

FCC Test Report

FCC ID : 2A09Z-B5736
Equipment : Media Receiver
Model Name : B81AO1xxxx(Where "x" in model name
can be 0 to 9, A to Z, a to z, "/", "-" or
blank, for marketing purpose only)
Applicant : MCBP Technologies, LLC
103 Foulk Road, Suite 202, Wilmington,
DE 19803
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 30, 2018, and testing was started from Aug. 03, 2018 and completed on Aug. 08, 2018. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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



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History of this test report

Report No.	Version	Description	Issued Date
FR860527AC	01	Initial issue of report	Aug. 13, 2018
FR860527AC	02	Revise Radiated Emission Co-location data	Aug. 17, 2018

Summary of Test Result

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

Reviewed by: Sam Chen

Report Producer: Ann Hou

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	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX

Note:

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

1.1.2 Antenna Information

Ant.	Port	Part number (Main)	Part number (Aux)	Antenna Type	Connector
1	1	ADP6P-100000	-	PIFA	I-PEX
2	2	-	ADP6P-100001	PIFA	I-PEX

Ant.	Port	Gain (dBi)					
		2.4G	U-NII-1	U-NII-2A	U-NII-2C	U-NII-3	BT
1	1	1.90	1.84	1.84	1.95	1.88	1.9
2	2	1.81	1.60	1.60	1.89	1.89	-

Note 1: The EUT has two antennas.

Note 2 : Higher gain antenna was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4 GHz function:

For IEEE 802.11b/g/n mode (2TX/2RX)

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

For 5 GHz function:

For IEEE 802.11a/n/ac mode (2TX/2RX)

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

For Bluetooth function:

For Bluetooth mode (1TX/1RX)

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

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From AC Adapter			
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_Nss1,(1Mbps)	0.986	0.061	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11b_Nss1,(11Mbps)	0.939	0.273	1.307m	1k
802.11g_Nss1,(6Mbps)	0.952	0.214	2.066m	1k
802.11g_Nss1,(54Mbps)	0.963	0.164	2.4m	1k
802.11n HT20_Nss1,(MCS0)	0.926	0.334	1.294m	1k
802.11n HT20_Nss2,(MCS8)	0.955	0.2	1.911m	1k
802.11n HT20_Nss2,(MCS15)	0.921	0.357	1.034m	1k

1.2 Testing Applied Standards

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

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

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
Test site Designation No. TW1190 with FCC.			
☐	JHUBEI	ADD : No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County, Taiwan (R.O.C.)	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085
Test site Designation No. TW0006 with FCC.			

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
AC Conduction	CO04-HY	Jeff	24.2°C / 53%	07/Aug/2018
RF Conducted	TH01-HY	Barry	23.5°C / 65%	03/Aug/2018
Radiated	03CH09-HY	Andy	23.8°C / 59%	03/Aug/2018
Radiated (co-location)	03CH09-HY	Andy	24.2°C / 61%	08/Aug/2018

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.0 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
TnomVnom	Tnom	20°C
-	Vnom	110V

2.2 Test Channel Mode

Test Software Version	QRCT Version3.0.303.0
-----------------------	-----------------------

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	20
2437MHz	20
2462MHz	20
802.11b_Nss1,(11Mbps)_2TX	-
2412MHz	20
2437MHz	20
2462MHz	20
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	18.5
2437MHz	18.5
2462MHz	18.5
802.11g_Nss1,(54Mbps)_2TX	-
2412MHz	18
2437MHz	18
2457MHz	18
2462MHz	16.5
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	18.5
2437MHz	18.5
2462MHz	17
802.11n HT20_Nss2,(MCS8)_2TX	-
2412MHz	18.5
2437MHz	18.5
2457MHz	18.5
2462MHz	17



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Mode	PowerSetting
802.11n HT20_Nss2,(MCS15)_2TX	-
2412MHz	17
2417MHz	18.5
2437MHz	18.5
2452MHz	18.5
2457MHz	18
2462MHz	15

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
1	Adapter 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		
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.		
Operating Mode < 1GHz	CTX		
1	Adapter mode		
Operating Mode > 1GHz	CTX		
Orthogonal Planes of EUT	X Plane	Y Plane	Z Plane
			
Worst Planes of EUT		V	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Test Condition	Radiated measurement
Operating Mode	Normal Link
1	Bluetooth+WLAN 2.4G
2	Bluetooth+WLAN 5G
Refer to Sporton Test Report No.: FA860527 for Co-location RF Exposure Evaluation and Appendix G for Radiated Emission Co-location.	

2.4 Accessories

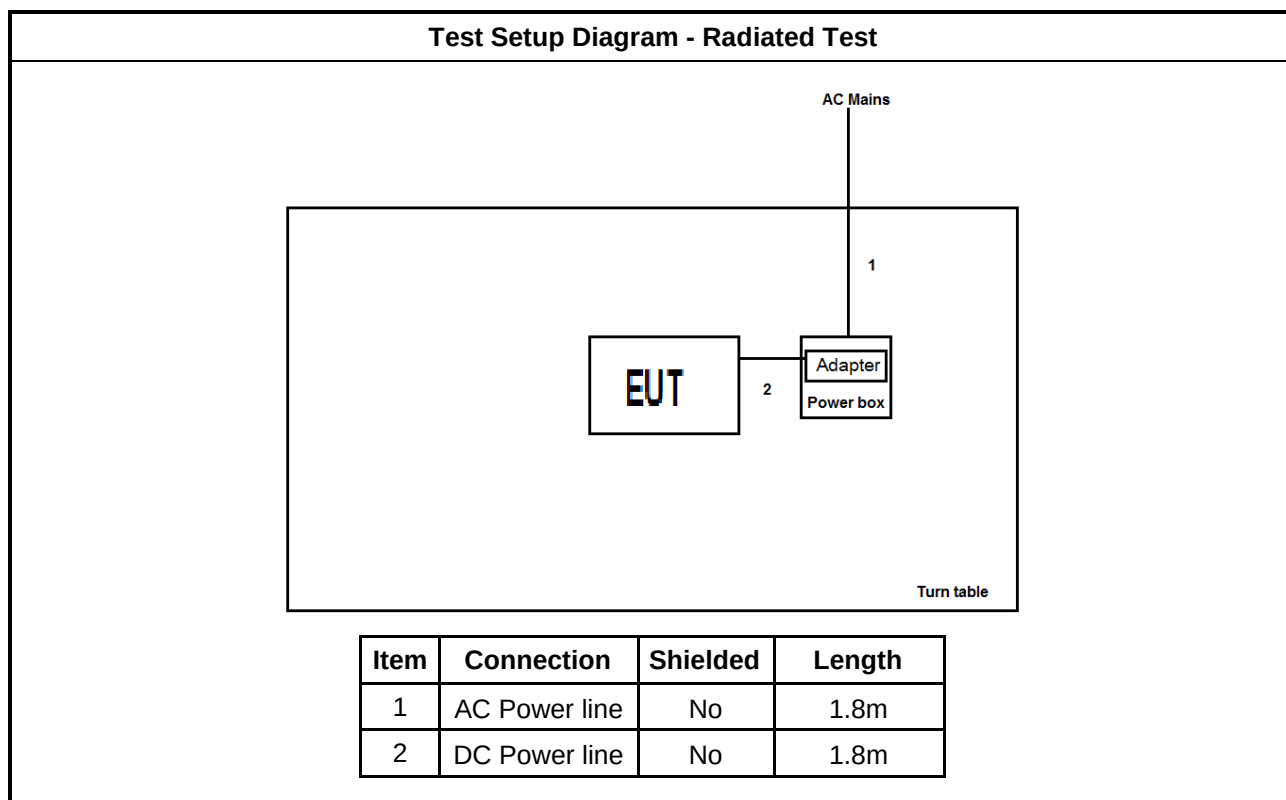
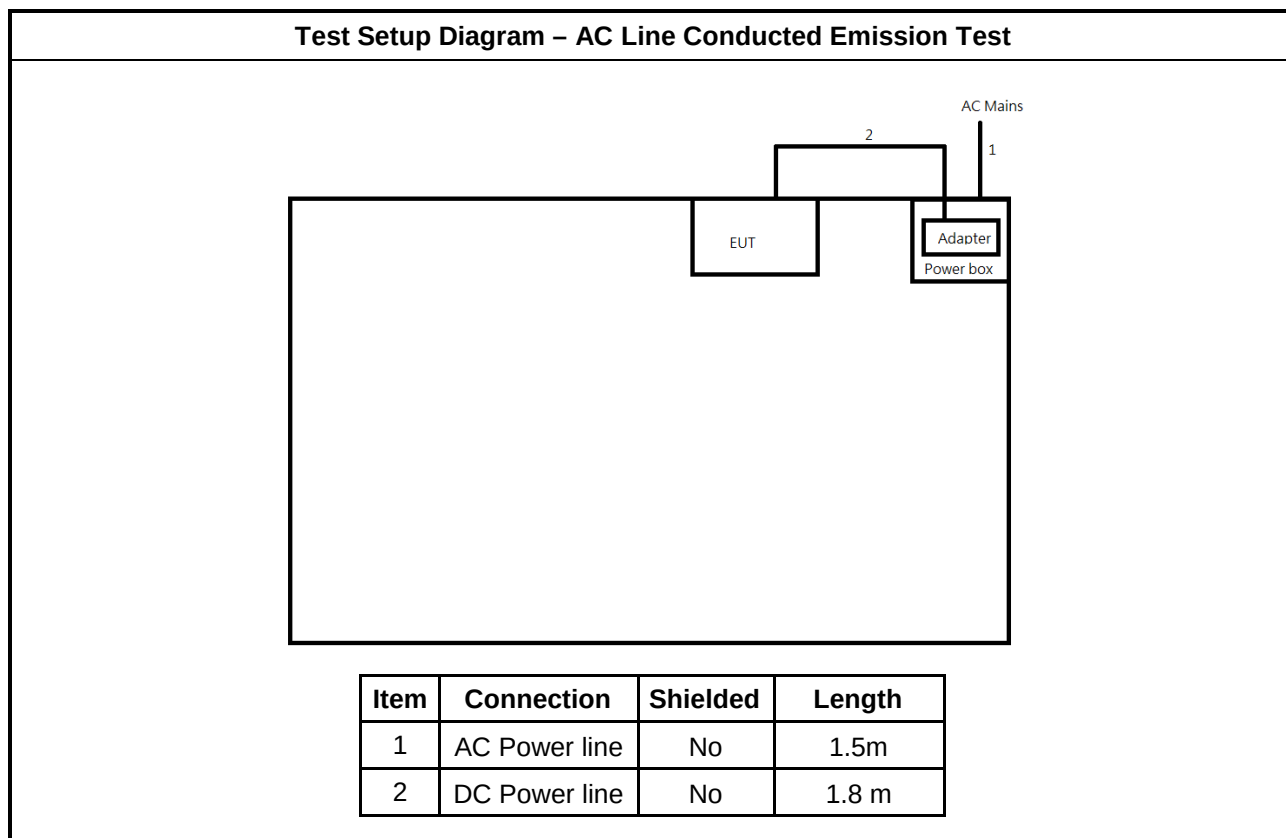
Accessories				
AC Adapter (EU Plug)	Brand Name	Chicony	Model Name	W18-045N1A
	Power Rating	I/P: 100- 240Vac, 1.2A, O/P: 19Vdc, 2.37A		
	Power Cord	1.8meter, Shielded cable, w/o ferrite core		

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

2.5 Support Equipment

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for Notebook	DELL	HA65NM130	DoC
3	AC Power Source	GW	APS-9102	-

2.6 Test Setup Diagram



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.

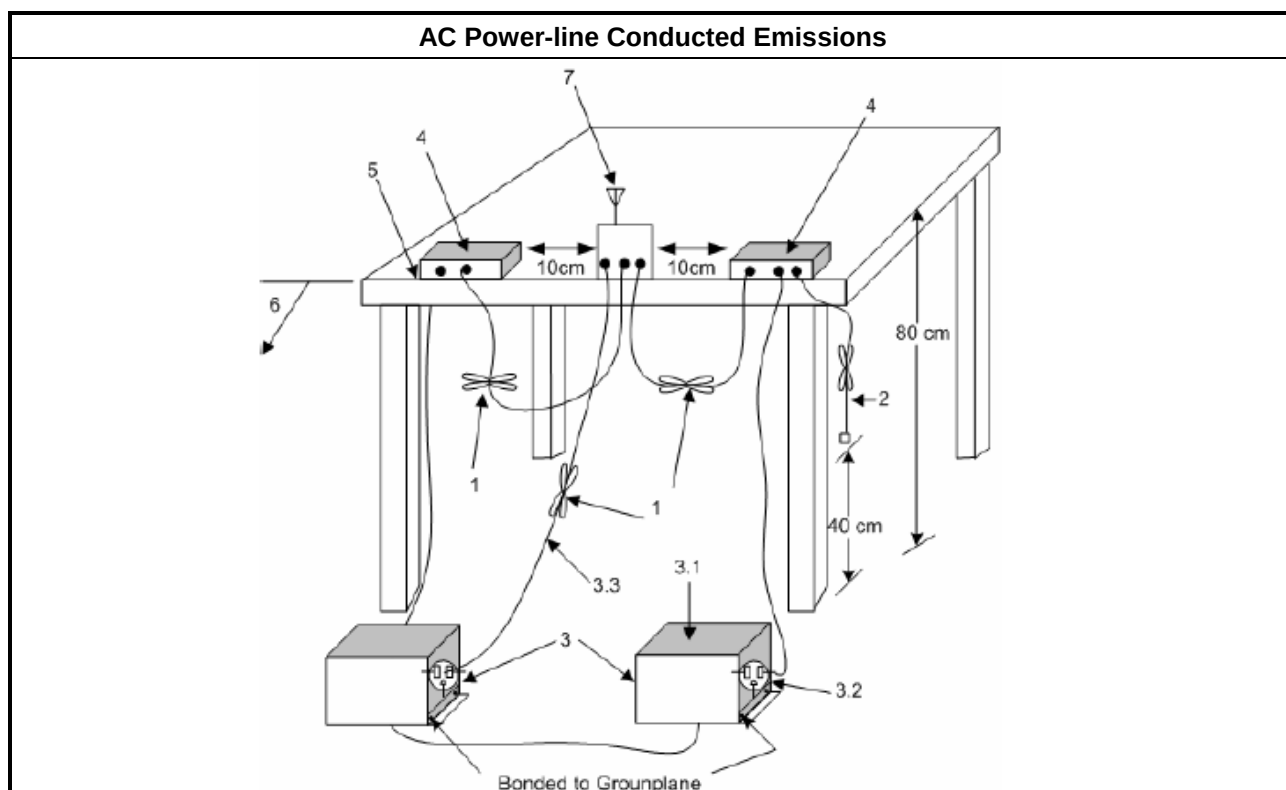
3.1.2 Measuring Instruments

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.

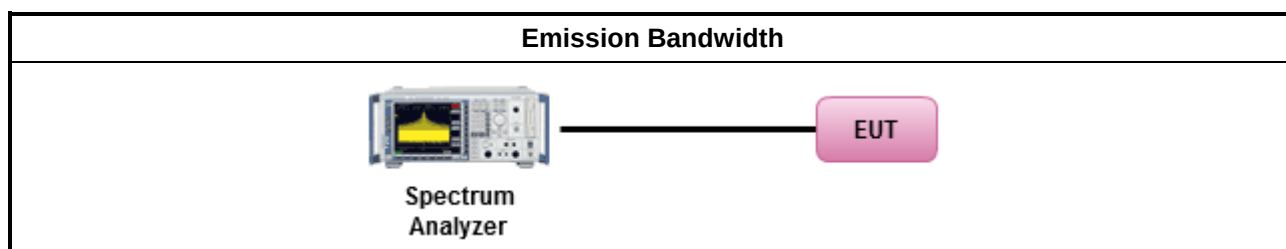
3.2.2 Measuring Instruments

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 8.1 Option 1 for 6 dB bandwidth measurement.
☐	Refer as KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 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.		

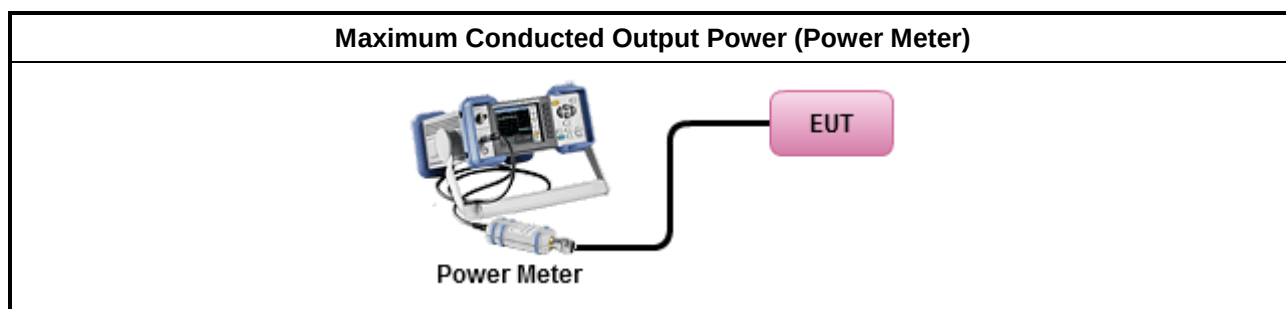
3.3.2 Measuring Instruments

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 9.1.1 Option 1 (RBW ≥ EBW method).
☐	Refer as KDB 558074, clause 9.1.2 Option 2 (integrated band power method)
☐	Refer as KDB 558074, clause 9.1.3 Option 3 (peak power meter for VBW ≥ DTS BW)
Maximum Average Conducted Output Power	
Duty cycle ≥ 98%	
☐	Refer as KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
Duty cycle < 98%	
☐	Refer as KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
☒	Refer as KDB 558074, clause 9.2.3.1 Method AVGPM (using an RF average power meter).
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (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) $\leq$ 8 dBm/3kHz

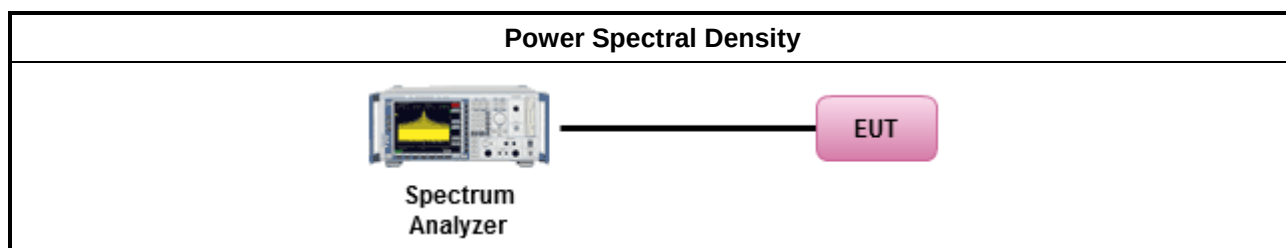
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

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.	

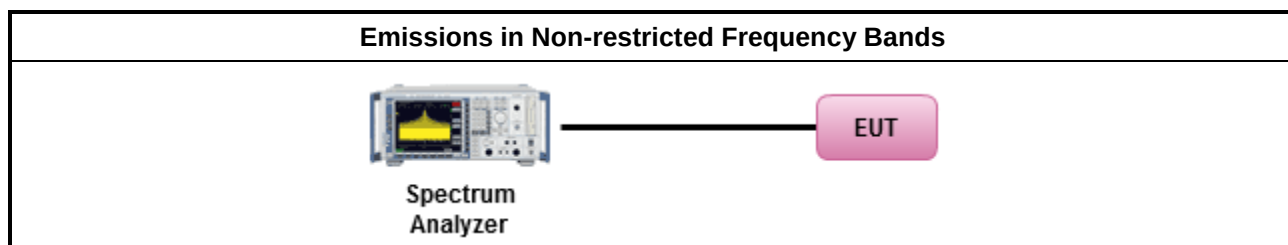
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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.

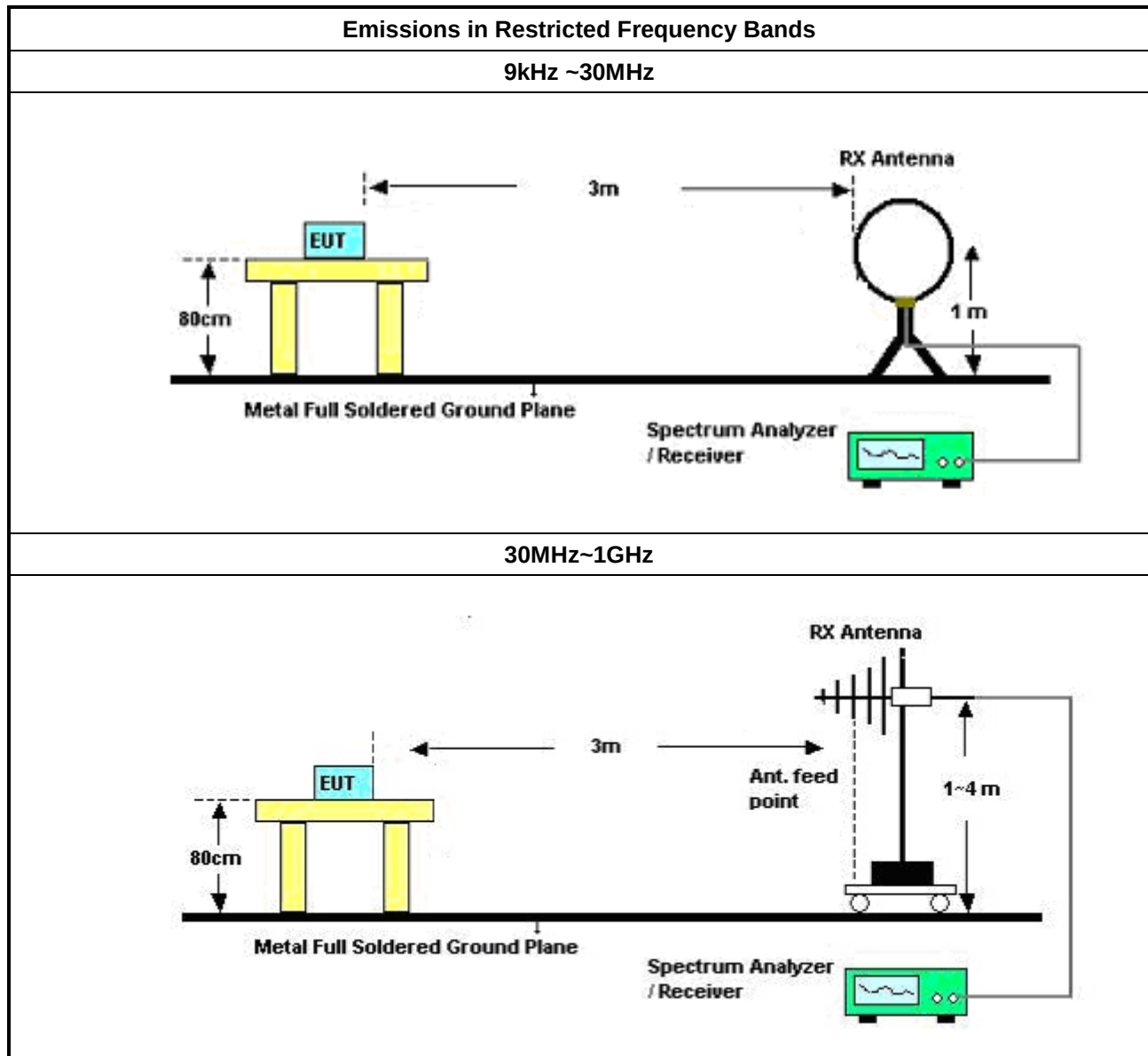
3.6.2 Measuring Instruments

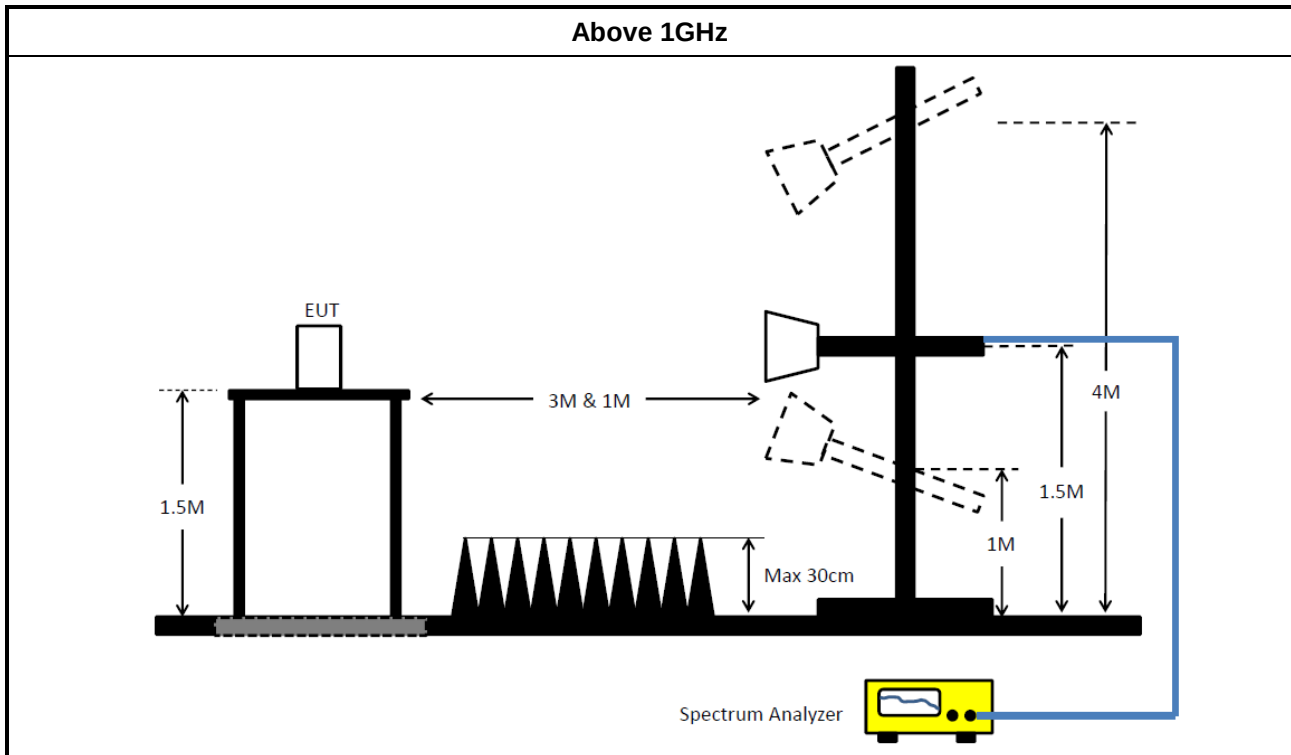
Refer a test equipment and calibration data table in this test report.

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

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

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	17/Nov/2017	16/Nov/2018
RF Cable-CON	HUBER+SUHNER	RG213/U	07611832020001	9kHz~30MHz	06/Oct/2017	05/Oct/2018
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Pulse Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz~30 MHz	12/Oct/2017	11/Oct/2018

NCR : Non-Calibration Require

Instrument for Conducted Test

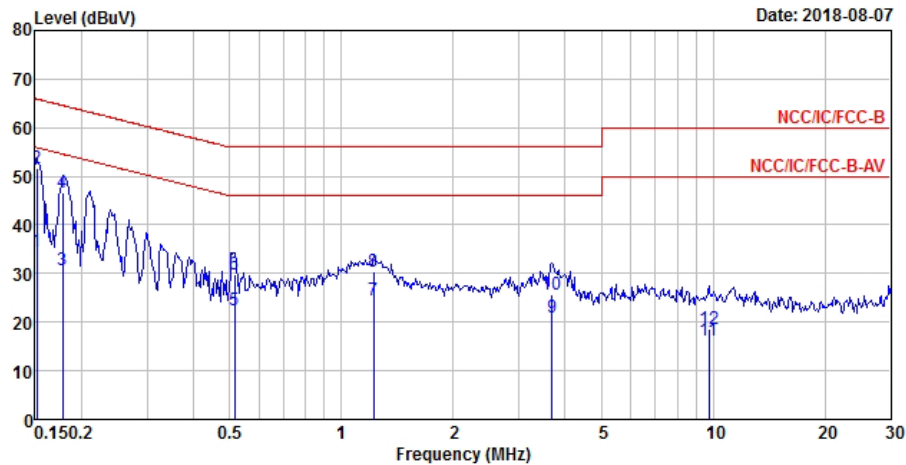
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101515	9kHz~40GHz	08/Dec/2017	07/Dec/2018
Power Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	06/Nov/2017	05/Nov/2018
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	06/Nov/2017	05/Nov/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10710/4	30MHz~26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-0.2m	HUBER+SUHNER	SUCOFLEX_104	MY10709/4	30MHz~26.5GHz	25/Aug/2017	24/Aug/2018
RF Cable-1m	HUBER+SUHNER	SUCOFLEX_104	MY37332/4	30MHz~26.5GHz	26/Jan/2018	25/Jan/2019
Signal Generator	R&S	SMR40	100116	10MHz~40GHz	26/Jul/2018	25/Jul/2019

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz	23/Apr/2018	22/Apr/2019
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz~18GHz	14/Jun/2018	13/Jun/2019
Microwave Preamplifier	Agilent	8449B	3008A02096	1GHz~26.5GHz	10/May/2018	09/May/2019
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	27/Apr/2018	26/Apr/2019
EXA Signal Analyzer	KEYSIGHT	N9010A	SG56070103	10Hz~44GHz	15/Dec/2016	14/Dec/2018
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	09/Sep/2017	08/Sep/2018
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	30/Apr/2018	29/Apr/2019
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	09/Feb/2018	08/Feb/2019
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz~40GHz	24/Aug/2017	23/Aug/2018
Loop Antenna	TESEQ	HLA 6120	31244	9k~30MHz	29/Mar/2018	28/Mar/2019
RF Cable-R03m	Jye Bao	RG142	CB031	9kHz~1GHz	1/Feb/2018	31/Jan/2019
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz~40GHz	14/Mar/2018	13/Mar/2019

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	Adapter Mode		



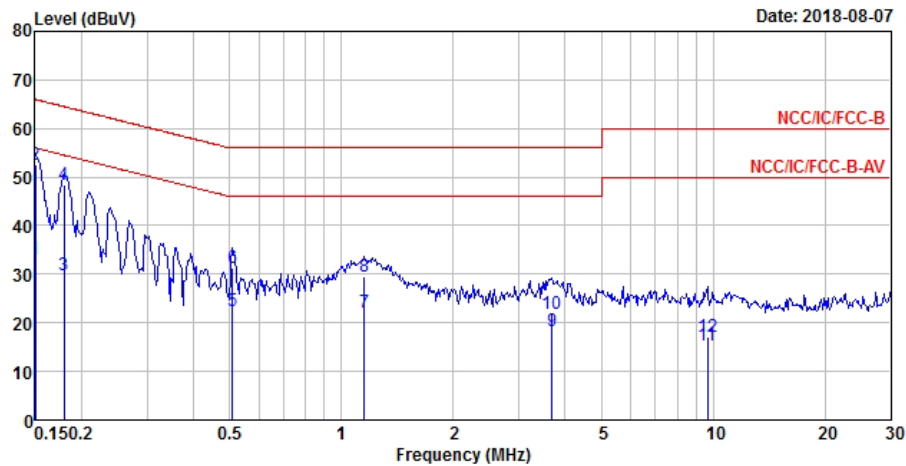
	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	34.46	-21.45	55.91	24.79	9.63	0.04	Average
2 MAX	0.15	51.55	-14.36	65.91	41.88	9.63	0.04	QP
3	0.18	30.80	-23.79	54.59	21.16	9.62	0.02	Average
4	0.18	46.68	-17.91	64.59	37.04	9.62	0.02	QP
5	0.52	22.40	-23.60	46.00	12.72	9.61	0.07	Average
6	0.52	29.83	-26.17	56.00	20.15	9.61	0.07	QP
7	1.22	24.47	-21.53	46.00	14.85	9.62	0.00	Average
8	1.22	30.32	-25.68	56.00	20.70	9.62	0.00	QP
9	3.68	20.87	-25.13	46.00	11.15	9.64	0.08	Average
10	3.68	25.79	-30.21	56.00	16.07	9.64	0.08	QP
11	9.76	16.32	-33.68	50.00	6.43	9.69	0.20	Average
12	9.76	18.65	-41.35	60.00	8.76	9.69	0.20	QP

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

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

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Adapter Mode		



	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	33.21	-22.79	56.00	23.55	9.62	0.04	Average
2 MAX	0.15	52.68	-13.32	66.00	43.02	9.62	0.04	QP
3	0.18	29.79	-24.71	54.50	20.15	9.62	0.02	Average
4	0.18	48.51	-15.99	64.50	38.87	9.62	0.02	QP
5	0.51	22.30	-23.70	46.00	12.62	9.61	0.07	Average
6	0.51	31.29	-24.71	56.00	21.61	9.61	0.07	QP
7	1.15	22.12	-23.88	46.00	12.51	9.61	0.00	Average
8	1.15	29.66	-26.34	56.00	20.05	9.61	0.00	QP
9	3.68	18.33	-27.67	46.00	8.62	9.63	0.08	Average
10	3.68	21.72	-34.28	56.00	12.01	9.63	0.08	QP
11	9.65	15.44	-34.56	50.00	5.58	9.66	0.20	Average
12	9.65	17.19	-42.81	60.00	7.33	9.66	0.20	QP

Note 1: ">20dB" means emission levels that exceed the level of 20 dB below the applicable limit.
 Note 2: "N/F" means Nothing Found emissions (No emissions were detected.)

