

Produkte Products

Prüfbericht - Nr.:	19660221 001			Seite 1 von 184
Test Report No.:				Page 1 of 184
Auftraggeber:	Camera Vision Solut	tions, Inc.		
Client:	P.O Box 80249			
	Austin, TX 78708			
	United States			
Gegenstand der Prüfung: Test item:	On-board Video Veh	icle Recorde	r	
Bezeichnung: Identification:	SentinelHDx		erien-Nr.: erial No.	Engineering Sample
Wareneingangs-Nr.: Receipt No.:	1803117312		ngangsdatum te of receipt:	13.01.2016
Prüfort: Testing location:	Refer Page 4 of 184	for test facili	ties	
Prüfgrundlage:	FCC Part 15: Subpar	† C		
Test specification:	ANSI C63.10-2013			
Prüfergebnis: Test Result:	Der Prüfgegenstand The test items passed	entspricht ob the test spec	pen genannte cification(s).	r Prüfgrundlage(n).
Prüflaboratorium:	TÜV Rheinland (India	a) Pyt I td		
Testing Laboratory:	82/A, 3rd Main, West Wing Hosur Road, Bangalore – 5	, Electronic City P	Phase 1	
	FCC Registration No.:	176555		
geprüft / tested by:		kontrolliert /	reviewed by:	
27.04.2016 Saibaba Siddapur Sr.Engineer	Scilator.	16.05.2016	Raghavendra Sr.Manager	Kulkarni Hullarme
	Unterschrift Signature	Datum Date	Name/Stellung Name/Position	Uniterschillt
- MARCON AND H	FCC ID: 2AFS2-SHDX	Date	IVAIIIE/PUSIIIUN	Signature
F(ail) = entspr	icht Prüfgrundlage icht nicht Prüfgrundlage nwendbar	Abbreviation	ons: P(ass) F(ail) N/A	= passed = failed = not applicable

TÜV Rheinland India Pvt. Ltd. 82/A, 3rd Main, West Wing Electronic City Phase 1, Hosur Road, Bangalore-560100, India Tel.: +9180 6723 3500 · Fax: +9180 6723 3542 · Web: www.tuv.com

This test report relates to the a.m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.



Test Result Summary

Clause	Test Item	Result
FCC 15.247(b) (3)	Maximum conducted (average) output power	Pass
FCC 15.247(a) (2)	DTS Bandwidth	Pass
FCC 15.247(e)	Maximum Power Spectral Density	Pass
FCC 15.247(d)	Emissions in non-restricted frequency bands	Pass
FCC 15.209 / FCC 15.205	Spurious Radiated Emissions and Restricted Bands of Operation	Pass
FCC 15.207	Conducted Emissions on a.c Power Lines	N/A*

Note: Conducted measurements are done according to the procedure given in KDB No558074 D01 DTS Meas Guidance v03r05 & 662911 D01 Multiple Transmitter Output v02r01.

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^{* - &}gt; Device exclusively used in vehicle only, It will operates on vehicle battery & internal back up battery only.



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List of Test and Measurement Instruments

Equipment	Manufacturer	Model Name	Serial Number	Calibration Due Date	Periodicity	Used for Test Items
EMI Test Receiver	Rohde & Schwarz	ESU 40	100288	023.11.2016	Yearly	
Broadband Antenna	Frankonia	ALX-4000	ALX-4000- 806	08.04.2016	Yearly	
Active Loop Antenna	Frankonia	LAX-10	LAX-10-800	22.12.2016	Yearly	Spurious Radiated
Broadband Horn Antenna	Frankonia	HAX-18	HAX18-802	14.03.2017	Yearly	Emissions
Emission Horn Antenna	ETS Lindgren	116706	00107323	02.11.2016	Yearly	
Anechoic Chamber	Frankonia	-	-	-	-	
Spectrum Analyser	Agilent Technologies	E4407B	US41192772	23.04.2017	Yearly	Antenna - Port
Signal Analyzer	Rohde & Schwarz	FSV7	101644	07.12.1016	Yearly	Conducted Tests

Testing Facilities:

 TUV Rheinland (India) Private Limited 108, Beside ISBR Business School, Electronic city Phase I Bangalore - 560 100.

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General Product Information

Product Function and Intended Use

Sentinel HDx unit is a Dual Camera Event Recorder and will be installed on the windshield of the vehicle. This product is going to be installed inside the vehicles like cars, truck, taxi etc.

Ratings and System Details

Frequency Range	2400MHz – 2480MHz		
No. of channel	Refer page 5 of 164		
Channel Spacing	5MHz – Wi-Fi 2MHz – BT LE		
	802.11b	14.82 dBm / 30.338mW	
	802.11g	12.74 dBm / 18.793mW	
Transmitted Power	802.11nHT20	12.81 dBm / 19.098mW	
	802.11nHT40	13.33 dBm / 21.527mW	
	Bluetooth LE	-2.49 dBm / 0.563mW	
Data Rate	802.11b: 1,2, 5.5,11 Mbps 802.11g: 6, 9, 12, 18, 24, 36,48, 54 Mbps 802.11a: 6, 9, 12, 18, 24, 36, 48, 54 Mbps 802.11nHT20,HT40: MCS0 – MCS7 – MCS15 -> refer page 5 of 184 BT LE – 1 Mbps		
Modulation	802.11b: DSSS with CCK 802.11g: OFDM with BPSK, QPSK, 16-QAM, 64-QAM 802.11n: OFDM with BPSK, QPSK, 16-QAM, 64-QAM		
Number of antenna	Refer Table 1		
Antenna Gain and Antenna type	Refer Table 1		
Supply Voltage	9-17VDC from vehicle Battery & Internal Back-up Battery Voltage: 3.0V to 4.2V DC		
Environmental Condition	Operational: -10°C to +5°C Storage: -20°C to +60°C		

802.11n Mode data rate

802.11nHT20: 6.5, 13, 19.5, 26, 39, 52, 58.5,65, 13, 26, 39, 52, 78, 104,117 & 130 Mbps 802.11nHT40: 13.5, 27, 40.5, 54, 81, 108, 121.5, 135, 27, 54, 81, 108, 162, 216, 243, 270 Mbps

Test Conditions:

Supply Voltage: 12VDC form vehicle Battery & Internal Battery 3.0 -4.2VDC

Environmental conditions:

Temperature: +25 ° C RH: 62%

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Test Set-up and Operation Mode

Principle of Configuration Selection

Transmission was enabled with continuous transmission on low, mid and high channel.

Test Operation and Test Software

Test software (Labtool) was used to enable the continuous transmission, changing channels (low/mid/high) and data rates on the EUT for the tests in this report.

Special Accessories and Auxiliary Equipment

- None

Countermeasures to achieve EMC Compliance

- None

Test Modes - Data Rates and Modulations

For Radiated spurious emissions, the tests were performed for all data rates and only worst case results are reported in this report.

Antenna Port measurements are performed on the following paths

Path A – J7 Connector –ANT1 Path B – J8 Connector – ANT2

Bluetooth (EDR+BDR) & Bluetooth LE will transmit only on ANT2 & Wi-Fi (IEEE802.11abgnHT20/HT40) will transmit on both ANT1 & ANT2.

Product also has GPS functionality with operating frequency 1575.42MHz

Sample used for testing as identified with below number.

Sample Serial No.12 Sample Serial No.13

List of Antenna: Table 1

Manufacturer	Antenna Type	Antenna Part No.	Operating Frequency (GHz)
TAIYO YUDEN	Multilayer Monopole Antenna	AH 104N2450D1	2.4 & 5
Laird	External Two-Way Radio Antenna	WTS 2450	2.4 & 5

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List of Centre Frequencies: Table 2

Frequency Band	Channel No.	Channel Frequency
(MHz)	Channel No.	(MHz)
	1	2412
	2	2417
	3	2422
2400 2402 5	4	2427
2400 – 2483.5	5	2432
(20MHz Bandwidth)_	6	2437
Wi-Fi	7	2437
	8	2447
	9	2452
	10	2457
	11	2462
	3	2422
	4	2427
	5	2432
2400 – 2483.5	6	2437
(40MHz Bandwidth)_Wi-Fi	7	2437
	8	2447
	9	2452
	10	2457
	0	2402
	1	2404
	2	2406
	3	2408
	:	:
	:	:
2400 – 2483.5	18	2438
(2MHz Bandwidth)_BT LE	19	2440
	20	2437
	:	:
	:	•
	36	2474
	37	2476
	38	2478
	39	2480

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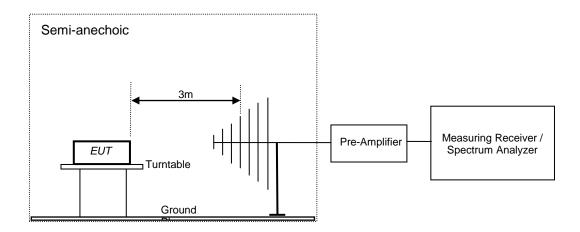


Test Methodology

Radiated Emission Test

The radiated emission measurement was performed according to the procedures in ANSI C63.10-2013. The equipment under test (EUT) was placed at the middle of the 80 cm high turntable for below 1GHz & 1.5m height for above 1GHz measurement, and the EUT is 3 meters far from the measuring antenna. The turntable was rotated 360° for obtaining the maximum emission. The height of the measuring antennas was scanned between 1m and 4m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations. Repeat the measurement steps until the maximum emissions were obtained. The measurement above 1000MHz was performed by horn antenna. The measurement below 30MHz was performed by loop antenna.

The EUT was rotated around the X-, Y-, and Z-Axis and the results from worst case axis are recorded.



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Test Results

Maximum Average Conducted Output Power Result

Section 15.247(b) (3) **Pass**

Test Specification FCC Part 15 Subpart C Measurement Bandwidth (RBW) **Detector Function**

1MHz Average

Requirement

≤1 watt (30dBm).

Test Method:



Note: For measurement of Maximum Average conducted output power method AVGSA-1 was used

Test Result: Wi-Fi

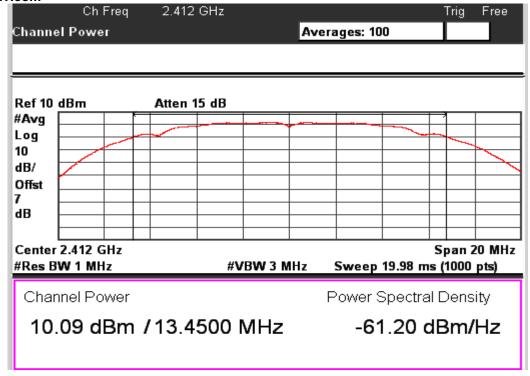
Test Results for Path A

Attenuator (6dB) + cable loss (1dB) = 7dB Considered in the test result

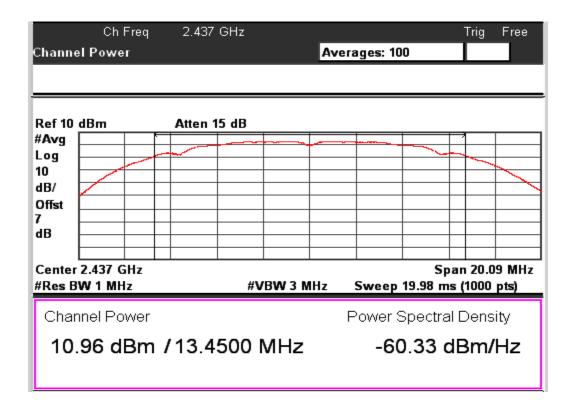
IEEE 802.11b				
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (dBm)	Average Power (mW)	
	2412	10.09	10.21	
1	2437	10.96	12.47	
	2462	10.65	11.61	
	2412	10.75	11.89	
11	2437	11.11	12.91	
	2462	11.54	14.26	

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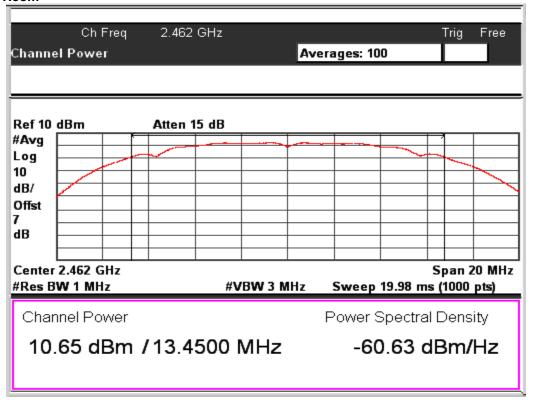
Data rate: 1 Mbps Channel Frequency: 2412 MHz



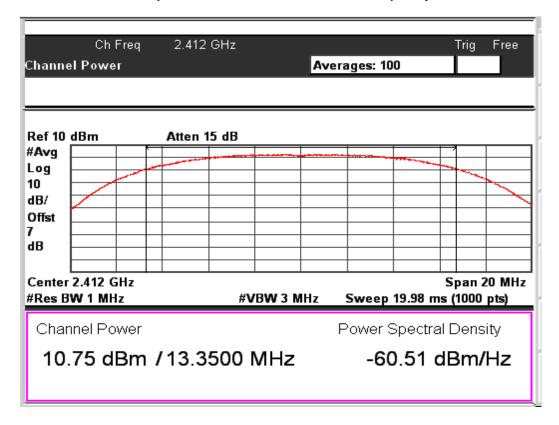
Data rate: 1 Mbps Channel Frequency: 2437 MHz

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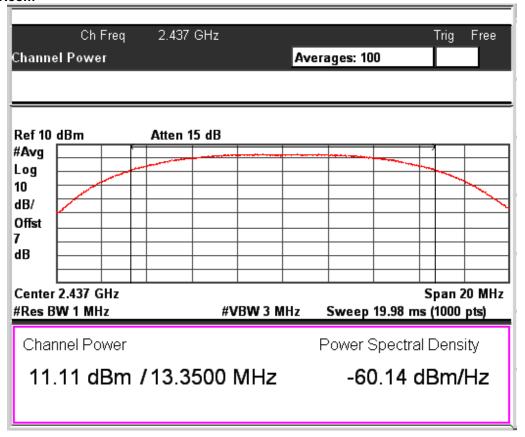
Data rate: 1 Mbps Channel Frequency: 2462 MHz



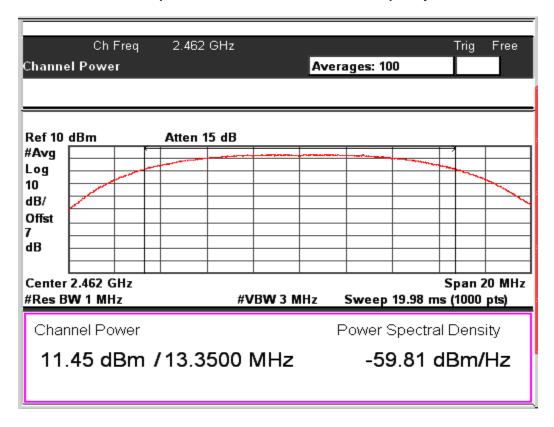
Data rate: 11 Mbps Channel Frequency: 2412 MHz

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Data rate: 11 Mbps Channel Frequency: 2437 MHz

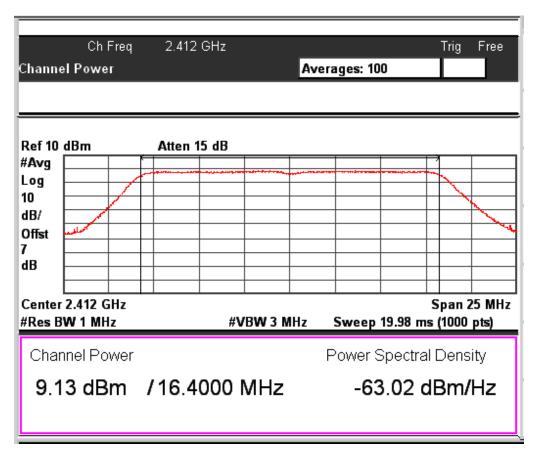


Data rate: 11 Mbps Channel Frequency: 2462 MHz

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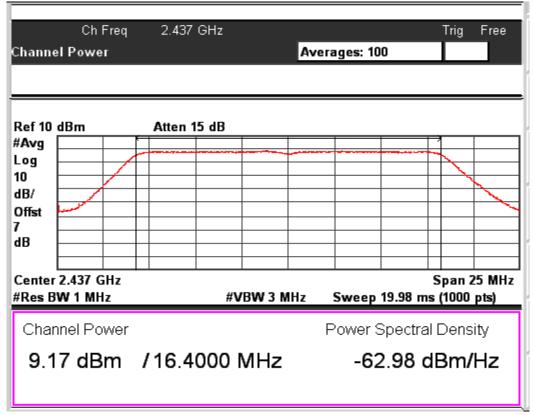
IEEE 802.11g				
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (dBm)	Average Power (mW)	
	2412	9.13	8.18	
6	2437	9.17	8.26	
	2462	8.83	7.64	
	2412	8.99	7.93	
24	2437	9.2	8.32	
	2462	9.47	8.85	
	2412	8.84	7.66	
54	2437	9.25	8.41	
	2462	9.38	8.67	



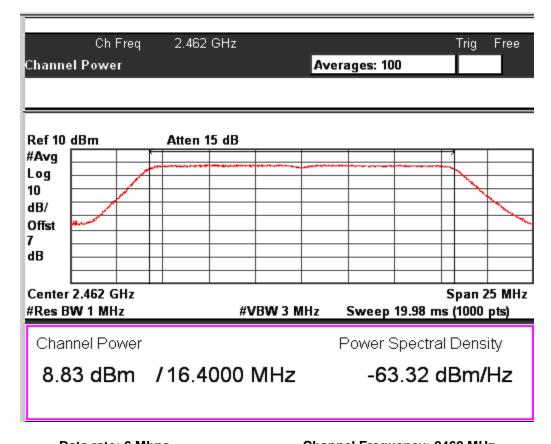
Data rate: 6 Mbps Channel Frequency: 2412 MHz

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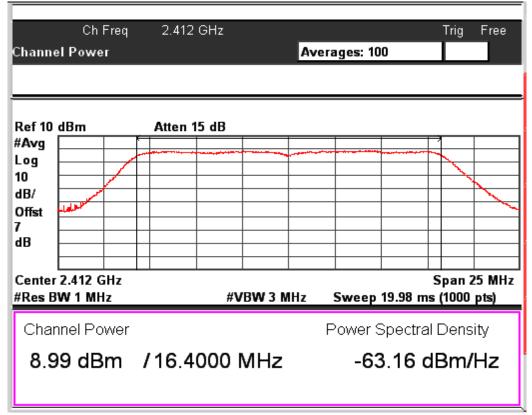
Data rate: 6 Mbps Channel Frequency: 2437 MHz



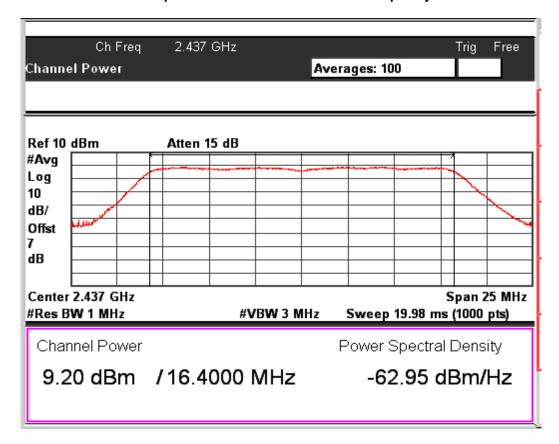
Data rate: 6 Mbps Channel Frequency: 2462 MHz

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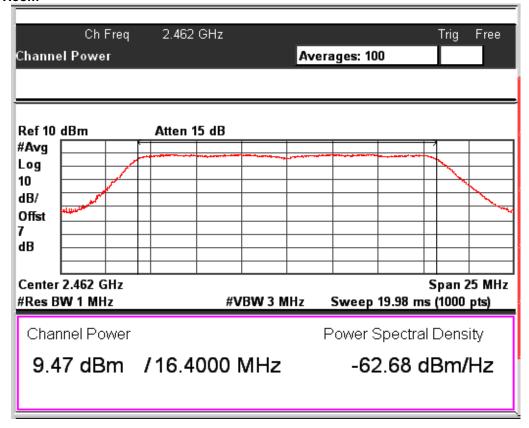
Data rate: 24 Mbps Channel Frequency: 2412 MHz



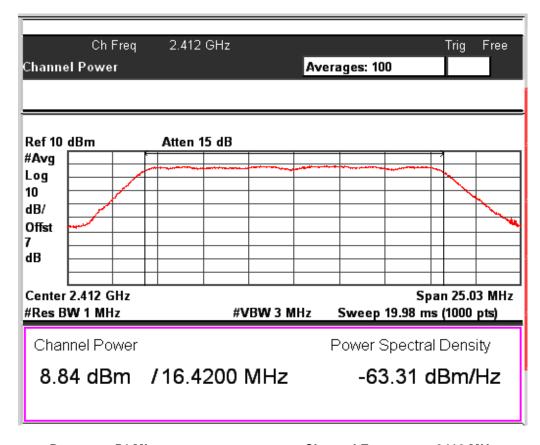
Data rate: 24 Mbps Channel Frequency: 2437 MHz

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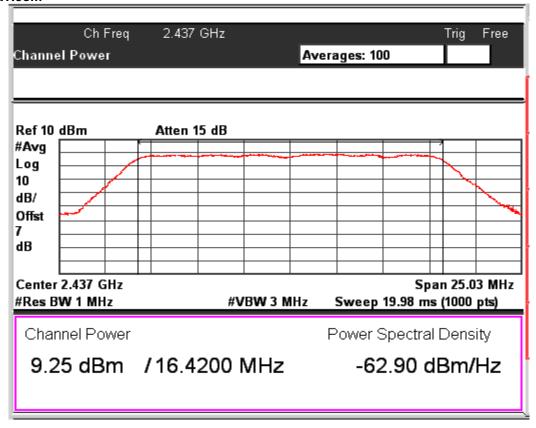
Data rate: 24 Mbps Channel Frequency: 2462 MHz



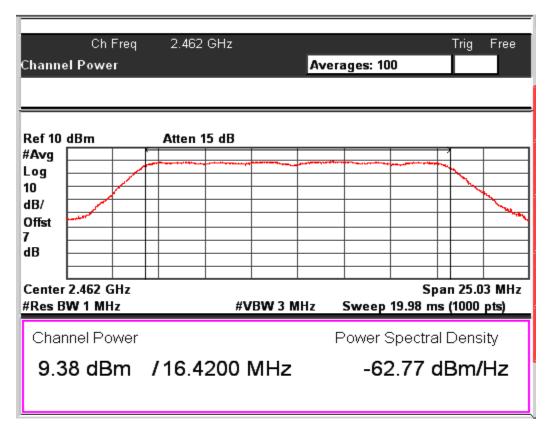
Data rate: 54 Mbps Channel Frequency: 2412 MHz

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Data rate: 54 Mbps Channel Frequency: 2437 MHz

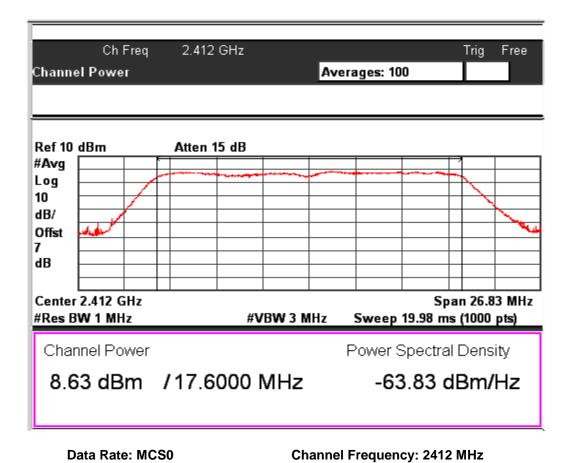


Data rate: 54 Mbps Channel Frequency: 2462 MHz

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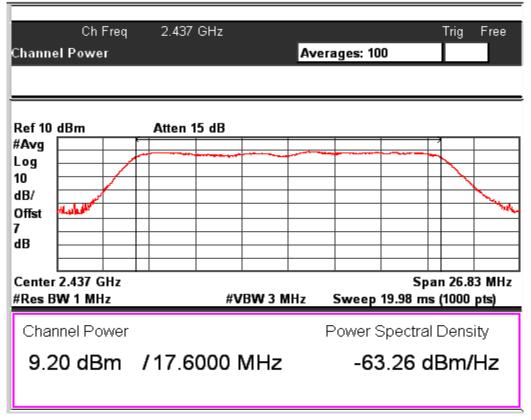


IEEE802.11nHT	IEEE802.11nHT20				
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (dBm)	Average Power (mW)		
	2412	8.63	7.29		
MCS0	2437	9.20	8.32		
	2462	9.03	8.00		
	2412	8.33	6.81		
MCS7	2437	8.98	7.91		
	2462	9.85	9.66		
MCS15	2412	8.31	6.78		
	2437	8.99	7.93		
	2462	9.63	9.18		

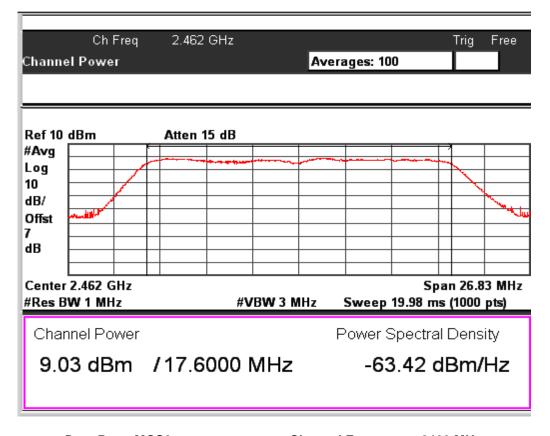


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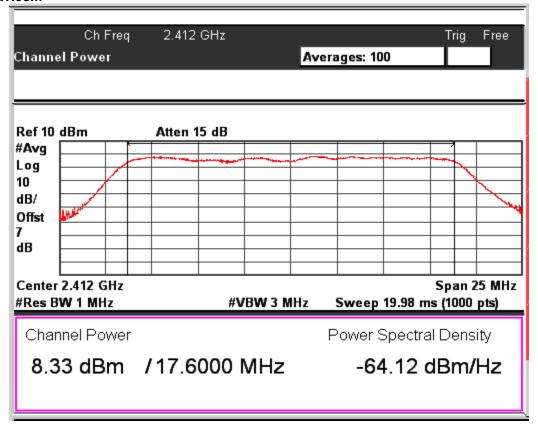
Data Rate: MCS0 Channel Frequency: 2437 MHz



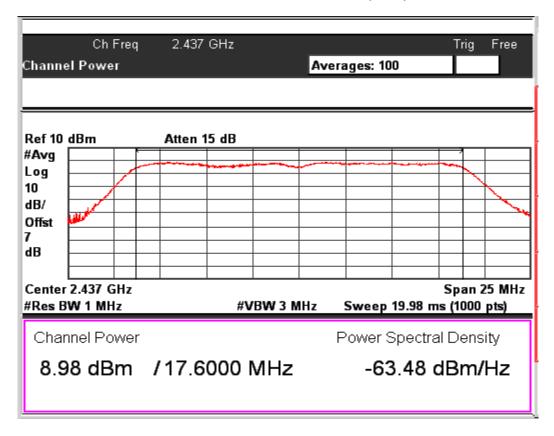
Data Rate: MCS0 Channel Frequency: 2462 MHz

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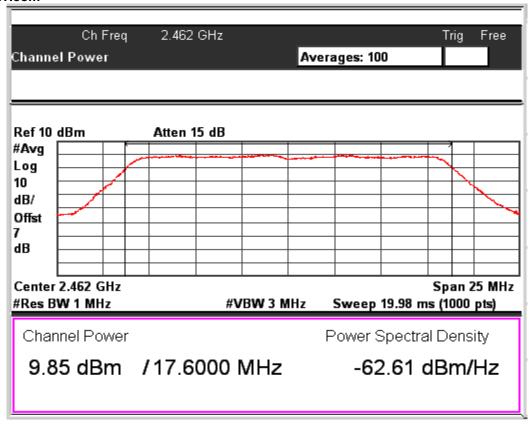
Data Rate: MCS7 Channel Frequency: 2412 MHz



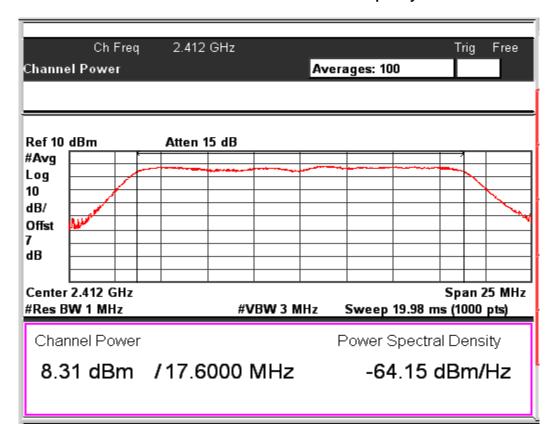
Data Rate: MCS7 Channel Frequency: 2437 MHz

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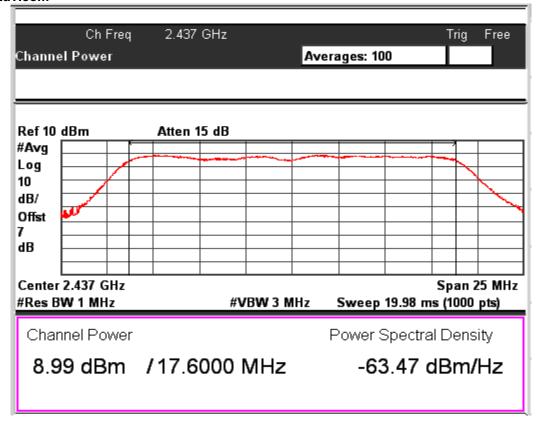
Data Rate: MCS7 Channel Frequency: 2462 MHz



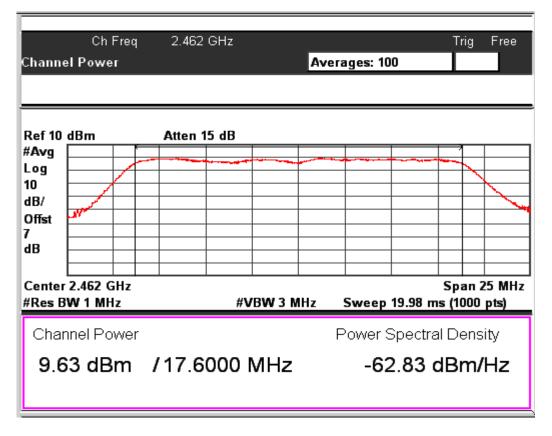
Data Rate: MCS15 Channel Frequency: 2412 MHz

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Data Rate: MCS15 Channel Frequency: 2437 MHz

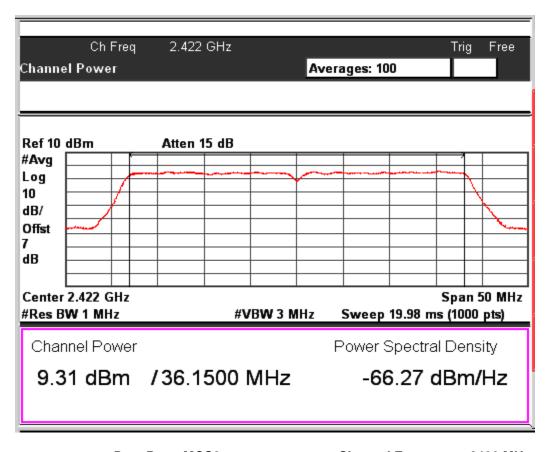


Data Rate: MCS15 Channel Frequency: 2462 MHz

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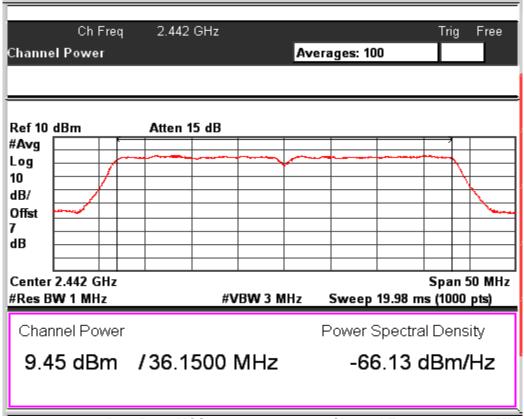
IEEE802.11n HT40			
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (dBm)	Average Power (mW)
	2422	9.31	8.53
MCS0	2442	9.45	8.81
	2457	6.50	4.47
	2422	7.00	5.01
65	2442	9.10	8.13
	2457	7.11	5.14
130	2422	6.72	4.70
	2442	9.73	9.40
	2457	10.28	10.67



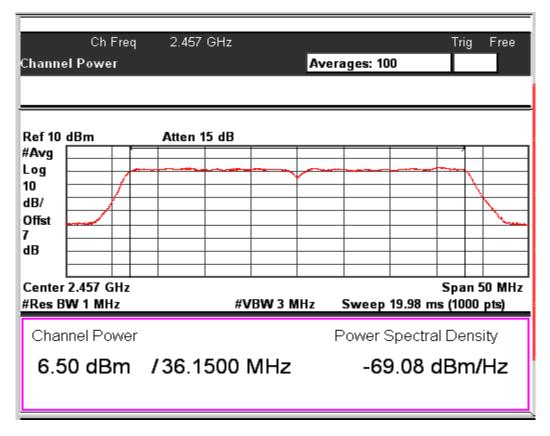
Data Rate: MCS0 Channel Frequency: 2422 MHz

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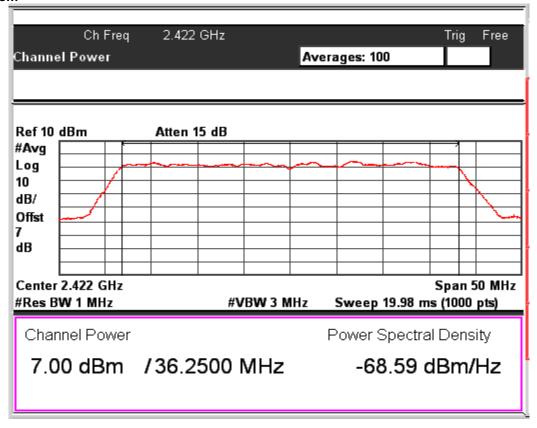
Data Rate: MCS0 Channel Frequency: 2442 MHz



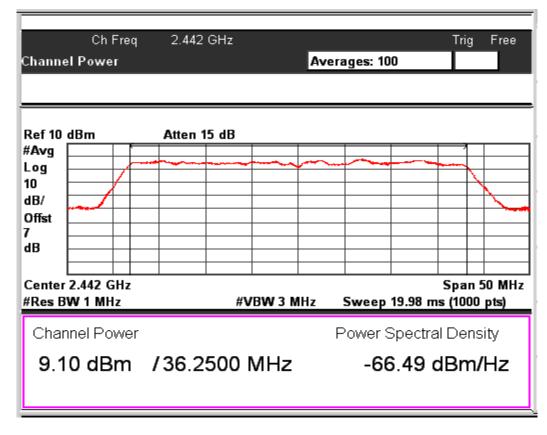
Data Rate: MCS0 Channel Frequency: 2457 MHz

