

FCC Test Report

FCC ID : PPQ-WCBN3509R
Equipment : 802.11a/b/g/n/ac 2Tx2R+BT5.0 USB WLAN Module
Brand Name : LITE-ON
Model Name : WCBN3509R, WCBN3509R(AU)
Applicant : Lite-On Technology Corp.
Bldg. C, 90, Chien 1 Road, Chung Ho, New Taipei City
23585, Taiwan, R.O.C
Manufacturer : LITE-ON TECHNOLOGY (Changzhou) CO., LTD
A9 Building, No.88 Yanghu Road, Wujin Hi-Tech
Industrial Development Zone, Changzhou City,
Standard : 47 CFR FCC Part 15.247

The product was received on Aug. 12, 2019, and testing was started from Aug. 18, 2019 and completed on Aug. 23, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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

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



Approved by: Allen Lin

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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

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History of this test report

[illegible]

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

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

Comments and explanations:

None

Reviewed by: Sam Tsai

Report Producer: Amber Chiu

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), ac (VHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ac (VHT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT40	40	2TX

Note:

- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Remark
1	HONGBO	290-10569	PIFA	I-Pex	2.4G+5G	Group 1
2	HONGBO	290-10569	PIFA	I-Pex	2.4G+5G	
3	HONGBO	290-10569	PIFA	I-Pex	BT	
4	PSA	RFMTA401030IML B702	PIFA	I-Pex	2.4G+5G	Group 2
5	PSA	RFMTA401030IML B702	PIFA	I-Pex	2.4G+5G	
6	PSA	RFMTA401030IML B702	PIFA	I-Pex	BT	
7	HONGBO	290-10843	PIFA	I-Pex	2.4G+5G	Group 3
8	HONGBO	290-10843	PIFA	I-Pex	2.4G+5G	
9	HONGBO	290-10843	PIFA	I-Pex	BT	
10	PSA	RFMTA401050IML B706	PIFA	I-Pex	2.4G+5G	Group 4
11	PSA	RFMTA401050IML B706	PIFA	I-Pex	2.4G+5G	
12	PSA	RFMTA401050IML B706	PIFA	I-Pex	BT	

Ant.	Brand	Model Name	Antenna Type	Connector	Support	Remark
13	HONGBO	290-10844	PIFA	I-Pex	2.4G+5G	Group 5
14	HONGBO	290-10844	PIFA	I-Pex	2.4G+5G	
15	HONGBO	290-10844	PIFA	I-Pex	BT	
16	PSA	RFMTA401080IML B704	PIFA	I-Pex	2.4G+5G	Group 6
17	PSA	RFMTA401080IML B704	PIFA	I-Pex	2.4G+5G	
18	PSA	RFMTA401080IML B704	PIFA	I-Pex	BT	
19	PSA	RFMTA340730IML B305	PIFA	I-Pex	2.4G+5G	Group 7
20	PSA	RFMTA340715IML B302	PIFA	I-Pex	2.4G+5G	
21	PSA	RFMTA340715IML B305	PIFA	I-Pex	BT	

Ant.	Port	Gain (dBi)			Remark
		2.4G	5G	BT	
1	1	3.74	3.8	-	Group 1
2	2	3.74	3.8	-	
3	3	-	-	3.74	
4	1	3.74	3.8	-	Group 2
5	2	3.74	3.8	-	
6	3	-	-	3.74	
7	1	3.05	1.59	-	Group 3
8	2	3.05	1.59	-	
9	3	-	-	3.05	
10	1	3.05	1.59	-	Group 4
11	2	3.05	1.59	-	
12	3	-	-	3.05	
13	1	2.38	1.49	-	Group 5
14	2	2.38	1.49	-	
15	3	-	-	2.38	
16	1	1.72	1.25	-	Group 6
17	2	1.72	1.25	-	
18	3	-	-	1.72	
19	1	-0.5	3.28	-	Group 7
20	2	-1.68	3.08	-	
21	3	-	-	-0.5	

Note 1: The EUT has twenty one antennas.

Note 2: EUT can match with above antennas for using. Group 1 was used to perform the worst configuration and result of that was recorded as the final test result.

For 2.4GHz function:

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

Ant. 1~2, 4~5, 7~8, 10~11, 13~14, 16~17, 19~20 could transmit/receive simultaneously.

For BT function:

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

Ant. 3, 6, 9, 12, 15, 18, 21 could transmit/receive simultaneously.

For 5GHz function:

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

Ant. 1~2, 4~5, 7~8, 10~11, 13~14, 16~17, 19~20 could transmit/receive simultaneously.

1.1.3 EUT Information

Operational Condition				
EUT Power Type	From Host System			
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) ≥ 1/T
802.11b	0.997	0.01	n/a (DC≥0.98)	n/a (DC≥0.98)
802.11g	0.977	0.1	1.394m	1k
VHT20	0.975	0.11	1.314m	1k
VHT40	0.952	0.21	654.687u	3k

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

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
WCBN3509R	All the models are identical, the difference are "chip model name" and "software".
WCBN3509R(AU)	

Note: The Model Name WCBN3509R(AU) configuration was pretested and found to be the worst case and measured during the test.

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 v05r02
- ♦ KDB 662911 D01 v02r01
- ♦ KDB 414788 D01 v01r01

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
RF Conducted	TH01-HY	Dexter Dai	25.4~25.8°C / 58~60%	22/Aug/2019
Radiated	03CH09-HY	Lego Lin	22.3~23.9°C / 51.1~55.6%	18/Aug/2019~ 22/Aug/2019
AC Conduction	CO04-HY	Edward Wang	23.1~25.4°C / 63.5~67.9%	23/Aug/2019

1.4 Measurement Uncertainty

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

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

2 Test Configuration of EUT

2.1 Test Condition

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

2.2 Test Channel Mode

Test Software Version	MT7668 QA_0.0.1.98
-----------------------	--------------------

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	1C
2437MHz	19
2462MHz	19
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	1F
2417MHz	23
2437MHz	24
2457MHz	23
2462MHz	1F
VHT20_Nss1,(MCS0)_2TX	-
2412MHz	1F
2417MHz	24
2437MHz	24
2457MHz	24
2462MHz	1D
VHT40_Nss1,(MCS0)_2TX	-
2422MHz	18
2427MHz	1D
2437MHz	22
2447MHz	1D
2452MHz	19

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	USB Mode

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

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	Bluetooth+WLAN 2.4GHz
2	Bluetooth+WLAN 5GHz

Refer to Sporton Test Report No.: FA980219 for Co-location RF Exposure Evaluation.

2.4 Support Equipment

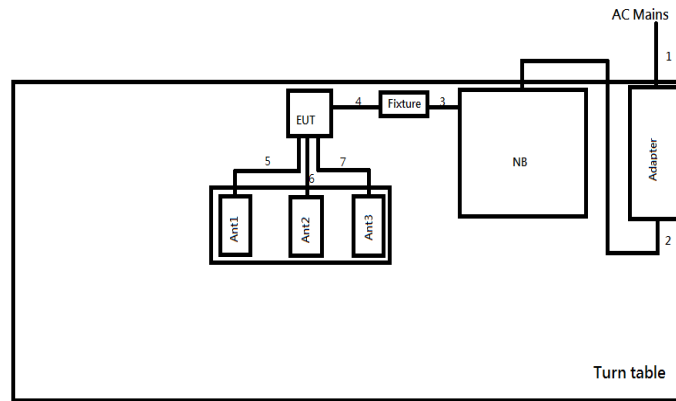
Support Equipment – AC Conduction				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Power Cable	Power sync	PW-GPC180-3	N/A
2	Notebook	Dell	E4300	N/A
3	Adapter	DELL	LA90PM111	N/A
4	Fixture	LITE-ON	TB001	N/A
5	Antenna	N/A	N/A	N/A

Support Equipment – RF Conducted				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Notebook	DELL	E5410	DoC
2	Adapter for NB	DELL	HA65NM130	DoC
3	AC Power Source	GW	APS-9102	N/A
4	Fixture	Lite-on	TB001	N/A

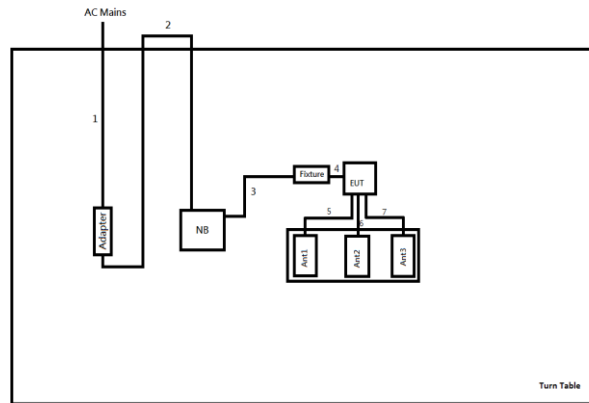
Support Equipment – Radiated Emission				
No.	Equipment	Brand Name	Model Name	FCC ID
1	Power Cable	Power sync	PW-GPC180-3	N/A
2	Notebook	Dell	E4300	N/A
3	Adapter	DELL	LA90PM111	N/A
4	Fixture	LITE-ON	TB001	N/A
5	Antenna	N/A	N/A	N/A

2.5 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	2.0	-
3	USB Cable	No	0.1	-
4	DATA Cable	No	0.05	-
5	RF Cable	No	0.3	-
6	RF Cable	No	0.3	-
7	RF Cable	No	0.3	-

Test Setup Diagram - Radiated Test


Item	Connection	Shielded	Length(m)	Remark
1	AC Power Cable	No	1.8	-
2	DC Power Cable	No	2.0	-
3	USB Cable	No	0.1	-
4	DATA Cable	No	0.05	-
5	RF Cable	No	0.3	-
6	RF Cable	No	0.3	-
7	RF Cable	No	0.3	-

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50
Note 1: * Decreases with the logarithm of the frequency.		

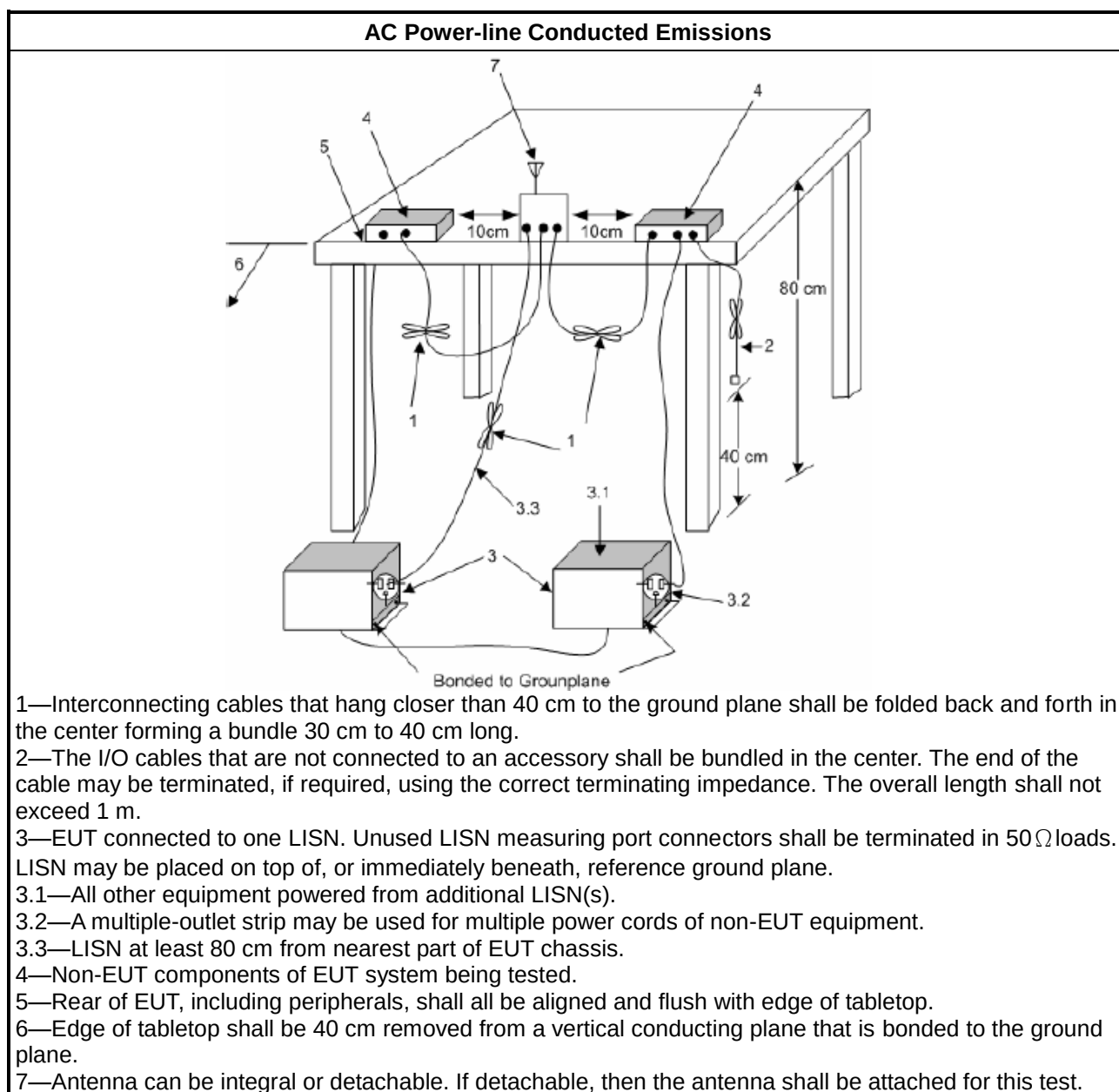
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit	
Systems using digital modulation techniques:	
▪	6 dB bandwidth $\geq$ 500 kHz.

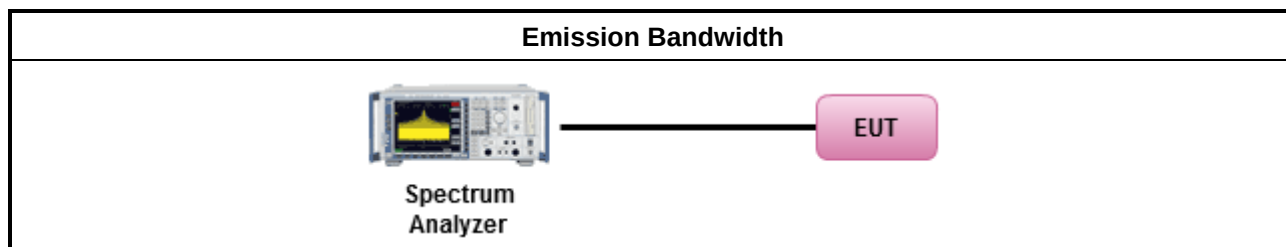
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

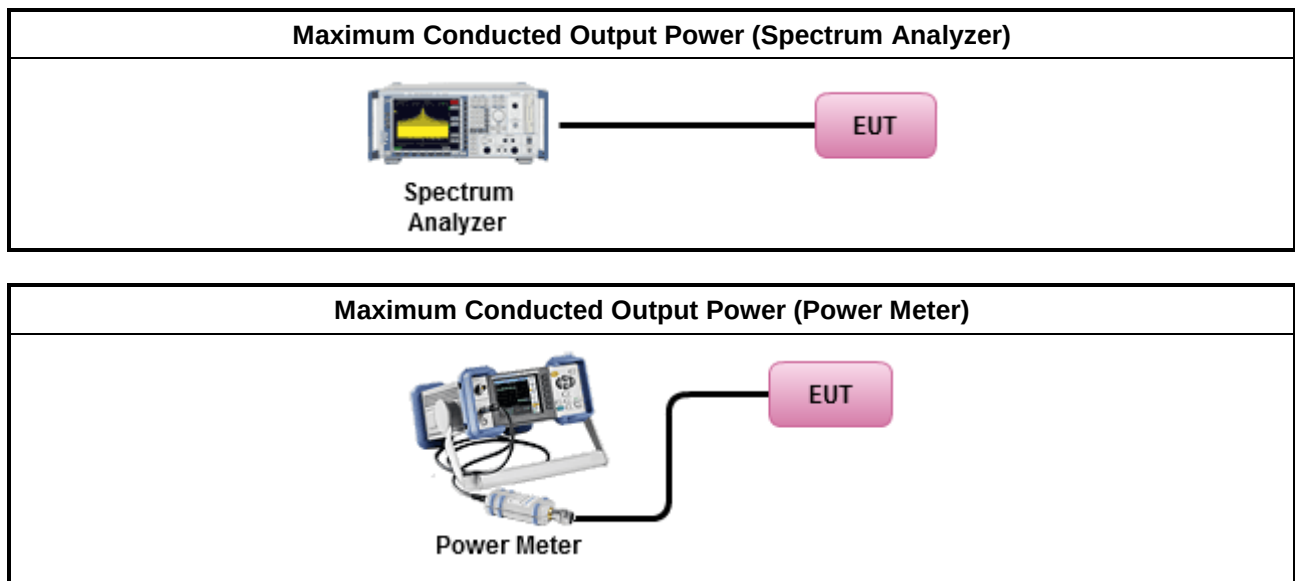
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.	
If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

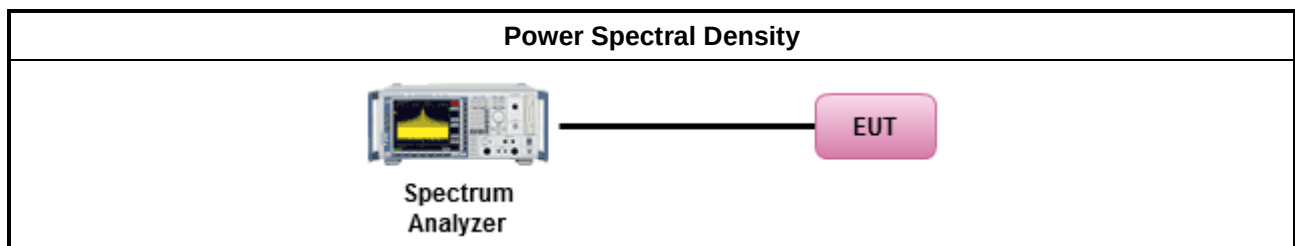
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Method PKPSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak 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 level.	

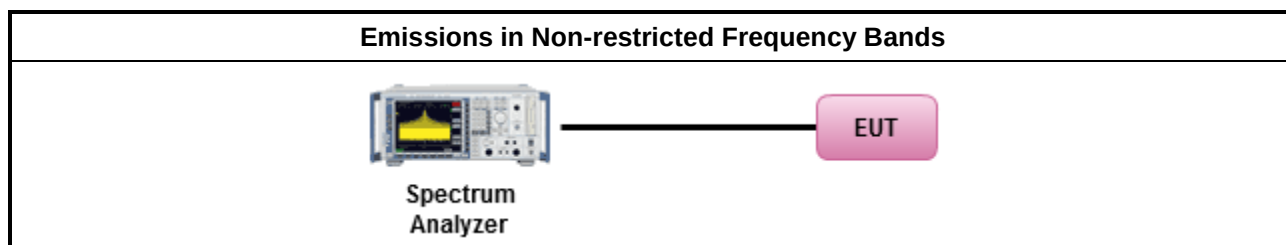
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

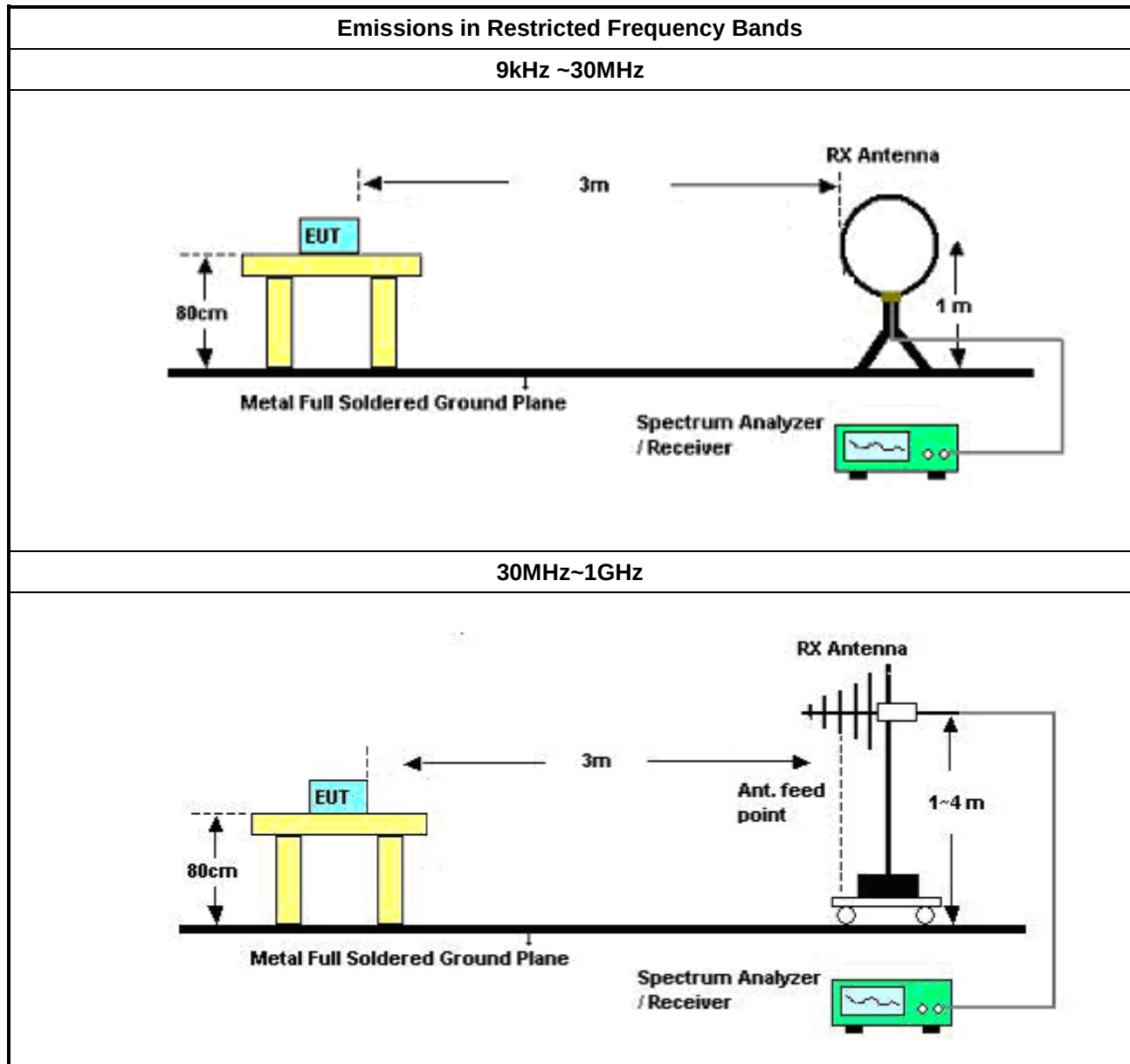
3.6.2 Measuring Instruments

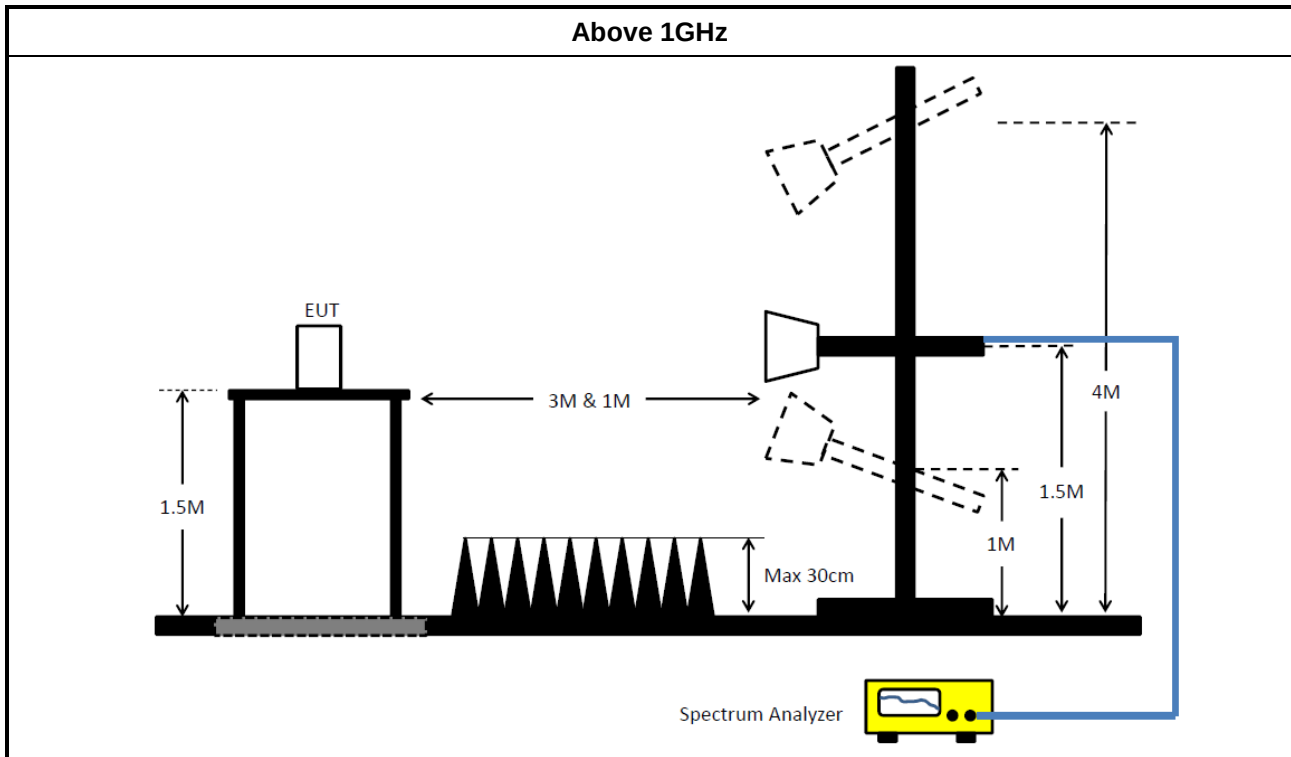
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

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	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
LISN	R&S	ENV216	101295	9kHz ~ 30MHz	08/Nov/2018	07/Nov/2019
RF Cable-CON	MTJ	RG142	CB002-CO	9kHz ~ 200MHz	17/Sep/2018	16/Sep/2019
AC POWER	APC	AFC-11005G	F310050055	47Hz~63Hz 5~300V	NCR	NCR
Impuls Begrenzer Puls e Limiter	SCHWARZBECK	VTSD 9561-F	9561-F041	9 kHz ~ 30 MHz	12/Oct/2018	11/Oct/2019

NCR : Non-Calibration Require.

Instrument for Radiated Test

Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz ~ 1GHz	22/Apr/2019	21/Apr/2020
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	1GHz ~ 18GHz	13/Jun/2019	12/Jun/2020
Microwave System Premplifier	KEYSIGHT	87422A	MY53270197	1GHz ~ 18GHz	30/Nov/2018	29/Nov/2019
Amplifier	EMC	EMC9135	980232	9KHz~1GHz	22/Apr/2019	21/Apr/2020
EMI Test Receiver	R&S	ESR3	102052	9kHz ~ 3.6GHz	09/Apr/2019	08/Apr/2020
Spectrum Analyzer	R&S	FSP30	100793	9 kHz ~ 30GHz	05/Jun/2019	04/Jun/2020
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D & MTJ6102-05	35418 / 3	30MHz~1GHz	02/Oct/2018	03/Oct/2019
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA9120 D 1534	1GHz~18GHz	22/May/2019	21/May/2020
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170614	18GHz~40GHz	22/May/2019	21/May/2020
Preamplifier	MITEQ	TTA1840-35-HG	1864481	18GHz ~ 40GHz	24/Aug/2018	23/Aug/2019
Loop Antenna	TESEQ	HLA 6120	31244	9k-30MHz	15/Mar/2019	14/Mar/2020
LF-CABLE-2019 0218	Jye Bao	RG142	CB028	9kHz ~ 1GHz	18/Feb/2019	17/Feb/2020
RF Cable-high	HUBER+SUHNER	SUCOFLEX104	SN 556626/4 + 556627	1GHz ~ 40GHz	13/Mar/2019	12/Mar/2020

**Instrument for Conducted Test**

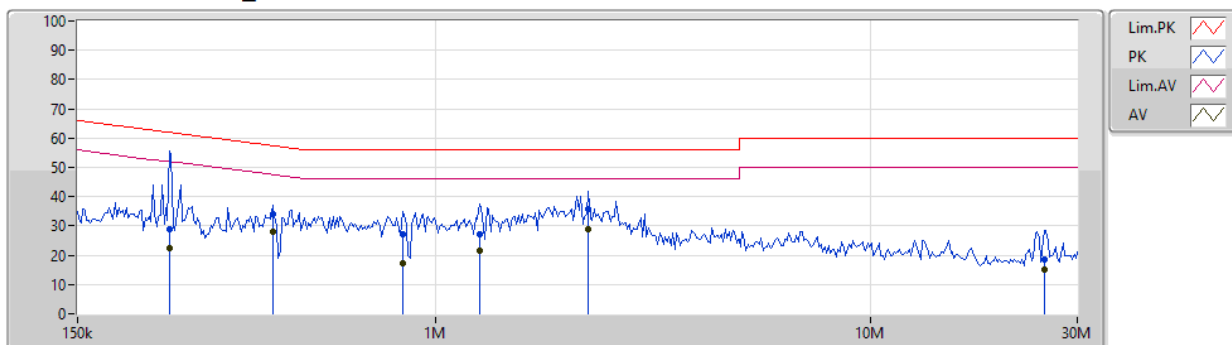
Instrument	Manufacturer	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Spectrum Analyzer	R&S	FSV 40	101013	10Hz~40GHz	13/Mar/2019	12/Mar/2020
Power Sensor	Anritsu	MA2411B	1339407	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Power Meter	Anritsu	ML2495A	1517010	300MHz ~ 40GHz	17/Nov/2018	16/Nov/2019
Cable 0.2m	HUBER	MY10710/4	RF Cable - 01	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.2m	HUBER	MY10711/4	RF Cable - 02	30MHz ~18G	10/Jan/2019	09/Jan/2020
Cable 0.5m	HUBER	MY39470/4	RF Cable - 29	30MHz ~18G	10/Jan/2019	09/Jan/2020
SMB100A Signal Generator	R&S	SMB100A03	181147	100kHz~40GHz	12/Nov/2018	10/Nov/2020

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Neutral
Operating Function	USB Mode		

AC Conduction_Mode 1

23/08/2019



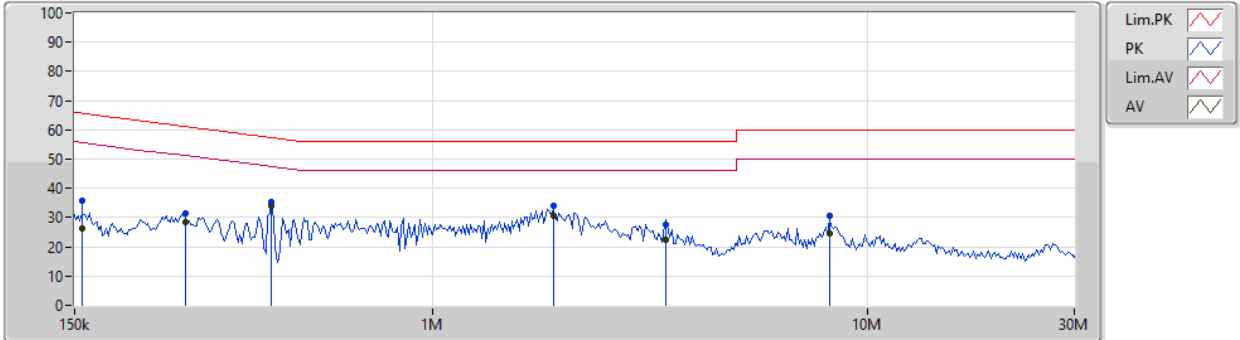
Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	244.252k	28.89	61.95	-33.06	19.47	Neutral	-	9.42	9.59	0.01	9.87			
AV	244.252k	22.48	51.95	-29.47	19.47	Neutral	-	3.01	9.59	0.01	9.87			
QP	422.196k	34.04	57.40	-23.36	19.48	Neutral	-	14.56	9.59	0.01	9.88			
AV	422.196k	28.18	47.40	-19.22	19.48	Neutral	-	8.70	9.59	0.01	9.88			
QP	838.859k	27.04	56.00	-28.96	19.49	Neutral	-	7.55	9.59	0.02	9.88			
AV	838.859k	17.43	46.00	-28.57	19.49	Neutral	-	-2.06	9.59	0.02	9.88			
QP	1.261M	27.03	56.00	-28.97	19.50	Neutral	-	7.53	9.60	0.02	9.88			
AV	1.261M	21.50	46.00	-24.50	19.50	Neutral	-	2.00	9.60	0.02	9.88			
QP	2.246M	35.75	56.00	-20.25	19.54	Neutral	-	16.21	9.61	0.04	9.89			
AV	2.246M	28.89	46.00	-17.11	19.54	Neutral	"Worst"	9.35	9.61	0.04	9.89			
QP	25.212M	18.48	60.00	-41.52	19.69	Neutral	-	-1.21	9.67	0.12	9.90			
AV	25.212M	15.26	50.00	-34.74	19.69	Neutral	-	-4.43	9.67	0.12	9.90			

AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	USB Mode		

AC Conduction_Mode 1

23/08/2019



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	156.091k	35.72	65.67	-29.95	19.48	Line	-	16.24	9.60	0.01	9.87			
AV	156.091k	26.30	55.67	-29.37	19.48	Line	-	6.82	9.60	0.01	9.87			
QP	269.806k	31.34	61.12	-29.78	19.48	Line	-	11.86	9.60	0.01	9.87			
AV	269.806k	28.26	51.12	-22.86	19.48	Line	-	8.78	9.60	0.01	9.87			
QP	426.418k	35.21	57.32	-22.11	19.48	Line	-	15.73	9.59	0.01	9.88			
AV	426.418k	33.84	47.32	-13.48	19.48	Line	"Worst"	14.36	9.59	0.01	9.88			
QP	1.897M	33.90	56.00	-22.10	19.54	Line	-	14.36	9.62	0.03	9.89			
AV	1.897M	30.54	46.00	-15.46	19.54	Line	-	11.00	9.62	0.03	9.89			
QP	3.446M	27.62	56.00	-28.38	19.56	Line	-	8.06	9.63	0.04	9.89			
AV	3.446M	22.34	46.00	-23.66	19.56	Line	-	2.78	9.63	0.04	9.89			
QP	8.19M	30.49	60.00	-29.51	19.61	Line	-	10.88	9.66	0.06	9.89			
AV	8.19M	24.65	50.00	-25.35	19.61	Line	-	5.04	9.66	0.06	9.89			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	9.1M	14.068M	14M1G1D	8.55M	13.593M
802.11g_Nss1,(6Mbps)_2TX	15.1M	16.792M	16M8D1D	14.05M	16.367M
VHT20_Nss1,(MCS0)_2TX	15.7M	17.716M	17M7D1D	14.15M	17.516M
VHT40_Nss1,(MCS0)_2TX	35.1M	36.132M	36M1D1D	35M	35.932M

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;

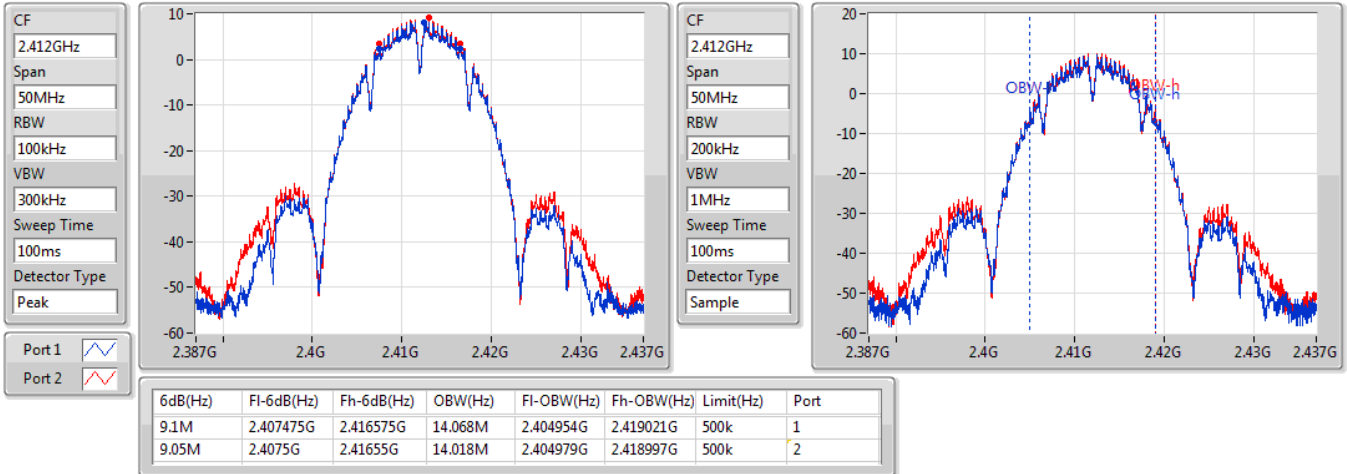
Result

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,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	9.1M	14.068M	9.05M	14.018M
2437MHz_TnomVnom	Pass	500k	8.55M	13.718M	9.05M	13.593M
2462MHz_TnomVnom	Pass	500k	9.025M	13.693M	9.075M	13.818M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.05M	16.417M	14.95M	16.367M
2437MHz_TnomVnom	Pass	500k	14.05M	16.792M	15.1M	16.742M
2462MHz_TnomVnom	Pass	500k	15.025M	16.467M	15M	16.417M
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	500k	15.1M	17.541M	15.65M	17.516M
2437MHz_TnomVnom	Pass	500k	15.1M	17.716M	15.65M	17.666M
2462MHz_TnomVnom	Pass	500k	14.15M	17.541M	15.7M	17.516M
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	500k	35M	35.932M	35M	35.982M
2437MHz_TnomVnom	Pass	500k	35.05M	36.082M	35.1M	36.132M
2452MHz_TnomVnom	Pass	500k	35.05M	36.032M	35.1M	35.982M

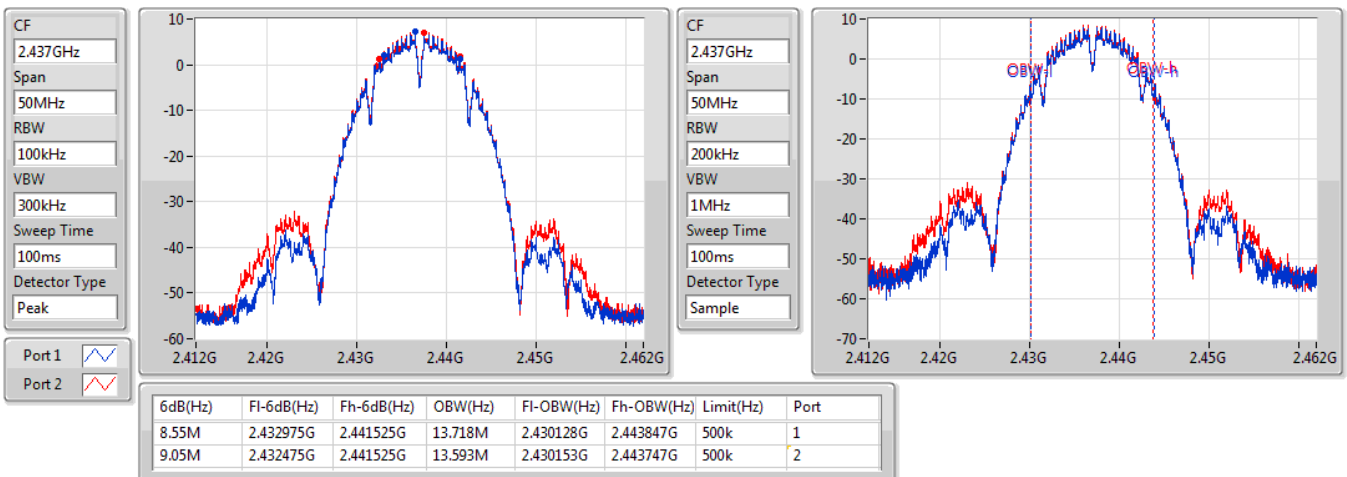
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

22/08/2019

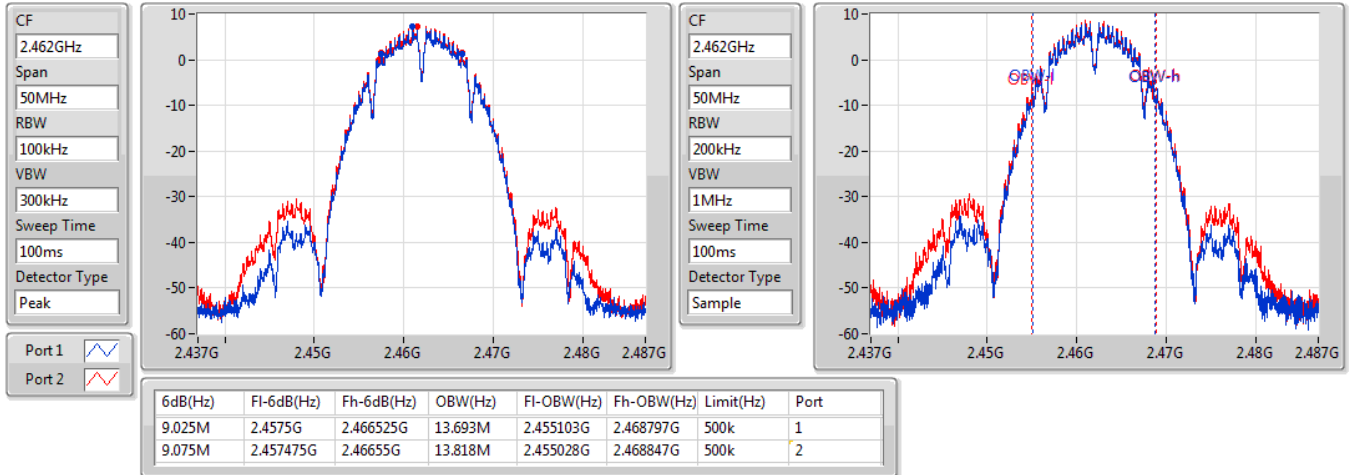

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

22/08/2019

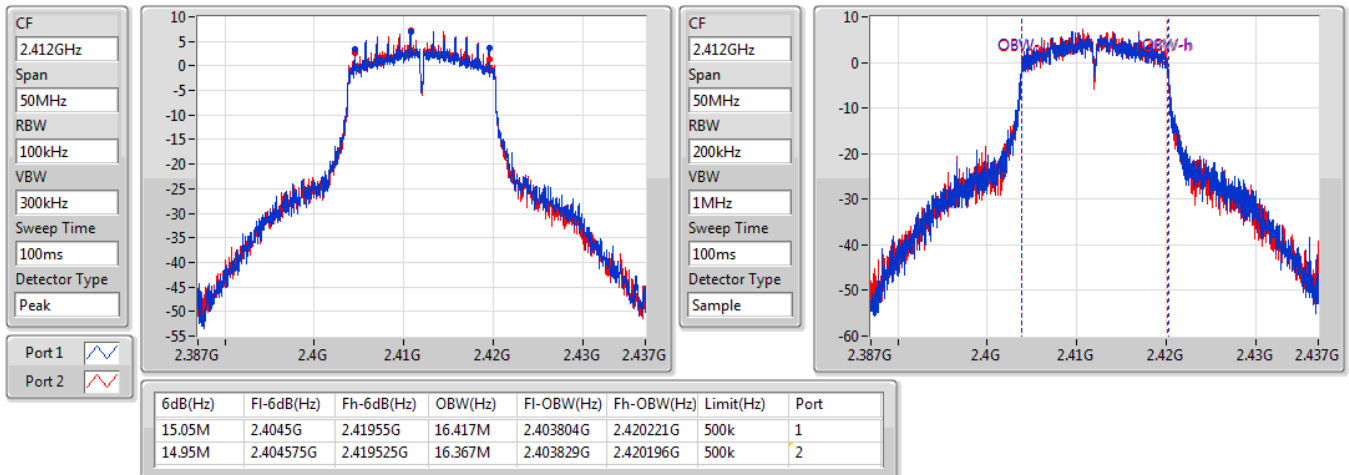


802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

22/08/2019

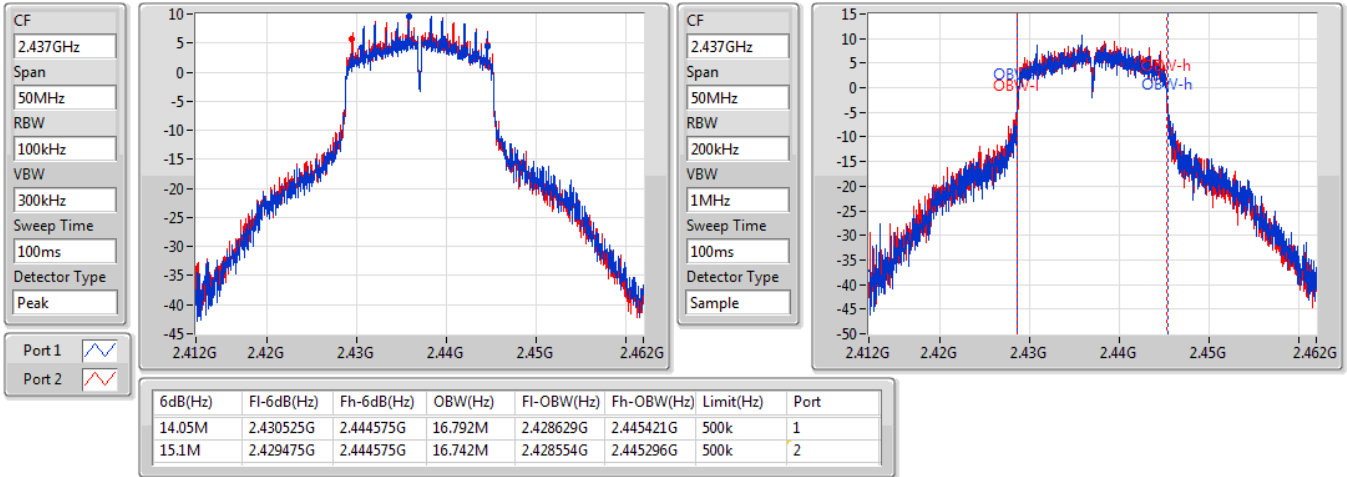

802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

22/08/2019



802.11g_Nss1,(6Mbps)_2TX
2437MHz

22/08/2019

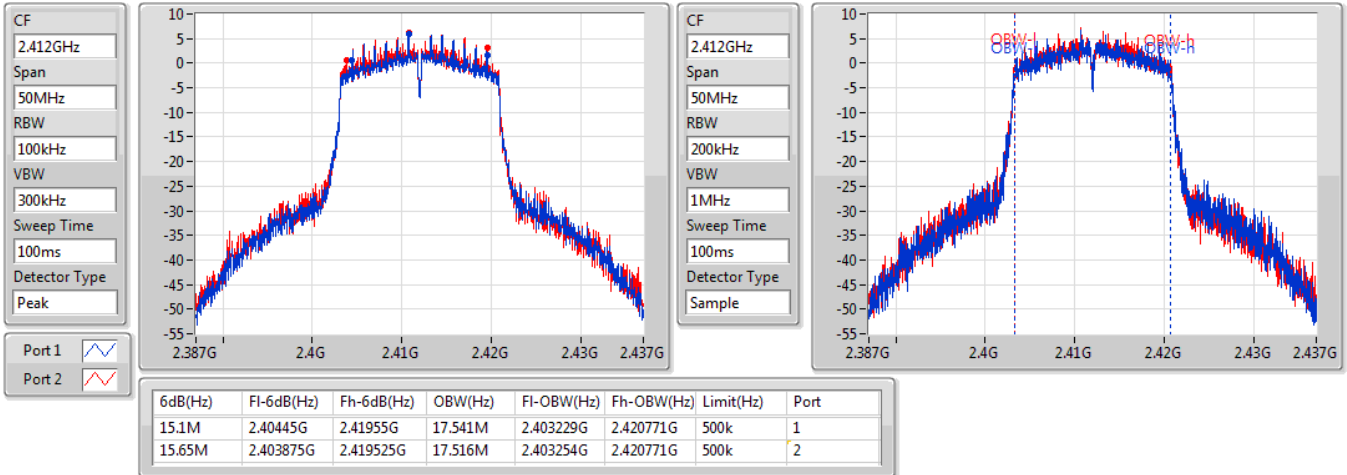

802.11g_Nss1,(6Mbps)_2TX
2462MHz

22/08/2019

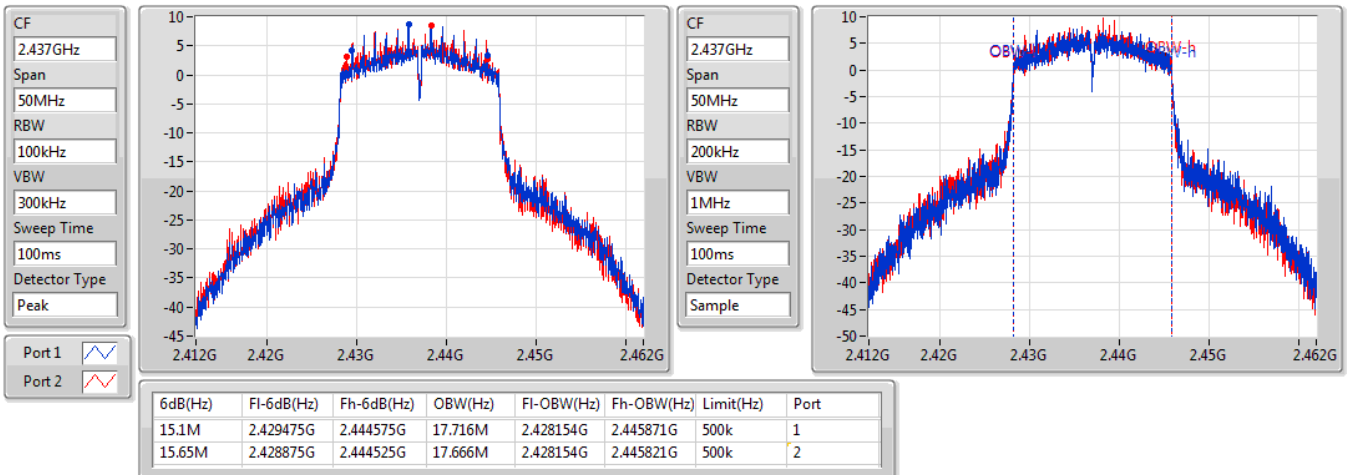


VHT20_Nss1,(MCS0)_2TX
EBW
2412MHz

22/08/2019

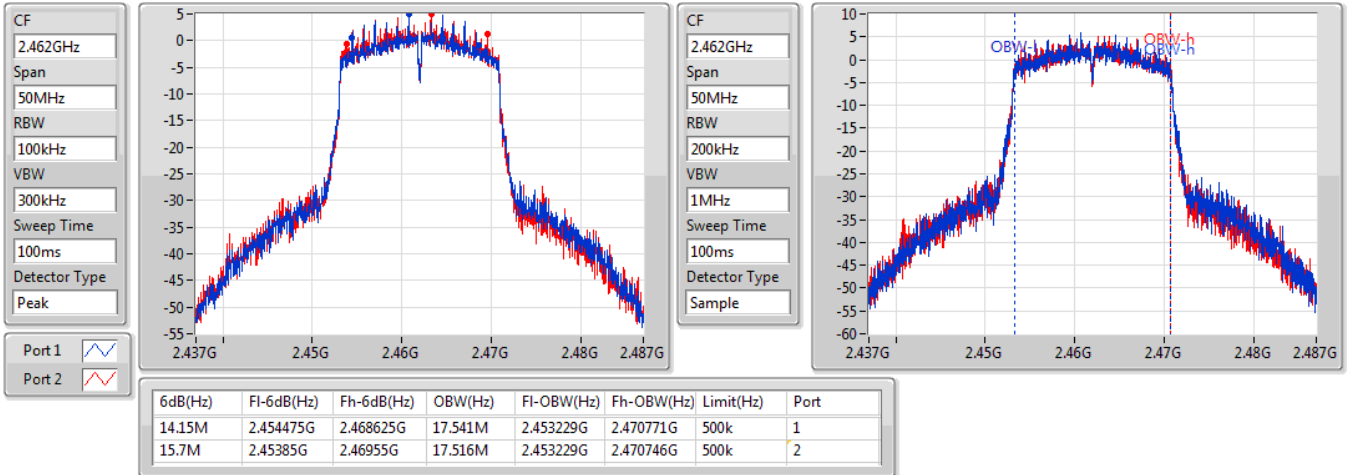

VHT20_Nss1,(MCS0)_2TX
EBW
2437MHz

22/08/2019

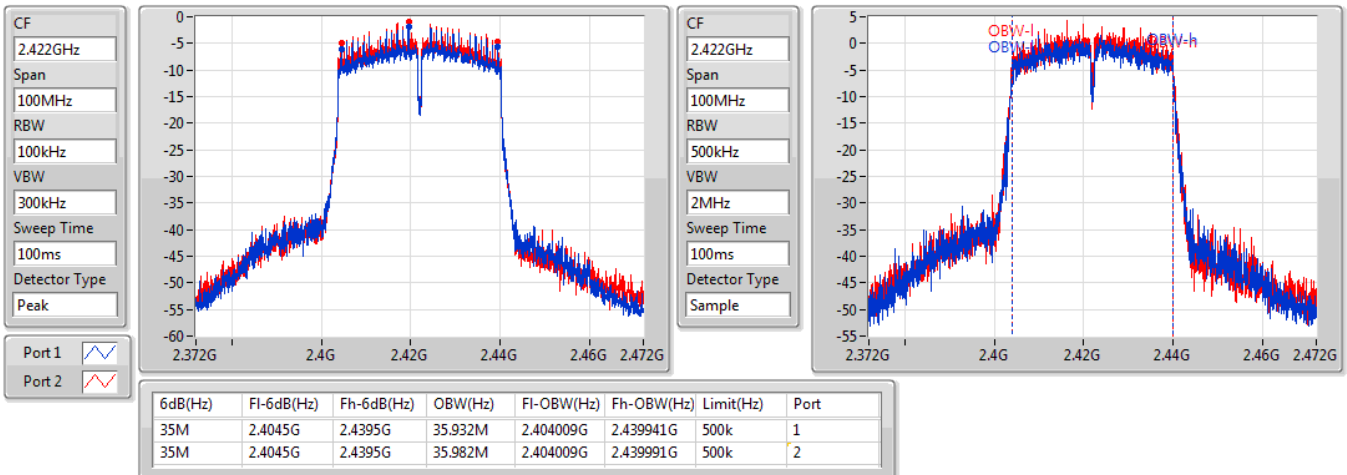


VHT20_Nss1,(MCS0)_2TX
EBW
2462MHz

22/08/2019

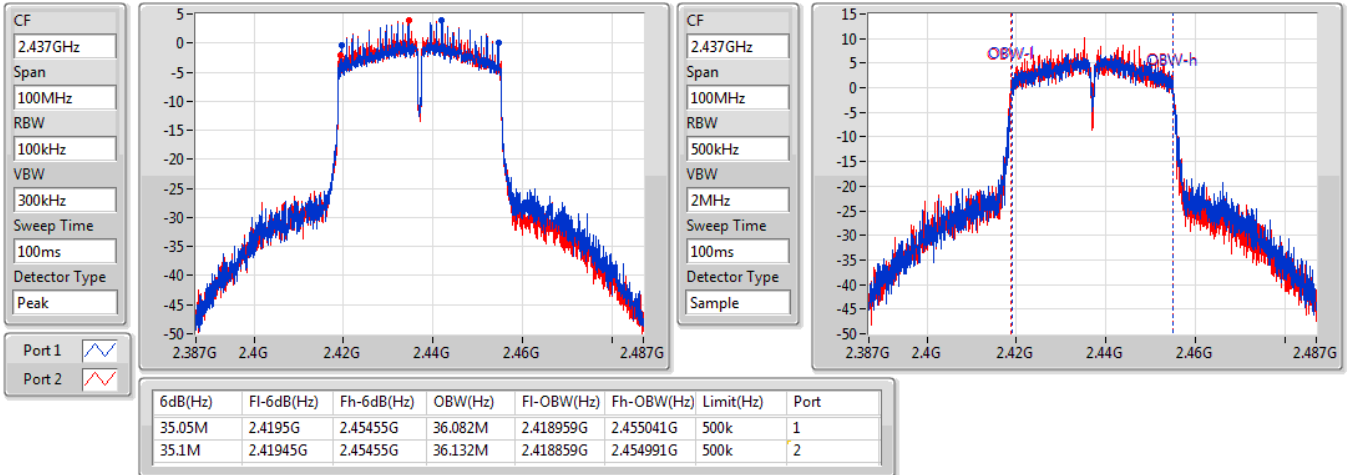

VHT40_Nss1,(MCS0)_2TX
EBW
2422MHz

22/08/2019

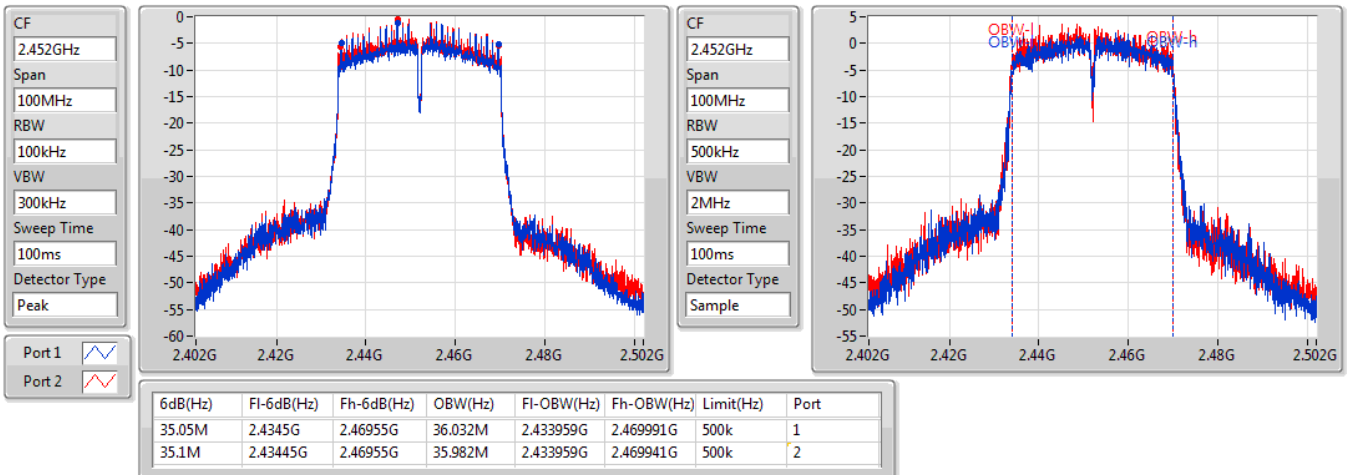


VHT40_Nss1,(MCS0)_2TX
EBW
2437MHz

22/08/2019


VHT40_Nss1,(MCS0)_2TX
EBW
2452MHz

22/08/2019





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	21.18	0.13122
802.11g_Nss1,(6Mbps)_2TX	22.99	0.19907
VHT20_Nss1,(MCS0)_2TX	22.05	0.16032
VHT40_Nss1,(MCS0)_2TX	20.22	0.10520

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	3.74	17.99	18.35	21.18	30.00
2437MHz_TnomVnom	Pass	3.74	16.30	16.81	19.57	30.00
2462MHz_TnomVnom	Pass	3.74	16.63	16.96	19.81	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.74	17.28	17.80	20.56	30.00
2417MHz_TnomVnom	Pass	3.74	19.35	19.64	22.51	30.00
2437MHz_TnomVnom	Pass	3.74	19.73	20.21	22.99	30.00
2457MHz_TnomVnom	Pass	3.74	19.55	19.57	22.57	30.00
2462MHz_TnomVnom	Pass	3.74	17.66	17.83	20.76	30.00
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	3.74	16.29	16.86	19.59	30.00
2417MHz_TnomVnom	Pass	3.74	18.75	19.22	22.00	30.00
2437MHz_TnomVnom	Pass	3.74	18.79	19.28	22.05	30.00
2457MHz_TnomVnom	Pass	3.74	18.79	18.78	21.80	30.00
2462MHz_TnomVnom	Pass	3.74	15.30	15.67	18.50	30.00
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	3.74	11.82	12.38	15.12	30.00
2427MHz_TnomVnom	Pass	3.74	14.24	14.55	17.41	30.00
2437MHz_TnomVnom	Pass	3.74	17.13	17.28	20.22	30.00
2447MHz_TnomVnom	Pass	3.74	14.42	14.64	17.54	30.00
2452MHz_TnomVnom	Pass	3.74	12.39	12.84	15.63	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	-5.40
802.11g_Nss1,(6Mbps)_2TX	-5.31
VHT20_Nss1,(MCS0)_2TX	-6.18
VHT40_Nss1,(MCS0)_2TX	-10.49

RBW=3 kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	6.75	-8.72	-6.98	-6.13	7.25
2437MHz_TnomVnom	Pass	6.75	-8.19	-8.30	-5.40	7.25
2462MHz_TnomVnom	Pass	6.75	-10.59	-9.63	-8.72	7.25
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	6.75	-9.84	-8.58	-7.59	7.25
2437MHz_TnomVnom	Pass	6.75	-6.49	-6.23	-5.31	7.25
2462MHz_TnomVnom	Pass	6.75	-8.23	-9.56	-7.23	7.25
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	6.75	-8.85	-10.18	-7.97	7.25
2437MHz_TnomVnom	Pass	6.75	-7.77	-7.53	-6.18	7.25
2462MHz_TnomVnom	Pass	6.75	-11.35	-10.53	-9.28	7.25
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	6.75	-17.28	-17.01	-15.52	7.25
2437MHz_TnomVnom	Pass	6.75	-13.46	-12.35	-10.49	7.25
2452MHz_TnomVnom	Pass	6.75	-15.49	-17.42	-15.10	7.25

DG = Directional Gain; RBW=3 kHz;

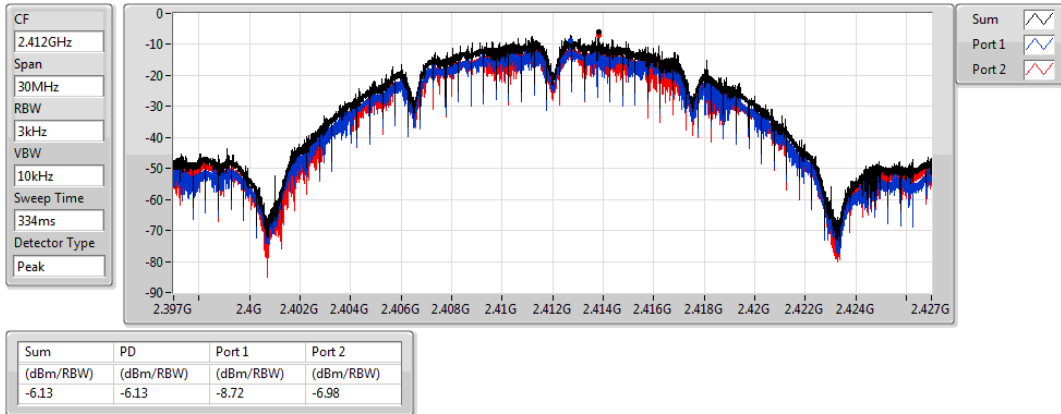
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