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,(11Mbps)_2TX	8.1M	14.218M	14M2G1D	7.45M	13.518M
802.11g_Nss1,(6Mbps)_2TX	16.275M	16.517M	16M5D1D	13.55M	16.467M
802.11n HT20_Nss2,(MCS8)_2TX	16.9M	17.691M	17M7D1D	11.575M	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;

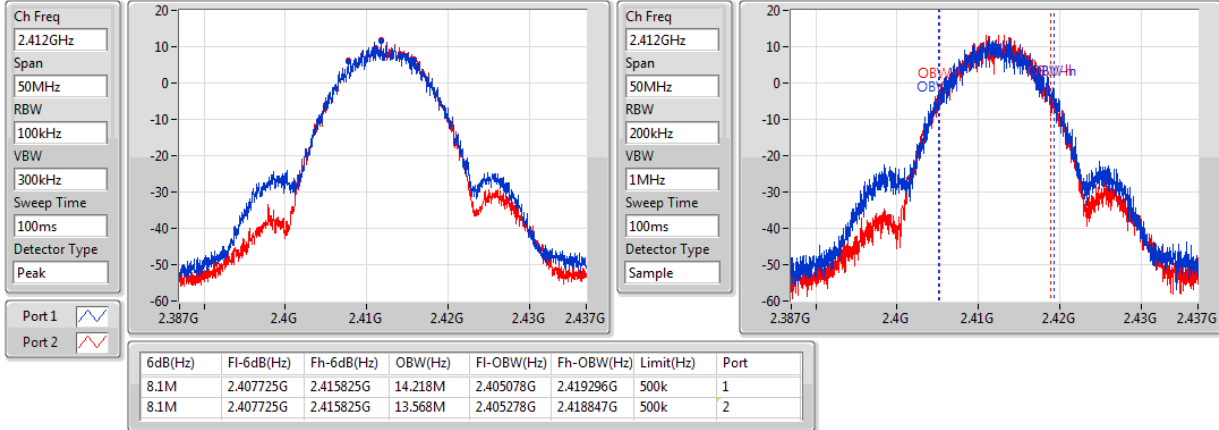
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(11Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	8.1M	14.218M	8.1M	13.568M
2437MHz_TnomVnom	Pass	500k	8.075M	13.668M	8.075M	13.818M
2462MHz_TnomVnom	Pass	500k	8.075M	13.893M	7.45M	13.518M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.025M	16.517M	15.425M	16.517M
2437MHz_TnomVnom	Pass	500k	16.275M	16.467M	15.425M	16.492M
2462MHz_TnomVnom	Pass	500k	15.7M	16.492M	13.55M	16.467M
802.11n HT20_Nss2,(MCS8)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	16.5M	17.691M	15.9M	17.691M
2437MHz_TnomVnom	Pass	500k	16.9M	17.691M	16.325M	17.666M
2462MHz_TnomVnom	Pass	500k	16.275M	17.666M	11.575M	17.691M

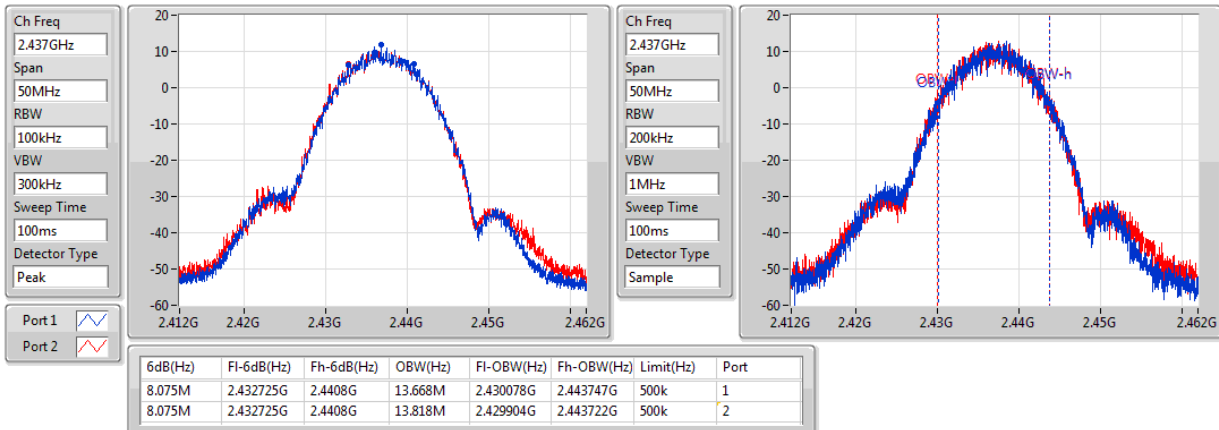
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(11Mbps)_2TX
EBW
2412MHz

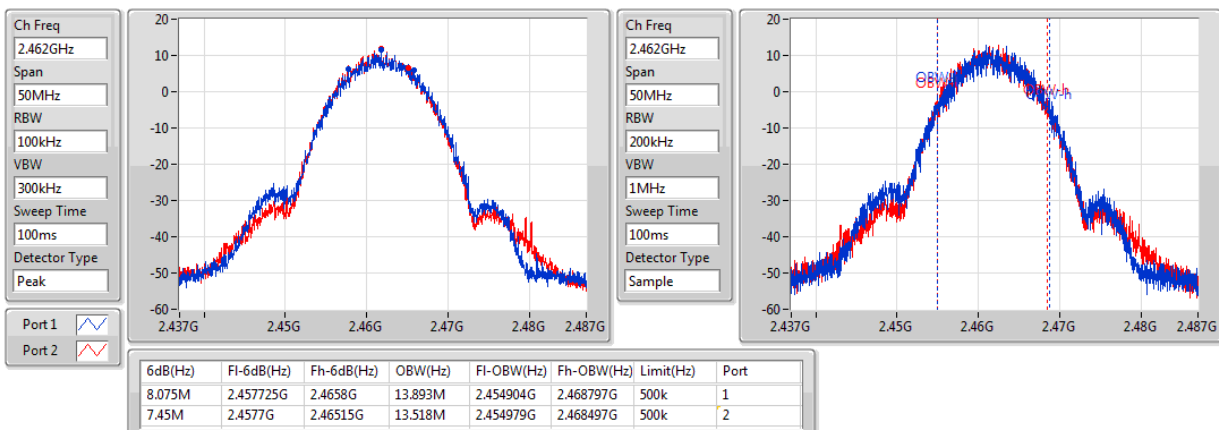
02/08/2018


802.11b_Nss1,(11Mbps)_2TX
EBW
2437MHz

02/08/2018

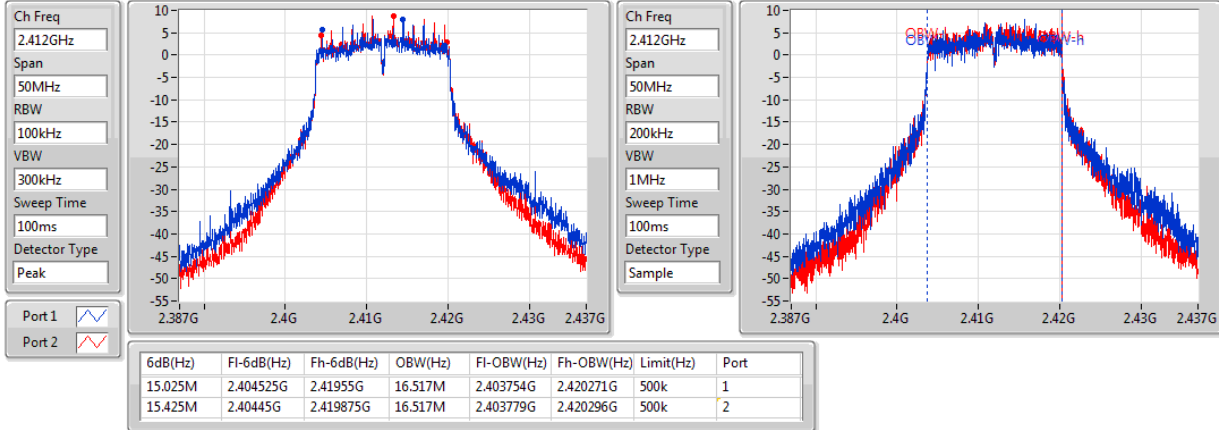

802.11b_Nss1,(11Mbps)_2TX
EBW
2462MHz

02/08/2018

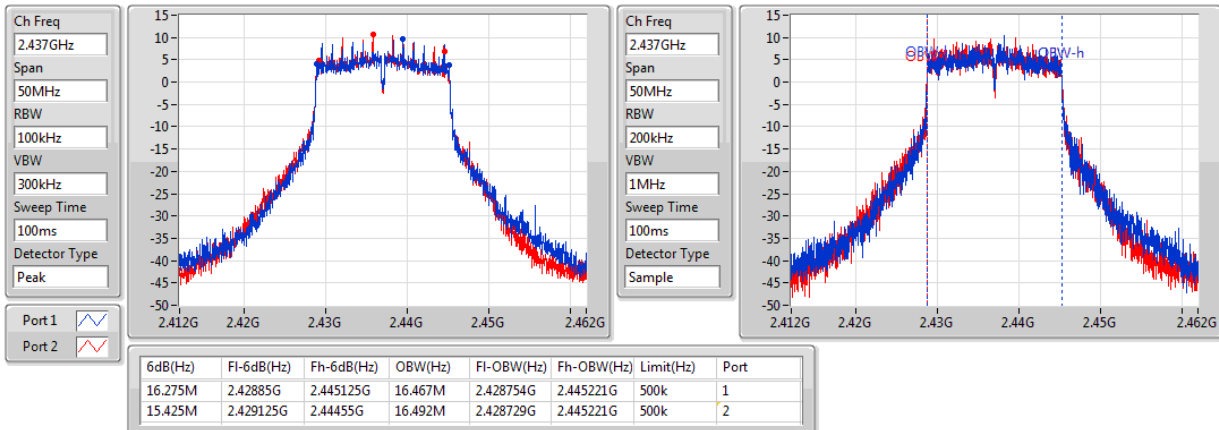


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

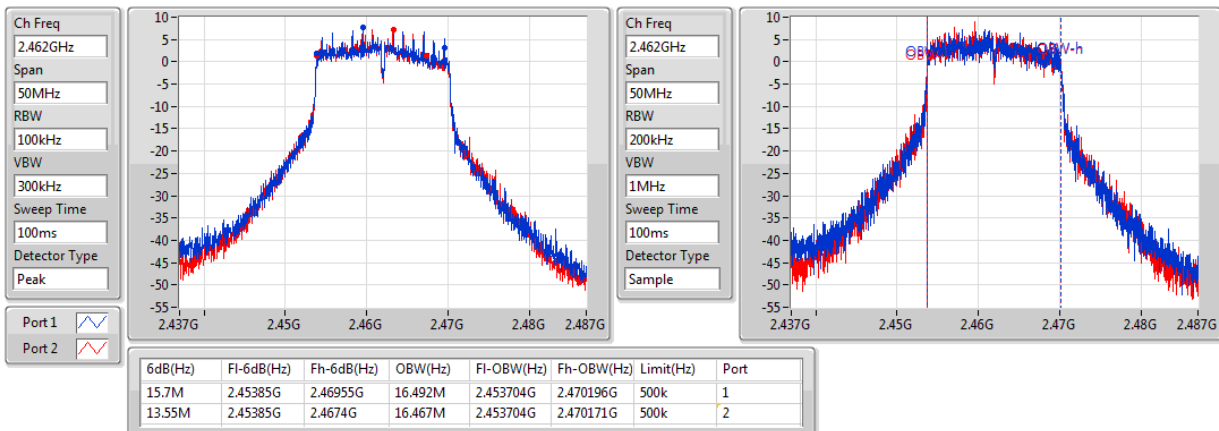
02/08/2018


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

02/08/2018

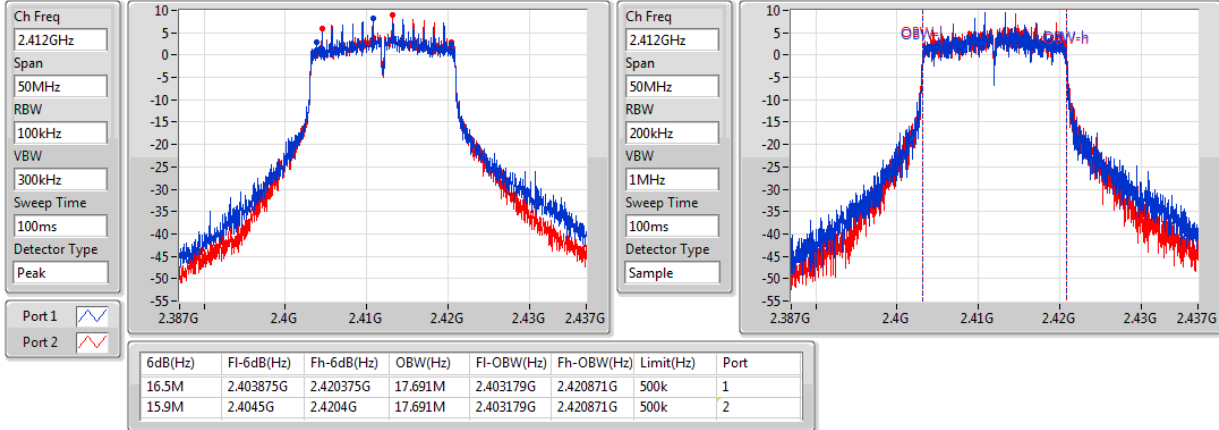

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

02/08/2018

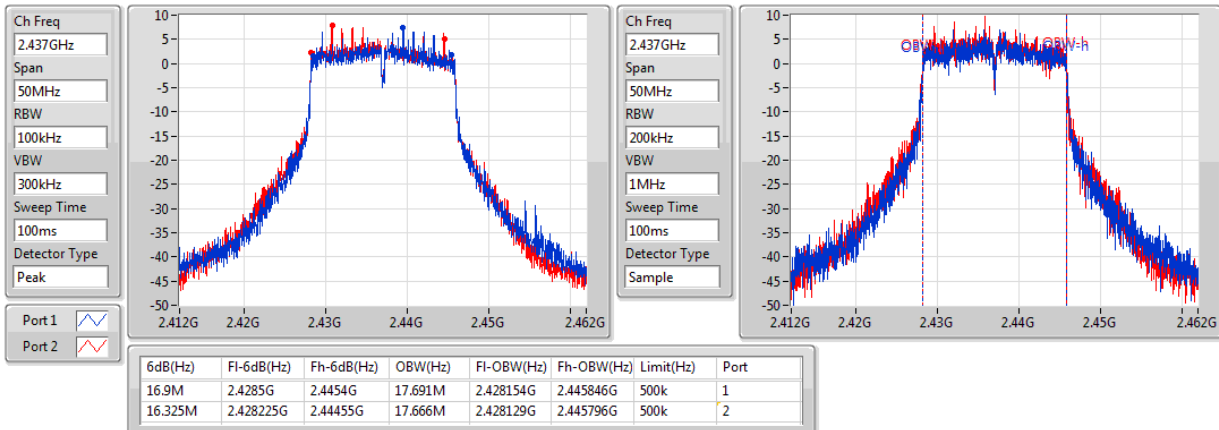


802.11n HT20_Nss2,(MCS8)_2TX
EBW
2412MHz

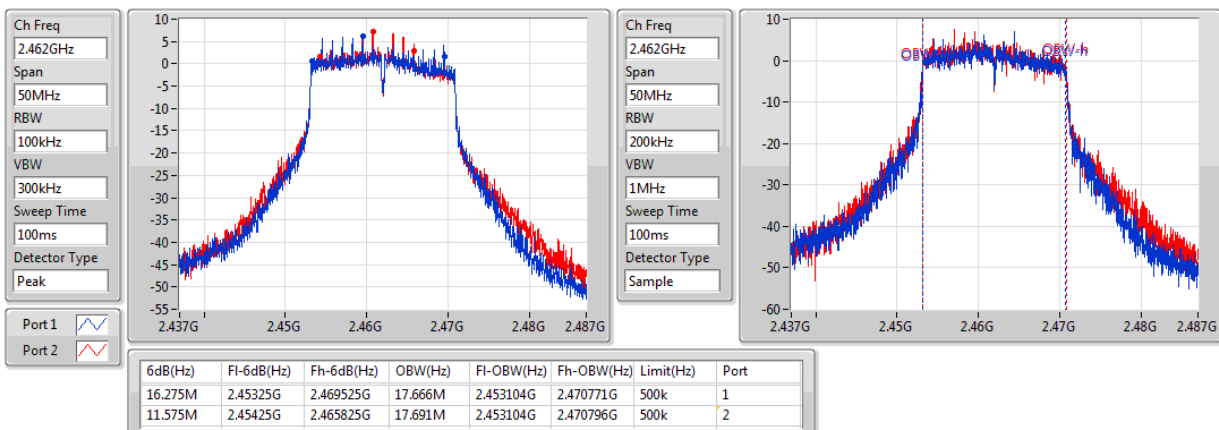
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802.11n HT20_Nss2,(MCS8)_2TX
EBW
2437MHz

02/08/2018


802.11n HT20_Nss2,(MCS8)_2TX
EBW
2462MHz

02/08/2018



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	23.55	0.22646
802.11b_Nss1,(11Mbps)_2TX	23.64	0.23121
802.11g_Nss1,(6Mbps)_2TX	21.57	0.14355
802.11g_Nss1,(54Mbps)_2TX	21.38	0.13740
802.11n HT20_Nss1,(MCS0)_2TX	21.44	0.13932
802.11n HT20_Nss2,(MCS8)_2TX	21.76	0.14989
802.11n HT20_Nss2,(MCS15)_2TX	21.75	0.14962

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.90	20.37	20.7	23.55	30.00
2437MHz_TnomVnom	Pass	1.90	20.23	20.73	23.50	30.00
2462MHz_TnomVnom	Pass	1.90	20.16	20.17	23.18	30.00
802.11b_Nss1,(11Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.90	20.44	20.81	23.64	30.00
2437MHz_TnomVnom	Pass	1.90	20.42	20.60	23.52	30.00
2462MHz_TnomVnom	Pass	1.90	20.29	20.47	23.39	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.90	18.21	18.88	21.57	30.00
2437MHz_TnomVnom	Pass	1.90	18.13	18.83	21.50	30.00
2462MHz_TnomVnom	Pass	1.90	18.23	18.35	21.30	30.00
802.11g_Nss1,(54Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.90	18.2	18.53	21.38	30.00
2437MHz_TnomVnom	Pass	1.90	18.12	18.43	21.29	30.00
2457MHz_TnomVnom	Pass	1.90	17.62	17.85	20.75	30.00
2462MHz_TnomVnom	Pass	1.90	16.4	16.83	19.63	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.90	18.22	18.63	21.44	30.00
2437MHz_TnomVnom	Pass	1.90	18.06	18.51	21.30	30.00
2462MHz_TnomVnom	Pass	1.90	16.43	16.71	19.58	30.00
802.11n HT20_Nss2,(MCS8)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.90	18.32	18.76	21.56	30.00
2437MHz_TnomVnom	Pass	1.90	18.60	18.89	21.76	30.00
2457MHz_TnomVnom	Pass	1.90	18.06	18.22	21.15	30.00
2462MHz_TnomVnom	Pass	1.90	16.52	16.78	19.66	30.00
802.11n HT20_Nss2,(MCS15)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.90	17	17.52	20.28	30.00
2417MHz_TnomVnom	Pass	1.90	18.49	18.85	21.68	30.00
2437MHz_TnomVnom	Pass	1.90	18.53	18.92	21.74	30.00
2452MHz_TnomVnom	Pass	1.90	18.55	18.93	21.75	30.00
2457MHz_TnomVnom	Pass	1.90	17.75	17.87	20.82	30.00
2462MHz_TnomVnom	Pass	1.90	15.06	15.20	18.14	30.00



AV Power Result

Appendix C

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,(11Mbps)_2TX	0.58
802.11g_Nss1,(6Mbps)_2TX	-5.63
802.11n HT20_Nss2,(MCS8)_2TX	-5.94

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(11Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.91	-2.59	-2.28	0.58	8.00
2437MHz_TnomVnom	Pass	4.91	-2.63	-2.31	0.54	8.00
2462MHz_TnomVnom	Pass	4.91	-2.77	-2.31	0.48	8.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	4.91	-10.01	-9.01	-6.98	8.00
2437MHz_TnomVnom	Pass	4.91	-7.21	-7.76	-5.63	8.00
2462MHz_TnomVnom	Pass	4.91	-9.14	-9.40	-7.38	8.00
802.11n HT20_Nss2,(MCS8)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	1.90	-9.00	-8.91	-5.94	8.00
2437MHz_TnomVnom	Pass	1.90	-9.42	-9.36	-6.65	8.00
2462MHz_TnomVnom	Pass	1.90	-9.59	-10.41	-8.75	8.00

DG = Directional Gain; RBW=3kHz;

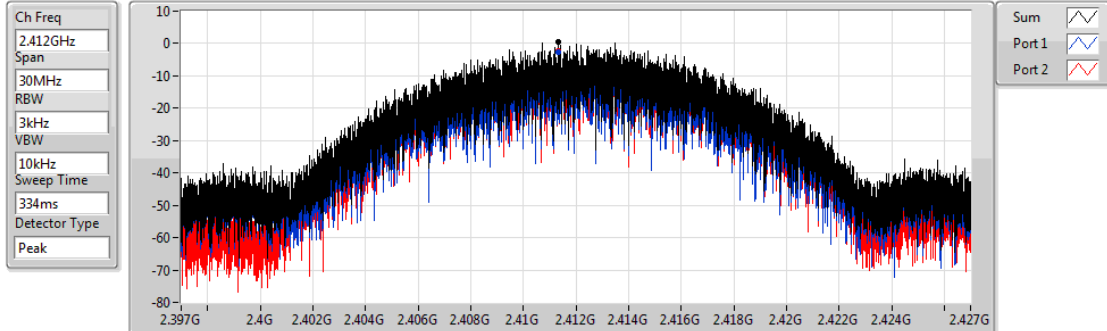
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port Xpower density;

802.11b_Nss1,(11Mbps)_2TX

PSD

2412MHz

02/08/2018



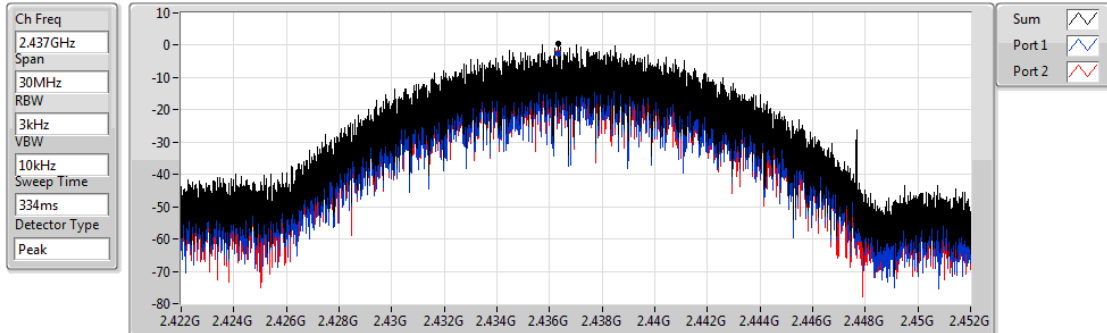
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.58	0.58	-2.59	-2.28

802.11b_Nss1,(11Mbps)_2TX

PSD

2437MHz

02/08/2018



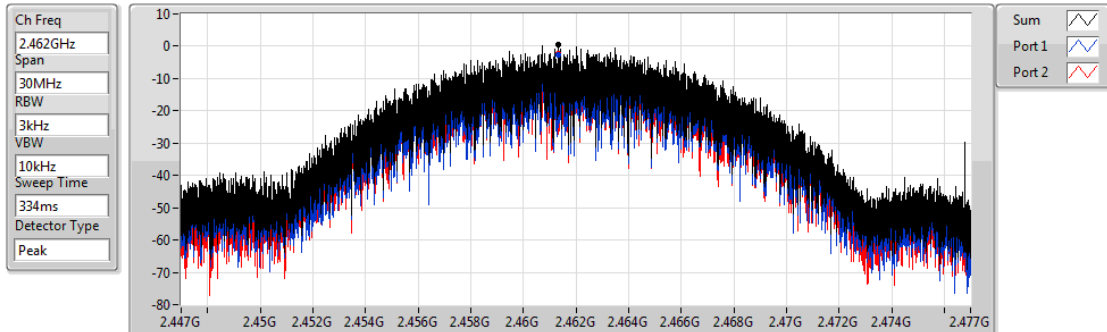
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.54	0.54	-2.63	-2.31

802.11b_Nss1,(11Mbps)_2TX

PSD

2462MHz

02/08/2018



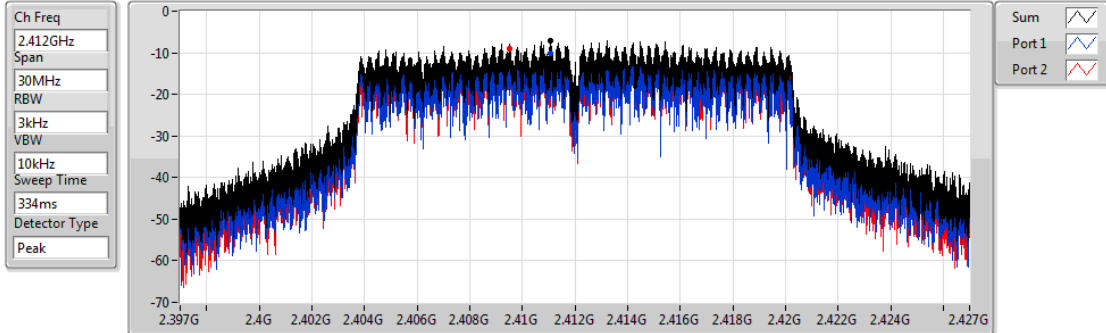
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.48	0.48	-2.77	-2.31

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

02/08/2018



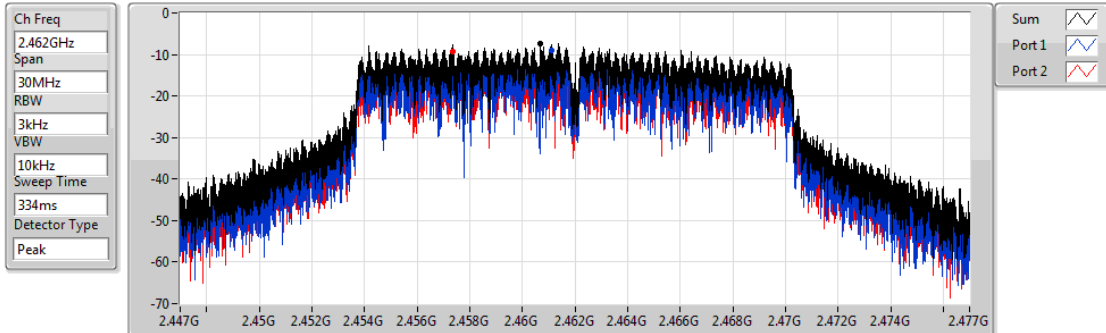
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.98	-6.98	-10.01	-9.01

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

02/08/2018



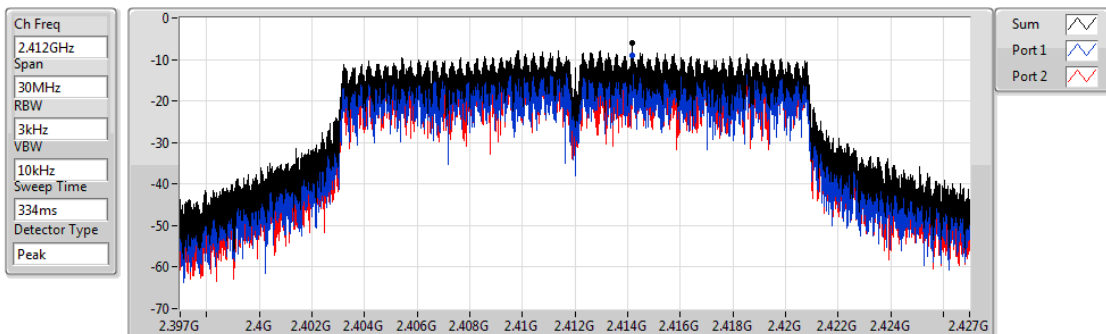
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-7.38	-7.38	-9.14	-9.40

802.11n HT20_Nss2,(MCS8)_2TX

PSD

2412MHz

02/08/2018



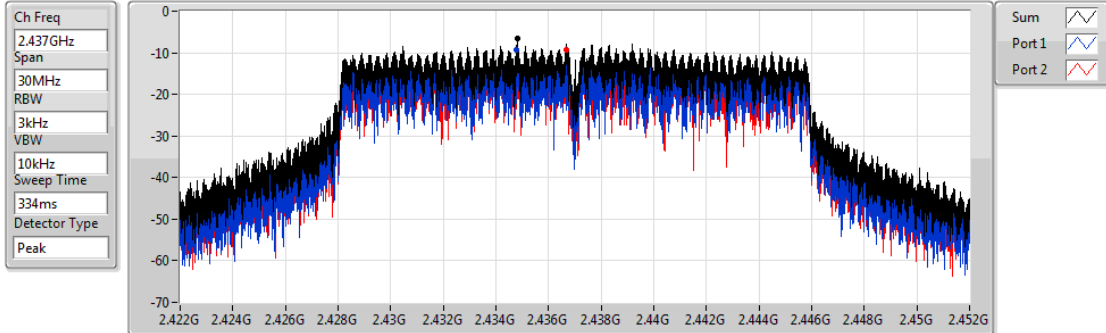
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.94	-5.94	-9.00	-8.91

802.11n HT20_Nss2,(MCS8)_2TX

PSD

2437MHz

02/08/2018



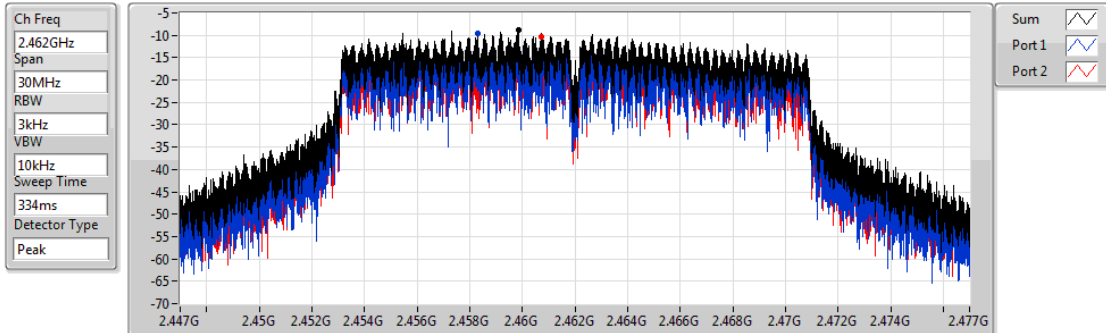
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.65	-6.65	-9.42	-9.36

802.11n HT20_Nss2,(MCS8)_2TX

PSD

2462MHz

02/08/2018



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-8.75	-8.75	-9.59	-10.41

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,(11Mbps)_2TX	Pass	2.41169G	12.18	-17.82	2.11768G	-60.35	2.39864G	-24.03	2.4851G	-56.64	7.240755G	-53.89	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.409519G	6.85	-23.15	2.125835G	-60.41	2.39992G	-23.88	2.48478G	-55.31	9.648551G	-47.77	1
802.11n HT20_Nss2,(MCS8)_2TX	Pass	2.410688G	8.39	-21.61	1.94992G	-60.01	2.39992G	-22.95	2.48462G	-55.57	9.648551G	-47.86	1

Result

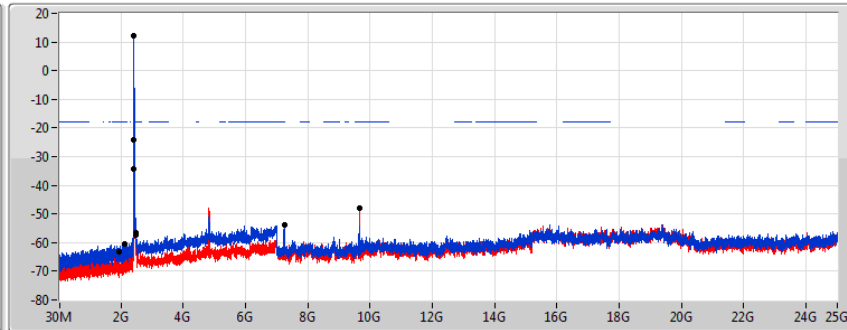
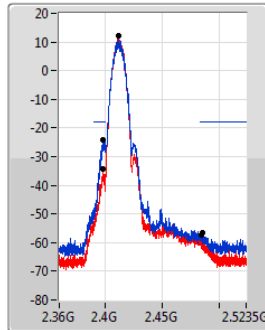
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(11Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.41169G	12.18	-17.82	2.11768G	-60.35	2.39864G	-24.03	2.4851G	-56.64	7.240755G	-53.89	1
2412MHz_TnomVnom	Pass	2.41169G	12.18	-17.82	1.932445G	-63.36	2.39856G	-34.46	2.4843G	-57.48	9.648551G	-48.14	2
2437MHz_TnomVnom	Pass	2.41169G	12.18	-17.82	1.792645G	-59.57	2.39904G	-51.68	2.48862G	-54.80	9.746885G	-52.11	1
2437MHz_TnomVnom	Pass	2.41169G	12.18	-17.82	1.90099G	-65.21	2.3988G	-53.51	2.4859G	-56.33	9.746885G	-47.93	2
2462MHz_TnomVnom	Pass	2.41169G	12.18	-17.82	2.163115G	-59.93	2.3996G	-55.23	2.48398G	-49.46	9.848029G	-51.79	1
2462MHz_TnomVnom	Pass	2.41169G	12.18	-17.82	1.98254G	-59.92	2.39464G	-55.01	2.48398G	-49.52	9.848029G	-49.93	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.409519G	6.85	-23.15	2.125835G	-60.41	2.39992G	-23.88	2.48478G	-55.31	9.648551G	-47.77	1
2412MHz_TnomVnom	Pass	2.409519G	6.85	-23.15	2.300585G	-64.94	2.39984G	-23.89	2.48366G	-54.52	9.648551G	-51.81	2
2437MHz_TnomVnom	Pass	2.409519G	6.85	-23.15	1.78216G	-60.54	2.39328G	-44.22	2.48382G	-51.04	9.746885G	-47.53	1
2437MHz_TnomVnom	Pass	2.409519G	6.85	-23.15	2.195735G	-65.36	2.3968G	-47.96	2.48422G	-50.85	9.746885G	-52.49	2
2462MHz_TnomVnom	Pass	2.409519G	6.85	-23.15	2.13632G	-60.44	2.39968G	-52.82	2.48382G	-44.51	9.848029G	-49.25	1
2462MHz_TnomVnom	Pass	2.409519G	6.85	-23.15	1.98021G	-60.02	2.39952G	-53.18	2.48414G	-46.06	9.848029G	-54.16	2
802.11n HT20_Nss2,(MCS8)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.410688G	8.39	-21.61	1.94992G	-60.01	2.39992G	-22.95	2.48462G	-55.57	9.648551G	-47.86	1
2412MHz_TnomVnom	Pass	2.410688G	8.39	-21.61	1.75886G	-63.28	2.39952G	-23.29	2.48358G	-54.78	9.648551G	-52.54	2
2437MHz_TnomVnom	Pass	2.410688G	8.39	-21.61	2.130495G	-59.08	2.39856G	-46.18	2.4839G	-51.19	9.746885G	-46.04	1
2437MHz_TnomVnom	Pass	2.410688G	8.39	-21.61	2.30874G	-64.66	2.39952G	-47.25	2.48446G	-51.27	9.746885G	-53.68	2
2462MHz_TnomVnom	Pass	2.410688G	8.39	-21.61	1.892835G	-60.45	2.39776G	-52.83	2.48358G	-46.93	9.848029G	-46.99	1
2462MHz_TnomVnom	Pass	2.410688G	8.39	-21.61	2.095545G	-63.70	2.3976G	-52.53	2.48358G	-40.27	15.30139G	-54.75	2

