



FCC Test Report

Equipment : 300Mbps Wireless N Router
Brand Name : tp-link
Model No. : TL-WR841N
FCC ID : TE7WR841NV14
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : ☒ Point-to-multipoint; ☐ Point-to-point
Applicant : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Central Science and Technology Park,Shennan Rd,
Nanshan, Shenzhen,China
Manufacturer : TP-Link Technologies Co., Ltd.
Building 24 (floors 1,3,4,5) and 28 (floors1-4)
Central Science and Technology Park,Shennan Rd,
Nanshan, Shenzhen,China

The product sample received on Nov. 28, 2017 and completely tested on Dec. 07, 2017. We, SPORTON, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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


Cliff Chang
SPORTON INTERNATIONAL INC.



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Summary of Test Result

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



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TEL : 886-3-3273456
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FCC ID: TE7WR841NV14

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40)	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	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT40	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.
- ♦ BWch is the nominal channel bandwidth.
- ♦ Nss-Min is the minimum number of spatial streams.
- ♦ Nant is the number of outputs. e.g., 2(2,3) means have 2 outputs for port 2 and port 3. 2 means have 2 outputs for port 1 and port 2.

1.1.2 Antenna Information

Ant.	Port	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	1	TP-LINK	3101501614	Dipole Ant.	N/A	3.95
2	2	TP-LINK	3101501614	Dipole Ant.	N/A	3.95

Note: The EUT has two antennas.

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

Ant. 1 (Port 1) and Ant. 2 (Port 2) can be used as transmitting/receiving antenna.

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

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.978	0.097	8.42m	300
802.11g	0.872	0.595	1.4m	1k
802.11n HT20	0.847	0.721	1.313m	1k
802.11n HT40	0.749	1.255	652.5u	3k

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter		
Beamforming Function	☐ With beamforming	☒ Without beamforming	
Test Software Version	QATool_Dbg.exe		

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
- ♦ FCC KDB 558074 D01 v04
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 412172 D01 v01r01

1.3 Testing Location Information

Testing Location			
☐	HWA YA	ADD : No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C.	
		TEL : 886-3-327-3456	FAX : 886-3-318-0055
☒	JHUBEI	ADD : No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C.	
		TEL : 886-3-656-9065	FAX : 886-3-656-9085

Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH01-CB	Paul Chan / Brian Sun	22°C / 54%	Dec. 04, 2017~ Dec. 05, 2017
Radiated	03CH01-CB	Zero Chen	22°C / 54%	Dec. 04, 2017~ Dec. 05, 2017
AC Conduction	CO01-CB	Wei Li	23°C / 65%	Dec. 07, 2017

Test site Designation No. TW0006 with FCC.

Test site registered number IC 4086D with Industry Canada.

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)	3.2 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	3.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	3.7 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	3.5 dB	Confidence levels of 95%
Conducted Emission	1.7 dB	Confidence levels of 95%
Output Power Measurement	1.33 dB	Confidence levels of 95%
Power Density Measurement	1.27 dB	Confidence levels of 95%
Bandwidth Measurement	9.74 x10 ⁻⁸	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	1E
2417MHz	1E
2437MHz	1E
2457MHz	1E
2462MHz	1E
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	19
2417MHz	1E
2422MHz	25
2437MHz	25
2452MHz	25
2457MHz	1E
2462MHz	19
802.11n HT20_Nss1,(MCS0)_2TX	-
2412MHz	13
2417MHz	1B
2422MHz	1F
2427MHz	25
2437MHz	25
2447MHz	25
2452MHz	1E
2457MHz	1C
2462MHz	14
802.11n HT40_Nss1,(MCS0)_2TX	-
2422MHz	0E
2427MHz	10
2432MHz	14
2437MHz	17
2442MHz	14
2447MHz	10
2452MHz	0E

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link

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
Operating Mode	CTX

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	Normal Link
1	Normal Link_Place EUT in Y axis
2	Normal Link_Place EUT in Z axis
For operating mode 2 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX
The EUT was performed at Z axis and Y axis position and the worst case was found at Y axis, So the measurement will follow this same test configuration.	

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Accessories				
No.	Equipment Name	Brand Name	Model Name	Rating
1	Adapter	tp-link	T090060-2B1	Input: 100-240V~50/60Hz 0.3A Output: 9V, 0.6A

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*3	DELL	E6430	DoC

For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB*2	DELL	E4300	DoC
2	NB	Apple	Mac Book	DoC

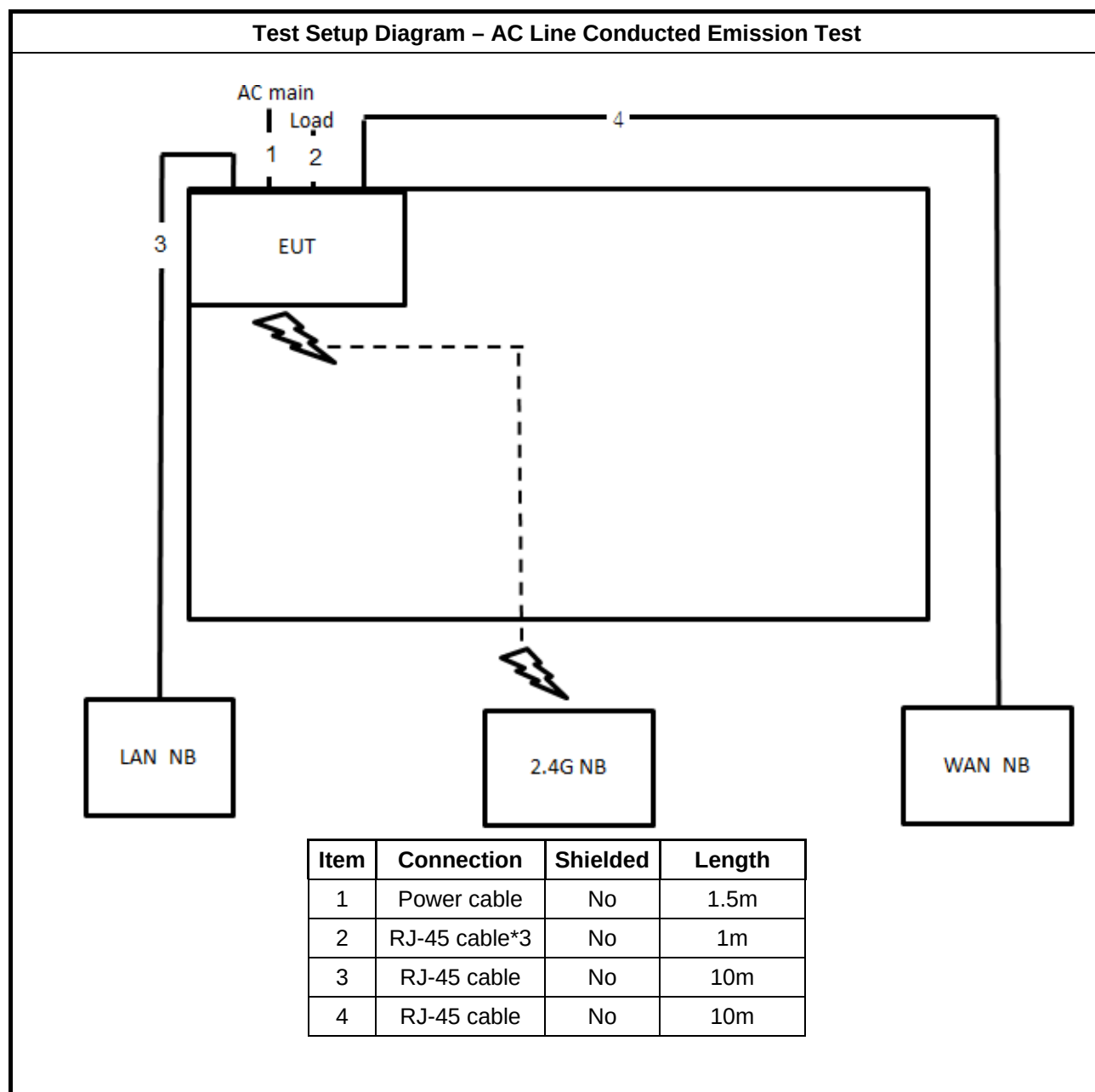
For Test Site No: 03CH01-CB (above 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

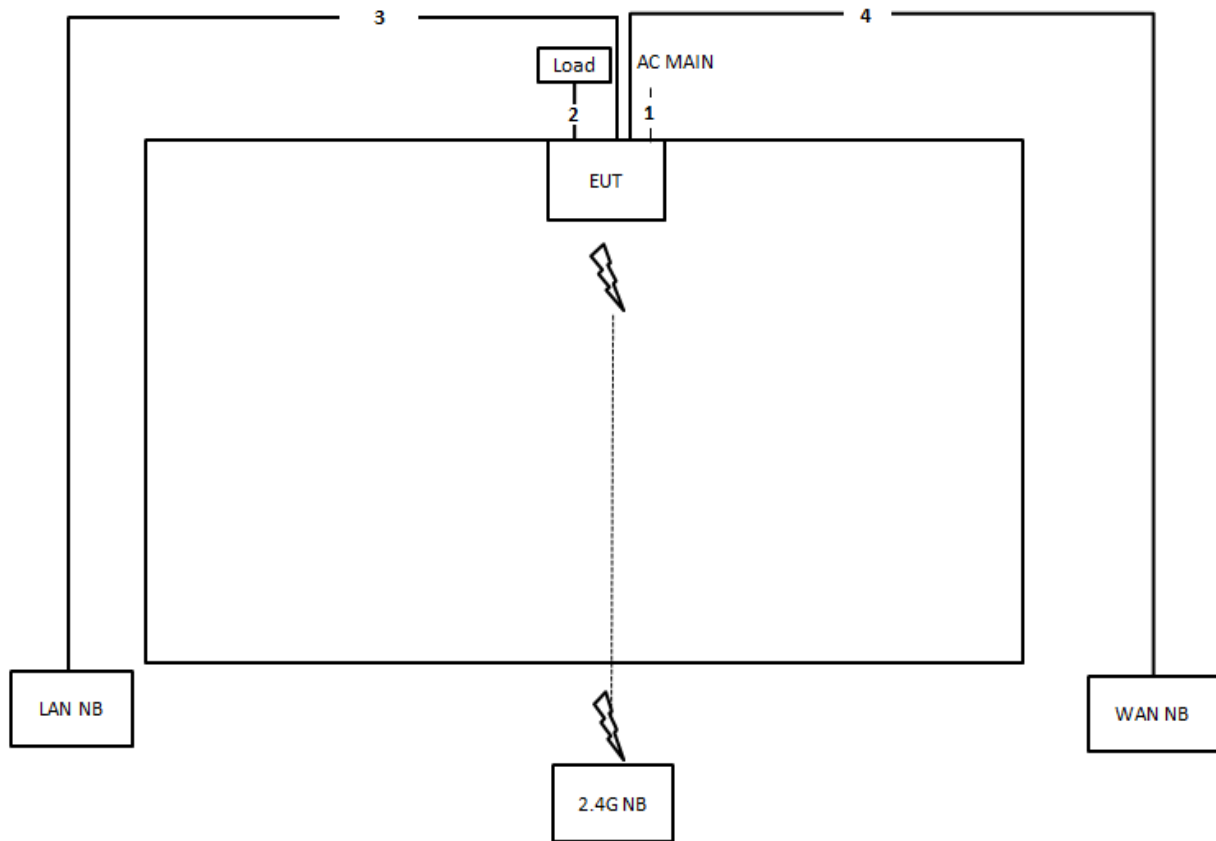
For Test Site No: TH01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC

2.6 Test Setup Diagram

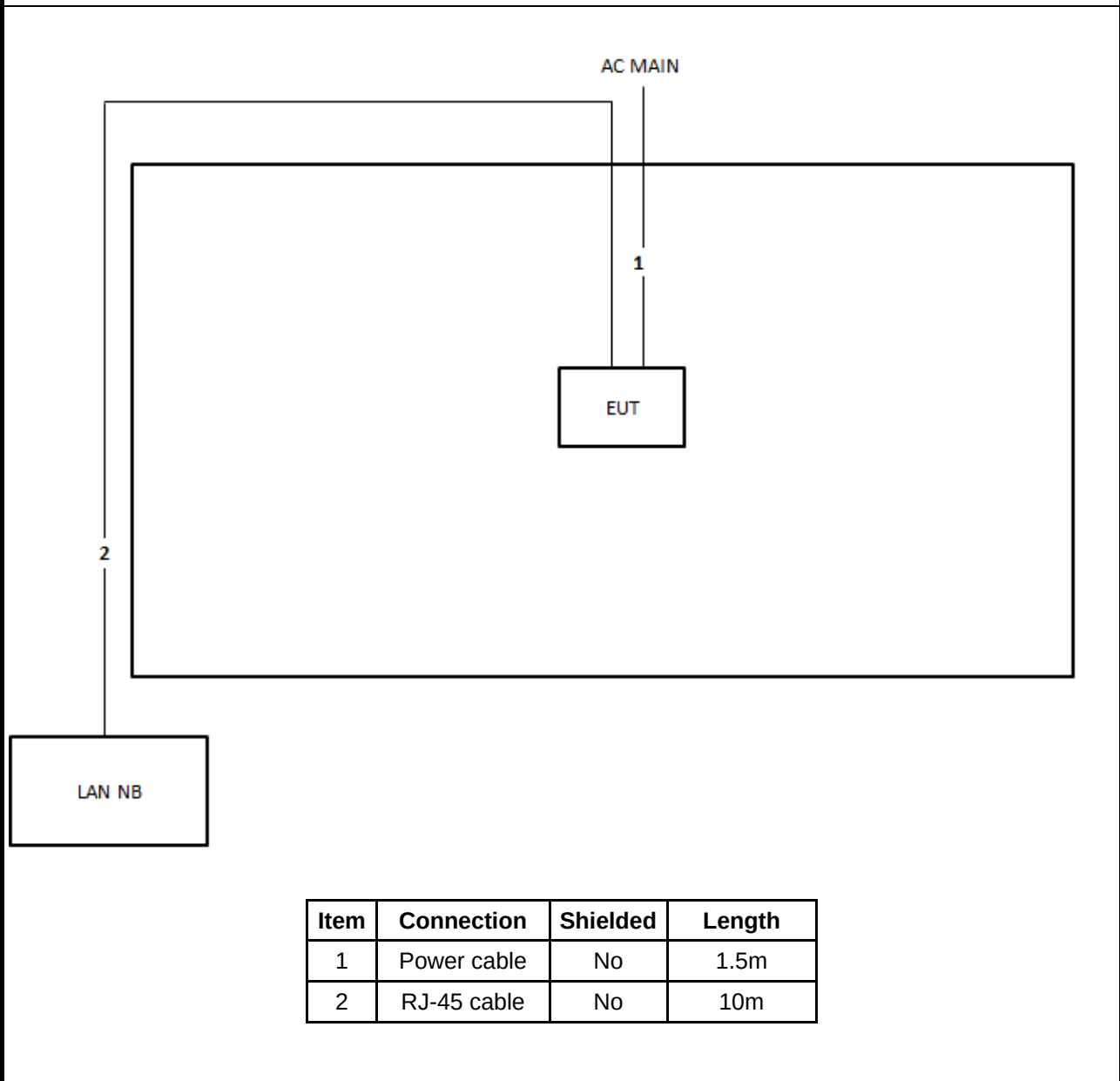


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable*3	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz



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.		

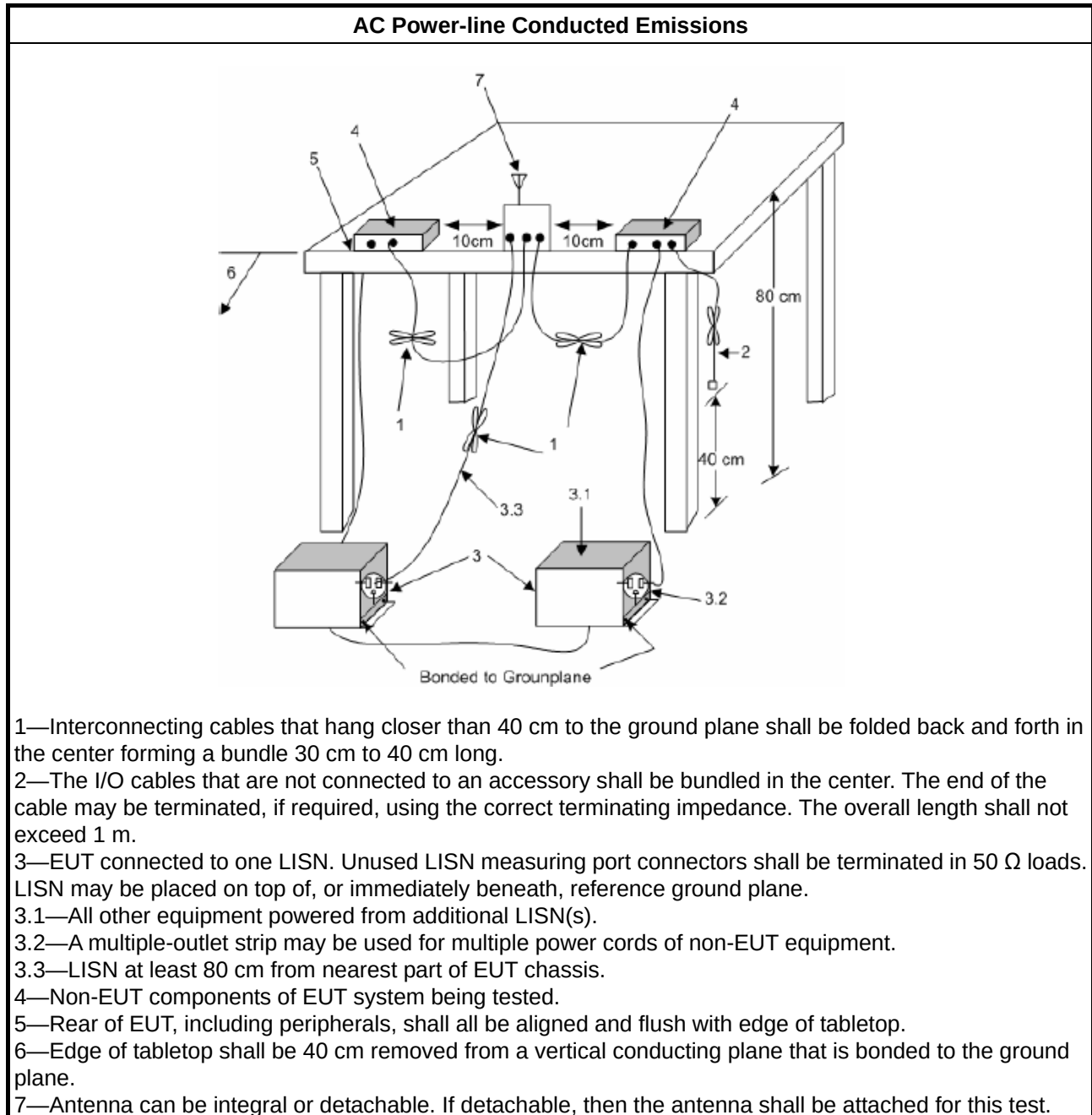
3.1.2 Measuring Instruments

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.

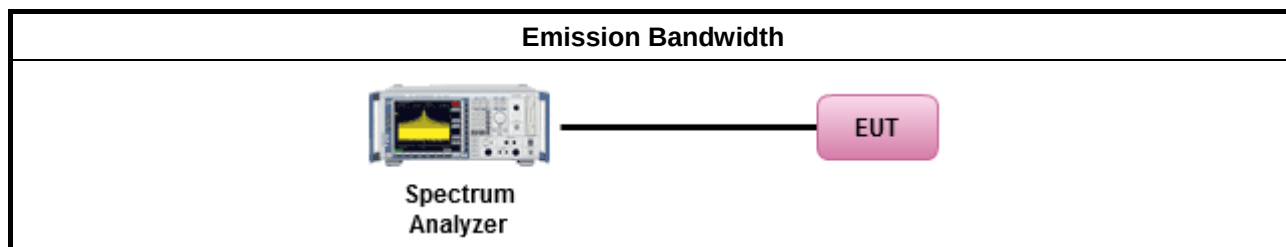
3.2.2 Measuring Instruments

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 FCC KDB 558074, clause 8.1 Option 1 for 6 dB bandwidth measurement.
☐	Refer as FCC KDB 558074, clause 8.2 Option 2 for 6 dB bandwidth measurement.
☐	Refer as ANSI C63.10, clause 6.9.1 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
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

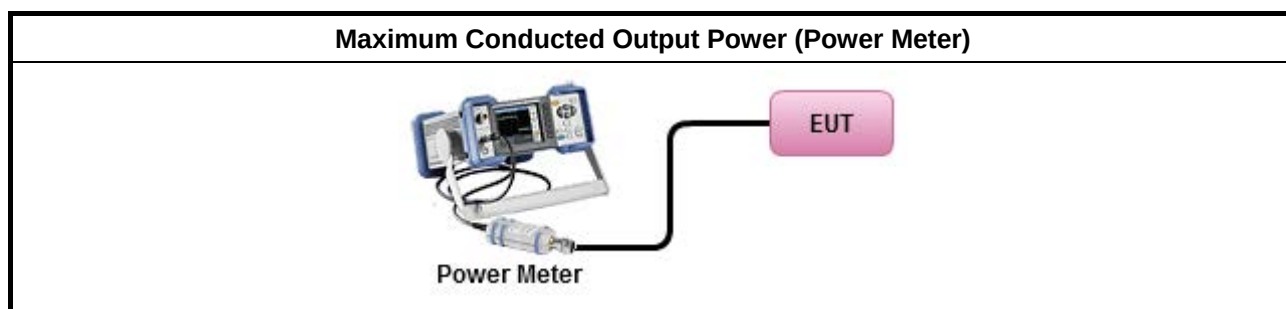
3.3.2 Measuring Instruments

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 FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
Maximum Conducted Output Power	
[duty cycle ≥ 98% or external video / power trigger]	
☐	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 9.2.2.3 Method AVGSA-1 Alt. (slow sweep speed)
duty cycle < 98% and average over on/off periods with duty factor	
☐	Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
☐	Refer as FCC KDB 558074, clause 9.2.2.5 Method AVGSA-2 Alt. (slow sweep speed)
RF power meter and average over on/off periods with duty factor or gated trigger	
☒	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).
☐	Refer as FCC KDB 558074, clause 9.1.2 PKPM1 Peak power meter method.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as FCC 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: $P_{\text{total}} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $\text{EIRP}_{\text{total}} = P_{\text{total}} + \text{DG}$	

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

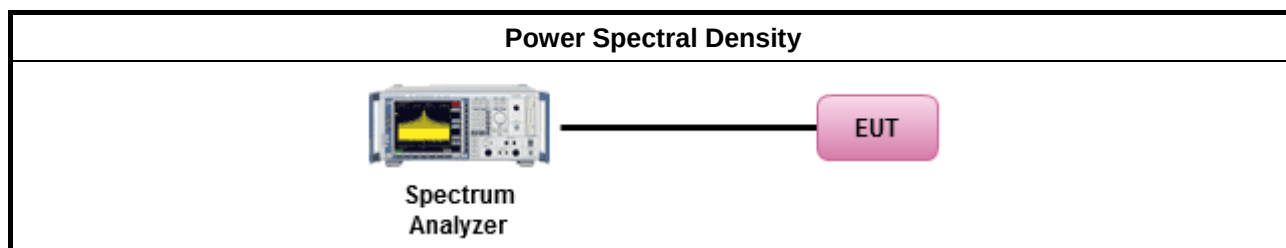
3.4.2 Measuring Instruments

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 FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle $\geq 98\%$ or external video / power trigger]
☐ Refer as FCC KDB 558074, clause 10.3 Method AVGPS-1 (spectral trace averaging).
☐ Refer as FCC KDB 558074, clause 10.4 Method AVGPS-2 (slow sweep speed)
duty cycle $< 98\%$ and average over on/off periods with duty factor
☐ Refer as FCC KDB 558074, clause 10.5 Method AVGPS-1 Alt (spectral trace averaging).
☐ Refer as FCC KDB 558074, clause 10.6 Method AVGPS-2 Alt. (slow sweep speed)
For conducted measurement.
If The EUT supports multiple transmit chains using options given below:
☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC 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.
☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

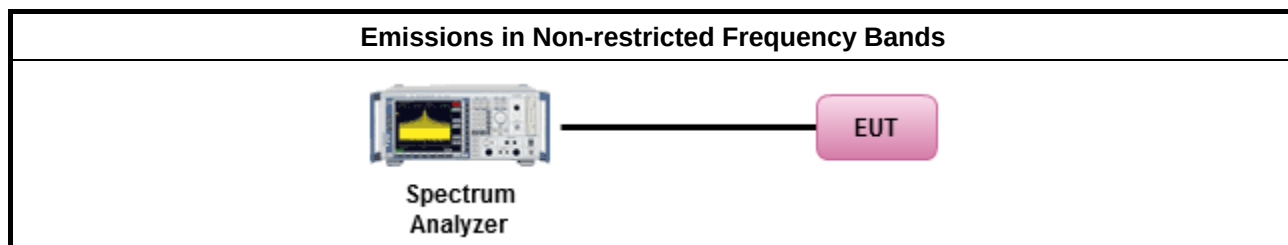
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

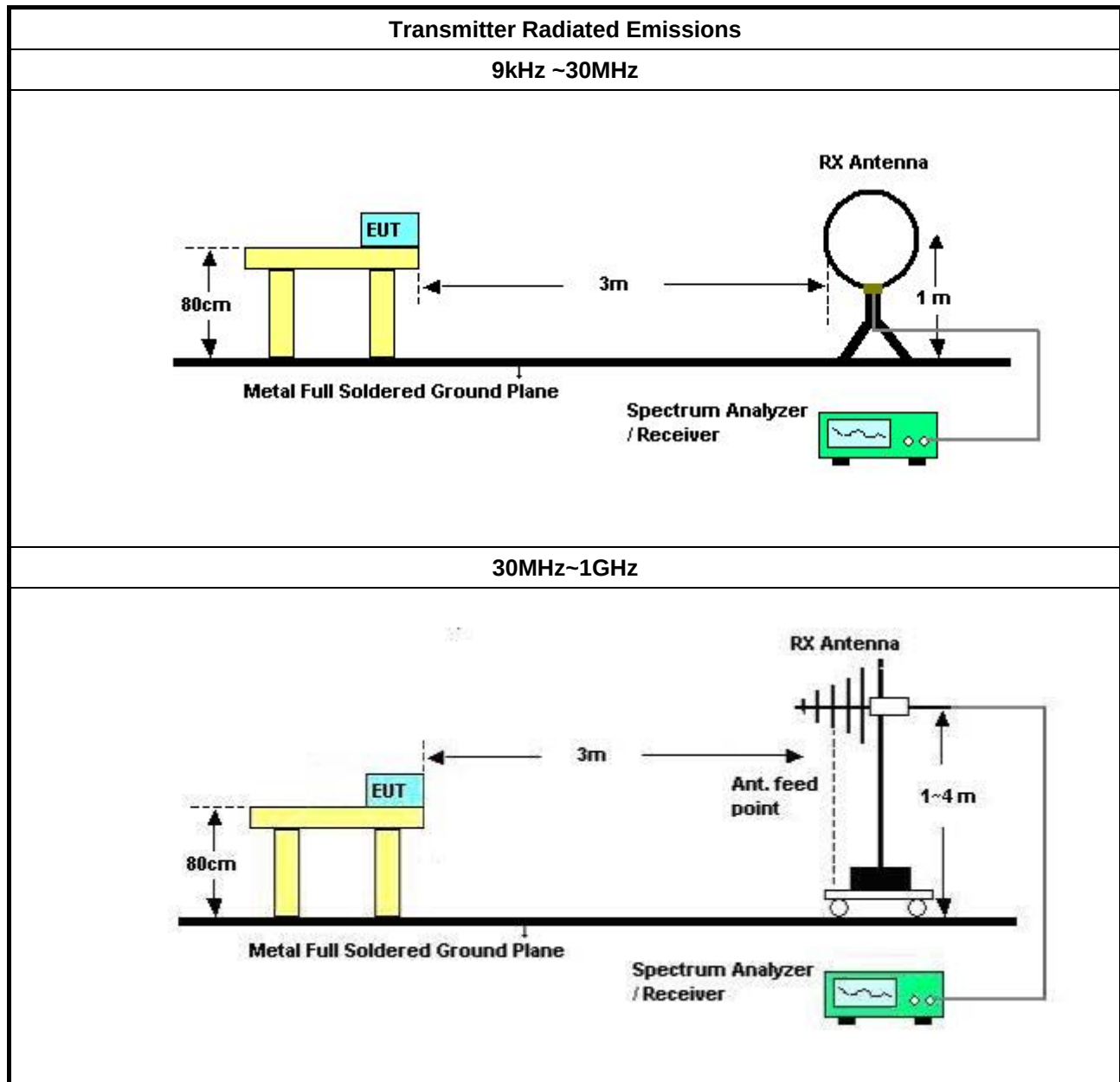
3.6.2 Measuring Instruments

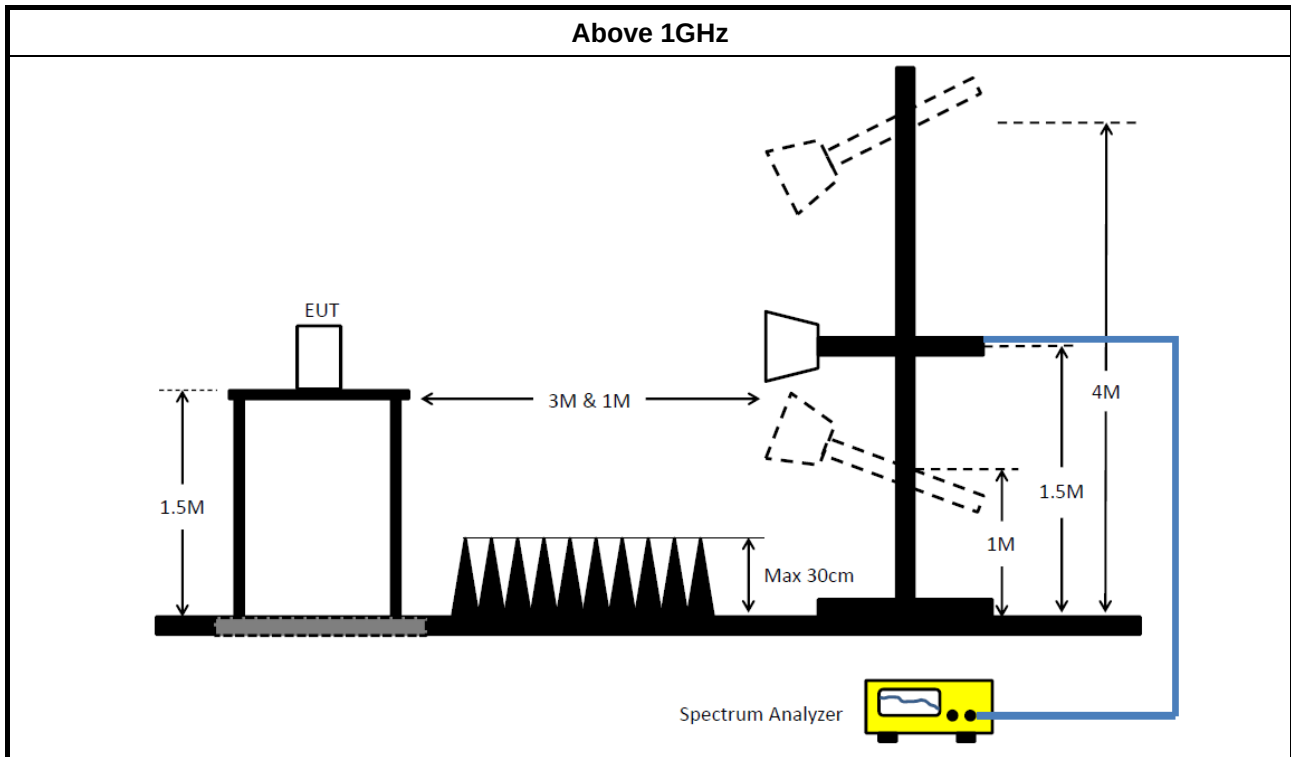
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.9.2.2 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 FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
	☐ Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
	☐ Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	☒ Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$).
	☐ Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	☐ Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	☒ Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as FCC KDB 558074 clause 13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
	Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.
	Refer as FCC KDB 558074, clause 13.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2.	
	For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add $10 \log(N)$ dB
	For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.6.4 Test Setup





3.6.5 Transmitter Radiated Unwanted Emissions (Below 30MHz)

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

3.6.6 Test Result of Transmitter Radiated Unwanted Emissions

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 23, 2017	Jan. 22, 2018	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 14, 2016	Dec. 13, 2017	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 21, 2016	Dec. 20, 2017	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 23, 2017	May 22, 2018	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA with 6dB Attenuator	TESEQ & EMCI	CBL6112D & N-6-06	37880 & AT-N0609	20MHz ~ 2GHz	Aug. 30, 2017	Aug. 29, 2018	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Mar. 15, 2018*	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Nov. 20, 2017	Nov. 19, 2018	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 05, 2017	Jul. 04, 2018	Radiation (03CH01-CB)
Pre-Amplifier	EMCI	EMC330N	980332	20MHz ~ 3GHz	May 02, 2017	May 01, 2018	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 16, 2017	Jan. 15, 2018	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-H G	1864479	18GHz ~ 40GHz	Jul. 10, 2017	Jul. 09, 2018	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Nov. 23, 2017	Nov. 22, 2018	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 06, 2017	May 05, 2018	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-16+17	N/A	30 MHz ~ 1 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16+17	N/A	1 GHz ~ 18 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#1	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G#2	N/A	18GHz ~ 40 GHz	Oct. 11, 2017	Oct. 10, 2018	Radiation (03CH01-CB)

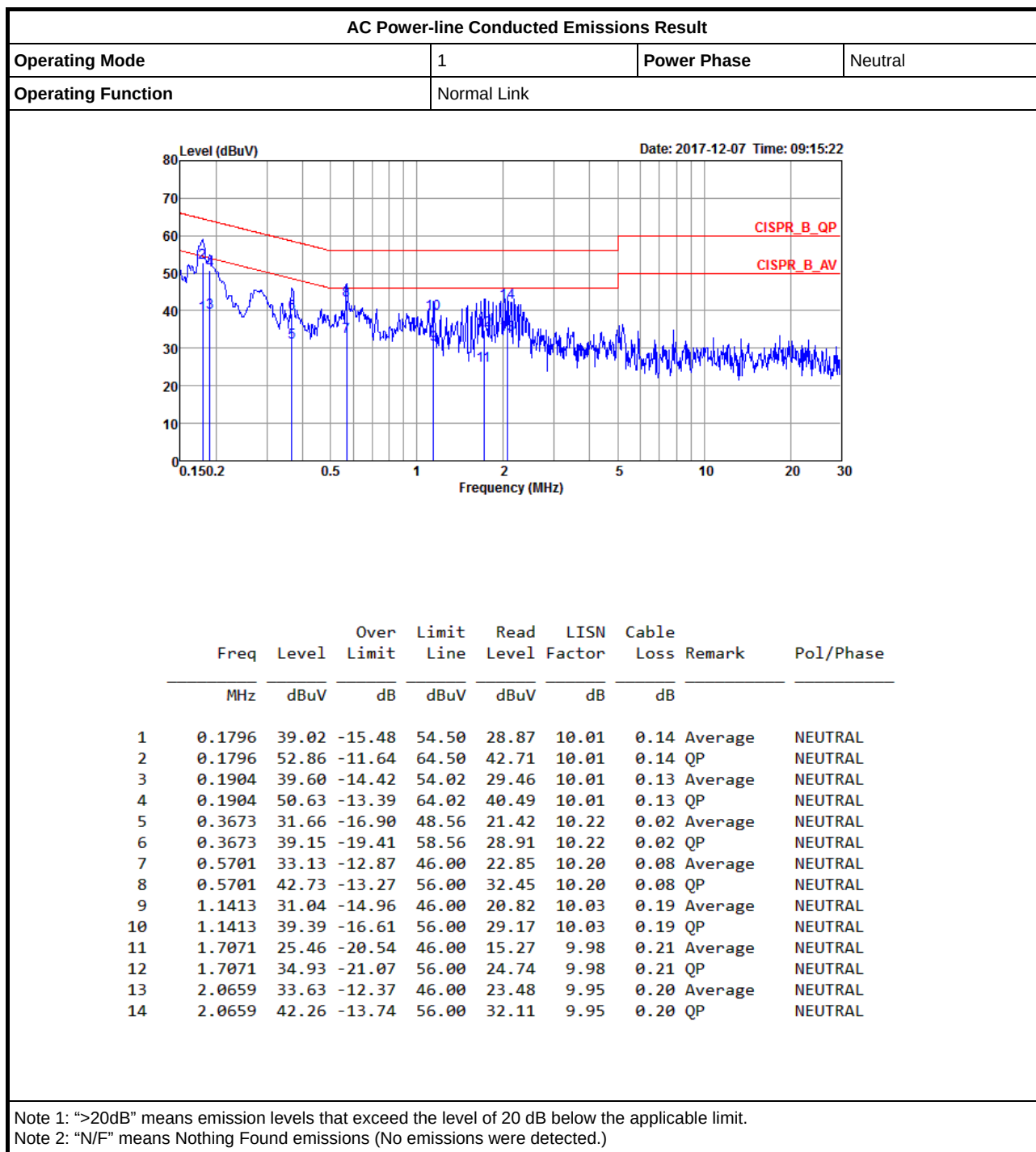


Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Test Software	Audix	E3	6.2009-I0-7	N/A	N/A	N/A	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 26, 2016	Dec. 25, 2017	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 11, 2017	Oct. 10, 2018	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 20, 2017	Nov. 19, 2018	Conducted (TH01-CB)

Note: Calibration Interval of instruments listed above is one year.