22/08/2019

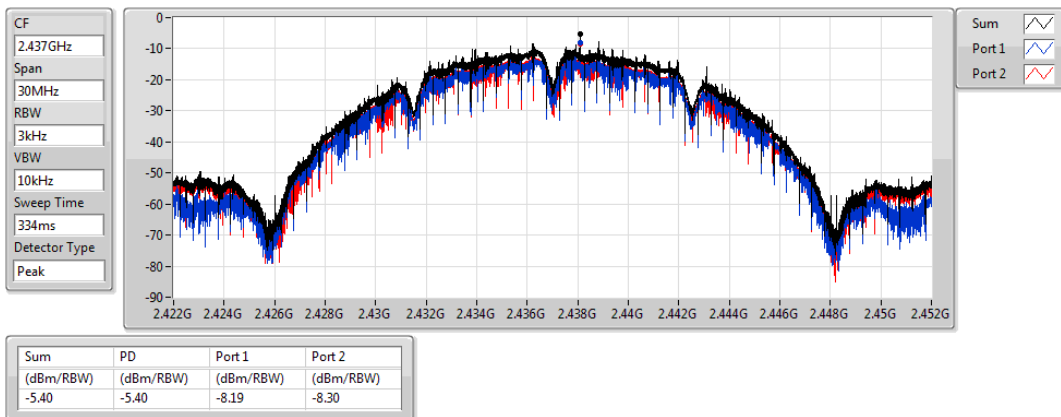


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

22/08/2019

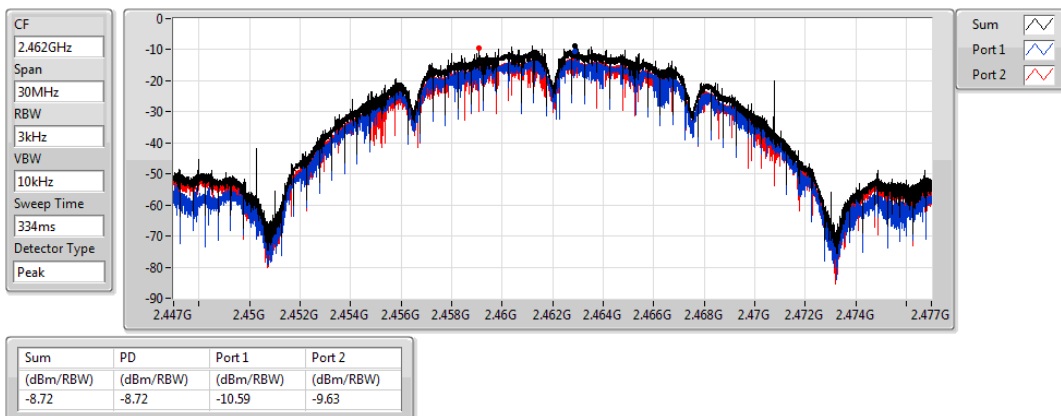


802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

22/08/2019

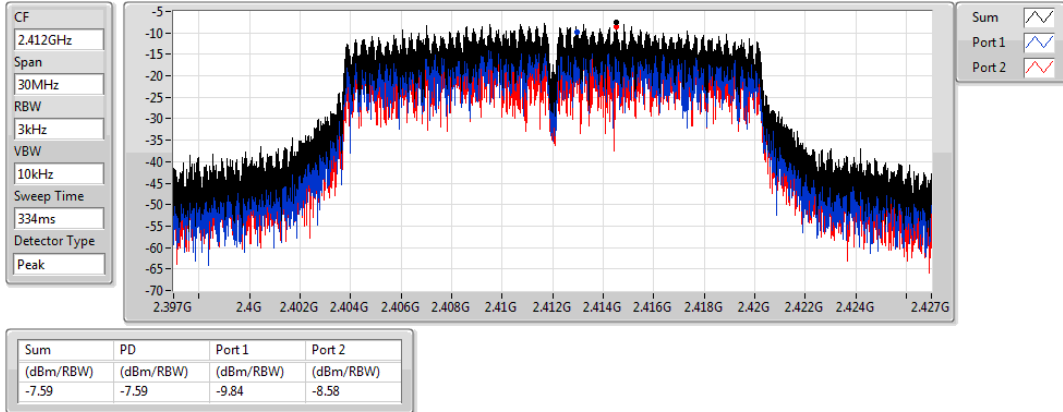


802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

22/08/2019

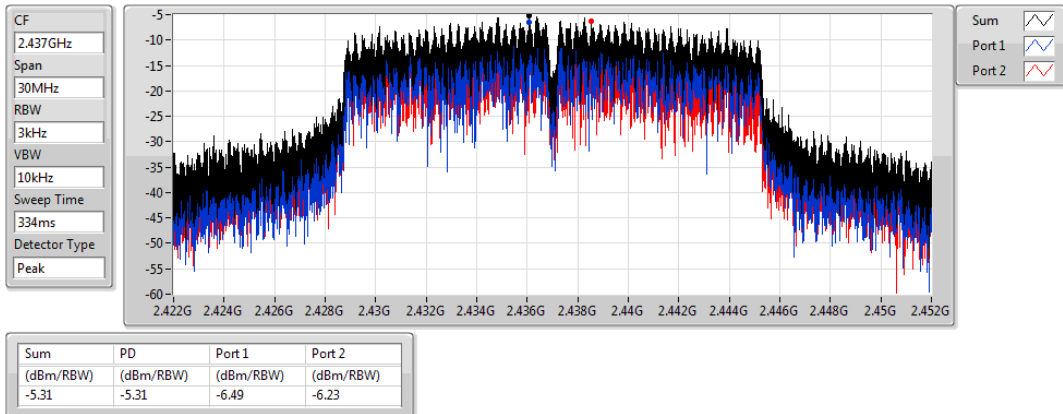


802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

22/08/2019

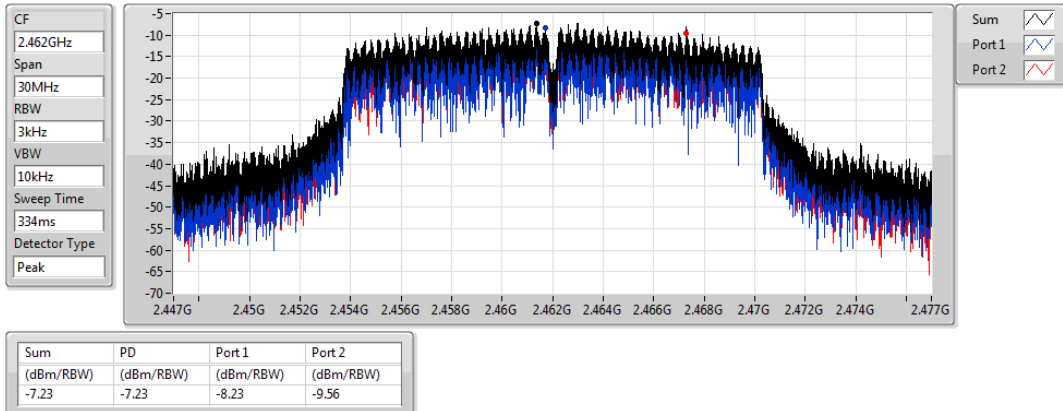


802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

22/08/2019

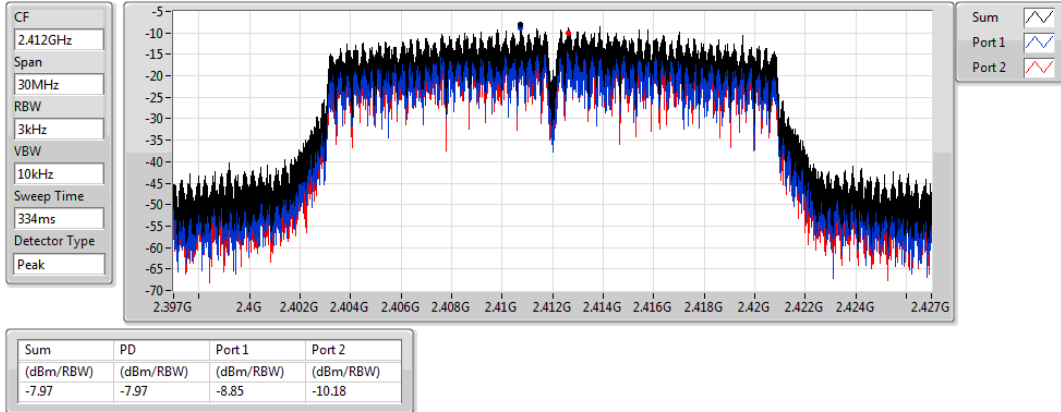


VHT20_Nss1,(MCS0)_2TX

PSD

2412MHz

22/08/2019

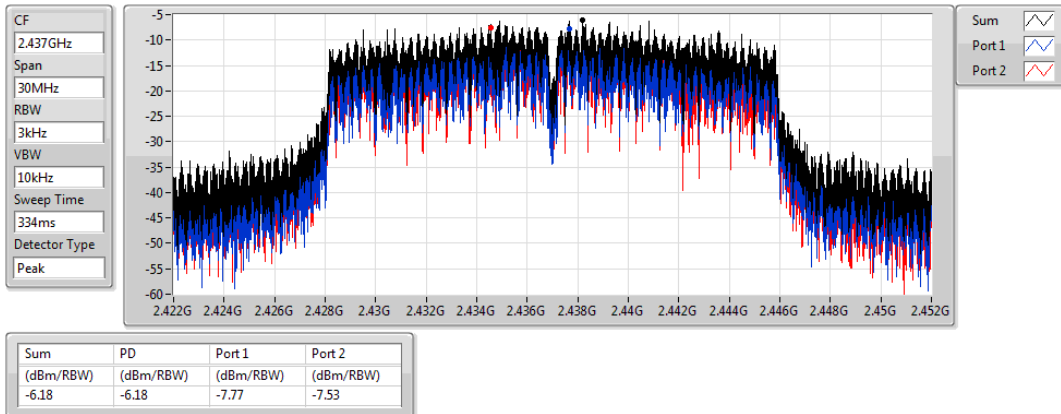


VHT20_Nss1,(MCS0)_2TX

PSD

2437MHz

22/08/2019

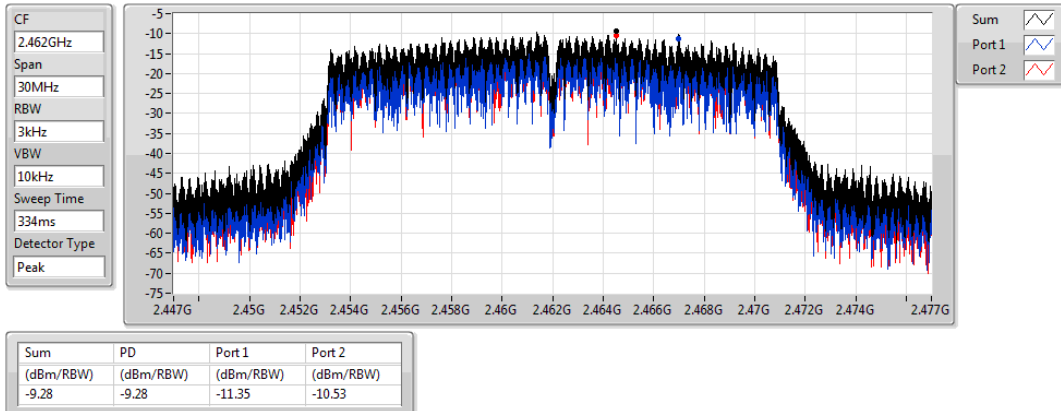


VHT20_Nss1,(MCS0)_2TX

PSD

2462MHz

22/08/2019

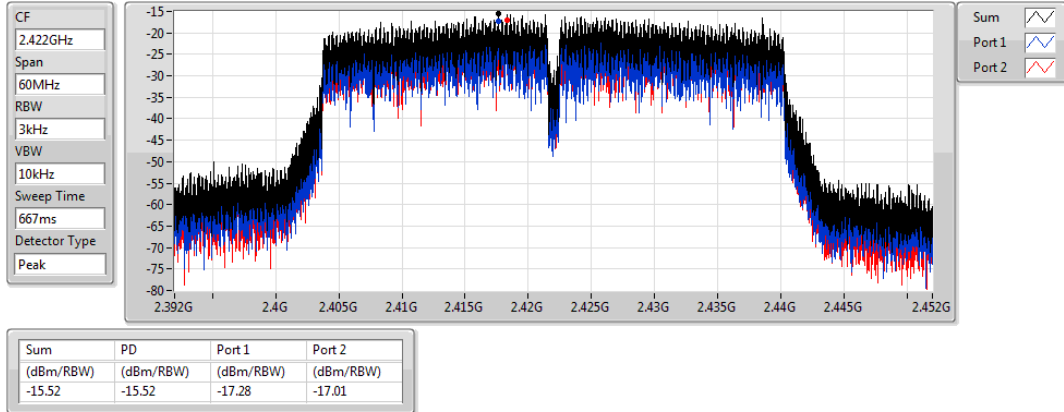


VHT40_Nss1,(MCS0)_2TX

PSD

2422MHz

22/08/2019

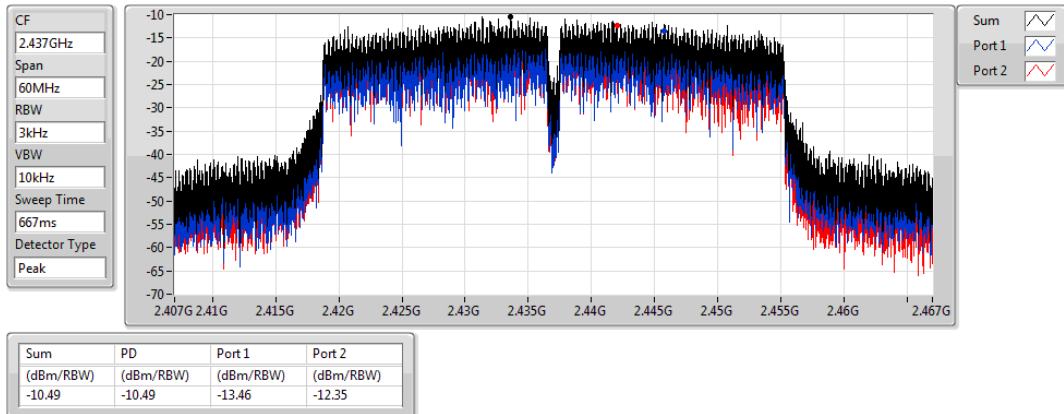


VHT40_Nss1,(MCS0)_2TX

PSD

2437MHz

22/08/2019

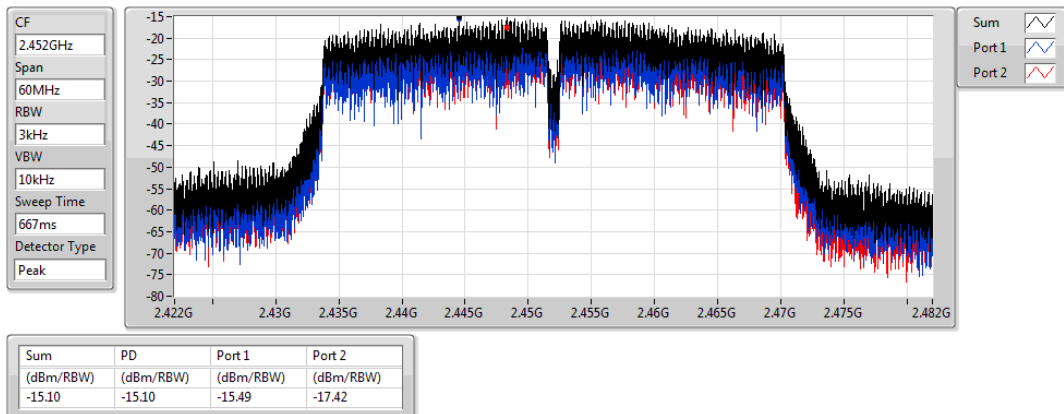


VHT40_Nss1,(MCS0)_2TX

PSD

2452MHz

22/08/2019





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	2.41248G	8.55	-21.45	1.76061G	-54.62	2.39802G	-28.12	2.50192G	-52.19	24.25547G	-41.22	2
802.11g_Nss1,(6Mbps)_2TX	Pass	2.43578G	9.74	-20.26	2.14681G	-54.55	2.3994G	-22.45	2.4892G	-52.06	24.28918G	-41.71	2
VHT20_Nss1,(MCS0)_2TX	Pass	2.43578G	8.71	-21.29	2.19457G	-54.32	2.3998G	-25.44	2.48712G	-52.56	15.32949G	-41.90	2
VHT40_Nss1,(MCS0)_2TX	Pass	2.43202G	4.25	-25.75	2.3034G	-54.43	2.39956G	-30.65	2.48386G	-41.04	24.38861G	-41.15	2

Result

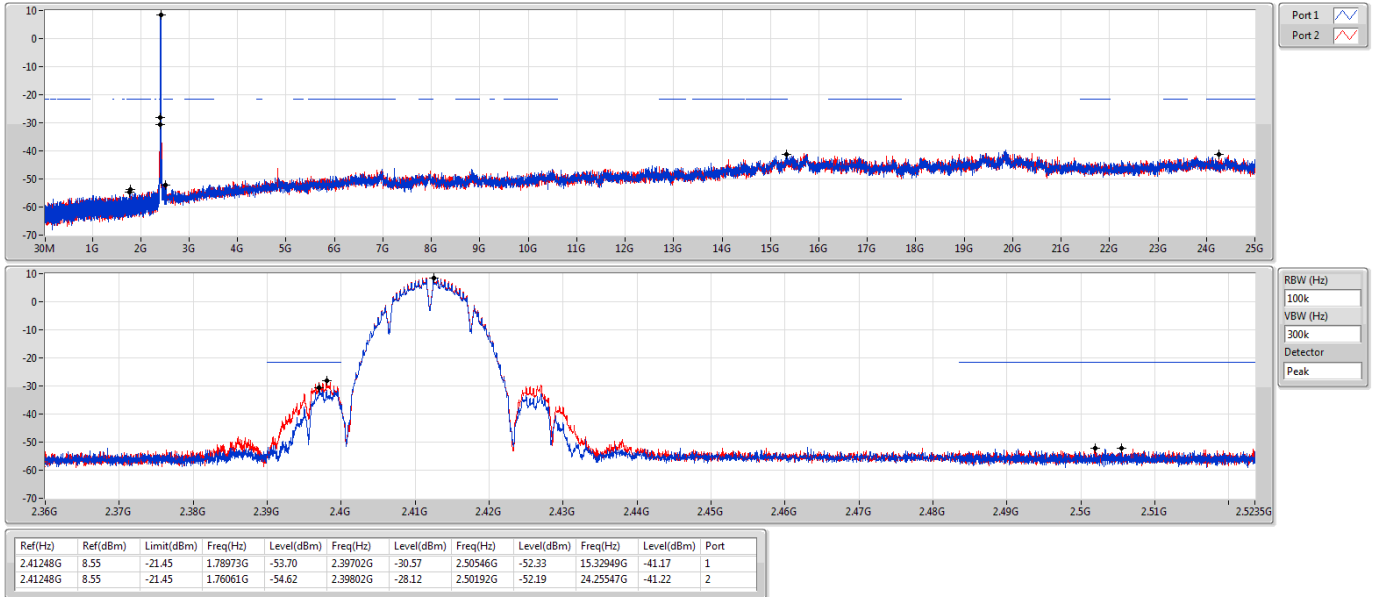
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.41248G	8.55	-21.45	1.78973G	-53.70	2.39702G	-30.57	2.50546G	-52.33	15.32949G	-41.17	1
2412MHz_TnomVnom	Pass	2.41248G	8.55	-21.45	1.76061G	-54.62	2.39802G	-28.12	2.50192G	-52.19	24.25547G	-41.22	2
2437MHz_TnomVnom	Pass	2.41248G	8.55	-21.45	2.05535G	-54.15	2.39502G	-53.66	2.49004G	-52.41	24.26951G	-40.74	1
2437MHz_TnomVnom	Pass	2.41248G	8.55	-21.45	2.13166G	-54.80	2.39302G	-52.91	2.49464G	-52.48	15.34915G	-41.87	2
2462MHz_TnomVnom	Pass	2.41248G	8.55	-21.45	2.30437G	-54.15	2.39062G	-53.56	2.49168G	-52.51	15.3042G	-40.81	1
2462MHz_TnomVnom	Pass	2.41248G	8.55	-21.45	2.16923G	-55.05	2.39778G	-53.57	2.48778G	-51.37	15.13001G	-41.67	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43578G	9.74	-20.26	2.09263G	-54.75	2.39998G	-23.69	2.48898G	-52.58	15.30701G	-40.54	1
2412MHz_TnomVnom	Pass	2.43578G	9.74	-20.26	2.14681G	-54.55	2.3994G	-22.45	2.4892G	-52.06	24.28918G	-41.71	2
2437MHz_TnomVnom	Pass	2.43578G	9.74	-20.26	1.9106G	-53.64	2.39818G	-49.64	2.5219G	-51.16	24.0897G	-41.41	1
2437MHz_TnomVnom	Pass	2.43578G	9.74	-20.26	2.13428G	-54.41	2.39728G	-46.47	2.48518G	-50.41	24.40718G	-41.20	2
2462MHz_TnomVnom	Pass	2.43578G	9.74	-20.26	2.16079G	-54.59	2.39536G	-52.94	2.48392G	-38.91	24.08689G	-41.28	1
2462MHz_TnomVnom	Pass	2.43578G	9.74	-20.26	2.30146G	-54.43	2.39136G	-52.87	2.48352G	-38.03	15.31544G	-41.36	2
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TnomVnom	Pass	2.43578G	8.71	-21.29	2.3G	-54.16	2.39988G	-26.44	2.48608G	-52.50	15.09629G	-41.65	1
2412MHz_TnomVnom	Pass	2.43578G	8.71	-21.29	2.19457G	-54.32	2.3998G	-25.44	2.48712G	-52.56	15.32949G	-41.90	2
2437MHz_TnomVnom	Pass	2.43578G	8.71	-21.29	1.99332G	-54.99	2.39958G	-50.51	2.48388G	-52.27	15.31825G	-41.39	1
2437MHz_TnomVnom	Pass	2.43578G	8.71	-21.29	1.94118G	-53.89	2.3995G	-47.26	2.4963G	-51.62	15.13001G	-41.23	2
2462MHz_TnomVnom	Pass	2.43578G	8.71	-21.29	2.11622G	-54.86	2.39326G	-52.38	2.48352G	-41.45	16.65279G	-41.14	1
2462MHz_TnomVnom	Pass	2.43578G	8.71	-21.29	2.17098G	-55.09	2.39468G	-53.34	2.48478G	-41.38	15.34915G	-41.43	2
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TnomVnom	Pass	2.43202G	4.25	-25.75	823.77M	-54.57	2.39888G	-37.05	2.50954G	-52.21	15.06344G	-40.87	1
2422MHz_TnomVnom	Pass	2.43202G	4.25	-25.75	2.30168G	-53.83	2.39996G	-37.01	2.5371G	-52.38	24.07169G	-41.59	2
2437MHz_TnomVnom	Pass	2.43202G	4.25	-25.75	2.16142G	-54.41	2.39952G	-30.76	2.48354G	-40.81	16.81629G	-41.22	1
2437MHz_TnomVnom	Pass	2.43202G	4.25	-25.75	2.3034G	-54.43	2.39956G	-30.65	2.48386G	-41.04	24.38861G	-41.15	2
2452MHz_TnomVnom	Pass	2.43202G	4.25	-25.75	2.18718G	-54.75	2.39356G	-53.00	2.48398G	-39.51	23.14618G	-41.85	1
2452MHz_TnomVnom	Pass	2.43202G	4.25	-25.75	2.05636G	-53.57	2.39676G	-48.74	2.48394G	-38.77	15.08307G	-41.55	2

