



FCC Test Report

Equipment : TELUS TVX
Brand Name : arcadyan
Model No. : HMB2213PW22TS
FCC ID : RAXHMB2213PW
Standard : 47 CFR FCC Part 15.247
Operating Band : 2400 MHz – 2483.5 MHz
Function : Point-to-multipoint; Point-to-point
Applicant : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan
Manufacturer : Arcadyan Technology Corporation
No.8, Sec.2, Guangfu Rd.,Hsinchu, 30071 Taiwan

The product sample received on Sep. 07, 2016 and completely tested on Sep. 30, 2016. 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.


Sam Chen
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)	Fundamental Emission 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



Revision History

Report No.	Version	Description	Issued Date
FR672701AA	Rev. 01	Initial issue of report	Oct. 07, 2016



1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), ac (VHT20)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), ac (VHT40)	2422-2452	3-9 [7]

Band	Mode	BWch (MHz)	Nant
2.4G	11b	20	2
2.4G	11g	20	2
2.4G	HT20	20	2
2.4G	VHT20	20	2
2.4G	HT40	40	2
2.4G	VHT40	40	2

Note:

- ♦ 2.4G is the 2.4GHz Band (2.4-2.4835GHz).
- ♦ 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- ♦ 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- ♦ VHT20, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- ♦ BWch is the nominal channel bandwidth.
- ♦ 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.	Brand	Part No.	Type	Connector	Gain (dBi)	
					2.4GHz WLAN	5GHz WLAN
1	arcadyan	120800031900J	PCB	N/A	4.14	4.18
2	arcadyan	120800031900J	PCB	N/A	4.91	4.73
Ant.	Brand	Part No.	Type	Connector	Gain (dBi)	
					Bluetooth	
3	arcadyan	120700035500J	Print PCB	N/A	3.93	

Note: The EUT has three antennas.

For WLAN function:

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

Ant. 1 and Ant. 2 could transmit/receive simultaneously.

For Bluetooth function:

Only Ant. 3 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	T(s)	VBW(Hz) ≥ 1/T
11b	1	n/a (DC>=0.98)	n/a (DC>=0.98)
11g	0.977	0.00203	500
VHT20	0.979	0.00191	1k
VHT40	0.909	0.00088	3k

1.1.4 EUT Operational Condition

EUT Power Type	From power adapter		
Beamforming Function	<input type="checkbox"/> With beamforming	<input checked="" type="checkbox"/> Without beamforming	



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 v03r05
- ◆ FCC KDB 662911 D01 v02r01
- ◆ FCC KDB 644545 D01 v01r02

1.3 Testing Location Information

Testing Location		
<input type="checkbox"/>	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
<input checked="" type="checkbox"/>	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	Eddie Weng	20°C / 50%	Sep. 19, 2016~Sep. 23, 2016
Radiated	03CH01-CB	Nyle Chang, Zero Chen, Jay Luo	22°C / 54%	Sep. 07, 2016~Sep. 21, 2016
AC Conduction	CO01-CB	Hank Yang	25°C / 57%	Sep. 30, 2016

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%



2 Test Configuration of EUT

2.1 Test Channel Mode

Band	Mode	BWch (MHz)	Nss-Min	Nant	Ch. (MHz)	Range	Power Setting
2.4G	11b	20	1	2	2412	L	62
2.4G	11b	20	1	2	2437	M	80
2.4G	11b	20	1	2	2462	H	58
2.4G	11g	20	1	2	2412	L	57
2.4G	11g	20	1	2	2437	M	78
2.4G	11g	20	1	2	2462	H	61
2.4G	VHT20	20	1,(M0)	2	2412	L	48
2.4G	VHT20	20	1,(M0)	2	2437	M	75
2.4G	VHT20	20	1,(M0)	2	2462	H	61
2.4G	VHT40	40	1,(M0)	2	2422	L	35
2.4G	VHT40	40	1,(M0)	2	2437	M	48
2.4G	VHT40	40	1,(M0)	2	2452	H	51

Note:

- ♦ Test range channel consist of L (Low Ch.), M (Middle Ch.), H (High Ch.), S (Single Ch.) and C (Straddle Band Ch.).

Note. VHT20/VHT40 covers HT20/HT40, due to same modulation. The power setting for 802.11n HT20 and HT40 are the same or lower than 802.11ac VHT20 and VHT40.



2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral
Operating Mode	Normal Link
1	2.4GHz WLAN + Bluetooth
2	5GHz WLAN + Bluetooth
For operating mode 2 is the worst case and it was record in this test report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Fundamental Emission Output Power Power Spectral Density
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Non-restricted Frequency Bands 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	2.4GHz WLAN + Bluetooth
2	5GHz WLAN + Bluetooth
For operating mode 1 is the worst case and it was record in this test report.	
Operating Mode > 1GHz	CTX

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	
1	2.4GHz WLAN + Bluetooth
2	5GHz WLAN + Bluetooth
Refer to Sporton Test Report No.: FA672701 for Co-location RF Exposure Evaluation.	

Note: The EUT can only be used at Z axis position.



2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

Accessories			
Power	Brand	Model No.	Rating
Adapter	APD	WB-18D12FU	Input: 100-240Vac, 50-60Hz, 0.5A Max. Output: 12Vdc, 1.5A
Other			
HDMI cable: Shielded, 1.8m			

2.5 Support Equipment

For Test Site No: CO01-CB

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	AP	Planex	GW-AP54SGX	KA220030603014-1
2	NB	DELL	E6430	DoC
3	iPad	Apple	A1430	DoC
4	Converter	UPMOST	DCT3	N/A
5	Earphone	SHYARO CHI	MIC-04	N/A
6	TV	SONY	KLV-32U300A	DoC
7	Flash disk	Transcend	604108 8255	DoC

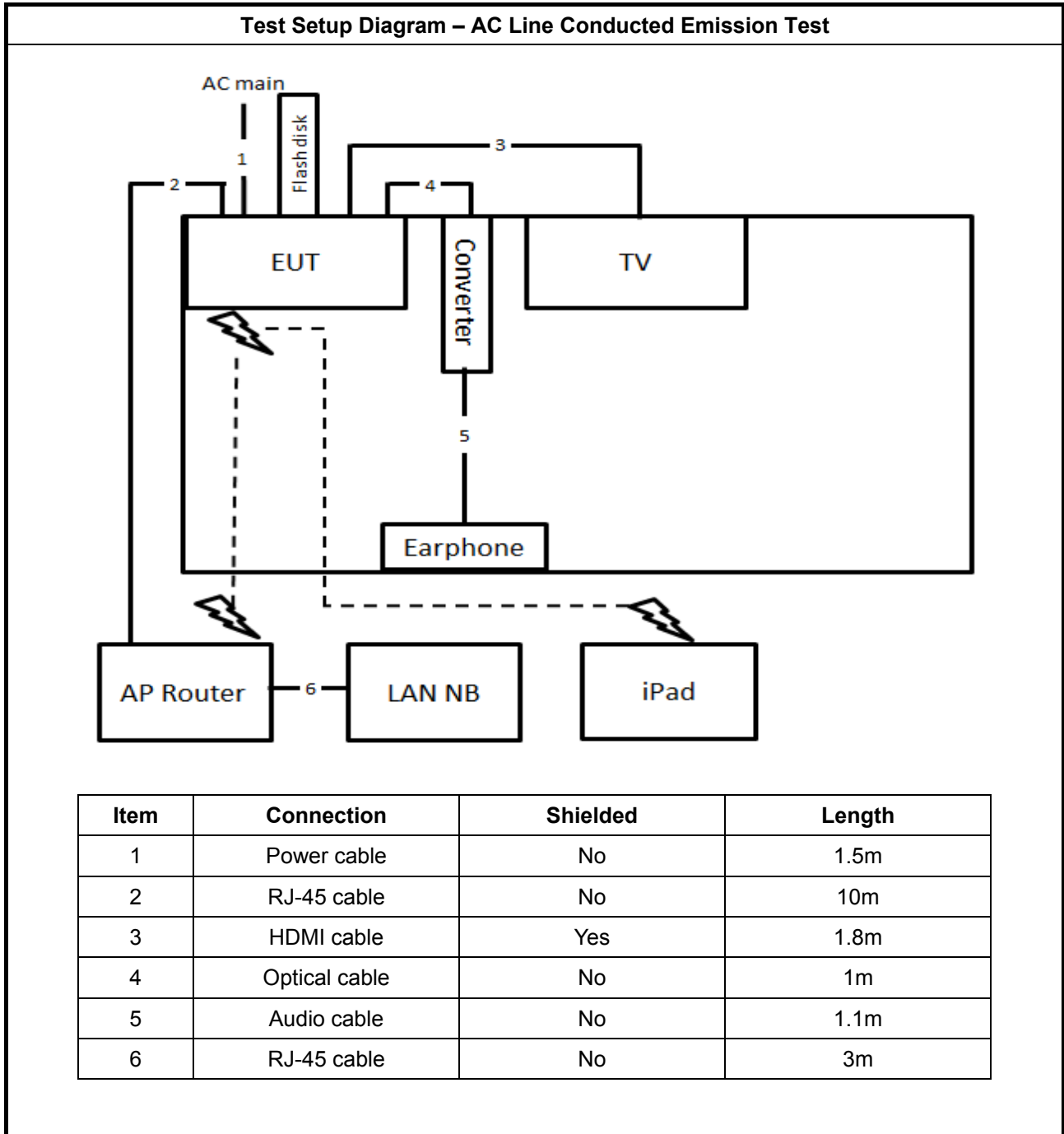
For Test Site No: 03CH01-CB (below 1GHz)

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
1	NB	DELL	E4300	DoC
2	Converter	UPMOST	DCT3	N/A
3	Flash disk	Silicon Power	I-Series	DoC
4	Earphone	SHYARO CHI	MIC-04	N/A
5	TV	SONY	KLV-32U300A	DoC
6	AP	Planex	GW-AP54SGX	KA220030603014-1
7	iPad	Apple	A1430	DoC

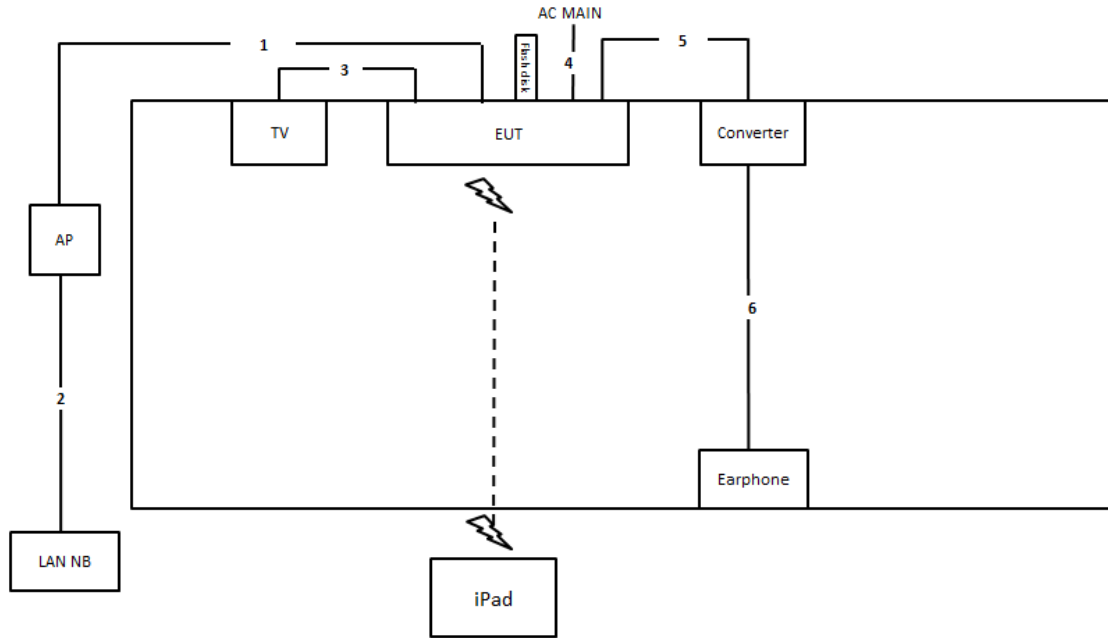
For Test Site No: 03CH01-CB (above 1GHz) and TH01-CB

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

2.6 Test Setup Diagram

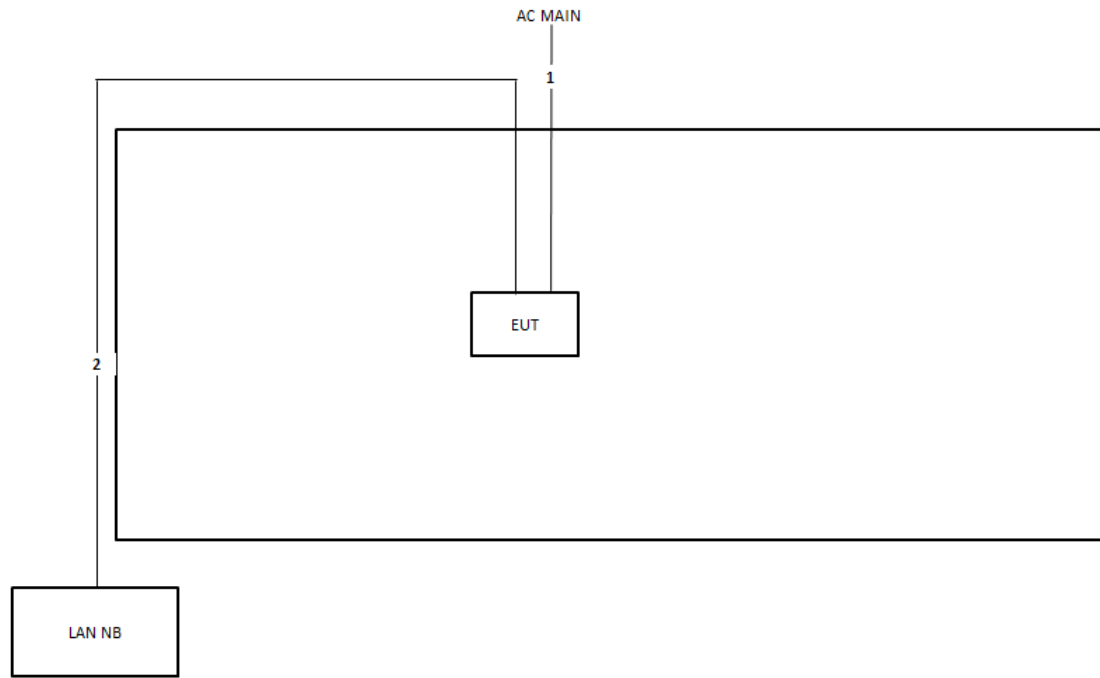


Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	RJ-45 cable	No	10m
2	RJ-45 cable	No	10m
3	HDMI cable	Yes	1.8m
4	Power cable	No	1.5m
5	Optical cable	No	1m
6	Audio cable	No	1.4m

Test Setup Diagram - Radiated Test > 1GHz



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

3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

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

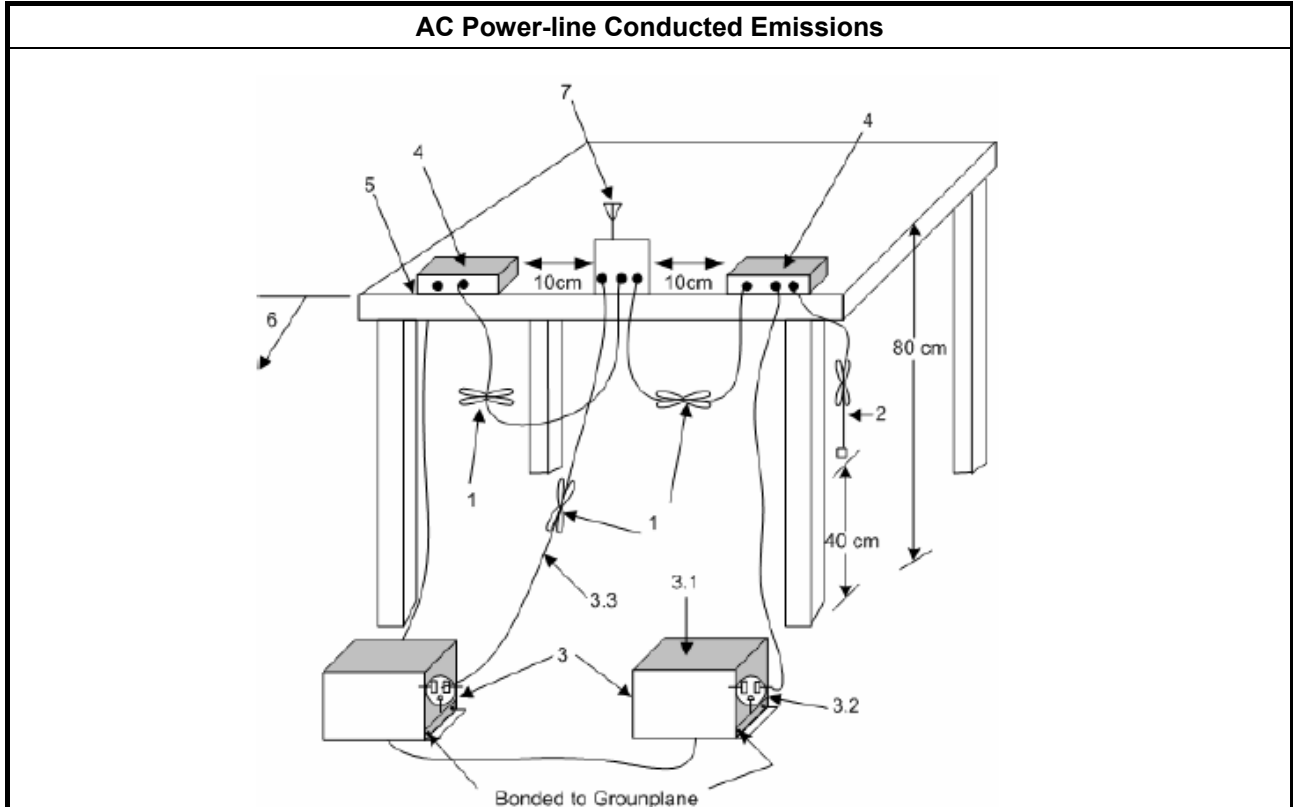
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
<input checked="" type="checkbox"/> Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup





3.1.5 Test Result of AC Power-line Conducted Emissions

Refer as Appendix B

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

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

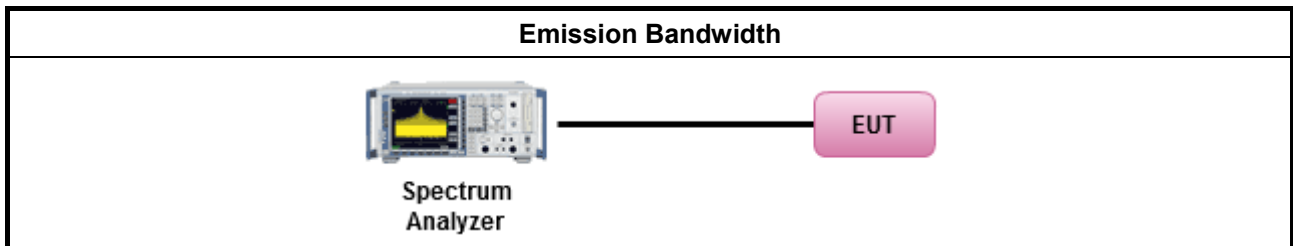
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.3 Fundamental Emission Output Power

3.3.1 Fundamental Emission Output Power Limit

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

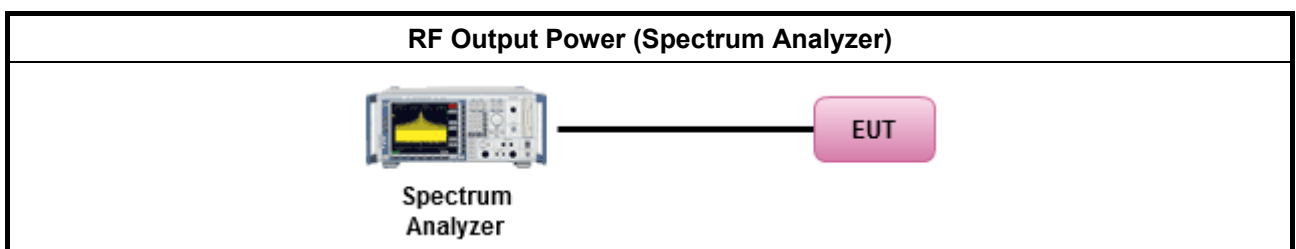
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ Maximum Peak Conducted Output Power 	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.1 Option 1 (RBW ≥ EBW method).
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.1.2 Option 2 (peak power meter for VBW ≥ DTS BW)
<ul style="list-style-type: none"> ▪ Maximum Conducted Output Power 	
[duty cycle ≥ 98% or external video / power trigger]	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.2 Method AVGSA-1 (spectral trace averaging).
<input type="checkbox"/>	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	
<input type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.2.4 Method AVGSA-2 (spectral trace averaging).
<input type="checkbox"/>	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	
<input checked="" type="checkbox"/>	Refer as FCC KDB 558074, clause 9.2.3 Method AVGPM-G (using an RF average power meter).
<ul style="list-style-type: none"> ▪ For conducted measurement. 	
<ul style="list-style-type: none"> ▪ If the EUT supports multiple transmit chains using options given below: Refer as 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. 	
<ul style="list-style-type: none"> ▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$ 	