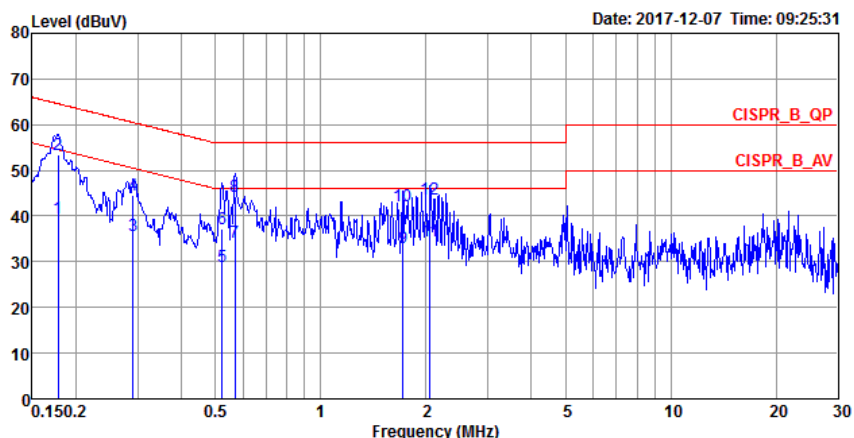
“*” Calibration Interval of instruments listed above is two years.

NCR means Non-Calibration required.



AC Power-line Conducted Emissions Result

Operating Mode	1	Power Phase	Line
Operating Function	Normal Link		



	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark	Pol/Phase
	MHz	dBuV	dB	dBuV	dBuV	dB	dB		
1	0.1777	39.70	-14.89	54.59	29.65	9.91	0.14	Average	LINE
2	0.1777	53.46	-11.13	64.59	43.41	9.91	0.14	QP	LINE
3	0.2909	35.57	-14.93	50.50	25.57	9.93	0.07	Average	LINE
4	0.2909	44.54	-15.96	60.50	34.54	9.93	0.07	QP	LINE
5	0.5238	28.93	-17.07	46.00	18.92	9.95	0.06	Average	LINE
6	0.5238	37.31	-18.69	56.00	27.30	9.95	0.06	QP	LINE
7	0.5701	34.33	-11.67	46.00	24.30	9.95	0.08	Average	LINE
8	0.5701	44.30	-11.70	56.00	34.27	9.95	0.08	QP	LINE
9	1.7162	33.09	-12.91	46.00	22.92	9.96	0.21	Average	LINE
10	1.7162	42.14	-13.86	56.00	31.97	9.96	0.21	QP	LINE
11	2.0549	34.57	-11.43	46.00	24.40	9.96	0.21	Average	LINE
12	2.0549	43.74	-12.26	56.00	33.57	9.96	0.21	QP	LINE

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

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

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	10.075M	15.292M	15M3D2W	10.05M	14.893M
802.11g_Nss1,(6Mbps)_2TX	16.275M	21.639M	21M6D7W	13.15M	16.392M
802.11n HT20_Nss1,(MCS0)_2TX	15.075M	23.063M	23M1D7W	13.85M	17.516M
802.11n HT40_Nss1,(MCS0)_2TX	35.1M	36.032M	36M0D7W	32.55M	35.782M

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;

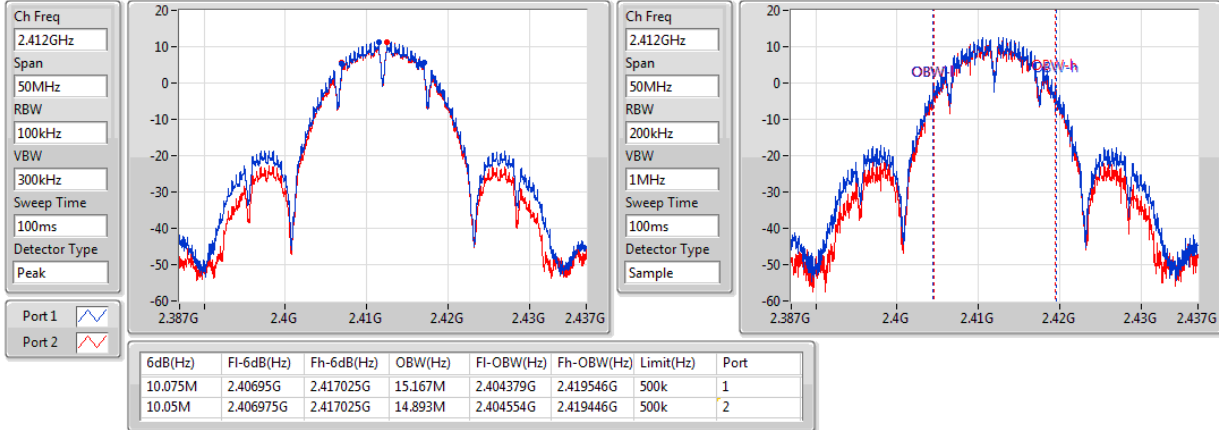
Result

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	Pass	500k	10.075M	15.167M	10.05M	14.893M
2437MHz	Pass	500k	10.075M	15.292M	10.05M	14.943M
2462MHz	Pass	500k	10.075M	15.217M	10.05M	15.042M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	14.95M	16.517M	15.075M	16.392M
2437MHz	Pass	500k	15.3M	19.565M	15.05M	21.639M
2462MHz	Pass	500k	13.15M	16.492M	16.275M	16.492M
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	15.075M	17.541M	14.45M	17.516M
2437MHz	Pass	500k	15.075M	20.365M	14.975M	23.063M
2462MHz	Pass	500k	14.975M	17.541M	13.85M	17.541M
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	35M	35.832M	35.1M	35.832M
2437MHz	Pass	500k	35.05M	36.032M	32.55M	35.932M
2452MHz	Pass	500k	35.05M	35.882M	33.85M	35.782M

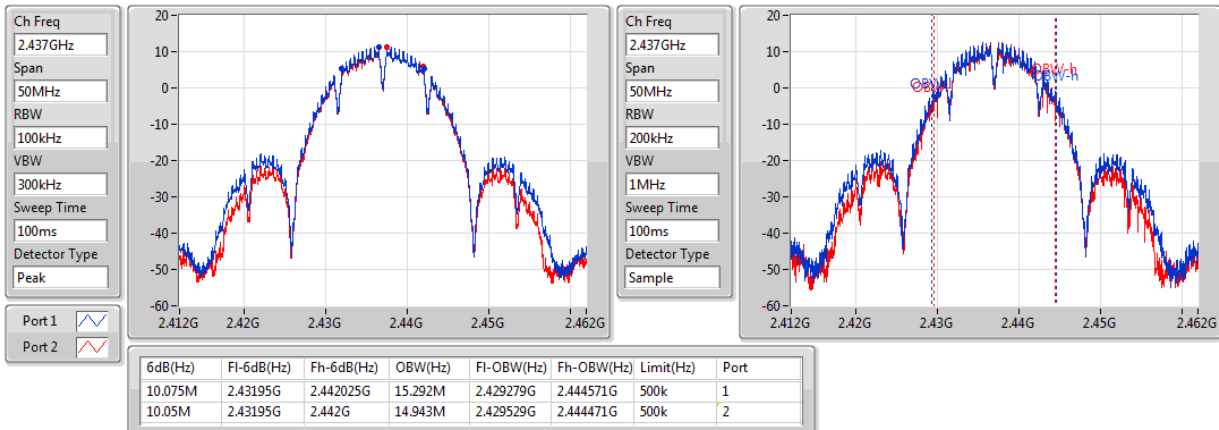
Port X-N dB = Port X 6dB down bandwidth; **Port X-OBW** = Port X 99% occupied bandwidth;

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

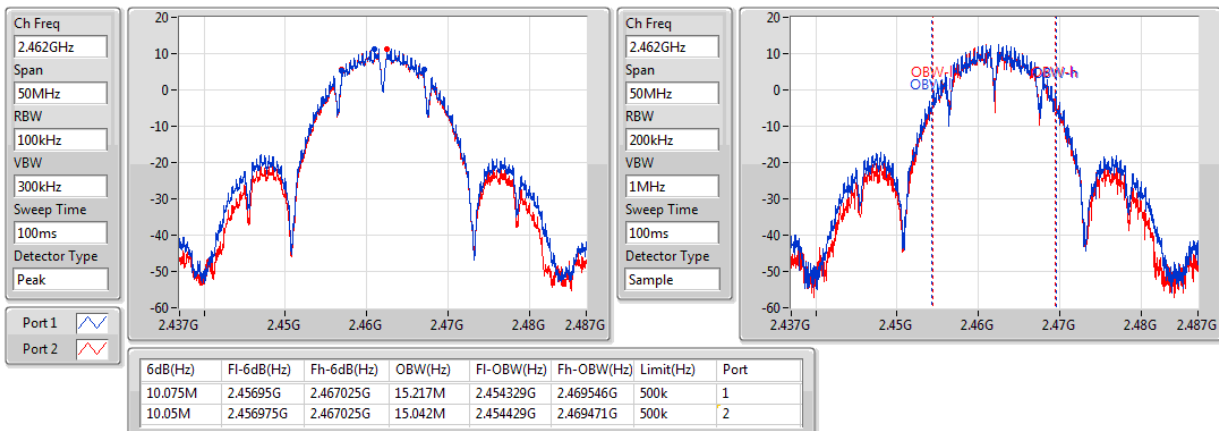
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802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

05/12/2017

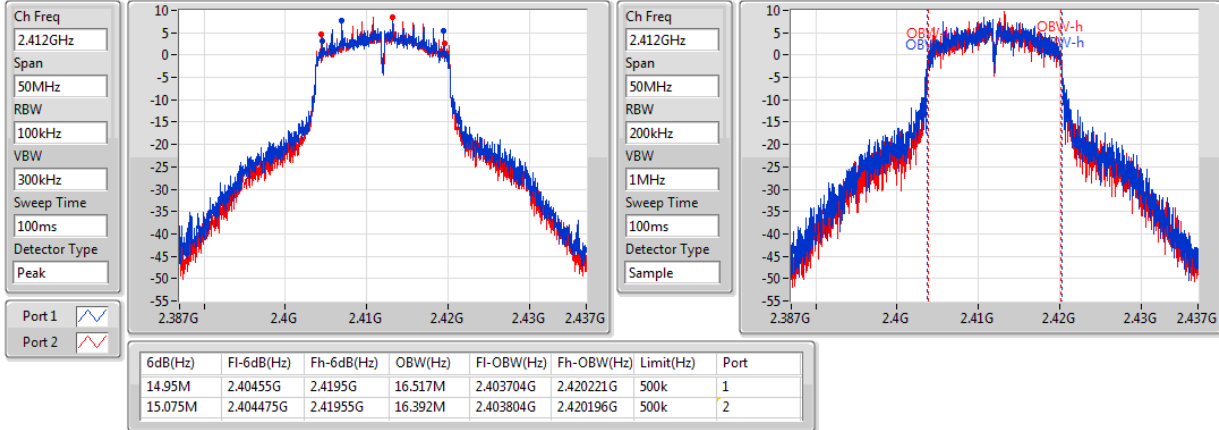

802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

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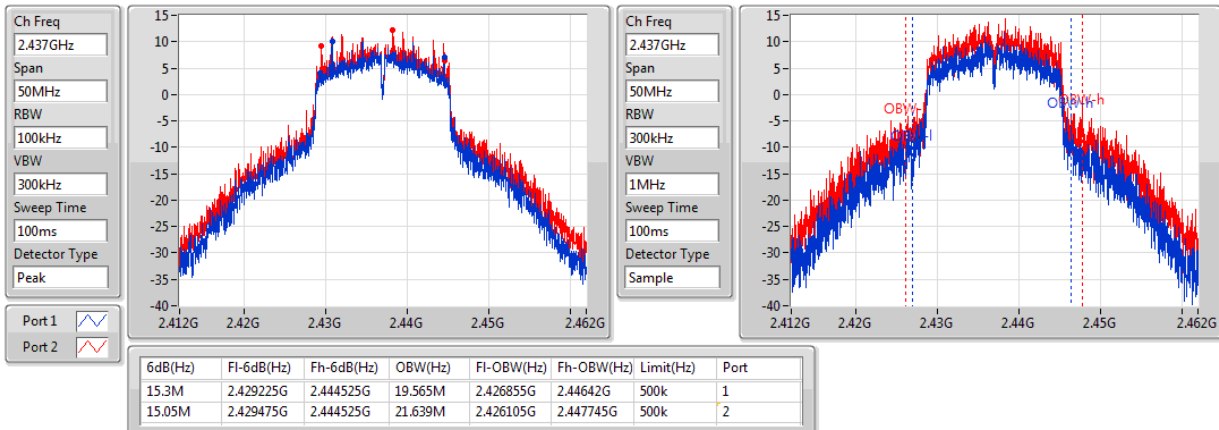


802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

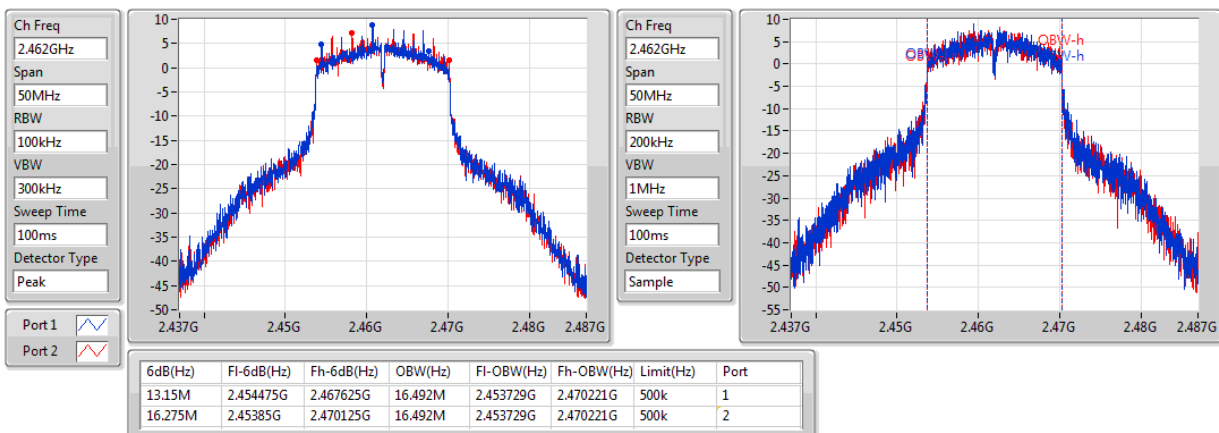
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802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

05/12/2017

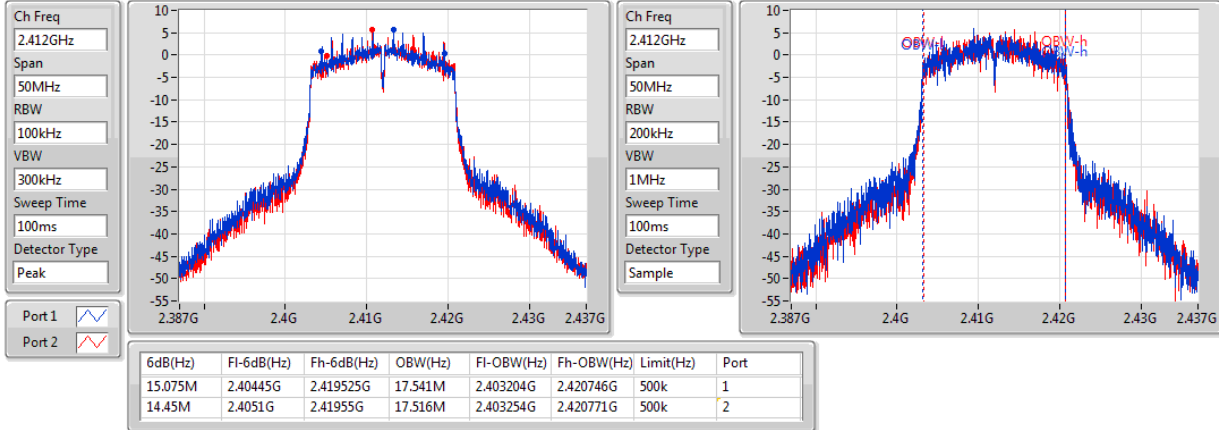

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

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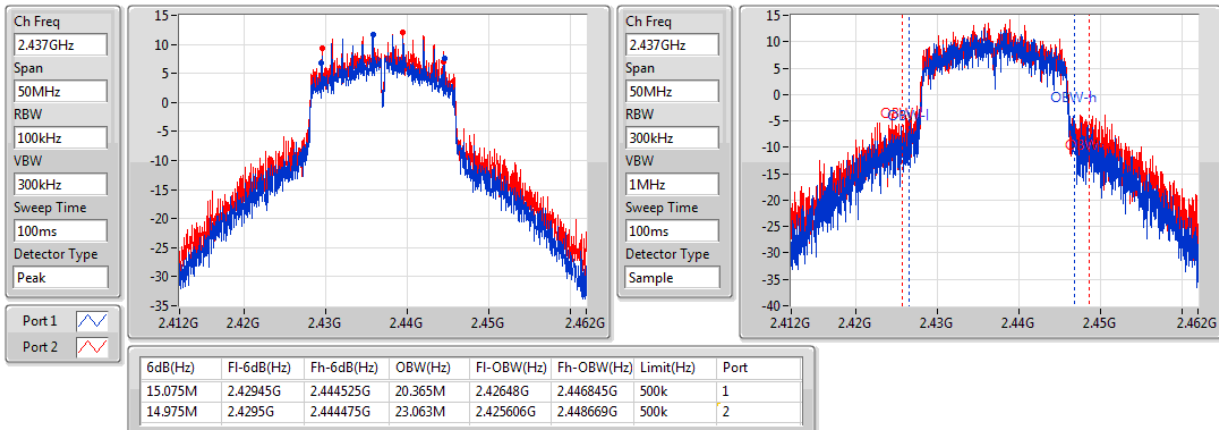


802.11n HT20_Nss1,(MCS0)_2TX
EBW
2412MHz

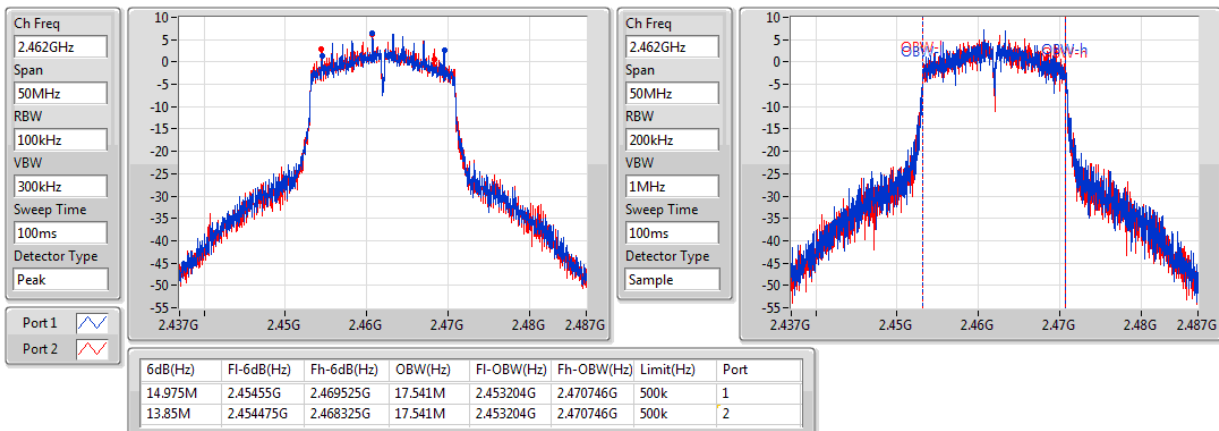
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802.11n HT20_Nss1,(MCS0)_2TX
EBW
2437MHz

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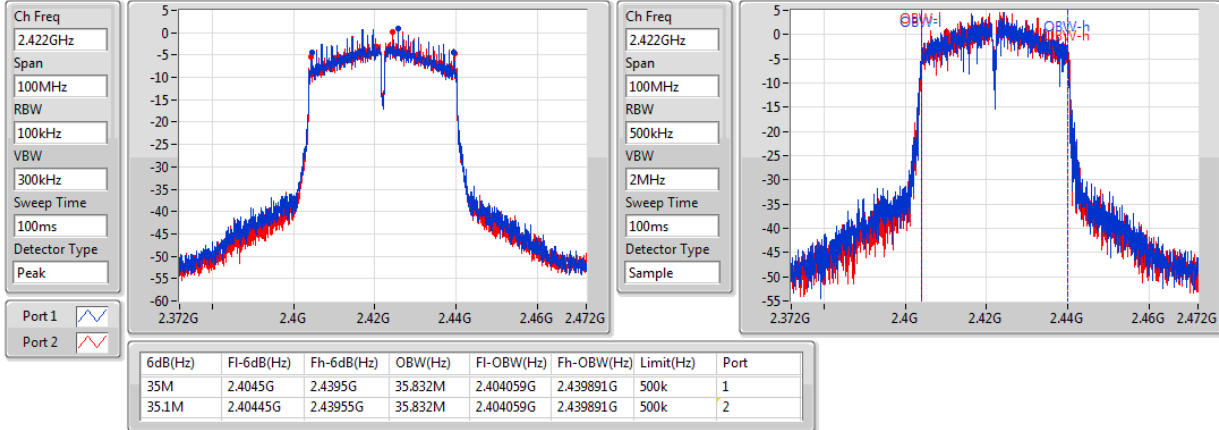

802.11n HT20_Nss1,(MCS0)_2TX
EBW
2462MHz

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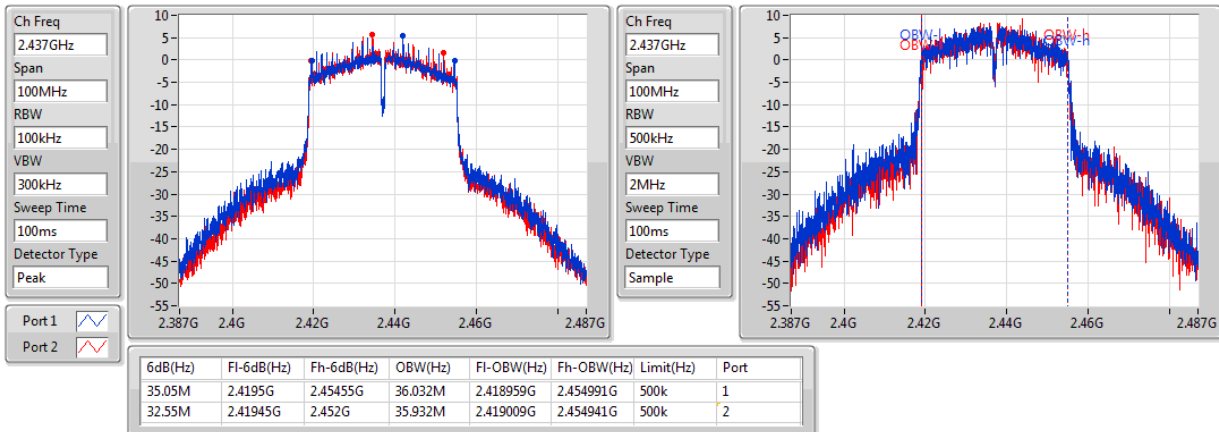


802.11n HT40_Nss1,(MCS0)_2TX
EBW
2422MHz

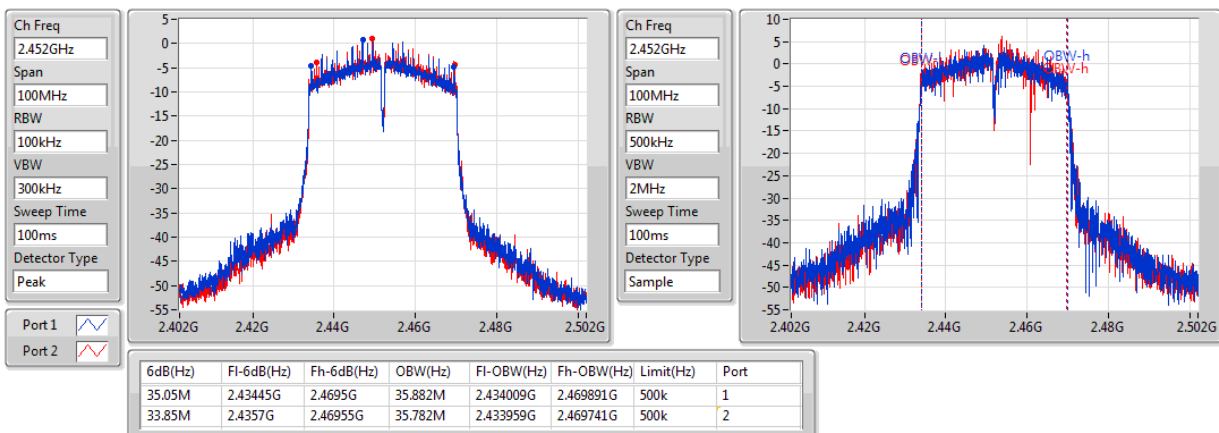
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802.11n HT40_Nss1,(MCS0)_2TX
EBW
2437MHz

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802.11n HT40_Nss1,(MCS0)_2TX
EBW
2452MHz

05/12/2017



Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	24.89	0.30832
802.11g_Nss1,(6Mbps)_2TX	25.47	0.35237
802.11n HT20_Nss1,(MCS0)_2TX	25.47	0.35237
802.11n HT40_Nss1,(MCS0)_2TX	21.41	0.13836

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.95	21.83	21.78	24.82	30.00
2417MHz	Pass	3.95	21.93	21.82	24.89	30.00
2437MHz	Pass	3.95	21.89	21.77	24.84	30.00
2457MHz	Pass	3.95	21.84	21.82	24.84	30.00
2462MHz	Pass	3.95	21.79	21.62	24.72	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.95	19.42	19.36	22.40	30.00
2417MHz	Pass	3.95	21.45	21.42	24.45	30.00
2422MHz	Pass	3.95	21.96	22.91	25.47	30.00
2437MHz	Pass	3.95	21.79	22.72	25.29	30.00
2452MHz	Pass	3.95	21.67	22.69	25.22	30.00
2457MHz	Pass	3.95	21.34	21.38	24.37	30.00
2462MHz	Pass	3.95	19.21	19.32	22.28	30.00
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	3.95	16.33	16.56	19.46	30.00
2417MHz	Pass	3.95	20.11	20.16	23.15	30.00
2422MHz	Pass	3.95	21.86	21.81	24.85	30.00
2427MHz	Pass	3.95	21.93	22.94	25.47	30.00
2437MHz	Pass	3.95	21.73	22.79	25.30	30.00
2447MHz	Pass	3.95	21.87	22.75	25.34	30.00
2452MHz	Pass	3.95	21.36	21.49	24.44	30.00
2457MHz	Pass	3.95	20.57	20.66	23.63	30.00
2462MHz	Pass	3.95	16.83	16.96	19.91	30.00
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	3.95	14.15	14.29	17.23	30.00
2427MHz	Pass	3.95	15.08	15.14	18.12	30.00
2432MHz	Pass	3.95	17.21	17.05	20.14	30.00
2437MHz	Pass	3.95	18.44	18.36	21.41	30.00
2442MHz	Pass	3.95	17.17	17.12	20.16	30.00
2447MHz	Pass	3.95	15.12	15.04	18.09	30.00
2452MHz	Pass	3.95	14.16	14.11	17.15	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	-4.23
802.11g_Nss1,(6Mbps)_2TX	-2.59
802.11n HT20_Nss1,(MCS0)_2TX	-2.12
802.11n HT40_Nss1,(MCS0)_2TX	-8.88

RBW=3kHz.