802.11b_Nss1,(11Mbps)_2TX

CSE NdB

2412MHz

02/08/2018



Port 1 
Port 2 

RBW VSW
100kHz 300kHz
Detector Type
Peak

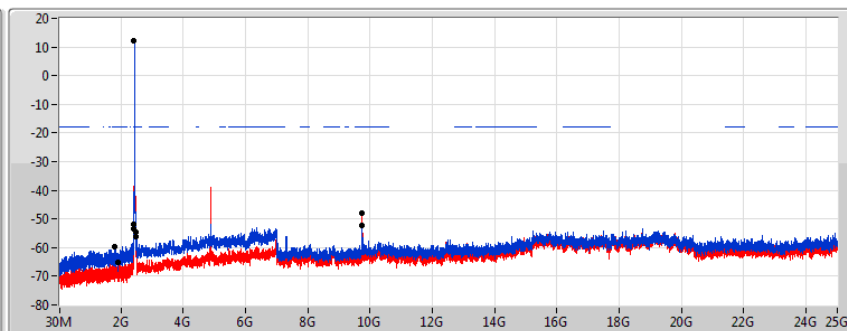
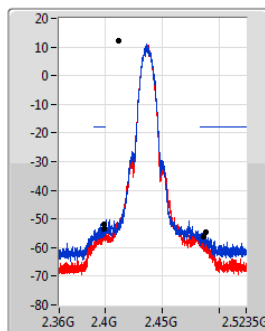
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41169G	12.18	-17.82	2.11768G	-60.35	2.39864G	-24.03	2.4851G	-56.64	7.240755G	-53.89	1
2.41169G	12.18	-17.82	1.932445G	-63.36	2.39856G	-34.46	2.4843G	-57.48	9.648551G	-48.14	2

802.11b_Nss1,(11Mbps)_2TX

CSE NdB

2437MHz

02/08/2018



Port 1 
Port 2 

RBW VSW
100kHz 300kHz
Detector Type
Peak

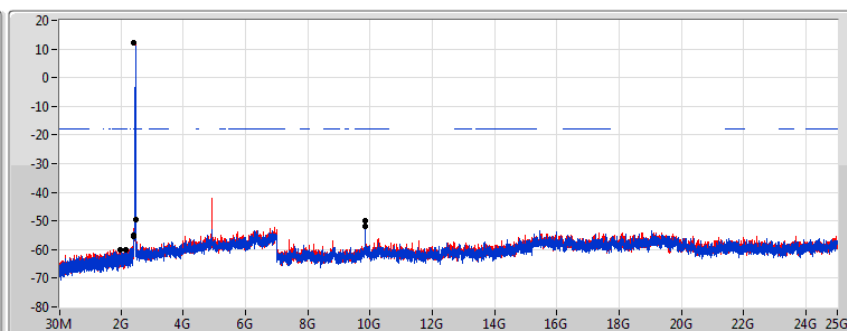
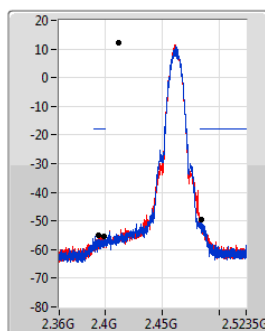
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41169G	12.18	-17.82	1.792645G	-59.57	2.39904G	-51.68	2.48862G	-54.80	9.746885G	-52.11	1
2.41169G	12.18	-17.82	1.90099G	-65.21	2.3988G	-53.51	2.4859G	-56.33	9.746885G	-47.93	2

802.11b_Nss1,(11Mbps)_2TX

CSE NdB

2462MHz

02/08/2018



Port 1 
Port 2 

RBW VSW
100kHz 300kHz
Detector Type
Peak

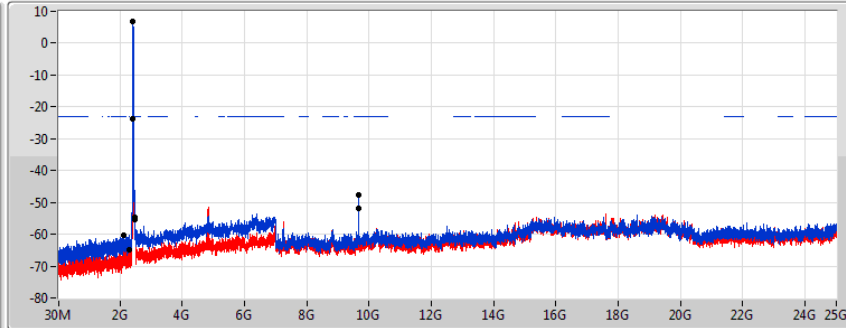
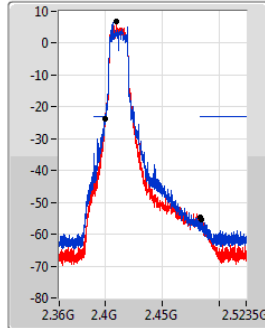
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.41169G	12.18	-17.82	2.163115G	-59.93	2.3996G	-55.23	2.48398G	-49.46	9.848029G	-51.79	1
2.41169G	12.18	-17.82	1.98254G	-59.92	2.39464G	-55.01	2.48398G	-49.52	9.848029G	-49.93	2

802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2412MHz

02/08/2018



Port 1 
Port 2 

RBW VSW
100kHz 300kHz
Detector Type
Peak

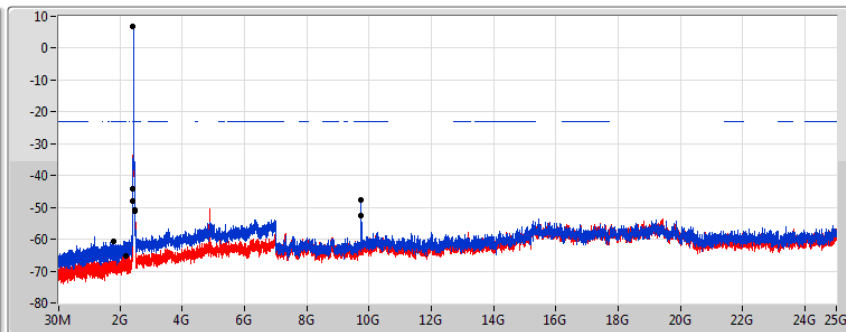
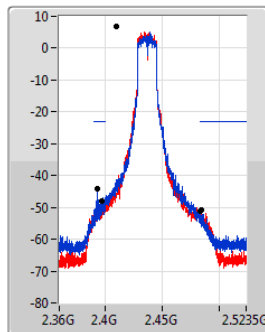
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.409519G	6.85	-23.15	2.125835G	-60.41	2.39992G	-23.88	2.48478G	-55.31	9.648551G	-47.77	1
2.409519G	6.85	-23.15	2.300585G	-64.94	2.39984G	-23.89	2.48366G	-54.52	9.648551G	-51.81	2

802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2437MHz

02/08/2018



Port 1 
Port 2 

RBW VSW
100kHz 300kHz
Detector Type
Peak

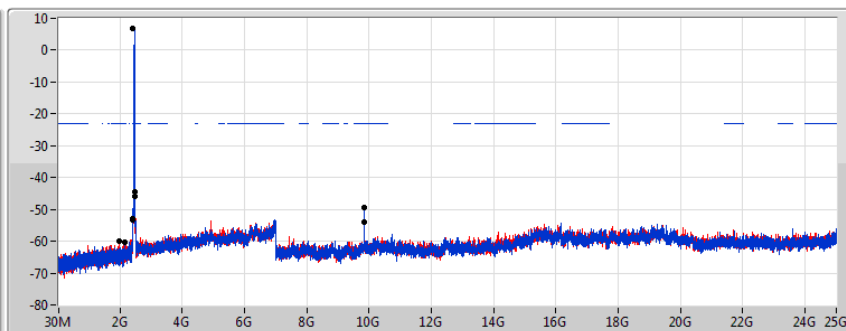
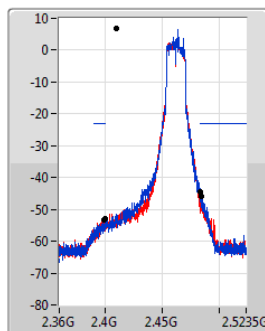
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.409519G	6.85	-23.15	1.78216G	-60.54	2.39328G	-44.22	2.48382G	-51.04	9.746885G	-47.53	1
2.409519G	6.85	-23.15	2.195735G	-65.36	2.3968G	-47.96	2.48422G	-50.85	9.746885G	-52.49	2

802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2462MHz

02/08/2018



Port 1 
Port 2 

RBW VSW
100kHz 300kHz
Detector Type
Peak

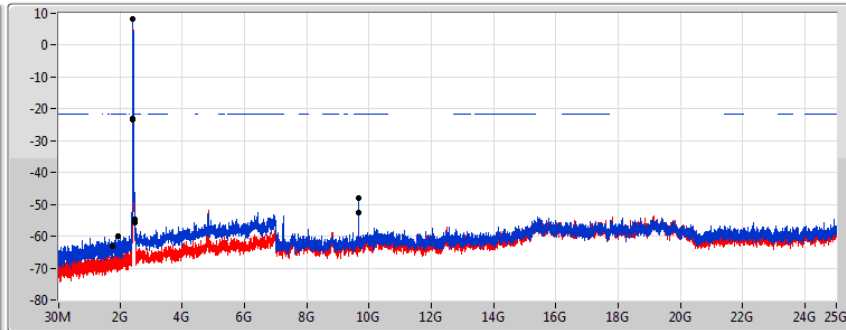
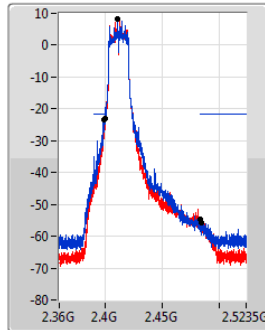
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.409519G	6.85	-23.15	2.13632G	-60.44	2.39968G	-52.82	2.48382G	-44.51	9.848029G	-49.25	1
2.409519G	6.85	-23.15	1.98021G	-60.02	2.39952G	-53.18	2.48414G	-46.06	9.848029G	-54.16	2

802.11n HT20_Nss2,(MCS8)_2TX

CSE NdB

2412MHz

02/08/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

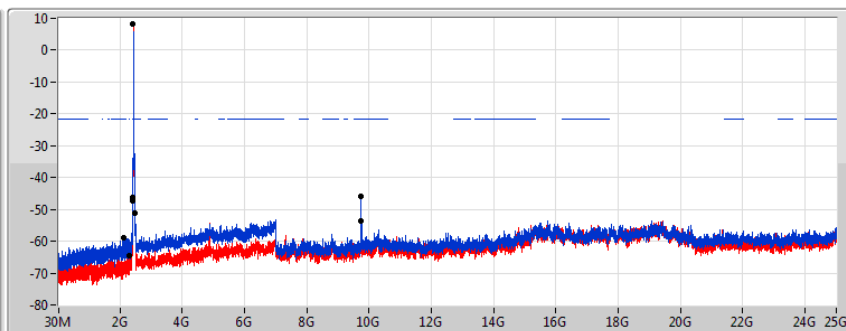
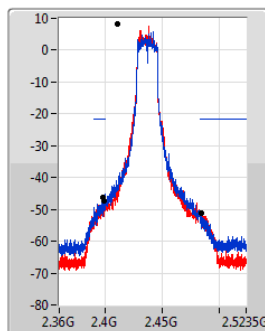
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.410688G	8.39	-21.61	1.94992G	-60.01	2.39992G	-22.95	2.48462G	-55.57	9.648551G	-47.86	1
2.410688G	8.39	-21.61	1.75886G	-63.28	2.39952G	-23.29	2.48358G	-54.78	9.648551G	-52.54	2

802.11n HT20_Nss2,(MCS8)_2TX

CSE NdB

2437MHz

02/08/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

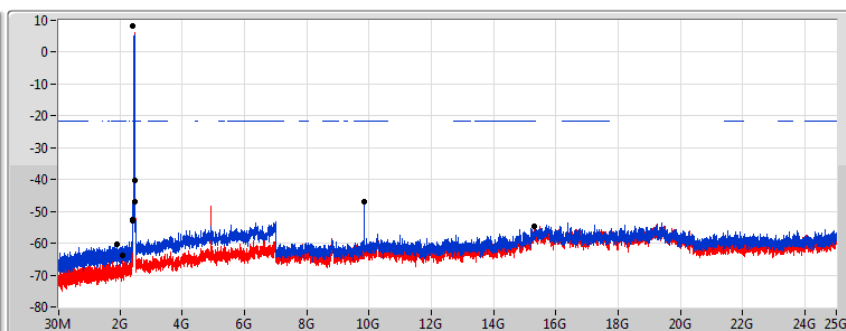
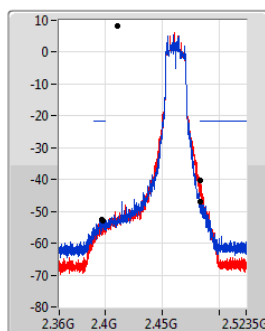
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.410688G	8.39	-21.61	2.130495G	-59.08	2.39856G	-46.18	2.4839G	-51.19	9.746885G	-46.04	1
2.410688G	8.39	-21.61	2.30874G	-64.66	2.39952G	-47.25	2.48446G	-51.27	9.746885G	-53.68	2

802.11n HT20_Nss2,(MCS8)_2TX

CSE NdB

2462MHz

02/08/2018



Port 1 
Port 2 

RBW VBW
100kHz 300kHz
Detector Type
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.410688G	8.39	-21.61	1.892835G	-60.45	2.39776G	-52.83	2.48358G	-46.93	9.848029G	-46.99	1
2.410688G	8.39	-21.61	2.095545G	-63.70	2.3976G	-52.53	2.48358G	-40.27	15.30139G	-54.75	2



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_Nss2,(MCS8)_2TX	Pass	PK	33.88M	32.97	40.00	-7.03	-15.32	3	Vertical	0	1.00	-

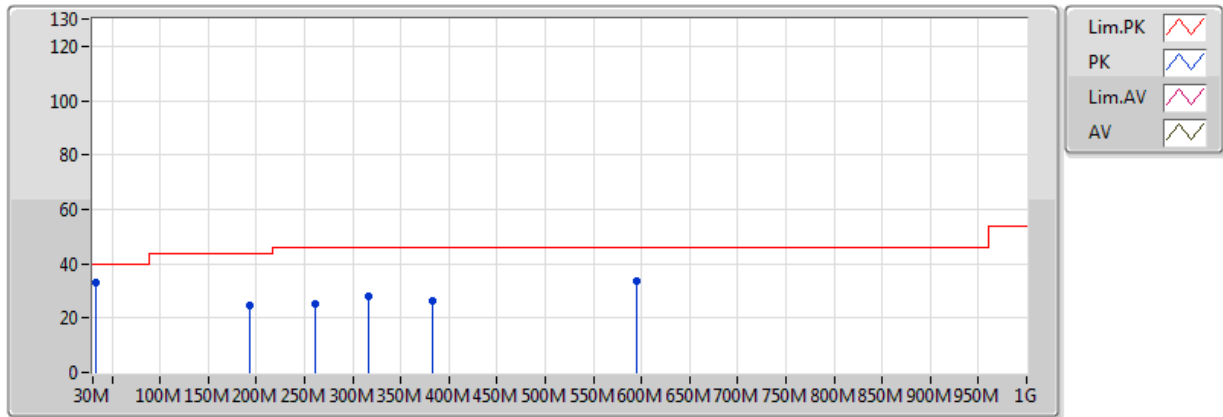
Result

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_Nss2,(MCS8)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	33.88M	32.97	40.00	-7.03	-15.32	3	Vertical	0	1.00	-
2437MHz	Pass	PK	192.96M	24.60	43.50	-18.90	-21.29	3	Vertical	0	1.00	-
2437MHz	Pass	PK	260.86M	25.15	46.00	-20.85	-15.71	3	Vertical	0	1.00	-
2437MHz	Pass	PK	317.12M	28.12	46.00	-17.88	-16.44	3	Vertical	0	1.00	-
2437MHz	Pass	PK	383.08M	26.38	46.00	-19.62	-14.62	3	Vertical	0	1.00	-
2437MHz	Pass	PK	594.54M	33.40	46.00	-12.60	-10.92	3	Vertical	0	1.00	-
2437MHz	Pass	PK	57.16M	24.37	40.00	-15.63	-25.37	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	208.48M	30.59	43.50	-12.91	-20.97	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	253.1M	34.20	46.00	-11.80	-16.68	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	352.04M	28.89	46.00	-17.11	-15.44	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	513.06M	27.08	46.00	-18.92	-12.12	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	559.62M	31.84	46.00	-14.16	-10.31	3	Horizontal	360	1.00	-

802.11n HT20_Nss2,(MCS8)_2TX

2437MHz_Adapter

07/08/2018

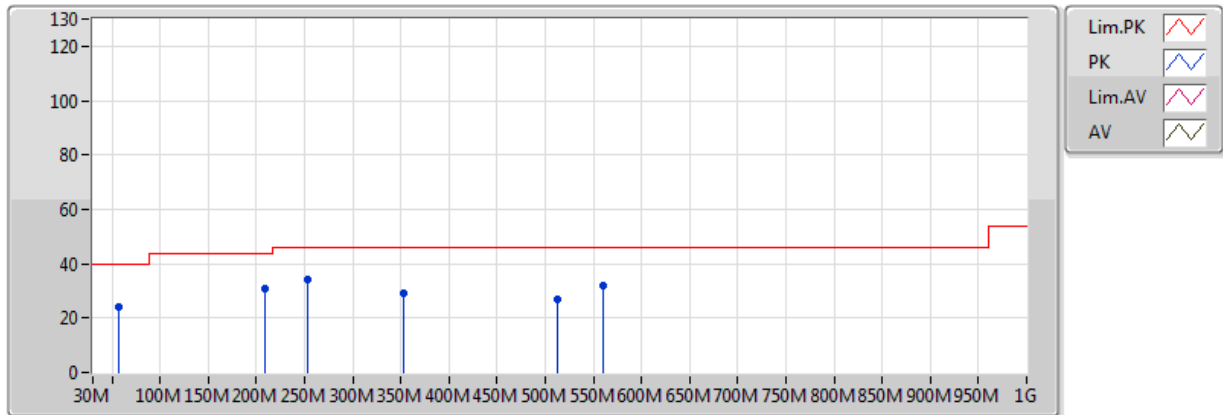


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	33.88M	32.97	40.00	-7.03	-15.32	3	Vertical	0	1.00	-
PK	192.96M	24.60	43.50	-18.90	-21.29	3	Vertical	0	1.00	-
PK	260.86M	25.15	46.00	-20.85	-15.71	3	Vertical	0	1.00	-
PK	317.12M	28.12	46.00	-17.88	-16.44	3	Vertical	0	1.00	-
PK	383.08M	26.38	46.00	-19.62	-14.62	3	Vertical	0	1.00	-
PK	594.54M	33.40	46.00	-12.60	-10.92	3	Vertical	0	1.00	-

802.11n HT20_Nss2,(MCS8)_2TX

2437MHz_Adapter

07/08/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
PK	57.16M	24.37	40.00	-15.63	-25.37	3	Horizontal	360	1.00	-
PK	208.48M	30.59	43.50	-12.91	-20.97	3	Horizontal	360	1.00	-
PK	253.1M	34.20	46.00	-11.80	-16.68	3	Horizontal	360	1.00	-
PK	352.04M	28.89	46.00	-17.11	-15.44	3	Horizontal	360	1.00	-
PK	513.06M	27.08	46.00	-18.92	-12.12	3	Horizontal	360	1.00	-
PK	559.62M	31.84	46.00	-14.16	-10.31	3	Horizontal	360	1.00	-

**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)_2TX	Pass	AV	2.4878G	50.08	54.00	-3.92	31.13	3	Horizontal	247	1.89	-
802.11b_Nss1,(11Mbps)_2TX	Pass	AV	2.483502G	48.72	54.00	-5.28	31.11	3	Horizontal	230	1.50	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.483502G	53.19	54.00	-0.81	31.11	3	Vertical	182	2.21	-
802.11g_Nss1,(54Mbps)_2TX	Pass	AV	2.483502G	53.17	54.00	-0.83	31.11	3	Vertical	175	1.74	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	4.8707G	33.61	54.00	-20.39	2.25	3	Vertical	151	1.67	-
802.11n HT20_Nss2,(MCS8)_2TX	Pass	AV	2.483502G	53.15	54.00	-0.85	31.11	3	Horizontal	144	1.73	-
802.11n HT20_Nss2,(MCS15)_2TX	Pass	AV	2.4838G	53.30	54.00	-0.70	31.11	3	Horizontal	229	1.92	-

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)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3892G	43.65	54.00	-10.35	30.77	3	Vertical	176	1.87	-
2412MHz	Pass	AV	2.4128G	109.91	Inf	-Inf	30.86	3	Vertical	176	1.87	-
2412MHz	Pass	PK	2.3874G	56.54	74.00	-17.46	30.76	3	Vertical	176	1.87	-
2412MHz	Pass	PK	2.4128G	112.77	Inf	-Inf	30.86	3	Vertical	176	1.87	-
2412MHz	Pass	AV	2.389998G	45.97	54.00	-8.03	30.77	3	Horizontal	230	1.50	-
2412MHz	Pass	AV	2.41G	108.03	Inf	-Inf	30.85	3	Horizontal	230	1.50	-
2412MHz	Pass	PK	2.3898G	56.92	74.00	-17.08	30.77	3	Horizontal	230	1.50	-
2412MHz	Pass	PK	2.411G	110.27	Inf	-Inf	30.85	3	Horizontal	230	1.50	-
2412MHz	Pass	AV	4.824G	46.21	54.00	-7.79	2.13	3	Vertical	244	1.50	-
2412MHz	Pass	PK	4.82406G	50.64	74.00	-23.36	2.13	3	Vertical	244	1.50	-
2412MHz	Pass	AV	4.824G	46.77	54.00	-7.23	2.13	3	Horizontal	224	1.66	-
2412MHz	Pass	PK	4.82406G	50.60	74.00	-23.40	2.13	3	Horizontal	224	1.66	-
2437MHz	Pass	AV	2.3898G	43.17	54.00	-10.83	30.77	3	Vertical	168	2.25	-
2437MHz	Pass	AV	2.4362G	109.34	Inf	-Inf	30.94	3	Vertical	168	2.25	-
2437MHz	Pass	AV	2.485G	43.60	54.00	-10.40	31.12	3	Vertical	168	2.25	-
2437MHz	Pass	PK	2.385G	56.36	74.00	-17.64	30.76	3	Vertical	168	2.25	-
2437MHz	Pass	PK	2.4362G	111.85	Inf	-Inf	30.94	3	Vertical	168	2.25	-
2437MHz	Pass	PK	2.4882G	56.96	74.00	-17.04	31.13	3	Vertical	168	2.25	-
2437MHz	Pass	AV	2.3898G	43.32	54.00	-10.68	30.77	3	Horizontal	231	2.02	-
2437MHz	Pass	AV	2.4354G	110.01	Inf	-Inf	30.94	3	Horizontal	231	2.02	-
2437MHz	Pass	AV	2.4842G	43.72	54.00	-10.28	31.12	3	Horizontal	231	2.02	-
2437MHz	Pass	PK	2.355G	56.01	74.00	-17.99	30.65	3	Horizontal	231	2.02	-
2437MHz	Pass	PK	2.4362G	112.56	Inf	-Inf	30.94	3	Horizontal	231	2.02	-
2437MHz	Pass	PK	2.4846G	56.88	74.00	-17.12	31.12	3	Horizontal	231	2.02	-
2437MHz	Pass	AV	4.874G	47.32	54.00	-6.68	2.26	3	Vertical	155	1.76	-
2437MHz	Pass	PK	4.874G	50.98	74.00	-23.02	2.26	3	Vertical	155	1.76	-
2437MHz	Pass	AV	4.874G	45.07	54.00	-8.93	2.26	3	Horizontal	218	1.39	-
2437MHz	Pass	PK	4.87394G	49.85	74.00	-24.15	2.25	3	Horizontal	218	1.39	-
2462MHz	Pass	AV	2.4612G	109.74	Inf	-Inf	31.03	3	Vertical	169	1.60	-
2462MHz	Pass	AV	2.4878G	49.57	54.00	-4.43	31.13	3	Vertical	169	1.60	-
2462MHz	Pass	PK	2.461G	112.29	Inf	-Inf	31.03	3	Vertical	169	1.60	-
2462MHz	Pass	PK	2.488G	59.22	74.00	-14.78	31.13	3	Vertical	169	1.60	-
2462MHz	Pass	AV	2.4608G	109.13	Inf	-Inf	31.03	3	Horizontal	247	1.89	-
2462MHz	Pass	AV	2.4878G	50.08	54.00	-3.92	31.13	3	Horizontal	247	1.89	-
2462MHz	Pass	PK	2.461G	111.40	Inf	-Inf	31.03	3	Horizontal	247	1.89	-
2462MHz	Pass	PK	2.4868G	59.35	74.00	-14.65	31.12	3	Horizontal	247	1.89	-
2462MHz	Pass	AV	4.92394G	46.51	54.00	-7.49	2.38	3	Vertical	161	1.65	-
2462MHz	Pass	PK	4.92388G	50.66	74.00	-23.34	2.38	3	Vertical	161	1.65	-
2462MHz	Pass	AV	4.92394G	44.13	54.00	-9.87	2.38	3	Horizontal	223	1.39	-
2462MHz	Pass	PK	4.92412G	49.09	74.00	-24.91	2.38	3	Horizontal	223	1.39	-
802.11b_Nss1.(11Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	43.78	54.00	-10.22	30.77	3	Vertical	178	1.36	-
2412MHz	Pass	AV	2.4128G	103.86	Inf	-Inf	30.86	3	Vertical	178	1.36	-
2412MHz	Pass	PK	2.388G	57.16	74.00	-16.84	30.77	3	Vertical	178	1.36	-
2412MHz	Pass	PK	2.4132G	115.94	Inf	-Inf	30.86	3	Vertical	178	1.36	-
2412MHz	Pass	AV	2.389998G	45.28	54.00	-8.72	30.77	3	Horizontal	247	2.03	-
2412MHz	Pass	AV	2.4114G	103.80	Inf	-Inf	30.85	3	Horizontal	247	2.03	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	PK	2.3886G	57.07	74.00	-16.93	30.77	3	Horizontal	247	2.03	-
2412MHz	Pass	PK	2.4122G	115.49	Inf	-Inf	30.85	3	Horizontal	247	2.03	-
2412MHz	Pass	AV	4.82412G	36.99	54.00	-17.01	2.13	3	Vertical	176	1.21	-
2412MHz	Pass	PK	4.82394G	50.02	74.00	-23.98	2.13	3	Vertical	176	1.21	-
2412MHz	Pass	AV	4.82376G	37.65	54.00	-16.35	2.13	3	Horizontal	223	1.71	-
2412MHz	Pass	PK	4.82406G	50.26	74.00	-23.74	2.13	3	Horizontal	223	1.71	-
2437MHz	Pass	AV	2.3894G	42.69	54.00	-11.31	30.77	3	Vertical	166	2.23	-
2437MHz	Pass	AV	2.4362G	103.90	Inf	-Inf	30.94	3	Vertical	166	2.23	-
2437MHz	Pass	AV	2.483502G	43.44	54.00	-10.56	31.11	3	Vertical	166	2.23	-
2437MHz	Pass	PK	2.3898G	55.81	74.00	-18.19	30.77	3	Vertical	166	2.23	-
2437MHz	Pass	PK	2.4362G	115.22	Inf	-Inf	30.94	3	Vertical	166	2.23	-
2437MHz	Pass	PK	2.4878G	57.18	74.00	-16.82	31.13	3	Vertical	166	2.23	-
2437MHz	Pass	AV	2.3898G	42.56	54.00	-11.44	30.77	3	Horizontal	230	1.09	-
2437MHz	Pass	AV	2.4358G	102.96	Inf	-Inf	30.94	3	Horizontal	230	1.09	-
2437MHz	Pass	AV	2.4842G	43.46	54.00	-10.54	31.12	3	Horizontal	230	1.09	-
2437MHz	Pass	PK	2.3594G	55.60	74.00	-18.40	30.67	3	Horizontal	230	1.09	-
2437MHz	Pass	PK	2.4354G	115.87	Inf	-Inf	30.94	3	Horizontal	230	1.09	-
2437MHz	Pass	PK	2.4838G	57.33	74.00	-16.67	31.11	3	Horizontal	230	1.09	-
2437MHz	Pass	AV	4.87406G	37.36	54.00	-16.64	2.26	3	Vertical	159	1.83	-
2437MHz	Pass	PK	4.874G	50.27	74.00	-23.73	2.26	3	Vertical	159	1.83	-
2437MHz	Pass	AV	4.87388G	35.98	54.00	-18.02	2.25	3	Horizontal	223	1.47	-
2437MHz	Pass	PK	4.874G	48.85	74.00	-25.15	2.26	3	Horizontal	223	1.47	-
2462MHz	Pass	AV	2.389998G	42.60	54.00	-11.40	30.77	3	Vertical	164	1.50	-
2462MHz	Pass	AV	2.4608G	102.86	Inf	-Inf	31.03	3	Vertical	164	1.50	-
2462MHz	Pass	AV	2.483502G	47.61	54.00	-6.39	31.11	3	Vertical	164	1.50	-
2462MHz	Pass	PK	2.3868G	56.44	74.00	-17.56	30.76	3	Vertical	164	1.50	-
2462MHz	Pass	PK	2.4604G	114.40	Inf	-Inf	31.03	3	Vertical	164	1.50	-
2462MHz	Pass	PK	2.483502G	59.33	74.00	-14.67	31.11	3	Vertical	164	1.50	-
2462MHz	Pass	AV	2.389998G	42.56	54.00	-11.44	30.77	3	Horizontal	230	1.50	-
2462MHz	Pass	AV	2.4604G	103.51	Inf	-Inf	31.03	3	Horizontal	230	1.50	-
2462MHz	Pass	AV	2.483502G	48.72	54.00	-5.28	31.11	3	Horizontal	230	1.50	-
2462MHz	Pass	PK	2.3632G	55.68	74.00	-18.32	30.68	3	Horizontal	230	1.50	-
2462MHz	Pass	PK	2.4604G	115.07	Inf	-Inf	31.03	3	Horizontal	230	1.50	-
2462MHz	Pass	PK	2.484G	60.30	74.00	-13.70	31.12	3	Horizontal	230	1.50	-
2462MHz	Pass	AV	4.92388G	34.79	54.00	-19.21	2.38	3	Vertical	152	1.50	-
2462MHz	Pass	PK	4.924G	48.25	74.00	-25.75	2.38	3	Vertical	152	1.50	-
2462MHz	Pass	AV	4.924G	35.68	54.00	-18.32	2.38	3	Horizontal	64	1.40	-
2462MHz	Pass	PK	4.92382G	48.45	74.00	-25.55	2.38	3	Horizontal	64	1.40	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	52.98	54.00	-1.02	30.77	3	Vertical	178	2.01	-
2412MHz	Pass	AV	2.4146G	104.25	Inf	-Inf	30.86	3	Vertical	178	2.01	-
2412MHz	Pass	PK	2.389998G	66.12	74.00	-7.88	30.77	3	Vertical	178	2.01	-
2412MHz	Pass	PK	2.4146G	113.17	Inf	-Inf	30.86	3	Vertical	178	2.01	-
2412MHz	Pass	AV	2.3894G	49.74	54.00	-4.26	30.77	3	Horizontal	191	1.73	-
2412MHz	Pass	AV	2.413G	103.28	Inf	-Inf	30.86	3	Horizontal	191	1.73	-
2412MHz	Pass	PK	2.3886G	61.42	74.00	-12.58	30.77	3	Horizontal	191	1.73	-
2412MHz	Pass	PK	2.4128G	111.89	Inf	-Inf	30.86	3	Horizontal	191	1.73	-
2412MHz	Pass	AV	4.82754G	31.29	54.00	-22.71	2.14	3	Vertical	254	1.25	-
2412MHz	Pass	PK	4.83792G	43.48	74.00	-30.52	2.16	3	Vertical	254	1.25	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	AV	4.82394G	30.73	54.00	-23.27	2.13	3	Horizontal	238	1.50	-
2412MHz	Pass	PK	4.82226G	44.31	74.00	-29.69	2.13	3	Horizontal	238	1.50	-
2437MHz	Pass	AV	2.3898G	44.25	54.00	-9.75	30.77	3	Vertical	185	1.99	-
2437MHz	Pass	AV	2.4382G	104.99	Inf	-Inf	30.95	3	Vertical	185	1.99	-
2437MHz	Pass	AV	2.483502G	44.87	54.00	-9.13	31.11	3	Vertical	185	1.99	-
2437MHz	Pass	PK	2.3878G	56.76	74.00	-17.24	30.77	3	Vertical	185	1.99	-
2437MHz	Pass	PK	2.4378G	113.64	Inf	-Inf	30.95	3	Vertical	185	1.99	-
2437MHz	Pass	PK	2.4838G	57.26	74.00	-16.74	31.11	3	Vertical	185	1.99	-
2437MHz	Pass	AV	2.3886G	42.80	54.00	-11.20	30.77	3	Horizontal	360	2.69	-
2437MHz	Pass	AV	2.4378G	98.92	Inf	-Inf	30.95	3	Horizontal	360	2.69	-
2437MHz	Pass	AV	2.483502G	43.80	54.00	-10.20	31.11	3	Horizontal	360	2.69	-
2437MHz	Pass	PK	2.337G	56.42	74.00	-17.58	30.59	3	Horizontal	360	2.69	-
2437MHz	Pass	PK	2.4378G	107.71	Inf	-Inf	30.95	3	Horizontal	360	2.69	-
2437MHz	Pass	PK	2.4906G	55.93	74.00	-18.07	31.13	3	Horizontal	360	2.69	-
2437MHz	Pass	AV	4.874G	31.25	54.00	-22.75	2.26	3	Vertical	169	1.63	-
2437MHz	Pass	PK	4.86848G	43.79	74.00	-30.21	2.24	3	Vertical	169	1.63	-
2437MHz	Pass	AV	4.8779G	30.84	54.00	-23.16	2.26	3	Horizontal	360	1.50	-
2437MHz	Pass	PK	4.86824G	43.75	74.00	-30.25	2.24	3	Horizontal	360	1.50	-
2462MHz	Pass	AV	2.4628G	104.30	Inf	-Inf	31.04	3	Vertical	182	2.21	-
2462MHz	Pass	AV	2.483502G	53.19	54.00	-0.81	31.11	3	Vertical	182	2.21	-
2462MHz	Pass	PK	2.4586G	113.71	Inf	-Inf	31.02	3	Vertical	182	2.21	-
2462MHz	Pass	PK	2.4844G	65.65	74.00	-8.35	31.12	3	Vertical	182	2.21	-
2462MHz	Pass	AV	2.461G	103.09	Inf	-Inf	31.03	3	Horizontal	195	1.88	-
2462MHz	Pass	AV	2.483502G	52.78	54.00	-1.22	31.11	3	Horizontal	195	1.88	-
2462MHz	Pass	PK	2.4612G	112.02	Inf	-Inf	31.03	3	Horizontal	195	1.88	-
2462MHz	Pass	PK	2.483502G	63.44	74.00	-10.56	31.11	3	Horizontal	195	1.88	-
2462MHz	Pass	AV	4.92118G	31.45	54.00	-22.55	2.37	3	Vertical	169	1.64	-
2462MHz	Pass	PK	4.92856G	44.60	74.00	-29.40	2.39	3	Vertical	169	1.64	-
2462MHz	Pass	AV	4.91686G	32.36	54.00	-21.64	2.36	3	Horizontal	162	1.33	-
2462MHz	Pass	PK	4.91764G	44.71	74.00	-29.29	2.36	3	Horizontal	162	1.33	-
802.11g_Nss1(54Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389G	52.34	54.00	-1.66	30.77	3	Vertical	180	2.02	-
2412MHz	Pass	AV	2.4182G	103.48	Inf	-Inf	30.88	3	Vertical	180	2.02	-
2412MHz	Pass	PK	2.3874G	68.79	74.00	-5.21	30.76	3	Vertical	180	2.02	-
2412MHz	Pass	PK	2.418G	113.35	Inf	-Inf	30.87	3	Vertical	180	2.02	-
2412MHz	Pass	AV	2.389998G	52.71	54.00	-1.29	30.77	3	Horizontal	182	1.49	-
2412MHz	Pass	AV	2.4196G	100.74	Inf	-Inf	30.88	3	Horizontal	182	1.49	-
2412MHz	Pass	PK	2.3896G	69.06	74.00	-4.94	30.77	3	Horizontal	182	1.49	-
2412MHz	Pass	PK	2.4148G	110.66	Inf	-Inf	30.86	3	Horizontal	182	1.49	-
2437MHz	Pass	AV	2.3894G	44.74	54.00	-9.26	30.77	3	Vertical	184	2.00	-
2437MHz	Pass	AV	2.4434G	103.58	Inf	-Inf	30.97	3	Vertical	184	2.00	-
2437MHz	Pass	AV	2.4842G	45.19	54.00	-8.81	31.12	3	Vertical	184	2.00	-
2437MHz	Pass	PK	2.3874G	57.65	74.00	-16.35	30.76	3	Vertical	184	2.00	-
2437MHz	Pass	PK	2.443G	113.37	Inf	-Inf	30.96	3	Vertical	184	2.00	-
2437MHz	Pass	PK	2.485G	58.04	74.00	-15.96	31.12	3	Vertical	184	2.00	-
2437MHz	Pass	AV	2.3866G	43.70	54.00	-10.30	30.76	3	Horizontal	205	1.10	-
2437MHz	Pass	AV	2.4378G	99.01	Inf	-Inf	30.95	3	Horizontal	205	1.10	-
2437MHz	Pass	AV	2.4838G	44.78	54.00	-9.22	31.11	3	Horizontal	205	1.10	-
2437MHz	Pass	PK	2.3874G	56.93	74.00	-17.07	30.76	3	Horizontal	205	1.10	-

