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1 Cover Page

RF TEST REPORT

Application No.:	SHEM1406001466RF
Applicant:	Audio Partnership PLC
FCC ID:	YKBMA101-013
IC:	9095A-MA101013
Equipment Under Test (EUT): **NOTE:** The following sample(s) submitted was/were identified on behalf of the client as	
Product Name:	Wireless Music System
Model No.(EUT):	Air 100 V2
Standards:	FCC PART 15 Subpart C: 2013 RSS-210 Issue 8 (December 2010) RSS-Gen Issue 3 (December 2010)
Date of Receipt:	June 14, 2014
Date of Test:	June 19, 2014 to June 25, 2014
Date of Issue:	July 11, 2014
Test Result:	**Pass***

*In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Tony Wu
E&E Section Manager
SGS-CSTC (Shanghai) Co., Ltd.

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	**Chapter**	**Date**	**Modifier**	**Remark**
00		July 11, 2014		Original

Authorized for issue by:				
Engineer		Eddy Zong **Print Name**		Eddy Zong
Clerk		Susie Liu **Print Name**		Susie Liu
Reviewer		Keny Xu **Print Name**		Keny.xu

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3 Test Summary

Test Item	FCC Requirement	IC Requirement	Test method	Result
Antenna Requirement	FCC Part 15, Subpart C Section 15.203/15.247 (c)	RSS-Gen 7.1.2	---	PASS
AC Power Line Conducted Emission	FCC Part 15, Subpart C Section 15.207	RSS-Gen Issue 8 Clause 7.2.4	ANSI C63.10 (2009) Section 6.2	PASS
Minimum 6dB Bandwidth	FCC Part 15, Subpart C Section 15.247 (a)(2)	RSS-210 Issue 8 Annex 8	ANSI C63.10 (2009) Section 6.9.1	PASS
Conducted Peak Output Power	FCC Part 15, Subpart C Section 15.247 (b)(3)	RSS-210 Issue 8 Annex 8	ANSI C63.10 (2009) Section 6.10.2	PASS
Power Spectrum Density	FCC Part 15, Subpart C Section 15.247 (e)	RSS-210 Issue 8 Annex 8	ANSI C63.10 (2009) Section 6.11.2	PASS
RF Conducted Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.247(d)	RSS 210 A 8.5	ANSI C63.10 (2009) Section 7.7.9&7.7.10	PASS
Radiated Spurious Emissions and Band-edge	FCC Part 15, Subpart C Section 15.209&15.205	RSS-Gen section 4.9	ANSI C63.10 (2009) Section 6.5&6.6&6.7	PASS
99% Occupied bandwidth	---	RSS-Gen Issue 3 Clause 4.6.1	RSS-Gen Issue 3 Clause 4.6.1	PASS

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5 General Information

5.1 Client Information

Applicant:	Audio Partnership PLC
Address of Applicant:	Gallery Court, Hankey Place, London, SE1 4BB, UNITED KINGDOM
Manufacturer:	Audio Partnership PLC
Address of Manufacturer:	Gallery Court, Hankey Place, London, SE1 4BB, UNITED KINGDOM
Factory:	Hansong (Nanjing) Technology Ltd.
Address of Factory:	8th Kangping Road, Jiangning Economy & Technology Development Zone, Nanjing, 211106, China.

5.2 General Description of E.U.T.

Product Description:	Mobile product
Brand Name:	Cambridge Audio

5.3 Technical Specifications:

Operation Frequency:	2412MHz-2462MHz
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)
Number of Channel:	11 Channels
Data Rate:	802.11b: 1Mbps, 5.5Mbps, 11Mbps, 802.11g: 6Mbps, 9Mbps, 12Mbps, 18Mbps, 36Mbps, 48Mbps, 54Mbps
Antenna Type	Integral Remark: the two PIFA antennas are not working simultaneously.
Antenna Gain	2.0 dBi
Power Supply:	AC 100-230V 50/60Hz 150W

5.4 Test Mode

Test Mode	Description of Test Mode
Engineering mode	Using test software to control EUT working in continuous transmitting and receiving, and channel and modulation type.
Remark: Pretest the EUT at different test mode and found the worst case, the test worst case mode is recorded in the report.	

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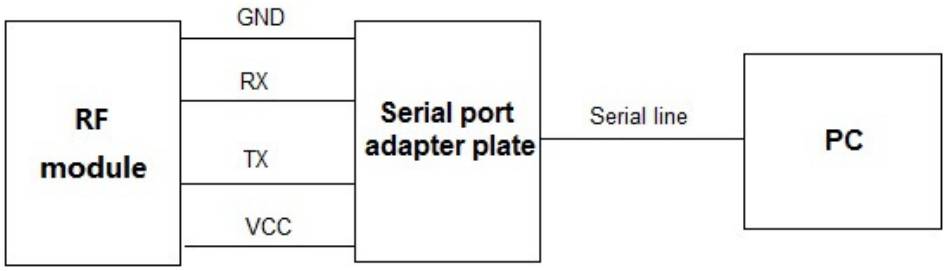
5.5 Description of Support Units

The EUT has been tested with support equipments as below.

Description	Manufacturer	Model No.	Supplied By
Laptop	Lenovo	ThinkPad X 100e	SGS
Serial port adapter plate	/	/	SGS

Software name	Manufacturer	Version	Supplied By
HyperTerminal	Microsoft	1.3.3.0881	SGS

Description of connection



5.6 Test Channel

Using test software was control EUT work in continuous transmitting in max power level 8 (Range 8-15) mode. And select test channel as below:

For 802.11b/g

Channel	Frequency
The lowest channel(CH1)	2412MHz
The middle channel(CH6)	2437MHz
The Highest channel(CH11)	2462MHz

Through Pre-scan under all rate at lowest channel 1(CH1), the data rate as below table described is the worst case, so we chose these data rate for test.

Type	Data rate
802.11b	1Mbps
802.11g	6Mbps

5.7 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
No.588 West Jindu Road, Songjiang District, Shanghai, China.201612.
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5.8 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L0599)**

  CNAS has accredited SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing. Date of expiry: 2014-07-26.

- **FCC – Registration No.: 402683**

  SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered and fully described in a report filed with the Federal Communications Commission (FCC). The acceptance letter from the FCC is maintained in our files. Registration No.: 402683, Expiry Date: 2015-02-22.

- **Industry Canada (IC) – IC Assigned Code: 8617A**

  The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 8617A-1. Expiry Date: 2017-06-18.

- **VCCI (Member No.: 3061)**

  The 3m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-3868 and C-4336 respectively. Date of Registration: 2012-05-29. Date of Expiry: 2015-05-28.

5.9 Measurement Uncertainty

No.	Parameter	Measurement Uncertainty
1	Radio Frequency	< ±1 x 10^{-5}
2	Total RF power, conducted	< ±1.5 dB
3	RF power density, conducted	< ±3 dB
4	Spurious emissions, conducted	< ±3 dB
5	All emissions, radiated	< ±6 dB (30MHz – 1GHz) < ±6 dB (above 1GHz)
6	Temperature	< ±1°C
7	Humidity	< ±5 %
8	DC and low frequency voltages	< ±3 %

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6 Equipments Used during Test

Item	Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due date
1	EMI test receiver	Rohde & Schwarz	ESCS30	100086	2014-02-14	2015-02-13
2	Line impedance stabilization network	SCHWARZBECK	NSLK8127	8127-490	2014-02-14	2015-02-13
3	Line impedance stabilization network	ETS	3816/2	00034161	2014-02-14	2015-02-13
4	Spectrum Analyzer	Rohde & Schwarz	FSP-30	2705121009	2014-02-14	2015-02-13
5	EMI test receiver	Rohde & Schwarz	ESU40	100109	2014-02-14	2015-02-13
6	Active Loop Antenna (9kHz to 30MHz)	Rohde & Schwarz	FMZB 1519	1519-034	2014-03-19	2015-03-18
7	Broadband UHF-VHF ANTENNA (25MHz to 2GHz)	SCHWARZBECK	VULB9168	9168-313	2014-02-14	2015-02-13
8	Ultra broadband antenna (25MHz to3GHz)	Rohde & Schwarz	HL562	100227	2013-10-09	2014-10-08
9	Horn Antenna (1GHz to 18GHz)	Rohde & Schwarz	HF906	100284	2014-02-14	2015-02-13
10	Horn Antenna (1GHz to 18GHz)	SCHWARZBECK	BBHA9120D	9120D-679	2013-07-28	2014-07-27
11	Horn Antenna (14GHz to 40GHz)	SCHWARZBECK	BBHA 9170	BBHA9170373	2014-02-14	2015-02-13
12	Pre-amplifier (9KHz – 2GHz)	LNA6900	TESEQ	71033	2014-02-14	2015-02-13
13	Pre-amplifier (1GHz – 26.5GHz)	Rohde & Schwarz	SCU-F0118-G40-BZ4-CSS(F)	10001	2014-02-14	2015-02-13
14	Pre-amplifier (14GHz – 40GHz)	Rohde & Schwarz	SCU-F1840-G35-BZ3-CSS(F)	10001	2014-02-14	2015-02-13
15	Tunable Notch Filter	Wainwright instruments Gmbh	WRCT800.0/880.0-0.2/40-5SSK	9	2014-06-02	2015-06-01
16	High pass Filter	FSCW	HP 12/2800-5AA2	19A45-02	2014-06-02	2015-06-01
17	High-low temperature cabinet	Suzhou Zhihe	TL-40	50110050	2014-04-13	2015-04-12
18	AC power stabilizer	WOCEN	6100	51122	2014-06-02	2015-06-01
19	DC power	QJE	QJ30003SII	611145	2014-06-02	2015-06-01
20	Signal Generator (Interferer)	Agilent	SMR40	100555	2014-02-14	2015-02-13
21	Signal Generator (Blocker)	Rohde & Schwarz	SMJ100A	02.20.360.142	2014-02-14	2015-02-13
22	Splitter	Anritsu	MA1612A	M12265	/	/
23	Coupler	e-meca	803-S-1	900-M01	/	/

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7 Test Results

7.1 E.U.T. test conditions

Test Power: AC 120V, 60Hz

Requirements: 15.31(e) For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. For battery operated equipment, the equipment tests shall be performed using a new battery.

Operating Environment:

Temperature:	20.0 -25.0 °C
Humidity:	35-75 % RH
Atmospheric Pressure:	99.2 -102 kPa

Test frequencies: According to the 15.31(m) Measurements on intentional radiators or receivers, other than TV broadcast receivers, shall be performed and. if required. reported for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table:

Frequency range over which device operates	Number of frequencies	Location in the range of operation
1 MHz or less	1	Middle
1 to 10 MHz	2	1 near top and 1 near bottom
More than 10 MHz	3	1 near top. 1 near middle and 1 near bottom

Pursuant to Part 15.31(c) For swept frequency equipment, measurements shall be made with the frequency sweep stopped at those frequencies chosen for the measurements to be reported.

Test frequency is the lowest channel: 1 channel (2412MHz), middle channel: 39 channel (2437MHz) and highest channel: 11 channel (2462MHz) with fixed at channel.

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7.2 Antenna Requirement

Standard requirement:

15.203 requirement:

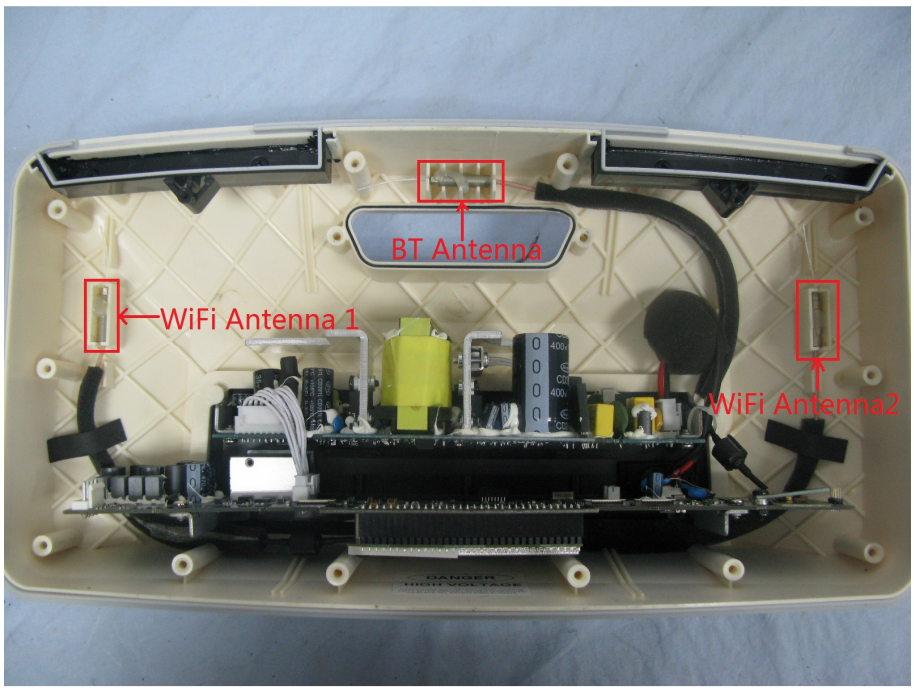
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is Plug-in antenna. The gain of the antenna is less than 2.0 dBi.



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7.3 Conducted Emissions on Mains Terminals

Frequency Range: 150 KHz to 30 MHz

Class/Severity: Class B

Limit:

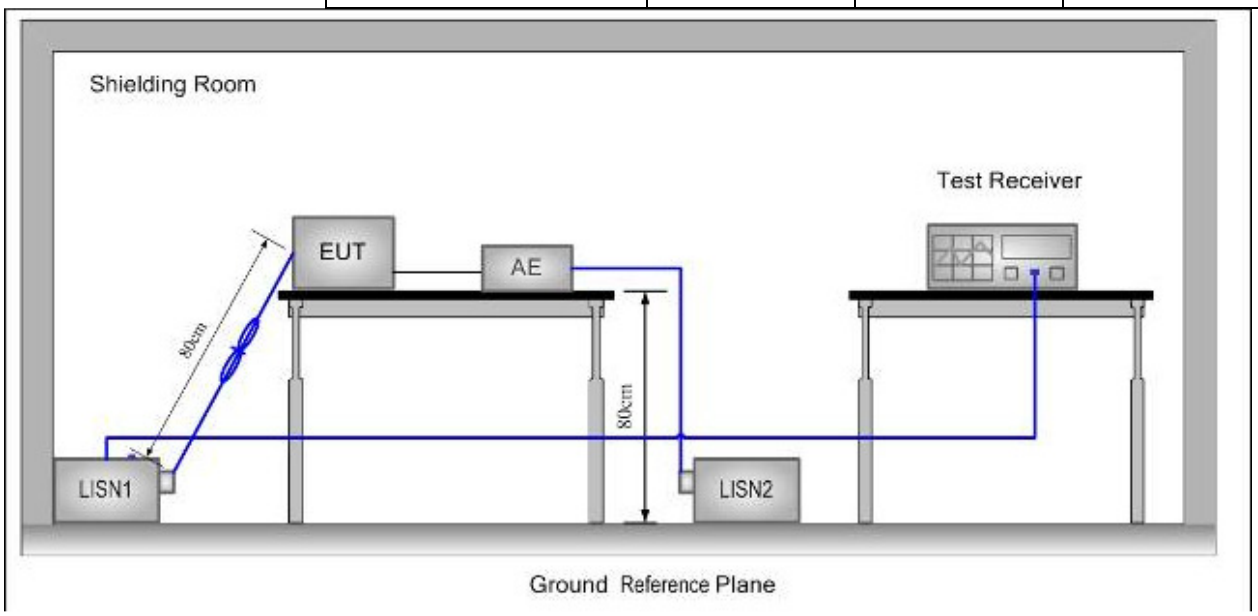
Frequency range MHz	Class B Limits: dB (μV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Note1: The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50MHz.

Note2: The lower limit is applicable at the transition frequency.

Test site/setup: Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
9KHz to 150Hz	Quasi-peak	200Hz	500Hz
150KHz to 30MHz	Quasi-peak	9kHz	30kHz



Test Procedure:

1. The mains terminal disturbance voltage was measured with the EUT in a shielded room.
2. The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN, which was bonded to the ground reference plane in the same way as the LISN for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded
3. The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane.

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And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, but separated from metallic contact with the ground reference plane by 0.1m of insulation.

4. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance was between the closest points of the LISN and the EUT. The mains lead of EUT excess 0.8m was folded back and forth parallel to the lead so as to form a horizontal bundle with a length between 0.3m and 0.4m. All other units of the EUT and associated equipment were at least 0.8 m from the LISN.

Remark: Pre-scan was performed with peak detected on all ports, Quasi-peak & average measurements were performed at the frequencies at which maximum peak emission level were detected. Pretest under all modes; choose the worst case mode (802.11b in Middle channel) record on the report. Please see the attached Quasi-peak and Average test results.

Test Result: Pass

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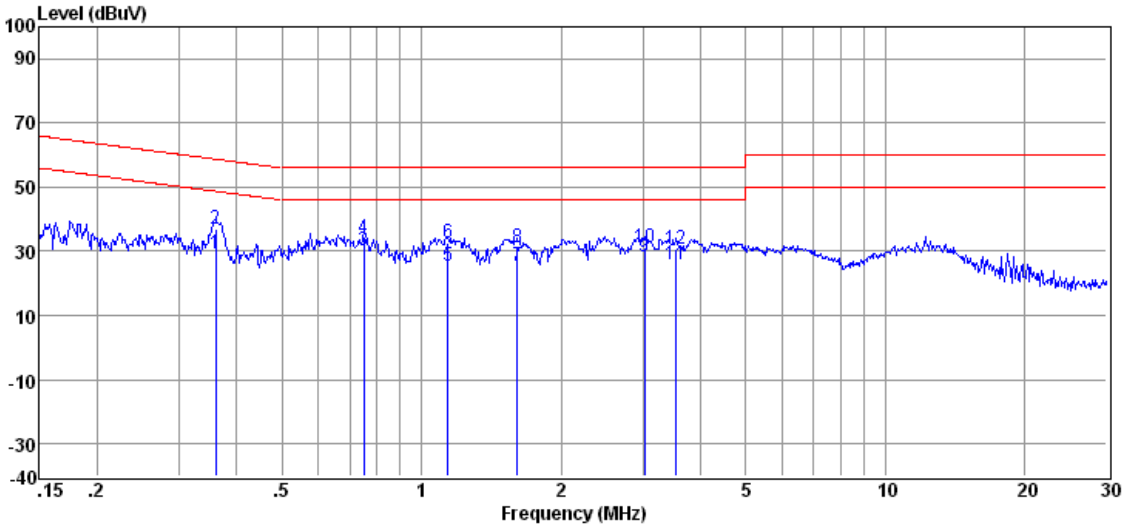
Test Data:

Test Mode:	802.11b	**Test Channel:**	Middle
Test Port:	AC Live Line		



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.360	28.73	0.25	0.10	29.08	48.74	-19.66	Average
2	0.360	36.73	0.25	0.10	37.08	58.74	-21.66	QP
3	0.751	29.72	0.21	0.10	30.03	46.00	-15.97	Average
4	0.751	33.72	0.21	0.10	34.03	56.00	-21.97	QP
5	1.141	25.28	0.21	0.10	25.59	46.00	-20.41	Average
6	1.141	32.28	0.21	0.10	32.59	56.00	-23.41	QP
7	1.610	24.92	0.30	0.10	25.32	46.00	-20.68	Average
8	1.610	30.92	0.30	0.10	31.32	56.00	-24.68	QP
9	3.025	27.82	0.37	0.15	28.34	46.00	-17.66	Average
10	3.025	30.82	0.37	0.15	31.34	56.00	-24.66	QP
11	3.547	25.35	0.38	0.16	25.89	46.00	-20.11	Average
12	3.547	30.35	0.38	0.16	30.89	56.00	-25.11	QP

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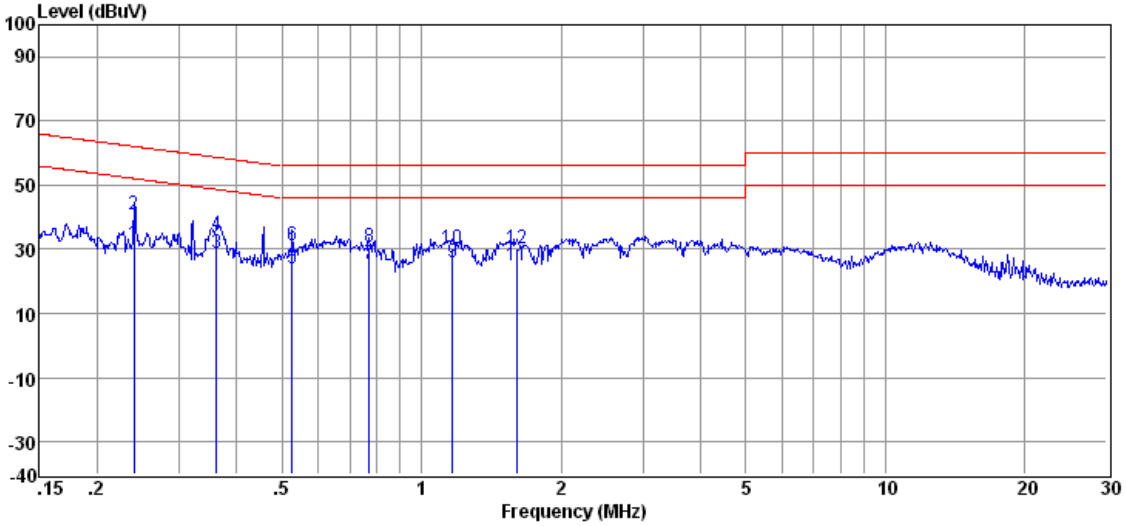
Test Port:	AC Neutral Line



Item	Freq.	Read Level	LISN Factor	Cable Loss	Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB)	(dB)	(dBµV)	(dBµV)	(dB)	
1	0.240	31.24	0.29	0.10	31.63	52.08	-20.45	Average
2	0.240	40.24	0.29	0.10	40.63	62.08	-21.45	QP
3	0.361	28.18	0.30	0.10	28.58	48.69	-20.11	Average
4	0.361	34.18	0.30	0.10	34.58	58.69	-24.11	QP
5	0.527	23.62	0.28	0.10	24.00	46.00	-22.00	Average
6	0.527	30.62	0.28	0.10	31.00	56.00	-25.00	QP
7	0.771	25.31	0.20	0.10	25.61	46.00	-20.39	Average
8	0.771	30.31	0.20	0.10	30.61	56.00	-25.39	QP
9	1.166	25.55	0.40	0.10	26.05	46.00	-19.95	Average
10	1.166	29.55	0.40	0.10	30.05	56.00	-25.95	QP
11	1.610	24.31	0.76	0.10	25.17	46.00	-20.83	Average
12	1.610	29.31	0.76	0.10	30.17	56.00	-25.83	QP

Remark: Level = Read Level + LISN/ISN Factor + Cable Loss.

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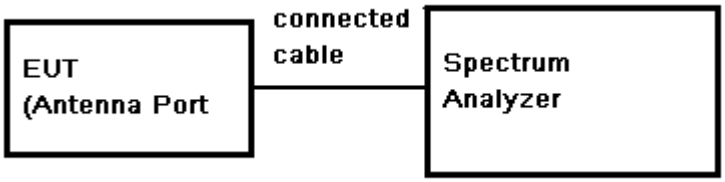
7.4 6dB Occupied Bandwidth

Test Configuration:



Test Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW=300KHz, VBW≥3* RBW, Span=30/50MHz, Sweep=auto
4. Mark the peak frequency and –6dB (upper and lower) frequency.
5. Repeat above procedures until all frequency measured was complete.

