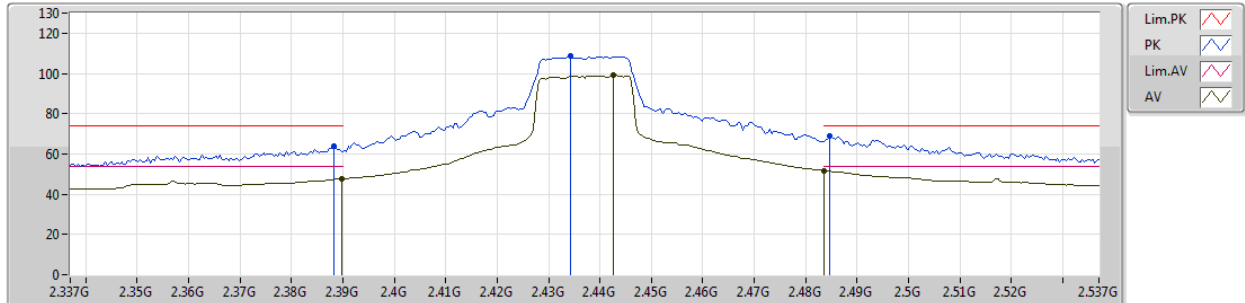


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.03	54.00	-10.97	30.77	3	Vertical	326	1.35	-
AV	2.4426G	90.49	Inf	-Inf	30.96	3	Vertical	326	1.35	-
AV	2.4835G	45.75	54.00	-8.25	31.11	3	Vertical	326	1.35	-
PK	2.3498G	56.16	74.00	-17.84	30.63	3	Vertical	326	1.35	-
PK	2.4402G	99.84	Inf	-Inf	30.95	3	Vertical	326	1.35	-
PK	2.4846G	61.70	74.00	-12.30	31.12	3	Vertical	326	1.35	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2437MHz_TX

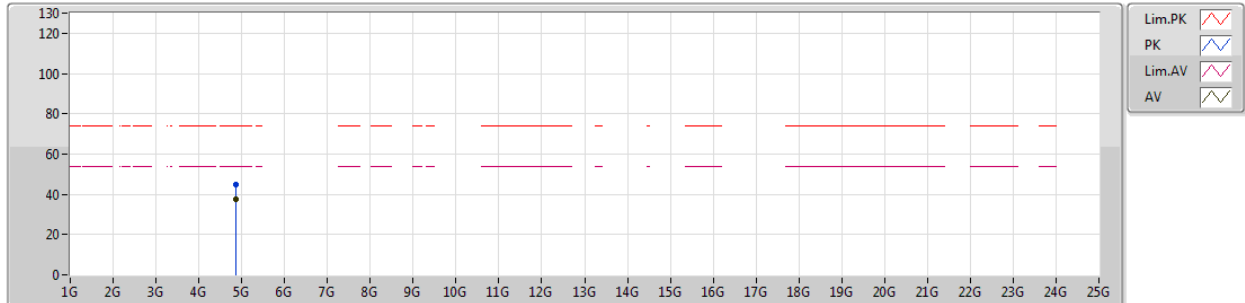


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	47.62	54.00	-6.38	30.77	3	Horizontal	233	2.89	-
AV	2.4426G	99.02	Inf	-Inf	30.96	3	Horizontal	233	2.89	-
AV	2.4835G	51.76	54.00	-2.24	31.11	3	Horizontal	233	2.89	-
PK	2.3882G	63.79	74.00	-10.21	30.77	3	Horizontal	233	2.89	-
PK	2.4342G	108.61	Inf	-Inf	30.94	3	Horizontal	233	2.89	-
PK	2.4846G	68.75	74.00	-5.25	31.12	3	Horizontal	233	2.89	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2437MHz_TX

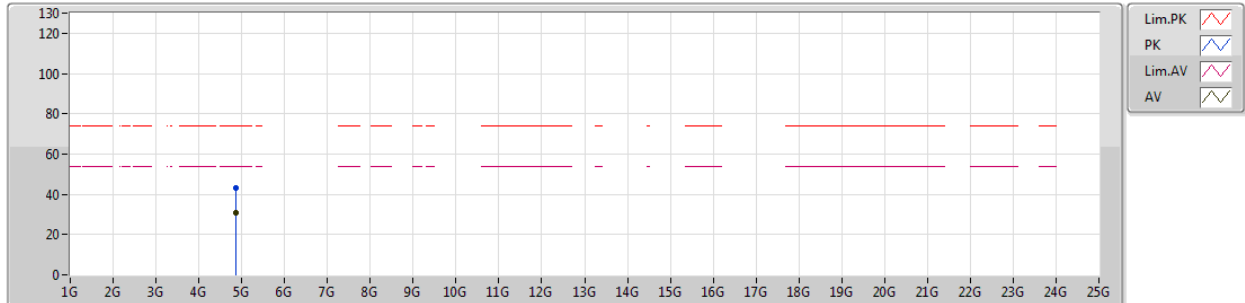


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87406G	37.33	54.00	-16.67	2.25	3	Vertical	131	1.83	-
PK	4.87382G	44.98	74.00	-29.02	2.25	3	Vertical	131	1.83	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2437MHz_TX

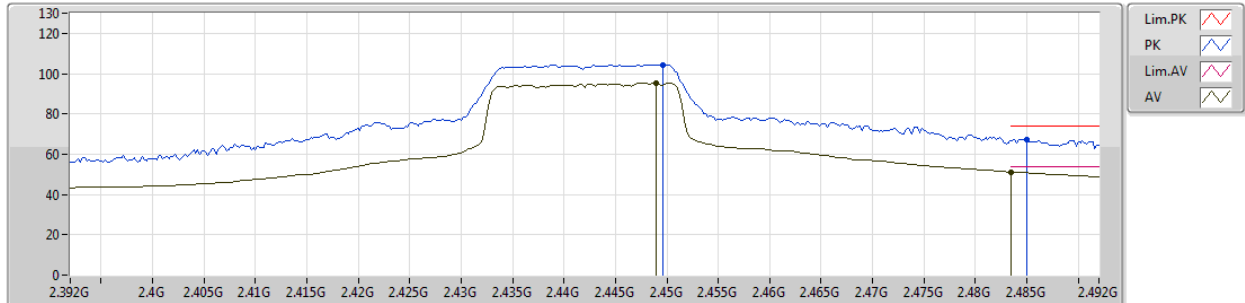


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87406G	30.97	54.00	-23.03	2.25	3	Horizontal	211	1.98	-
PK	4.87388G	42.88	74.00	-31.12	2.25	3	Horizontal	211	1.98	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2442MHz_TX