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	2.443G	108.79	Inf	-Inf	30.96	3	Horizontal	205	1.10	-
2437MHz	Pass	PK	2.483502G	56.65	74.00	-17.35	31.11	3	Horizontal	205	1.10	-
2457MHz	Pass	AV	2.4522G	104.27	Inf	-Inf	31.00	3	Vertical	175	1.74	-
2457MHz	Pass	AV	2.483502G	53.17	54.00	-0.83	31.11	3	Vertical	175	1.74	-
2457MHz	Pass	PK	2.4516G	113.86	Inf	-Inf	31.00	3	Vertical	175	1.74	-
2457MHz	Pass	PK	2.483502G	67.93	74.00	-6.07	31.11	3	Vertical	175	1.74	-
2457MHz	Pass	AV	2.4512G	101.24	Inf	-Inf	30.99	3	Horizontal	195	1.85	-
2457MHz	Pass	AV	2.483502G	51.29	54.00	-2.71	31.11	3	Horizontal	195	1.85	-
2457MHz	Pass	PK	2.4516G	111.19	Inf	-Inf	31.00	3	Horizontal	195	1.85	-
2457MHz	Pass	PK	2.4842G	65.52	74.00	-8.48	31.12	3	Horizontal	195	1.85	-
2462MHz	Pass	AV	2.458G	102.55	Inf	-Inf	31.02	3	Vertical	180	2.22	-
2462MHz	Pass	AV	2.483502G	52.92	54.00	-1.08	31.11	3	Vertical	180	2.22	-
2462MHz	Pass	PK	2.458G	111.80	Inf	-Inf	31.02	3	Vertical	180	2.22	-
2462MHz	Pass	PK	2.4836G	66.65	74.00	-7.35	31.11	3	Vertical	180	2.22	-
2462MHz	Pass	AV	2.4562G	101.14	Inf	-Inf	31.01	3	Horizontal	193	1.85	-
2462MHz	Pass	AV	2.483502G	51.82	54.00	-2.18	31.11	3	Horizontal	193	1.85	-
2462MHz	Pass	PK	2.4566G	111.19	Inf	-Inf	31.01	3	Horizontal	193	1.85	-
2462MHz	Pass	PK	2.483502G	64.65	74.00	-9.35	31.11	3	Horizontal	193	1.85	-
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	4.82118G	30.73	54.00	-23.27	2.12	3	Vertical	151	1.58	-
2412MHz	Pass	PK	4.82028G	45.45	74.00	-28.55	2.12	3	Vertical	151	1.58	-
2412MHz	Pass	AV	4.82868G	28.62	54.00	-25.38	2.14	3	Horizontal	93	1.50	-
2412MHz	Pass	PK	4.83492G	42.61	74.00	-31.39	2.16	3	Horizontal	93	1.50	-
2437MHz	Pass	AV	4.8707G	33.61	54.00	-20.39	2.25	3	Vertical	151	1.67	-
2437MHz	Pass	PK	4.8716G	47.72	74.00	-26.28	2.25	3	Vertical	151	1.67	-
2437MHz	Pass	AV	4.87286G	32.43	54.00	-21.57	2.25	3	Horizontal	141	1.54	-
2437MHz	Pass	PK	4.87088G	45.97	74.00	-28.03	2.25	3	Horizontal	141	1.54	-
2462MHz	Pass	AV	4.91734G	31.86	54.00	-22.14	2.36	3	Vertical	149	1.45	-
2462MHz	Pass	PK	4.91614G	44.93	74.00	-29.07	2.36	3	Vertical	149	1.45	-
2462MHz	Pass	AV	4.9168G	31.08	54.00	-22.92	2.36	3	Horizontal	140	1.44	-
2462MHz	Pass	PK	4.91884G	44.28	74.00	-29.72	2.37	3	Horizontal	140	1.44	-
802.11n HT20_Nss2,(MCS8)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	52.12	54.00	-1.88	30.77	3	Vertical	175	2.04	-
2412MHz	Pass	AV	2.413G	101.79	Inf	-Inf	30.86	3	Vertical	175	2.04	-
2412MHz	Pass	PK	2.3894G	64.76	74.00	-9.24	30.77	3	Vertical	175	2.04	-
2412MHz	Pass	PK	2.4136G	111.72	Inf	-Inf	30.86	3	Vertical	175	2.04	-
2412MHz	Pass	AV	2.389998G	50.63	54.00	-3.37	30.77	3	Horizontal	145	1.99	-
2412MHz	Pass	AV	2.4136G	101.52	Inf	-Inf	30.86	3	Horizontal	145	1.99	-
2412MHz	Pass	PK	2.3898G	62.67	74.00	-11.33	30.77	3	Horizontal	145	1.99	-
2412MHz	Pass	PK	2.4106G	111.80	Inf	-Inf	30.85	3	Horizontal	145	1.99	-
2437MHz	Pass	AV	2.3898G	44.74	54.00	-9.26	30.77	3	Vertical	167	1.52	-
2437MHz	Pass	AV	2.4382G	102.07	Inf	-Inf	30.95	3	Vertical	167	1.52	-
2437MHz	Pass	AV	2.483502G	45.58	54.00	-8.42	31.11	3	Vertical	167	1.52	-
2437MHz	Pass	PK	2.387G	56.43	74.00	-17.57	30.76	3	Vertical	167	1.52	-
2437MHz	Pass	PK	2.4358G	111.95	Inf	-Inf	30.94	3	Vertical	167	1.52	-
2437MHz	Pass	PK	2.4846G	57.51	74.00	-16.49	31.12	3	Vertical	167	1.52	-
2437MHz	Pass	AV	2.3898G	44.76	54.00	-9.24	30.77	3	Horizontal	232	2.02	-
2437MHz	Pass	AV	2.4358G	102.84	Inf	-Inf	30.94	3	Horizontal	232	2.02	-
2437MHz	Pass	AV	2.4838G	45.74	54.00	-8.26	31.11	3	Horizontal	232	2.02	-

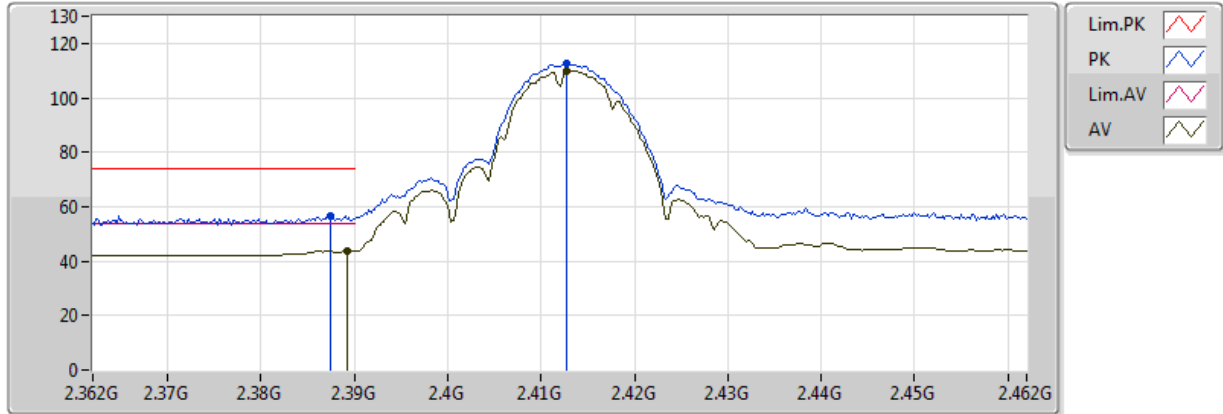
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.3894G	56.95	74.00	-17.05	30.77	3	Horizontal	232	2.02	-
2437MHz	Pass	PK	2.4358G	113.94	Inf	-Inf	30.94	3	Horizontal	232	2.02	-
2437MHz	Pass	PK	2.483502G	57.37	74.00	-16.63	31.11	3	Horizontal	232	2.02	-
2457MHz	Pass	AV	2.456G	102.70	Inf	-Inf	31.01	3	Vertical	175	1.56	-
2457MHz	Pass	AV	2.483502G	52.06	54.00	-1.94	31.11	3	Vertical	175	1.56	-
2457MHz	Pass	PK	2.4524G	112.71	Inf	-Inf	31.00	3	Vertical	175	1.56	-
2457MHz	Pass	PK	2.483502G	65.96	74.00	-8.04	31.11	3	Vertical	175	1.56	-
2457MHz	Pass	AV	2.4562G	98.43	Inf	-Inf	31.01	3	Horizontal	141	1.95	-
2457MHz	Pass	AV	2.483502G	49.27	54.00	-4.73	31.11	3	Horizontal	141	1.95	-
2457MHz	Pass	PK	2.4558G	109.88	Inf	-Inf	31.01	3	Horizontal	141	1.95	-
2457MHz	Pass	PK	2.4844G	62.36	74.00	-11.64	31.12	3	Horizontal	141	1.95	-
2462MHz	Pass	AV	2.4606G	100.30	Inf	-Inf	31.03	3	Vertical	179	2.20	-
2462MHz	Pass	AV	2.483502G	51.82	54.00	-2.18	31.11	3	Vertical	179	2.20	-
2462MHz	Pass	PK	2.4574G	110.96	Inf	-Inf	31.02	3	Vertical	179	2.20	-
2462MHz	Pass	PK	2.4844G	64.66	74.00	-9.34	31.12	3	Vertical	179	2.20	-
2462MHz	Pass	AV	2.455G	99.78	Inf	-Inf	31.01	3	Horizontal	144	1.73	-
2462MHz	Pass	AV	2.483502G	53.15	54.00	-0.85	31.11	3	Horizontal	144	1.73	-
2462MHz	Pass	PK	2.4596G	111.07	Inf	-Inf	31.02	3	Horizontal	144	1.73	-
2462MHz	Pass	PK	2.483502G	65.55	74.00	-8.45	31.11	3	Horizontal	144	1.73	-
802.11n HT20_Nss2,(MCS15)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.389998G	53.07	54.00	-0.93	30.77	3	Vertical	171	2.31	-
2412MHz	Pass	AV	2.4128G	99.48	Inf	-Inf	30.86	3	Vertical	171	2.31	-
2412MHz	Pass	PK	2.389998G	70.70	74.00	-3.30	30.77	3	Vertical	171	2.31	-
2412MHz	Pass	PK	2.4138G	110.83	Inf	-Inf	30.86	3	Vertical	171	2.31	-
2412MHz	Pass	AV	2.389998G	50.48	54.00	-3.52	30.77	3	Horizontal	145	2.01	-
2412MHz	Pass	AV	2.4178G	100.02	Inf	-Inf	30.87	3	Horizontal	145	2.01	-
2412MHz	Pass	PK	2.389G	63.41	74.00	-10.59	30.77	3	Horizontal	145	2.01	-
2412MHz	Pass	PK	2.4156G	110.76	Inf	-Inf	30.87	3	Horizontal	145	2.01	-
2417MHz	Pass	AV	2.389998G	52.49	54.00	-1.51	30.77	3	Vertical	181	1.79	-
2417MHz	Pass	AV	2.4192G	102.85	Inf	-Inf	30.88	3	Vertical	181	1.79	-
2417MHz	Pass	PK	2.3894G	66.91	74.00	-7.09	30.77	3	Vertical	181	1.79	-
2417MHz	Pass	PK	2.4182G	113.31	Inf	-Inf	30.88	3	Vertical	181	1.79	-
2417MHz	Pass	AV	2.389998G	51.84	54.00	-2.16	30.77	3	Horizontal	192	1.52	-
2417MHz	Pass	AV	2.4188G	101.65	Inf	-Inf	30.88	3	Horizontal	192	1.52	-
2417MHz	Pass	PK	2.3896G	66.07	74.00	-7.93	30.77	3	Horizontal	192	1.52	-
2417MHz	Pass	PK	2.4208G	112.88	Inf	-Inf	30.88	3	Horizontal	192	1.52	-
2437MHz	Pass	AV	2.3894G	46.73	54.00	-7.27	30.77	3	Vertical	163	1.58	-
2437MHz	Pass	AV	2.429G	101.51	Inf	-Inf	30.91	3	Vertical	163	1.58	-
2437MHz	Pass	AV	2.483502G	48.57	54.00	-5.43	31.11	3	Vertical	163	1.58	-
2437MHz	Pass	PK	2.3882G	60.25	74.00	-13.75	30.77	3	Vertical	163	1.58	-
2437MHz	Pass	PK	2.4386G	112.38	Inf	-Inf	30.95	3	Vertical	163	1.58	-
2437MHz	Pass	PK	2.4854G	63.15	74.00	-10.85	31.12	3	Vertical	163	1.58	-
2437MHz	Pass	AV	2.3898G	46.69	54.00	-7.31	30.77	3	Horizontal	186	1.32	-
2437MHz	Pass	AV	2.429G	101.20	Inf	-Inf	30.91	3	Horizontal	186	1.32	-
2437MHz	Pass	AV	2.483502G	47.08	54.00	-6.92	31.11	3	Horizontal	186	1.32	-
2437MHz	Pass	PK	2.3898G	59.32	74.00	-14.68	30.77	3	Horizontal	186	1.32	-
2437MHz	Pass	PK	2.429G	111.39	Inf	-Inf	30.91	3	Horizontal	186	1.32	-
2437MHz	Pass	PK	2.4838G	60.74	74.00	-13.26	31.11	3	Horizontal	186	1.32	-
2452MHz	Pass	AV	2.4506G	101.73	Inf	-Inf	30.99	3	Vertical	171	1.51	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2452MHz	Pass	AV	2.483502G	53.19	54.00	-0.81	31.11	3	Vertical	171	1.51	-
2452MHz	Pass	PK	2.4532G	112.15	Inf	-Inf	31.00	3	Vertical	171	1.51	-
2452MHz	Pass	PK	2.483502G	68.32	74.00	-5.68	31.11	3	Vertical	171	1.51	-
2452MHz	Pass	AV	2.444G	100.97	Inf	-Inf	30.97	3	Horizontal	229	1.92	-
2452MHz	Pass	AV	2.4838G	53.30	54.00	-0.70	31.11	3	Horizontal	229	1.92	-
2452MHz	Pass	PK	2.4536G	111.56	Inf	-Inf	31.00	3	Horizontal	229	1.92	-
2452MHz	Pass	PK	2.4856G	66.84	74.00	-7.16	31.12	3	Horizontal	229	1.92	-
2457MHz	Pass	AV	2.4506G	101.85	Inf	-Inf	30.99	3	Vertical	178	1.76	-
2457MHz	Pass	AV	2.483502G	52.77	54.00	-1.23	31.11	3	Vertical	178	1.76	-
2457MHz	Pass	PK	2.4502G	112.01	Inf	-Inf	30.99	3	Vertical	178	1.76	-
2457MHz	Pass	PK	2.483502G	66.74	74.00	-7.26	31.11	3	Vertical	178	1.76	-
2457MHz	Pass	AV	2.449G	101.57	Inf	-Inf	30.99	3	Horizontal	192	1.26	-
2457MHz	Pass	AV	2.483502G	53.20	54.00	-0.80	31.11	3	Horizontal	192	1.26	-
2457MHz	Pass	PK	2.4502G	111.94	Inf	-Inf	30.99	3	Horizontal	192	1.26	-
2457MHz	Pass	PK	2.483502G	67.62	74.00	-6.38	31.11	3	Horizontal	192	1.26	-
2462MHz	Pass	AV	2.4546G	100.11	Inf	-Inf	31.01	3	Vertical	176	1.55	-
2462MHz	Pass	AV	2.483502G	52.87	54.00	-1.13	31.11	3	Vertical	176	1.55	-
2462MHz	Pass	PK	2.4552G	110.01	Inf	-Inf	31.01	3	Vertical	176	1.55	-
2462MHz	Pass	PK	2.483502G	67.37	74.00	-6.63	31.11	3	Vertical	176	1.55	-
2462MHz	Pass	AV	2.454G	99.72	Inf	-Inf	31.00	3	Horizontal	190	1.26	-
2462MHz	Pass	AV	2.483502G	52.44	54.00	-1.56	31.11	3	Horizontal	190	1.26	-
2462MHz	Pass	PK	2.4546G	110.24	Inf	-Inf	31.01	3	Horizontal	190	1.26	-
2462MHz	Pass	PK	2.4836G	67.17	74.00	-6.83	31.11	3	Horizontal	190	1.26	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

22/06/2018

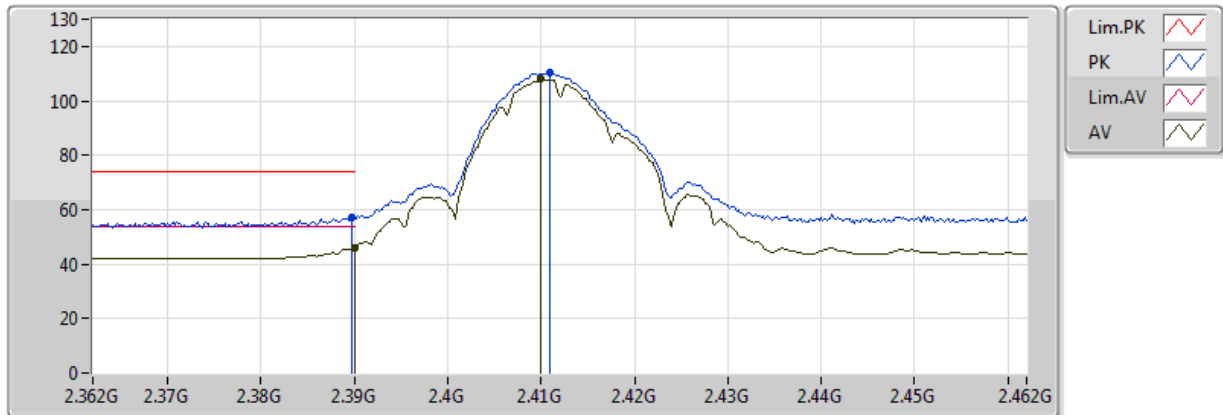


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3892G	43.65	54.00	-10.35	30.77	3	Vertical	176	1.87	-
AV	2.4128G	109.91	Inf	-Inf	30.86	3	Vertical	176	1.87	-
PK	2.3874G	56.54	74.00	-17.46	30.76	3	Vertical	176	1.87	-
PK	2.4128G	112.77	Inf	-Inf	30.86	3	Vertical	176	1.87	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

22/06/2018

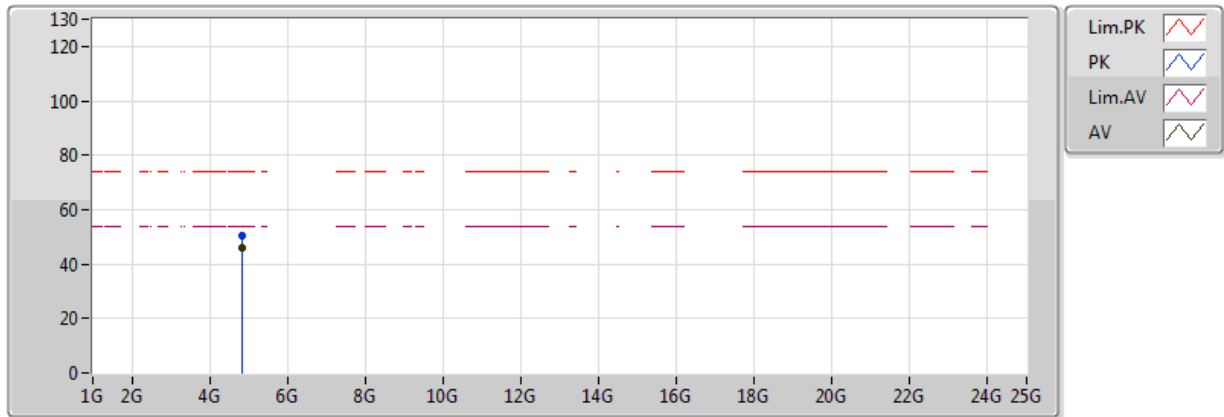


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	45.97	54.00	-8.03	30.77	3	Horizontal	230	1.50	-
AV	2.41G	108.03	Inf	-Inf	30.85	3	Horizontal	230	1.50	-
PK	2.3898G	56.92	74.00	-17.08	30.77	3	Horizontal	230	1.50	-
PK	2.411G	110.27	Inf	-Inf	30.85	3	Horizontal	230	1.50	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

22/06/2018

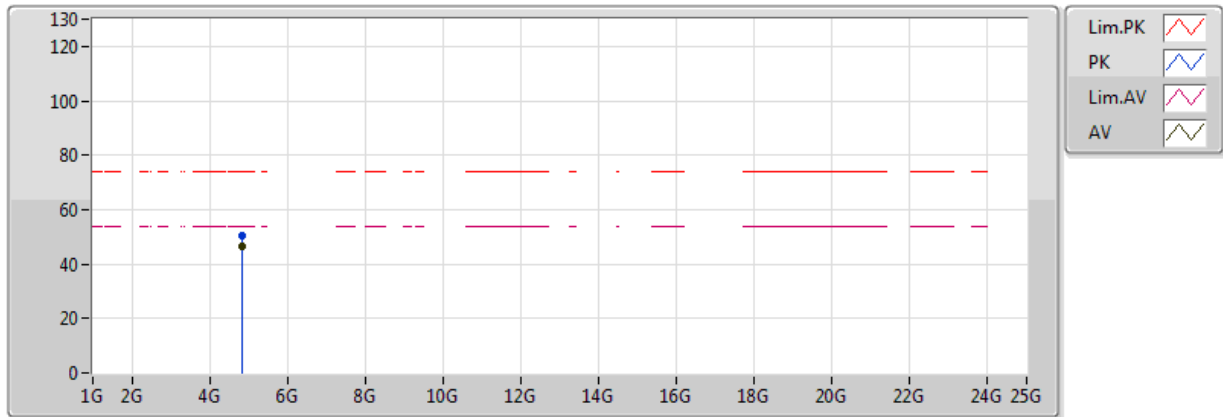


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.824G	46.21	54.00	-7.79	2.13	3	Vertical	244	1.50	-
PK	4.82406G	50.64	74.00	-23.36	2.13	3	Vertical	244	1.50	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

22/06/2018

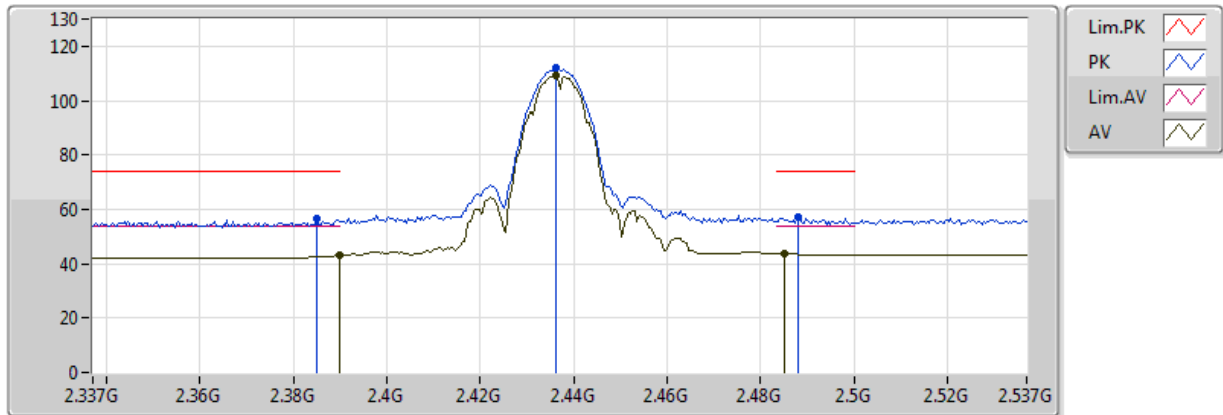


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.824G	46.77	54.00	-7.23	2.13	3	Horizontal	224	1.66	-
PK	4.82406G	50.60	74.00	-23.40	2.13	3	Horizontal	224	1.66	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

22/06/2018

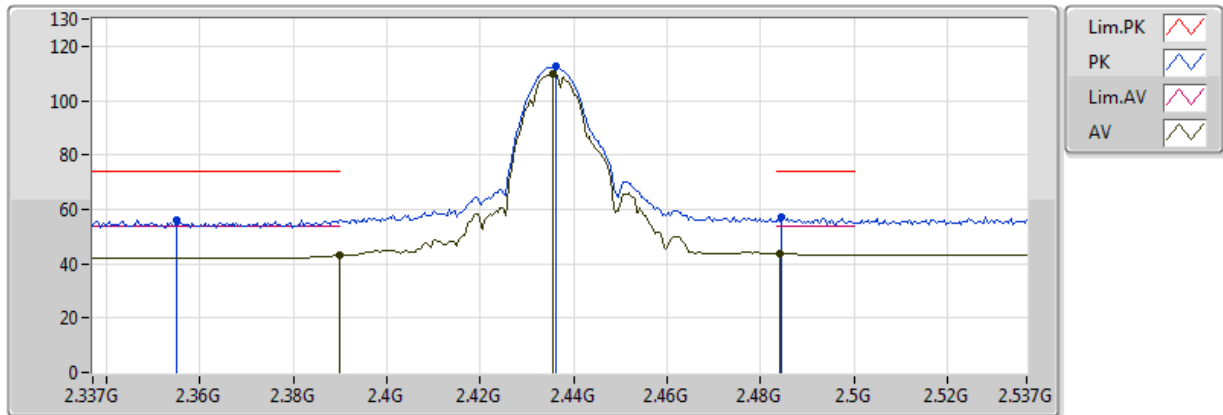


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.17	54.00	-10.83	30.77	3	Vertical	168	2.25	-
AV	2.4362G	109.34	Inf	-Inf	30.94	3	Vertical	168	2.25	-
AV	2.485G	43.60	54.00	-10.40	31.12	3	Vertical	168	2.25	-
PK	2.385G	56.36	74.00	-17.64	30.76	3	Vertical	168	2.25	-
PK	2.4362G	111.85	Inf	-Inf	30.94	3	Vertical	168	2.25	-
PK	2.4882G	56.96	74.00	-17.04	31.13	3	Vertical	168	2.25	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

22/06/2018

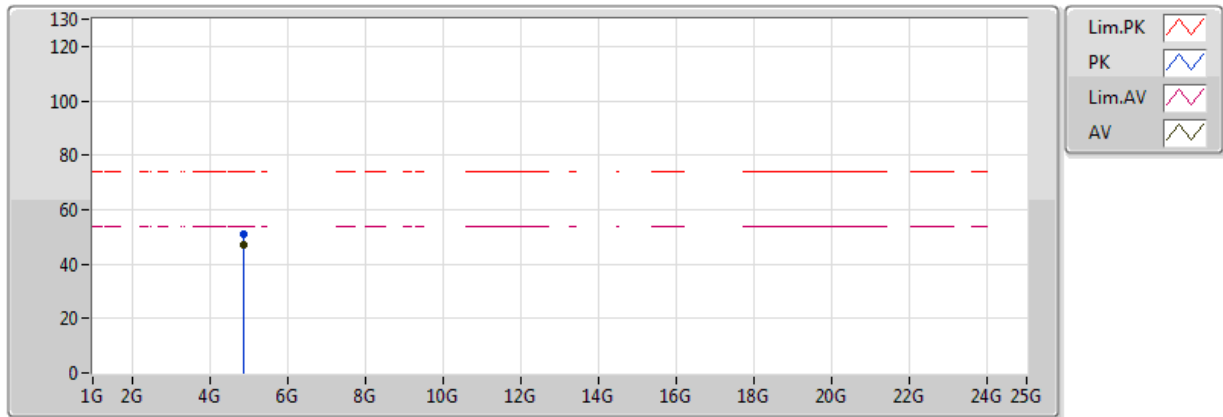


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	43.32	54.00	-10.68	30.77	3	Horizontal	231	2.02	-
AV	2.4354G	110.01	Inf	-Inf	30.94	3	Horizontal	231	2.02	-
AV	2.4842G	43.72	54.00	-10.28	31.12	3	Horizontal	231	2.02	-
PK	2.355G	56.01	74.00	-17.99	30.65	3	Horizontal	231	2.02	-
PK	2.4362G	112.56	Inf	-Inf	30.94	3	Horizontal	231	2.02	-
PK	2.4846G	56.88	74.00	-17.12	31.12	3	Horizontal	231	2.02	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