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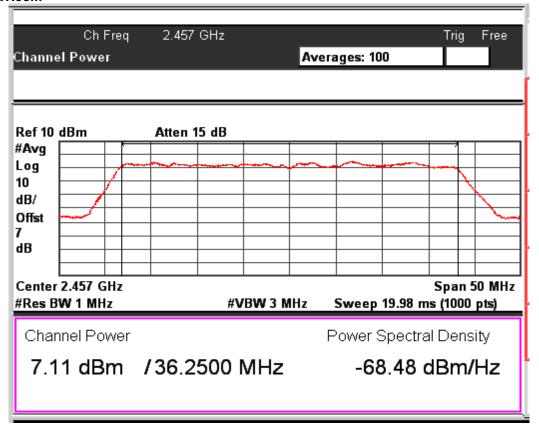
Data Rate: MCS7 Channel Frequency: 2422 MHz



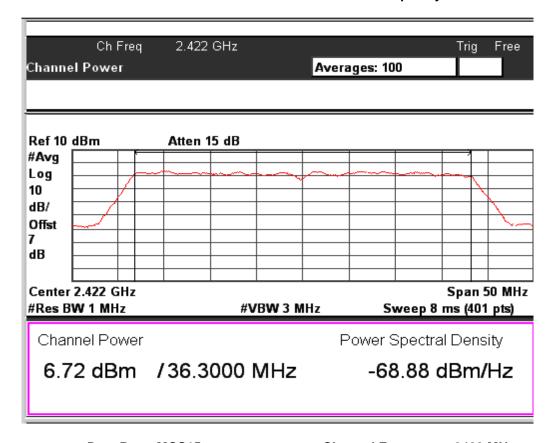
Data Rate: MCS7 Channel Frequency: 2442 MHz

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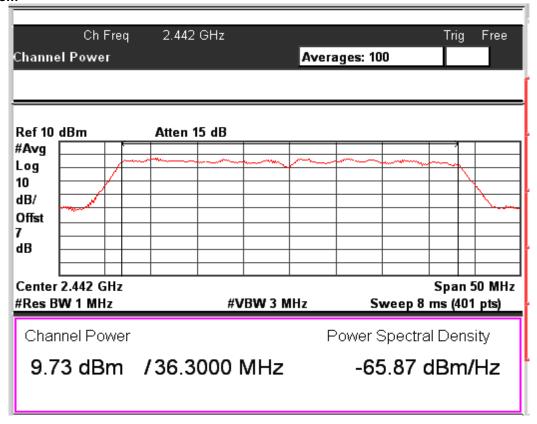
Data Rate: MCS7 Channel Frequency: 2457 MHz



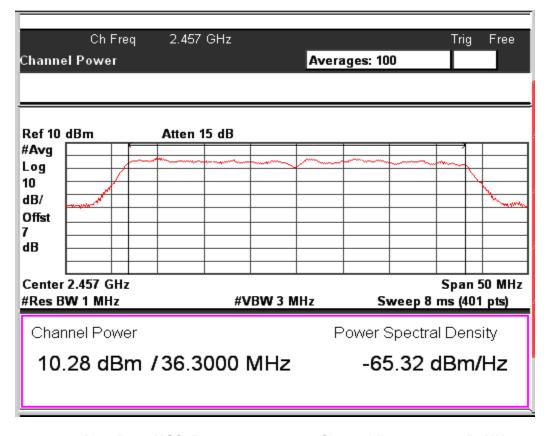
Data Rate: MCS15 Channel Frequency: 2422 MHz

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Data Rate: MCS15 Channel Frequency: 2442 MHz



Data Rate: MCS15 Channel Frequency: 2457 MHz

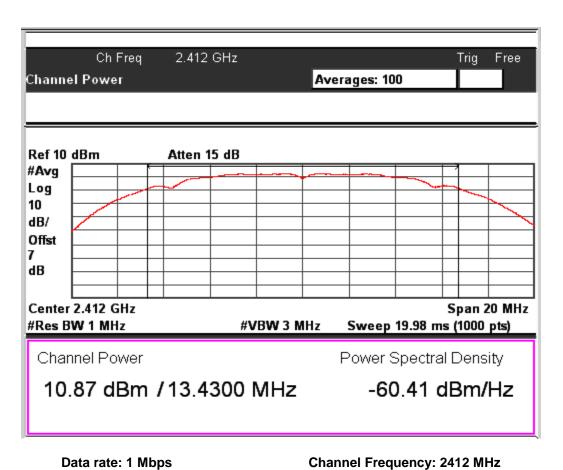
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Test Results for Path B

Attenuator + cable loss = 7dB Considered in the test result

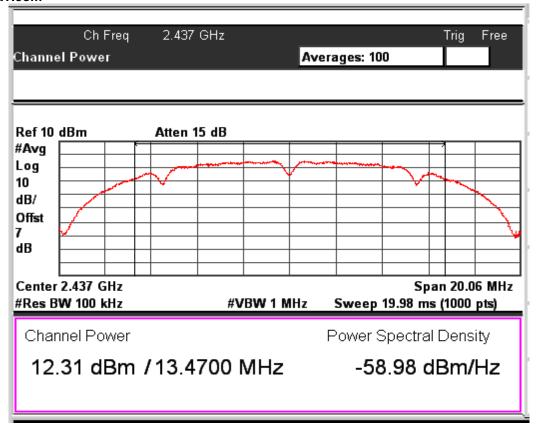
IEEE802.11b				
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (dBm)	Average Power (mW)	
	2412	10.87	12.22	
1	2437	12.31	17.02	
	2462	11.92	15.56	
	2412	11.61	14.49	
11	2437	11.84	15.28	
	2462	12.07	16.11	



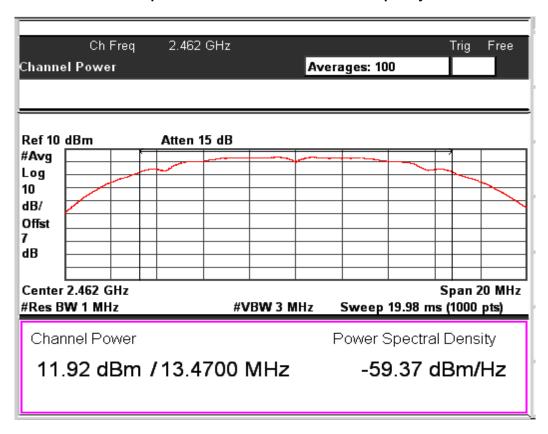
Data rate: 1 Mbps

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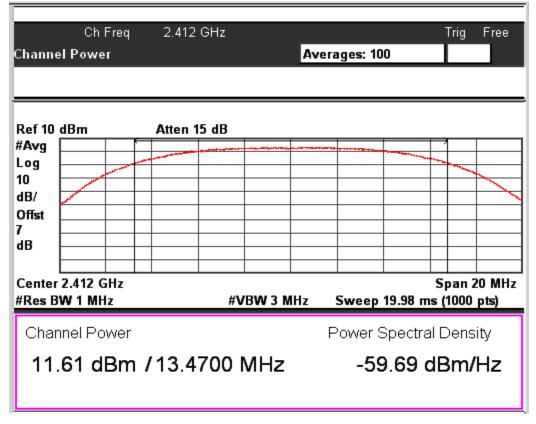
Data rate: 1 Mbps Channel Frequency: 2437 MHz



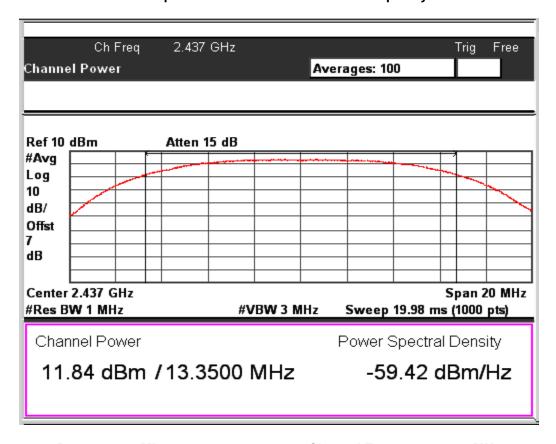
Data rate: 1 Mbps Channel Frequency: 2462 MHz

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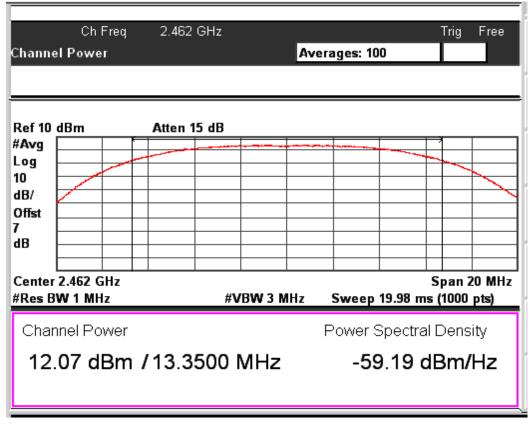
Data rate: 11 Mbps Channel Frequency: 2412 MHz



Data rate: 11 Mbps Channel Frequency: 2437 MHz

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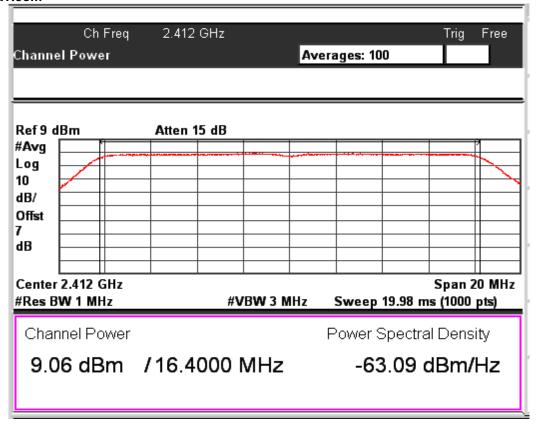


Data rate: 11 Mbps Channel Frequency: 2462 MHz

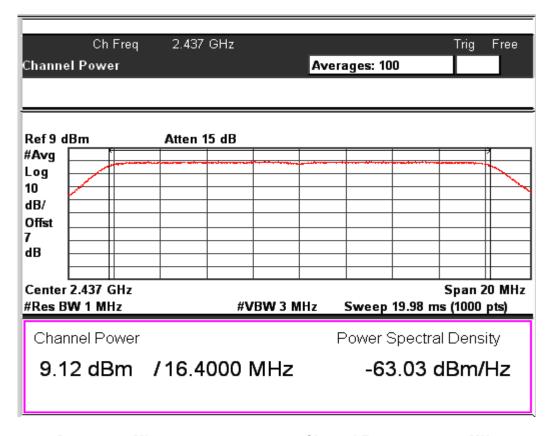
IEEE802.11g				
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (dBm)	Average Power (mW)	
6	2412	9.06	8.05	
	2437	9.12	8.17	
	2462	9.5	8.91	
24	2412	8.83	7.64	
	2437	9.28	8.47	
	2462	9.82	9.59	
54	2412	9.16	8.24	
	2437	9.95	9.89	
	2462	10.05	10.12	

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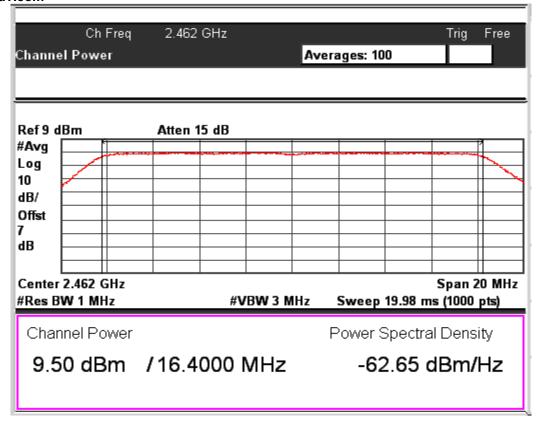
Data rate: 6 Mbps Channel Frequency: 2412 MHz



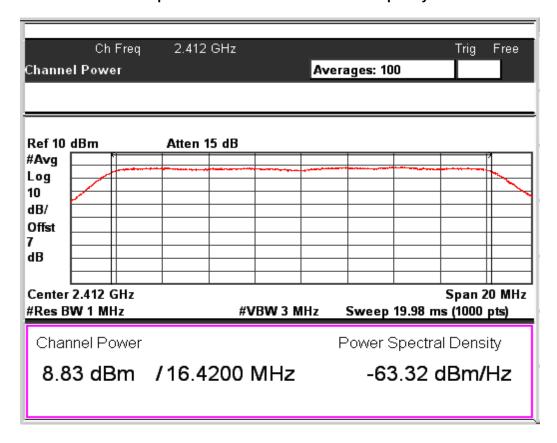
Data rate: 6 Mbps Channel Frequency: 2437 MHz

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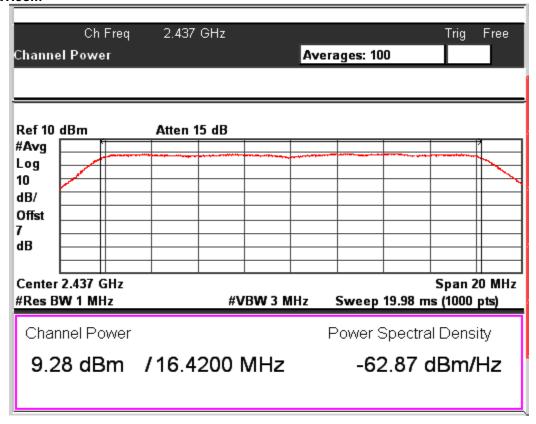
Data rate: 6 Mbps Channel Frequency: 2462 MHz



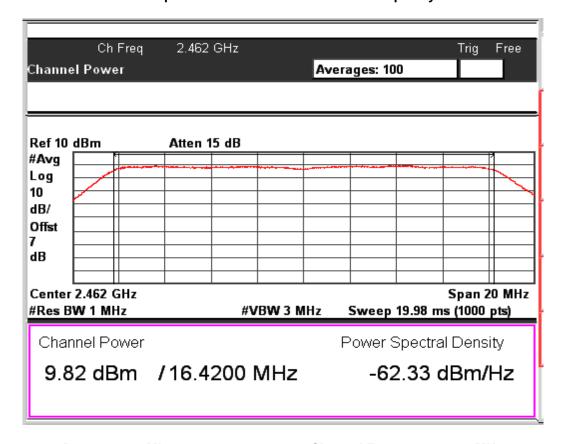
Data rate: 24 Mbps Channel Frequency: 2412 MHz

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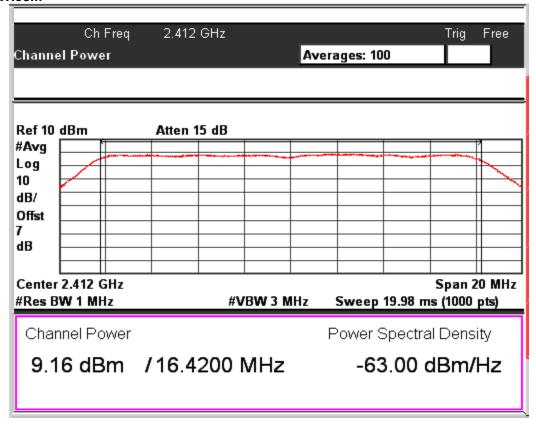
Data rate: 24 Mbps Channel Frequency: 2437 MHz



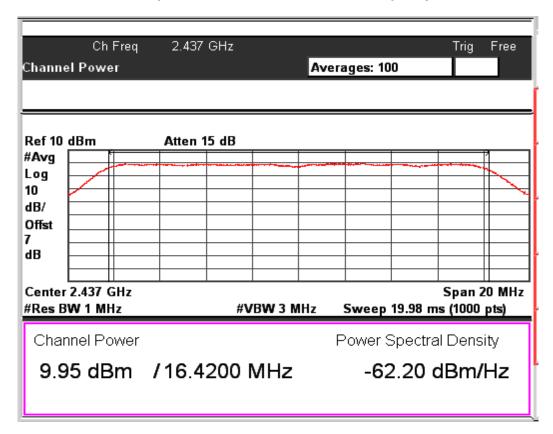
Data rate: 24 Mbps Channel Frequency: 2462 MHz

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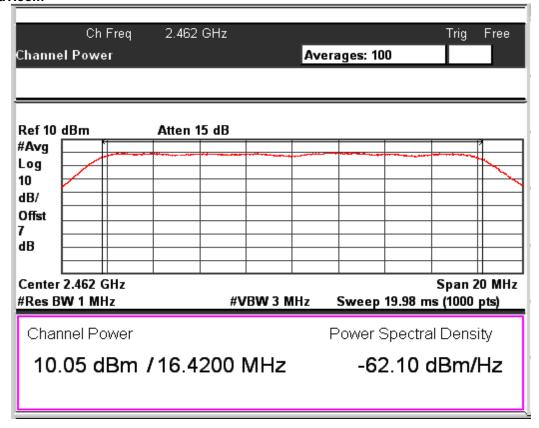
Data rate: 54 Mbps Channel Frequency: 2412 MHz



Data rate: 54 Mbps Channel Frequency: 2437 MHz

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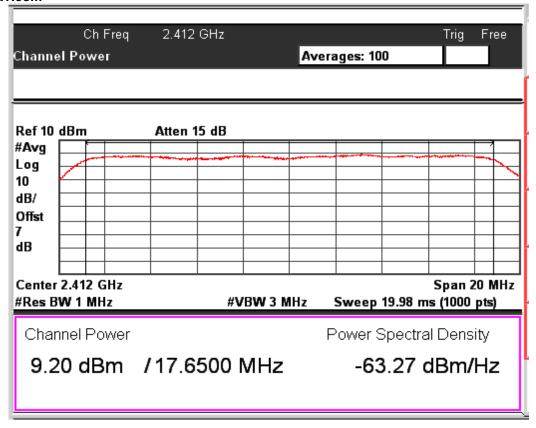


Data rate: 54 Mbps Channel Frequency: 2462 MHz

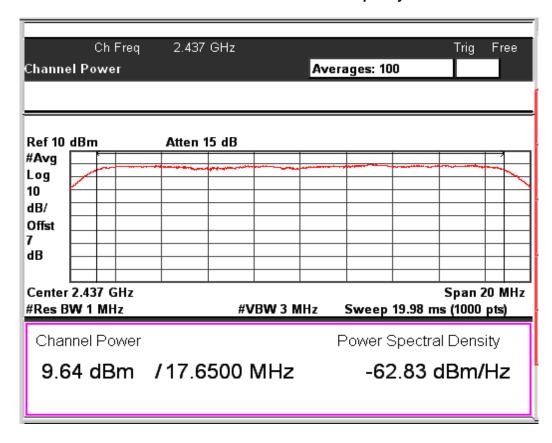
IEEE802.11nHT20				
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (dBm)	Average Power (mW)	
MCS0	2412	9.2	8.32	
	2437	9.64	9.20	
	2462	9.46	8.83	
MCS7	2412	8.94	7.83	
	2437	9.6	9.12	
	2462	9.74	9.42	
MCS15	2412	9.42	8.75	
	2437	9.51	8.93	
	2462	9.38	8.67	

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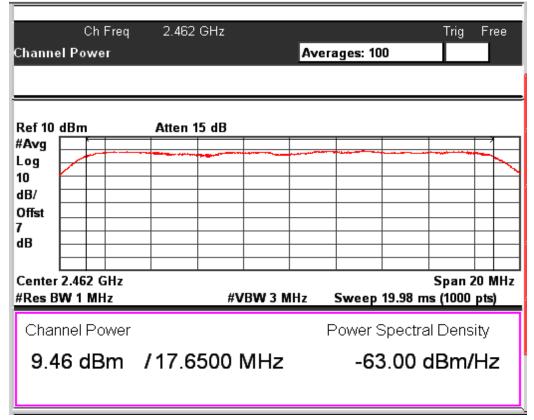
Data Rate: MCS0 Channel Frequency: 2412 MHz



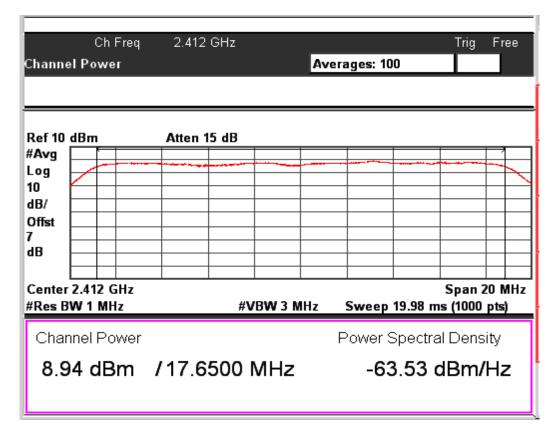
Data Rate: MCS0 Channel Frequency: 2437 MHz

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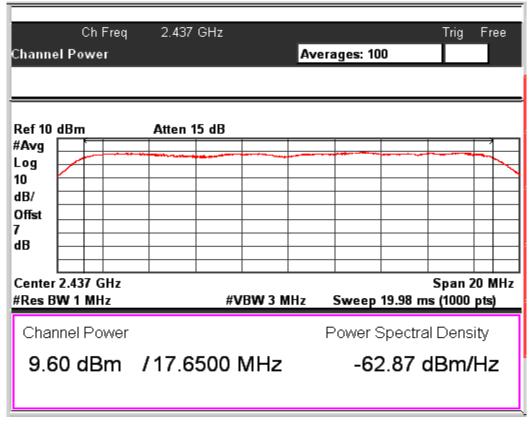
Data Rate: MCS0 Channel Frequency: 2462 MHz



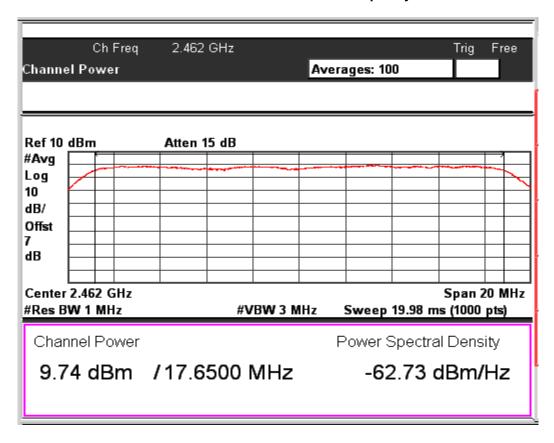
Data Rate: MCS7 Channel Frequency: 2412 MHz

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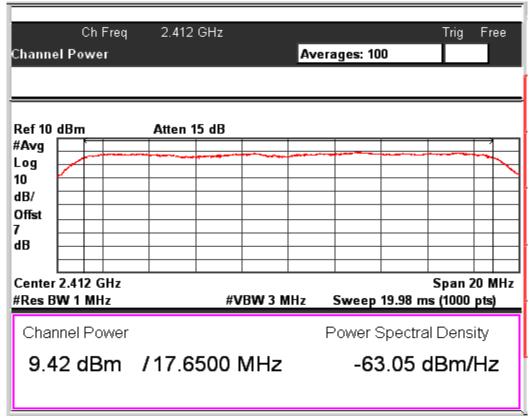
Data Rate: MCS7 Channel Frequency: 2437 MHz



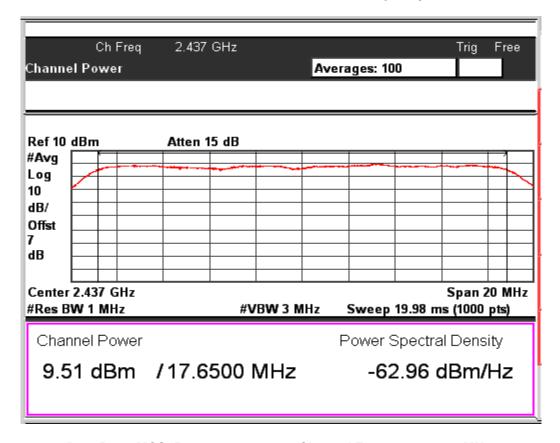
Data Rate: MCS7 Channel Frequency: 2462 MHz

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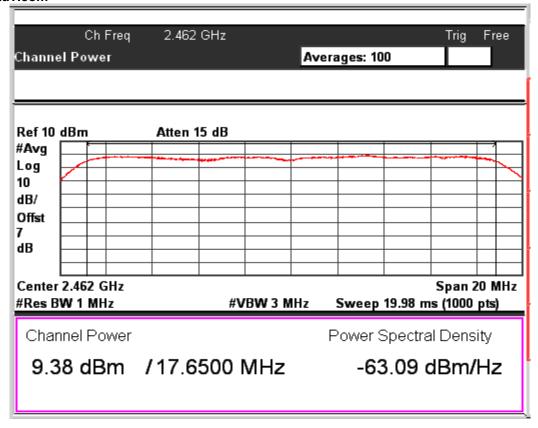
Data Rate: MCS15 Channel Frequency: 2412 MHz



Data Rate: MCS15 Channel Frequency: 2437 MHz

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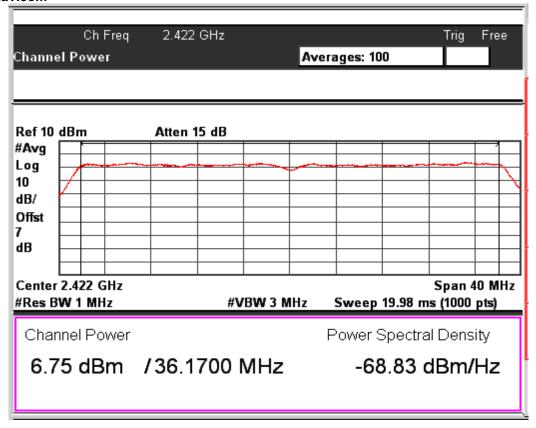


Data Rate: MCS15 Channel Frequency: 2462 MHz

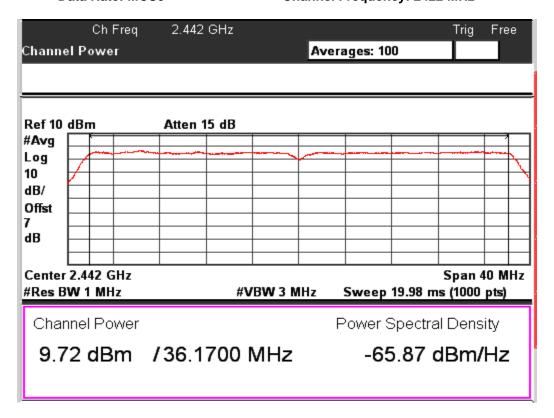
IEEE802.11nHT40								
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (dBm)	Average Power (mW)					
	2422	6.75	4.73					
MCS0	2442	9.72	9.38					
	2457	6.85	4.84					
	2422	7.79	6.01					
MCS7	2442	10.19	10.45					
	2457	7.74	5.94					
	2422	7.86	6.11					
MCS15	2442	10.84	12.13					
	2457	7.97	6.27					

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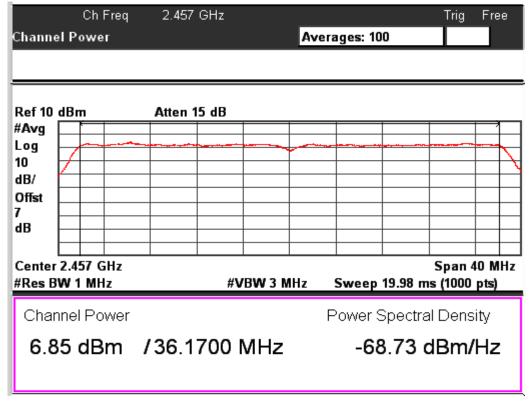
Data Rate: MCS0 Channel Frequency: 2422 MHz



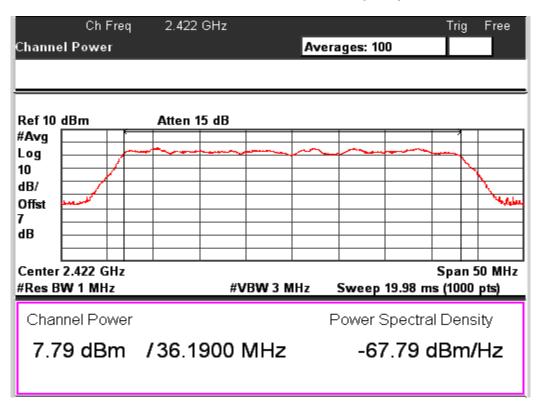
Data Rate: MCS0 Channel Frequency: 2442 MHz

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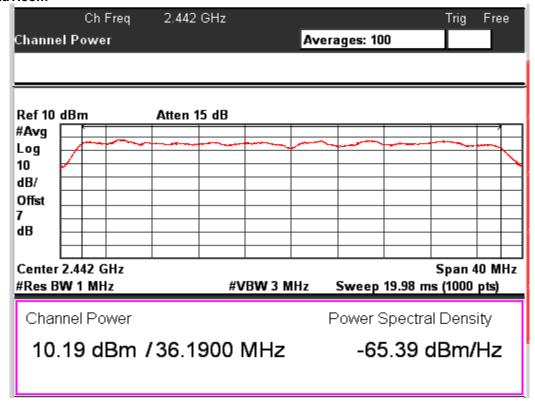
Data Rate: MCS0 Channel Frequency: 2457 MHz



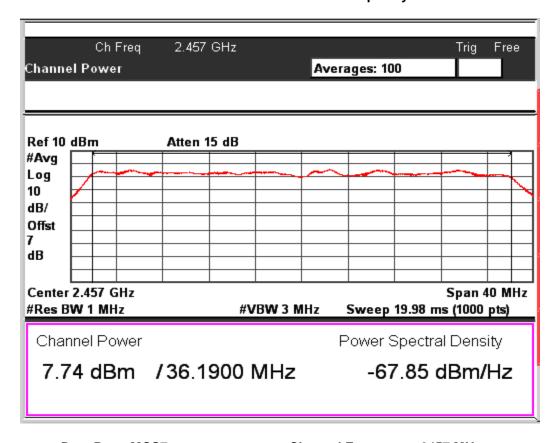
Data Rate: MCS7 Channel Frequency: 2422 MHz

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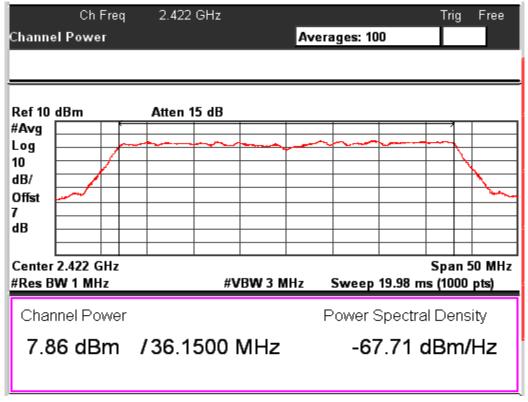
Data Rate: MCS7 Channel Frequency: 2442 MHz



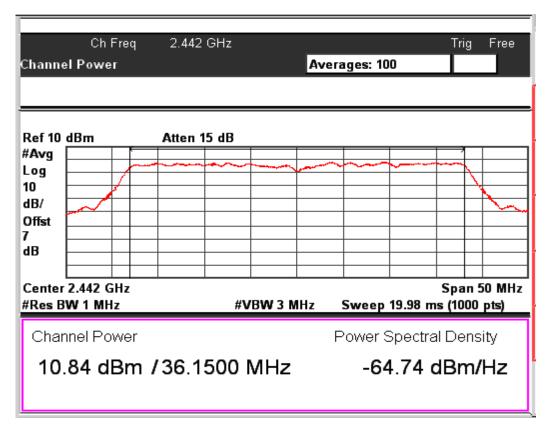
Data Rate: MCS7 Channel Frequency: 2457 MHz

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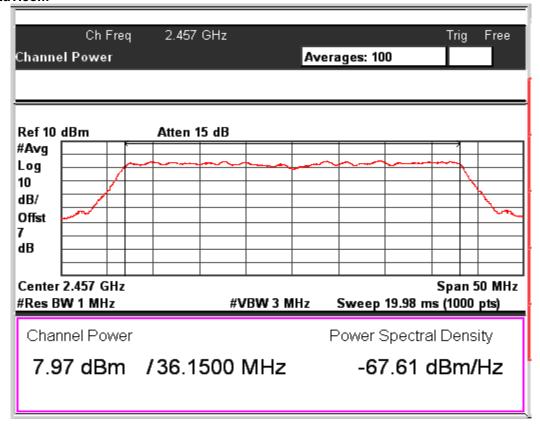
Data Rate: MCS15 Channel Frequency: 2422 MHz



Data Rate: MCS15 Channel Frequency: 2442 MHz

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Data Rate: MCS15 Channel Frequency: 2457 MHz

Measure and sum

IEEE 802.11b									
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (mW) Path A	Average Power (mW) Path B	Total Average Power (mW)	Total Average Power (dBm)	Limit (dBm)	Remarks		
	2412	10.21	12.22	22.43	13.51	30	Pass		
1	2437	12.47	17.02	29.50	14.70	30	Pass		
	2462	11.61	15.56	27.17	14.34	30	Pass		
	2412	11.89	14.49	26.37	14.21	30	Pass		
11	2437	12.91	15.28	28.19	14.50	30	Pass		
	2462	14.26	16.11	30.36	14.82	30	Pass		

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IEEE 802.11g									
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (mW) Path A	Average Power (mW) Path B	Total Average Power (mW)	Total Average Power (dBm)	Limit (dBm)	Remarks		
	2412	8.18	8.05	16.24	12.11	30	Pass		
6	2437	8.26	8.17	16.43	12.16	30	Pass		
	2462	7.64	8.91	16.55	12.19	30	Pass		
	2412	7.93	7.64	15.56	11.92	30	Pass		
24	2437	8.32	8.47	16.79	12.25	30	Pass		
	2462	8.85	9.59	18.45	12.66	30	Pass		
	2412	7.66	8.24	15.90	12.01	30	Pass		
54	2437	8.41	9.89	18.30	12.62	30	Pass		
	2462	8.67	10.12	18.79	12.74	30	Pass		

IEEE 802.11nHT20									
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (mW) Path A	Average Power (mW) Path B	Total Average Power (mW)	Total Average Power (dBm)	Limit (dBm)	Remarks		
	2412	7.29	8.32	15.61	11.93	30	Pass		
MCS0	2437	8.32	9.20	17.52	12.44	30	Pass		
	2462	8.00	8.83	16.83	12.26	30	Pass		
	2412	6.81	7.83	14.64	11.66	30	Pass		
MCS7	2437	7.91	9.12	17.03	12.31	30	Pass		
	2462	9.66	9.42	19.08	12.81	30	Pass		
	2412	6.78	8.75	15.53	11.91	30	Pass		
MCS15	2437	7.93	8.93	16.86	12.27	30	Pass		
	2462	9.18	8.67	17.85	12.52	30	Pass		

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IEEE 802.11nHT40									
Data Rate (Mbps)	Channel Frequency (MHz)	Average Power (mW) Path A	Average Power (mW) Path B	Total Average Power (mW)	Total Average Power (dBm)	Limit (dBm)	Remarks		
	2422	8.53	4.73	13.26	11.23	30	Pass		
MCS0	2437	8.81	9.38	18.19	12.60	30	Pass		
	2457	4.47	4.84	9.31	9.69	30	Pass		
	2422	5.01	6.01	11.02	10.42	30	Pass		
MCS7	2437	8.13	10.45	18.58	12.69	30	Pass		
	2457	5.14	5.94	11.08	10.45	30	Pass		
	2422	4.70	6.11	10.81	10.34	30	Pass		
MCS15	2437	9.40	12.13	21.53	13.33	30	Pass		
	2457	10.67	6.27	16.93	12.29	30	Pass		

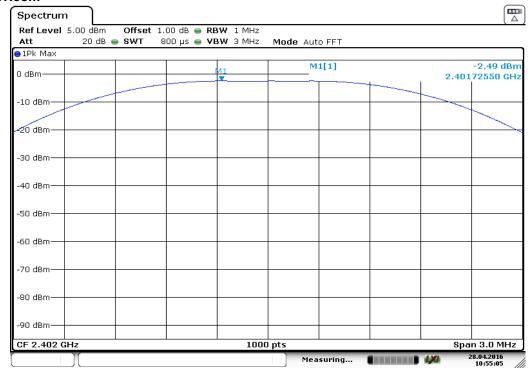
Test Result: Bluetooth LE

Attenuator (6dB) + cable loss (1dB) = 7dB Considered in the test result

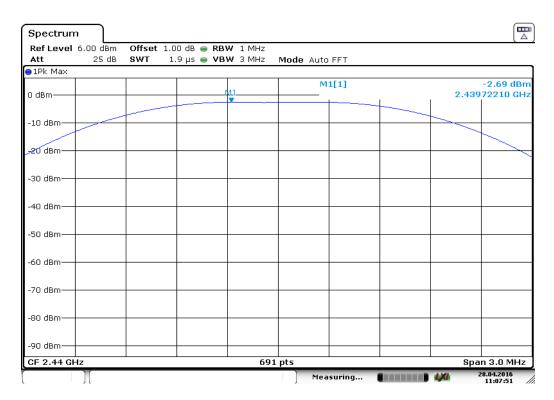
Channel Frequency (MHz)	Total Power (dBm)	Limit (dBm)	Remarks
2402	-2.49	30.00	Pass
2437	-2.69	30.00	Pass
2480	-3.04	30.00	Pass

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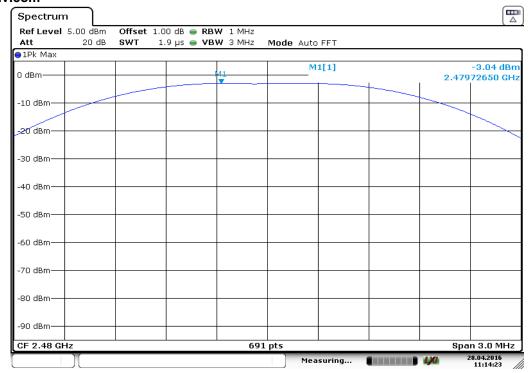
Channel Frequency: 2402 MHz



Channel Frequency: 2440 MHz

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Channel Frequency: 2480 MHz

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Maximum Power Spectral Density Result

Section 15.247(e) Pass

Test Specification Detector Function FCC Part 15 Section 15.247 (e)

Average

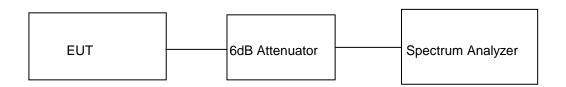
Requirement

For digitally modulated systems, the power spectral density conducted from the

intentional radiator to the antenna shall not be greater than 8 dBm.