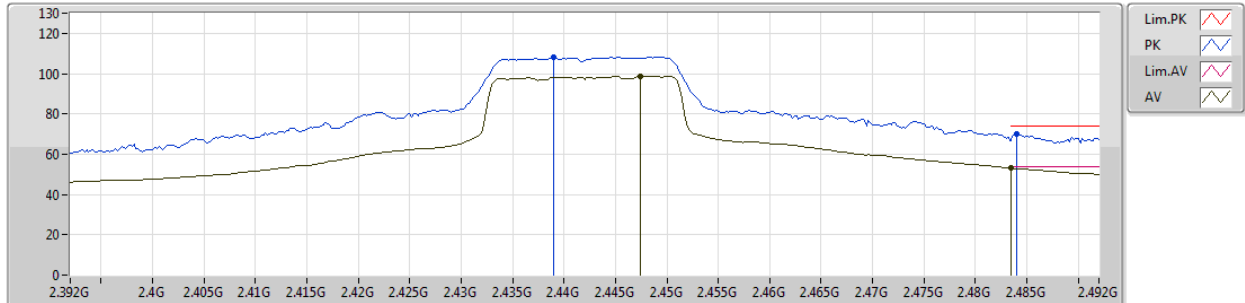


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.449G	95.11	Inf	-Inf	30.99	3	Vertical	146	2.99	-
AV	2.4835G	51.11	54.00	-2.89	31.11	3	Vertical	146	2.99	-
PK	2.4496G	104.50	Inf	-Inf	30.99	3	Vertical	146	2.99	-
PK	2.485G	67.47	74.00	-6.53	31.12	3	Vertical	146	2.99	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2442MHz_TX

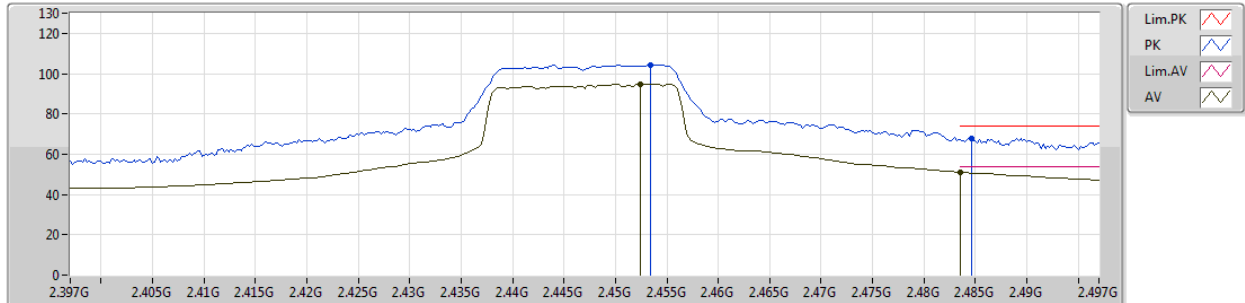


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4474G	98.76	Inf	-Inf	30.98	3	Horizontal	228	2.80	-
AV	2.4835G	53.00	54.00	-1.00	31.11	3	Horizontal	228	2.80	-
PK	2.439G	108.25	Inf	-Inf	30.95	3	Horizontal	228	2.80	-
PK	2.484G	69.81	74.00	-4.19	31.12	3	Horizontal	228	2.80	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2447MHz_TX

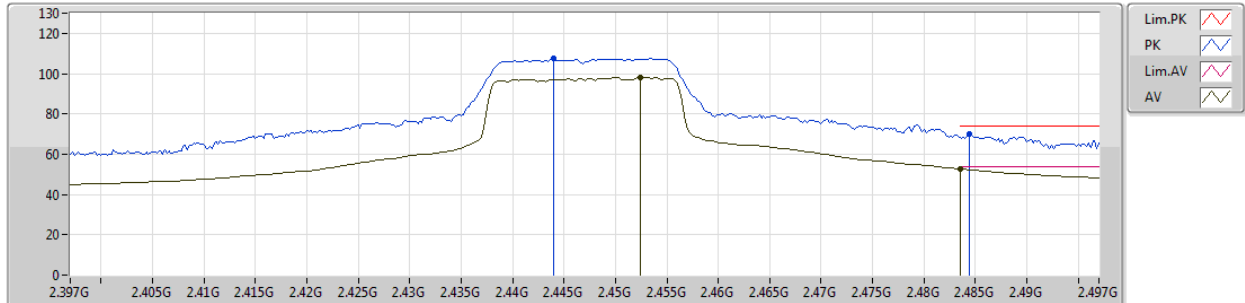


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4524G	94.90	Inf	-Inf	31.00	3	Vertical	145	2.99	-
AV	2.4835G	51.16	54.00	-2.84	31.11	3	Vertical	145	2.99	-
PK	2.4534G	104.25	Inf	-Inf	31.00	3	Vertical	145	2.99	-
PK	2.4846G	68.05	74.00	-5.95	31.12	3	Vertical	145	2.99	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2447MHz_TX

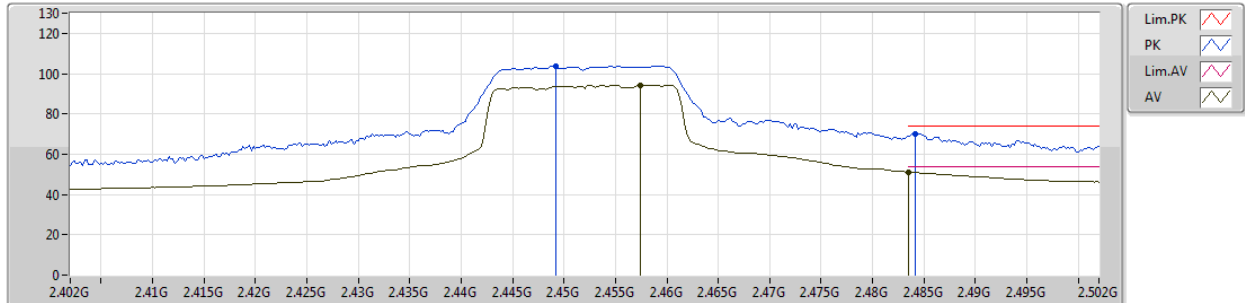


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4524G	98.09	Inf	-Inf	31.00	3	Horizontal	229	2.81	-
AV	2.4835G	52.74	54.00	-1.26	31.11	3	Horizontal	229	2.81	-
PK	2.444G	107.48	Inf	-Inf	30.97	3	Horizontal	229	2.81	-
PK	2.4844G	69.93	74.00	-4.07	31.12	3	Horizontal	229	2.81	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2452MHz_TX