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix D



3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

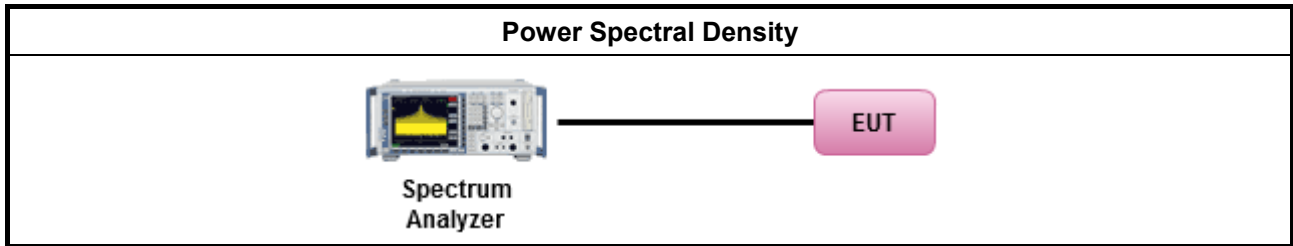
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 10.2 Method PKPSD (RBW=3-100kHz; Detector=peak). [duty cycle ≥ 98% or external video / power trigger]
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.3 Method AVGPSD-1 (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.4 Method AVGPSD-2 (slow sweep speed) duty cycle < 98% and average over on/off periods with duty factor
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.5 Method AVGPSD-1 Alt (spectral trace averaging).
<input type="checkbox"/> Refer as FCC KDB 558074, clause 10.6 Method AVGPSD-2 Alt. (slow sweep speed)
<ul style="list-style-type: none"> For conducted measurement. <ul style="list-style-type: none"> If The EUT supports multiple transmit chains using options given below: <ul style="list-style-type: none"> <input checked="" type="checkbox"/> 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. <input type="checkbox"/> 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, <input type="checkbox"/> 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 E

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

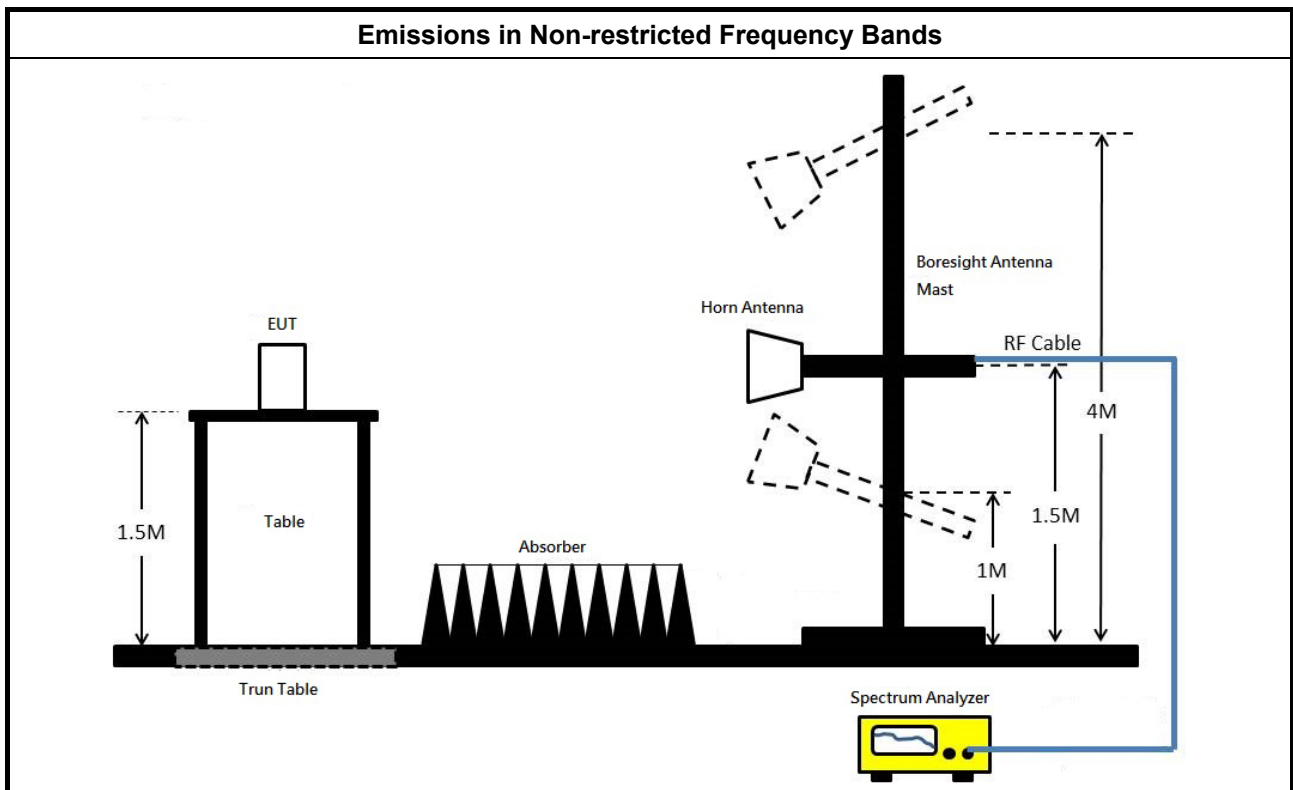
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
<ul style="list-style-type: none"> Refer as 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 F

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

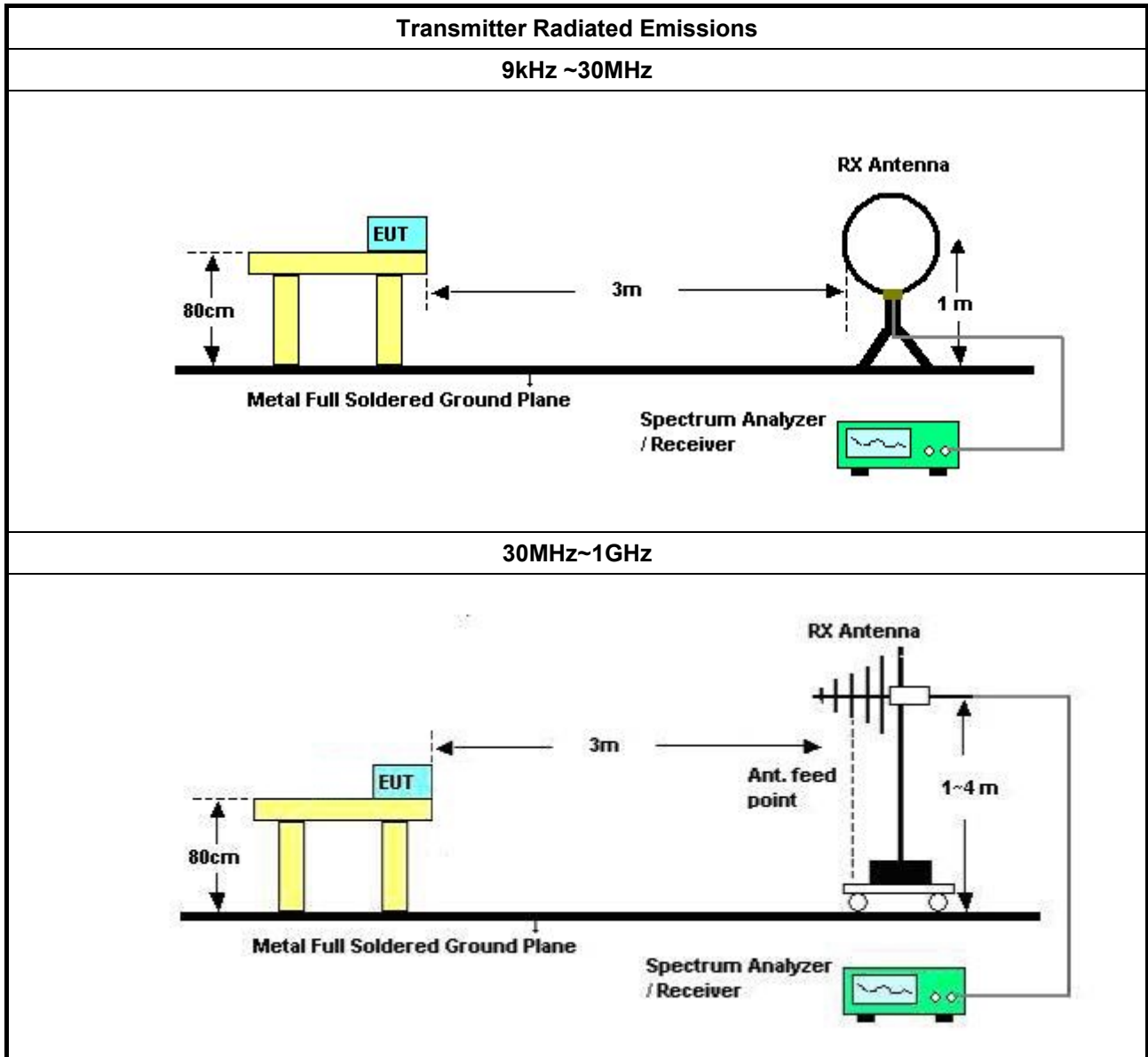
3.6.2 Measuring Instruments

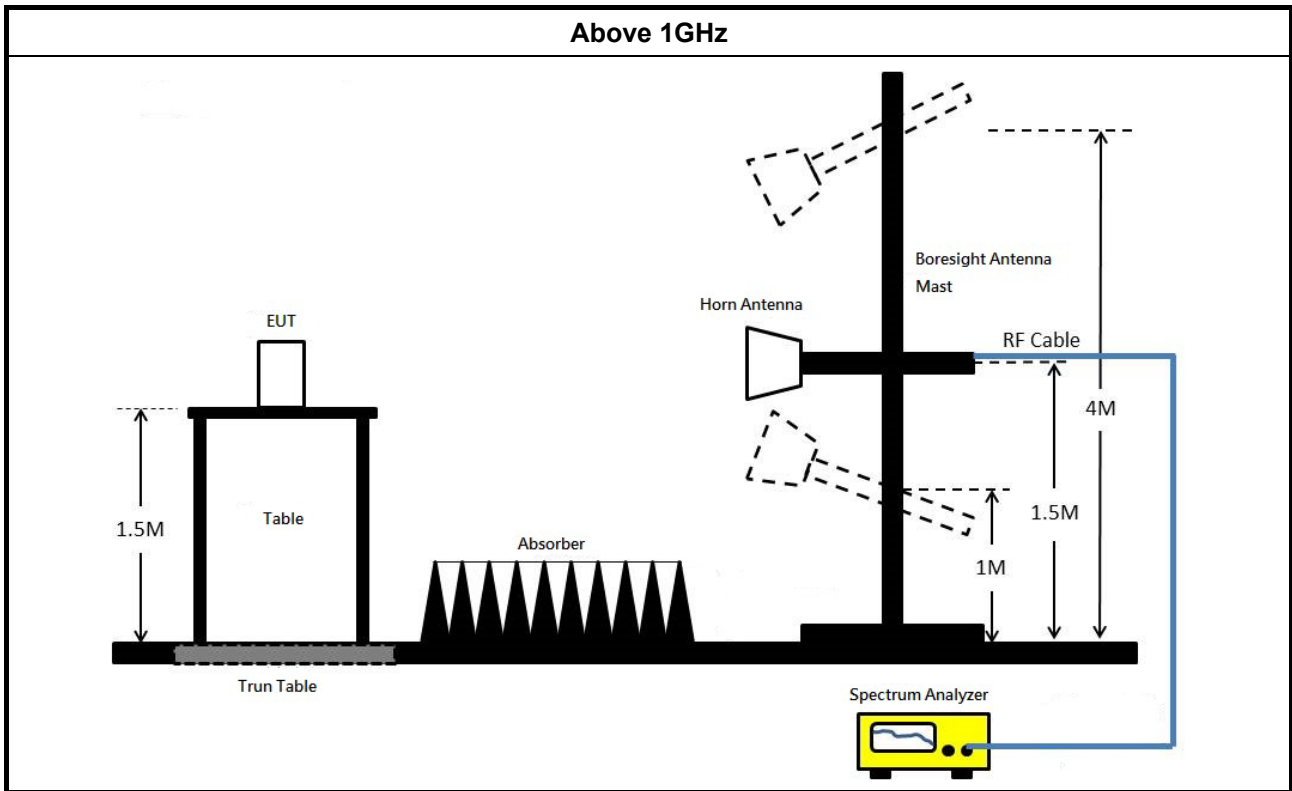
Refer a test equipment and calibration data table in this test report.

3.6.3 Test Procedures

Test Method	
<ul style="list-style-type: none"> ▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor]. 	
<ul style="list-style-type: none"> ▪ 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. 	
<ul style="list-style-type: none"> ▪ For the transmitter unwanted emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 12 for unwanted emissions into restricted bands.
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.1 Option 1 (trace averaging for duty cycle $\geq 98\%$)
	<input type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.2 Option 2 (trace averaging + duty factor).
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.5.3 Option 3 (Reduced VBW $\geq 1/T$).
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.3 (Reduced VBW). VBW $\geq 1/T$, where T is pulse time.
	<input type="checkbox"/> Refer as ANSI C63.10, clause 4.2.3.2.4 average value of pulsed emissions.
	<input checked="" type="checkbox"/> Refer as FCC KDB 558074, clause 12.2.4 measurement procedure peak limit.
<ul style="list-style-type: none"> ▪ For the transmitter band-edge emissions shall be measured using following options below: 	
	<ul style="list-style-type: none"> ▪ Refer as 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.
	<ul style="list-style-type: none"> ▪ Refer as FCC KDB 558074, clause 13.2 (ANSI C63.10, clause 6.9.3) for marker-delta method for band-edge measurements.
	<ul style="list-style-type: none"> ▪ 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).
<ul style="list-style-type: none"> ▪ For conducted and cabinet radiation measurement, refer as FCC KDB 558074, clause 12.2.2. 	
	<ul style="list-style-type: none"> ▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
	<ul style="list-style-type: none"> ▪ For 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 G



4 Test Equipment and Calibration Data

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.45GHz	Jan. 27, 0216	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Dec. 08, 2015	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Dec. 23, 2015	Conduction (CO01-CB)
COND Cable	Woken	Cable	01	150kHz ~ 30MHz	May 24, 2016	Conduction (CO01-CB)
Software	Audix	E3	6.120210n	-	N.C.R.	Conduction (CO01-CB)
BILOG ANTENNA	TESEQ	CBL6112D	37880	20MHz ~ 2GHz	Aug. 30, 2016	Radiation (03CH01-CB)
Horn Antenna	EMCO	3115	00075790	750MHz ~ 18GHz	Oct. 22, 2015	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Jul. 25, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8447D	2944A10991	0.1MHz ~ 1.3GHz	Mar. 15, 2016	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02310	1GHz ~ 26.5GHz	Jan. 18, 2016	Radiation (03CH01-CB)
Pre-Amplifier	WM	TF-130N-R1	923365	26GHz ~ 40GHz	Nov. 13, 2015	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	Oct. 27, 2015	Radiation (03CH01-CB)
EMI Test	R&S	ESCS	100355	9kHz ~ 2.75GHz	May 16, 2016	Radiation (03CH01-CB)
RF Cable-low	Woken	Low Cable-1	N/A	30 MHz ~ 1 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-16	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-17	N/A	1 GHz ~ 18 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-1	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
RF Cable-high	Woken	High Cable-40G-2	N/A	18GHz ~ 40 GHz	Nov. 02, 2015	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-10-7	N/A	N/A	Radiation (03CH01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	Mar. 16, 2016*	Radiation (03CH01-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	Dec. 09, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-6	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-7	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-8	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Remark
RF Cable-high	Woken	RG402	High Cable-9	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz – 26.5 GHz	Nov. 02, 2015	Conducted (TH01-CB)
Power Sensor	Agilent	U2021XA	MY53410001	50MHz~18GHz	Nov. 02, 2015	Conducted (TH01-CB)

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

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

N.C.R. means Non-Calibration required.



AC Power-line Conducted Emissions Result									
Operating Mode	2	Power Phase	Neutral						
Operating Function	Normal Link								
Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark	
MHz	dBuV	dB	dBuV	dBuV	dB	dB			
1	0.2208	35.61 -17.18	52.79	25.61	9.97	0.03	NEUTRAL	Average	
2	0.2208	43.60 -19.19	62.79	33.60	9.97	0.03	NEUTRAL	QP	
3	0.3003	35.94 -14.30	50.24	25.94	9.96	0.04	NEUTRAL	Average	
4	0.3003	45.33 -14.91	60.24	35.33	9.96	0.04	NEUTRAL	QP	
5	0.5979	28.26 -17.74	46.00	18.25	9.97	0.04	NEUTRAL	Average	
6	0.5979	34.98 -21.02	56.00	24.97	9.97	0.04	NEUTRAL	QP	
7	2.2132	25.49 -20.51	46.00	15.43	10.00	0.06	NEUTRAL	Average	
8	2.2132	32.67 -23.33	56.00	22.61	10.00	0.06	NEUTRAL	QP	
9	15.0750	22.02 -27.98	50.00	11.53	10.23	0.26	NEUTRAL	Average	
10	15.0750	28.66 -31.34	60.00	18.17	10.23	0.26	NEUTRAL	QP	
11	23.8476	27.64 -22.36	50.00	17.03	10.34	0.27	NEUTRAL	Average	
12	23.8476	33.65 -26.35	60.00	23.04	10.34	0.27	NEUTRAL	QP	

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

AC Power-line Conducted Emissions Result									
Operating Mode	2	Power Phase	Line						
Operating Function	Normal Link								
Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Pol/Phase	Remark	
MHz	dBuV	dB	dBuV	dBuV	dB	dB			
1	0.2208	34.48 -18.31	52.79	24.49	9.96	0.03	LINE	Average	
2	0.2208	42.21 -20.58	62.79	32.22	9.96	0.03	LINE	QP	
3	0.3035	34.63 -15.52	50.15	24.64	9.95	0.04	LINE	Average	
4	0.3035	43.44 -16.71	60.15	33.45	9.95	0.04	LINE	QP	
5	0.7430	27.25 -18.75	46.00	17.25	9.96	0.04	LINE	Average	
6	0.7430	34.13 -21.87	56.00	24.13	9.96	0.04	LINE	QP	
7	2.2015	25.81 -20.19	46.00	15.75	10.00	0.06	LINE	Average	
8	2.2015	32.82 -23.18	56.00	22.76	10.00	0.06	LINE	QP	
9	6.0885	22.11 -27.89	50.00	11.90	10.08	0.13	LINE	Average	
10	6.0885	28.85 -31.15	60.00	18.64	10.08	0.13	LINE	QP	
11	23.0181	23.37 -26.63	50.00	12.70	10.40	0.27	LINE	Average	
12	23.0181	30.37 -29.63	60.00	19.70	10.40	0.27	LINE	QP	