802.11b_Nss1,(1Mbps)_2TX

2412MHz

CSE NdB

22/08/2019

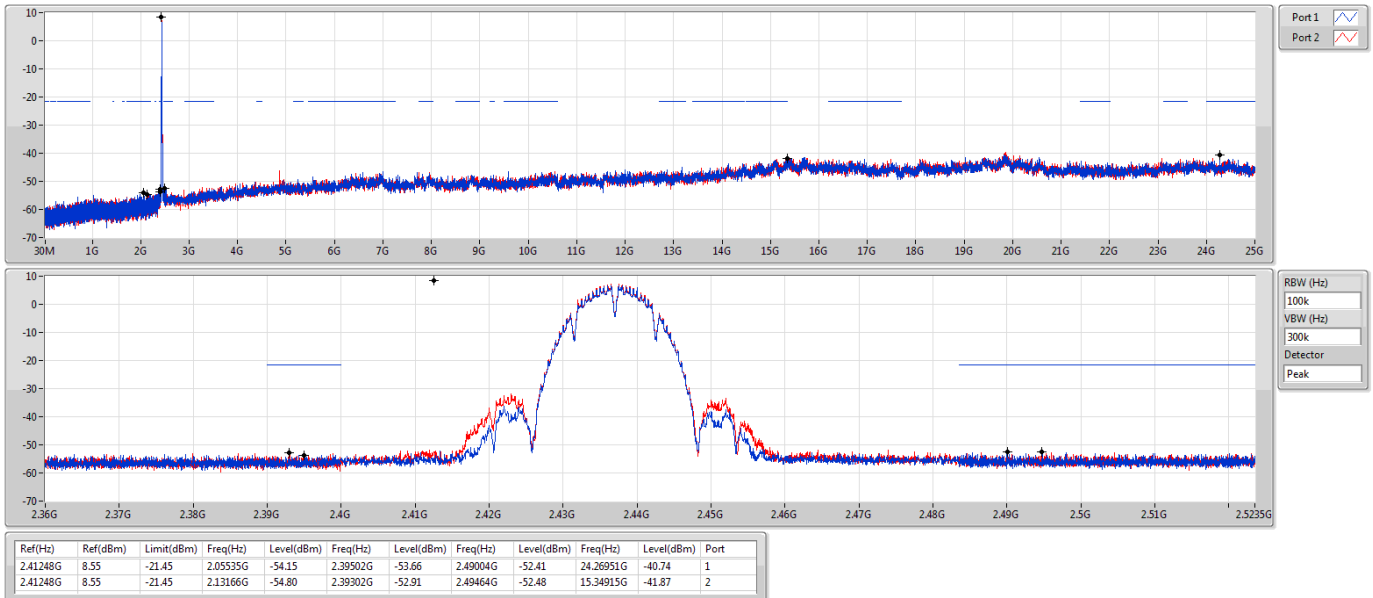


802.11b_Nss1,(1Mbps)_2TX

2437MHz

CSE NdB

22/08/2019

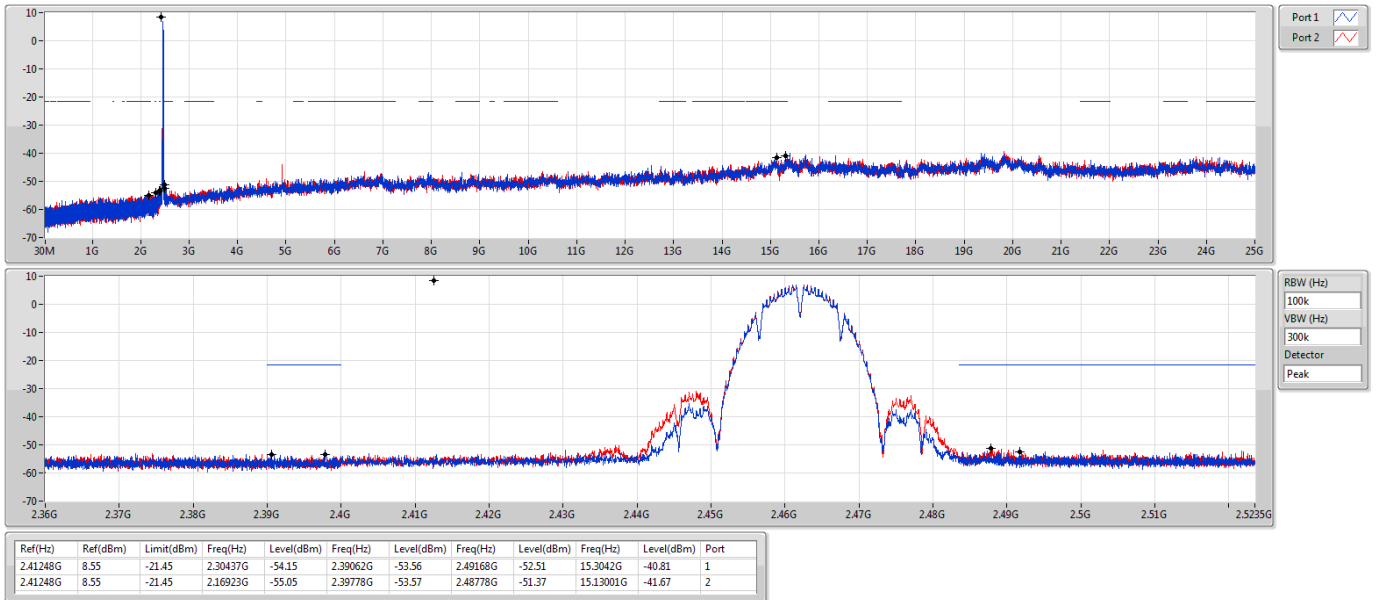


802.11b_Nss1,(1Mbps)_2TX

2462MHz

CSE NdB

22/08/2019

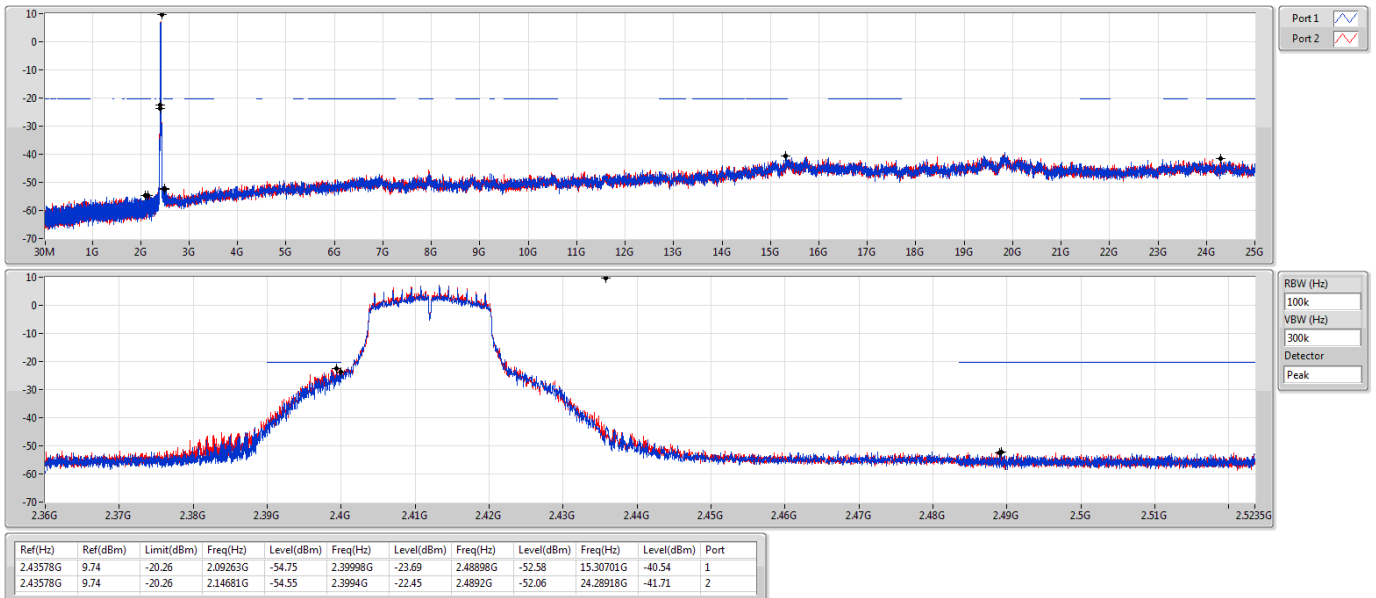


802.11g_Nss1,(6Mbps)_2TX

2412MHz

CSE NdB

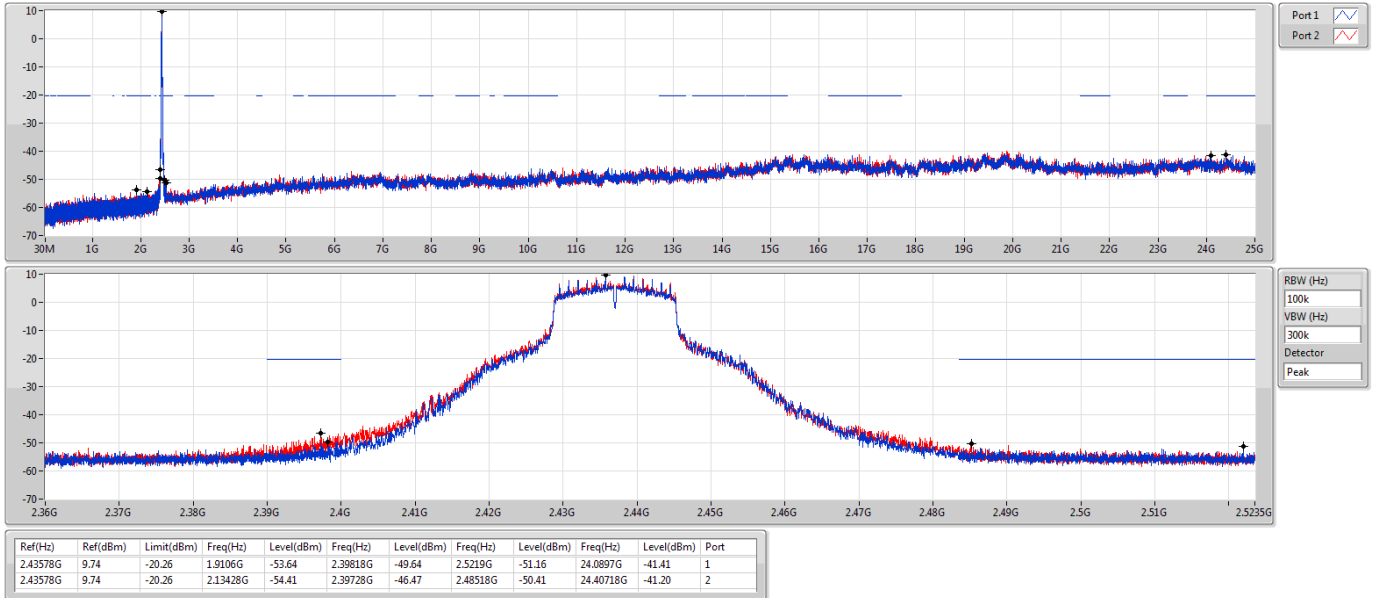
22/08/2019



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

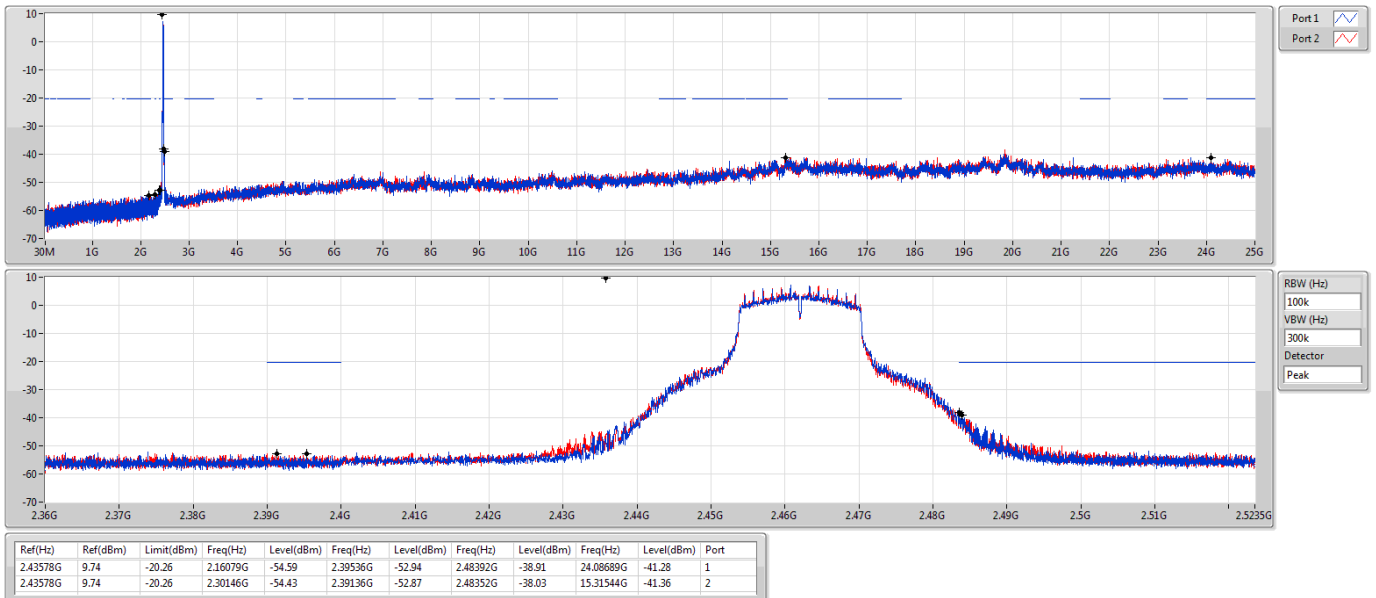
2437MHz



802.11g_Nss1,(6Mbps)_2TX

CSE NdB

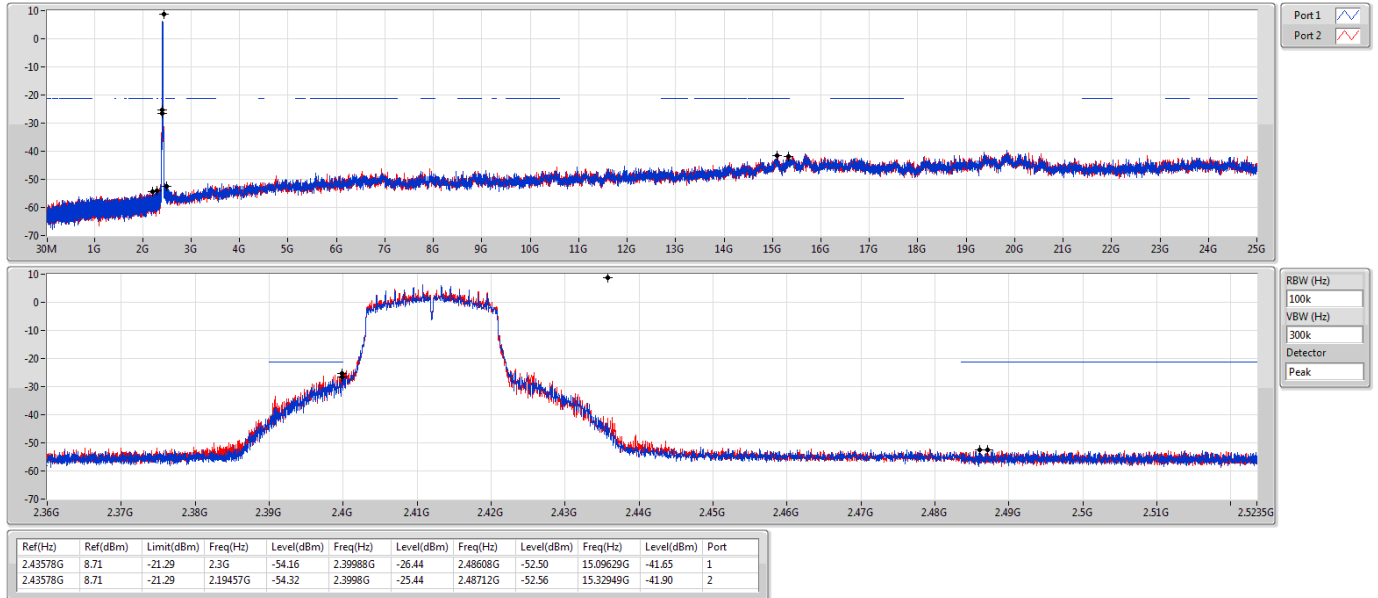
2462MHz



VHT20_Nss1,(MCS0)_2TX

CSE NdB

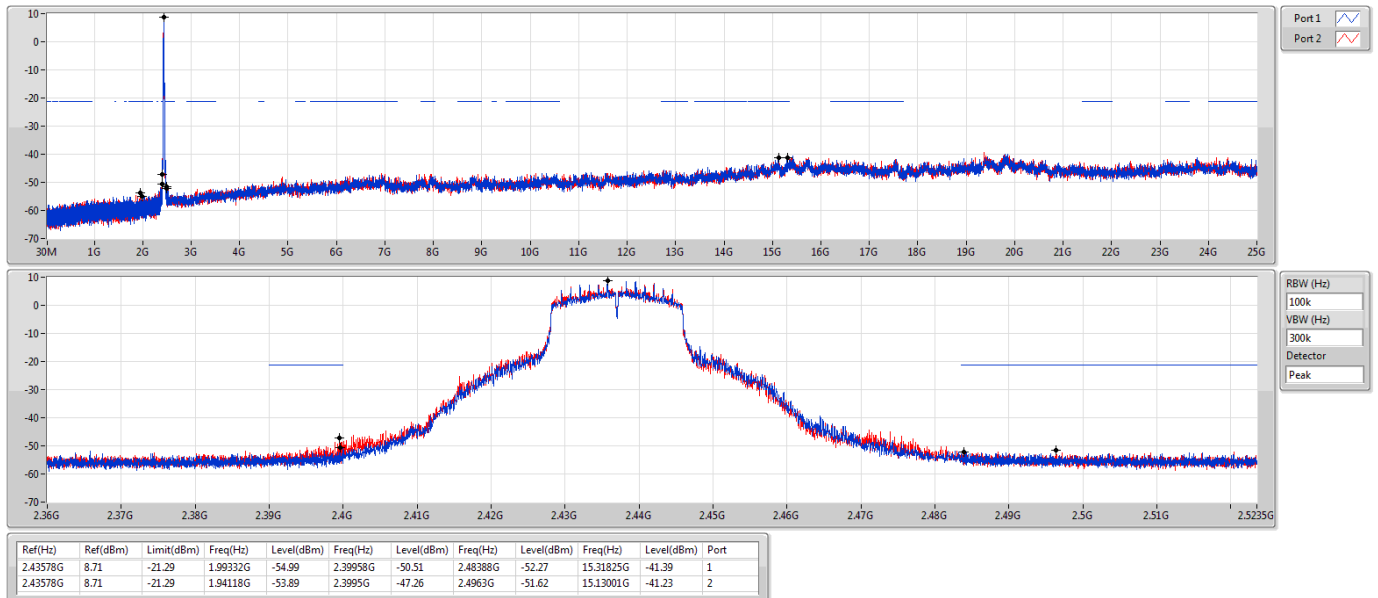
2412MHz



VHT20_Nss1,(MCS0)_2TX

CSE NdB

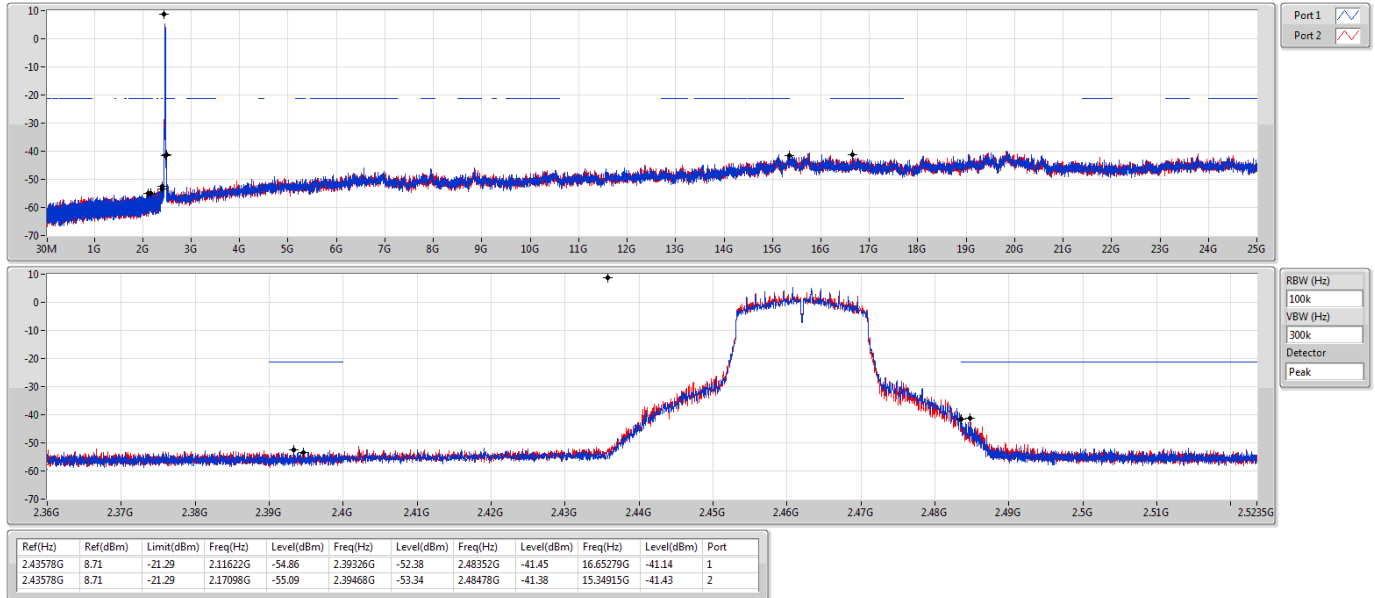
2437MHz



VHT20_Nss1,(MCS0)_2TX

CSE NdB

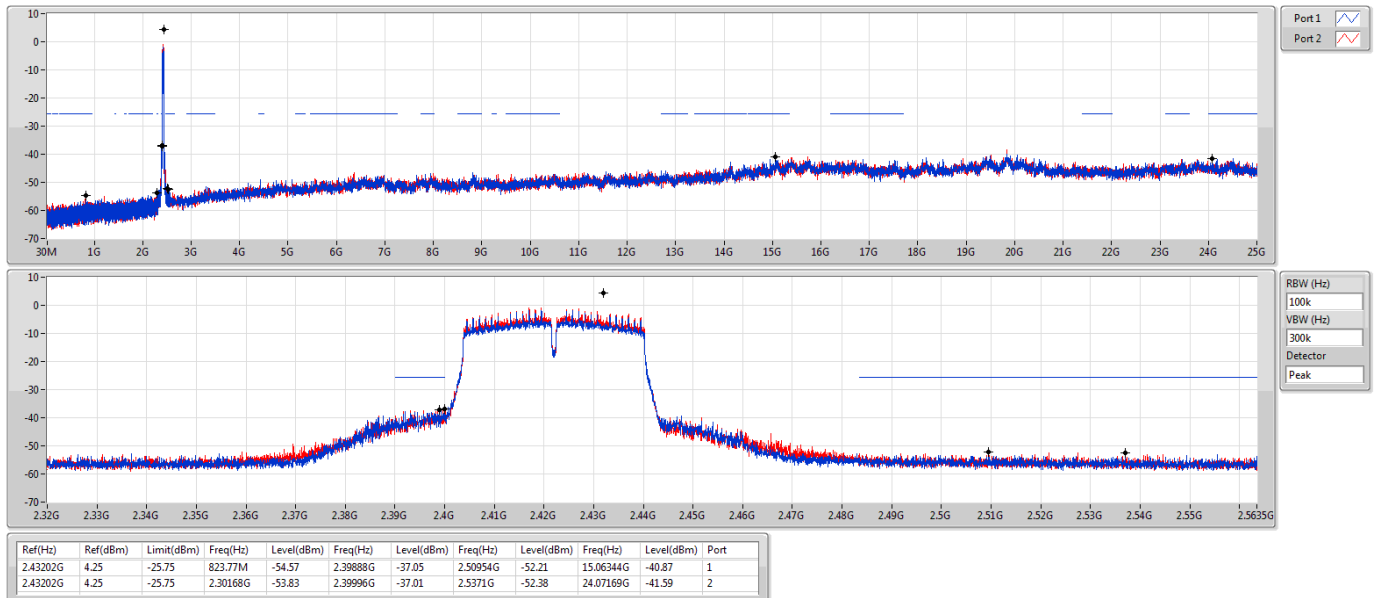
2462MHz



VHT40_Nss1,(MCS0)_2TX

CSE NdB

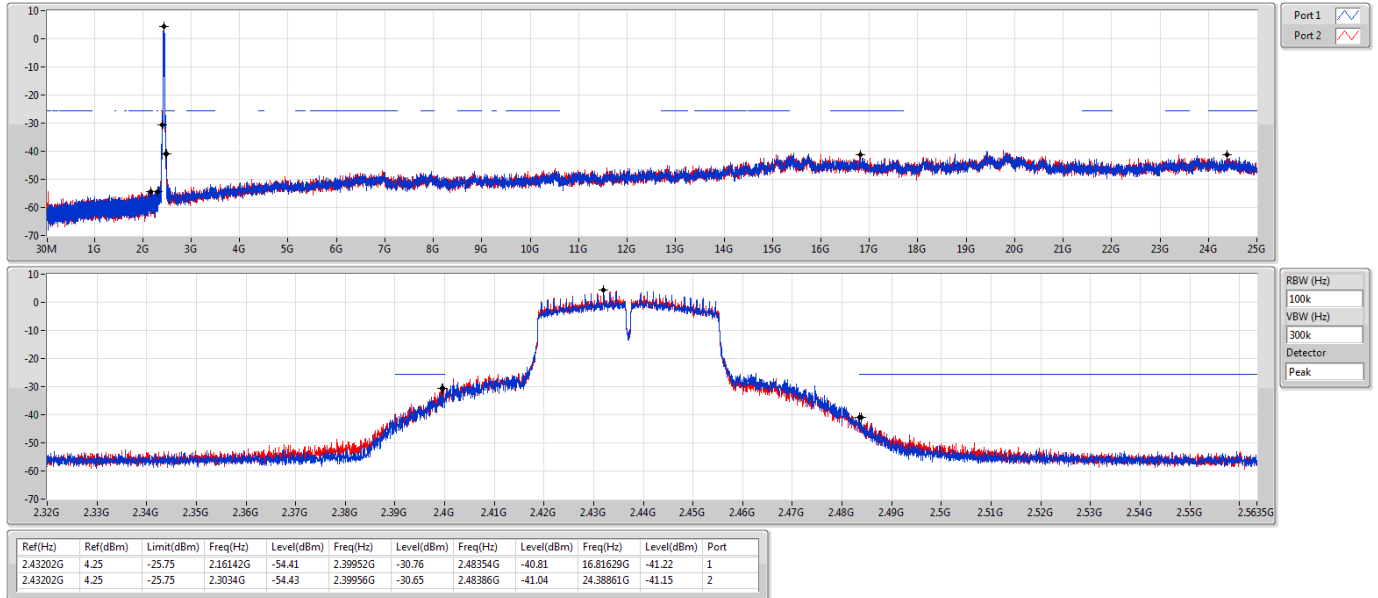
2422MHz



VHT40_Nss1,(MCS0)_2TX

CSE NdB

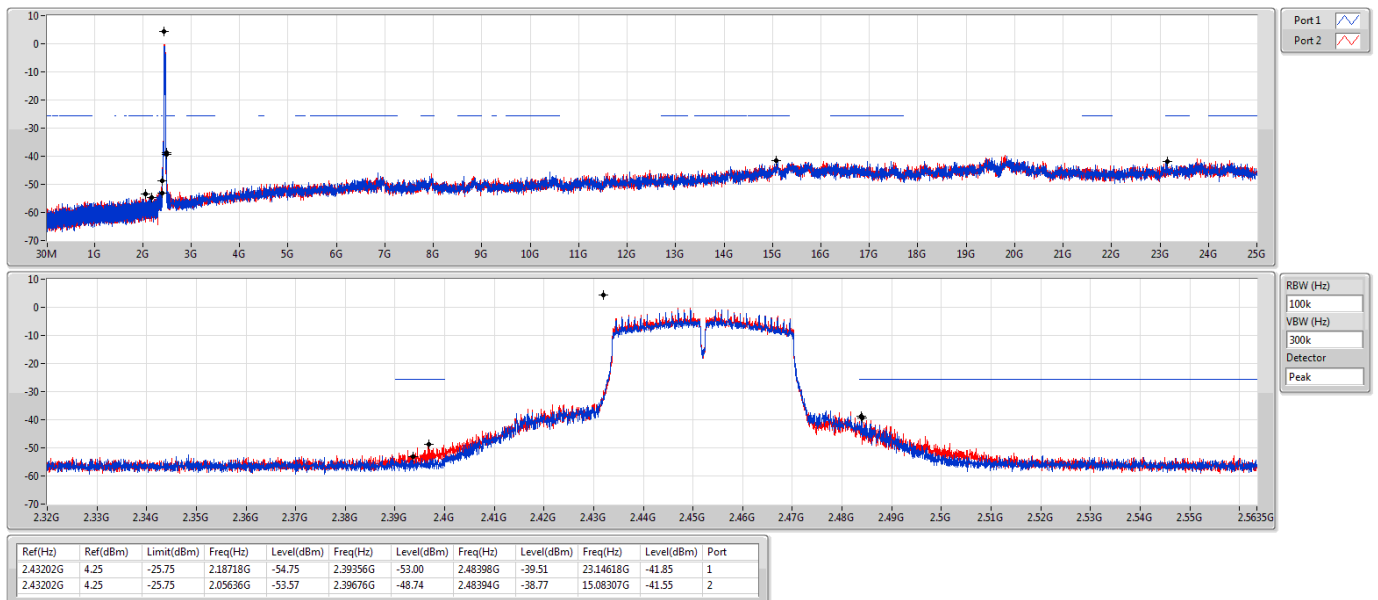
2437MHz



VHT40_Nss1,(MCS0)_2TX

CSE NdB

2452MHz





Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
VHT40_Nss1,(MCS0)_2TX	Pass	PK	600.36M	39.76	46.00	-6.24	3	Vertical	0	2.00	-

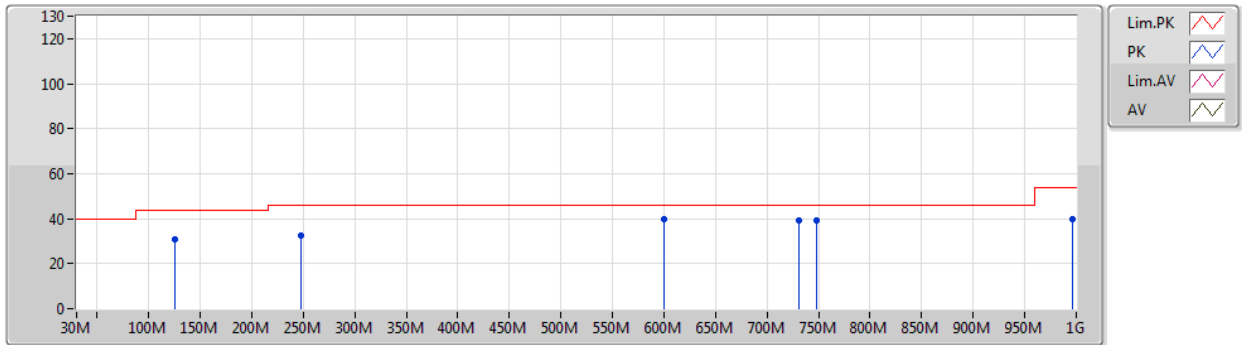
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	125.06M	30.56	43.50	-12.94	3	Vertical	0	2.00	-
2437MHz	Pass	PK	247.28M	32.28	46.00	-13.72	3	Vertical	0	2.00	-
2437MHz	Pass	PK	600.36M	39.76	46.00	-6.24	3	Vertical	0	2.00	-
2437MHz	Pass	PK	730.34M	39.32	46.00	-6.68	3	Vertical	0	2.00	-
2437MHz	Pass	PK	747.8M	39.29	46.00	-6.71	3	Vertical	0	2.00	-
2437MHz	Pass	PK	996.12M	39.65	54.00	-14.35	3	Vertical	0	2.00	-
2437MHz	Pass	PK	117.3M	36.37	43.50	-7.13	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	216M	35.31	43.50	-8.19	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	233.7M	35.93	46.00	-10.07	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	598.42M	36.93	46.00	-9.07	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	730.34M	38.43	46.00	-7.57	3	Horizontal	360	1.00	-
2437MHz	Pass	PK	833.16M	39.32	46.00	-6.68	3	Horizontal	360	1.00	-

VHT40_Nss1,(MCS0)_2TX

22/08/2019

2437MHz_USB

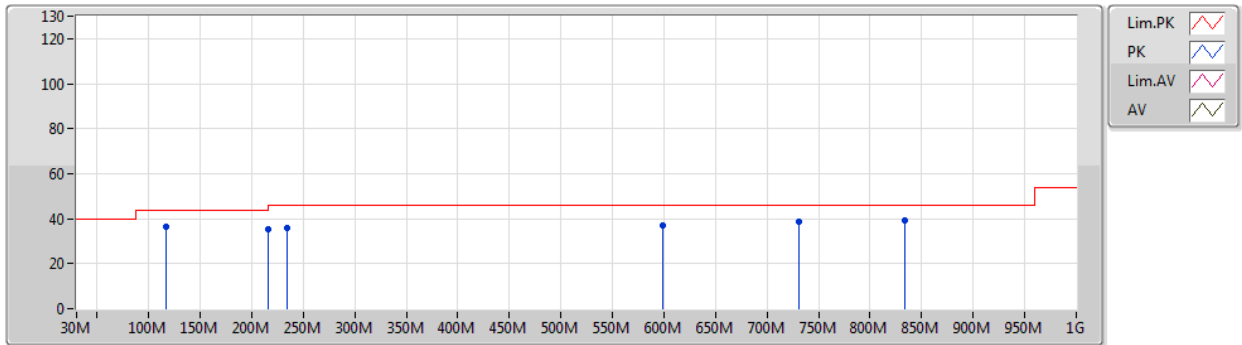


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	125.06M	30.56	43.50	-12.94	-19.00	3	Vertical	0	2.00	-	49.56	16.76	0.91	36.67
PK	247.28M	32.28	46.00	-13.72	-17.52	3	Vertical	0	2.00	-	49.80	17.62	1.28	36.42
PK	600.36M	39.76	46.00	-6.24	-10.43	3	Vertical	0	2.00	-	50.19	24.70	2.09	37.22
PK	730.34M	39.32	46.00	-6.68	-8.42	3	Vertical	0	2.00	-	47.74	26.66	2.32	37.40
PK	747.8M	39.29	46.00	-6.71	-7.95	3	Vertical	0	2.00	-	47.24	27.13	2.35	37.43
PK	996.12M	39.65	54.00	-14.35	-4.60	3	Vertical	0	2.00	-	44.25	29.87	2.63	37.10

VHT40_Nss1,(MCS0)_2TX

22/08/2019

2437MHz_USB



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	117.3M	36.37	43.50	-7.13	-19.26	3	Horizontal	360	1.00	-	55.63	16.57	0.88	36.71
PK	216M	35.31	43.50	-8.19	-20.91	3	Horizontal	360	1.00	-	56.22	14.26	1.21	36.38
PK	233.7M	35.93	46.00	-10.07	-19.31	3	Horizontal	360	1.00	-	55.24	15.83	1.26	36.40
PK	598.42M	36.93	46.00	-9.07	-10.45	3	Horizontal	360	1.00	-	47.38	24.68	2.09	37.22
PK	730.34M	38.43	46.00	-7.57	-8.42	3	Horizontal	360	1.00	-	46.85	26.66	2.32	37.40
PK	833.16M	39.32	46.00	-6.68	-7.04	3	Horizontal	360	1.00	-	46.36	27.98	2.48	37.50

**Summary**

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	4.92406G	52.70	54.00	-1.30	3	Horizontal	103	2.60	-
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	2.4858G	52.97	54.00	-1.03	3	Horizontal	340	2.24	-
VHT20_Nss1,(MCS0)_2TX	Pass	AV	2.4835G	52.98	54.00	-1.02	3	Horizontal	338	2.85	-
VHT40_Nss1,(MCS0)_2TX	Pass	AV	2.3896G	52.89	54.00	-1.11	3	Horizontal	322	1.11	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3836G	45.67	54.00	-8.33	3	Vertical	78	3.00	-
2412MHz	Pass	AV	2.4138G	101.25	Inf	-Inf	3	Vertical	78	3.00	-
2412MHz	Pass	PK	2.3708G	57.62	74.00	-16.38	3	Vertical	78	3.00	-
2412MHz	Pass	PK	2.413G	104.93	Inf	-Inf	3	Vertical	78	3.00	-
2412MHz	Pass	AV	2.3838G	46.54	54.00	-7.46	3	Horizontal	341	2.95	-
2412MHz	Pass	AV	2.4138G	105.68	Inf	-Inf	3	Horizontal	341	2.95	-
2412MHz	Pass	PK	2.379G	58.22	74.00	-15.78	3	Horizontal	341	2.95	-
2412MHz	Pass	PK	2.4146G	109.20	Inf	-Inf	3	Horizontal	341	2.95	-
2412MHz	Pass	AV	4.82406G	51.03	54.00	-2.97	3	Vertical	234	2.80	-
2412MHz	Pass	PK	4.82404G	53.62	74.00	-20.38	3	Vertical	234	2.80	-
2412MHz	Pass	AV	4.82408G	52.47	54.00	-1.53	3	Horizontal	133	1.00	-
2412MHz	Pass	PK	4.82412G	54.97	74.00	-19.03	3	Horizontal	133	1.00	-
2437MHz	Pass	AV	2.385G	45.10	54.00	-8.90	3	Vertical	12	3.00	-
2437MHz	Pass	AV	2.4362G	107.33	Inf	-Inf	3	Vertical	12	3.00	-
2437MHz	Pass	AV	2.499G	45.69	54.00	-8.31	3	Vertical	12	3.00	-
2437MHz	Pass	PK	2.373G	58.67	74.00	-15.33	3	Vertical	12	3.00	-
2437MHz	Pass	PK	2.4378G	111.38	Inf	-Inf	3	Vertical	12	3.00	-
2437MHz	Pass	PK	2.485G	57.76	74.00	-16.24	3	Vertical	12	3.00	-
2437MHz	Pass	AV	2.385G	45.03	54.00	-8.97	3	Horizontal	305	3.00	-
2437MHz	Pass	AV	2.4362G	104.23	Inf	-Inf	3	Horizontal	305	3.00	-
2437MHz	Pass	AV	2.4898G	45.65	54.00	-8.35	3	Horizontal	305	3.00	-
2437MHz	Pass	PK	2.3542G	57.05	74.00	-16.95	3	Horizontal	305	3.00	-
2437MHz	Pass	PK	2.4378G	108.10	Inf	-Inf	3	Horizontal	305	3.00	-
2437MHz	Pass	PK	2.4906G	57.55	74.00	-16.45	3	Horizontal	305	3.00	-
2437MHz	Pass	AV	4.87404G	48.66	54.00	-5.34	3	Vertical	197	3.00	-
2437MHz	Pass	PK	4.87408G	52.30	74.00	-21.70	3	Vertical	197	3.00	-
2437MHz	Pass	AV	4.87404G	52.11	54.00	-1.89	3	Horizontal	104	1.00	-
2437MHz	Pass	PK	4.874G	54.77	74.00	-19.23	3	Horizontal	104	1.00	-
2462MHz	Pass	AV	2.4612G	104.71	Inf	-Inf	3	Vertical	57	2.72	-
2462MHz	Pass	AV	2.4835G	46.34	54.00	-7.66	3	Vertical	57	2.72	-
2462MHz	Pass	PK	2.461G	108.62	Inf	-Inf	3	Vertical	57	2.72	-
2462MHz	Pass	PK	2.486G	58.15	74.00	-15.85	3	Vertical	57	2.72	-
2462MHz	Pass	AV	2.4612G	105.93	Inf	-Inf	3	Horizontal	332	2.09	-
2462MHz	Pass	AV	2.4835G	46.65	54.00	-7.35	3	Horizontal	332	2.09	-
2462MHz	Pass	PK	2.461G	109.86	Inf	-Inf	3	Horizontal	332	2.09	-
2462MHz	Pass	PK	2.4874G	58.22	74.00	-15.78	3	Horizontal	332	2.09	-
2462MHz	Pass	AV	4.92406G	45.99	54.00	-8.01	3	Vertical	266	1.16	-
2462MHz	Pass	PK	4.92408G	50.21	74.00	-23.79	3	Vertical	266	1.16	-
2462MHz	Pass	AV	4.92406G	52.70	54.00	-1.30	3	Horizontal	103	2.60	-
2462MHz	Pass	PK	4.92402G	55.22	74.00	-18.78	3	Horizontal	103	2.60	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3894G	49.64	54.00	-4.36	3	Vertical	173	2.63	-
2412MHz	Pass	AV	2.4132G	102.35	Inf	-Inf	3	Vertical	173	2.63	-
2412MHz	Pass	PK	2.3894G	66.13	74.00	-7.87	3	Vertical	173	2.63	-
2412MHz	Pass	PK	2.4132G	111.27	Inf	-Inf	3	Vertical	173	2.63	-
2412MHz	Pass	AV	2.39G	52.84	54.00	-1.16	3	Horizontal	130	1.22	-
2412MHz	Pass	AV	2.4102G	102.53	Inf	-Inf	3	Horizontal	130	1.22	-

Remark :

Page No. : F2 of F66

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

980219

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	PK	2.3894G	68.57	74.00	-5.43	3	Horizontal	130	1.22	-
2412MHz	Pass	PK	2.4102G	112.53	Inf	-Inf	3	Horizontal	130	1.22	-
2412MHz	Pass	AV	4.826G	38.07	54.00	-15.93	3	Vertical	284	1.49	-
2412MHz	Pass	PK	4.82326G	52.06	74.00	-21.94	3	Vertical	284	1.49	-
2412MHz	Pass	AV	4.8222G	35.04	54.00	-18.96	3	Horizontal	50	2.91	-
2412MHz	Pass	PK	4.82202G	49.44	74.00	-24.56	3	Horizontal	50	2.91	-
2417MHz	Pass	AV	2.3888G	48.41	54.00	-5.59	3	Vertical	177	2.62	-
2417MHz	Pass	AV	2.4182G	104.67	Inf	-Inf	3	Vertical	177	2.62	-
2417MHz	Pass	PK	2.3888G	65.67	74.00	-8.33	3	Vertical	177	2.62	-
2417MHz	Pass	PK	2.418G	113.62	Inf	-Inf	3	Vertical	177	2.62	-
2417MHz	Pass	AV	2.39G	51.12	54.00	-2.88	3	Horizontal	131	1.01	-
2417MHz	Pass	AV	2.4154G	104.71	Inf	-Inf	3	Horizontal	131	1.01	-
2417MHz	Pass	PK	2.39G	72.71	74.00	-1.29	3	Horizontal	131	1.01	-
2417MHz	Pass	PK	2.4152G	114.85	Inf	-Inf	3	Horizontal	131	1.01	-
2437MHz	Pass	AV	2.3878G	45.77	54.00	-8.23	3	Vertical	15	2.93	-
2437MHz	Pass	AV	2.4354G	105.25	Inf	-Inf	3	Vertical	15	2.93	-
2437MHz	Pass	AV	2.4854G	46.57	54.00	-7.43	3	Vertical	15	2.93	-
2437MHz	Pass	PK	2.3802G	57.99	74.00	-16.01	3	Vertical	15	2.93	-
2437MHz	Pass	PK	2.435G	115.57	Inf	-Inf	3	Vertical	15	2.93	-
2437MHz	Pass	PK	2.485G	58.88	74.00	-15.12	3	Vertical	15	2.93	-
2437MHz	Pass	AV	2.3654G	45.91	54.00	-8.09	3	Horizontal	333	1.28	-
2437MHz	Pass	AV	2.4382G	104.54	Inf	-Inf	3	Horizontal	333	1.28	-
2437MHz	Pass	AV	2.4835G	46.98	54.00	-7.02	3	Horizontal	333	1.28	-
2437MHz	Pass	PK	2.3402G	58.80	74.00	-15.20	3	Horizontal	333	1.28	-
2437MHz	Pass	PK	2.4386G	113.76	Inf	-Inf	3	Horizontal	333	1.28	-
2437MHz	Pass	PK	2.4886G	59.57	74.00	-14.43	3	Horizontal	333	1.28	-
2437MHz	Pass	AV	4.87612G	39.50	54.00	-14.50	3	Vertical	280	1.47	-
2437MHz	Pass	PK	4.8704G	53.16	74.00	-20.84	3	Vertical	280	1.47	-
2437MHz	Pass	AV	4.87636G	46.80	54.00	-7.20	3	Horizontal	101	1.00	-
2437MHz	Pass	PK	4.87656G	60.33	74.00	-13.67	3	Horizontal	101	1.00	-
2457MHz	Pass	AV	2.456G	102.42	Inf	-Inf	3	Vertical	75	2.39	-
2457MHz	Pass	AV	2.4858G	50.24	54.00	-3.76	3	Vertical	75	2.39	-
2457MHz	Pass	PK	2.4562G	111.97	Inf	-Inf	3	Vertical	75	2.39	-
2457MHz	Pass	PK	2.4866G	65.02	74.00	-8.98	3	Vertical	75	2.39	-
2457MHz	Pass	AV	2.456G	105.23	Inf	-Inf	3	Horizontal	340	2.24	-
2457MHz	Pass	AV	2.4858G	52.97	54.00	-1.03	3	Horizontal	340	2.24	-
2457MHz	Pass	PK	2.4562G	115.16	Inf	-Inf	3	Horizontal	340	2.24	-
2457MHz	Pass	PK	2.4866G	68.61	74.00	-5.39	3	Horizontal	340	2.24	-
2462MHz	Pass	AV	2.4612G	100.07	Inf	-Inf	3	Vertical	73	1.96	-
2462MHz	Pass	AV	2.4835G	49.46	54.00	-4.54	3	Vertical	73	1.96	-
2462MHz	Pass	PK	2.4612G	109.36	Inf	-Inf	3	Vertical	73	1.96	-
2462MHz	Pass	PK	2.486G	65.08	74.00	-8.92	3	Vertical	73	1.96	-
2462MHz	Pass	AV	2.461G	104.29	Inf	-Inf	3	Horizontal	338	2.60	-
2462MHz	Pass	AV	2.4835G	52.18	54.00	-1.82	3	Horizontal	338	2.60	-
2462MHz	Pass	PK	2.4612G	113.76	Inf	-Inf	3	Horizontal	338	2.60	-
2462MHz	Pass	PK	2.486G	69.70	74.00	-4.30	3	Horizontal	338	2.60	-
2462MHz	Pass	AV	4.9261G	40.70	54.00	-13.30	3	Vertical	202	2.96	-
2462MHz	Pass	PK	4.9258G	54.17	74.00	-19.83	3	Vertical	202	2.96	-
2462MHz	Pass	AV	4.9259G	44.97	54.00	-9.03	3	Horizontal	101	2.34	-