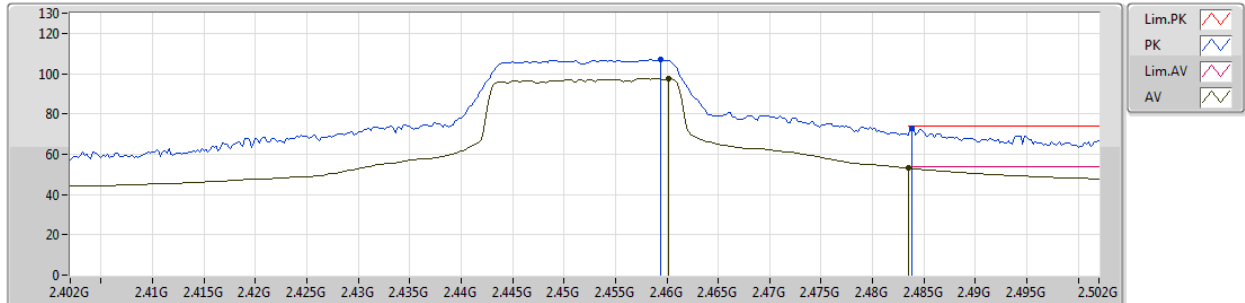


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4574G	94.21	Inf	-Inf	31.02	3	Vertical	148	2.99	-
AV	2.4835G	51.16	54.00	-2.84	31.11	3	Vertical	148	2.99	-
PK	2.4492G	103.73	Inf	-Inf	30.99	3	Vertical	148	2.99	-
PK	2.4842G	70.29	74.00	-3.71	31.12	3	Vertical	148	2.99	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2452MHz_TX

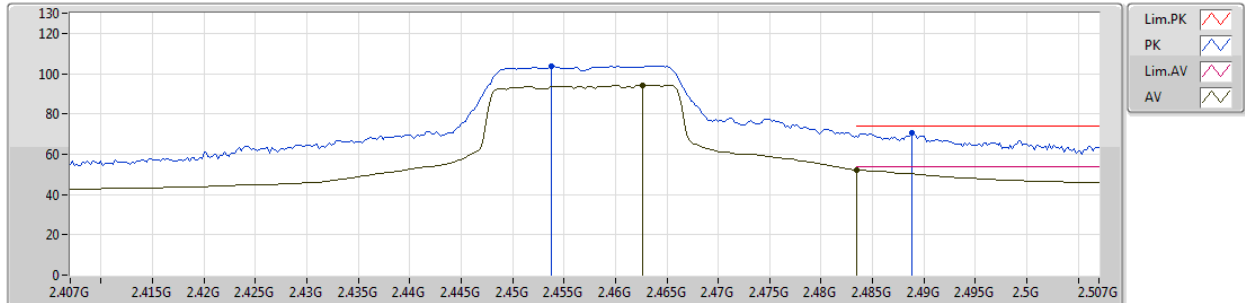


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4602G	97.44	Inf	-Inf	31.03	3	Horizontal	229	2.74	-
AV	2.4835G	53.03	54.00	-0.97	31.11	3	Horizontal	229	2.74	-
PK	2.4594G	106.87	Inf	-Inf	31.03	3	Horizontal	229	2.74	-
PK	2.4838G	72.75	74.00	-1.25	31.11	3	Horizontal	229	2.74	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2457MHz_TX

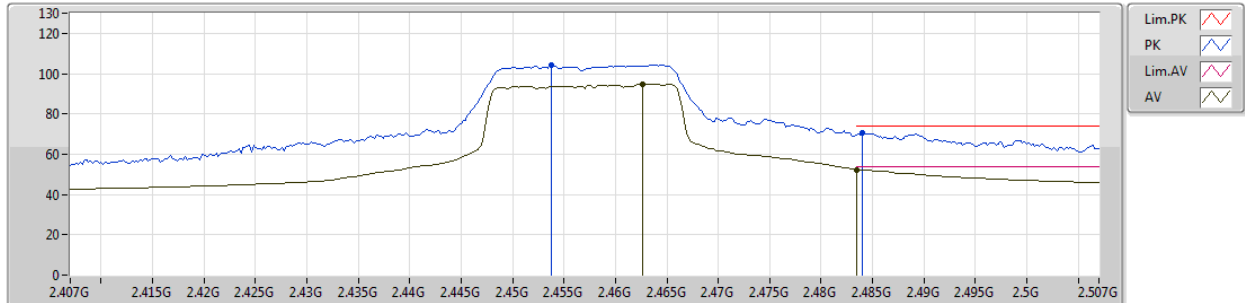


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4626G	94.39	Inf	-Inf	31.04	3	Vertical	148	2.99	-
AV	2.4835G	52.11	54.00	-1.89	31.11	3	Vertical	148	2.99	-
PK	2.4538G	103.80	Inf	-Inf	31.00	3	Vertical	148	2.99	-
PK	2.4888G	70.41	74.00	-3.59	31.13	3	Vertical	148	2.99	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2457MHz_TX

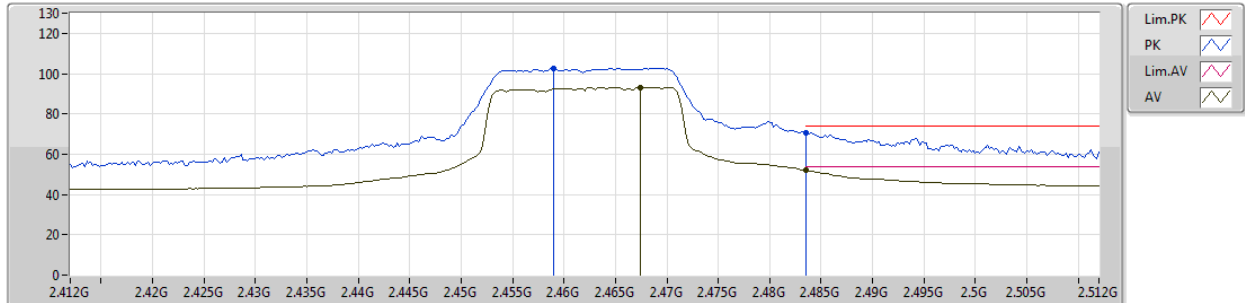


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4626G	94.74	Inf	-Inf	31.04	3	Horizontal	259	2.21	-
AV	2.4835G	52.36	54.00	-1.64	31.11	3	Horizontal	259	2.21	-
PK	2.4538G	104.00	Inf	-Inf	31.00	3	Horizontal	259	2.21	-
PK	2.484G	70.53	74.00	-3.47	31.12	3	Horizontal	259	2.21	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2462MHz_TX

