

TEST REPORT

Reference No..... : WTH20X11091968W-2
FCC ID : 2AUZB-RAX1801
Applicant : SHENZHEN ZK TECHNOLOGY CO., LTD
SHENZHEN CITY LONGGANG DISTRICT STREETS QINGLIN ROAD
Address..... : SHENZHEN CITY STUDENTS (LONGGANG) BUSINESS PA... CHINA
518172
Product Name : Wireless Router
Test Model. : RAX1801
Standards : FCC Part 15.247
Date of Receipt sample : Nov.30, 2020
Date of Test..... : Nov.30, 2020 to Dec.15, 2020
Date of Issue : Dec.16, 2020
Test Result..... : Pass

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

Waltek Testing Group (Shenzhen) Co., Ltd.

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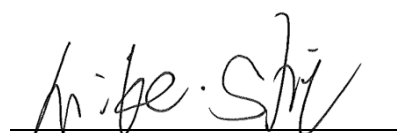
Tel.: +86-755-33663308

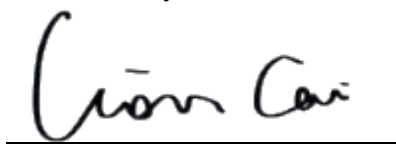
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Tested by:

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Report version

Version No.	Date of issue	Description
Rev.00	Dec.16, 2020	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: SHENZHEN ZK TECHNOLOGY CO., LTD
Address of applicant: SHENZHEN CITY LONGGANG DISTRICT STREETS
QINGLIN ROAD SHENZHEN CITY STUDENTS
(LONGGANG) BUSINESS PA... CHINA 518172

Manufacturer: HUIZHOU MTN WEIYE TECHNOLOGY DEVELOPMENT
CO.,LTD.

Address of manufacturer: NO.2 Huitai Road,Huinan High-tech Industrial Park,Huiao
Avenue,Huizhou City,Guangdong Province,China

General Description of EUT	
Product Name:	Wireless Router
Trade Name:	HNK
Model No.:	RAX1801
Adding Model(s):	/
Rated Voltage:	DC12V
Power Adapter Model:	MODEL: RD1201500-C55-153MG INPUT: AC100-240V, 50/60Hz, 0.6A OUTPUT: DC12V,1.5A
Note: The test data is gathered from a production sample provided by the manufacturer.	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n-HT20, 802.11ax-HE20, 802.11n-HT40, 802.11ax-HE40
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	15.72dBm (Conducted)
Type of Modulation:	DBPSK, BPSK, DQPSK, QPSK,16QAM, 64QAM, 256QAM, 1024QAM
Data Rate:	1-11Mbps, 6-54Mbps, up to 574Mbps
Quantity of Channels:	11 for 802.11b/g/n(HT20)/AX(EH20) 7 for 802.11n(HT40)/AX(HE40)
Channel Separation:	5MHz
Type of Antenna:	External Antenna
Antenna Gain:	5.0dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the FCC rules.

662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 662911 D01 Multiple Transmitter Output v02r01

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F, Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (Shenzhen) Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11ax-HE20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM5	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz
TM6	802.11ax-HE40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
AC Cable	1.5	Unshielded	Without Ferrite

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due Date
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2020-04-28	2021-04-27
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2020-04-28	2021-04-27
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2020-04-28	2021-04-27
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2020-04-28	2021-04-27
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2020-04-28	2021-04-27
SEMT-1011	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2019-05-05	2021-05-04
SEMT-1042	Horn Antenna	ETS	3117	00086197	2019-05-05	2021-05-04
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2019-05-05	2021-05-04
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2019-05-05	2021-05-04
SEMT-1001	EMI Test Receiver	Rohde & Schwarz	ESPI	101611	2020-04-28	2021-04-27
SEMT-1003	L.I.S.N	Schwarz beck	NSLK8126	8126-224	2020-04-28	2021-04-27
SEMT-1002	Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100911	2020-04-28	2021-04-27
SEMT-1168	Pre-amplifier	Direction Systems Inc.	PAP-0126	14141-12838	2020-04-28	2021-04-27
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2020-04-28	2021-04-27
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2020-04-28	2021-04-27
SEMT-1170	DRG Horn Antenna	A.H. SYSTEMS	SAS-574	571	2019-05-05	2021-05-04
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2020-04-28	2021-04-27
SEMT-1048	RF Limiter	ATTEN	AT-BSF-2400~2500	/	2020-04-28	2021-04-27
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2020-04-28	2021-04-27
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	2020-03-17	2021-03-16
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	2020-03-17	2021-03-16
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	2020-03-17	2021-03-16
SEMT-C004	Cable	Zheng DI	2M0RFC	/	2020-03-17	2021-03-16
SEMT-C005	Cable	Zheng DI	1M0RFC	/	2020-03-17	2021-03-16
SEMT-C006	Cable	Zheng DI	1M0RFC	/	2020-03-17	2021-03-16

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

This product has two External antennas, fulfill the requirement of this section.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(a)(1)(iii), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

4.4 Summary of Test Results/Plots

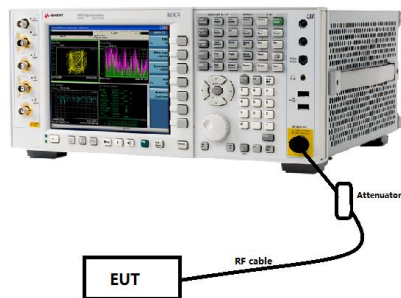
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- Set RBW = 100 kHz.
- Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

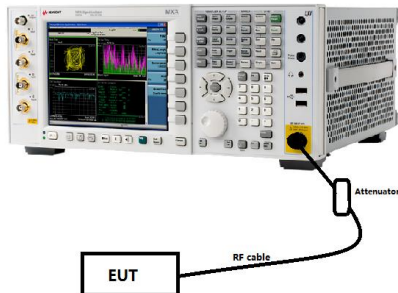
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.2.2 and ANSI C63.10-2013 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1 MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run” .
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100 kHz 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 20 dB below that in the 100 kHz 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

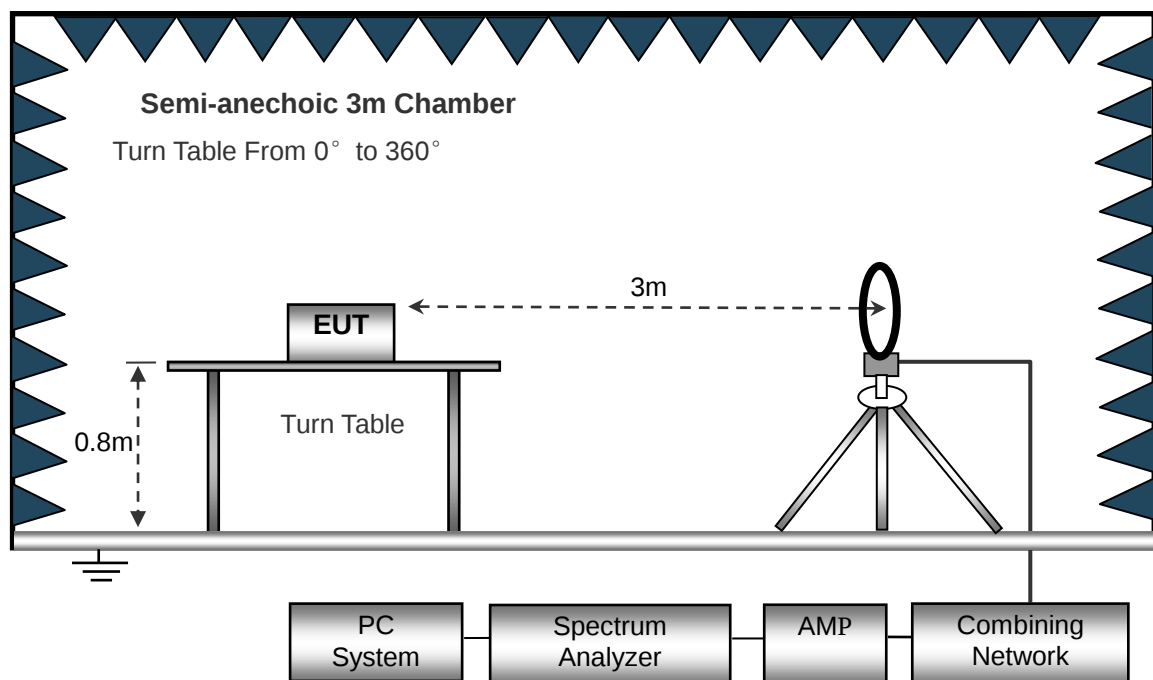
7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

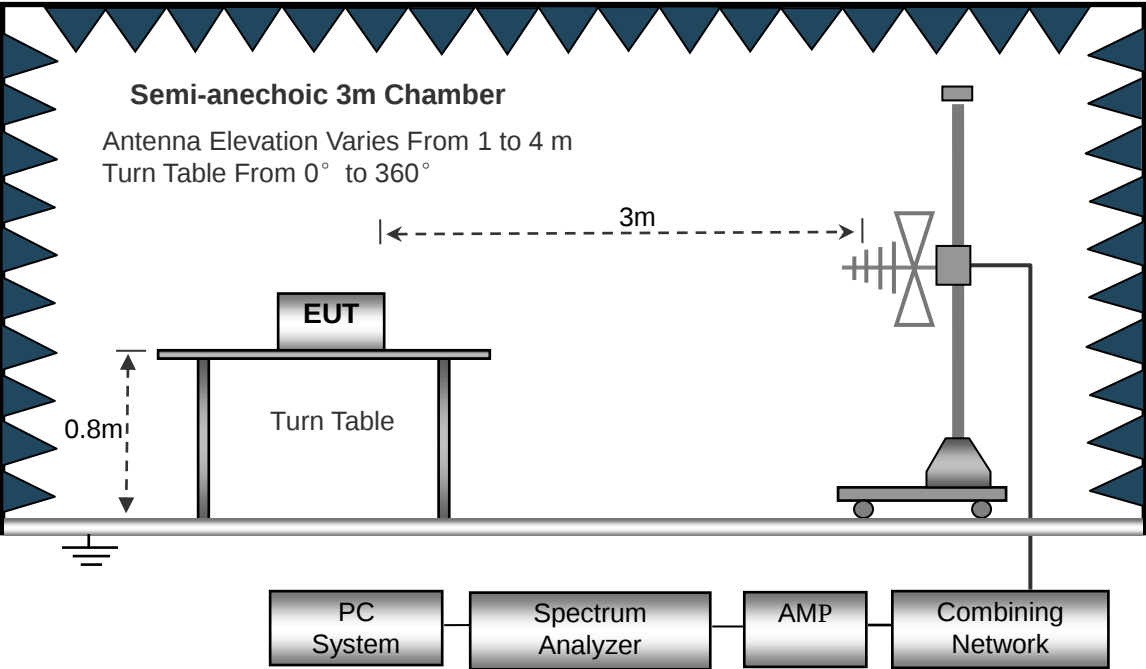
The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

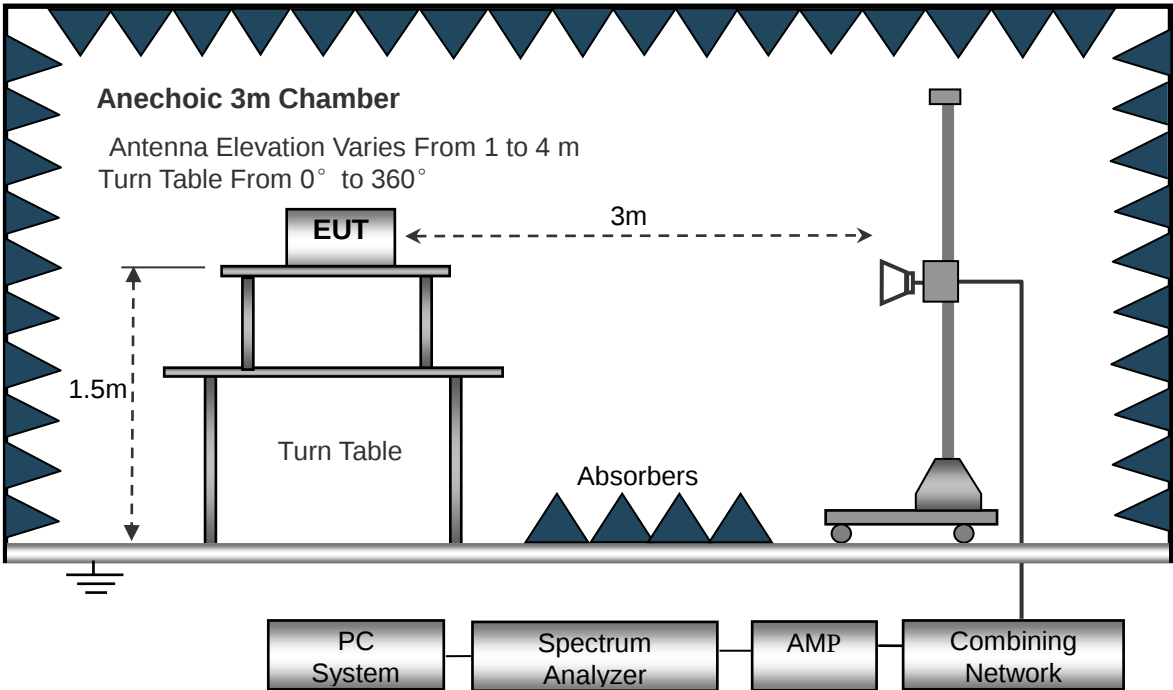
The test setup for emission measurement below 30MHz..



The test setup for emission measurement from 30 MHz to 1 GHz..



The test setup for emission measurement above 1 GHz..



Frequency :9kHz-30MHz	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

7.3 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and the Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

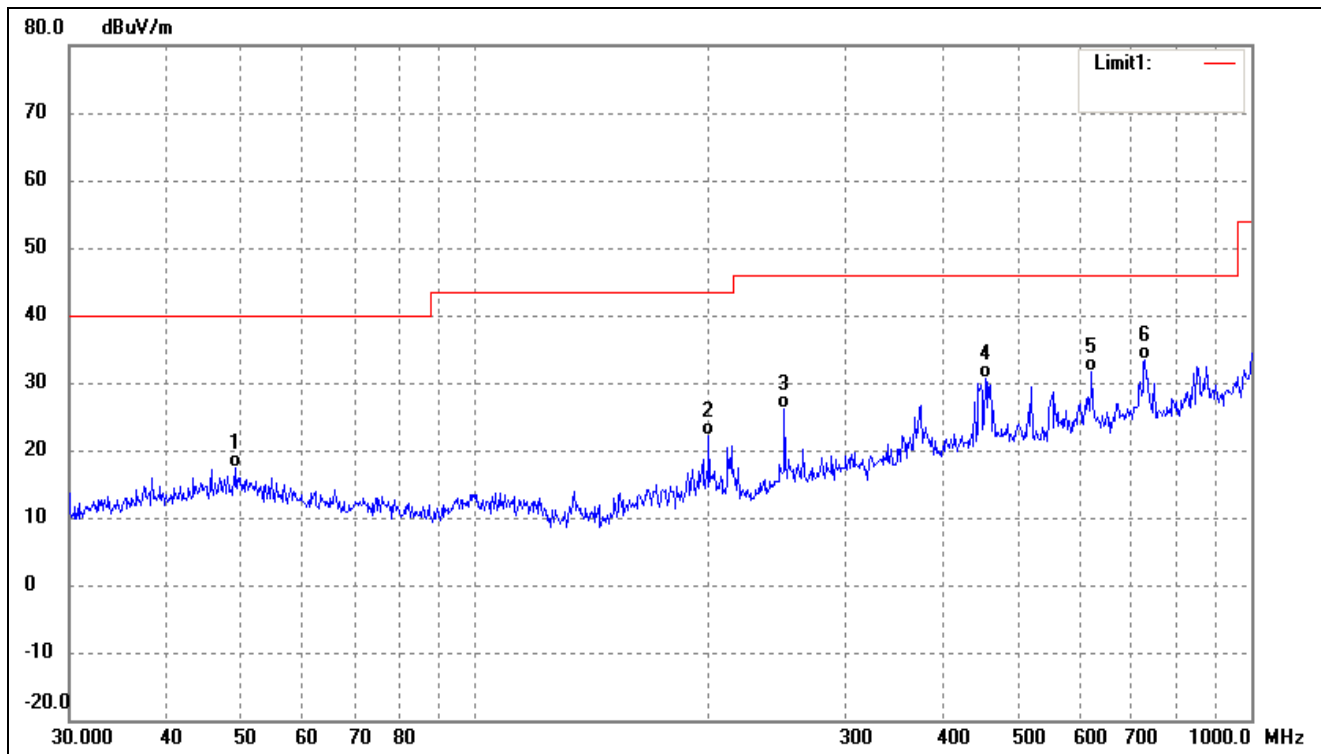
7.4 Summary of Test Results/Plots

Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b_11Mbps) is recorded in this report.

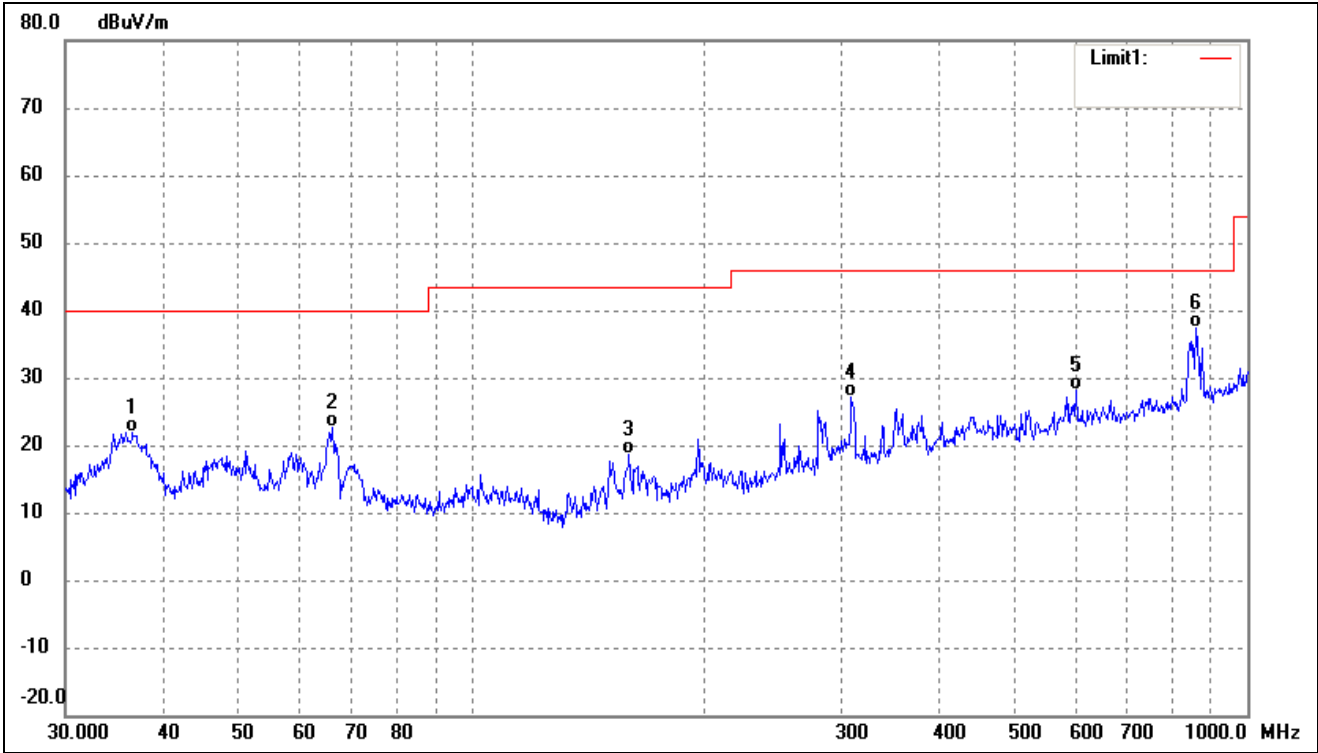
- Spurious Emissions Below 1GHz
- Worst case Antenna 1

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal



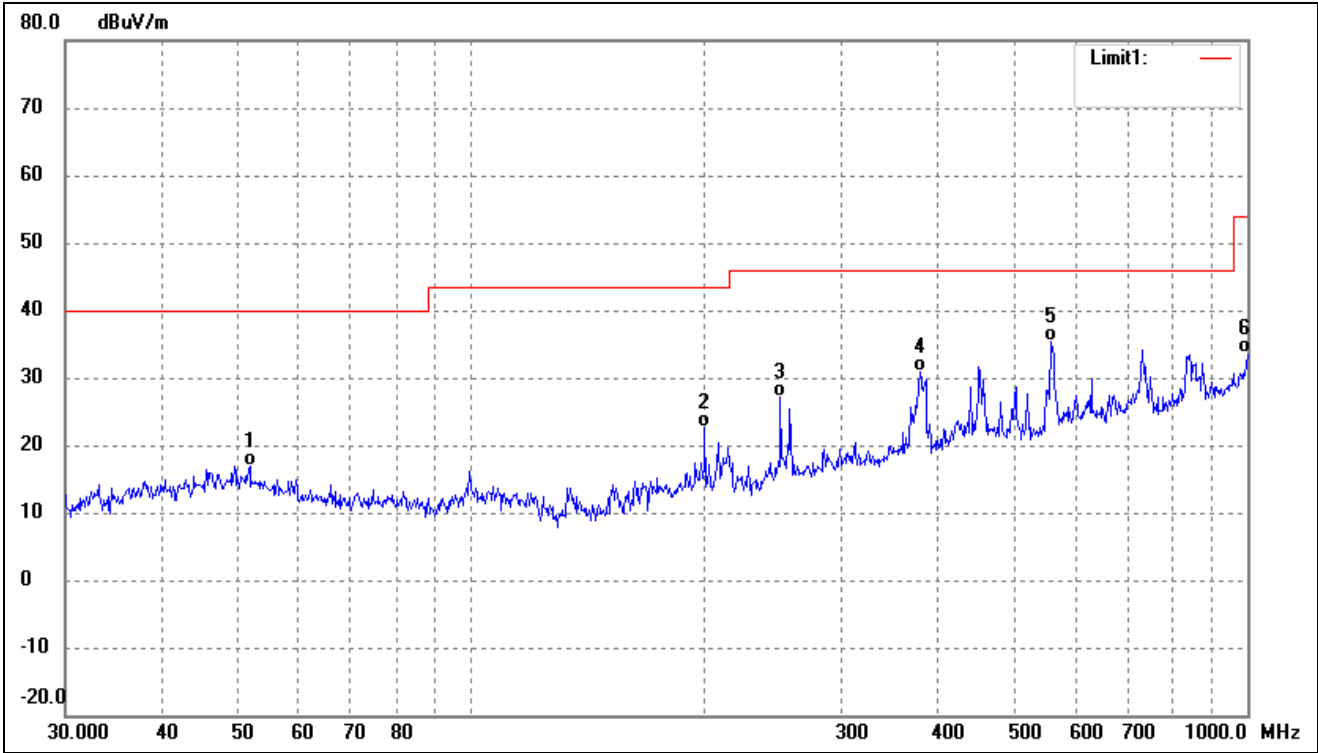
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.1866	27.58	-10.25	17.33	40.00	-22.67	-	-	QP
2	199.9856	33.42	-11.30	22.12	43.50	-21.38	-	-	QP
3	250.3012	35.39	-9.29	26.10	46.00	-19.90	-	-	QP
4	454.3100	35.21	-4.69	30.52	46.00	-15.48	-	-	QP
5	622.8900	34.11	-2.38	31.73	46.00	-14.27	-	-	QP
6	729.3583	34.43	-1.15	33.28	46.00	-12.72	-	-	QP