22/06/2018

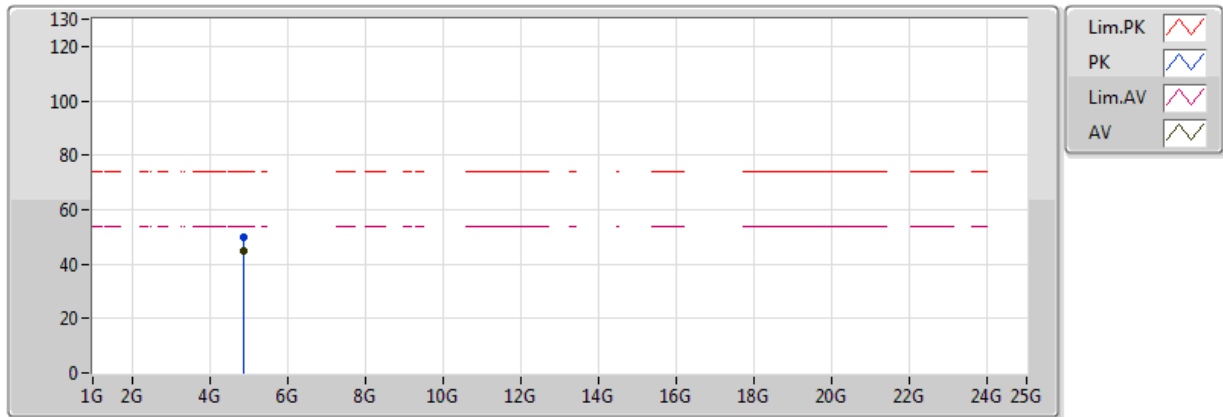


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	47.32	54.00	-6.68	2.26	3	Vertical	155	1.76	-
PK	4.874G	50.98	74.00	-23.02	2.26	3	Vertical	155	1.76	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

22/06/2018

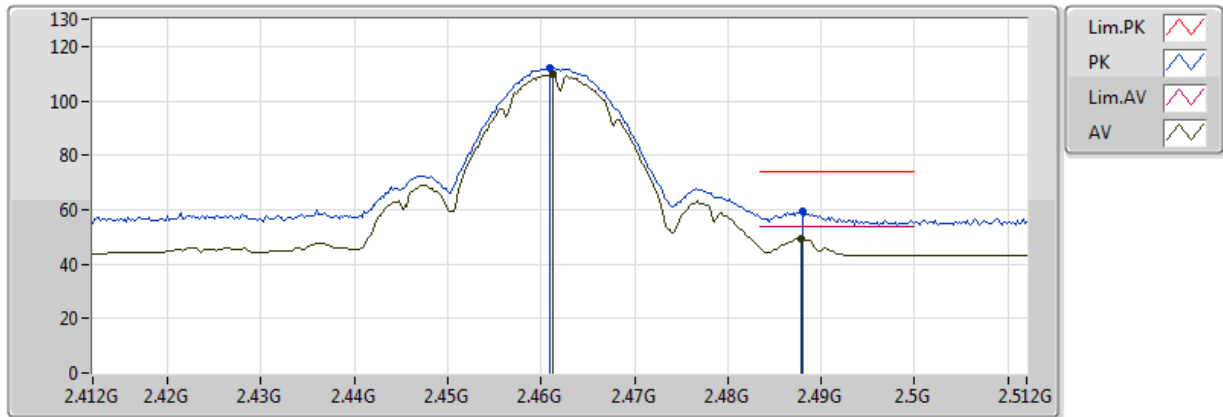


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	45.07	54.00	-8.93	2.26	3	Horizontal	218	1.39	-
PK	4.87394G	49.85	74.00	-24.15	2.25	3	Horizontal	218	1.39	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

22/06/2018

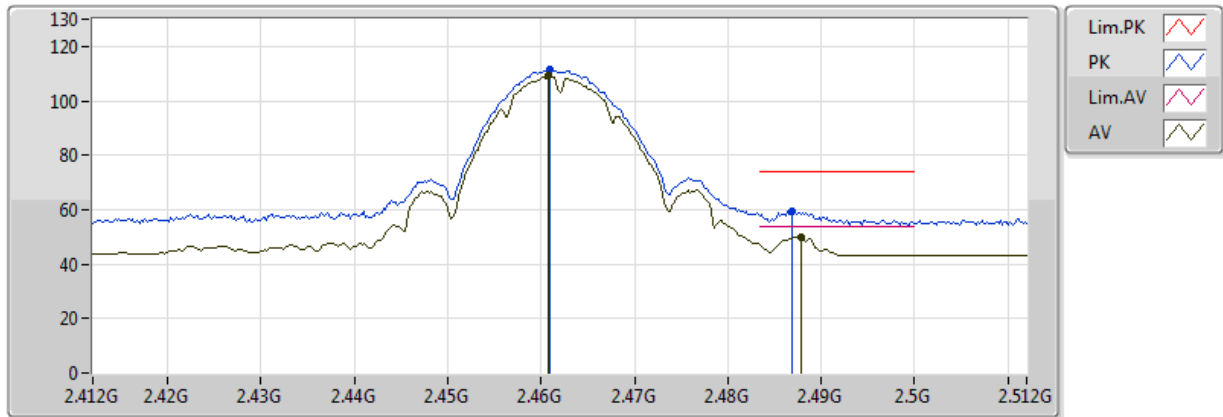


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4612G	109.74	Inf	-Inf	31.03	3	Vertical	169	1.60	-
AV	2.4878G	49.57	54.00	-4.43	31.13	3	Vertical	169	1.60	-
PK	2.461G	112.29	Inf	-Inf	31.03	3	Vertical	169	1.60	-
PK	2.488G	59.22	74.00	-14.78	31.13	3	Vertical	169	1.60	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

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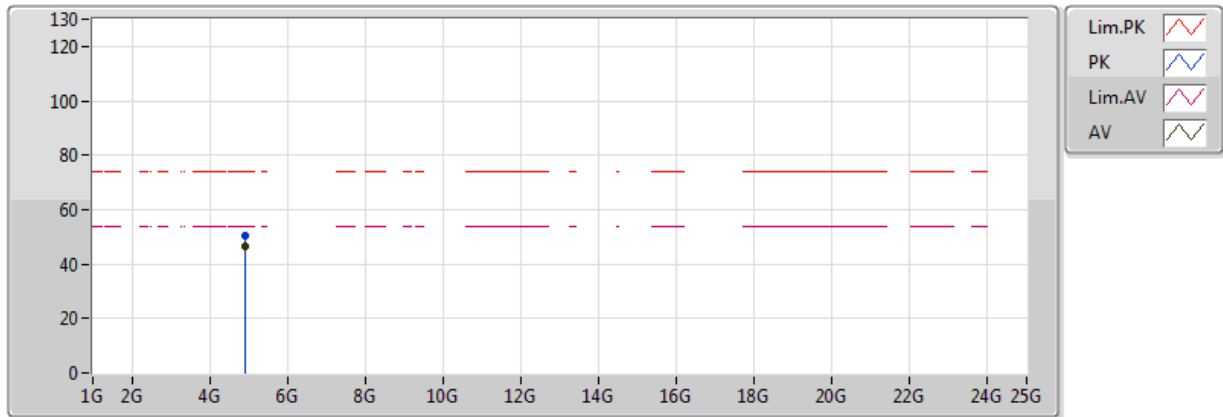


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4608G	109.13	Inf	-Inf	31.03	3	Horizontal	247	1.89	-
AV	2.4878G	50.08	54.00	-3.92	31.13	3	Horizontal	247	1.89	-
PK	2.461G	111.40	Inf	-Inf	31.03	3	Horizontal	247	1.89	-
PK	2.4868G	59.35	74.00	-14.65	31.12	3	Horizontal	247	1.89	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

22/06/2018

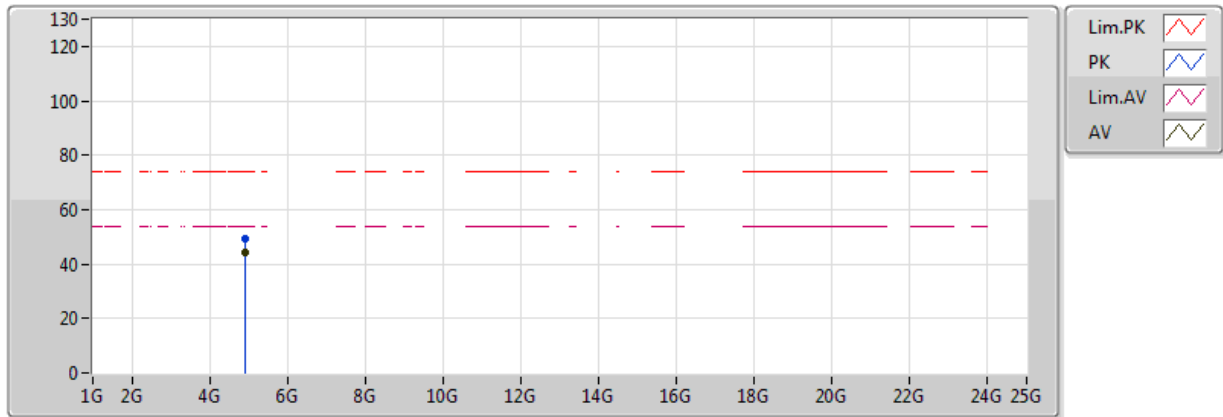


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92394G	46.51	54.00	-7.49	2.38	3	Vertical	161	1.65	-
PK	4.92388G	50.66	74.00	-23.34	2.38	3	Vertical	161	1.65	-

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

22/06/2018

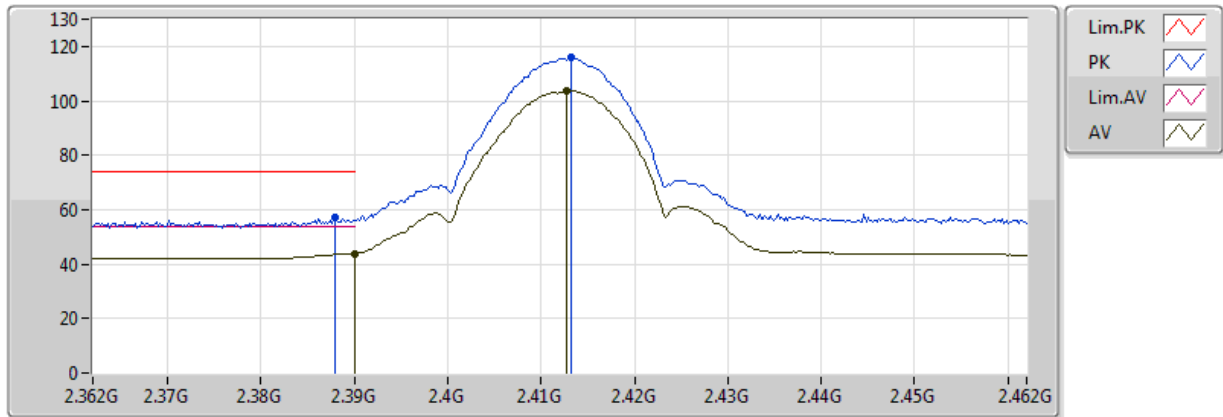


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92394G	44.13	54.00	-9.87	2.38	3	Horizontal	223	1.39	-
PK	4.92412G	49.09	74.00	-24.91	2.38	3	Horizontal	223	1.39	-

802.11b_Nss1,(11Mbps)_2TX

2412MHz_TX

22/06/2018

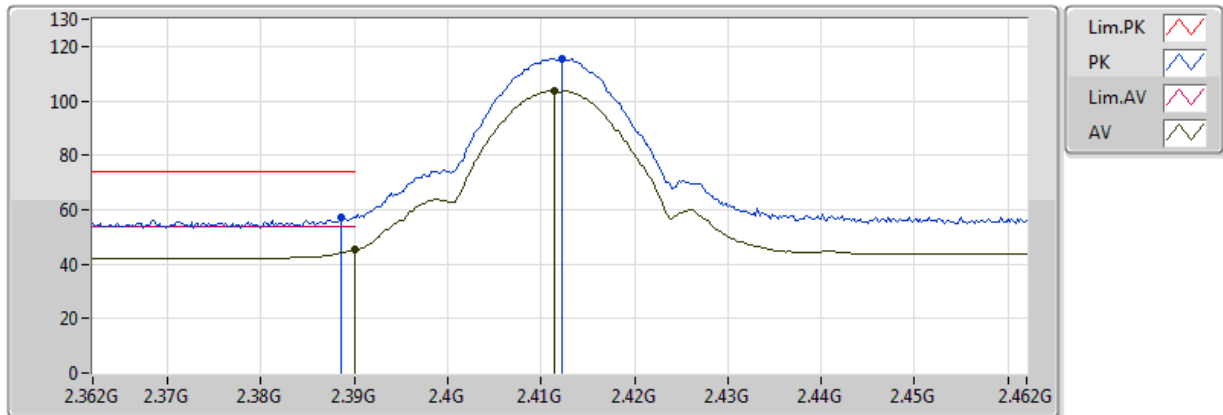


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	43.78	54.00	-10.22	30.77	3	Vertical	178	1.36	-
AV	2.4128G	103.86	Inf	-Inf	30.86	3	Vertical	178	1.36	-
PK	2.388G	57.16	74.00	-16.84	30.77	3	Vertical	178	1.36	-
PK	2.4132G	115.94	Inf	-Inf	30.86	3	Vertical	178	1.36	-

802.11b_Nss1,(11Mbps)_2TX

2412MHz_TX

22/06/2018

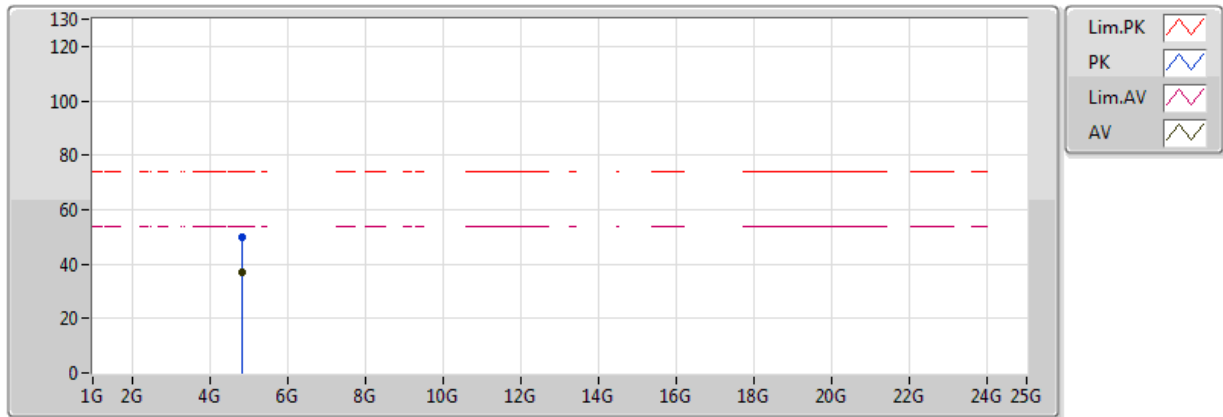


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	45.28	54.00	-8.72	30.77	3	Horizontal	247	2.03	-
AV	2.4114G	103.80	Inf	-Inf	30.85	3	Horizontal	247	2.03	-
PK	2.3886G	57.07	74.00	-16.93	30.77	3	Horizontal	247	2.03	-
PK	2.4122G	115.49	Inf	-Inf	30.85	3	Horizontal	247	2.03	-

802.11b_Nss1,(11Mbps)_2TX

2412MHz_TX

22/06/2018

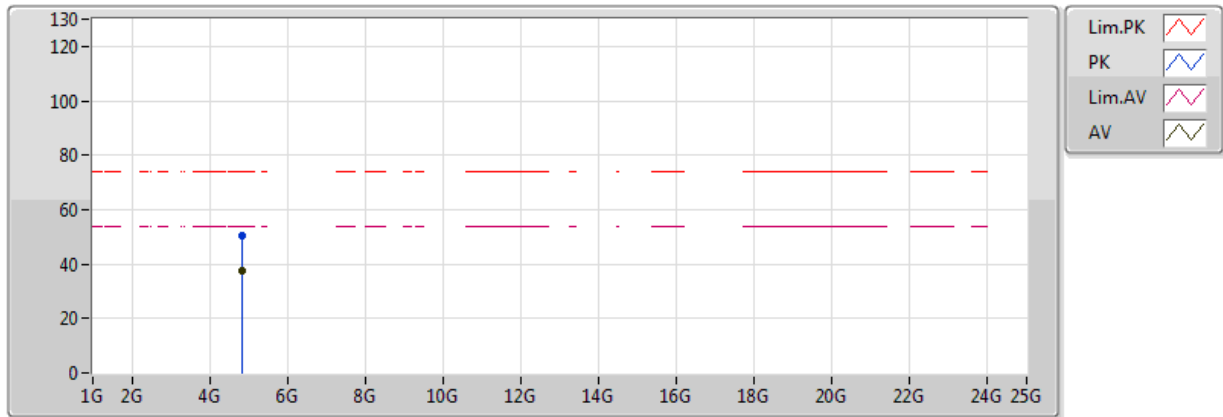


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82412G	36.99	54.00	-17.01	2.13	3	Vertical	176	1.21	-
PK	4.82394G	50.02	74.00	-23.98	2.13	3	Vertical	176	1.21	-

802.11b_Nss1,(11Mbps)_2TX

2412MHz_TX

22/06/2018

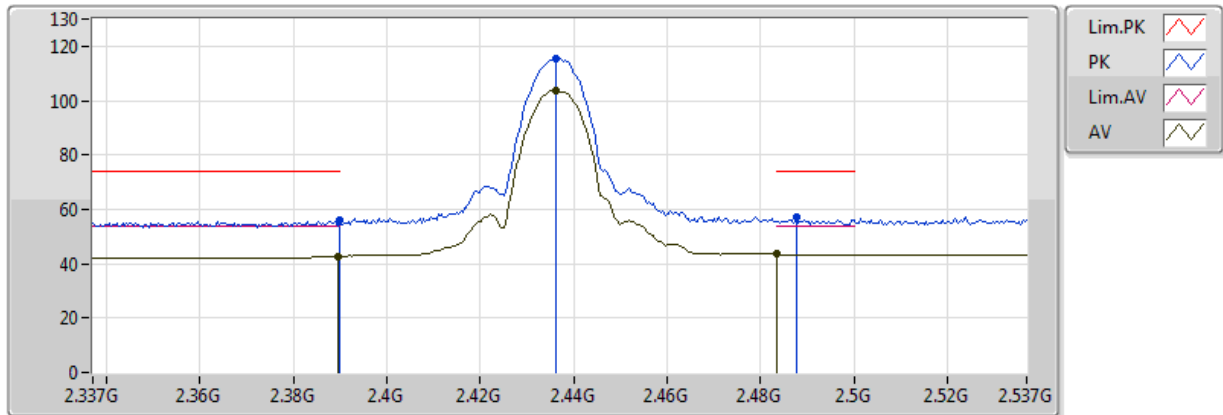


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82376G	37.65	54.00	-16.35	2.13	3	Horizontal	223	1.71	-
PK	4.82406G	50.26	74.00	-23.74	2.13	3	Horizontal	223	1.71	-

802.11b_Nss1,(11Mbps)_2TX

2437MHz_TX

22/06/2018

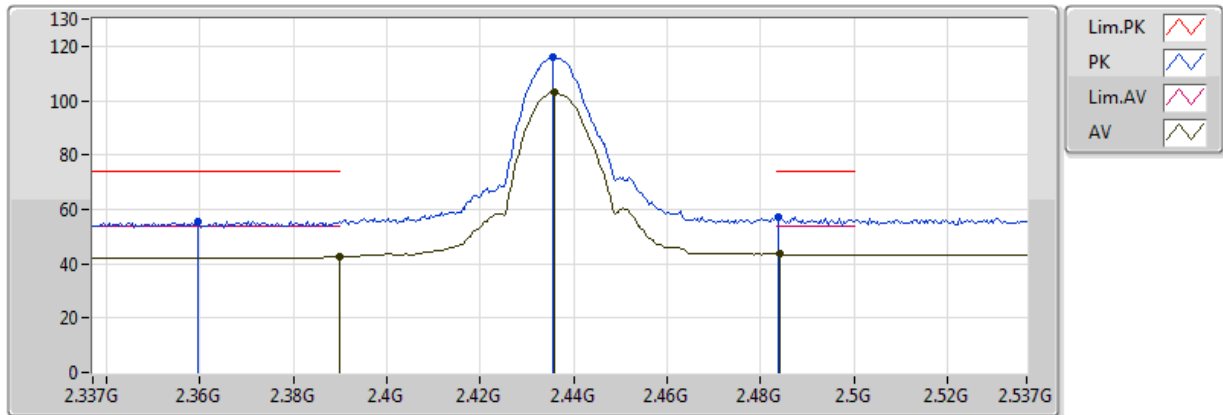


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	42.69	54.00	-11.31	30.77	3	Vertical	166	2.23	-
AV	2.4362G	103.90	Inf	-Inf	30.94	3	Vertical	166	2.23	-
AV	2.483502G	43.44	54.00	-10.56	31.11	3	Vertical	166	2.23	-
PK	2.3898G	55.81	74.00	-18.19	30.77	3	Vertical	166	2.23	-
PK	2.4362G	115.22	Inf	-Inf	30.94	3	Vertical	166	2.23	-
PK	2.4878G	57.18	74.00	-16.82	31.13	3	Vertical	166	2.23	-

802.11b_Nss1,(11Mbps)_2TX

2437MHz_TX

22/06/2018

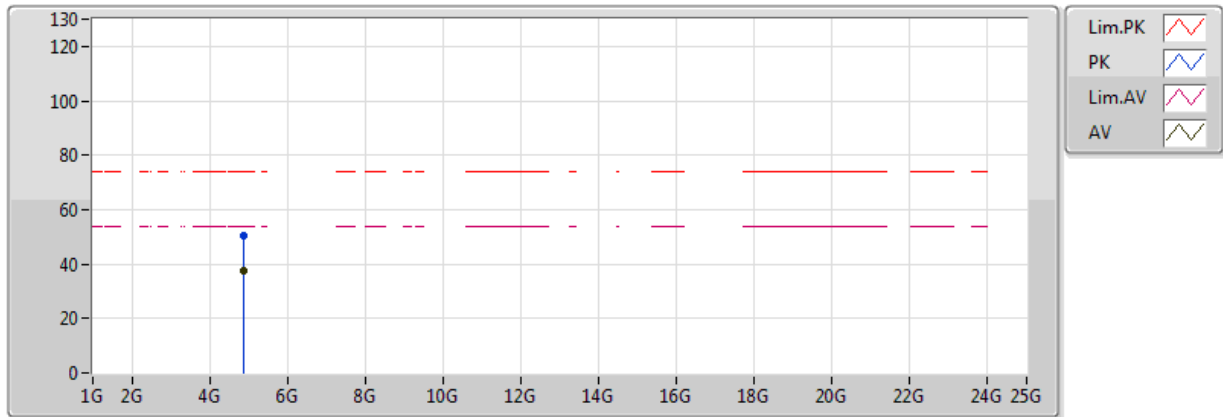


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	42.56	54.00	-11.44	30.77	3	Horizontal	230	1.09	-
AV	2.4358G	102.96	Inf	-Inf	30.94	3	Horizontal	230	1.09	-
AV	2.4842G	43.46	54.00	-10.54	31.12	3	Horizontal	230	1.09	-
PK	2.3594G	55.60	74.00	-18.40	30.67	3	Horizontal	230	1.09	-
PK	2.4354G	115.87	Inf	-Inf	30.94	3	Horizontal	230	1.09	-
PK	2.4838G	57.33	74.00	-16.67	31.11	3	Horizontal	230	1.09	-

802.11b_Nss1,(11Mbps)_2TX

2437MHz_TX

22/06/2018

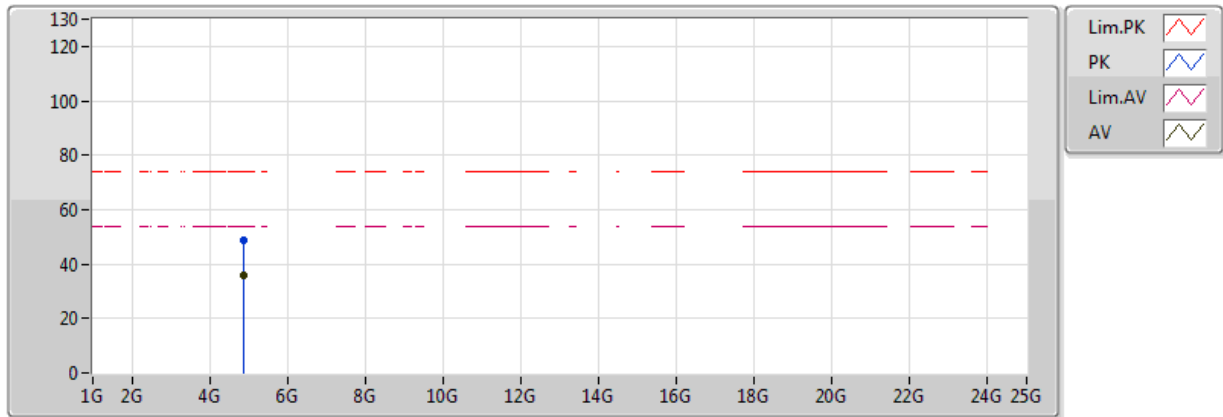


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87406G	37.36	54.00	-16.64	2.26	3	Vertical	159	1.83	-
PK	4.874G	50.27	74.00	-23.73	2.26	3	Vertical	159	1.83	-

802.11b_Nss1,(11Mbps)_2TX

2437MHz_TX

22/06/2018

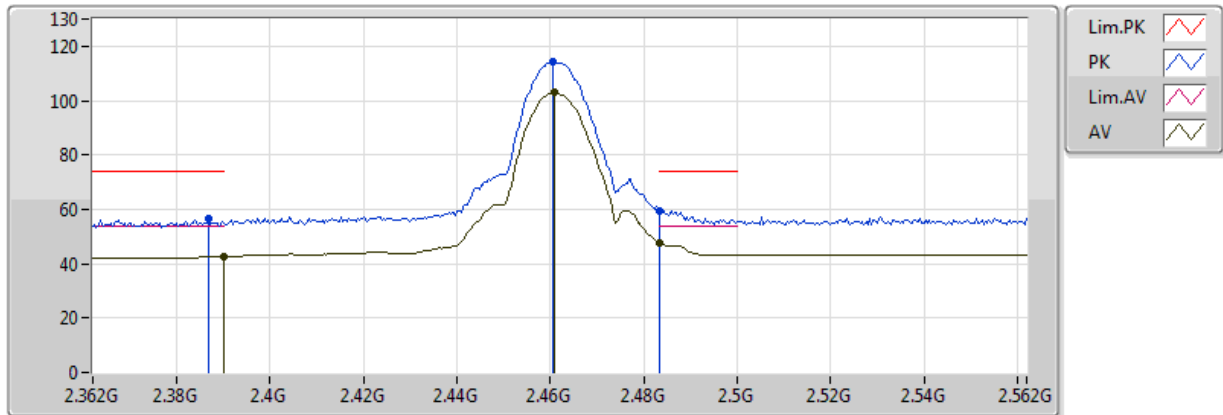


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87388G	35.98	54.00	-18.02	2.25	3	Horizontal	223	1.47	-
PK	4.874G	48.85	74.00	-25.15	2.26	3	Horizontal	223	1.47	-

802.11b_Nss1,(11Mbps)_2TX

2462MHz_TX

22/06/2018

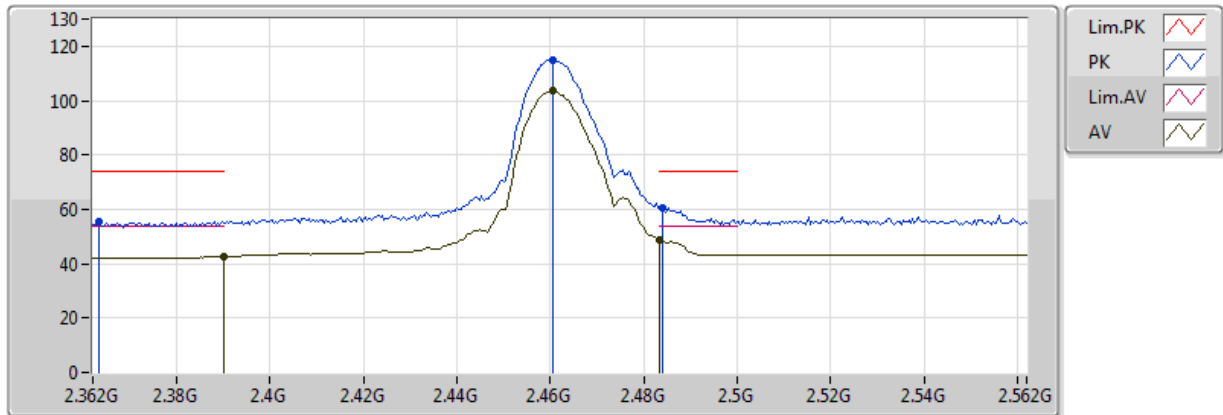


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	42.60	54.00	-11.40	30.77	3	Vertical	164	1.50	-
AV	2.4608G	102.86	Inf	-Inf	31.03	3	Vertical	164	1.50	-
AV	2.483502G	47.61	54.00	-6.39	31.11	3	Vertical	164	1.50	-
PK	2.3868G	56.44	74.00	-17.56	30.76	3	Vertical	164	1.50	-
PK	2.4604G	114.40	Inf	-Inf	31.03	3	Vertical	164	1.50	-
PK	2.483502G	59.33	74.00	-14.67	31.11	3	Vertical	164	1.50	-

802.11b_Nss1,(11Mbps)_2TX

2462MHz_TX

22/06/2018

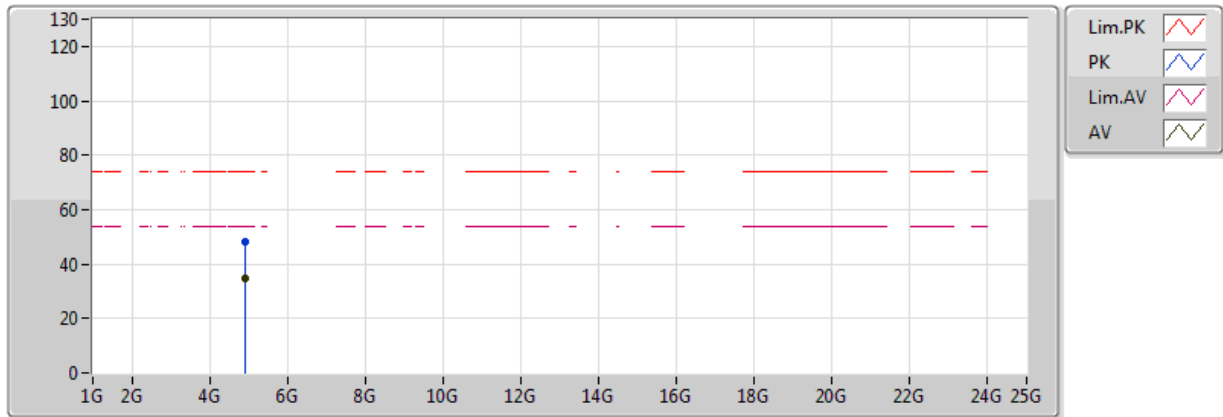


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	42.56	54.00	-11.44	30.77	3	Horizontal	230	1.50	-
AV	2.4604G	103.51	Inf	-Inf	31.03	3	Horizontal	230	1.50	-
AV	2.483502G	48.72	54.00	-5.28	31.11	3	Horizontal	230	1.50	-
PK	2.3632G	55.68	74.00	-18.32	30.68	3	Horizontal	230	1.50	-
PK	2.4604G	115.07	Inf	-Inf	31.03	3	Horizontal	230	1.50	-
PK	2.484G	60.30	74.00	-13.70	31.12	3	Horizontal	230	1.50	-

802.11b_Nss1,(11Mbps)_2TX

2462MHz_TX

22/06/2018

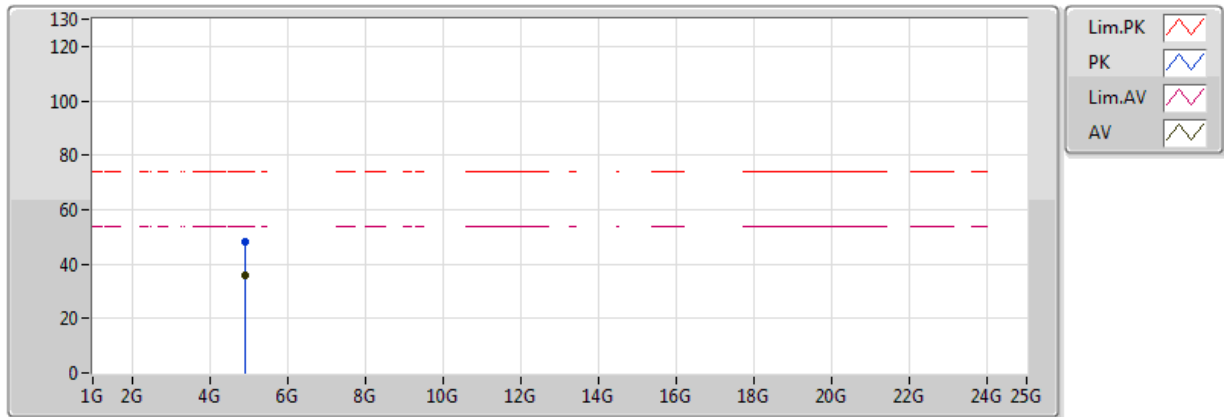


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92388G	34.79	54.00	-19.21	2.38	3	Vertical	152	1.50	-
PK	4.924G	48.25	74.00	-25.75	2.38	3	Vertical	152	1.50	-