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.96	-5.84	-5.59	-4.43	7.04
2437MHz	Pass	6.96	-5.86	-6.16	-4.41	7.04
2462MHz	Pass	6.96	-5.21	-5.68	-4.23	7.04
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.96	-8.16	-8.15	-6.12	7.04
2437MHz	Pass	6.96	-4.80	-5.08	-2.59	7.04
2462MHz	Pass	6.96	-8.28	-8.16	-5.61	7.04
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	6.96	-11.14	-10.77	-8.61	7.04
2437MHz	Pass	6.96	-5.81	-3.22	-2.12	7.04
2462MHz	Pass	6.96	-10.85	-8.37	-6.94	7.04
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	6.96	-15.37	-15.23	-13.99	7.04
2437MHz	Pass	6.96	-10.87	-11.01	-8.88	7.04
2452MHz	Pass	6.96	-16.35	-15.22	-13.17	7.04

DG = Directional Gain; RBW=3kHz;

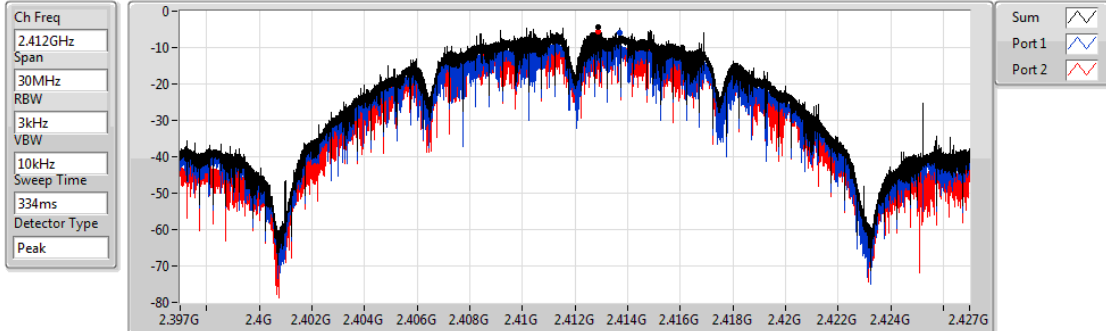
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; **Port X** = Port X power density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

05/12/2017



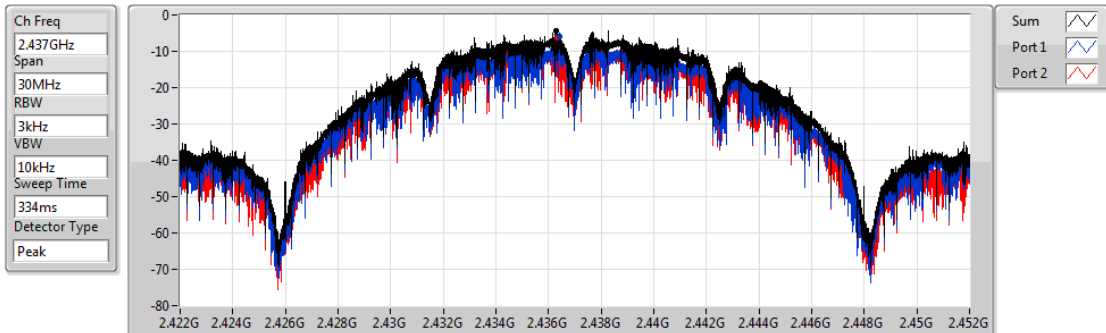
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.43	-4.43	-5.84	-5.59

802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

05/12/2017



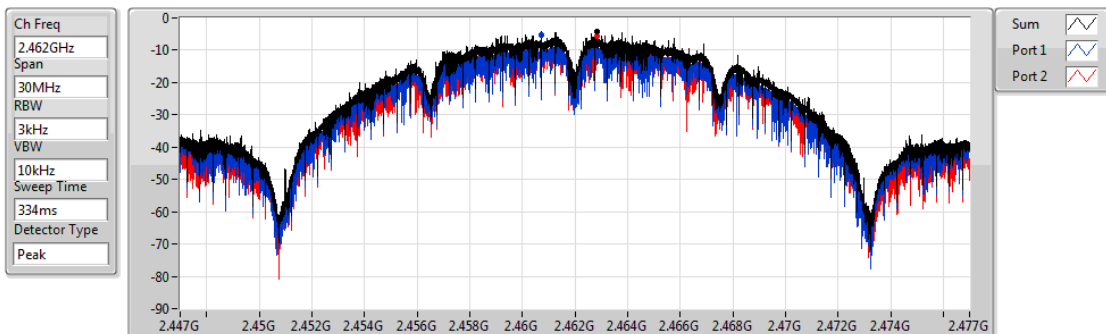
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.41	-4.41	-5.86	-6.16

802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

05/12/2017



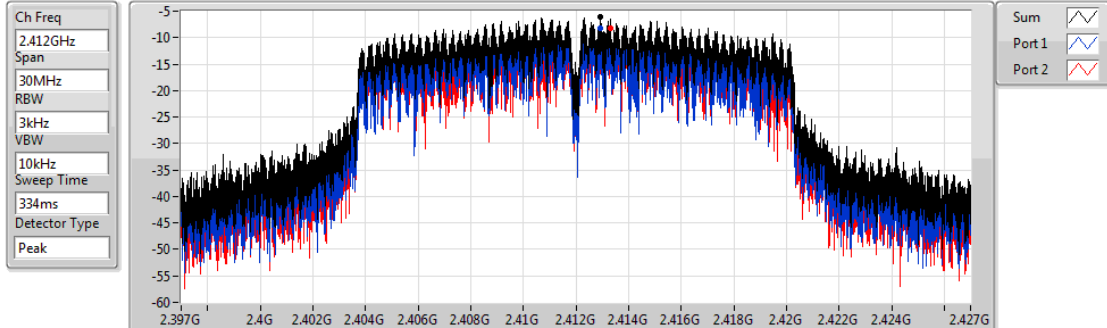
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.23	-4.23	-5.21	-5.68

802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

05/12/2017



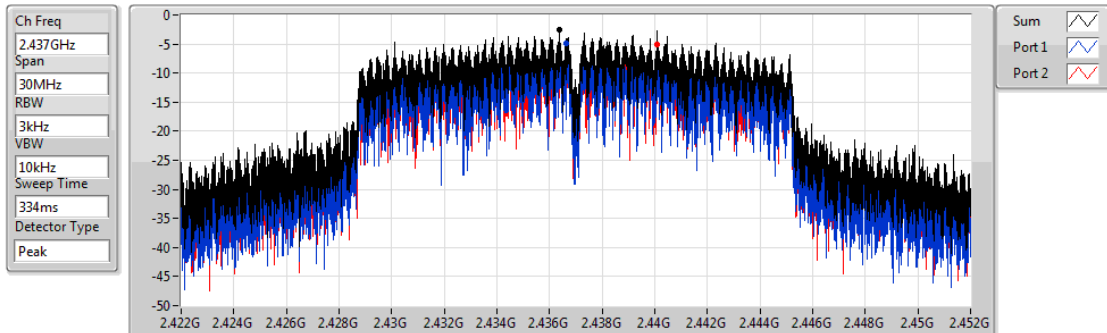
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.12	-6.12	-8.16	-8.15

802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

05/12/2017



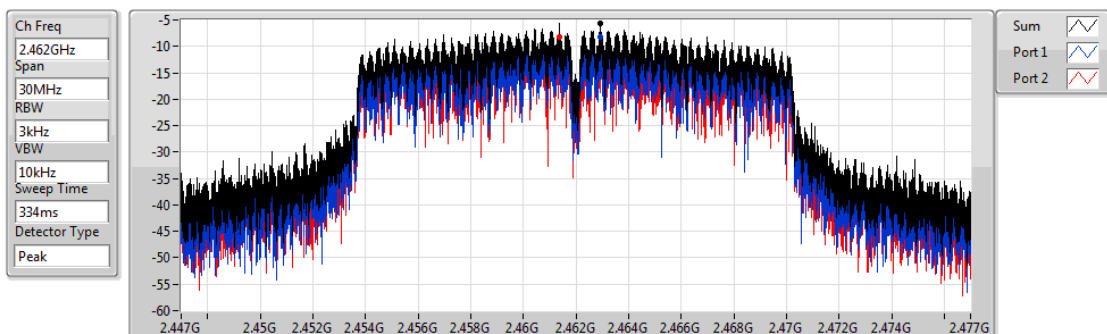
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.59	-2.59	-4.80	-5.08

802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

05/12/2017



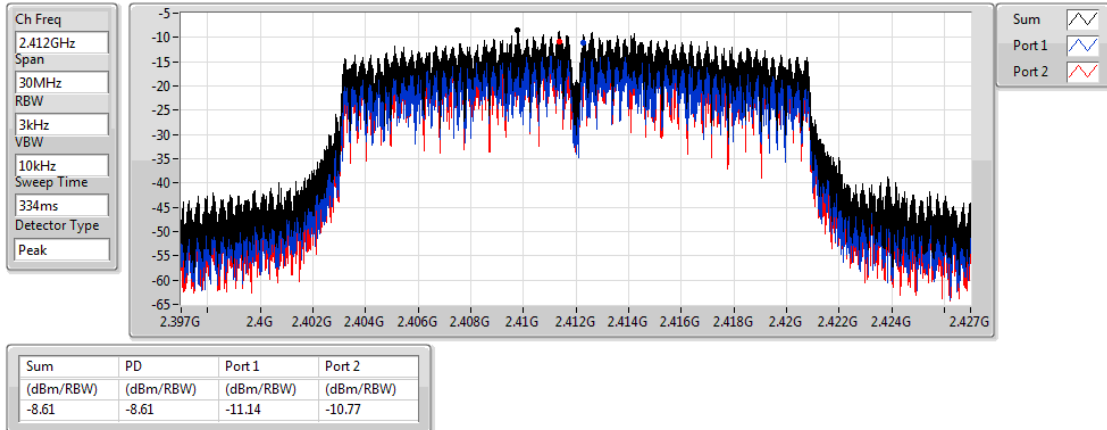
Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-5.61	-5.61	-8.28	-8.16

802.11n HT20_Nss1,(MCS0)_2TX

PSD

2412MHz

05/12/2017

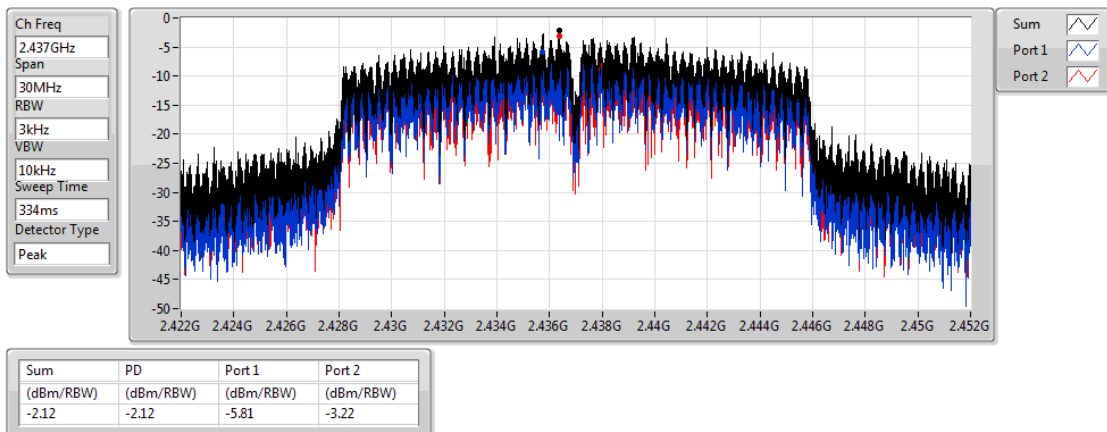


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2437MHz

05/12/2017

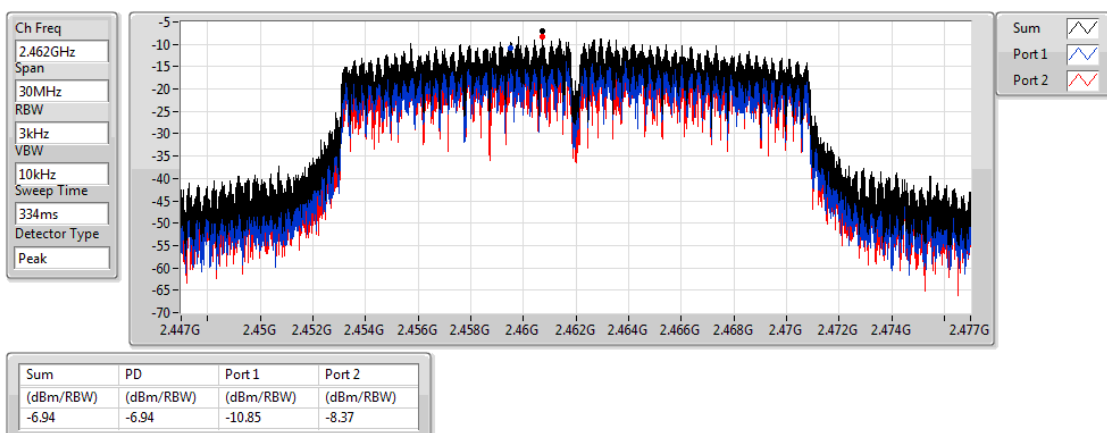


802.11n HT20_Nss1,(MCS0)_2TX

PSD

2462MHz

05/12/2017

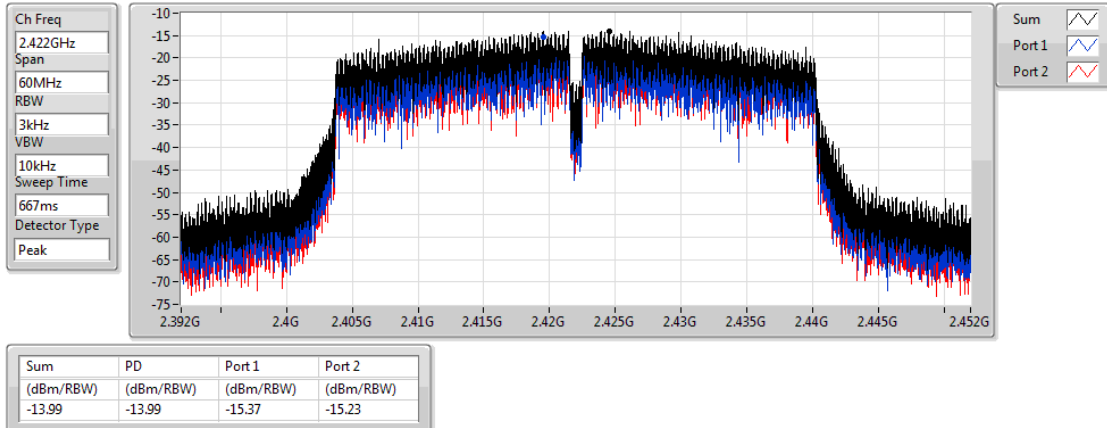


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2422MHz

05/12/2017

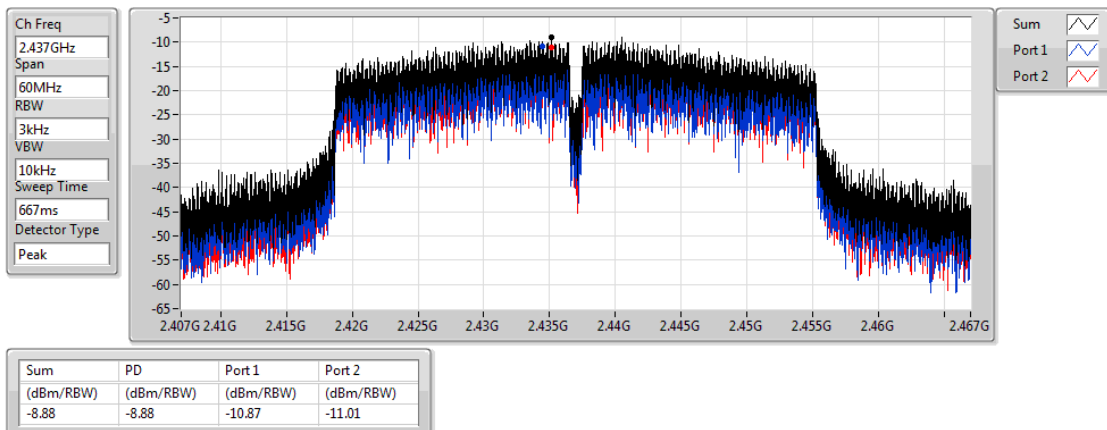


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2437MHz

05/12/2017

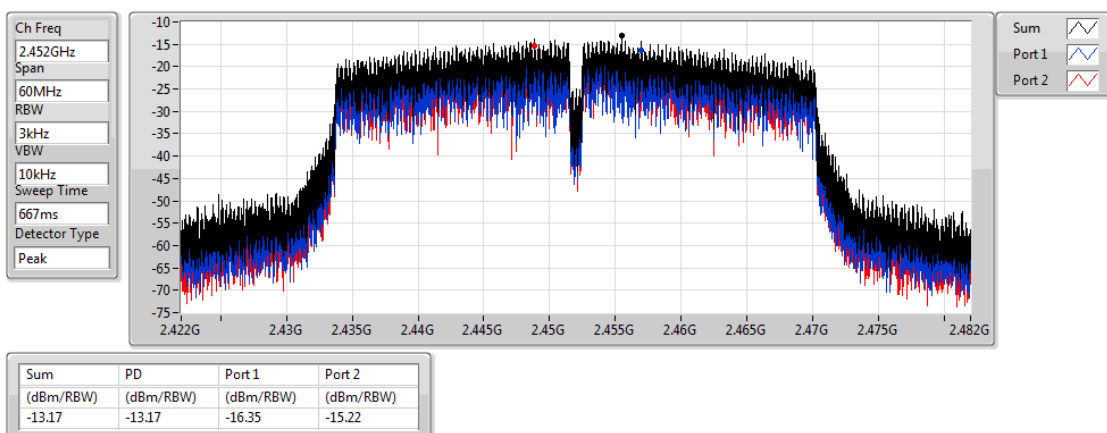


802.11n HT40_Nss1,(MCS0)_2TX

PSD

2452MHz

05/12/2017



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	2.437408G	11.42	-18.58	47.475M	-54.97	2.39752G	-18.72	2.48398G	-52.93	7.235136G	-50.52	1
802.11g_Nss1,(6Mbps)_2TX	Pass	2.435738G	12.20	-17.80	32.33M	-57.04	2.39952G	-18.99	2.49014G	-52.52	16.610646G	-53.77	1
802.11n HT20_Nss1,(MCS0)_2TX	Pass	2.435738G	11.09	-18.91	2.30641G	-60.01	2.39888G	-26.78	2.48406G	-52.54	21.802718G	-53.88	2
802.11n HT40_Nss1,(MCS0)_2TX	Pass	2.439412G	5.24	-24.76	2.302825G	-57.51	2.39968G	-29.71	2.4851G	-43.93	16.791046G	-52.80	2

Result

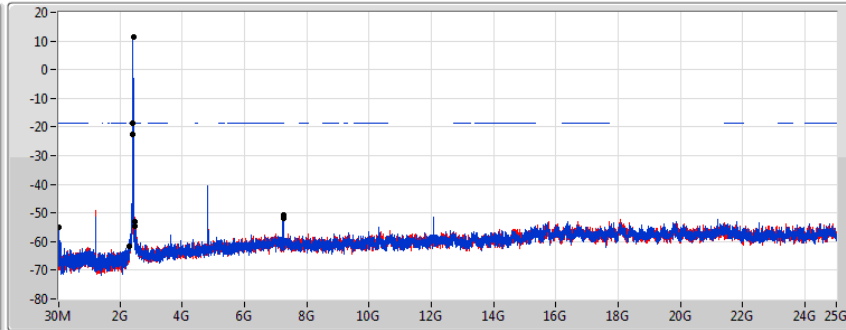
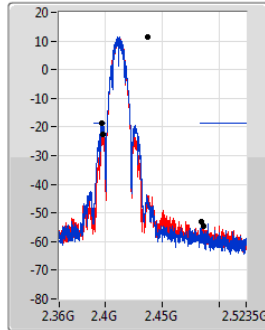
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.437408G	11.42	-18.58	47.475M	-54.97	2.39752G	-18.72	2.48398G	-52.93	7.235136G	-50.52	1
2412MHz	Pass	2.437408G	11.42	-18.58	2.30874G	-61.59	2.39848G	-22.70	2.48598G	-54.68	7.237946G	-51.88	2
2437MHz	Pass	2.437408G	11.42	-18.58	47.475M	-55.54	2.398G	-51.35	2.50006G	-53.04	24.848284G	-52.82	1
2437MHz	Pass	2.437408G	11.42	-18.58	2.30874G	-60.68	2.398G	-49.65	2.48598G	-52.20	17.0377G	-51.75	2
2462MHz	Pass	2.437408G	11.42	-18.58	47.475M	-55.57	2.3964G	-53.92	2.48846G	-43.63	16.737077G	-53.29	1
2462MHz	Pass	2.437408G	11.42	-18.58	2.305245G	-61.64	2.39792G	-54.75	2.48894G	-42.77	16.706172G	-52.81	2
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	12.20	-17.80	32.33M	-57.04	2.39952G	-18.99	2.49014G	-52.52	16.610646G	-53.77	1
2412MHz	Pass	2.435738G	12.20	-17.80	2.302915G	-58.15	2.39936G	-20.20	2.48486G	-52.00	16.71741G	-53.24	2
2437MHz	Pass	2.435738G	12.20	-17.80	2.30408G	-58.37	2.39992G	-45.91	2.48438G	-50.10	24.910094G	-53.61	1
2437MHz	Pass	2.435738G	12.20	-17.80	2.30641G	-59.99	2.39576G	-42.02	2.4839G	-48.42	21.701574G	-53.29	2
2462MHz	Pass	2.435738G	12.20	-17.80	47.475M	-55.06	2.39984G	-49.74	2.48486G	-38.32	16.633123G	-53.50	1
2462MHz	Pass	2.435738G	12.20	-17.80	2.307575G	-59.59	2.39728G	-49.29	2.48414G	-37.10	2.52631G	-51.95	2
802.11n HT20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.435738G	11.09	-18.91	47.475M	-54.58	2.39992G	-26.89	2.5107G	-52.65	17.400133G	-53.21	1
2412MHz	Pass	2.435738G	11.09	-18.91	2.30641G	-60.01	2.39888G	-26.78	2.48406G	-52.54	21.802718G	-53.88	2
2437MHz	Pass	2.435738G	11.09	-18.91	47.475M	-56.10	2.39952G	-43.33	2.48534G	-49.30	21.718431G	-51.91	1
2437MHz	Pass	2.435738G	11.09	-18.91	2.307575G	-59.58	2.39984G	-39.75	2.48382G	-47.26	24.831426G	-53.32	2
2462MHz	Pass	2.435738G	11.09	-18.91	47.475M	-55.13	2.39848G	-50.93	2.48414G	-39.86	24.918523G	-52.79	1
2462MHz	Pass	2.435738G	11.09	-18.91	2.30175G	-61.78	2.39448G	-51.09	2.4839G	-41.21	24.74152G	-53.77	2
802.11n HT40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.439412G	5.24	-24.76	47.175M	-53.67	2.39712G	-35.90	2.50942G	-53.15	16.757391G	-52.68	1
2422MHz	Pass	2.439412G	5.24	-24.76	2.302825G	-60.51	2.39792G	-36.85	2.50702G	-51.86	16.676059G	-52.98	2
2437MHz	Pass	2.439412G	5.24	-24.76	47.175M	-56.05	2.39936G	-32.48	2.48478G	-43.80	21.41016G	-52.93	1
2437MHz	Pass	2.439412G	5.24	-24.76	2.302825G	-57.51	2.39968G	-29.71	2.4851G	-43.93	16.791046G	-52.80	2
2452MHz	Pass	2.439412G	5.24	-24.76	33.435M	-56.33	2.39712G	-47.87	2.48446G	-41.01	24.775635G	-53.02	1
2452MHz	Pass	2.439412G	5.24	-24.76	30M	-60.03	2.3984G	-52.45	2.4843G	-41.41	17.69131G	-52.16	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2412MHz

05/12/2017



Port 1 
Port 2 

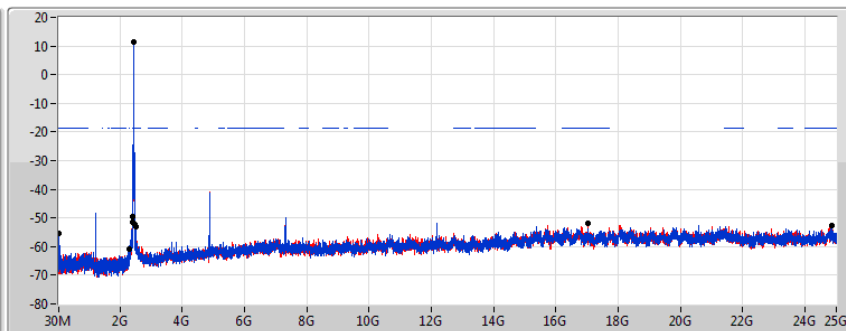
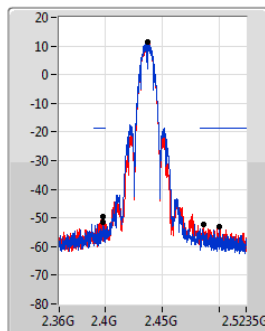
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437408G	11.42	-18.58	47.475M	-54.97	2.39752G	-18.72	2.48398G	-52.93	7.235136G	-50.52	1
2.437408G	11.42	-18.58	2.30874G	-61.59	2.39848G	-22.70	2.48598G	-54.68	7.237946G	-51.88	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2437MHz

05/12/2017



Port 1 
Port 2 

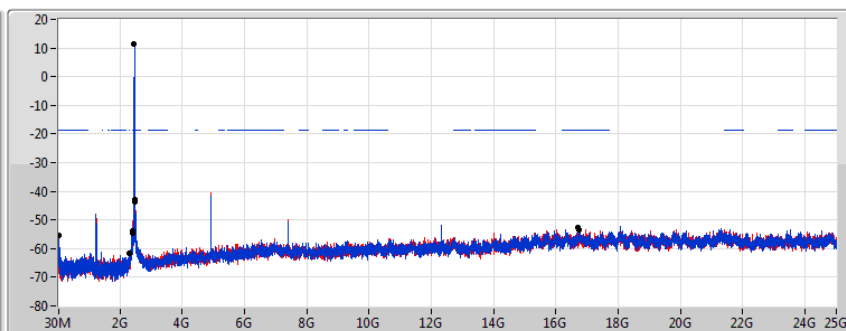
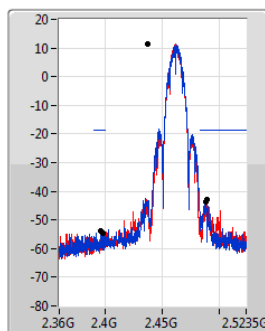
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437408G	11.42	-18.58	47.475M	-55.54	2.398G	-51.35	2.50006G	-53.04	24.848284G	-52.82	1
2.437408G	11.42	-18.58	2.30874G	-60.68	2.398G	-49.65	2.48598G	-52.20	17.0377G	-51.75	2

802.11b_Nss1,(1Mbps)_2TX

CSE NdB

2462MHz

05/12/2017



Port 1 
Port 2 

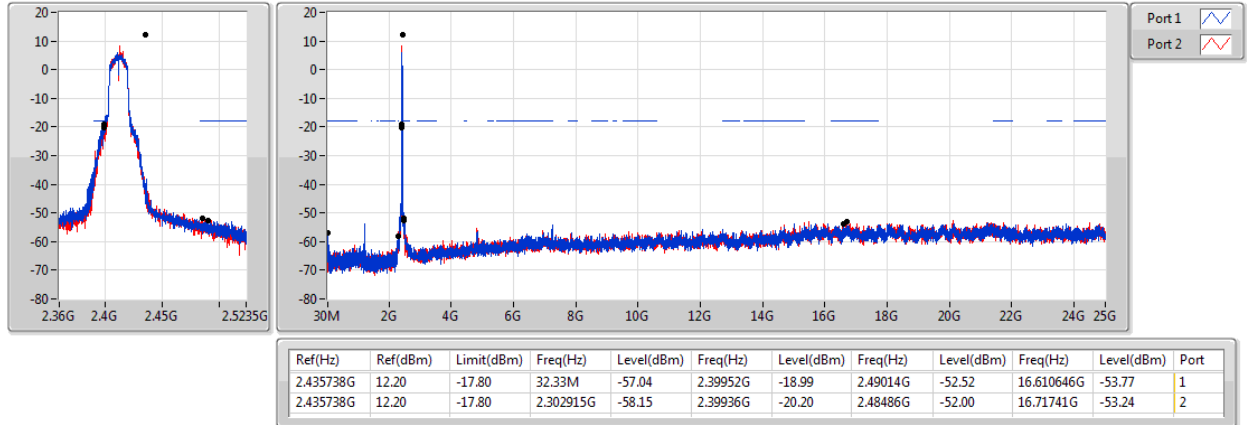
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.437408G	11.42	-18.58	47.475M	-55.57	2.3964G	-53.92	2.48846G	-43.63	16.737077G	-53.29	1
2.437408G	11.42	-18.58	2.305245G	-61.64	2.39792G	-54.75	2.48894G	-42.77	16.706172G	-52.81	2

802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2412MHz

05/12/2017

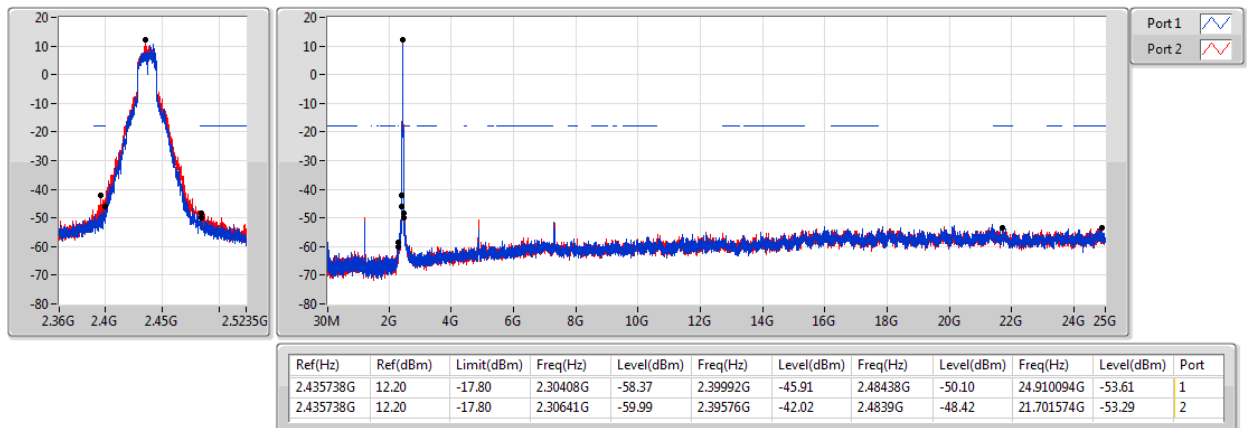


802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2437MHz

05/12/2017

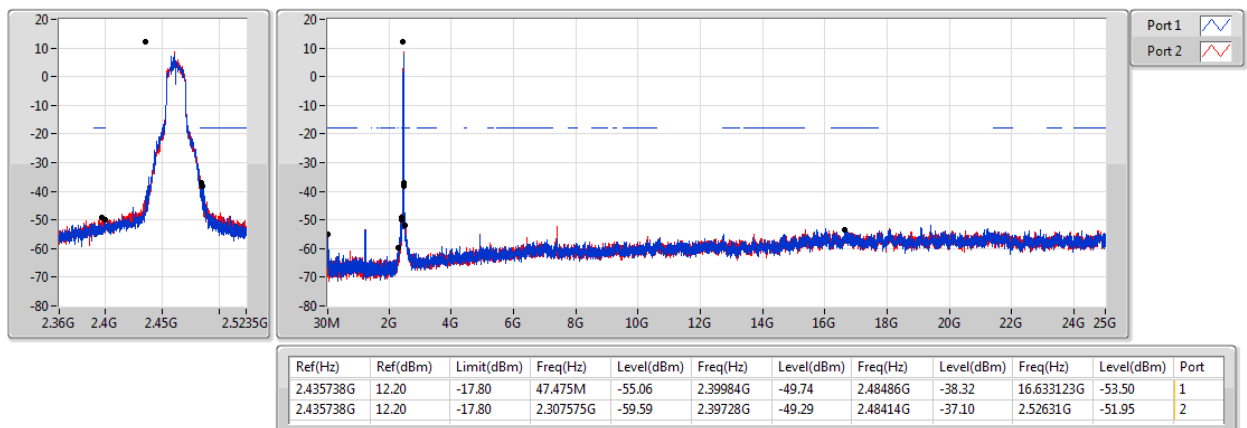


802.11g_Nss1,(6Mbps)_2TX

CSE NdB

2462MHz

05/12/2017

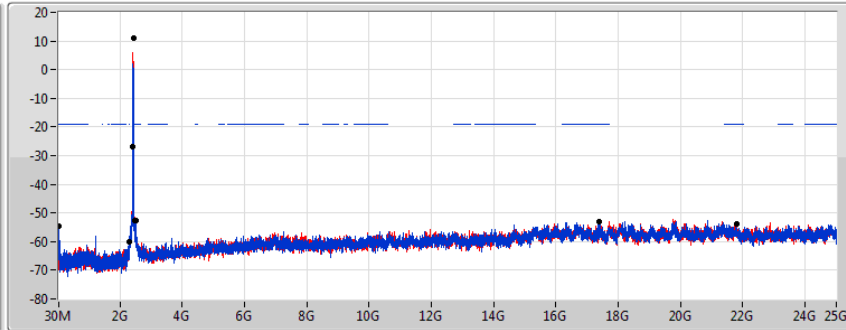
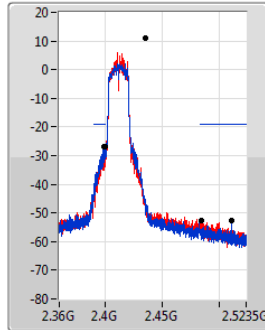


802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2412MHz

05/12/2017



Port 1 
Port 2 

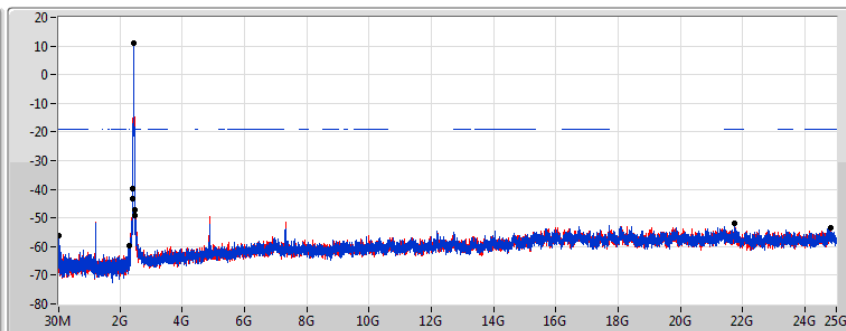
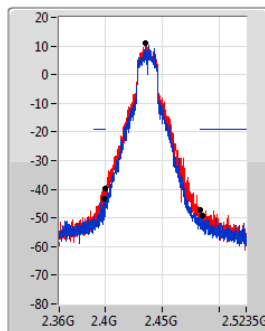
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	11.09	-18.91	47.475M	-54.58	2.39992G	-26.89	2.5107G	-52.65	17.400133G	-53.21	1
2.435738G	11.09	-18.91	2.30641G	-60.01	2.39888G	-26.78	2.48406G	-52.54	21.802718G	-53.88	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

05/12/2017



Port 1 
Port 2 

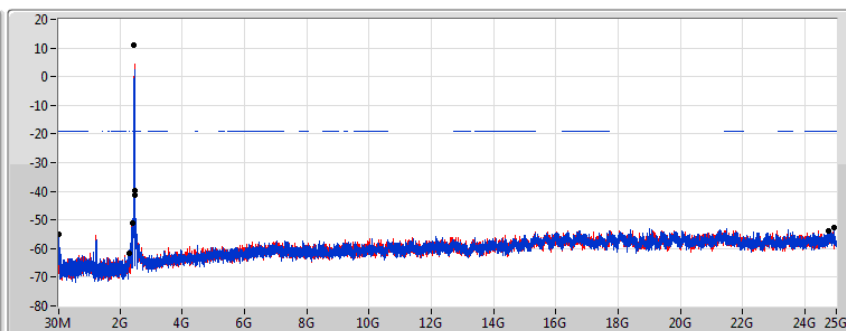
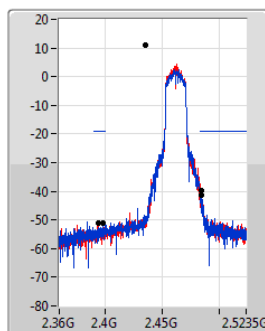
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	11.09	-18.91	47.475M	-56.10	2.39952G	-43.33	2.48534G	-49.30	21.718431G	-51.91	1
2.435738G	11.09	-18.91	2.307575G	-59.58	2.39984G	-39.75	2.48382G	-47.26	24.831426G	-53.32	2

802.11n HT20_Nss1,(MCS0)_2TX

CSE NdB

2462MHz

05/12/2017



Port 1 
Port 2 

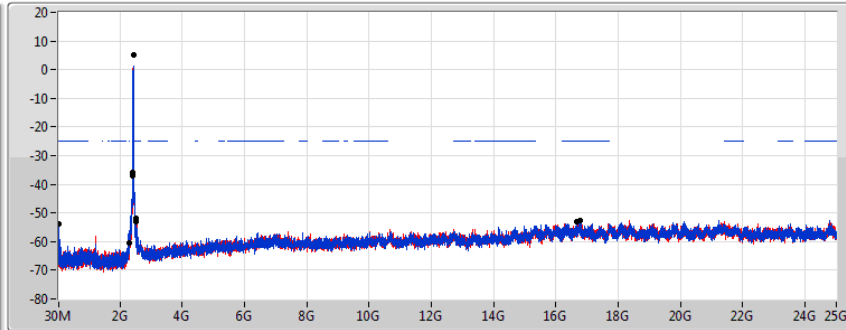
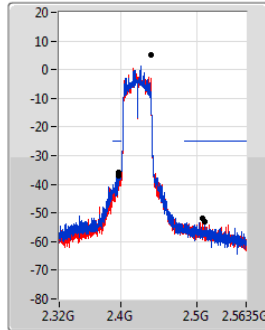
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.435738G	11.09	-18.91	47.475M	-55.13	2.39848G	-50.93	2.48414G	-39.86	24.918523G	-52.79	1
2.435738G	11.09	-18.91	2.30175G	-61.78	2.39448G	-51.09	2.4839G	-41.21	24.74152G	-53.77	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2422MHz

05/12/2017



Port 1 
Port 2 

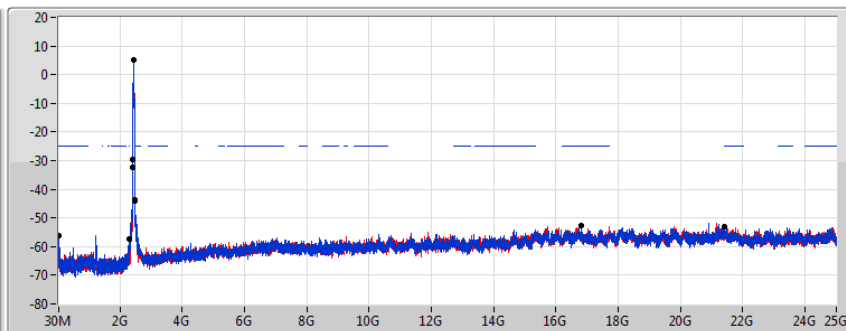
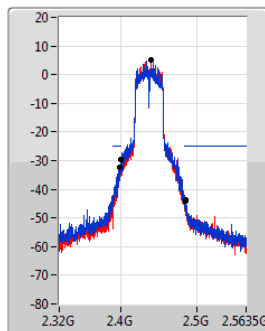
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	5.24	-24.76	47.175M	-53.67	2.39712G	-35.90	2.50942G	-53.15	16.757391G	-52.68	1
2.439412G	5.24	-24.76	2.302825G	-60.51	2.39792G	-36.85	2.50702G	-51.86	16.676059G	-52.98	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