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical



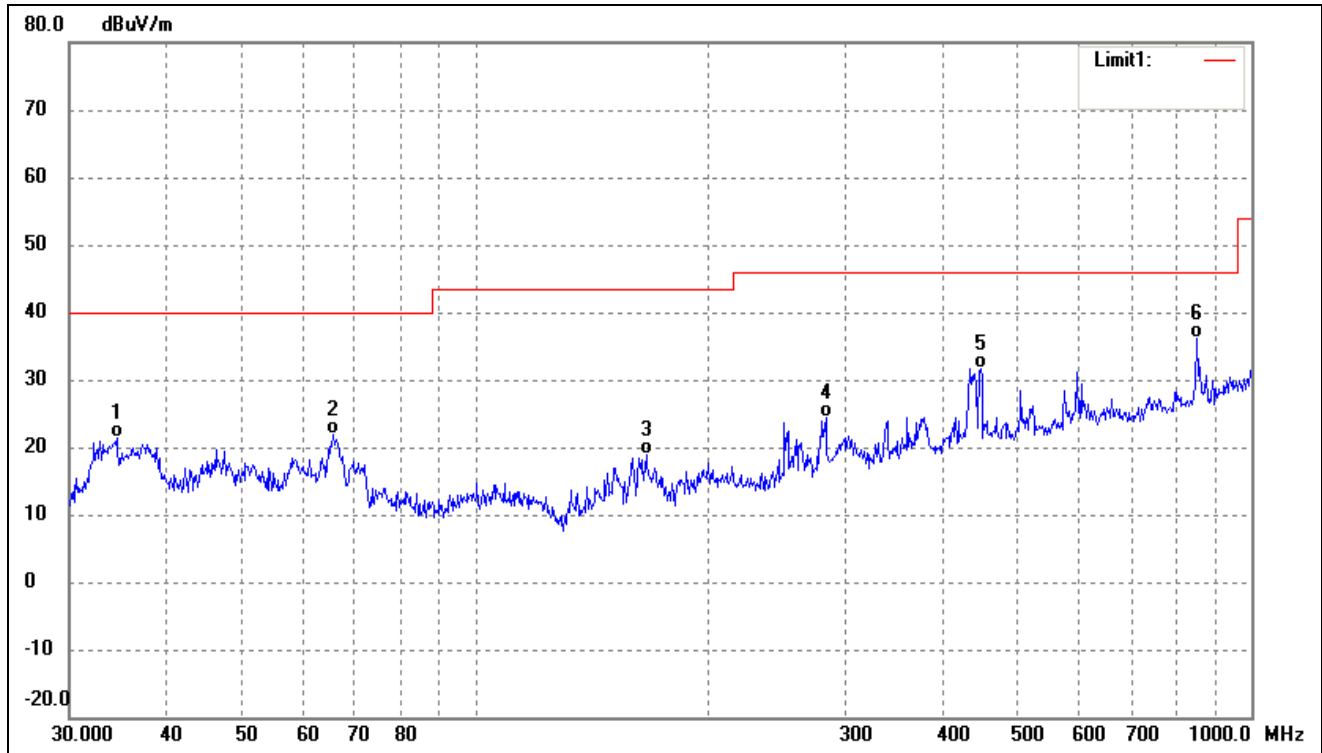
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.6375	34.18	-12.34	21.84	40.00	-18.16	-	-	QP
2	66.2662	35.85	-13.29	22.56	40.00	-17.44	-	-	QP
3	159.7844	32.95	-14.32	18.63	43.50	-24.87	-	-	QP
4	308.9126	34.43	-7.29	27.14	46.00	-18.86	-	-	QP
5	601.4265	30.33	-2.29	28.04	46.00	-17.96	-	-	QP
6	857.0247	36.47	0.79	37.26	46.00	-8.74	-	-	QP

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Horizontal



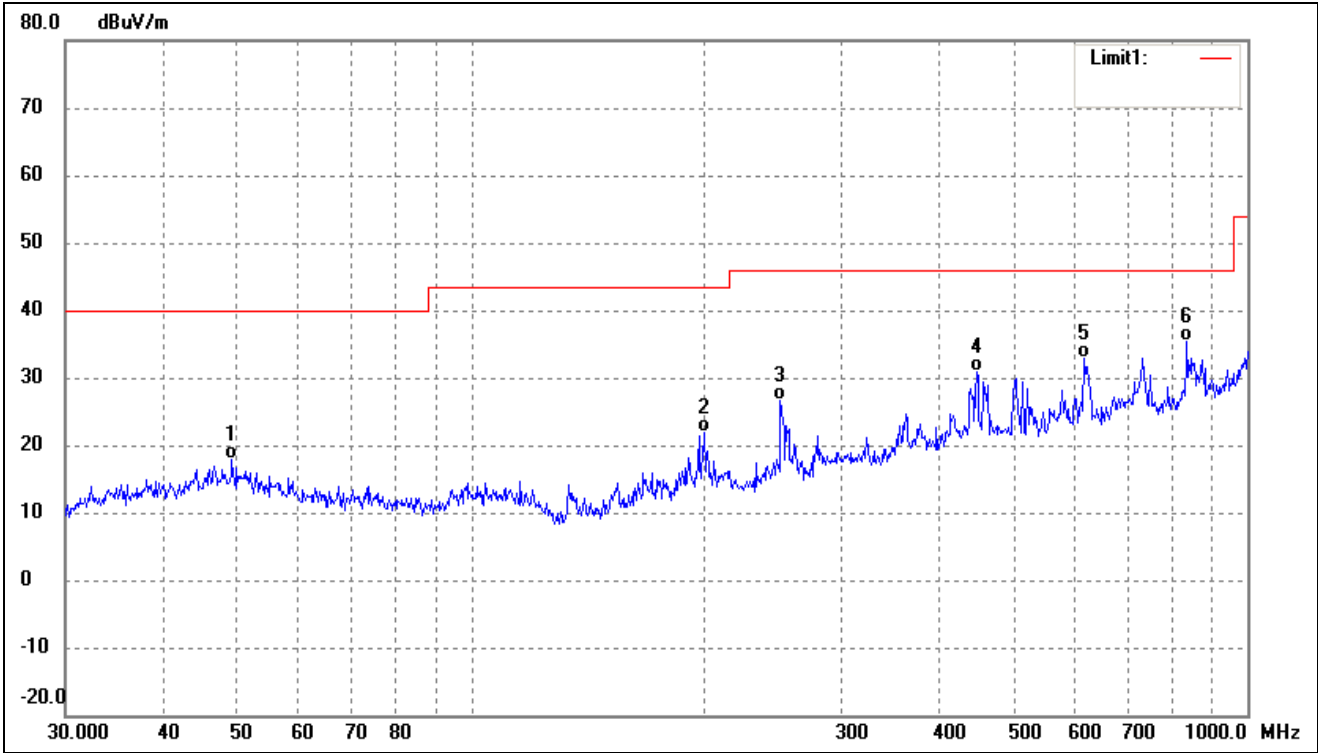
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.8430	27.51	-10.59	16.92	40.00	-23.08	-	-	QP
2	199.9856	33.81	-11.30	22.51	43.50	-20.99	-	-	QP
3	250.3012	36.37	-9.29	27.08	46.00	-18.92	-	-	QP
4	378.5843	36.51	-5.68	30.83	46.00	-15.17	-	-	QP
5	558.7302	38.66	-3.35	35.31	46.00	-10.69	-	-	QP
6	1000.0000	30.56	3.10	33.66	54.00	-20.34	-	-	QP

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Vertical



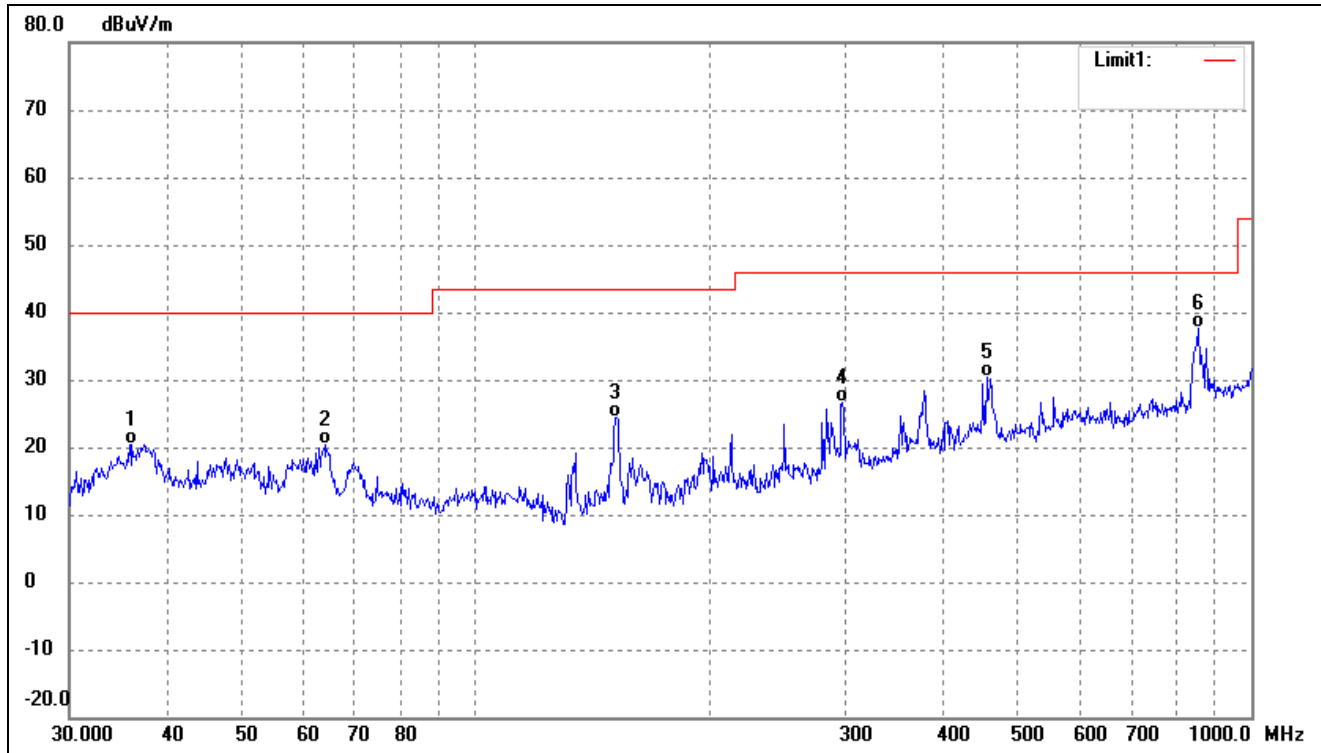
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	34.5173	34.06	-12.74	21.32	40.00	-18.68	-	-	QP
2	65.5727	34.99	-13.14	21.85	40.00	-18.15	-	-	QP
3	166.0680	32.82	-13.93	18.89	43.50	-24.61	-	-	QP
4	282.9852	32.73	-8.23	24.50	46.00	-21.50	-	-	QP
5	447.9822	36.11	-4.56	31.55	46.00	-14.45	-	-	QP
6	851.0353	35.50	0.69	36.19	46.00	-9.81	-	-	QP

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.1866	28.14	-10.25	17.89	40.00	-22.11	-	-	QP
2	199.9856	33.19	-11.30	21.89	43.50	-21.61	-	-	QP
3	250.3012	35.93	-9.29	26.64	46.00	-19.36	-	-	QP
4	447.9822	35.32	-4.56	30.76	46.00	-15.24	-	-	QP
5	616.3718	35.30	-2.35	32.95	46.00	-13.05	-	-	QP
6	836.2443	34.93	0.45	35.38	46.00	-10.62	-	-	QP

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	36.1272	32.85	-12.42	20.43	40.00	-19.57	-	-	QP
2	63.9828	33.30	-12.89	20.41	40.00	-19.59	-	-	QP
3	151.5972	39.23	-14.77	24.46	43.50	-19.04	-	-	QP
4	297.2241	34.12	-7.39	26.73	46.00	-19.27	-	-	QP
5	455.9058	35.01	-4.73	30.28	46.00	-15.72	-	-	QP
6	854.0247	36.78	0.73	37.51	46.00	-8.49	-	-	QP

Remark: '-' Means the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- Test Mode: 802.11b_11Mbps(Worst mode)
- Antenna 1

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	61.73	-3.86	57.87	74	-16.13	H	PK
4824.000	43.58	-3.86	39.72	54	-14.28	H	AV
7236.000	58.06	1.10	59.16	74	-14.84	H	PK
7236.000	38.41	1.10	39.51	54	-14.49	H	AV
4824.000	60.35	-3.86	56.49	74	-17.51	V	PK
4824.000	46.71	-3.86	42.85	54	-11.15	V	AV
7236.000	60.14	1.10	61.24	74	-12.76	V	PK
7236.000	38.93	1.10	40.03	54	-13.97	V	AV
Middle Channel-2437MHz							
4874.000	61.28	-3.74	57.54	74	-16.46	H	PK
4874.000	42.98	-3.74	39.24	54	-14.76	H	AV
7311.000	57.61	1.47	59.08	74	-14.92	H	PK
7311.000	39.44	1.47	40.91	54	-13.09	H	AV
4874.000	59.93	-3.74	56.19	74	-17.81	V	PK
4874.000	46.59	-3.74	42.85	54	-11.15	V	AV
7311.000	59.83	1.47	61.30	74	-12.70	V	PK
7311.000	38.83	1.47	40.30	54	-13.70	V	AV
High Channel-2462MHz							
4924.000	62.14	-3.63	58.51	74	-15.49	H	PK
4924.000	43.21	-3.63	39.58	54	-14.42	H	AV
7386.000	58.10	1.62	59.72	74	-14.28	H	PK
7386.000	38.22	1.62	39.84	54	-14.16	H	AV
4924.000	60.92	-3.63	57.29	74	-16.71	V	PK
4924.000	46.26	-3.63	42.63	54	-11.37	V	AV
7386.000	59.85	1.62	61.47	74	-12.53	V	PK
7386.000	38.75	1.62	40.37	54	-13.63	V	AV

Antenna 2

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	62.37	-3.86	58.51	74	-15.49	H	PK
4824.000	42.99	-3.86	39.13	54	-14.87	H	AV
7236.000	58.79	1.10	59.89	74	-14.11	H	PK
7236.000	38.88	1.10	39.98	54	-14.02	H	AV
4824.000	60.72	-3.86	56.86	74	-17.14	V	PK
4824.000	45.76	-3.86	41.90	54	-12.10	V	AV
7236.000	59.72	1.10	60.82	74	-13.18	V	PK
7236.000	39.57	1.10	40.67	54	-13.33	V	AV
Middle Channel-2437MHz							
4874.000	61.77	-3.74	58.03	74	-15.97	H	PK
4874.000	43.40	-3.74	39.66	54	-14.34	H	AV
7311.000	58.68	1.47	60.15	74	-13.85	H	PK
7311.000	38.45	1.47	39.92	54	-14.08	H	AV
4874.000	60.52	-3.74	56.78	74	-17.22	V	PK
4874.000	45.82	-3.74	42.08	54	-11.92	V	AV
7311.000	60.14	1.47	61.61	74	-12.39	V	PK
7311.000	39.69	1.47	41.16	54	-12.84	V	AV
High Channel-2462MHz							
4924.000	62.08	-3.63	58.45	74	-15.55	H	PK
4924.000	43.39	-3.63	39.76	54	-14.24	H	AV
7386.000	57.79	1.62	59.41	74	-14.59	H	PK
7386.000	38.87	1.62	40.49	54	-13.51	H	AV
4924.000	60.34	-3.63	56.71	74	-17.29	V	PK
4924.000	46.66	-3.63	43.03	54	-10.97	V	AV
7386.000	59.74	1.62	61.36	74	-12.64	V	PK
7386.000	39.24	1.62	40.86	54	-13.14	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100 kHz 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 20 dB below that in the 100 kHz 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. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100 kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement

KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) $VBW \geq [3 \times RBW]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

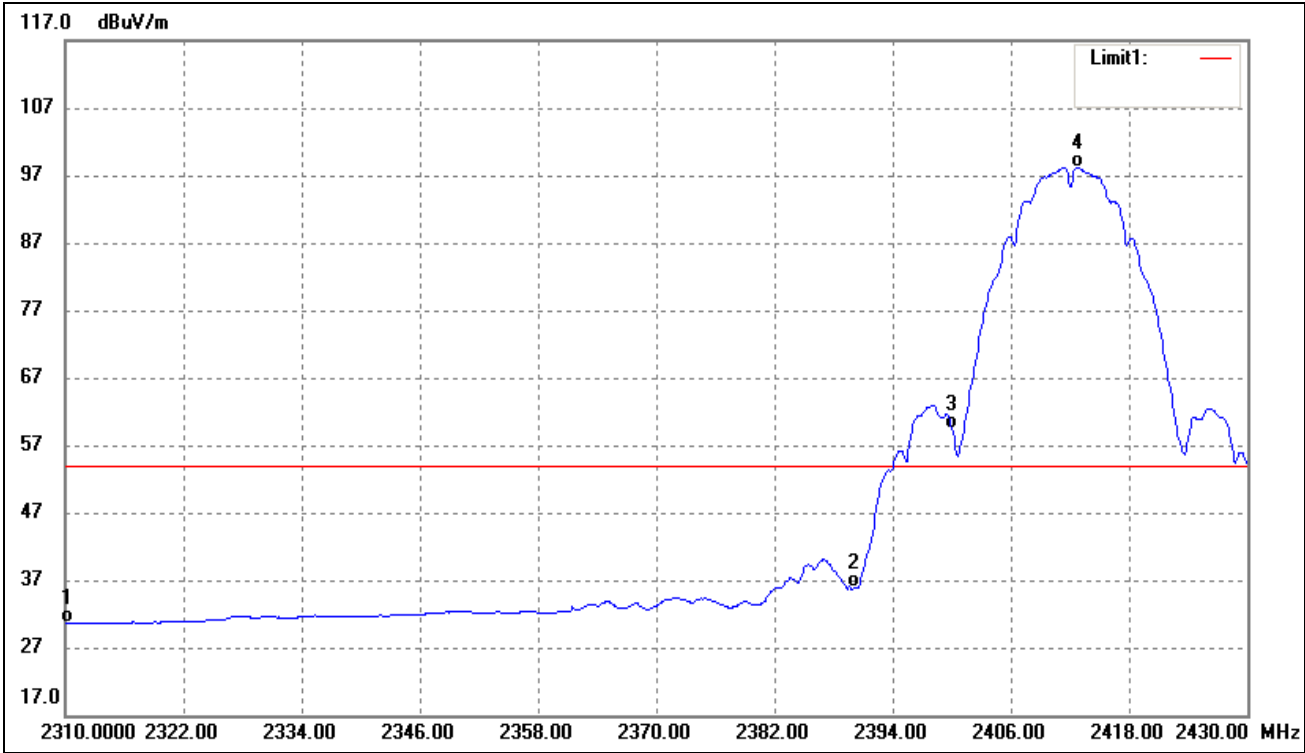
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

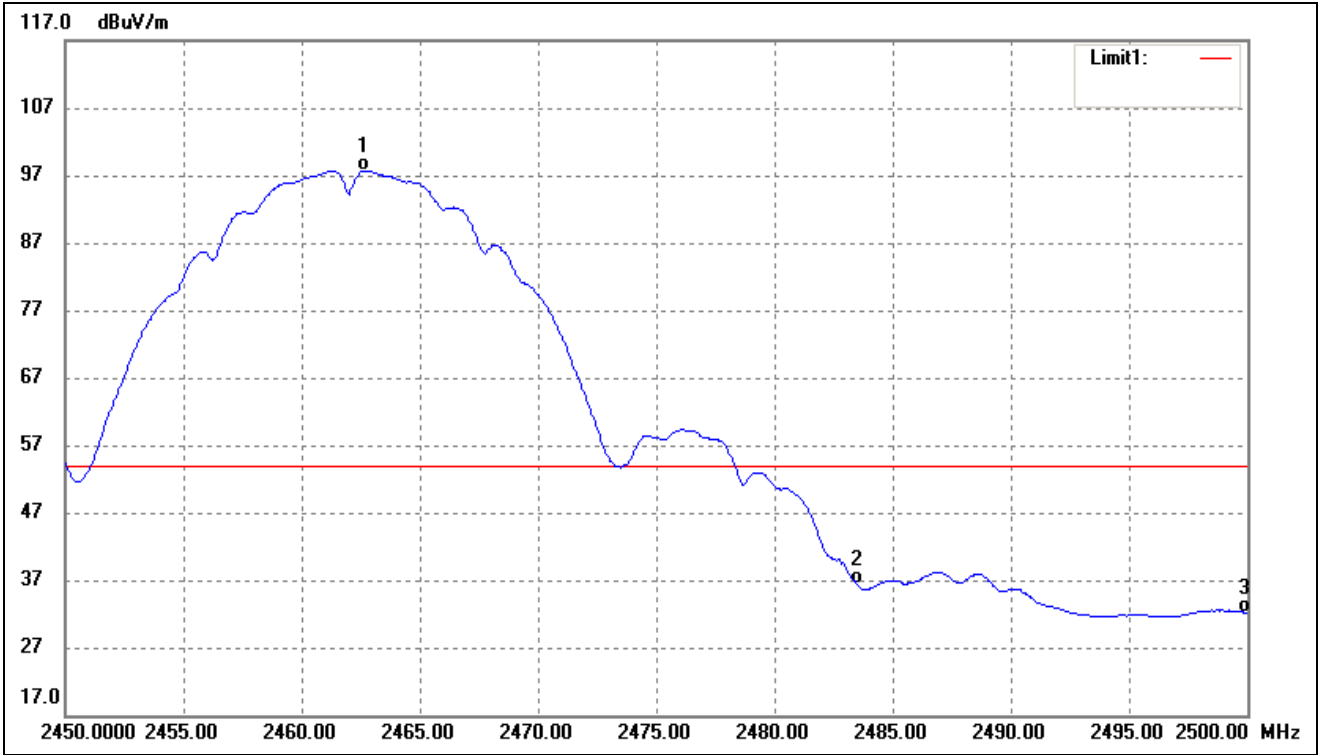
- Radiated test
- Antenna 1(worst case)