Remark :

Page No. : F3 of F66

$$\text{Level (dBuV/m)} = \text{Raw(Read Level)} + \text{AF(Antenna Factor)} + \text{CL(Cable Loss)} - \text{PA(Preamp Factor)}$$

980219

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	4.9258G	58.37	74.00	-15.63	3	Horizontal	101	2.34	-
VHT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	51.49	54.00	-2.51	3	Vertical	172	2.90	-
2412MHz	Pass	AV	2.4142G	99.50	Inf	-Inf	3	Vertical	172	2.90	-
2412MHz	Pass	PK	2.3898G	66.06	74.00	-7.94	3	Vertical	172	2.90	-
2412MHz	Pass	PK	2.415G	109.26	Inf	-Inf	3	Vertical	172	2.90	-
2412MHz	Pass	AV	2.39G	52.93	54.00	-1.07	3	Horizontal	131	1.00	-
2412MHz	Pass	AV	2.4098G	100.71	Inf	-Inf	3	Horizontal	131	1.00	-
2412MHz	Pass	PK	2.3898G	68.77	74.00	-5.23	3	Horizontal	131	1.00	-
2412MHz	Pass	PK	2.4138G	111.07	Inf	-Inf	3	Horizontal	131	1.00	-
2412MHz	Pass	AV	4.82258G	36.55	54.00	-17.45	3	Vertical	285	1.30	-
2412MHz	Pass	PK	4.8238G	49.95	74.00	-24.05	3	Vertical	285	1.30	-
2412MHz	Pass	AV	4.82528G	39.64	54.00	-14.36	3	Horizontal	100	3.00	-
2412MHz	Pass	PK	4.82368G	52.82	74.00	-21.18	3	Horizontal	100	3.00	-
2417MHz	Pass	AV	2.39G	47.68	54.00	-6.32	3	Vertical	177	2.63	-
2417MHz	Pass	AV	2.4164G	102.20	Inf	-Inf	3	Vertical	177	2.63	-
2417MHz	Pass	PK	2.3896G	64.67	74.00	-9.33	3	Vertical	177	2.63	-
2417MHz	Pass	PK	2.4202G	112.48	Inf	-Inf	3	Vertical	177	2.63	-
2417MHz	Pass	AV	2.39G	48.41	54.00	-5.59	3	Horizontal	131	1.01	-
2417MHz	Pass	AV	2.4148G	103.59	Inf	-Inf	3	Horizontal	131	1.01	-
2417MHz	Pass	PK	2.3896G	64.24	74.00	-9.76	3	Horizontal	131	1.01	-
2417MHz	Pass	PK	2.4188G	113.26	Inf	-Inf	3	Horizontal	131	1.01	-
2437MHz	Pass	AV	2.343G	46.26	54.00	-7.74	3	Vertical	32	2.90	-
2437MHz	Pass	AV	2.439G	102.92	Inf	-Inf	3	Vertical	32	2.90	-
2437MHz	Pass	AV	2.4866G	46.41	54.00	-7.59	3	Vertical	32	2.90	-
2437MHz	Pass	PK	2.3738G	57.30	74.00	-16.70	3	Vertical	32	2.90	-
2437MHz	Pass	PK	2.4386G	112.48	Inf	-Inf	3	Vertical	32	2.90	-
2437MHz	Pass	PK	2.4978G	57.08	74.00	-16.92	3	Vertical	32	2.90	-
2437MHz	Pass	AV	2.3518G	46.35	54.00	-7.65	3	Horizontal	29	1.40	-
2437MHz	Pass	AV	2.439G	99.45	Inf	-Inf	3	Horizontal	29	1.40	-
2437MHz	Pass	AV	2.4866G	46.54	54.00	-7.46	3	Horizontal	29	1.40	-
2437MHz	Pass	PK	2.3842G	57.24	74.00	-16.76	3	Horizontal	29	1.40	-
2437MHz	Pass	PK	2.4366G	109.09	Inf	-Inf	3	Horizontal	29	1.40	-
2437MHz	Pass	PK	2.4918G	57.70	74.00	-16.30	3	Horizontal	29	1.40	-
2437MHz	Pass	AV	4.86988G	38.43	54.00	-15.57	3	Vertical	283	1.48	-
2437MHz	Pass	PK	4.87032G	52.73	74.00	-21.27	3	Vertical	283	1.48	-
2437MHz	Pass	AV	4.87278G	45.06	54.00	-8.94	3	Horizontal	100	1.00	-
2437MHz	Pass	PK	4.87386G	57.82	74.00	-16.18	3	Horizontal	100	1.00	-
2457MHz	Pass	AV	2.4594G	100.70	Inf	-Inf	3	Vertical	77	1.95	-
2457MHz	Pass	AV	2.4835G	49.17	54.00	-4.83	3	Vertical	77	1.95	-
2457MHz	Pass	PK	2.459G	110.30	Inf	-Inf	3	Vertical	77	1.95	-
2457MHz	Pass	PK	2.4835G	63.41	74.00	-10.59	3	Vertical	77	1.95	-
2457MHz	Pass	AV	2.4592G	103.35	Inf	-Inf	3	Horizontal	339	2.23	-
2457MHz	Pass	AV	2.4835G	52.54	54.00	-1.46	3	Horizontal	339	2.23	-
2457MHz	Pass	PK	2.4586G	113.60	Inf	-Inf	3	Horizontal	339	2.23	-
2457MHz	Pass	PK	2.4846G	65.30	74.00	-8.70	3	Horizontal	339	2.23	-
2462MHz	Pass	AV	2.4628G	96.21	Inf	-Inf	3	Vertical	77	1.96	-
2462MHz	Pass	AV	2.4835G	49.39	54.00	-4.61	3	Vertical	77	1.96	-
2462MHz	Pass	PK	2.4636G	106.52	Inf	-Inf	3	Vertical	77	1.96	-

Remark :

Page No. : F4 of F66

$$\text{Level (dBuV/m)} = \text{Raw(Read Level)} + \text{AF(Antenna Factor)} + \text{CL(Cable Loss)} - \text{PA(Preamp Factor)}$$

980219

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2462MHz	Pass	PK	2.4836G	63.26	74.00	-10.74	3	Vertical	77	1.96	-
2462MHz	Pass	AV	2.46G	99.57	Inf	-Inf	3	Horizontal	338	2.85	-
2462MHz	Pass	AV	2.4835G	52.98	54.00	-1.02	3	Horizontal	338	2.85	-
2462MHz	Pass	PK	2.4636G	109.83	Inf	-Inf	3	Horizontal	338	2.85	-
2462MHz	Pass	PK	2.4838G	66.38	74.00	-7.62	3	Horizontal	338	2.85	-
2462MHz	Pass	AV	4.92518G	34.82	54.00	-19.18	3	Vertical	275	1.28	-
2462MHz	Pass	PK	4.9202G	48.00	74.00	-26.00	3	Vertical	275	1.28	-
2462MHz	Pass	AV	4.92242G	40.61	54.00	-13.39	3	Horizontal	101	2.61	-
2462MHz	Pass	PK	4.92428G	54.58	74.00	-19.42	3	Horizontal	101	2.61	-
VHT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3896G	52.54	54.00	-1.46	3	Vertical	32	3.00	-
2422MHz	Pass	AV	2.4256G	93.81	Inf	-Inf	3	Vertical	32	3.00	-
2422MHz	Pass	AV	2.4952G	46.66	54.00	-7.34	3	Vertical	32	3.00	-
2422MHz	Pass	PK	2.3888G	71.30	74.00	-2.70	3	Vertical	32	3.00	-
2422MHz	Pass	PK	2.4248G	104.24	Inf	-Inf	3	Vertical	32	3.00	-
2422MHz	Pass	PK	2.4936G	57.67	74.00	-16.33	3	Vertical	32	3.00	-
2422MHz	Pass	AV	2.3896G	52.89	54.00	-1.11	3	Horizontal	322	1.11	-
2422MHz	Pass	AV	2.4188G	92.20	Inf	-Inf	3	Horizontal	322	1.11	-
2422MHz	Pass	AV	2.4924G	46.81	54.00	-7.19	3	Horizontal	322	1.11	-
2422MHz	Pass	PK	2.3888G	70.06	74.00	-3.94	3	Horizontal	322	1.11	-
2422MHz	Pass	PK	2.4248G	102.83	Inf	-Inf	3	Horizontal	322	1.11	-
2422MHz	Pass	PK	2.4904G	57.61	74.00	-16.39	3	Horizontal	322	1.11	-
2422MHz	Pass	AV	4.84642G	31.38	54.00	-22.62	3	Vertical	281	1.40	-
2422MHz	Pass	PK	4.84276G	44.08	74.00	-29.92	3	Vertical	281	1.40	-
2422MHz	Pass	AV	4.84512G	33.26	54.00	-20.74	3	Horizontal	100	1.04	-
2422MHz	Pass	PK	4.84824G	45.92	74.00	-28.08	3	Horizontal	100	1.04	-
2427MHz	Pass	AV	2.3894G	52.64	54.00	-1.36	3	Vertical	15	3.00	-
2427MHz	Pass	AV	2.425G	96.07	Inf	-Inf	3	Vertical	15	3.00	-
2427MHz	Pass	AV	2.4874G	46.90	54.00	-7.10	3	Vertical	15	3.00	-
2427MHz	Pass	PK	2.3878G	64.73	74.00	-9.27	3	Vertical	15	3.00	-
2427MHz	Pass	PK	2.4258G	106.91	Inf	-Inf	3	Vertical	15	3.00	-
2427MHz	Pass	PK	2.4922G	57.86	74.00	-16.14	3	Vertical	15	3.00	-
2427MHz	Pass	AV	2.3898G	52.56	54.00	-1.44	3	Horizontal	326	1.50	-
2427MHz	Pass	AV	2.4238G	94.52	Inf	-Inf	3	Horizontal	326	1.50	-
2427MHz	Pass	AV	2.4974G	46.99	54.00	-7.01	3	Horizontal	326	1.50	-
2427MHz	Pass	PK	2.3898G	69.98	74.00	-4.02	3	Horizontal	326	1.50	-
2427MHz	Pass	PK	2.4298G	105.28	Inf	-Inf	3	Horizontal	326	1.50	-
2427MHz	Pass	PK	2.4914G	58.06	74.00	-15.94	3	Horizontal	326	1.50	-
2437MHz	Pass	AV	2.3898G	50.21	54.00	-3.79	3	Vertical	29	2.86	-
2437MHz	Pass	AV	2.4406G	98.35	Inf	-Inf	3	Vertical	29	2.86	-
2437MHz	Pass	AV	2.4835G	51.44	54.00	-2.56	3	Vertical	29	2.86	-
2437MHz	Pass	PK	2.3882G	63.94	74.00	-10.06	3	Vertical	29	2.86	-
2437MHz	Pass	PK	2.4394G	108.78	Inf	-Inf	3	Vertical	29	2.86	-
2437MHz	Pass	PK	2.4846G	65.38	74.00	-8.62	3	Vertical	29	2.86	-
2437MHz	Pass	AV	2.3898G	52.56	54.00	-1.44	3	Horizontal	323	1.49	-
2437MHz	Pass	AV	2.4338G	97.98	Inf	-Inf	3	Horizontal	323	1.49	-
2437MHz	Pass	AV	2.4835G	51.50	54.00	-2.50	3	Horizontal	323	1.49	-
2437MHz	Pass	PK	2.3882G	65.63	74.00	-8.37	3	Horizontal	323	1.49	-
2437MHz	Pass	PK	2.4346G	108.21	Inf	-Inf	3	Horizontal	323	1.49	-

Remark :

Page No. : F5 of F66

Level (dBuV/m) = Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamp Factor)

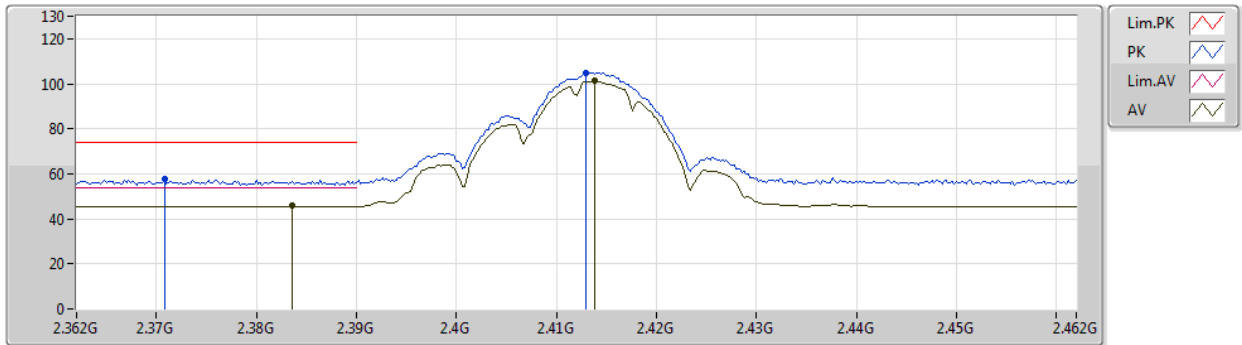
980219

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2437MHz	Pass	PK	2.4835G	64.70	74.00	-9.30	3	Horizontal	323	1.49	-
2437MHz	Pass	AV	4.87056G	34.42	54.00	-19.58	3	Vertical	283	1.50	-
2437MHz	Pass	PK	4.8707G	48.24	74.00	-25.76	3	Vertical	283	1.50	-
2437MHz	Pass	AV	4.87636G	38.77	54.00	-15.23	3	Horizontal	99	1.00	-
2437MHz	Pass	PK	4.87064G	51.92	74.00	-22.08	3	Horizontal	99	1.00	-
2447MHz	Pass	AV	2.3882G	45.80	54.00	-8.20	3	Vertical	319	1.87	-
2447MHz	Pass	AV	2.449G	91.54	Inf	-Inf	3	Vertical	319	1.87	-
2447MHz	Pass	AV	2.4846G	49.77	54.00	-4.23	3	Vertical	319	1.87	-
2447MHz	Pass	PK	2.3782G	56.61	74.00	-17.39	3	Vertical	319	1.87	-
2447MHz	Pass	PK	2.445G	101.74	Inf	-Inf	3	Vertical	319	1.87	-
2447MHz	Pass	PK	2.4838G	61.62	74.00	-12.38	3	Vertical	319	1.87	-
2447MHz	Pass	AV	2.3778G	46.38	54.00	-7.62	3	Horizontal	333	2.06	-
2447MHz	Pass	AV	2.4438G	95.67	Inf	-Inf	3	Horizontal	333	2.06	-
2447MHz	Pass	AV	2.485G	52.33	54.00	-1.67	3	Horizontal	333	2.06	-
2447MHz	Pass	PK	2.3694G	57.66	74.00	-16.34	3	Horizontal	333	2.06	-
2447MHz	Pass	PK	2.4446G	106.42	Inf	-Inf	3	Horizontal	333	2.06	-
2447MHz	Pass	PK	2.4846G	66.28	74.00	-7.72	3	Horizontal	333	2.06	-
2452MHz	Pass	AV	2.3896G	46.00	54.00	-8.00	3	Vertical	9	2.92	-
2452MHz	Pass	AV	2.46G	94.43	Inf	-Inf	3	Vertical	9	2.92	-
2452MHz	Pass	AV	2.4835G	52.19	54.00	-1.81	3	Vertical	9	2.92	-
2452MHz	Pass	PK	2.3792G	57.08	74.00	-16.92	3	Vertical	9	2.92	-
2452MHz	Pass	PK	2.4556G	104.96	Inf	-Inf	3	Vertical	9	2.92	-
2452MHz	Pass	PK	2.4835G	70.04	74.00	-3.96	3	Vertical	9	2.92	-
2452MHz	Pass	AV	2.3696G	46.54	54.00	-7.46	3	Horizontal	332	2.07	-
2452MHz	Pass	AV	2.4488G	93.94	Inf	-Inf	3	Horizontal	332	2.07	-
2452MHz	Pass	AV	2.4835G	51.09	54.00	-2.91	3	Horizontal	332	2.07	-
2452MHz	Pass	PK	2.3652G	57.68	74.00	-16.32	3	Horizontal	332	2.07	-
2452MHz	Pass	PK	2.4496G	104.32	Inf	-Inf	3	Horizontal	332	2.07	-
2452MHz	Pass	PK	2.4856G	70.36	74.00	-3.64	3	Horizontal	332	2.07	-
2452MHz	Pass	AV	4.90536G	31.96	54.00	-22.04	3	Vertical	278	1.61	-
2452MHz	Pass	PK	4.9053G	44.52	74.00	-29.48	3	Vertical	278	1.61	-
2452MHz	Pass	AV	4.90532G	34.44	54.00	-19.56	3	Horizontal	102	1.29	-
2452MHz	Pass	PK	4.9053G	47.95	74.00	-26.05	3	Horizontal	102	1.29	-

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2412MHz_TX

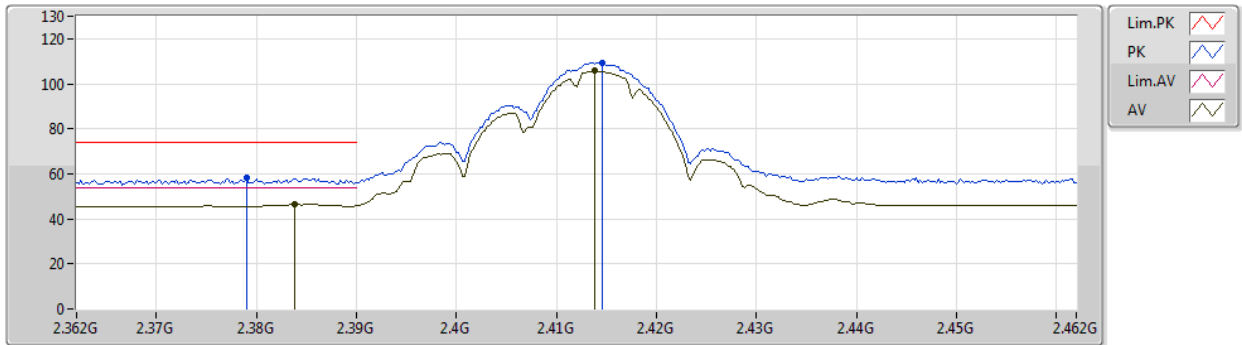


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3836G	45.67	54.00	-8.33	32.06	3	Vertical	78	3.00	-	13.61	27.35	4.71	-
AV	2.4138G	101.25	Inf	-Inf	32.19	3	Vertical	78	3.00	-	69.06	27.44	4.75	-
PK	2.3708G	57.62	74.00	-16.38	32.01	3	Vertical	78	3.00	-	25.61	27.31	4.70	-
PK	2.413G	104.93	Inf	-Inf	32.19	3	Vertical	78	3.00	-	72.74	27.44	4.75	-

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2412MHz_TX

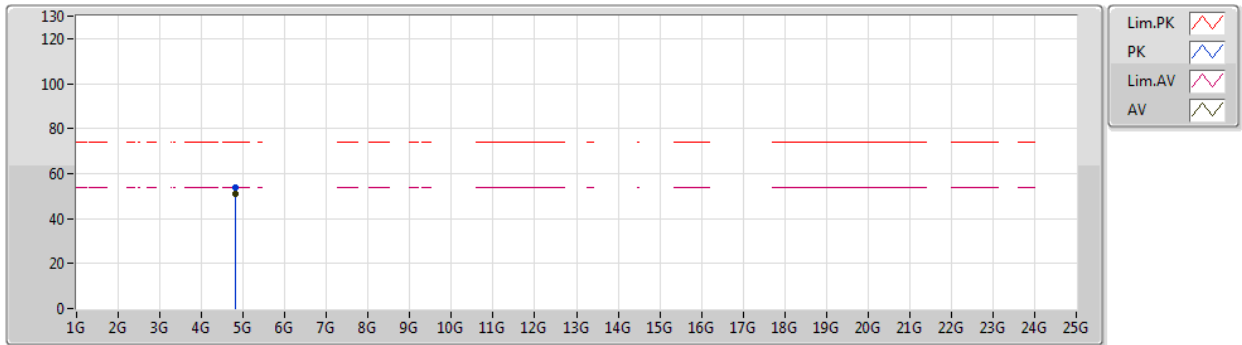


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3838G	46.54	54.00	-7.46	32.06	3	Horizontal	341	2.95	-	14.48	27.35	4.71	-
AV	2.4138G	105.68	Inf	-Inf	32.19	3	Horizontal	341	2.95	-	73.49	27.44	4.75	-
PK	2.379G	58.22	74.00	-15.78	32.05	3	Horizontal	341	2.95	-	26.17	27.34	4.71	-
PK	2.4146G	109.20	Inf	-Inf	32.19	3	Horizontal	341	2.95	-	77.01	27.44	4.75	-

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2412MHz_TX

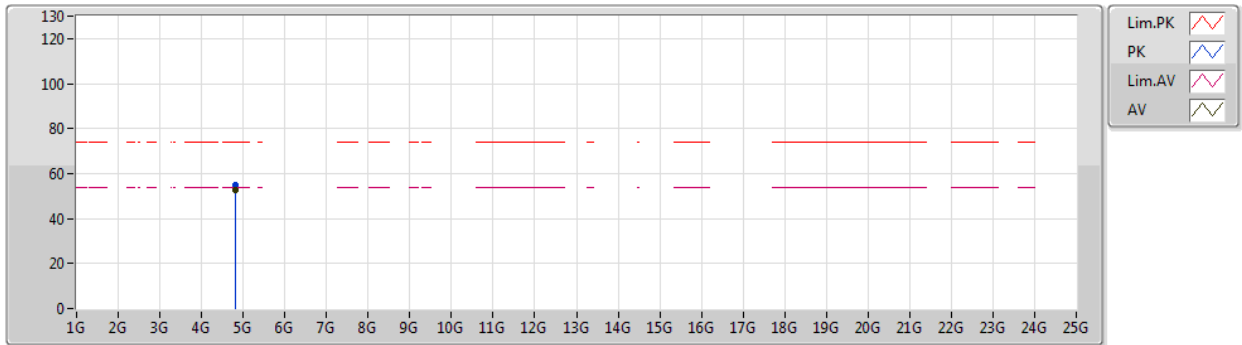


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82406G	51.03	54.00	-2.97	3.69	3	Vertical	234	2.80	-	47.34	31.38	6.79	34.48
PK	4.82404G	53.62	74.00	-20.38	3.69	3	Vertical	234	2.80	-	49.93	31.38	6.79	34.48

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2412MHz_TX

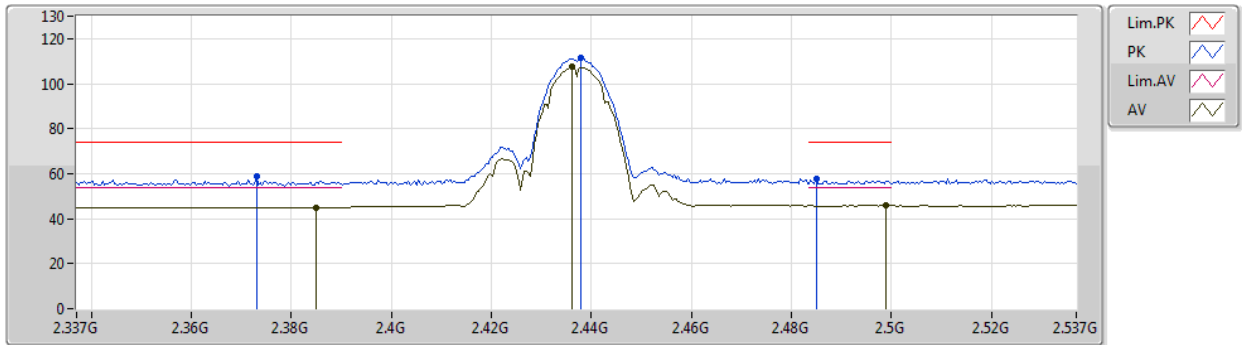


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82408G	52.47	54.00	-1.53	3.69	3	Horizontal	133	1.00	-	48.78	31.38	6.79	34.48
PK	4.82412G	54.97	74.00	-19.03	3.69	3	Horizontal	133	1.00	-	51.28	31.38	6.79	34.48

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

18/08/2019

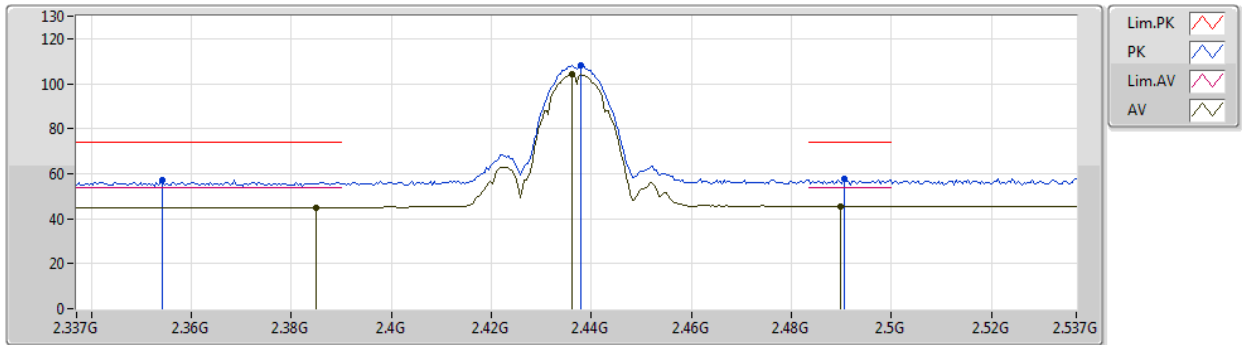


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.385G	45.10	54.00	-8.90	32.07	3	Vertical	12	3.00	-	13.03	27.36	4.71	-
AV	2.4362G	107.33	Inf	-Inf	32.28	3	Vertical	12	3.00	-	75.05	27.51	4.77	-
AV	2.499G	45.69	54.00	-8.31	32.55	3	Vertical	12	3.00	-	13.14	27.70	4.85	-
PK	2.373G	58.67	74.00	-15.33	32.02	3	Vertical	12	3.00	-	26.65	27.32	4.70	-
PK	2.4378G	111.38	Inf	-Inf	32.28	3	Vertical	12	3.00	-	79.10	27.51	4.77	-
PK	2.485G	57.76	74.00	-16.24	32.48	3	Vertical	12	3.00	-	25.28	27.65	4.83	-

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2437MHz_TX

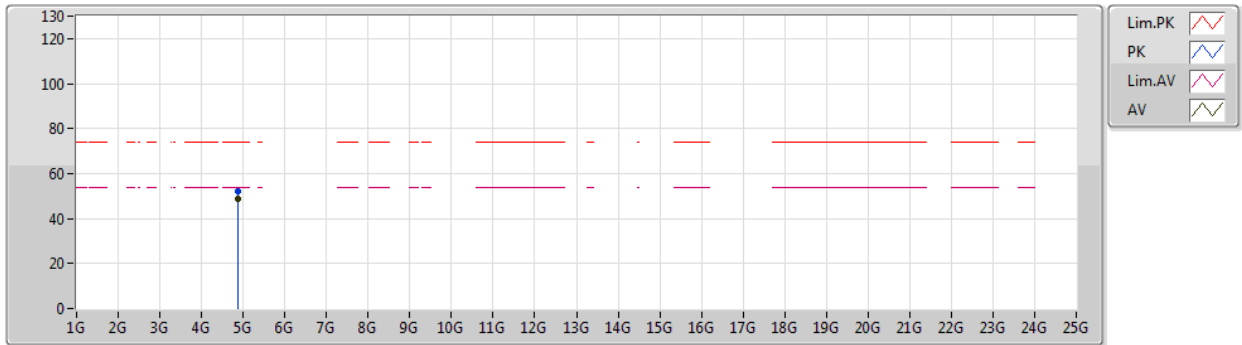


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.385G	45.03	54.00	-8.97	32.07	3	Horizontal	305	3.00	-	12.96	27.36	4.71	-
AV	2.4362G	104.23	Inf	-Inf	32.28	3	Horizontal	305	3.00	-	71.95	27.51	4.77	-
AV	2.4898G	45.65	54.00	-8.35	32.51	3	Horizontal	305	3.00	-	13.14	27.67	4.84	-
PK	2.3542G	57.05	74.00	-16.95	31.94	3	Horizontal	305	3.00	-	25.11	27.26	4.68	-
PK	2.4378G	108.10	Inf	-Inf	32.28	3	Horizontal	305	3.00	-	75.82	27.51	4.77	-
PK	2.4906G	57.55	74.00	-16.45	32.51	3	Horizontal	305	3.00	-	25.04	27.67	4.84	-

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2437MHz_TX

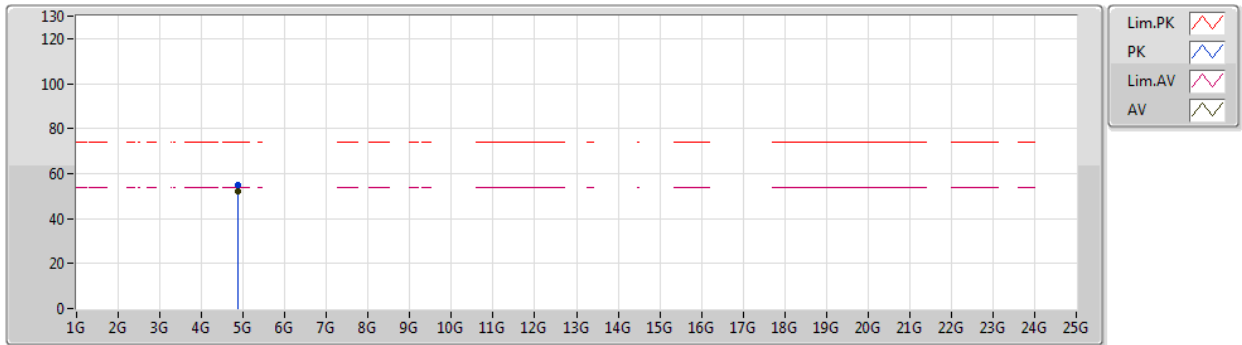


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87404G	48.66	54.00	-5.34	3.81	3	Vertical	197	3.00	-	44.85	31.47	6.81	34.47
PK	4.87408G	52.30	74.00	-21.70	3.81	3	Vertical	197	3.00	-	48.49	31.47	6.81	34.47

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2437MHz_TX

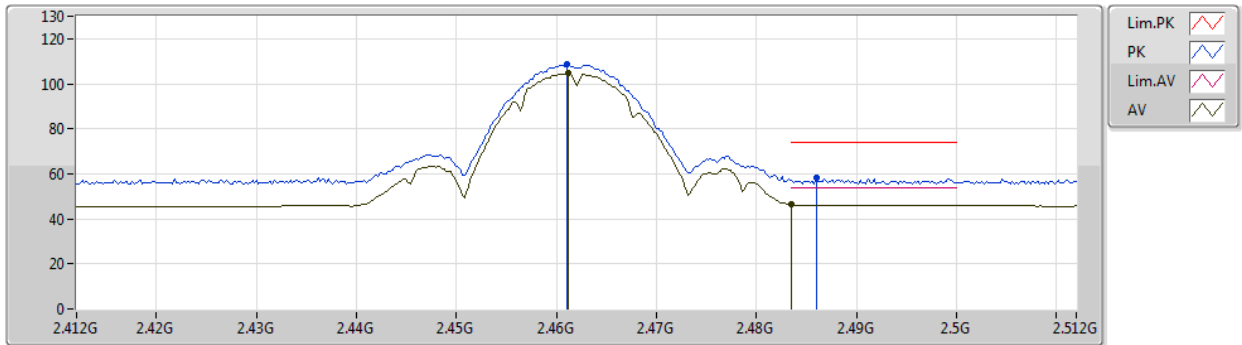


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87404G	52.11	54.00	-1.89	3.81	3	Horizontal	104	1.00	-	48.30	31.47	6.81	34.47
PK	4.874G	54.77	74.00	-19.23	3.81	3	Horizontal	104	1.00	-	50.96	31.47	6.81	34.47