Limit: ≥ 500 kHz

Test Result: Pass

Test Data:

Antenna A:

Test mode: 802.11b

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
Low	2412	11.70	500	PASS
Mid	2437	12.12	500	PASS
High	2462	11.52	500	PASS

Test mode: 802.11g

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
Low	2412	16.62	500	PASS
Mid	2437	16.62	500	PASS
High	2462	16.62	500	PASS

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Antenna B:

Test mode: 802.11b

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
Low	2412	12.00	500	PASS
Mid	2437	11.52	500	PASS
High	2462	12.06	500	PASS

Test mode: 802.11g

CH	Frequency (MHz)	Bandwidth (MHz)	Limit Bandwidth (KHz)	Result
Low	2412	16.62	500	PASS
Mid	2437	16.62	500	PASS
High	2462	16.62	500	PASS

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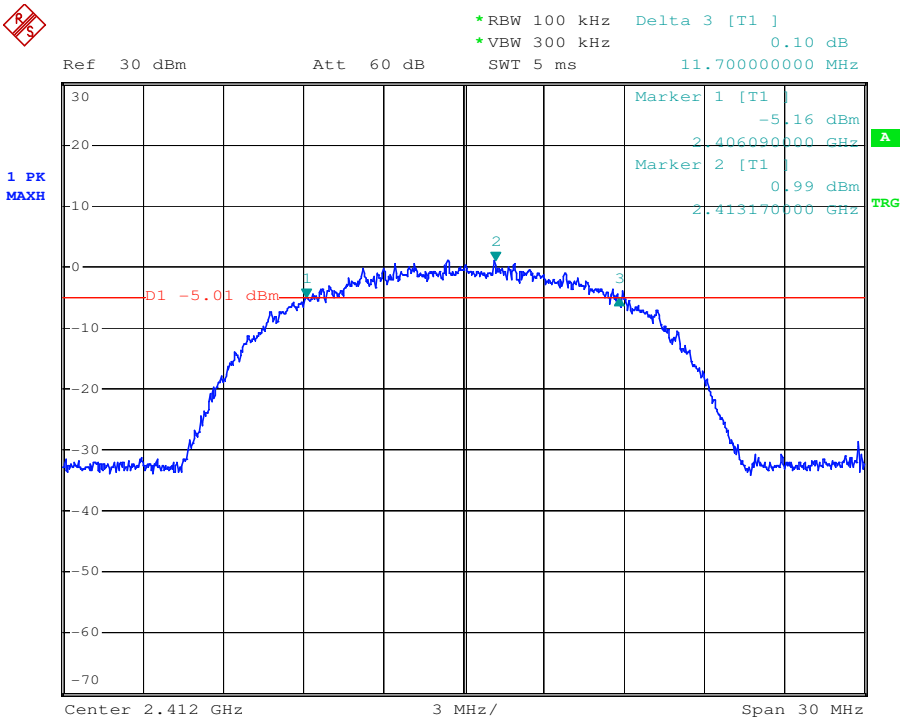
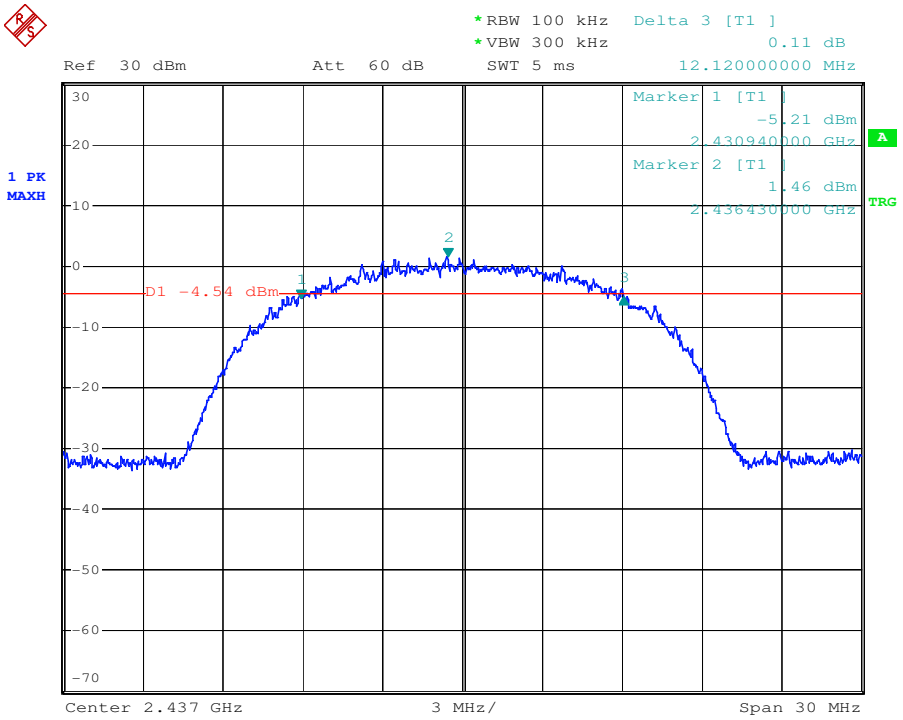
Test plot as follows:

Antenna A:

Test mode: 802.11b **Channel: Lowest**



Test mode: 802.11b **Channel: Middle**



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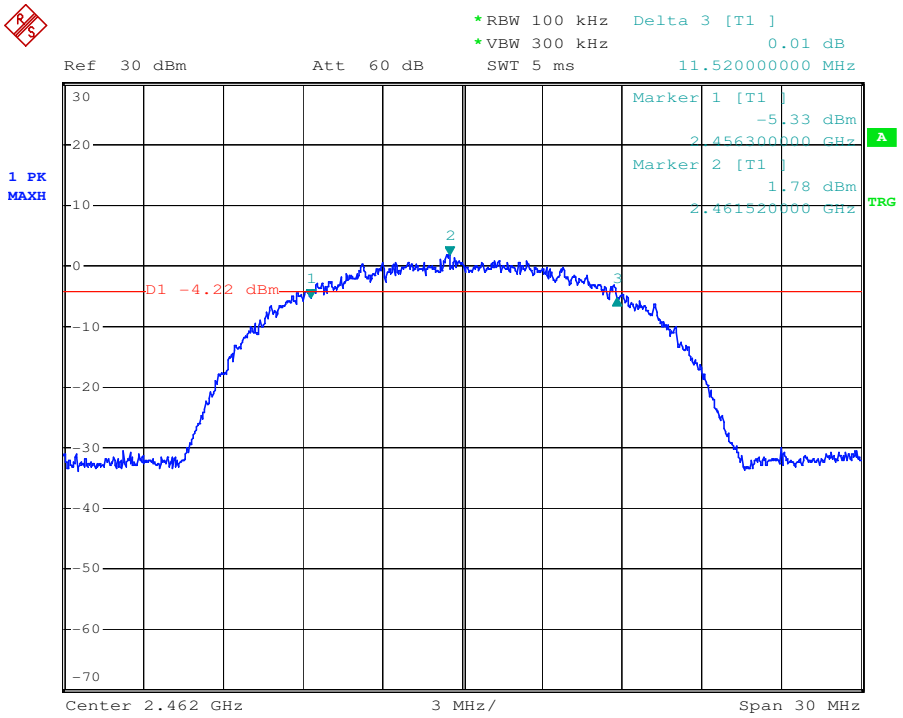
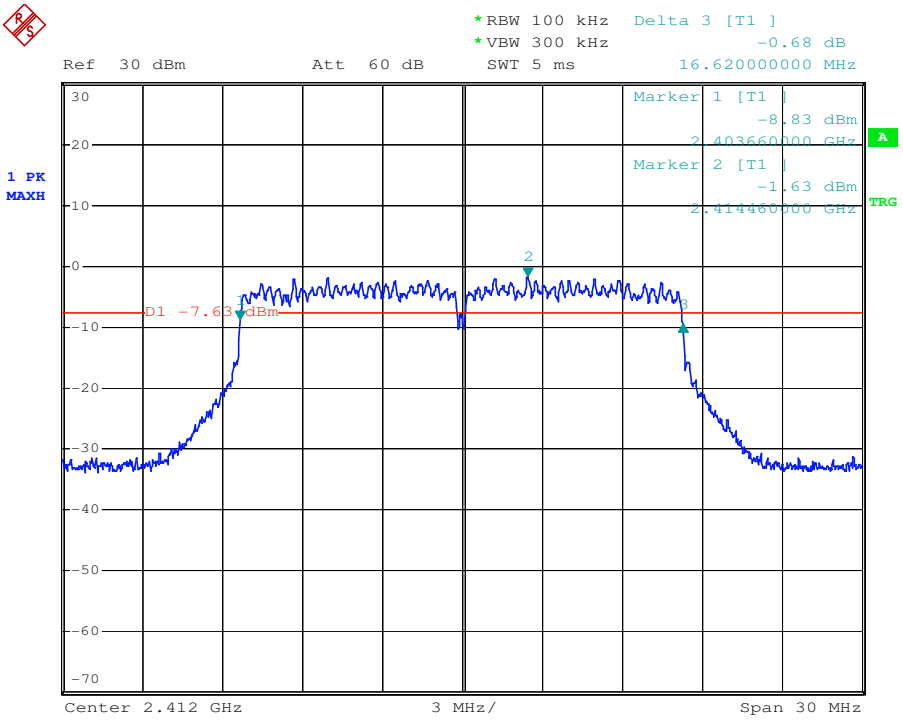
Test mode: 802.11b **Channel: Highest**



Test mode: 802.11g **Channel: Lowest**



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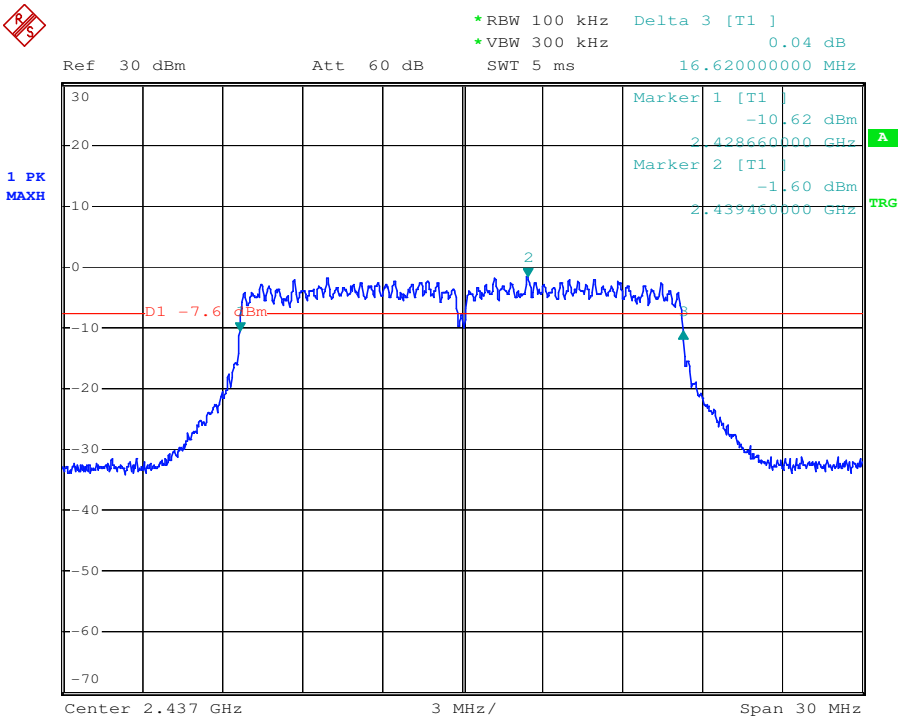
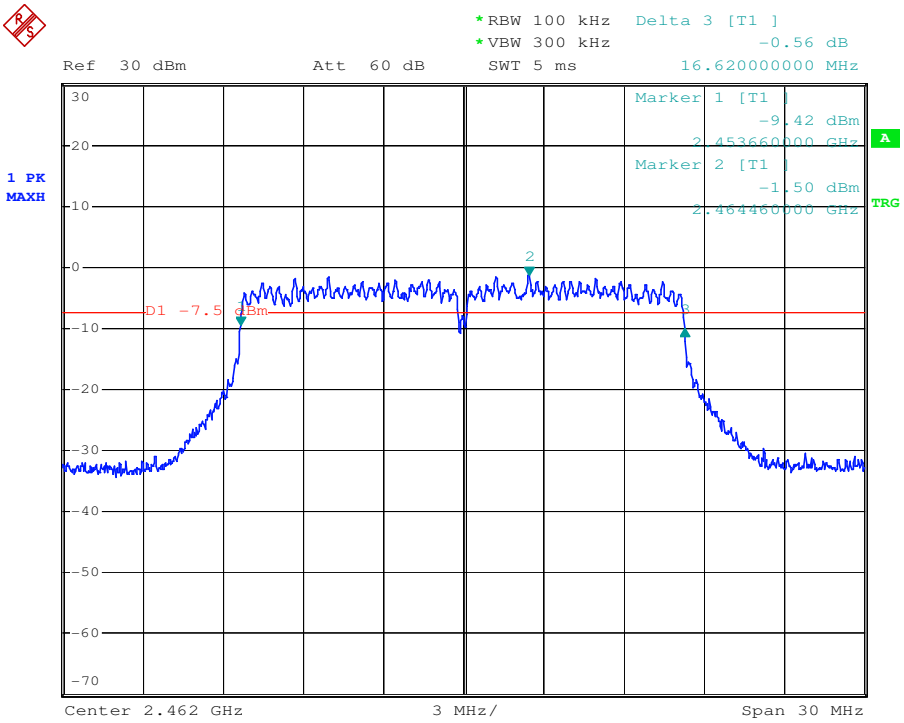
Test mode: 802.11g **Channel: Middle**



Test mode: 802.11g **Channel: Highest**



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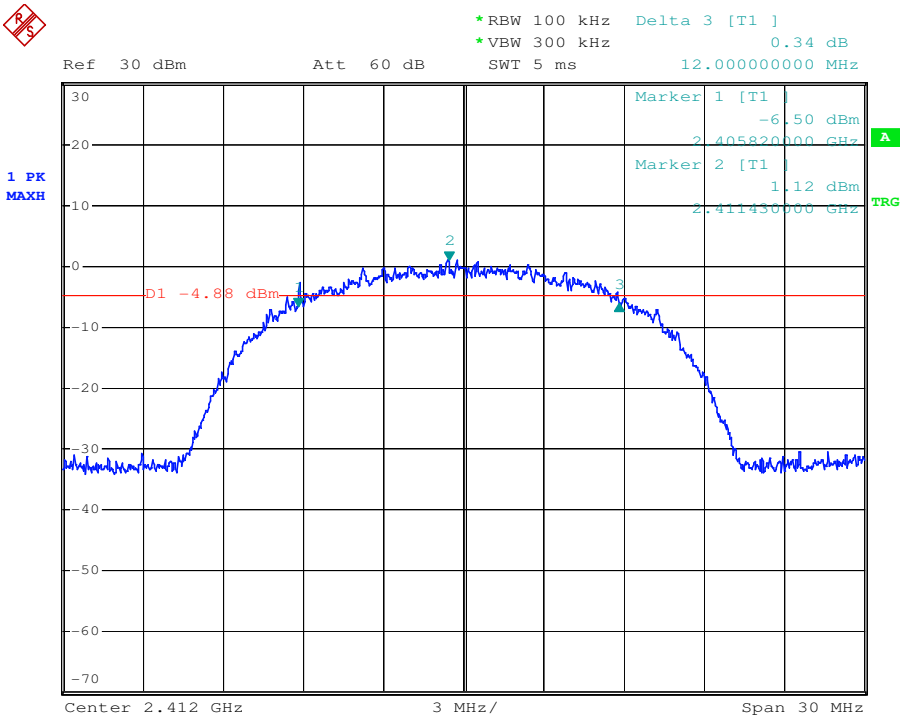
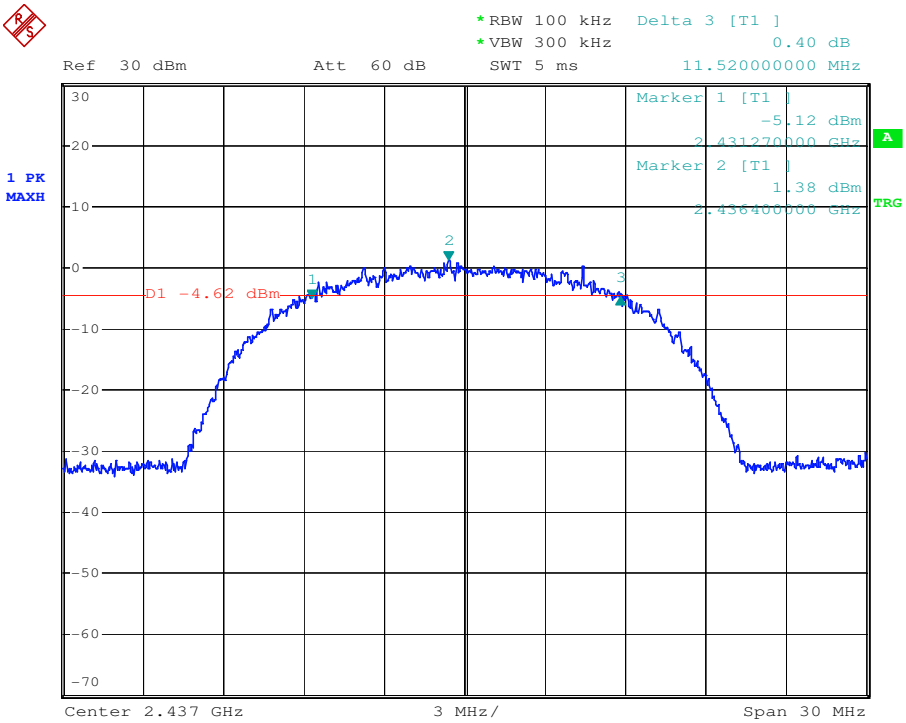
Antenna B:

Test mode: 802.11b **Channel: Lowest**



Test mode: 802.11b **Channel: Middle**



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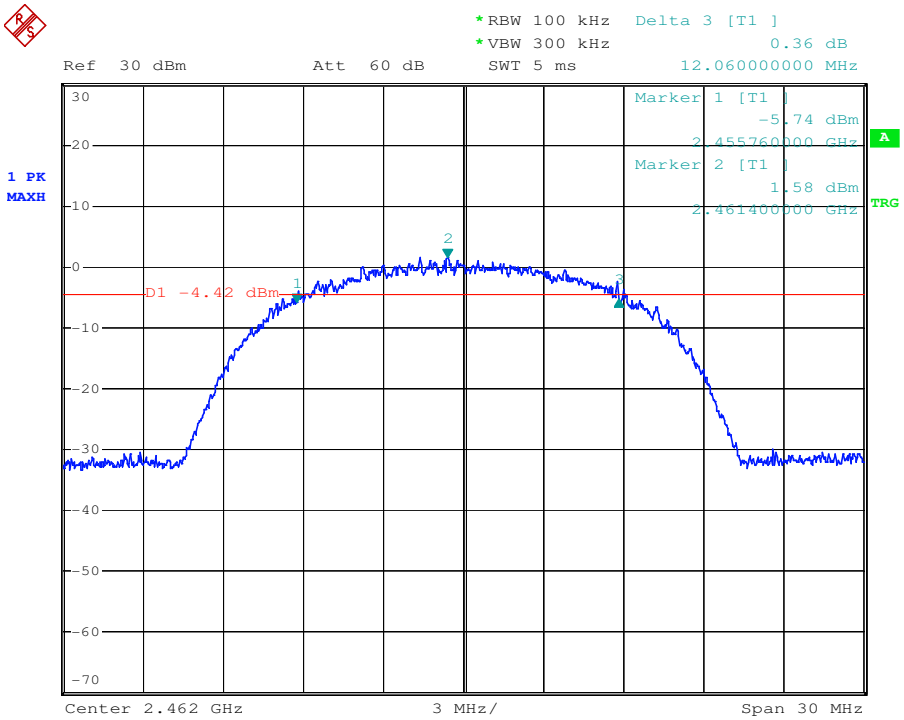
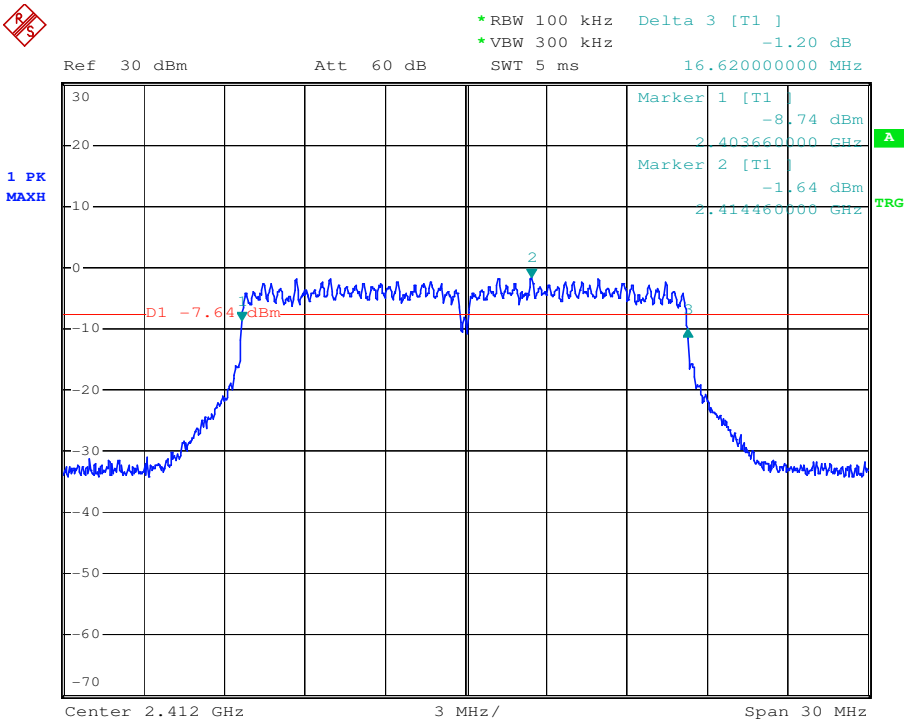
Test mode: 802.11b **Channel: Highest**



Test mode: 802.11g **Channel: Lowest**



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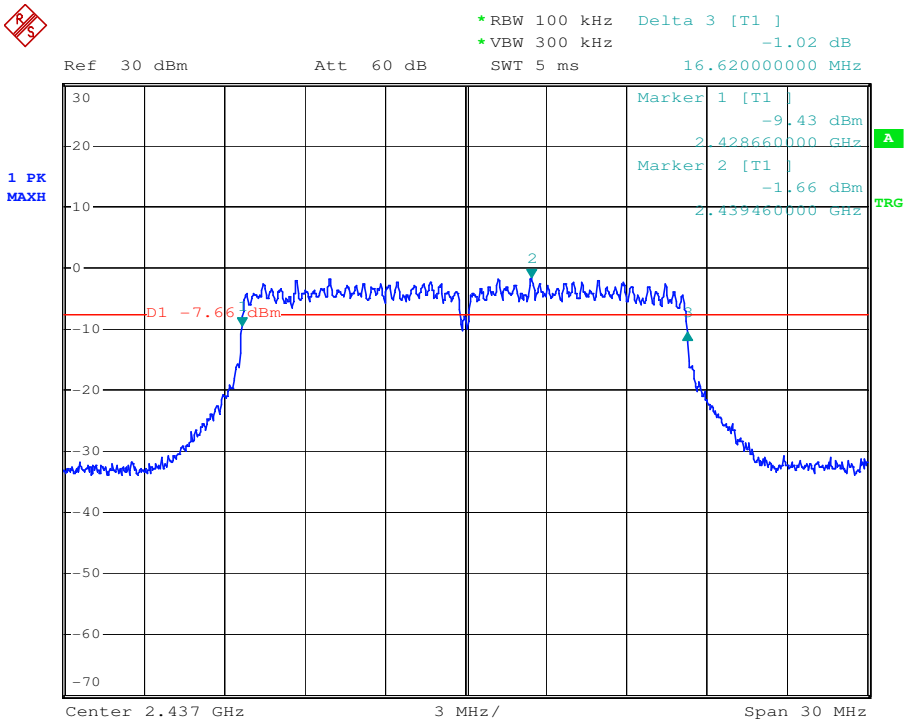
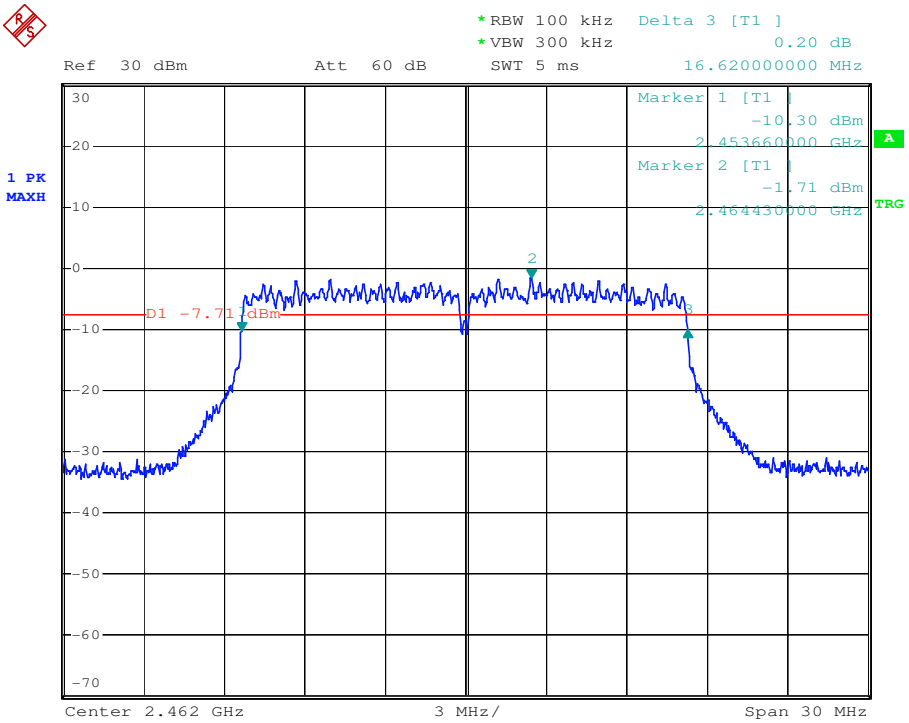
Test mode: 802.11g **Channel: Middle**



Test mode: 802.11g **Channel: Highest**



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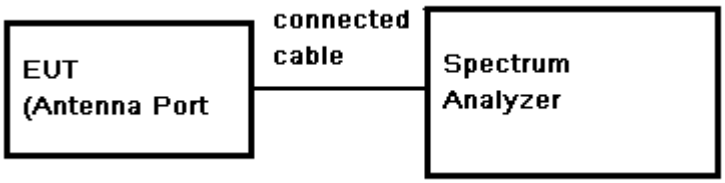
7.5 Conducted Peak Output Power

Test Configuration:



Test Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum.
3. Set the occur band to the entire emission 6dB bandwidth of the signal.
4. Record the max. Power channel reading.
5. Repeat above procedures until all the frequency measured were complete.