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



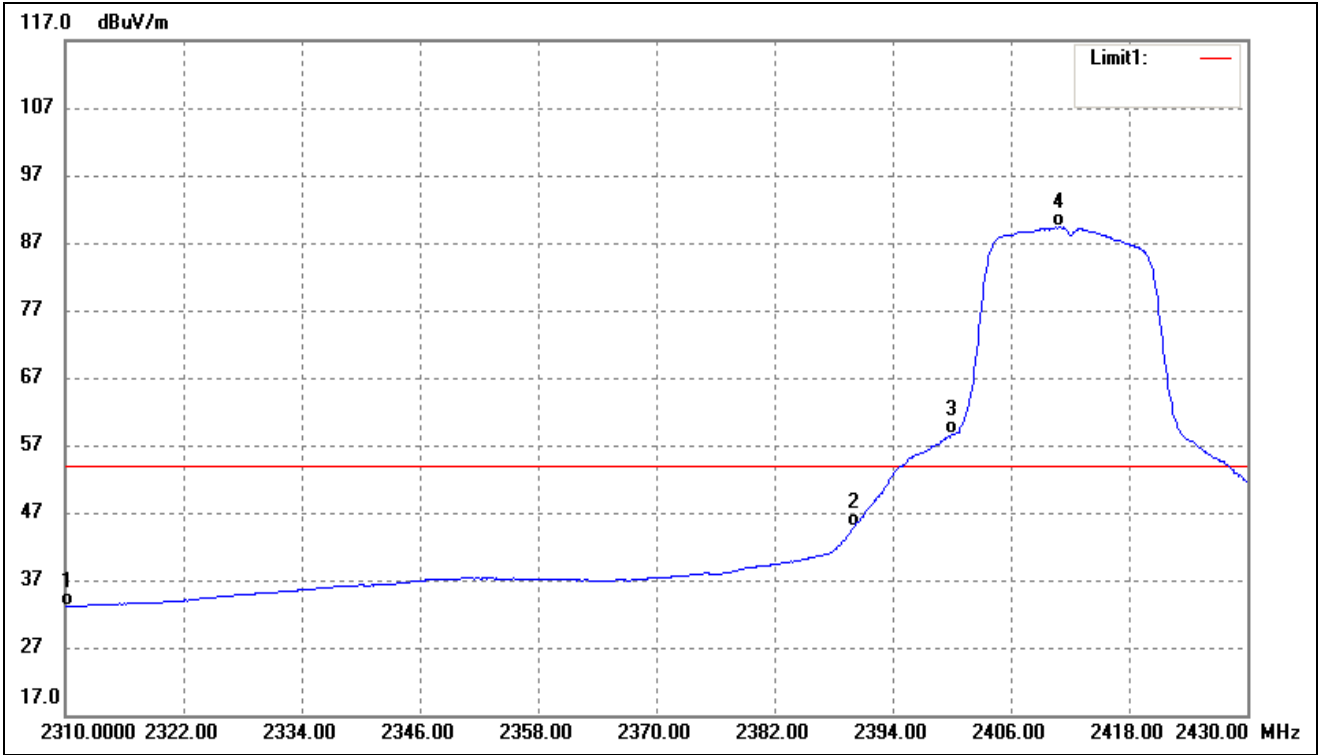
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	40.18	-9.66	30.52	54.00	-23.48	Average Detector
	2310.000	51.53	-9.66	41.87	74.00	-32.13	Peak Detector
2	2390.000	45.31	-9.50	35.81	54.00	-18.19	Average Detector
	2390.000	57.56	-9.50	48.06	74.00	-25.94	Peak Detector
3	2400.000	68.86	-9.48	59.38	Delta=38.84dBc		Average Detector
4	2412.720	107.68	-9.46	98.22			Average Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



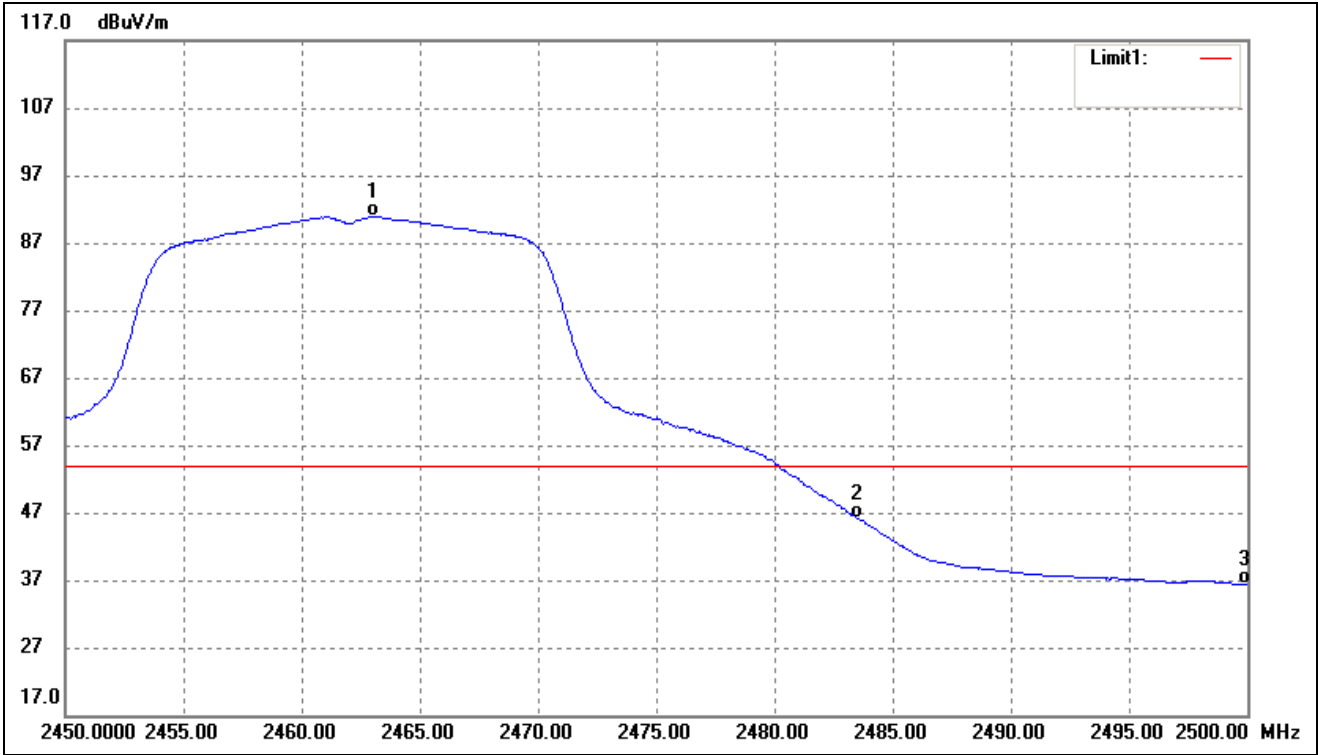
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.650	107.08	-9.36	97.72	/	/	Average Detector
	2460.400	113.04	-9.36	103.68	/	/	Peak Detector
2	2483.500	45.59	-9.31	36.28	54.00	-17.72	Average Detector
	2483.500	57.63	-9.31	48.32	74.00	-25.68	Peak Detector
3	2500.000	41.43	-9.28	32.15	54.00	-21.85	Average Detector
	2500.000	54.87	-9.28	45.59	74.00	-28.41	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



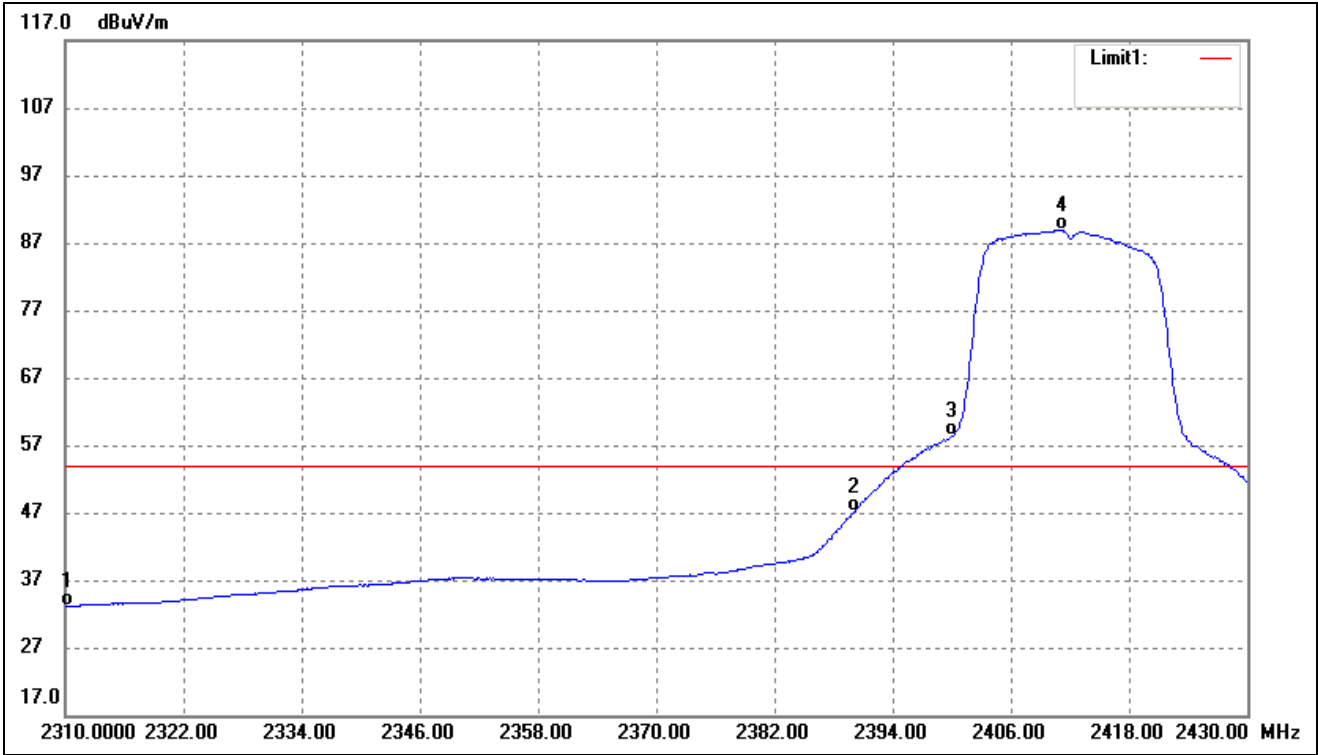
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.75	-9.66	33.09	54.00	-20.91	Average Detector
	2310.000	55.53	-9.66	45.87	74.00	-28.13	Peak Detector
2	2390.000	54.32	-9.50	44.82	54.00	-9.18	Average Detector
	2390.000	71.34	-9.50	61.84	74.00	-12.16	Peak Detector
3	2400.000	68.11	-9.48	58.63	Delta=33.78dBc		Average Detector
4	2410.920	98.79	-9.46	89.33			Average Detector

802.11g_54Mbps			
Test Channel	High	Polarity:	Vertical(worst case)



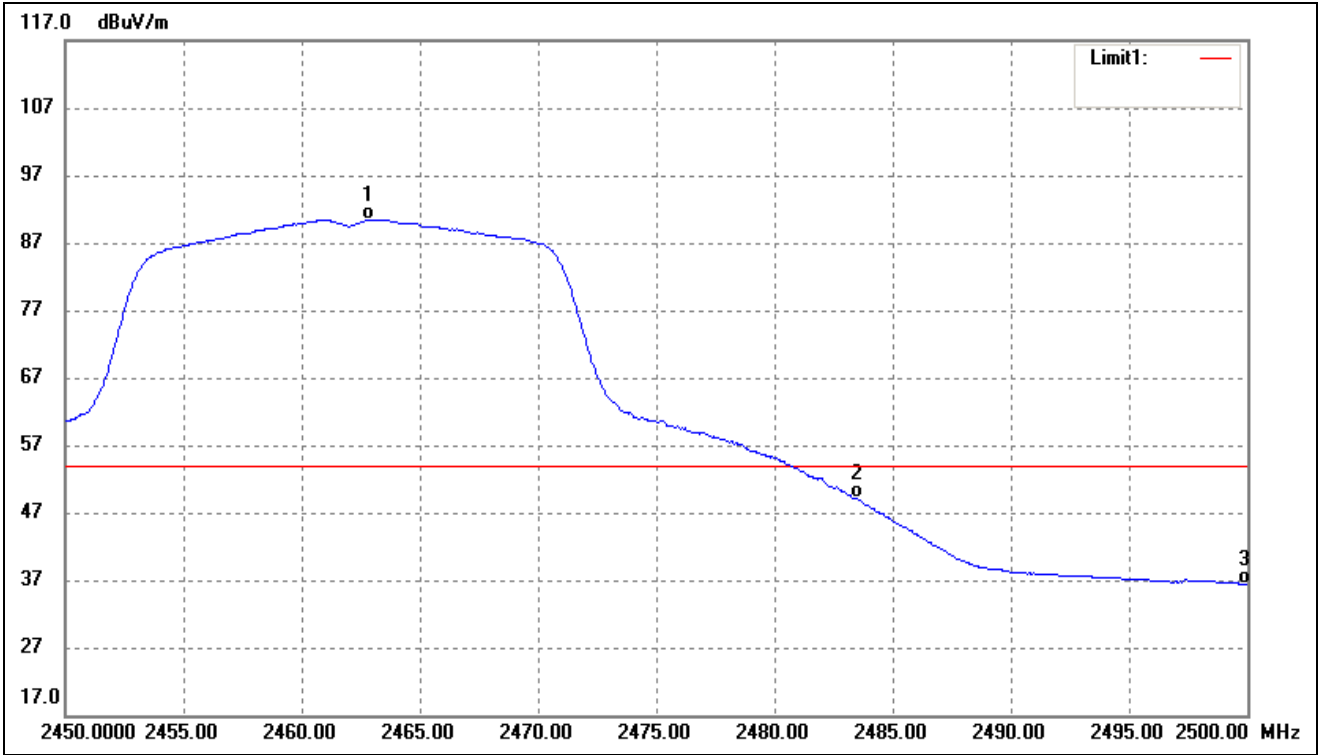
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.000	100.22	-9.36	90.86	/	/	Average Detector
	2464.400	113.08	-9.35	103.73	/	/	Peak Detector
2	2483.500	55.49	-9.31	46.18	54.00	-7.82	Average Detector
	2483.500	74.10	-9.31	64.79	74.00	-9.21	Peak Detector
3	2500.000	45.55	-9.28	36.27	54.00	-17.73	Average Detector
	2500.000	59.65	-9.28	50.37	74.00	-23.63	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



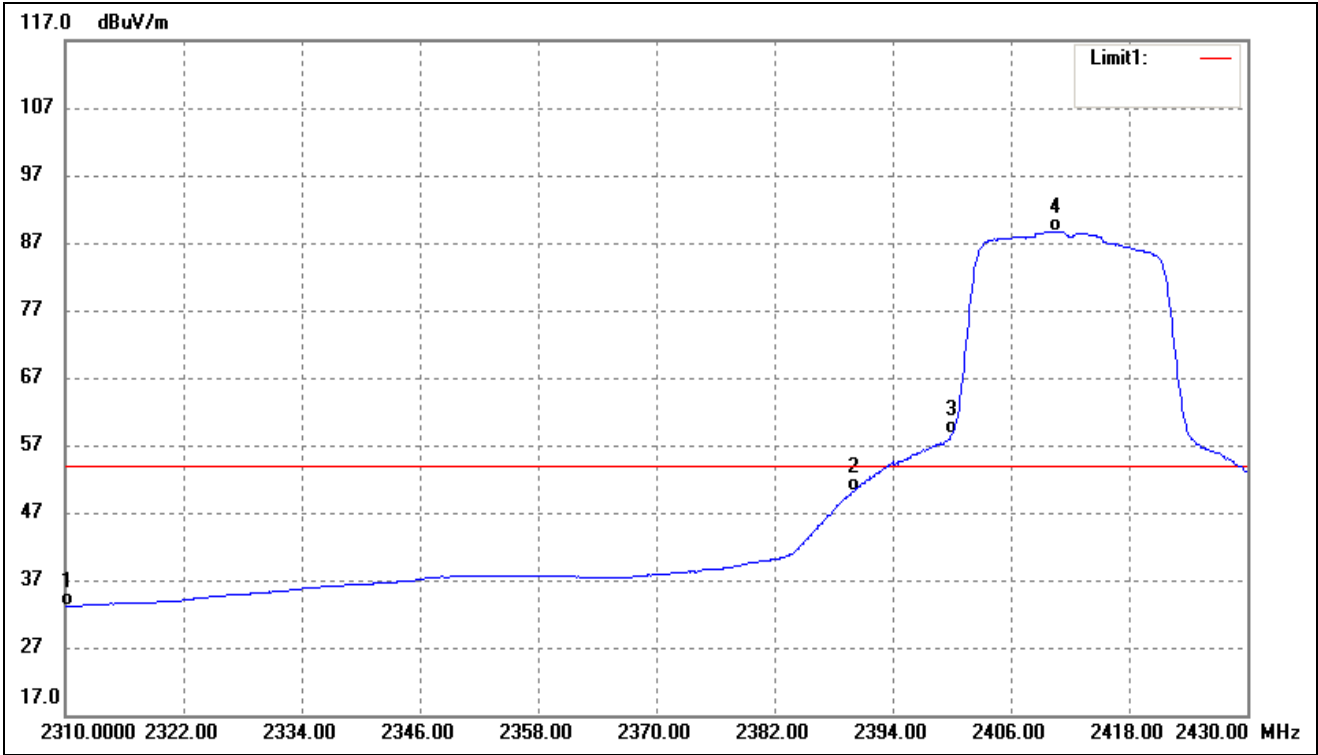
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.74	-9.66	33.08	54.00	-20.92	Average Detector
	2310.000	55.95	-9.66	46.29	74.00	-27.71	Peak Detector
2	2390.000	56.64	-9.50	47.14	54.00	-6.86	Average Detector
	2390.000	77.75	-9.50	68.25	74.00	-5.75	Peak Detector
3	2400.000	67.90	-9.48	58.42	Delta=30.50 dBc		Average Detector
4	2411.160	98.38	-9.46	88.92			Average Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



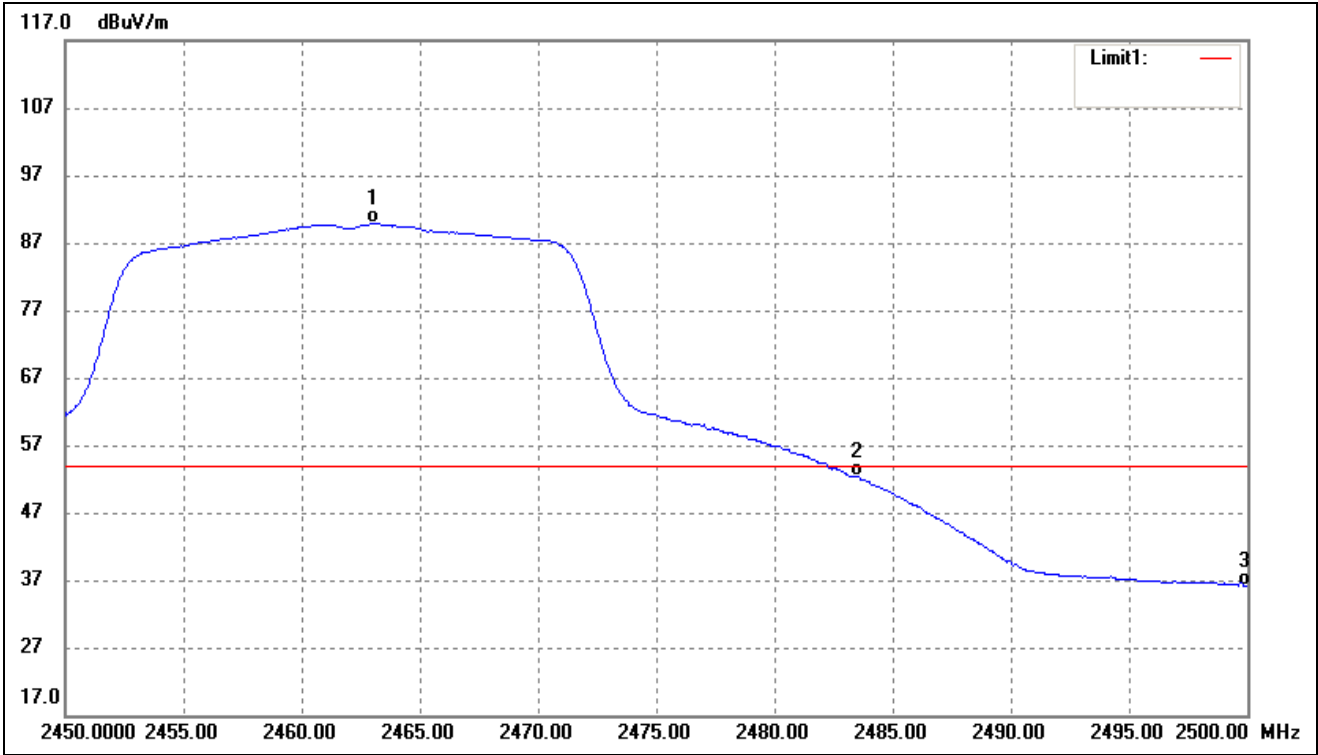
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.850	99.85	-9.36	90.49	/	/	Average Detector
	2463.800	113.43	-9.35	104.08	/	/	Peak Detector
2	2483.500	58.51	-9.31	49.20	54.00	-4.80	Average Detector
	2483.500	79.49	-9.31	70.18	74.00	-3.82	Peak Detector
3	2500.000	45.69	-9.28	36.41	54.00	-17.59	Average Detector
	2500.000	58.23	-9.28	48.95	74.00	-25.05	Peak Detector

802.11ax-HE20			
Test Channel	Low	Polarity:	Vertical(worst case)



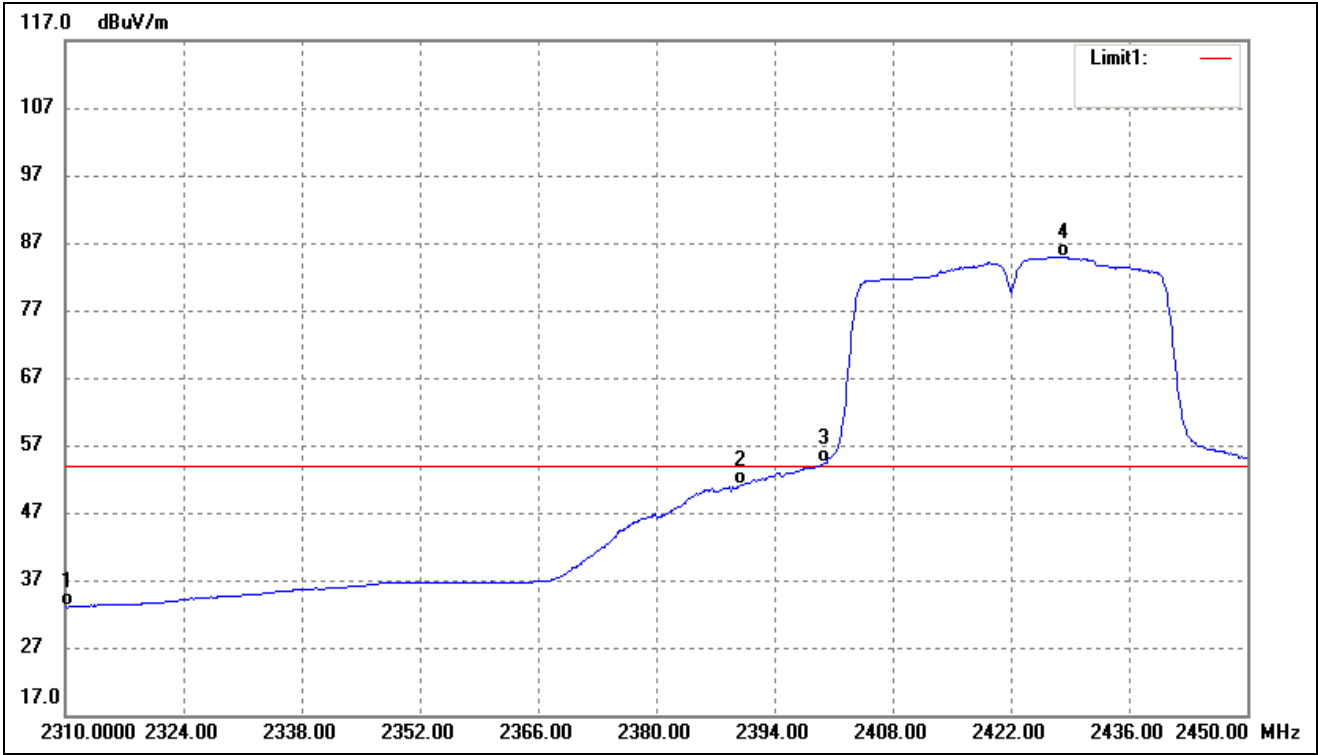
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.75	-9.66	33.09	54.00	-20.91	Average Detector
	2310.000	54.79	-9.66	45.13	74.00	-28.87	Peak Detector
2	2390.000	59.59	-9.50	50.09	54.00	-3.91	Average Detector
	2390.000	78.72	-9.50	69.22	74.00	-4.78	Peak Detector
3	2400.000	68.12	-9.48	58.64	Delta=30.05dBc		Average Detector
4	2410.560	98.15	-9.46	88.69			Average Detector

802.11ax-HE20			
Test Channel	High	Polarity:	Vertical(worst case)