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2462MHz_TX

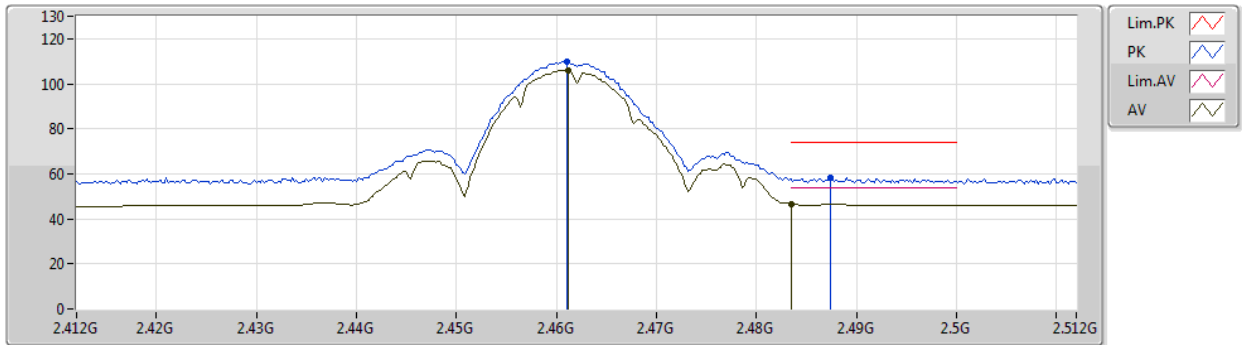


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	104.71	Inf	-Inf	32.38	3	Vertical	57	2.72	-	72.33	27.58	4.80	-
AV	2.4835G	46.34	54.00	-7.66	32.48	3	Vertical	57	2.72	-	13.86	27.65	4.83	-
PK	2.461G	108.62	Inf	-Inf	32.38	3	Vertical	57	2.72	-	76.24	27.58	4.80	-
PK	2.486G	58.15	74.00	-15.85	32.49	3	Vertical	57	2.72	-	25.66	27.66	4.83	-

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2462MHz_TX

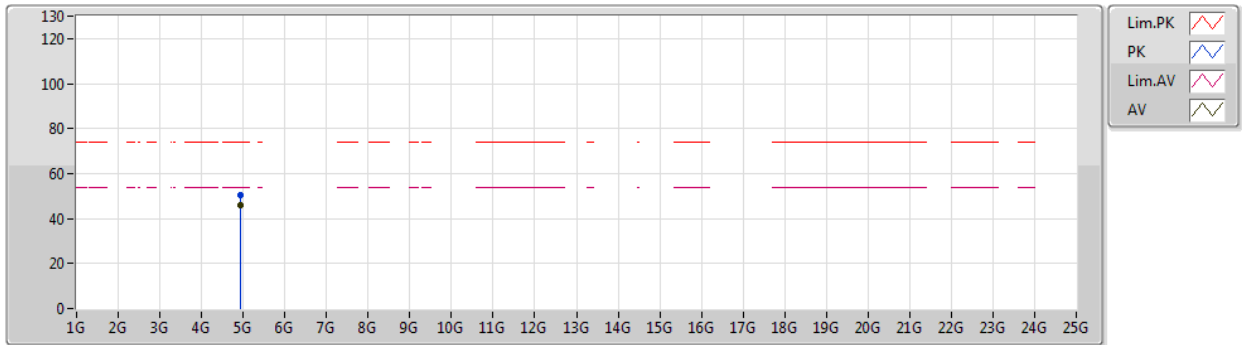


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4612G	105.93	Inf	-Inf	32.38	3	Horizontal	332	2.09	-	73.55	27.58	4.80	-
AV	2.4835G	46.65	54.00	-7.35	32.48	3	Horizontal	332	2.09	-	14.17	27.65	4.83	-
PK	2.461G	109.86	Inf	-Inf	32.38	3	Horizontal	332	2.09	-	77.48	27.58	4.80	-
PK	2.4874G	58.22	74.00	-15.78	32.49	3	Horizontal	332	2.09	-	25.73	27.66	4.83	-

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2462MHz_TX

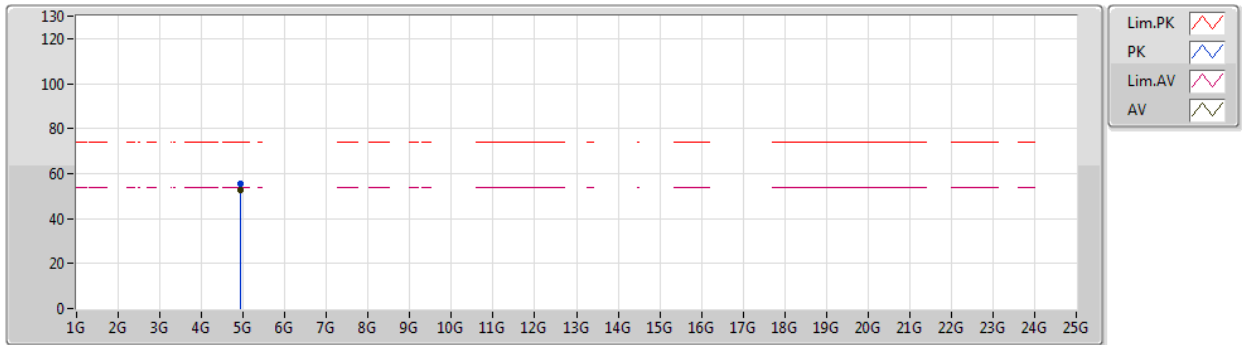


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92406G	45.99	54.00	-8.01	3.93	3	Vertical	266	1.16	-	42.06	31.56	6.82	34.45
PK	4.92408G	50.21	74.00	-23.79	3.93	3	Vertical	266	1.16	-	46.28	31.56	6.82	34.45

802.11b_Nss1,(1Mbps)_2TX

18/08/2019

2462MHz_TX

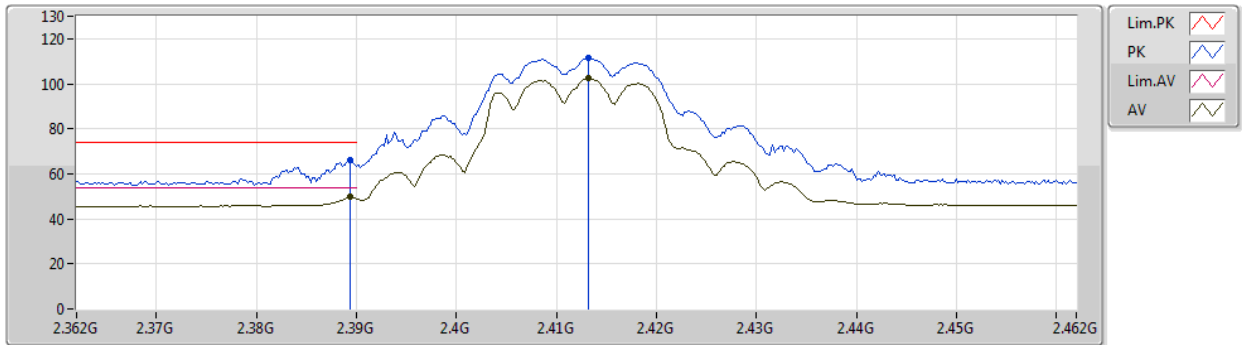


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92406G	52.70	54.00	-1.30	3.93	3	Horizontal	103	2.60	-	48.77	31.56	6.82	34.45
PK	4.92402G	55.22	74.00	-18.78	3.93	3	Horizontal	103	2.60	-	51.29	31.56	6.82	34.45

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2412MHz_TX

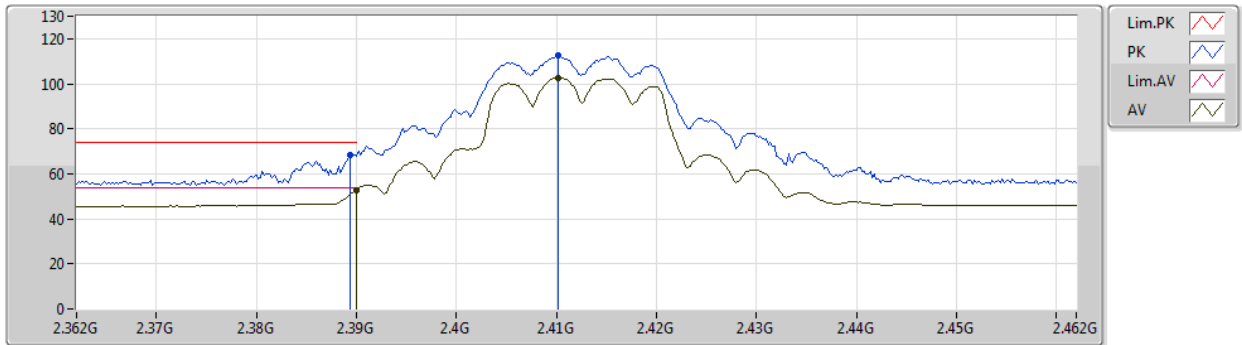


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	49.64	54.00	-4.36	32.09	3	Vertical	173	2.63	-	17.55	27.37	4.72	-
AV	2.4132G	102.35	Inf	-Inf	32.19	3	Vertical	173	2.63	-	70.16	27.44	4.75	-
PK	2.3894G	66.13	74.00	-7.87	32.09	3	Vertical	173	2.63	-	34.04	27.37	4.72	-
PK	2.4132G	111.27	Inf	-Inf	32.19	3	Vertical	173	2.63	-	79.08	27.44	4.75	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2412MHz_TX

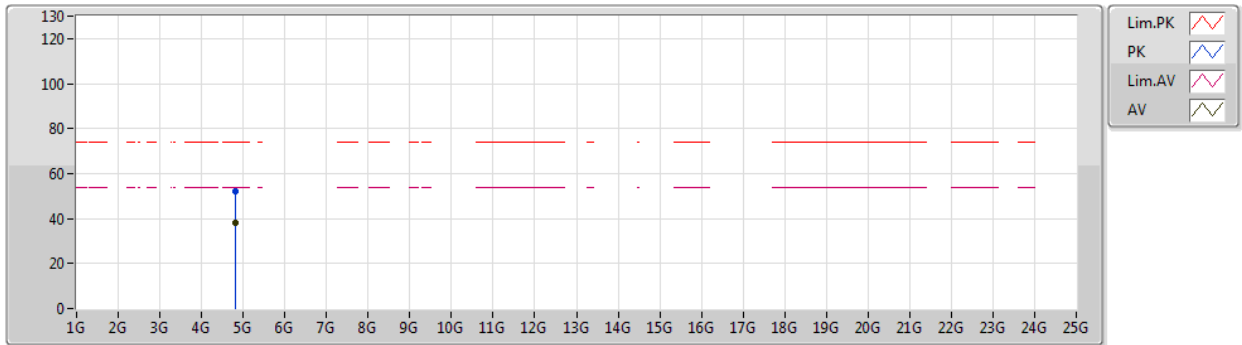


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.84	54.00	-1.16	32.09	3	Horizontal	130	1.22	-	20.75	27.37	4.72	-
AV	2.4102G	102.53	Inf	-Inf	32.17	3	Horizontal	130	1.22	-	70.36	27.43	4.74	-
PK	2.3894G	68.57	74.00	-5.43	32.09	3	Horizontal	130	1.22	-	36.48	27.37	4.72	-
PK	2.4102G	112.53	Inf	-Inf	32.17	3	Horizontal	130	1.22	-	80.36	27.43	4.74	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2412MHz_TX

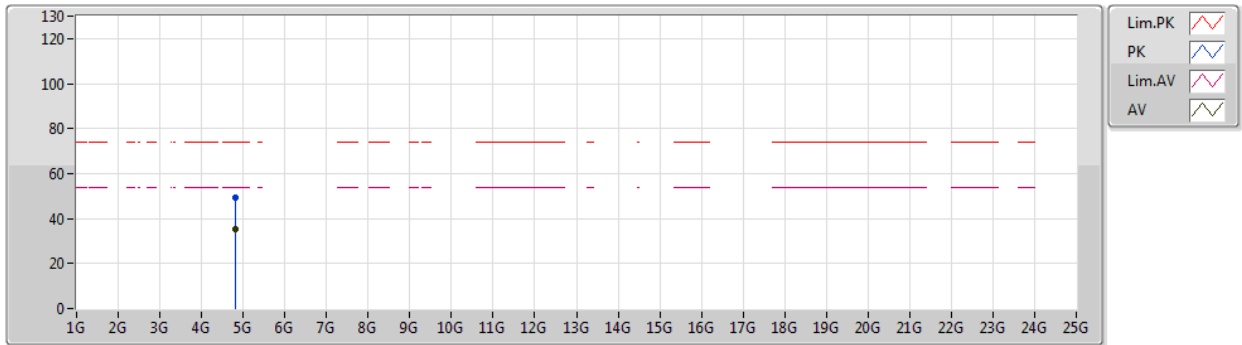


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.826G	38.07	54.00	-15.93	3.70	3	Vertical	284	1.49	-	34.37	31.39	6.79	34.48
PK	4.82326G	52.06	74.00	-21.94	3.69	3	Vertical	284	1.49	-	48.37	31.38	6.79	34.48

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2412MHz_TX

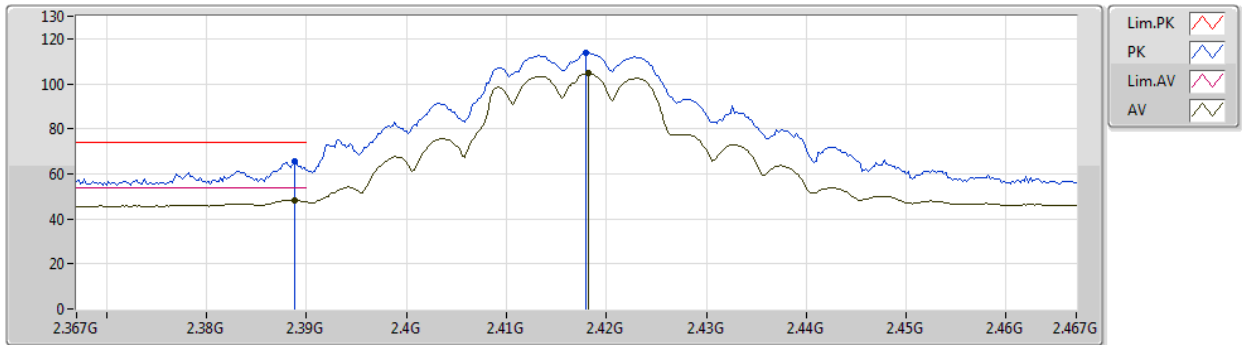


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.8222G	35.04	54.00	-18.96	3.69	3	Horizontal	50	2.91	-	31.35	31.38	6.79	34.48
PK	4.82202G	49.44	74.00	-24.56	3.69	3	Horizontal	50	2.91	-	45.75	31.38	6.79	34.48

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2417MHz_TX

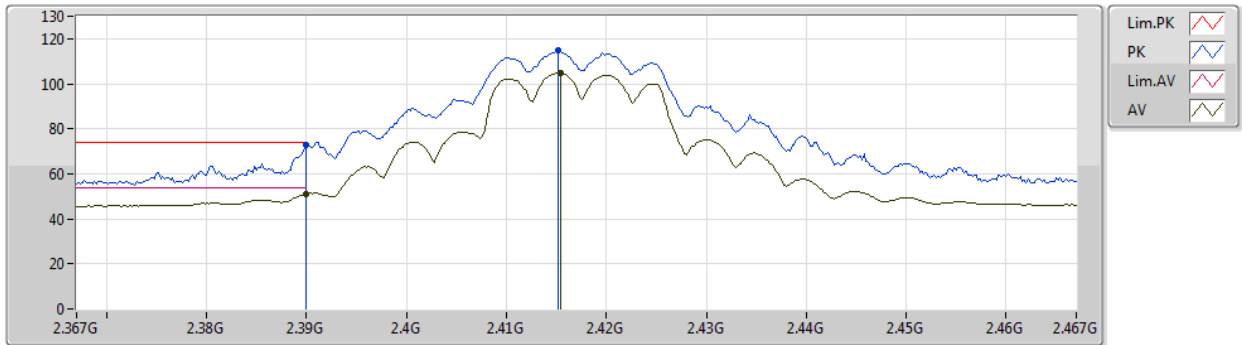


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3888G	48.41	54.00	-5.59	32.09	3	Vertical	177	2.62	-	16.32	27.37	4.72	-
AV	2.4182G	104.67	Inf	-Inf	32.20	3	Vertical	177	2.62	-	72.47	27.45	4.75	-
PK	2.3888G	65.67	74.00	-8.33	32.09	3	Vertical	177	2.62	-	33.58	27.37	4.72	-
PK	2.418G	113.62	Inf	-Inf	32.20	3	Vertical	177	2.62	-	81.42	27.45	4.75	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2417MHz_TX

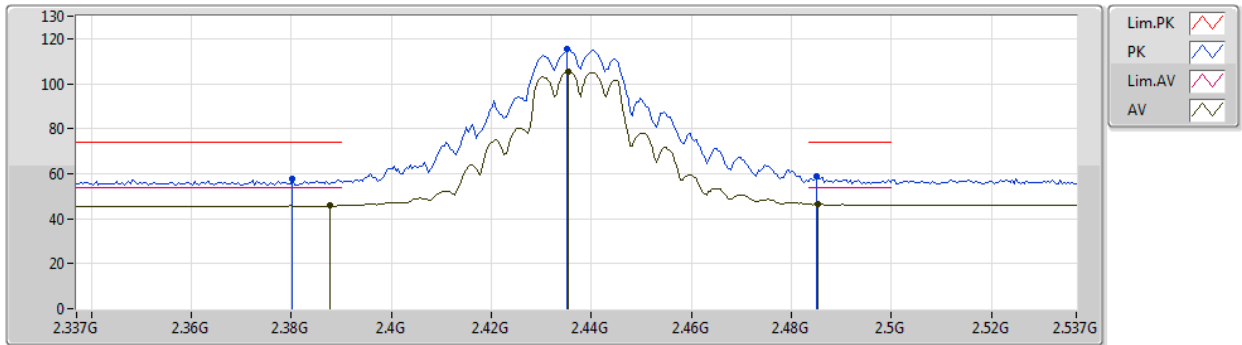


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.12	54.00	-2.88	32.09	3	Horizontal	131	1.01	-	19.03	27.37	4.72	-
AV	2.4154G	104.71	Inf	-Inf	32.20	3	Horizontal	131	1.01	-	72.51	27.45	4.75	-
PK	2.39G	72.71	74.00	-1.29	32.09	3	Horizontal	131	1.01	-	40.62	27.37	4.72	-
PK	2.4152G	114.85	Inf	-Inf	32.20	3	Horizontal	131	1.01	-	82.65	27.45	4.75	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2437MHz_TX

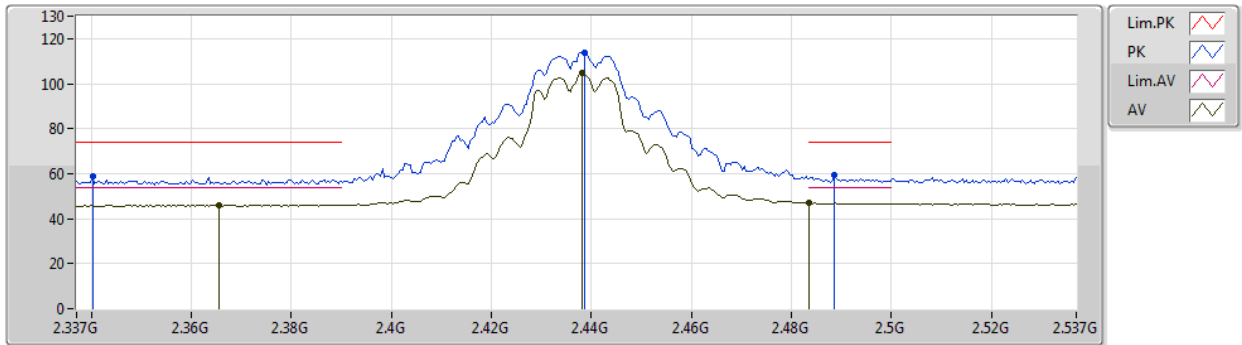


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3878G	45.77	54.00	-8.23	32.08	3	Vertical	15	2.93	-	13.69	27.36	4.72	-
AV	2.4354G	105.25	Inf	-Inf	32.28	3	Vertical	15	2.93	-	72.97	27.51	4.77	-
AV	2.4854G	46.57	54.00	-7.43	32.49	3	Vertical	15	2.93	-	14.08	27.66	4.83	-
PK	2.3802G	57.99	74.00	-16.01	32.05	3	Vertical	15	2.93	-	25.94	27.34	4.71	-
PK	2.435G	115.57	Inf	-Inf	32.27	3	Vertical	15	2.93	-	83.30	27.50	4.77	-
PK	2.485G	58.88	74.00	-15.12	32.48	3	Vertical	15	2.93	-	26.40	27.65	4.83	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2437MHz_TX

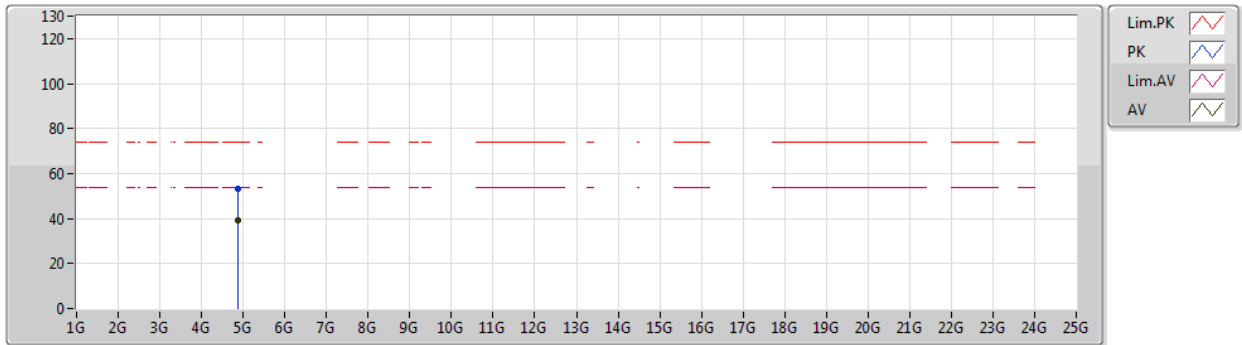


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3654G	45.91	54.00	-8.09	31.99	3	Horizontal	333	1.28	-	13.92	27.30	4.69	-
AV	2.4382G	104.54	Inf	-Inf	32.28	3	Horizontal	333	1.28	-	72.26	27.51	4.77	-
AV	2.4835G	46.98	54.00	-7.02	32.48	3	Horizontal	333	1.28	-	14.50	27.65	4.83	-
PK	2.3402G	58.80	74.00	-15.20	31.88	3	Horizontal	333	1.28	-	26.92	27.22	4.66	-
PK	2.4386G	113.76	Inf	-Inf	32.30	3	Horizontal	333	1.28	-	81.46	27.52	4.78	-
PK	2.4886G	59.57	74.00	-14.43	32.50	3	Horizontal	333	1.28	-	27.07	27.67	4.83	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2437MHz_TX

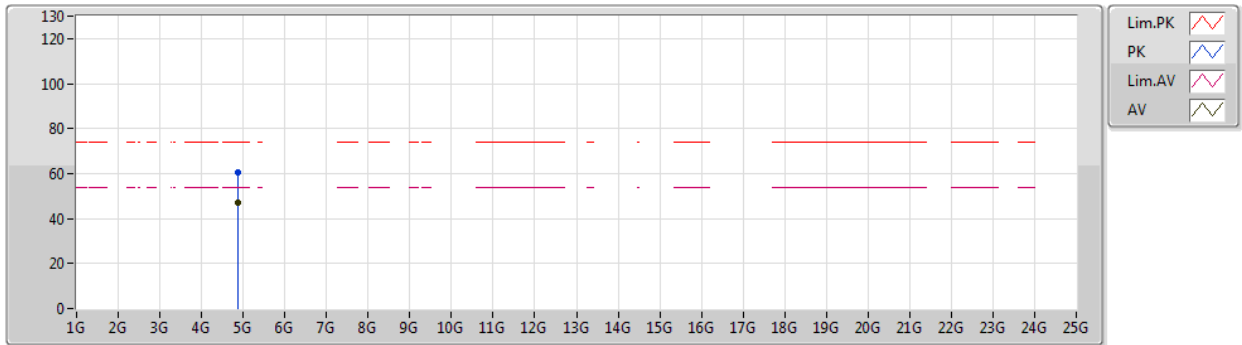


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87612G	39.50	54.00	-14.50	3.82	3	Vertical	280	1.47	-	35.68	31.48	6.81	34.47
PK	4.8704G	53.16	74.00	-20.84	3.81	3	Vertical	280	1.47	-	49.35	31.47	6.81	34.47

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2437MHz_TX

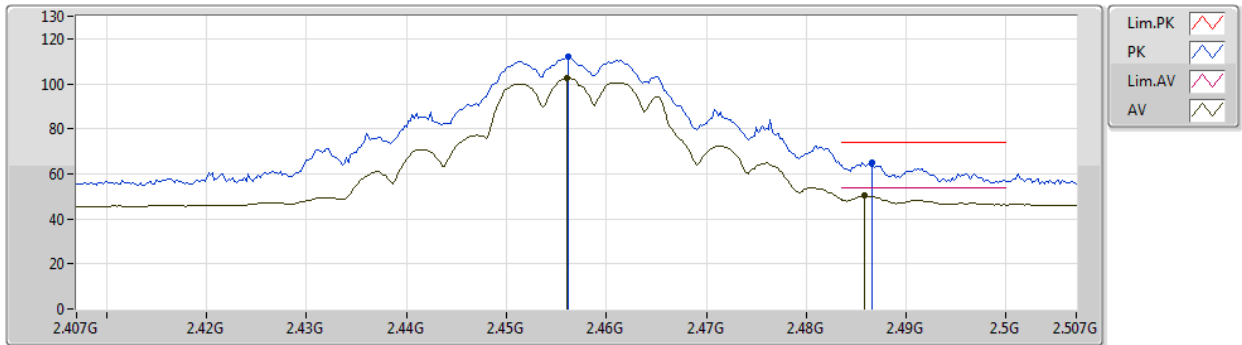


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87636G	46.80	54.00	-7.20	3.82	3	Horizontal	101	1.00	-	42.98	31.48	6.81	34.47
PK	4.87656G	60.33	74.00	-13.67	3.82	3	Horizontal	101	1.00	-	56.51	31.48	6.81	34.47

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2457MHz_TX

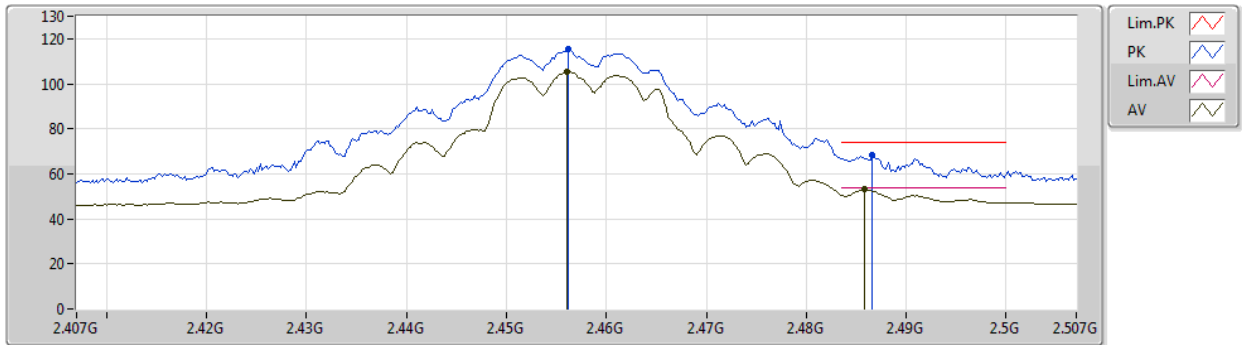


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.456G	102.42	Inf	-Inf	32.37	3	Vertical	75	2.39	-	70.05	27.57	4.80	-
AV	2.4858G	50.24	54.00	-3.76	32.49	3	Vertical	75	2.39	-	17.75	27.66	4.83	-
PK	2.4562G	111.97	Inf	-Inf	32.37	3	Vertical	75	2.39	-	79.60	27.57	4.80	-
PK	2.4866G	65.02	74.00	-8.98	32.49	3	Vertical	75	2.39	-	32.53	27.66	4.83	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2457MHz_TX

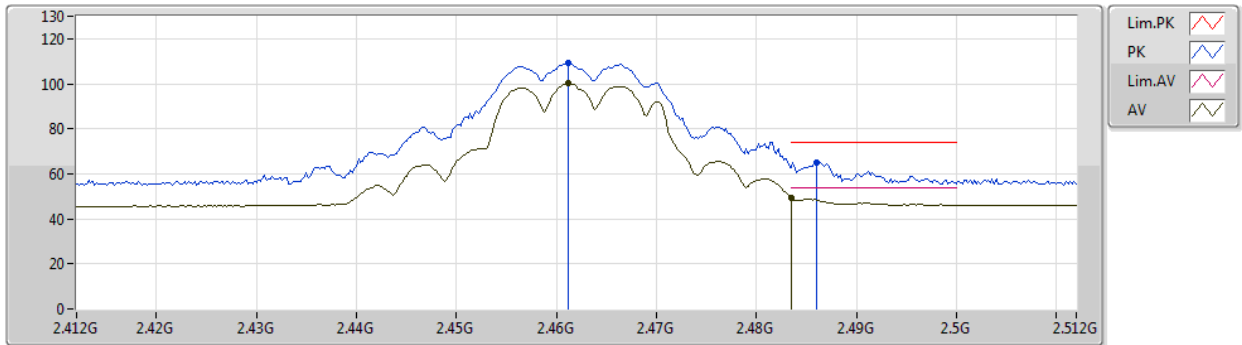


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.456G	105.23	Inf	-Inf	32.37	3	Horizontal	340	2.24	-	72.86	27.57	4.80	-
AV	2.4858G	52.97	54.00	-1.03	32.49	3	Horizontal	340	2.24	-	20.48	27.66	4.83	-
PK	2.4562G	115.16	Inf	-Inf	32.37	3	Horizontal	340	2.24	-	82.79	27.57	4.80	-
PK	2.4866G	68.61	74.00	-5.39	32.49	3	Horizontal	340	2.24	-	36.12	27.66	4.83	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

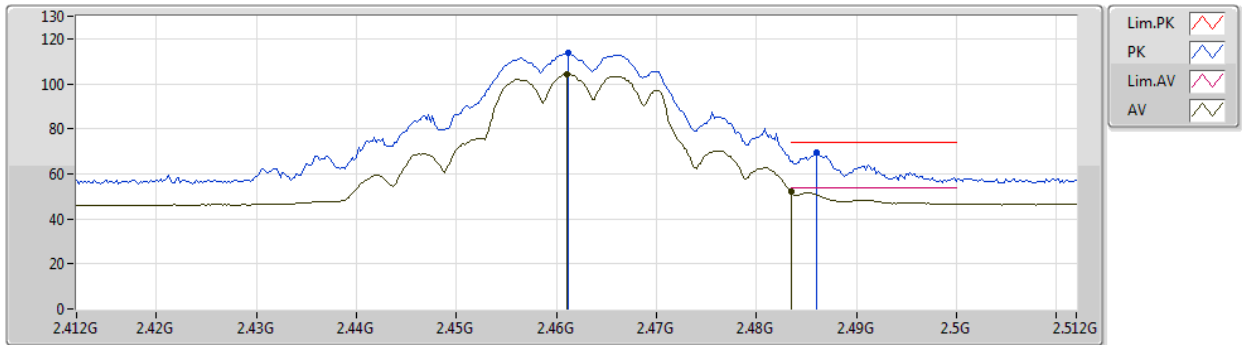
2462MHz_TX



802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2462MHz_TX

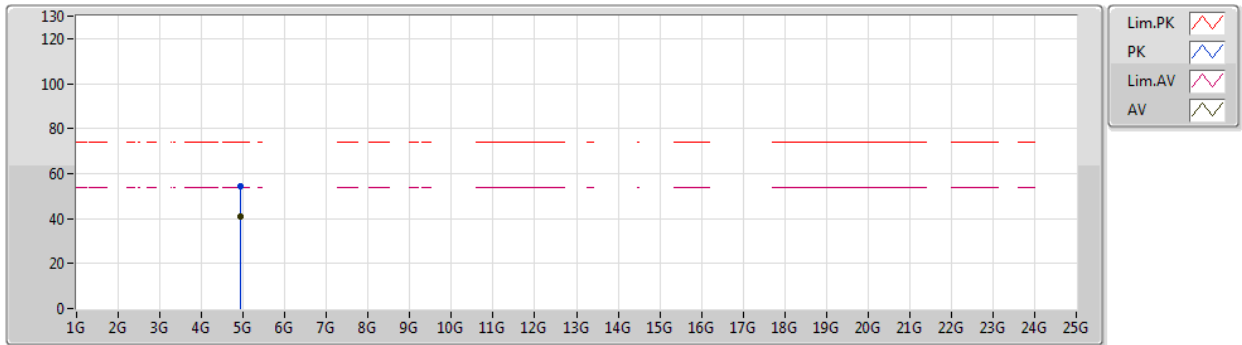


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.461G	104.29	Inf	-Inf	32.38	3	Horizontal	338	2.60	-	71.91	27.58	4.80	-
AV	2.4835G	52.18	54.00	-1.82	32.48	3	Horizontal	338	2.60	-	19.70	27.65	4.83	-
PK	2.4612G	113.76	Inf	-Inf	32.38	3	Horizontal	338	2.60	-	81.38	27.58	4.80	-
PK	2.486G	69.70	74.00	-4.30	32.49	3	Horizontal	338	2.60	-	37.21	27.66	4.83	-