Test Limit: 30dBm

Test Result: Pass

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Test Data:
Antenna A:

Test mode	Test Channel	Reading Power (dBm)	Cable Loss (dB)	Output Power (dBm)	Output Power (mW)	Power Limit (dBm)	Result
802.11b	Lowest	17.13	0.5	17.63	57.94	30	PASS
	Middle	17.59	0.5	18.09	64.42	30	PASS
	Highest	17.88	0.5	18.38	68.87	30	PASS
802.11g	Lowest	19.06	0.5	19.56	90.36	30	PASS
	Middle	19.03	0.5	19.53	89.74	30	PASS
	Highest	19.19	0.5	19.69	93.11	30	PASS

Antenna B:

Test mode	Test Channel	Reading Power (dBm)	Cable Loss (dB)	Output Power (dBm)	Output Power (mW)	Power Limit (dBm)	Result
802.11b	Lowest	17.25	0.5	17.75	59.57	30	PASS
	Middle	17.49	0.5	17.99	62.95	30	PASS
	Highest	17.65	0.5	18.15	65.31	30	PASS
802.11g	Lowest	18.97	0.5	19.47	88.51	30	PASS
	Middle	19.01	0.5	19.51	89.33	30	PASS
	Highest	19.05	0.5	19.55	90.16	30	PASS

Remark: Output Peak Power = Reading Peak Power + Cable loss

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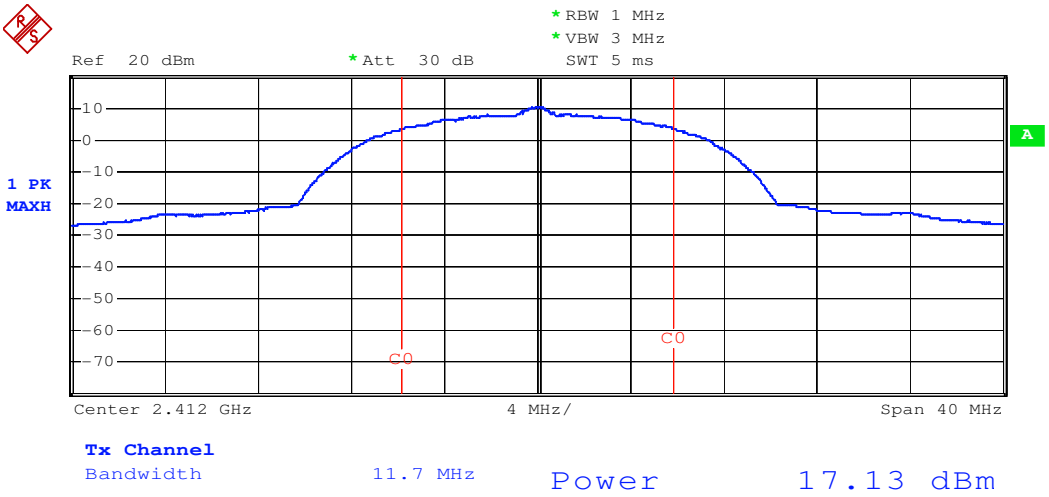
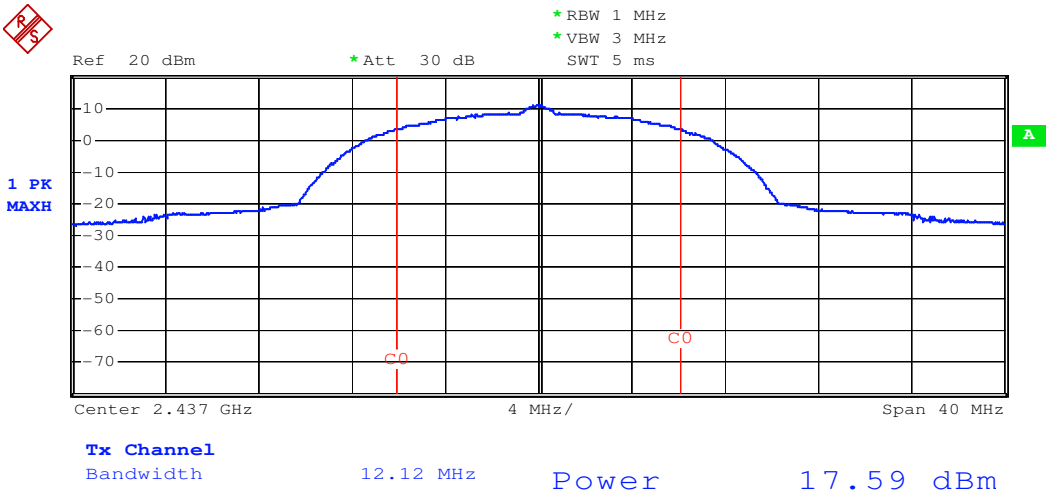
Test result plot as follows:
Antenna A:

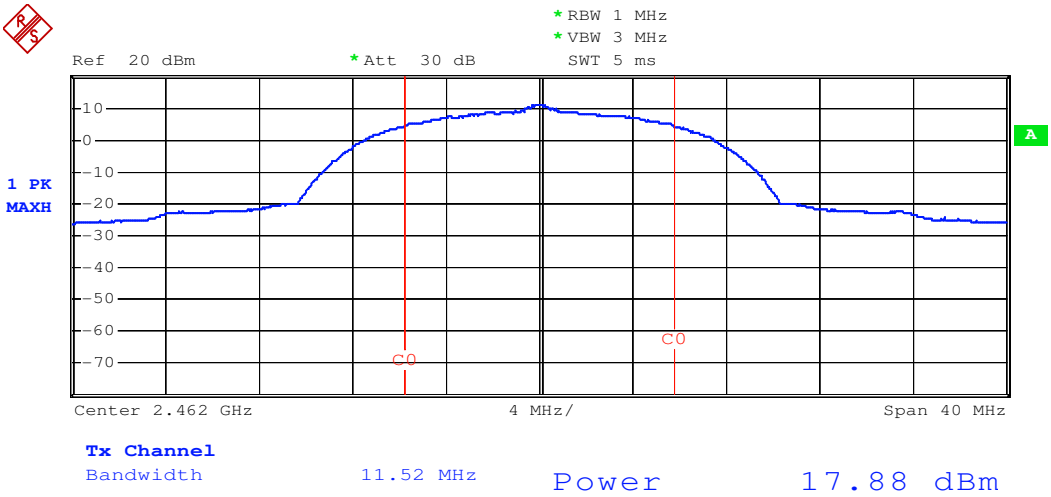
Test mode: 802.11b **Channel: Lowest**



Test mode: 802.11b **Channel: Middle**



Test mode: 802.11b **Channel: Highest**



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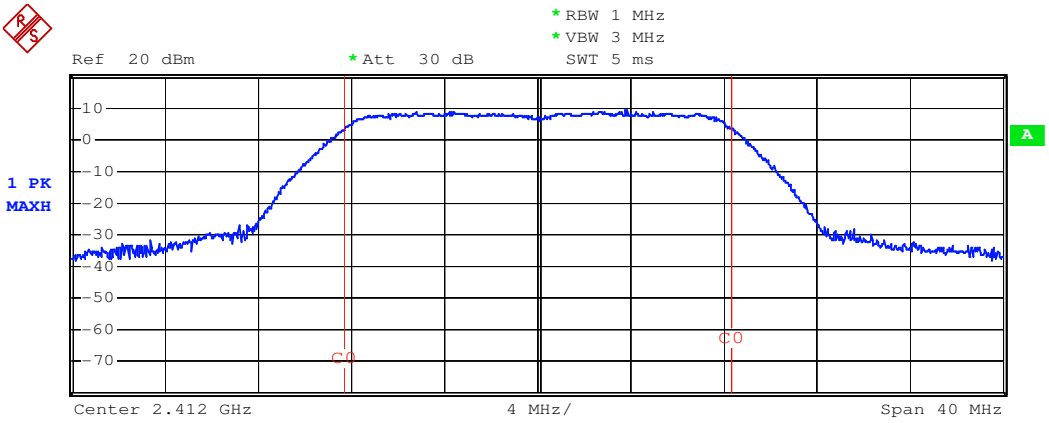
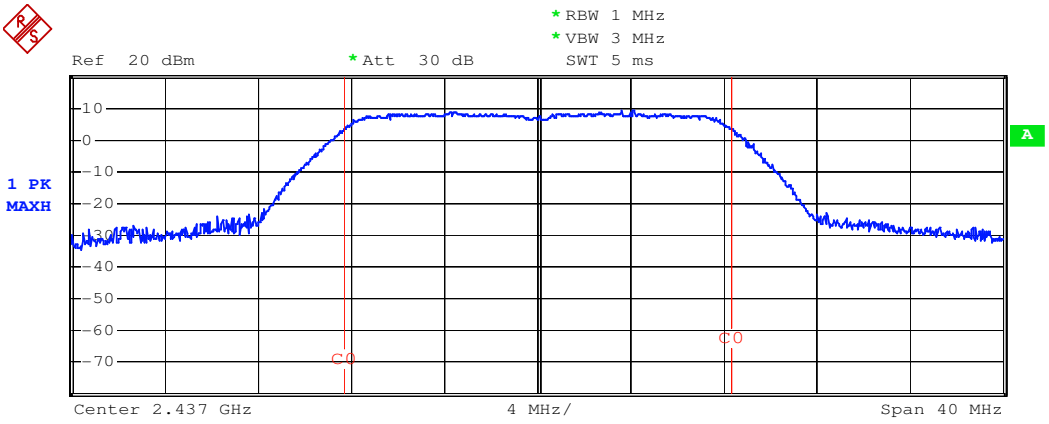
Test mode: 802.11g **Channel: Lowest**



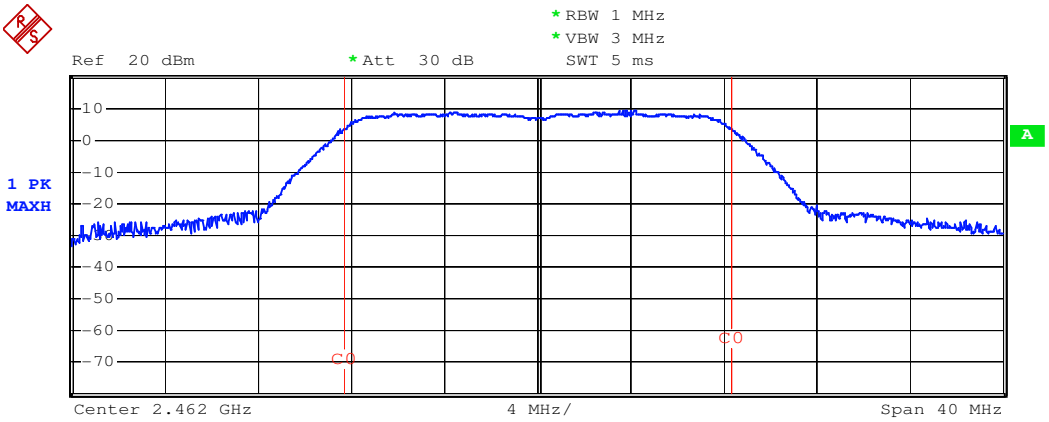
Tx Channel
Bandwidth 16.62 MHz Power 19.06 dBm

Test mode: 802.11g **Channel: Middle**



Tx Channel
Bandwidth 16.62 MHz Power 19.03 dBm

Test mode: 802.11g **Channel: Highest**



Tx Channel
Bandwidth 16.62 MHz Power 19.19 dBm

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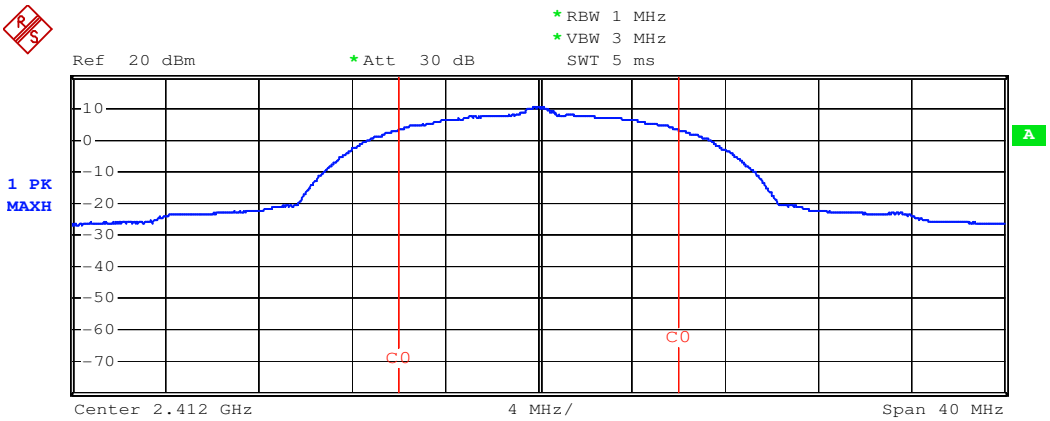
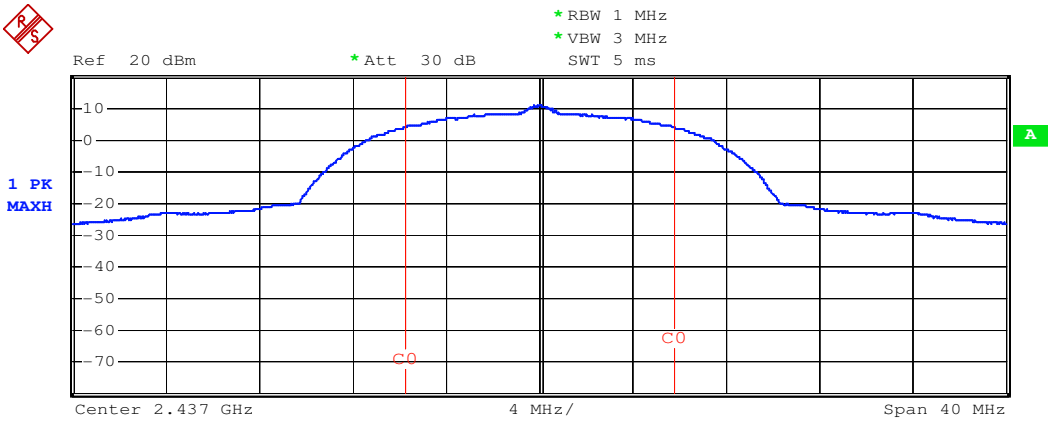
Antenna B:

Test mode: 802.11b **Channel: Lowest**



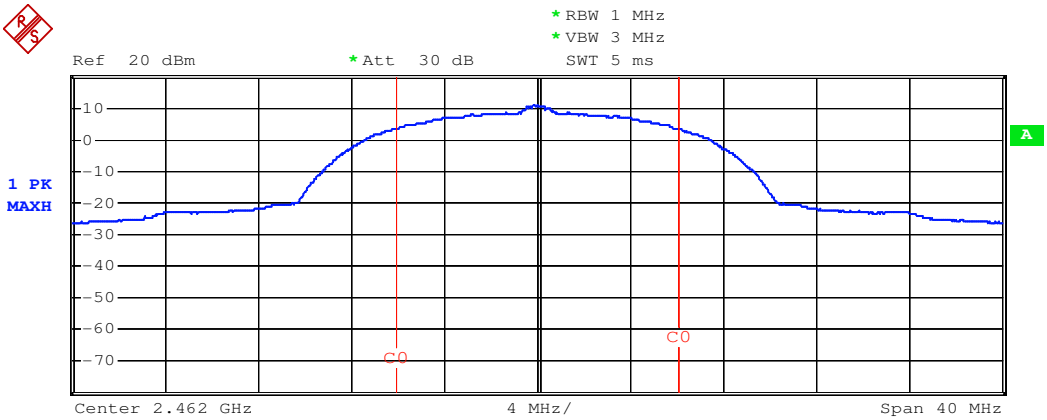
Tx Channel
Bandwidth 12 MHz Power 17.25 dBm

Test mode: 802.11b **Channel: Middle**



Tx Channel
Bandwidth 11.52 MHz Power 17.49 dBm

Test mode: 802.11b **Channel: Highest**



Tx Channel
Bandwidth 12.06 MHz Power 17.65 dBm

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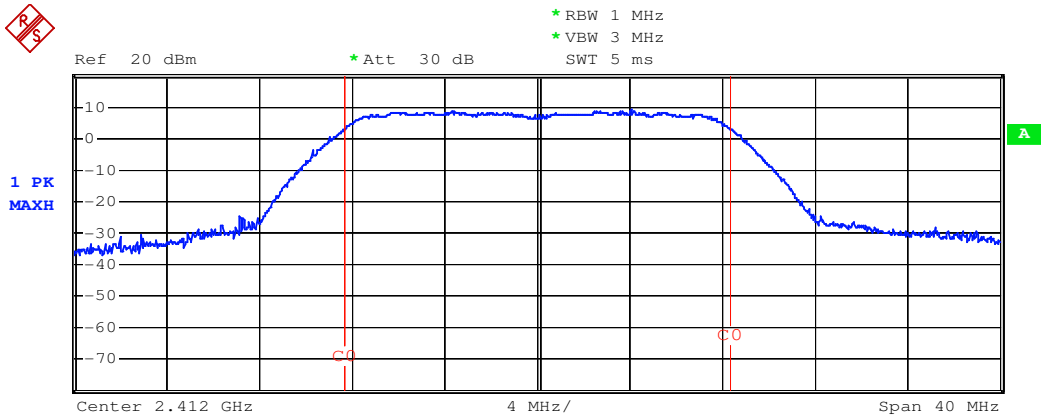
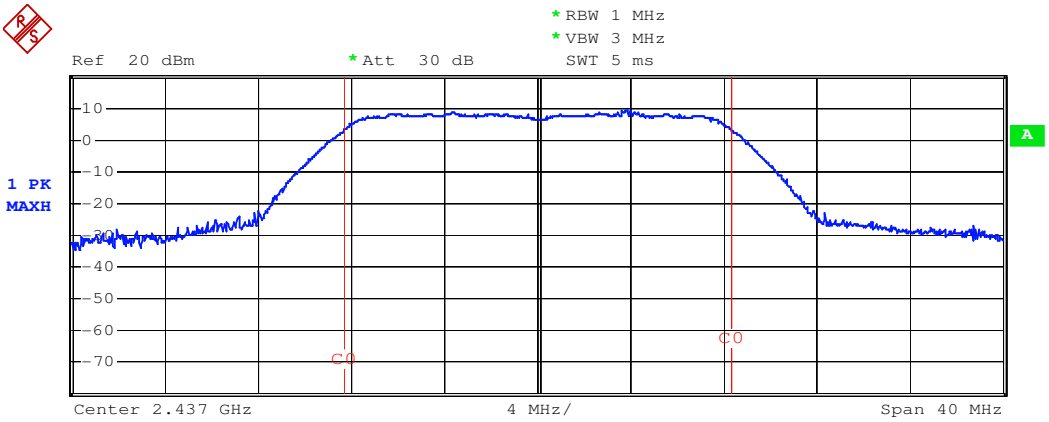
Test mode: 802.11g **Channel: Lowest**



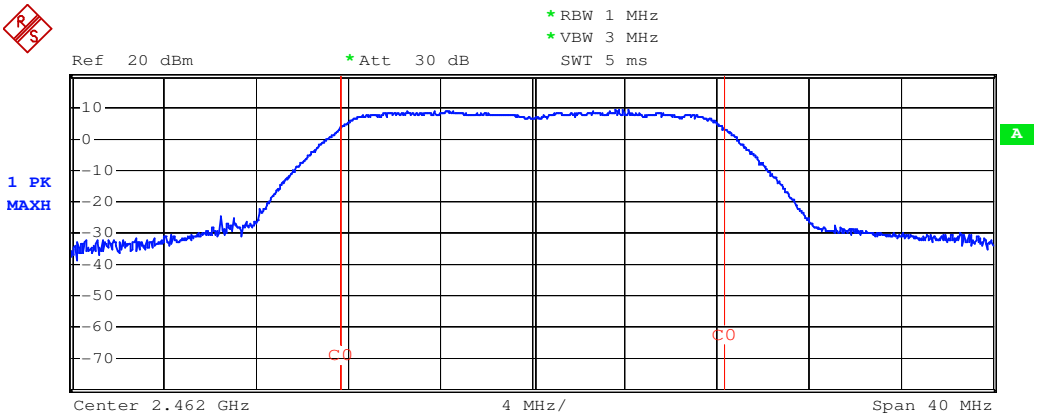
Tx Channel
Bandwidth 16.62 MHz Power 18.97 dBm

Test mode: 802.11g **Channel: Middle**



Tx Channel
Bandwidth 16.62 MHz Power 19.01 dBm

Test mode: 802.11g **Channel: Highest**



Tx Channel
Bandwidth 16.62 MHz Power 19.05 dBm

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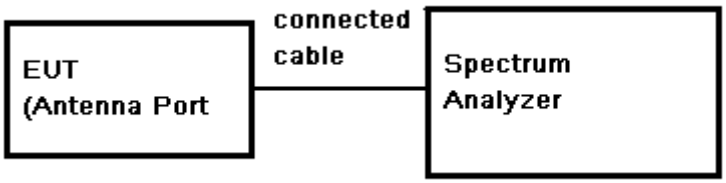
7.6 Peak Power Spectral Density

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: Center Frequency= Channel Frequency, RBW = 3 kHz VBW = 10 kHz. Span= fully encompass the bandwidth, Sweep = auto; Detector Function = Peak Trace mode=max hold,
3. Set MKR=Center Frequency, Trace=Clear Write.
4. Adjust the Span = 300 kHz, Sweep Time=100s, Trace=Max Hold, MKR=Peak Search.
5. Record the marker level for the particular mode.
6. Repeat these steps for other channel and device modes.