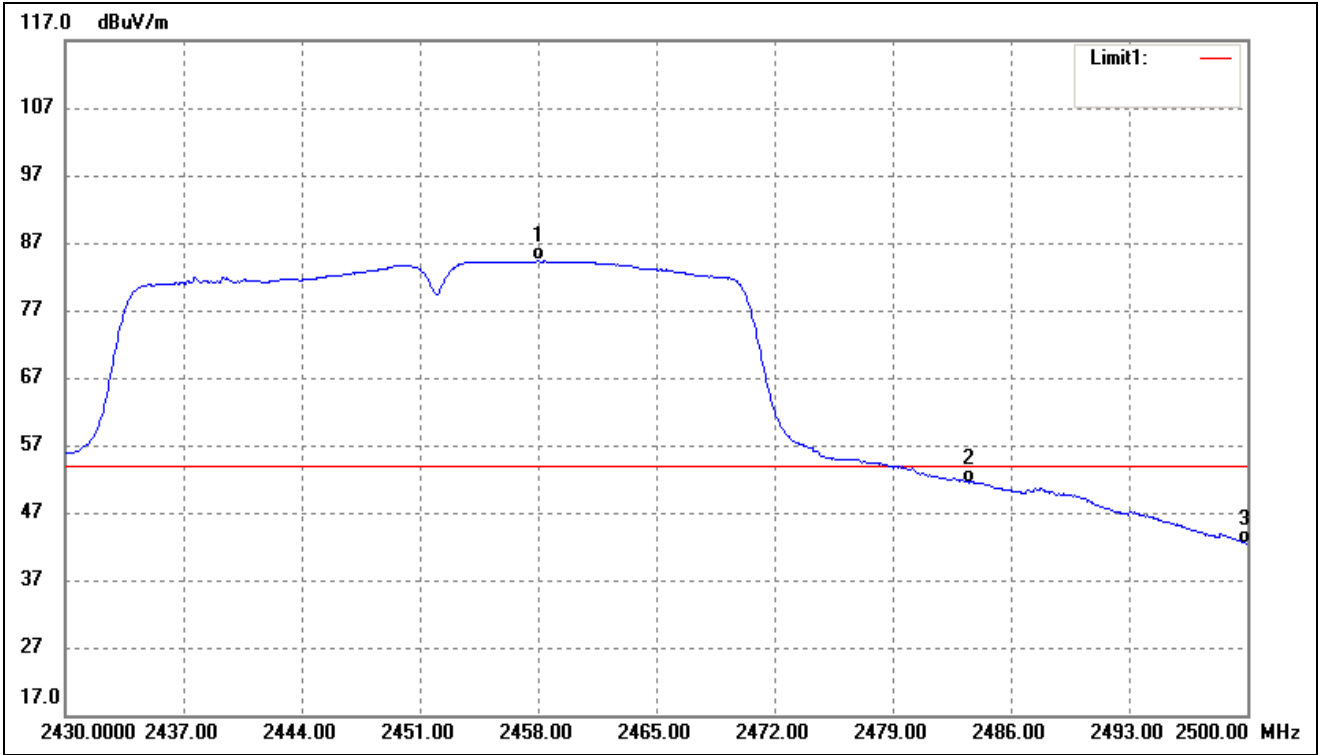
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.000	99.19	-9.36	89.83	/	/	Average Detector
	2462.750	111.25	-9.36	101.89	/	/	Peak Detector
2	2483.500	61.67	-9.31	52.36	54.00	-1.64	Average Detector
	2483.500	75.27	-9.31	65.96	74.00	-8.04	Peak Detector
3	2500.000	45.32	-9.28	36.04	54.00	-17.96	Average Detector
	2500.000	55.39	-9.28	46.11	74.00	-27.89	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Vertical(worst case)



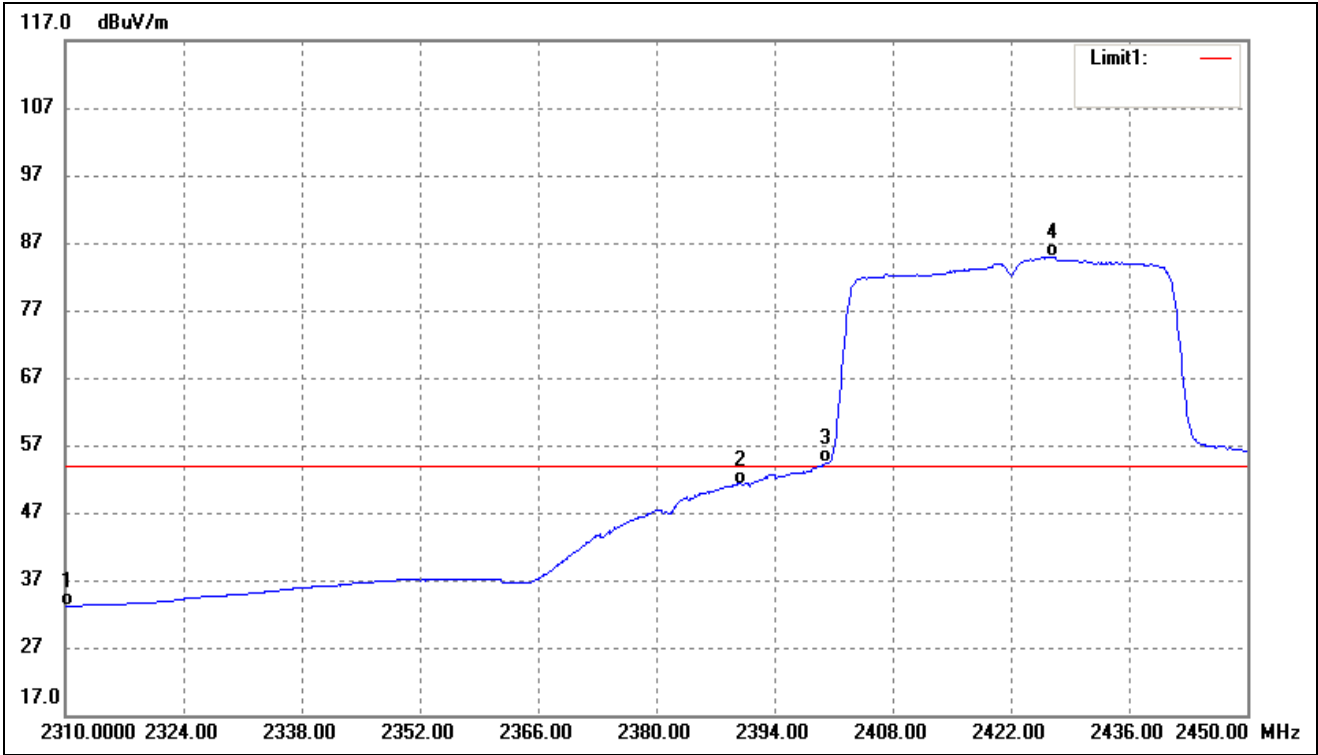
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.70	-9.66	33.04	54.00	-20.96	Average Detector
	2310.000	55.55	-9.66	45.89	74.00	-28.11	Peak Detector
2	2390.000	60.52	-9.50	51.02	54.00	-2.98	Average Detector
	2390.000	79.52	-9.50	70.02	74.00	-3.98	Peak Detector
3	2400.000	63.90	-9.48	54.42	Delta=30.56dBc		Average Detector
4	2428.160	94.41	-9.43	84.98			Average Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Vertical(worst case)



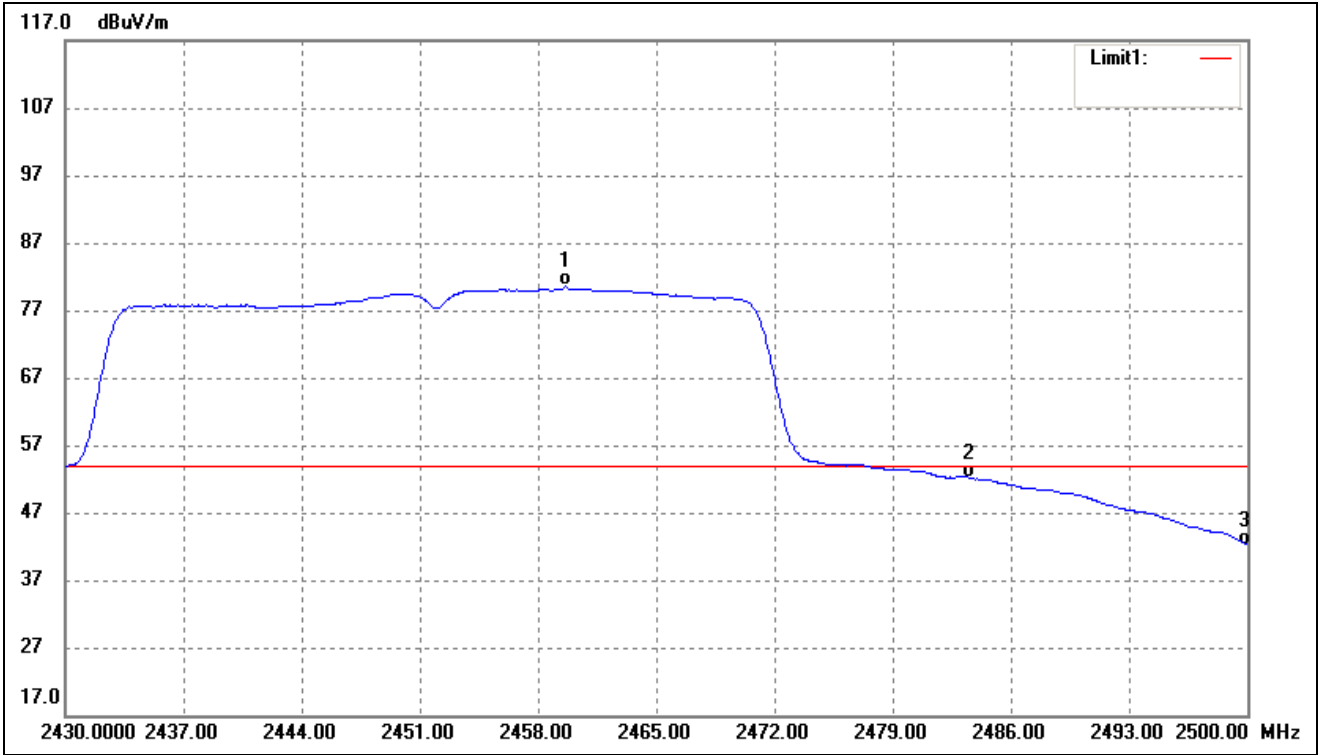
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2458.070	93.67	-9.36	84.31	/	/	Average Detector
	2454.290	105.51	-9.37	96.14	/	/	Peak Detector
2	2483.500	60.79	-9.31	51.48	54.00	-2.52	Average Detector
	2483.500	75.06	-9.31	65.75	74.00	-8.25	Peak Detector
3	2500.000	51.66	-9.28	42.38	54.00	-11.62	Average Detector
	2500.000	64.83	-9.28	55.55	74.00	-18.45	Peak Detector

802.11ax-HE40			
Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.76	-9.66	33.10	54.00	-20.90	Average Detector
	2310.000	54.07	-9.66	44.41	74.00	-29.59	Peak Detector
2	2390.000	60.75	-9.50	51.25	54.00	-2.75	Average Detector
	2390.000	79.94	-9.50	70.44	74.00	-3.56	Peak Detector
3	2400.000	63.74	-9.48	54.26	Delta=30.68dBc		Average Detector
4	2426.900	94.37	-9.43	84.94			Average Detector

802.11ax-HE40			
Test Channel	High	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.610	89.92	-9.36	80.56	/	/	Average Detector
	2455.270	108.91	-9.37	99.54	/	/	Peak Detector
2	2483.500	61.51	-9.31	52.20	54.00	-1.80	Average Detector
	2483.500	78.50	-9.31	69.19	74.00	-4.81	Peak Detector
3	2500.000	51.46	-9.28	42.18	54.00	-11.82	Average Detector
	2500.000	66.90	-9.28	57.62	74.00	-16.38	Peak Detector

➤ Conducted test

Please refer to Appendix D

9. Conducted Emissions

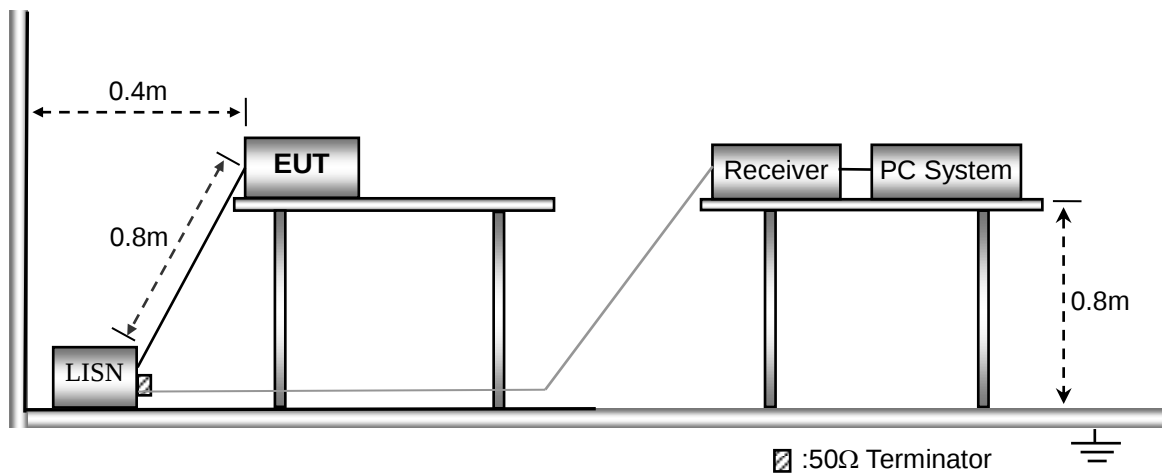
9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

9.2 Basic Test Setup Block Diagram



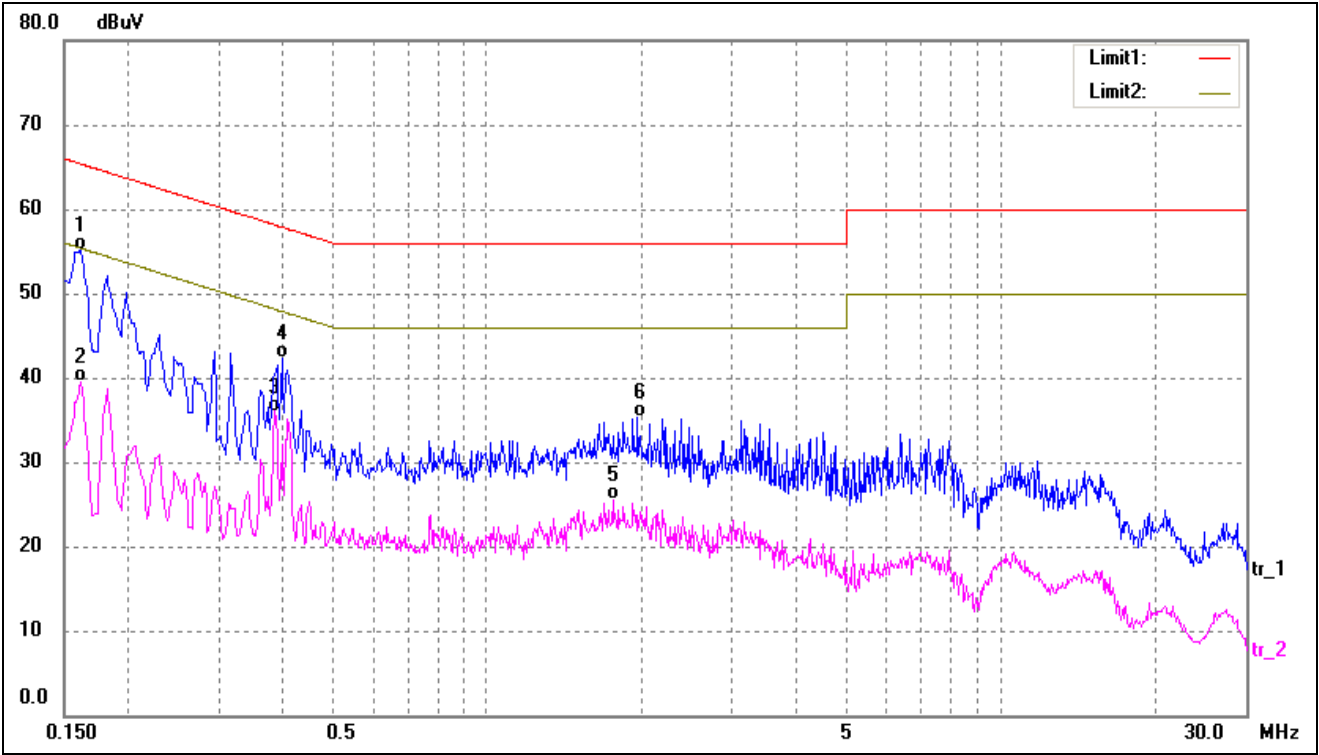
9.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150 kHz
Stop Frequency	30 MHz
Sweep Speed	Auto
IF Bandwidth.....	10 kHz
Quasi-Peak Adapter Bandwidth	9 kHz
Quasi-Peak Adapter Mode	Normal

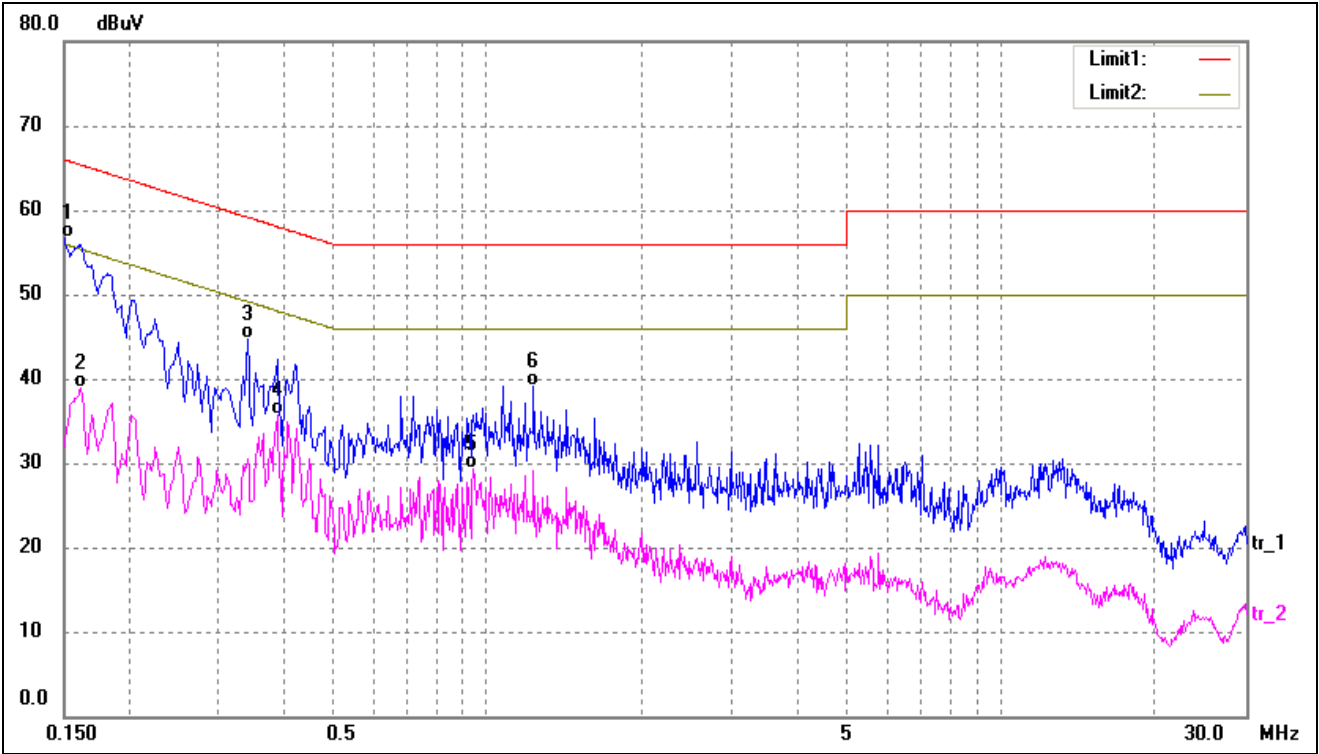
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1620	44.79	10.26	55.05	65.36	-10.31	QP
2	0.1620	29.19	10.26	39.45	55.36	-15.91	AVG
3	0.3860	25.77	10.23	36.00	48.15	-12.15	AVG
4	0.3980	32.00	10.23	42.23	57.90	-15.67	QP
5	1.7620	15.26	10.26	25.52	46.00	-20.48	AVG
6	1.9660	25.03	10.29	35.32	56.00	-20.68	QP

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1*	0.1500	46.36	10.25	56.61	66.00	-9.39	QP
2	0.1620	28.56	10.26	38.82	55.36	-16.54	AVG
3	0.3420	34.43	10.26	44.69	59.15	-14.46	QP
4	0.3900	25.45	10.24	35.69	48.06	-12.37	AVG
5	0.9420	19.00	10.22	29.22	46.00	-16.78	AVG
6	1.2300	28.86	10.22	39.08	56.00	-16.92	QP

APPENDIX SUMMARY

Project No.	WTH20X11091968W	Test Engineer	Shaw
Start date	2020/12/13	Finish date	2020/12/13
Temperature	23℃	Humidity	53%
RF specifications	WIFI-2.4G		

APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

APPENDIX A

Power Spectral Density					
Test Mode	Test Channel MHz	Test Result(dBm/3kHz)		Total dBm	Limit dBm/3kHz
		Antenna 1	Antenna 2		
802.11b_1Mbps	2412	-15.84	-14.97	/	8
	2437	-16.06	-15.76	/	8
	2462	-15.77	-15.26	/	8
802.11g_6Mbps	2412	-21.81	-21.19	/	8
	2437	-22.07	-22.00	/	8
	2462	-21.11	-21.77	/	8
802.11n-HT20_MCS0	2412	-20.68	-20.96	-17.81	8
	2437	-21.33	-21.70	-18.50	8
	2462	-20.95	-21.78	-18.33	8
802.11n-HT40_MCS0	2422	-24.64	-24.19	-21.40	8
	2437	-25.23	-24.18	-21.66	8
	2452	-24.18	-25.07	-21.59	8
802.11ax-HE20_MCS0	2412	-21.71	-21.64	-18.66	8
	2437	-21.95	-21.55	-18.74	8
	2462	-20.81	-22.22	-18.45	8
802.11ax-HE40_MCS0	2422	-25.90	-25.59	-22.73	8
	2437	-25.56	-25.27	-22.40	8
	2452	-25.07	-26.23	-22.60	8