2437MHz

05/12/2017



Port 1 
Port 2 

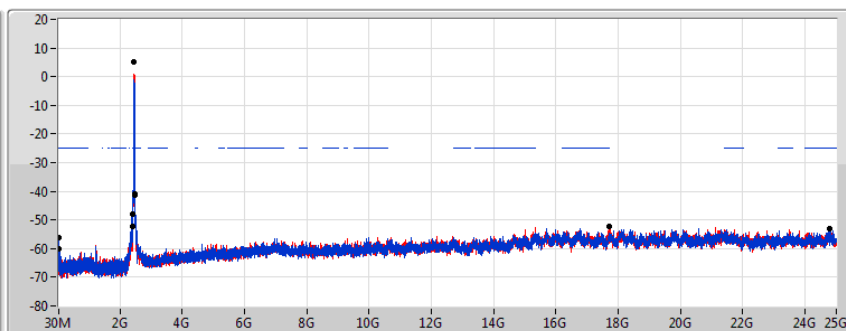
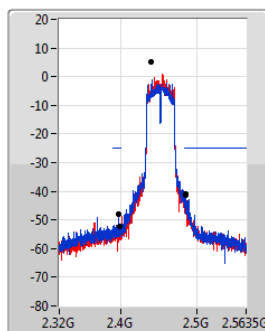
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	5.24	-24.76	47.175M	-56.05	2.39936G	-32.48	2.48478G	-43.80	21.41016G	-52.93	1
2.439412G	5.24	-24.76	2.302825G	-57.51	2.39968G	-29.71	2.4851G	-43.93	16.791046G	-52.80	2

802.11n HT40_Nss1,(MCS0)_2TX

CSE NdB

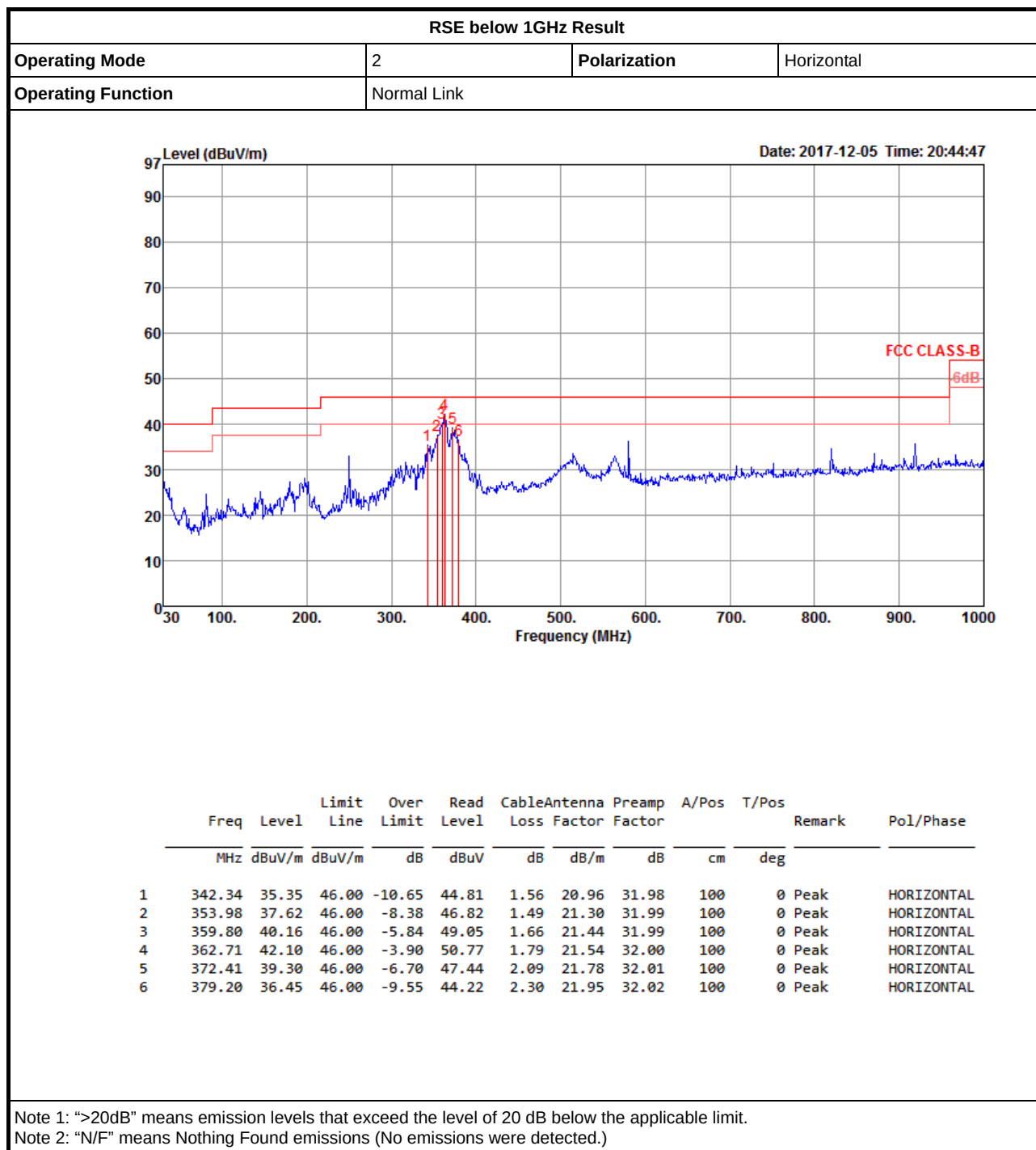
2452MHz

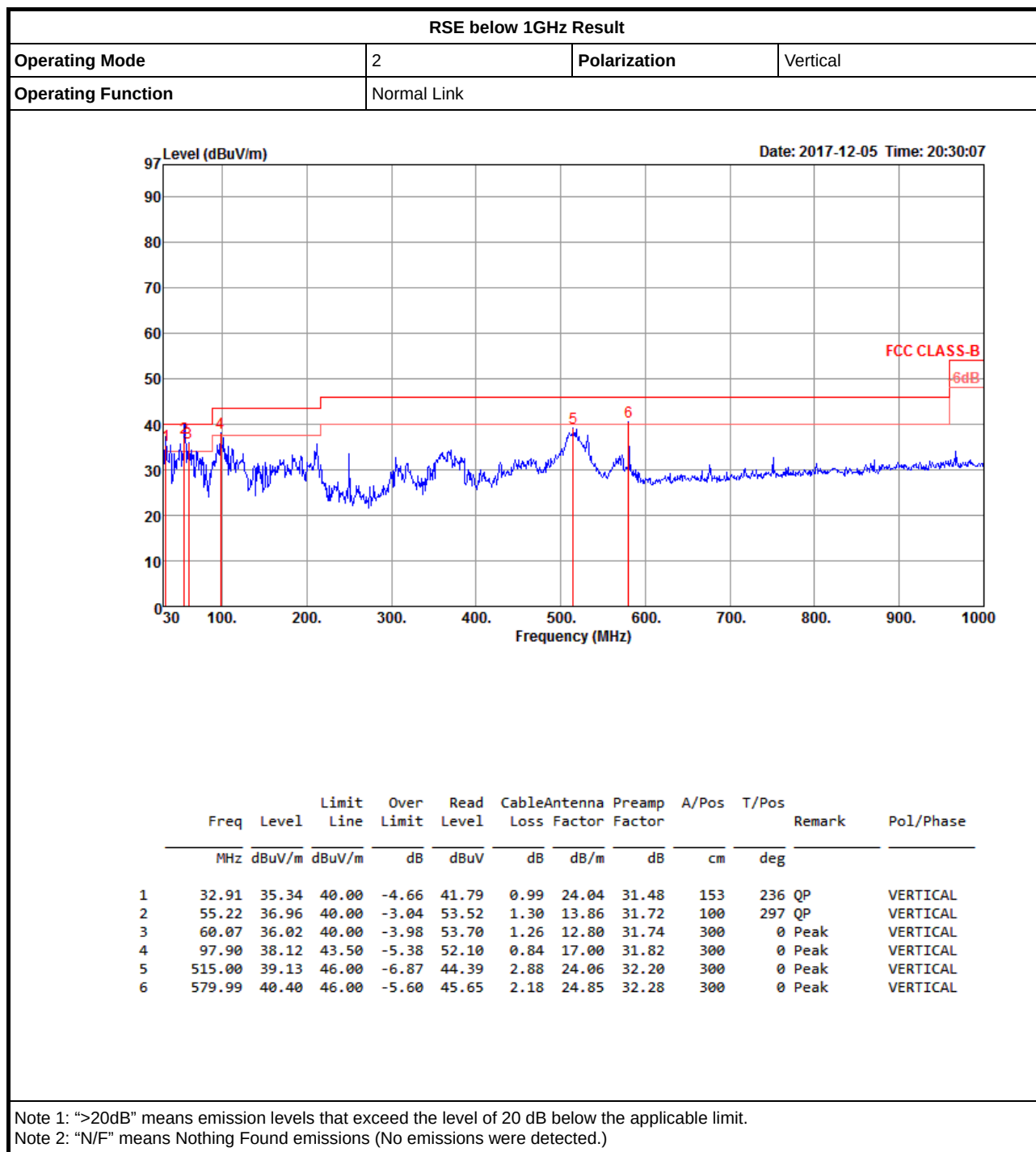
05/12/2017



Port 1 
Port 2 

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.439412G	5.24	-24.76	33.435M	-56.33	2.39712G	-47.87	2.48446G	-41.01	24.775635G	-53.02	1
2.439412G	5.24	-24.76	30M	-60.03	2.3984G	-52.45	2.4843G	-41.41	17.69131G	-52.16	2





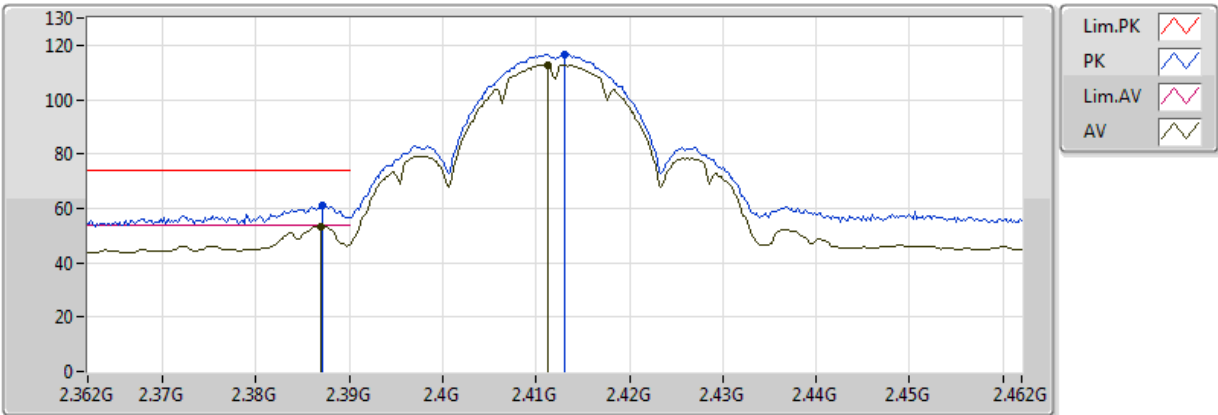


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11n HT20_Nss1,(MCS0)_2TX	Pass	AV	2.3896G	53.98	54.00	-0.02	29.93	3	Vertical	340	1.53	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

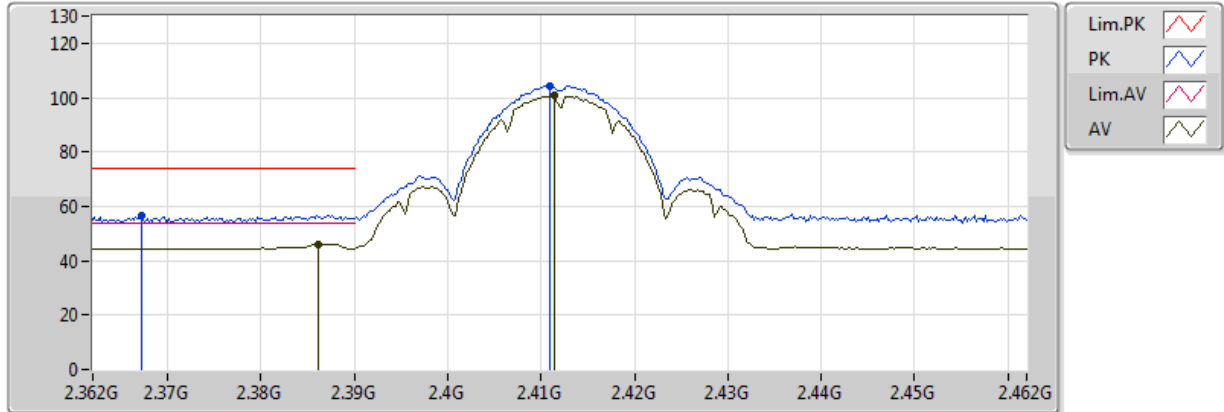


20171204
EUT Y 2TX
Setting : 1E
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)				
AV	2.387G	53.35	54.00	-0.65	29.93	3	Vertical	349	1.59				
AV	2.4112G	112.90	Inf	-Inf	30.02	3	Vertical	349	1.59				
PK	2.3872G	61.04	74.00	-12.96	29.93	3	Vertical	349	1.59				
PK	2.413G	116.79	Inf	-Inf	30.03	3	Vertical	349	1.59				

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

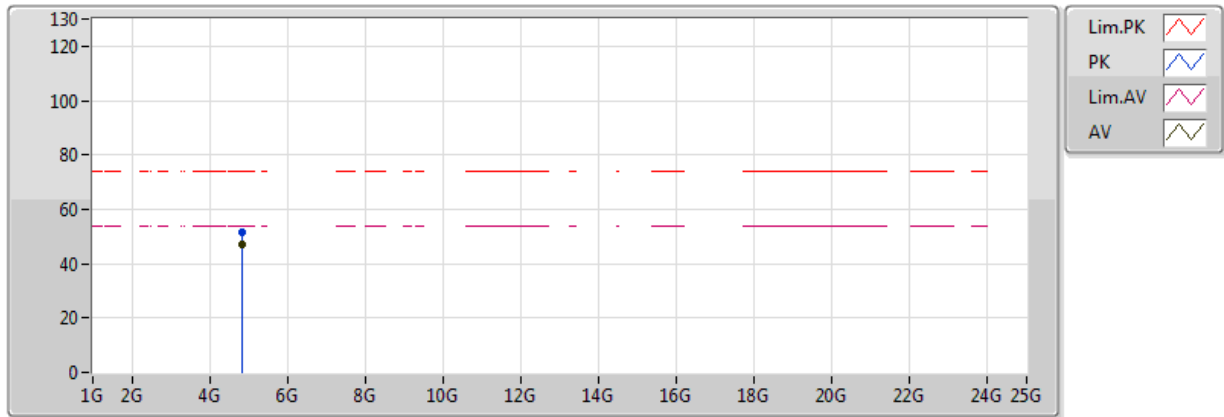


20171213
EUT Y_2TX
Setting 1E
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3862G	46.13	54.00	-7.87	32.17	3	Horizontal	175	1.97					
AV	2.4114G	100.68	Inf	-Inf	32.24	3	Horizontal	175	1.97					
PK	2.3672G	56.69	74.00	-17.31	32.12	3	Horizontal	175	1.97					
PK	2.411G	104.39	Inf	-Inf	32.24	3	Horizontal	175	1.97					

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

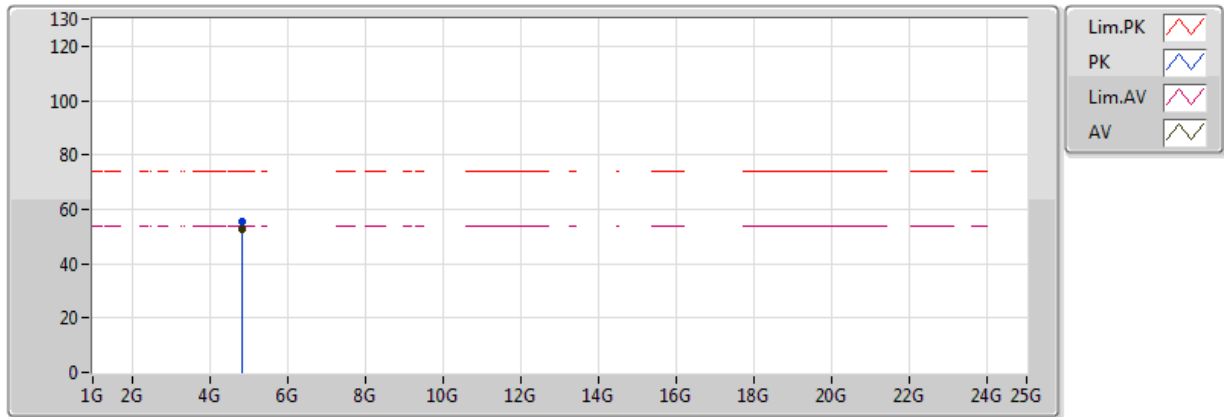


20171204
EUT Y 2TX
Setting: 1E
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.824G	47.33	54.00	-6.67	4.06	3	Vertical	254	1.09					
PK	4.82392G	51.31	74.00	-22.69	4.06	3	Vertical	254	1.09					

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

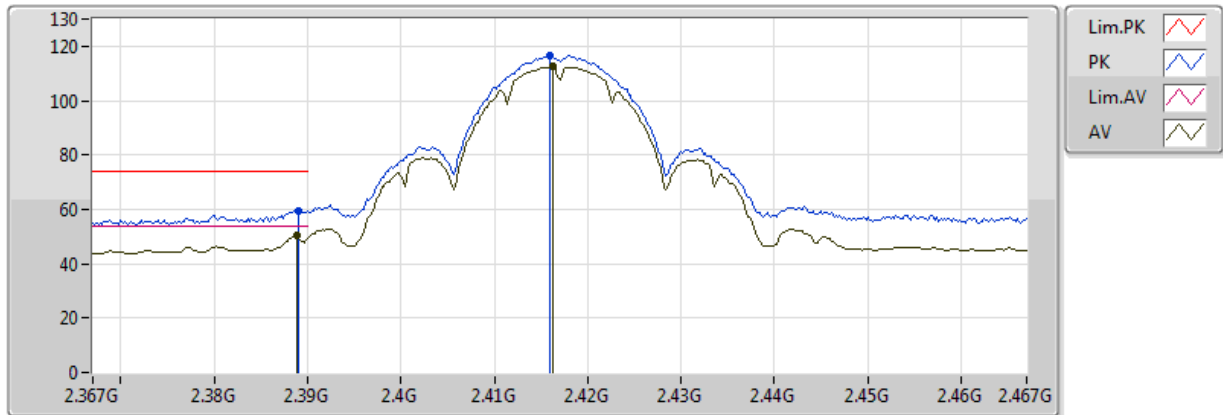


20171204
EUT Y 2TX
Setting: 1E
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.82399G	52.77	54.00	-1.23	4.06	3	Horizontal	296	1.00					
PK	4.82402G	55.34	74.00	-18.66	4.06	3	Horizontal	296	1.00					

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

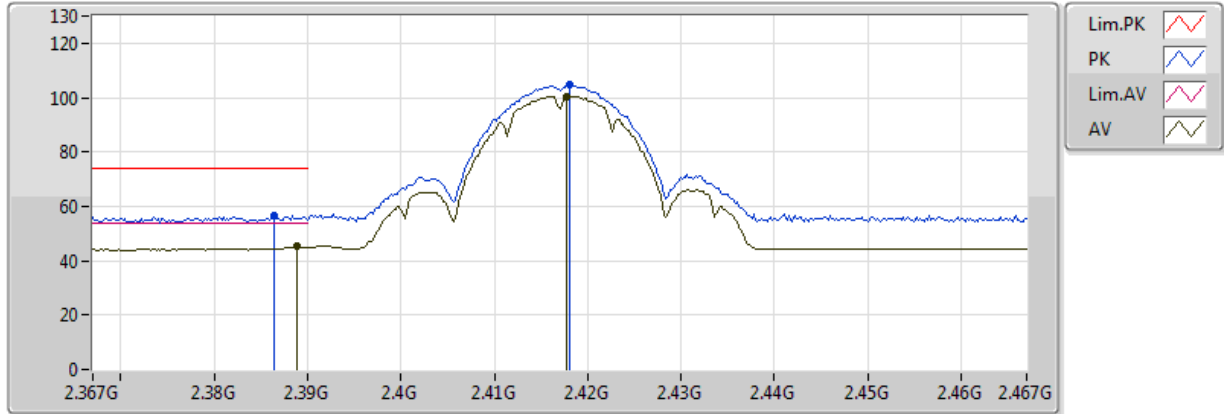


20171204
EUT Y 2TX
Setting : 1E
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	50.19	54.00	-3.81	29.93	3	Vertical	336	1.59					
AV	2.4162G	112.53	Inf	-Inf	30.05	3	Vertical	336	1.59					
PK	2.389G	59.40	74.00	-14.60	29.93	3	Vertical	336	1.59					
PK	2.416G	116.38	Inf	-Inf	30.05	3	Vertical	336	1.59					

802.11b_Nss1,(1Mbps)_2TX

2417MHz_TX

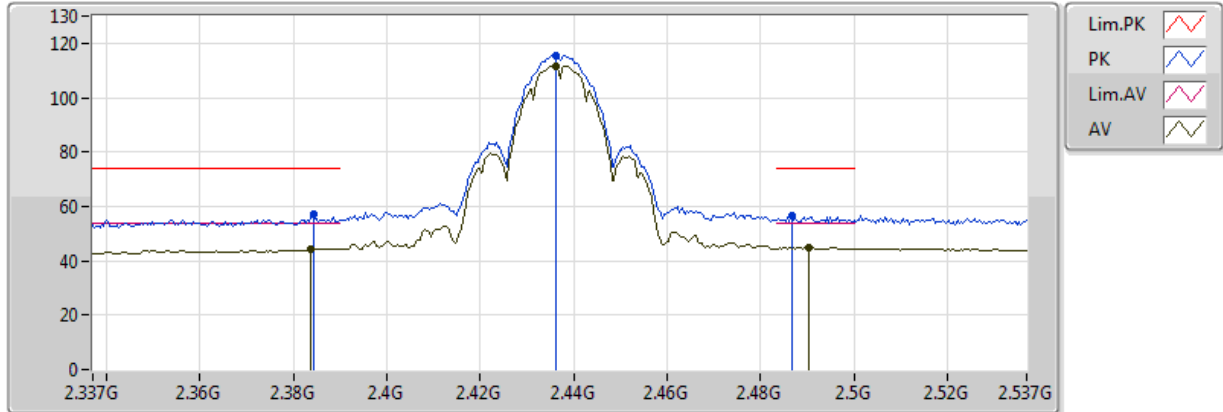


20171213
EUT Y_2TX
Setting 1E
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	45.15	54.00	-8.85	32.18	3	Horizontal	175	1.90					
AV	2.4178G	100.56	Inf	-Inf	32.26	3	Horizontal	175	1.90					
PK	2.3864G	56.71	74.00	-17.29	32.17	3	Horizontal	175	1.90					
PK	2.418G	104.84	Inf	-Inf	32.26	3	Horizontal	175	1.90					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

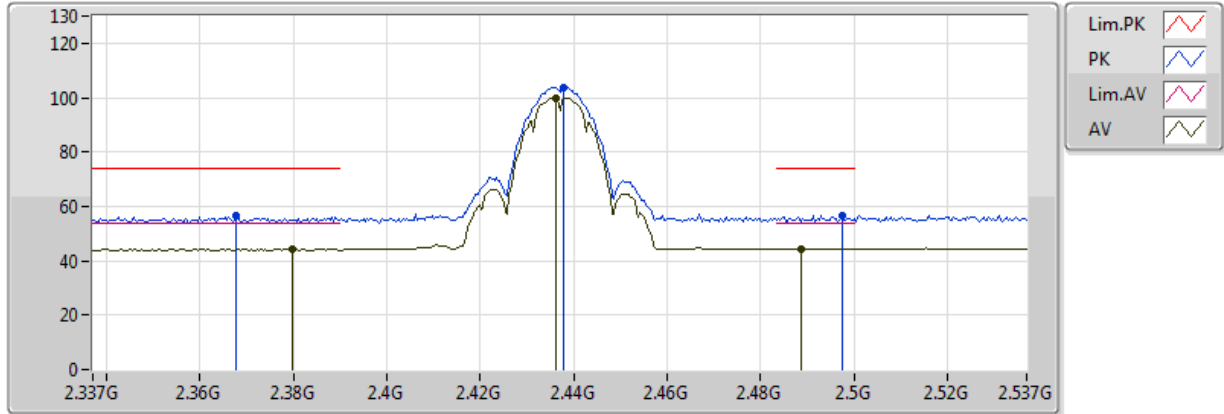


20171204
EUT Y 2TX
Setting: 1E
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3838G	44.40	54.00	-9.60	29.92	3	Vertical	347	1.35					
AV	2.4362G	111.73	Inf	-Inf	30.19	3	Vertical	347	1.35					
AV	2.4902G	44.91	54.00	-9.09	30.55	3	Vertical	347	1.35					
PK	2.3842G	56.97	74.00	-17.03	29.92	3	Vertical	347	1.35					
PK	2.4362G	115.60	Inf	-Inf	30.19	3	Vertical	347	1.35					
PK	2.4866G	56.36	74.00	-17.64	30.53	3	Vertical	347	1.35					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

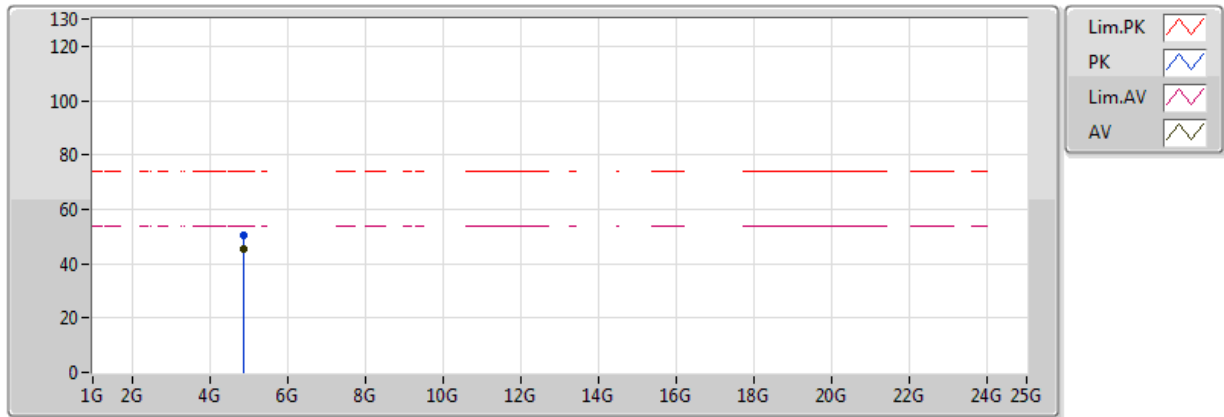


20171213
EUT Y_2TX
Setting 1E
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3798G	44.24	54.00	-9.76	32.15	3	Horizontal	169	1.40					
AV	2.4362G	100.01	Inf	-Inf	32.30	3	Horizontal	169	1.40					
AV	2.4886G	44.37	54.00	-9.63	32.43	3	Horizontal	169	1.40					
PK	2.3678G	56.51	74.00	-17.49	32.12	3	Horizontal	169	1.40					
PK	2.4378G	103.91	Inf	-Inf	32.31	3	Horizontal	169	1.40					
PK	2.4974G	56.75	74.00	-17.25	32.45	3	Horizontal	169	1.40					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

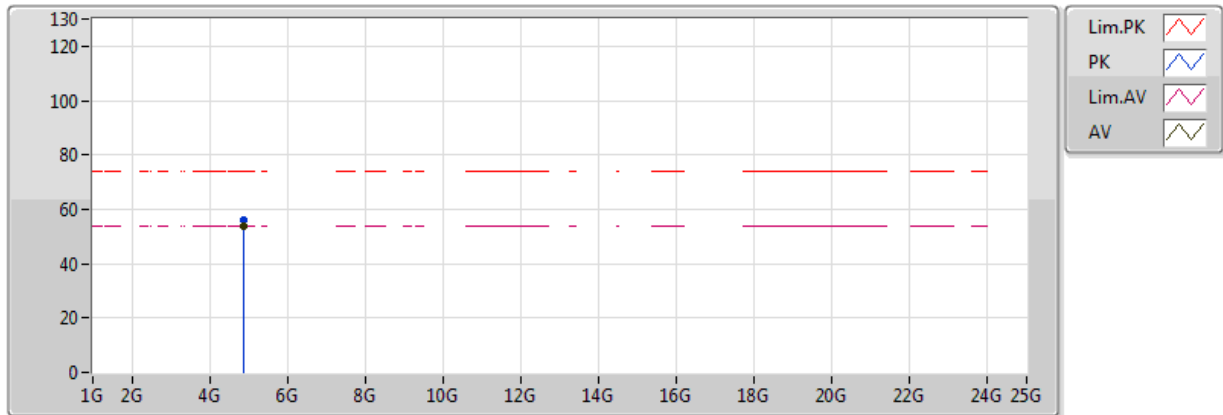


20171204
EUT Y 2TX
Setting: 1E
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.874G	45.50	54.00	-8.50	4.25	3	Vertical	138	1.50					
PK	4.87388G	50.24	74.00	-23.76	4.25	3	Vertical	138	1.50					

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

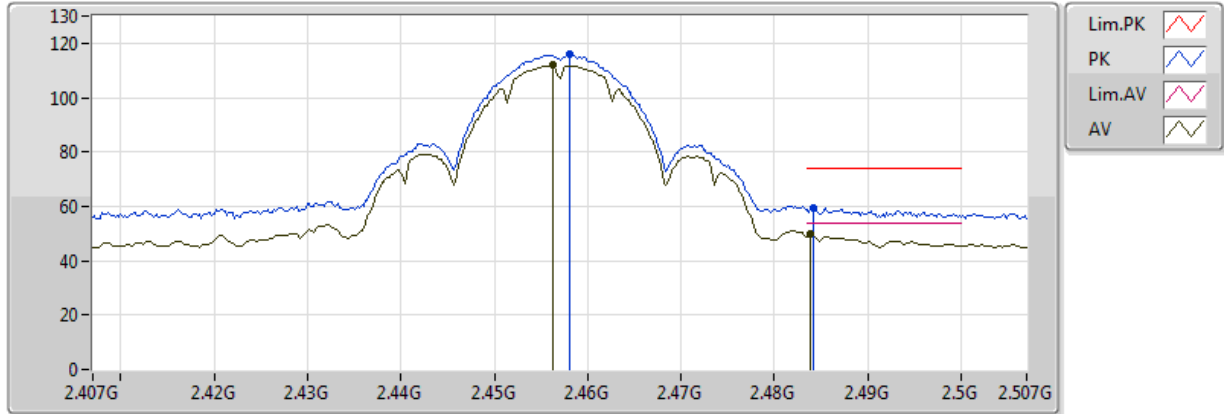


20171204
EUT Y 2TX
Setting: 1E
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.874G	53.67	54.00	-0.33	4.25	3	Horizontal	298	1.01					
PK	4.87405G	55.94	74.00	-18.06	4.25	3	Horizontal	298	1.01					

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

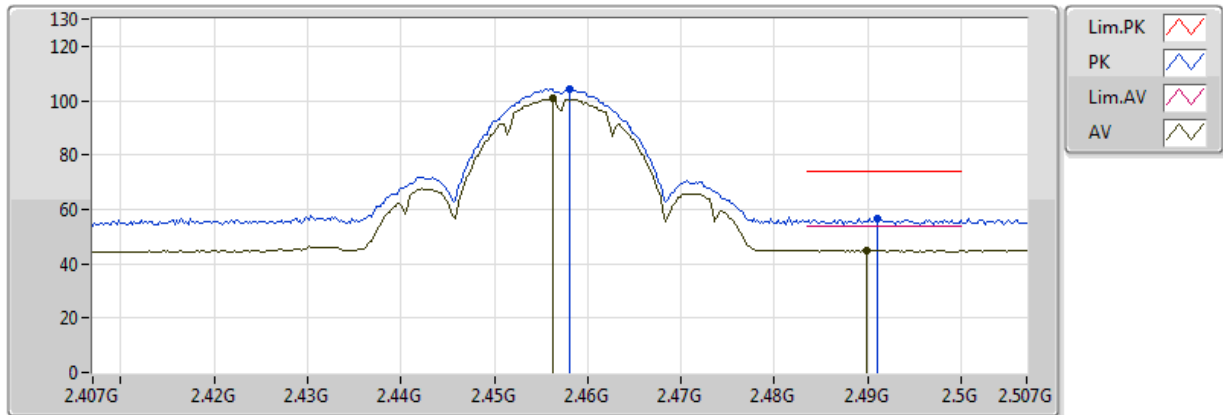


20171204
EUT Y 2TX
Setting : 1E
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4562G	111.83	Inf	-Inf	30.32	3	Vertical	337	1.64					
AV	2.4838G	49.64	54.00	-4.36	30.51	3	Vertical	337	1.64					
PK	2.458G	115.80	Inf	-Inf	30.33	3	Vertical	337	1.64					
PK	2.4842G	59.63	74.00	-14.37	30.51	3	Vertical	337	1.64					

802.11b_Nss1,(1Mbps)_2TX

2457MHz_TX

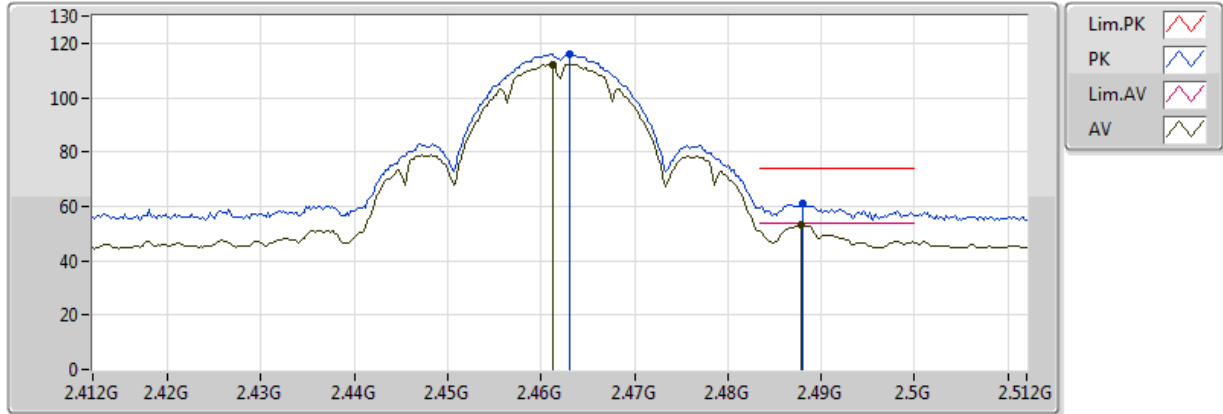


20171213
EUT Y_2TX
Setting 1E
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4562G	100.70	Inf	-Inf	32.35	3	Horizontal	174	1.77					
AV	2.4898G	44.93	54.00	-9.07	32.43	3	Horizontal	174	1.77					
PK	2.458G	104.33	Inf	-Inf	32.36	3	Horizontal	174	1.77					
PK	2.491G	56.82	74.00	-17.18	32.44	3	Horizontal	174	1.77					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