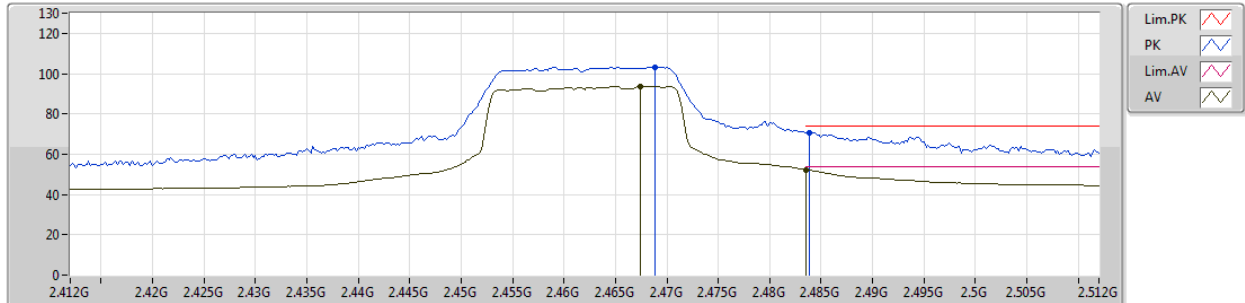


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4674G	93.23	Inf	-Inf	31.05	3	Vertical	148	2.99	-
AV	2.4835G	52.03	54.00	-1.97	31.11	3	Vertical	148	2.99	-
PK	2.459G	102.69	Inf	-Inf	31.03	3	Vertical	148	2.99	-
PK	2.4835G	70.60	74.00	-3.40	31.11	3	Vertical	148	2.99	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2462MHz_TX

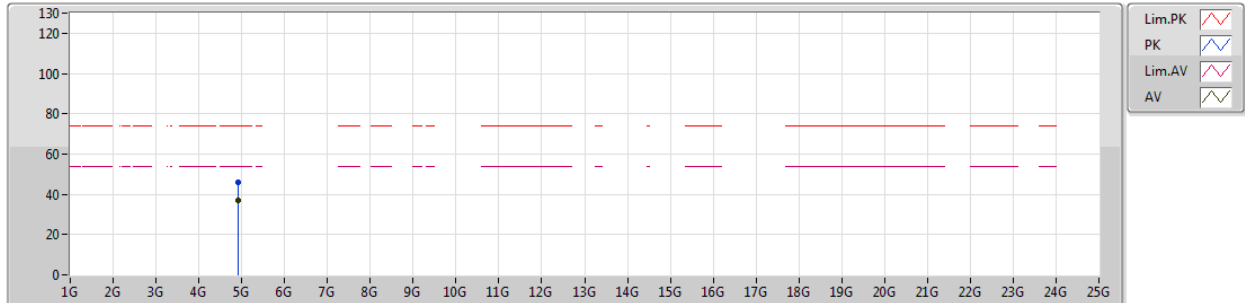


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4674G	93.72	Inf	-Inf	31.05	3	Horizontal	257	2.47	-
AV	2.4835G	52.28	54.00	-1.72	31.11	3	Horizontal	257	2.47	-
PK	2.4688G	103.16	Inf	-Inf	31.06	3	Horizontal	257	2.47	-
PK	2.4838G	70.61	74.00	-3.39	31.11	3	Horizontal	257	2.47	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2462MHz_TX

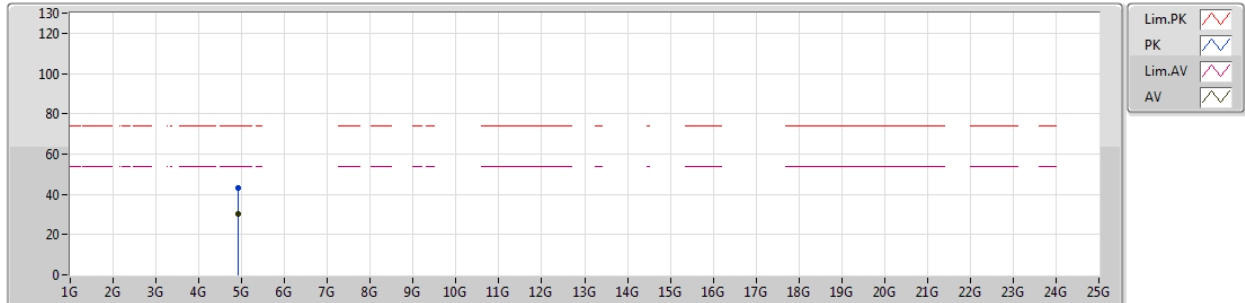


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.924G	37.22	54.00	-16.78	2.38	3	Vertical	131	1.82	-
PK	4.92418G	45.99	74.00	-28.01	2.38	3	Vertical	131	1.82	-

802.11n HT20_Nss1,(MCS0)_1TX

03/01/2019

2462MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92406G	30.52	54.00	-23.48	2.38	3	Horizontal	145	1.37	-
PK	4.92556G	43.29	74.00	-30.71	2.39	3	Horizontal	145	1.37	-

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	QP	885.54M	45.51	46.00	-0.49	2.23	3	Horizontal	123	1.62	-

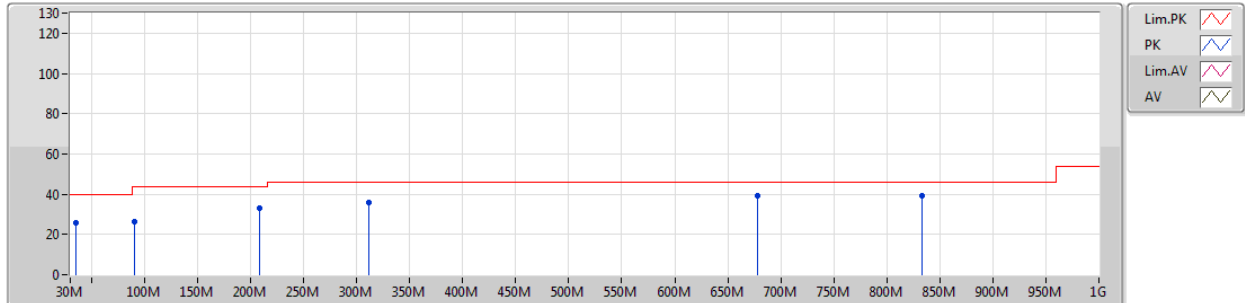
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	35.82M	25.71	40.00	-14.29	-7.68	3	Vertical	360	1.00	-
2437MHz	Pass	PK	90.14M	26.29	43.50	-17.21	-12.55	3	Vertical	360	1.00	-
2437MHz	Pass	PK	208.48M	33.00	43.50	-10.50	-10.52	3	Vertical	360	1.00	-
2437MHz	Pass	PK	311.3M	35.94	46.00	-10.06	-5.66	3	Vertical	360	1.00	-
2437MHz	Pass	PK	677.96M	38.95	46.00	-7.05	-0.27	3	Vertical	360	1.00	-
2437MHz	Pass	PK	833.16M	38.97	46.00	-7.03	1.62	3	Vertical	360	1.00	-
2437MHz	Pass	PK	35.82M	25.58	40.00	-14.42	-7.68	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	173.56M	33.77	43.50	-9.73	-10.85	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	208.48M	39.21	43.50	-4.29	-10.52	3	Horizontal	0	1.00	-
2437MHz	Pass	PK	573.2M	40.99	46.00	-5.01	-1.25	3	Horizontal	0	1.00	-
2437MHz	Pass	QP	309.36M	40.69	46.00	-5.31	-5.69	3	Horizontal	23	1.47	-
2437MHz	Pass	QP	885.54M	45.51	46.00	-0.49	2.23	3	Horizontal	123	1.62	-