Antenna 1

802.11b-Low	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41269 GHz -15.84 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.412690000 GHz -15.84 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11b-Middle	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43769 GHz -16.06 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.437690000 GHz -16.06 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11b-High	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.46269 GHz -15.77 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.462690000 GHz -15.77 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11g-Low	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.41263 GHz -21.81 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.412630000 GHz -21.81 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-Middle	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.43637 GHz -22.07 dBm #Avg Log 10 dB/ Offset 1 dB W1 S2 S3 FC AA Marker 2.436370000 GHz -22.07 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-High	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.46386 GHz -21.11 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.463860000 GHz -21.11 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11n-HT20-Low	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.41170 GHz -20.68 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.411700000 GHz -20.68 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
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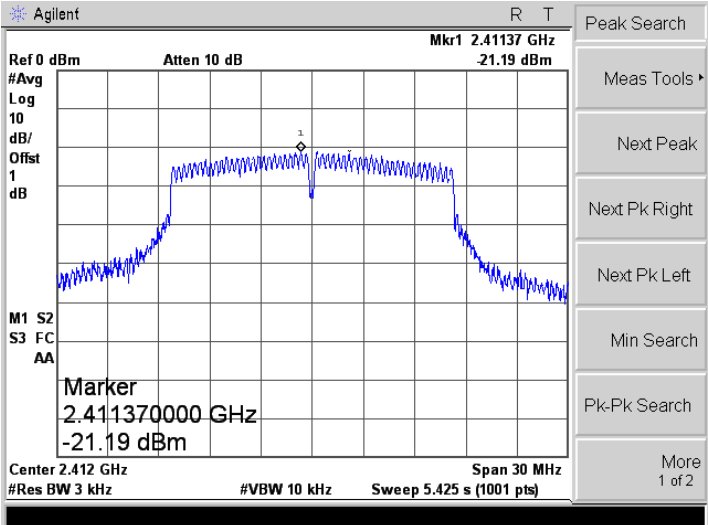
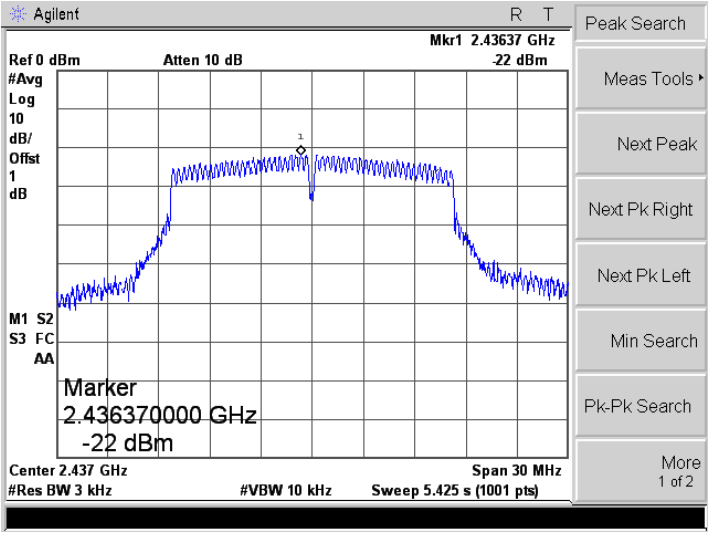
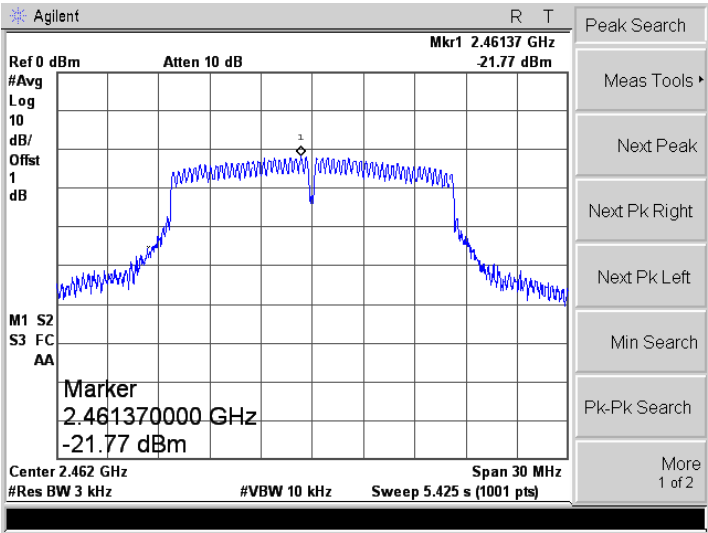
802.11n-HT40-Low	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.41696 GHz -24.64 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.416960000 GHz -24.64 dBm Center 2.422 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-Middle	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.43826 GHz -25.23 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.438260000 GHz -25.23 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-High	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.44978 GHz -24.18 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.449780000 GHz -24.18 dBm Center 2.452 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11ax-HE20-Low	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41143 GHz -21.71 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.411430000 GHz -21.71 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE20- Middle	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43715 GHz -21.95 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.437150000 GHz -21.95 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE20- High	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.46464 GHz -20.81 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.464640000 GHz -20.81 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11ax-HE40-Low	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.42698 GHz -25.9 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.426980000 GHz -25.9 dBm Center 2.422 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE40- Middle	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43448 GHz -25.56 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.434480000 GHz -25.56 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE40- High	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.45698 GHz -25.07 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.456980000 GHz -25.07 dBm Center 2.452 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

Antenna 2

802.11b-Low	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41269 GHz -14.97 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.412690000 GHz -14.97 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11b-Middle	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43805 GHz -15.76 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.438050000 GHz -15.76 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11b-High	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.46374 GHz -15.26 dBm #Avg Log 10 dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.463740000 GHz -15.26 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11g-Low	
802.11g-Middle	
802.11g-High	

802.11n-HT20-Low	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.41131 GHz -20.96 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.411310000 GHz -20.96 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT20-Middle	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.43790 GHz -21.7 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.437900000 GHz -21.7 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT20-High	Agilent Ref 0 dBm Atten 10 dB Mkr1 2.46323 GHz -21.78 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.463230000 GHz -21.78 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11n-HT40-Low	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41450 GHz -24.19 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.41450000 GHz -24.19 dBm Center 2.422 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-Middle	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43478 GHz -24.18 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.434780000 GHz -24.18 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11n-HT40-High	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.44948 GHz -25.07 dBm #Avg 10 Log dB/ Offst 1 dB M1 S2 S3 FC AA Marker 2.449480000 GHz -25.07 dBm Center 2.452 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11ax-HE20-Low	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41254 GHz -21.64 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.412540000 GHz -21.64 dBm Center 2.412 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE20- Middle	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43628 GHz -21.55 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.436280000 GHz -21.55 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE20- High	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.46347 GHz -22.22 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.463470000 GHz -22.22 dBm Center 2.462 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 5.425 s (1001 pts) Span 30 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11ax-HE40-Low	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.41948 GHz -25.59 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.419480000 GHz -25.59 dBm Center 2.422 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE40- Middle	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.43448 GHz -25.27 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.434480000 GHz -25.27 dBm Center 2.437 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE40- High	Agilent R T Ref 0 dBm Atten 10 dB Mkr1 2.44948 GHz -26.23 dBm #Avg Log 10 dB/ Offset 1 dB M1 S2 S3 FC AA Marker 2.449480000 GHz -26.23 dBm Center 2.452 GHz #Res BW 3 kHz #VBW 10 kHz Sweep 10.85 s (1001 pts) Span 60 MHz Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

APPENDIX B

DTS Bandwidth				
Test Mode	Test Channel MHz	Test Result(MHz)		Limit kHz
		Antenna 1	Antenna 2	
802.11b_1Mbps	2412	7.644	6.316	≥500
	2437	7.970	7.934	≥500
	2462	8.021	8.042	≥500
802.11g_6Mbps	2412	15.005	15.757	≥500
	2437	15.016	14.989	≥500
	2462	14.711	14.796	≥500
802.11n-HT20_MCS0	2412	15.106	15.300	≥500
	2437	15.305	15.135	≥500
	2462	15.158	16.277	≥500
802.11n-HT40_MCS0	2422	33.901	32.579	≥500
	2437	32.576	35.309	≥500
	2452	32.602	35.112	≥500
802.11ax-HE20_MCS0	2412	18.130	18.436	≥500
	2437	18.011	18.955	≥500
	2462	17.896	18.972	≥500
802.11ax-HE40_MCS0	2422	36.305	36.681	≥500
	2437	36.374	35.807	≥500
	2452	37.532	37.132	≥500

Antenna 1

802.11b-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 12.8035 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 18.268 kHz x dB Bandwidth 7.644 MHz Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.39700000 GHz Stop Freq 2.42700000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11b-Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 12.7689 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -13.159 kHz x dB Bandwidth 7.970 MHz Freq/Channel Center Freq 2.43700000 GHz Start Freq 2.42200000 GHz Stop Freq 2.45200000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11b-High	Agilent R T Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 12.8461 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -7.184 kHz x dB Bandwidth 8.021 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11g-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 16.3171 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -15.966 kHz x dB Bandwidth 15.005 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 16.3300 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -23.133 kHz x dB Bandwidth 15.016 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-High	Agilent R T Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 16.3322 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -17.243 kHz x dB Bandwidth 14.711 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

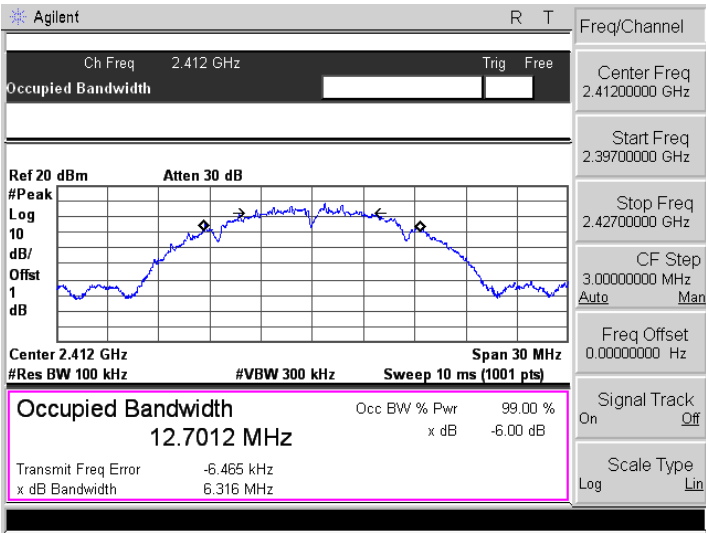
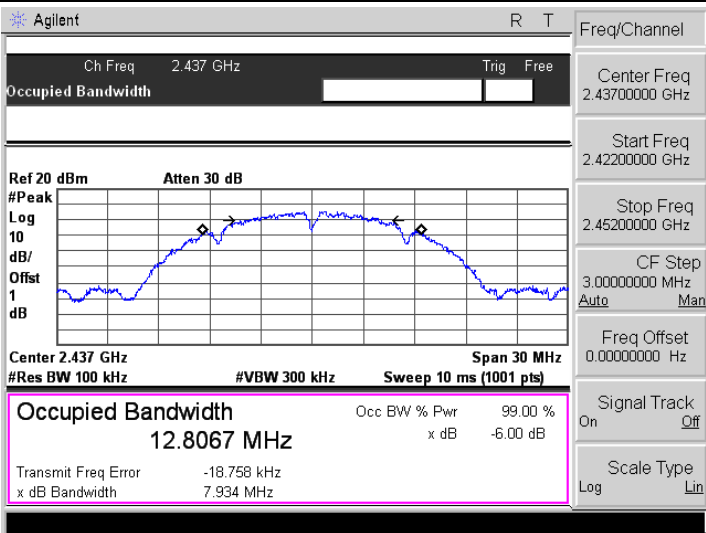
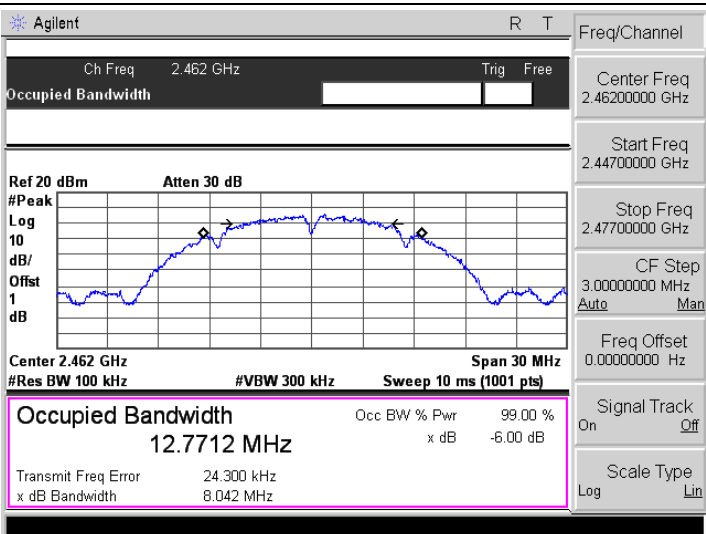
802.11n-HT20-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 17.4906 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -4.250 kHz x dB Bandwidth 15.106 MHz Freq/Channel Center Freq 2.4120000 GHz Start Freq 2.3970000 GHz Stop Freq 2.4270000 GHz CF Step 3.0000000 MHz Auto Man Freq Offset 0.0000000 Hz Signal Track On Off Scale Type Log Lin
802.11n-HT20-Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 17.4978 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -15.545 kHz x dB Bandwidth 15.305 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-High	Agilent R T Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offst 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 17.5082 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -12.546 kHz x dB Bandwidth 15.158 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11n-HT40-Low	Agilent R T Ch Freq 2.422 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 35.7300 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -16.397 kHz x dB Bandwidth 33.901 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
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802.11ax-HE20-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 18.7666 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -1.961 kHz x dB Bandwidth 18.130 MHz Freq/Channel Center Freq 2.41200000 GHz Start Freq 2.39700000 GHz Stop Freq 2.42700000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11ax-HE20- Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 18.8711 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -18.342 kHz x dB Bandwidth 18.011 MHz Freq/Channel Center Freq 2.43700000 GHz Start Freq 2.42200000 GHz Stop Freq 2.45200000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin
802.11ax-HE20- High	Agilent R T Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 18.8678 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -13.853 kHz x dB Bandwidth 17.896 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11ax-HE40-Low	Agilent Ch Freq 2.422 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 37.5073 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 13.246 kHz x dB Bandwidth 36.305 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE40- Middle	Agilent Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 37.5164 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -12.225 kHz x dB Bandwidth 36.374 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE40- High	Agilent Ch Freq 2.452 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 37.4966 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -77.209 kHz x dB Bandwidth 37.532 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

Antenna 2

802.11b-Low	
802.11b-Middle	
802.11b-High	

802.11g-Low	Agilent Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 16.3300 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -10.622 kHz x dB Bandwidth 15.757 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-Middle	Agilent Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 16.3209 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -20.448 kHz x dB Bandwidth 14.989 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-High	Agilent Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 16.3382 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -19.894 kHz x dB Bandwidth 14.796 MHz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11n-HT20-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 17.4970 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -8.891 kHz x dB Bandwidth 15.300 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 17.5045 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -8.964 kHz x dB Bandwidth 15.135 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-High	Agilent R T Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 17.5117 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -8.103 kHz x dB Bandwidth 16.277 MHz Trace/View 1 Trace 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11n-HT40-Low	Agilent R T Ch Freq 2.422 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 35.7619 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -8.201 kHz x dB Bandwidth 32.579 MHz Trace/View 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 35.7422 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -27.378 kHz x dB Bandwidth 35.039 MHz Trace/View 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-High	Agilent R T Ch Freq 2.452 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 35.7678 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -15.647 kHz x dB Bandwidth 35.112 MHz Freq/Channel Center Freq 2.45200000 GHz Start Freq 2.42200000 GHz Stop Freq 2.48200000 GHz CF Step 6.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

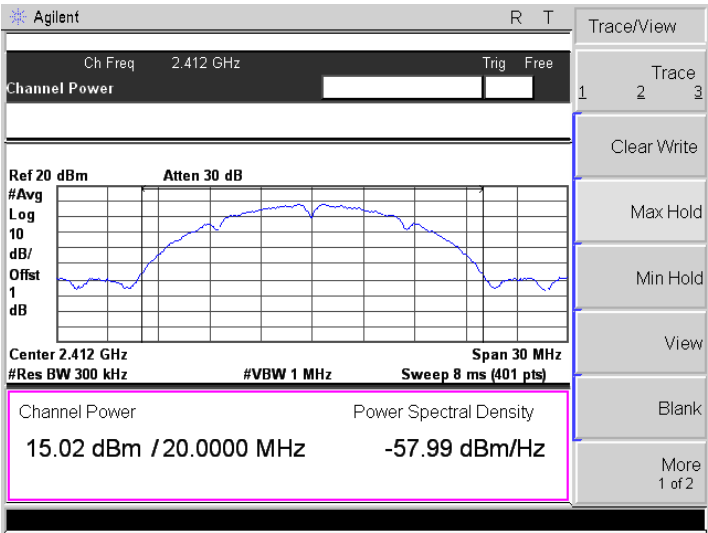
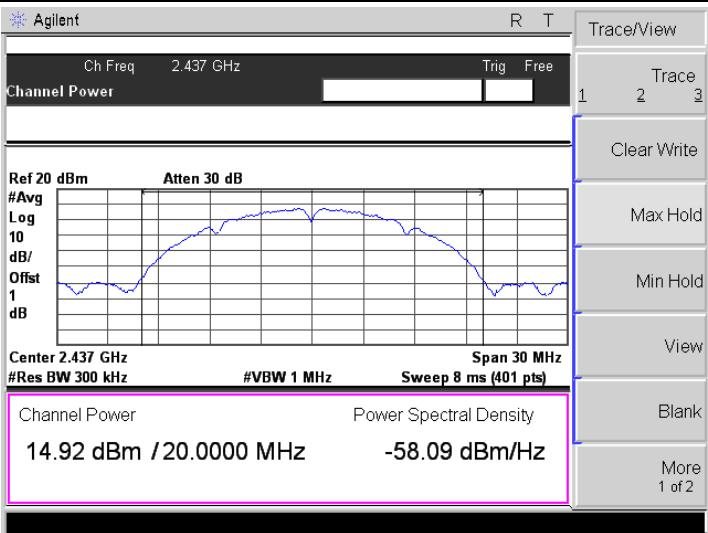
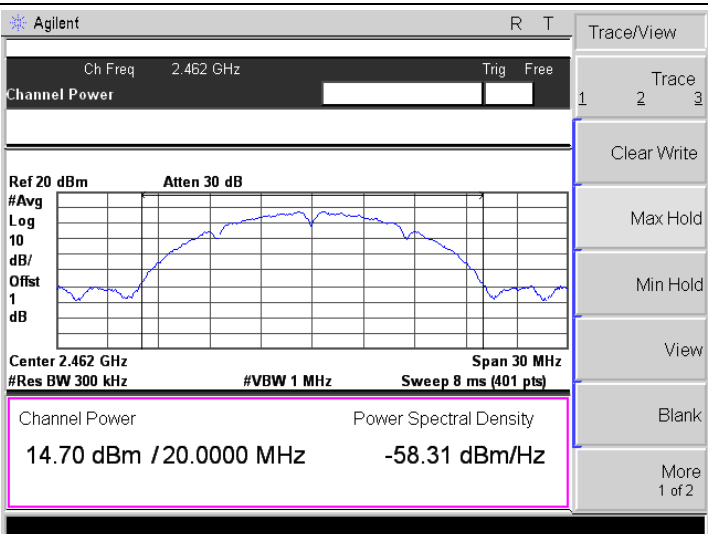
802.11ax-HE20-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 18.7893 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -5.272 kHz x dB Bandwidth 18.436 MHz Trace/View 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE20- Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 30 MHz Occupied Bandwidth 18.8703 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -23.619 kHz x dB Bandwidth 18.955 MHz Trace/View 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE20- High	Agilent R T Ch Freq 2.462 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 3 MHz Sweep 4 ms (401 pts) Span 30 MHz Occupied Bandwidth 18.9834 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -18.862 kHz x dB Bandwidth 18.972 MHz Freq/Channel Center Freq 2.46200000 GHz Start Freq 2.44700000 GHz Stop Freq 2.47700000 GHz CF Step 3.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

802.11ax-HE40-Low	Agilent Ch Freq 2.422 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 37.5000 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error 4.601 kHz x dB Bandwidth 36.681 MHz Trace/View 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE40- Middle	Agilent Ch Freq 2.437 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 37.4765 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -18.065 kHz x dB Bandwidth 35.807 MHz Trace/View 1 2 3 Trace Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE40- High	Agilent Ch Freq 2.452 GHz Trig Free Occupied Bandwidth Ref 20 dBm Atten 30 dB #Peak Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Span 60 MHz Occupied Bandwidth 37.4980 MHz Occ BW % Pwr 99.00 % x dB -6.00 dB Transmit Freq Error -20.406 kHz x dB Bandwidth 37.132 MHz Freq/Channel Center Freq 2.45200000 GHz Start Freq 2.42200000 GHz Stop Freq 2.48200000 GHz CF Step 6.00000000 MHz Auto Man Freq Offset 0.00000000 Hz Signal Track On Off Scale Type Log Lin

APPENDIX C

RF Output Power					
Test Mode	Frequency MHz	Antenna 1 dBm	Antenna 2 dBm	Total Power dBm	Limit dBm
802.11b _1Mbps	2412	15.02	14.94	/	30.00
	2437	14.92	15.01	/	30.00
	2462	14.70	14.43	/	30.00
802.11g _6Mbps	2412	12.75	12.20	/	30.00
	2437	12.45	11.49	/	30.00
	2462	12.37	11.31	/	30.00
802.11n HT20_MCS0	2412	12.45	12.13	15.30	30.00
	2437	12.41	12.12	15.28	30.00
	2462	12.60	11.85	15.25	30.00
802.11n HT40_MCS0	2422	11.79	11.38	14.60	30.00
	2437	11.47	11.37	14.43	30.00
	2452	11.12	11.15	14.15	30.00
802.11ax-HE20_MCS0	2412	12.68	12.73	15.72	30.00
	2437	11.94	12.56	15.27	30.00
	2462	12.22	12.09	15.17	30.00
802.11ax-HE40_MCS0	2422	12.39	11.28	14.88	30.00
	2437	11.54	11.69	14.63	30.00
	2452	11.53	11.44	14.50	30.00

Antenna 1

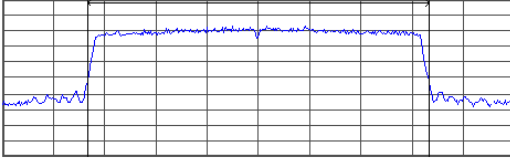
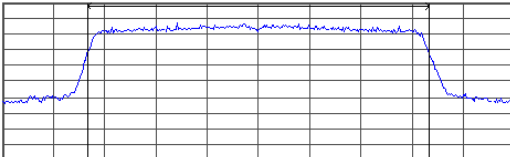
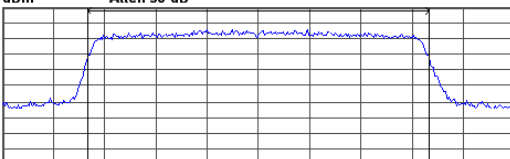
802.11b-Low	
802.11b-Middle	
802.11b-High	

802.11g-Low	Agilent Ch Freq 2.412 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.75 dBm / 20.0000 MHz -60.27 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-Middle	Agilent Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.45 dBm / 20.0000 MHz -60.56 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-High	Agilent Ch Freq 2.462 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.37 dBm / 20.0000 MHz -60.64 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