Note: For measurement of Maximum power spectral density option 1 was used as mentioned in KDB.

Test Method:



Test Result:

Test Results for Path A

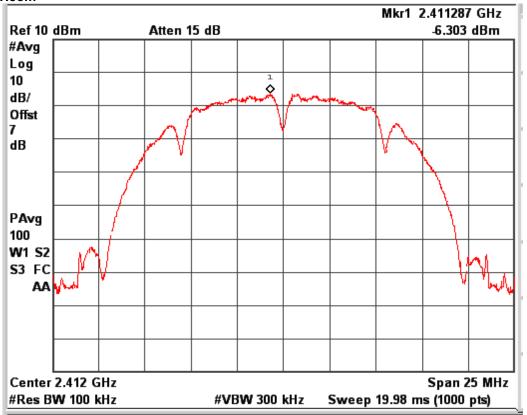
Attenuator (6dB) + cable loss (1dB) = 7dB Considered in the test result

Measure and add 10 log (NANT) dB, NANT (Number of antenna port) -> 2

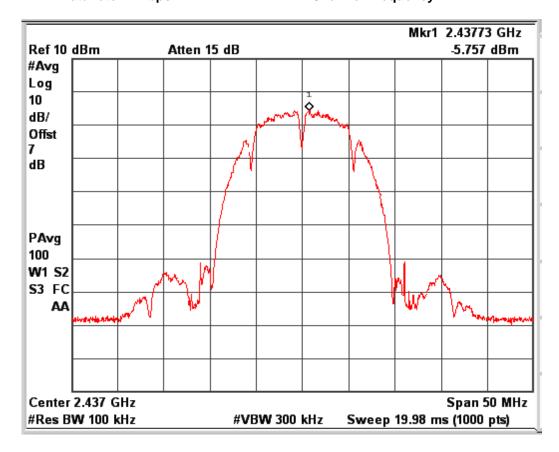
IEEE802.11b					
Data Rate (Mbps)	Channel Frequency (MHz)	Total PSD (dBm)	Measure & Add 10*log(2)	Total PSD (dBm)	Limit (dBm)
	2412	-6.303	3.01	-3.293	8
1	2437	-5.757	3.01	-2.747	8
	2462	-5.435	3.01	-2.425	8
	2412	-5.793	3.01	-2.783	8
11	2437	-5.752	3.01	-2.742	8
	2462	-5.045	3.01	-2.035	8

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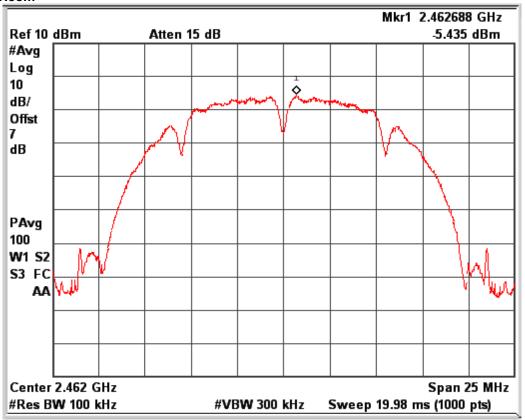
Data rate: 1 Mbps Channel Frequency: 2412 MHz



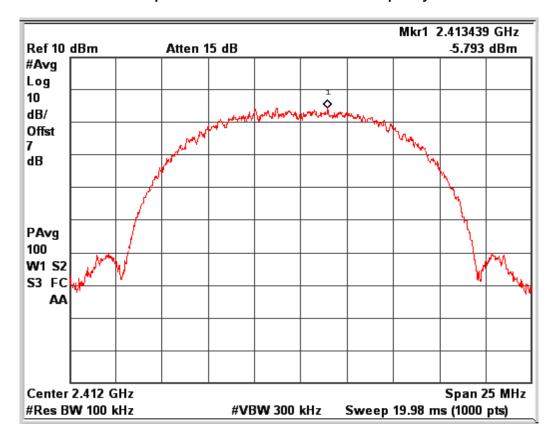
Data rate: 1 Mbps Channel Frequency: 2437 MHz

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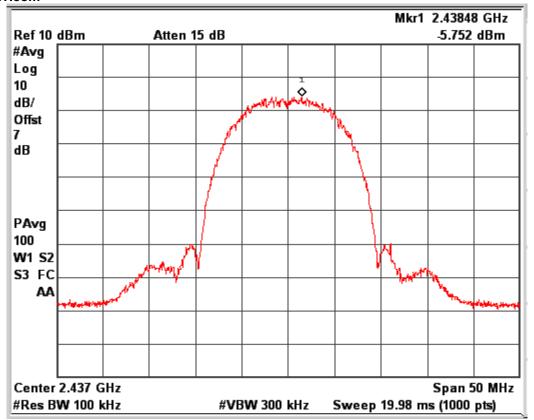
Data rate: 1 Mbps Channel Frequency: 2462 MHz



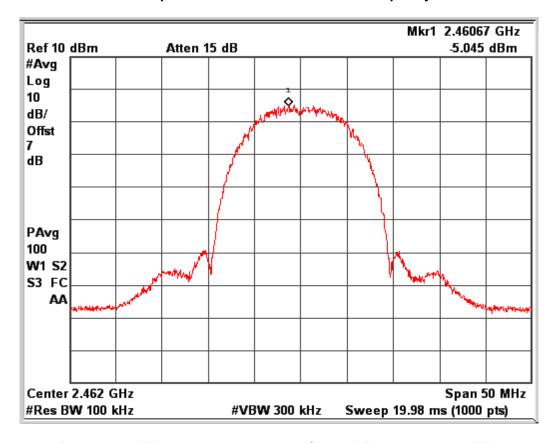
Data rate: 11 Mbps Channel Frequency: 2412 MHz

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Data rate: 11 Mbps Channel Frequency: 2437 MHz

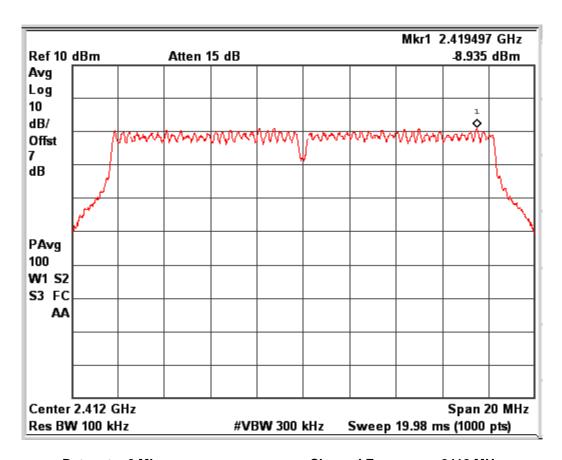


Data rate: 11 Mbps Channel Frequency: 2462 MHz

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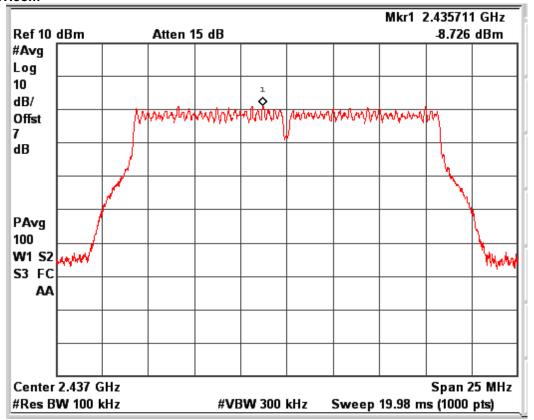
IEEE802.11g					
Data Rate (Mbps)	Channel Frequency (MHz)	Measured PSD (dBm)	Measure & Add 10*log(2)	Total PSD (dBm)	Limit (dBm)
	2412	-8.935	3.01	-5.925	8
6	2437	-8.726	3.01	-5.716	8
	2462	-9.037	3.01	-6.027	8
	2412	-7.215	3.01	-4.205	8
24	2437	-7.139	3.01	-4.129	8
	2462	-6.667	3.01	-3.657	8
	2412	-5.379	3.01	-2.369	8
54	2437	-5.268	3.01	-2.258	8
	2462	-4.956	3.01	-1.946	8



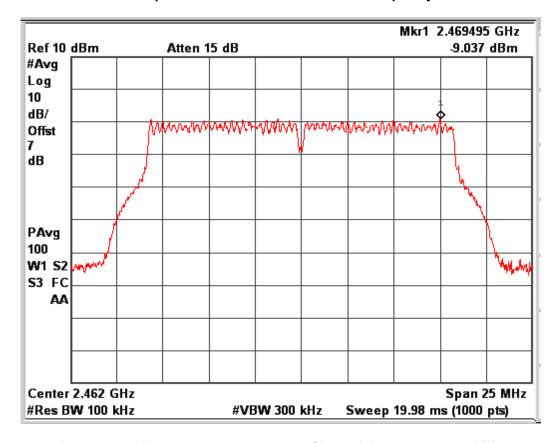
Data rate: 6 Mbps Channel Frequency: 2412 MHz

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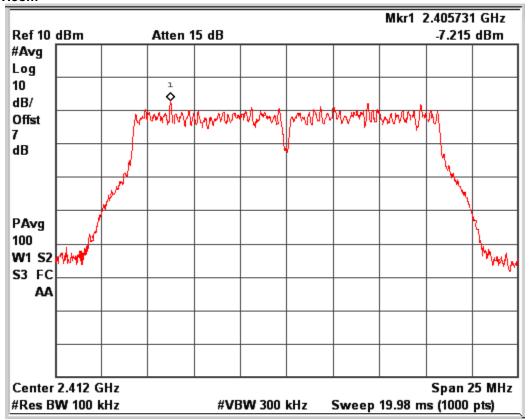
Data rate: 6 Mbps Channel Frequency: 2437 MHz



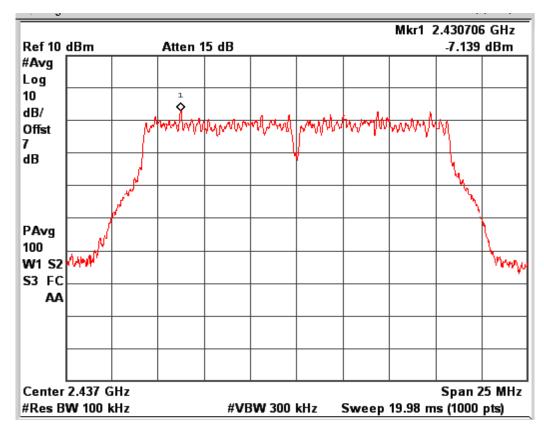
Data rate: 6 Mbps Channel Frequency: 2462 MHz

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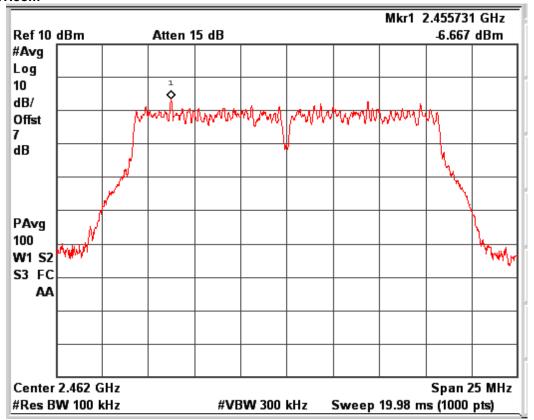
Data rate: 24 Mbps Channel Frequency: 2412 MHz



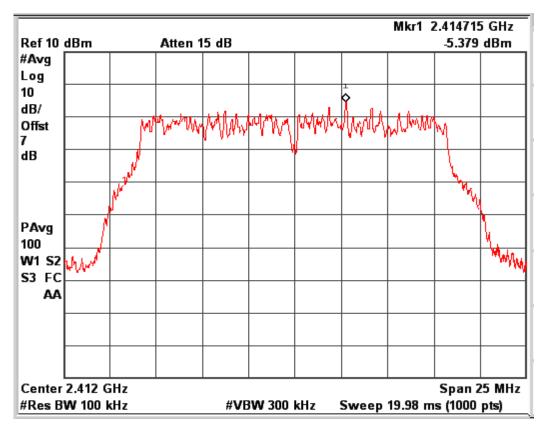
Data rate: 24 Mbps Channel Frequency: 2437 MHz

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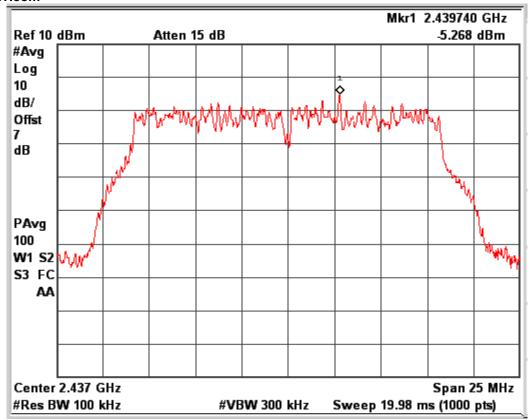
Data rate: 24 Mbps Channel Frequency: 2462 MHz



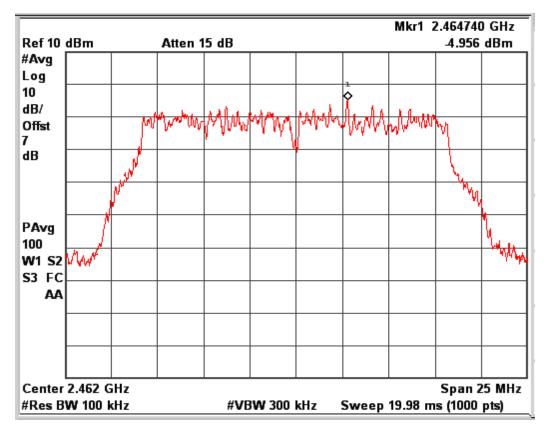
Data rate: 54 Mbps Channel Frequency: 2412 MHz

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Data rate: 54 Mbps Channel Frequency: 2437 MHz

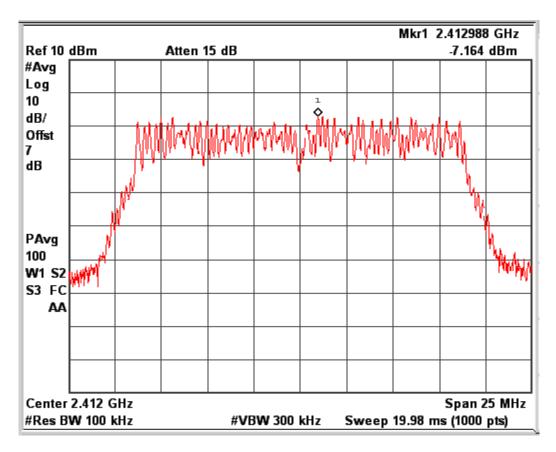


Data rate: 54 Mbps Channel Frequency: 2462 MHz

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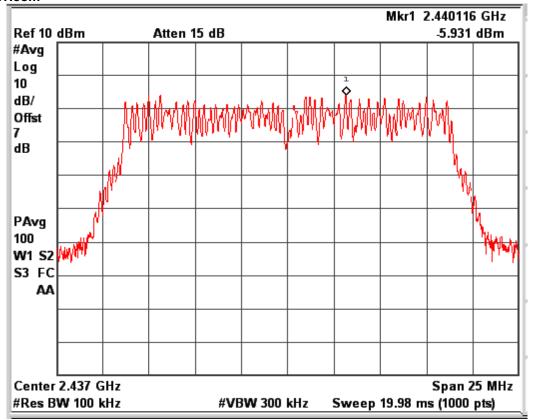
IEEE802.11nH					
Data Rate (Mbps)	Channel Frequency (MHz)	Total PSD (dBm)	Measure & Add 10*log(2)	Total PSD (dBm)	Limit (dBm)
	2412	-7.164	3.01	-4.154	8
MCS0	2437	-5.931	3.01	-2.921	8
	2462	-6.029	3.01	-3.019	8
	2412	-7.043	3.01	-4.033	8
MCS7	2437	-6.071	3.01	-3.061	8
	2462	-5.658	3.01	-2.648	8
	2412	-7.129	3.01	-4.119	8
MCS15	2437	-5.87	3.01	-2.86	8
	2462	-6.035	3.01	-3.025	8



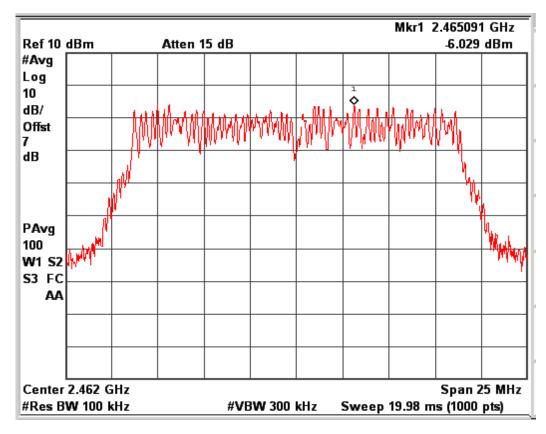
Data rate: MCS0 Channel Frequency: 2412 MHz

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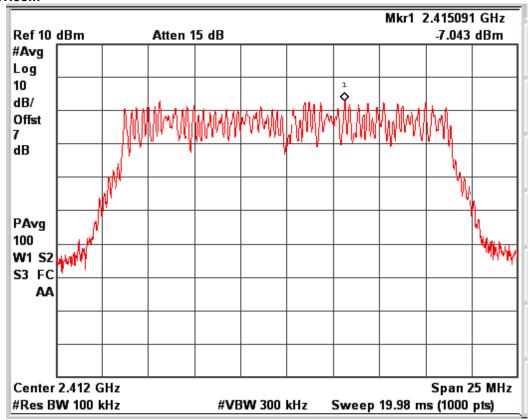
Data rate: MCS0 Channel Frequency: 2437 MHz



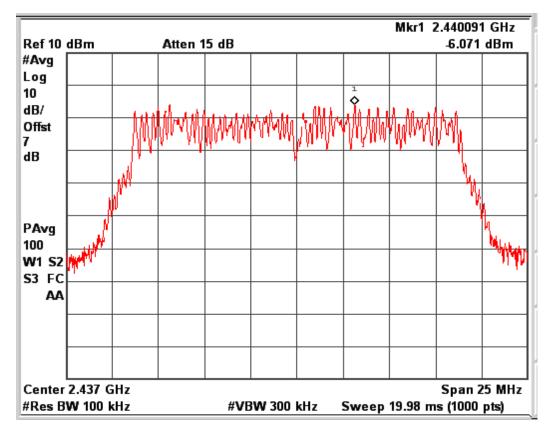
Data rate: MCS0 Channel Frequency: 2462 MHz

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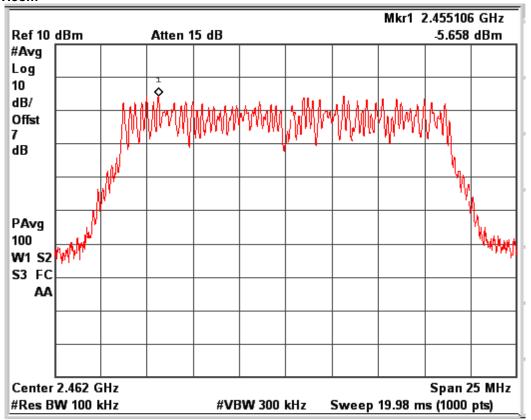
Data rate: MCS7 Channel Frequency: 2412 MHz



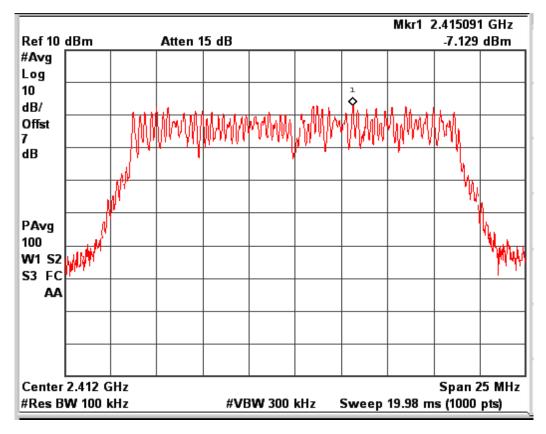
Data rate: MCS7 Channel Frequency: 2437 MHz

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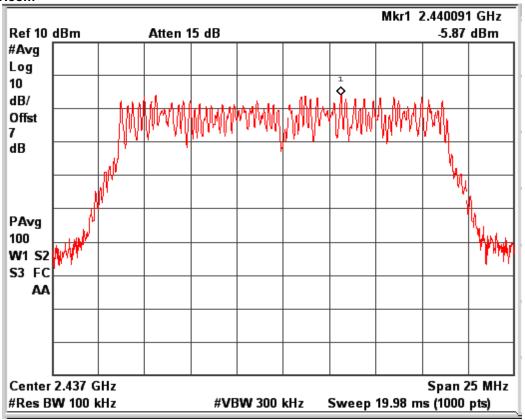
Data rate: MCS7 Channel Frequency: 2462 MHz



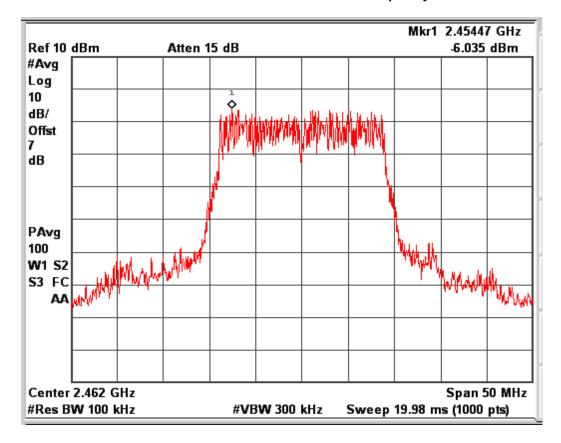
Data rate: MCS15 Channel Frequency: 2412 MHz

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Data rate: MCS15 Channel Frequency: 2437 MHz

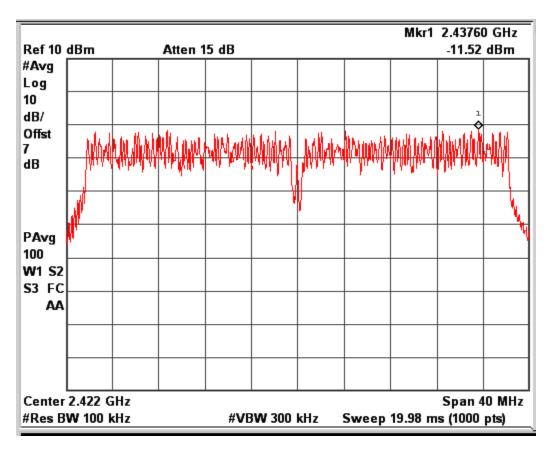


Data rate: MCS15 Channel Frequency: 2462 MHz

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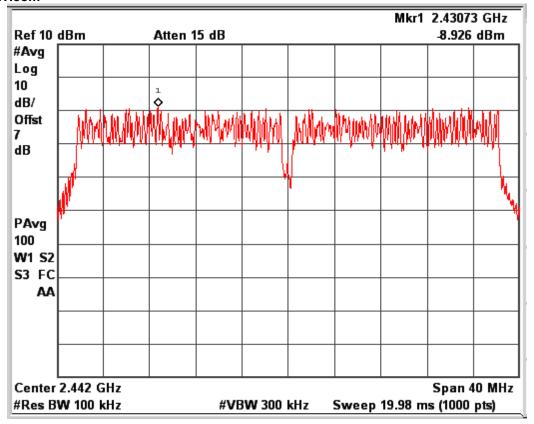
IEEE802.11nHT40							
Data Rate (Mbps)	Channel Frequency (MHz)	Total PSD (dBm)	Measure & Add 10*log(2)	Total PSD (dBm)	Limit (dBm)		
	2422	-11.52	3.01	-8.51	8		
MCS0	2442	-8.926	3.01	-5.916	8		
	2457	-11.82	3.01	-8.81	8		
	2422	-10.57	3.01	-7.56	8		
MCS7	2442	-7.87	3.01	-4.86	8		
	2457	-10.78	3.01	-7.77	8		
	2422	-10.81	3.01	-7.8	8		
MCS15	2442	-7.269	3.01	-4.259	8		
	2457	-10.49	3.01	-7.48	8		



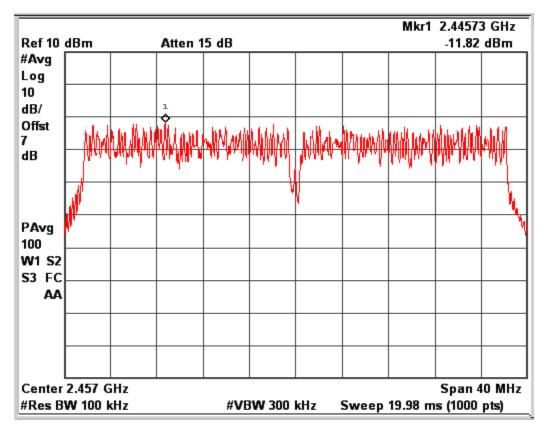
Data rate: MCS0 Channel Frequency: 2412 MHz

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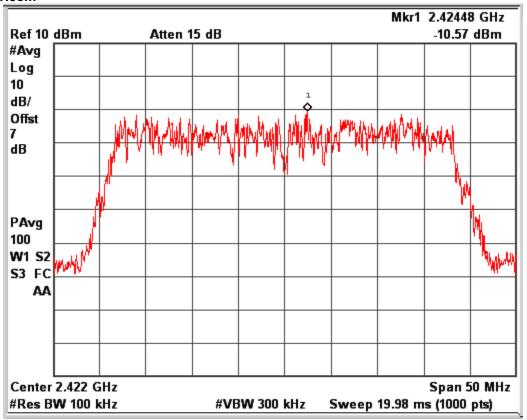
Data rate: MCS0 Channel Frequency: 2437 MHz



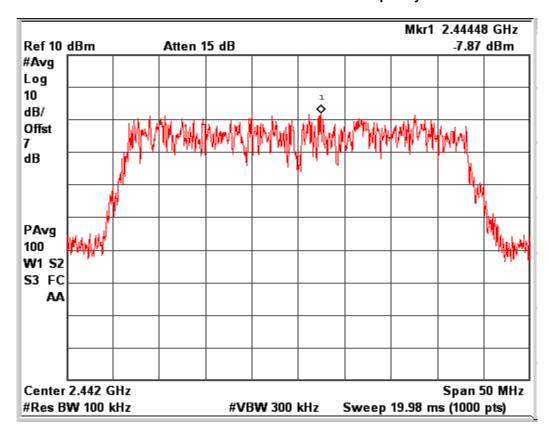
Data rate: MCS0 Channel Frequency: 2462 MHz

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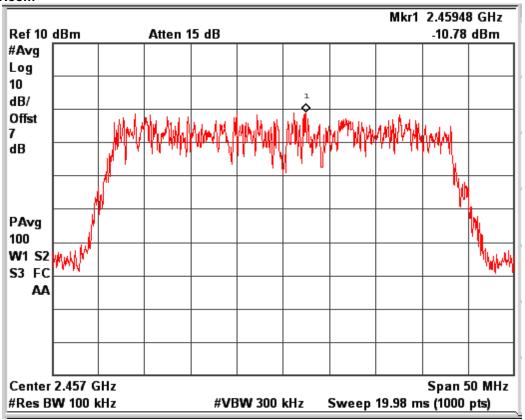
Data rate: MCS7 Channel Frequency: 2412 MHz



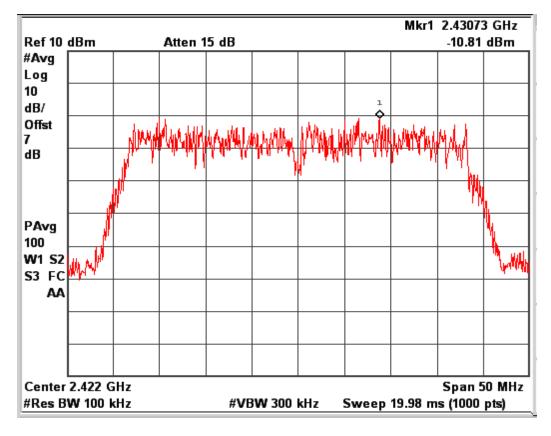
Data rate: MCS7 Channel Frequency: 2437 MHz

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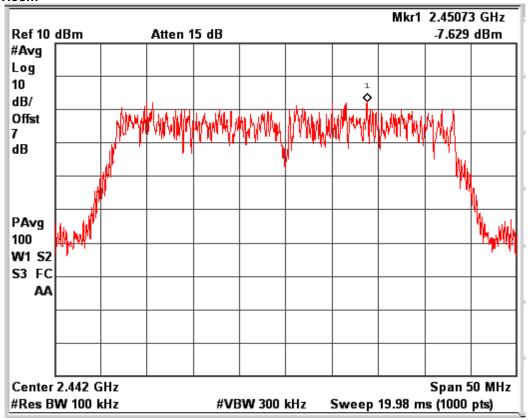
Data rate: MCS7 Channel Frequency: 2462 MHz



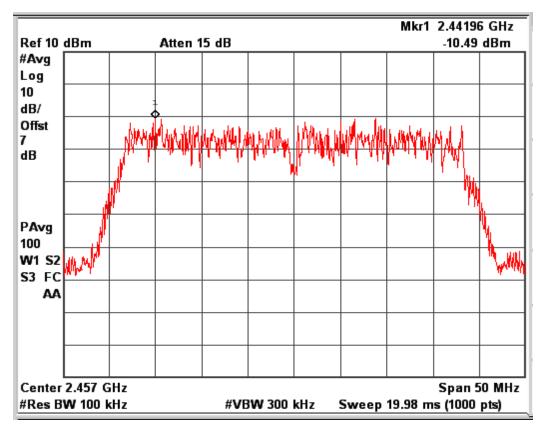
Data rate: MCS15 Channel Frequency: 2412 MHz

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Data rate: MCS15 Channel Frequency: 2437 MHz



Data rate: MCS15 Channel Frequency: 2462 MHz

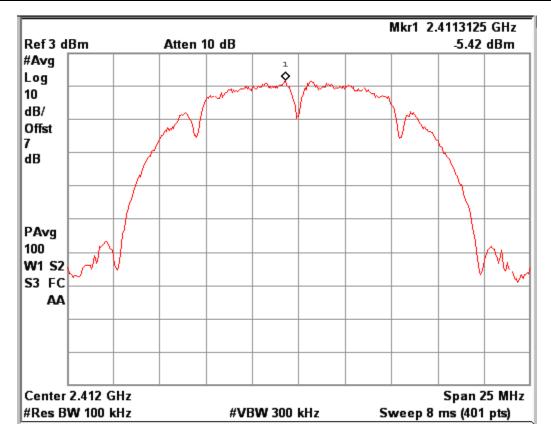
Test Report No.: 19660221 001 Date: 27.04.2016 Page 69 of 184