802.11n HT20_Nss1,(MCS0)_1RX

15/01/2019

2437MHz_DC power supply

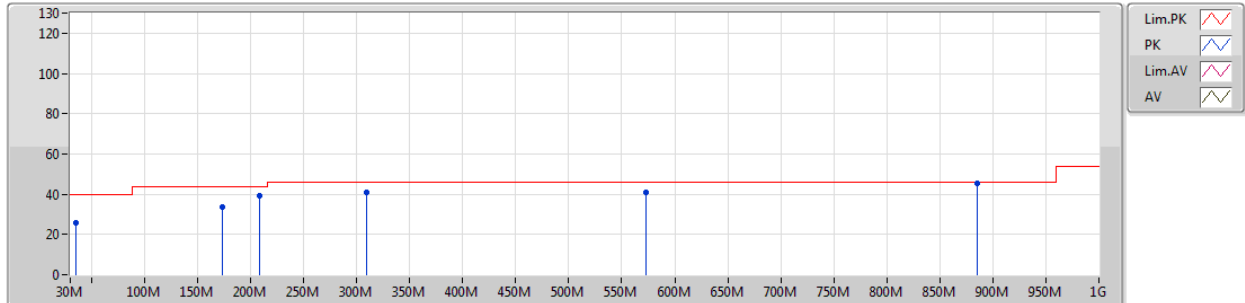


Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	35.82M	25.71	40.00	-14.29	-7.68	3	Vertical	360	1.00	-
PK	90.14M	26.29	43.50	-17.21	-12.55	3	Vertical	360	1.00	-
PK	208.48M	33.00	43.50	-10.50	-10.52	3	Vertical	360	1.00	-
PK	311.3M	35.94	46.00	-10.06	-5.66	3	Vertical	360	1.00	-
PK	677.96M	38.95	46.00	-7.05	-0.27	3	Vertical	360	1.00	-
PK	833.16M	38.97	46.00	-7.03	1.62	3	Vertical	360	1.00	-

802.11n HT20_Nss1,(MCS0)_1RX

15/01/2019

2437MHz_DC power supply



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comments
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)	
PK	35.82M	25.58	40.00	-14.42	-7.68	3	Horizontal	0	1.00	-
PK	173.56M	33.77	43.50	-9.73	-10.85	3	Horizontal	0	1.00	-
PK	208.48M	39.21	43.50	-4.29	-10.52	3	Horizontal	0	1.00	-
PK	573.2M	40.99	46.00	-5.01	-1.25	3	Horizontal	0	1.00	-
QP	309.36M	40.69	46.00	-5.31	-5.69	3	Horizontal	23	1.47	-
QP	885.54M	45.51	46.00	-0.49	2.23	3	Horizontal	123	1.62	-

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_1TX	Pass	AV	1.368G	39.94	54.00	-14.06	-6.56	3	Vertical	172	1.27	-

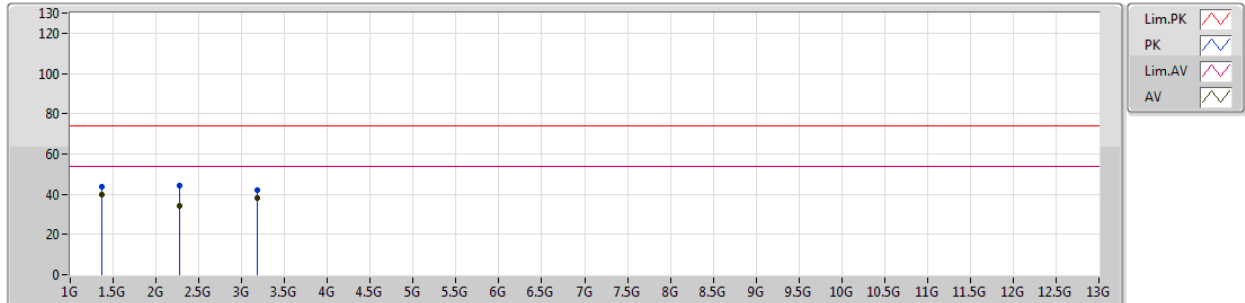
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11n HT20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	AV	1.368G	39.94	54.00	-14.06	-6.56	3	Vertical	172	1.27	-
2437MHz	Pass	AV	2.2741G	34.16	54.00	-19.84	-4.01	3	Vertical	115	1.93	-
2437MHz	Pass	AV	3.184G	38.24	54.00	-15.76	-1.81	3	Vertical	189	1.00	-
2437MHz	Pass	PK	1.368G	43.52	74.00	-30.48	-6.56	3	Vertical	172	1.27	-
2437MHz	Pass	PK	2.2741G	44.11	74.00	-29.89	-4.01	3	Vertical	115	1.93	-
2437MHz	Pass	PK	3.184G	42.11	74.00	-31.89	-1.81	3	Vertical	189	1.00	-
2437MHz	Pass	AV	1.144G	39.76	54.00	-14.24	-7.76	3	Horizontal	256	2.02	-
2437MHz	Pass	AV	1.36G	38.29	54.00	-15.71	-6.61	3	Horizontal	192	3.00	-
2437MHz	Pass	AV	3.184G	37.92	54.00	-16.08	-1.81	3	Horizontal	215	1.06	-
2437MHz	Pass	PK	1.144G	44.19	74.00	-29.81	-7.76	3	Horizontal	256	2.02	-
2437MHz	Pass	PK	1.36G	43.77	74.00	-30.23	-6.61	3	Horizontal	192	3.00	-
2437MHz	Pass	PK	3.184G	44.10	74.00	-29.90	-1.81	3	Horizontal	215	1.06	-