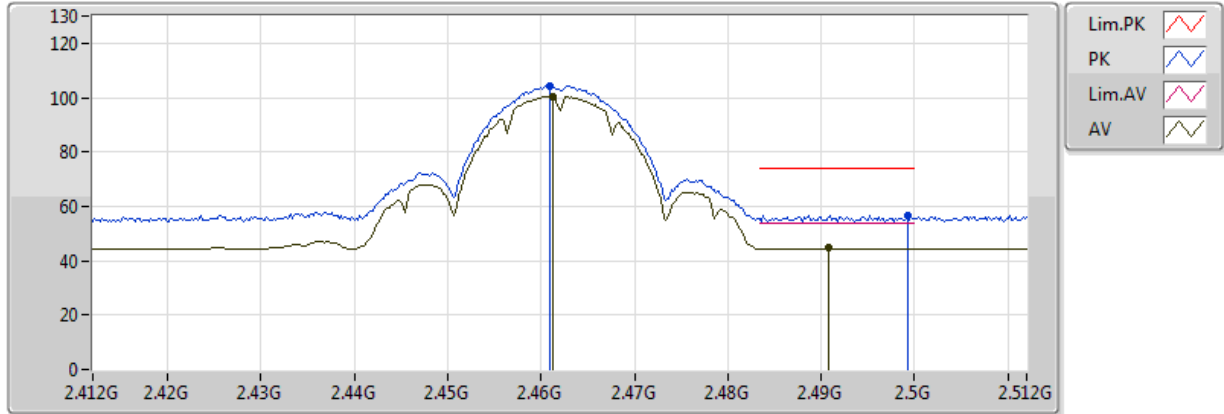


20171204
EUT Y 2TX
Setting: 1E
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4612G	112.19	Inf	-Inf	30.36	3	Vertical	344	1.55					
AV	2.4878G	53.16	54.00	-0.84	30.54	3	Vertical	344	1.55					
PK	2.463G	116.06	Inf	-Inf	30.37	3	Vertical	344	1.55					
PK	2.488G	61.09	74.00	-12.91	30.54	3	Vertical	344	1.55					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

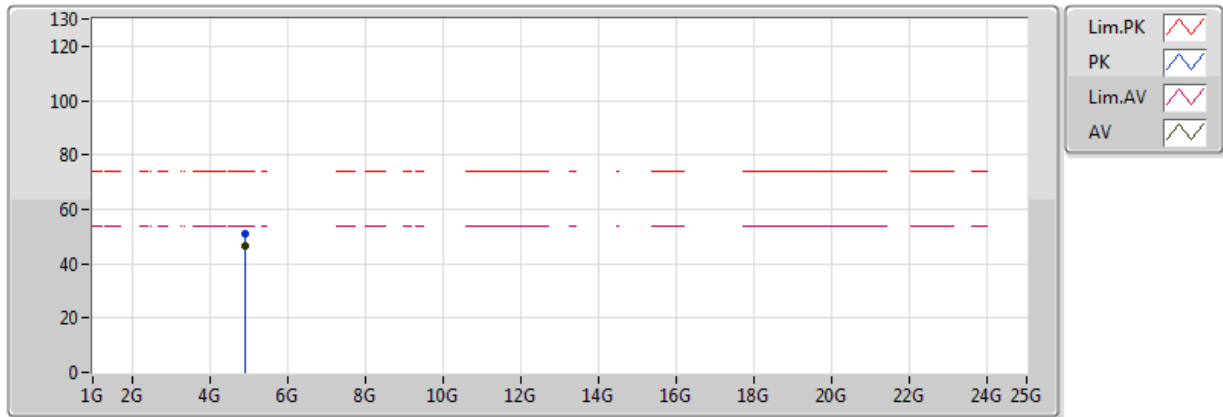


20171213
EUT Y_2TX
Setting 1E
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4612G	100.55	Inf	-Inf	32.36	3	Horizontal	173	1.77					
AV	2.4908G	44.56	54.00	-9.44	32.44	3	Horizontal	173	1.77					
PK	2.461G	104.37	Inf	-Inf	32.36	3	Horizontal	173	1.77					
PK	2.4992G	56.74	74.00	-17.26	32.46	3	Horizontal	173	1.77					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

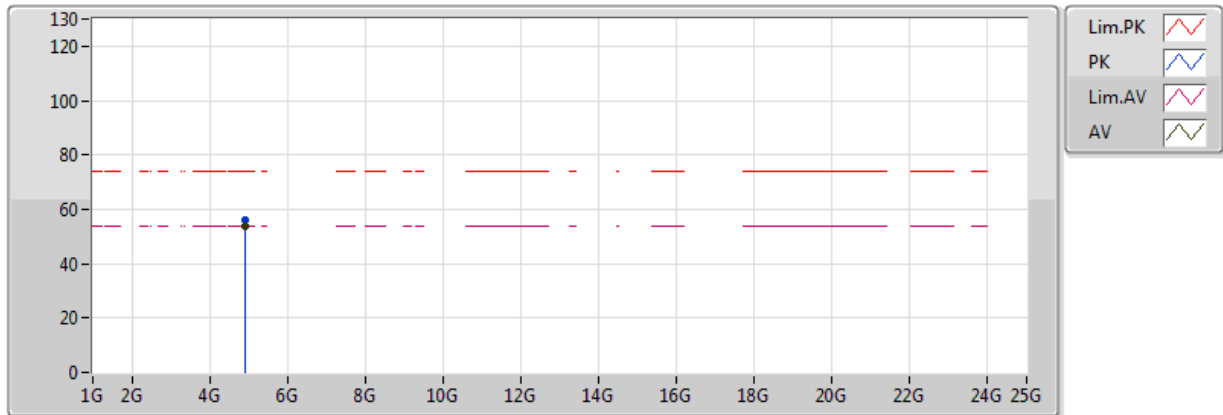


20171204
EUT Y 2TX
Setting: 1E
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.924G	46.61	54.00	-7.39	4.44	3	Vertical	139	1.75					
PK	4.924G	51.18	74.00	-22.82	4.44	3	Vertical	139	1.75					

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

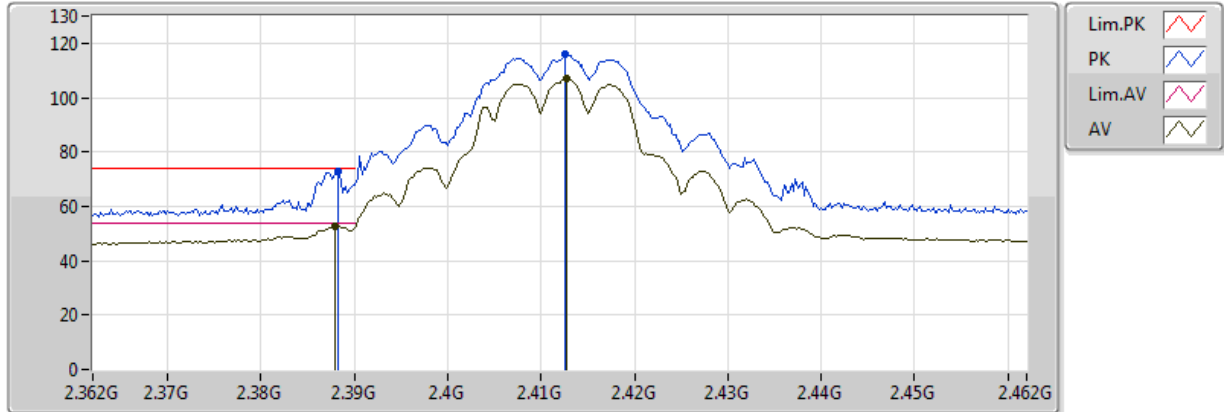


20171204
EUT Y 2TX
Setting: 1E
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.924G	53.83	54.00	-0.17	4.44	3	Horizontal	307	1.00					
PK	4.924G	55.93	74.00	-18.07	4.44	3	Horizontal	307	1.00					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

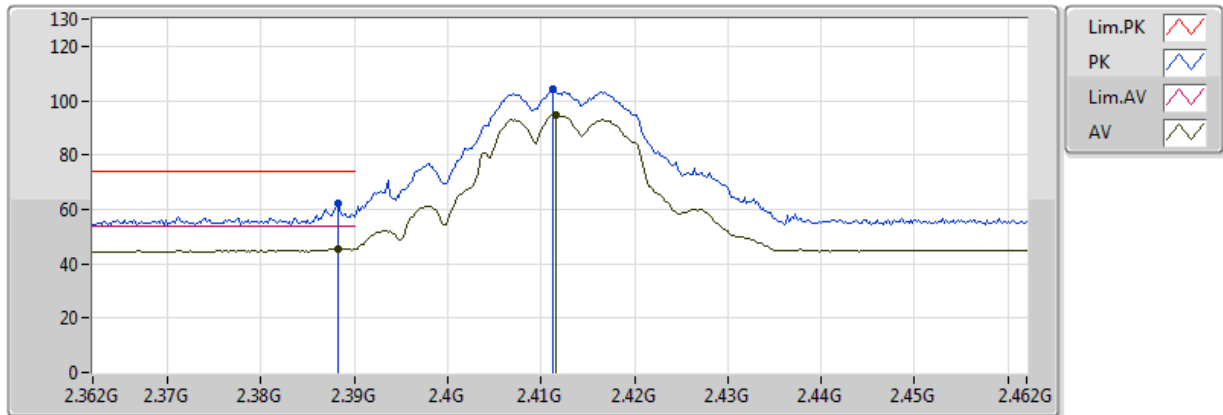


20171204
EUT Y 2TX
Setting : 19
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.388G	52.90	54.00	-1.10	29.93	3	Vertical	350	1.57					
AV	2.4128G	106.76	Inf	-Inf	30.03	3	Vertical	350	1.57					
PK	2.3882G	72.75	74.00	-1.25	29.93	3	Vertical	350	1.57					
PK	2.4126G	116.02	Inf	-Inf	30.03	3	Vertical	350	1.57					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

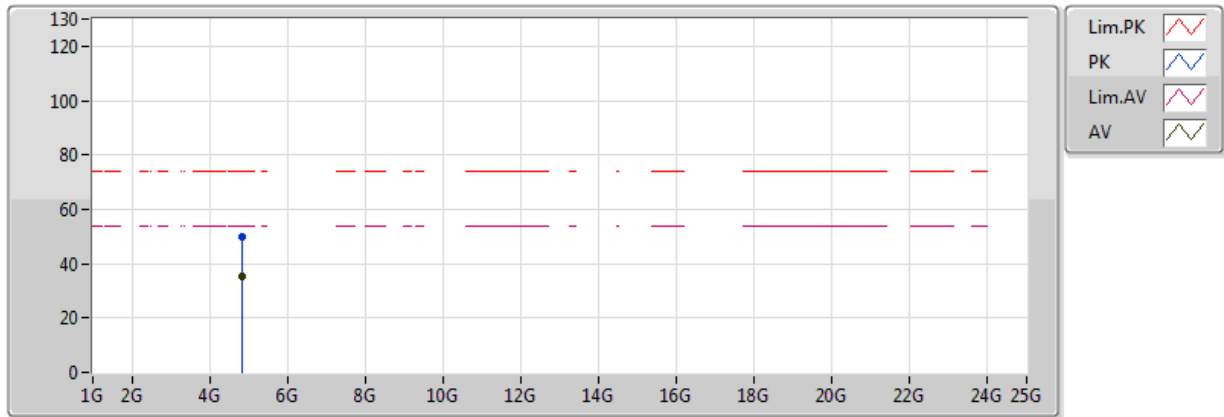


20171213
EUT Y_2TX
Setting 19
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3882G	45.41	54.00	-8.59	32.18	3	Horizontal	179	2.24					
AV	2.4116G	94.80	Inf	-Inf	32.24	3	Horizontal	179	2.24					
PK	2.3882G	62.02	74.00	-11.98	32.18	3	Horizontal	179	2.24					
PK	2.4112G	104.20	Inf	-Inf	32.24	3	Horizontal	179	2.24					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

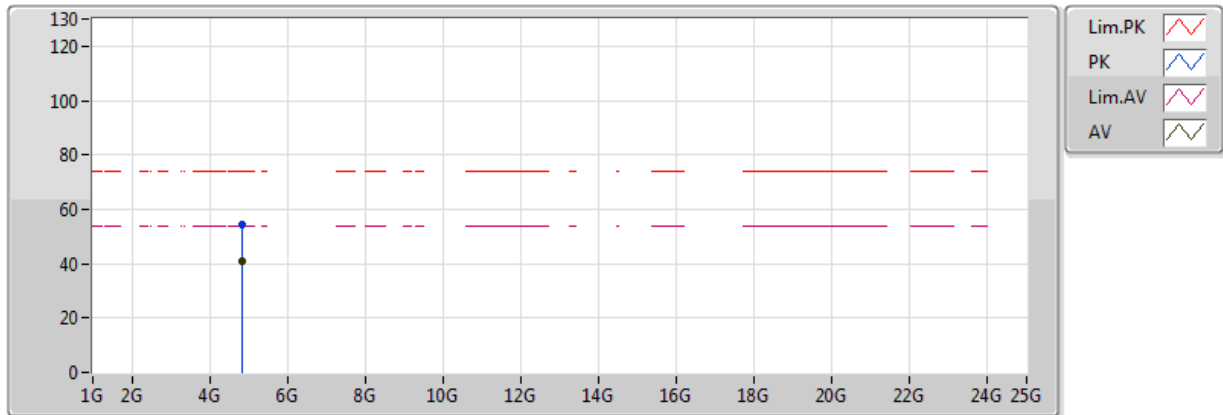


20171204
EUT Y 2TX
Setting : 19
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8255G	35.39	54.00	-18.61	4.07	3	Vertical	87	1.23					
PK	4.82592G	49.61	74.00	-24.39	4.07	3	Vertical	87	1.23					

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

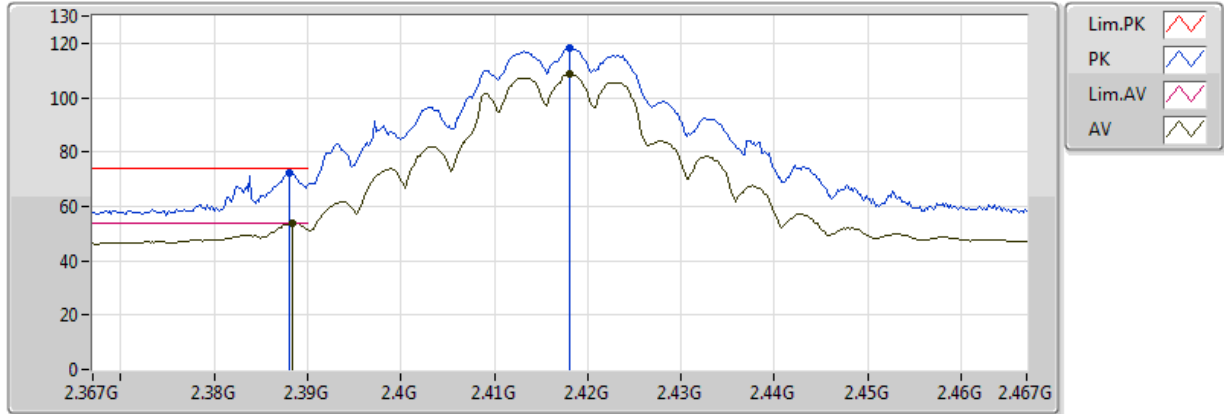


20171204
EUT Y 2TX
Setting : 19
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.82514G	40.73	54.00	-13.27	4.07	3	Horizontal	290	1.05					
PK	4.82028G	54.21	74.00	-19.79	4.05	3	Horizontal	290	1.05					

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

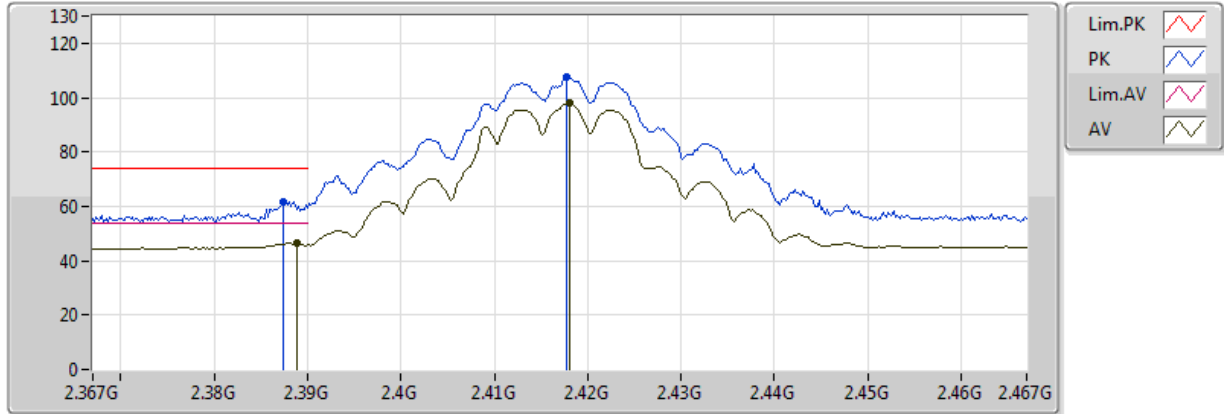


20171204
EUT Y 2TX
Setting : 1E
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3884G	53.77	54.00	-0.23	29.93	3	Vertical	347	1.61					
AV	2.418G	108.86	Inf	-Inf	30.06	3	Vertical	347	1.61					
PK	2.388G	72.08	74.00	-1.92	29.93	3	Vertical	347	1.61					
PK	2.418G	118.07	Inf	-Inf	30.06	3	Vertical	347	1.61					

802.11g_Nss1,(6Mbps)_2TX

2417MHz_TX

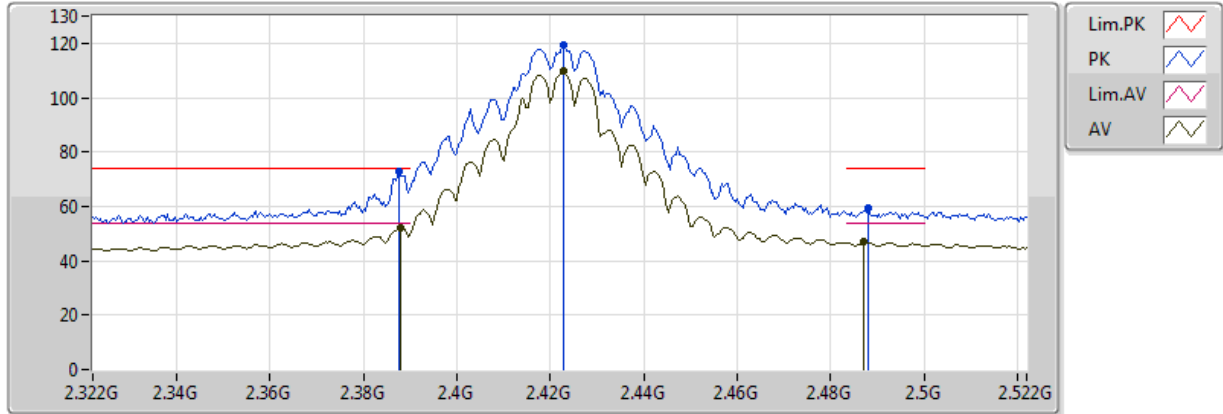


20171213
EUT Y_2TX
Setting 1E
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	46.29	54.00	-7.71	32.18	3	Horizontal	174	1.89					
AV	2.418G	97.95	Inf	-Inf	32.26	3	Horizontal	174	1.89					
PK	2.3874G	61.86	74.00	-12.14	32.18	3	Horizontal	174	1.89					
PK	2.4178G	107.38	Inf	-Inf	32.26	3	Horizontal	174	1.89					

802.11g_Nss1,(6Mbps)_2TX

2422MHz_TX

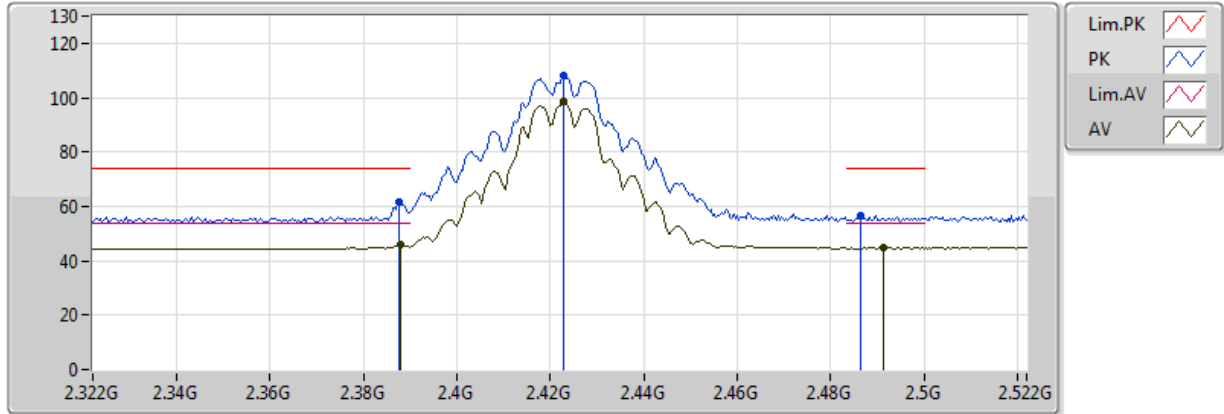


20171204
EUT Y 2TX
Setting : 25
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.388G	52.27	54.00	-1.73	29.93	3	Vertical	341	1.48					
AV	2.4228G	109.57	Inf	-Inf	30.10	3	Vertical	341	1.48					
AV	2.4872G	46.83	54.00	-7.17	30.53	3	Vertical	341	1.48					
PK	2.3876G	72.95	74.00	-1.05	29.93	3	Vertical	341	1.48					
PK	2.4228G	119.37	Inf	-Inf	30.10	3	Vertical	341	1.48					
PK	2.488G	59.23	74.00	-14.77	30.54	3	Vertical	341	1.48					

802.11g_Nss1,(6Mbps)_2TX

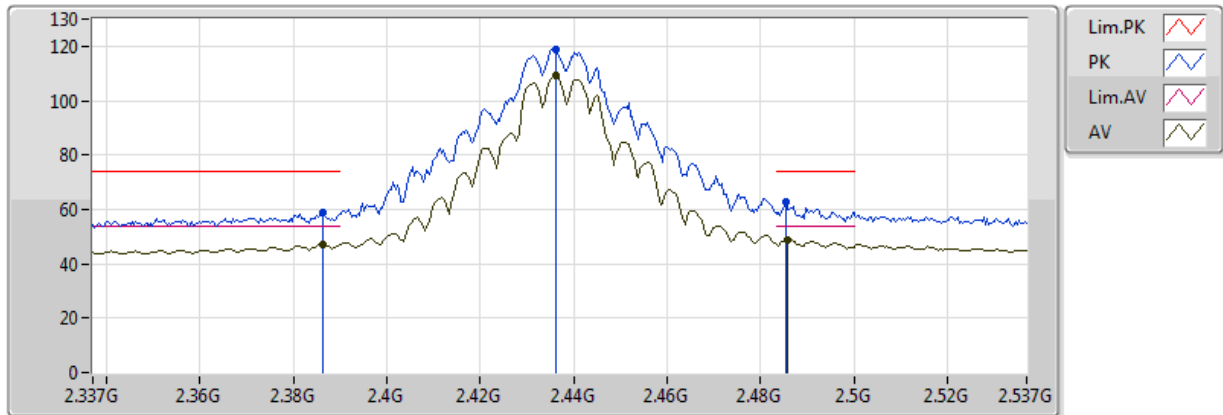
2422MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.388G	45.73	54.00	-8.27	32.18	3	Horizontal	173	1.89					
AV	2.4228G	98.51	Inf	-Inf	32.27	3	Horizontal	173	1.89					
AV	2.4912G	44.69	54.00	-9.31	32.44	3	Horizontal	173	1.89					
PK	2.3876G	61.85	74.00	-12.15	32.18	3	Horizontal	173	1.89					
PK	2.4228G	108.16	Inf	-Inf	32.27	3	Horizontal	173	1.89					
PK	2.4864G	56.48	74.00	-17.52	32.42	3	Horizontal	173	1.89					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

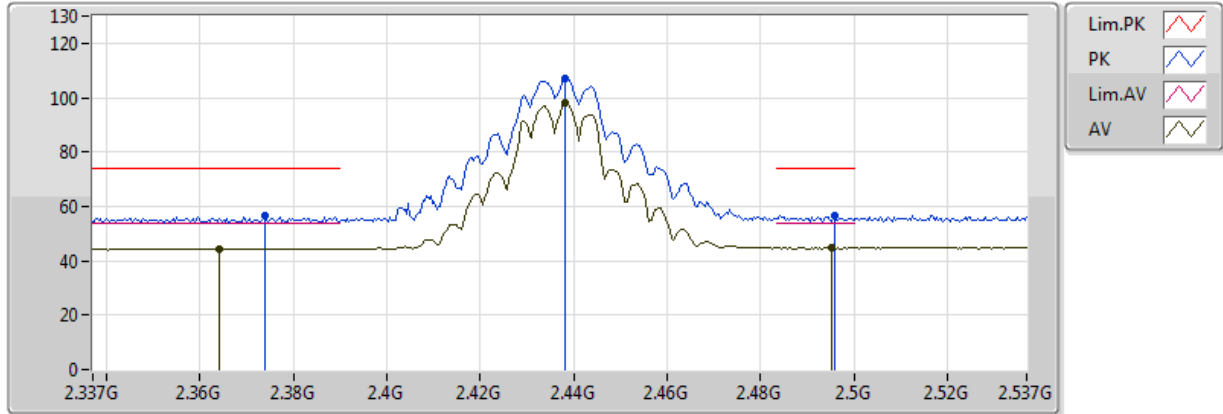


20171204
EUT Y 2TX
Setting : 25
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3862G	47.22	54.00	-6.78	29.93	3	Vertical	332	1.57					
AV	2.4362G	109.27	Inf	-Inf	30.19	3	Vertical	332	1.57					
AV	2.4858G	49.03	54.00	-4.97	30.52	3	Vertical	332	1.57					
PK	2.3862G	58.87	74.00	-15.13	29.93	3	Vertical	332	1.57					
PK	2.4362G	118.93	Inf	-Inf	30.19	3	Vertical	332	1.57					
PK	2.4854G	62.80	74.00	-11.20	30.52	3	Vertical	332	1.57					

802.11g_Nss1,(6Mbps)_2TX

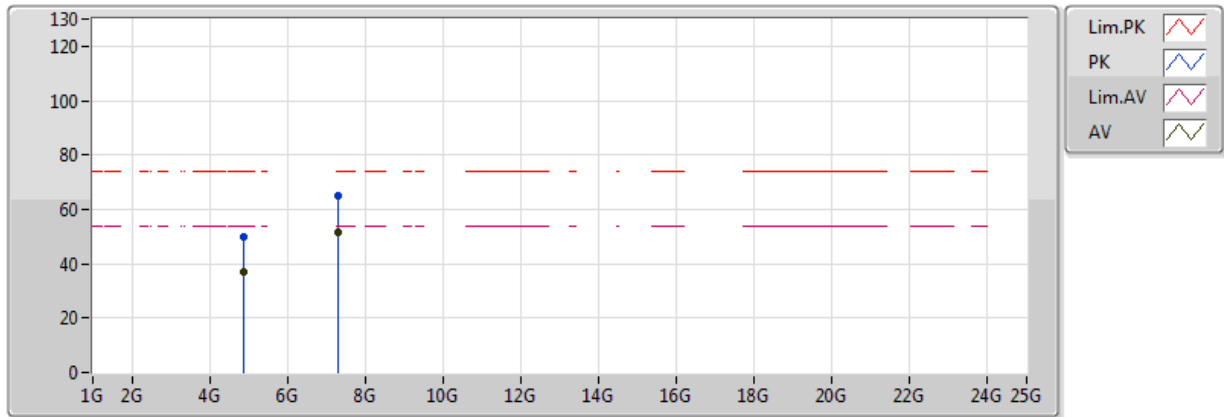
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3642G	44.43	54.00	-9.57	32.11	3	Horizontal	151	1.49					
AV	2.4382G	97.79	Inf	-Inf	32.31	3	Horizontal	151	1.49					
AV	2.4954G	44.78	54.00	-9.22	32.45	3	Horizontal	151	1.49					
PK	2.3738G	56.50	74.00	-17.50	32.14	3	Horizontal	151	1.49					
PK	2.4382G	106.98	Inf	-Inf	32.31	3	Horizontal	151	1.49					
PK	2.4958G	56.52	74.00	-17.48	32.45	3	Horizontal	151	1.49					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

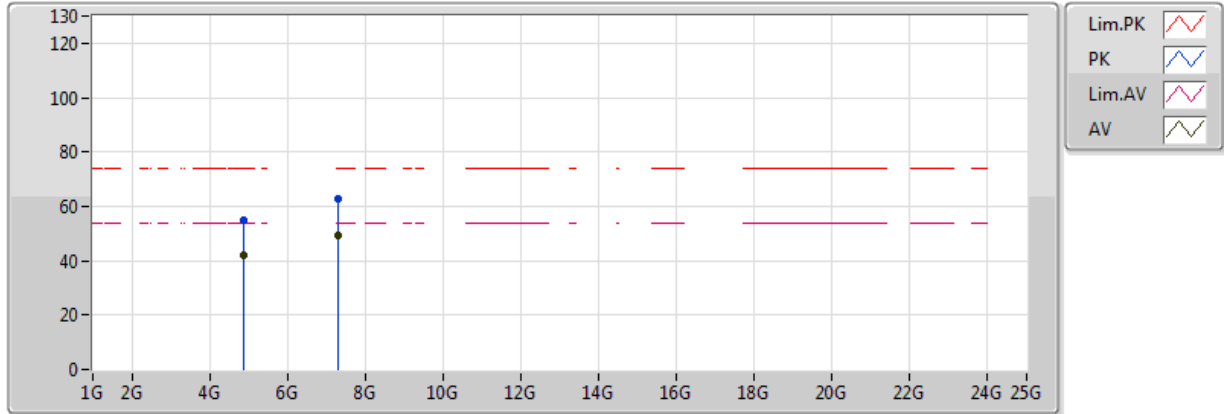


20171204
EUT Y 2TX
Setting : 25
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8755G	37.06	54.00	-16.94	4.26	3	Vertical	75	1.17					
AV	7.308G	51.76	54.00	-2.24	10.14	3	Vertical	0	2.05					
PK	4.87022G	50.06	74.00	-23.94	4.24	3	Vertical	75	1.17					
PK	7.30734G	65.19	74.00	-8.81	10.14	3	Vertical	0	2.05					

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

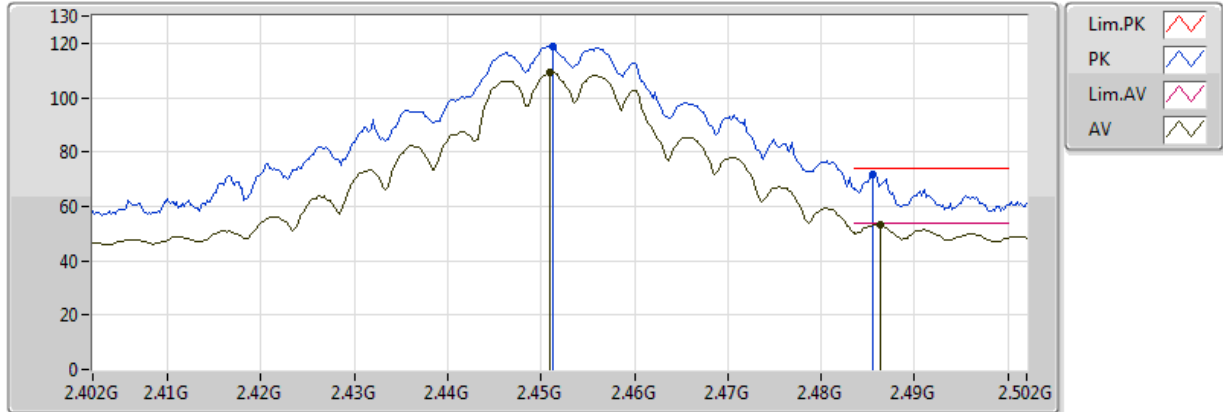


20171204
EUT Y 2TX
Setting : 25
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.87496G	42.04	54.00	-11.96	4.25	3	Horizontal	291	1.02					
AV	7.31322G	49.16	54.00	-4.84	10.15	3	Horizontal	274	1.03					
PK	4.87028G	54.90	74.00	-19.10	4.24	3	Horizontal	291	1.02					
PK	7.30854G	63.02	74.00	-10.98	10.15	3	Horizontal	274	1.03					

802.11g_Nss1,(6Mbps)_2TX

2452MHz_TX

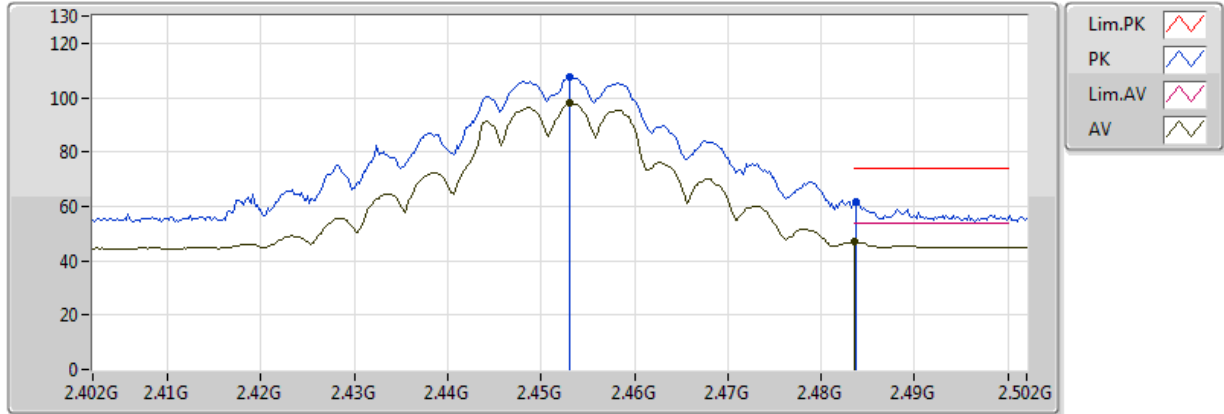


20171204
EUT Y 2TX
Setting : 25
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.451G	109.34	Inf	-Inf	30.29	3	Vertical	181	1.50					
AV	2.4864G	53.13	54.00	-0.87	30.53	3	Vertical	181	1.50					
PK	2.4512G	119.00	Inf	-Inf	30.29	3	Vertical	181	1.50					
PK	2.4856G	71.84	74.00	-2.16	30.52	3	Vertical	181	1.50					