Test Results for Path B

Attenuator (6dB) + cable loss (1dB) = 7dB Considered in the test result

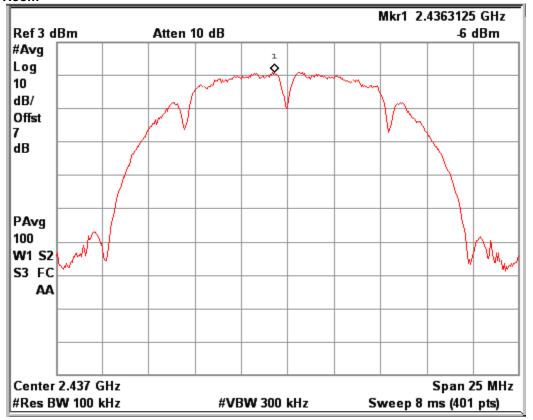
IEEE802.11b					
Data Rate (Mbps)	Channel Frequency (MHz)	Total PSD (dBm)	Measure & Add 10*log(2)	Total PSD (dBm)	Limit (dBm)
	2412	-5.42	3.01	-2.41	8
1	2437	-6.00	3.01	-2.99	8
	2462	-5.06	3.01	-2.05	8
	2412	-5.24	3.01	-2.23	8
11	2437	-5.61	3.01	-2.60	8
	2462	-4.52	3.01	-1.51	8



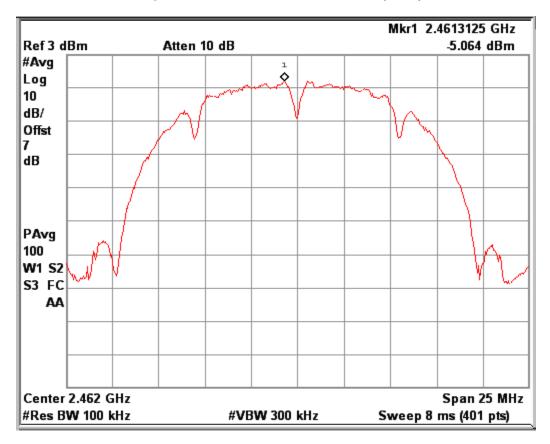
Data rate: 1 Mbps Channel Frequency: 2412 MHz

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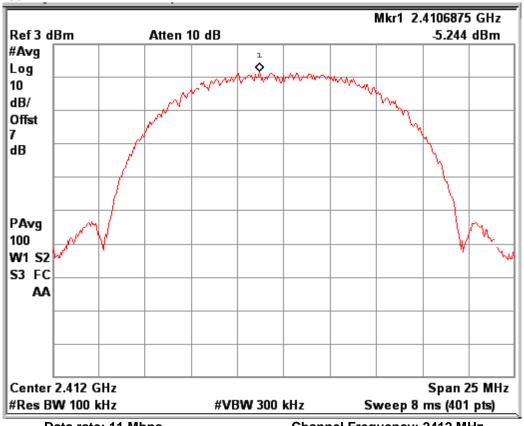
Data rate: 1 Mbps Channel Frequency: 2437 MHz



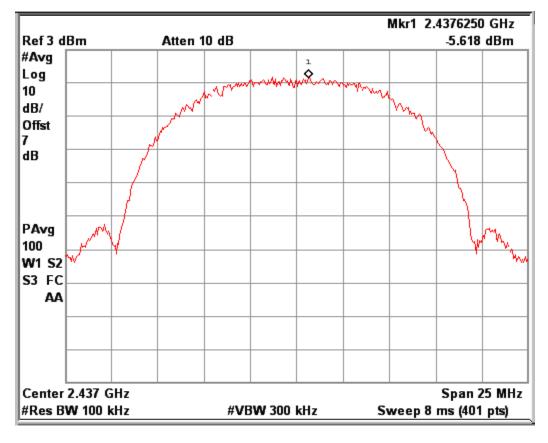
Data rate: 1 Mbps Channel Frequency: 2462 MHz

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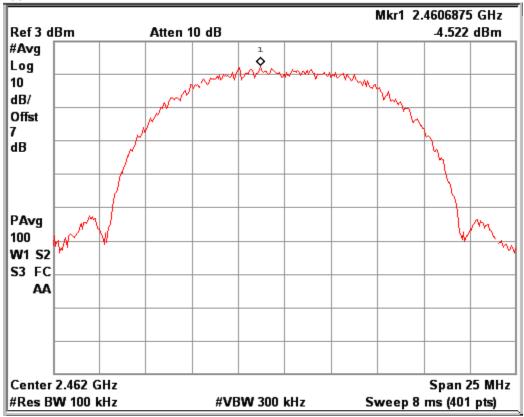
Data rate: 11 Mbps **Channel Frequency: 2412 MHz**



Channel Frequency: 2437 MHz Data rate: 11 Mbps

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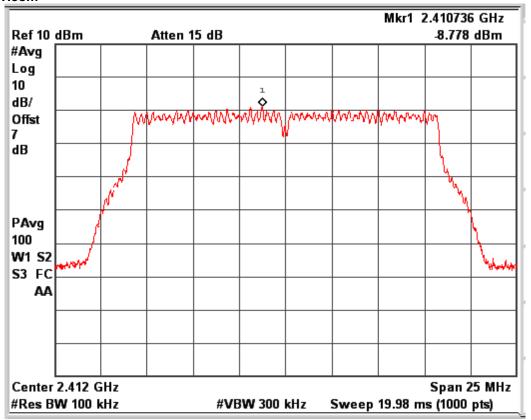


Data rate: 11 Mbps Channel Frequency: 2462 MHz

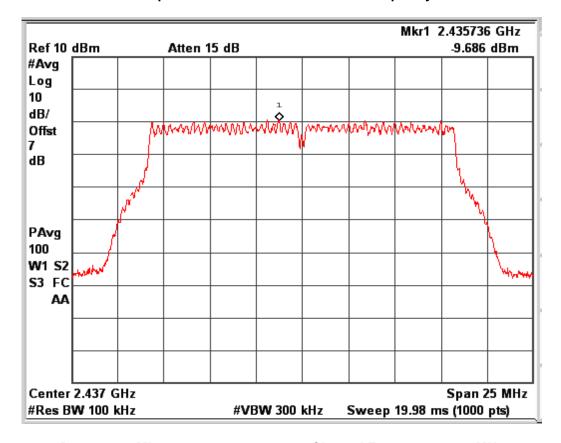
IEEE802.11g					
Data Rate (Mbps)	Channel Frequency (MHz)	Total PSD (dBm)	Measure & Add 10*log(2)	Total PSD (dBm)	Limit (dBm)
	2412	-8.778	3.01	-5.768	8
6	2437	-9.686	3.01	-6.676	8
	2462	-7.873	3.01	-4.863	8
	2412	-7.312	3.01	-4.302	8
24	2437	-7.173	3.01	-4.163	8
	2462	-7.08	3.01	-4.07	8
54	2412	-4.985	3.01	-1.975	8
	2437	-5.15	3.01	-2.14	8
	2462	-5.202	3.01	-2.192	8

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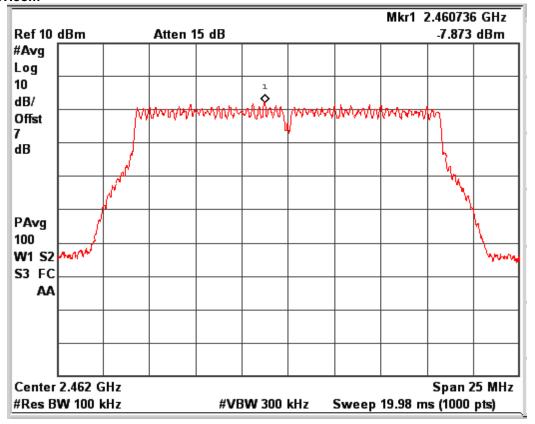
Data rate: 6 Mbps Channel Frequency: 2412 MHz



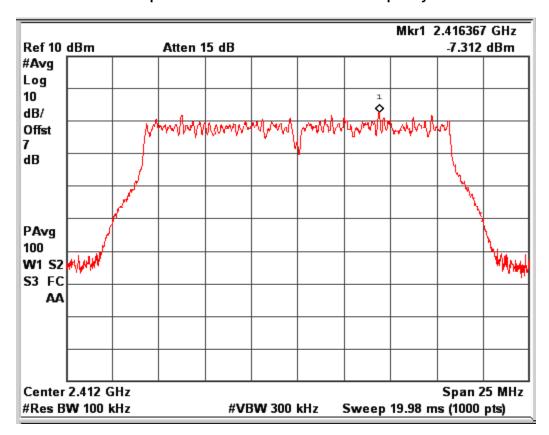
Data rate: 6 Mbps Channel Frequency: 2437 MHz

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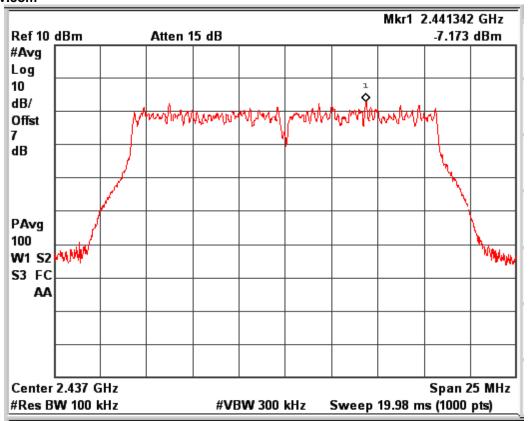
Data rate: 6 Mbps Channel Frequency: 2462 MHz



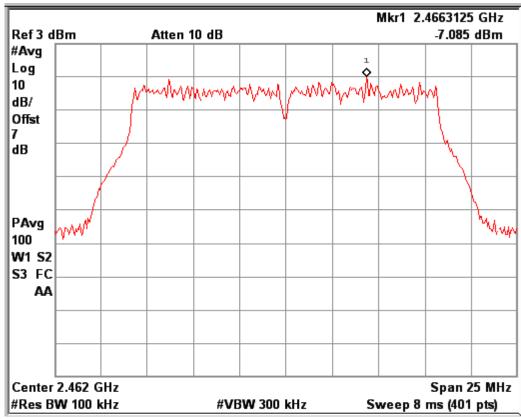
Data rate: 24 Mbps Channel Frequency: 2412 MHz

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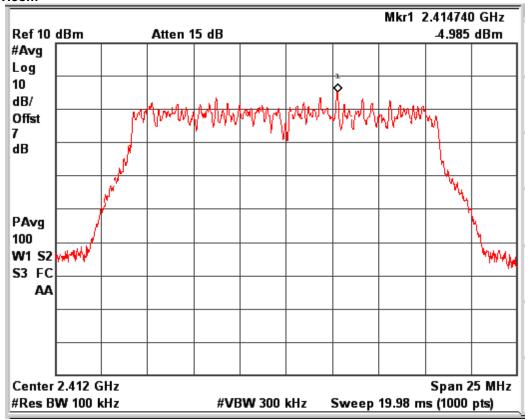
Data rate: 24 Mbps Channel Frequency: 2437 MHz



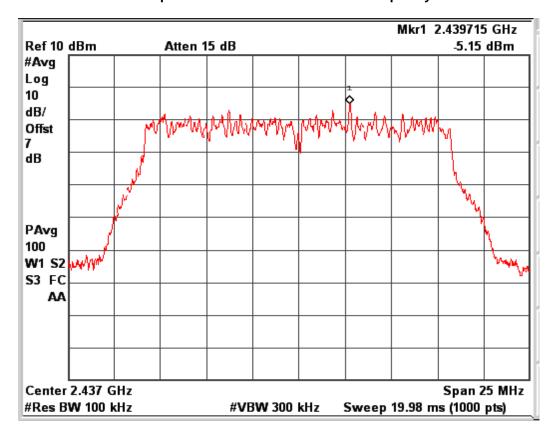
Data rate: 24 Mbps Channel Frequency: 2462 MHz

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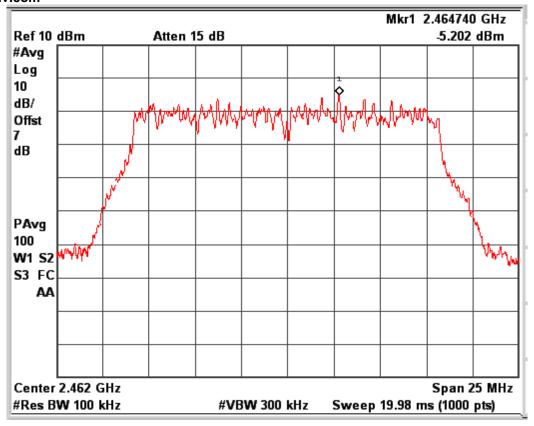
Data rate: 54 Mbps Channel Frequency: 2412 MHz



Data rate: 54 Mbps Channel Frequency: 2437 MHz

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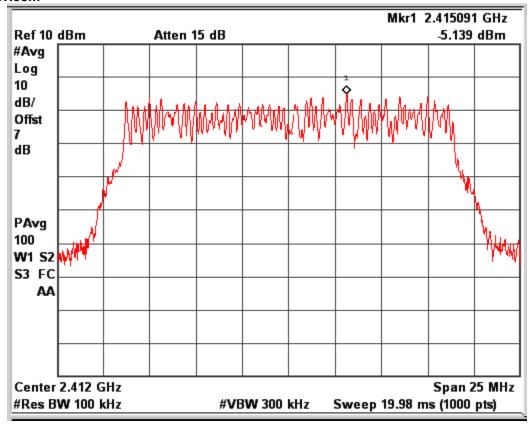


Data rate: 54 Mbps Channel Frequency: 2462 MHz

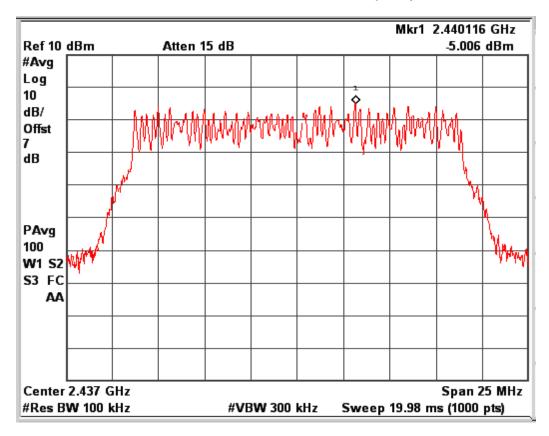
IEEE802.11nHT20					
Data Rate (Mbps)	Channel Frequency (MHz)	Total PSD (dBm)	Measure & Add 10*log(2)	Total PSD (dBm)	Limit (dBm)
	2412	-5.13	3.01	-2.129	8
MCS0	2437	-5.00	3.01	-1.996	8
	2462	-4.82	3.01	-1.81	8
MCS7	2412	-4.99	3.01	-1.985	8
	2437	-5.00	3.01	-1.993	8
	2462	-4.86	3.01	-1.856	8
	2412	-5.46	3.01	-2.455	8
MCS15	2437	-4.82	3.01	-1.815	8
	2462	-4.79	3.01	-1.786	8

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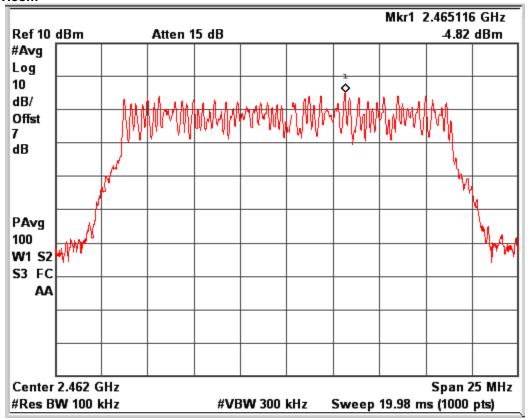
Data rate: MCS0 Channel Frequency: 2412 MHz



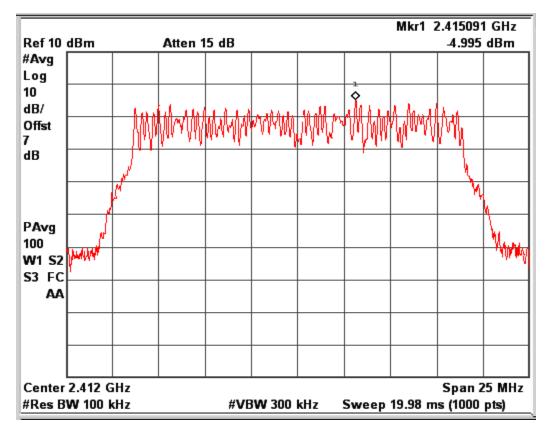
Data rate: MCS0 Channel Frequency: 2437 MHz

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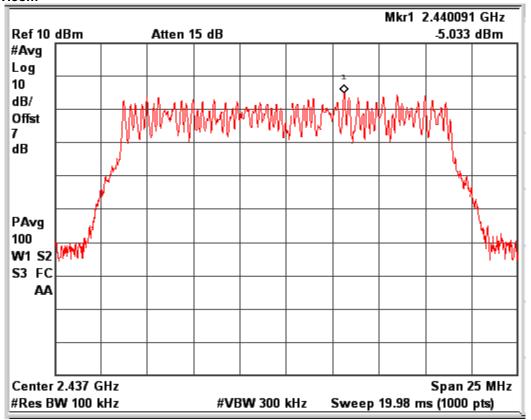
Data rate: MCS0 Channel Frequency: 2462 MHz



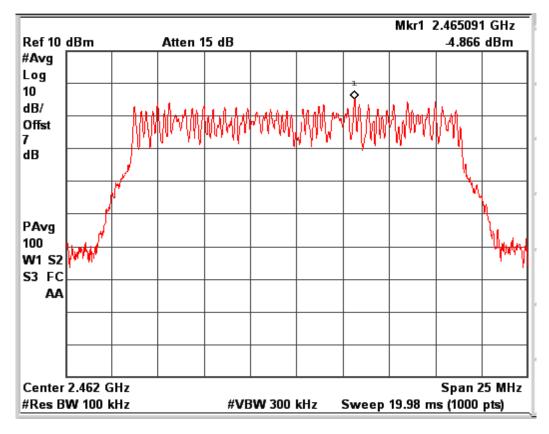
Data rate: MCS7 Channel Frequency: 2412 MHz

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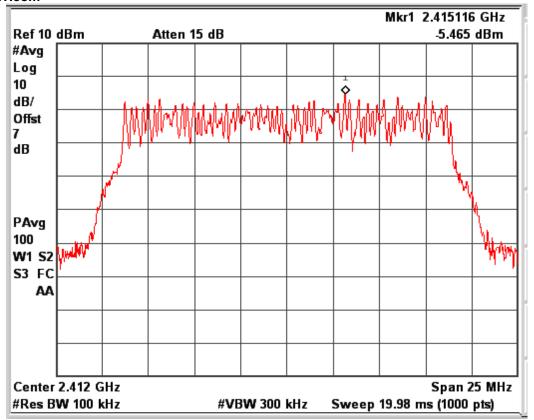
Data rate: MCS7 Channel Frequency: 2437 MHz



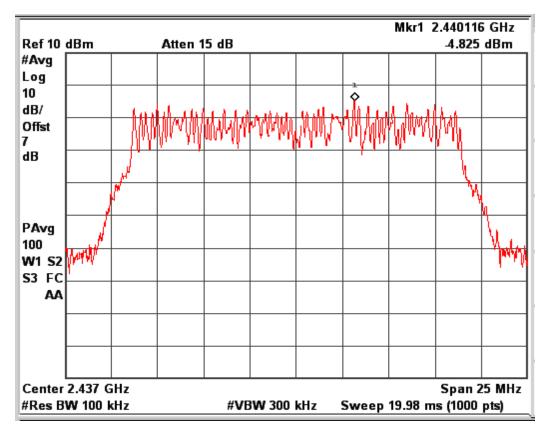
Data rate: MCS7 Channel Frequency: 2462 MHz

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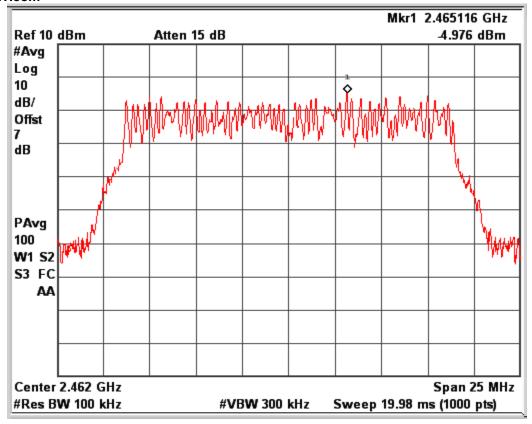
Data rate: MCS15 Channel Frequency: 2412 MHz



Data rate: MCS15 Channel Frequency: 2437 MHz

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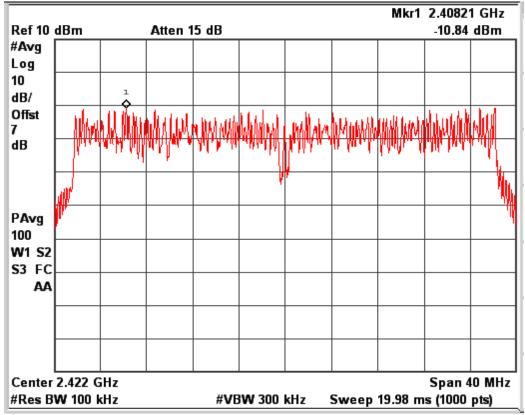


Data rate: MCS15 Channel Frequency: 2462 MHz

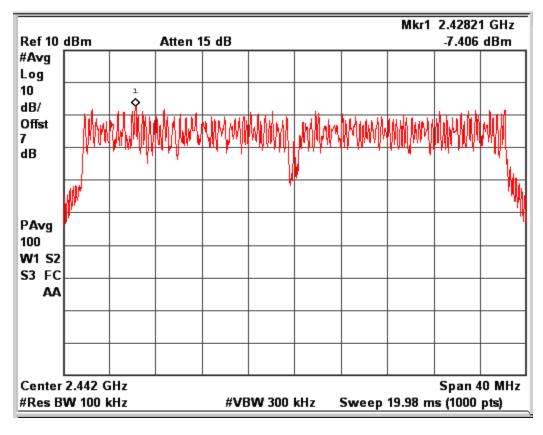
IEEE802.11nHT40					
Data Rate (Mbps)	Channel Frequency (MHz)	Total PSD (dBm)	Measure & Add 10*log(2)	Total PSD (dBm)	Limit (dBm)
	2422	-10.84	3.01	-7.83	8
MCS0	2442	-7.406	3.01	-4.396	8
	2457	-10.28	3.01	-7.27	8
	2422	-9.944	3.01	-6.934	8
MCS7	2442	-6.795	3.01	-3.785	8
	2457	-9.057	3.01	-6.047	8
	2422	-8.061	3.01	-5.051	8
MCS15	2442	-5.467	3.01	-2.457	8
	2457	-12.63	3.01	-9.62	8

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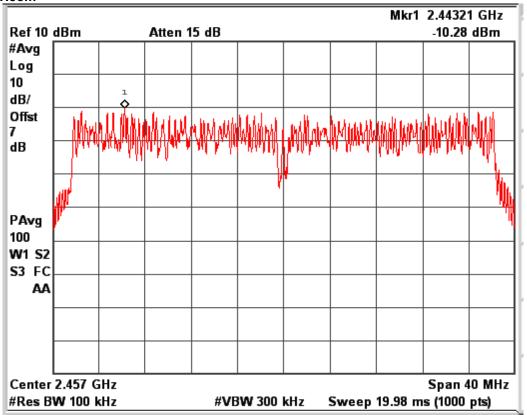
Data rate: MCS0 Channel Frequency: 2422 MHz



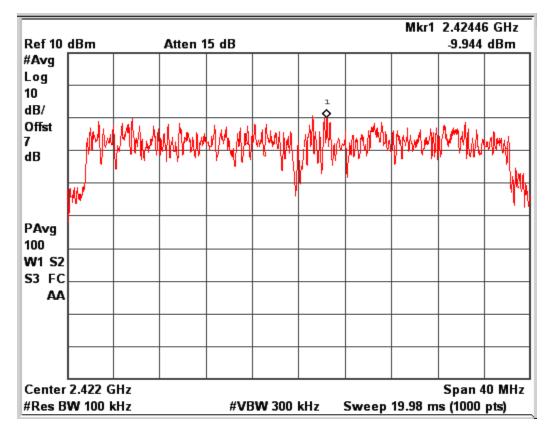
Data rate: MCS0 Channel Frequency: 2442 MHz

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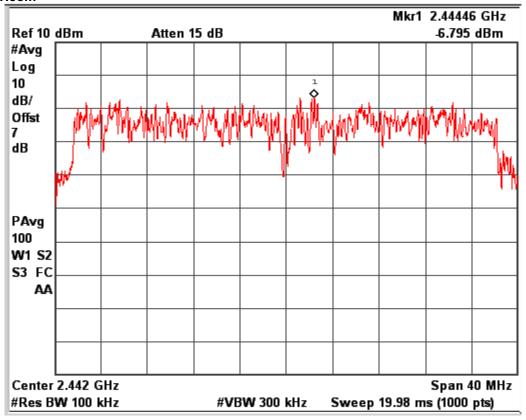
Data rate: MCS0 Channel Frequency: 2457 MHz



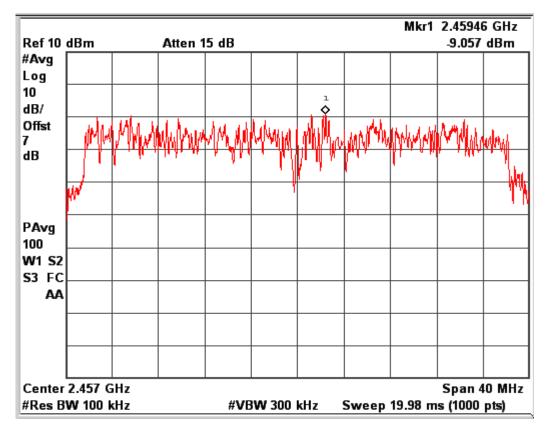
Data rate: MCS7 Channel Frequency: 2422 MHz

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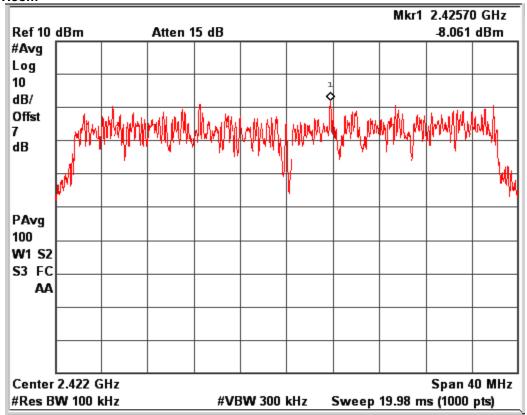
Data rate: MCS7 Channel Frequency: 2442 MHz



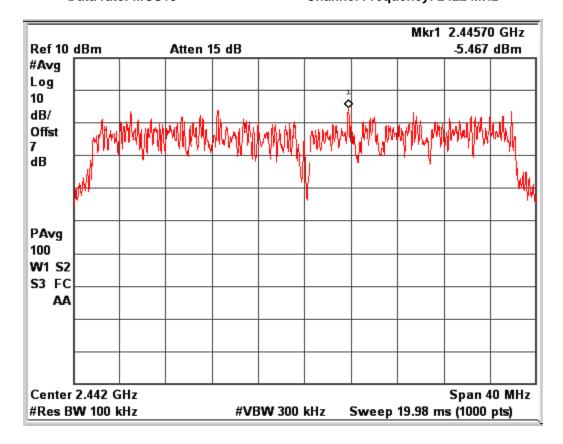
Data rate: MCS7 Channel Frequency: 2457 MHz

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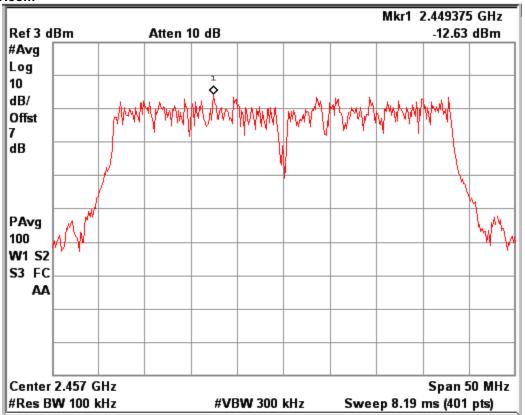
Data rate: MCS15 Channel Frequency: 2422 MHz



Data rate: MCS15 Channel Frequency: 2442 MHz

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Data rate: MCS15 Channel Frequency: 2457 MHz

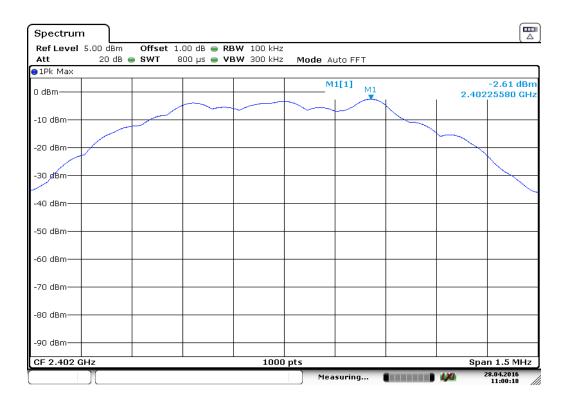
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Test Result: Bluetooth LE

Attenuator (0dB) + cable loss (1dB) = 1dB Considered in the test result

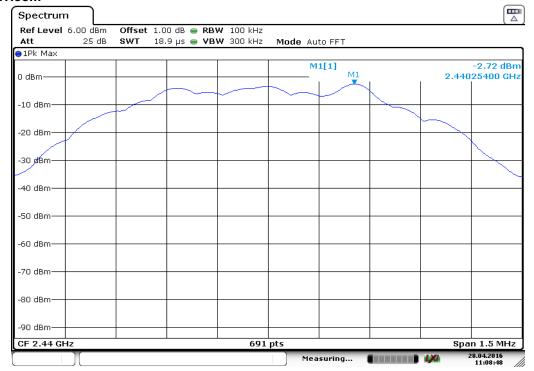
Channel Frequency (MHz)	Total PSD (dBm)	Limit (dBm)
2402	-2.61	8.00
2437	-2.72	8.00
2480	-3.05	8.00



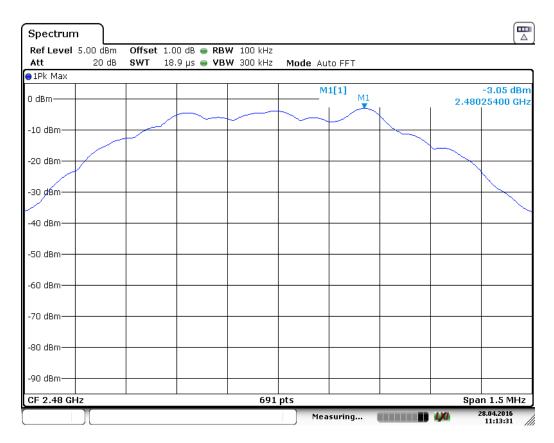
Channel Frequency: 2402 MHz

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Channel Frequency: 2440 MHz



Channel Frequency: 2480 MHz

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DTS Bandwidth

Result

Section 15.247(a) (2)

Pass

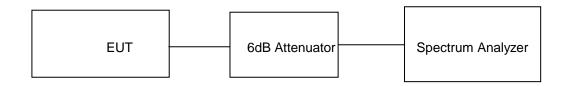
Test Specification FCC Part 15 Section 15.247 (a) (2)

Detector Function Peak

Requirement The minimum 6 dB bandwidth shall be at least 500

kHz/0.5MHz.