802.11n HT20_Nss1,(MCS0)_1RX

03/01/2019

2437MHz_RX

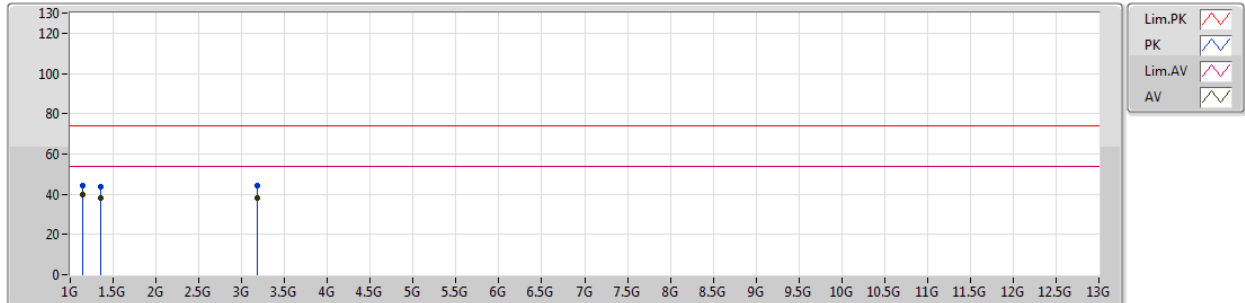


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	1.368G	39.94	54.00	-14.06	-6.56	3	Vertical	172	1.27	-
AV	2.2741G	34.16	54.00	-19.84	-4.01	3	Vertical	115	1.93	-
AV	3.184G	38.24	54.00	-15.76	-1.81	3	Vertical	189	1.00	-
PK	1.368G	43.52	74.00	-30.48	-6.56	3	Vertical	172	1.27	-
PK	2.2741G	44.11	74.00	-29.89	-4.01	3	Vertical	115	1.93	-
PK	3.184G	42.11	74.00	-31.89	-1.81	3	Vertical	189	1.00	-

802.11n HT20_Nss1,(MCS0)_1RX

03/01/2019

2437MHz_RX



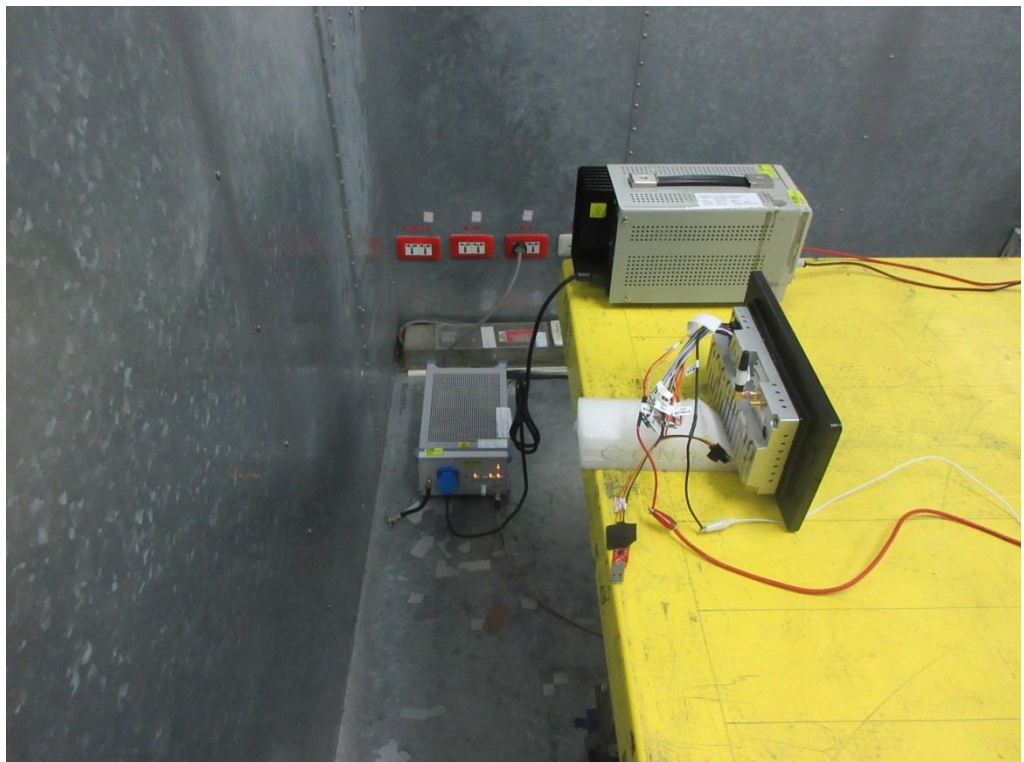
Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	1.144G	39.76	54.00	-14.24	-7.76	3	Horizontal	256	2.02	-
AV	1.36G	38.29	54.00	-15.71	-6.61	3	Horizontal	192	3.00	-
AV	3.184G	37.92	54.00	-16.08	-1.81	3	Horizontal	215	1.06	-
PK	1.144G	44.19	74.00	-29.81	-7.76	3	Horizontal	256	2.02	-
PK	1.36G	43.77	74.00	-30.23	-6.61	3	Horizontal	192	3.00	-
PK	3.184G	44.10	74.00	-29.90	-1.81	3	Horizontal	215	1.06	-