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

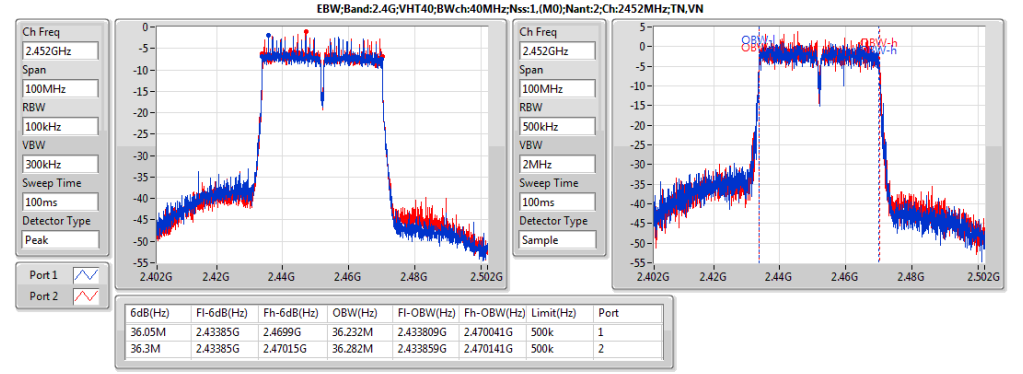
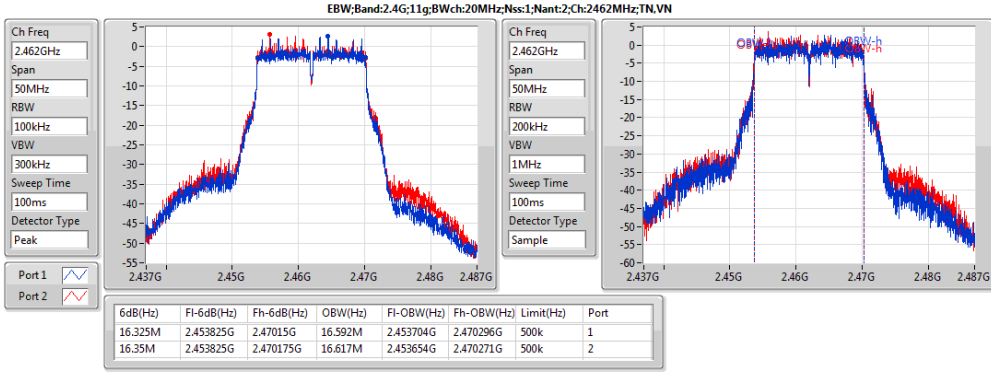
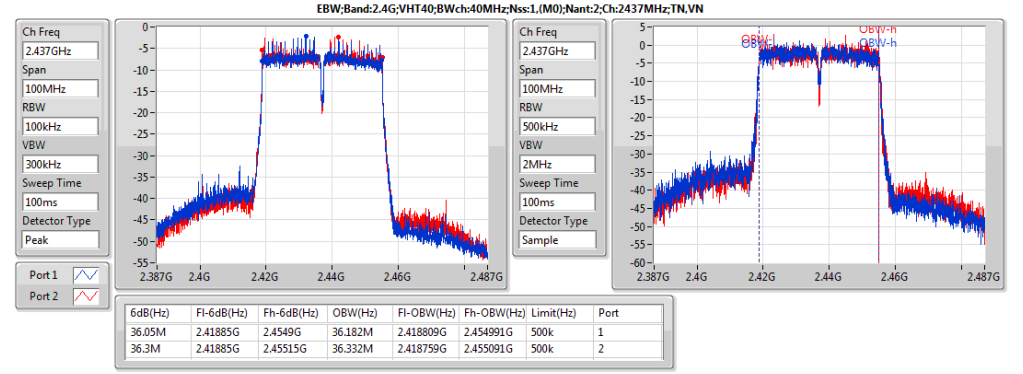
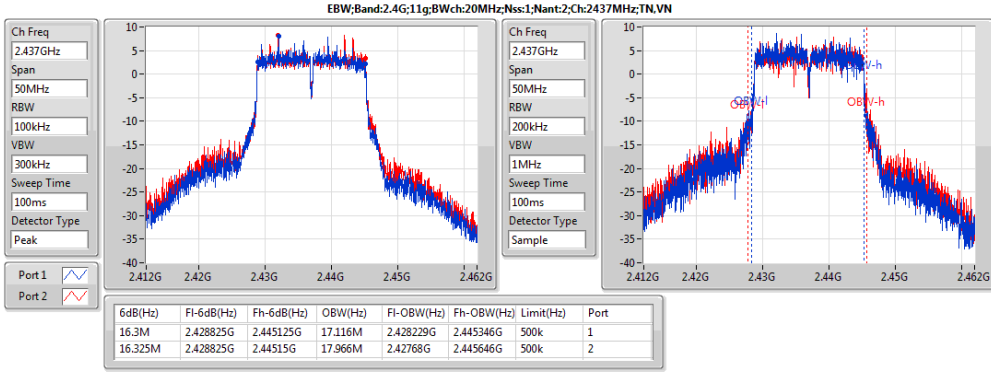
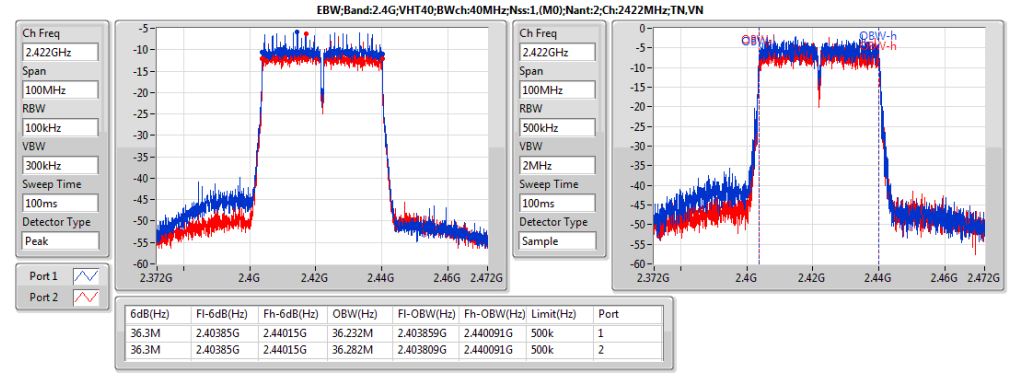
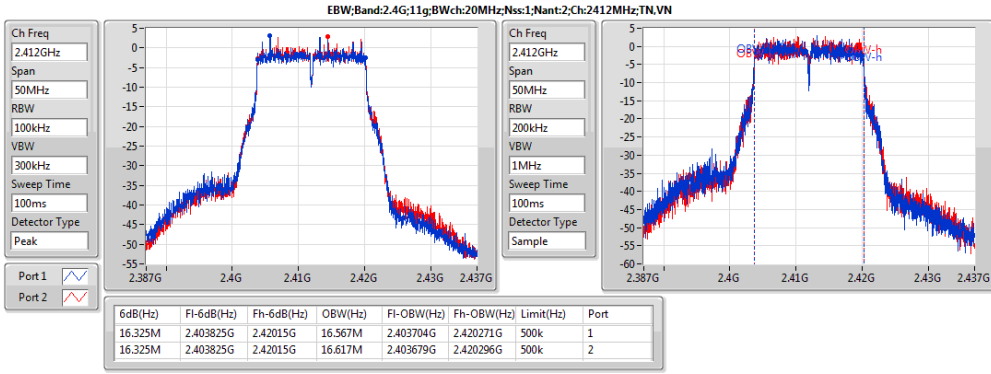
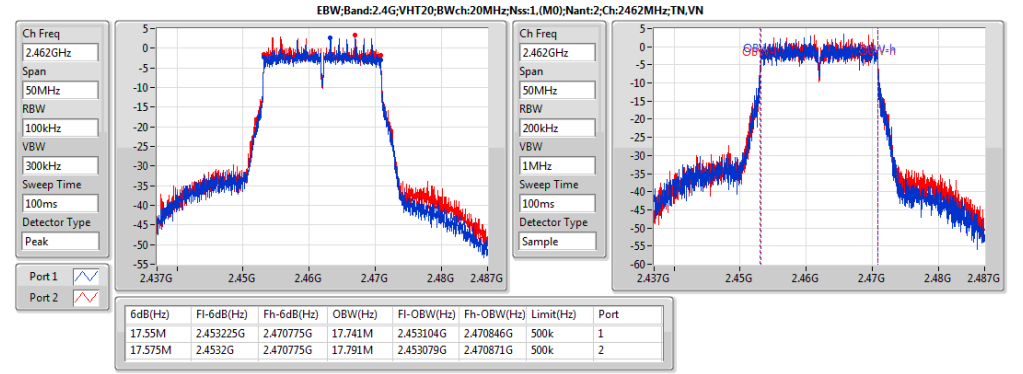
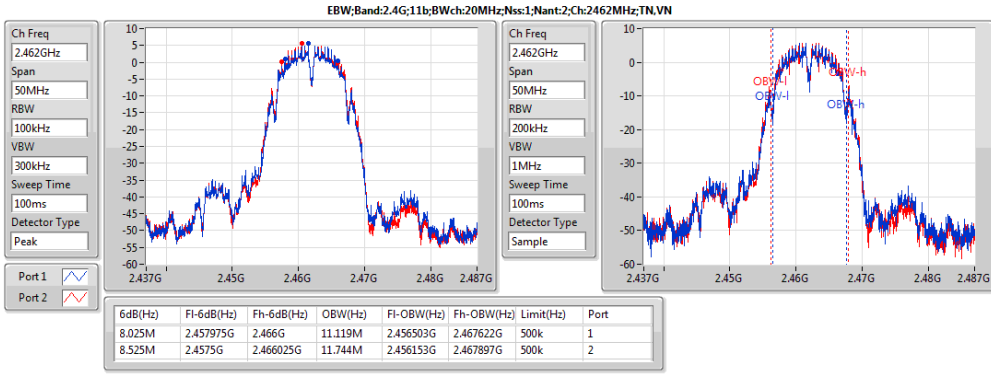
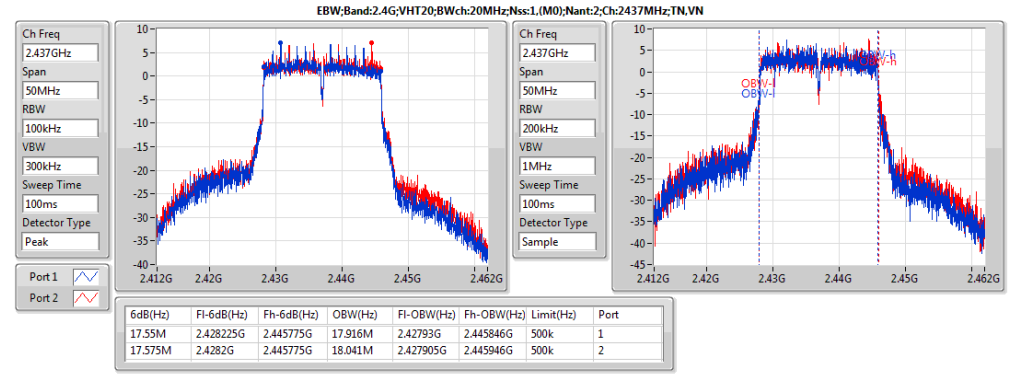
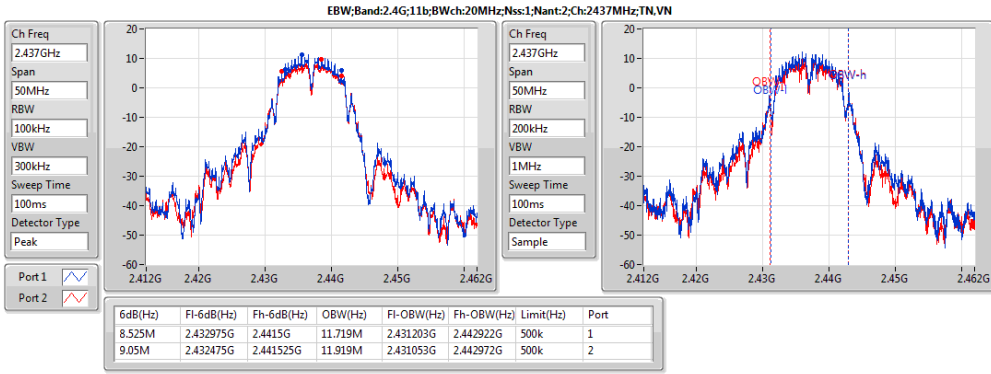
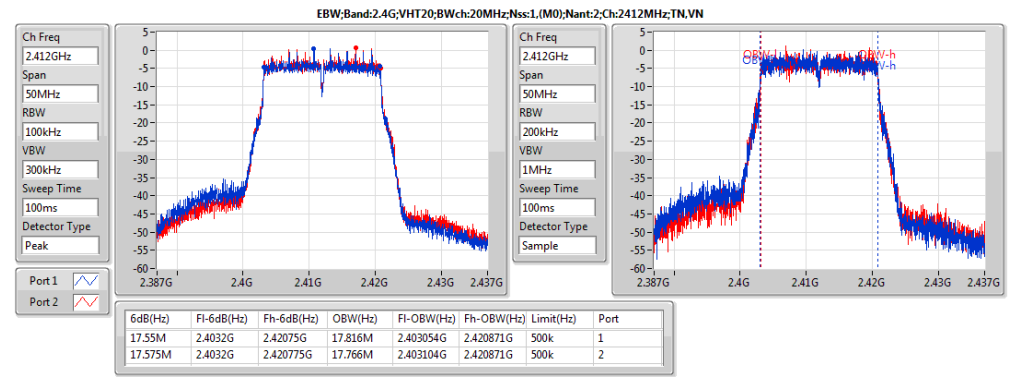
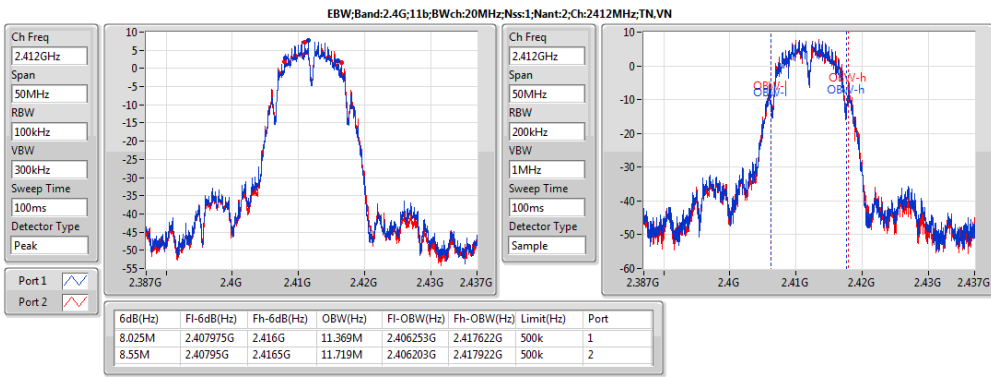


Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4G;11b;Nss1;Ntx2	9.05M	11.919M	11M9G1D	8.025M	11.119M
2.4G;11g;Nss1;Ntx2	16.35M	17.966M	18MOD1D	16.3M	16.567M
2.4G;VHT20;Nss1,(M0);Ntx2	17.575M	18.041M	18MOD1D	17.55M	17.741M
2.4G;VHT40;Nss1,(M0);Ntx2	36.3M	36.332M	36M3D1D	36.05M	36.182M

Result

Mode	Result	Limit	P1-N dB (Hz)	P1-OBW (Hz)	P2-N dB (Hz)	P2-OBW (Hz)
2.4G:11b:Nss1:Ntx2:2412	Pass	500k	8.025M	11.369M	8.55M	11.719M
2.4G:11b:Nss1:Ntx2:2437	Pass	500k	8.525M	11.719M	9.05M	11.919M
2.4G:11b:Nss1:Ntx2:2462	Pass	500k	8.025M	11.119M	8.525M	11.744M
2.4G:11g:Nss1:Ntx2:2412	Pass	500k	16.325M	16.567M	16.325M	16.617M
2.4G:11g:Nss1:Ntx2:2437	Pass	500k	16.3M	17.116M	16.325M	17.966M
2.4G:11g:Nss1:Ntx2:2462	Pass	500k	16.325M	16.592M	16.35M	16.617M
2.4G:VHT20:Nss1,(M0):Ntx2:2412	Pass	500k	17.55M	17.816M	17.575M	17.766M
2.4G:VHT20:Nss1,(M0):Ntx2:2437	Pass	500k	17.55M	17.916M	17.575M	18.041M
2.4G:VHT20:Nss1,(M0):Ntx2:2462	Pass	500k	17.55M	17.741M	17.575M	17.791M
2.4G:VHT40:Nss1,(M0):Ntx2:2422	Pass	500k	36.3M	36.232M	36.3M	36.282M
2.4G:VHT40:Nss1,(M0):Ntx2:2437	Pass	500k	36.05M	36.182M	36.3M	36.332M
2.4G:VHT40:Nss1,(M0):Ntx2:2452	Pass	500k	36.05M	36.232M	36.3M	36.282M





Summary

Mode	Sum (dBm)	Sum (W)	EIRP (dBm)	EIRP (W)
2.4G:11b:Nss1:Ntx2	24.33	0.27102	28.51	0.70958
2.4G:11g:Nss1:Ntx2	23.75	0.23714	27.93	0.62087
2.4G:VHT20:Nss1,(M0):Ntx2	22.80	0.19055	26.98	0.49888
2.4G:VHT40:Nss1,(M0):Ntx2	16.90	0.04898	21.08	0.12823

Result

Mode	Result	DG (dBi)	EIRP (dBm)	EIRP Lim. (dBm)	Sum (dBm)	Sum Lim. (dBm)	P1 (dBm)	P2 (dBm)
2.4G:11b:Nss1:Ntx2:2412	Pass	4.18	24.59	36.00	20.41	30.00	17.23	17.57
2.4G:11b:Nss1:Ntx2:2437	Pass	4.18	28.51	36.00	24.33	30.00	21.73	20.87
2.4G:11b:Nss1:Ntx2:2462	Pass	4.18	23.05	36.00	18.87	30.00	15.75	15.97
2.4G:11g:Nss1:Ntx2:2412	Pass	4.18	22.52	36.00	18.34	30.00	15.38	15.28
2.4G:11g:Nss1:Ntx2:2437	Pass	4.18	27.93	36.00	23.75	30.00	20.63	20.84
2.4G:11g:Nss1:Ntx2:2462	Pass	4.18	22.98	36.00	18.80	30.00	15.62	15.95
2.4G:VHT20:Nss1,(M0):Ntx2:2412	Pass	4.18	20.43	36.00	16.25	30.00	13.23	13.24
2.4G:VHT20:Nss1,(M0):Ntx2:2437	Pass	4.18	26.98	36.00	22.80	30.00	19.64	19.93
2.4G:VHT20:Nss1,(M0):Ntx2:2462	Pass	4.18	23.05	36.00	18.87	30.00	15.51	16.19
2.4G:VHT40:Nss1,(M0):Ntx2:2422	Pass	4.18	16.57	36.00	12.39	30.00	9.93	8.74
2.4G:VHT40:Nss1,(M0):Ntx2:2437	Pass	4.18	20.57	36.00	16.39	30.00	13.17	13.58
2.4G:VHT40:Nss1,(M0):Ntx2:2452	Pass	4.18	21.08	36.00	16.90	30.00	13.84	13.93