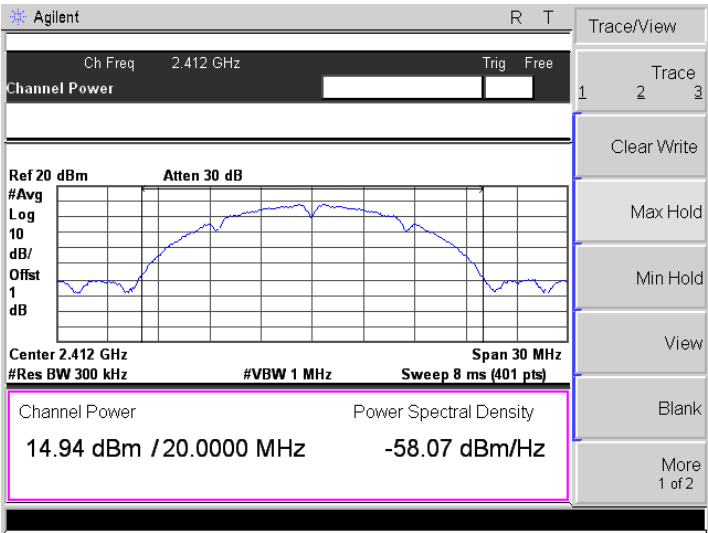
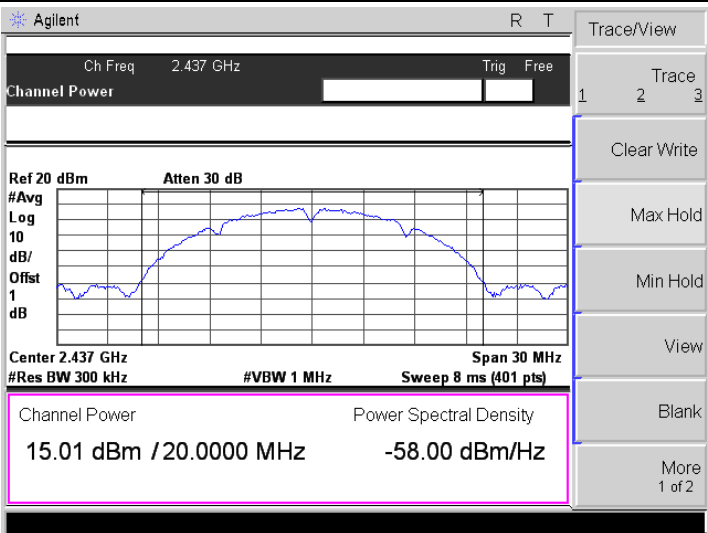
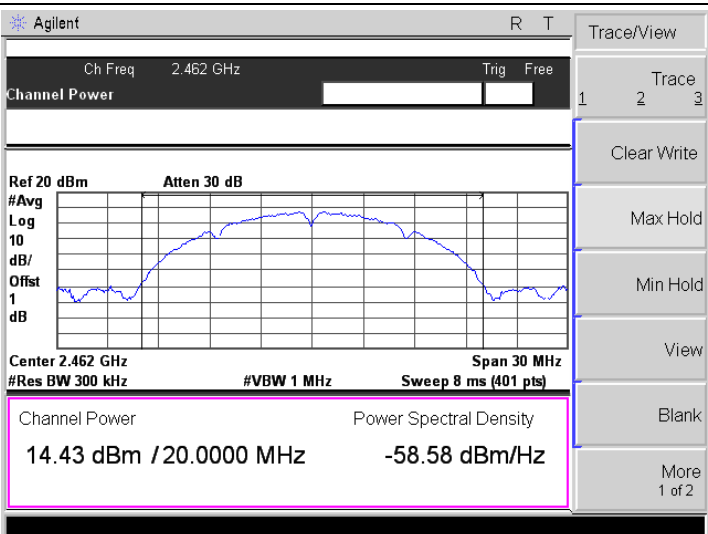
802.11n-HT20-Low	Agilent Ch Freq 2.412 GHz Channel Power Trig Free Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.45 dBm / 20.0000 MHz -60.56 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-Middle	Agilent Ch Freq 2.437 GHz Channel Power Trig Free Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.41 dBm / 20.0000 MHz -60.61 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-High	Agilent Ch Freq 2.462 GHz Channel Power Trig Free Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.60 dBm / 20.0000 MHz -60.41 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11n-HT40-Low	Agilent Ch Freq 2.422 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power Power Spectral Density 11.79 dBm / 40.0000 MHz -64.23 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-Middle	Agilent Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power Power Spectral Density 11.47 dBm / 40.0000 MHz -64.55 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-High	Agilent Ch Freq 2.452 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power Power Spectral Density 11.12 dBm / 40.0000 MHz -64.90 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11ax-HE20-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.68 dBm / 20.0000 MHz -60.33 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE20- Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 11.94 dBm / 20.0000 MHz -61.07 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE20- High	Agilent R T Ch Freq 2.462 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.22 dBm / 20.0000 MHz -60.79 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

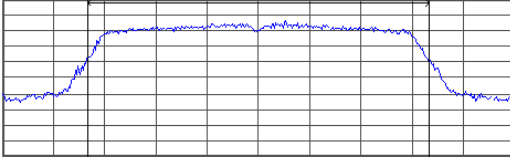
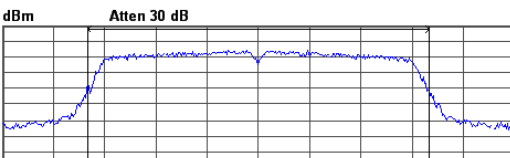
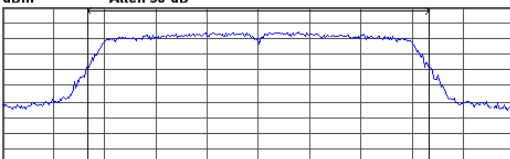
802.11ax-HE40-Low	Agilent Ch Freq 2.422 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/Offset 1 dB  Center 2.422 GHz #Res BW 300 kHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power 12.39 dBm / 40.0000 MHz Power Spectral Density -63.63 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE40- Middle	Agilent Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/Offset 1 dB  Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power 11.54 dBm / 40.0000 MHz Power Spectral Density -64.48 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE40- High	Agilent Ch Freq 2.452 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/Offset 1 dB  Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power 11.53 dBm / 40.0000 MHz Power Spectral Density -64.49 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

Antenna 2

802.11b-Low	
802.11b-Middle	
802.11b-High	

802.11g-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.20 dBm / 20.0000 MHz -60.81 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 11.49 dBm / 20.0000 MHz -61.52 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11g-High	Agilent R T Ch Freq 2.462 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 11.31 dBm / 20.0000 MHz -61.70 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11n-HT20-Low	Agilent Ch Freq 2.412 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.13 dBm / 20.0000 MHz -60.88 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-Middle	Agilent Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.12 dBm / 20.0000 MHz -61.20 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT20-High	Agilent Ch Freq 2.462 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 11.85 dBm / 20.0000 MHz -61.17 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11n-HT40-Low	Agilent Ch Freq 2.422 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/Offset 1 dB  Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz Sweep 8 ms (401 pts) Channel Power Power Spectral Density 11.38 dBm / 40.0000 MHz -64.64 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-Middle	Agilent Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/Offset 1 dB  Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz Sweep 8 ms (401 pts) Channel Power Power Spectral Density 11.37 dBm / 40.0000 MHz -64.73 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11n-HT40-High	Agilent Ch Freq 2.452 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/Offset 1 dB  Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Span 60 MHz Sweep 8 ms (401 pts) Channel Power Power Spectral Density 11.15 dBm / 40.0000 MHz -64.96 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

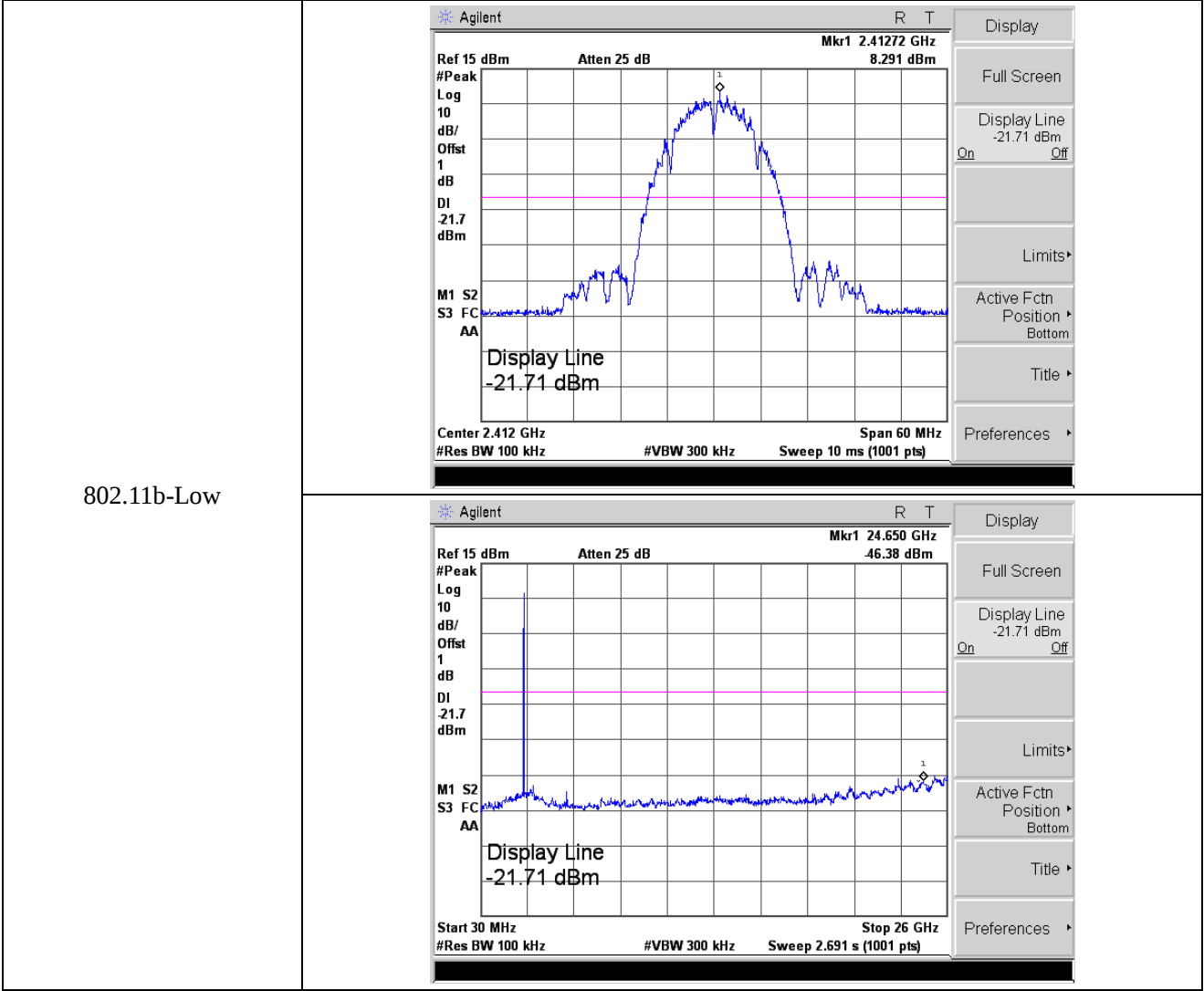
802.11ax-HE20-Low	Agilent R T Ch Freq 2.412 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.412 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.73 dBm / 20.0000 MHz -60.54 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE20- Middle	Agilent R T Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.56 dBm / 20.0000 MHz -60.45 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE20- High	Agilent R T Ch Freq 2.462 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.462 GHz #Res BW 300 kHz #VBW 1 MHz Sweep 8 ms (401 pts) Span 30 MHz Channel Power Power Spectral Density 12.09 dBm / 20.0000 MHz -60.92 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

802.11ax-HE40-Low	Agilent Ch Freq 2.422 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.422 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power Power Spectral Density 11.28 dBm / 40.0000 MHz -64.74 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE40- Middle	Agilent Ch Freq 2.437 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.437 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power Power Spectral Density 11.69 dBm / 40.0000 MHz -64.33 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2
802.11ax-HE40- High	Agilent Ch Freq 2.452 GHz Trig Free Channel Power Ref 20 dBm Atten 30 dB #Avg Log 10 dB/ Offset 1 dB Center 2.452 GHz #Res BW 1 MHz #VBW 3 MHz Sweep 8 ms (401 pts) Span 60 MHz Channel Power Power Spectral Density 11.44 dBm / 40.0000 MHz -64.58 dBm/Hz Trace/View Trace 1 2 3 Clear Write Max Hold Min Hold View Blank More 1 of 2

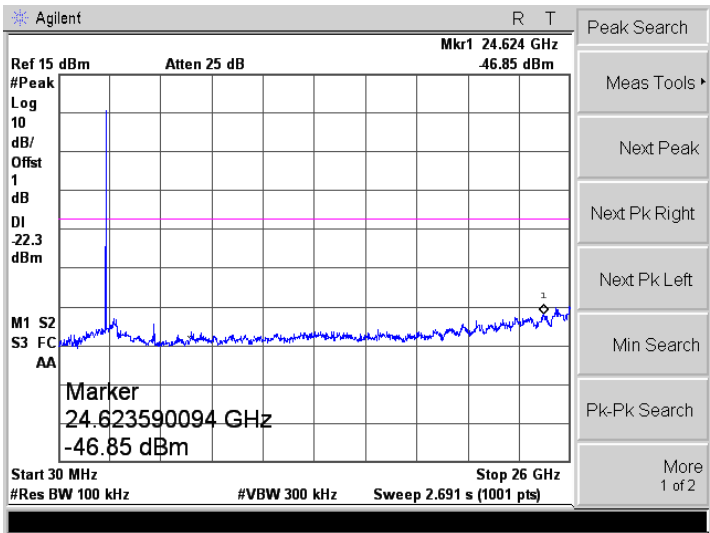
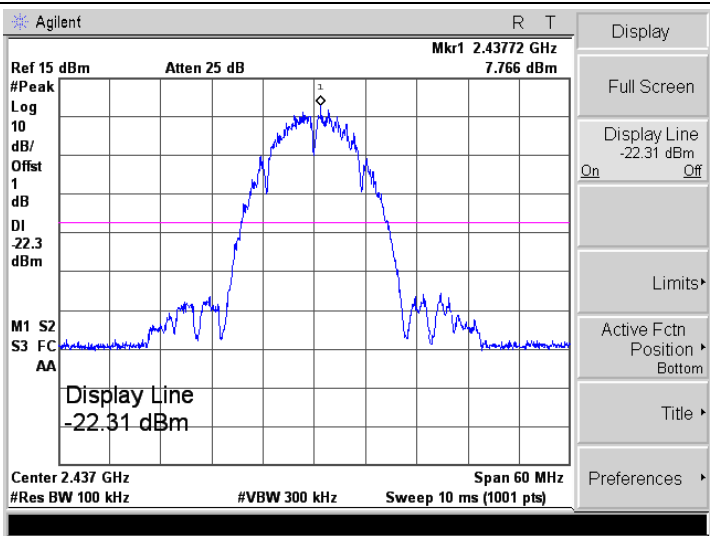
APPENDIX D

Conducted Out of Band Emissions

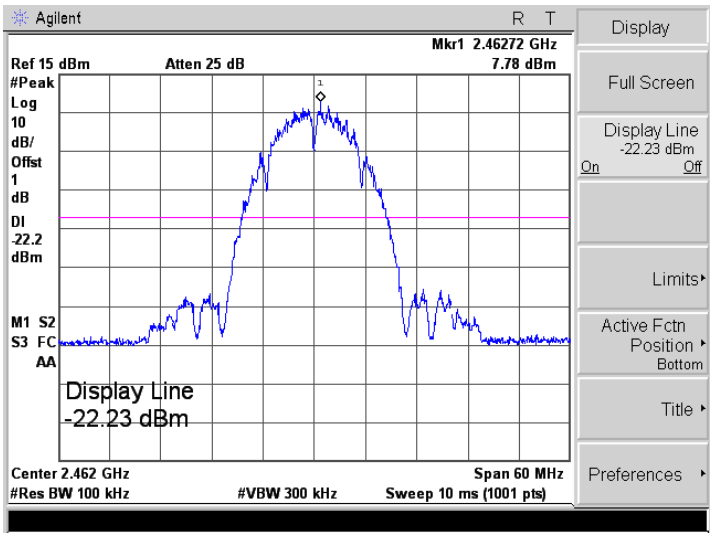
Antenna 1



802.11b-Middle

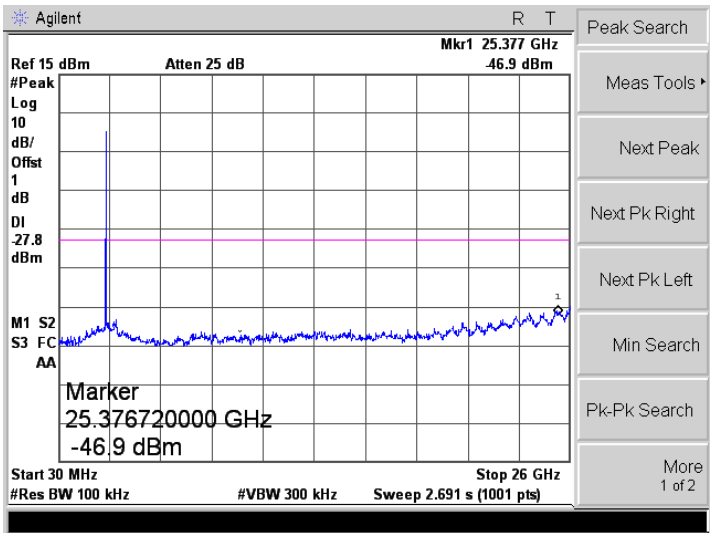
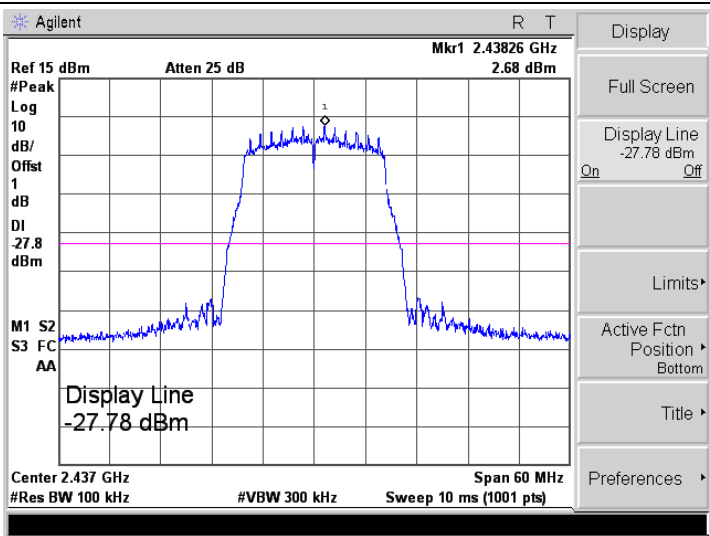


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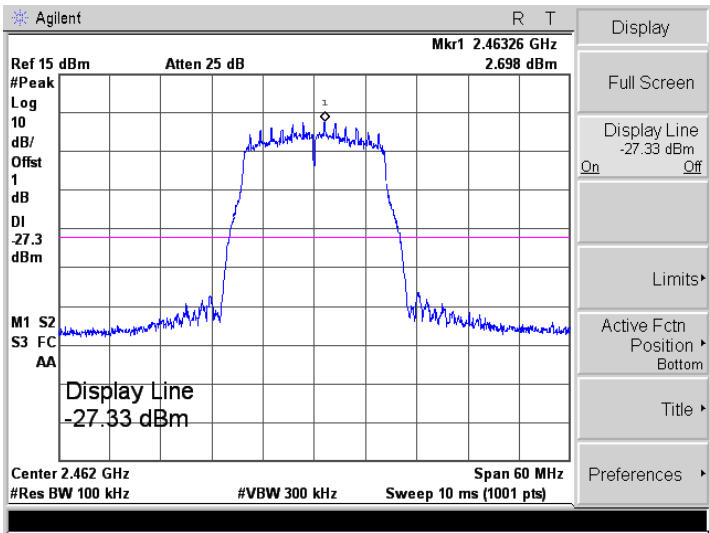


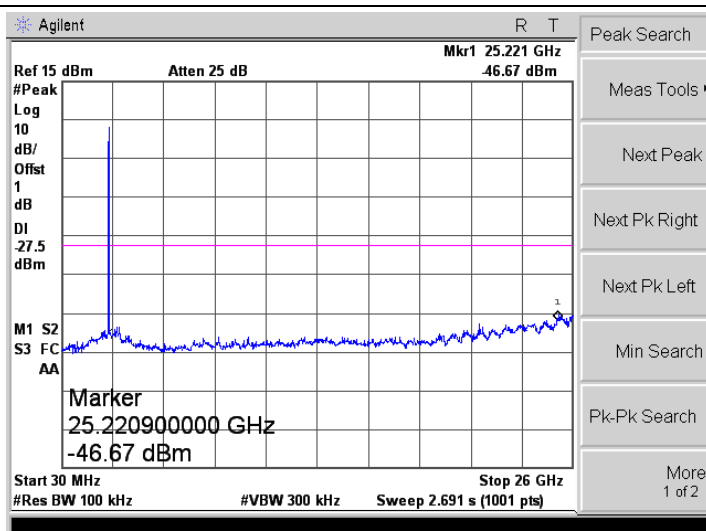
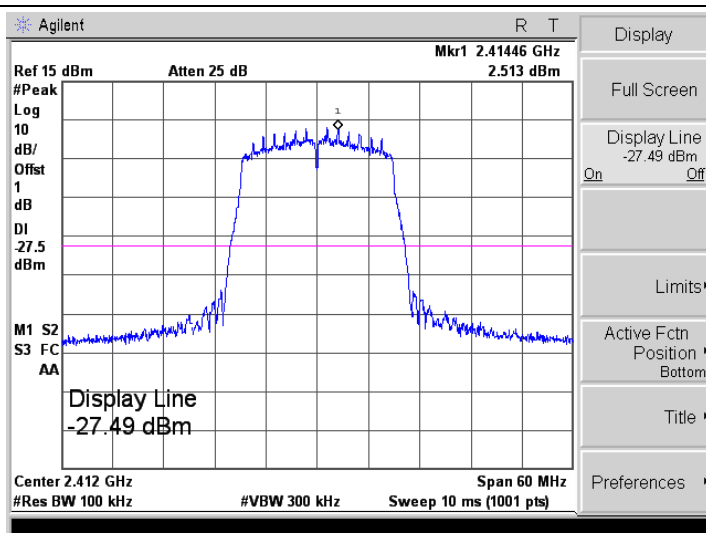
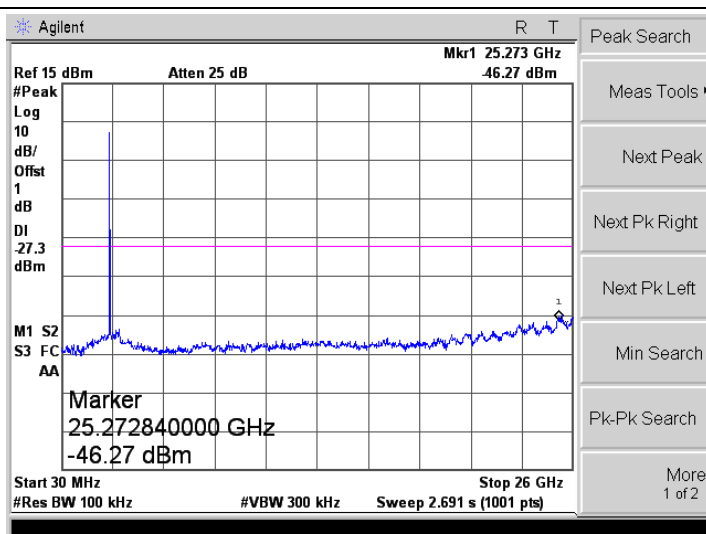
	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.221 GHz 45.66 dBm #Peak Log 10 dB/ Offset 1 dB DI -22.2 dBm M1 S2 S3 FC AA Marker 25.220900000 GHz -45.66 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 <tr><td rowspan="2">802.11g-Low</td><td> Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.41326 GHz 3.075 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Display Line -26.93 dBm Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -26.93 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td> Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.299 GHz 45.18 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Marker 25.298810000 GHz -45.18 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr></td></tr>	802.11g-Low	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.41326 GHz 3.075 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Display Line -26.93 dBm Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -26.93 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td> Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.299 GHz 45.18 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Marker 25.298810000 GHz -45.18 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr>	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.299 GHz 45.18 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Marker 25.298810000 GHz -45.18 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11g-Low	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.41326 GHz 3.075 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Display Line -26.93 dBm Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -26.93 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td> Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.299 GHz 45.18 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Marker 25.298810000 GHz -45.18 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr>		Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.299 GHz 45.18 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Marker 25.298810000 GHz -45.18 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2	
	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.299 GHz 45.18 dBm #Peak Log 10 dB/ Offset 1 dB DI -26.9 dBm M1 S2 S3 FC AA Marker 25.298810000 GHz -45.18 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2			