1. Photographs of Conducted Emissions Test Configuration

Front View



Side View



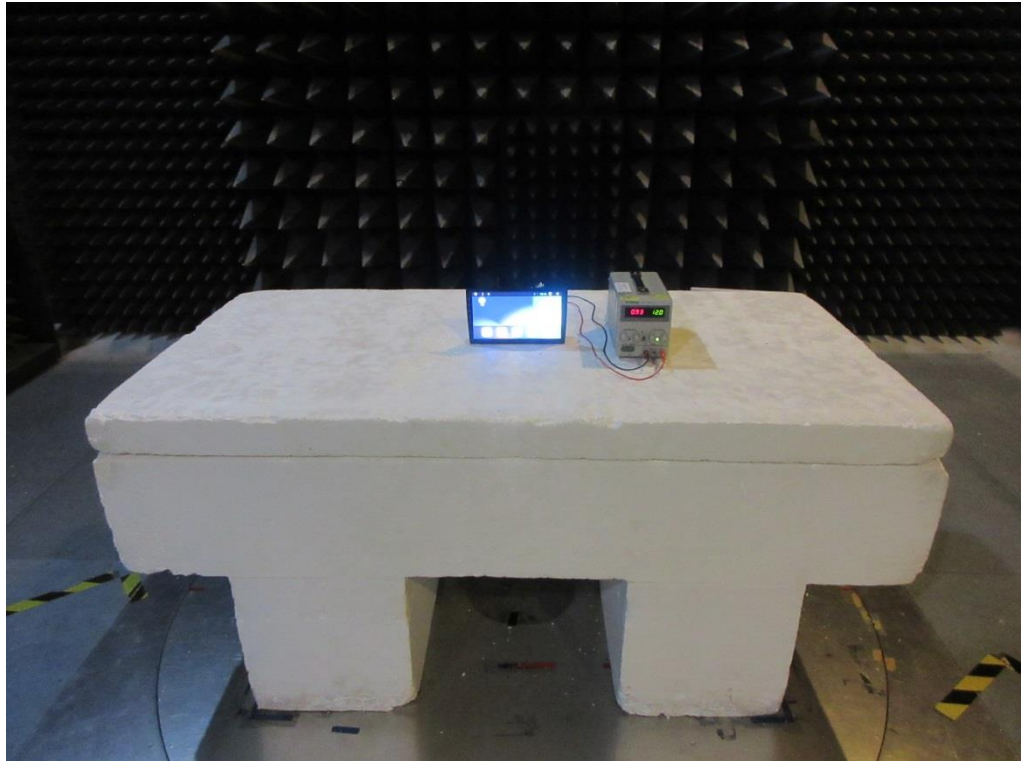
Under Table View



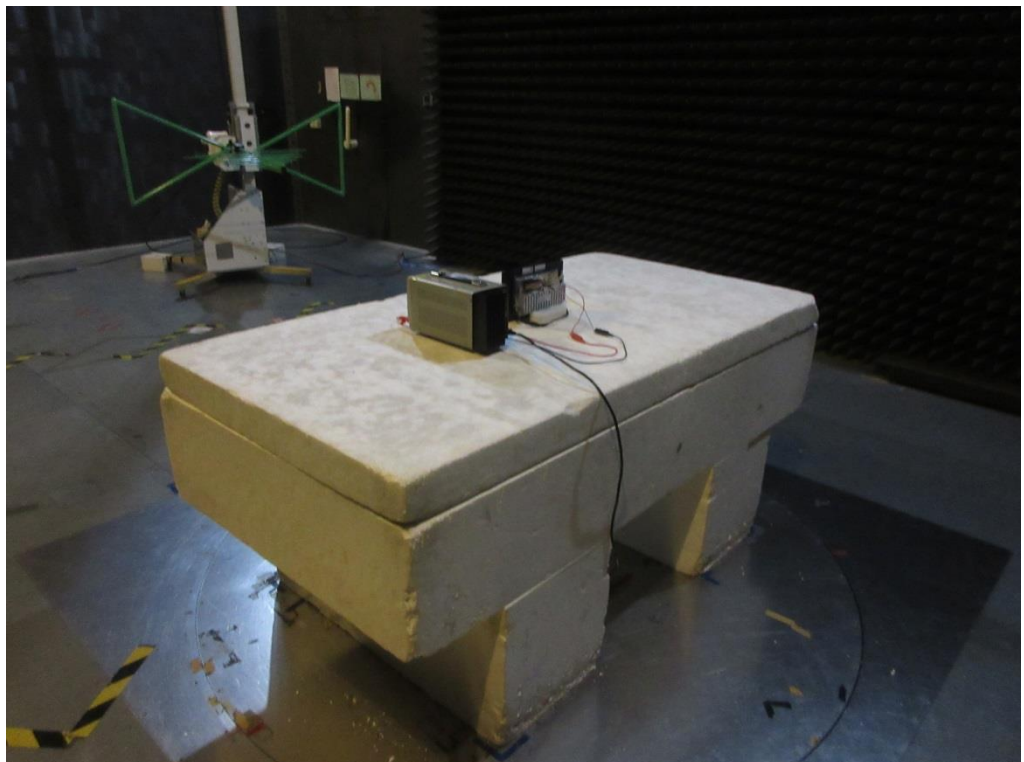
2. Photographs of Radiated Emissions Test Configuration-TX Mode