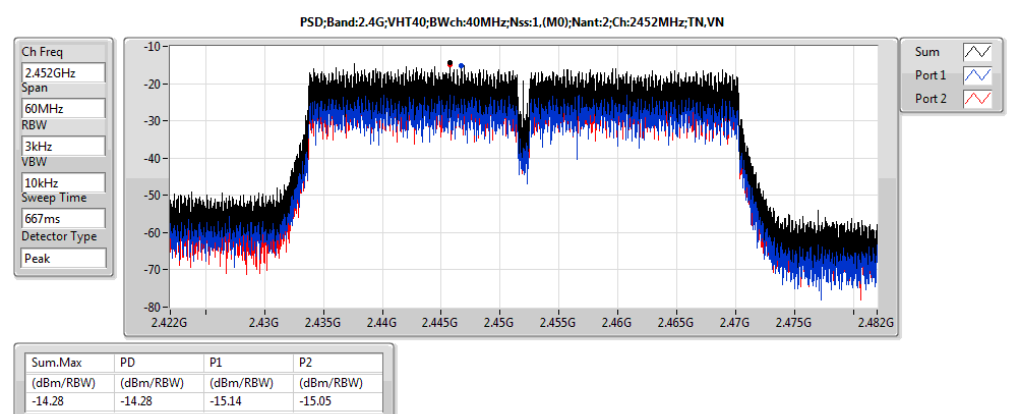
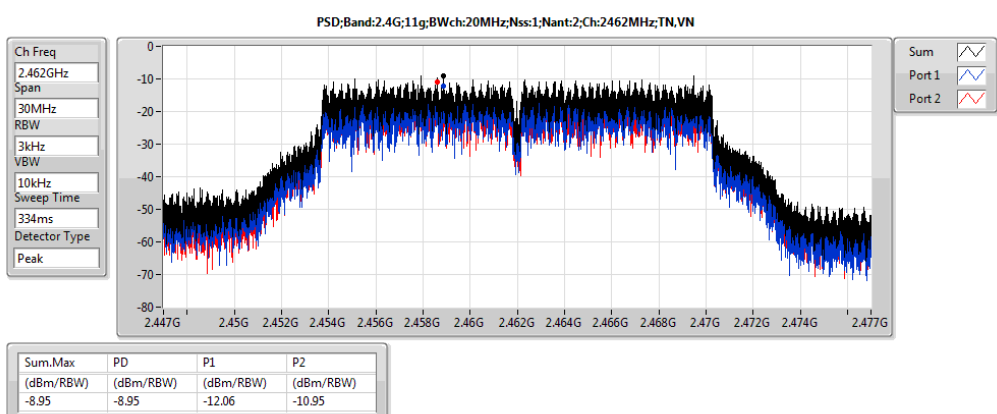
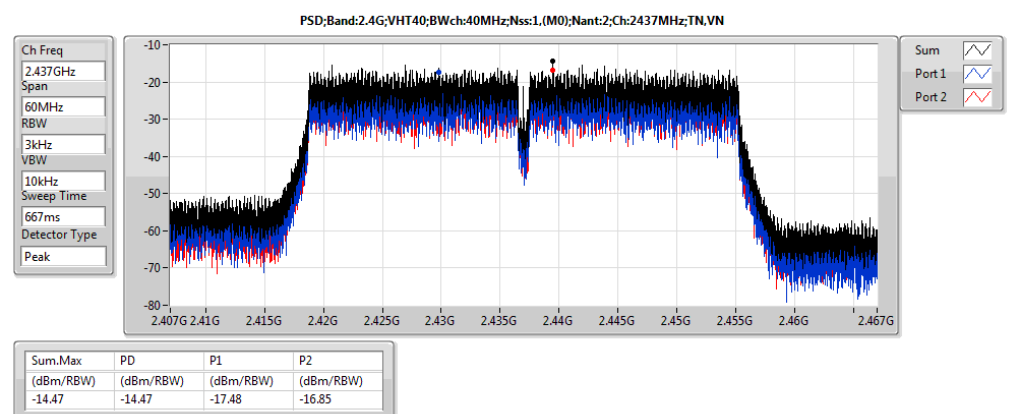
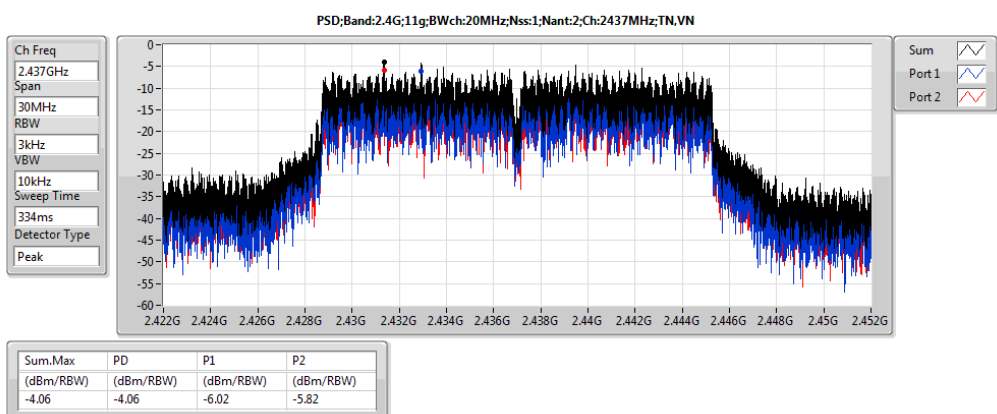
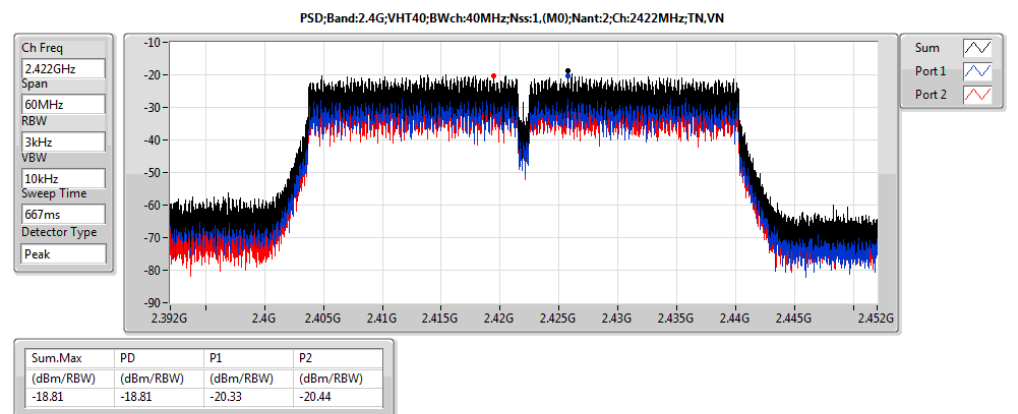
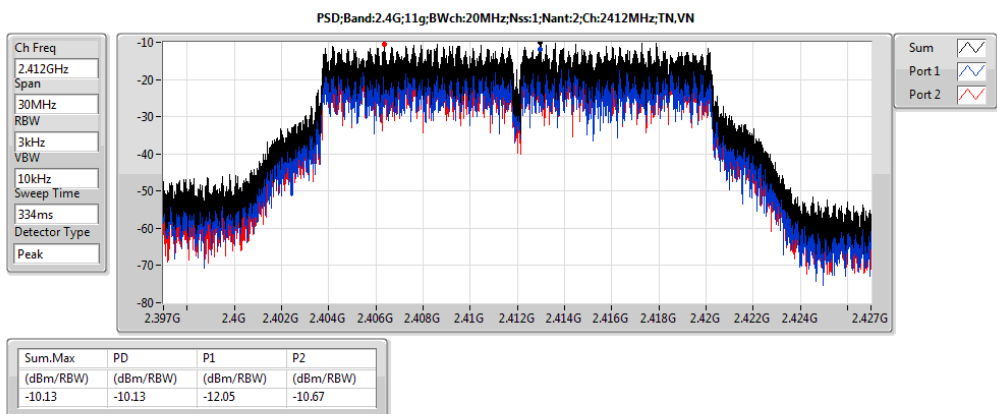
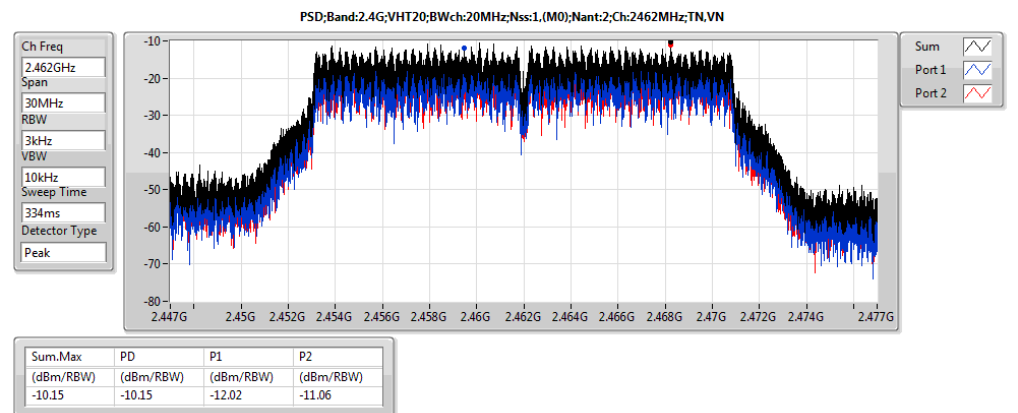
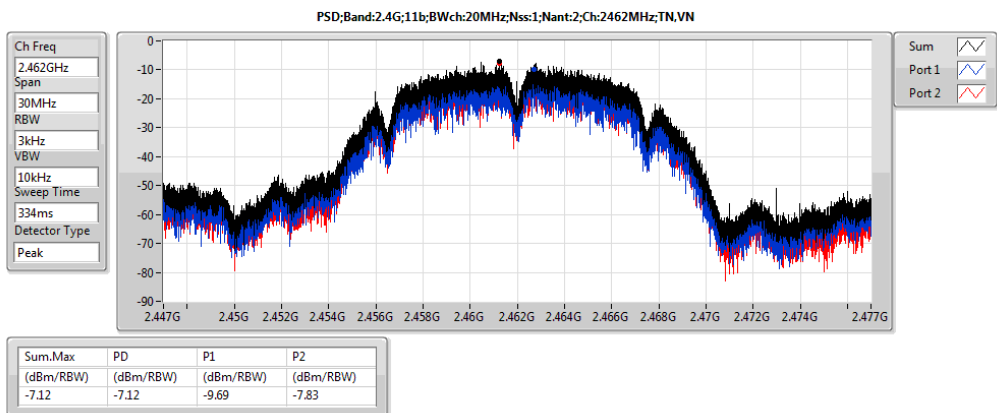
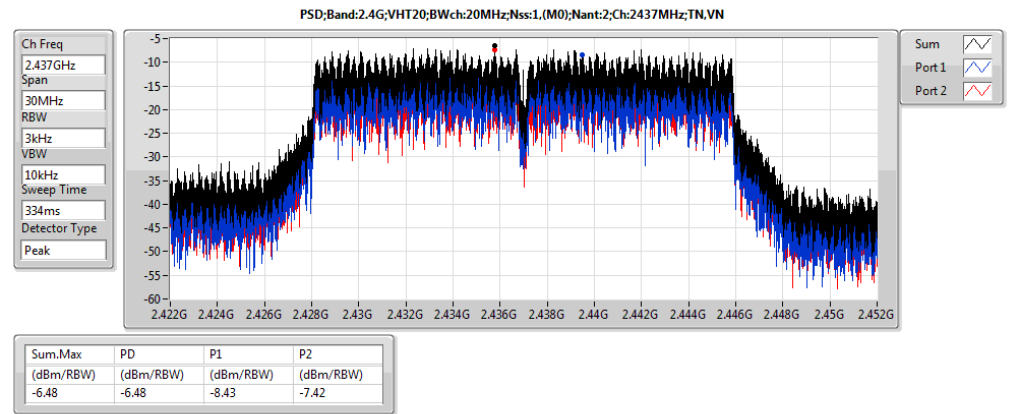
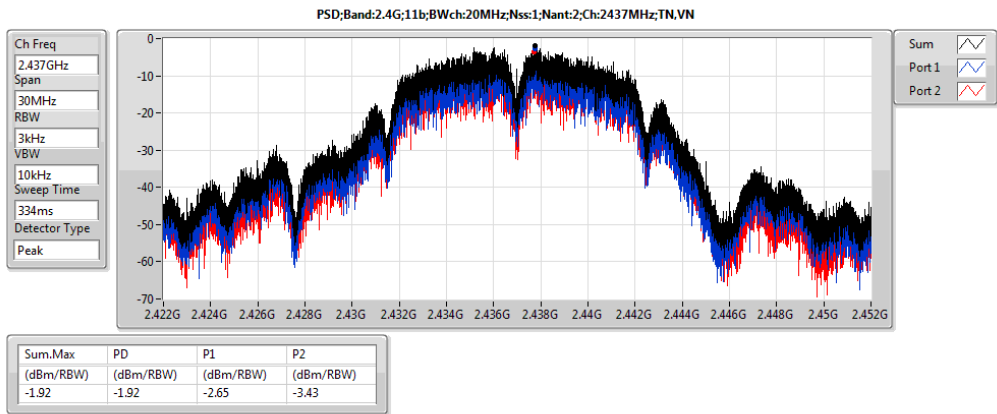
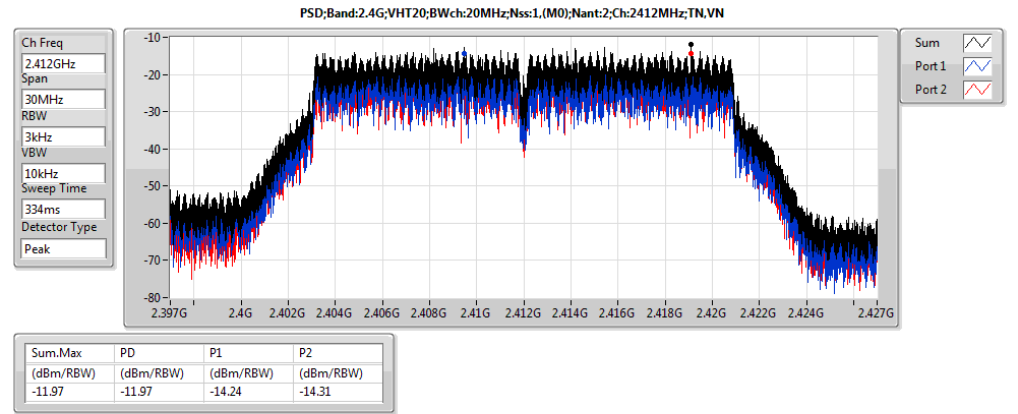
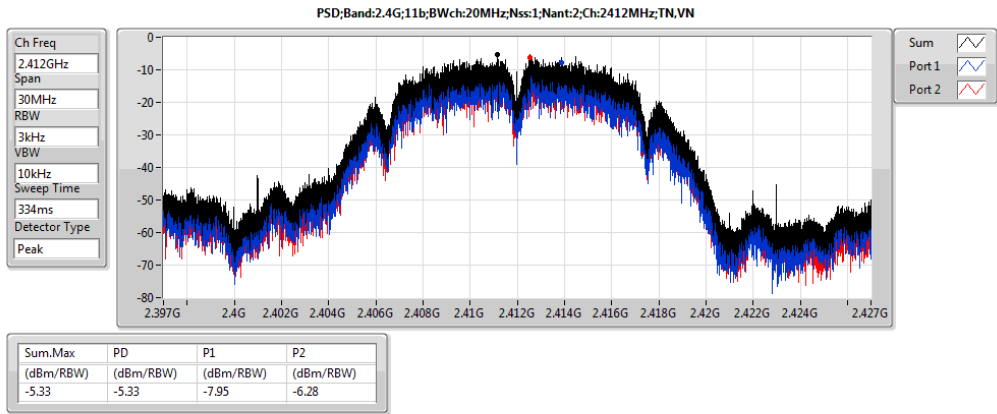


Summary

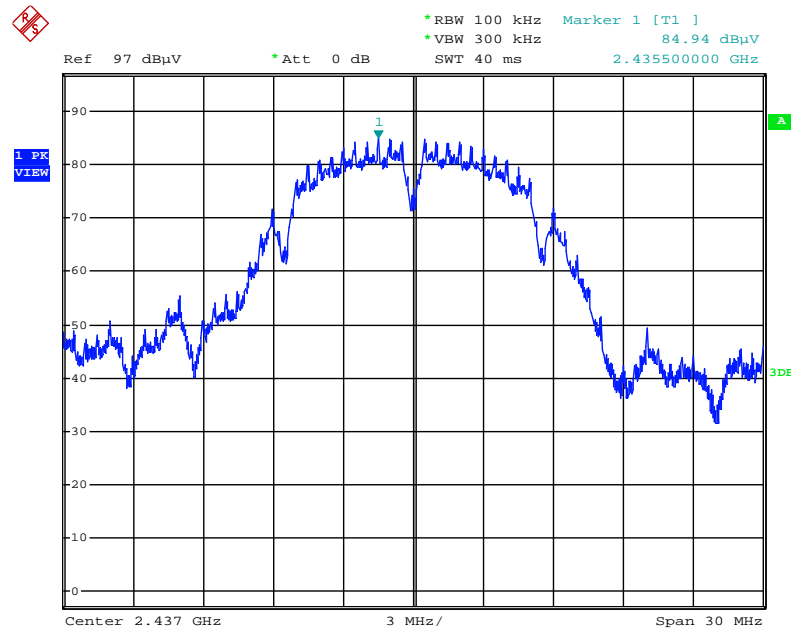
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2.4G;11b;Nss1;Ntx2	-1.92	5.25
2.4G;11g;Nss1;Ntx2	-4.06	3.11
2.4G;VHT20;Nss1,(M0);Ntx2	-6.48	0.69
2.4G;VHT40;Nss1,(M0);Ntx2	-14.28	-7.11

Result

Mode	Result	Meas.RBW (Hz)	Lim.RBW (Hz)	BWCF (dB)	DG (dBi)	Sum.Max (dBm/RBW)	PD (dBm/RBW)	PD.Limit (dBm/RBW)	EIRP.PD (dBm/RBW)	P1 (dBm/RBW)	P2 (dBm/RBW)
2.4G;11b;Nss1;Ntx2;2412	Pass	3k	3k	0.00	7.17	-5.33	-5.33	6.83	1.84	-7.95	-6.28
2.4G;11b;Nss1;Ntx2;2437	Pass	3k	3k	0.00	7.17	-1.92	-1.92	6.83	5.25	-2.65	-3.43
2.4G;11b;Nss1;Ntx2;2462	Pass	3k	3k	0.00	7.17	-7.12	-7.12	6.83	0.05	-9.69	-7.83
2.4G;11g;Nss1;Ntx2;2412	Pass	3k	3k	0.00	7.17	-10.13	-10.13	6.83	-2.96	-12.05	-10.67
2.4G;11g;Nss1;Ntx2;2437	Pass	3k	3k	0.00	7.17	-4.06	-4.06	6.83	3.11	-6.02	-5.82
2.4G;11g;Nss1;Ntx2;2462	Pass	3k	3k	0.00	7.17	-8.95	-8.95	6.83	-1.78	-12.06	-10.95
2.4G;VHT20;Nss1,(M0);Ntx2;2412	Pass	3k	3k	0.00	7.17	-11.97	-11.97	6.83	-4.80	-14.24	-14.31
2.4G;VHT20;Nss1,(M0);Ntx2;2437	Pass	3k	3k	0.00	7.17	-6.48	-6.48	6.83	0.69	-8.43	-7.42
2.4G;VHT20;Nss1,(M0);Ntx2;2462	Pass	3k	3k	0.00	7.17	-10.15	-10.15	6.83	-2.98	-12.02	-11.06
2.4G;VHT40;Nss1,(M0);Ntx2;2422	Pass	3k	3k	0.00	7.17	-18.81	-18.81	6.83	-11.64	-20.33	-20.44
2.4G;VHT40;Nss1,(M0);Ntx2;2437	Pass	3k	3k	0.00	7.17	-14.47	-14.47	6.83	-7.30	-17.48	-16.85
2.4G;VHT40;Nss1,(M0);Ntx2;2452	Pass	3k	3k	0.00	7.17	-14.28	-14.28	6.83	-7.11	-15.14	-15.05

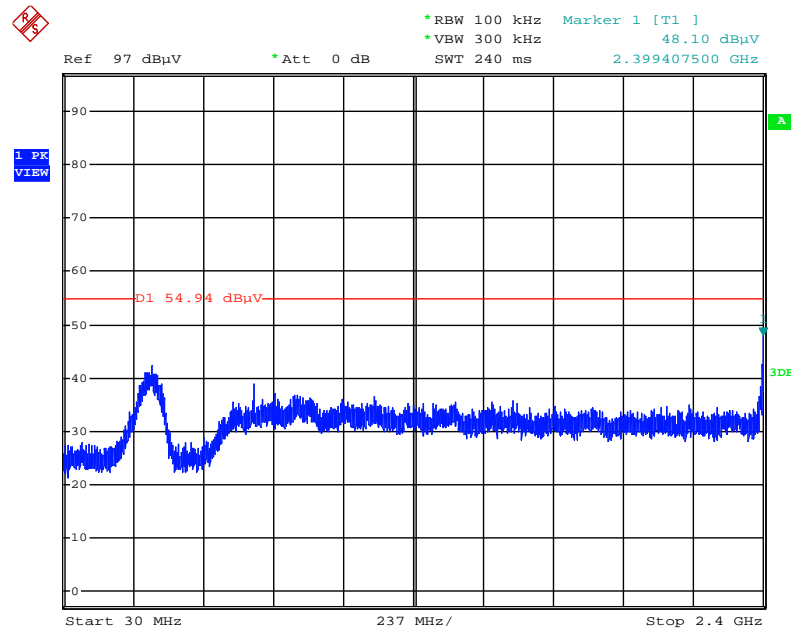


Plot on Configuration IEEE 802.11b / Reference Level



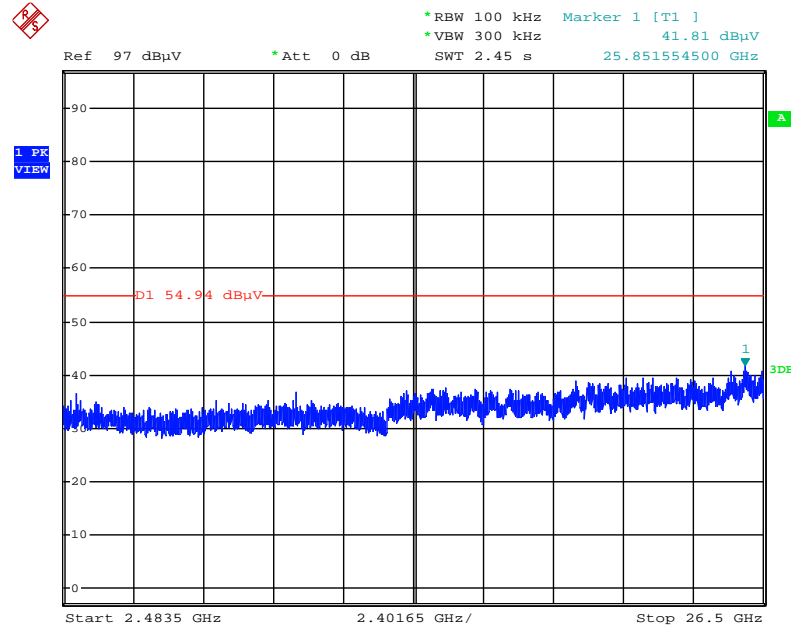
Date: 14.SEP.2016 00:34:14

Plot on Configuration IEEE 802.11b / CH 1 / 30MHz~2400MHz (down 30dBc)