802.11g-Middle



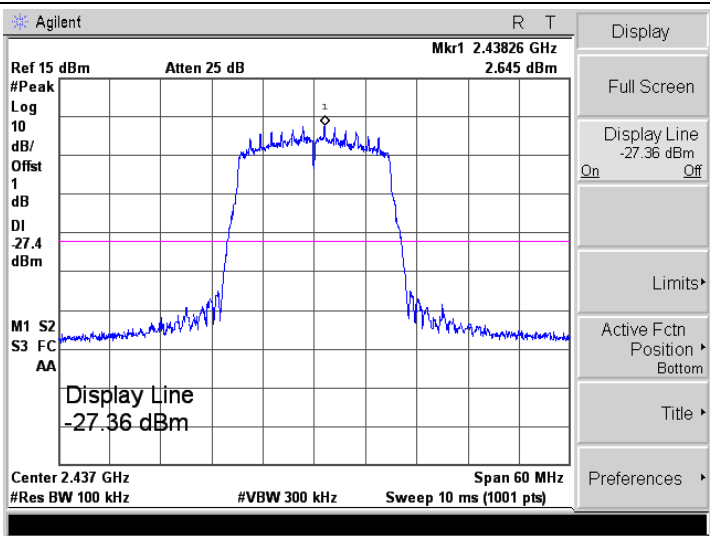
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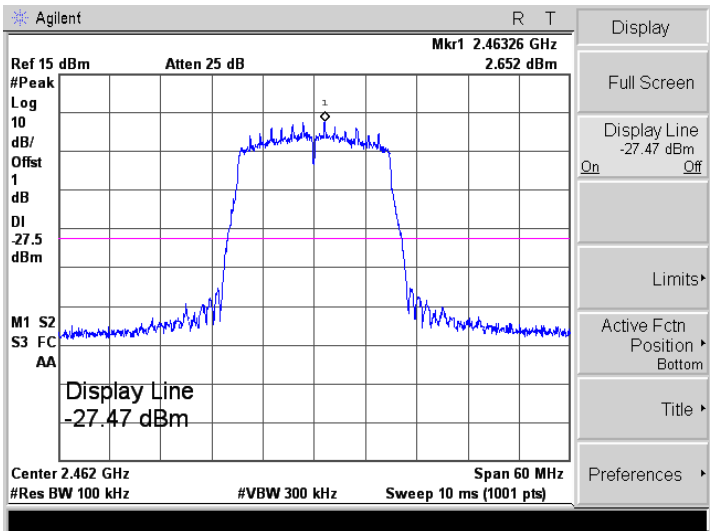
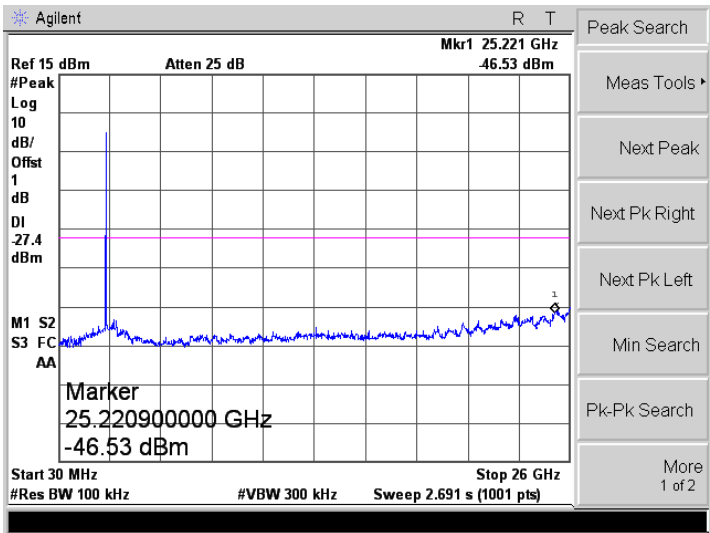


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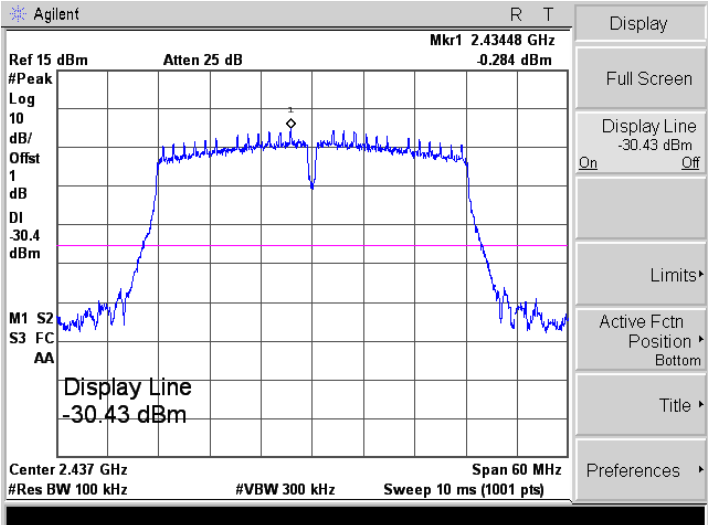
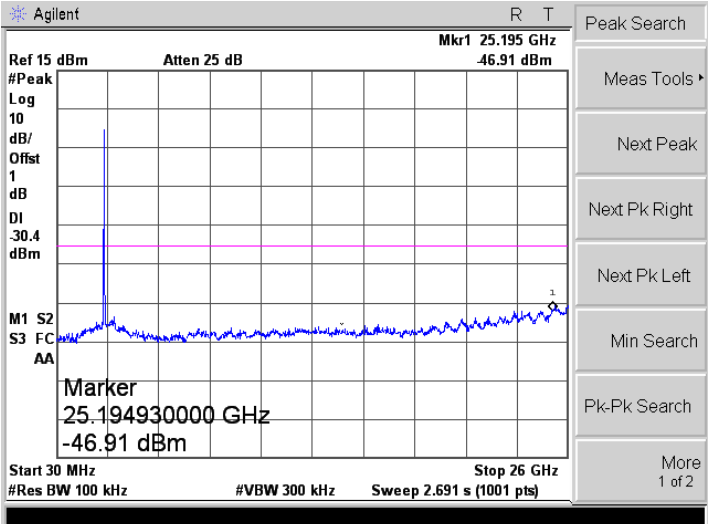
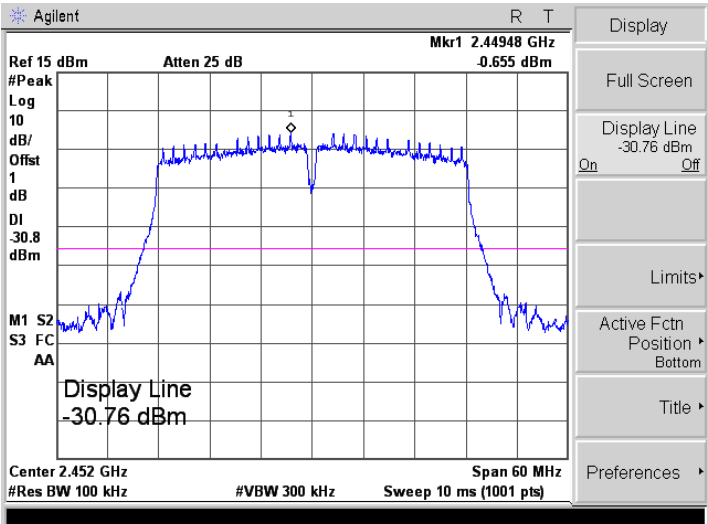
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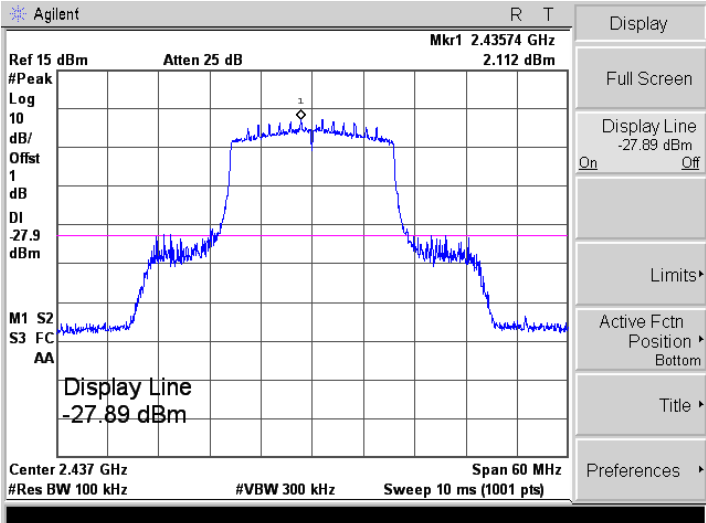
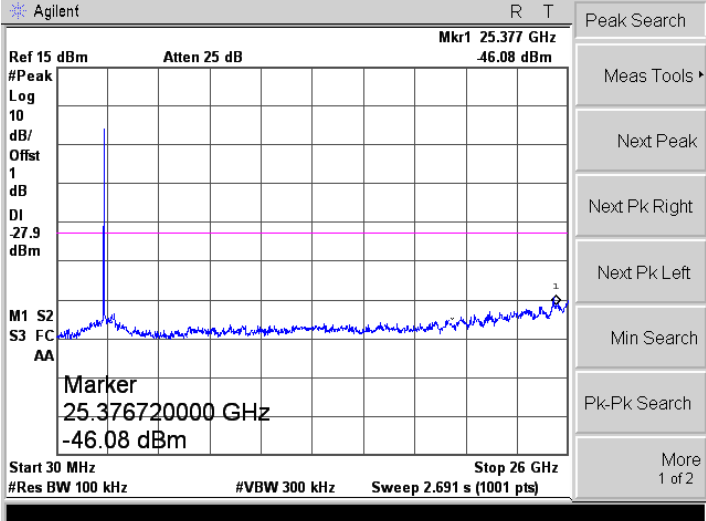
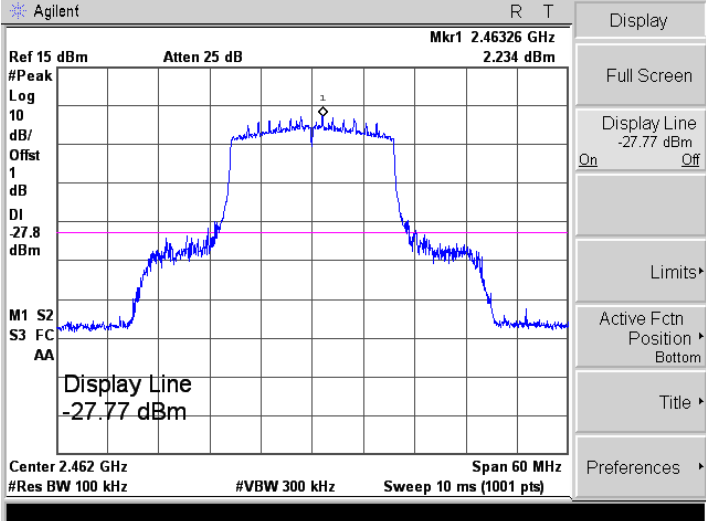
802.11n-HT20-High



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802.11n-HT40-Low	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.42446 GHz 0.025 dBm #Peak Log 10 dB/ Offset 1 dB DI -30.0 dBm M1 S2 S3 FC AA Display Line -29.98 dBm Center 2.422 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -29.98 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td> Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.325 GHz 46.42 dBm #Peak Log 10 dB/ Offset 1 dB DI -30.0 dBm M1 S2 S3 FC AA Marker 25.324780097 GHz -46.42 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr>		Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.325 GHz 46.42 dBm #Peak Log 10 dB/ Offset 1 dB DI -30.0 dBm M1 S2 S3 FC AA Marker 25.324780097 GHz -46.42 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2	
	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.325 GHz 46.42 dBm #Peak Log 10 dB/ Offset 1 dB DI -30.0 dBm M1 S2 S3 FC AA Marker 25.324780097 GHz -46.42 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2			

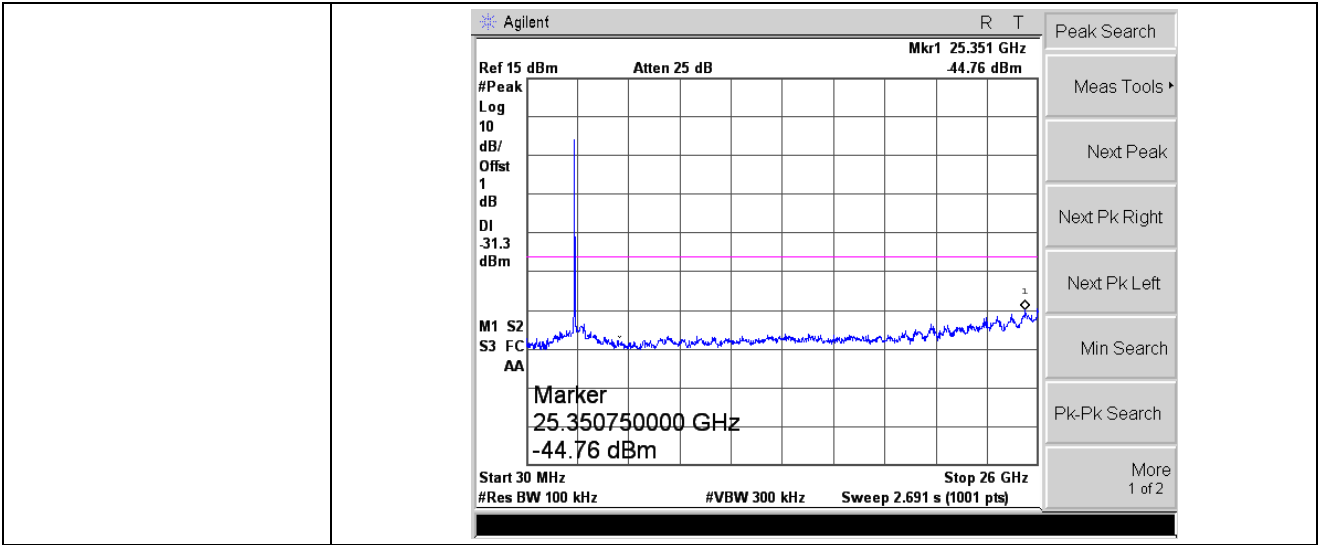
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802.11n-HT40-High	

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802.11ax-HE20-Low	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.41326 GHz 2.809 dBm #Peak Log 10 dB/ Offset 1 dB DI 27.2 dBm M1 S2 S3 FC AA Display Line -27.19 dBm Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -27.19 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶
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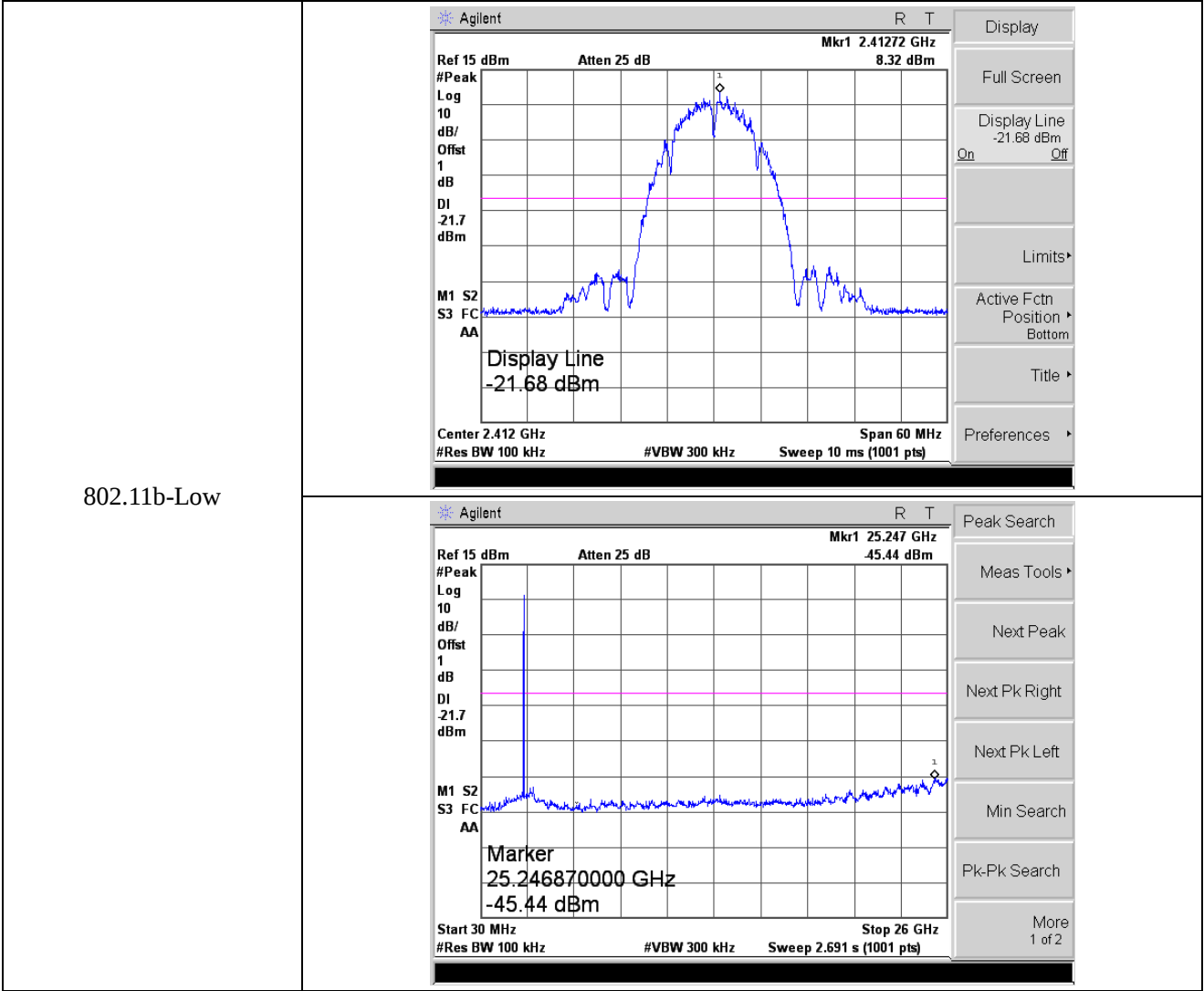
802.11ax-HE20-Middle	
	
802.11ax-HE20-High	

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802.11ax-HE40-Low	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.41948 GHz -0.253 dBm #Peak Log 10 dB/ Offset 1 dB DI -30.3 dBm M1 S2 S3 FC AA Display Line -30.25 dBm Center 2.422 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -30.25 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td></td><td> Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.325 GHz 45.96 dBm #Peak Log 10 dB/ Offset 1 dB DI -30.3 dBm M1 S2 S3 FC AA Marker 25.324780000 GHz -45.96 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr>		Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.325 GHz 45.96 dBm #Peak Log 10 dB/ Offset 1 dB DI -30.3 dBm M1 S2 S3 FC AA Marker 25.324780000 GHz -45.96 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2		
	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.325 GHz 45.96 dBm #Peak Log 10 dB/ Offset 1 dB DI -30.3 dBm M1 S2 S3 FC AA Marker 25.324780000 GHz -45.96 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2				

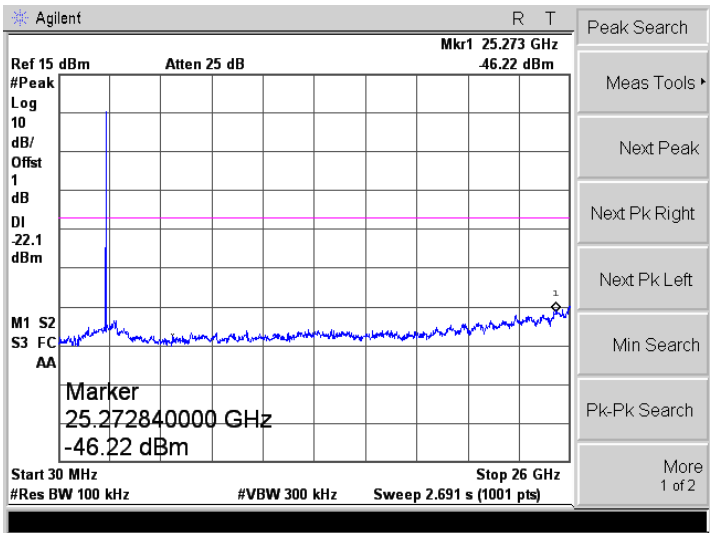
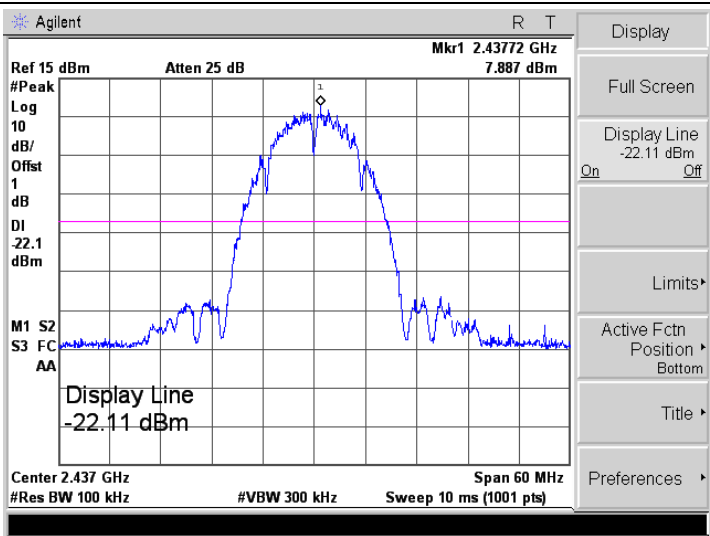
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	Agilent Ref 15 dBm Atten 25 dB Mkr1 25.299 GHz 46.21 dBm #Peak Log 10 dB/ Offset 1 dB DI -31.1 dBm M1 S2 S3 FC AA Marker 25.298810000 GHz -46.21 dBm Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Stop 26 GHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE40-High	Agilent Ref 15 dBm Atten 25 dB Mkr1 2.45698 GHz -1.318 dBm #Peak Log 10 dB/ Offset 1 dB DI -31.3 dBm M1 S2 S3 FC AA Display Line -31.32 dBm Center 2.452 GHz #Res BW 100 kHz #VBW 300 kHz Span 60 MHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -31.32 dBm On Off Limits Active Fctn Position Bottom Title Preferences