Test Limit: 8dBm/3kHz

Test Result: Pass

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Test Data:

Antenna A:

Test mode: 802.11b

CH	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	RF Power Density (dBm)	Limit (dBm)	Result
LOW	2412	-11.51	0.5	-9.01	8	PASS
MID	2437	-10.84	0.5	-8.34	8	PASS
HIGH	2462	-10.58	0.5	-8.08	8	PASS

Test mode: 802.11g

CH	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	RF Power Density (dBm)	Limit (dBm)	Result
LOW	2412	-14.07	0.5	-11.57	8	PASS
MID	2437	-13.95	0.5	-11.45	8	PASS
HIGH	2462	-13.71	0.5	-11.21	8	PASS

Antenna B:

Test mode: 802.11b

CH	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	RF Power Density (dBm)	Limit (dBm)	Result
LOW	2412	-11.30	0.5	-8.80	8	PASS
MID	2437	-10.90	0.5	-8.40	8	PASS
HIGH	2462	-10.77	0.5	-8.27	8	PASS

Test mode: 802.11g

CH	Frequency (MHz)	Reading (dBm)	Cable Loss (dB)	RF Power Density (dBm)	Limit (dBm)	Result
LOW	2412	-14.00	0.5	-11.50	8	PASS
MID	2437	-13.76	0.5	-11.26	8	PASS
HIGH	2462	-13.45	0.5	-10.95	8	PASS

Remark: RF Power Density = Reading + Cable loss + Antenna Gain

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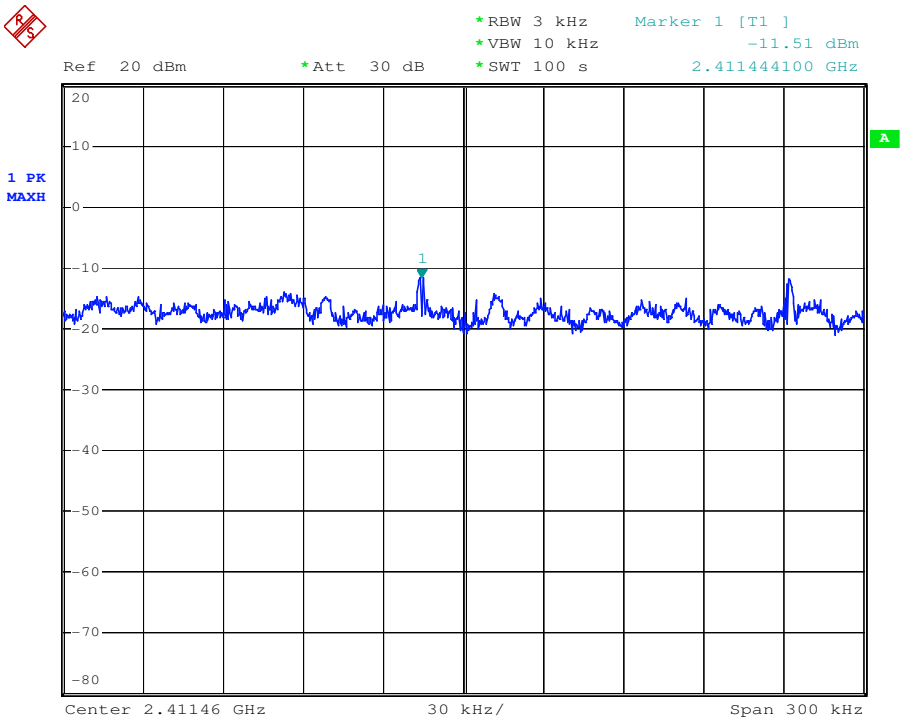
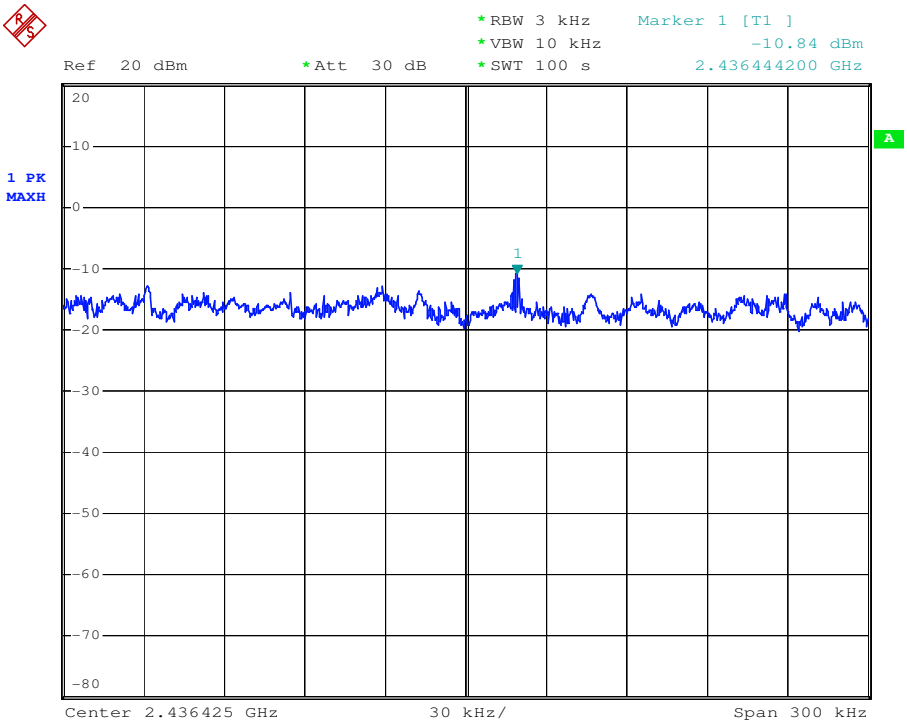
Test result plot as follows:
Antenna A:

Test mode: 802.11b **Channel: Lowest**



Test mode: 802.11b **Channel: Middle**



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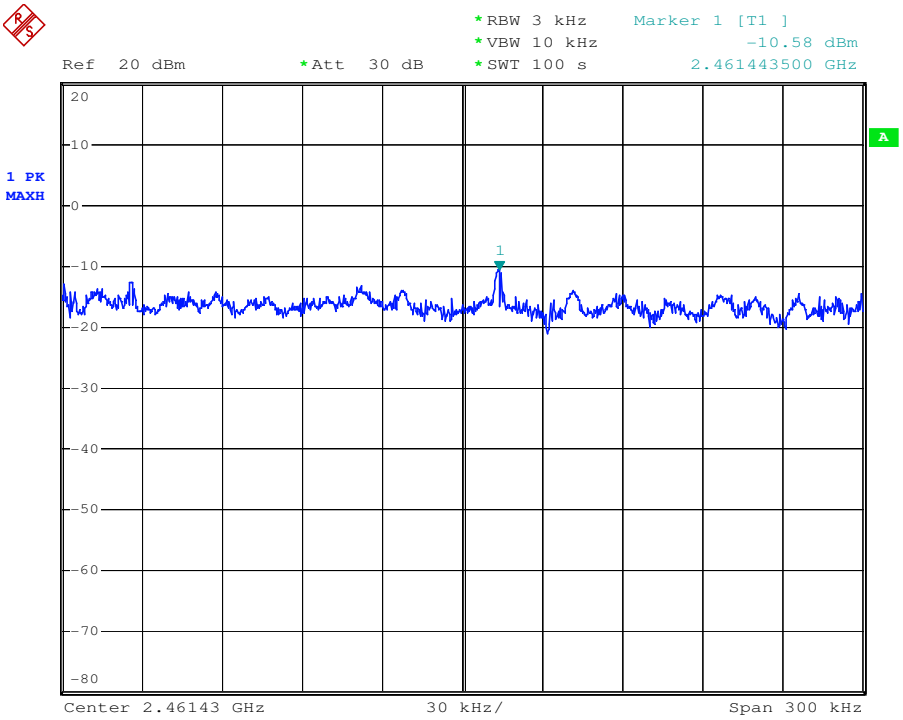
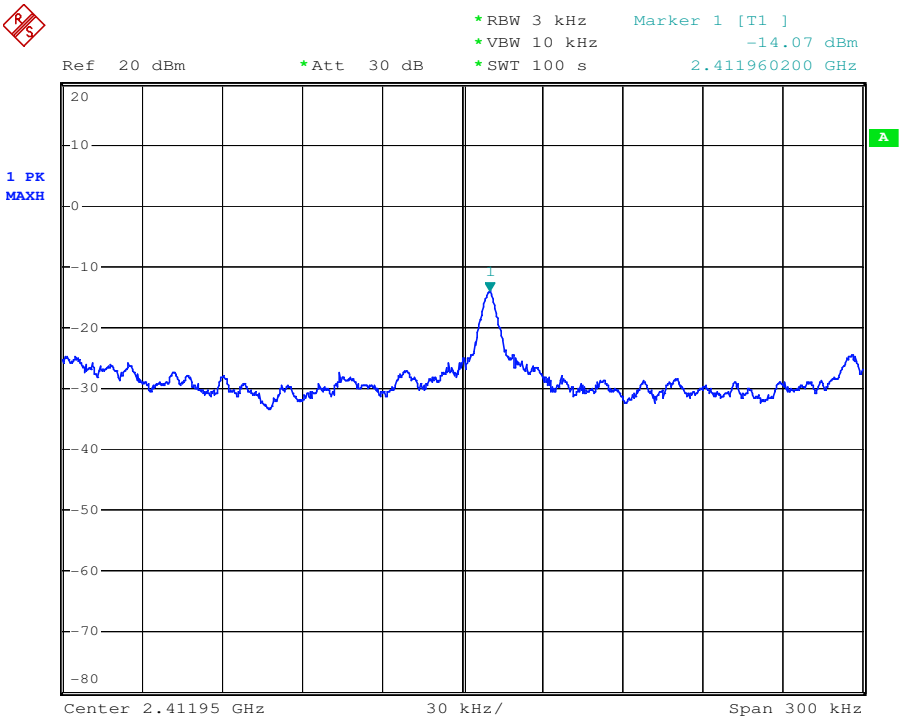
Test mode: 802.11b **Channel: Highest**



Test mode: 802.11g **Channel: Lowest**



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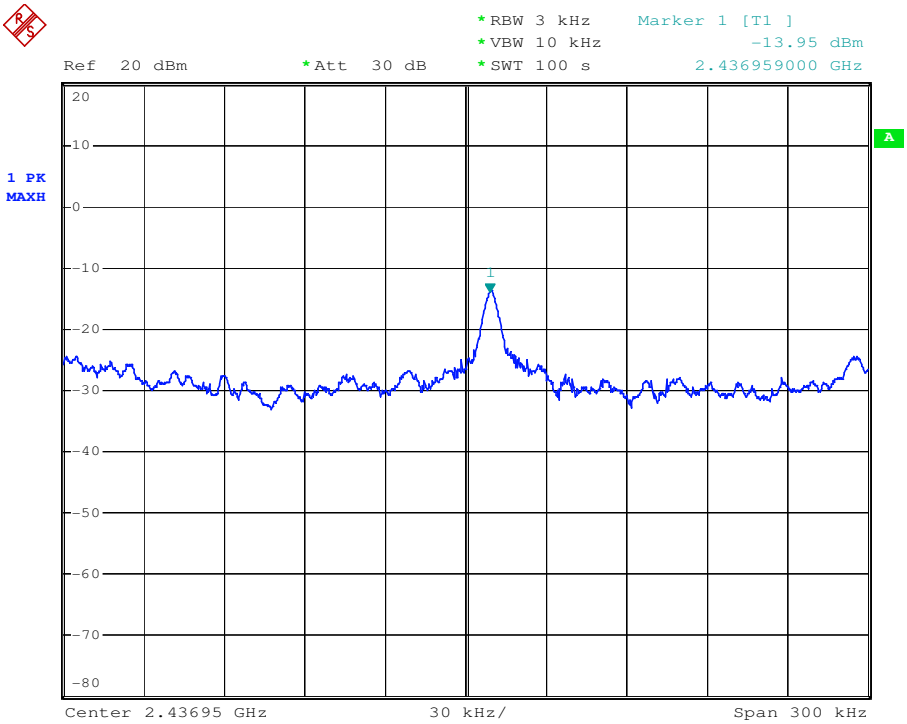
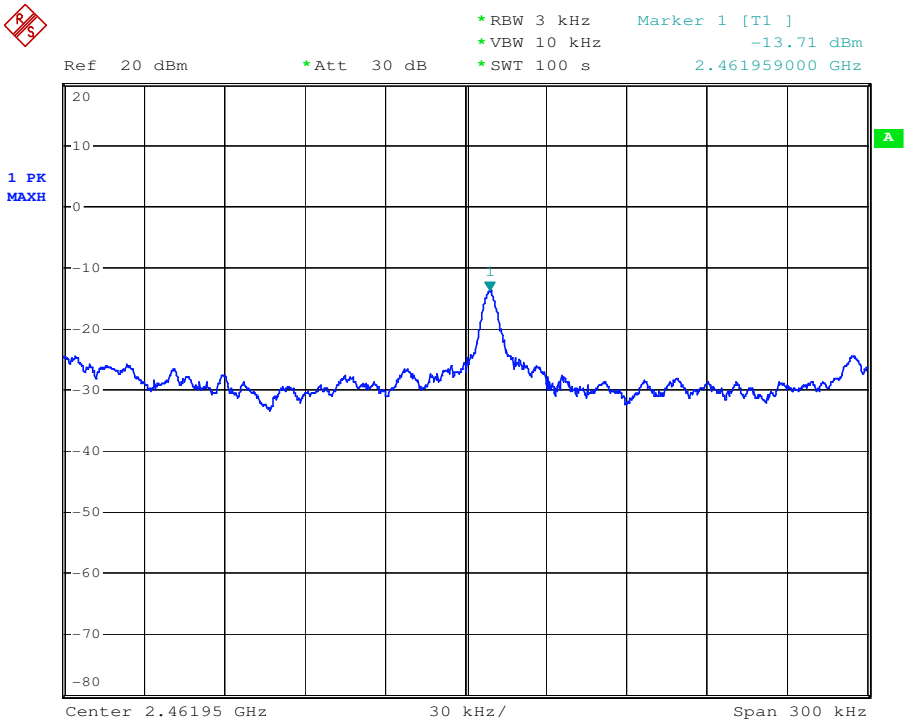
Test mode: 802.11g **Channel: Middle**



Test mode: 802.11g **Channel: Highest**



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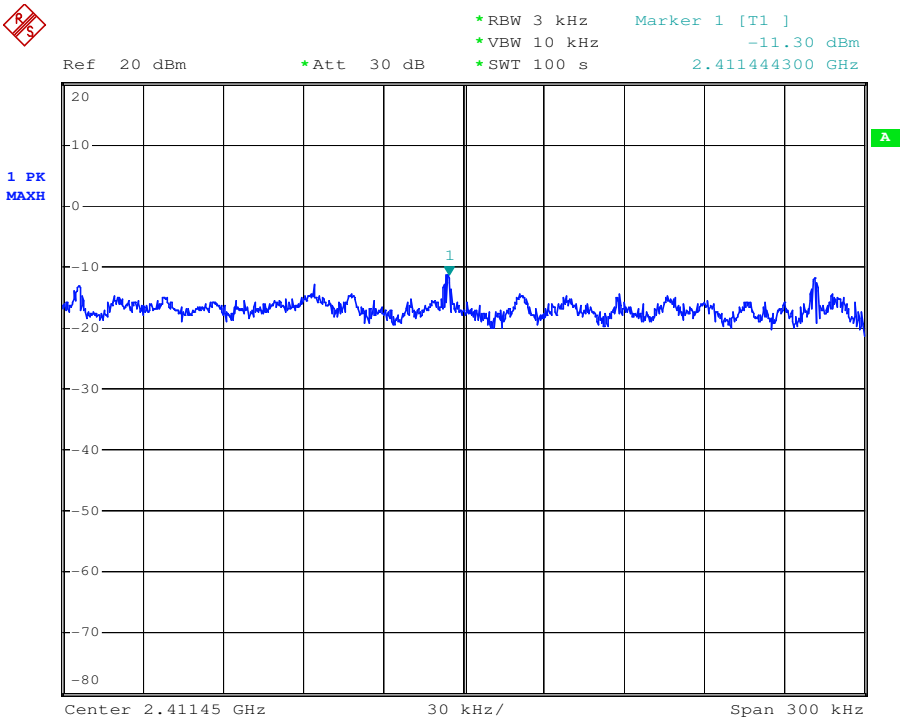
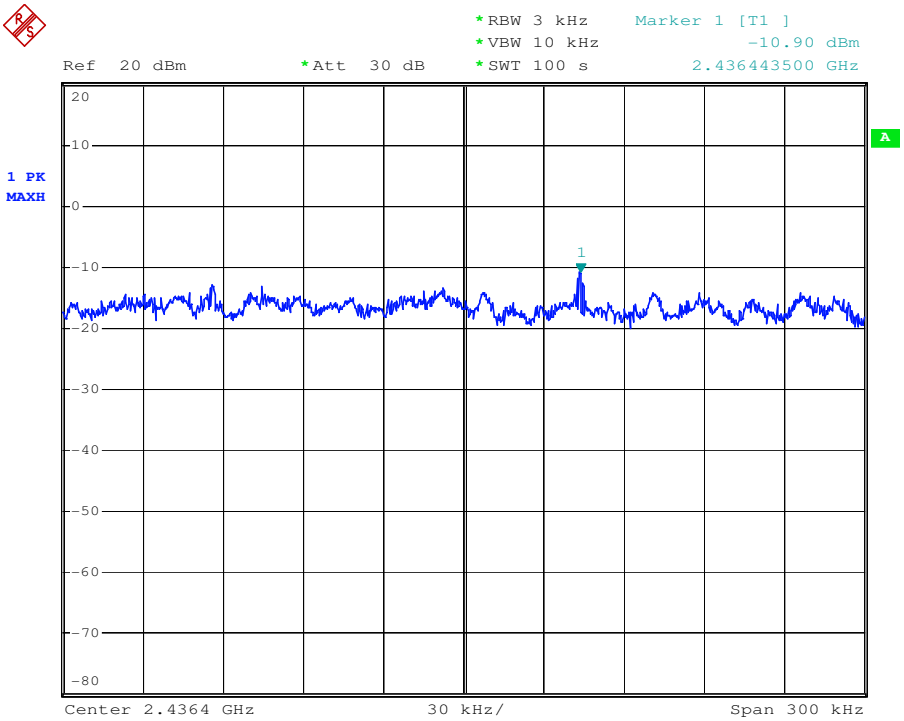
Antenna B:

Test mode: 802.11b **Channel: Lowest**



Test mode: 802.11b **Channel: Middle**



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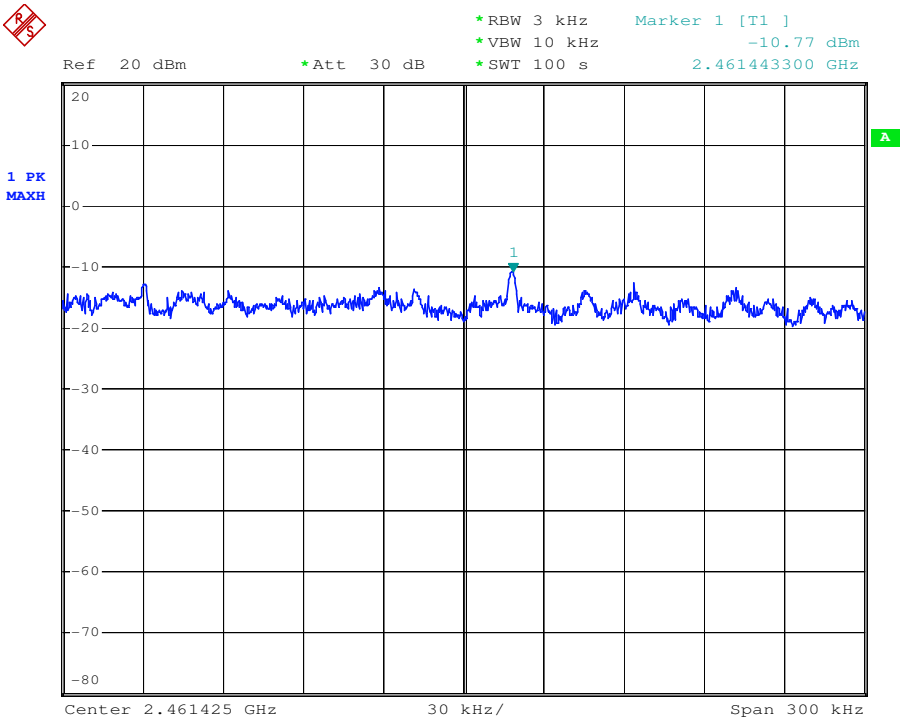
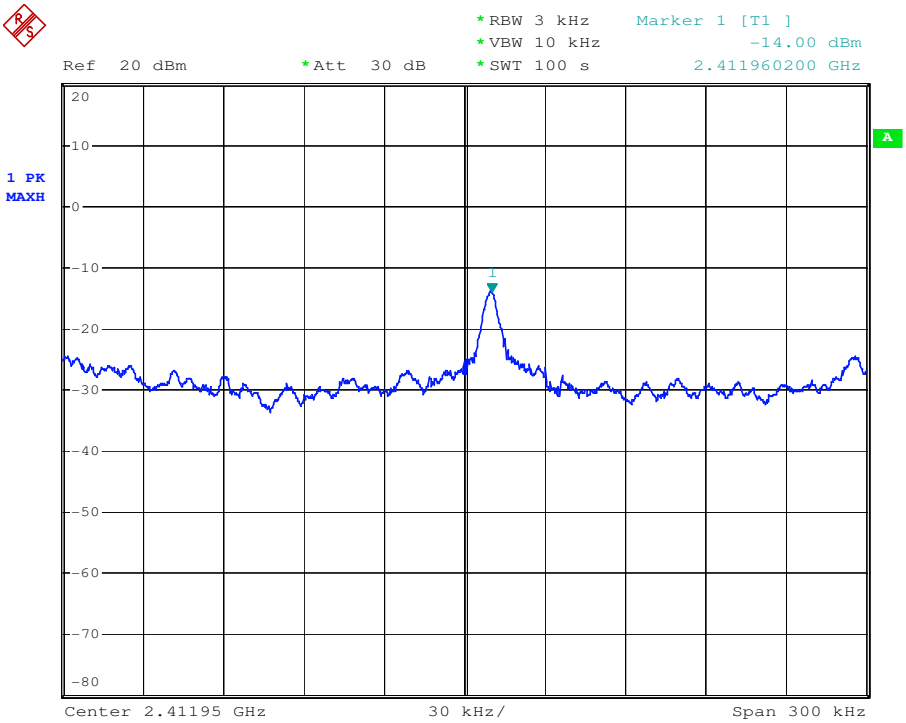
Test mode: 802.11b **Channel: Highest**