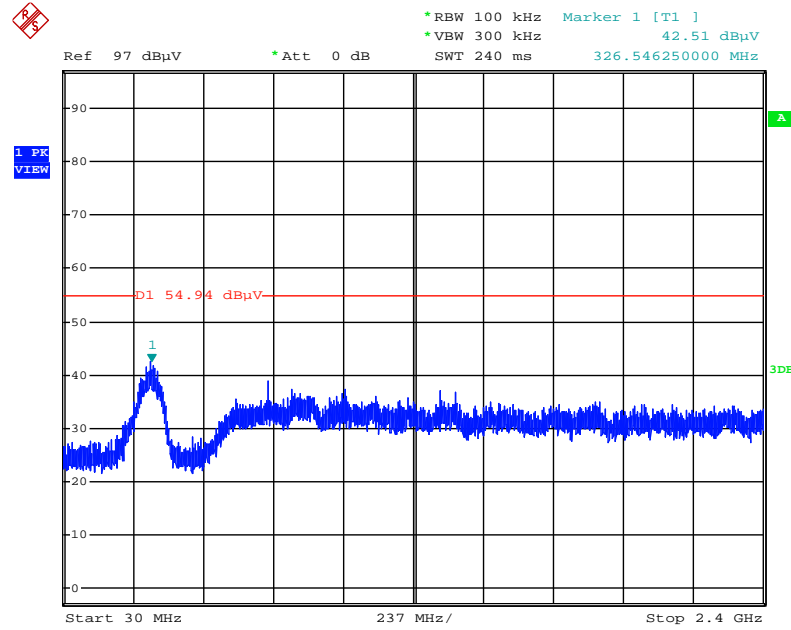
Date: 14.SEP.2016 00:36:16

Plot on Configuration IEEE 802.11b / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



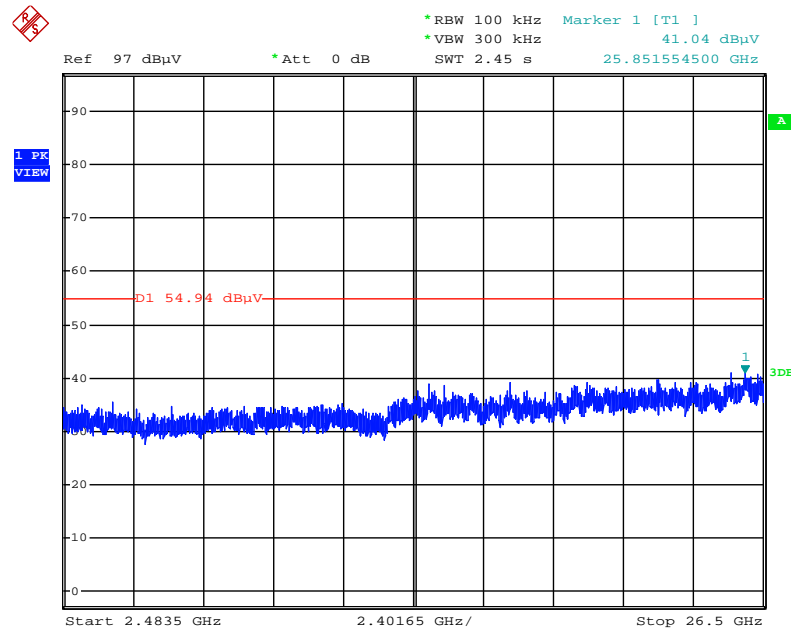
Date: 14.SEP.2016 00:36:46

Plot on Configuration IEEE 802.11b / CH 11 / 30MHz~2400MHz (down 30dBc)



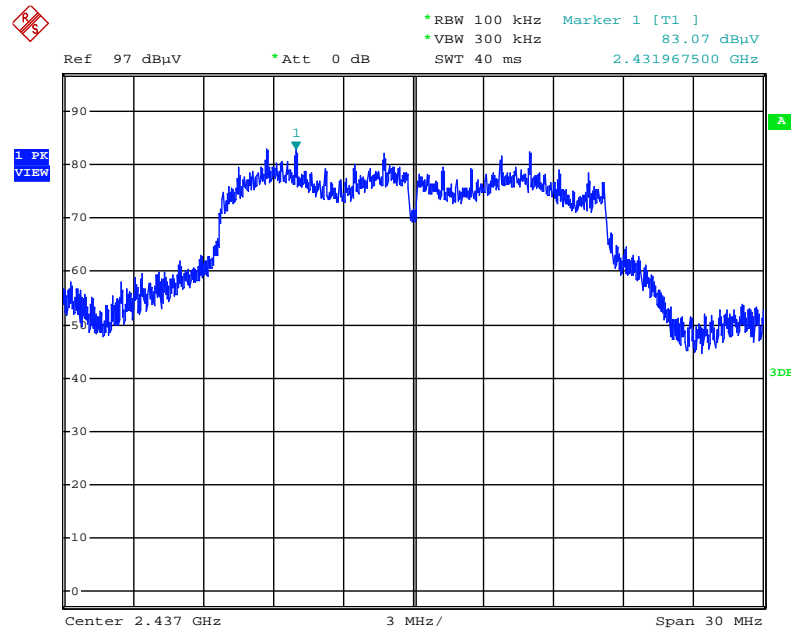
Date: 14.SEP.2016 00:37:29

Plot on Configuration IEEE 802.11b / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



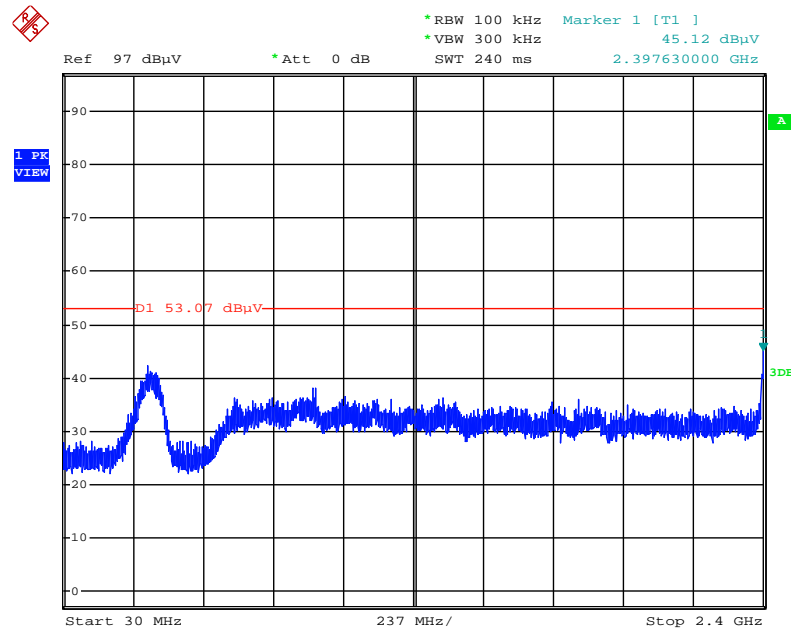
Date: 14.SEP.2016 00:37:58

Plot on Configuration IEEE 802.11g / Reference Level



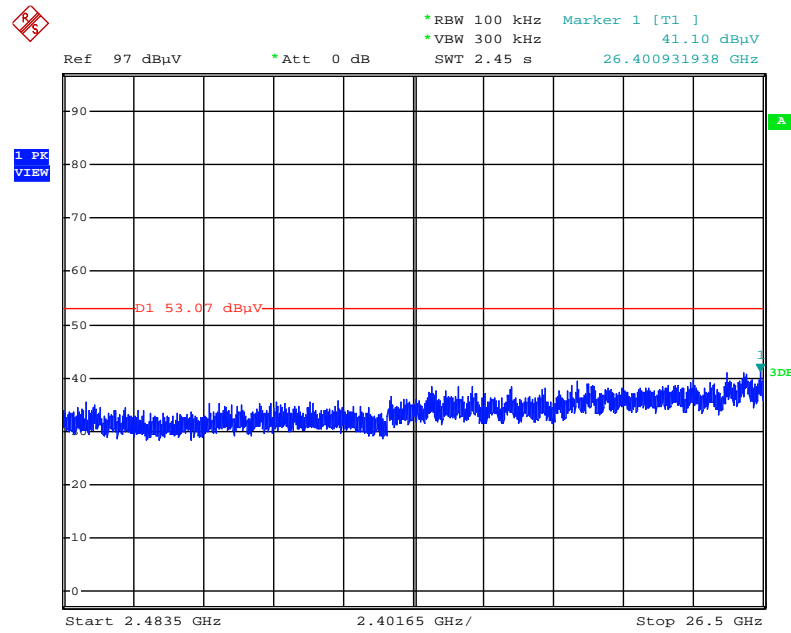
Date: 14.SEP.2016 00:39:25

Plot on Configuration IEEE 802.11g / CH 1 / 30MHz~2400MHz (down 30dBc)



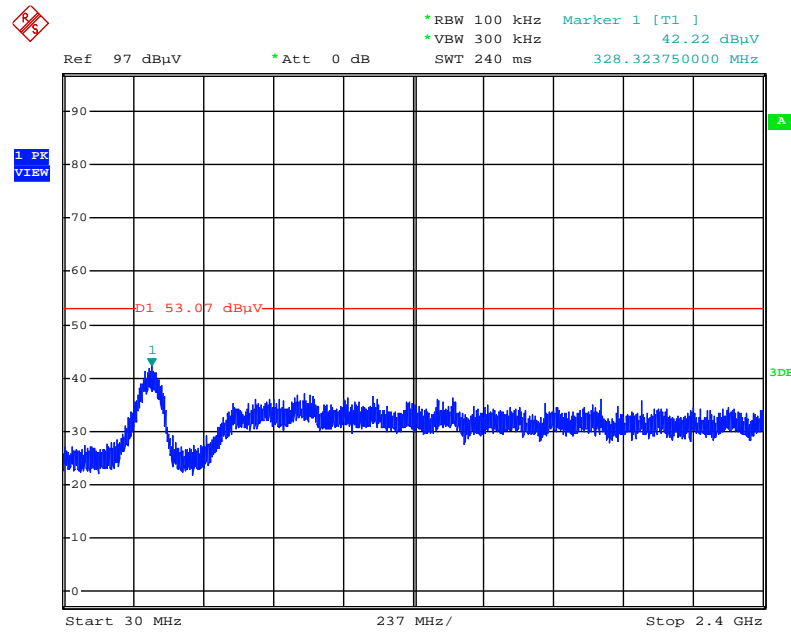
Date: 14.SEP.2016 00:40:26

Plot on Configuration IEEE 802.11g / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



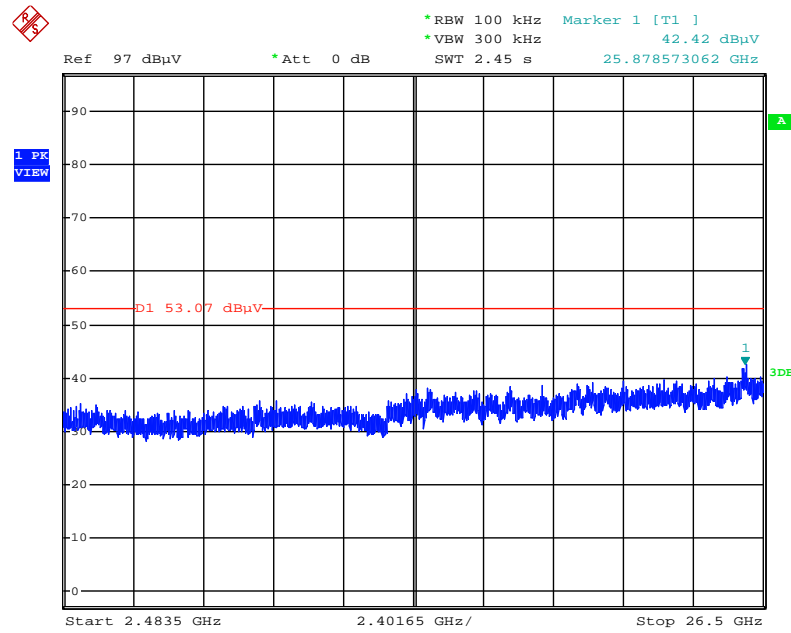
Date: 14.SEP.2016 00:41:23

Plot on Configuration IEEE 802.11g / CH 11 / 30MHz~2400MHz (down 30dBc)



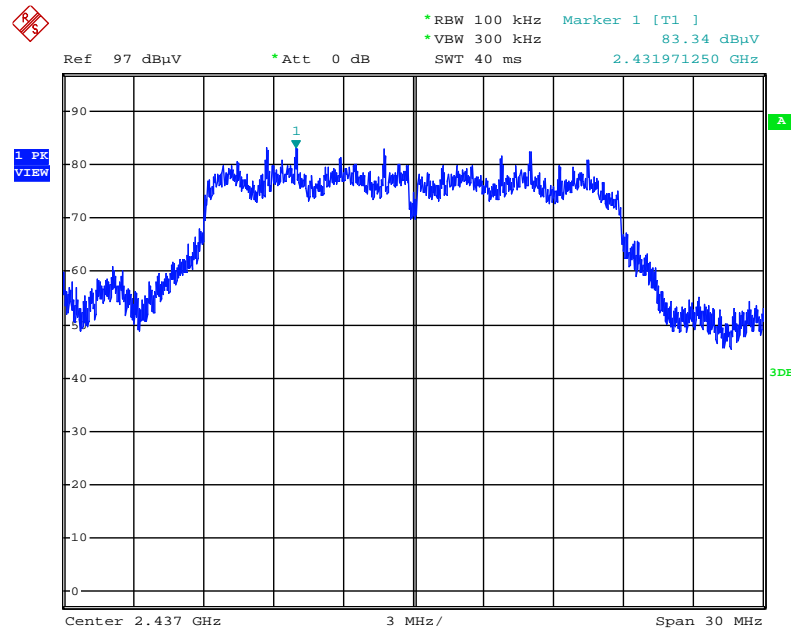
Date: 14.SEP.2016 00:41:59

Plot on Configuration IEEE 802.11g / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



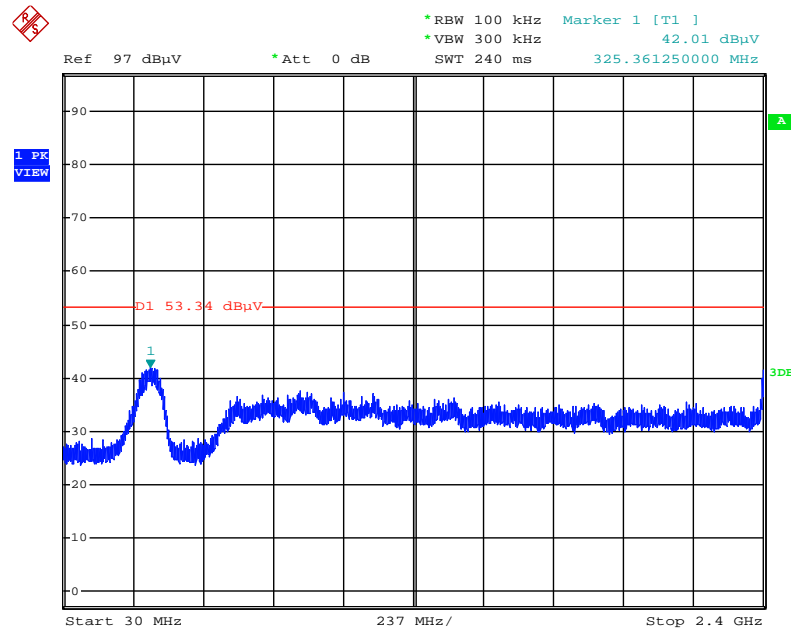
Date: 14.SEP.2016 00:42:41

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / Reference Level



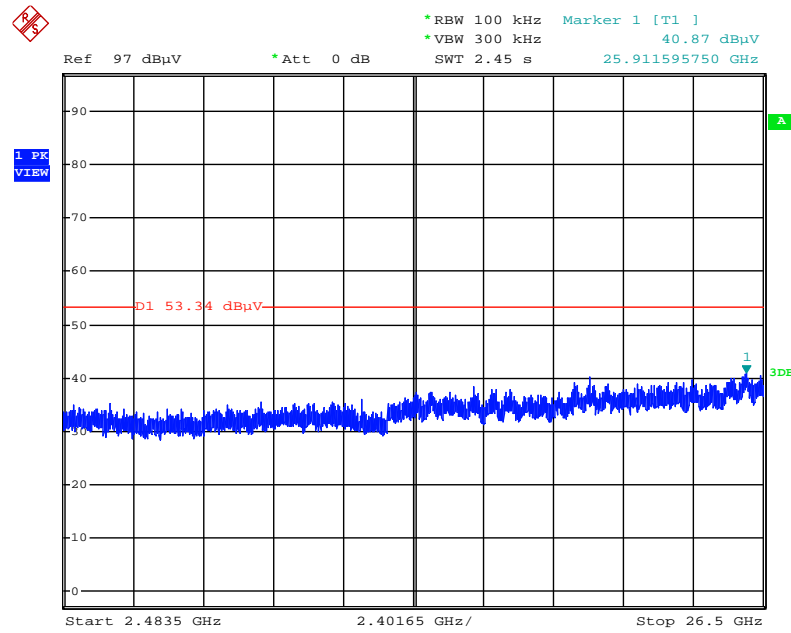
Date: 14.SEP.2016 00:44:39

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 30MHz~2400MHz (down 30dBc)



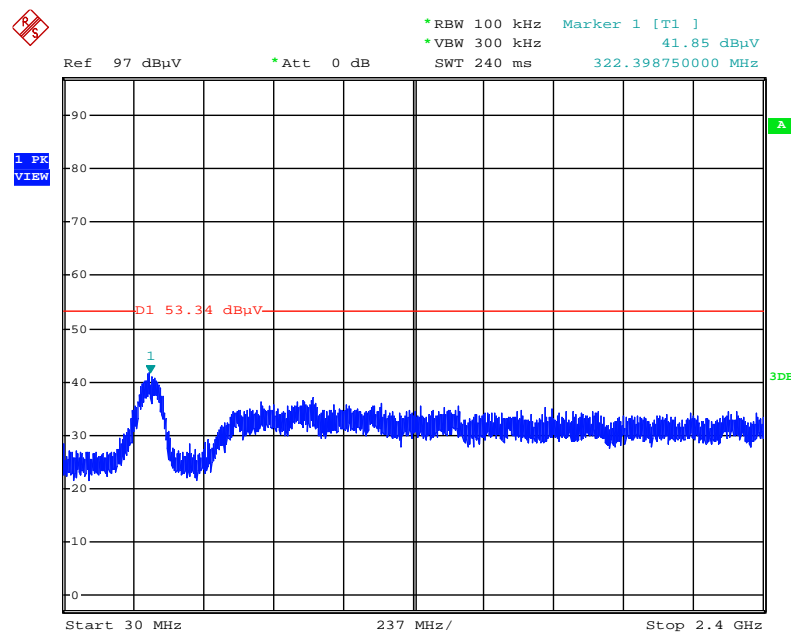
Date: 14.SEP.2016 01:52:38

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 1 / 2483.5MHz~26500MHz (down 30dBc)



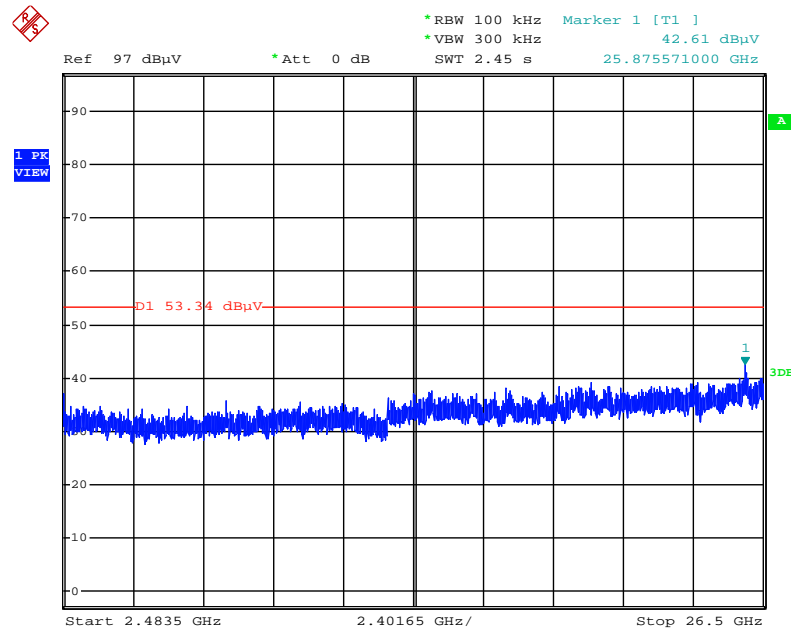
Date: 14.SEP.2016 01:53:23

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 30MHz~2400MHz (down 30dBc)