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2462MHz_TX

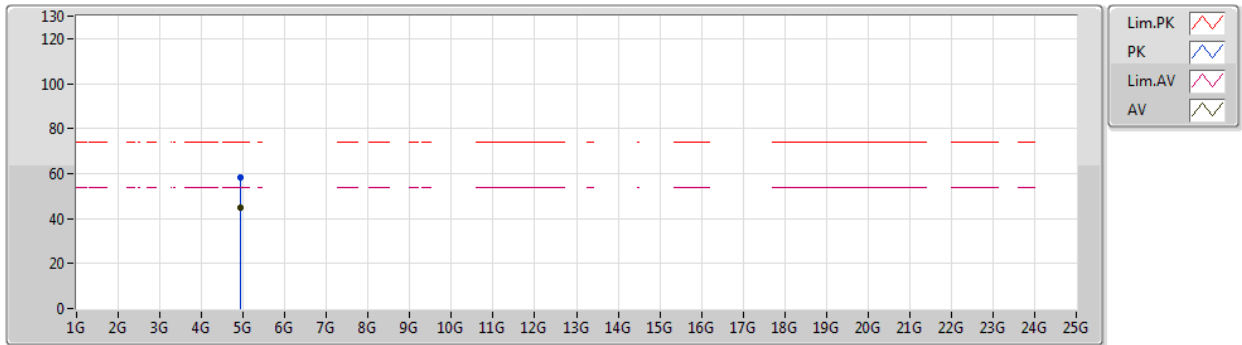


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9261G	40.70	54.00	-13.30	3.94	3	Vertical	202	2.96	-	36.76	31.57	6.82	34.45
PK	4.9258G	54.17	74.00	-19.83	3.94	3	Vertical	202	2.96	-	50.23	31.57	6.82	34.45

802.11g_Nss1,(6Mbps)_2TX

18/08/2019

2462MHz_TX

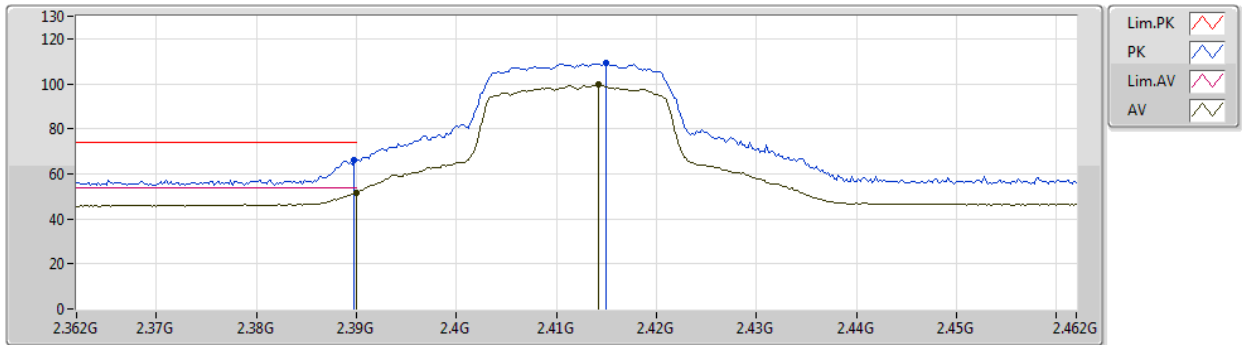


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.9259G	44.97	54.00	-9.03	3.94	3	Horizontal	101	2.34	-	41.03	31.57	6.82	34.45
PK	4.9258G	58.37	74.00	-15.63	3.94	3	Horizontal	101	2.34	-	54.43	31.57	6.82	34.45

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2412MHz_TX

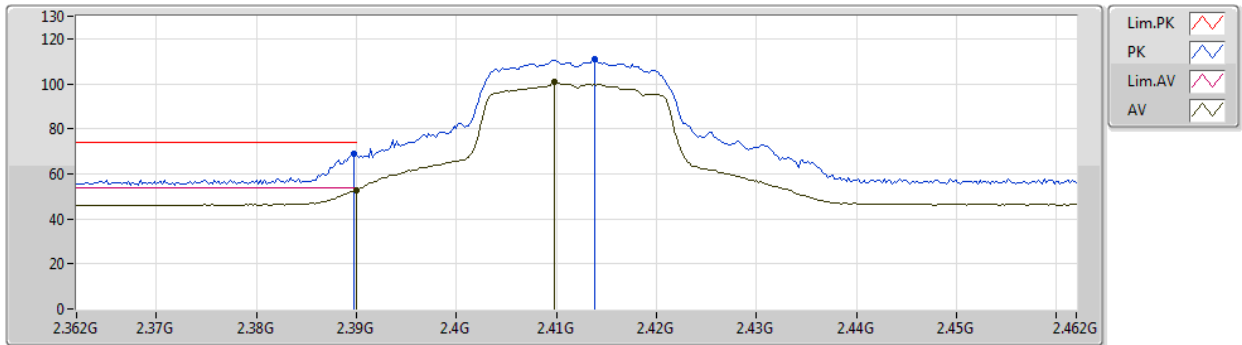


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	51.49	54.00	-2.51	32.09	3	Vertical	172	2.90	-	19.40	27.37	4.72	-
AV	2.4142G	99.50	Inf	-Inf	32.19	3	Vertical	172	2.90	-	67.31	27.44	4.75	-
PK	2.3898G	66.06	74.00	-7.94	32.09	3	Vertical	172	2.90	-	33.97	27.37	4.72	-
PK	2.415G	109.26	Inf	-Inf	32.20	3	Vertical	172	2.90	-	77.06	27.45	4.75	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2412MHz_TX

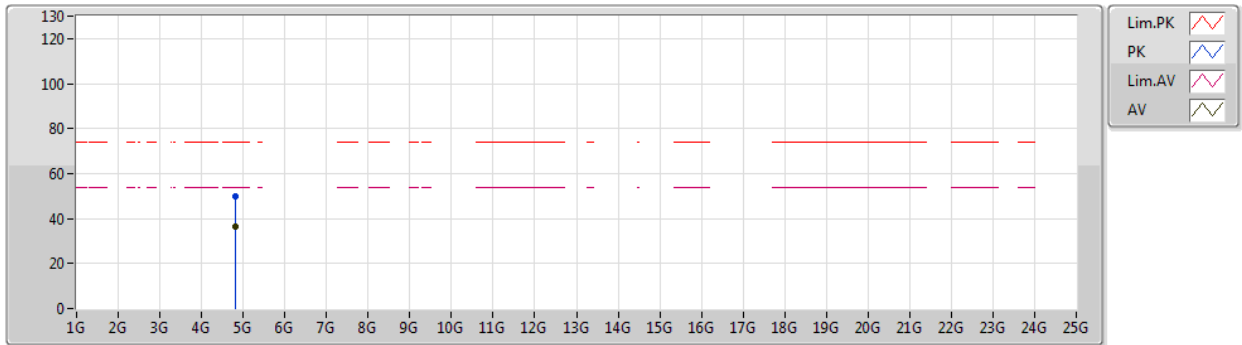


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	52.93	54.00	-1.07	32.09	3	Horizontal	131	1.00	-	20.84	27.37	4.72	-
AV	2.4098G	100.71	Inf	-Inf	32.17	3	Horizontal	131	1.00	-	68.54	27.43	4.74	-
PK	2.3898G	68.77	74.00	-5.23	32.09	3	Horizontal	131	1.00	-	36.68	27.37	4.72	-
PK	2.4138G	111.07	Inf	-Inf	32.19	3	Horizontal	131	1.00	-	78.88	27.44	4.75	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2412MHz_TX

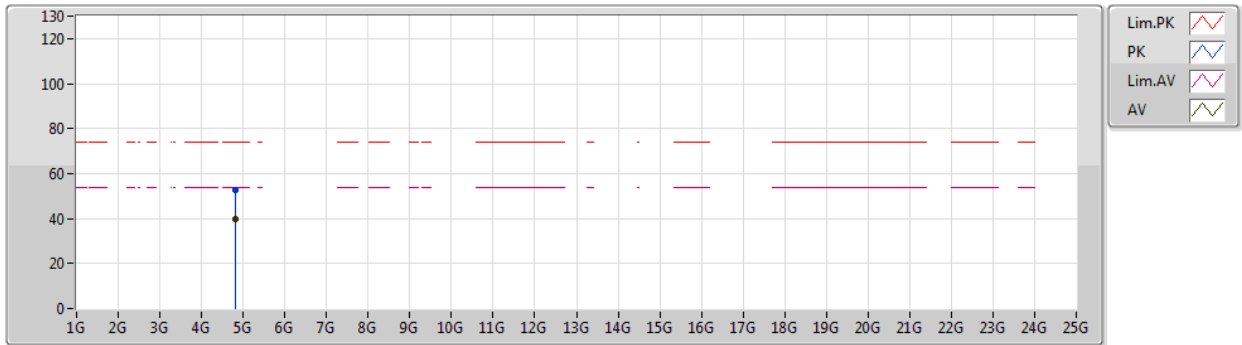


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82258G	36.55	54.00	-17.45	3.69	3	Vertical	285	1.30	-	32.86	31.38	6.79	34.48
PK	4.8238G	49.95	74.00	-24.05	3.69	3	Vertical	285	1.30	-	46.26	31.38	6.79	34.48

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2412MHz_TX

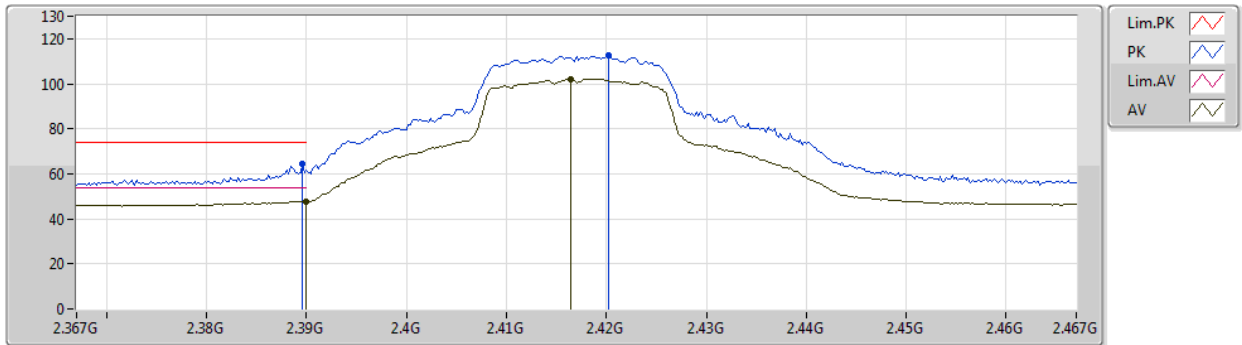


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.82528G	39.64	54.00	-14.36	3.70	3	Horizontal	100	3.00	-	35.94	31.39	6.79	34.48
PK	4.82368G	52.82	74.00	-21.18	3.69	3	Horizontal	100	3.00	-	49.13	31.38	6.79	34.48

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2417MHz_TX

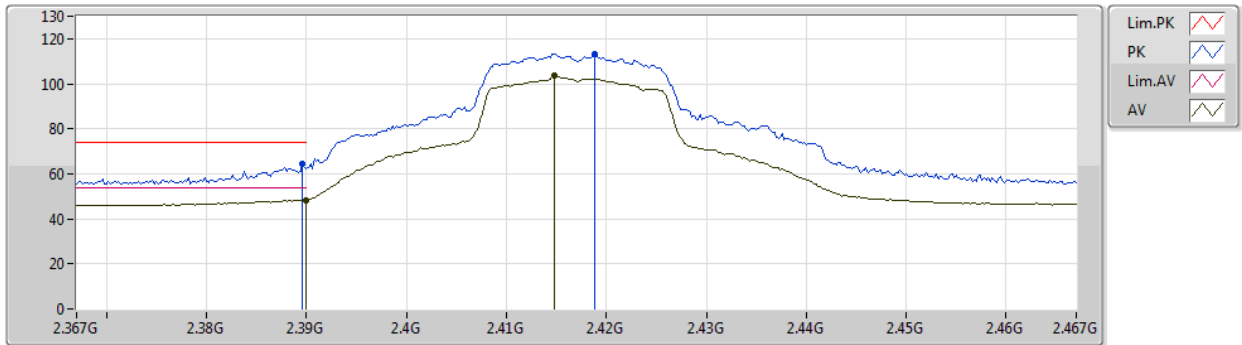


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	47.68	54.00	-6.32	32.09	3	Vertical	177	2.63	-	15.59	27.37	4.72	-
AV	2.4164G	102.20	Inf	-Inf	32.20	3	Vertical	177	2.63	-	70.00	27.45	4.75	-
PK	2.3896G	64.67	74.00	-9.33	32.09	3	Vertical	177	2.63	-	32.58	27.37	4.72	-
PK	2.4202G	112.48	Inf	-Inf	32.21	3	Vertical	177	2.63	-	80.27	27.46	4.75	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2417MHz_TX

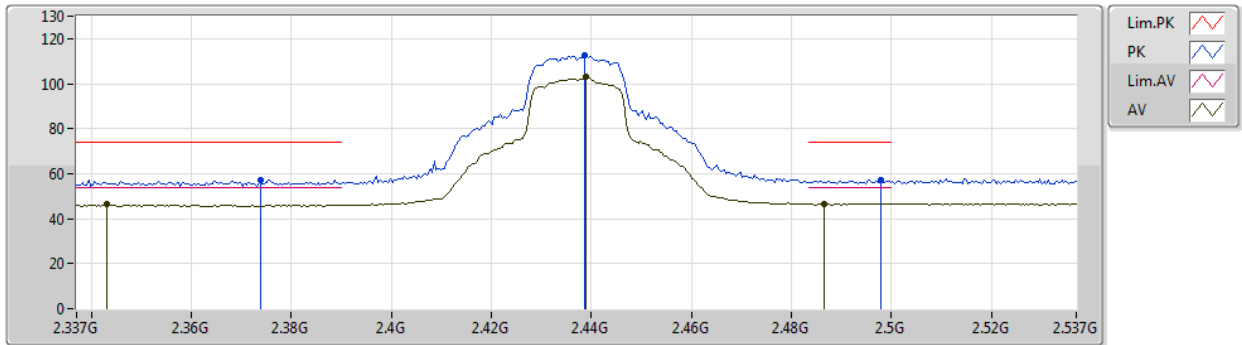


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	48.41	54.00	-5.59	32.09	3	Horizontal	131	1.01	-	16.32	27.37	4.72	-
AV	2.4148G	103.59	Inf	-Inf	32.19	3	Horizontal	131	1.01	-	71.40	27.44	4.75	-
PK	2.3896G	64.24	74.00	-9.76	32.09	3	Horizontal	131	1.01	-	32.15	27.37	4.72	-
PK	2.4188G	113.26	Inf	-Inf	32.21	3	Horizontal	131	1.01	-	81.05	27.46	4.75	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2437MHz_TX

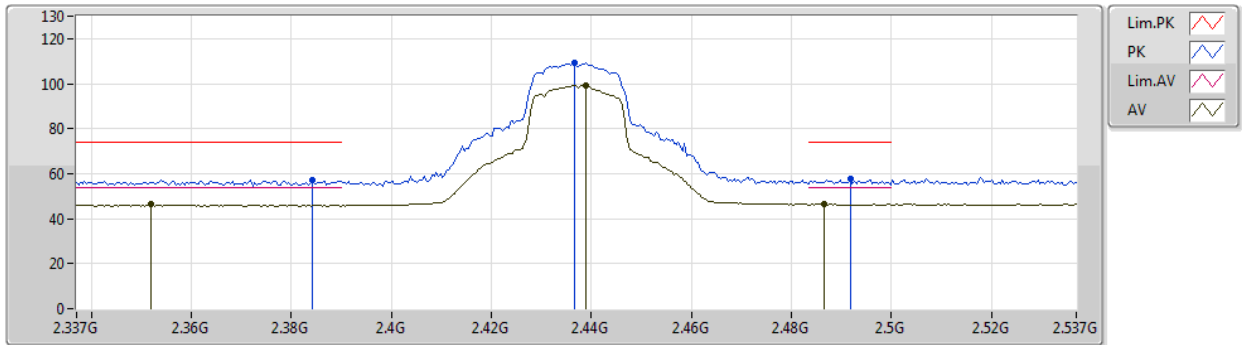


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.343G	46.26	54.00	-7.74	31.89	3	Vertical	32	2.90	-	14.37	27.23	4.66	-
AV	2.439G	102.92	Inf	-Inf	32.30	3	Vertical	32	2.90	-	70.62	27.52	4.78	-
AV	2.4866G	46.41	54.00	-7.59	32.49	3	Vertical	32	2.90	-	13.92	27.66	4.83	-
PK	2.3738G	57.30	74.00	-16.70	32.02	3	Vertical	32	2.90	-	25.28	27.32	4.70	-
PK	2.4386G	112.48	Inf	-Inf	32.30	3	Vertical	32	2.90	-	80.18	27.52	4.78	-
PK	2.4978G	57.08	74.00	-16.92	32.53	3	Vertical	32	2.90	-	24.55	27.69	4.84	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2437MHz_TX

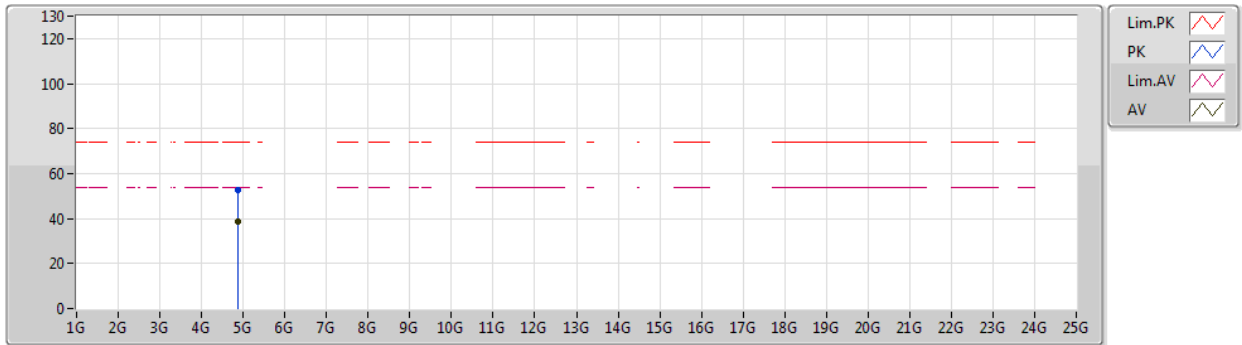


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3518G	46.35	54.00	-7.65	31.93	3	Horizontal	29	1.40	-	14.42	27.26	4.67	-
AV	2.439G	99.45	Inf	-Inf	32.30	3	Horizontal	29	1.40	-	67.15	27.52	4.78	-
AV	2.4866G	46.54	54.00	-7.46	32.49	3	Horizontal	29	1.40	-	14.05	27.66	4.83	-
PK	2.3842G	57.24	74.00	-16.76	32.06	3	Horizontal	29	1.40	-	25.18	27.35	4.71	-
PK	2.4366G	109.09	Inf	-Inf	32.28	3	Horizontal	29	1.40	-	76.81	27.51	4.77	-
PK	2.4918G	57.70	74.00	-16.30	32.52	3	Horizontal	29	1.40	-	25.18	27.68	4.84	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2437MHz_TX

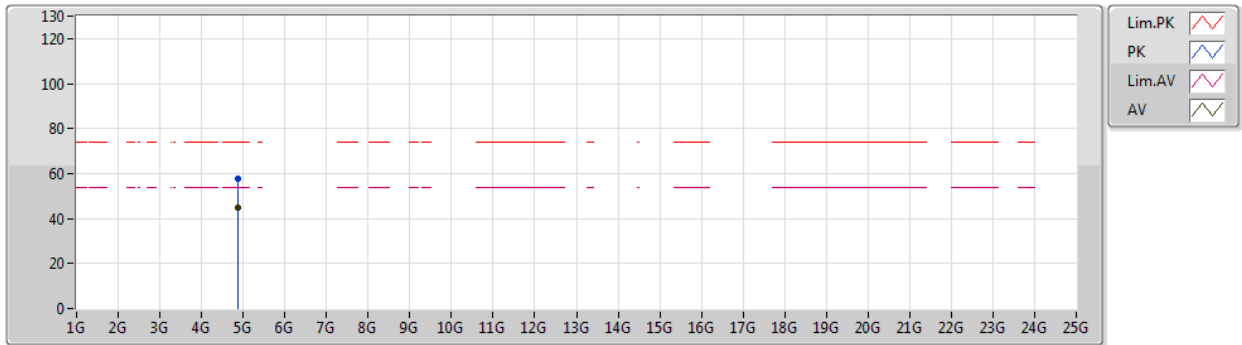


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.86988G	38.43	54.00	-15.57	3.81	3	Vertical	283	1.48	-	34.62	31.47	6.81	34.47
PK	4.87032G	52.73	74.00	-21.27	3.81	3	Vertical	283	1.48	-	48.92	31.47	6.81	34.47

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2437MHz_TX

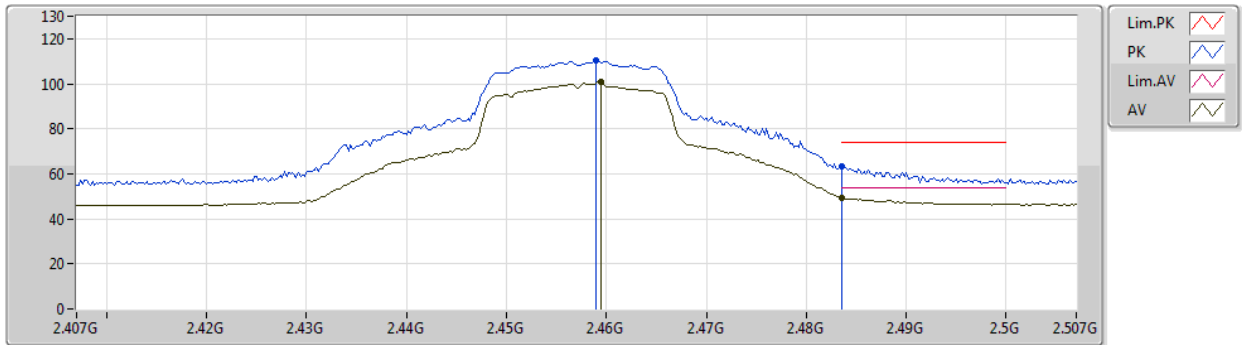


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87278G	45.06	54.00	-8.94	3.81	3	Horizontal	100	1.00	-	41.25	31.47	6.81	34.47
PK	4.87386G	57.82	74.00	-16.18	3.81	3	Horizontal	100	1.00	-	54.01	31.47	6.81	34.47

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2457MHz_TX

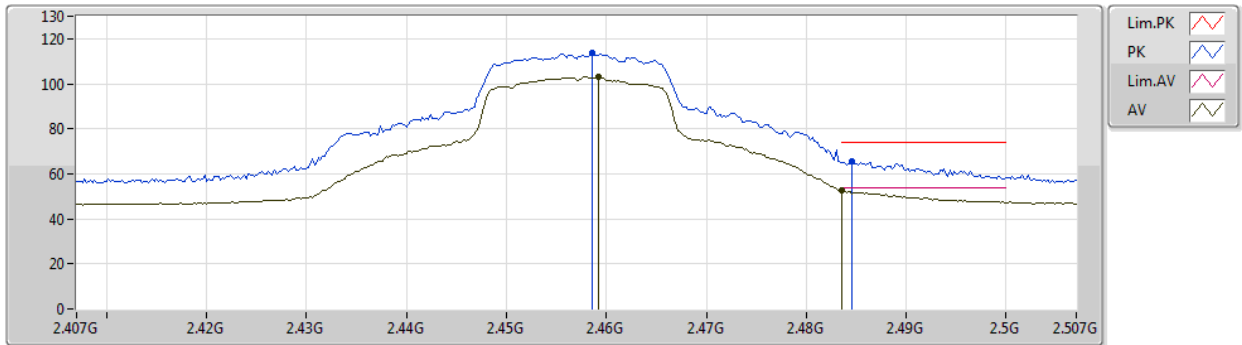


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4594G	100.70	Inf	-Inf	32.38	3	Vertical	77	1.95	-	68.32	27.58	4.80	-
AV	2.4835G	49.17	54.00	-4.83	32.48	3	Vertical	77	1.95	-	16.69	27.65	4.83	-
PK	2.459G	110.30	Inf	-Inf	32.38	3	Vertical	77	1.95	-	77.92	27.58	4.80	-
PK	2.4835G	63.41	74.00	-10.59	32.48	3	Vertical	77	1.95	-	30.93	27.65	4.83	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2457MHz_TX

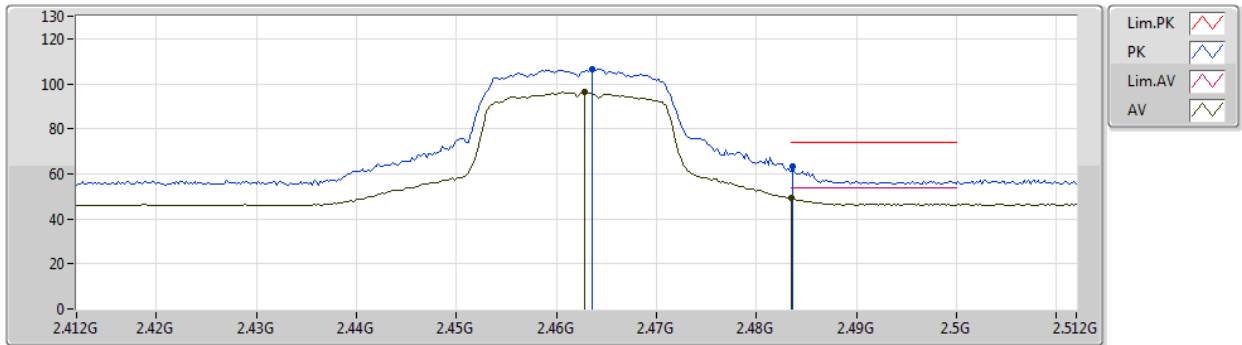


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4592G	103.35	Inf	-Inf	32.38	3	Horizontal	339	2.23	-	70.97	27.58	4.80	-
AV	2.4835G	52.54	54.00	-1.46	32.48	3	Horizontal	339	2.23	-	20.06	27.65	4.83	-
PK	2.4586G	113.60	Inf	-Inf	32.38	3	Horizontal	339	2.23	-	81.22	27.58	4.80	-
PK	2.4846G	65.30	74.00	-8.70	32.48	3	Horizontal	339	2.23	-	32.82	27.65	4.83	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2462MHz_TX

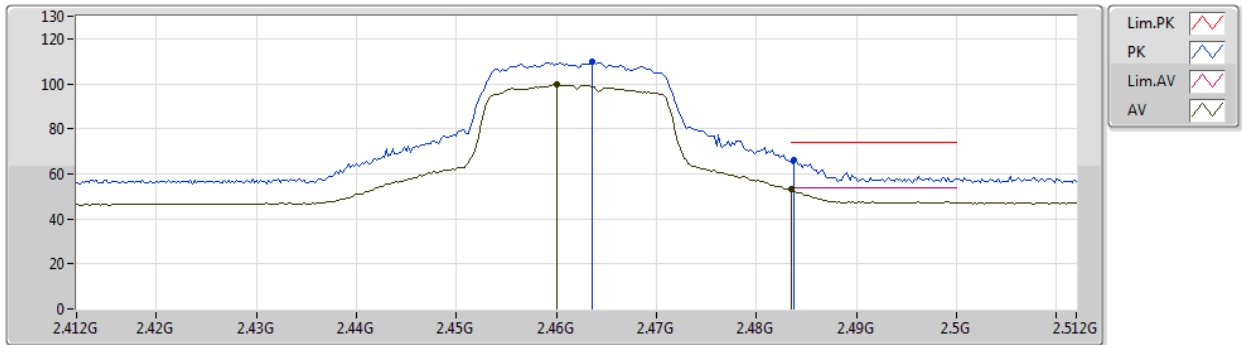


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4628G	96.21	Inf	-Inf	32.39	3	Vertical	77	1.96	-	63.82	27.59	4.80	-
AV	2.4835G	49.39	54.00	-4.61	32.48	3	Vertical	77	1.96	-	16.91	27.65	4.83	-
PK	2.4636G	106.52	Inf	-Inf	32.39	3	Vertical	77	1.96	-	74.13	27.59	4.80	-
PK	2.4836G	63.26	74.00	-10.74	32.48	3	Vertical	77	1.96	-	30.78	27.65	4.83	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2462MHz_TX

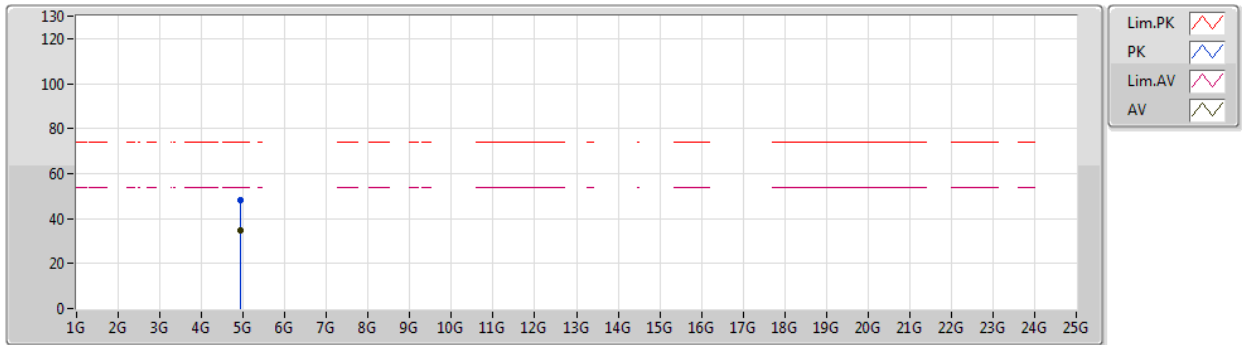


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.46G	99.57	Inf	-Inf	32.38	3	Horizontal	338	2.85	-	67.19	27.58	4.80	-
AV	2.4835G	52.98	54.00	-1.02	32.48	3	Horizontal	338	2.85	-	20.50	27.65	4.83	-
PK	2.4636G	109.83	Inf	-Inf	32.39	3	Horizontal	338	2.85	-	77.44	27.59	4.80	-
PK	2.4838G	66.38	74.00	-7.62	32.48	3	Horizontal	338	2.85	-	33.90	27.65	4.83	-

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2462MHz_TX

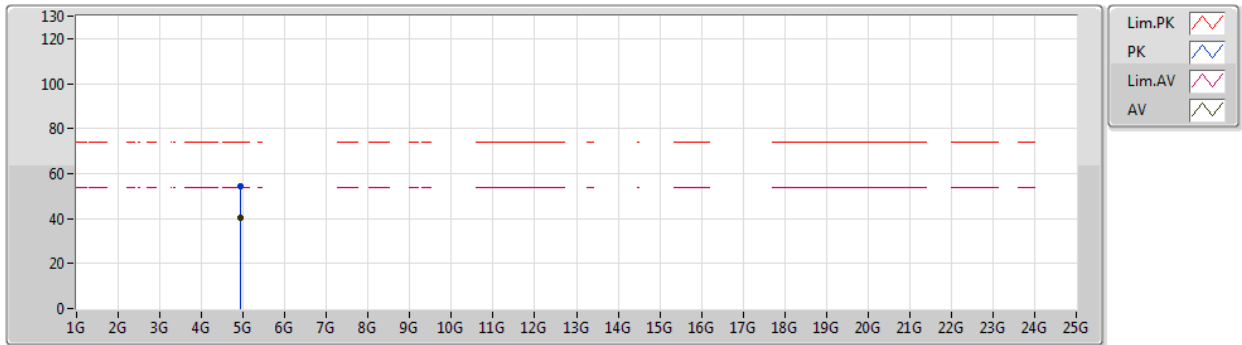


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92518G	34.82	54.00	-19.18	3.94	3	Vertical	275	1.28	-	30.88	31.57	6.82	34.45
PK	4.9202G	48.00	74.00	-26.00	3.93	3	Vertical	275	1.28	-	44.07	31.56	6.82	34.45