802.11g_Nss1,(6Mbps)_2TX

2452MHz_TX

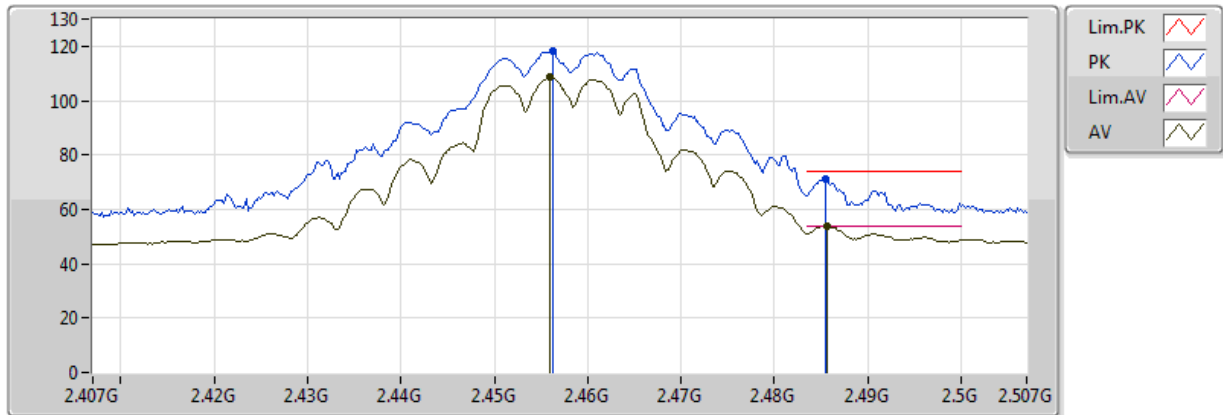


20171213
EUT Y_2TX
Setting 25
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.453G	98.05	Inf	-Inf	32.34	3	Horizontal	177	1.50					
AV	2.483502G	47.07	54.00	-6.93	32.42	3	Horizontal	177	1.50					
PK	2.453G	107.35	Inf	-Inf	32.34	3	Horizontal	177	1.50					
PK	2.4838G	61.56	74.00	-12.44	32.42	3	Horizontal	177	1.50					

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

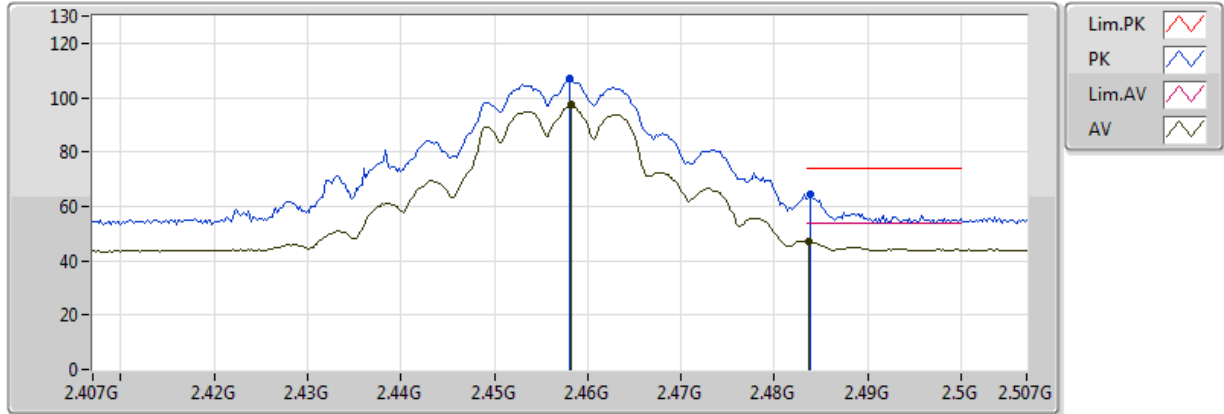


20171204
EUT Y 2TX
Setting : 1E
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.456G	108.60	Inf	-Inf	30.32	3	Vertical	183	1.48					
AV	2.4856G	53.92	54.00	-0.08	30.52	3	Vertical	183	1.48					
PK	2.4562G	118.14	Inf	-Inf	30.32	3	Vertical	183	1.48					
PK	2.4854G	70.92	74.00	-3.08	30.52	3	Vertical	183	1.48					

802.11g_Nss1,(6Mbps)_2TX

2457MHz_TX

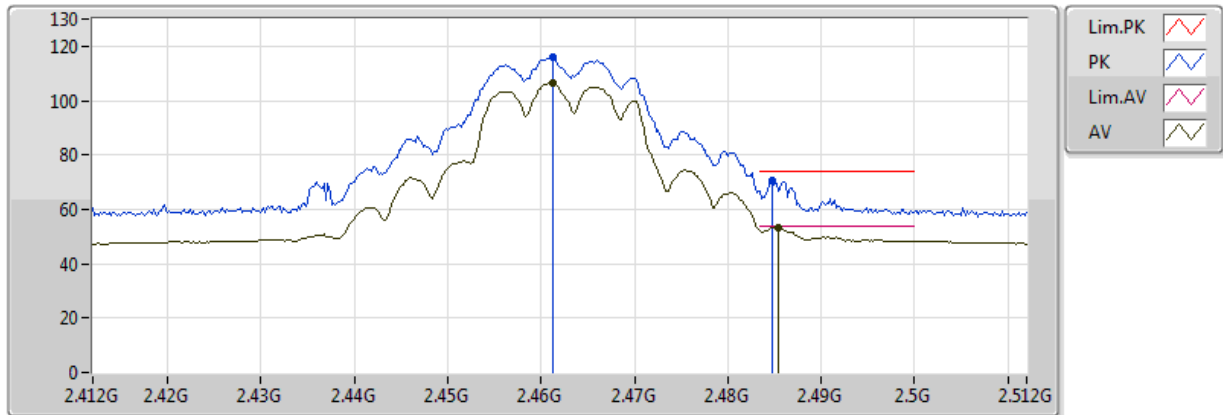


20171213
EUT Y_2TX
Setting 1E
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4582G	97.59	Inf	-Inf	32.36	3	Horizontal	171	1.49					
AV	2.4836G	47.19	54.00	-6.81	32.42	3	Horizontal	171	1.49					
PK	2.458G	106.81	Inf	-Inf	32.36	3	Horizontal	171	1.49					
PK	2.4838G	64.37	74.00	-9.63	32.42	3	Horizontal	171	1.49					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

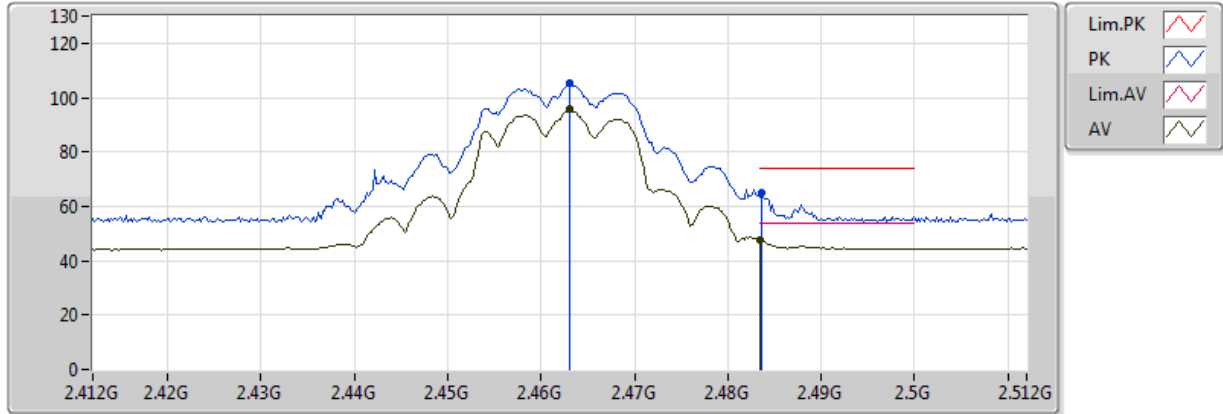


20171204
EUT Y 2TX
Setting : 19
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4612G	106.55	Inf	-Inf	30.36	3	Vertical	191	1.58					
AV	2.4854G	53.49	54.00	-0.51	30.52	3	Vertical	191	1.58					
PK	2.4612G	115.74	Inf	-Inf	30.36	3	Vertical	191	1.58					
PK	2.4848G	70.56	74.00	-3.44	30.52	3	Vertical	191	1.58					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

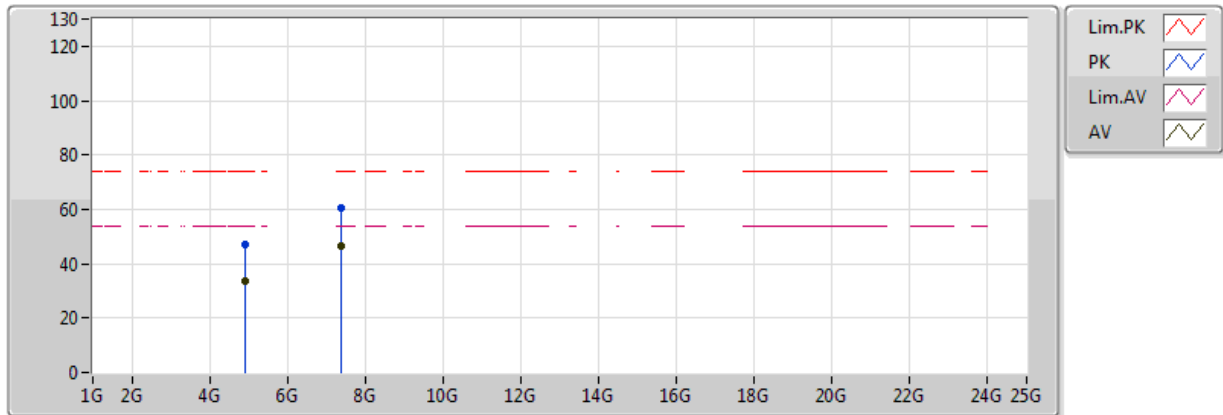


20171213
EUT Y_2TX
Setting 19
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.463G	95.56	Inf	-Inf	32.37	3	Horizontal	175	1.76					
AV	2.483502G	47.86	54.00	-6.14	32.42	3	Horizontal	175	1.76					
PK	2.463G	105.21	Inf	-Inf	32.37	3	Horizontal	175	1.76					
PK	2.4836G	64.88	74.00	-9.12	32.42	3	Horizontal	175	1.76					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

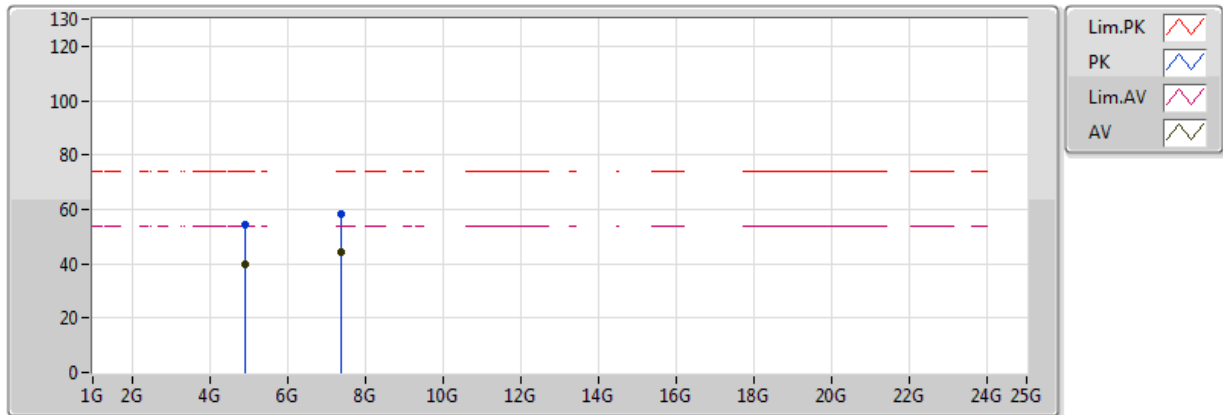


20171204
EUT Y 2TX
Setting : 19
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.92538G	33.70	54.00	-20.30	4.44	3	Vertical	132	1.31					
AV	7.38816G	46.34	54.00	-7.66	10.19	3	Vertical	351	2.17					
PK	4.93G	47.15	74.00	-26.85	4.46	3	Vertical	132	1.31					
PK	7.38768G	60.29	74.00	-13.71	10.19	3	Vertical	351	2.17					

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

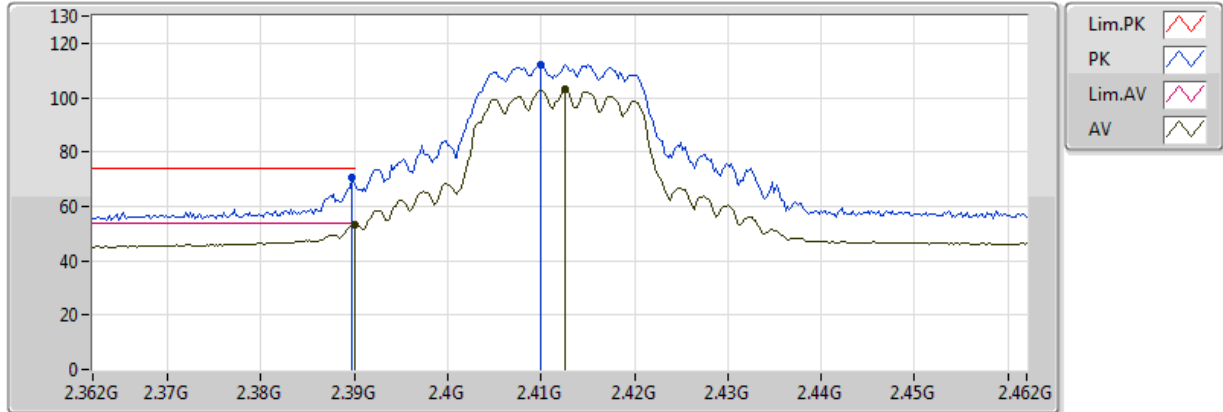


20171204
EUT Y 2TX
Setting : 19
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.92568G	39.87	54.00	-14.13	4.45	3	Horizontal	300	1.01					
AV	7.3881G	44.18	54.00	-9.82	10.19	3	Horizontal	0	2.08					
PK	4.92028G	54.11	74.00	-19.89	4.43	3	Horizontal	300	1.01					
PK	7.38282G	58.16	74.00	-15.84	10.19	3	Horizontal	0	2.08					

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

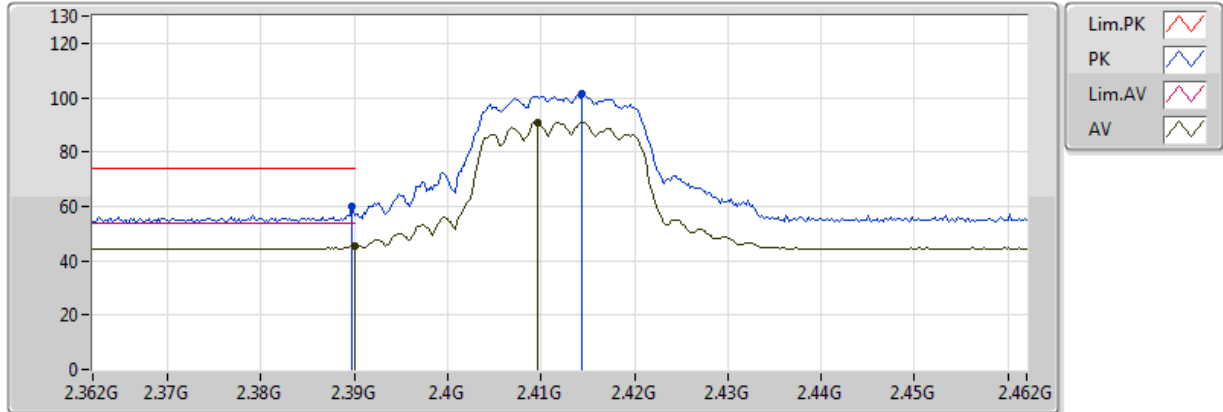


20171204
EUT Y 2TX
Setting : 13
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	53.46	54.00	-0.54	29.93	3	Vertical	353	1.59					
AV	2.4126G	102.95	Inf	-Inf	30.03	3	Vertical	353	1.59					
PK	2.3898G	70.38	74.00	-3.62	29.93	3	Vertical	353	1.59					
PK	2.41G	112.16	Inf	-Inf	30.01	3	Vertical	353	1.59					

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

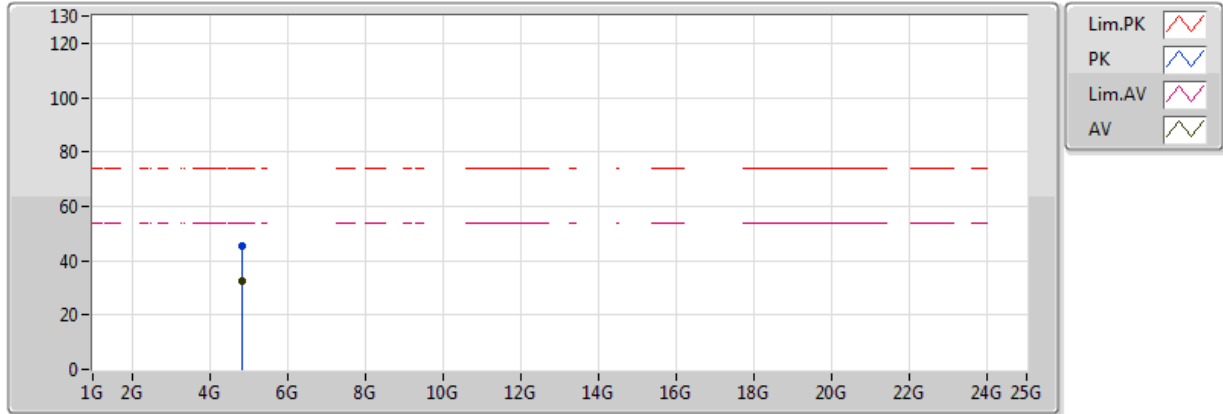


20171213
EUT Y_2TX
Setting 13
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.39G	45.37	54.00	-8.63	32.18	3	Horizontal	180	2.23					
AV	2.4096G	90.97	Inf	-Inf	32.24	3	Horizontal	180	2.23					
PK	2.3898G	59.73	74.00	-14.27	32.18	3	Horizontal	180	2.23					
PK	2.4144G	101.36	Inf	-Inf	32.25	3	Horizontal	180	2.23					

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

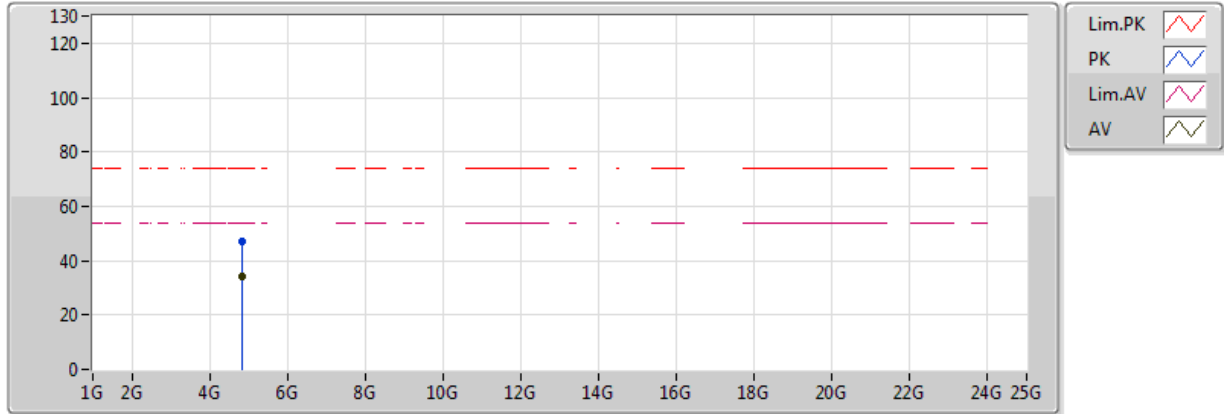


20171204
EUT Y 2TX
Setting: 13
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8333G	32.27	54.00	-21.73	4.10	3	Vertical	0	1.50					
PK	4.82334G	45.46	74.00	-28.54	4.06	3	Vertical	0	1.50					

802.11n HT20_Nss1,(MCS0)_2TX

2412MHz_TX

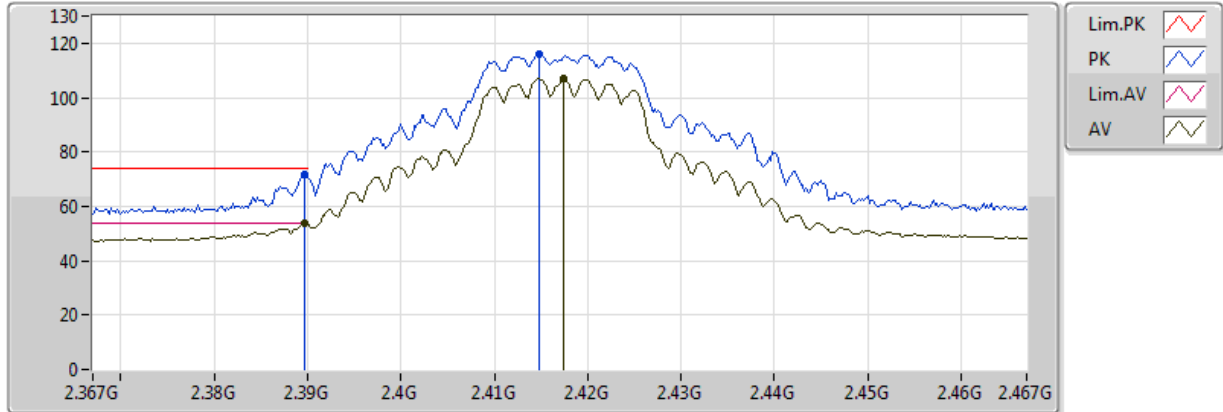


20171204
EUT Y 2TX
Setting : 13
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8219G	33.96	54.00	-20.04	4.05	3	Horizontal	358	1.50					
PK	4.82436G	47.26	74.00	-26.74	4.06	3	Horizontal	358	1.50					

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

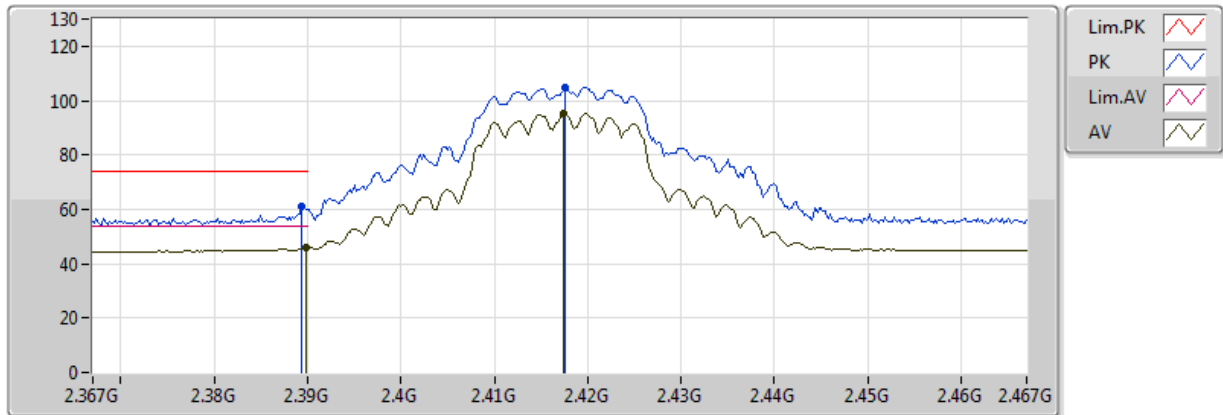


20171204
EUT Y 2TX
Setting : 1B
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3896G	53.79	54.00	-0.21	29.93	3	Vertical	340	1.57					
AV	2.4174G	106.99	Inf	-Inf	30.06	3	Vertical	340	1.57					
PK	2.3896G	71.94	74.00	-2.06	29.93	3	Vertical	340	1.57					
PK	2.4148G	115.85	Inf	-Inf	30.04	3	Vertical	340	1.57					

802.11n HT20_Nss1,(MCS0)_2TX

2417MHz_TX

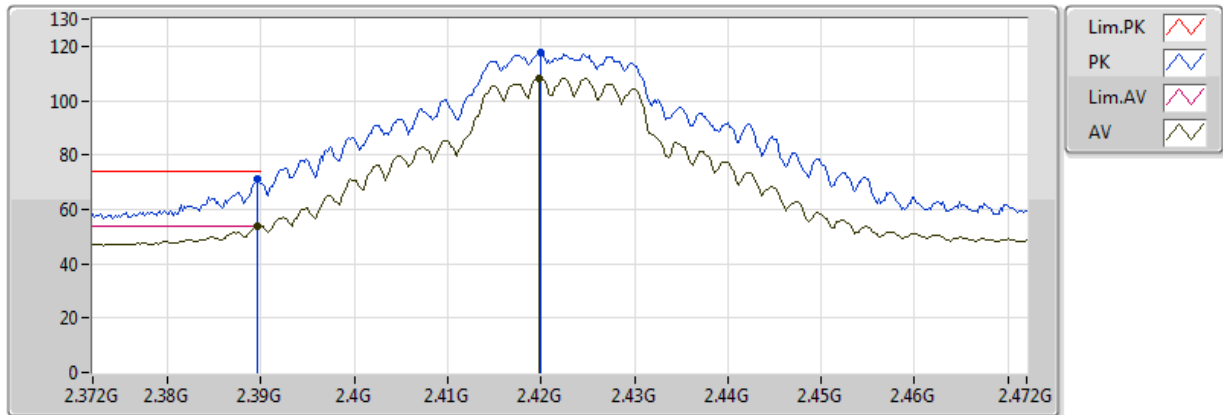


20171213
EUT Y_2TX
Setting 1B
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3898G	45.85	54.00	-8.15	32.18	3	Horizontal	174	1.89					
AV	2.4174G	95.44	Inf	-Inf	32.26	3	Horizontal	174	1.89					
PK	2.3894G	61.22	74.00	-12.78	32.18	3	Horizontal	174	1.89					
PK	2.4176G	104.66	Inf	-Inf	32.26	3	Horizontal	174	1.89					

802.11n HT20_Nss1,(MCS0)_2TX

2422MHz_TX

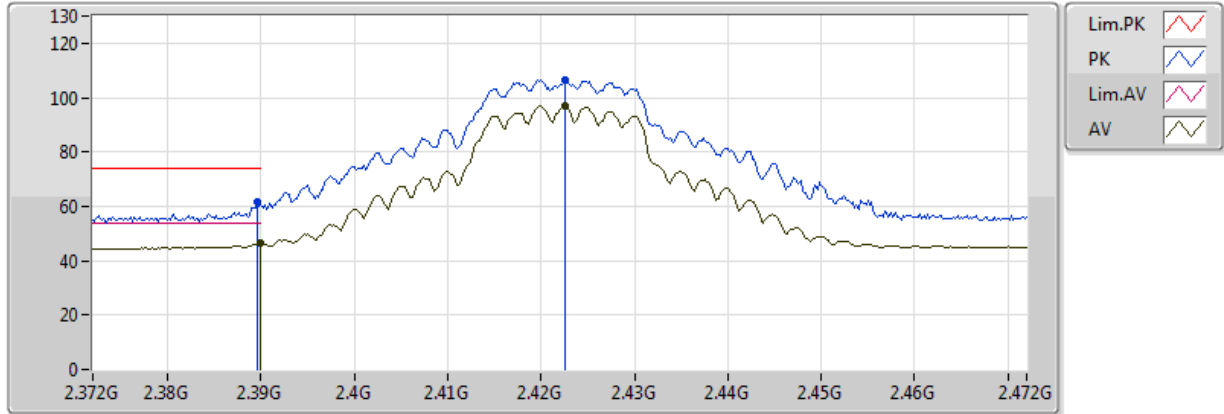


20171204
EUT Y 2TX
Setting : 1F
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3896G	53.98	54.00	-0.02	29.93	3	Vertical	340	1.53					
AV	2.4198G	108.33	Inf	-Inf	30.07	3	Vertical	340	1.53					
PK	2.3896G	71.15	74.00	-2.85	29.93	3	Vertical	340	1.53					
PK	2.42G	117.46	Inf	-Inf	30.08	3	Vertical	340	1.53					

802.11n HT20_Nss1,(MCS0)_2TX

2422MHz_TX

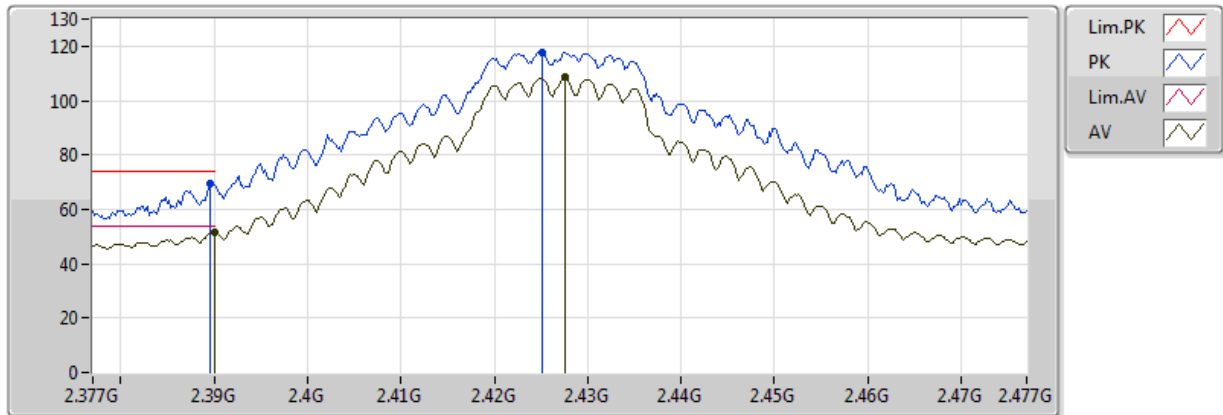


20171213
EUT Y_2TX
Setting 1F
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.39G	46.24	54.00	-7.76	32.18	3	Horizontal	174	1.90					
AV	2.4226G	97.06	Inf	-Inf	32.27	3	Horizontal	174	1.90					
PK	2.3896G	61.61	74.00	-12.39	32.18	3	Horizontal	174	1.90					
PK	2.4226G	106.55	Inf	-Inf	32.27	3	Horizontal	174	1.90					

802.11n HT20_Nss1,(MCS0)_2TX

2427MHz_TX

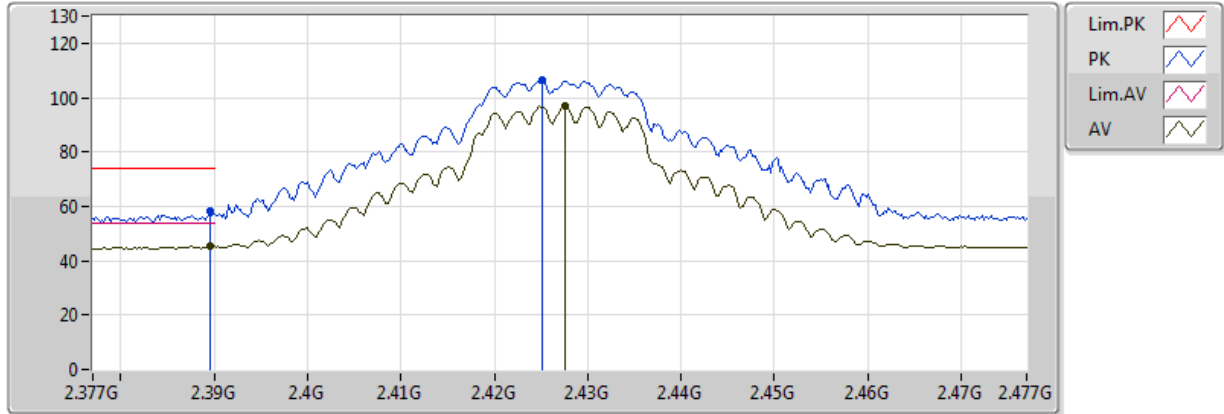


20171204
EUT Y 2TX
Setting : 25
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.39G	51.57	54.00	-2.43	29.93	3	Vertical	342	1.37					
AV	2.4276G	108.52	Inf	-Inf	30.13	3	Vertical	342	1.37					
PK	2.3896G	69.37	74.00	-4.63	29.93	3	Vertical	342	1.37					
PK	2.4252G	117.88	Inf	-Inf	30.11	3	Vertical	342	1.37					

802.11n HT20_Nss1,(MCS0)_2TX

2427MHz_TX

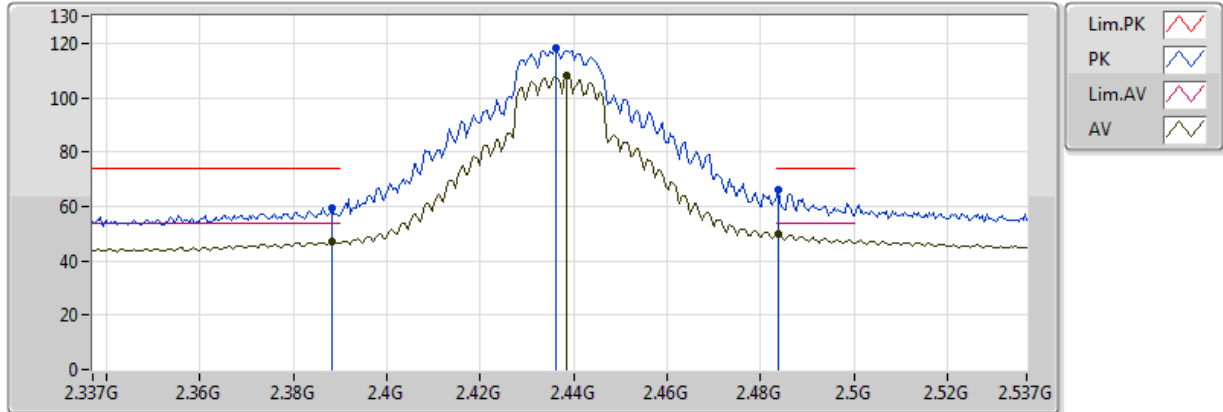


20171213
EUT Y_2TX
Setting 25
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3896G	45.31	54.00	-8.69	32.18	3	Horizontal	173	1.49					
AV	2.4276G	97.14	Inf	-Inf	32.28	3	Horizontal	173	1.49					
PK	2.3896G	58.25	74.00	-15.75	32.18	3	Horizontal	173	1.49					
PK	2.4252G	106.71	Inf	-Inf	32.28	3	Horizontal	173	1.49					