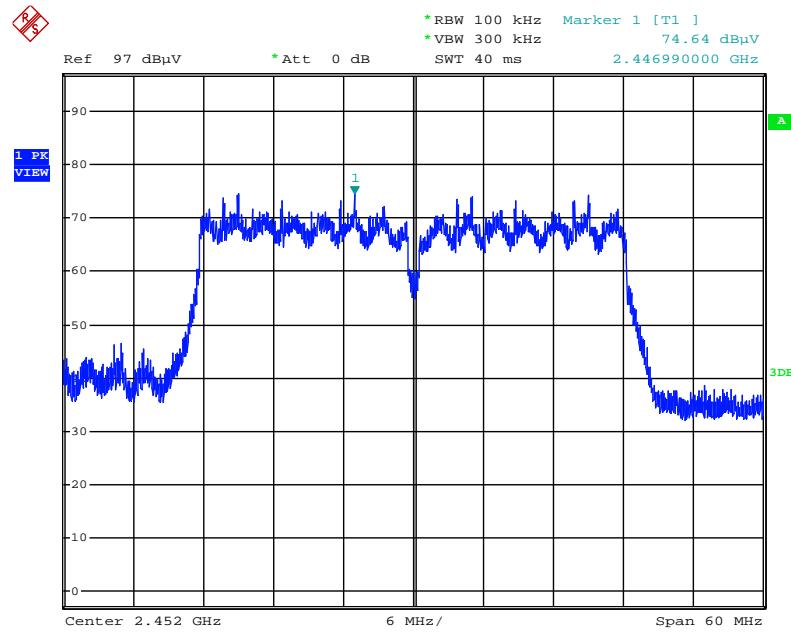
Date: 14.SEP.2016 01:54:03

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT20 / CH 11 / 2483.5MHz~26500MHz (down 30dBc)



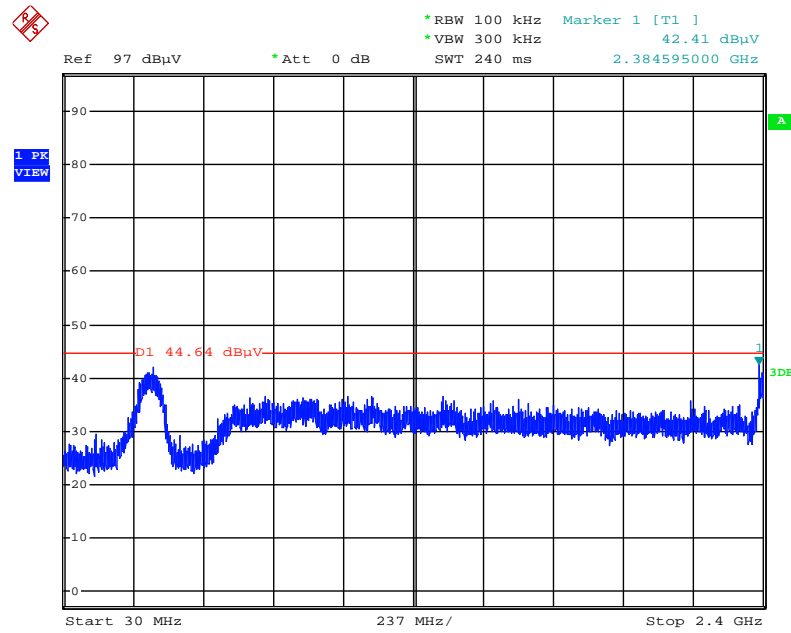
Date: 14.SEP.2016 01:54:29

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / Reference Level



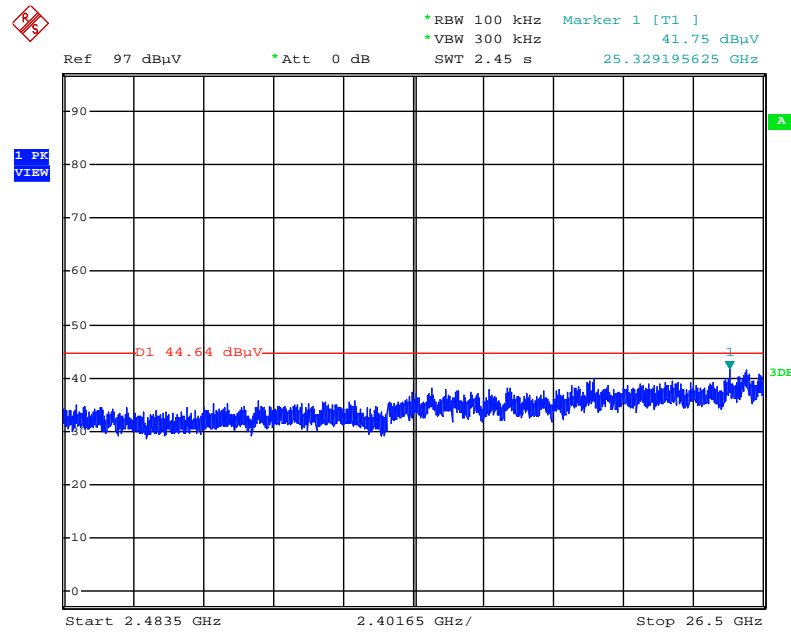
Date: 14.SEP.2016 01:56:58

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 30MHz~2400MHz (down 30dBc)



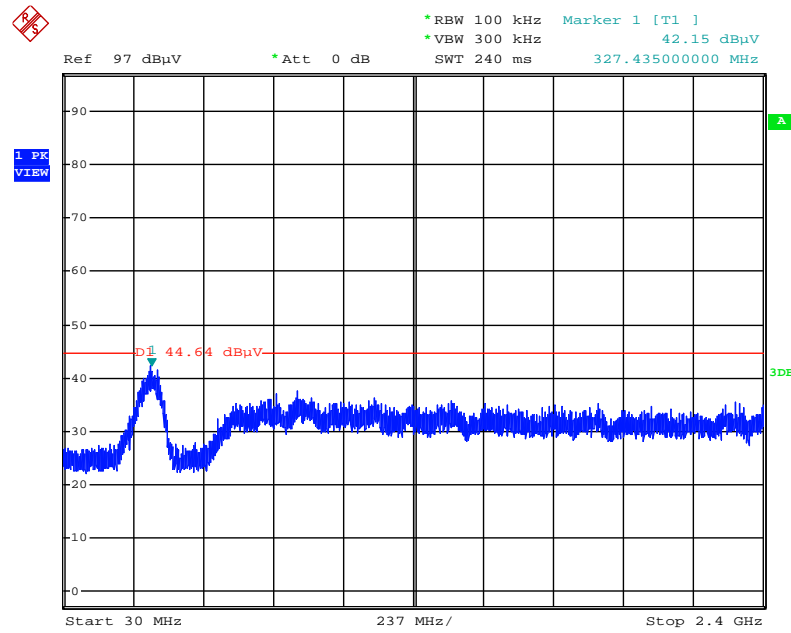
Date: 14.SEP.2016 02:00:09

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 3 / 2483.5MHz~26500MHz (down 30dBc)



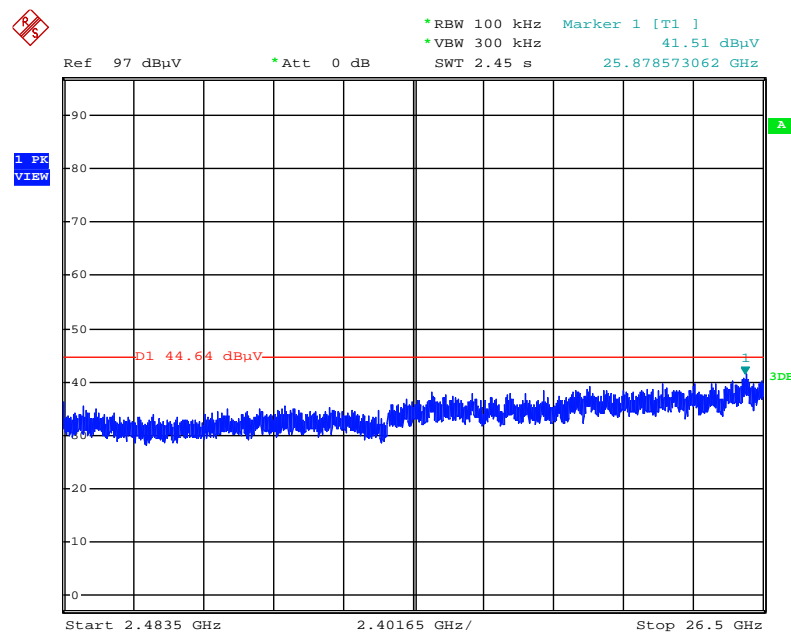
Date: 14.SEP.2016 02:01:39

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 30MHz~2400MHz (down 30dBc)

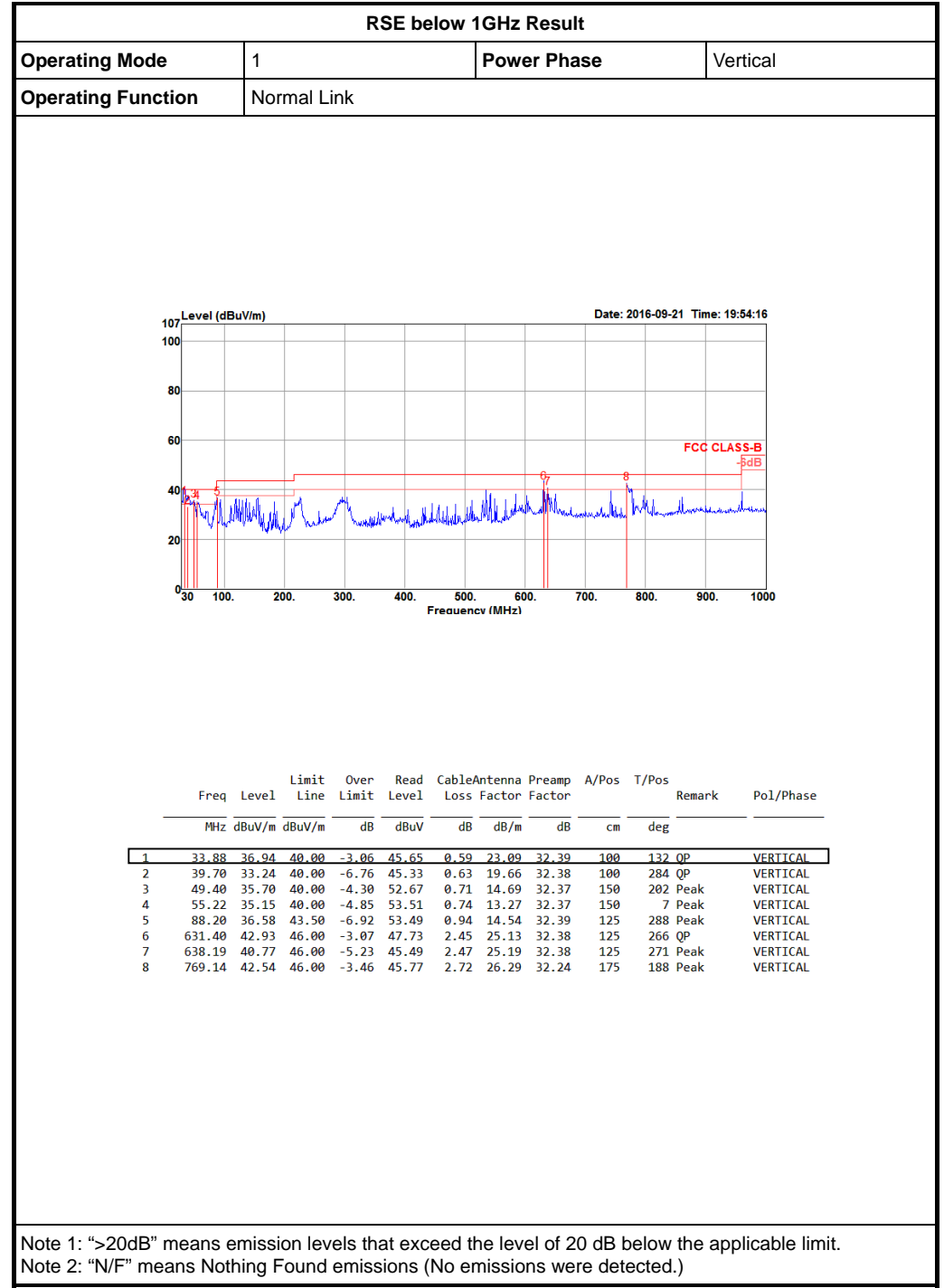
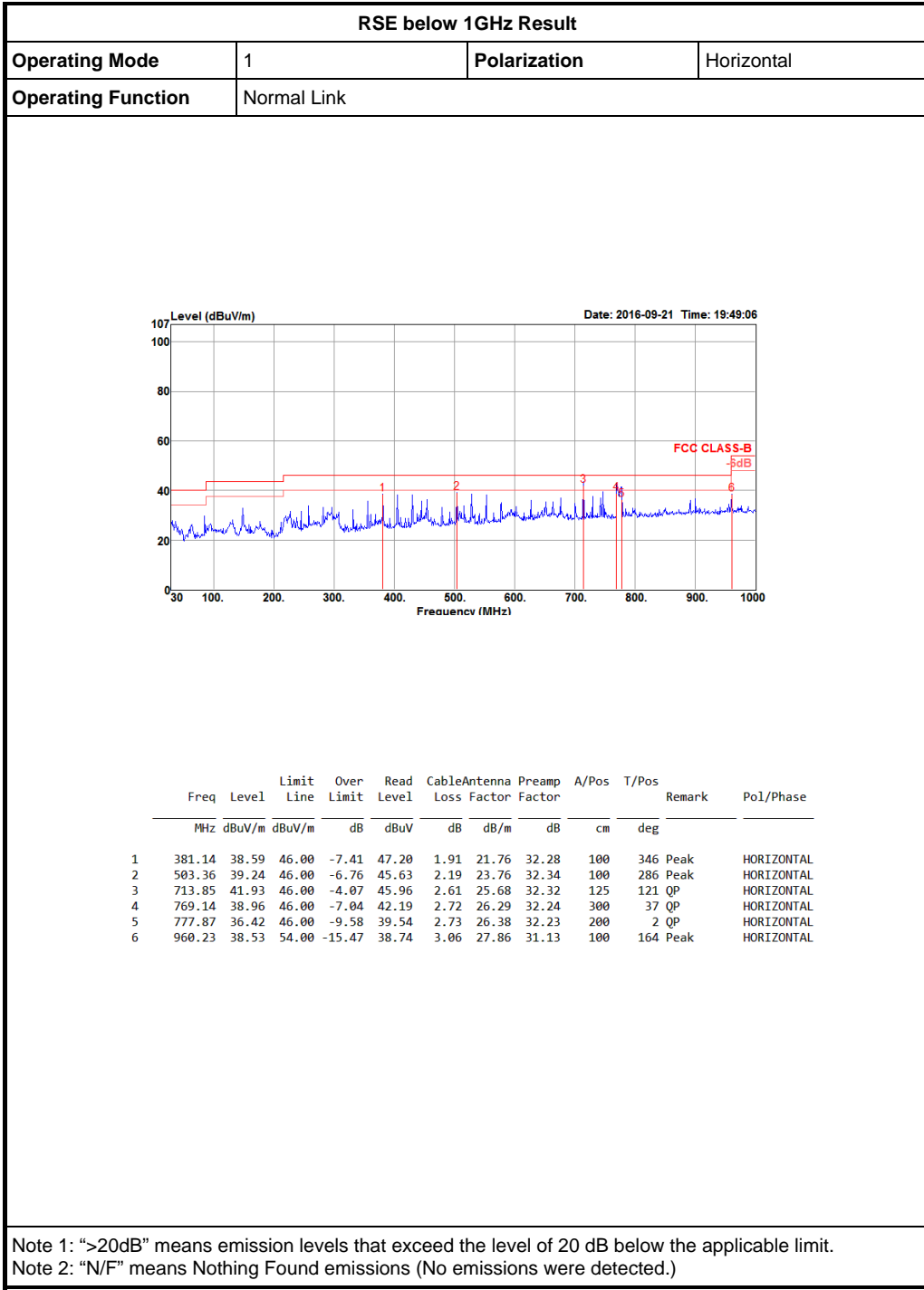


Date: 14.SEP.2016 02:02:45

Plot on Configuration IEEE 802.11ac MCS0/Nss1 VHT40 / CH 9 / 2483.5MHz~26500MHz (down 30dBc)



Date: 14.SEP.2016 01:59:20





Radiated Emissions (1GHz~10th Harmonic)

Configurations	IEEE 802.11b CH 1 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.94	51.97	74.00	-22.03	48.73	4.94	32.82	34.52	113	147	Peak	HORIZONTAL
2	4823.95	48.01	54.00	-5.99	44.77	4.94	32.82	34.52	113	147	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.93	50.12	74.00	-23.88	46.88	4.94	32.82	34.52	320	262	Peak	VERTICAL
2	4823.98	45.57	54.00	-8.43	42.33	4.94	32.82	34.52	320	262	Average	VERTICAL

Configurations	IEEE 802.11b CH 6 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.97	53.22	74.00	-20.78	49.88	4.94	32.91	34.51	104	330	Peak	HORIZONTAL
2	4873.98	50.15	54.00	-3.85	46.81	4.94	32.91	34.51	104	330	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.89	49.33	74.00	-24.67	45.99	4.94	32.91	34.51	100	64	Peak	VERTICAL
2	4874.00	44.33	54.00	-9.67	40.99	4.94	32.91	34.51	100	64	Average	VERTICAL

Configurations	IEEE 802.11b CH 11 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.95	49.77	54.00	-4.23	46.33	4.94	32.99	34.49	109	329	Average	HORIZONTAL
2	4923.97	52.87	74.00	-21.13	49.43	4.94	32.99	34.49	109	329	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.98	42.44	54.00	-11.56	39.00	4.94	32.99	34.49	100	64	Average	VERTICAL
2	4923.98	48.34	74.00	-25.66	44.90	4.94	32.99	34.49	100	64	Peak	VERTICAL



Configurations	IEEE 802.11g CH 1 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4821.68	47.25	74.00	-26.75	44.01	4.94	32.82	34.52	123	323	Peak	HORIZONTAL
2	4826.95	34.33	54.00	-19.67	31.07	4.94	32.84	34.52	123	323	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4821.48	44.45	74.00	-29.55	41.21	4.94	32.82	34.52	115	312	Peak	VERTICAL
2	4823.57	32.25	54.00	-21.75	29.01	4.94	32.82	34.52	115	312	Average	VERTICAL

Configurations	IEEE 802.11g CH 6 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4872.24	49.47	74.00	-24.53	46.13	4.94	32.91	34.51	100	43	Peak	HORIZONTAL
2	4872.69	36.50	54.00	-17.50	33.16	4.94	32.91	34.51	100	43	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.17	33.10	54.00	-20.90	29.76	4.94	32.91	34.51	102	65	Average	VERTICAL
2	4873.78	45.37	74.00	-28.63	42.03	4.94	32.91	34.51	102	65	Peak	VERTICAL

Configurations	IEEE 802.11g CH 11 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4924.93	49.03	74.00	-24.97	45.59	4.94	32.99	34.49	107	333	Peak	HORIZONTAL
2	4926.37	36.51	54.00	-17.49	33.07	4.94	32.99	34.49	107	333	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4923.65	45.44	74.00	-28.56	42.00	4.94	32.99	34.49	101	62	Peak	VERTICAL
2	4924.16	32.55	54.00	-21.45	29.11	4.94	32.99	34.49	101	62	Average	VERTICAL



Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.20	46.60	74.00	-27.40	43.36	4.94	32.82	34.52	133	326	Peak	HORIZONTAL
2	4825.67	33.37	54.00	-20.63	30.11	4.94	32.84	34.52	133	326	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4823.49	31.87	54.00	-22.13	28.63	4.94	32.82	34.52	201	311	Average	VERTICAL
2	4825.15	45.42	74.00	-28.58	42.16	4.94	32.84	34.52	201	311	Peak	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 6 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4872.88	35.97	54.00	-18.03	32.63	4.94	32.91	34.51	113	324	Average	HORIZONTAL
2	4880.47	48.98	74.00	-25.02	45.63	4.94	32.91	34.50	113	324	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4867.72	45.54	74.00	-28.46	42.20	4.94	32.91	34.51	112	73	Peak	VERTICAL
2	4871.21	32.79	54.00	-21.21	29.45	4.94	32.91	34.51	112	73	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 11 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4922.69	48.99	74.00	-25.01	45.57	4.94	32.97	34.49	126	337	Peak	HORIZONTAL
2	4922.97	35.65	54.00	-18.35	32.23	4.94	32.97	34.49	126	337	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4916.21	44.87	74.00	-29.13	41.45	4.94	32.97	34.49	129	70	Peak	VERTICAL
2	4924.16	32.27	54.00	-21.73	28.83	4.94	32.99	34.49	129	70	Average	VERTICAL



Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4844.26	43.58	74.00	-30.42	40.30	4.94	32.86	34.52	129	266	Peak	HORIZONTAL
2	4844.71	31.60	54.00	-22.40	28.32	4.94	32.86	34.52	129	266	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4843.90	44.10	74.00	-29.90	40.82	4.94	32.86	34.52	167	142	Peak	VERTICAL
2	4844.27	31.29	54.00	-22.71	28.01	4.94	32.86	34.52	167	142	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 6 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4873.20	45.95	74.00	-28.05	42.61	4.94	32.91	34.51	119	331	Peak	HORIZONTAL
2	4874.95	32.52	54.00	-21.48	29.18	4.94	32.91	34.51	119	331	Average	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4874.33	44.10	74.00	-29.90	40.76	4.94	32.91	34.51	150	267	Peak	VERTICAL
2	4875.00	31.24	54.00	-22.76	27.90	4.94	32.91	34.51	150	267	Average	VERTICAL

Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 9 / Ant. 1 + Ant. 2
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Horizontal

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.24	33.09	54.00	-20.91	29.70	4.94	32.95	34.50	122	333	Average	HORIZONTAL
2	4904.96	46.34	74.00	-27.66	42.95	4.94	32.95	34.50	122	333	Peak	HORIZONTAL

Vertical

	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	4903.17	46.36	74.00	-27.64	42.97	4.94	32.95	34.50	147	291	Peak	VERTICAL
2	4904.62	32.89	54.00	-21.11	29.50	4.94	32.95	34.50	147	291	Average	VERTICAL

Note:

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

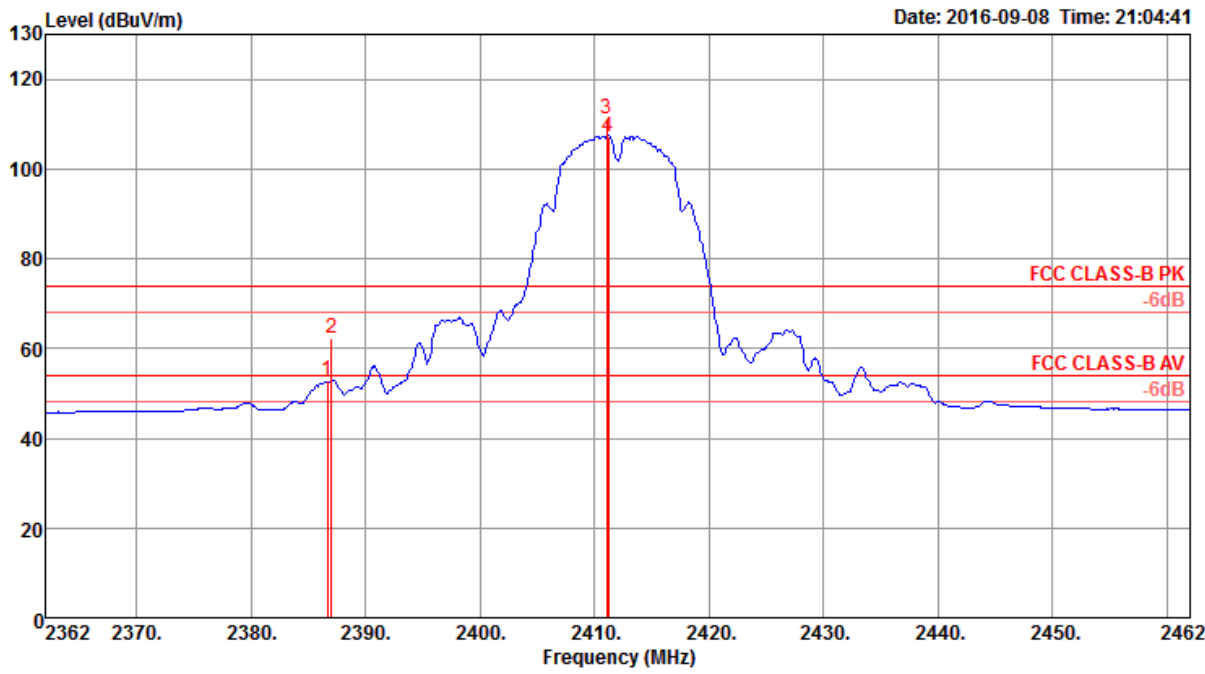
Emission level (dBuV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

Band Edge Emissions

Configurations	IEEE 802.11b CH 1, 6, 11 / Ant. 1 + Ant. 2
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Channel 1

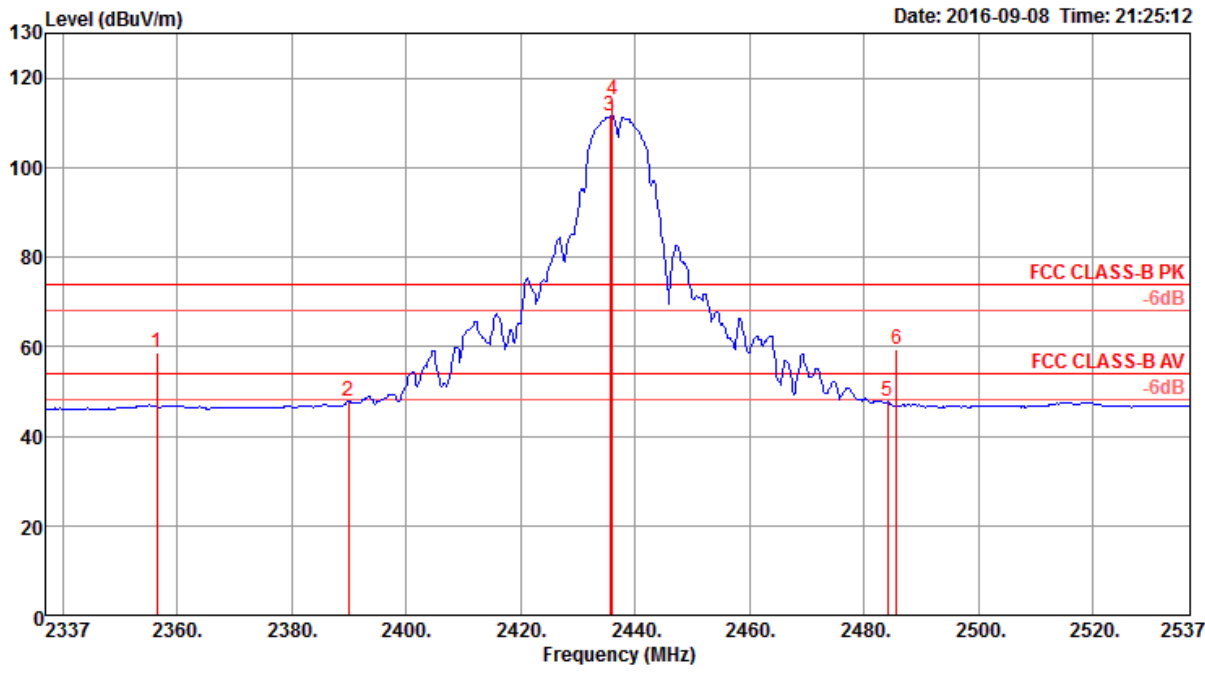


	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2386.68	52.69	54.00	-1.31	21.81	2.86	28.02	0.00	129	156	Average	HORIZONTAL
2	2387.00	62.16	74.00	-11.84	31.28	2.86	28.02	0.00	129	156	Peak	HORIZONTAL
3 @	2411.04	111.19			80.31	2.88	28.00	0.00	129	156	Peak	HORIZONTAL
4 @	2411.20	107.20			76.33	2.88	27.99	0.00	129	156	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.



Channel 6

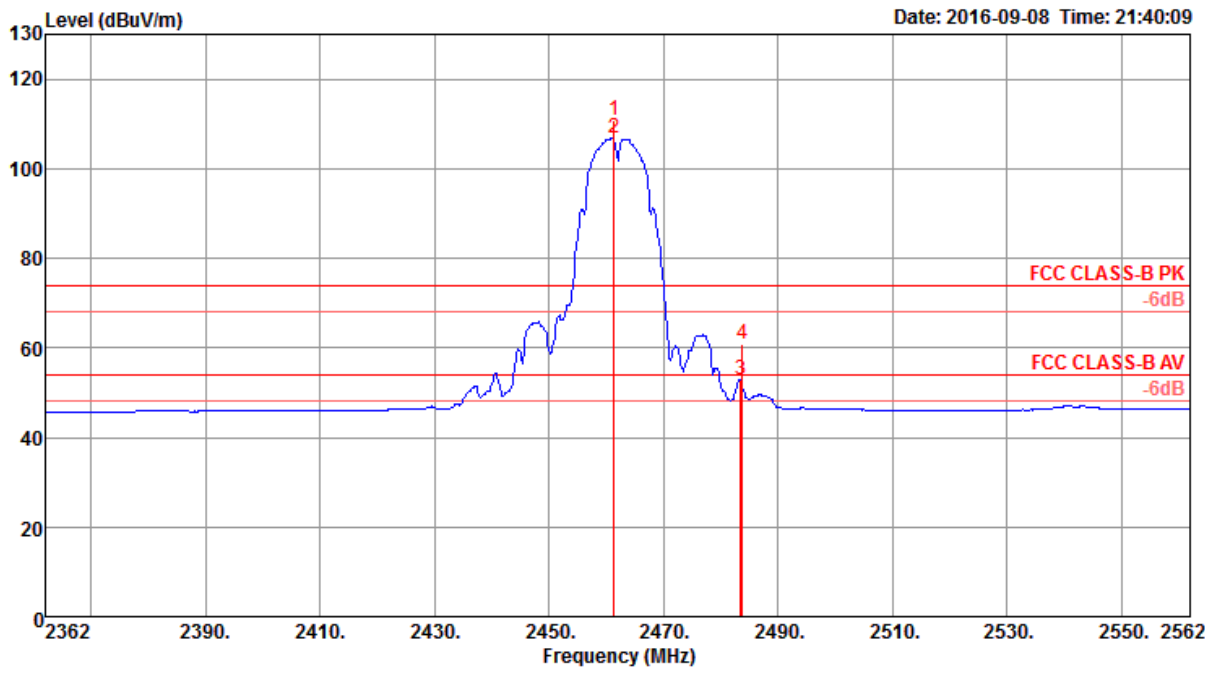


Item	Freq MHz	Level dBuV/m	Limit Line dBuV/m	Over Limit dB	Read Level dBuV	Cable Loss dB	Antenna Factor dB/m	Preamp Factor dB	A/Pos cm	T/Pos deg	Remark	Pol/Phase
1	2356.55	58.77	74.00	-15.23	27.87	2.84	28.06	0.00	100	158	Peak	HORIZONTAL
2	2390.00	47.69	54.00	-6.31	16.81	2.86	28.02	0.00	100	158	Average	HORIZONTAL
3 @	2435.72	111.39			80.53	2.89	27.97	0.00	100	158	Average	HORIZONTAL
4 @	2436.04	115.04			84.18	2.89	27.97	0.00	100	158	Peak	HORIZONTAL
5	2484.12	47.71	54.00	-6.29	16.86	2.93	27.92	0.00	100	158	Average	HORIZONTAL
6	2485.74	59.32	74.00	-14.68	28.47	2.93	27.92	0.00	100	158	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.



Channel 11



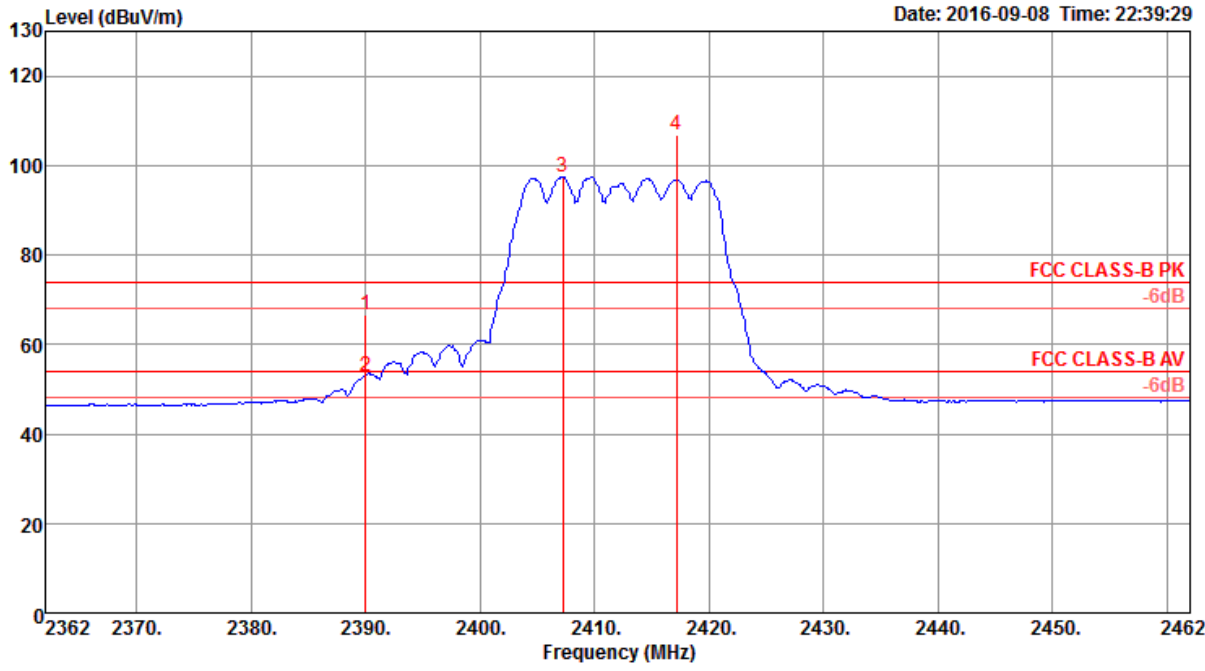
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1 @	2461.36	110.64			79.79	2.91	27.94	0.00	118	42	Peak	HORIZONTAL
2 @	2461.36	106.83			75.98	2.91	27.94	0.00	118	42	Average	HORIZONTAL
3	2483.50	52.82	54.00	-1.18	21.97	2.93	27.92	0.00	118	42	Average	HORIZONTAL
4	2483.80	60.89	74.00	-13.11	30.04	2.93	27.92	0.00	118	42	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.



Configurations	IEEE 802.11g CH 1, 6, 11 / Ant. 1 + Ant. 2
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Channel 1

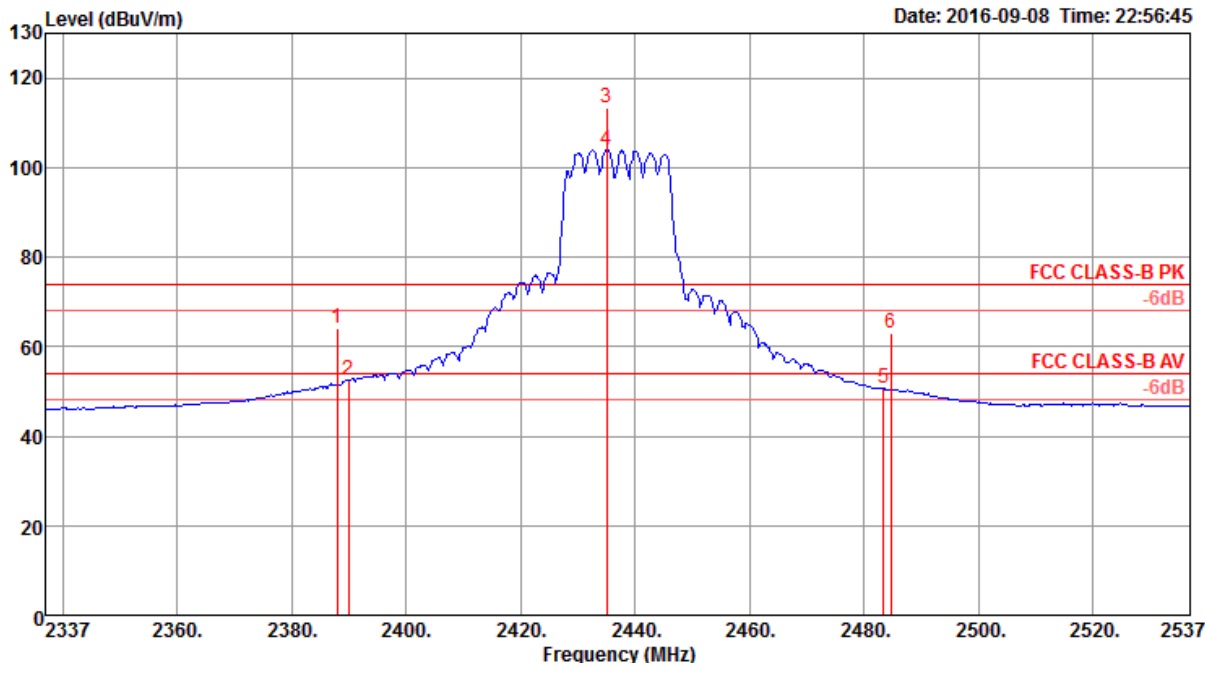


	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2390.00	66.81	74.00	-7.19	35.93	2.86	28.02	0.00	128	153	Peak	HORIZONTAL
2	2390.00	52.76	54.00	-1.24	21.88	2.86	28.02	0.00	128	153	Average	HORIZONTAL
3 @	2407.19	97.42			66.55	2.87	28.00	0.00	128	153	Average	HORIZONTAL
4 @	2417.13	106.97			76.10	2.88	27.99	0.00	128	153	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.



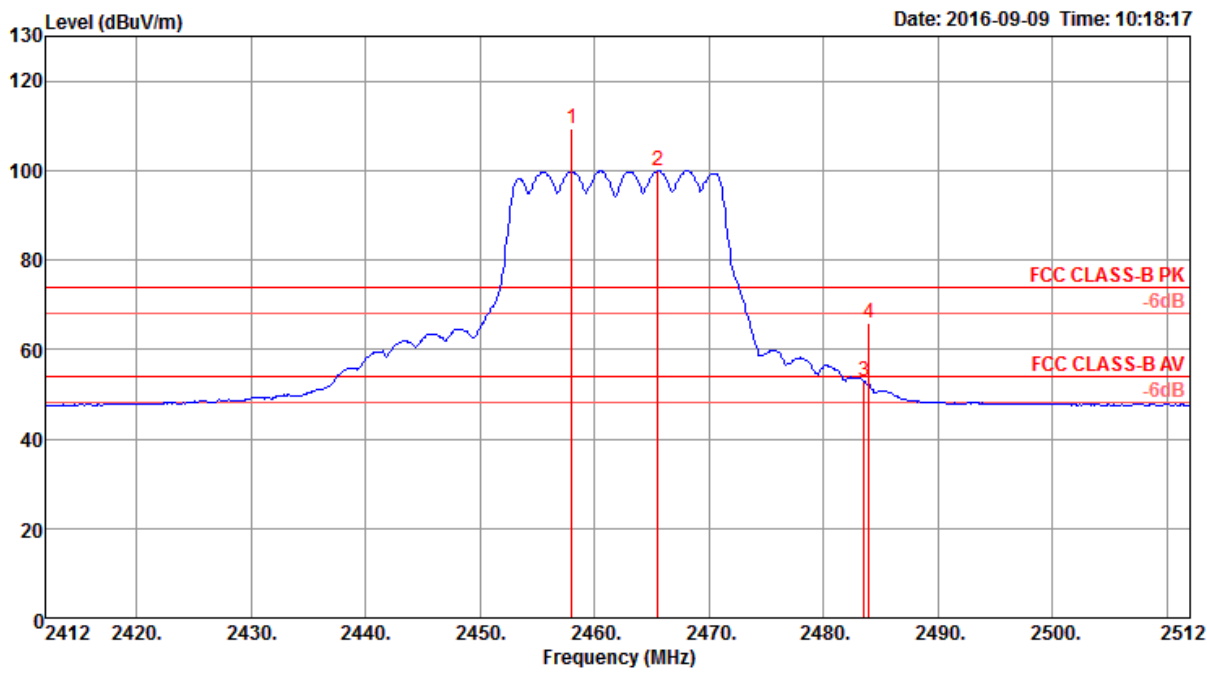
Channel 6



	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2387.96	64.09	74.00	-9.91	33.21	2.86	28.02	0.00	138	20	Peak	HORIZONTAL
2	2390.00	52.50	54.00	-1.50	21.62	2.86	28.02	0.00	138	20	Average	HORIZONTAL
3 @	2435.08	113.40			82.54	2.89	27.97	0.00	138	20	Peak	HORIZONTAL
4 @	2435.08	104.08			73.22	2.89	27.97	0.00	138	20	Average	HORIZONTAL
5	2483.50	50.62	54.00	-3.38	19.77	2.93	27.92	0.00	138	20	Average	HORIZONTAL
6	2484.76	62.97	74.00	-11.03	32.12	2.93	27.92	0.00	138	20	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11