Test Method:



Test Result:

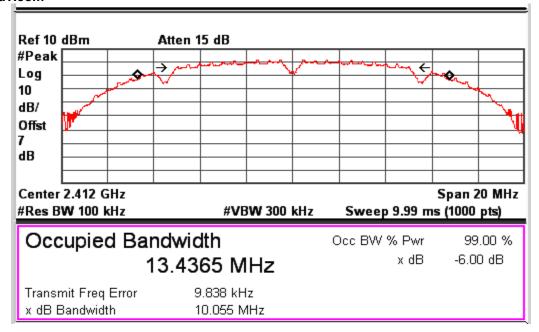
Attenuator (6dB) + cable loss (1dB) = 7dB Considered in the test result

IEEE802.11b					
Data Rate (Mbps)	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	99% OBW (MHz)		
	2412	10.05	13.43		
1	2437	10.04	13.43		
	2462	10.06	13.45		
	2412	9.96	13.34		
11	2437	9.95	13.34		
	2462	9.94	13.34		

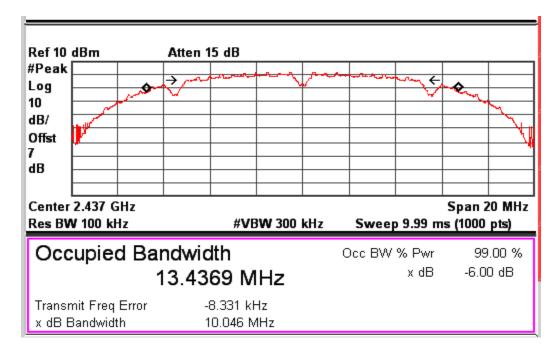
Note: Worst case results are reported

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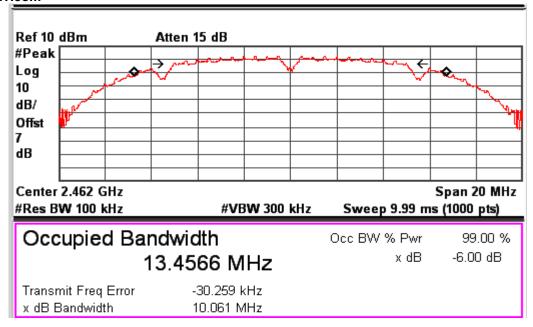
Data Rate: 1 Mbps Channel frequency: 2412 MHz



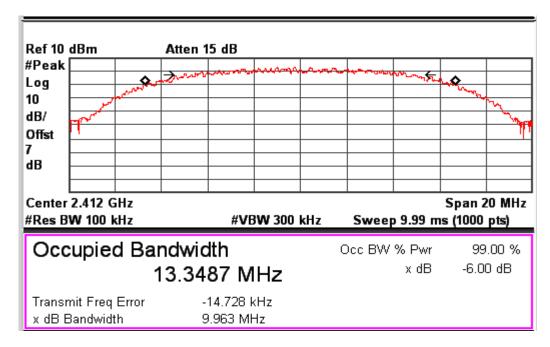
Data Rate: 1 Mbps Channel frequency: 2437 MHz

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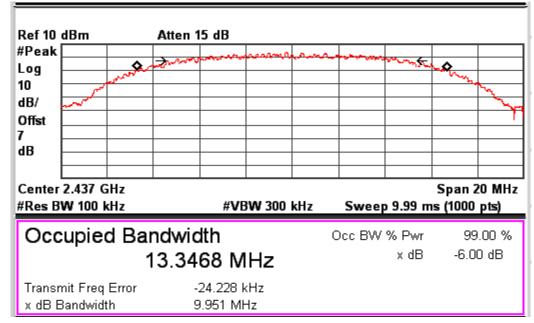
Data Rate: 1 Mbps Channel frequency: 2462 MHz



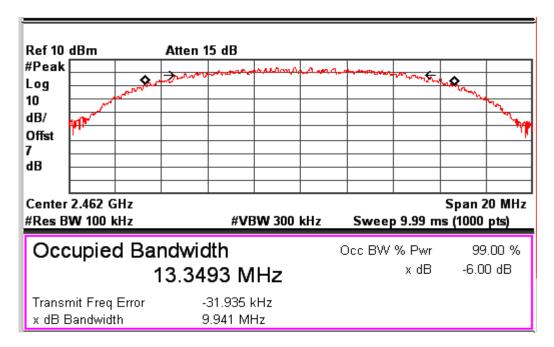
Data Rate: 11 Mbps Channel frequencies: 2412 MHz

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Data Rate: 11 Mbps Channel frequency: 2437 MHz

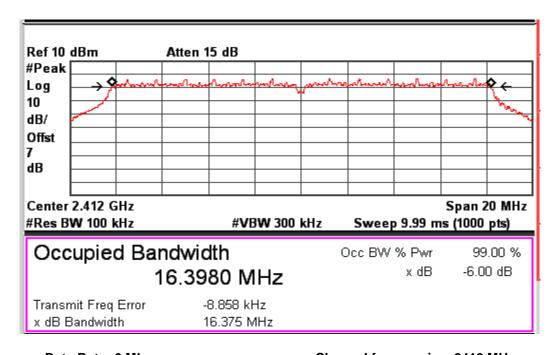


Data Rate: 11 Mbps Channel frequency: 2462 MHz

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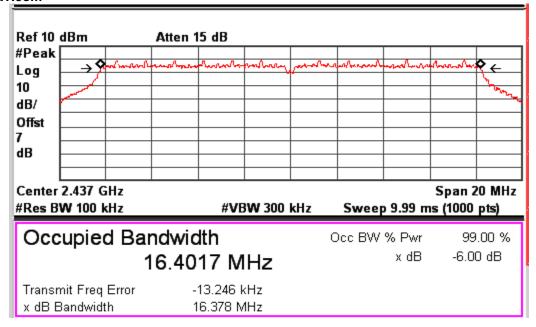
IEEE802.11g					
Data Rate (Mbps)	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	99% OBW (MHz)		
	2412	16.37	16.39		
6	2437	16.37	16.4		
	2462	16.37	16.4		
	2412	16.44	16.4		
24	2437	16.45	16.4		
	2462	16.47	16.41		
	2412	16.48	16.42		
54	2437	16.46	16.42		
	2462	16.47	16.41		



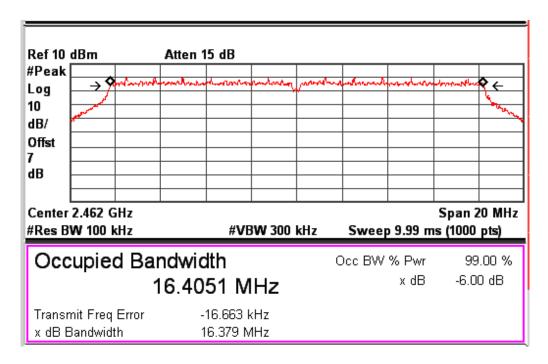
Data Rate: 6 Mbps Channel frequencies: 2412 MHz

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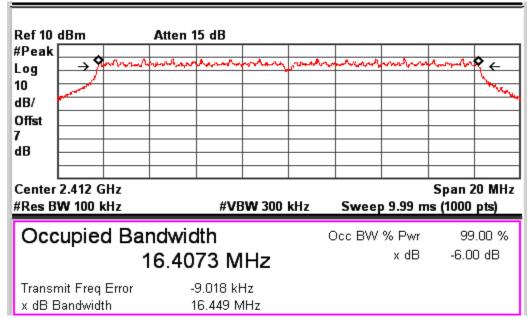
Data Rate: 6 Mbps Channel frequencies: 2437 MHz



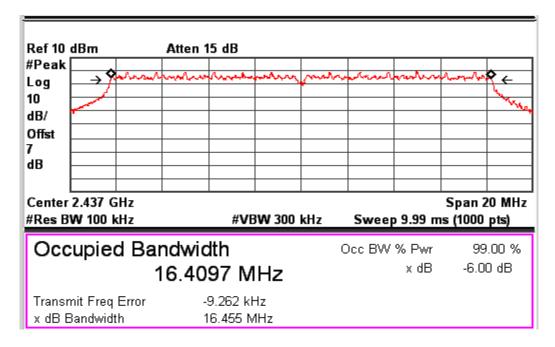
Data Rate: 6 Mbps Channel frequencies: 2462 MHz

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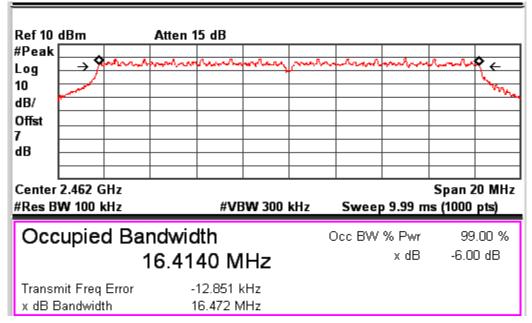
Data Rate: 24 Mbps Channel frequencies: 2412 MHz



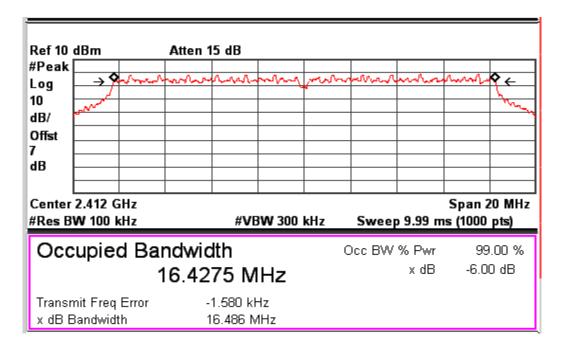
Data Rate: 24 Mbps Channel frequencies: 2437 MHz

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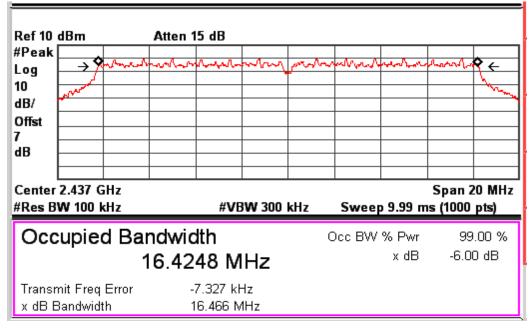
Data Rate: 24 Mbps Channel frequencies: 2462 MHz



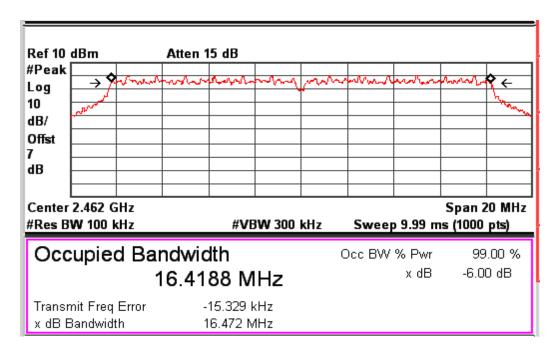
Data Rate: 54 Mbps Channel frequencies: 2412 MHz

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Data Rate: 54 Mbps Channel frequencies: 2437MHz

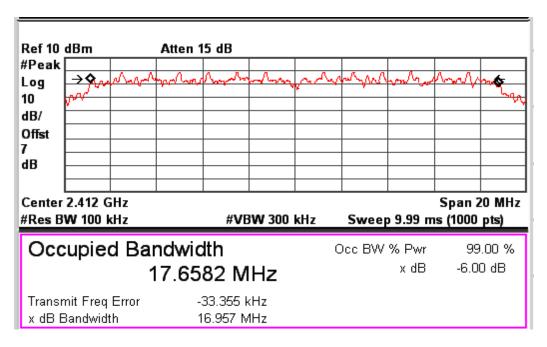


Data Rate: 54 Mbps Channel frequencies: 2472 MHz

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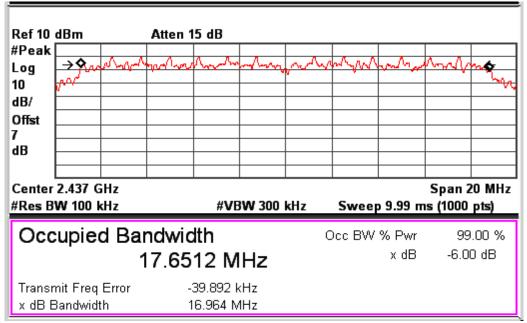
IEEE802.11nHT20					
Data Rate (Mbps)	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	99% OBW (MHz)		
	2412	16.95	17.65		
MCS0	2437	16.96	17.64		
	2462	16.95	17.64		
	2412	16.95	17.65		
MCS7	2437	16.95	17.65		
	2462	16.94	17.65		
	2412	17.40	17.64		
MCS15	2437	16.94	17.64		
	2462	16.95	17.63		



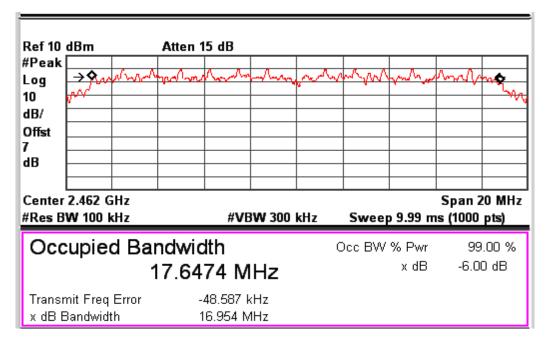
Data Rate: MCS0 Channel: 2412 MHz

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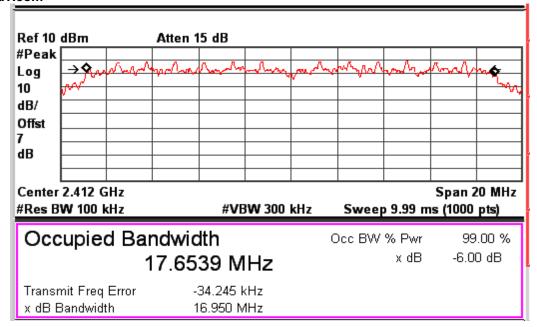
Data Rate: MCS0 Channel: 2437 MHz



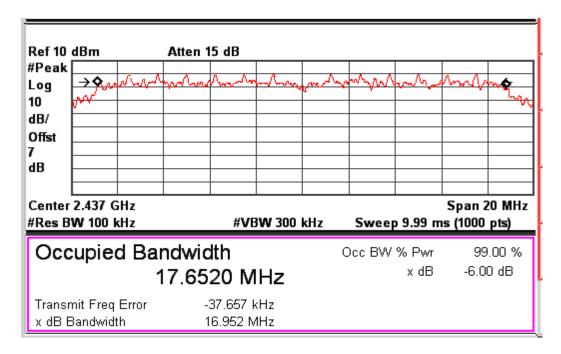
Data Rate: MCS0 Channel: 2462 MHz

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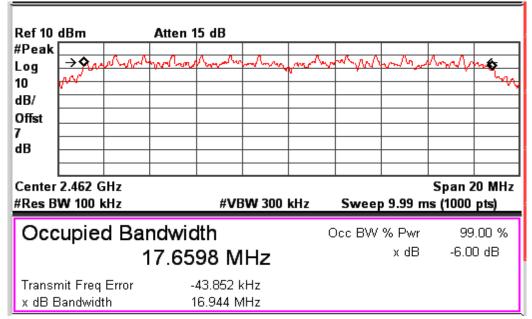
Data Rate: MCS7 Channel: 2412 MHz



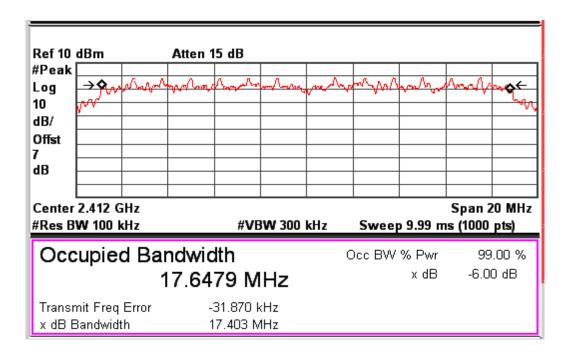
Data Rate: MCS7 Channel: 2437 MHz

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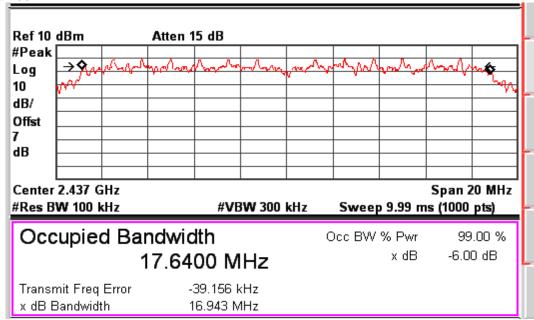
Data Rate: MCS7 Channel: 2462 MHz



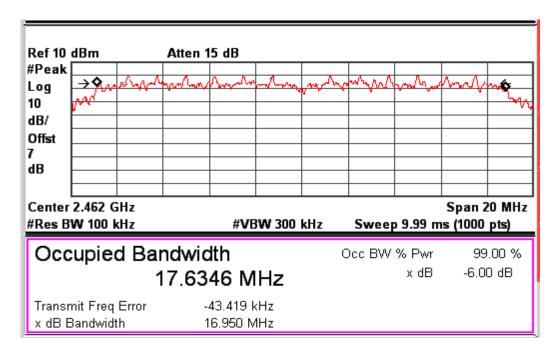
Data Rate: MCS15 Channel: 2412 MHz

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Data Rate: MCS15 Channel: 2437MHz

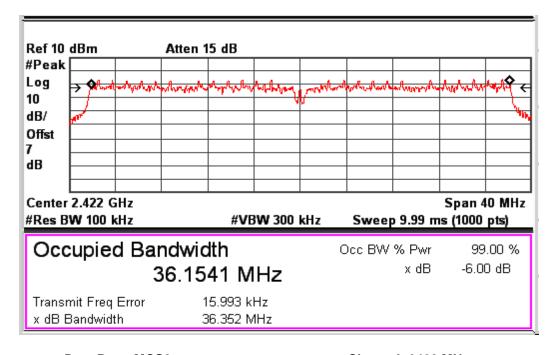


Data Rate: MCS15 Channel: 2462 MHz

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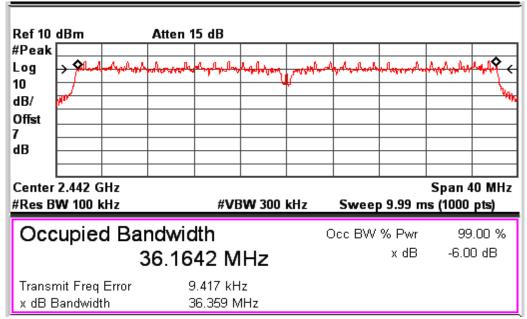
IEEE802.11nHT40					
Data Rate (Mbps)	Channel Frequency (MHz)	6 dB Bandwidth (MHz)	99% OBW (MHz)		
	2422	36.35	36.15		
MCS0	2442	36.35	36.16		
	2457	36.32	36.18		
	2422	36.32	36.18		
MCS7	2442	36.33	36.18		
	2457	36.37	36.19		
	2422	35.80	36.14		
MCS15	2442	35.80	36.14		
	2457	35.80	36.14		



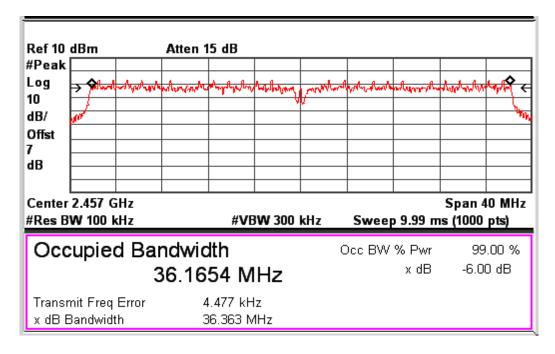
Data Rate: MCS0 Channel: 2422 MHz

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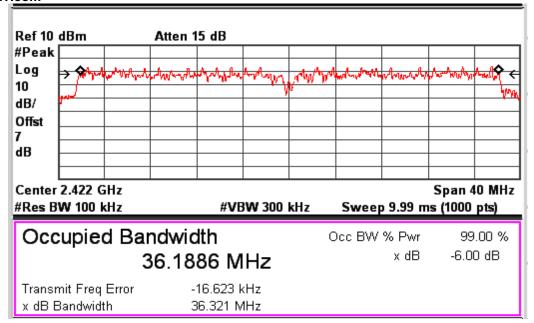
Data Rate: MCS0 Channel: 2442 MHz



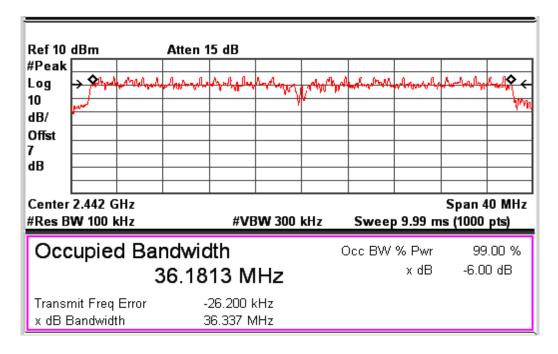
Data Rate: MCS0 Channel: 2457 MHz

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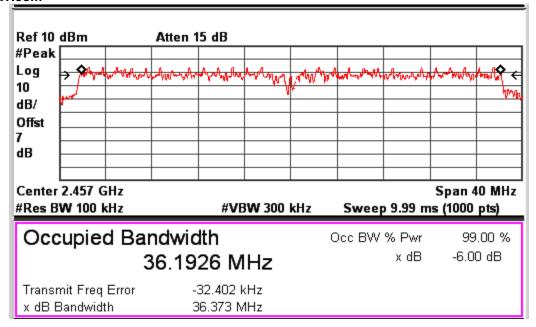
Data Rate: MCS7 Channel: 2422 MHz



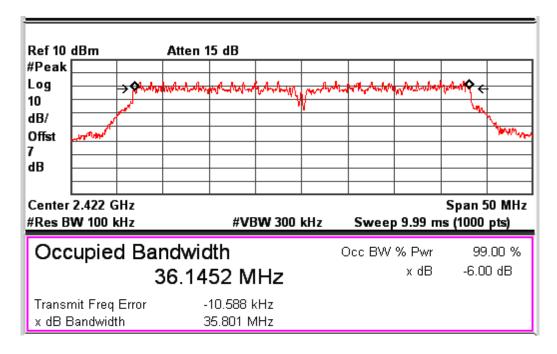
Data Rate: MCS7 Channel: 2442 MHz

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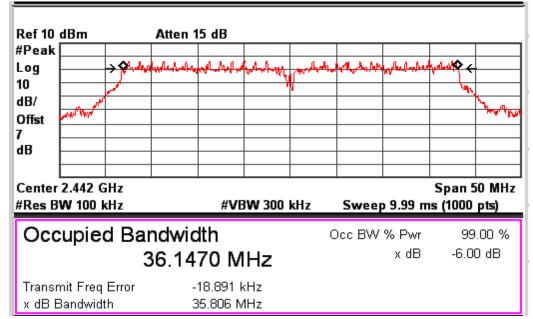
Data Rate: MCS7 Channel: 2457 MHz



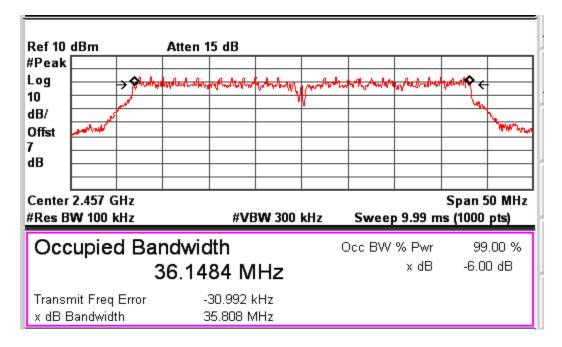
Data Rate: MCS15 Channel: 2422 MHz

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Data Rate: MCS15 Channel: 2442MHz



Data Rate: MCS15 Channel: 2457 MHz

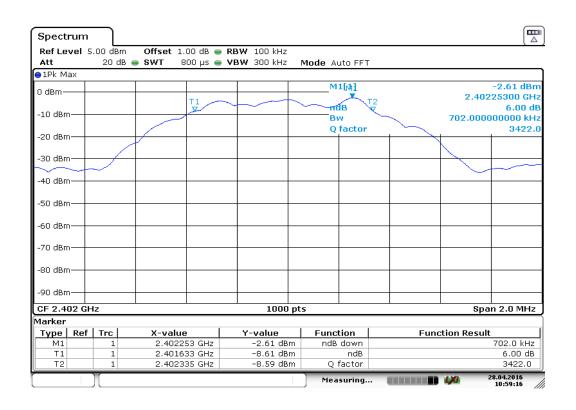
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Test Result: Bluetooth LE

Attenuator (6dB) + cable loss (1dB) = 7dB Considered in the test result

Channel Frequency (MHz)	6 dB Bandwidth (kHz)	99% OBW (MHz)
2402	702.0	1.05
2440	701.2	1.05
2480	701.2	1.05

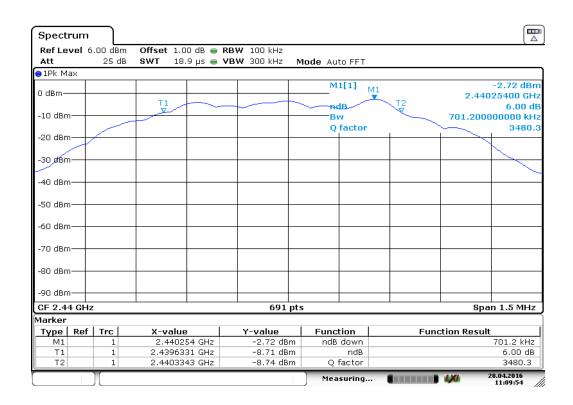


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Channel Frequency: 2402 MHz

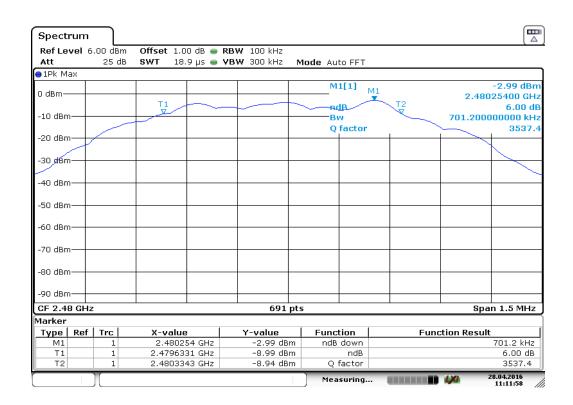


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Channel Frequency: 2440 MHz



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Channel Frequency: 2480 MHz

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Emissions in non-restricted frequency bands Result

Section 15.247(d) Pass

Test Specification Detector Function FCC Part 15 Section 15.247(d)

r Function Pe

Requirement In any 100kHz bandwidth outside the frequency band in which the spread

spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance

with the peak conducted power limits.

Test Method:



Test Result: Wi-Fi

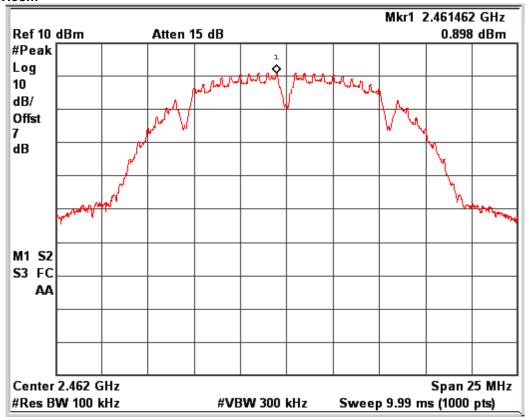
Attenuator (6dB) + cable loss (1dB) = 7dB Considered in the test result

Test Results for Path A

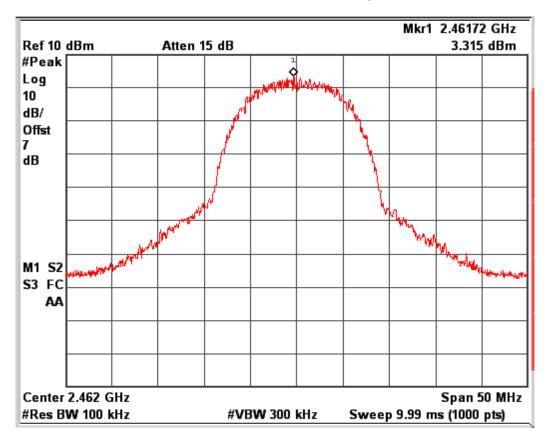
IEEE802.11b								
Data Rate (Mbps)	Channel	Value at Band Edge		Reference	Band Edge	Limit		
	Frequency (MHz)	Frequency (MHz)	Value A (dBm)	Value B (dBm)		(dBc)		
4	2412	2400	-42.92	0.89	43.81	30		
1	2462	2483.5	-57.01	0.89	57.9	30		
11	2412	2400	-40.69	3.31	44.00	30		
	2462	2483.5	-56.6	3.31	59.91	30		

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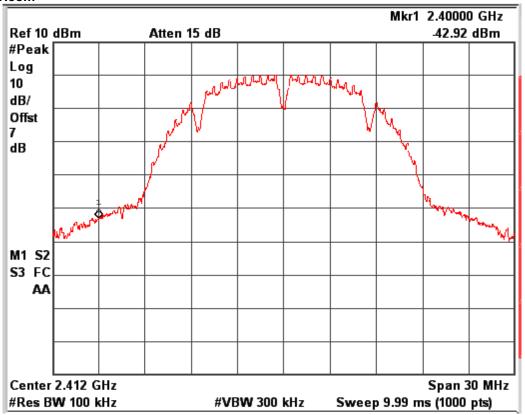
Reference Level Plot: 1Mbps



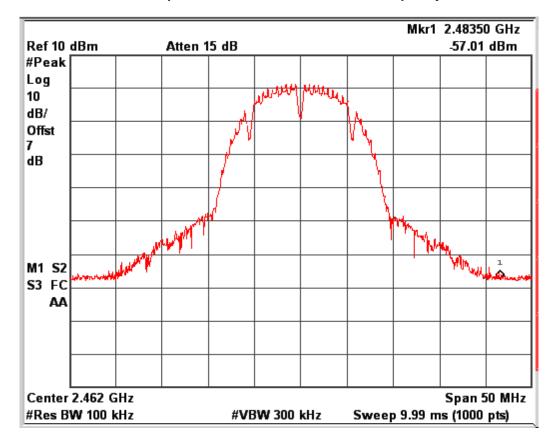
Reference Level Plot: 11Mbps

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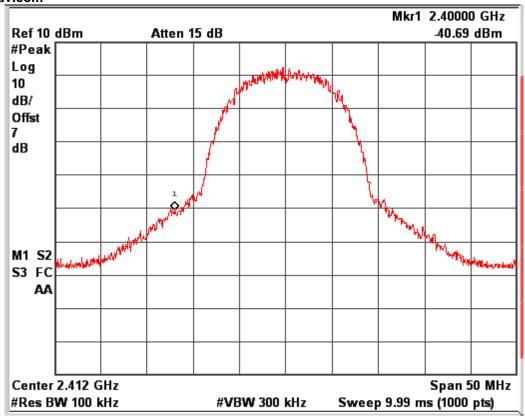
Data Rate: 1 Mbps Channel frequency: 2412 MHz



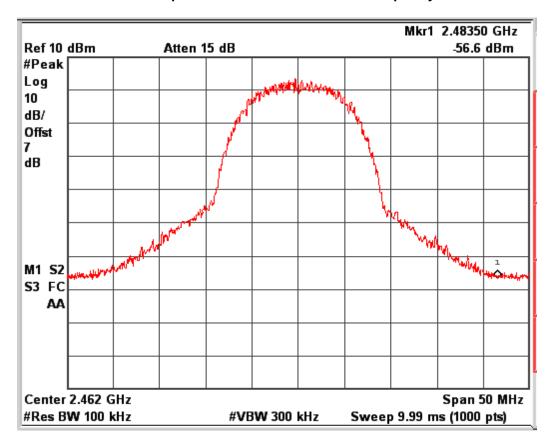
Data Rate: 1 Mbps Channel frequency: 2462 MHz

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Data Rate: 11 Mbps Channel frequency: 2412 MHz

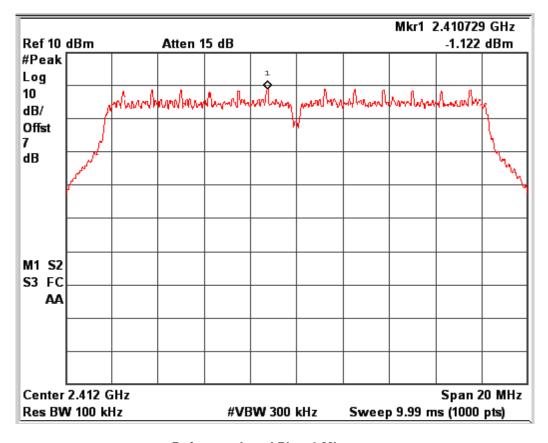


Data Rate: 11 Mbps Channel frequency: 2462 MHz

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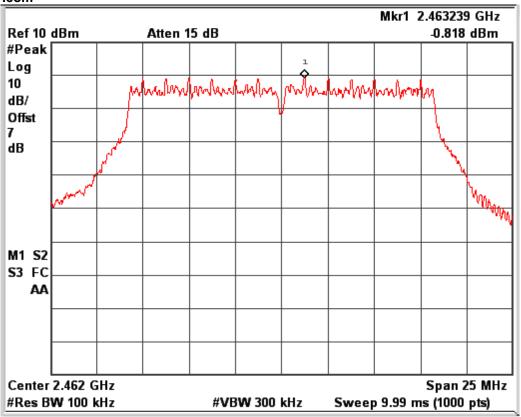
IEEE802.11g								
Data Rate	Channel Frequency (MHz)	Value at Band Edge		Reference	Band Edge	Limit		
(Mbps)		Frequency (MHz)	Value A (dBm)	Value B (dBm)	Value A~B (dBc)	(dBc)		
6	2412	2400	-39.39	-1.12	38.27	30		
0	2462	2483.5	-53.15	-1.12	52.03	30		
24	2412	2400	-38.99	-0.81	38.18	30		
24	2462	2483.5	-54.03	-0.81	53.22	30		
54	2412	2400	-43.74	-0.61	43.13	30		
	2462	2483.5	-53.28	-0.61	52.67	30		



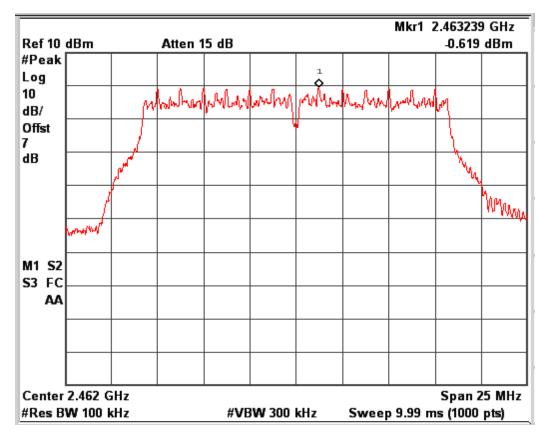
Reference Level Plot: 6 Mbps

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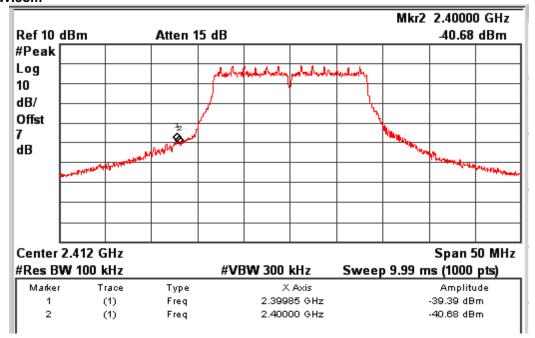
Reference Level Plot: 24 Mbps



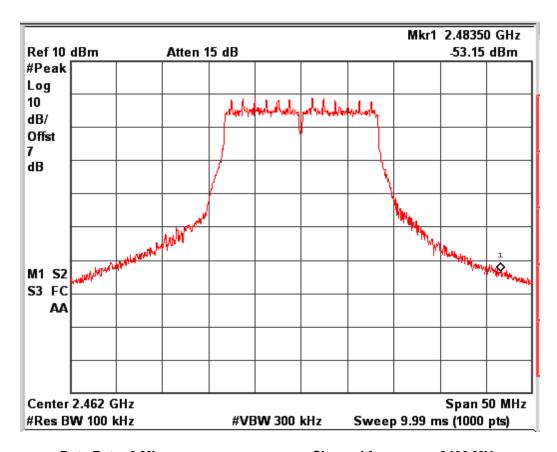
Reference Level Plot: 54 Mbps

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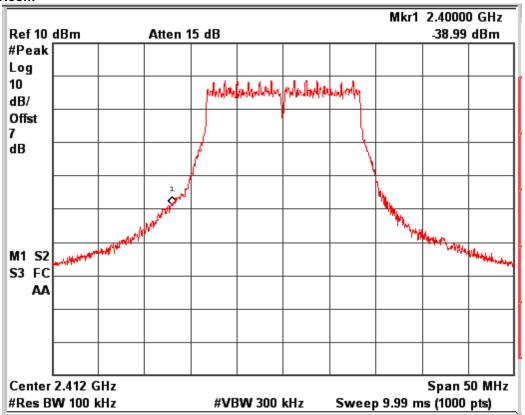
Data Rate: 6 Mbps Channel frequency: 2412 MHz



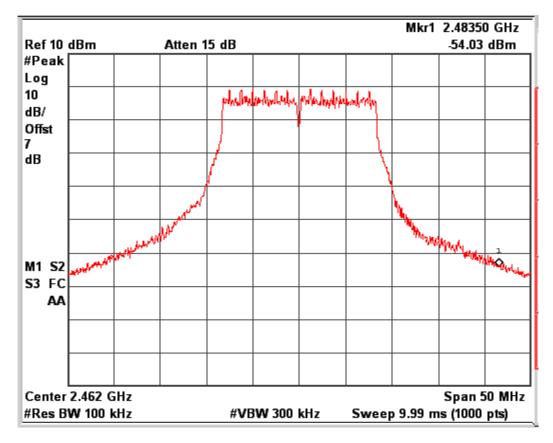
Data Rate: 6 Mbps Channel frequency: 2462 MHz