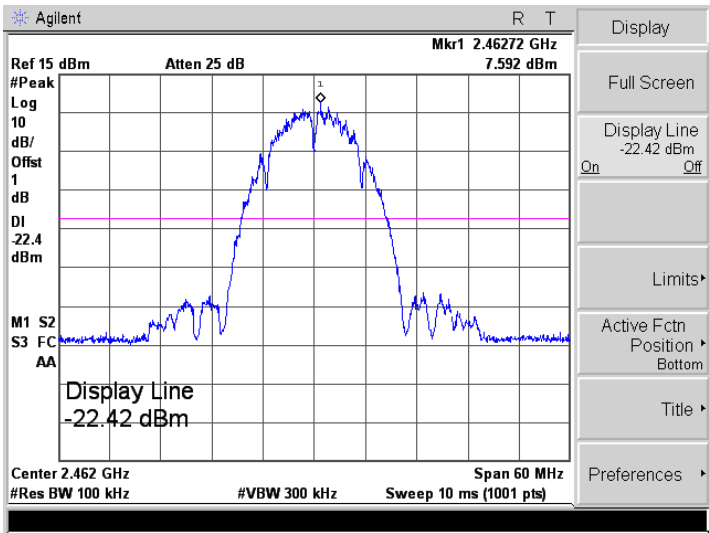
Antenna 2



802.11b-Middle

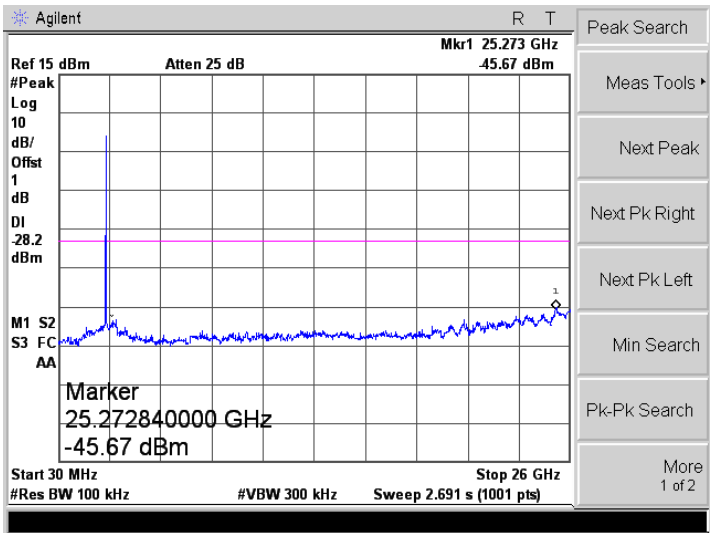
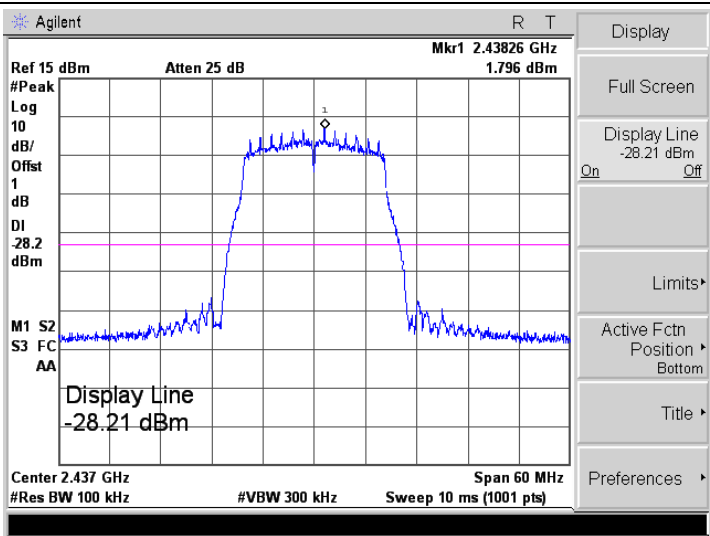


802.11b-High

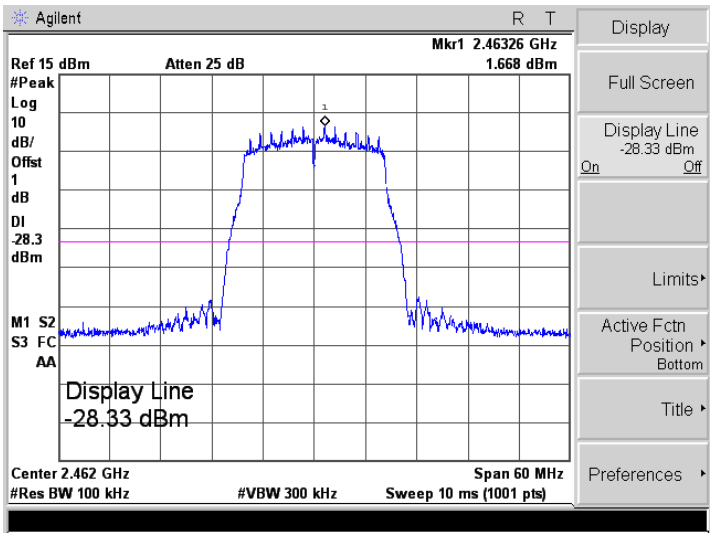


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802.11g-Low	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.41326 GHz 1.903 dBm #Peak Log 10 dB/ Offset 1 dB DI -28.1 dBm M1 S2 S3 FC AA Display Line -28.10 dBm Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -28.10 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶
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802.11g-Middle

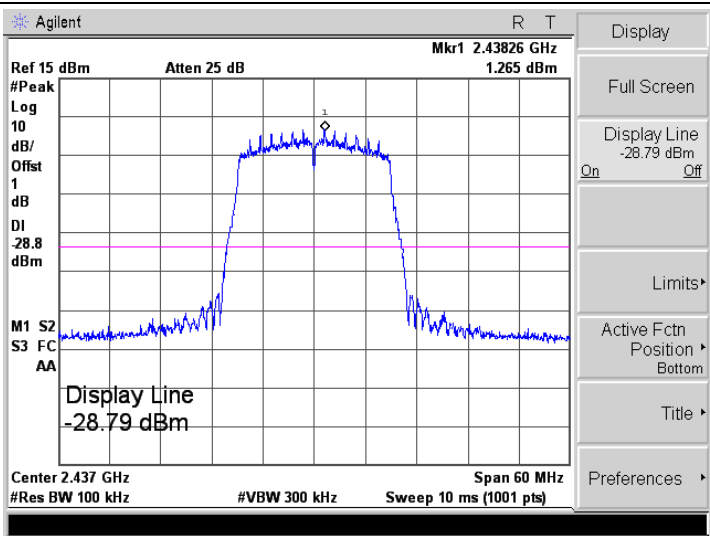


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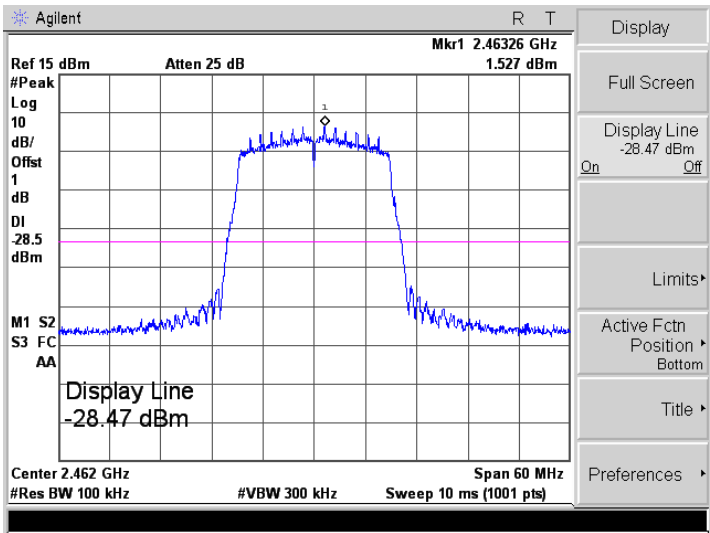
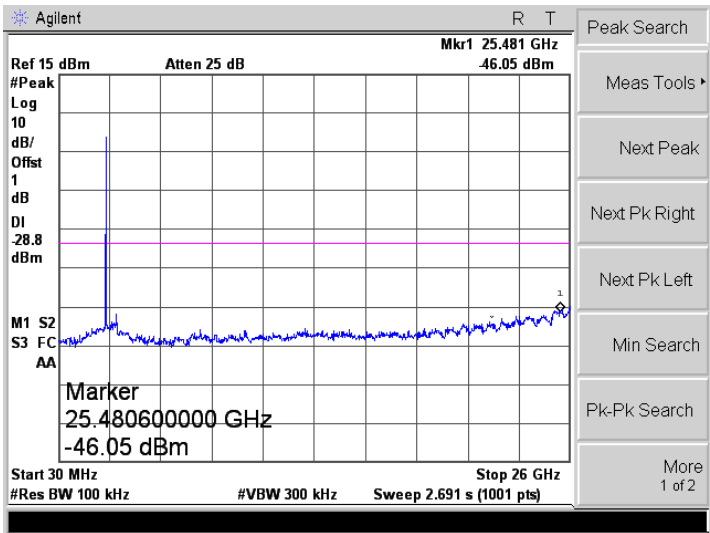


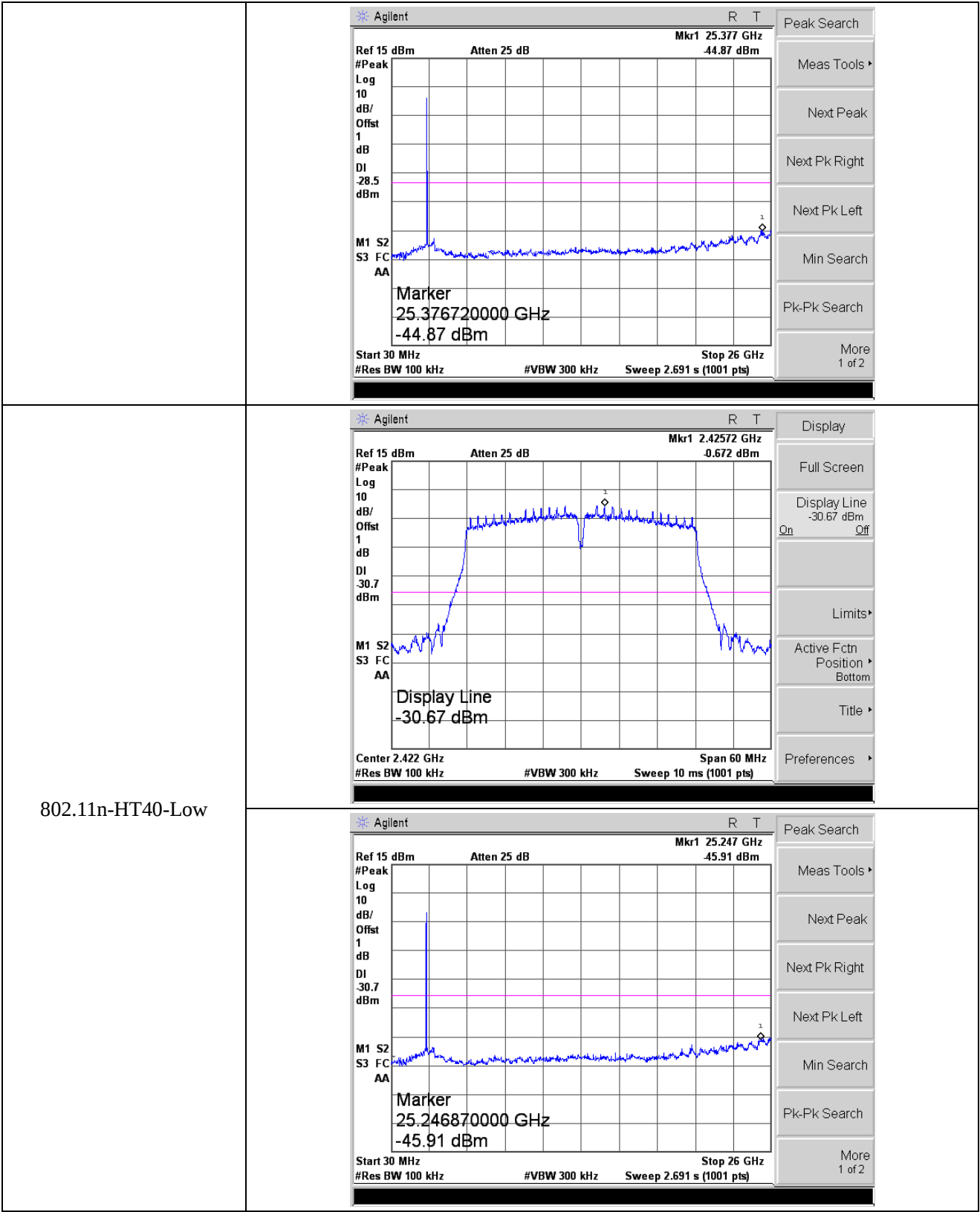
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802.11n-HT20-Low	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.41326 GHz 2.156 dBm #Peak Log 10 dB/ Offset 1 dB DI 27.8 dBm M1 S2 S3 FC AA Display Line -27.84 dBm Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -27.84 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶ <tr><td> Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.403 GHz 46.75 dBm #Peak Log 10 dB/ Offset 1 dB DI 27.8 dBm M1 S2 S3 FC AA Marker 25.402690000 GHz -46.75 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2 </td></tr>		Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.403 GHz 46.75 dBm #Peak Log 10 dB/ Offset 1 dB DI 27.8 dBm M1 S2 S3 FC AA Marker 25.402690000 GHz -46.75 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2	
	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.403 GHz 46.75 dBm #Peak Log 10 dB/ Offset 1 dB DI 27.8 dBm M1 S2 S3 FC AA Marker 25.402690000 GHz -46.75 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2			

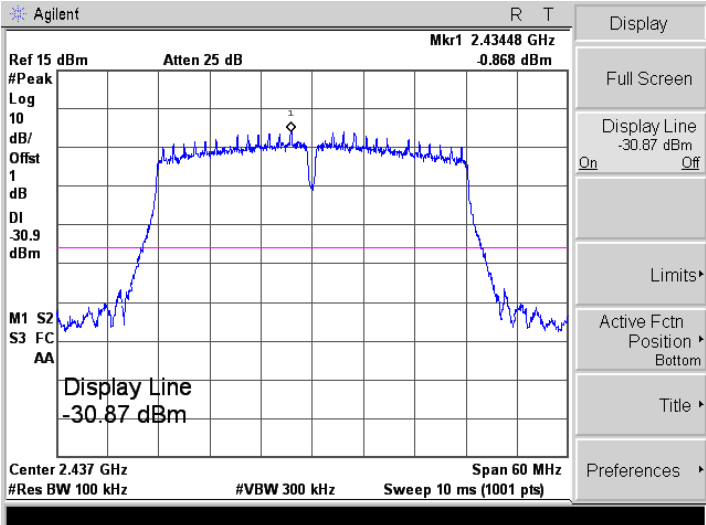
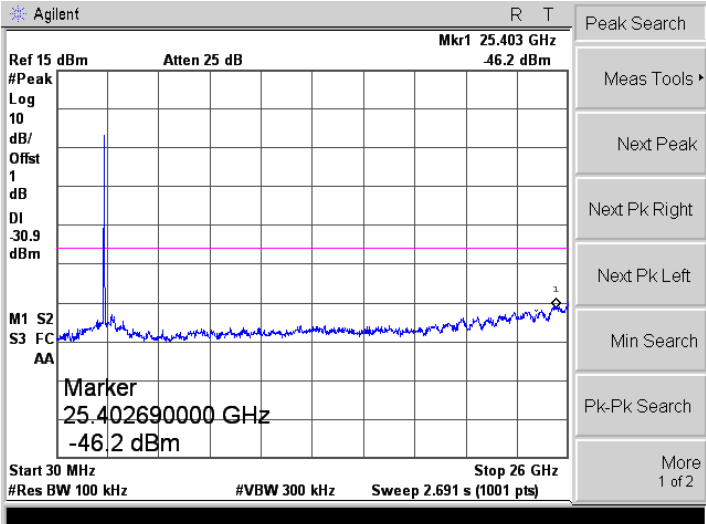
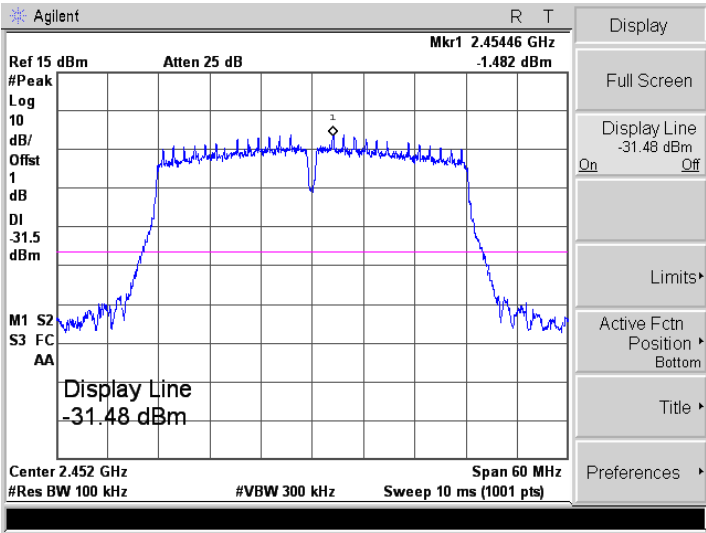
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802.11n-HT20-High

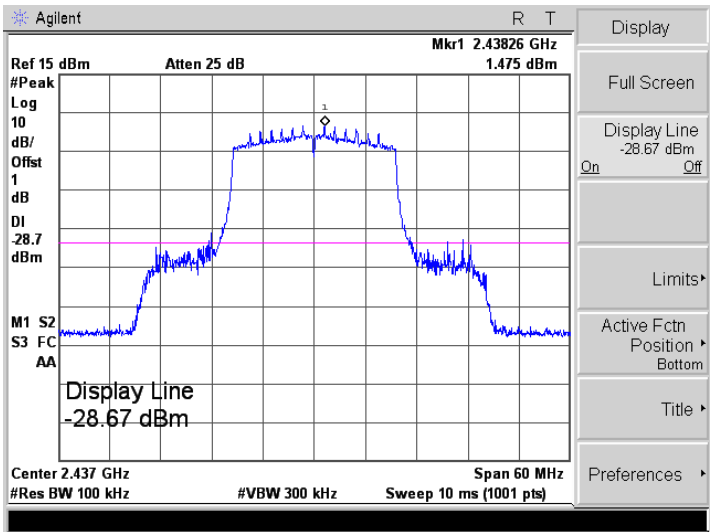




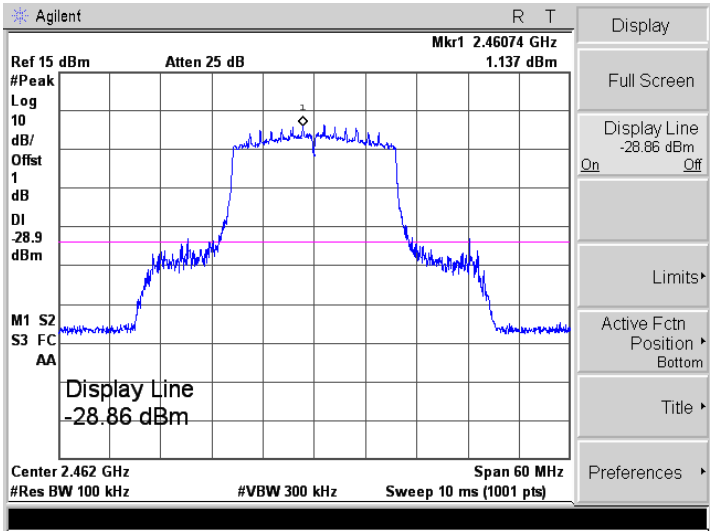
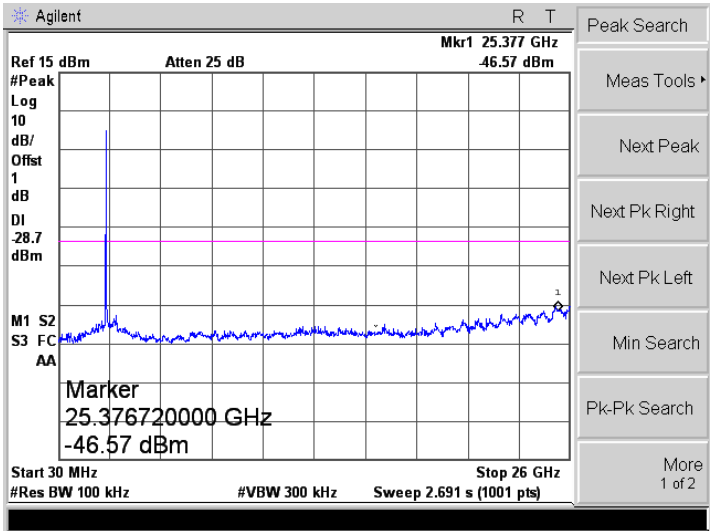
802.11n-HT40-Middle	
	
802.11n-HT40-High	

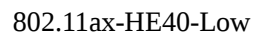
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802.11ax-HE20-Low	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.41074 GHz 1.605 dBm #Peak Log 10 dB/ Offset 1 dB DI -28.4 dBm M1 S2 S3 FC AA Display Line -28.40 dBm Center 2.412 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -28.40 dBm On Off Limits▶ Active Fctn Position ▶ Bottom Title ▶ Preferences ▶
	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.221 GHz 46.14 dBm #Peak Log 10 dB/ Offset 1 dB DI -28.4 dBm M1 S2 S3 FC AA Marker 25.220900000 GHz -46.14 dBm Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools ▶ Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2

802.11ax-HE20-Middle

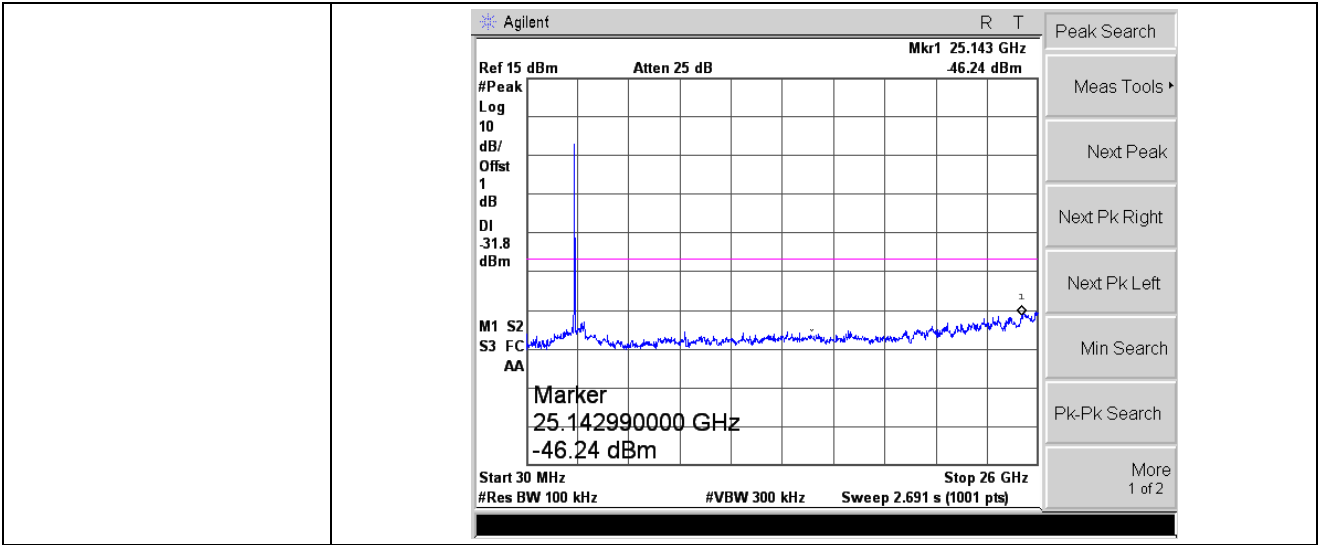


802.11ax-HE20-High





802.11ax-HE40-Middle	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.44072 GHz -1.281 dBm #Peak Log 10 dB/ Offset 1 dB DI -31.4 dBm M1 S2 S3 FC AA Center 2.437 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -31.40 dBm On Off Limits Active Fctn Position Bottom Title Preferences
	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 25.481 GHz -46.4 dBm #Peak Log 10 dB/ Offset 1 dB DI -31.4 dBm M1 S2 S3 FC AA Start 30 MHz Stop 26 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.691 s (1001 pts) Peak Search Meas Tools Next Peak Next Pk Right Next Pk Left Min Search Pk-Pk Search More 1 of 2
802.11ax-HE40-High	Agilent R T Ref 15 dBm Atten 25 dB Mkr1 2.45572 GHz -1.739 dBm #Peak Log 10 dB/ Offset 1 dB DI -31.8 dBm M1 S2 S3 FC AA Center 2.452 GHz Span 60 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 10 ms (1001 pts) Display Full Screen Display Line -31.76 dBm On Off Limits Active Fctn Position Bottom Title Preferences



APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******