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

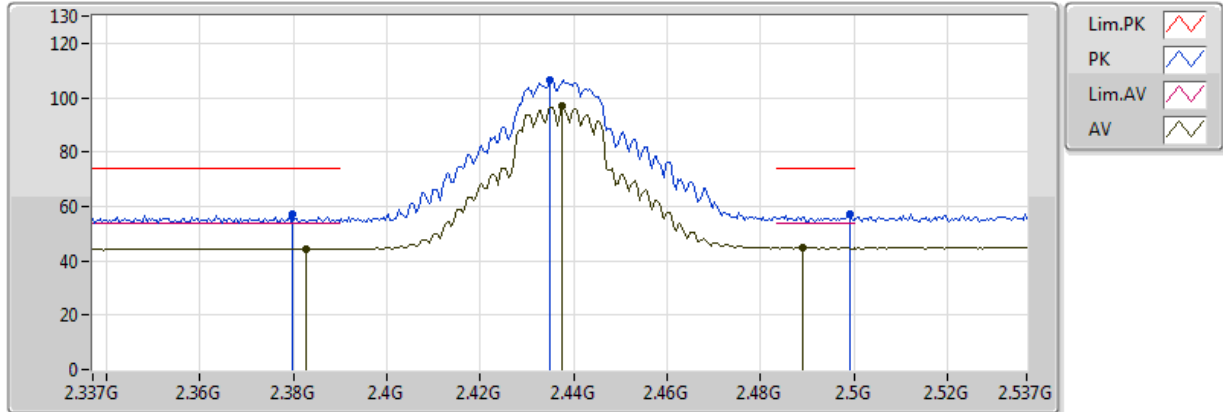


20171204
EUT Y 2TX
Setting : 25
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3882G	47.10	54.00	-6.90	29.93	3	Vertical	315	1.61					
AV	2.4386G	108.10	Inf	-Inf	30.20	3	Vertical	315	1.61					
AV	2.4838G	49.98	54.00	-4.02	30.51	3	Vertical	315	1.61					
PK	2.3882G	59.26	74.00	-14.74	29.93	3	Vertical	315	1.61					
PK	2.4362G	117.99	Inf	-Inf	30.19	3	Vertical	315	1.61					
PK	2.4838G	65.87	74.00	-8.13	30.51	3	Vertical	315	1.61					

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

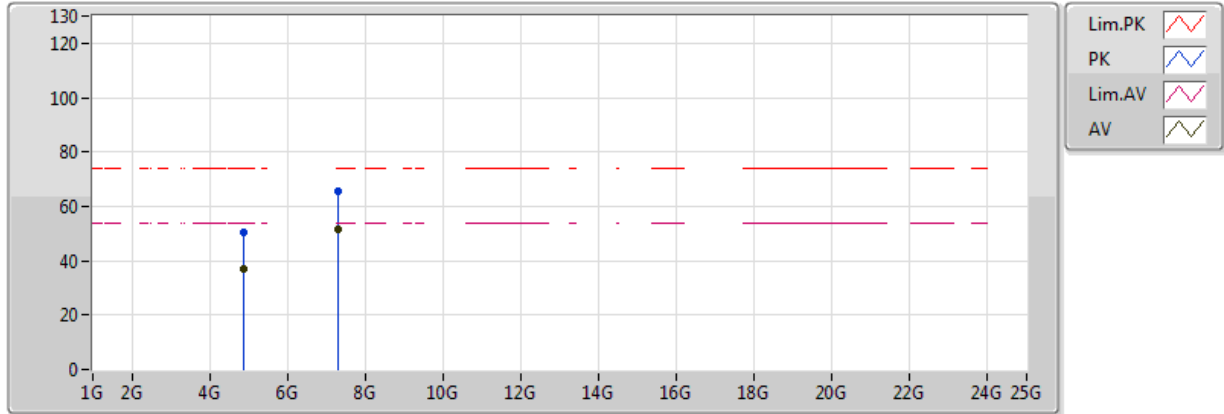


20171213
EUT Y_2TX
Setting 25
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3826G	44.40	54.00	-9.60	32.16	3	Horizontal	152	1.50					
AV	2.4374G	96.73	Inf	-Inf	32.31	3	Horizontal	152	1.50					
AV	2.489G	44.99	54.00	-9.01	32.43	3	Horizontal	152	1.50					
PK	2.3798G	56.98	74.00	-17.02	32.15	3	Horizontal	152	1.50					
PK	2.435G	106.62	Inf	-Inf	32.30	3	Horizontal	152	1.50					
PK	2.499G	57.10	74.00	-16.90	32.46	3	Horizontal	152	1.50					

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

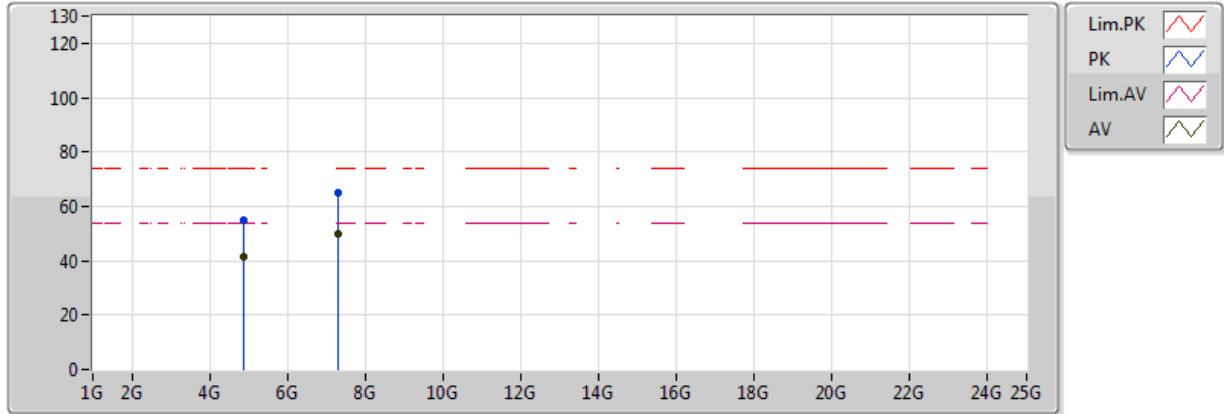


20171204
EUT Y 2TX
Setting : 25
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.87202G	37.05	54.00	-16.95	4.24	3	Vertical	240	1.01					
AV	7.30698G	51.52	54.00	-2.48	10.14	3	Vertical	356	2.06					
PK	4.87454G	50.24	74.00	-23.76	4.25	3	Vertical	240	1.01					
PK	7.3071G	65.34	74.00	-8.66	10.14	3	Vertical	356	2.06					

802.11n HT20_Nss1,(MCS0)_2TX

2437MHz_TX

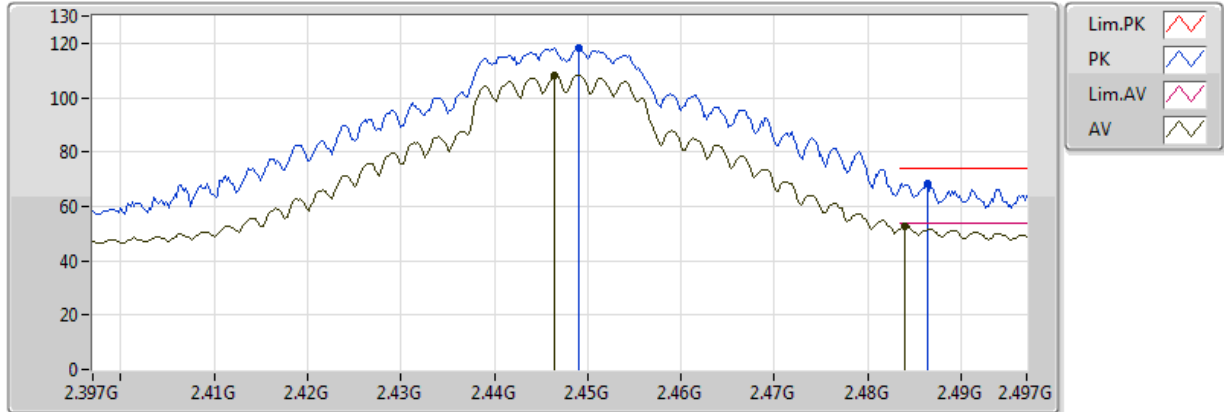


20171204
EUT Y 2TX
Setting : 25
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8722G	41.25	54.00	-12.75	4.24	3	Horizontal	294	1.03					
AV	7.31238G	49.92	54.00	-4.08	10.15	3	Horizontal	358	2.10					
PK	4.87448G	55.14	74.00	-18.86	4.25	3	Horizontal	294	1.03					
PK	7.30722G	64.82	74.00	-9.18	10.14	3	Horizontal	358	2.10					

802.11n HT20_Nss1,(MCS0)_2TX

2447MHz_TX

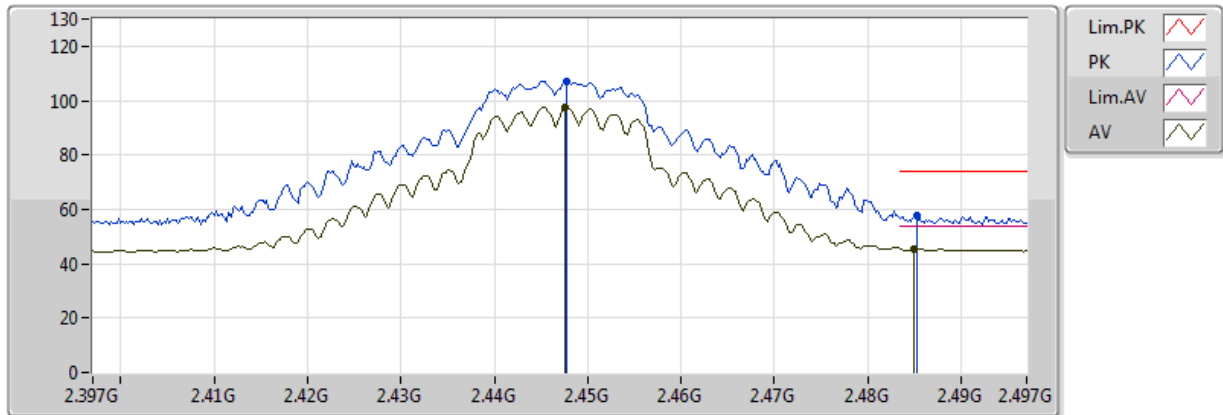


20171204
EUT Y 2TX
Setting : 25
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4464G	108.40	Inf	-Inf	30.26	3	Vertical	181	1.50					
AV	2.484G	52.92	54.00	-1.08	30.51	3	Vertical	181	1.50					
PK	2.449G	118.50	Inf	-Inf	30.27	3	Vertical	181	1.50					
PK	2.4864G	68.30	74.00	-5.70	30.53	3	Vertical	181	1.50					

802.11n HT20_Nss1,(MCS0)_2TX

2447MHz_TX

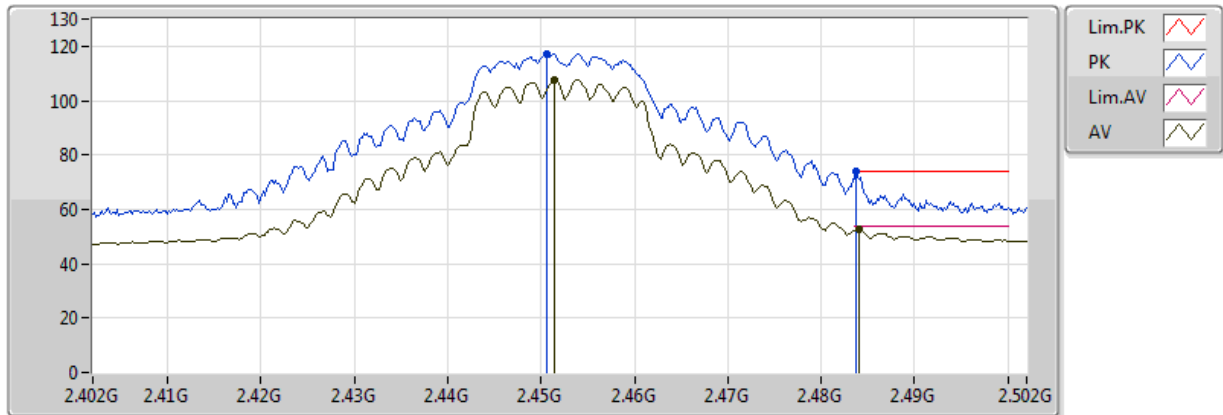


20171213
EUT Y_2TX
Setting 25
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4476G	97.59	Inf	-Inf	32.33	3	Horizontal	175	1.24					
AV	2.485G	45.44	54.00	-8.56	32.42	3	Horizontal	175	1.24					
PK	2.4478G	107.27	Inf	-Inf	32.33	3	Horizontal	175	1.24					
PK	2.4852G	57.69	74.00	-16.31	32.42	3	Horizontal	175	1.24					

802.11n HT20_Nss1,(MCS0)_2TX

2452MHz_TX

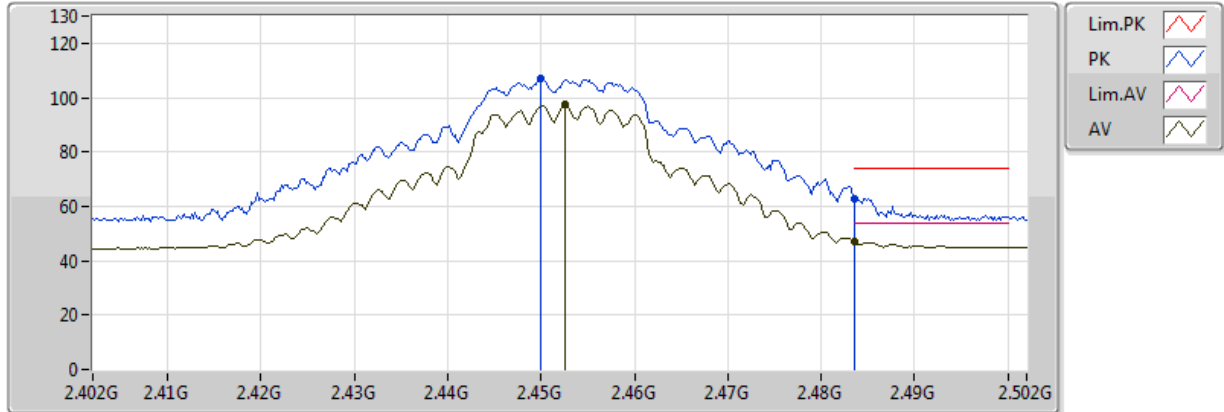


20171204
EUT Y 2TX
Setting : 1E
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4514G	107.54	Inf	-Inf	30.29	3	Vertical	183	1.51					
AV	2.484G	52.47	54.00	-1.53	30.51	3	Vertical	183	1.51					
PK	2.4506G	117.38	Inf	-Inf	30.28	3	Vertical	183	1.51					
PK	2.4838G	73.89	74.00	-0.11	30.51	3	Vertical	183	1.51					

802.11n HT20_Nss1,(MCS0)_2TX

2452MHz_TX

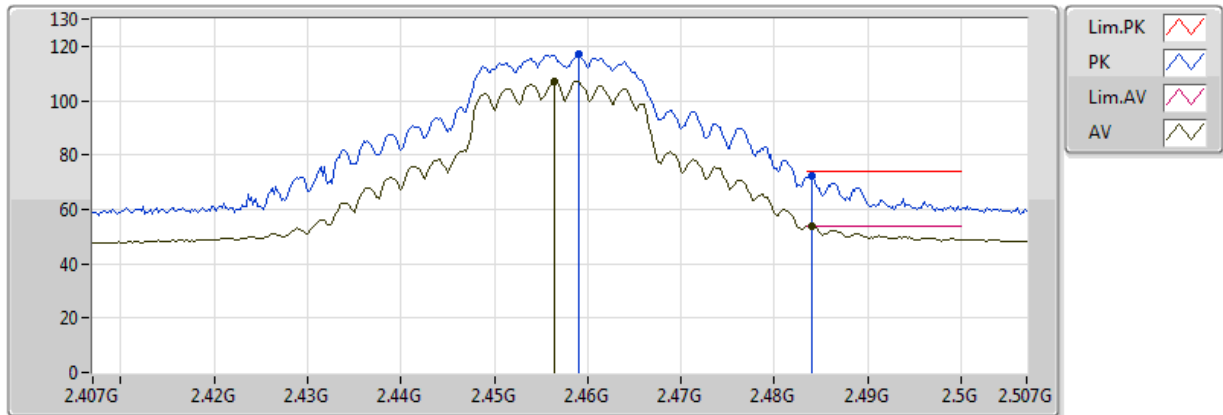


20171213
EUT Y_2TX
Setting 1E
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4526G	97.50	Inf	-Inf	32.34	3	Horizontal	173	1.77					
AV	2.483502G	47.18	54.00	-6.82	32.42	3	Horizontal	173	1.77					
PK	2.45G	107.00	Inf	-Inf	32.34	3	Horizontal	173	1.77					
PK	2.483502G	63.00	74.00	-11.00	32.42	3	Horizontal	173	1.77					

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

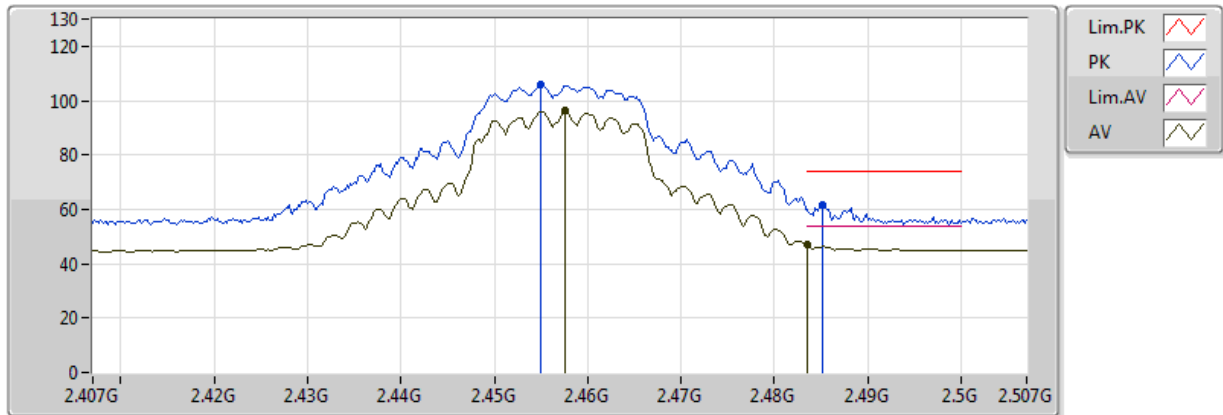


20171204
EUT Y 2TX
Setting : 1C
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4564G	106.91	Inf	-Inf	30.32	3	Vertical	184	1.46					
AV	2.484G	53.91	54.00	-0.09	30.51	3	Vertical	184	1.46					
PK	2.459G	117.00	Inf	-Inf	30.34	3	Vertical	184	1.46					
PK	2.484G	72.26	74.00	-1.74	30.51	3	Vertical	184	1.46					

802.11n HT20_Nss1,(MCS0)_2TX

2457MHz_TX

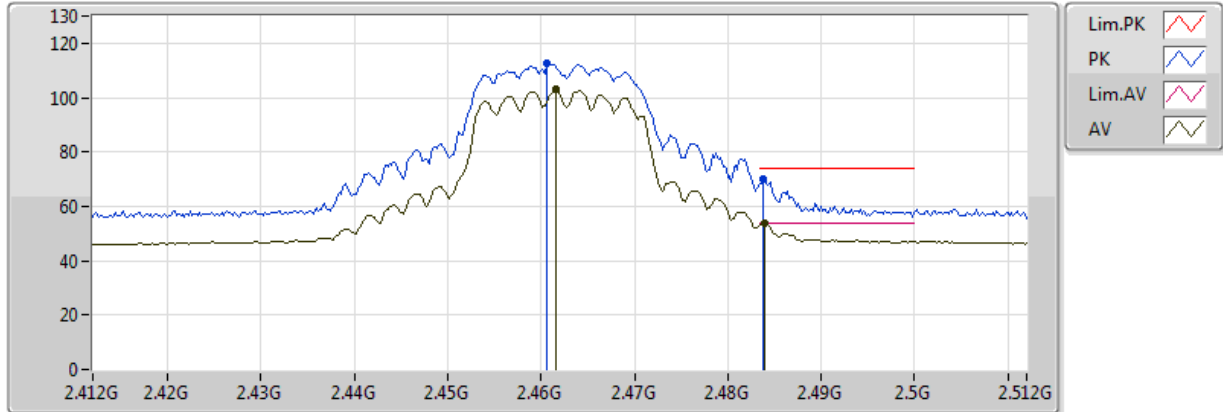


20171213
EUT Y_2TX
Setting 1C
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.4576G	96.13	Inf	-Inf	32.35	3	Horizontal	173	1.75					
AV	2.483502G	46.88	54.00	-7.12	32.42	3	Horizontal	173	1.75					
PK	2.455G	105.72	Inf	-Inf	32.35	3	Horizontal	173	1.75					
PK	2.4852G	61.65	74.00	-12.35	32.42	3	Horizontal	173	1.75					

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

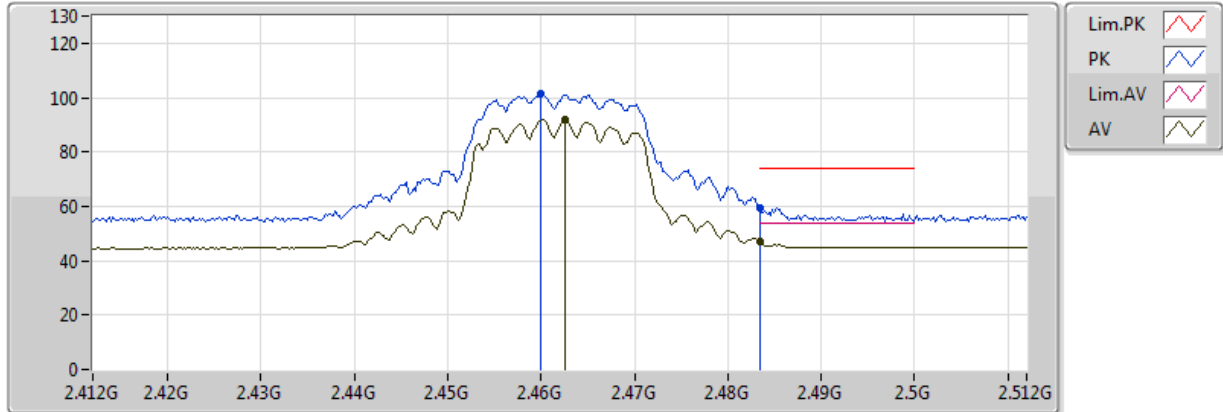


20171204
EUT Y 2TX
Setting : 14
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4616G	103.05	Inf	-Inf	30.36	3	Vertical	189	1.50					
AV	2.484G	53.66	54.00	-0.34	30.51	3	Vertical	189	1.50					
PK	2.4606G	112.35	Inf	-Inf	30.35	3	Vertical	189	1.50					
PK	2.4838G	70.23	74.00	-3.77	30.51	3	Vertical	189	1.50					

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

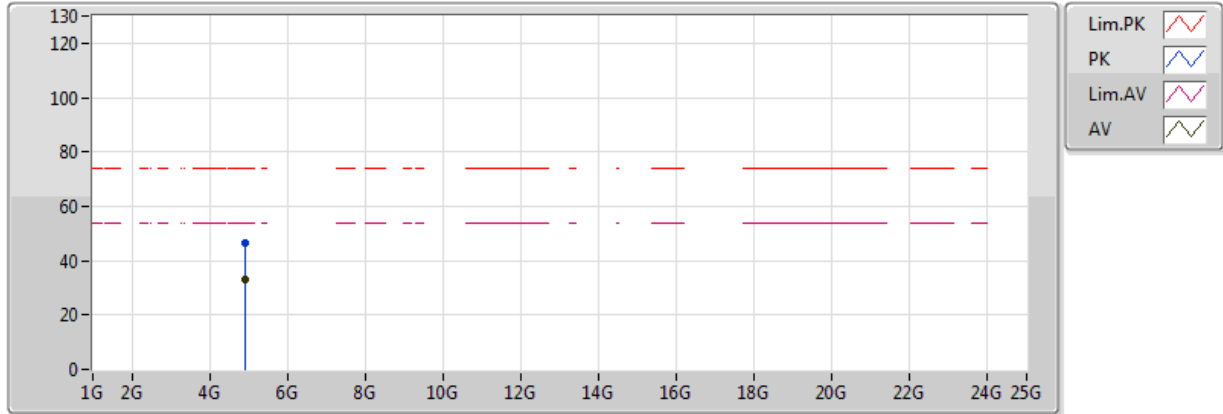


20171213
EUT Y_2TX
Setting 14
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.4626G	91.97	Inf	-Inf	32.37	3	Horizontal	172	1.49					
AV	2.483502G	47.18	54.00	-6.82	32.42	3	Horizontal	172	1.49					
PK	2.46G	101.45	Inf	-Inf	32.36	3	Horizontal	172	1.49					
PK	2.483502G	59.51	74.00	-14.49	32.42	3	Horizontal	172	1.49					

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

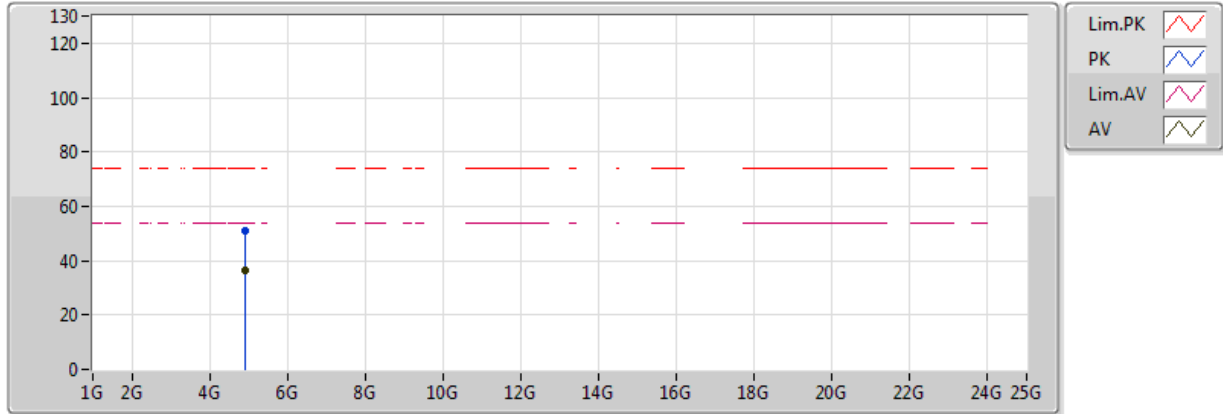


20171204
EUT Y 2TX
Setting : 14
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.92214G	33.06	54.00	-20.94	4.43	3	Vertical	246	1.00					
PK	4.9189G	46.75	74.00	-27.25	4.42	3	Vertical	246	1.00					

802.11n HT20_Nss1,(MCS0)_2TX

2462MHz_TX

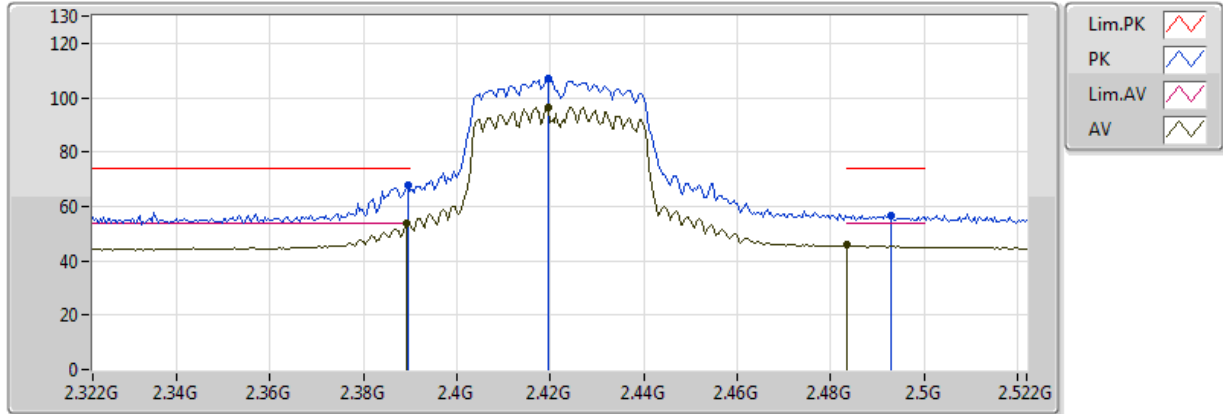


20171204
EUT Y 2TX
Setting : 14
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.9246G	36.34	54.00	-17.66	4.44	3	Horizontal	288	1.00					
PK	4.92454G	51.13	74.00	-22.87	4.44	3	Horizontal	288	1.00					

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

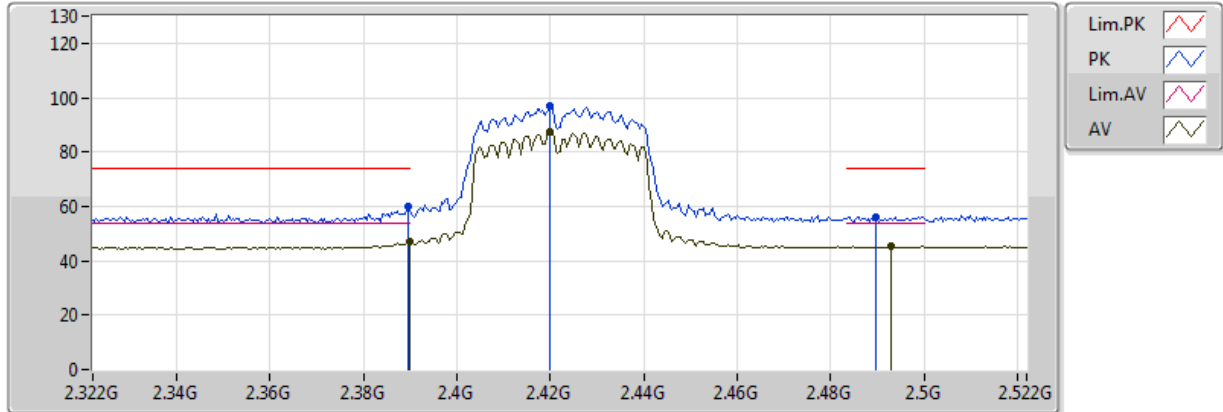


20171204
EUT Y 2TX
Setting: 0E
05-E-3
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3892G	53.73	54.00	-0.27	29.93	3	Vertical	339	1.37					
AV	2.4196G	96.45	Inf	-Inf	30.07	3	Vertical	339	1.37					
AV	2.4836G	45.68	54.00	-8.32	30.51	3	Vertical	339	1.37					
PK	2.3896G	67.89	74.00	-6.11	29.93	3	Vertical	339	1.37					
PK	2.4196G	107.05	Inf	-Inf	30.07	3	Vertical	339	1.37					
PK	2.4928G	56.76	74.00	-17.24	30.57	3	Vertical	339	1.37					

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

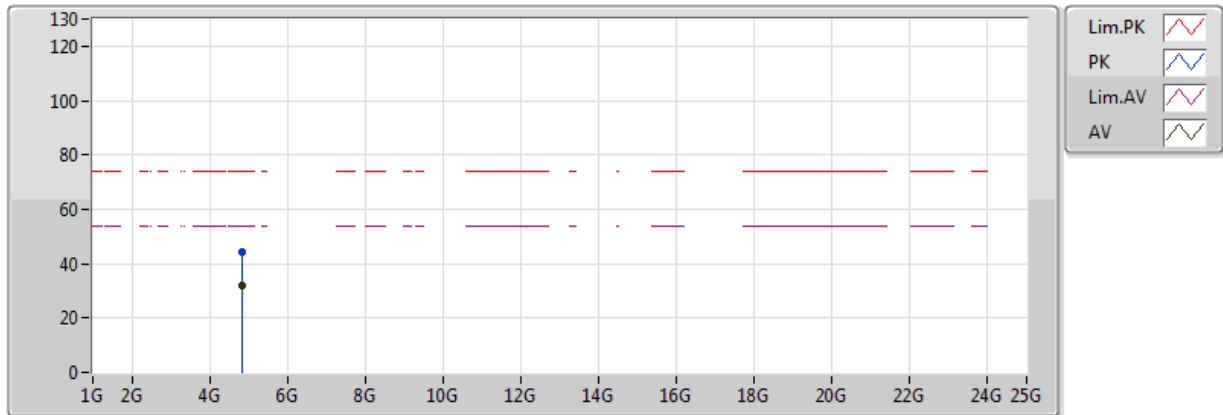


20171213
EUT Y_2TX
Setting 0E
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	47.16	54.00	-6.84	32.18	3	Horizontal	174	1.90					
AV	2.42G	87.18	Inf	-Inf	32.26	3	Horizontal	174	1.90					
AV	2.4928G	45.20	54.00	-8.80	32.44	3	Horizontal	174	1.90					
PK	2.3896G	59.73	74.00	-14.27	32.18	3	Horizontal	174	1.90					
PK	2.42G	96.82	Inf	-Inf	32.26	3	Horizontal	174	1.90					
PK	2.4896G	56.29	74.00	-17.71	32.43	3	Horizontal	174	1.90					

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

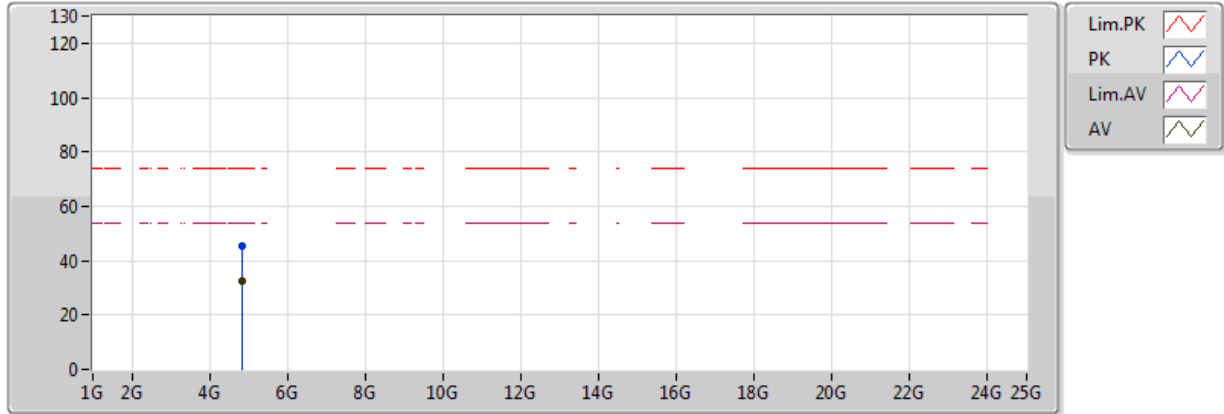


20171204
EUT Y 2TX
Setting : 0E
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.83332G	32.11	54.00	-21.89	4.10	3	Vertical	357	1.03					
PK	4.83674G	44.38	74.00	-29.62	4.11	3	Vertical	357	1.03					