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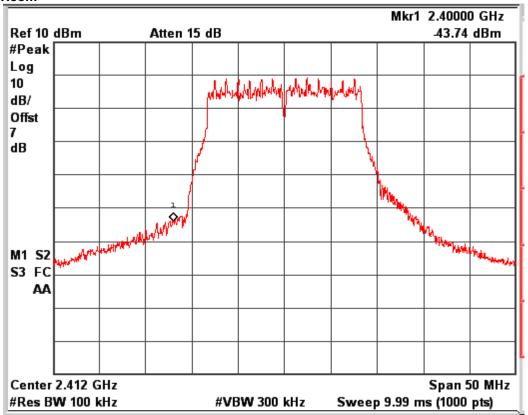
Data Rate: 24 Mbps Channel frequency: 2412 MHz



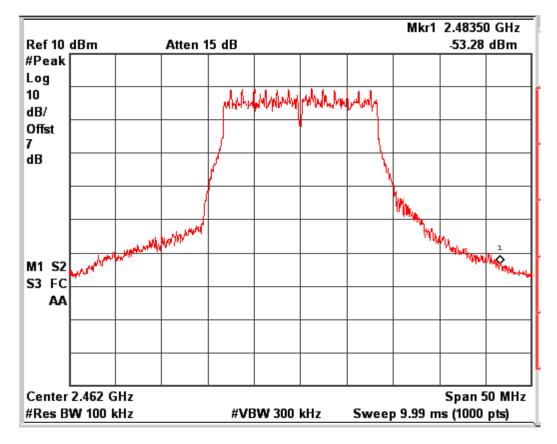
Data Rate: 24 Mbps Channel frequency: 2462 MHz

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Data Rate: 54 Mbps Channel frequency: 2412 MHz

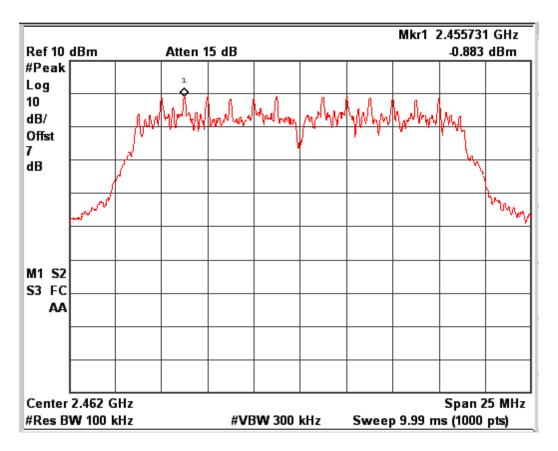


Data Rate: 54 Mbps Channel frequency: 2462 MHz

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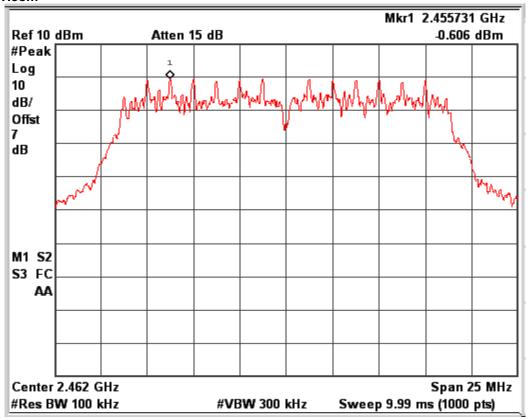
IEEE802.11nHT20									
Data Rate (Mbps)	Channel	Value at Band Edge		Reference	Band	Limit			
	Frequency (MHz)	Frequency (MHz)	Value A (dBm)	Value B (dBm)	Edge Value A~B (dBc)	(dBc)			
MCSO	2412	2400	-37.74	-0.88	36.86	30			
MCS0	2462	2483.5	-51.78	-0.88	50.9	30			
MCS7	2412	2400	-37.86	-0.6	37.26	30			
MCS7	2462	2483.5	-50.43	-0.6	49.83	30			
MCS15	2412	2400	-37.45	-0.68	36.77	30			
	2462	2483.5	-50.84	-0.68	50.16	30			



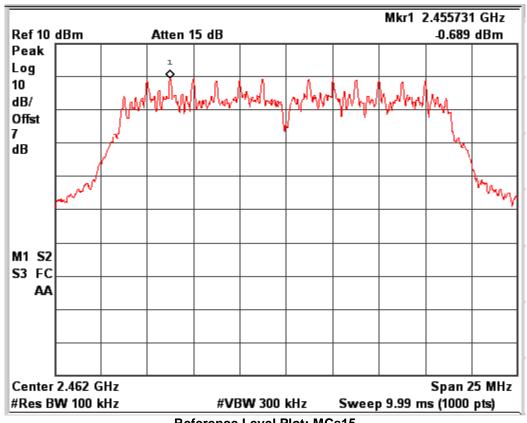
Reference Level Plot: MCS0

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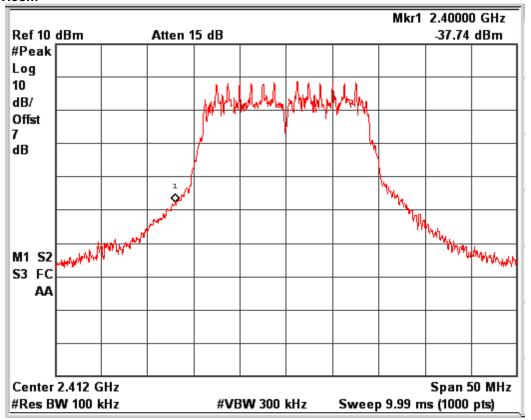
Reference Level Plot: MCS7



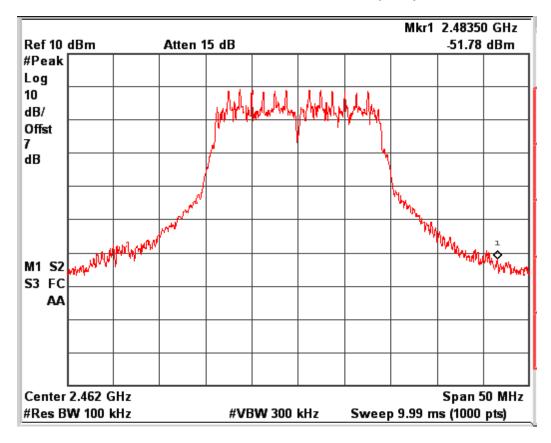
Reference Level Plot: MCs15

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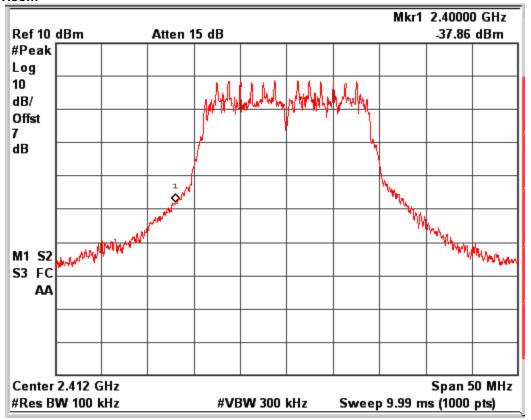
Data Rate: MCS0 Channel frequency: 2412 MHz



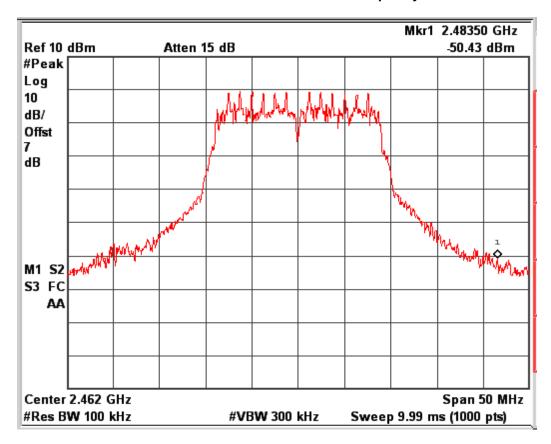
Data Rate: MCS0 Channel frequency: 2462 MHz

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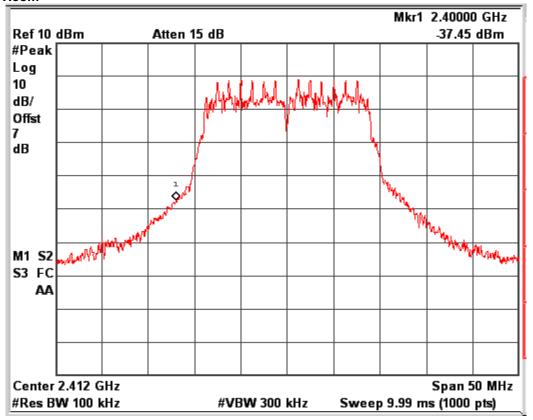
Data Rate: MCS7 Channel frequency: 2412 MHz



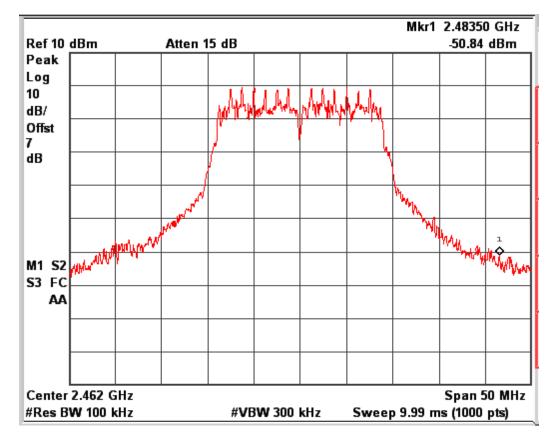
Data Rate: MCS7 Channel frequency: 2462 MHz

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Data Rate: MCS15 Channel frequency: 2412 MHz

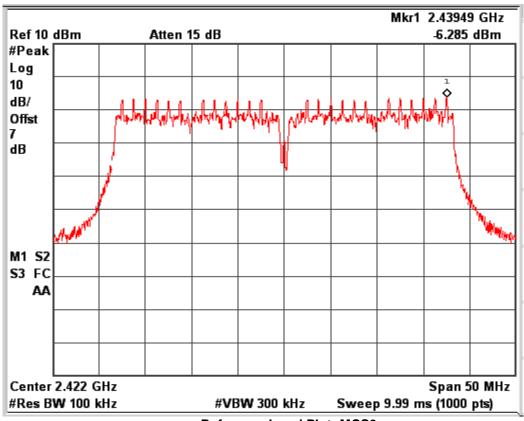


Data Rate: MCS715 Channel frequency: 2462 MHz

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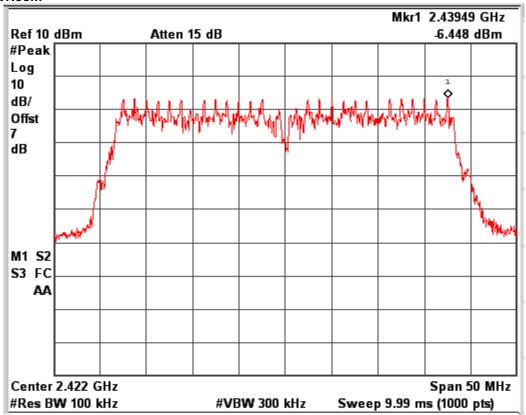
IEEE802.11nHT40								
Data	Channel Frequency (MHz)	Value at Band Edge		Reference	Band	Limit		
Rate (Mbps)		Frequency (MHz)	Value A (dBm)	Value B (dBm)	Edge Value A~B (dBc)	(dBc)		
MCS0	2422	2400	-46.93	-6.28	40.65	30		
IVICSU	2457	2483.5	-49.74	-6.28	43.46	30		
MCS7	2422	2400	-45.66	-6.44	39.22	30		
MCS7	2457	2483.5	-47.87	-6.44	41.43	30		
MCS15	2422	2400	-44.5	-6.33	38.17	30		
	2457	2483.5	-47.38	-6.33	41.05	30		



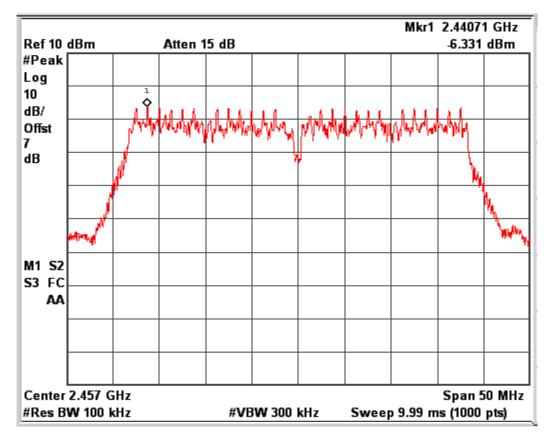
Reference Level Plot: MCS0

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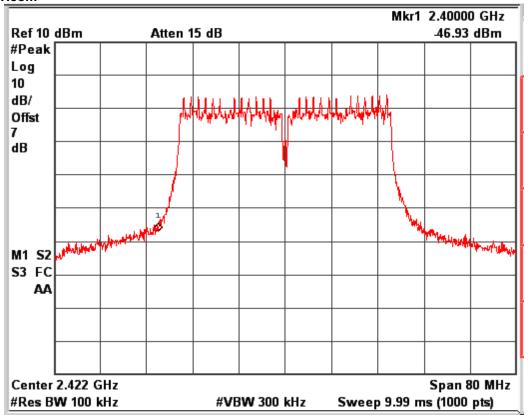
Reference Level Plot: MCS7



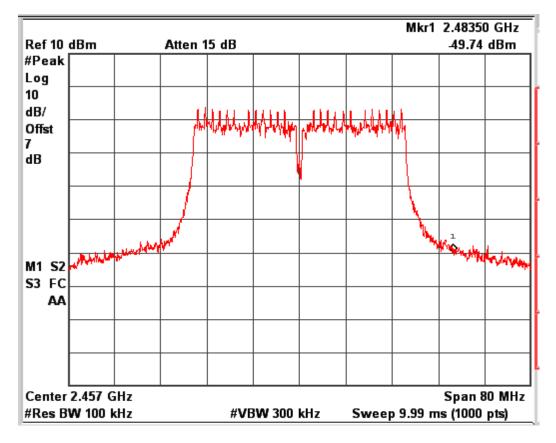
Reference Level Plot: MCS15

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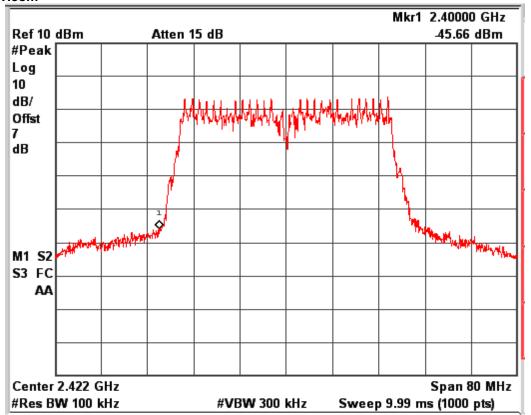
Data Rate: MCS0 Channel frequency: 2422 MHz



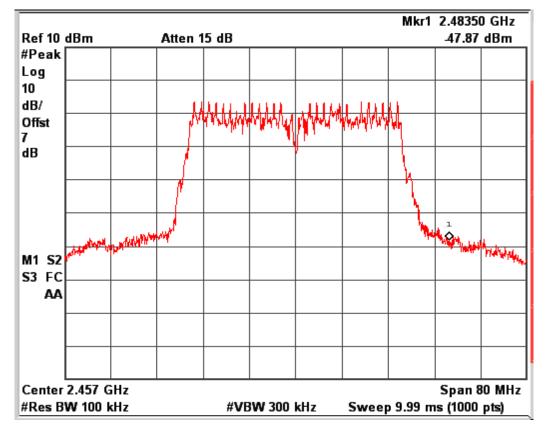
Data Rate: MCS0 Channel frequency: 2457 MHz

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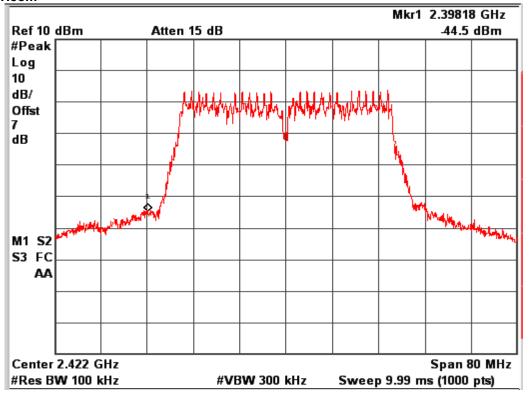
Data Rate: MCS7 Channel frequency: 2422 MHz



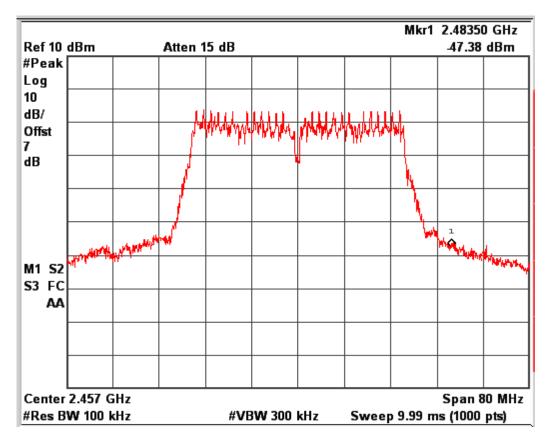
Data Rate: MCS7 Channel frequency: 2457 MHz

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Data Rate: MCS15 Channel frequency: 2422 MHz



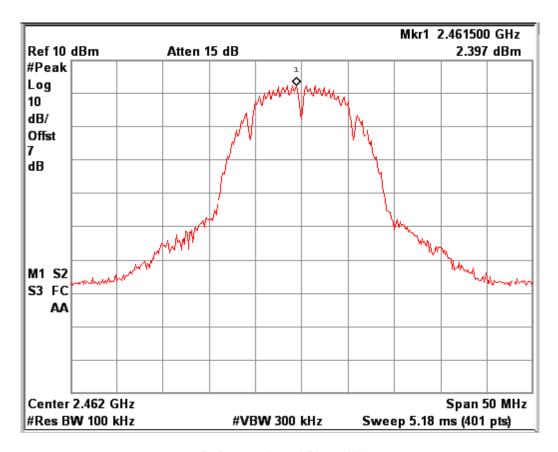
Data Rate: MCS15 Channel frequency: 2457 MHz

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Test Results for Path B

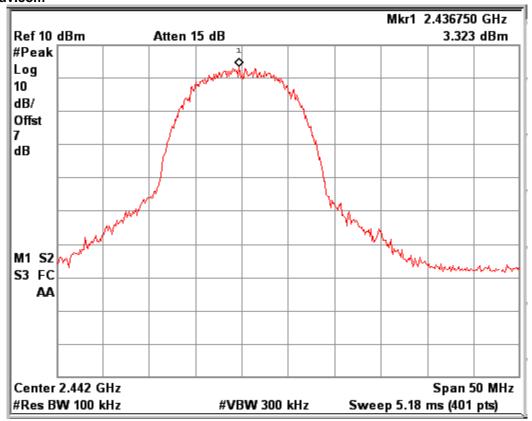
IEEE802.11b									
Data Rate (Mbps)	Channel	Value at Band Edge		Reference	Band Edge	Limit			
	Frequency (MHz)	Frequency (MHz)	Value A (dBm)	Value B (dBm)	Value A~B (dBc)	(dBc)			
4	2412	2400	-41.74	2.39	44.13	30			
1	2462	2483.5	-57.19	2.39	59.58	30			
11	2412	2400	-40.88	3.32	44.2	30			
	2462	2483.5	-56.91	3.32	60.23	30			



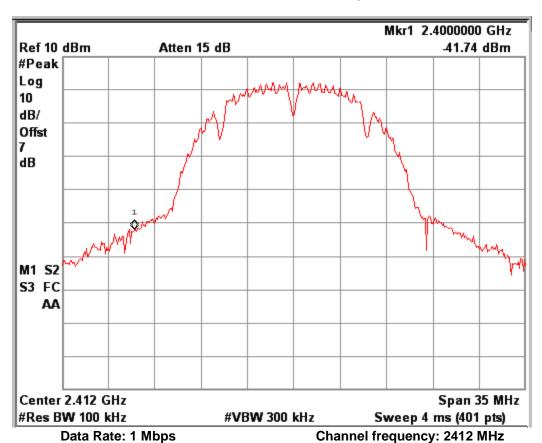
Reference Level Plot: 1Mbps

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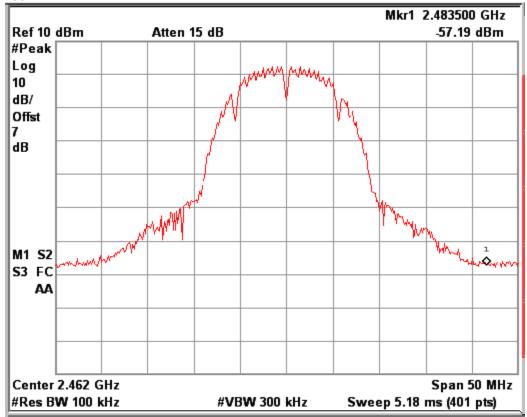


Reference Level Plot: 11Mbps

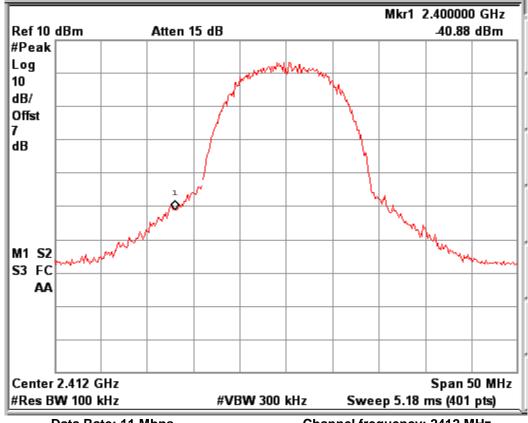


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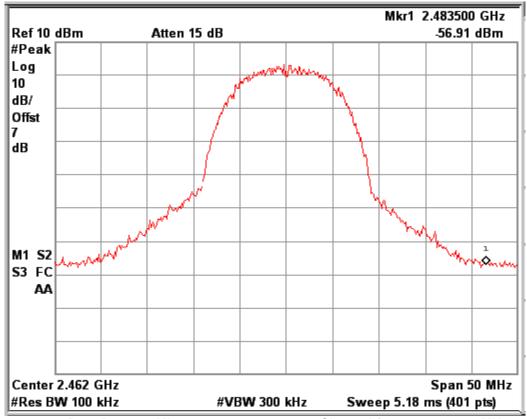
Data Rate: 1 Mbps Channel frequency: 2462 MHz



Data Rate: 11 Mbps Channel frequency: 2412 MHz

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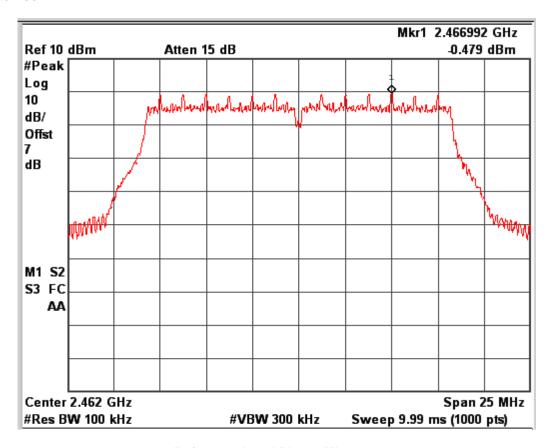


Data Rate: 11 Mbps Channel frequency: 2462 MHz

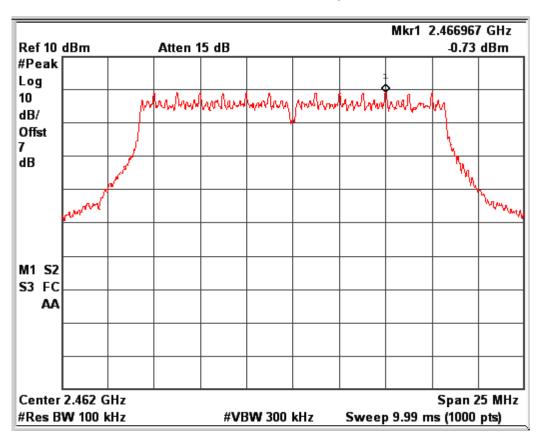
IEEE802.11g									
Data	Channel Frequency (MHz)	Value at Band Edge		Reference	Band Edge	Limit			
Rate (Mbps)		Frequency (MHz)	Value A (dBm)	Value B (dBm)	Value A~B (dBc)	(dBc)			
6	2412	2400	-40.57	-0.479	40.09	30			
0	2462	2483.5	-52.25	-0.479	51.77	30			
24	2412	2400	-40.51	-0.73	39.78	30			
24	2462	2483.5	-53.92	-0.73	53.19	30			
54	2412	2400	-38.42	-0.54	37.88	30			
	2462	2483.5	-54.31	-0.54	53.77	30			

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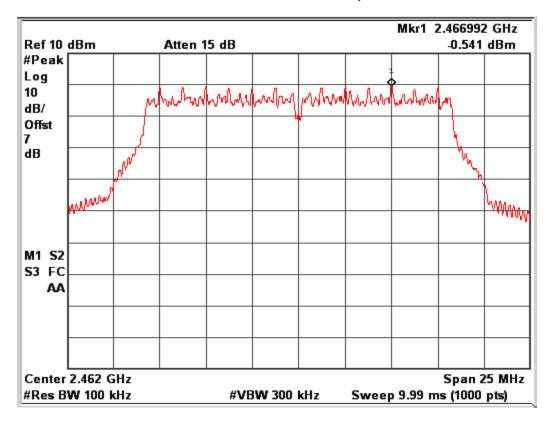
Reference Level Plot: 6 Mbps



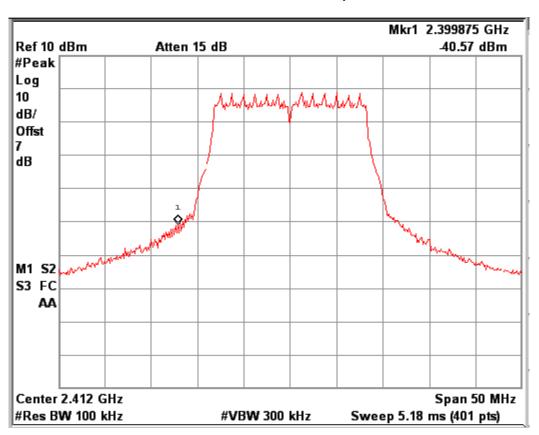
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Reference Level Plot: 24 Mbps



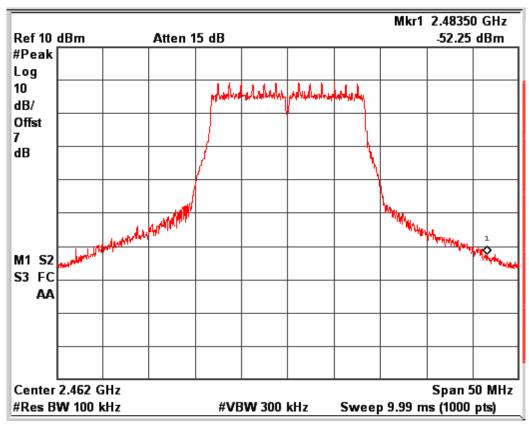
Reference Level Plot: 54 Mbps

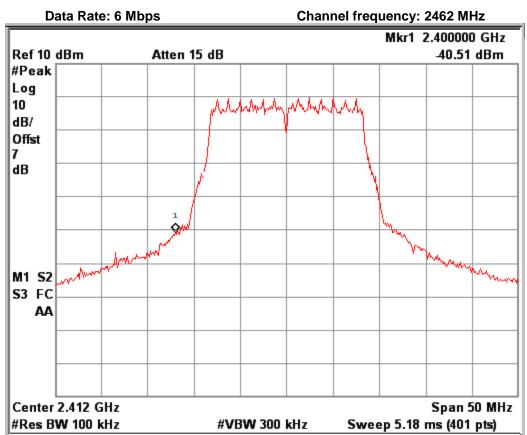


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Data Rate: 6 Mbps Channel frequency: 2412 MHz

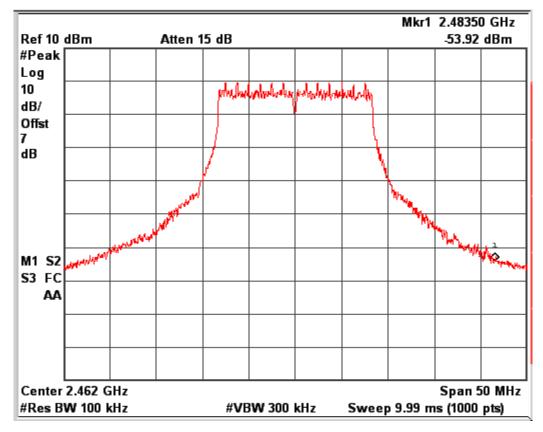


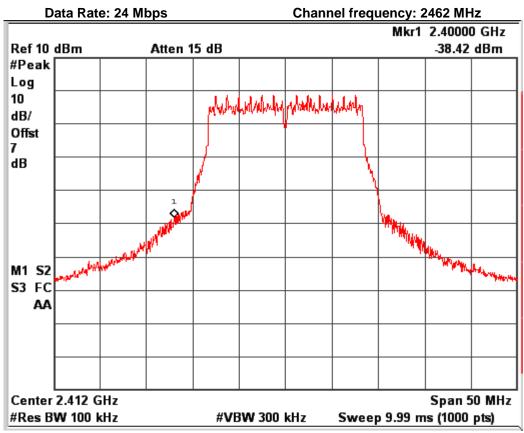


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Data Rate: 24 Mbps Channel frequency: 2412 MHz

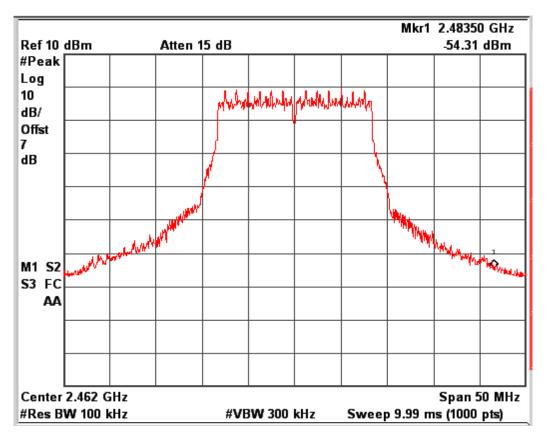




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Data Rate: 54 Mbps Channel frequency: 2412 MHz

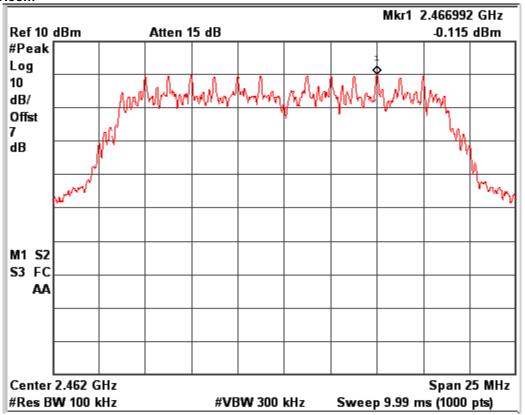


Data Rate: 54 Mbps Channel frequency: 2462 MHz

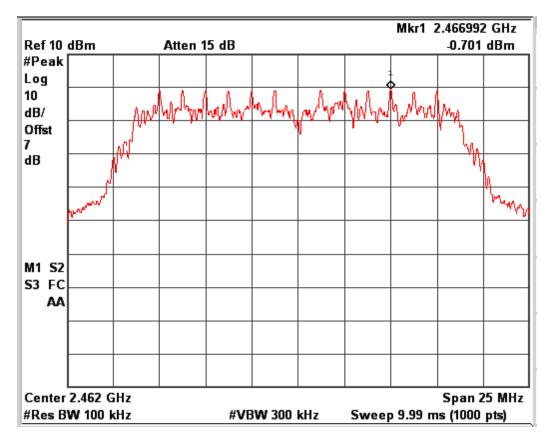
IEEE802.11nHT20								
Data	Channel	Value at Band Edge		Reference	Band	Limit		
Rate (Mbps)	Frequency (MHz)	Frequency (MHz)	Value A (dBm)	Value B (dBm)	Edge Value A~B (dBc)	(dBc)		
MCS0	2412	2400	-39.06	-0.115	38.94	30		
MCSU	2462	2483.5	-50.85	-0.115	50.73	30		
MCS7	2412	2400	-37.52	-0.701	36.81	30		
IVICS7	2462	2483.5	-51.51	-0.701	50.80	30		
MCS15	2412	2400	-38.44	-0.16	38.28	30		
	2462	2483.5	-51.08	-0.16	50.92	30		

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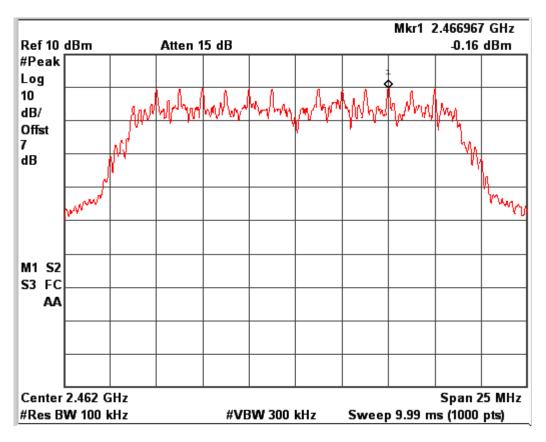
Reference Level Plot: MCS0



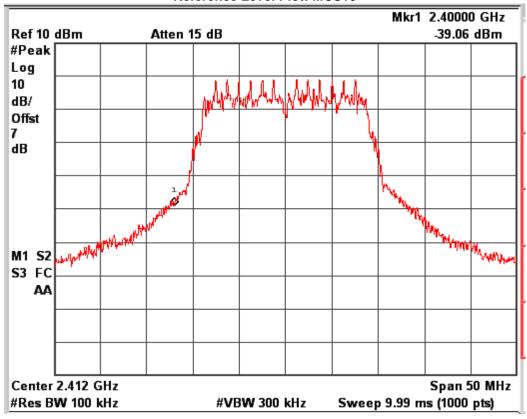
Reference Level Plot: MCS7

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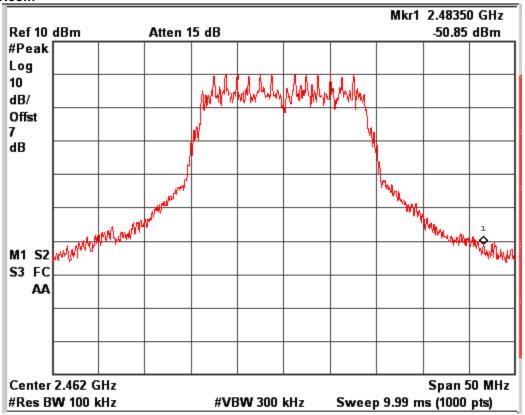