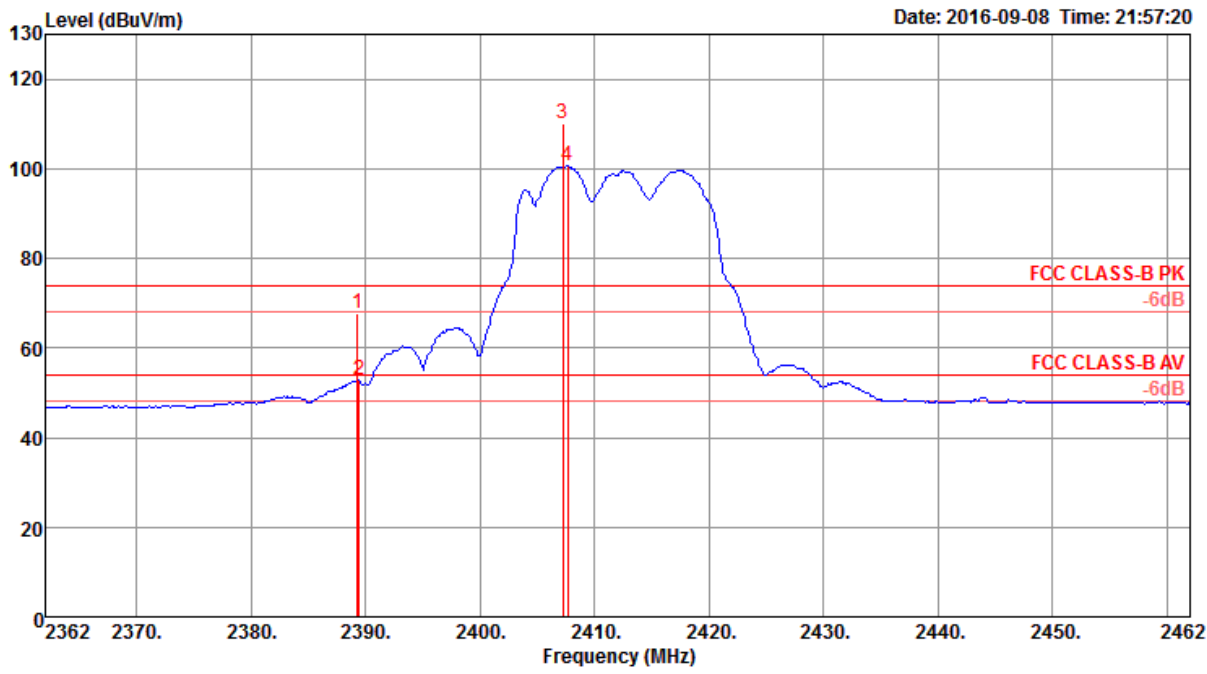
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1 @	2457.99	109.27			78.41	2.91	27.95	0.00	159	7	Peak	HORIZONTAL
2 @	2465.53	99.88			69.03	2.91	27.94	0.00	159	7	Average	HORIZONTAL
3	2483.50	52.74	54.00	-1.26	21.89	2.93	27.92	0.00	159	7	Average	HORIZONTAL
4	2483.96	65.90	74.00	-8.10	35.05	2.93	27.92	0.00	159	7	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.



Configurations	IEEE 802.11ac MCS0/Nss1 VHT20 CH 1, 6, 11 / Ant. 1 + Ant. 2
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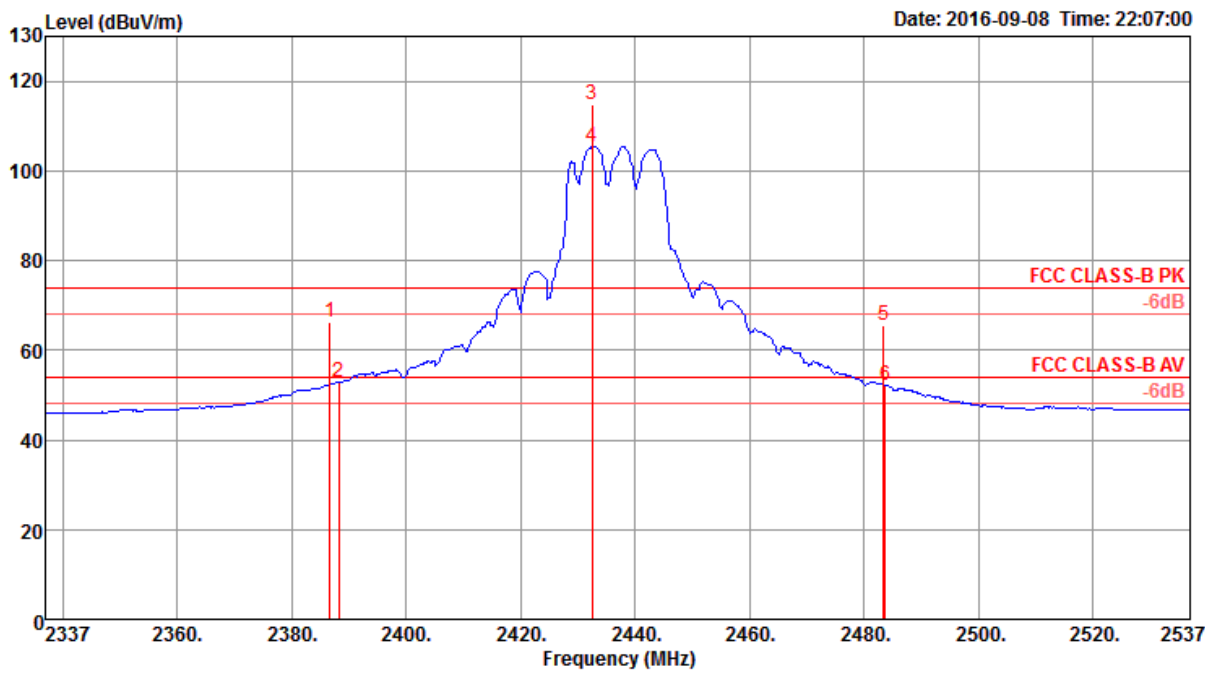
Channel 1



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2389.24	67.63	74.00	-6.37	36.75	2.86	28.02	0.00	144	153	Peak	HORIZONTAL
2	2389.40	52.90	54.00	-1.10	22.02	2.86	28.02	0.00	144	153	Average	HORIZONTAL
3 @	2407.19	110.10			79.23	2.87	28.00	0.00	144	153	Peak	HORIZONTAL
4 @	2407.67	100.54			69.66	2.88	28.00	0.00	144	153	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2412 MHz.

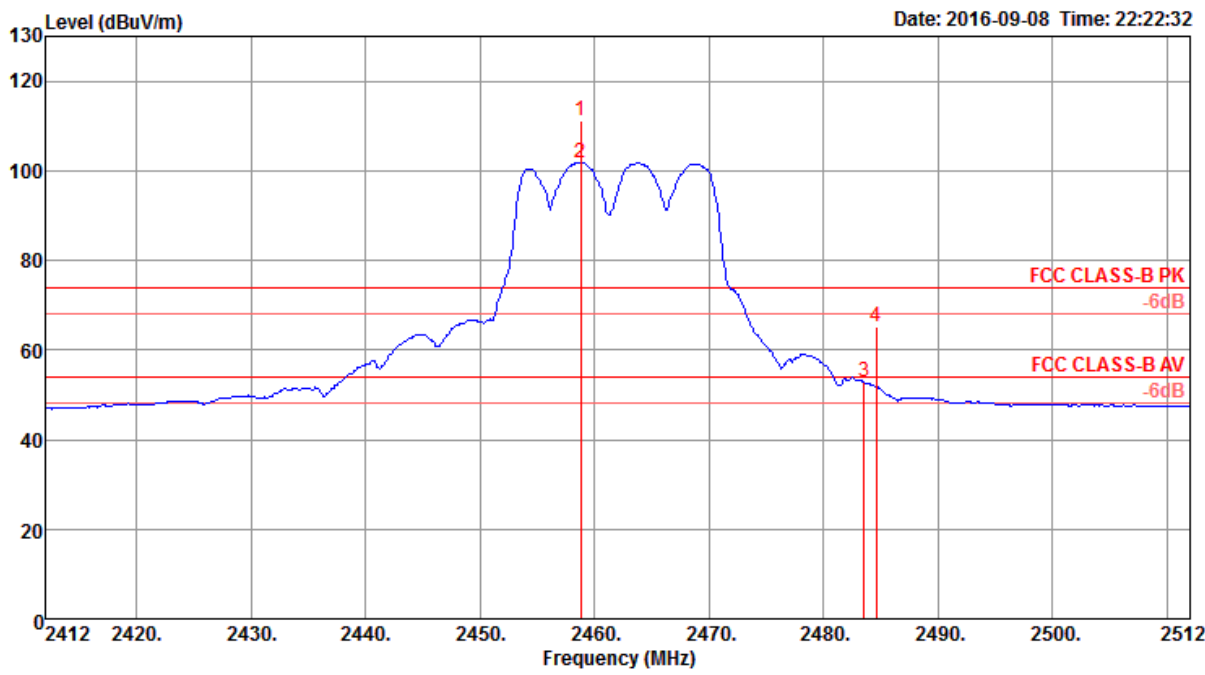
Channel 6



	Freq	Level	Limit Line	Over Limit	Read Level	CableAntenna Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2386.68	66.14	74.00	-7.86	35.26	2.86	28.02	0.00	140	33	Peak	HORIZONTAL
2	2388.28	52.87	54.00	-1.13	21.99	2.86	28.02	0.00	140	33	Average	HORIZONTAL
3 @	2432.51	114.73			83.87	2.89	27.97	0.00	140	33	Peak	HORIZONTAL
4 @	2432.51	105.46			74.60	2.89	27.97	0.00	140	33	Average	HORIZONTAL
5	2483.50	65.37	74.00	-8.63	34.52	2.93	27.92	0.00	140	33	Peak	HORIZONTAL
6	2483.80	52.24	54.00	-1.76	21.39	2.93	27.92	0.00	140	33	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.

Channel 11



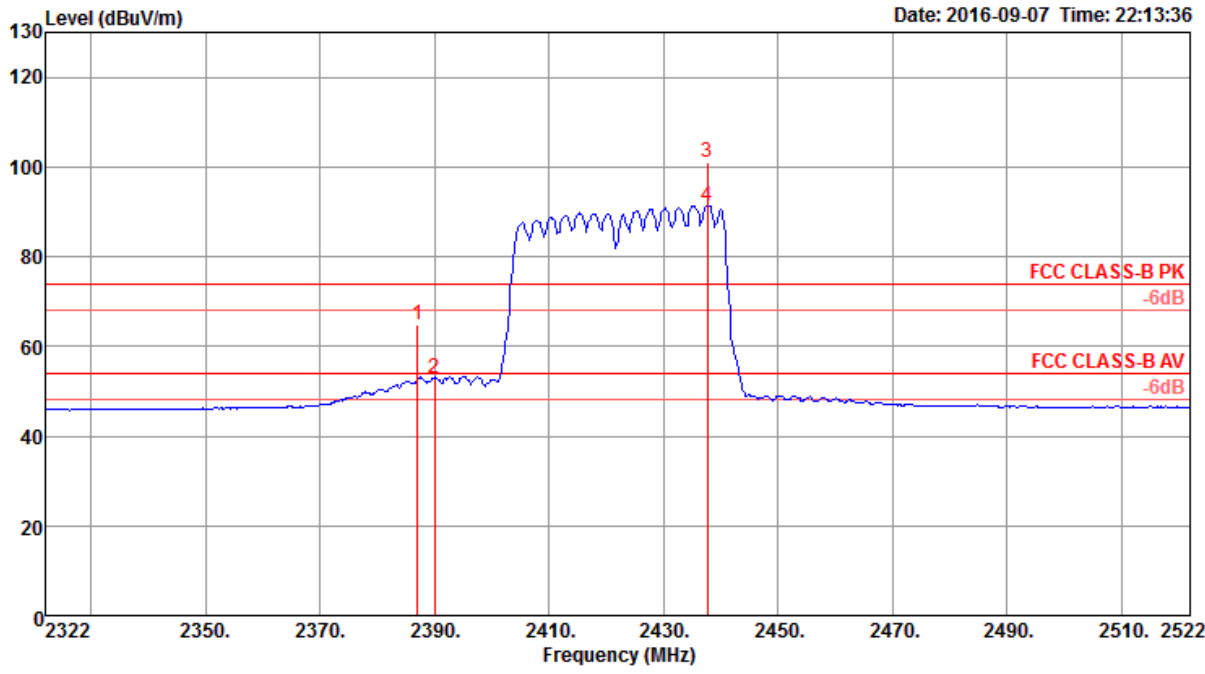
	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1 @	2458.80	111.33			80.47	2.91	27.95	0.00	135	13	Peak	HORIZONTAL
2 @	2458.80	101.91			71.05	2.91	27.95	0.00	135	13	Average	HORIZONTAL
3	2483.50	52.82	54.00	-1.18	21.97	2.93	27.92	0.00	135	13	Average	HORIZONTAL
4	2484.60	65.09	74.00	-8.91	34.24	2.93	27.92	0.00	135	13	Peak	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2462 MHz.



Configurations	IEEE 802.11ac MCS0/Nss1 VHT40 CH 3, 6, 9 / Ant. 1 + Ant. 2
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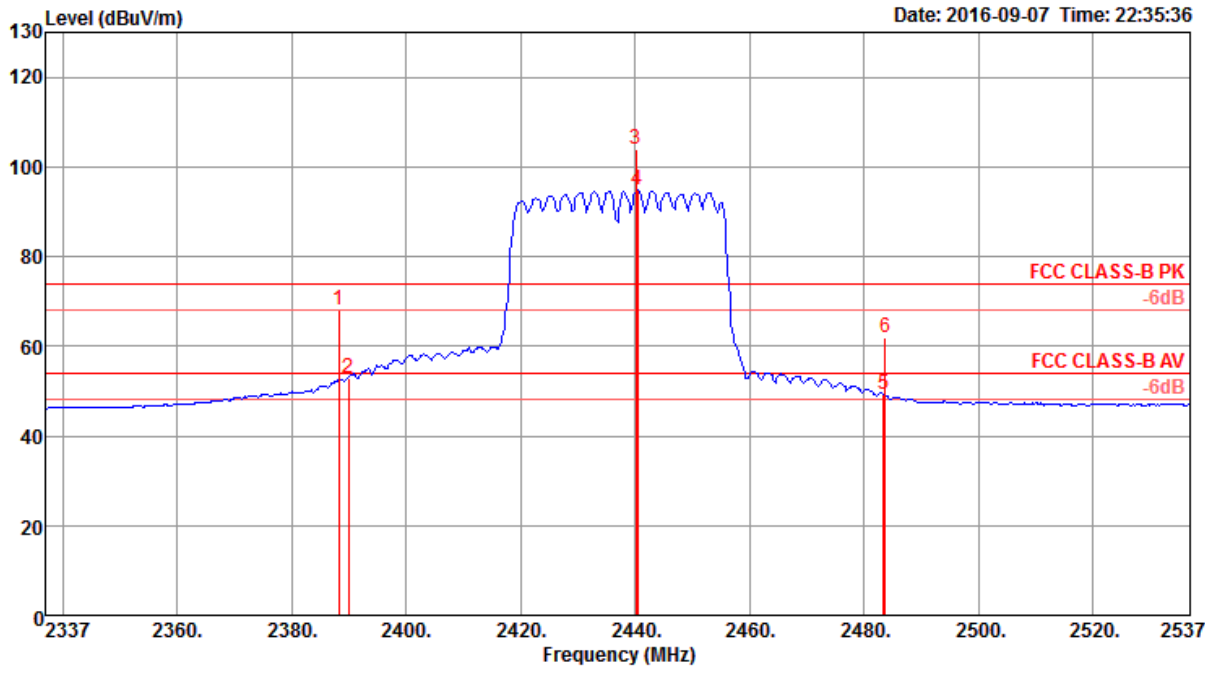
Channel 3



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2387.06	64.66	74.00	-9.34	33.78	2.86	28.02	0.00	140	12	Peak	HORIZONTAL
2	2390.00	52.73	54.00	-1.27	21.85	2.86	28.02	0.00	140	12	Average	HORIZONTAL
3 @	2437.71	100.95			70.08	2.90	27.97	0.00	140	12	Peak	HORIZONTAL
4 @	2437.71	91.17			60.30	2.90	27.97	0.00	140	12	Average	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2422 MHz.

Channel 6

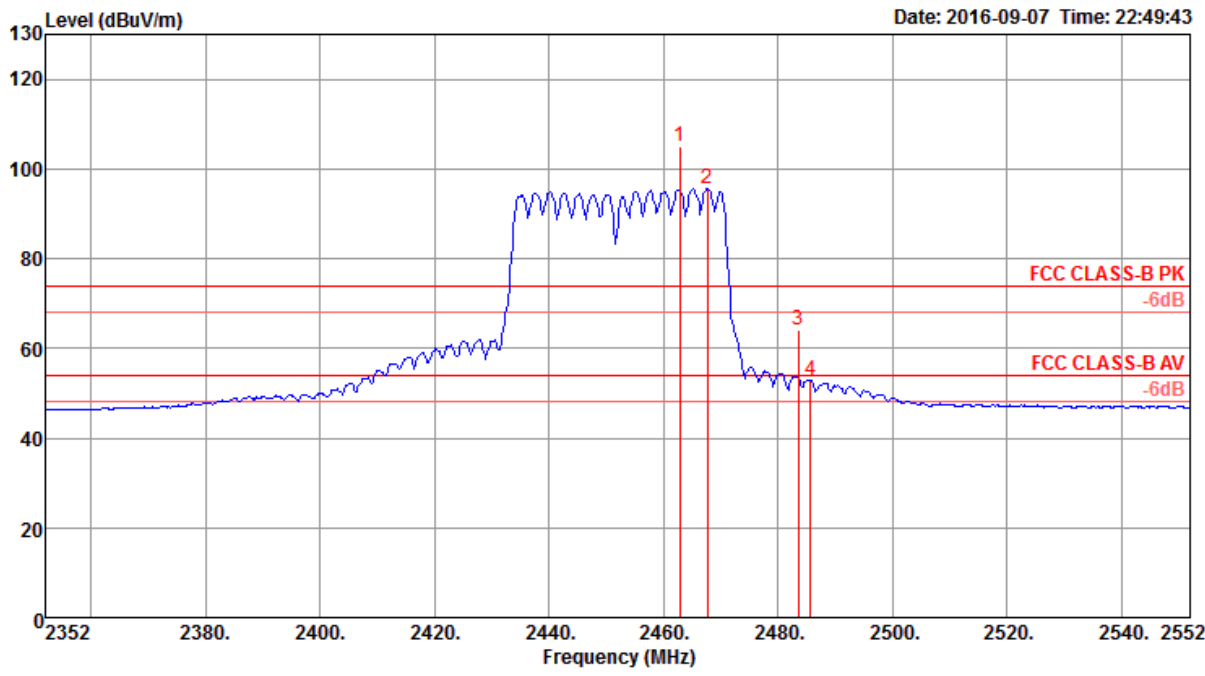


Item	Freq	Level	Limit Line	Over Limit	Read Level	Cable Loss	Antenna Factor	Preamp Factor	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1	2388.28	67.97	74.00	-6.03	37.09	2.86	28.02	0.00	100	0	Peak	HORIZONTAL
2	2390.00	52.85	54.00	-1.15	21.97	2.86	28.02	0.00	100	0	Average	HORIZONTAL
3 @	2440.21	103.81			72.95	2.90	27.96	0.00	100	0	Peak	HORIZONTAL
4 @	2440.53	94.94			64.08	2.90	27.96	0.00	100	0	Average	HORIZONTAL
5	2483.50	49.27	54.00	-4.73	18.42	2.93	27.92	0.00	100	0	Average	HORIZONTAL
6	2483.80	61.90	74.00	-12.10	31.05	2.93	27.92	0.00	100	0	Peak	HORIZONTAL

Item 3, 4 are the fundamental frequency at 2437 MHz.



Channel 9



	Freq	Level	Limit	Over	Read	Cable	Antenna	Preamp	A/Pos	T/Pos	Remark	Pol/Phase
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB	dB/m	dB	cm	deg		
1 @	2462.90	105.13			74.28	2.91	27.94	0.00	122	26	Peak	HORIZONTAL
2 @	2467.71	95.44			64.59	2.92	27.93	0.00	122	26	Average	HORIZONTAL
3 @	2483.50	63.93	74.00	-10.07	33.08	2.93	27.92	0.00	122	26	Peak	HORIZONTAL
4 @	2485.65	52.82	54.00	-1.18	21.97	2.93	27.92	0.00	122	26	Average	HORIZONTAL

Item 1, 2 are the fundamental frequency at 2452 MHz.

Note:

Emission level (dBUV/m) = 20 log Emission level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.