For radiated emissions 30MHz~1GHz

Front View

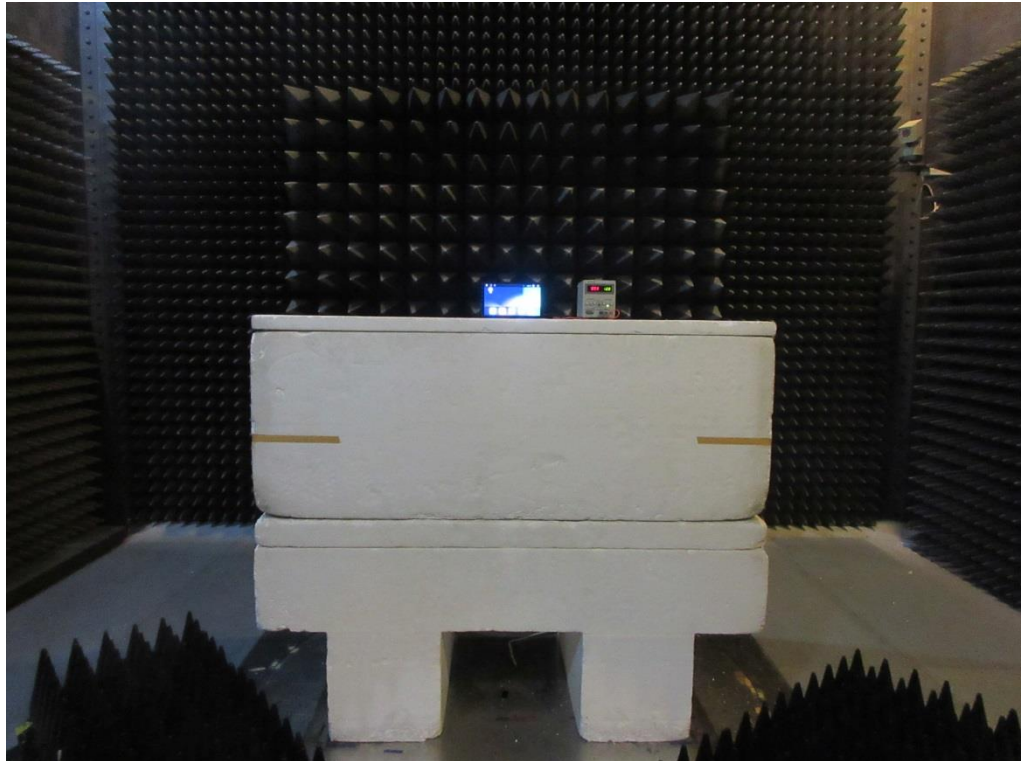


Rear View



For radiated emissions above 1GHz

Front View



Rear View



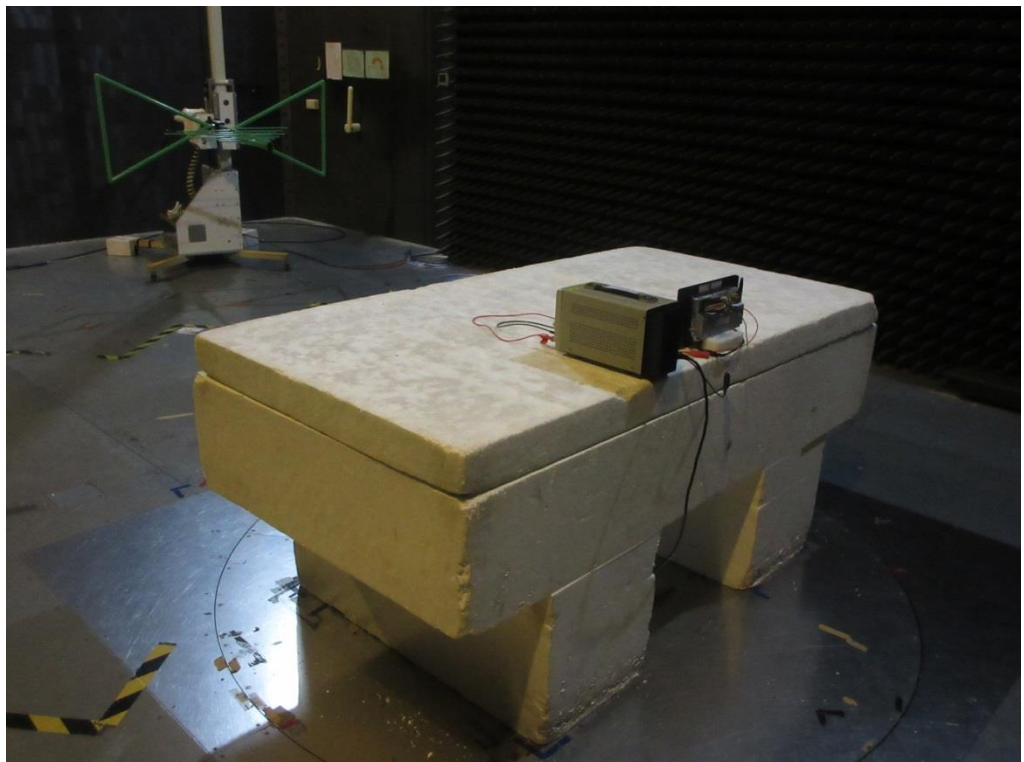
3. Photographs of Radiated Emissions Test Configuration-RX mode

For radiated emissions 30MHz~1GHz

Front view

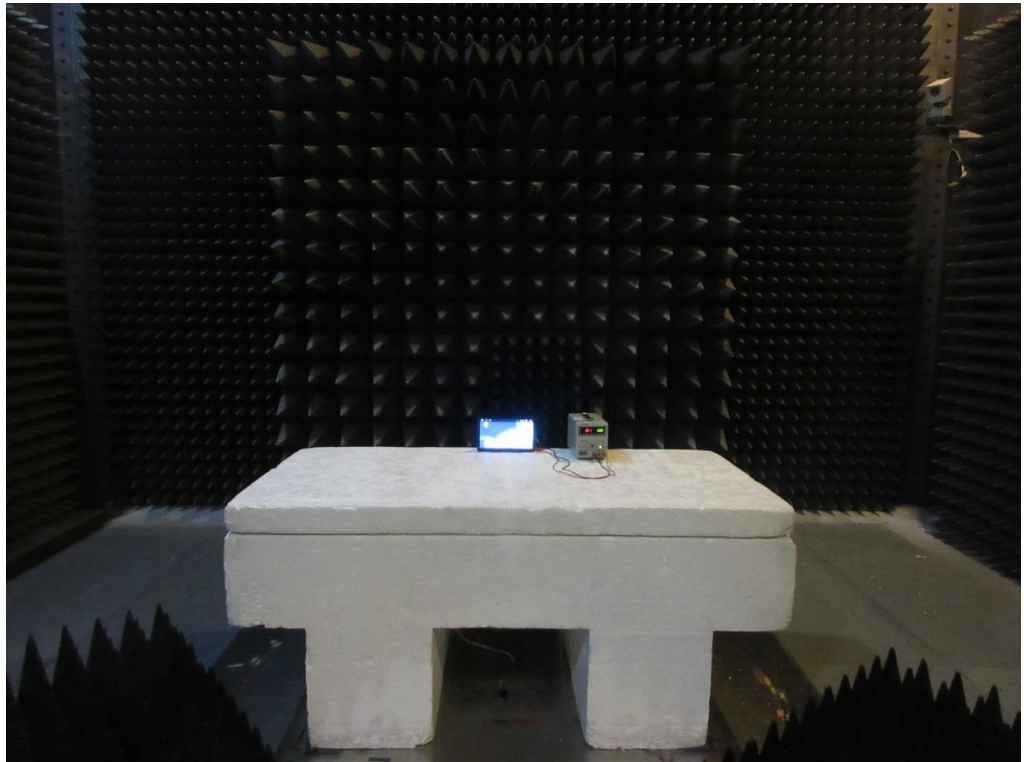


Rear view

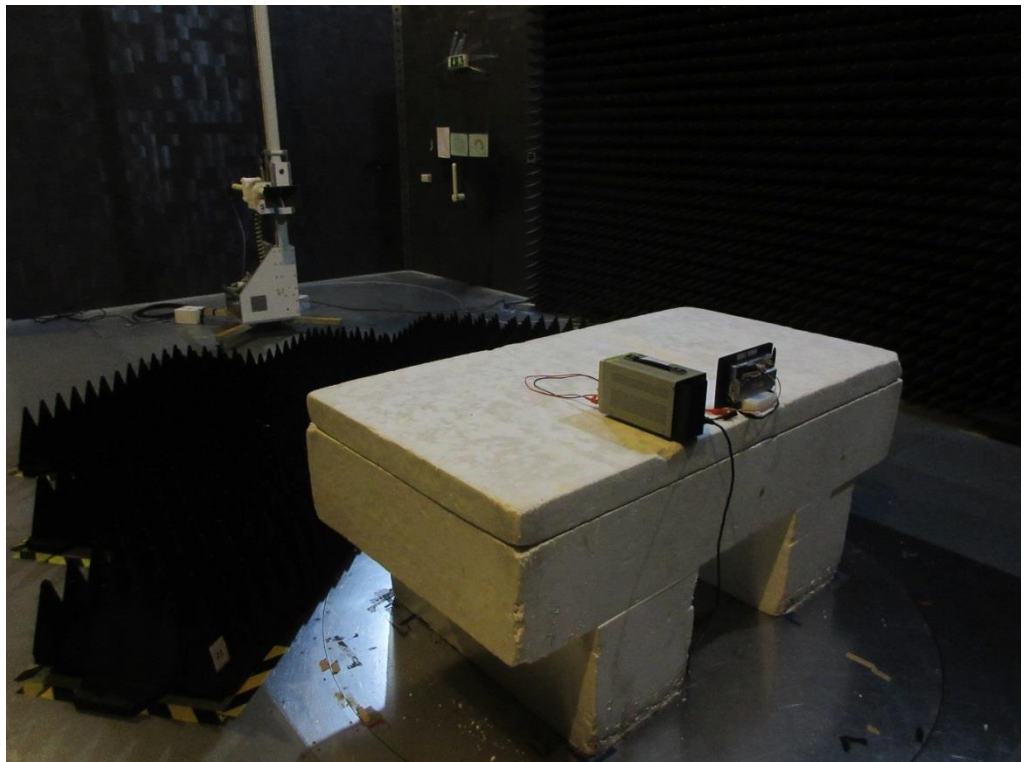


For radiated emissions above 1GHz

Front view



Rear view



————THE END————