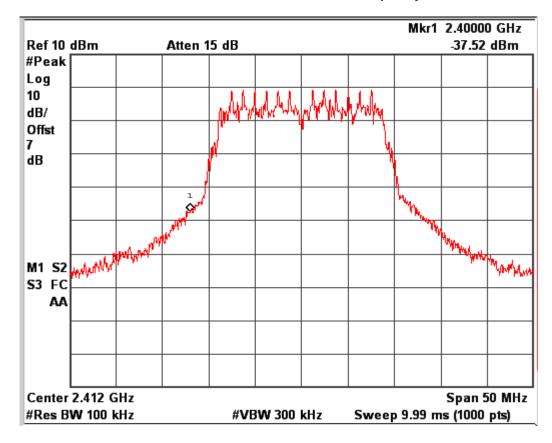
Data Rate: MCS0 Channel frequency: 2412 MHz

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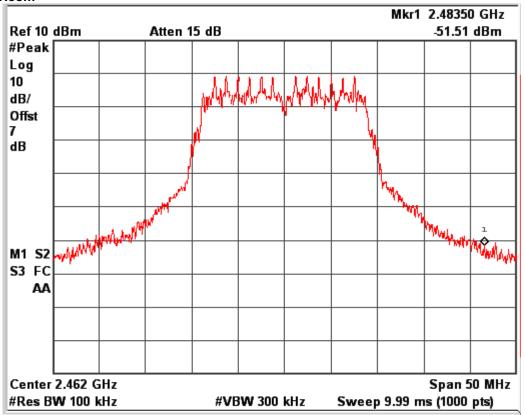
Data Rate: MCS0 Channel frequency: 2462 MHz



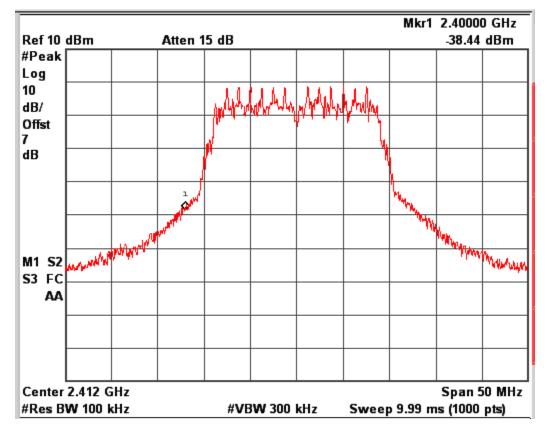
Data Rate: MCS7 Channel frequency: 2412 MHz

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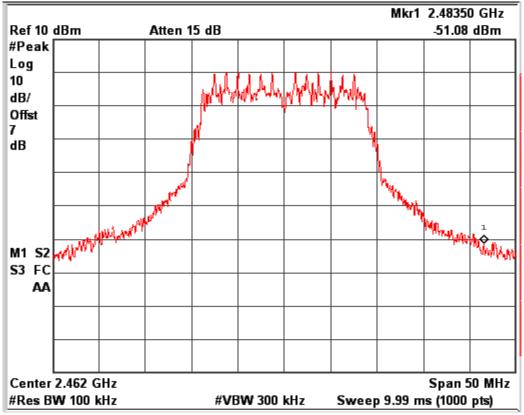
Data Rate: MCS7 Channel frequency: 2462 MHz



Data Rate: MCS15 Channel frequency: 2412 MHz

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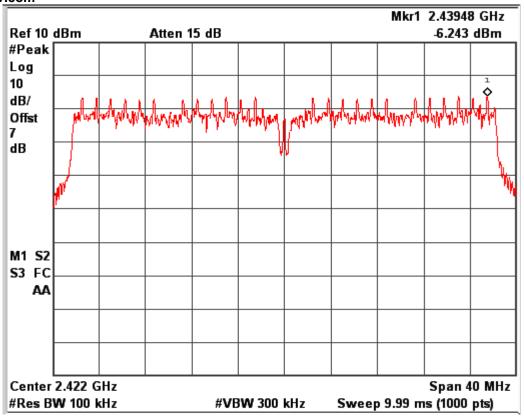


Data Rate: MCS15 Channel frequency: 2462 MHz

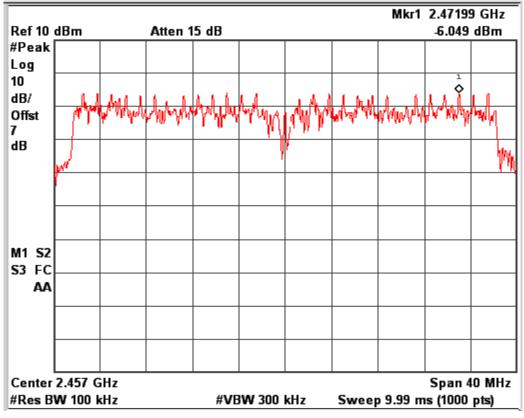
IEEE802.1	1nHT40					
Data Rate	Channel	Value at Ba	and Edge	Reference	Band	Limit
(Mbps)	Frequency (MHz)	Frequency (MHz)	Value A (dBm)	Value B (dBm)	Edge Value A~B (dBc)	(dBc)
MCS0	2422	2400	-42.03	-6.24	35.79	30
MCSU	2457	2483.5	-46.66	-6.24	40.42	30
MCS7	2422	2400	-37.19	-6.04	31.15	30
MCS7	2457	2483.5	-43.03	-6.04	36.99	30
MCS15	2422	2400	-41.96	-6.18	35.78	30
IVICS 15	2457	2483.5	-45.13	-6.18	38.95	30

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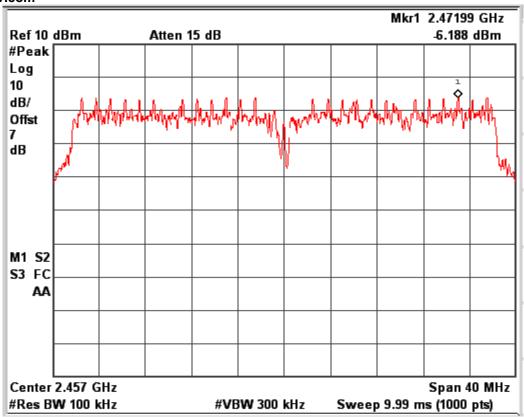
Reference Level Plot: MCS0



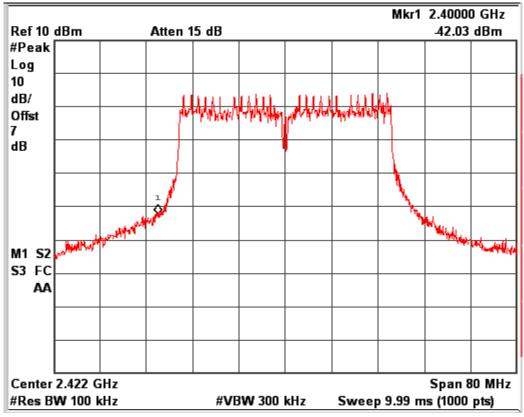
Reference Level Plot: MCS7

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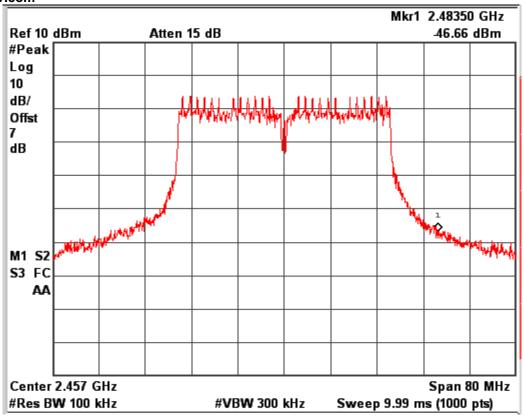


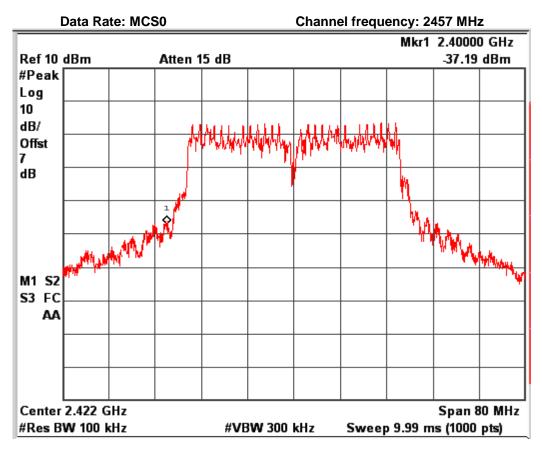


Data Rate: MCS0 Channel frequency: 2422 MHz

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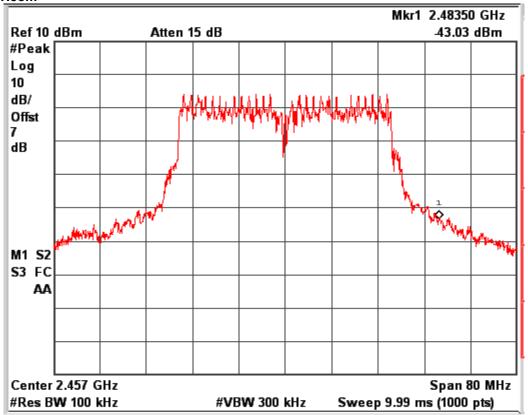


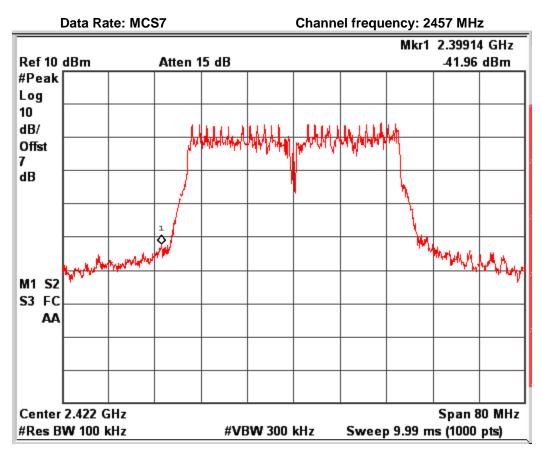


Data Rate: MCS7 Channel frequency: 2422 MHz

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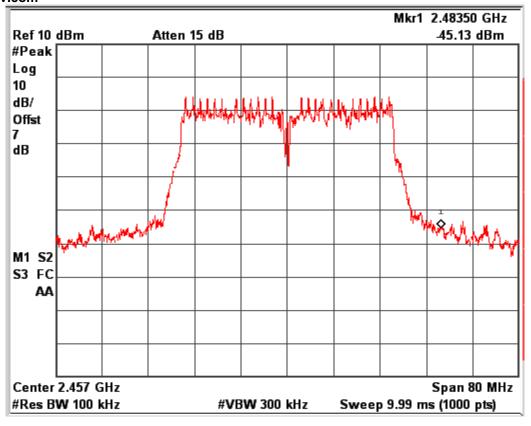




Data Rate: MCS15 Channel frequency: 2422 MHz

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Data Rate: MCS15 Channel frequency: 2457 MHz

Test Result: Bluetooth LE

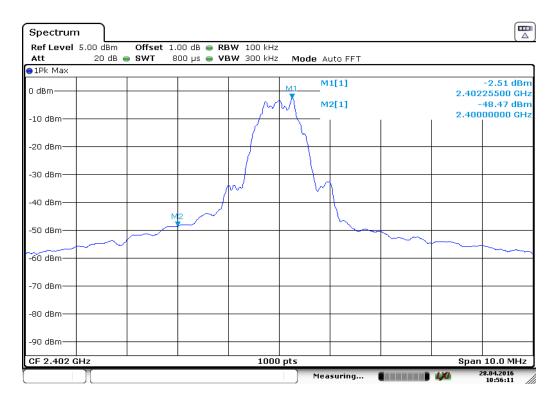
Channel Frequency	Value at Ba	and Edge	Reference Value B	Band Edge Value A~B	Limit (dBc)
(MHz)	Frequency (MHz)	Value A (dBm)	(dBm)	(dBc)	(===)
2402	2399.72	-48.47	-2.61	-45.86	20
2480	2483.50	-55.9	-2.61	-53.29	20

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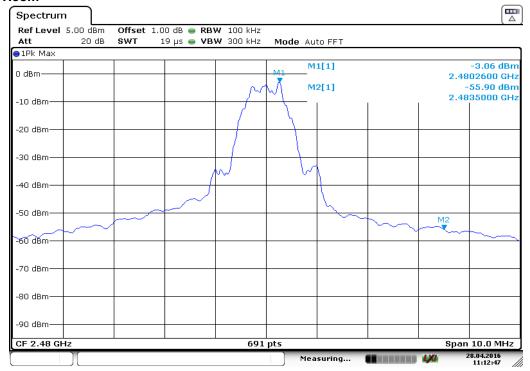
Reference Level Plot



Channel Frequency 2402 MHz

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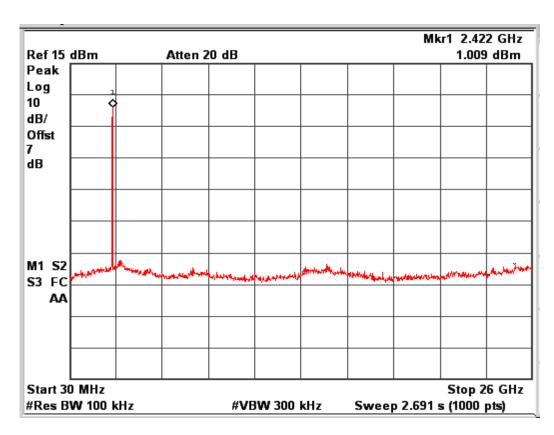




Channel Frequency 2480 MHz

Conducted Spurious Emission

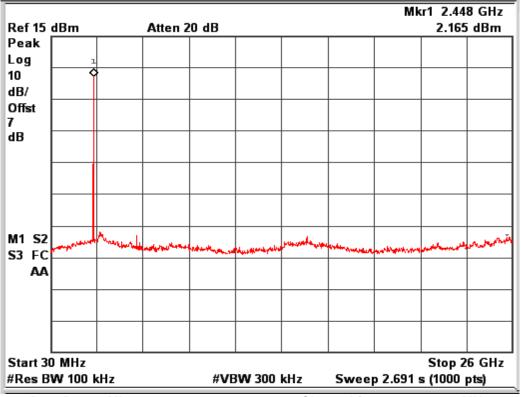
WiFi

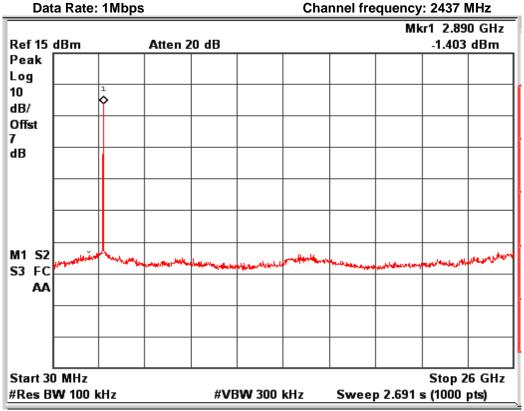


Data Rate: 1Mbps Channel frequency: 2412 MHz

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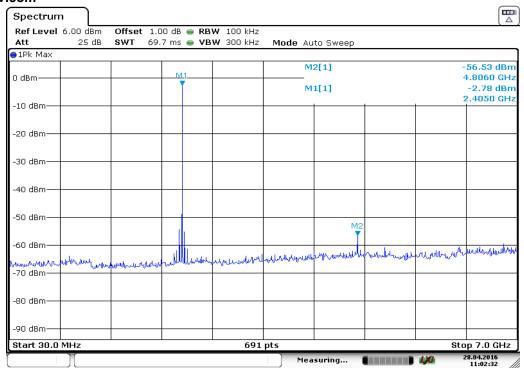


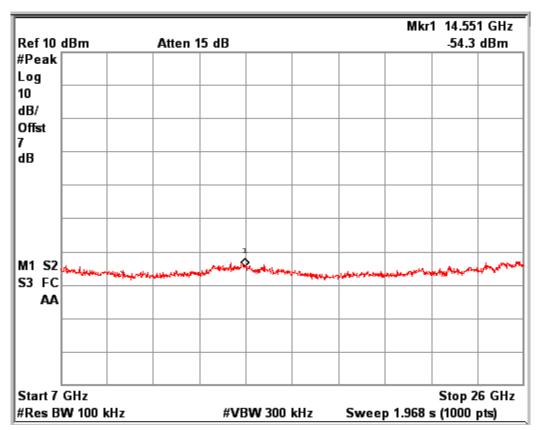
Data Rate: 1Mbps Channel frequency: 2462 MHz

Bluetooth LE

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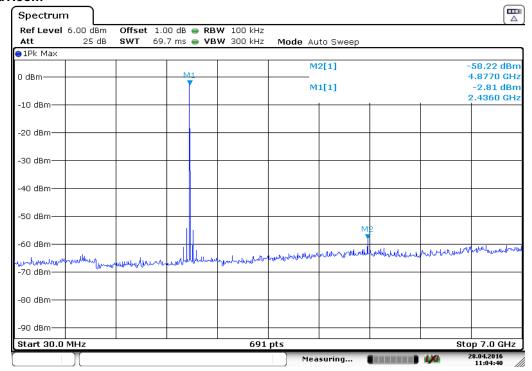


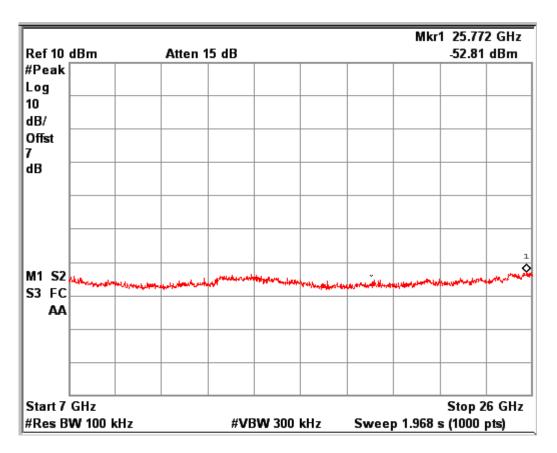


Channel Frequency 2402 MHz

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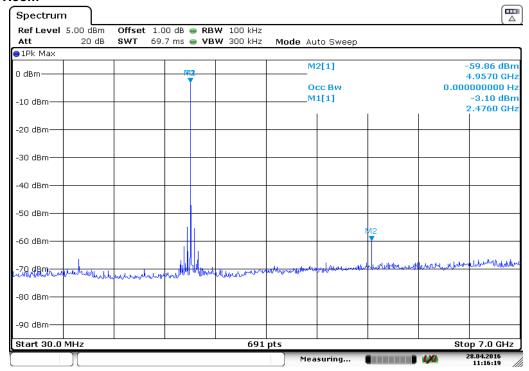


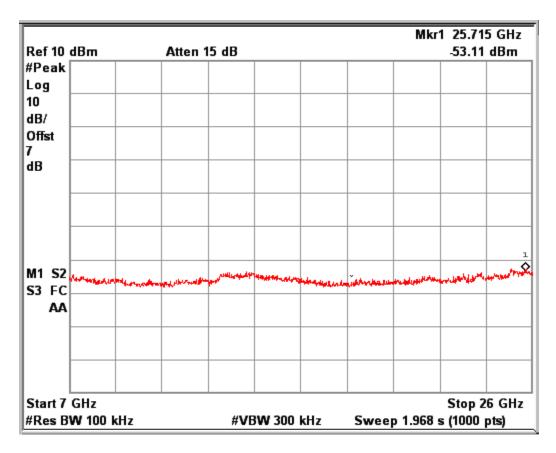


Channel Frequency 2437 MHz

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Channel Frequency 2480 MHz

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Radiated Spurious Emissions and Restricted Bands of Operation Result

Section 15.209 and 15.205 Pass

Test Specification FCC Part 15 Section 15.209 &15.205

Test Method ANSI C63.10-2013
Measurement Location Semi Anechoic Chamber

Measuring Distance 3m

Detection QP for frequency below 1GHz, Average for frequency above 1GHz

Requirement As per the limits mentioned in the bellow table

Limit for Radiated Emission of Section 15.209:

Frequency (MHz)	Field strength (μV/m)	Field strength (dBμV/m)	Distance of Measurement (m)
0.009 - 0.490	2400/F(kHz)	48.50 – 13.80	300*
0.490 - 1.705	24000/F(kHz)	33.80 - 23.00	30*
1.705 -30	30	29.54	30*
30-88	100	40.0	3
88-216	150	43.5	3
216-960	200	46.0	3
Above 960	500	54.0	3

Remark: * The limit shows in the table above of frequency range 0.009-0.490, 0.490-1.705 MHz and 1.705-30MHz is at 300 meter, 30 meter and 30 meter range respectively, which corresponds to 88.50-53.80, 53.80-43.00 and 49.5dB μ V/m at 3m range by extrapolation calculation and the measurement of loop antenna.

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.

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Test results:

For frequency Range 9kHz - 30MHz

No emissions found in this frequency range.

For the Frequency range 30MHz -1GHz

Note:

The product has digital device (Camera interfaces, SD card,USB & GPI external Cable) which cannot control the functions of intentional radiator (Wi-Fi, BT(EDR+BDR),BLE)) in such condition Radiated spurious emission for the frequency range from 30MHz to 1GHz was performed as per FCC part 15 subpart B 15.109, Class A requirement & Product exclusively used in Vehicles. Only worst case test results are reported.

FCC Part 15 Subpart B 15.109 Class A limits

Frequency MHz	Field Strength dBuV/m	Measured Distance (meter)	Field Strength (dBµV/m)
30-88	90.00	10.00	39.08
88-216	150.00	10.00	43.52
216-960	210.00	10.00	46.43
above 960	300.00	10.00	49.54

Worst case test results are reported.

External Battery (Vehicle Battery)

Polarization	Frequency(MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	199.99	39.26	43.52	-4.26
	299.95	40.09	46.43	-6.34
	320.02	41.02	46.43	-5.41
l lawina mtal	399.95	39.28	46.43	-7.15
Horizontal	479.98	41.60	46.43	-4.83
	527.99	43.52	46.43	-2.91
	800.08	40.88	46.43	-5.55
	928.22	41.56	46.43	-4.87
	199.94	33.43	43.52	-10.09
	300.04	32.53	46.43	-13.90
Vertical	528.09	40.63	46.43	-5.80
	624.02	39.43	46.43	-7.00
	800.08	44.23	46.43	-2.20

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Internal Battery

Polarization	Frequency(MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	199.94	39.47	43.52	-4.05
	300.04	36.3	46.43	-10.13
Horizontal	379.97	39.35	46.43	-7.08
Honzoniai	399.95	37.99	46.43	-8.44
	528.09	43.47	46.43	-2.96
	928.22	42.91	46.43	-3.52
	479.98	37.59	46.43	-8.84
Vertical	527.99	40.63	46.43	-5.80
	800.08	42.03	46.43	-4.40

30 MHz to 1 GHz test performed with only Radio modules are turned on at 3 m distance with FCC part 15 m subparts C 15.209 m limits

External Battery

Polarization	Frequency(MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	296.97	44.29	46	-1.71
	371.24	44.51	46	-1.49
Horizontal	631.10	40.01	46	-5.99
	779.66	44.05	46	-1.95
	853.91	42.65	46	-3.35
	371.24	40.91	46	-5.09
Vertical	556.90	40.69	46	-5.31
	928.22	42.15	46	-3.85

Internal Battery

Polarization	Frequency(MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
	371.24	42.64	46	-3.36
Horizontal	779.71	43.78	46	-2.22
Honzoniai	853.91	44.28	46	-1.72
	928.12	43.86	46	-2.14
	556.94	42.97	46	-3.03
Vertical	779.61	41.44	46	-4.56
	928.12	42.24	46	-3.76

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Worst case test results for the frequencies in the range 1 GHz 26.5 GHz are reported in below table.

Bluetooth Low Energy Test Results

Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margir (dB)
		2390 (Pk)	50.37	74	-23.63
		2390 (Av)	34.56	54	-19.44
		2402 (Pk)	92.53	*	-
	\/a=tiaal	2402 (Av)	89.40	*	-
	Vertical	4804 (Pk)	51.69	74	-22.31
		4804 (Av)	41.49	54	-12.51
		7206 (Pk)	59.13	74	-14.87
0.400		7206 (Av)	47.48	54	-6.52
2402		2390 (Pk)	44.31	74	-29.69
		2390 (Av)	33.00	54	-21
		2402 (Pk)	88.45	*	-
	,, , , ,	2402 (Av)	84.85	*	-
	Horizontal	4804 (Pk)	50.65	74	-23.35
		4804 (Av)	39.03	54	-14.97
		7206 (Pk)	60.55	74	-13.45
		7206 (Av)	50.71	54	-3.29
		2440 (Pk)	91.24	*	_
		2440 (Av)	89.02	*	_
		4880 (Pk)	51.90	74	-22.1
	Vertical	4880 (Av)	41.62	54	-12.38
		7320 (Pk)	58.79	74	-15.21
		7320 (Av)	46.57	54	-7.43
2440		2440 (Pk)	88.31	*	_
		2440 (Av)	83.49	*	_
		4880 (Pk)	50.83	74	-23.17
	Horizontal	4880 (Av)	41.27	54	-12.73
		7320 (Pk)	60.25	74	-13.75
		7320 (Av)	49.96	54	-4.04
		2480 (Pk)	93.22	*	-
		2480 (Av)	89.94	*	-
		2483.5 (Pk)	54.86	74	-19.14
		2483.5 (Av)	27.83	54	-26.17
	Vertical	4960 (Pk)	51.84	74	-22.16
		4060 (Av)	40.30	54	-13.7
2480		7440 (Pk)	60.36	74	-13.64
- -		7440 (Av)	48.16	54	-5.84
		2480 (Pk)	87.74	*	-
		2480 (Av)	84.72	*	_
	Horizontal	2483.5 (Pk)	50.09	74	-23.91
		2483.5 (Av)	27.28	54	-26.72
		4960 (Pk)	51.88	74	-22.12

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	4060 (Av)	40.17	54	-13.83	
	7440 (Pk)	60.87	74	-13.13	
	7440 (Av)	50.82	54	-3.18	

Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB
		2390 (Pk)	44.31	74	-29.69
		2390 (Av)	33.00	54	-21
		2402 (Pk)	85.72	*	-
	Vertical	2402 (Av)	81.45	*	-
	vertical	4804 (Pk)	52.59	74	-21.41
		4804 (Av)	40.88	54	-13.12
		7206 (Pk)	62.24	74	-11.76
2402		7206 (Av)	48.71	54	-5.29
2402		2390 (Pk)	50.37	74	-23.63
		2390 (Av)	34.56	54	-19.44
		2402 (Pk)	87.23	*	-
	Horizontal	2402 (Av)	83.17	*	-
	Horizoniai	4804 (Pk)	51.06	74	-22.94
		4804 (Av)	39.15	54	-14.85
		7206 (Pk)	66.84	74	-7.16
		7206 (Av)	53.24	54	-0.76
		2440 (Pk)	85.55	*	-
		2440 (Av)	81.85	*	-
	Vertical	4880 (Pk)	51.83	74	-22.17
	vertical	4880 (Av)	40.72	54	-13.28
		7320 (Pk)	60.04	74	-13.96
0440		7320 (Av)	50.35	54	-3.65
2440		2440 (Pk)	87.04	*	-
		2440 (Av)	83.19	*	-
	Howimontol	4880 (Pk)	51.37	74	-22.63
	Horizontal	4880 (Av)	39.62	54	-14.38
		7320 (Pk)	62.51	74	-11.49
		7320 (Av)	52.12	54	-1.88
		2480 (Pk)	85.55	*	-
		2480 (Av)	82.71	*	-
		2483.5 (Pk)	49.56	74	-24.44
	Vertical	2483.5 (Av)	27.37	54	-26.63
	Vertical	4960 (Pk)	52.82	74	-21.18
		4060 (Av)	40.65	54	-13.35
0.400		7440 (Pk)	60.65	74	-13.35
2480		7440 (Av)	48.98	54	-5.02
		2480 (Pk)	87.57	*	-
		2480 (Av)	84.52	*	-
	Herina C.	2483.5 (Pk)	48.89	74	-25.11
	Horizontal	2483.5 (Av)	27.54	54	-26.46
		4960 (Pk)	51.36	74	-22.64
		4060 (Av)	39.65	54	-14.35

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
(11112)		2390 (Pk)	53.24	74	-20.76
		2390 (Av)	39.44	54	-14.56
		2412 (Pk)	103.83	*	-
		2412 (Av)	101.37	*	-
	Vertical	4824 (Pk)	54.46	74	-19.54
		4824 (Av)	49.66	54	-4.34
		7236 (Pk)	57.33	74	-16.67
0440		7236 (Av)	45.01	54	-8.99
2412		2390 (Pk)	49.68	74	-24.32
		2390 (Av)	31.45	54	-22.55
		2412 (Pk)	98.41	*	-
	l lawina atal	2412 (Av)	95.9	*	-
	Horizontal	4824 (Pk)	52.01	74	-21.99
		4824 (Av)	45.02	54	-8.98
		7236 (Pk)	57.33	74	-16.67
		7236 (Av)	45.01	54	-8.99
		2437 (Pk)	103.86	*	-
		2437 (Av)	101.35	*	-
	\	4874 (Pk)	53.35	74 54 * * 74 54 74 54 74 54 74 54 74 54 * * * 74 54 74 54 74 54 74 54 74	-20.65
	Vertical	4874 (Av)	47.17		-6.83
		7311 (Pk)	58.53		-15.47
0407		7311 (Av)	45.21		-8.79
2437		2437 (Pk)	92.93	*	-
		2437 (Av)	90.6	74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 54 74 554 74 554 74 554 74 554 74 554 74 554	-
	Horizontal	4874 (Pk)	51.72		-22.28
	Honzontai	4874 (Av)	44.27		-9.73
		7311 (Pk)	58.07	74	-15.93
		7311 (Av)	45.04	54	-8.96
		2462 (Pk)	109.16	*	-
		2462 (Av)	106.68	*	-
		2483.5 (Pk)	56.32	74	-17.68
	Vertical	2483.5 (Av)	47.48	54	-6.52
	Vertical	4924 (Pk)	52.78	74	-21.22
		4924 (Av)	43.25	54	-10.75
		7386 (Pk)	57.21	74	-16.79
2462		7386(Av)	44.84	(dBµV/m) 74 54 * 74 54 74	-9.16
		2462 (Pk)	102.98		-
		2462 (Av)	99.73	*	-
		2483.5 (Pk)	54.23	74	-19.77
	Horizontal	2483.5 (Av)	47.98	54	-6.02
		4924 (Pk)	50.9	74	-23.1
		4924 (Av)	40.29	54	-13.71
		7386 (Pk)	56.75	74	-17.25

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	7386(Av)	44.92	54	-9.08	1
	1 300(AV)	44.92	54	-9.00	i

Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	54.35	74	-19.65
		2390 (Av)	33.69	54	-20.31
		2412 (Pk)	107.98	*	-
	Vartical	2412 (Av)	100.17	*	-
	Vertical	4824 (Pk)	52.11	74	-21.89
		4824 (Av)	40.38	54	-13.62
		7236 (Pk)	56.12	74	-17.88
0440		7236 (Av)	44.82	54	-9.18
2412		2390 (Pk)	43.18	74	-30.82
		2390 (Av)	28.6	54	-25.4
		2412 (Pk)	97.03	*	-
	11.2	2412 (Av)	89.24	*	-
	Horizontal	4824 (Pk)	50.53	74	-23.47
		4824 (Av)	37.96	54	-16.04
		7236 (Pk)	57.21	74	-16.79
		7236 (Av)	44.02	54	-9.98
		2437 (Pk)	102.85	*	-
		2437 (Av)	100.92	*	-
	Marchal	4874 (Pk)	55.05	74	-18.95
	Vertical	4874 (Av)	43.74	54	-10.26
		7311 (Pk)	57.27	74	-16.73
0.407		7311 (Av)	44.82	54	-9.18
2437		2437 (Pk)	91.92	*	-
		2437 (Av)	89.28	*	-
	11.2	4874 (Pk)	42.76	74	-31.24
	Horizontal	4874 (Av)	40.84	54	-13.16
		7311 (Pk)	57.92	74	-16.08
		7311 (Av)	44.87	54	-9.13
		2462 (Pk)	107.78	*	-
		2462 (Av)	100.08	*	-
		2483.5 (Pk)	52.57	74	-21.43
	\/t!1	2483.5 (Av)	33.85	54	-20.15
0.400	Vertical	4924 (Pk)	51.83	74	-22.17
2462		4924 (Av)	42.37	54	-11.63
		7386 (Pk)	56.38	74	-17.62
		7386(Av)	43.91	54	-10.09
	11.2	2462 (Pk)	100.69	*	-
	Horizontal	2462 (Av)	92.98	*	<u> </u>

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2483.5 (Pk)	46.82	74	-27.18
2483.5 (Av)	29.13	54	-24.87
4924 (Pk)	50.9	74	-23.1
4924 (Av)	40.29	54	-13.71
7386 (Pk)	55.38	74	-18.62
7386(Av)	43.82	54	-10.18

Wi-Fi Test Results

Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margir (dB)
		2390 (Pk)	57.21	74	-16.79
		2390 (Av)	40.66	54	-13.34
	Vertical	2412 (Pk)	105.14	*	-
	vertical	2412 (Av)	95.51	*	-
		4824 (Pk)	53.84	74	-20.16
0440		4824 (Av)	40.67	54	-13.33
2412		2390 (Pk)	47.26	74	-26.74
		2390 (Av)	31.88	74 54 74 54 * * * * * * * * * * * * * * * * * *	-22.12
	l la vi-a otal	2412 (Pk)	96.6		-
	Horizontal	2412 (Av)	87.01	*	-
		4824 (Pk)	50.79	74	-23.21
	4824 (Av)	38.03	54	-15.97	
		2437 (Pk)	104.47	*	-
	Martinal	2437 (Av)	95.5	*	-
	Vertical	4874 (Pk)	53.2	74	-20.8
0.407		4874 (Av)	40.47	54	-13.53
2437		2437 (Pk)	96.48	*	-
		2437 (Av)	87.32	*	-
	Horizontal	4874 (Pk)	51.64	74	-22.36
		4874 (Av)	38.21	54 * 74 54 74 54 * 74 54 * 74 54 * 74 54 * 74 54 * 74 54 * *	-15.79
		2462 (Pk)	104.85	*	-
		2462 (Av)	96.27	74 54 * * 74 54	-
	\/articol	2483.5 (Pk)	56.23	74	-17.77
	Vertical	2483.5 (Av)	42.07	54	-11.93
		4924 (Pk)	53.52	74	-20.48
0.400		4924 (Av)	41.48	54	-12.52
2462		2462 (Pk)	97.13	*	-
		2462 (Av)	88.89	*	-
	Horizontal	2483.5 (Pk)	46.73	74	-27.27
	Horizontal	2483.5 (Av)	33.66	54	-20.34
		4924 (Pk)	52.41	74	-21.59
		4924 (Av)	39.68	54	-14.32