802.11b_Nss1,(11Mbps)_2TX

2462MHz_TX

22/06/2018

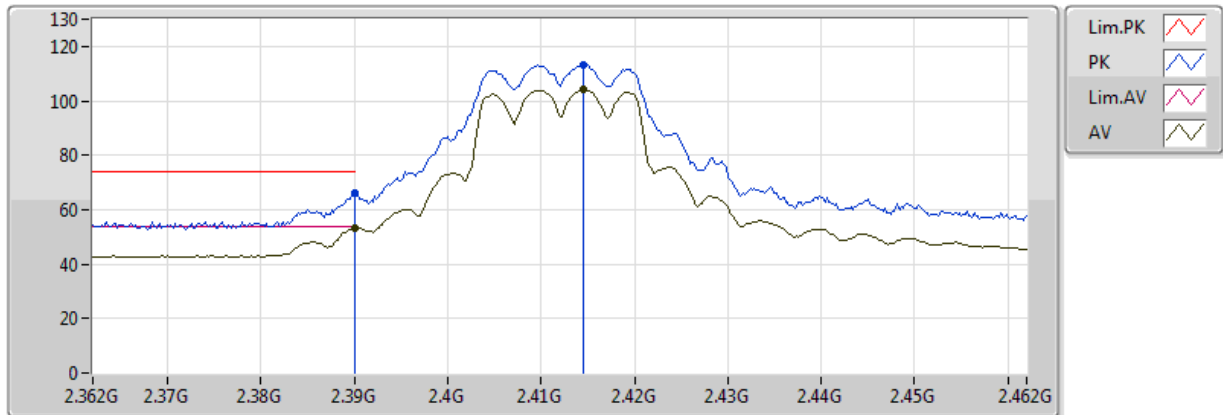


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.924G	35.68	54.00	-18.32	2.38	3	Horizontal	64	1.40	-
PK	4.92382G	48.45	74.00	-25.55	2.38	3	Horizontal	64	1.40	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

31/07/2018

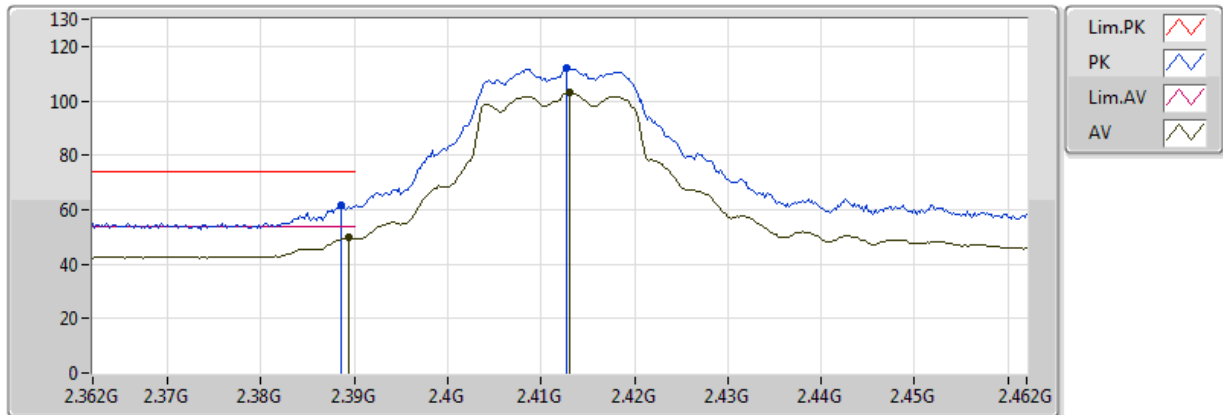


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	52.98	54.00	-1.02	30.77	3	Vertical	178	2.01	-
AV	2.4146G	104.25	Inf	-Inf	30.86	3	Vertical	178	2.01	-
PK	2.389998G	66.12	74.00	-7.88	30.77	3	Vertical	178	2.01	-
PK	2.4146G	113.17	Inf	-Inf	30.86	3	Vertical	178	2.01	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

31/07/2018

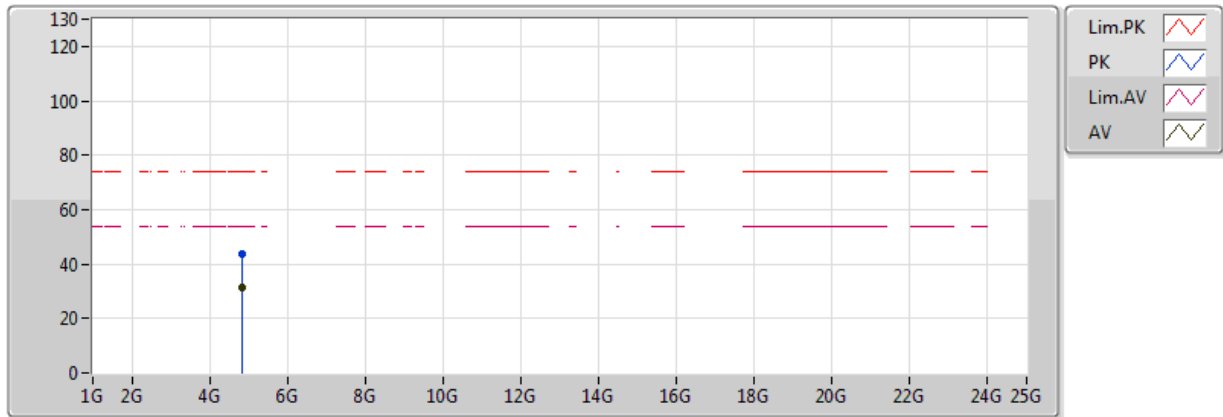


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	49.74	54.00	-4.26	30.77	3	Horizontal	191	1.73	-
AV	2.413G	103.28	Inf	-Inf	30.86	3	Horizontal	191	1.73	-
PK	2.3886G	61.42	74.00	-12.58	30.77	3	Horizontal	191	1.73	-
PK	2.4128G	111.89	Inf	-Inf	30.86	3	Horizontal	191	1.73	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

31/07/2018

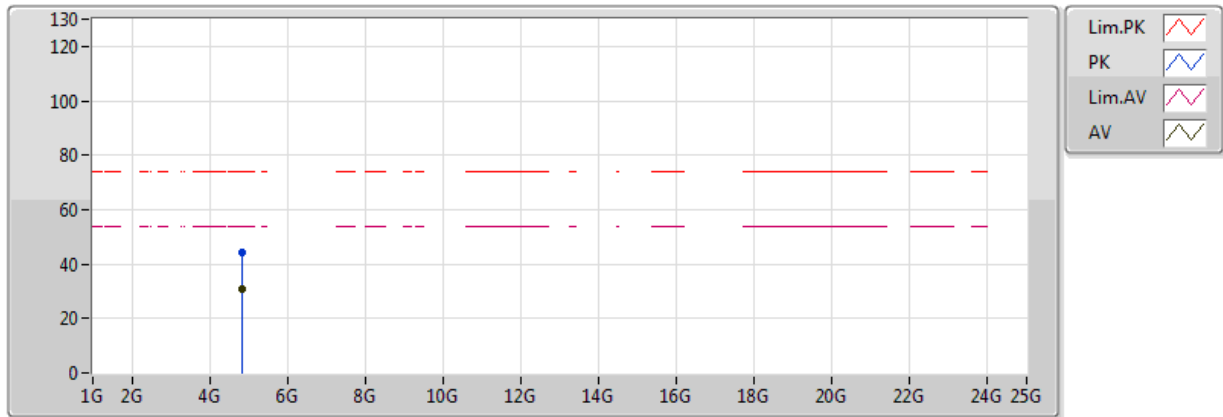


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82754G	31.29	54.00	-22.71	2.14	3	Vertical	254	1.25	-
PK	4.83792G	43.48	74.00	-30.52	2.16	3	Vertical	254	1.25	-

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

31/07/2018

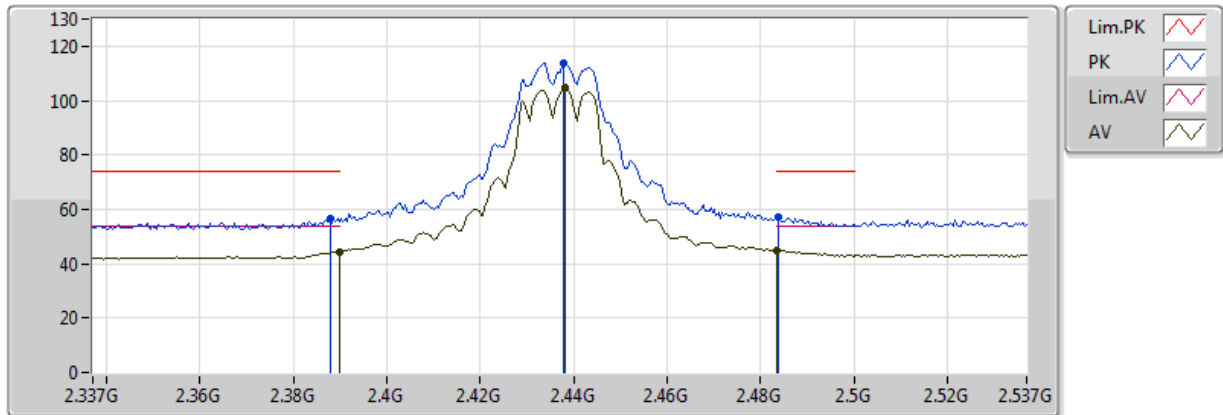


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82394G	30.73	54.00	-23.27	2.13	3	Horizontal	238	1.50	-
PK	4.82226G	44.31	74.00	-29.69	2.13	3	Horizontal	238	1.50	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

31/07/2018

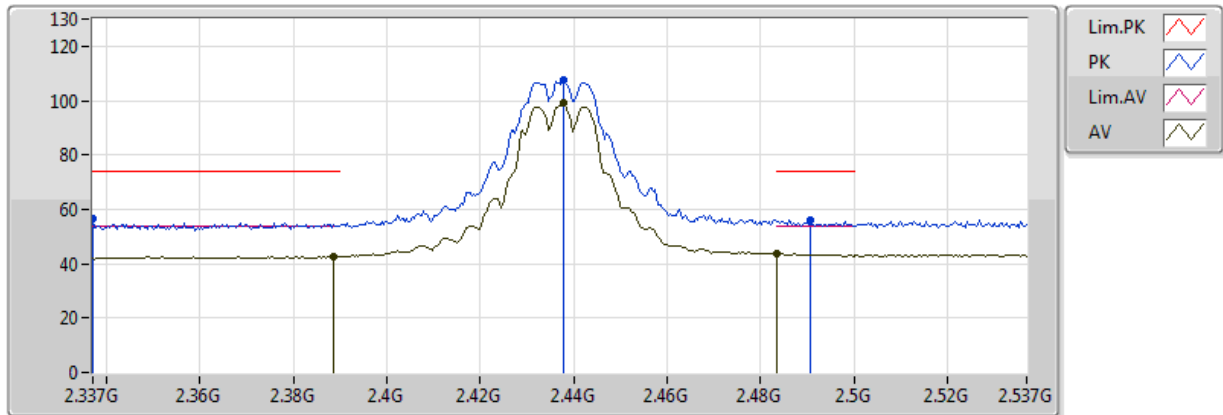


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	44.25	54.00	-9.75	30.77	3	Vertical	185	1.99	-
AV	2.4382G	104.99	Inf	-Inf	30.95	3	Vertical	185	1.99	-
AV	2.483502G	44.87	54.00	-9.13	31.11	3	Vertical	185	1.99	-
PK	2.3878G	56.76	74.00	-17.24	30.77	3	Vertical	185	1.99	-
PK	2.4378G	113.64	Inf	-Inf	30.95	3	Vertical	185	1.99	-
PK	2.4838G	57.26	74.00	-16.74	31.11	3	Vertical	185	1.99	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

31/07/2018

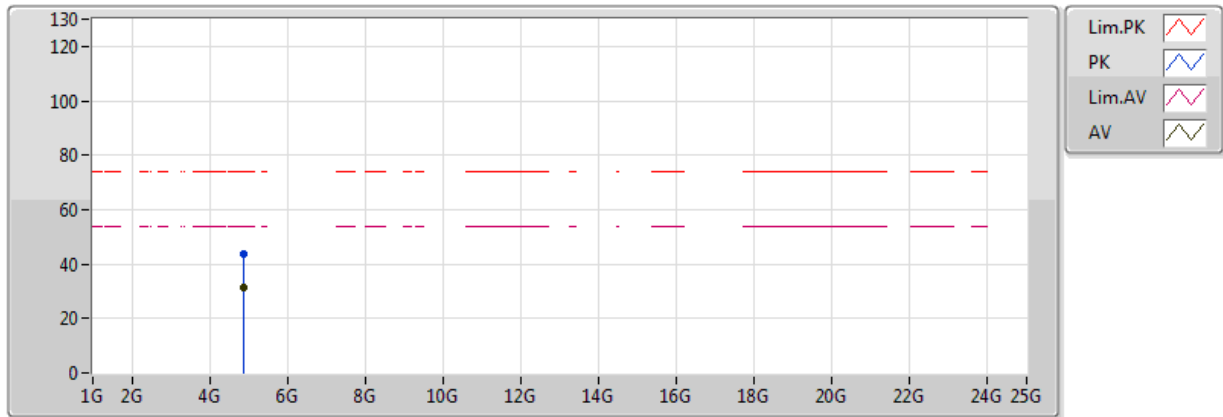


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3886G	42.80	54.00	-11.20	30.77	3	Horizontal	360	2.69	-
AV	2.4378G	98.92	Inf	-Inf	30.95	3	Horizontal	360	2.69	-
AV	2.483502G	43.80	54.00	-10.20	31.11	3	Horizontal	360	2.69	-
PK	2.337G	56.42	74.00	-17.58	30.59	3	Horizontal	360	2.69	-
PK	2.4378G	107.71	Inf	-Inf	30.95	3	Horizontal	360	2.69	-
PK	2.4906G	55.93	74.00	-18.07	31.13	3	Horizontal	360	2.69	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

31/07/2018

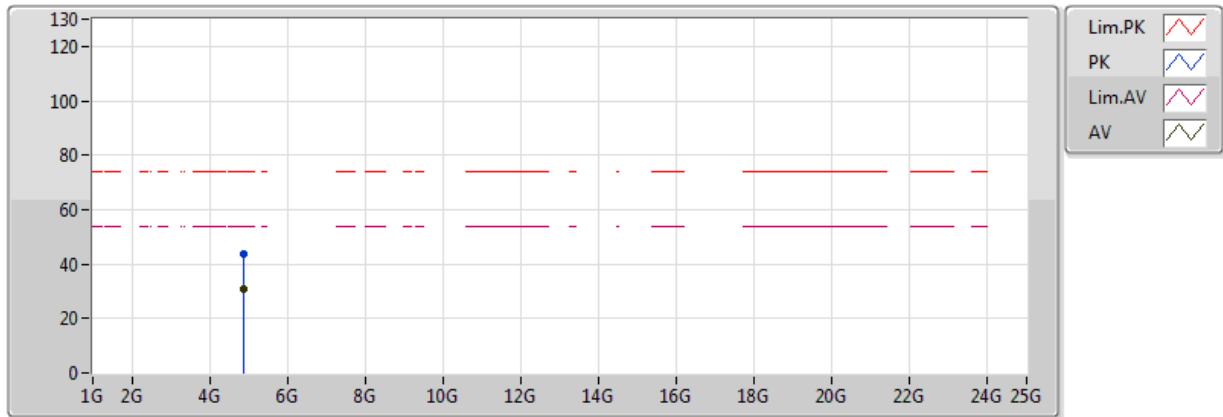


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.874G	31.25	54.00	-22.75	2.26	3	Vertical	169	1.63	-
PK	4.86848G	43.79	74.00	-30.21	2.24	3	Vertical	169	1.63	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

31/07/2018

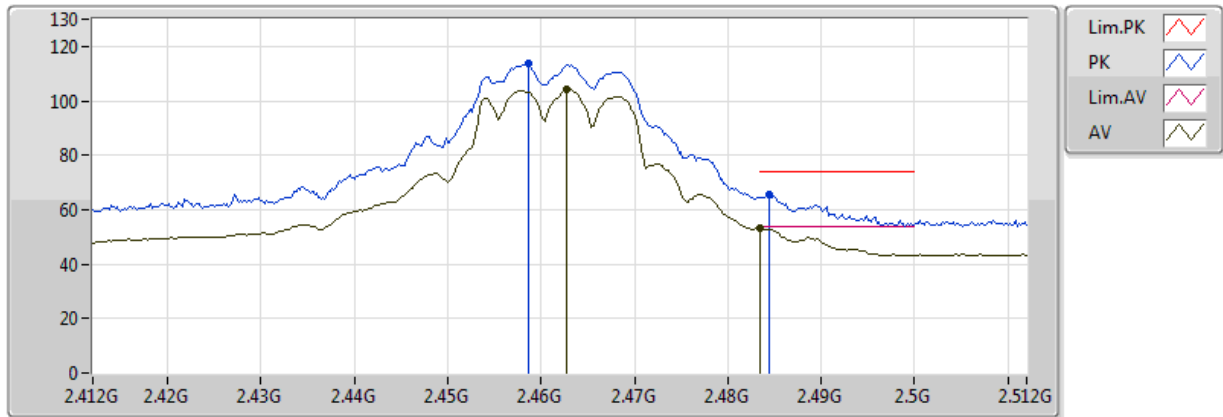


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8779G	30.84	54.00	-23.16	2.26	3	Horizontal	360	1.50	-
PK	4.86824G	43.75	74.00	-30.25	2.24	3	Horizontal	360	1.50	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

31/07/2018

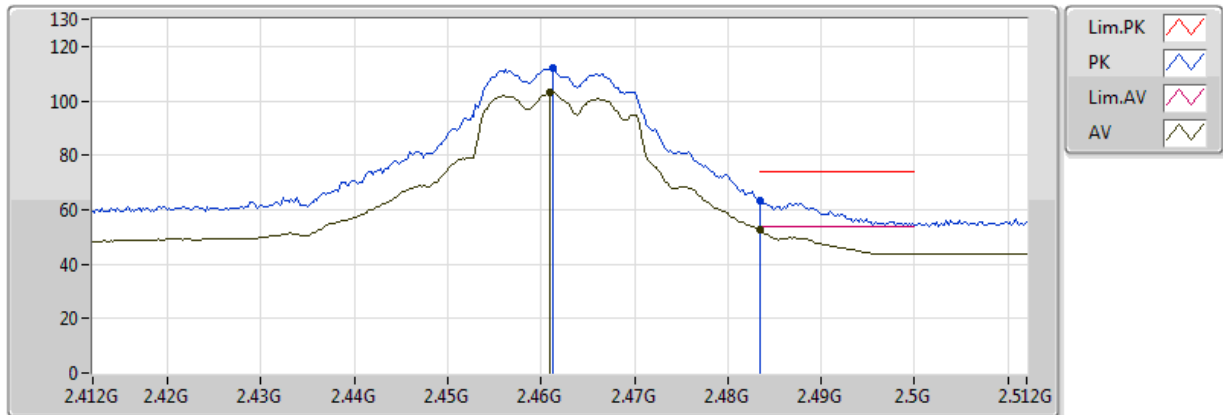


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4628G	104.30	Inf	-Inf	31.04	3	Vertical	182	2.21	-
AV	2.483502G	53.19	54.00	-0.81	31.11	3	Vertical	182	2.21	-
PK	2.4586G	113.71	Inf	-Inf	31.02	3	Vertical	182	2.21	-
PK	2.4844G	65.65	74.00	-8.35	31.12	3	Vertical	182	2.21	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

31/07/2018

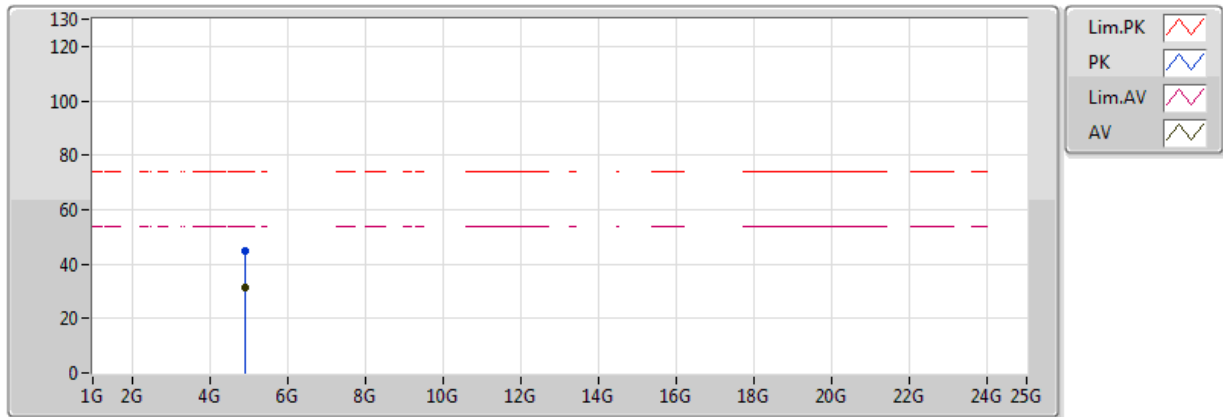


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.461G	103.09	Inf	-Inf	31.03	3	Horizontal	195	1.88	-
AV	2.483502G	52.78	54.00	-1.22	31.11	3	Horizontal	195	1.88	-
PK	2.4612G	112.02	Inf	-Inf	31.03	3	Horizontal	195	1.88	-
PK	2.483502G	63.44	74.00	-10.56	31.11	3	Horizontal	195	1.88	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

31/07/2018

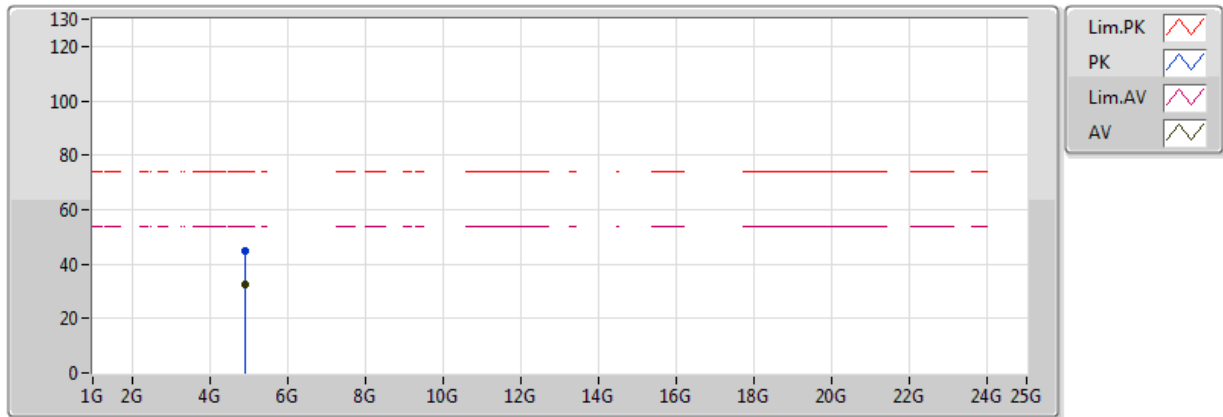


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.92118G	31.45	54.00	-22.55	2.37	3	Vertical	169	1.64	-
PK	4.92856G	44.60	74.00	-29.40	2.39	3	Vertical	169	1.64	-

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

31/07/2018

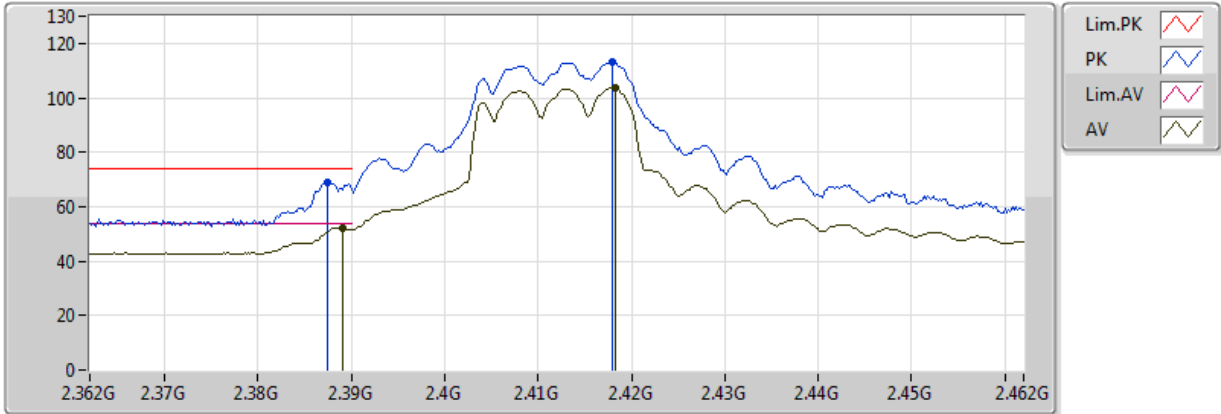


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.91686G	32.36	54.00	-21.64	2.36	3	Horizontal	162	1.33	-
PK	4.91764G	44.71	74.00	-29.29	2.36	3	Horizontal	162	1.33	-

802.11g_Nss1,(54Mbps)_2TX

2412MHz_TX

18/07/2018

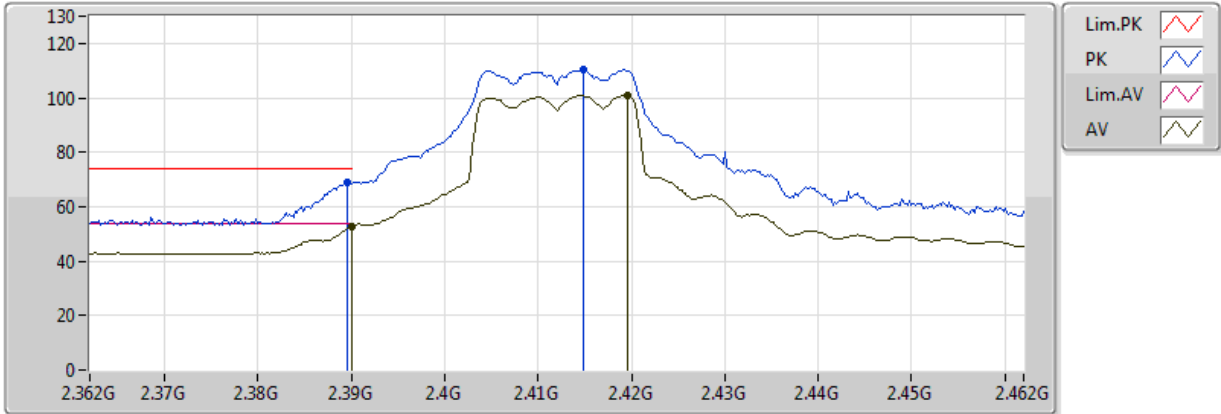


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389G	52.34	54.00	-1.66	30.77	3	Vertical	180	2.02	-
AV	2.4182G	103.48	Inf	-Inf	30.88	3	Vertical	180	2.02	-
PK	2.3874G	68.79	74.00	-5.21	30.76	3	Vertical	180	2.02	-
PK	2.418G	113.35	Inf	-Inf	30.87	3	Vertical	180	2.02	-

802.11g_Nss1,(54Mbps)_2TX

2412MHz_TX

18/07/2018

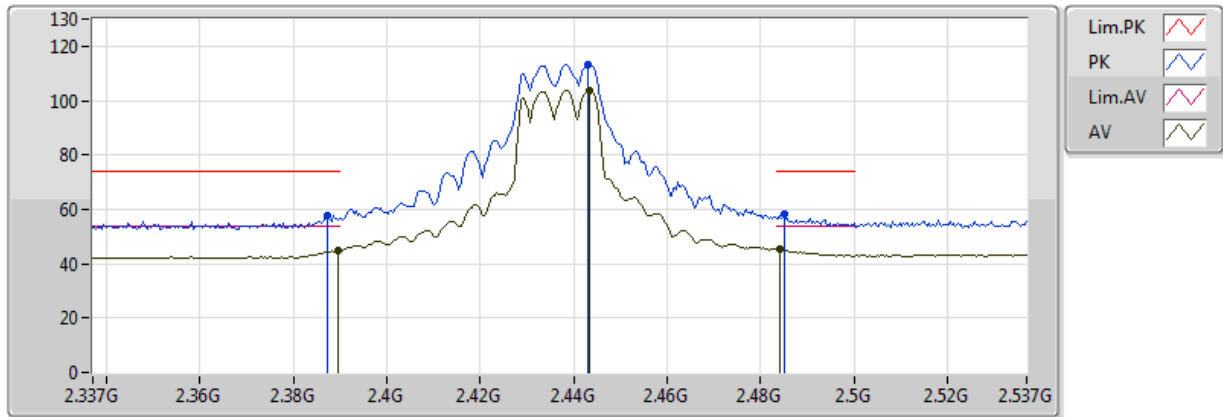


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	52.71	54.00	-1.29	30.77	3	Horizontal	182	1.49	-
AV	2.4196G	100.74	Inf	-Inf	30.88	3	Horizontal	182	1.49	-
PK	2.3896G	69.06	74.00	-4.94	30.77	3	Horizontal	182	1.49	-
PK	2.4148G	110.66	Inf	-Inf	30.86	3	Horizontal	182	1.49	-

802.11g_Nss1,(54Mbps)_2TX

2437MHz_TX

31/07/2018

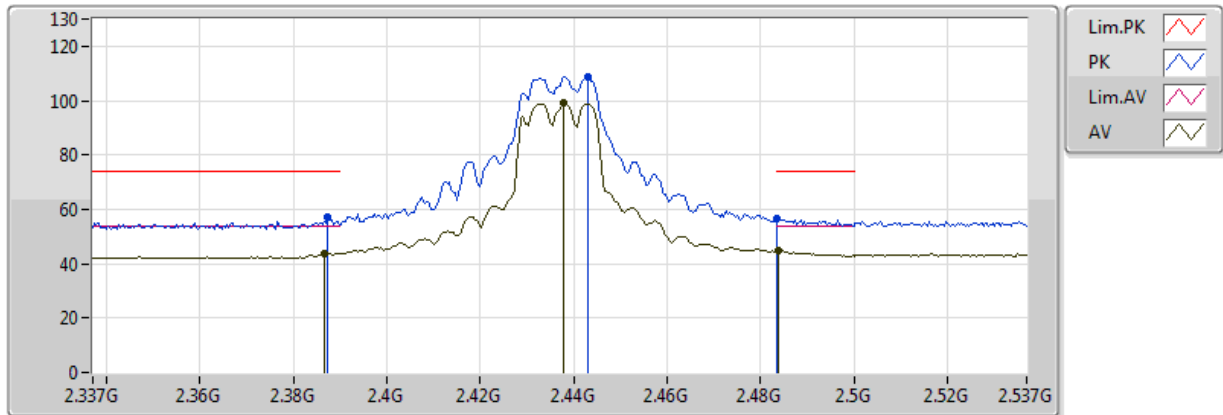


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	44.74	54.00	-9.26	30.77	3	Vertical	184	2.00	-
AV	2.4434G	103.58	Inf	-Inf	30.97	3	Vertical	184	2.00	-
AV	2.4842G	45.19	54.00	-8.81	31.12	3	Vertical	184	2.00	-
PK	2.3874G	57.65	74.00	-16.35	30.76	3	Vertical	184	2.00	-
PK	2.443G	113.37	Inf	-Inf	30.96	3	Vertical	184	2.00	-
PK	2.485G	58.04	74.00	-15.96	31.12	3	Vertical	184	2.00	-

802.11g_Nss1,(54Mbps)_2TX

2437MHz_TX

31/07/2018

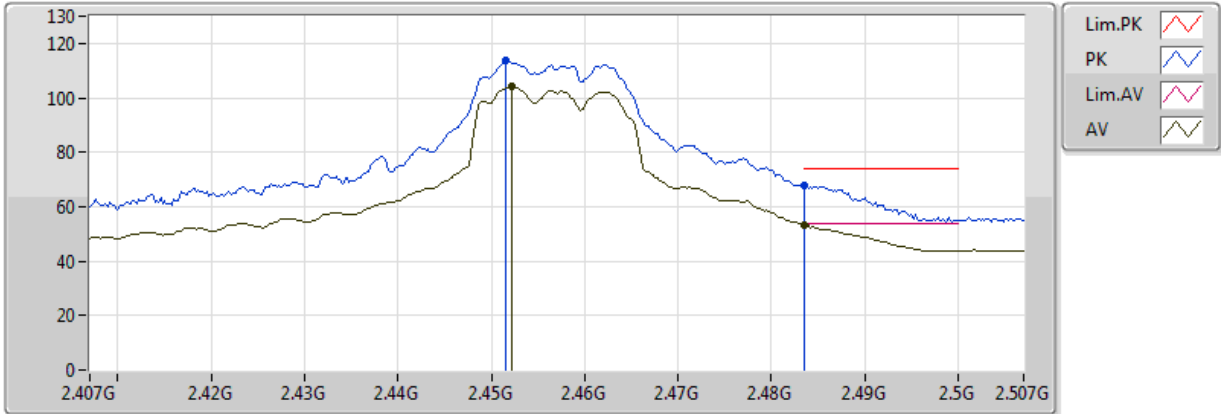


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3866G	43.70	54.00	-10.30	30.76	3	Horizontal	205	1.10	-
AV	2.4378G	99.01	Inf	-Inf	30.95	3	Horizontal	205	1.10	-
AV	2.4838G	44.78	54.00	-9.22	31.11	3	Horizontal	205	1.10	-
PK	2.3874G	56.93	74.00	-17.07	30.76	3	Horizontal	205	1.10	-
PK	2.443G	108.79	Inf	-Inf	30.96	3	Horizontal	205	1.10	-
PK	2.483502G	56.65	74.00	-17.35	31.11	3	Horizontal	205	1.10	-