802.11n HT40_Nss1,(MCS0)_2TX

2422MHz_TX

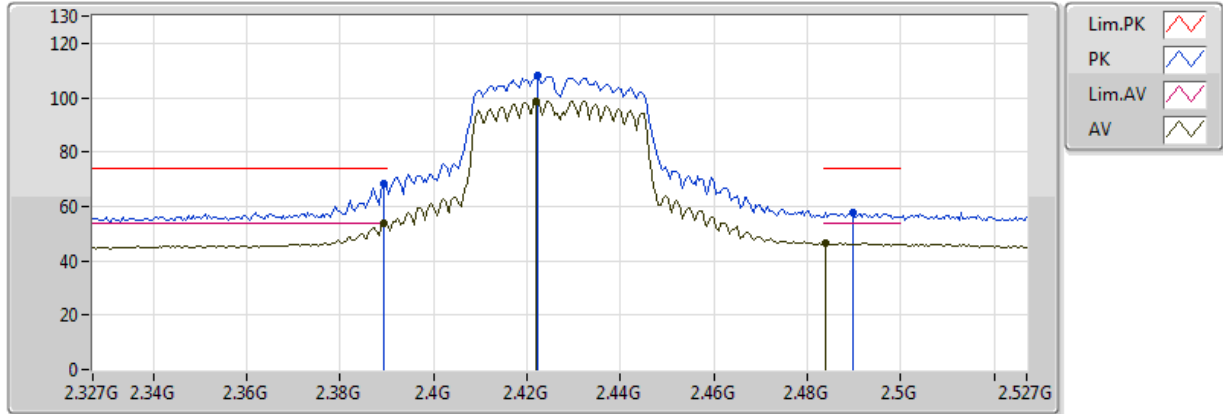


20171204
EUT Y 2TX
Setting : 0E
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.84448G	32.45	54.00	-21.55	4.14	3	Horizontal	284	1.02					
PK	4.8449G	45.42	74.00	-28.58	4.14	3	Horizontal	284	1.02					

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

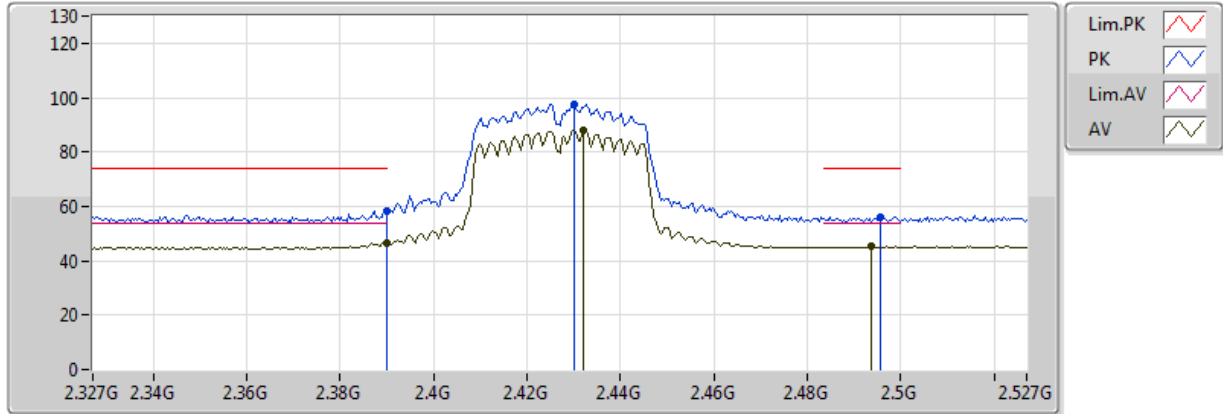


20171204
EUT Y 2TX
Setting : 10
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3894G	53.81	54.00	-0.19	29.93	3	Vertical	333	1.36					
AV	2.4218G	98.83	Inf	-Inf	30.09	3	Vertical	333	1.36					
AV	2.4838G	46.69	54.00	-7.31	30.51	3	Vertical	333	1.36					
PK	2.3894G	68.15	74.00	-5.85	29.93	3	Vertical	333	1.36					
PK	2.4222G	108.21	Inf	-Inf	30.09	3	Vertical	333	1.36					
PK	2.4898G	57.93	74.00	-16.07	30.55	3	Vertical	333	1.36					

802.11n HT40_Nss1,(MCS0)_2TX

2427MHz_TX

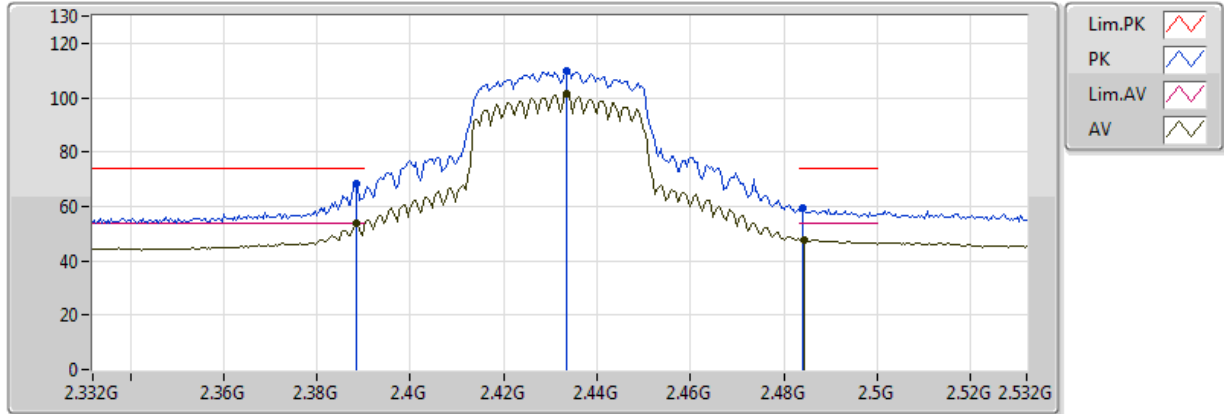


20171213
EUT Y_2TX
Setting 10
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	46.75	54.00	-7.25	32.18	3	Horizontal	174	1.94					
AV	2.4322G	88.11	Inf	-Inf	32.29	3	Horizontal	174	1.94					
AV	2.4938G	45.14	54.00	-8.86	32.44	3	Horizontal	174	1.94					
PK	2.389998G	58.40	74.00	-15.60	32.18	3	Horizontal	174	1.94					
PK	2.4302G	97.77	Inf	-Inf	32.29	3	Horizontal	174	1.94					
PK	2.4958G	56.28	74.00	-17.72	32.45	3	Horizontal	174	1.94					

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

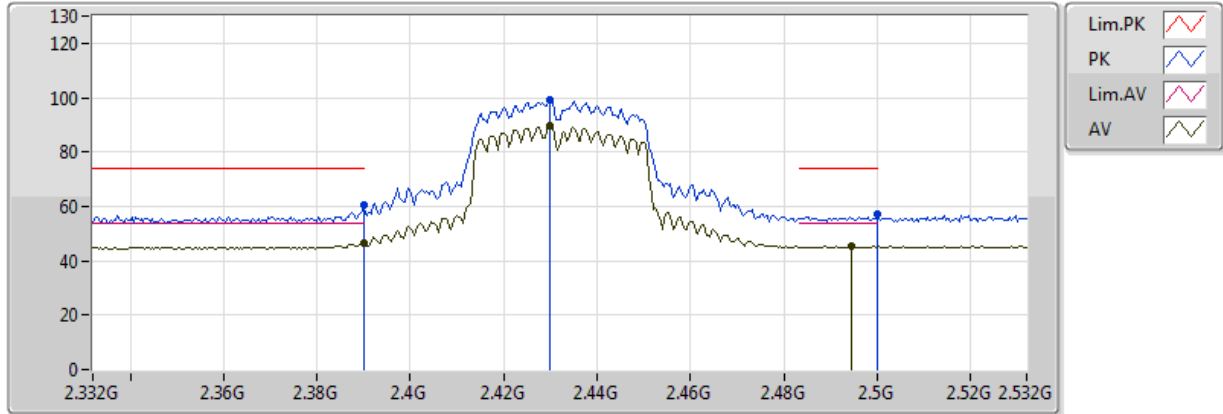


20171204
EUT Y 2TX
Setting : 14
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3884G	53.88	54.00	-0.12	29.93	3	Vertical	303	1.62					
AV	2.4336G	101.21	Inf	-Inf	30.17	3	Vertical	303	1.62					
AV	2.4844G	47.85	54.00	-6.15	30.51	3	Vertical	303	1.62					
PK	2.3884G	68.30	74.00	-5.70	29.93	3	Vertical	303	1.62					
PK	2.4336G	109.82	Inf	-Inf	30.17	3	Vertical	303	1.62					
PK	2.484G	59.12	74.00	-14.88	30.51	3	Vertical	303	1.62					

802.11n HT40_Nss1,(MCS0)_2TX

2432MHz_TX

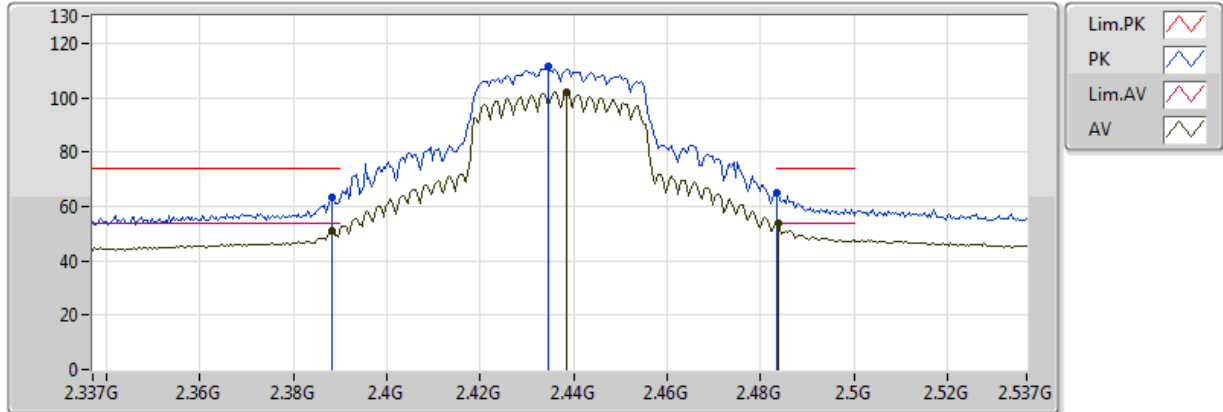


20171213
EUT Y_2TX
Setting 14
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.39G	46.77	54.00	-7.23	32.18	3	Horizontal	172	1.50					
AV	2.43G	89.66	Inf	-Inf	32.29	3	Horizontal	172	1.50					
AV	2.4944G	45.39	54.00	-8.61	32.44	3	Horizontal	172	1.50					
PK	2.39G	60.78	74.00	-13.22	32.18	3	Horizontal	172	1.50					
PK	2.43G	99.33	Inf	-Inf	32.29	3	Horizontal	172	1.50					
PK	2.5G	57.24	74.00	-16.76	32.46	3	Horizontal	172	1.50					

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

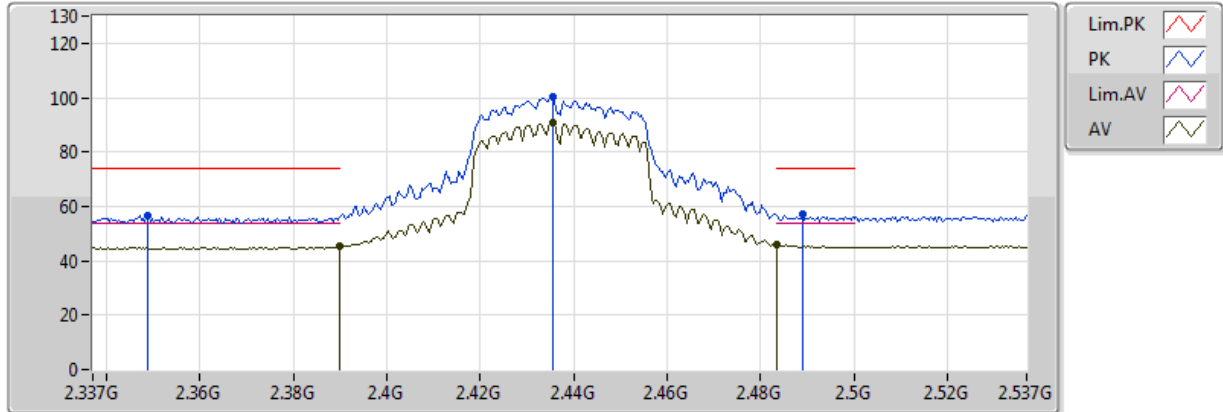


20171204
EUT Y 2TX
Setting : 17
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3882G	51.20	54.00	-2.80	29.93	3	Vertical	307	1.71					
AV	2.4386G	102.15	Inf	-Inf	30.20	3	Vertical	307	1.71					
AV	2.4838G	53.53	54.00	-0.47	30.51	3	Vertical	307	1.71					
PK	2.3882G	63.57	74.00	-10.43	29.93	3	Vertical	307	1.71					
PK	2.4346G	111.25	Inf	-Inf	30.18	3	Vertical	307	1.71					
PK	2.483502G	65.25	74.00	-8.75	30.51	3	Vertical	307	1.71					

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

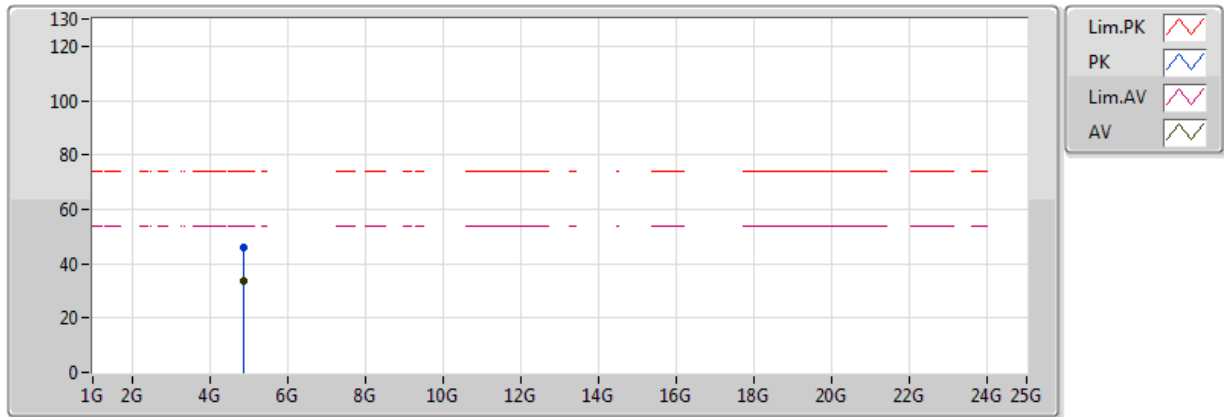


20171213
EUT Y_2TX
Setting 17
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.389998G	45.31	54.00	-8.69	32.18	3	Horizontal	153	1.47					
AV	2.4354G	90.96	Inf	-Inf	32.30	3	Horizontal	153	1.47					
AV	2.483502G	46.09	54.00	-7.91	32.42	3	Horizontal	153	1.47					
PK	2.3486G	56.42	74.00	-17.58	32.06	3	Horizontal	153	1.47					
PK	2.4354G	100.15	Inf	-Inf	32.30	3	Horizontal	153	1.47					
PK	2.489G	57.05	74.00	-16.95	32.43	3	Horizontal	153	1.47					

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

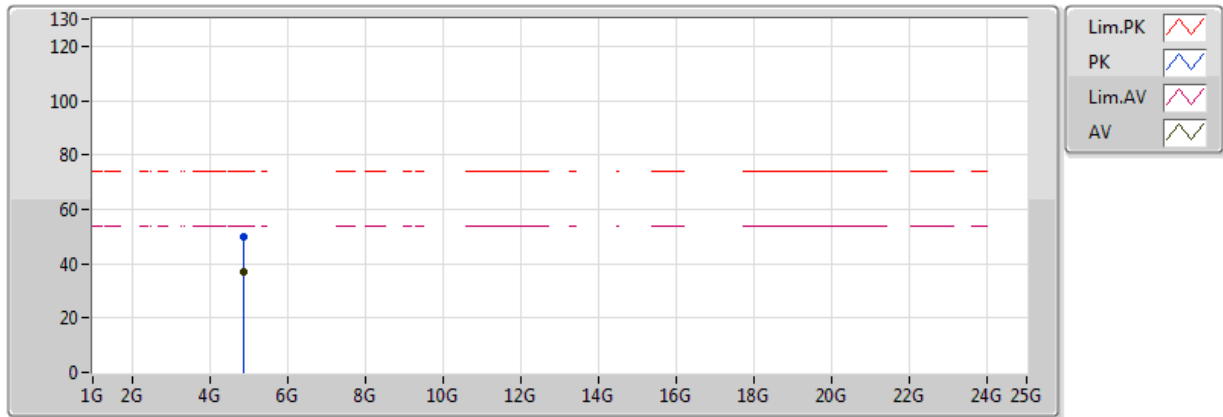


20171204
EUT Y 2TX
Setting : 17
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.8694G	33.65	54.00	-20.35	4.23	3	Vertical	75	1.05					
PK	4.8674G	45.80	74.00	-28.20	4.23	3	Vertical	75	1.05					

802.11n HT40_Nss1,(MCS0)_2TX

2437MHz_TX

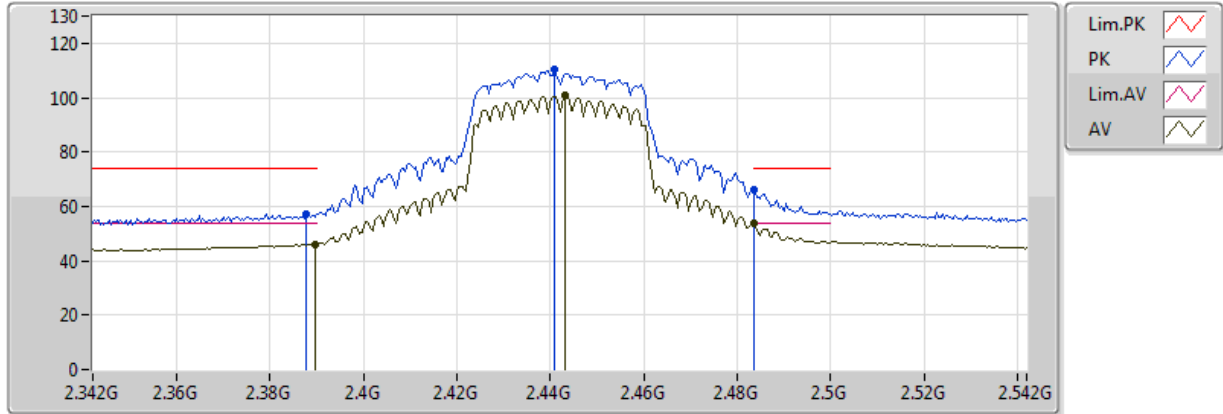


20171204
EUT Y 2TX
Setting : 17
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.8746G	36.84	54.00	-17.16	4.25	3	Horizontal	281	1.03					
PK	4.87472G	49.87	74.00	-24.13	4.25	3	Horizontal	281	1.03					

802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

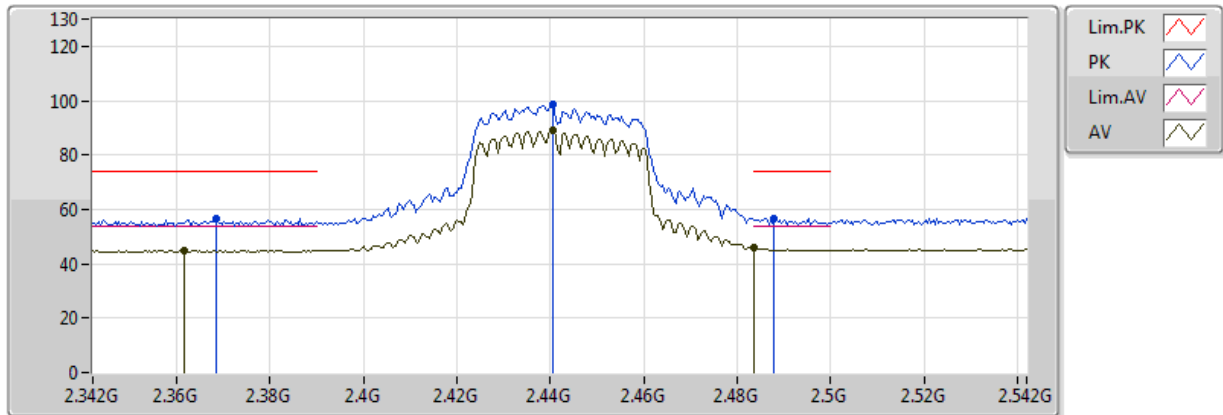


20171204
EUT Y 2TX
Setting : 14
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3896G	46.05	54.00	-7.95	29.93	3	Vertical	296	2.01					
AV	2.4432G	100.97	Inf	-Inf	30.23	3	Vertical	296	2.01					
AV	2.4836G	53.92	54.00	-0.08	30.51	3	Vertical	296	2.01					
PK	2.3876G	57.02	74.00	-16.98	29.93	3	Vertical	296	2.01					
PK	2.4408G	110.30	Inf	-Inf	30.22	3	Vertical	296	2.01					
PK	2.4836G	66.29	74.00	-7.71	30.51	3	Vertical	296	2.01					

802.11n HT40_Nss1,(MCS0)_2TX

2442MHz_TX

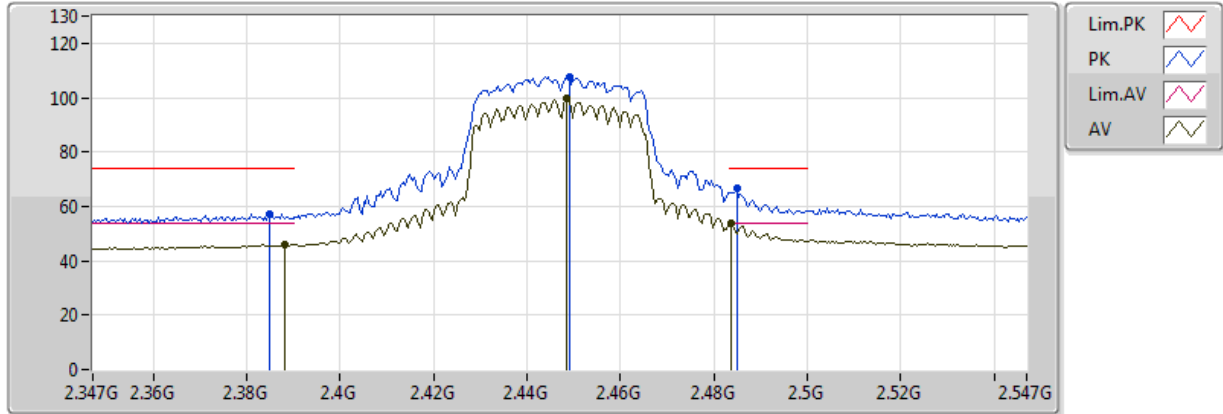


20171213
EUT Y_2TX
Setting 14
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3616G	44.95	54.00	-9.05	32.10	3	Horizontal	152	1.49					
AV	2.4404G	89.30	Inf	-Inf	32.31	3	Horizontal	152	1.49					
AV	2.4836G	45.69	54.00	-8.31	32.42	3	Horizontal	152	1.49					
PK	2.3684G	56.57	74.00	-17.43	32.12	3	Horizontal	152	1.49					
PK	2.4404G	98.68	Inf	-Inf	32.31	3	Horizontal	152	1.49					
PK	2.488G	56.68	74.00	-17.32	32.43	3	Horizontal	152	1.49					

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

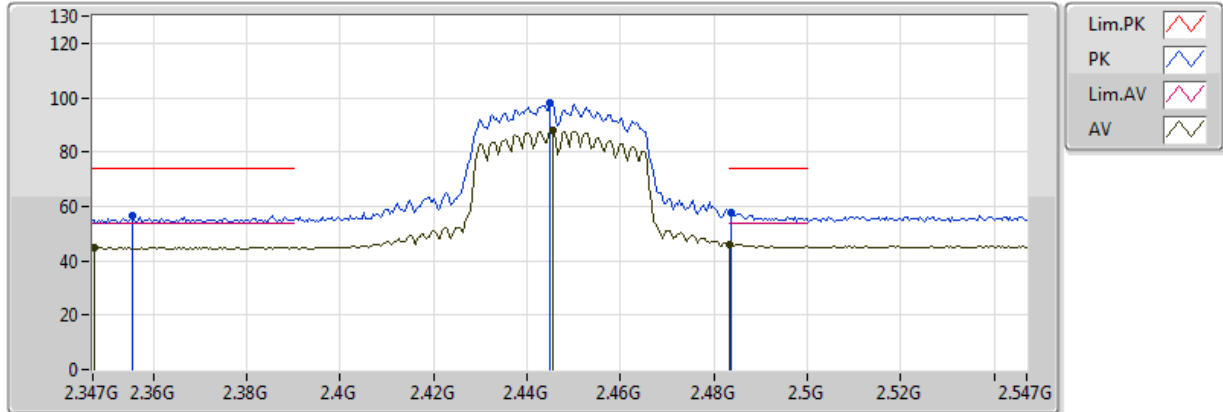


20171204
EUT Y 2TX
Setting : 10
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3882G	45.98	54.00	-8.02	29.93	3	Vertical	301	1.87					
AV	2.4486G	99.49	Inf	-Inf	30.27	3	Vertical	301	1.87					
AV	2.4838G	53.80	54.00	-0.20	30.51	3	Vertical	301	1.87					
PK	2.385G	57.21	74.00	-16.79	29.93	3	Vertical	301	1.87					
PK	2.449G	107.83	Inf	-Inf	30.27	3	Vertical	301	1.87					
PK	2.485G	66.81	74.00	-7.19	30.52	3	Vertical	301	1.87					

802.11n HT40_Nss1,(MCS0)_2TX

2447MHz_TX

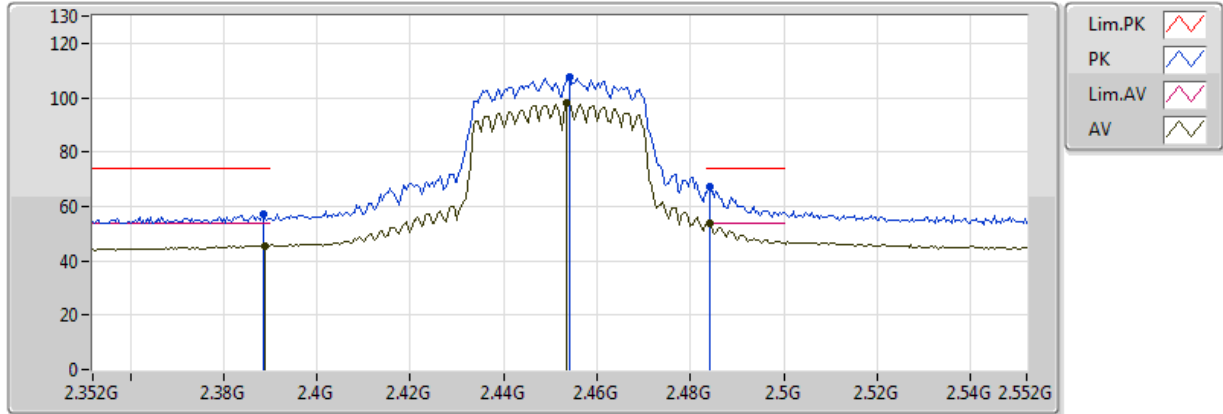


20171213
EUT Y_2TX
Setting 10
03-Z-1
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	2.3474G	44.92	54.00	-9.08	32.06	3	Horizontal	174	1.29					
AV	2.4454G	88.11	Inf	-Inf	32.32	3	Horizontal	174	1.29					
AV	2.483502G	46.22	54.00	-7.78	32.42	3	Horizontal	174	1.29					
PK	2.3554G	56.54	74.00	-17.46	32.08	3	Horizontal	174	1.29					
PK	2.445G	97.84	Inf	-Inf	32.32	3	Horizontal	174	1.29					
PK	2.4838G	57.64	74.00	-16.36	32.42	3	Horizontal	174	1.29					

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

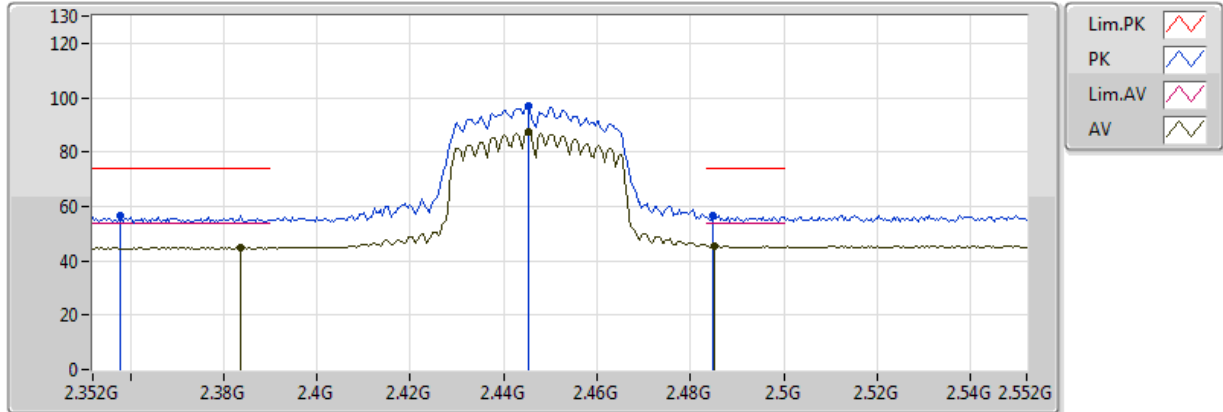


20171204
EUT Y 2TX
Setting: 0E
05-E-3
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3888G	45.61	54.00	-8.39	29.93	3	Vertical	193	1.50					
AV	2.4536G	97.93	Inf	-Inf	30.30	3	Vertical	193	1.50					
AV	2.484G	53.93	54.00	-0.07	30.51	3	Vertical	193	1.50					
PK	2.3884G	57.19	74.00	-16.81	29.93	3	Vertical	193	1.50					
PK	2.454G	107.59	Inf	-Inf	30.31	3	Vertical	193	1.50					
PK	2.484G	67.28	74.00	-6.72	30.51	3	Vertical	193	1.50					

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

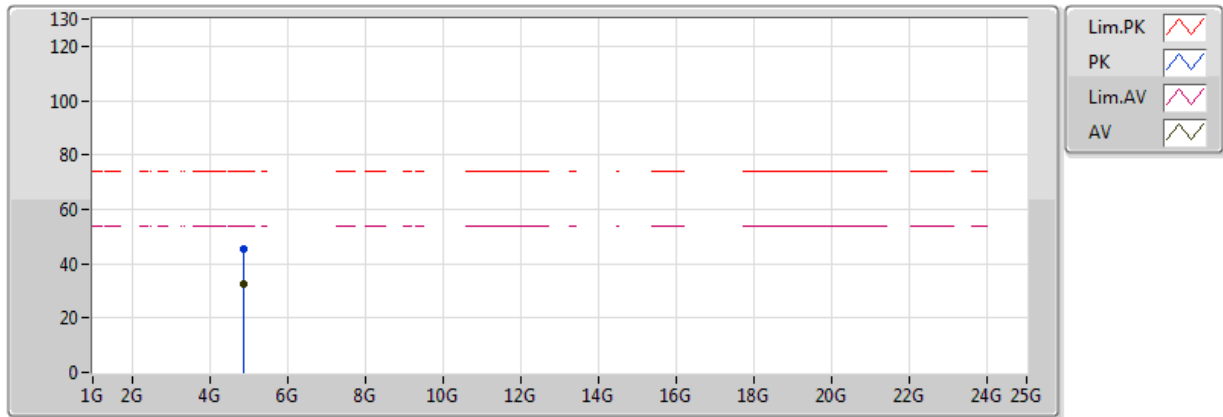


20171213
EUT Y_2TX
Setting 0E
03-Z-1
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	2.3836G	44.95	54.00	-9.05	32.17	3	Horizontal	176	1.28					
AV	2.4452G	87.35	Inf	-Inf	32.32	3	Horizontal	176	1.28					
AV	2.4852G	45.61	54.00	-8.39	32.42	3	Horizontal	176	1.28					
PK	2.358G	56.45	74.00	-17.55	32.09	3	Horizontal	176	1.28					
PK	2.4452G	97.20	Inf	-Inf	32.32	3	Horizontal	176	1.28					
PK	2.4848G	56.80	74.00	-17.20	32.42	3	Horizontal	176	1.28					

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX

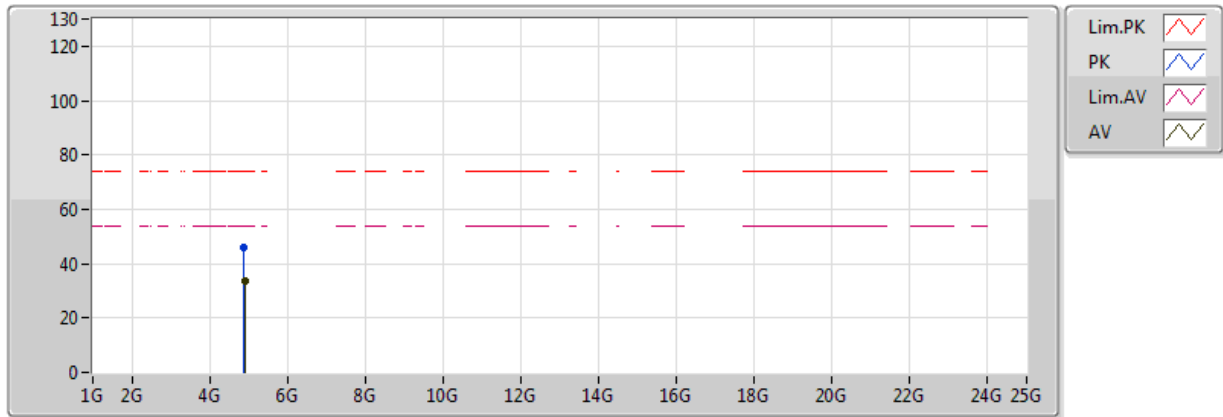


20171204
EUT Y 2TX
Setting : 0E
05-N-2
FSP

Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height					
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB)	(m)		(°)	(m)					
AV	4.89506G	32.78	54.00	-21.22	4.33	3	Vertical	200	2.57					
PK	4.89422G	45.16	74.00	-28.84	4.33	3	Vertical	200	2.57					

802.11n HT40_Nss1,(MCS0)_2TX

2452MHz_TX



20171204
EUT Y 2TX
Setting : 0E
05-N-2
FSP

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)					
AV	4.9043G	33.65	54.00	-20.35	4.37	3	Horizontal	274	1.07					
PK	4.8926G	46.01	74.00	-27.99	4.32	3	Horizontal	274	1.07					