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	53.71	74	-20.29
		2390 (Av)	40.45	54	-13.55
	Vartical	2412 (Pk)	105.38	*	-
	Vertical	2412 (Av)	96.43	*	-
		4824 (Pk)	52.28	74	-21.72
2442		4824 (Av)	40.16	54	-13.84
2412		2390 (Pk)	45.24	74	-28.76
		2390 (Av)	32.14	54	-21.86
	Horizontal	2412 (Pk)	96.56	54 * 74 54 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * * * * * * * * * * * *	-
	Horizoniai	2412 (Av)	88.07		-
		4824 (Pk)	49.95	74	-24.05
		4824 (Av)	37.77	54	-16.23
		2437 (Pk)	103.72	*	-
	Vertical	2437 (Av)	94.28	*	-
	vertical	4874 (Pk)	51.72	74 54 *	-22.28
0.407		4874 (Av)	38.82	54	-15.18
2437		2437 (Pk)	95.83	74 54 * * 74	-
		2437 (Av)	86.28	*	-
	Horizontal	4874 (Pk)	50.12	74	-23.88
		4874 (Av)	37.29	54 * 74 54 74 54 74 54 * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 54 * * 74 54 54 * * 74 54 54 * * 74 54 * * * * * * * * * * * * *	-16.71
		2462 (Pk)	105.27	*	-
		2462 (Av)	96.56	*	-
	Vartical	2483.5 (Pk)	54.47	* * 74 54 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * 74 54 * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * * 74 54 * * * * * * * * * * * * *	-19.53
	Vertical	2483.5 (Av)	40.71		-13.29
		4924 (Pk)	52.37	74	-21.63
2462		4924 (Av)	40.62	54	-13.38
2462		2462 (Pk)	97.72	*	-
		2462 (Av)	88.88	*	-
	Horizontol	2483.5 (Pk)	46.28	74	-27.72
	Horizontal	2483.5 (Av)	32.94	54	-21.06
		4924 (Pk)	51.73	74	-22.27
		4924 (Av)	38.28	54	-15.72

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
•		2390 (Pk)	54.08	74	-19.92
		2390 (Av)	41.01	54	-12.99
	\/artical	2412 (Pk)	104.22	*	-
	Vertical	2412 (Av)	95.63	*	-
		4824 (Pk)	51.8	74	-22.2
2442		4824 (Av)	40.16	54 74 54 * * 74 54 * * 74 54 * * 74 54	-13.84
2412		2390 (Pk)	45.42	74	-28.58
		2390 (Av)	32.42	54	-21.58
	Horizontal	2412 (Pk)	95.97	54 * 74 54 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 54 74 54 74 54	-
	Horizoniai	2412 (Av)	87.21		-
		4824 (Pk)	50.27	74	-23.73
		4824 (Av)	37.81	54	-16.19
		2437 (Pk)	102.28	*	-
	Vartical	2437 (Av)	93.16	*	-
	Vertical	4874 (Pk)	50.32	74 54	-23.68
0.407		4874 (Av)	38.12	54	-15.88
2437		2437 (Pk)	94.12	54 * *	-
	l la vi-a vatal	2437 (Av)	85.28	*	-
	Horizontal	4874 (Pk)	49.29	74	-24.71
		4874 (Av)	37.75	54 * 74 54 74 54 * 74 54 * 74 54 * 74 54 * 74 54 * 74 54 * 74 54 74 54 74 74 74	-16.25
		2462 (Pk)	100.03	*	-
		2462 (Av)	91.19	*	-
	\/artical	2483.5 (Pk)	45.82	* * 74 54 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * * * * * * * * * * * *	-28.18
	Vertical	2483.5 (Av)	32.99		-21.01
		4924 (Pk)	50.72	74	-23.28
2462		4924 (Av)	39.18	54	-14.82
2462		2462 (Pk)	93.43	*	-
		2462 (Av)	84.46	*	-
	Havieretal	2483.5 (Pk)	43.37	74	-30.63
	Horizontal	2483.5 (Av)	30.28	54	-23.72
		4924 (Pk)	50.28	74	-23.72
		4924 (Av)	37.19	54	-16.81

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	56.4	74	-17.6
		2390 (Av)	45.14	54	-8.86
	Vertical	2412 (Pk)	104.47	*	-
	Vertical	2412 (Av)	95.59	*	-
		4824 (Pk)	53.37	74	-20.63
2412		4824 (Av)	41.33	54	-12.67
2412		2390 (Pk)	50.64	74	-23.36
		2390 (Av)	36.07	54	-17.93
	Harizantal	2412 (Pk)	99.38	*	-
	Horizontal	2412 (Av)	90.88	*	-
		4824 (Pk)	51.38	74	-22.62
	4824 (Av)	37.98	54	-16.02	
		2437 (Pk)	103.32	*	-
	Montinal	2437 (Av)	96.02	*	-
	Vertical	4874 (Pk)	53.12	74	-20.88
0.407		4874 (Av)	41.37	54	-12.63
2437		2437 (Pk)	95.11	*	-
	I I a di a a da l	2437 (Av)	87.86	*	-
	Horizontal	4874 (Pk)	51.83	74	-22.17
		4874 (Av)	37.19	54	-16.81
		2462 (Pk)	102.72	*	-
		2462 (Av)	95.47	*	-
	Madaal	2483.5 (Pk)	53.4	54 * 74 54 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * * * * * * * * * * * *	-20.6
	Vertical	2483.5 (Av)	40.91	54	-13.09
		4924 (Pk)	52.63	74	-21.37
0.400		4924 (Av)	41.29	54	-12.71
2462		2462 (Pk)	94.59		-
		2462 (Av)	86.85	*	-
	I lawing setal	2483.5 (Pk)	45.83	74	-28.17
	Horizontal	2483.5 (Av)	32.99	54	-21.01
		4924 (Pk)	51.29	74	-22.71
		4924 (Av)	37.66	54	-16.34

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	55.33	74	-18.67
		2390 (Av)	42.68	54	-11.32
	Vertical	2412 (Pk)	102.94	*	-
	Vertical	2412 (Av)	95.84	*	-
		4824 (Pk)	53.41	74	-20.59
2412		4824 (Av)	39.41	54	-14.59
2412		2390 (Pk)	47.22	74	-26.78
		2390 (Av)	34.34	54	-19.66
	l lovi-outol	2412 (Pk)	94.5	*	-
	Horizontal	2412 (Av)	87.08	*	-
		4824 (Pk)	49.77	74	-24.23
	4824 (Av)	37.87	54	-16.13	
		2437 (Pk)	101.29	*	-
	Vertical	2437 (Av)	96.31	*	-
	Vertical	4874 (Pk)	53.42	74	-20.58
0.407		4874 (Av)	39.19	54	-14.81
2437		2437 (Pk)	91.28	*	-
	11.2	2437 (Av)	86.71	*	-
	Horizontal	4874 (Pk)	51.29	74	-22.71
		4874 (Av)	37.61	54	-16.39
		2462 (Pk)	103.94	*	-
		2462 (Av)	96.6	*	-
	Marchal	2483.5 (Pk)	54.78	74	-19.22
	Vertical	2483.5 (Av)	42.79	54	-11.21
		4924 (Pk)	52.27	74	-21.73
0.400		4924 (Av)	40.91	54	-13.09
2462		2462 (Pk)	96	*	-
		2462 (Av)	89.42	*	-
	Hadi errel	2483.5 (Pk)	48.89	74	-25.11
	Horizontal	2483.5 (Av)	35.82	54	-18.18
		4924 (Pk)	51.25	74	-22.75
		4924 (Av)	37.17	54	-16.83

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	55.23	74	-18.77
		2390 (Av)	42.81	54	-11.19
	Vertical	2412 (Pk)	102.83	*	-
	vertical	2412 (Av)	95.25	*	•
		4824 (Pk)	53.42	74	-20.58
2412		4824 (Av)	41.44	54	-12.56
2412		2390 (Pk)	46.32	74	-27.68
		2390 (Av)	33.92	54	-20.08
	l la vi=a mtal	2412 (Pk)	93.72	*	-
	Horizontal	2412 (Av)	86.28	*	-
		4824 (Pk)	49.66	74	-24.34
	4824 (Av)	37.66	54	-16.34	
		2437 (Pk)	101.2	*	-
	Montinal	2437 (Av)	96.25	*	
	Vertical	4874 (Pk)	53.15	74	-20.85
0.407		4874 (Av)	39.63	54	-14.37
2437		2437 (Pk)	90.17	*	-
	I I a di a a da l	2437 (Av)	85.27	*	-
	Horizontal	4874 (Pk)	50.54	54 * 74 54 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * *	-23.46
		4874 (Av)	36.72		-17.28
		2462 (Pk)	103.68	*	-
		2462 (Av)	96.39	*	-
	Madaal	2483.5 (Pk)	54.45	74	-19.55
	Vertical	2483.5 (Av)	42.54	54	-11.46
		4924 (Pk)	52.21	74	-21.79
0.400		4924 (Av)	40.9	54	-13.1
2462		2462 (Pk)	95.46	*	-
		2462 (Av)	88.91	*	-
	Hadring Co.	2483.5 (Pk)	46.21	74	-27.79
	Horizontal	2483.5 (Av)	34.11	54	-19.89
		4924 (Pk)	50.42	74	-23.58
		4924 (Av)	36.82	54	-17.18

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margir (dB)
		2390 (Pk)	60.09	74	-13.91
		2390 (Av)	44.97	54	-9.03
	Vertical	2422 (Pk)	98.34	*	_
	vertical	2422 (Av)	89.77	*	_
		4844 (Pk)	51.13	74	-22.87
0.400		4844 (Av)	37.83	54	-16.17
2422		2390 (Pk)	51.54	74	-22.46
		2390 (Av)	36.41	54	-17.59
	l la « ntal	2422 (Pk)	89.19	*	-
	Horizontal	2422 (Av)	81.46	*	-
		4844 (Pk)	49.76	74	-24.24
		4844 (Av)	36.8	54	-17.2
		2442 (Pk)	101.4	*	-
	N/ 42 1	2442 (Av)	92.61	*	-
	Vertical	4884 (Pk)	51.01	74	-22.99
0.4.40		4884 (Av)	37.02	* 74 54 * * 74	-16.98
2442		2442 (Pk)	93.67		-
	Horizontal	2442 (Av)	85.23	*	-
		4884 (Pk)	49.71	74	-24.29
		4884 (Av)	37.86	* 74 54 74 54 * * 74 54 * * * 74 54 * * * 74 54 * * * 74 54 * * * 74 54 * * * * * * * * * * * * * * * * * *	-16.14
		2457 (Pk)	99.12	*	-
		2457 (Av)	90.95	*	-
	Madaal	2483.5 (Pk)	63.45	* * 74 54 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * 74 54 * * * * * * * * * * * * *	-10.55
	Vertical	2483.5 (Av)	47.82		-6.18
		4914 (Pk)	51.02	74	-22.98
0.457		4914 (Av)	36.29	54	-17.71
2457		2462 (Pk)	91.35	*	-
		2462 (Av)	83.6	*	-
	11-2-11	2483.5 (Pk)	54.81	74	-19.19
	Horizontal	2483.5 (Av)	38.96	54	-15.04
		4914 (Pk)	49.27	74	-24.73
		4914 (Av)	36.82	54	-17.18

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	62.67	74	
		2390 (Av)	49.16	54	
	Vertical	2422 (Pk)	100.04	*	-
	Vertical	2422 (Av)	91.52	*	-
		4844 (Pk)	52.01	74	-21.99
2422		4844 (Av)	39.57	54	-14.43
2422		2390 (Pk)	53.59	74	
		2390 (Av)	39.78	54	
	l la viza ntal	2422 (Pk)	91.3	*	-
	Horizontal	2422 (Av)	83.66	*	-
		4844 (Pk)	49.14	74	-24.86
		4844 (Av)	36.64	54	-17.36
	Vanisal	2442 (Pk)	102.67	*	-
		2442 (Av)	95.01	*	-
	Vertical	4884 (Pk)	52.19	74 54 *	-21.81
0440		4884 (Av)	39.9	54	-14.1
2442		2442 (Pk)	94.62	*	-
	11.2	2442 (Av)	86.94	*	-
	Horizontal	4884 (Pk)	50.21	74	-23.79
		4884 (Av)	36.28	(dBµV/m) 74 54 * 74 54 74 54 * 74 54 * 74 54 * 74 54 * 74 54 * 74 54 * 74 54 74 54 74 54 74 54 74 54 74	-17.72
		2457 (Pk)	101.52	*	-
		2457 (Av)	92.72	strength (dBµV/m) (dBµV/m) 62.67 74 49.16 54 100.04 * 91.52 * 52.01 74 39.57 54 53.59 74 39.78 54 91.3 * 83.66 * 49.14 74 36.64 54 102.67 * 95.01 * 52.19 74 39.9 54 94.62 * 86.94 * 50.21 74 36.28 54 101.52 * 92.72 * 69.53 74 50.62 54 52.27 74 39.2 54 93.07 * 85 * 61.27 74 41.01 54 50.41 74	-
	\/!	2483.5 (Pk)	69.53		-4.47
	Vertical	2483.5 (Av)	50.62		-3.38
		4914 (Pk)	52.27	74	-21.73
2457		4914 (Av)	39.2	54	-14.8
2457		2462 (Pk)	93.07	*	-
		2462 (Av)	85	*	-
	l la viera esta l	2483.5 (Pk)	61.27	74	-12.73
	Horizontal	2483.5 (Av)	41.01	54	-12.99
		4914 (Pk)	50.41	74	-23.59
		4914 (Av)	35.84	54	-18.16

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	62.44	74	
		2390 (Av)	51.14	54	
	Vertical	2422 (Pk)	99.68	*	-
	verticai	2422 (Av)	91.93	*	-
		4844 (Pk)	52.93	74	28.25
2422		4844 (Av)	39.65	54	40.58
2422		2390 (Pk)	52.71	74	
		2390 (Av)	41.18	54	
	l la sima satal	2422 (Pk)	91.27	*	-
	Horizontal	2422 (Av)	83.53	*	-
		4844 (Pk)	49.02	74	20.27
		4844 (Av)	36.47	54	32.45
		2442 (Pk)	102.25	*	-
		2442 (Av)	94.58	*	-
	Vertical	4884 (Pk)	52.18	74	-21.82
0.1.10		4884 (Av)	39.74	54	-14.26
2442		2442 (Pk)	94.27	*	-
	11.2	2442 (Av)	86.45	*	-
	Horizontal	4884 (Pk)	50.29	74	-23.71
		4884 (Av)	36.01	54	-17.99
		2457 (Pk)	100.18	*	-
		2457 (Av)	92.52	*	-
	Marthal	2483.5 (Pk)	63.22	74	-10.78
	Vertical	2483.5 (Av)	51.36	54	-2.64
		4914 (Pk)	52.19	74	-21.81
0.457		4914 (Av)	39.36	54	-14.64
2457		2462 (Pk)	91.91	*	-
		2462 (Av)	84.23	*	-
		2483.5 (Pk)	55.31	74	-18.69
	Horizontal	2483.5 (Av)	41.74	54	-12.26
		4914 (Pk)	50.26	74	-23.74
		4914 (Av)	36.01	54	-17.99

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802.11b 20MHz ,	Data Rate -1Mbps,	Internal Antenna			
Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	50.28	74	
		2390 (Av)	39.38	54	
		2412 (Pk)	98.93	*	-
	V (2. 1	2412 (Av)	96.45	*	-
	Vertical	4824 (Pk)	56.68	74	-17.32
		4824 (Av)	53.08	54	-0.92
		7236 (Pk)	58.3	74	-15.7
0.440		7236 (Av)	46.32	54	-7.68
2412		2390 (Pk)	52.22	74	
		2390 (Av)	41.12	54	
		2412 (Pk)	99.72	*	-
		2412 (Av)	97.32	*	-
	Horizontal	4824 (Pk)	53.76	74	-20.24
		4824 (Av)	48.89	54	-5.11
		7236 (Pk)	58.23	74	-15.77
		7236 (Av)	46.11	54	-7.89
	Vertical	2437 (Pk)	99.84	*	-
		2437 (Av)	95.38	*	-
		4874 (Pk)	51.92	74	-22.08
		4874 (Av)	44.93	54	-9.07
		7311 (Pk)	57.29	74	-16.71
0.407		7311 (Av)	45.84	54	-8.16
2437		2437 (Pk)	99.02	*	-
		2437 (Av)	96.44	*	-
	l la vissa atal	4874 (Pk)	50.86	74	-23.14
	Horizontal	4874 (Av)	41.54	54	-12.46
		7311 (Pk)	58.23	74	-15.77
		7311 (Av)	46.19	54	-7.81
		2462 (Pk)	102.22	*	-
		2462 (Av)	99.76	*	-
		2483.5 (Pk)	50.51	74	-23.49
	Vartical	2483.5 (Av)	40.66	54	-13.34
	Vertical	4924 (Pk)	55.93	74	-18.07
2462		4924 (Av)	52.65	54	-1.35
		7386 (Pk)	57.23	74	-16.77
		7386(Av)	45.92	54	-8.08
		2462 (Pk)	103.97	*	-
	Horizontal	2462 (Av)	101.39	*	-
		2483.5 (Pk)	54.32	74	-19.68

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	2483.5 (Av)	43.95	54	-10.05
	4924 (Pk)	49.83	74	-24.17
	4924 (Av)	40.31	54	-13.69
	7386 (Pk)	56.33	74	-17.67
	7386(Av)	45.9	54	-8.1

Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	49.28	74	
		2390 (Av)	39.11	54	
		2412 (Pk)	100.23	*	-
	Vertical	2412 (Av)	94.72	*	-
	vertical	4824 (Pk)	52	74	-22
		4824 (Av)	39.93	54	-14.07
		7236 (Pk)	58.2	74	-15.8
2412		7236 (Av)	43.92	54	-10.08
2412		2390 (Pk)	52.01	74	-21.99
		2390 (Av)	40.86	54	-13.14
		2412 (Pk)	98.45	*	-
	11.2(.1	2412 (Av)	93.82	*	-
	Horizontal	4824 (Pk)	50.98	74	-23.02
		4824 (Av)	38.34	54	-15.66
		7236 (Pk)	57.33	74	-16.67
		7236 (Av)	45.54	54	-8.46
		2437 (Pk)	99.74	*	-
		2437 (Av)	93.27	*	-
	Modfort	4874 (Pk)	52.13	74	-21.87
	Vertical	4874 (Av)	38.6	54	-15.4
		7311 (Pk)	57.26	74	-16.74
0.407		7311 (Av)	42.85	54	-11.15
2437		2437 (Pk)	97.93	*	-
		2437 (Av)	92.76	*	-
	11.2	4874 (Pk)	50.41	74	-23.59
	Horizontal	4874 (Av)	37.35	54	-16.65
		7311 (Pk)	56.82	74	-17.18
		7311 (Av)	44.29	54	-9.71
		2462 (Pk)	103.25	*	-
		2462 (Av)	95.55	*	-
2462	Vertical	2483.5 (Pk)	49.39	74	-24.61
		2483.5 (Av)	31.09	54	-22.91
		4924 (Pk)	51.98	74	-22.02

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		4924 (Av)	38.29	54	-15.71
		7386 (Pk)	56.29	74	-17.71
		7386(Av)	41.9	54	-12.1
		2462 (Pk)	105.05	*	-
		2462 (Av)	97.23	*	-
		2483.5 (Pk)	50.47	74	-23.53
	Horizontal	2483.5 (Av)	33.68	54	-20.32
	Honzontai	4924 (Pk)	49.89	74	-24.11
		4924 (Av)	36.29	54	-17.71
		7386 (Pk)	55.29	74	-18.71
		7386(Av)	43.19	54	-10.81

Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	51.39	74	
		2390 (Av)	36.22	54	
	Vertical	2412 (Pk)	98.96	*	-
	vertical	2412 (Av)	91.34	*	-
		4824 (Pk)	54.12	74	-19.88
2412		4824 (Av)	38.76	54	-15.24
2412		2390 (Pk)	51.89	74	
		2390 (Av)	37.61	54	
	l la sima setal	2412 (Pk)	100.72	*	-
	Horizontal	2412 (Av)	92.35	*	-
		4824 (Pk)	52.01	74	-21.99
		4824 (Av)	39.84	54	-14.16
		2437 (Pk)	97.23	*	-
	Mantiaal	2437 (Av)	89.45	*	-
	Vertical	4874 (Pk)	52.13	74	-21.87
0.407		4874 (Av)	39.83	54	-14.17
2437		2437 (Pk)	101.32	*	-
		2437 (Av)	93.45	*	-
	Horizontal	4874 (Pk)	51.67	74	-22.33
		4874 (Av)	38.05	54	-15.95
		2462 (Pk)	99.78	*	-
		2462 (Av)	91.58	*	-
	Montinal	2483.5 (Pk)	49.1	74	-24.9
2462	Vertical	2483.5 (Av)	34.41	54	-19.59
		4924 (Pk)	51.73	74	-22.27
		4924 (Av)	37.29	54	-16.71
	Horizontal	2462 (Pk)	102.4	*	-

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	2462 (Av)	94.58	*	-
	2483.5 (Pk)	50.68	74	-23.32
	2483.5 (Av)	36.79	54	-17.21
	4924 (Pk)	52.72	74	-21.28
	4924 (Av)	40.63	54	-13.37

Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	48.92	74	
		2390 (Av)	36.33	54	
	Vertical	2412 (Pk)	97.65	*	-
	vertical	2412 (Av)	90.47	*	-
		4824 (Pk)	53.23	74	-20.77
2412		4824 (Av)	37.9	54	-16.1
2412		2390 (Pk)	48.29	74	
		2390 (Av)	38.84	54	
	l la sima atal	2412 (Pk)	100.92	*	-
	Horizontal	2412 (Av)	91.89	*	-
		4824 (Pk)	51.41	74	-22.59
		4824 (Av)	38.47	54	-15.53
		2437 (Pk)	96.35	*	-
		2437 (Av)	88.28	*	-
	Vertical	4874 (Pk)	51.02	74	-22.98
0.407		4874 (Av)	38.62	54	-15.38
2437		2437 (Pk)	100.73	*	-
		2437 (Av)	92.83	*	-
	Horizontal	4874 (Pk)	49.52	74	-24.48
		4874 (Av)	36.12	54	-17.88
		2462 (Pk)	100.36	*	-
		2462 (Av)	91.47	*	-
	V (* 1	2483.5 (Pk)	49.31	74	-24.69
	Vertical	2483.5 (Av)	37.04	54	-16.96
		4924 (Pk)	50.28	74	-23.72
0.400		4924 (Av)	36.19	54	-17.81
2462		2462 (Pk)	103.46	*	-
		2462 (Av)	94.23	*	-
		2483.5 (Pk)	52.65	74	-21.35
	Horizontal	2483.5 (Av)	40.53	54	-13.47
		4924 (Pk)	51.93	74	-22.07
		4924 (Av)	39.74	54	-14.26

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	48.22	74	
		2390 (Av)	36.76	54	
	Vertical	2412 (Pk)	96.82	*	-
	vertical	2412 (Av)	89.46	*	-
		4824 (Pk)	53.01	74	-20.99
2442		4824 (Av)	36.81	54	-17.19
2412		2390 (Pk)	49.11	74	
		2390 (Av)	39.46	54	
	l lavimantal	2412 (Pk)	99.89	*	-
	Horizontal	2412 (Av)	90.63	*	-
		4824 (Pk)	50.62	74	-23.38
		4824 (Av)	38.41	54	-15.59
		2437 (Pk)	95.23	*	-
	Vertical	2437 (Av)	87.41	*	-
		4874 (Pk)	50.22	74	-23.78
0.407		4874 (Av)	38.21	54	-15.79
2437		2437 (Pk)	99.02	*	-
		2437 (Av)	91.42	*	-
	Horizontal	4874 (Pk)	48.18	74	-25.82
		4874 (Av)	36.22	54	-17.78
		2462 (Pk)	100.53	*	-
		2462 (Av)	92.58	*	-
		2483.5 (Pk)	49.46	74	-24.54
	Vertical	2483.5 (Av)	35.31	54	-18.69
		4924 (Pk)	49.22	74	-24.78
0.400		4924 (Av)	35.82	54	-18.18
2462		2462 (Pk)	103.25	*	-
		2462 (Av)	95.39	*	-
		2483.5 (Pk)	52.44	74	-21.56
	Horizontal	2483.5 (Av)	37.18	54	-16.82
		4924 (Pk)	50.29	74	-23.71
		4924 (Av)	38.12	54	-15.88

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	50.11	74	
		2390 (Av)	36.9	54	
	Vertical	2412 (Pk)	100.18	*	-
	vertical	2412 (Av)	94.18	*	-
		4824 (Pk)	53.63	74	-20.37
2442		4824 (Av)	39.4	54	-14.6
2412		2390 (Pk)	50.72	74	
		2390 (Av)	37.84	54	
	l la sima setal	2412 (Pk)	101.57	*	-
	Horizontal	2412 (Av)	95.2	*	-
		4824 (Pk)	51.74	74	-22.26
		4824 (Av)	38.51	54	-15.49
		2437 (Pk)	98.43	*	-
		2437 (Av)	93.28	*	-
	Vertical	4874 (Pk)	52.3	74	-21.7
0.407		4874 (Av)	38.91	54	-15.09
2437		2437 (Pk)	100.83	*	-
	11.2	2437 (Av)	96.26	*	-
	Horizontal	4874 (Pk)	52.34	74	-21.66
		4874 (Av)	40.73	54	-13.27
		2462 (Pk)	95.18	*	-
		2462 (Av)	87.22	*	-
		2483.5 (Pk)	54.26	74	-19.74
	Vertical	2483.5 (Av)	41.22	54	-12.78
		4924 (Pk)	50.22	74	-23.78
0.400		4924 (Av)	36.84	54	-17.16
2462		2462 (Pk)	99.21	*	-
		2462 (Av)	94.74	*	-
		2483.5 (Pk)	54.21	74	-19.79
	Horizontal	2483.5 (Av)	41.92	54	-12.08
		4924 (Pk)	51.43	74	-22.57
		4924 (Av)	40.11	54	-13.89

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	50.21	74	
		2390 (Av)	36.91	54	
	Vertical	2412 (Pk)	97.32	*	-
	vertical	2412 (Av)	92.12	*	-
		4824 (Pk)	52.32	74	-21.68
2412		4824 (Av)	37.12	54	-16.88
2412		2390 (Pk)	48.12	74	
		2390 (Av)	36.01	54	
	l lovimontol	2412 (Pk)	100.01	*	-
	Horizontal	2412 (Av)	93.21	*	-
		4824 (Pk)	51.22	74	-22.78
		4824 (Av)	38.91	54	-15.09
		2437 (Pk)	96.21	*	-
	Vertical	2437 (Av)	91.83	*	-
		4874 (Pk)	52.12	74	-21.88
0.407		4874 (Av)	38.01	54	-15.99
2437		2437 (Pk)	99.34	*	-
	l la sima atal	2437 (Av)	96.11	*	-
	Horizontal	4874 (Pk)	52.13	74	-21.87
		4874 (Av)	39.02	54	-14.98
		2462 (Pk)	96.7	*	-
		2462 (Av)	89.69	*	-
	Marthal	2483.5 (Pk)	50.39	74	-23.61
	Vertical	2483.5 (Av)	34.63	54	-19.37
		4924 (Pk)	51.3	74	-22.7
0.400		4924 (Av)	36.82	54	-17.18
2462		2462 (Pk)	98.99	*	-
		2462 (Av)	92.4	*	-
		2483.5 (Pk)	52.74	74	-21.26
	Horizontal	2483.5 (Av)	37.03	54	-16.97
		4924 (Pk)	51.92	74	-22.08
		4924 (Av)	39.62	54	-14.38

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
		2390 (Pk)	50.7	74	-23.3
		2390 (Av)	36.69	54	-17.31
	Vartical	2412 (Pk)	98.7	*	-
	Vertical	2412 (Av)	92.88	*	-
		4824 (Pk)	51.02	74	-22.98
0440		4824 (Av)	37.11	54	-16.89
2412		2390 (Pk)	48.76	74	-25.24
		2390 (Av)	35.75	54	-18.25
	11.2	2412 (Pk)	100.3	*	-
	Horizontal	2412 (Av)	93.61	*	-
		4824 (Pk)	51.23	74	-22.77
		4824 (Av)	38.76	54	-15.24
		2437 (Pk)	96.92	*	-
		2437 (Av)	91.37	*	-
	Vertical	4874 (Pk)	52.84	74	-21.16
0.407		4874 (Av)	38.29	54	-15.71
2437		2437 (Pk)	99.54	*	-
		2437 (Av)	96.72	*	-
	Horizontal	4874 (Pk)	52.04	74	-21.96
		4874 (Av)	39.64	54	-14.36
		2462 (Pk)	94.37	*	-
		2462 (Av)	89.63	*	-
	V (2. 1	2483.5 (Pk)	51.83	74	-22.17
	Vertical	2483.5 (Av)	40.28	54	-13.72
		4924 (Pk)	50.44	74	-23.56
0.400		4924 (Av)	36.93	54	-17.07
2462		2462 (Pk)	98.73	*	-
		2462 (Av)	93.72	*	-
	Hadrey G	2483.5 (Pk)	52.84	74	-21.16
	Horizontal	2483.5 (Av)	39.02	54	-14.98
		4924 (Pk)	51.47	74	-22.53
		4924 (Av)	38.92	54	-15.08

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2422	Vertical	2390 (Pk)	59.62	74	
		2390 (Av)	45.39	54	
		2422 (Pk)	97.43	*	-
		2422 (Av)	89.46	*	-
		4844 (Pk)	51.33	74	-22.67
		4844 (Av)	39.63	54	-14.37
	Horizontal	2390 (Pk)	60.84	74	
		2390 (Av)	47.83	54	
		2422 (Pk)	98.74	*	-
		2422 (Av)	90.34	*	-
		4844 (Pk)	51.53	74	-22.47
		4844 (Av)	39.65	54	-14.35
	Vertical	2442 (Pk)	96.24	*	-
		2442 (Av)	88.66	*	-
		4884 (Pk)	51.25	74	-22.75
		4884 (Av)	38.13	54	-15.87
2442	Horizontal	2442 (Pk)	98.25	*	-
		2442 (Av)	91.12	*	-
		4884 (Pk)	49.31	74	-24.69
		4884 (Av)	37.08	54	-16.92
	Vertical	2457 (Pk)	97.32	*	-
		2457 (Av)	88.63	*	-
2457		2483.5 (Pk)	60.64	74	-13.36
		2483.5 (Av)	45.38	54	-8.62
		4914 (Pk)	51.01	74	-22.99
		4914 (Av)	37.85	54	-16.15
	Horizontal	2462 (Pk)	99.23	*	-
		2462 (Av)	90.72	*	-
		2483.5 (Pk)	66.82	74	-7.18
		2483.5 (Av)	48.45	54	-5.55
		4914 (Pk)	49.28	74	-24.72
		4914 (Av)	37.03	54	-16.97

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2422	Vertical	2390 (Pk)	59.11	74	
		2390 (Av)	45.54	54	
		2422 (Pk)	96.09	*	-
		2422 (Av)	89.37	*	-
		4844 (Pk)	50.32	74	-23.68
		4844 (Av)	39.54	54	-14.46
	Horizontal	2390 (Pk)	60.85	74	
		2390 (Av)	46.93	54	
		2422 (Pk)	97.68	*	-
		2422 (Av)	89.78	*	-
		4844 (Pk)	50.45	74	-23.55
		4844 (Av)	38.9	54	-15.1
	Vertical	2442 (Pk)	96.23	*	-
		2442 (Av)	88.25	*	-
		4884 (Pk)	50.12	74	-23.88
		4884 (Av)	37.24	54	-16.76
2442	Horizontal	2442 (Pk)	98.1	*	-
		2442 (Av)	90.13	*	-
		4884 (Pk)	48.29	74	-25.71
		4884 (Av)	36.17	54	-17.83
	Vertical	2457 (Pk)	96.29	*	-
		2457 (Av)	87.33	*	-
2457		2483.5 (Pk)	59.38	74	-14.62
		2483.5 (Av)	44.82	54	-9.18
		4914 (Pk)	51.28	74	-22.72
		4914 (Av)	37.29	54	-16.71
	Horizontal	2462 (Pk)	97.23	*	-
		2462 (Av)	89.45	*	-
		2483.5 (Pk)	65.28	74	-8.72
		2483.5 (Av)	47.28	54	-6.72
		4914 (Pk)	48.92	74	-25.08
		4914 (Av)	37.28	54	-16.72

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Channel Frequency (MHz)	Polarization	Frequency (MHz)	Field Strength (dBµV/m)	Limit (dBµV/m)	Margin (dB)
2422	Vertical	2390 (Pk)	58.83	74	
		2390 (Av)	44.37	54	
		2422 (Pk)	96.02	*	-
		2422 (Av)	88.65	*	-
		4844 (Pk)	49.76	74	21.23
		4844 (Av)	38.56	54	33.34
	Horizontal	2390 (Pk)	59.74	74	
		2390 (Av)	45.37	54	
		2422 (Pk)	96.65	*	-
		2422 (Av)	88.93	*	-
		4844 (Pk)	49.387	74	23.22
		4844 (Av)	37.82	54	34.73
0.440	Vertical	2442 (Pk)	95.23	*	-
		2442 (Av)	87.34	*	-
		4884 (Pk)	49.27	74	-24.73
		4884 (Av)	36.27	54	-17.73
2442	Horizontal	2442 (Pk)	97.22	*	-
		2442 (Av)	88.73	*	-
		4884 (Pk)	47.65	74	-26.35
		4884 (Av)	36.27	54	-17.73
2457	Vertical	2457 (Pk)	95.32	*	-
		2457 (Av)	86.49	*	-
		2483.5 (Pk)	58.99	74	-15.01
		2483.5 (Av)	43.67	54	-10.33
		4914 (Pk)	51.33	74	-22.67
		4914 (Av)	36.92	54	-17.08
	Horizontal	2462 (Pk)	96.71	*	-
		2462 (Av)	88.82	*	-
		2483.5 (Pk)	64.09	74	-9.91
		2483.5 (Av)	46.77	54	-7.23
		4914 (Pk)	48.98	74	-25.02
		4914 (Av)	36.21	54	-17.79

^{* - -&}gt; Fundamental Frequency P-->Peak detector

AV-->Average Detector

END OF TEST REPORT

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