802.11g_Nss1,(54Mbps)_2TX

2457MHz_TX

18/07/2018

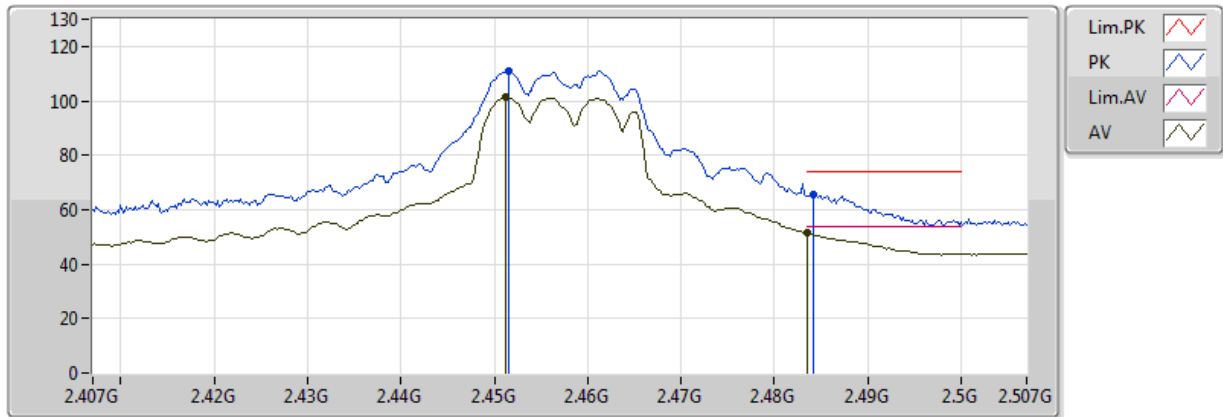


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4522G	104.27	Inf	-Inf	31.00	3	Vertical	175	1.74	-
AV	2.483502G	53.17	54.00	-0.83	31.11	3	Vertical	175	1.74	-
PK	2.4516G	113.86	Inf	-Inf	31.00	3	Vertical	175	1.74	-
PK	2.483502G	67.93	74.00	-6.07	31.11	3	Vertical	175	1.74	-

802.11g_Nss1,(54Mbps)_2TX

2457MHz_TX

18/07/2018

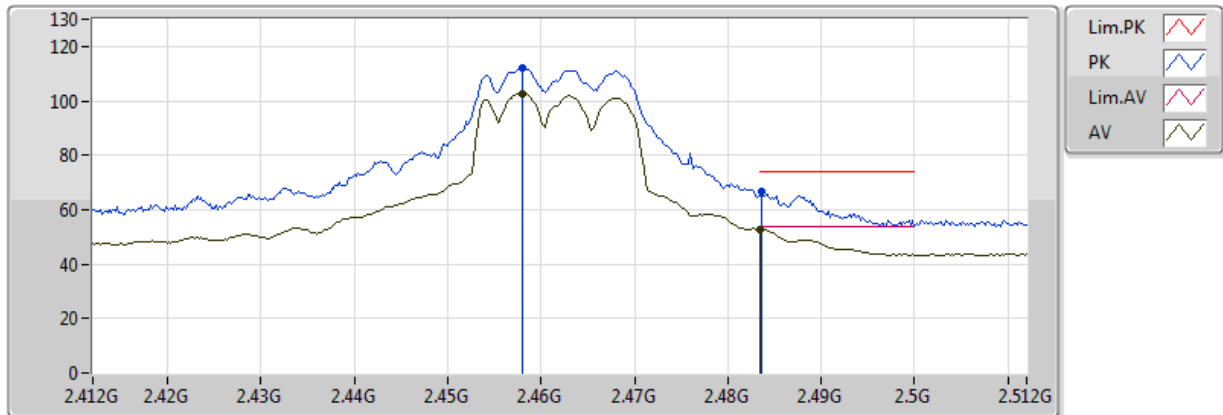


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4512G	101.24	Inf	-Inf	30.99	3	Horizontal	195	1.85	-
AV	2.483502G	51.29	54.00	-2.71	31.11	3	Horizontal	195	1.85	-
PK	2.4516G	111.19	Inf	-Inf	31.00	3	Horizontal	195	1.85	-
PK	2.4842G	65.52	74.00	-8.48	31.12	3	Horizontal	195	1.85	-

802.11g_Nss1,(54Mbps)_2TX

2462MHz_TX

18/07/2018

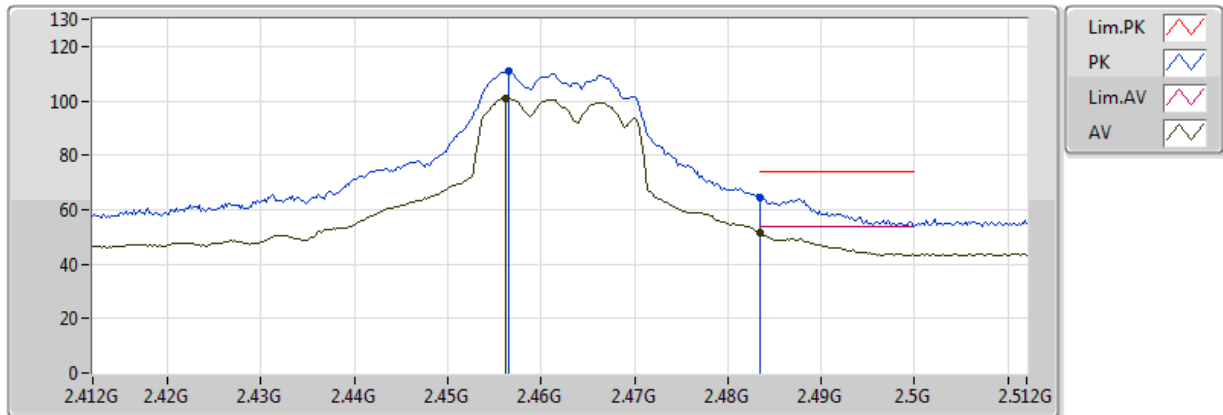


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.458G	102.55	Inf	-Inf	31.02	3	Vertical	180	2.22	-
AV	2.483502G	52.92	54.00	-1.08	31.11	3	Vertical	180	2.22	-
PK	2.458G	111.80	Inf	-Inf	31.02	3	Vertical	180	2.22	-
PK	2.4836G	66.65	74.00	-7.35	31.11	3	Vertical	180	2.22	-

802.11g_Nss1,(54Mbps)_2TX

2462MHz_TX

18/07/2018

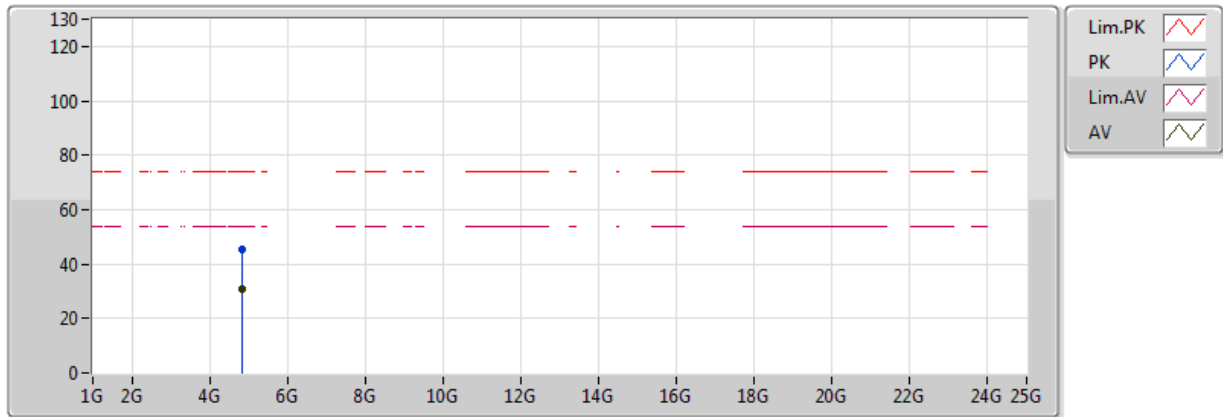


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4562G	101.14	Inf	-Inf	31.01	3	Horizontal	193	1.85	-
AV	2.483502G	51.82	54.00	-2.18	31.11	3	Horizontal	193	1.85	-
PK	2.4566G	111.19	Inf	-Inf	31.01	3	Horizontal	193	1.85	-
PK	2.483502G	64.65	74.00	-9.35	31.11	3	Horizontal	193	1.85	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

31/07/2018

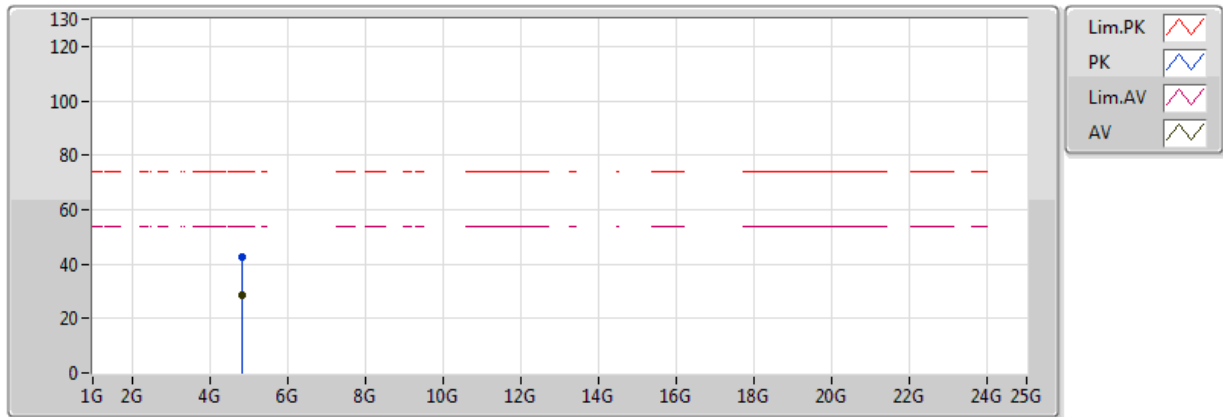


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82118G	30.73	54.00	-23.27	2.12	3	Vertical	151	1.58	-
PK	4.82028G	45.45	74.00	-28.55	2.12	3	Vertical	151	1.58	-

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

31/07/2018

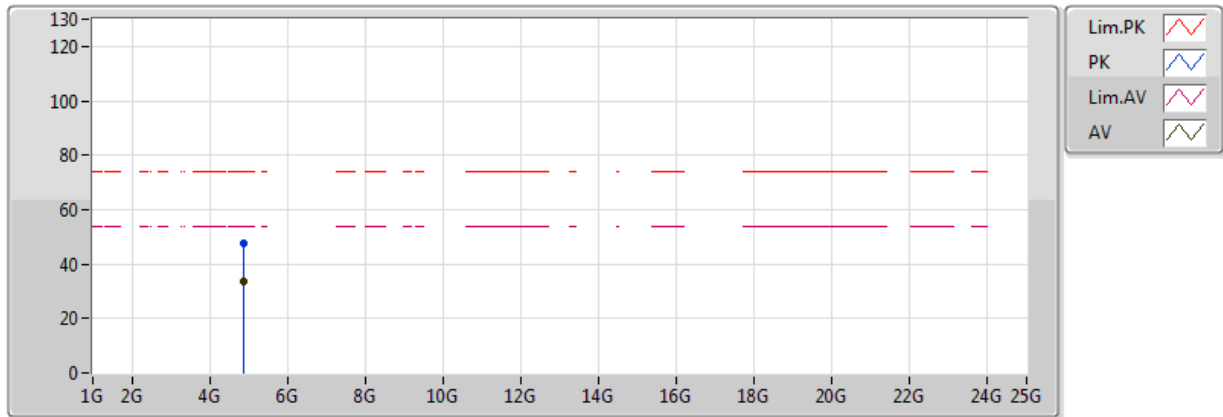


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.82868G	28.62	54.00	-25.38	2.14	3	Horizontal	93	1.50	-
PK	4.83492G	42.61	74.00	-31.39	2.16	3	Horizontal	93	1.50	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

31/07/2018

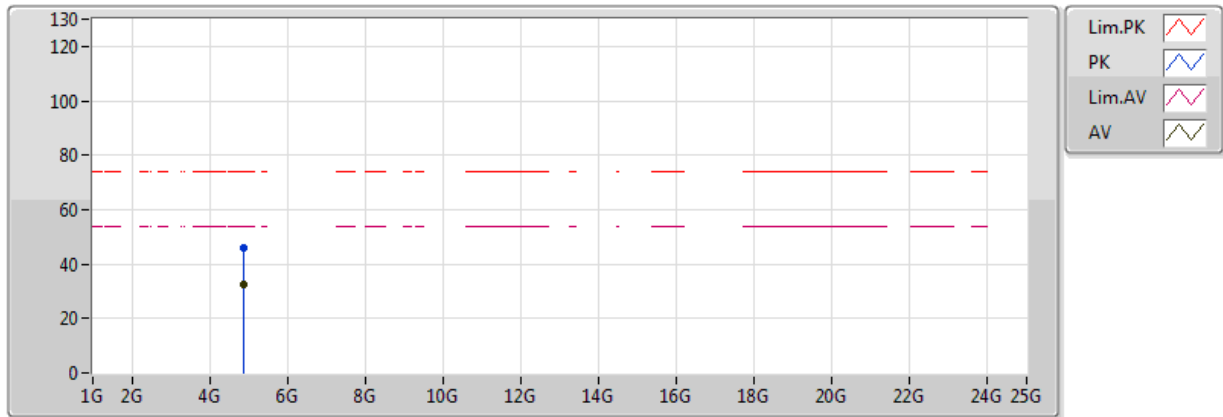


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.8707G	33.61	54.00	-20.39	2.25	3	Vertical	151	1.67	-
PK	4.8716G	47.72	74.00	-26.28	2.25	3	Vertical	151	1.67	-

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

31/07/2018

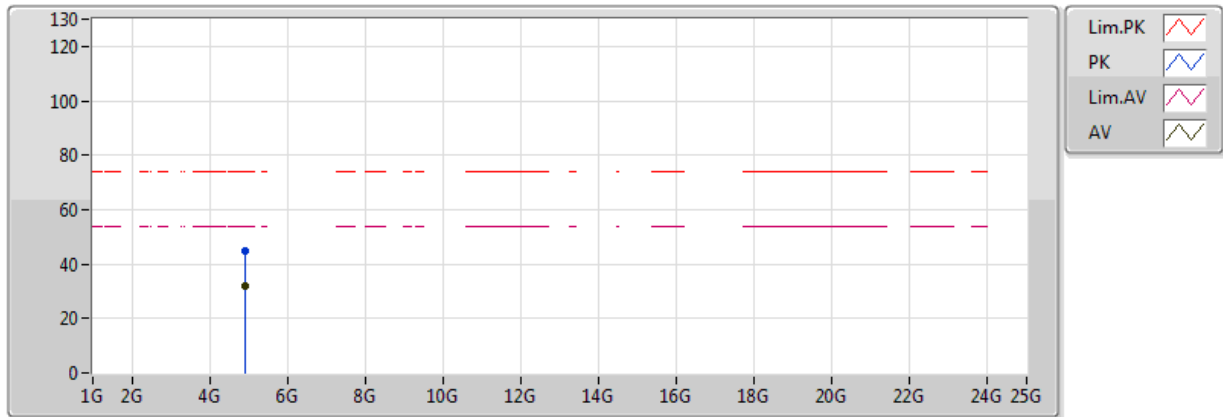


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.87286G	32.43	54.00	-21.57	2.25	3	Horizontal	141	1.54	-
PK	4.87088G	45.97	74.00	-28.03	2.25	3	Horizontal	141	1.54	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

31/07/2018

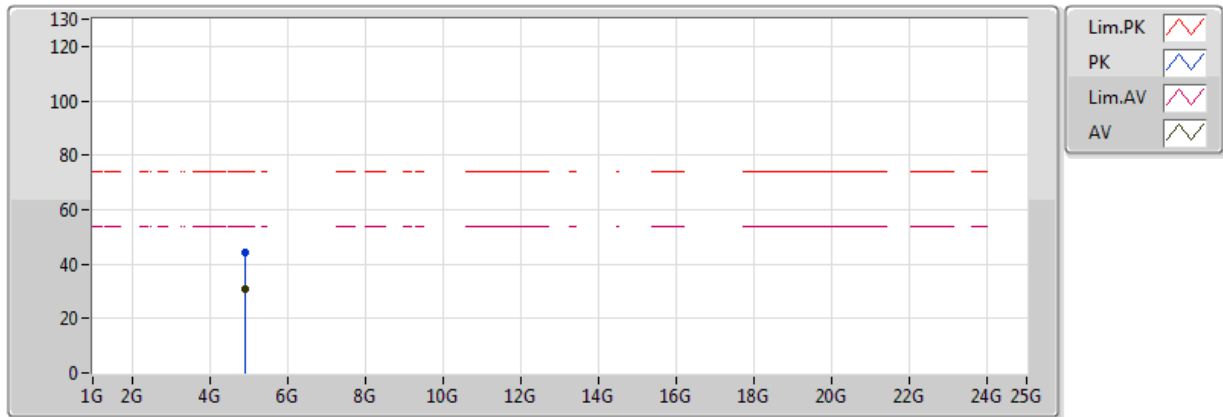


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.91734G	31.86	54.00	-22.14	2.36	3	Vertical	149	1.45	-
PK	4.91614G	44.93	74.00	-29.07	2.36	3	Vertical	149	1.45	-

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

31/07/2018

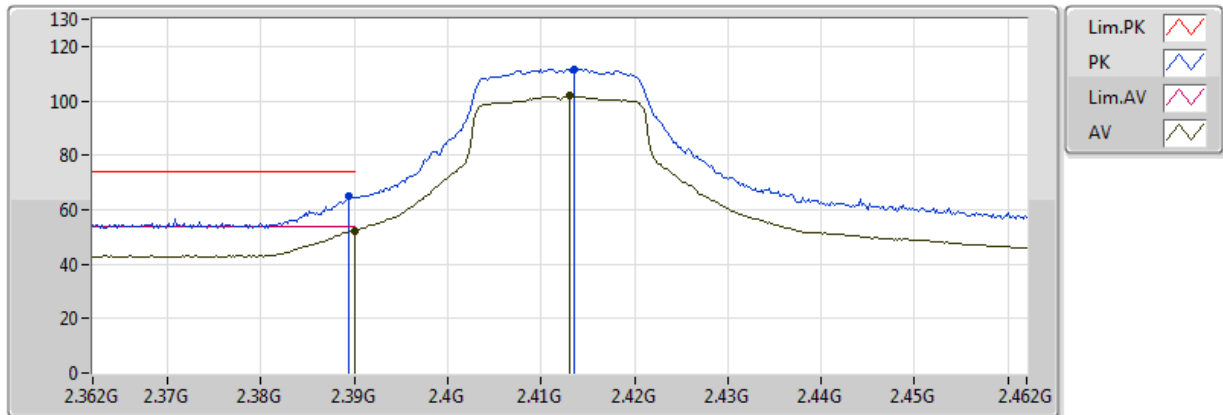


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	4.9168G	31.08	54.00	-22.92	2.36	3	Horizontal	140	1.44	-
PK	4.91884G	44.28	74.00	-29.72	2.37	3	Horizontal	140	1.44	-

802.11n HT20_Nss2,(MCS8)_2TX

2412MHz_TX

18/07/2018

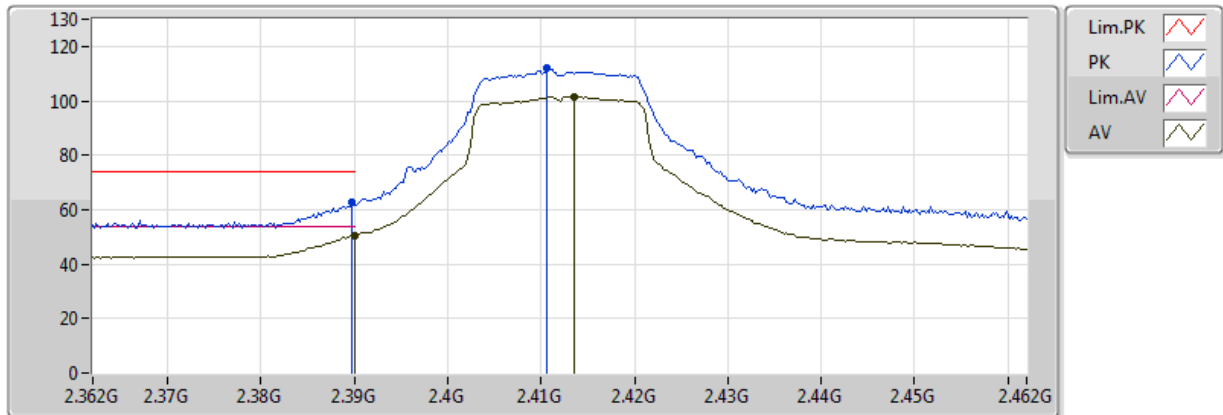


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	52.12	54.00	-1.88	30.77	3	Vertical	175	2.04	-
AV	2.413G	101.79	Inf	-Inf	30.86	3	Vertical	175	2.04	-
PK	2.3894G	64.76	74.00	-9.24	30.77	3	Vertical	175	2.04	-
PK	2.4136G	111.72	Inf	-Inf	30.86	3	Vertical	175	2.04	-

802.11n HT20_Nss2,(MCS8)_2TX

2412MHz_TX

18/07/2018

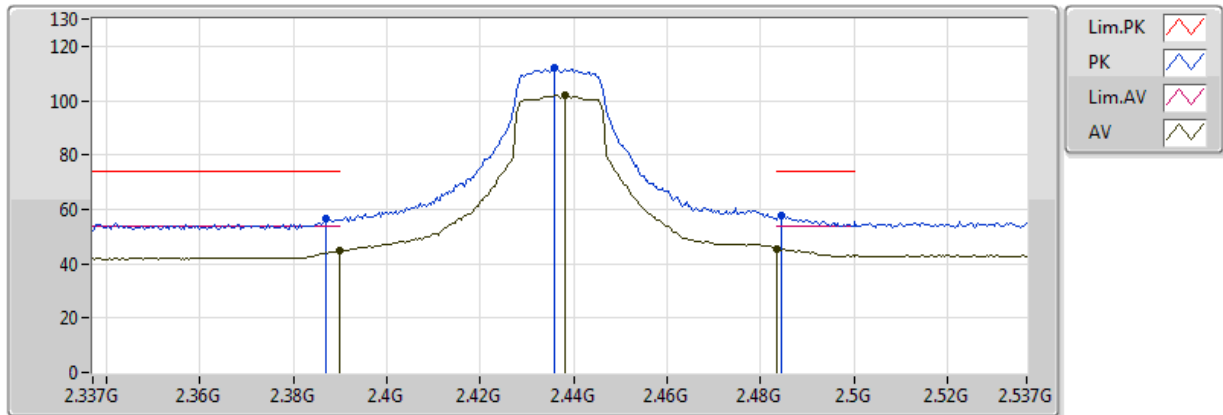


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	50.63	54.00	-3.37	30.77	3	Horizontal	145	1.99	-
AV	2.4136G	101.52	Inf	-Inf	30.86	3	Horizontal	145	1.99	-
PK	2.3898G	62.67	74.00	-11.33	30.77	3	Horizontal	145	1.99	-
PK	2.4106G	111.80	Inf	-Inf	30.85	3	Horizontal	145	1.99	-

802.11n HT20_Nss2,(MCS8)_2TX

2437MHz_TX

31/07/2018

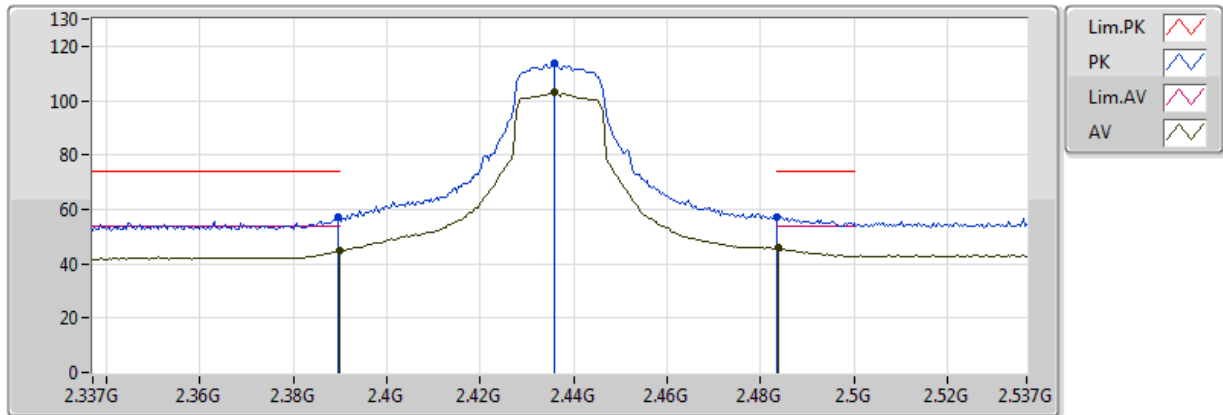


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	44.74	54.00	-9.26	30.77	3	Vertical	167	1.52	-
AV	2.4382G	102.07	Inf	-Inf	30.95	3	Vertical	167	1.52	-
AV	2.483502G	45.58	54.00	-8.42	31.11	3	Vertical	167	1.52	-
PK	2.387G	56.43	74.00	-17.57	30.76	3	Vertical	167	1.52	-
PK	2.4358G	111.95	Inf	-Inf	30.94	3	Vertical	167	1.52	-
PK	2.4846G	57.51	74.00	-16.49	31.12	3	Vertical	167	1.52	-

802.11n HT20_Nss2,(MCS8)_2TX

2437MHz_TX

31/07/2018

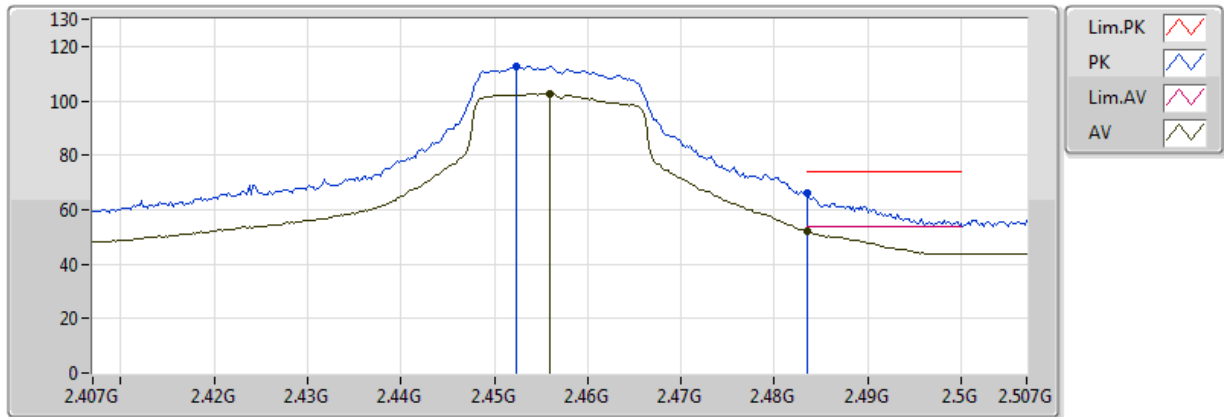


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	44.76	54.00	-9.24	30.77	3	Horizontal	232	2.02	-
AV	2.4358G	102.84	Inf	-Inf	30.94	3	Horizontal	232	2.02	-
AV	2.4838G	45.74	54.00	-8.26	31.11	3	Horizontal	232	2.02	-
PK	2.3894G	56.95	74.00	-17.05	30.77	3	Horizontal	232	2.02	-
PK	2.4358G	113.94	Inf	-Inf	30.94	3	Horizontal	232	2.02	-
PK	2.483502G	57.37	74.00	-16.63	31.11	3	Horizontal	232	2.02	-

802.11n HT20_Nss2,(MCS8)_2TX

2457MHz_TX

18/07/2018

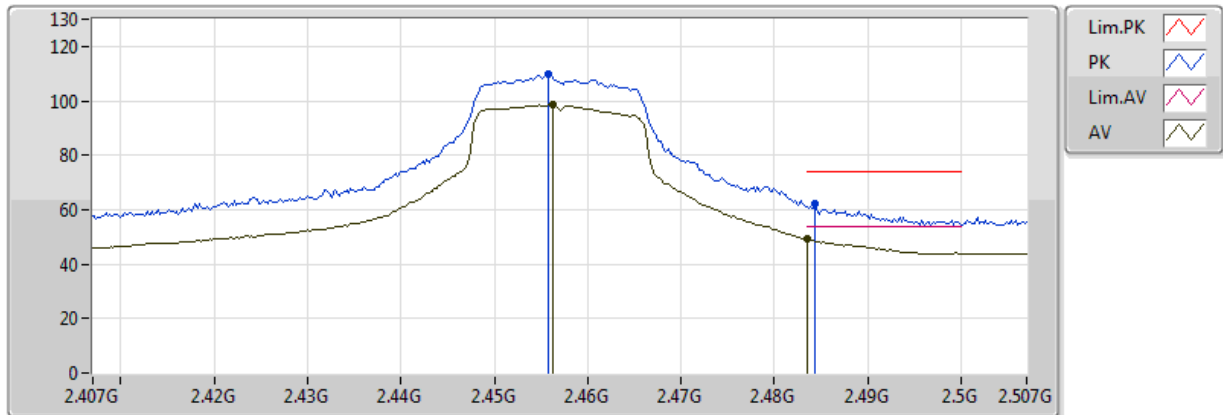


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.456G	102.70	Inf	-Inf	31.01	3	Vertical	175	1.56	-
AV	2.483502G	52.06	54.00	-1.94	31.11	3	Vertical	175	1.56	-
PK	2.4524G	112.71	Inf	-Inf	31.00	3	Vertical	175	1.56	-
PK	2.483502G	65.96	74.00	-8.04	31.11	3	Vertical	175	1.56	-

802.11n HT20_Nss2,(MCS8)_2TX

2457MHz_TX

18/07/2018

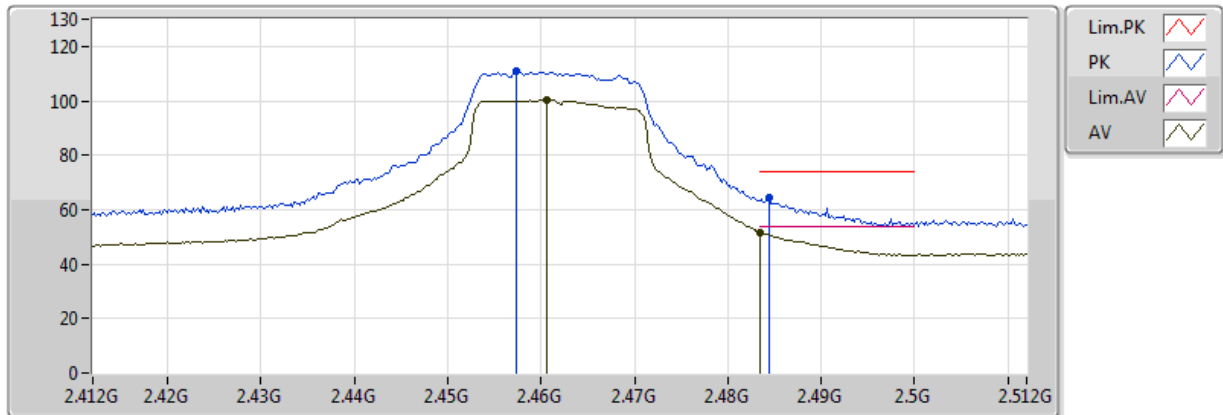


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4562G	98.43	Inf	-Inf	31.01	3	Horizontal	141	1.95	-
AV	2.483502G	49.27	54.00	-4.73	31.11	3	Horizontal	141	1.95	-
PK	2.4558G	109.88	Inf	-Inf	31.01	3	Horizontal	141	1.95	-
PK	2.4844G	62.36	74.00	-11.64	31.12	3	Horizontal	141	1.95	-

802.11n HT20_Nss2,(MCS8)_2TX

2462MHz_TX

18/07/2018

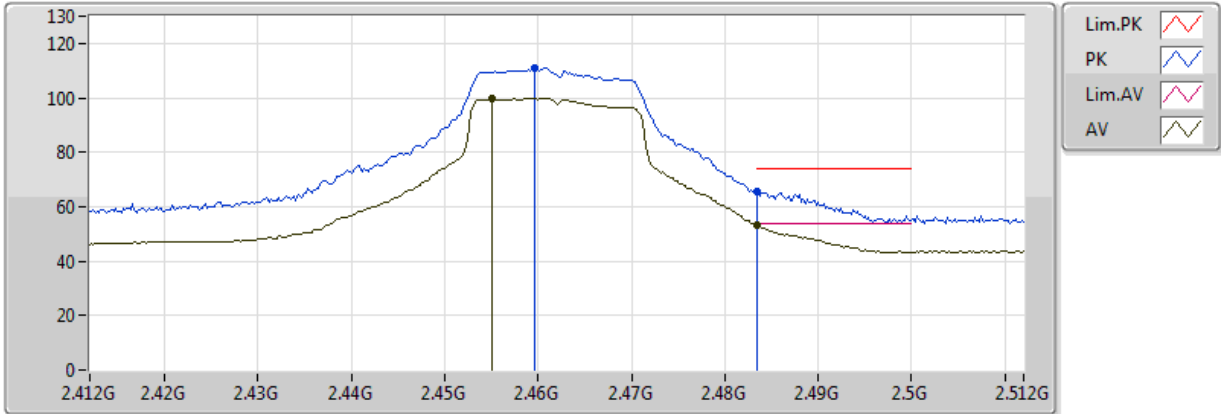


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4606G	100.30	Inf	-Inf	31.03	3	Vertical	179	2.20	-
AV	2.483502G	51.82	54.00	-2.18	31.11	3	Vertical	179	2.20	-
PK	2.4574G	110.96	Inf	-Inf	31.02	3	Vertical	179	2.20	-
PK	2.4844G	64.66	74.00	-9.34	31.12	3	Vertical	179	2.20	-