Test mode: 802.11g **Channel: Lowest**



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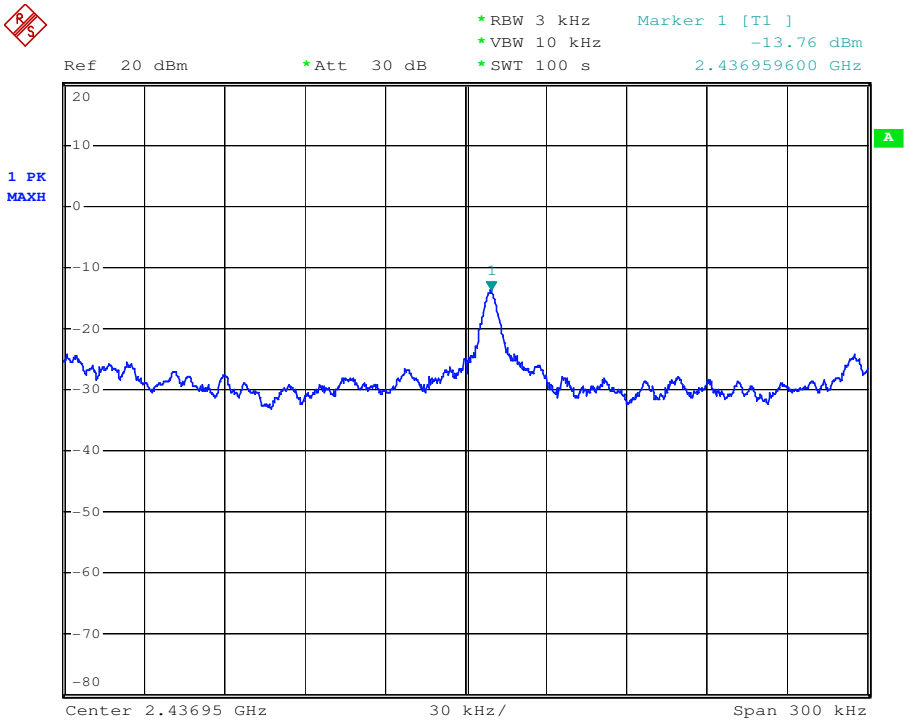
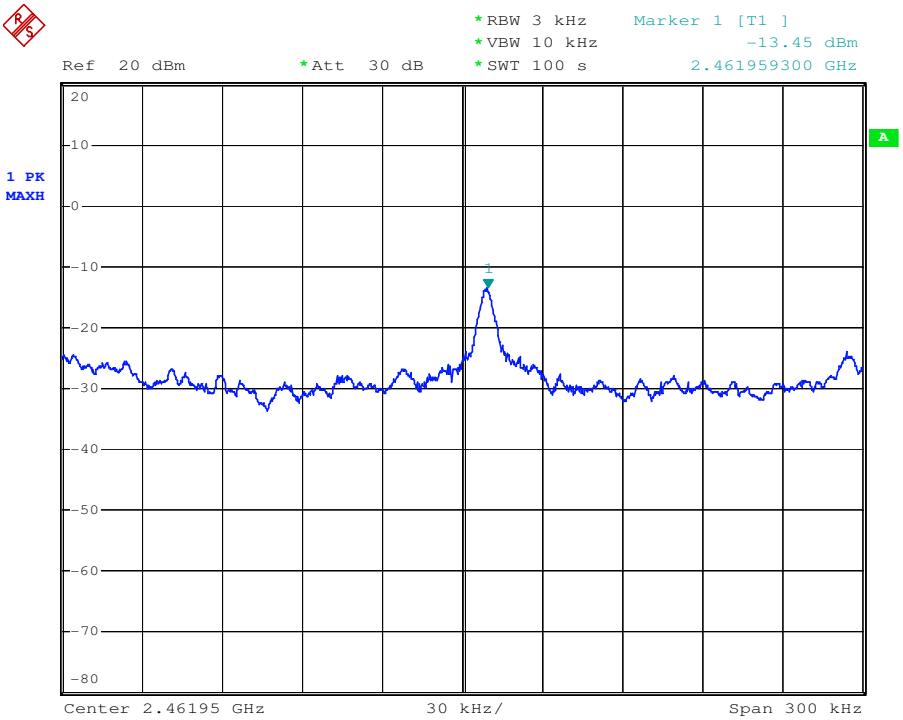
Test mode: 802.11g **Channel: Middle**



Test mode: 802.11g **Channel: Highest**



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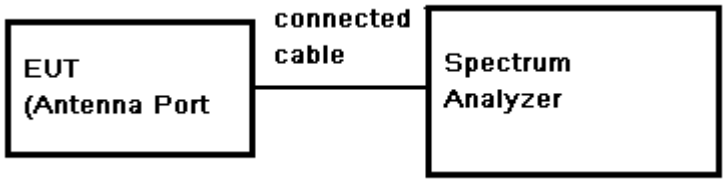
7.7 Conducted Spurious Emissions and Band-edge

Test Configuration:



Test Procedure: 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 100KHz. VBW >= RBW. Sweep = auto; Detector Function = Peak (Max. hold).

Limit: (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.

Test Result: Pass

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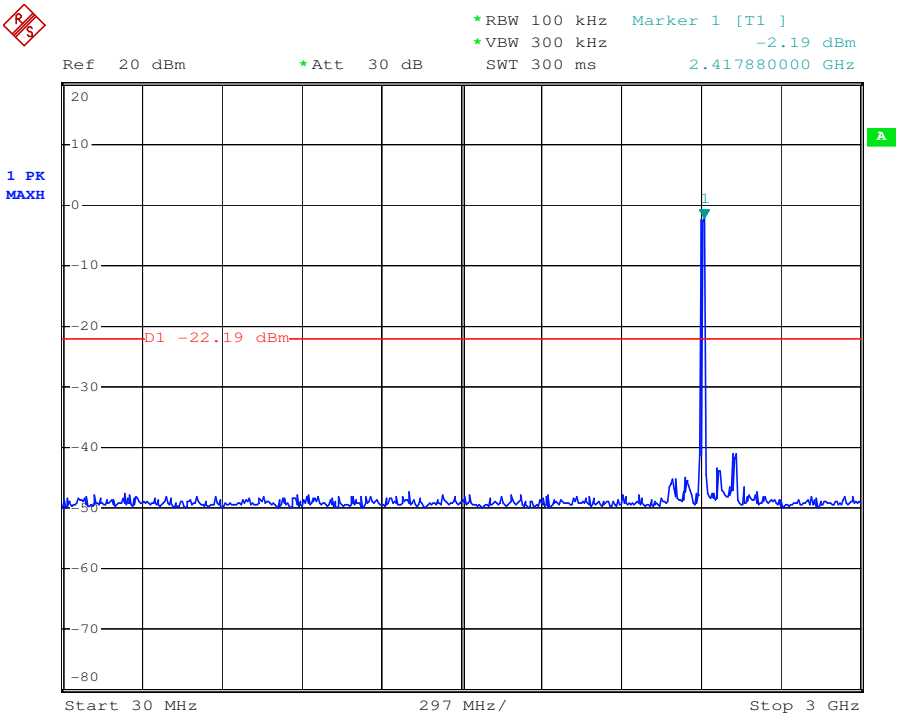
7.7.1 Conducted spurious emission

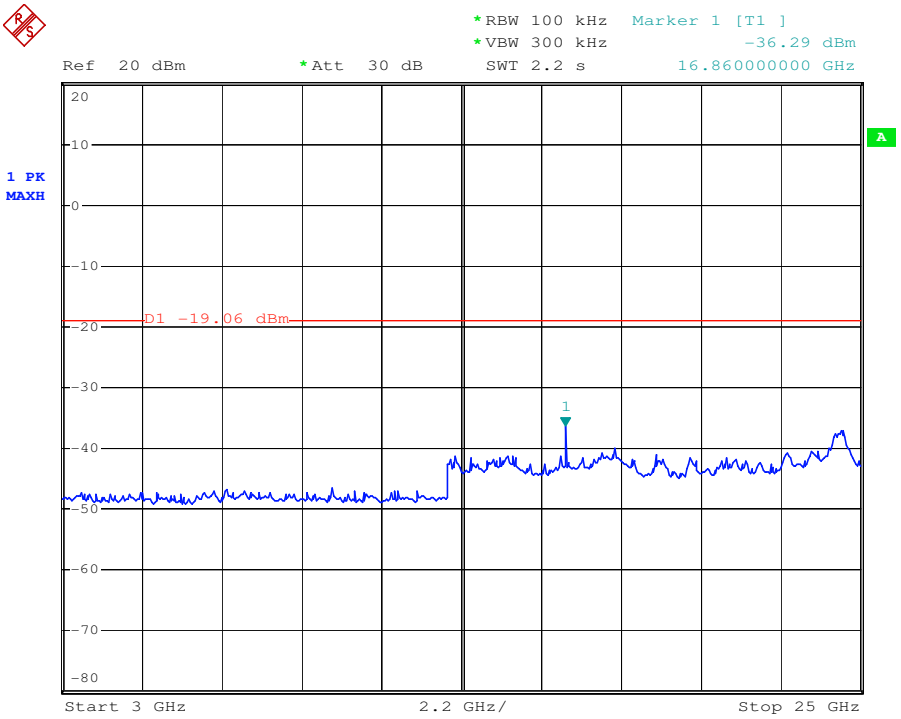
Test plot as follows:
Antenna A:

Test mode: 802.11b **Channel: Lowest**

30MHz-3GHz:



3GHz-25GHz:



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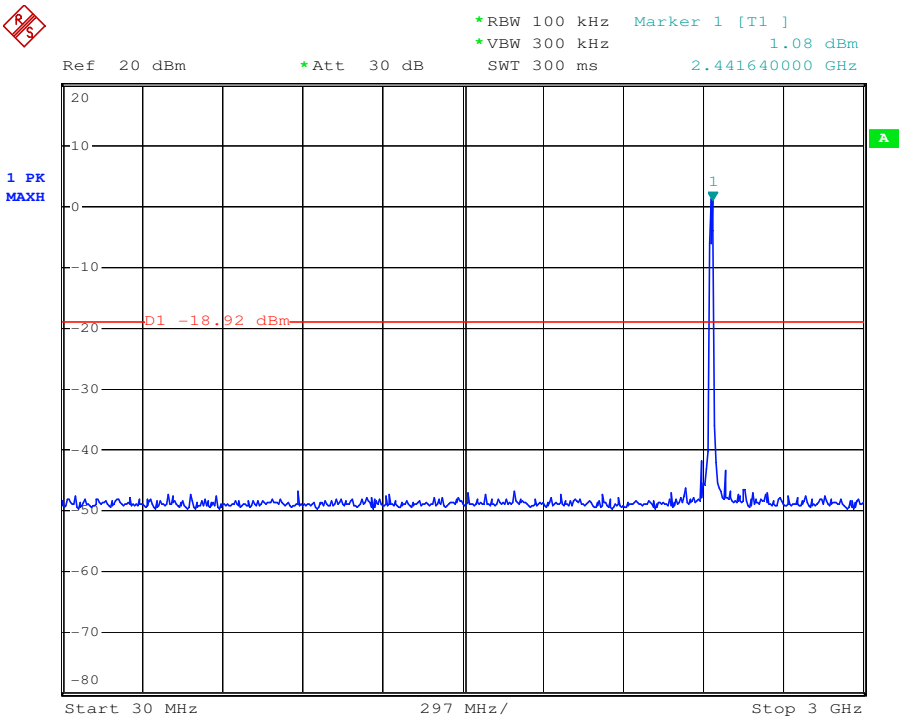
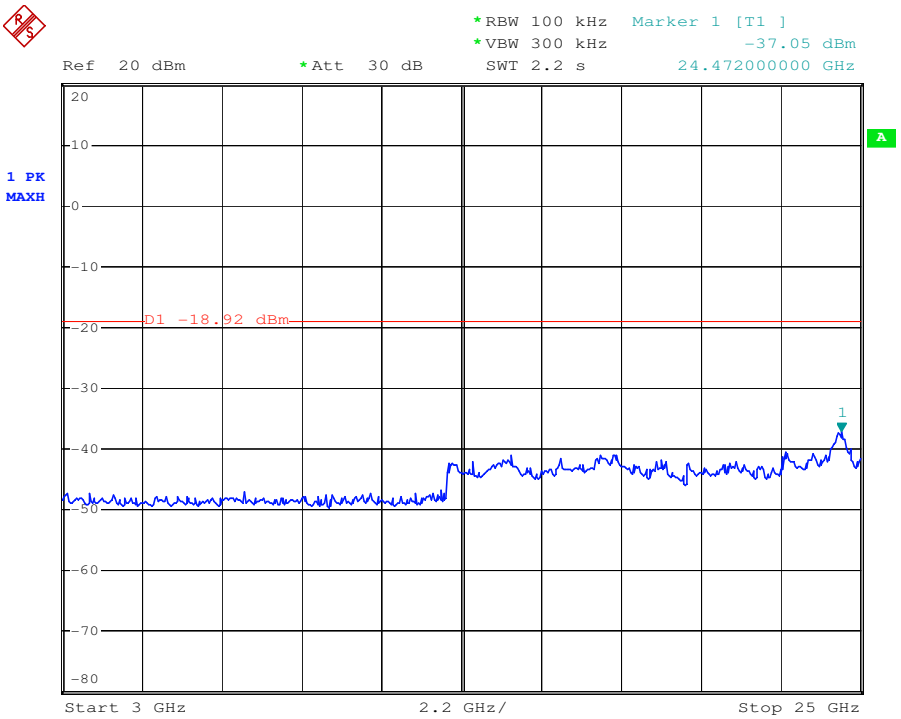
Test mode: 802.11b **Channel: Middle**

30MHz-3GHz:



3GHz-25GHz:



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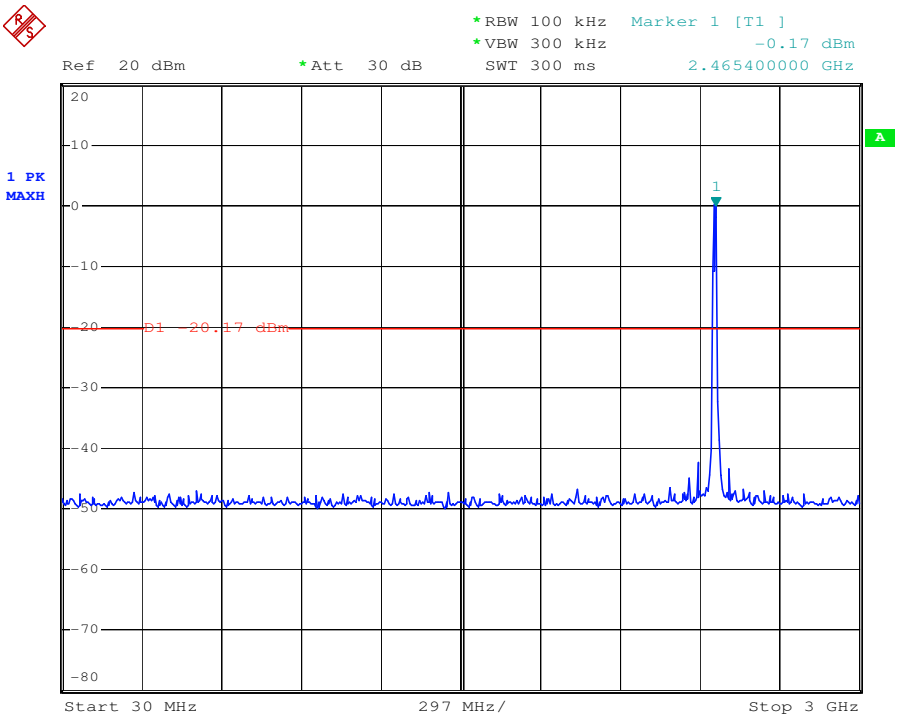
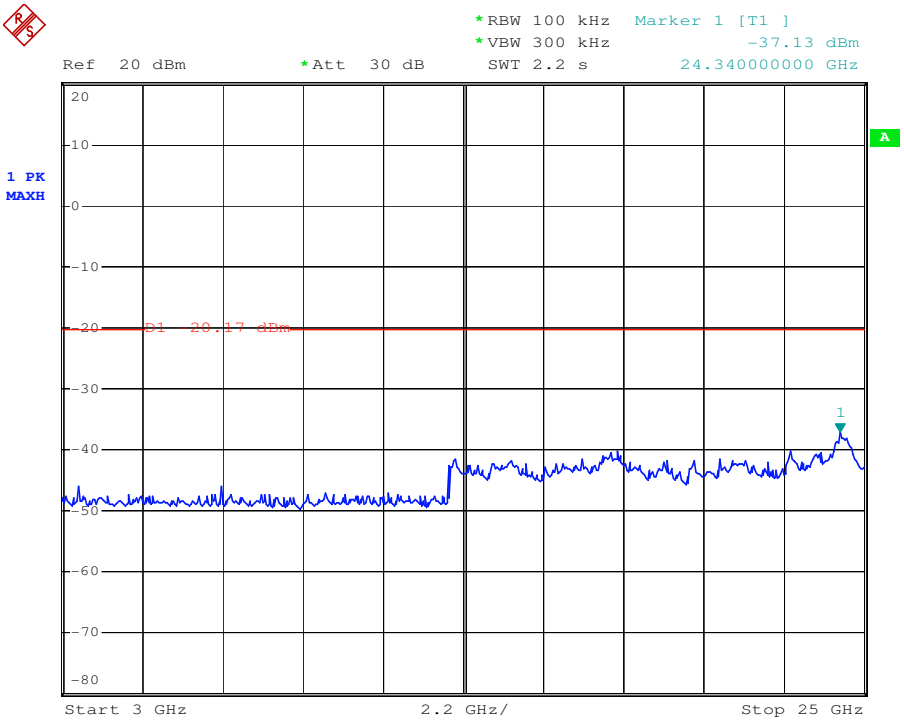
Test mode: 802.11b **Channel: Highest**

30MHz-3GHz:



3GHz-25GHz:



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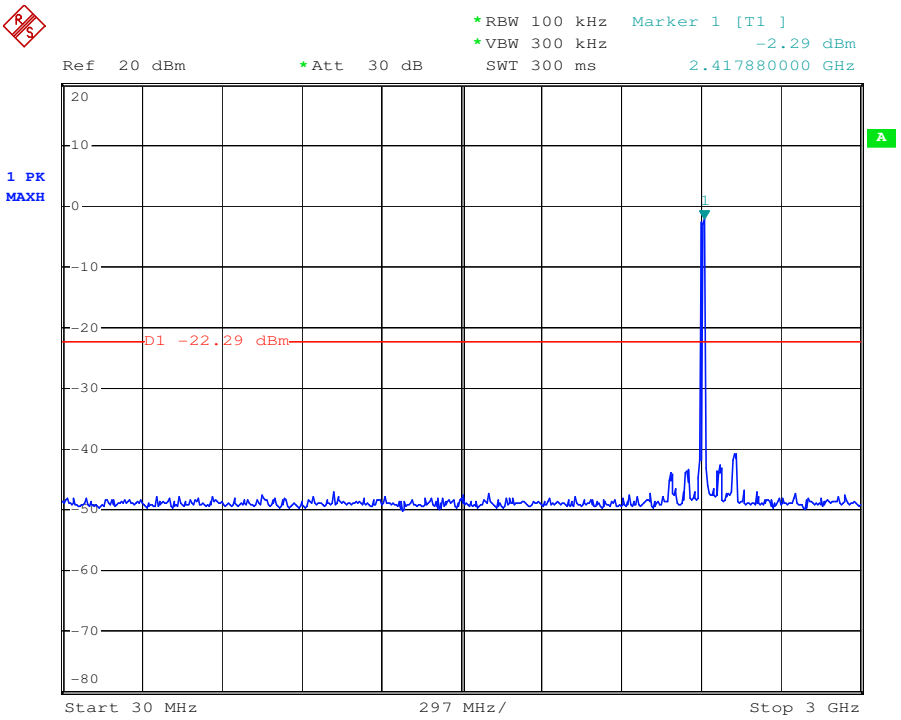
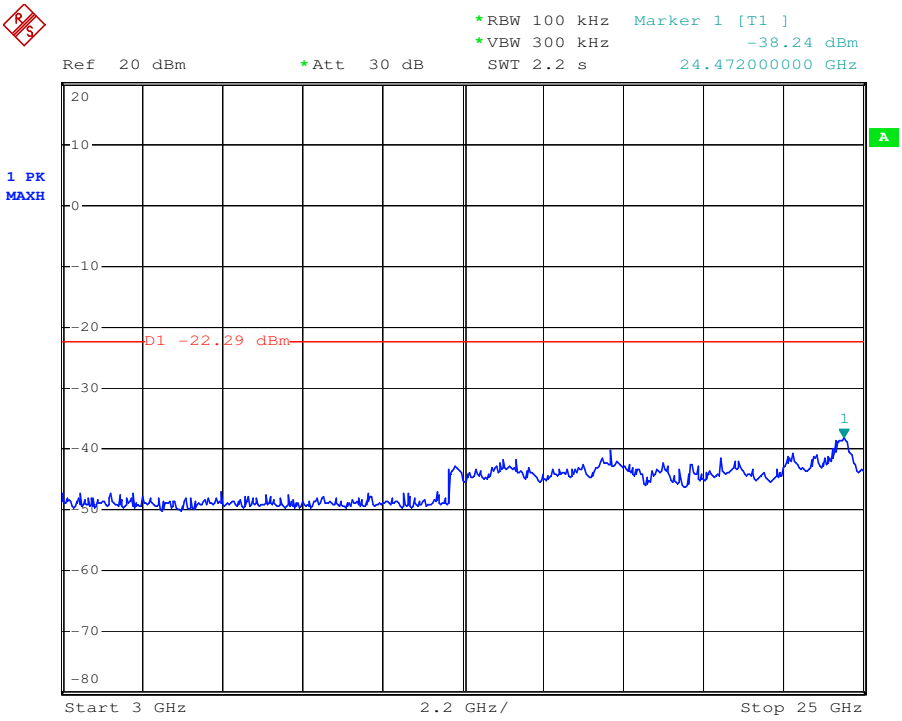
Test mode: 802.11g **Channel: Lowest**

30MHz-3GHz:



3GHz-25GHz:



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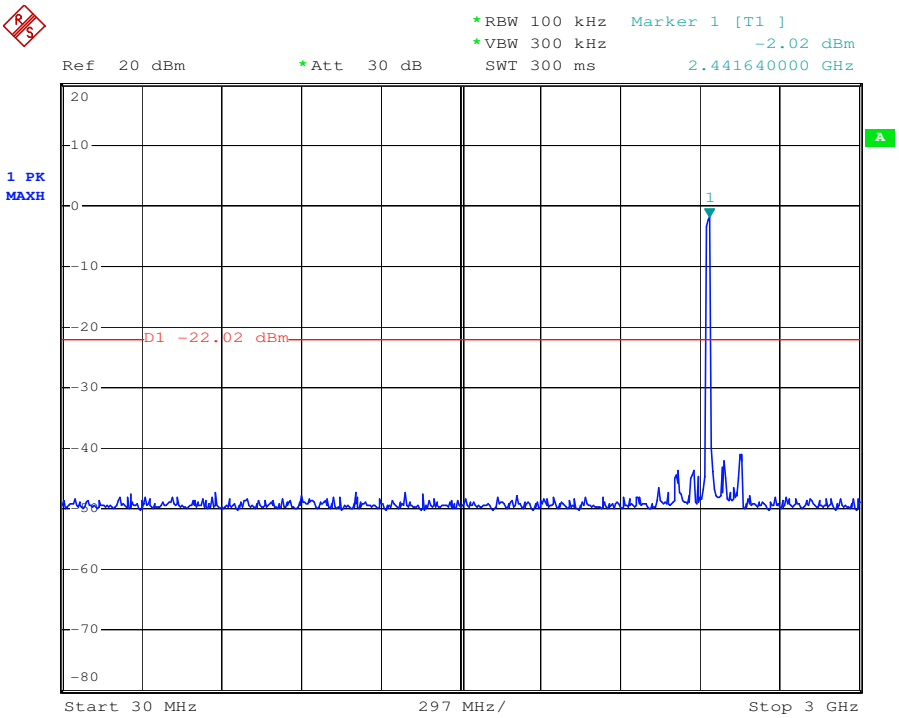
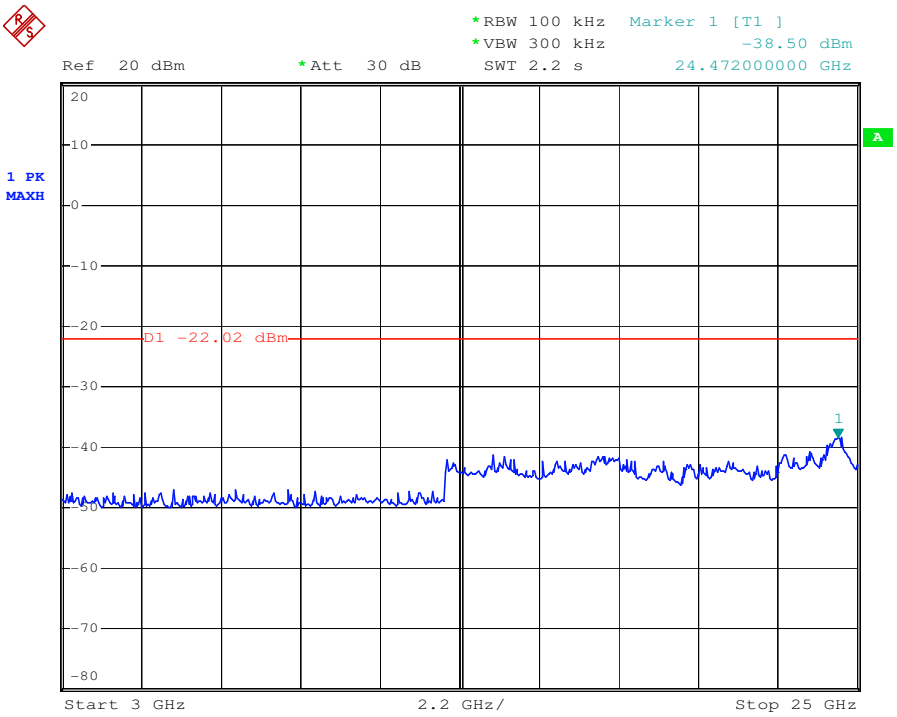
Test mode: 802.11g **Channel: Middle**

30MHz-3GHz:



3GHz-25GHz:



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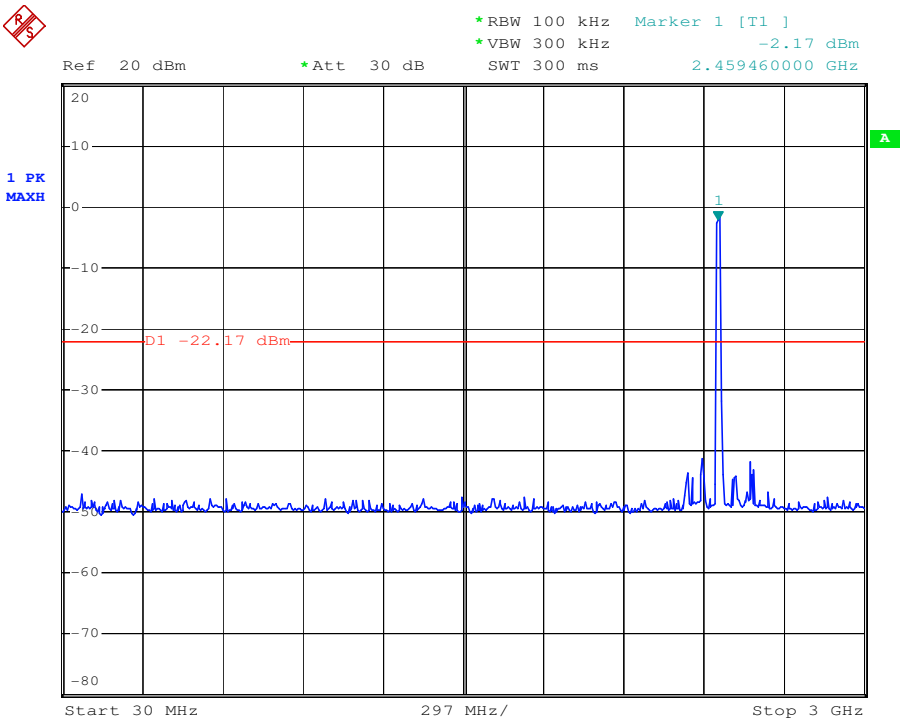
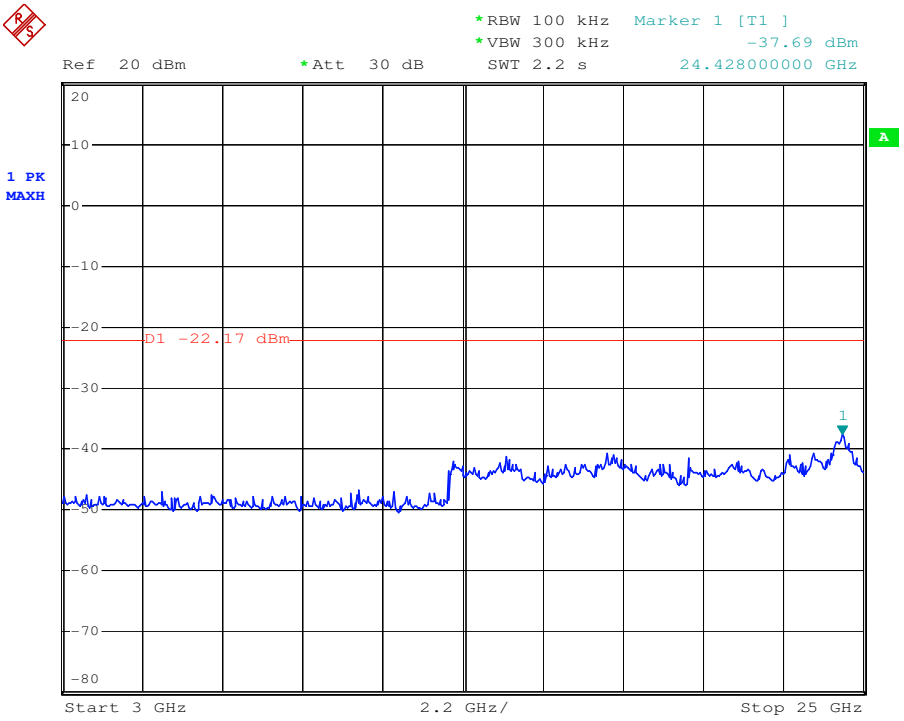
Test mode: 802.11g **Channel: Highest**

30MHz-3GHz:



3GHz-25GHz:



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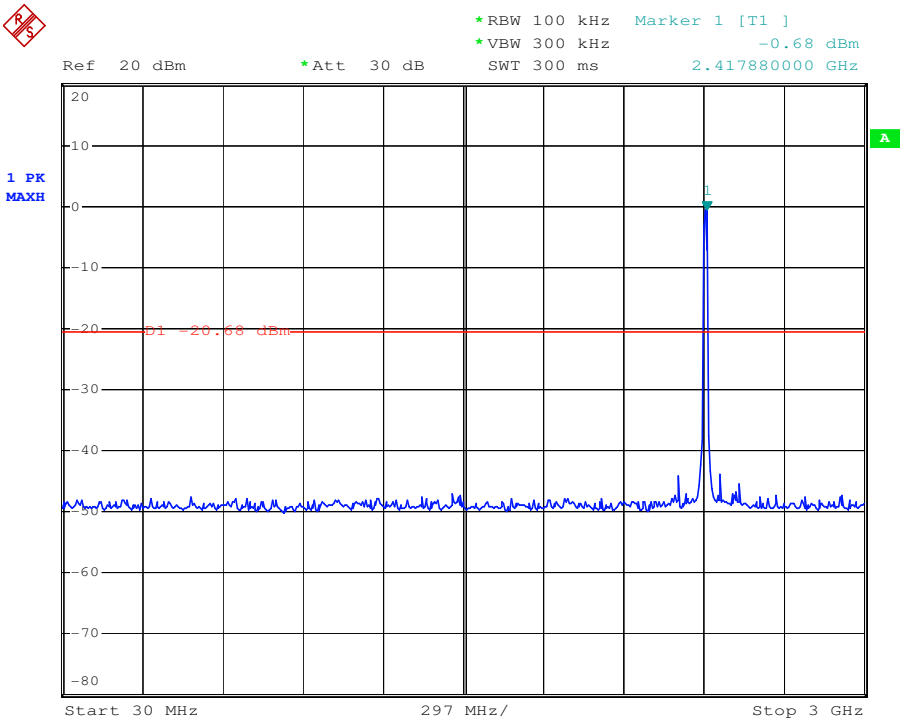
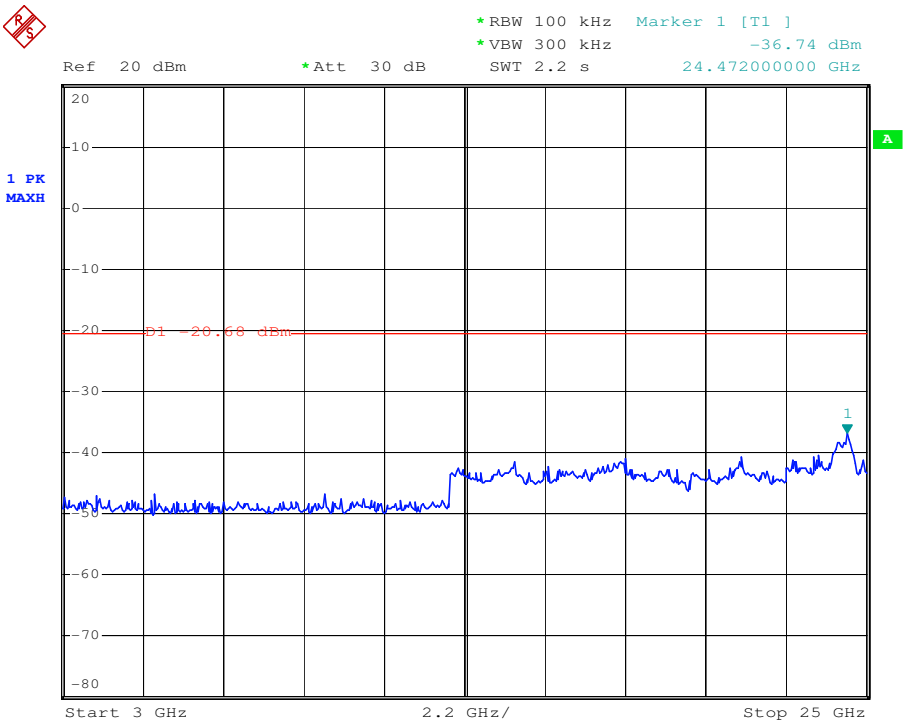
Antenna B:

Test mode: 802.11b **Channel: Lowest**

30MHz-3GHz:



3GHz-25GHz:



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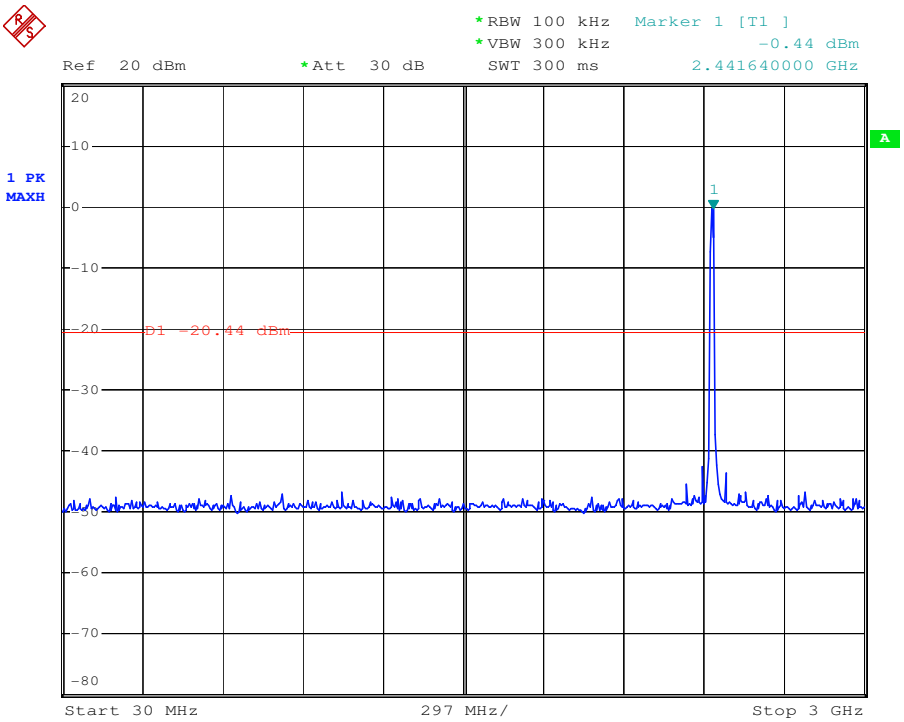
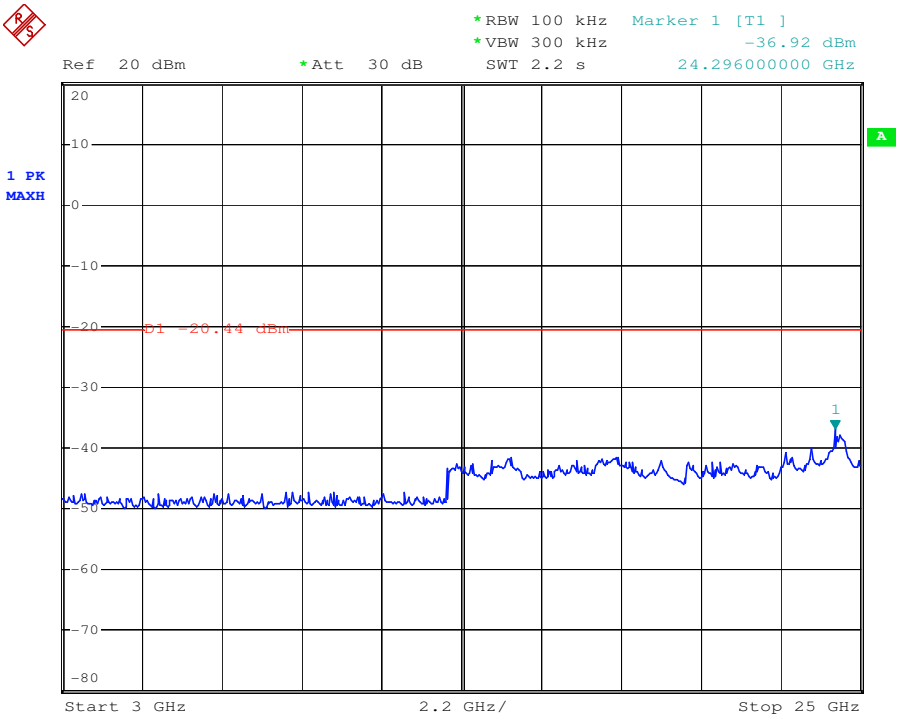
Test mode: 802.11b **Channel: Middle**

30MHz-3GHz:



3GHz-25GHz:



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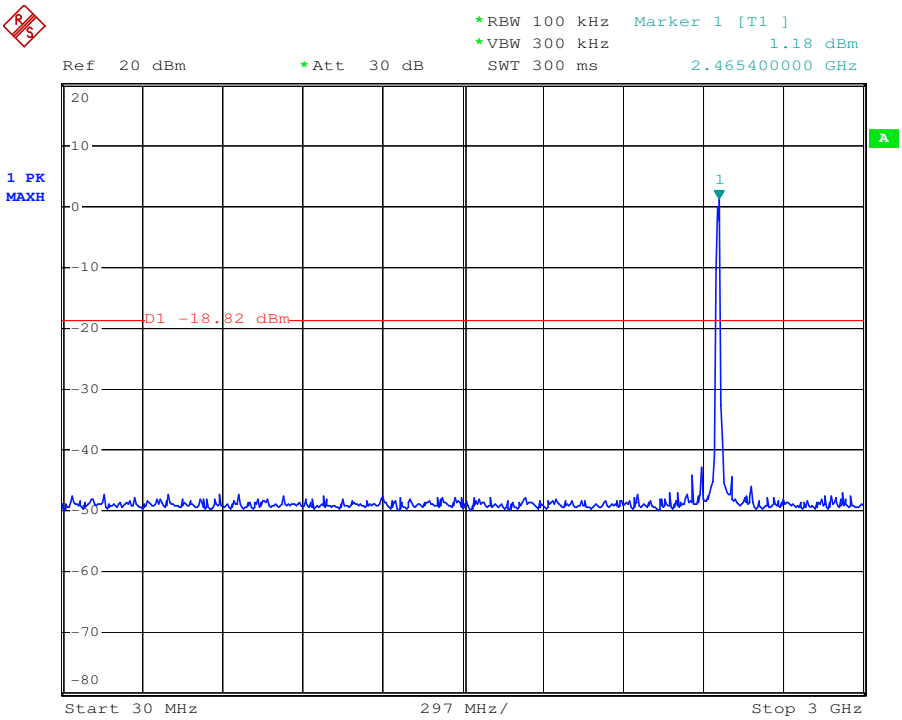
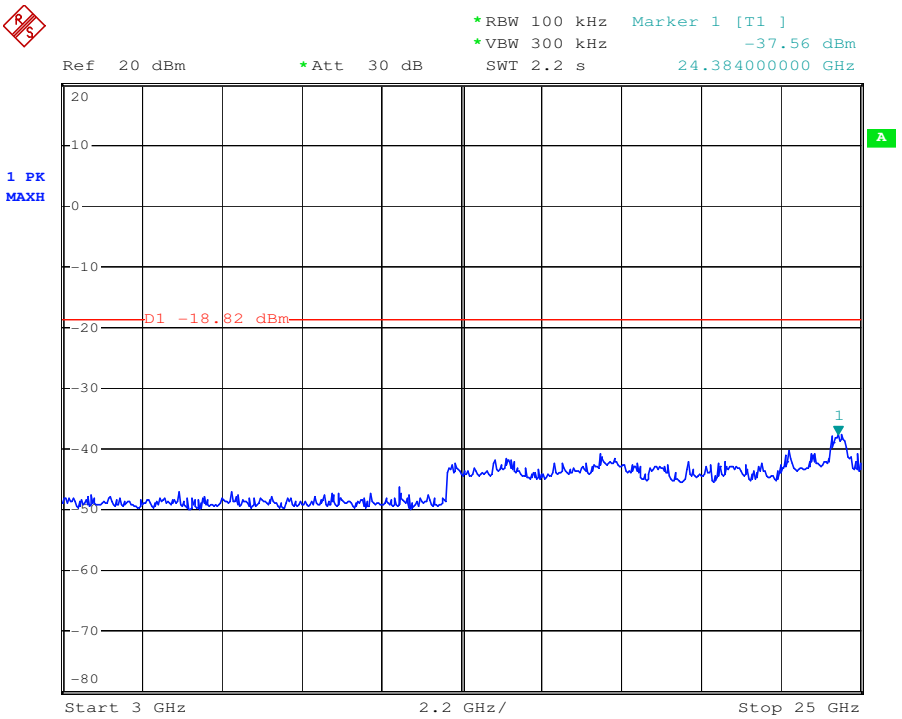
Test mode: 802.11b **Channel: Highest**

30MHz-3GHz:



3GHz-25GHz:



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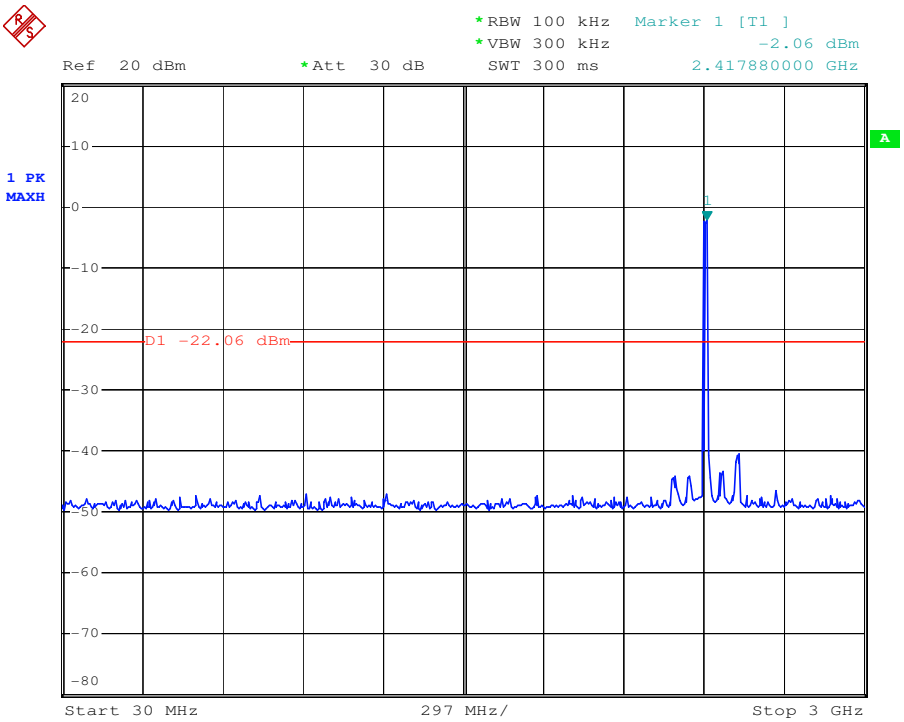
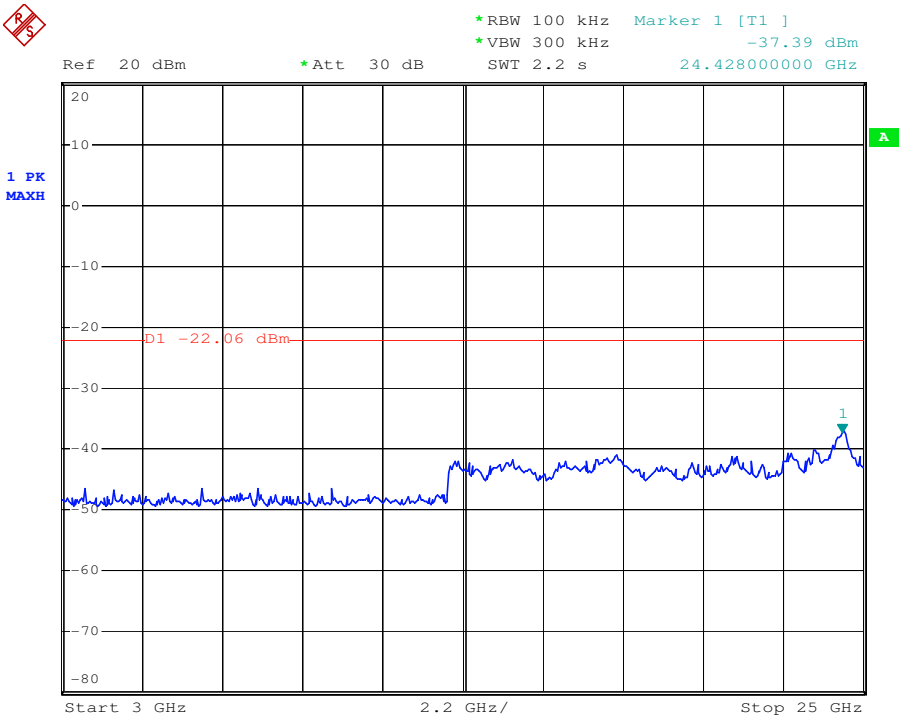
Test mode: 802.11g **Channel: Lowest**