VHT20_Nss1,(MCS0)_2TX

18/08/2019

2462MHz_TX

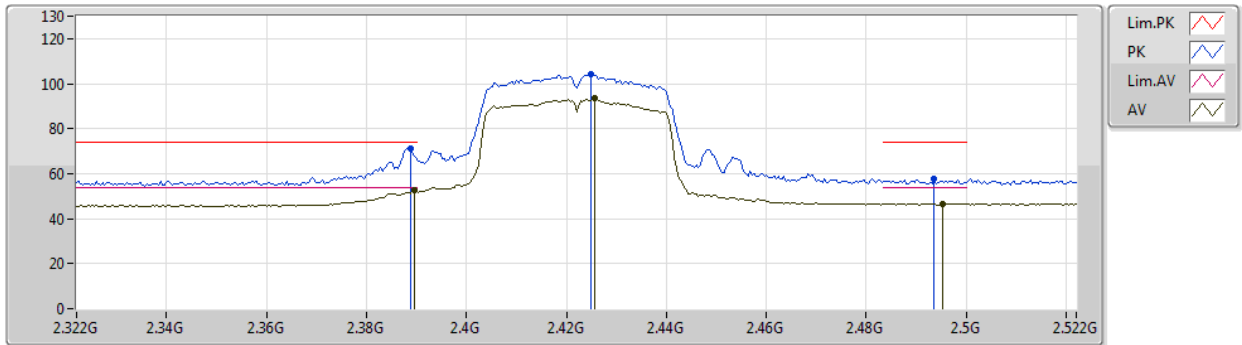


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.92242G	40.61	54.00	-13.39	3.93	3	Horizontal	101	2.61	-	36.68	31.56	6.82	34.45
PK	4.92428G	54.58	74.00	-19.42	3.93	3	Horizontal	101	2.61	-	50.65	31.56	6.82	34.45

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2422MHz_TX

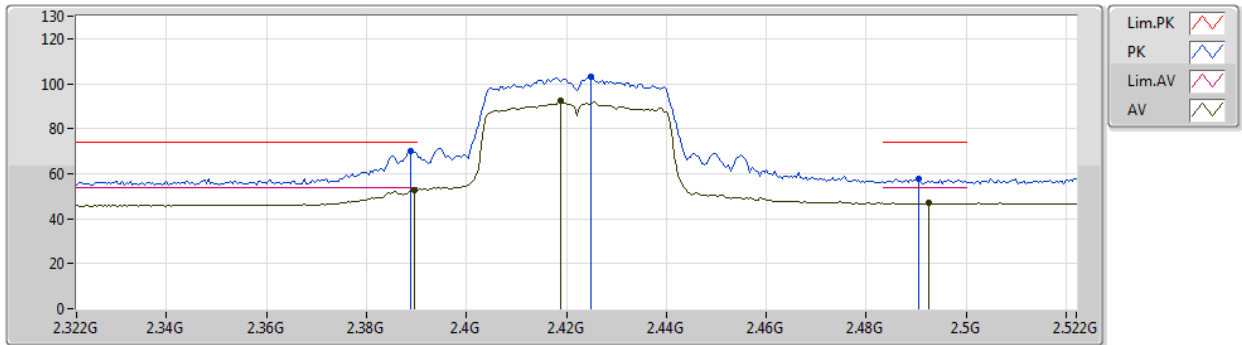


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	52.54	54.00	-1.46	32.09	3	Vertical	32	3.00	-	20.45	27.37	4.72	-
AV	2.4256G	93.81	Inf	-Inf	32.24	3	Vertical	32	3.00	-	61.57	27.48	4.76	-
AV	2.4952G	46.66	54.00	-7.34	32.53	3	Vertical	32	3.00	-	14.13	27.69	4.84	-
PK	2.3888G	71.30	74.00	-2.70	32.09	3	Vertical	32	3.00	-	39.21	27.37	4.72	-
PK	2.4248G	104.24	Inf	-Inf	32.23	3	Vertical	32	3.00	-	72.01	27.47	4.76	-
PK	2.4936G	57.67	74.00	-16.33	32.52	3	Vertical	32	3.00	-	25.15	27.68	4.84	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2422MHz_TX

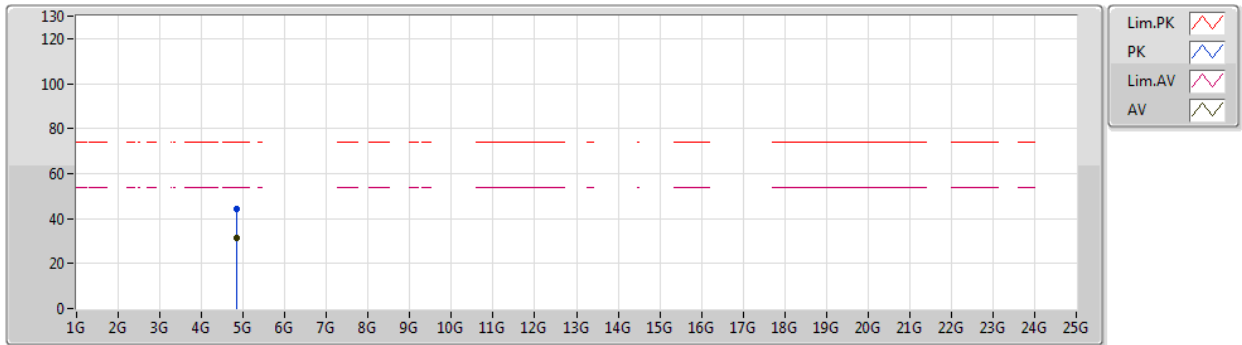


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	52.89	54.00	-1.11	32.09	3	Horizontal	322	1.11	-	20.80	27.37	4.72	-
AV	2.4188G	92.20	Inf	-Inf	32.21	3	Horizontal	322	1.11	-	59.99	27.46	4.75	-
AV	2.4924G	46.81	54.00	-7.19	32.52	3	Horizontal	322	1.11	-	14.29	27.68	4.84	-
PK	2.3888G	70.06	74.00	-3.94	32.09	3	Horizontal	322	1.11	-	37.97	27.37	4.72	-
PK	2.4248G	102.83	Inf	-Inf	32.23	3	Horizontal	322	1.11	-	70.60	27.47	4.76	-
PK	2.4904G	57.61	74.00	-16.39	32.51	3	Horizontal	322	1.11	-	25.10	27.67	4.84	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2422MHz_TX

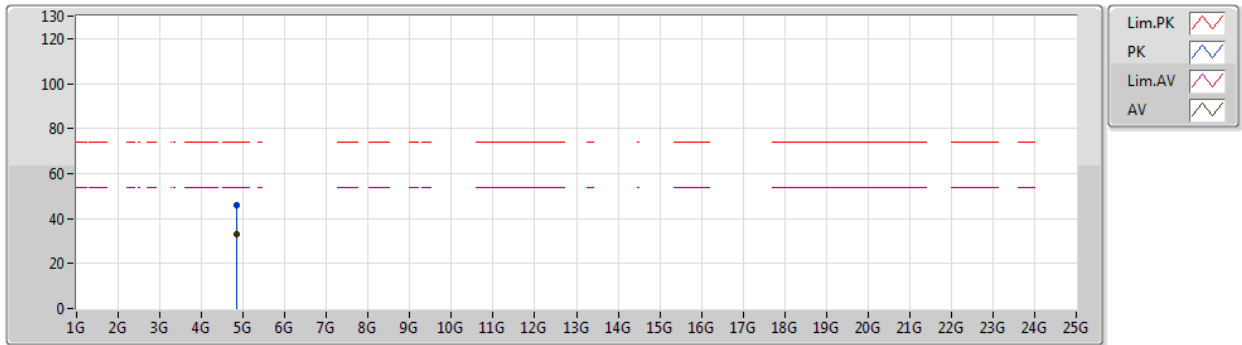


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84642G	31.38	54.00	-22.62	3.74	3	Vertical	281	1.40	-	27.64	31.42	6.80	34.48
PK	4.84276G	44.08	74.00	-29.92	3.74	3	Vertical	281	1.40	-	40.34	31.42	6.80	34.48

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2422MHz_TX

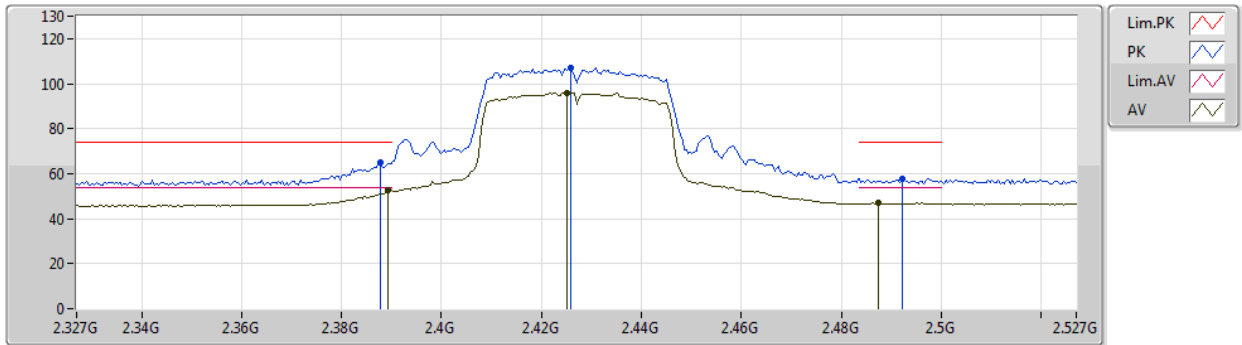


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.84512G	33.26	54.00	-20.74	3.74	3	Horizontal	100	1.04	-	29.52	31.42	6.80	34.48
PK	4.84824G	45.92	74.00	-28.08	3.75	3	Horizontal	100	1.04	-	42.17	31.43	6.80	34.48

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2427MHz_TX

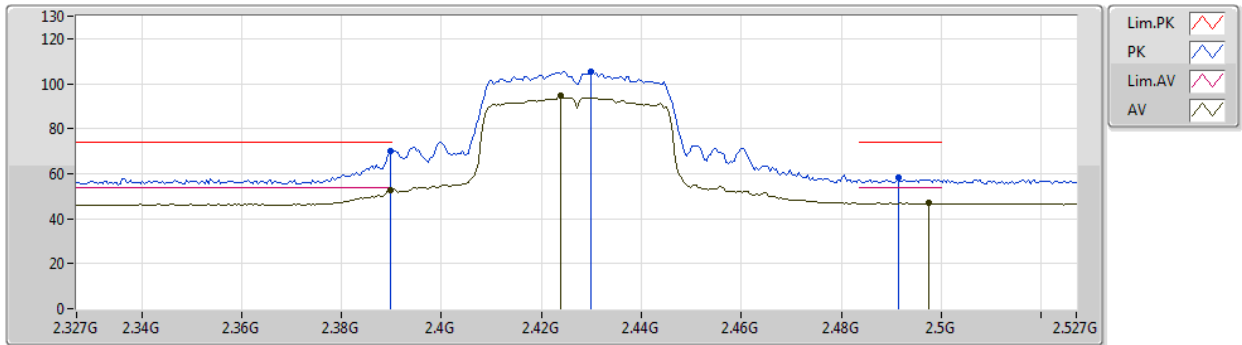


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3894G	52.64	54.00	-1.36	32.09	3	Vertical	15	3.00	-	20.55	27.37	4.72	-
AV	2.425G	96.07	Inf	-Inf	32.23	3	Vertical	15	3.00	-	63.84	27.47	4.76	-
AV	2.4874G	46.90	54.00	-7.10	32.49	3	Vertical	15	3.00	-	14.41	27.66	4.83	-
PK	2.3878G	64.73	74.00	-9.27	32.08	3	Vertical	15	3.00	-	32.65	27.36	4.72	-
PK	2.4258G	106.91	Inf	-Inf	32.24	3	Vertical	15	3.00	-	74.67	27.48	4.76	-
PK	2.4922G	57.86	74.00	-16.14	32.52	3	Vertical	15	3.00	-	25.34	27.68	4.84	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2427MHz_TX

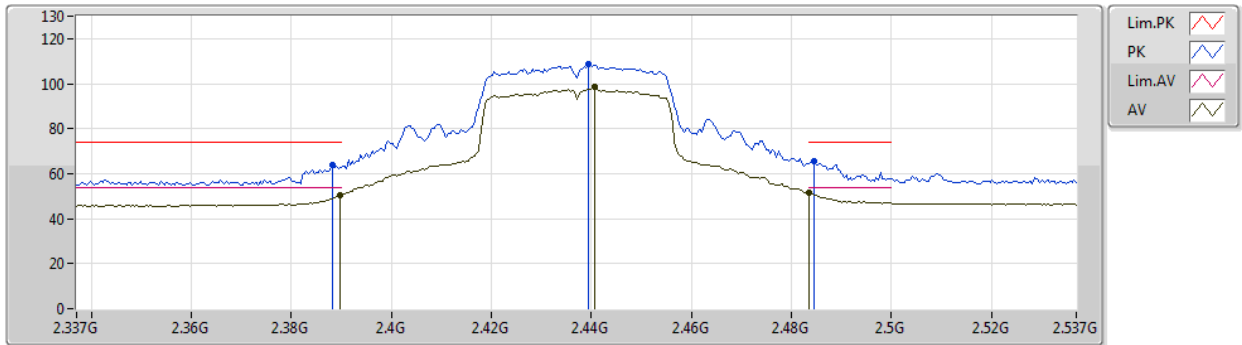


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.56	54.00	-1.44	32.09	3	Horizontal	326	1.50	-	20.47	27.37	4.72	-
AV	2.4238G	94.52	Inf	-Inf	32.23	3	Horizontal	326	1.50	-	62.29	27.47	4.76	-
AV	2.4974G	46.99	54.00	-7.01	32.53	3	Horizontal	326	1.50	-	14.46	27.69	4.84	-
PK	2.3898G	69.98	74.00	-4.02	32.09	3	Horizontal	326	1.50	-	37.89	27.37	4.72	-
PK	2.4298G	105.28	Inf	-Inf	32.25	3	Horizontal	326	1.50	-	73.03	27.49	4.76	-
PK	2.4914G	58.06	74.00	-15.94	32.51	3	Horizontal	326	1.50	-	25.55	27.67	4.84	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2437MHz_TX

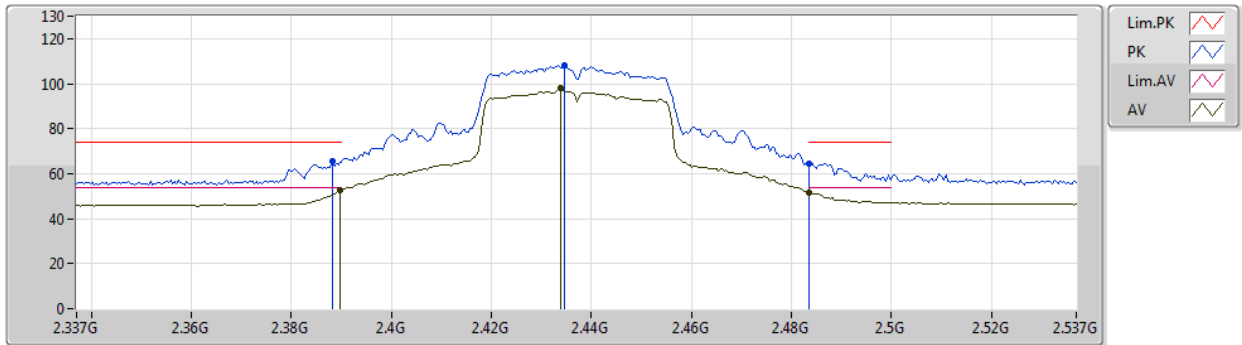


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	50.21	54.00	-3.79	32.09	3	Vertical	29	2.86	-	18.12	27.37	4.72	-
AV	2.4406G	98.35	Inf	-Inf	32.30	3	Vertical	29	2.86	-	66.05	27.52	4.78	-
AV	2.4835G	51.44	54.00	-2.56	32.48	3	Vertical	29	2.86	-	18.96	27.65	4.83	-
PK	2.3882G	63.94	74.00	-10.06	32.08	3	Vertical	29	2.86	-	31.86	27.36	4.72	-
PK	2.4394G	108.78	Inf	-Inf	32.30	3	Vertical	29	2.86	-	76.48	27.52	4.78	-
PK	2.4846G	65.38	74.00	-8.62	32.48	3	Vertical	29	2.86	-	32.90	27.65	4.83	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2437MHz_TX

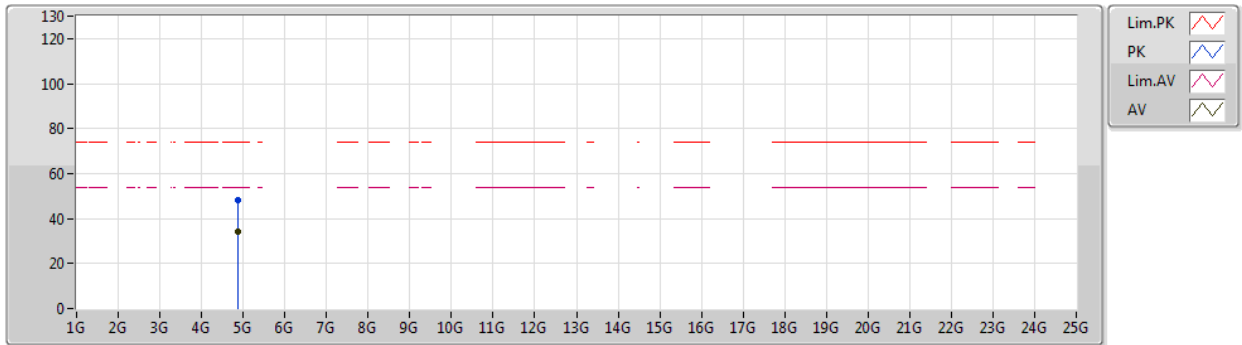


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.56	54.00	-1.44	32.09	3	Horizontal	323	1.49	-	20.47	27.37	4.72	-
AV	2.4338G	97.98	Inf	-Inf	32.27	3	Horizontal	323	1.49	-	65.71	27.50	4.77	-
AV	2.4835G	51.50	54.00	-2.50	32.48	3	Horizontal	323	1.49	-	19.02	27.65	4.83	-
PK	2.3882G	65.63	74.00	-8.37	32.08	3	Horizontal	323	1.49	-	33.55	27.36	4.72	-
PK	2.4346G	108.21	Inf	-Inf	32.27	3	Horizontal	323	1.49	-	75.94	27.50	4.77	-
PK	2.4835G	64.70	74.00	-9.30	32.48	3	Horizontal	323	1.49	-	32.22	27.65	4.83	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2437MHz_TX

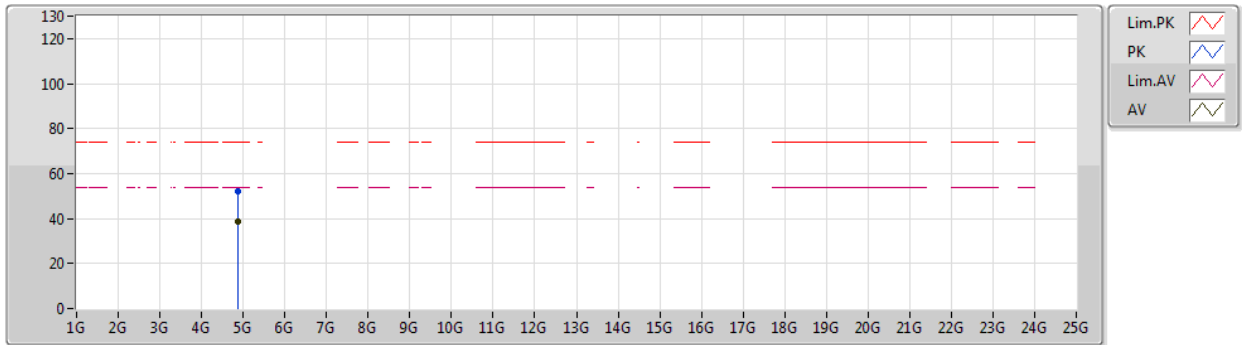


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87056G	34.42	54.00	-19.58	3.81	3	Vertical	283	1.50	-	30.61	31.47	6.81	34.47
PK	4.8707G	48.24	74.00	-25.76	3.81	3	Vertical	283	1.50	-	44.43	31.47	6.81	34.47

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2437MHz_TX

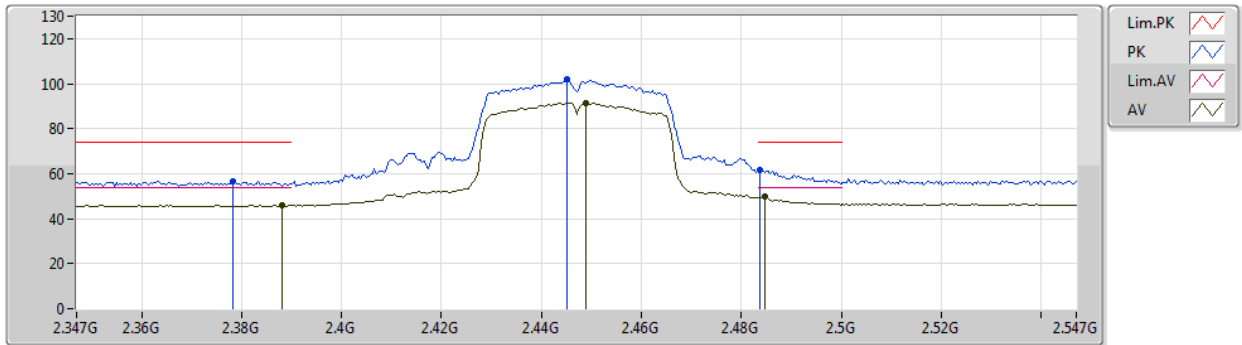


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.87636G	38.77	54.00	-15.23	3.82	3	Horizontal	99	1.00	-	34.95	31.48	6.81	34.47
PK	4.87064G	51.92	74.00	-22.08	3.81	3	Horizontal	99	1.00	-	48.11	31.47	6.81	34.47

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2447MHz_TX

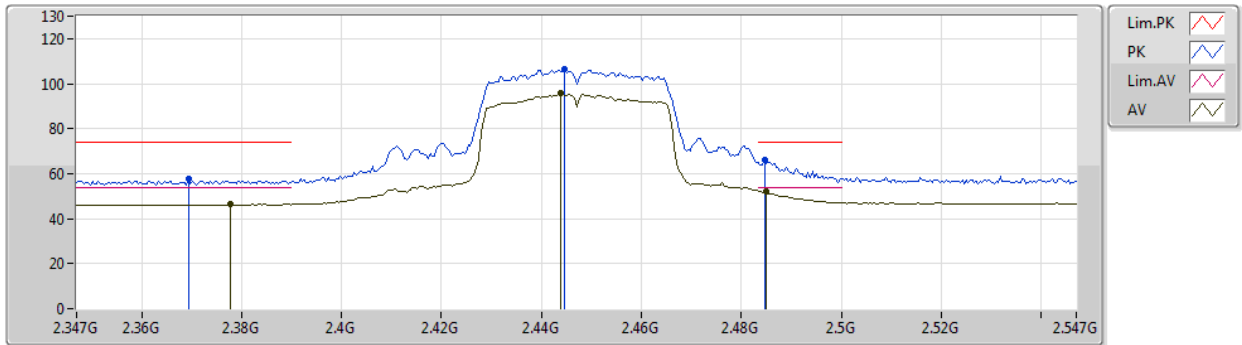


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	45.80	54.00	-8.20	32.08	3	Vertical	319	1.87	-	13.72	27.36	4.72	-
AV	2.449G	91.54	Inf	-Inf	32.34	3	Vertical	319	1.87	-	59.20	27.55	4.79	-
AV	2.4846G	49.77	54.00	-4.23	32.48	3	Vertical	319	1.87	-	17.29	27.65	4.83	-
PK	2.3782G	56.61	74.00	-17.39	32.03	3	Vertical	319	1.87	-	24.58	27.33	4.70	-
PK	2.445G	101.74	Inf	-Inf	32.32	3	Vertical	319	1.87	-	69.42	27.54	4.78	-
PK	2.4838G	61.62	74.00	-12.38	32.48	3	Vertical	319	1.87	-	29.14	27.65	4.83	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2447MHz_TX

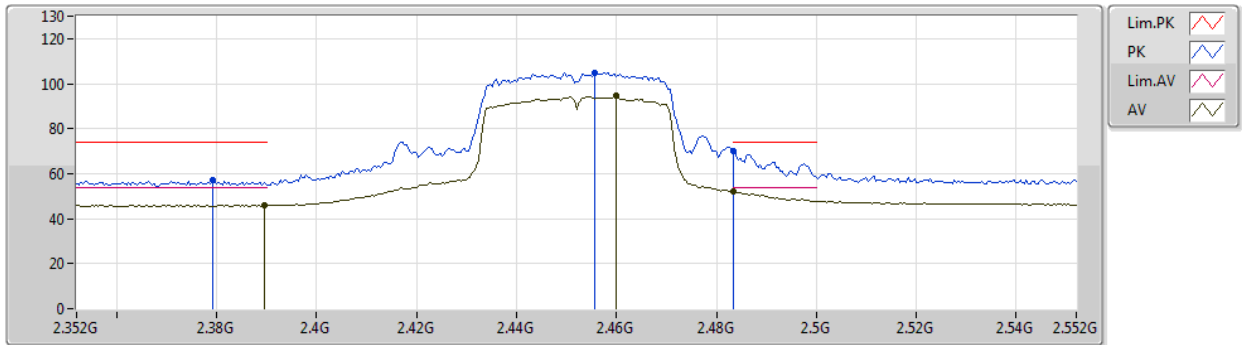


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3778G	46.38	54.00	-7.62	32.03	3	Horizontal	333	2.06	-	14.35	27.33	4.70	-
AV	2.4438G	95.67	Inf	-Inf	32.31	3	Horizontal	333	2.06	-	63.36	27.53	4.78	-
AV	2.485G	52.33	54.00	-1.67	32.48	3	Horizontal	333	2.06	-	19.85	27.65	4.83	-
PK	2.3694G	57.66	74.00	-16.34	32.00	3	Horizontal	333	2.06	-	25.66	27.31	4.69	-
PK	2.4446G	106.42	Inf	-Inf	32.31	3	Horizontal	333	2.06	-	74.11	27.53	4.78	-
PK	2.4846G	66.28	74.00	-7.72	32.48	3	Horizontal	333	2.06	-	33.80	27.65	4.83	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2452MHz_TX

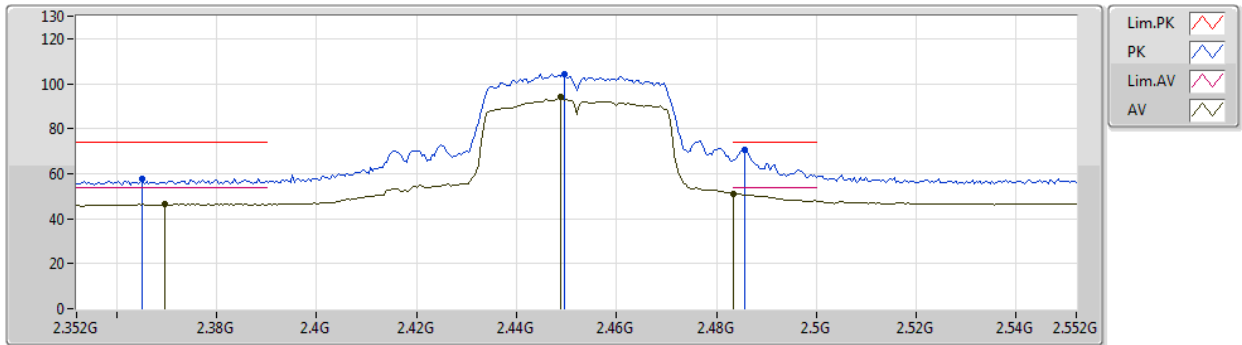


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3896G	46.00	54.00	-8.00	32.09	3	Vertical	9	2.92	-	13.91	27.37	4.72	-
AV	2.46G	94.43	Inf	-Inf	32.38	3	Vertical	9	2.92	-	62.05	27.58	4.80	-
AV	2.4835G	52.19	54.00	-1.81	32.48	3	Vertical	9	2.92	-	19.71	27.65	4.83	-
PK	2.3792G	57.08	74.00	-16.92	32.05	3	Vertical	9	2.92	-	25.03	27.34	4.71	-
PK	2.4556G	104.96	Inf	-Inf	32.37	3	Vertical	9	2.92	-	72.59	27.57	4.80	-
PK	2.4835G	70.04	74.00	-3.96	32.48	3	Vertical	9	2.92	-	37.56	27.65	4.83	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2452MHz_TX

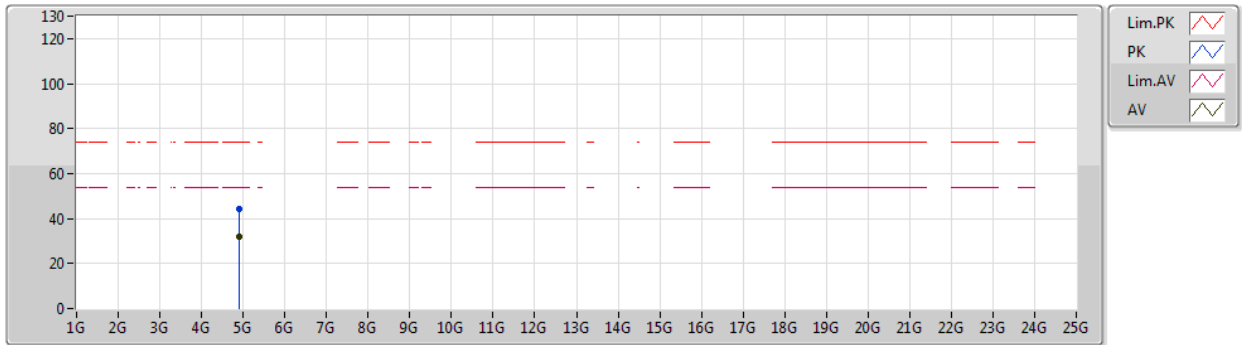


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3696G	46.54	54.00	-7.46	32.00	3	Horizontal	332	2.07	-	14.54	27.31	4.69	-
AV	2.4488G	93.94	Inf	-Inf	32.34	3	Horizontal	332	2.07	-	61.60	27.55	4.79	-
AV	2.4835G	51.09	54.00	-2.91	32.48	3	Horizontal	332	2.07	-	18.61	27.65	4.83	-
PK	2.3652G	57.68	74.00	-16.32	31.99	3	Horizontal	332	2.07	-	25.69	27.30	4.69	-
PK	2.4496G	104.32	Inf	-Inf	32.34	3	Horizontal	332	2.07	-	71.98	27.55	4.79	-
PK	2.4856G	70.36	74.00	-3.64	32.49	3	Horizontal	332	2.07	-	37.87	27.66	4.83	-

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2452MHz_TX

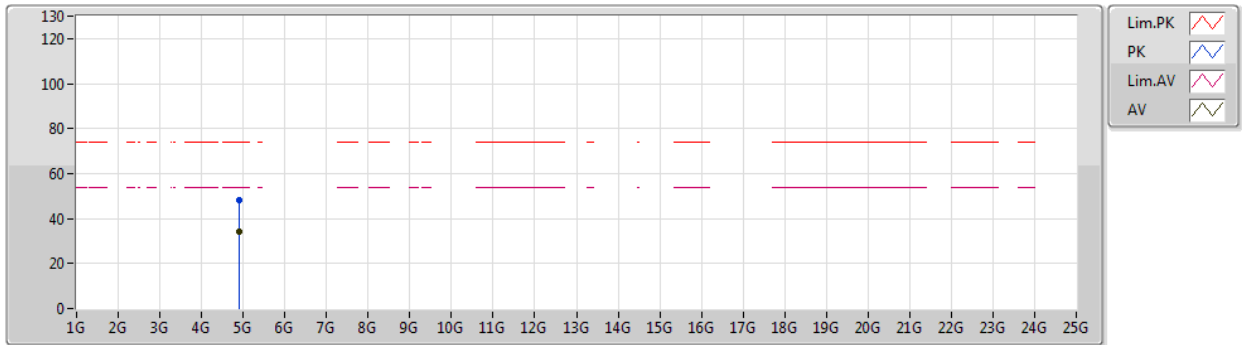


Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90536G	31.96	54.00	-22.04	3.89	3	Vertical	278	1.61	-	28.07	31.53	6.82	34.46
PK	4.9053G	44.52	74.00	-29.48	3.89	3	Vertical	278	1.61	-	40.63	31.53	6.82	34.46

VHT40_Nss1,(MCS0)_2TX

18/08/2019

2452MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	4.90532G	34.44	54.00	-19.56	3.89	3	Horizontal	102	1.29	-	30.55	31.53	6.82	34.46
PK	4.9053G	47.95	74.00	-26.05	3.89	3	Horizontal	102	1.29	-	44.06	31.53	6.82	34.46