802.11n HT20_Nss2,(MCS8)_2TX

2462MHz_TX

18/07/2018

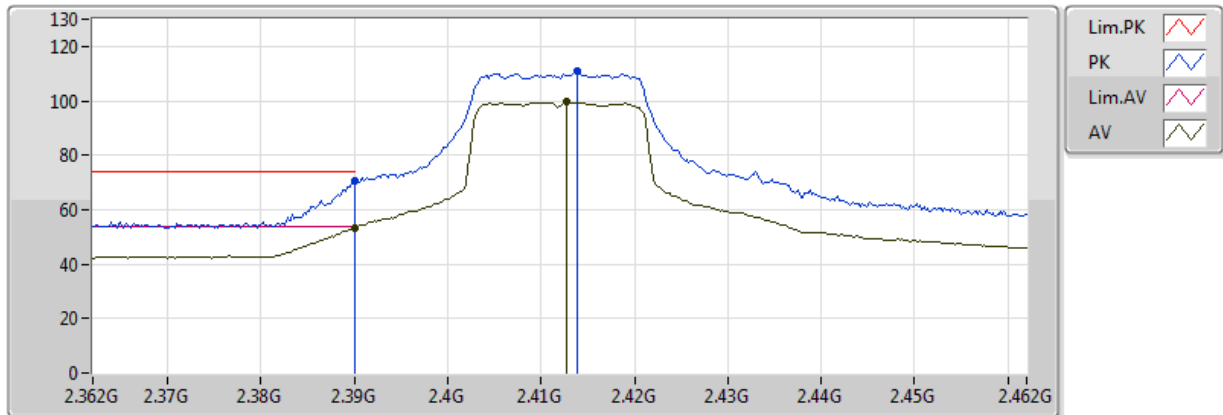


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.455G	99.78	Inf	-Inf	31.01	3	Horizontal	144	1.73	-
AV	2.483502G	53.15	54.00	-0.85	31.11	3	Horizontal	144	1.73	-
PK	2.4596G	111.07	Inf	-Inf	31.02	3	Horizontal	144	1.73	-
PK	2.483502G	65.55	74.00	-8.45	31.11	3	Horizontal	144	1.73	-

802.11n HT20_Nss2,(MCS15)_2TX

2412MHz_TX

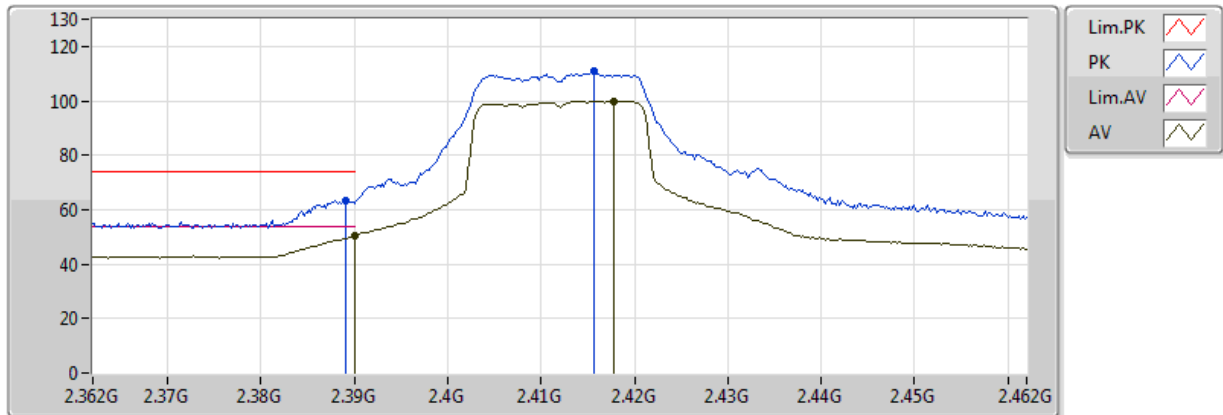
18/07/2018



802.11n HT20_Nss2,(MCS15)_2TX

2412MHz_TX

18/07/2018

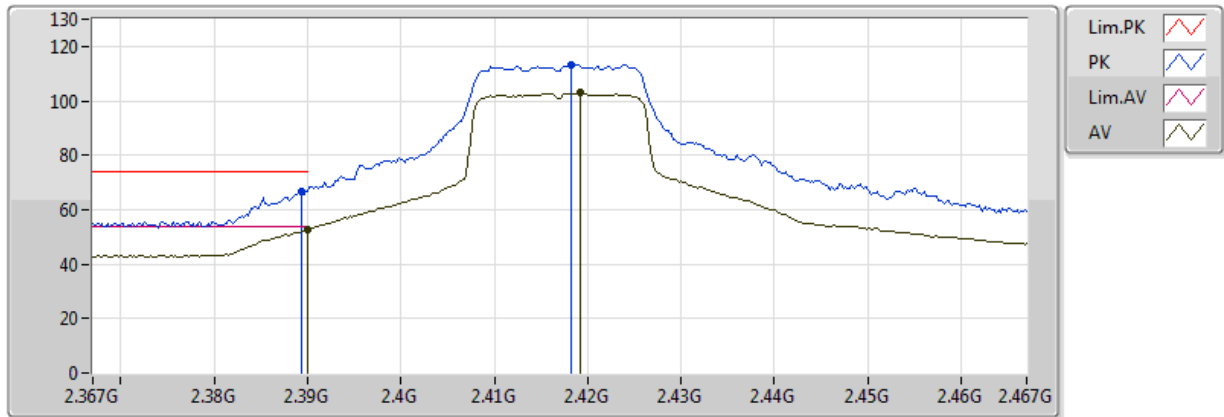


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	50.48	54.00	-3.52	30.77	3	Horizontal	145	2.01	-
AV	2.4178G	100.02	Inf	-Inf	30.87	3	Horizontal	145	2.01	-
PK	2.389G	63.41	74.00	-10.59	30.77	3	Horizontal	145	2.01	-
PK	2.4156G	110.76	Inf	-Inf	30.87	3	Horizontal	145	2.01	-

802.11n HT20_Nss2,(MCS15)_2TX

2417MHz_TX

18/07/2018

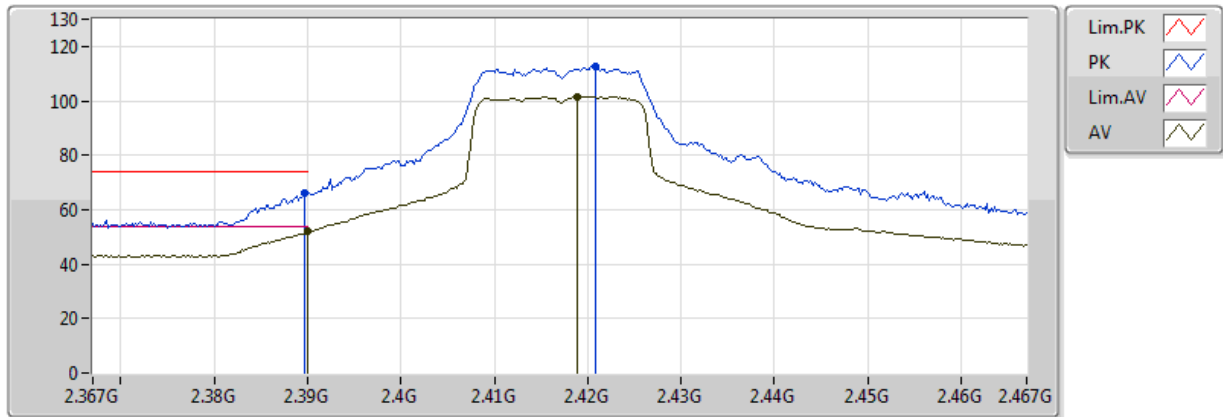


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	52.49	54.00	-1.51	30.77	3	Vertical	181	1.79	-
AV	2.4192G	102.85	Inf	-Inf	30.88	3	Vertical	181	1.79	-
PK	2.3894G	66.91	74.00	-7.09	30.77	3	Vertical	181	1.79	-
PK	2.4182G	113.31	Inf	-Inf	30.88	3	Vertical	181	1.79	-

802.11n HT20_Nss2,(MCS15)_2TX

2417MHz_TX

18/07/2018

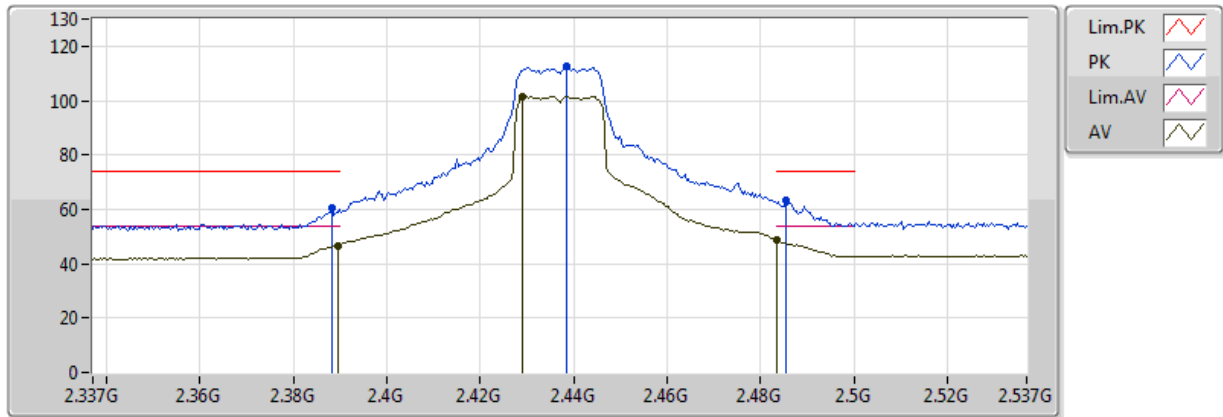


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.389998G	51.84	54.00	-2.16	30.77	3	Horizontal	192	1.52	-
AV	2.4188G	101.65	Inf	-Inf	30.88	3	Horizontal	192	1.52	-
PK	2.3896G	66.07	74.00	-7.93	30.77	3	Horizontal	192	1.52	-
PK	2.4208G	112.88	Inf	-Inf	30.88	3	Horizontal	192	1.52	-

802.11n HT20_Nss2,(MCS15)_2TX

2437MHz_TX

31/07/2018

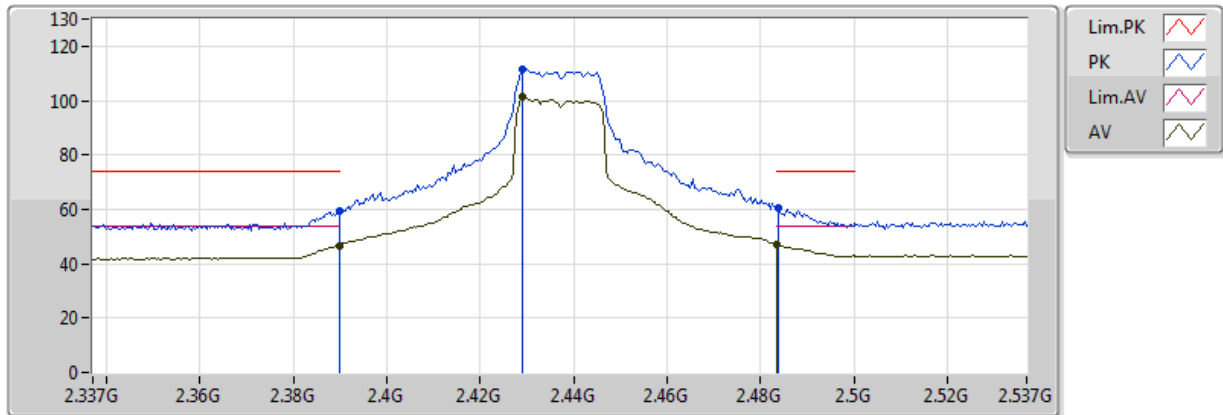


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3894G	46.73	54.00	-7.27	30.77	3	Vertical	163	1.58	-
AV	2.429G	101.51	Inf	-Inf	30.91	3	Vertical	163	1.58	-
AV	2.483502G	48.57	54.00	-5.43	31.11	3	Vertical	163	1.58	-
PK	2.3882G	60.25	74.00	-13.75	30.77	3	Vertical	163	1.58	-
PK	2.4386G	112.38	Inf	-Inf	30.95	3	Vertical	163	1.58	-
PK	2.4854G	63.15	74.00	-10.85	31.12	3	Vertical	163	1.58	-

802.11n HT20_Nss2,(MCS15)_2TX

2437MHz_TX

31/07/2018

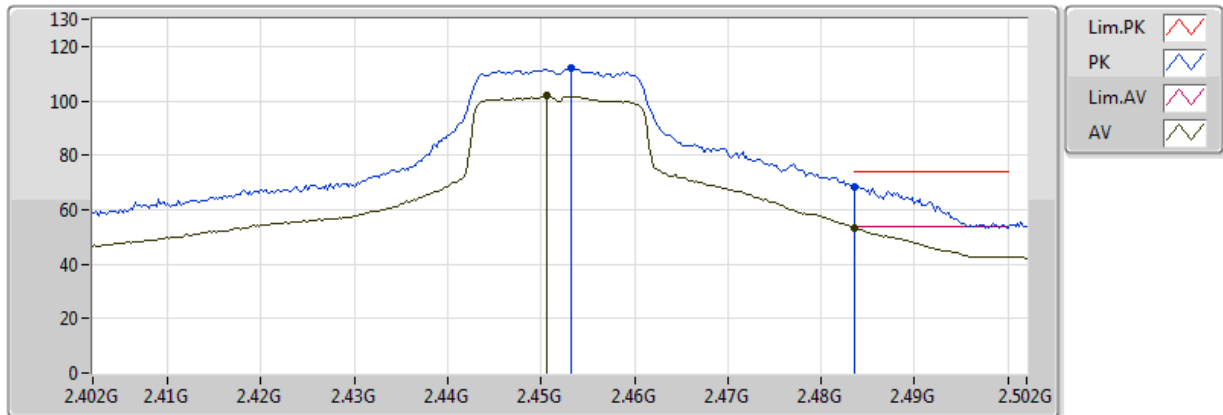


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.3898G	46.69	54.00	-7.31	30.77	3	Horizontal	186	1.32	-
AV	2.429G	101.20	Inf	-Inf	30.91	3	Horizontal	186	1.32	-
AV	2.483502G	47.08	54.00	-6.92	31.11	3	Horizontal	186	1.32	-
PK	2.3898G	59.32	74.00	-14.68	30.77	3	Horizontal	186	1.32	-
PK	2.429G	111.39	Inf	-Inf	30.91	3	Horizontal	186	1.32	-
PK	2.4838G	60.74	74.00	-13.26	31.11	3	Horizontal	186	1.32	-

802.11n HT20_Nss2,(MCS15)_2TX

2452MHz_TX

31/07/2018

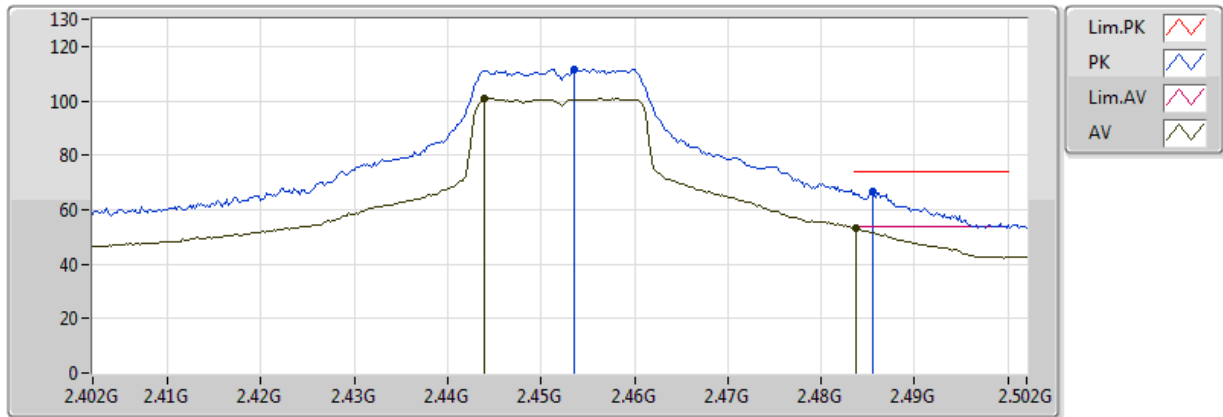


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4506G	101.73	Inf	-Inf	30.99	3	Vertical	171	1.51	-
AV	2.483502G	53.19	54.00	-0.81	31.11	3	Vertical	171	1.51	-
PK	2.4532G	112.15	Inf	-Inf	31.00	3	Vertical	171	1.51	-
PK	2.483502G	68.32	74.00	-5.68	31.11	3	Vertical	171	1.51	-

802.11n HT20_Nss2,(MCS15)_2TX

2452MHz_TX

31/07/2018

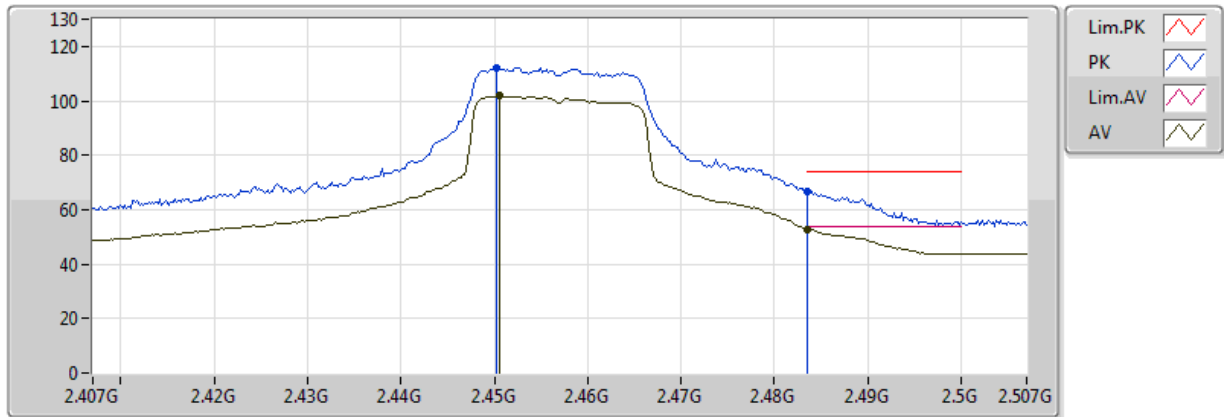


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.444G	100.97	Inf	-Inf	30.97	3	Horizontal	229	1.92	-
AV	2.4838G	53.30	54.00	-0.70	31.11	3	Horizontal	229	1.92	-
PK	2.4536G	111.56	Inf	-Inf	31.00	3	Horizontal	229	1.92	-
PK	2.4856G	66.84	74.00	-7.16	31.12	3	Horizontal	229	1.92	-

802.11n HT20_Nss2,(MCS15)_2TX

2457MHz_TX

18/07/2018

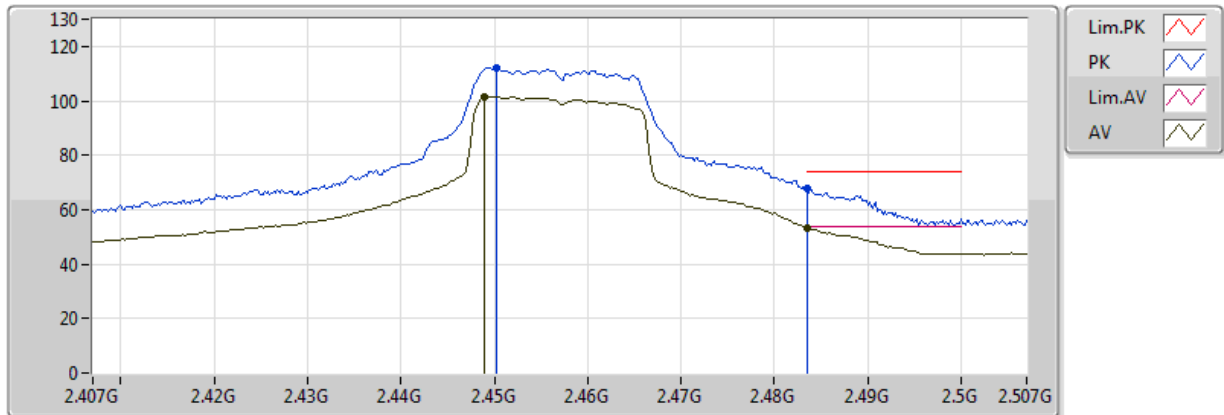


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4506G	101.85	Inf	-Inf	30.99	3	Vertical	178	1.76	-
AV	2.483502G	52.77	54.00	-1.23	31.11	3	Vertical	178	1.76	-
PK	2.4502G	112.01	Inf	-Inf	30.99	3	Vertical	178	1.76	-
PK	2.483502G	66.74	74.00	-7.26	31.11	3	Vertical	178	1.76	-

802.11n HT20_Nss2,(MCS15)_2TX

2457MHz_TX

18/07/2018

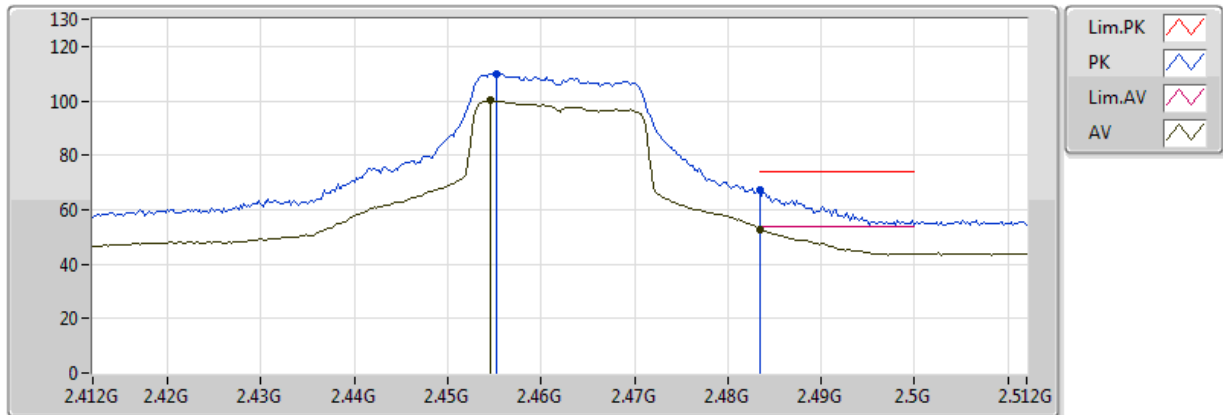


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.449G	101.57	Inf	-Inf	30.99	3	Horizontal	192	1.26	-
AV	2.483502G	53.20	54.00	-0.80	31.11	3	Horizontal	192	1.26	-
PK	2.4502G	111.94	Inf	-Inf	30.99	3	Horizontal	192	1.26	-
PK	2.483502G	67.62	74.00	-6.38	31.11	3	Horizontal	192	1.26	-

802.11n HT20_Nss2,(MCS15)_2TX

2462MHz_TX

18/07/2018

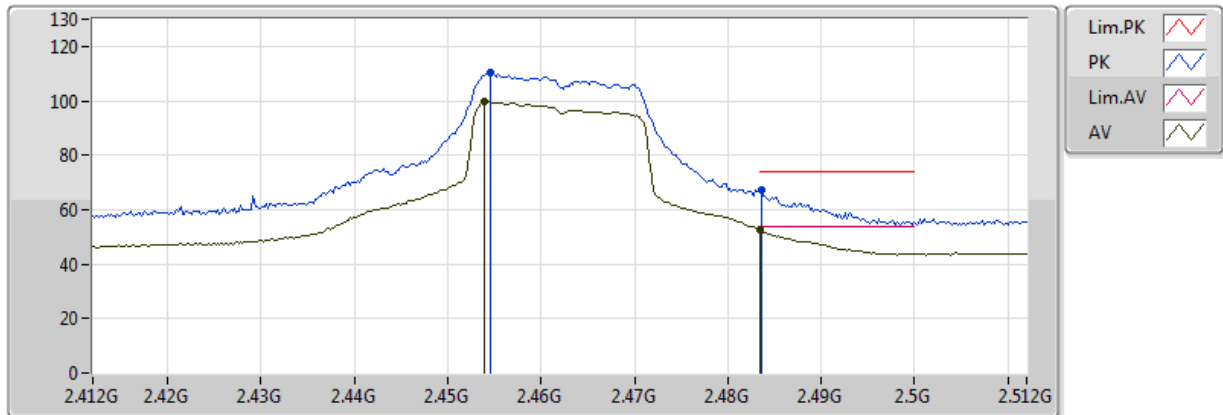


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.4546G	100.11	Inf	-Inf	31.01	3	Vertical	176	1.55	-
AV	2.483502G	52.87	54.00	-1.13	31.11	3	Vertical	176	1.55	-
PK	2.4552G	110.01	Inf	-Inf	31.01	3	Vertical	176	1.55	-
PK	2.483502G	67.37	74.00	-6.63	31.11	3	Vertical	176	1.55	-

802.11n HT20_Nss2,(MCS15)_2TX

2462MHz_TX

18/07/2018



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
AV	2.454G	99.72	Inf	-Inf	31.00	3	Horizontal	190	1.26	-
AV	2.483502G	52.44	54.00	-1.56	31.11	3	Horizontal	190	1.26	-
PK	2.4546G	110.24	Inf	-Inf	31.01	3	Horizontal	190	1.26	-
PK	2.4836G	67.17	74.00	-6.83	31.11	3	Horizontal	190	1.26	-



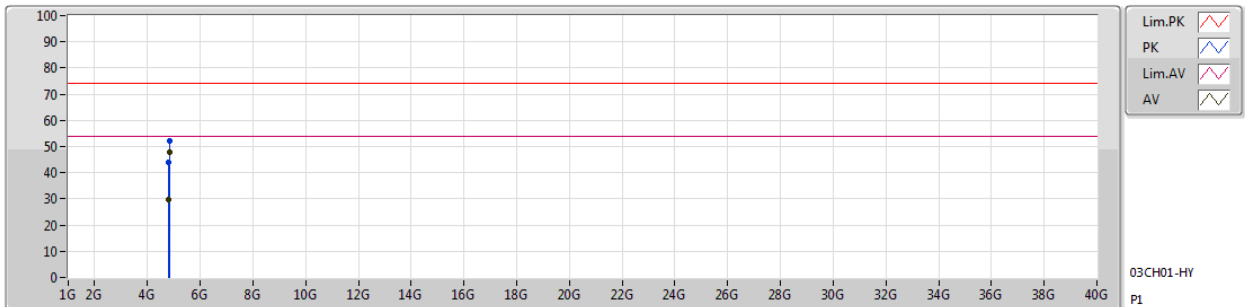
RSE above 1GHz Result

Appendix G

Summary

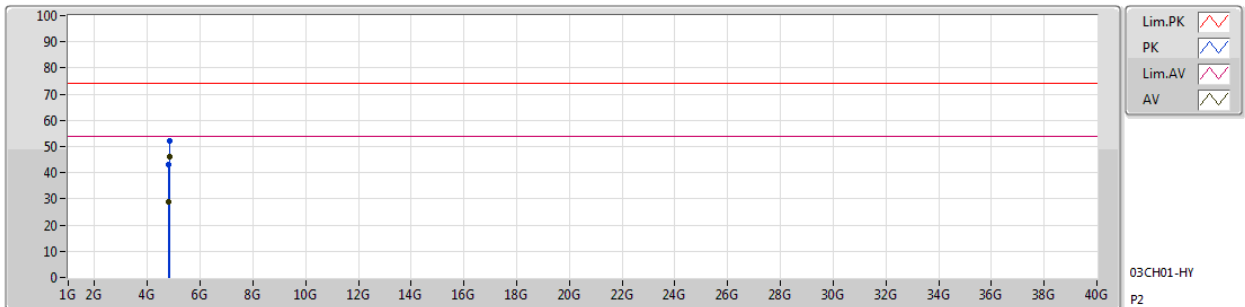
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
1	Pass	AV	4.824G	48.02	54.00	-5.98	2.13	3	Vertical	244	1.50	-
2	Pass	AV	4.824G	47.25	54.00	-6.75	2.13	3	Vertical	244	1.50	-

Radiation-above 1GHz_1



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)		
AV	4.80478G	29.77	54.00	-24.23	2.08	3	Vertical	75	1.67	-	27.69	31.19	5.19	34.30		
AV	4.824G	48.02	54.00	-5.98	2.13	3	Vertical	244	1.50	-	45.89	31.22	5.20	34.29		
PK	4.80478G	43.76	74.00	-30.24	2.08	3	Vertical	75	1.67	-	41.68	31.19	5.19	34.30		
PK	4.82406G	52.29	74.00	-21.71	2.13	3	Vertical	244	1.50	-	50.16	31.22	5.20	34.29		

Radiation-above 1GHz_1

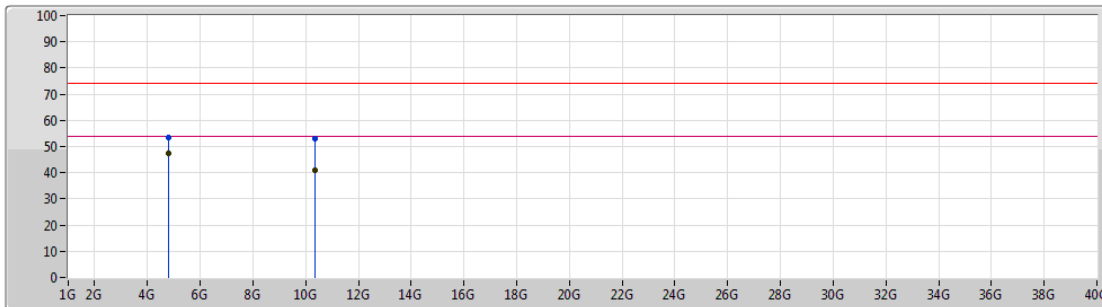


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)		
AV	4.80634G	28.76	54.00	-25.24	2.08	3	Horizontal	336	1.50	-	26.68	31.19	5.19	34.30		
AV	4.824G	46.08	54.00	-7.92	2.13	3	Horizontal	224	1.66	-	43.95	31.22	5.20	34.29		
PK	4.80634G	42.96	74.00	-31.04	2.08	3	Horizontal	336	1.50	-	40.88	31.19	5.19	34.30		
PK	4.82406G	51.94	74.00	-22.06	2.13	3	Horizontal	224	1.66	-	49.81	31.22	5.20	34.29		

Radiation-above 1GHz_2

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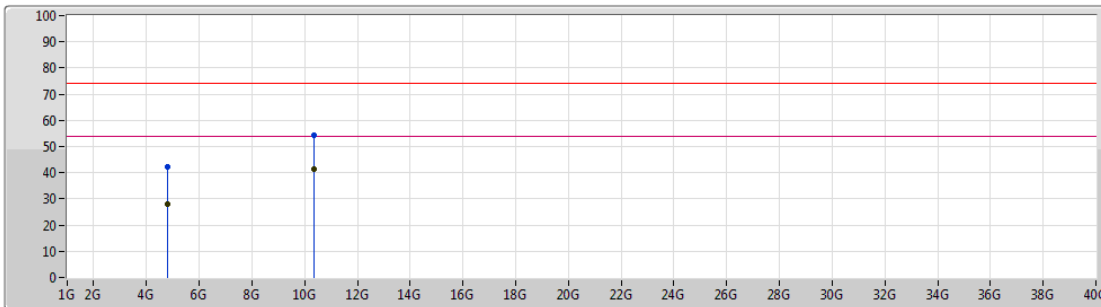
P1

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)		
AV	4.80478G	47.20	54.00	-6.80	2.08	3	Vertical	244	1.50	-	45.12	31.19	5.19	34.30		
AV	10.36882G	40.80	54.00	-13.20	12.66	3	Vertical	167	1.50	-	28.14	39.42	8.00	34.76		
PK	4.80478G	53.30	74.00	-20.70	2.08	3	Vertical	244	1.50	-	51.22	31.19	5.19	34.30		
PK	10.37046G	53.23	74.00	-20.77	12.66	3	Vertical	167	1.50	-	40.57	39.42	8.00	34.76		

Radiation-above 1GHz_2

08/08/2018

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Lim.PK 
 PK 
 Lim.AV 
 AV 

03CH01-HY
P2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)		
AV	4.80634G	27.85	54.00	-26.15	2.08	3	Horizontal	336	1.50	-	25.77	31.19	5.19	34.30		
AV	10.36876G	41.40	54.00	-12.60	12.66	3	Horizontal	161	1.97	-	28.74	39.42	8.00	34.76		
PK	4.80634G	42.27	74.00	-31.73	2.08	3	Horizontal	336	1.50	-	40.19	31.19	5.19	34.30		
PK	10.36432G	54.29	74.00	-19.71	12.64	3	Horizontal	161	1.97	-	41.65	39.41	8.00	34.77		