30MHz-3GHz:



3GHz-25GHz:



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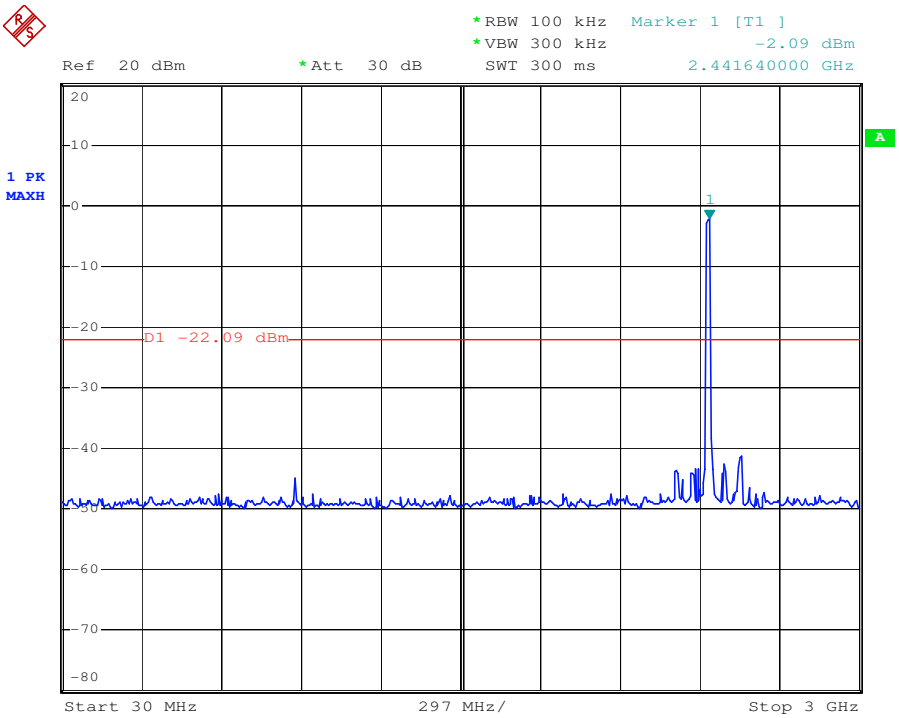
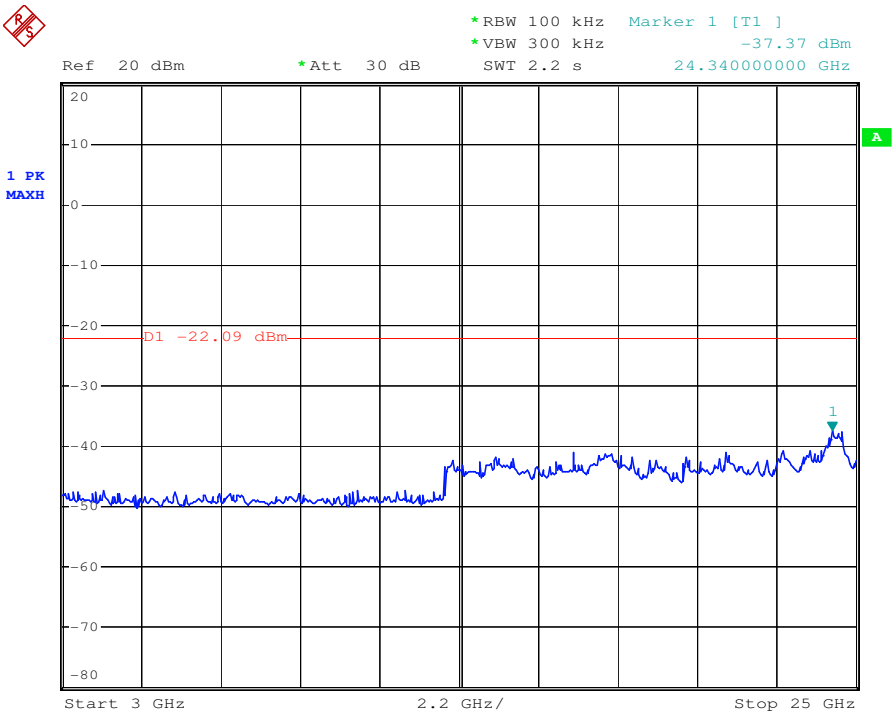
Test mode: 802.11g **Channel: Middle**

30MHz-3GHz:



3GHz-25GHz:



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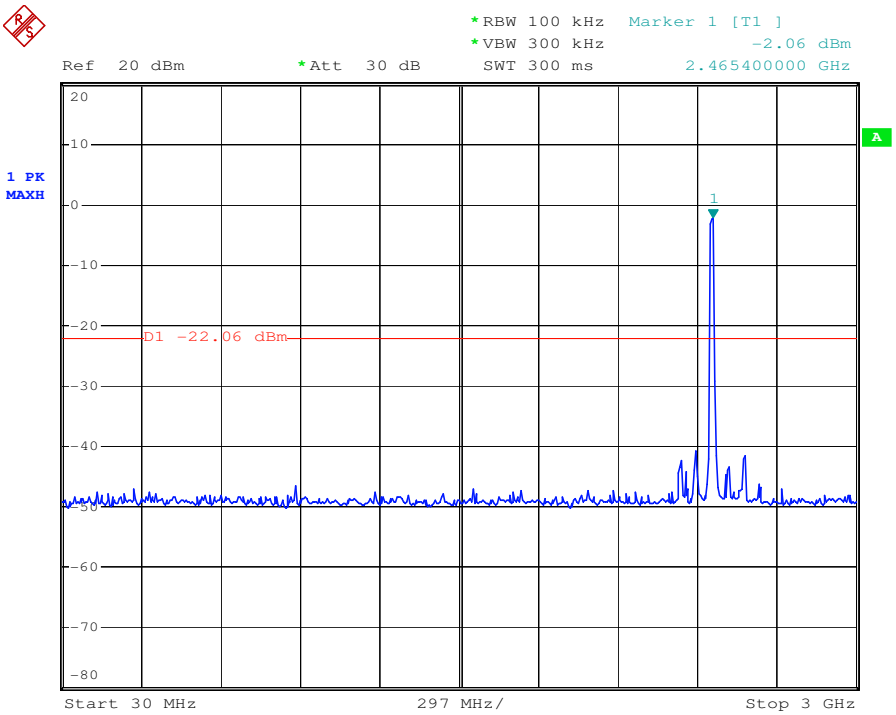
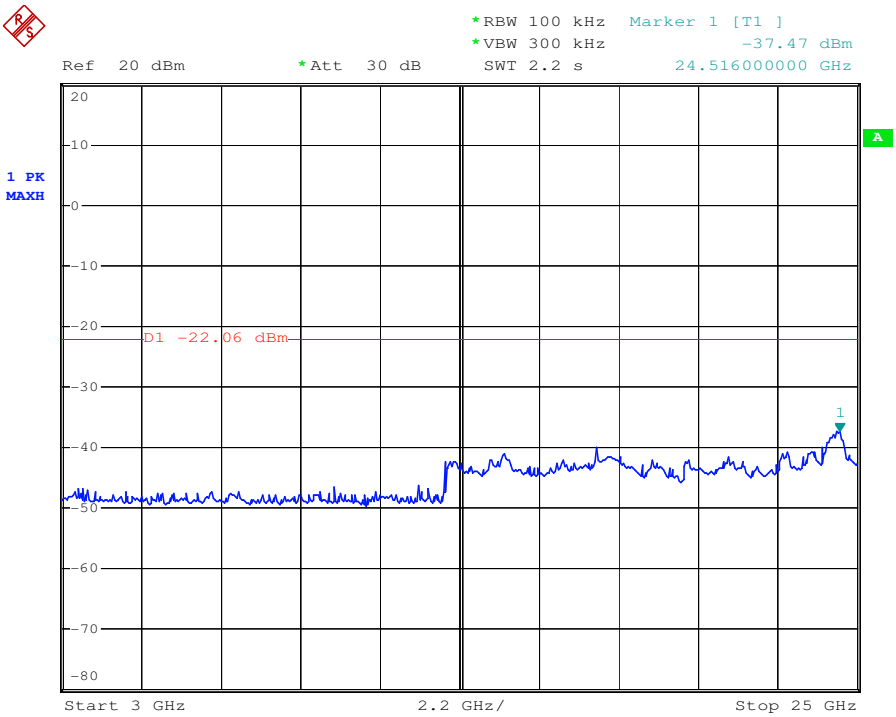
Test mode: 802.11g **Channel: Highest**

30MHz-3GHz:



3GHz-25GHz:



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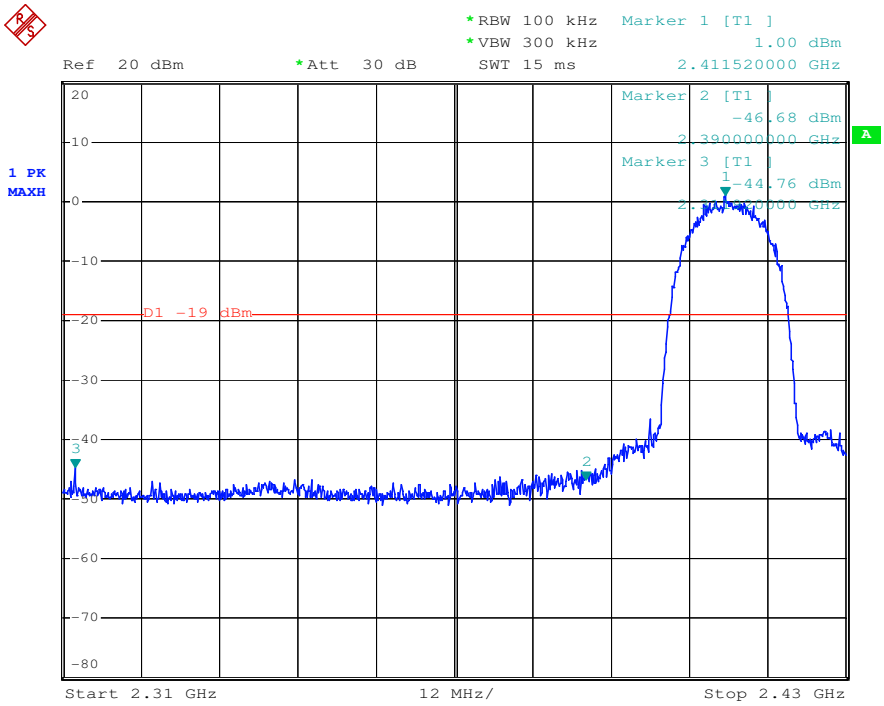
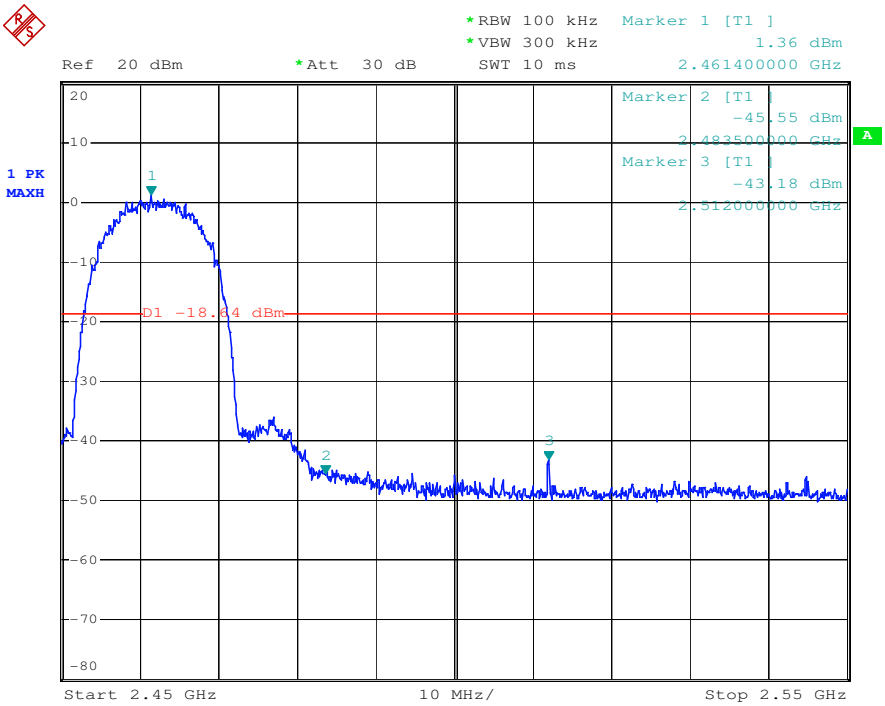
7.7.2 Conducted Band-edge

Test plot as follows:
Antenna A:

Test mode: 802.11b **Channel: Lowest**



Test mode: 802.11b **Channel: Highest**



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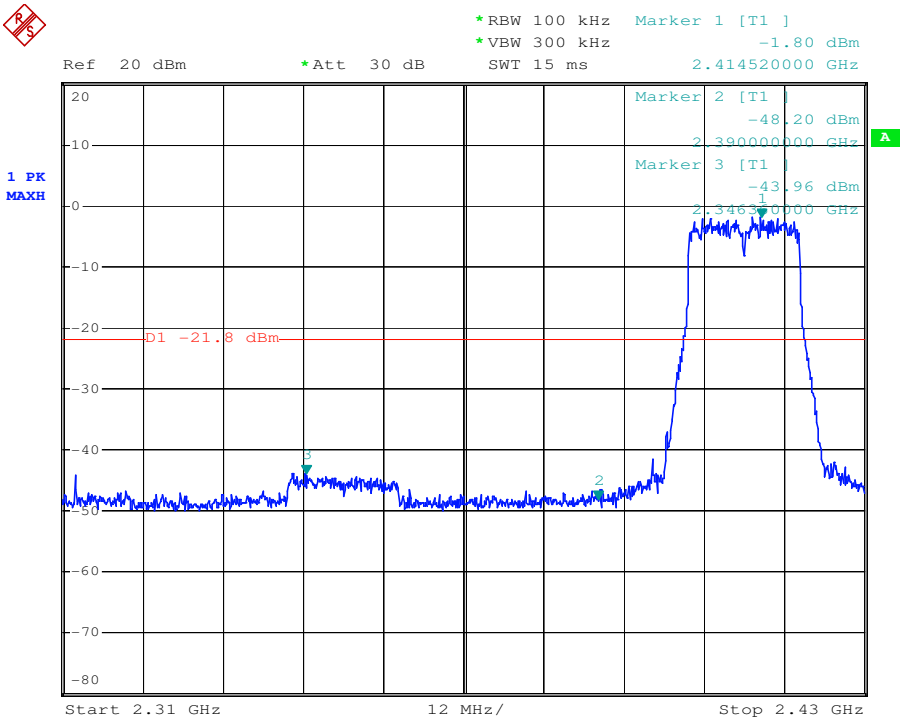
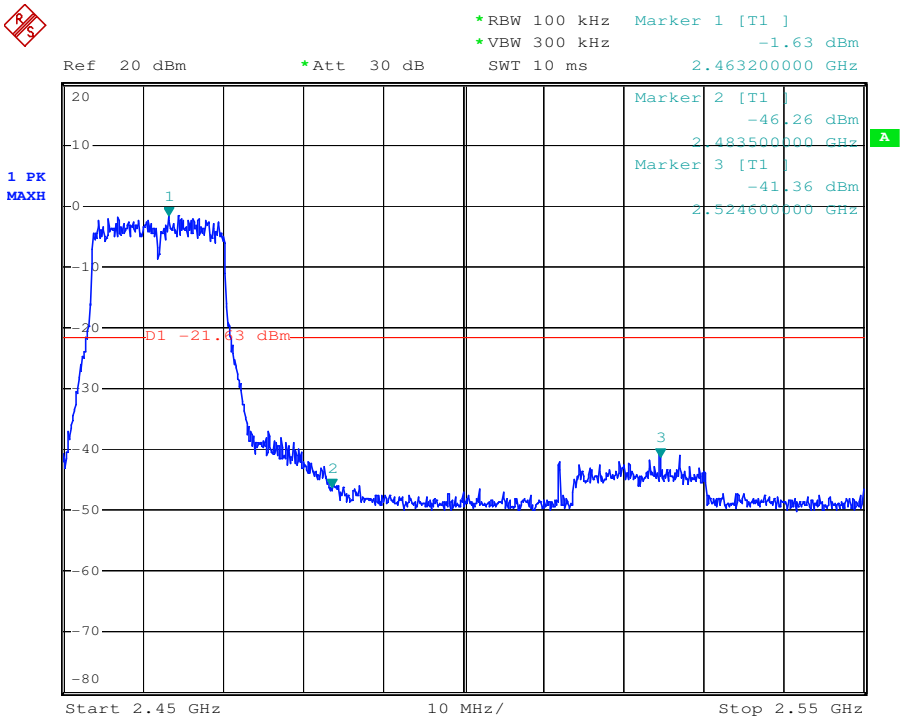
Test mode: 802.11g **Channel: Lowest**



Test mode: 802.11g **Channel: Highest**



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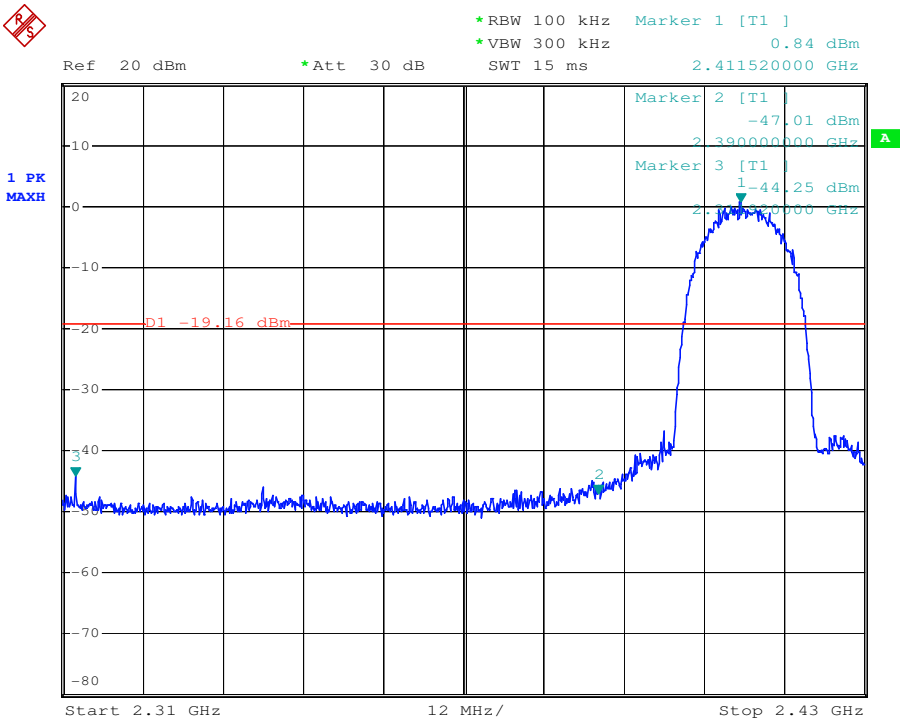
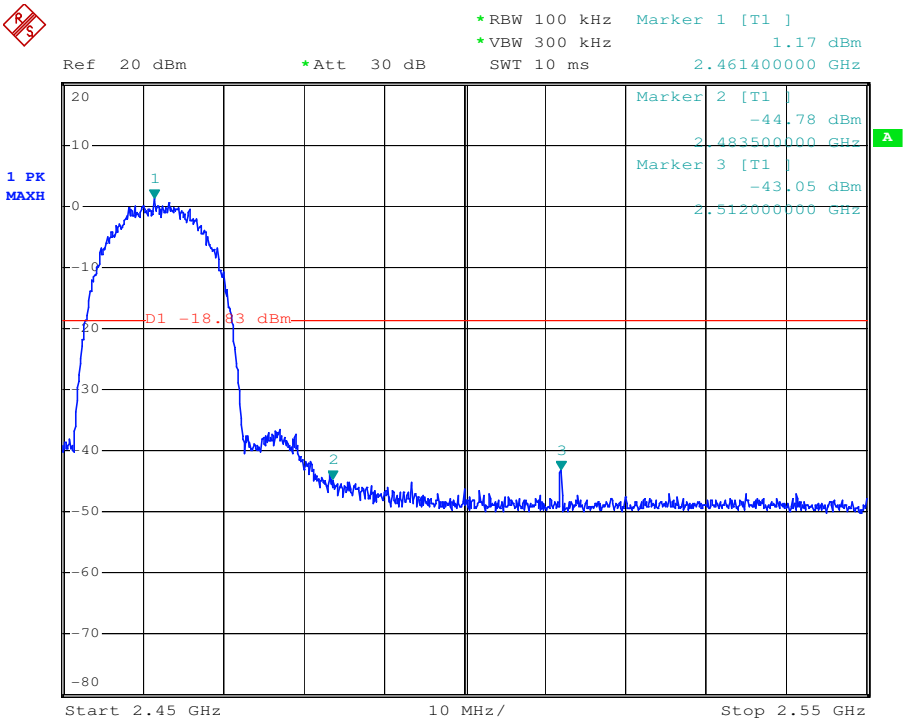
Antenna B:

Test mode: 802.11b **Channel: Lowest**



Test mode: 802.11b **Channel: Highest**



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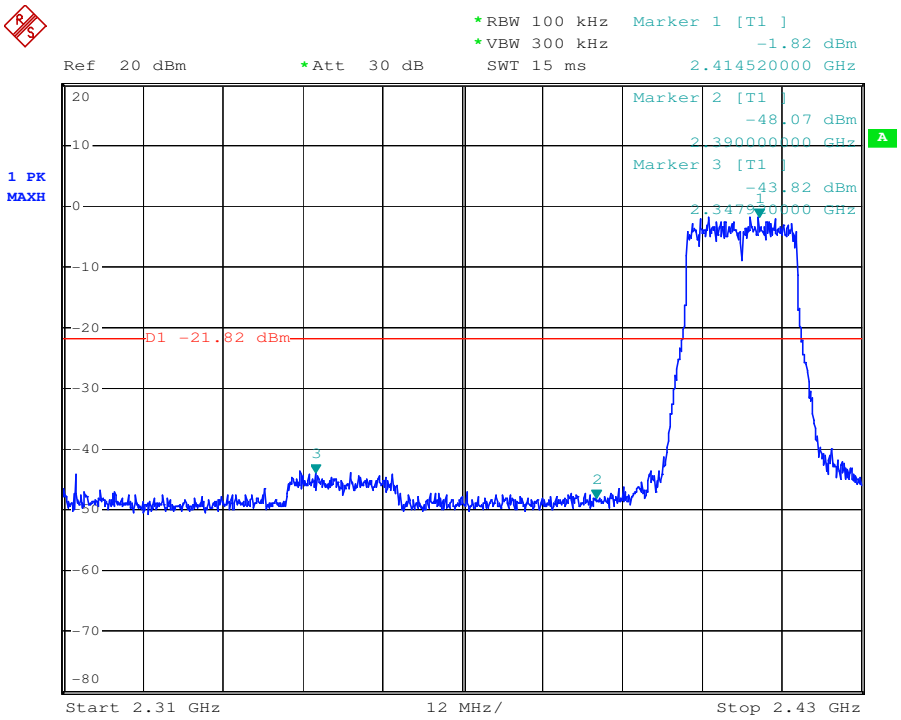
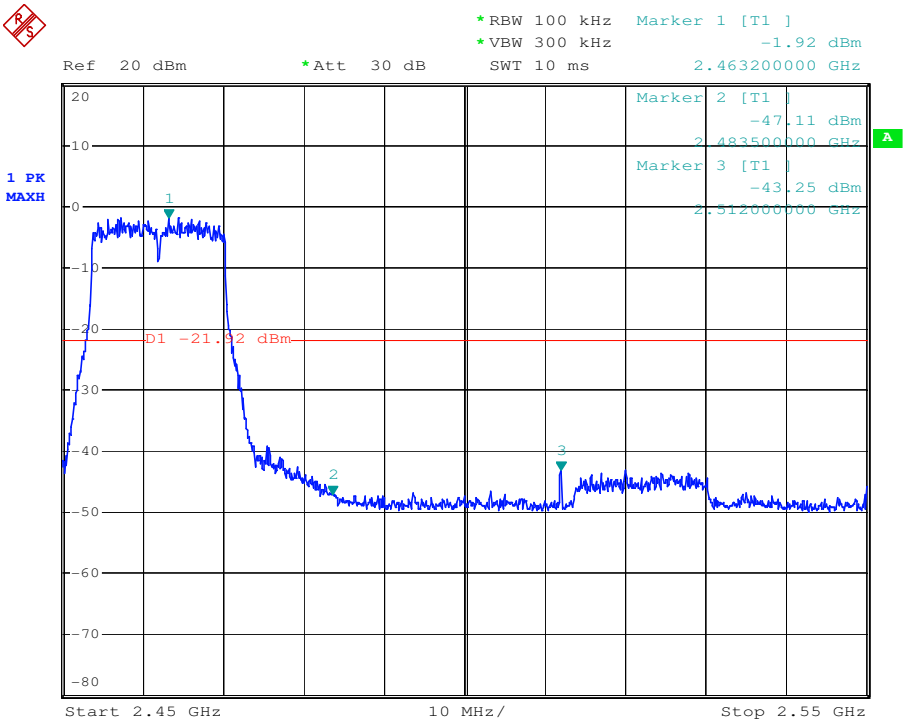
Test mode: 802.11g **Channel: Lowest**



Test mode: 802.11g **Channel: Highest**



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7.8 Radiated Spurious Emissions and Band-edge

Frequency Range: 9KHz to 25GHz

Test site/setup: Measurement Distance: 3m (Semi-Anechoic Chamber)
Test instrumentation set-up:

Frequency Range	Detector	RBW	VBW
0.009MHz-0.090MHz	Peak	10kHz	30kHz
0.009MHz-0.090MHz	Average	10kHz	30kHz
0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz
0.110MHz-0.490MHz	Peak	10kHz	30kHz
0.110MHz-0.490MHz	Average	10kHz	30kHz
0.490MHz -30MHz	Quasi-peak	10kHz	30kHz
30MHz-1GHz	Quasi-peak	100kHz	300kHz
Above 1GHz	Peak	RBW=1MHz	VBW≥RBW
	Average		VBW=10Hz

Sweep=Auto

15.209 Limit:

Frequency	Limit (dBuV/m)
0.009MHz-0.490MHz	128.5 ~ 93.8
0.490MHz-1.705MHz	73.8 ~63.0
1.705MHz-30MHz	69.5
30MHz-88MHz	40.0
88MHz-216MHz	43.5
216MHz-960MHz	46.0
960MHz-1GHz	54.0
Above 1GHz	54.0

Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

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Test Configuration:

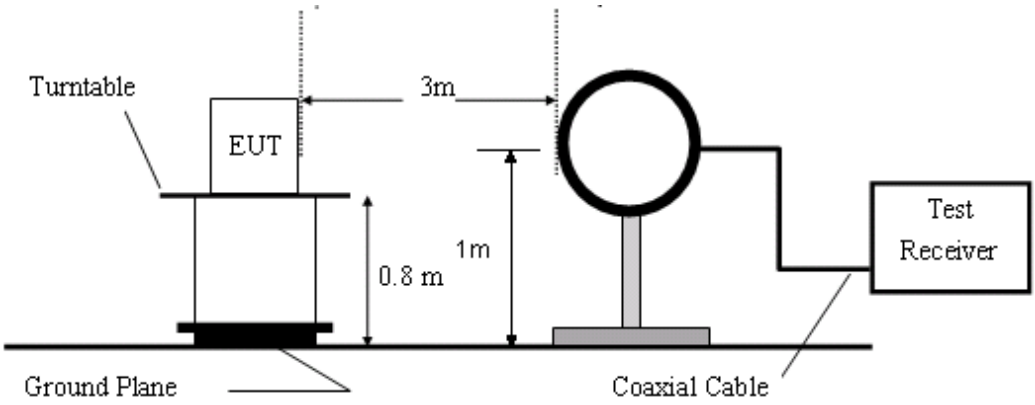

Figure1. Below 30MHz radiated emissions test configuration

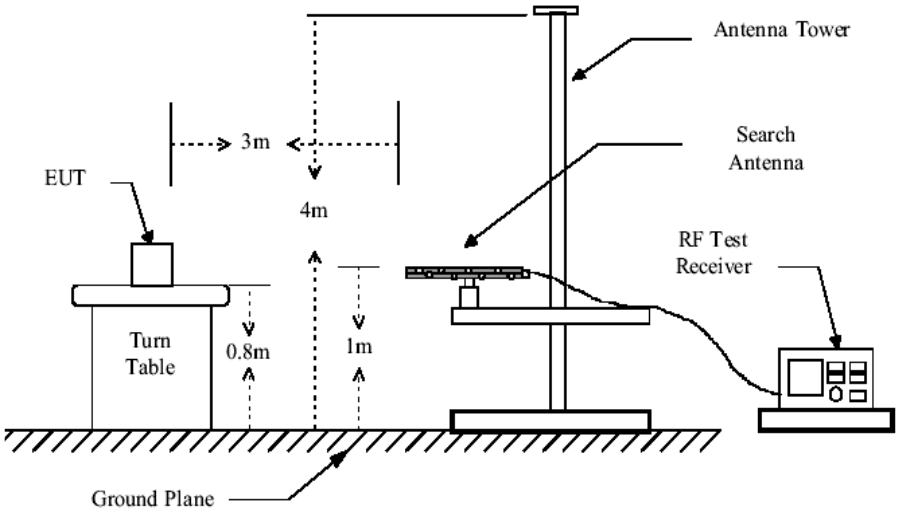

Figure2. 30MHz to 1GHz radiated emissions test configuration

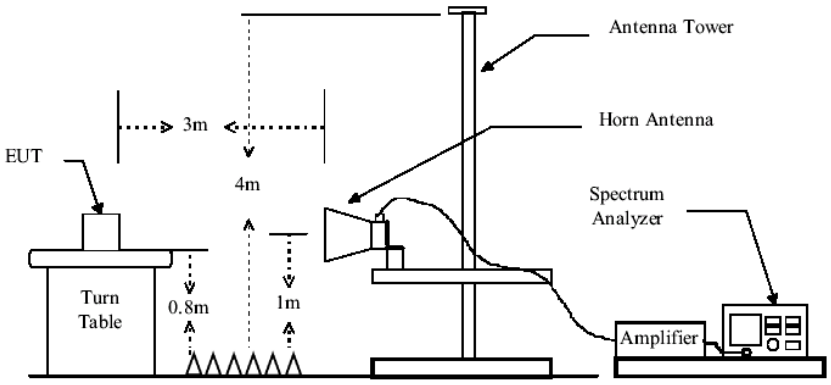

Figure3. Above 1GHz radiated emissions test configuration

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Test Procedure: The procedure used was ANSI Standard C63.10:2009. The receiver was scanned from 9KHz to 25GHz.When an emission was found, the table was rotated to produce the maximum signal strength. An initial pre-scan was performed for in peak detection mode using the receiver. The EUT was measured for both the Horizontal and Vertical polarities and performed a pre-test three orthogonal planes. For intentional radiators, measurements of the variation of the input power or the radiated signal level of the fundamental frequency component of the emission, as appropriate, shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage. The worst case emissions were reported.

Low noise amplifier was used below 1GHz, High pass Filter was used above 3GHz.

Between 1G and 3GHz, we did not use any amplifier or filter.

Pre-test was performed on Antenna A and Antenna B mode, Compliance test was performed on worse case (Antenna A mode).

Test were performed for their spatial orthogonal(X, Y, Z), the worst test data (X orthogonal) was submitted.

1) For this intentional radiator operates below 25 GHz. the spectrum shall be investigated to the tenth harmonic of the highest fundamental frequency. And above the third harmonic of this intentional radiator, the disturbance is very low. So the test result only displays to 5rd harmonic.
2) As shown in Section, for frequencies above 1000MHz. the above field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

The test only perform the EUT in transmitting status since the test frequencies were over 1GHz only required transmitting status.

Test Result: Pass

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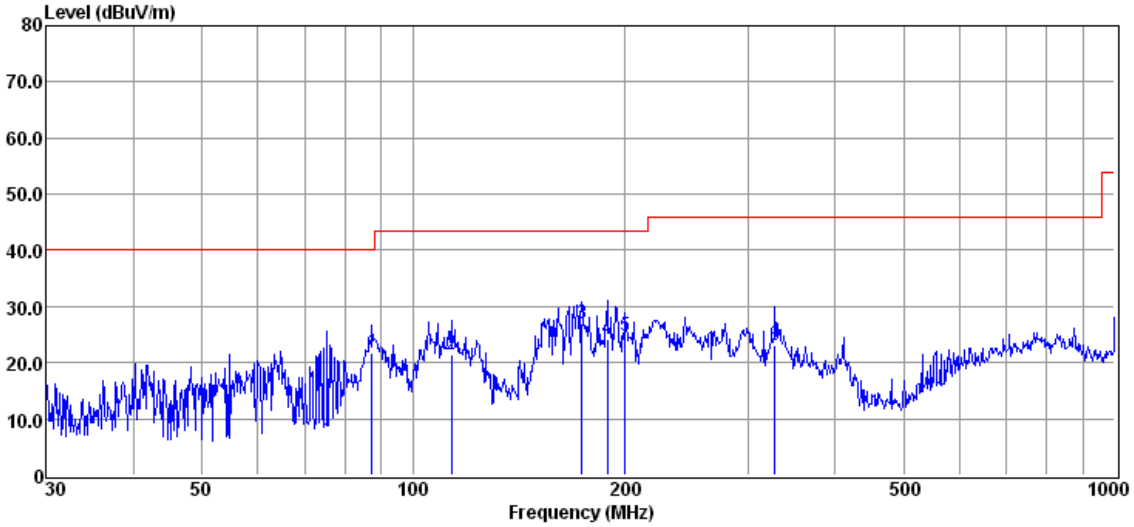
7.8.1 Radiated Spurious Emissions:

30MHz-1GHz:

Vertical:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	87.418	36.20	8.45	23.67	0.79	21.77	40.00	-18.23	QP
2	113.316	33.50	10.73	23.65	1.00	21.58	43.50	-21.92	QP
3	173.814	37.01	12.16	23.63	1.31	26.85	43.50	-16.65	QP
4	189.074	34.93	11.51	23.62	1.36	24.18	43.50	-19.32	QP
5	200.688	37.72	9.28	23.62	1.40	24.78	43.50	-18.72	QP
6	327.887	31.62	13.11	23.68	1.92	22.97	46.00	-23.03	QP

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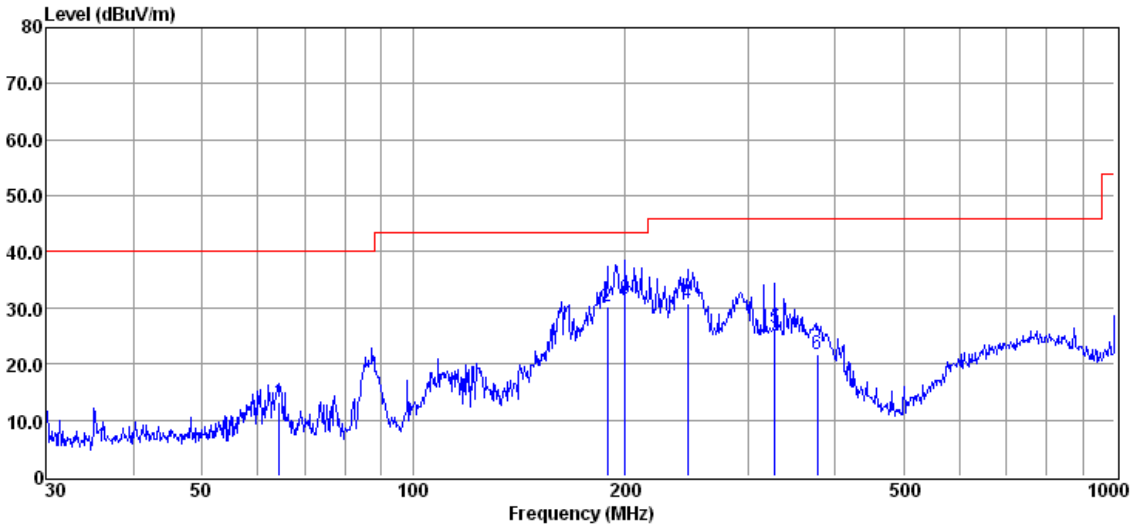
Horizontal:



Item	Freq.	Read Level	Antenna Factor	Preamp Factor	Cable Loss	Result Level	Limit Line	Over Limit	Detector
(Mark)	(MHz)	(dBµV)	(dB/m)	(dB)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	
1	64.433	24.73	11.56	23.68	0.55	13.16	40.00	-26.84	QP
2	189.074	41.06	11.51	23.62	1.36	30.31	43.50	-13.19	QP
3	200.688	44.48	9.28	23.62	1.40	31.54	43.50	-11.96	QP
4	245.951	42.72	10.22	23.65	1.55	30.84	46.00	-15.16	QP
5	327.887	34.97	13.11	23.68	1.92	26.32	46.00	-19.68	QP
6	377.259	29.28	14.12	23.70	2.10	21.80	46.00	-24.20	QP

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Above 1GHz:

Antenna A **Test mode: 802.11b** **Channel: lowest**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4829.60	42.80	5.80	48.66	54	-5.34	peak	Horizontal
2	7226.70	43.19	9.60	52.82	54	-1.18	peak	Horizontal
3	9625.10	42.37	13.50	53.84	54	-0.16	peak	Horizontal
4	4829.50	42.78	5.80	48.57	54	-5.43	peak	Vertical
5	7227.10	42.11	9.60	51.78	54	-2.22	peak	Vertical
6	9624.70	41.68	13.50	53.21	54	-0.79	peak	Vertical

Antenna A **Test mode: 802.11b** **Channel: Middle**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4865.75	43.04	6.03	49.13	54	-4.87	peak	Horizontal
2	7333.25	43.69	9.83	53.53	54	-0.47	peak	Horizontal
3	9730.25	43.59	13.53	53.17	54	-0.83	peak	Horizontal
4	4865.75	42.52	6.03	48.57	54	-5.43	peak	Vertical
5	7333.25	42.83	9.83	52.64	54	-1.36	peak	Vertical
6	9730.25	41.43	13.53	53.12	54	-0.88	peak	Vertical

Antenna A **Test mode: 802.11b** **Channel: Highest**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4912.75	43.97	6.23	50.23	54	-3.77	peak	Horizontal
2	7380.25	44.93	9.98	51.94	54	-2.06	peak	Horizontal
3	9859.25	43.43	13.6	52.06	54	-1.94	peak	Horizontal
4	4912.73	42.91	6.23	49.14	54	-4.86	peak	Vertical
5	7380.19	44.75	9.98	52.73	54	-1.27	peak	Vertical
6	9859.25	42.74	13.6	53.34	54	-0.66	peak	Vertical

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Antenna A **Test mode: 802.11g** **Channel: lowest**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4818.75	44.61	5.74	50.34	54	-3.66	peak	Horizontal
2	7262.55	43.03	9.66	52.68	54	-1.32	peak	Horizontal
3	9659.75	42.12	13.50	53.65	54	-0.35	peak	Horizontal
4	4818.75	43.34	5.74	49.13	54	-4.87	peak	Vertical
5	7262.55	42.21	9.66	51.85	54	-2.15	peak	Vertical
6	9659.75	42.42	13.50	52.94	54	-1.06	peak	Vertical

Antenna A **Test mode: 802.11g** **Channel: Middle**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4887.85	42.85	6.17	49.13	54	-4.87	peak	Horizontal
2	7309.55	43.26	9.76	53.04	54	-0.96	peak	Horizontal
3	9753.75	42.83	13.53	52.37	54	-1.63	peak	Horizontal
4	4887.85	42.17	6.17	48.37	54	-5.63	peak	Vertical
5	7309.55	42.84	9.76	52.62	54	-1.38	peak	Vertical
6	9753.75	42.53	13.53	52.05	54	-1.95	peak	Vertical

Antenna A **Test mode: 802.11g** **Channel: Highest**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4924.50	44.03	6.21	50.26	54	-3.74	peak	Horizontal
2	7368.50	44.64	9.93	52.64	54	-1.36	peak	Horizontal
3	9824.50	43.15	13.57	52.75	54	-1.25	peak	Horizontal
4	4924.50	43.75	6.21	49.91	54	-4.09	peak	Vertical
5	7368.50	44.42	9.93	52.34	54	-1.66	peak	Vertical
6	9824.50	43.11	13.57	53.65	54	-0.35	peak	Vertical

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Antenna B **Test mode: 802.11b** **Channel: lowest**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4842.25	40.49	5.88	46.34	54	-7.66	peak	Horizontal
2	7239.05	39.90	9.62	49.52	54	-4.48	peak	Horizontal
3	9636.22	40.80	13.51	52.30	54	-1.70	peak	Horizontal
4	4842.25	43.51	5.88	49.38	54	-2.62	peak	Vertical
5	7239.23	43.07	9.62	52.69	54	-2.31	peak	Vertical
6	9636.25	42.39	13.51	52.91	54	-1.09	peak	Vertical

Antenna B **Test mode: 802.11b** **Channel: Middle**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4877.10	41.29	6.10	47.41	54	-6.59	peak	Horizontal
2	7320.50	41.58	9.79	51.37	54	-2.63	peak	Horizontal
3	9765.50	40.24	13.54	53.78	54	-0.22	peak	Horizontal
4	4877.20	43.58	6.10	49.69	54	-4.31	peak	Vertical
5	7321.30	43.99	9.79	52.75	54	-1.25	peak	Vertical
6	9765.50	43.06	13.54	53.61	54	-0.39	peak	Vertical

Antenna B **Test mode: 802.11b** **Channel: Highest**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4935.15	41.67	6.22	47.88	54	-6.12	peak	Horizontal
2	7403.75	41.81	10.04	51.83	54	-2.17	peak	Horizontal
3	9847.50	39.96	13.59	53.51	54	-0.49	peak	Horizontal
4	4936.25	43.72	6.22	49.95	54	-4.05	peak	Vertical
5	7403.55	45.15	10.04	51.21	54	-2.79	peak	Vertical
6	9847.75	43.08	13.59	52.64	54	-1.36	peak	Vertical

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Antenna B **Test mode: 802.11g** **Channel: lowest**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4827.50	41.93	5.79	47.71	54	-6.29	peak	Horizontal
2	7245.50	42.12	9.63	51.67	54	-2.33	peak	Horizontal
3	9652.50	39.83	13.50	53.31	54	-0.69	peak	Horizontal
4	4827.50	44.16	5.79	49.95	54	-4.05	peak	Vertical
5	7245.50	43.80	9.63	53.43	54	-0.57	peak	Vertical
6	9652.50	42.42	13.50	52.92	54	-1.08	peak	Vertical

Antenna B **Test mode: 802.11g** **Channel: Middle**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4857.50	41.16	5.98	47.18	54	-6.82	peak	Horizontal
2	7291.50	39.79	9.72	49.53	54	-4.47	peak	Horizontal
3	9740.50	40.96	13.53	52.48	54	-1.52	peak	Horizontal
4	4857.50	44.90	5.98	50.85	54	-3.15	peak	Vertical
5	7292.20	43.17	9.72	52.83	54	-1.17	peak	Vertical
6	9740.40	43.27	13.53	52.78	54	-1.22	peak	Vertical

Antenna B **Test mode: 802.11g** **Channel: Highest**

Mark	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Emission (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	4942.50	41.88	6.20	48.05	54	-5.95	peak	Horizontal
2	7375.20	43.16	9.97	53.14	54	-0.86	peak	Horizontal
3	9864.20	40.67	13.6	52.24	54	-1.76	peak	Horizontal
4	4942.50	44.84	6.20	51.03	54	-2.97	peak	Vertical
5	7375.50	45.97	9.97	52.91	54	-1.09	peak	Vertical
6	9863.20	43.54	13.6	52.15	54	-1.85	peak	Vertical

Remark: 1. Test Level =Receiver Reading + Antenna Factor + Cable Loss –Preamplifier Factor.

2. No any other emissions level which are attenuated less than 20dB below the limit. According to 15.31(o), the amplitude of spurious emissions from intentional radiators and emissions from unintentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this Part. Hence there no other emissions have been reported.

3. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

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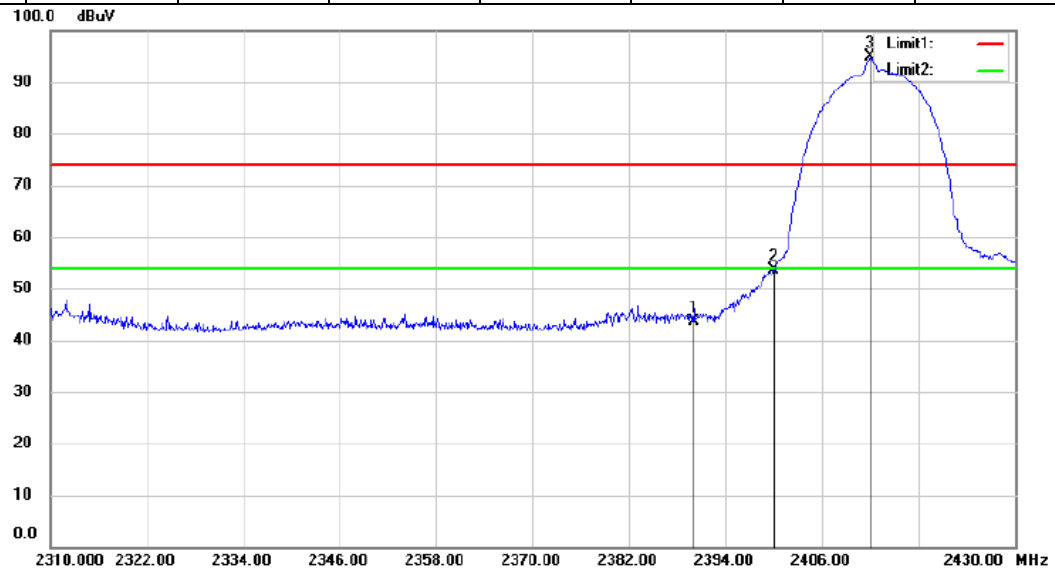
7.8.2 Radiated Band edge

Antenna A:

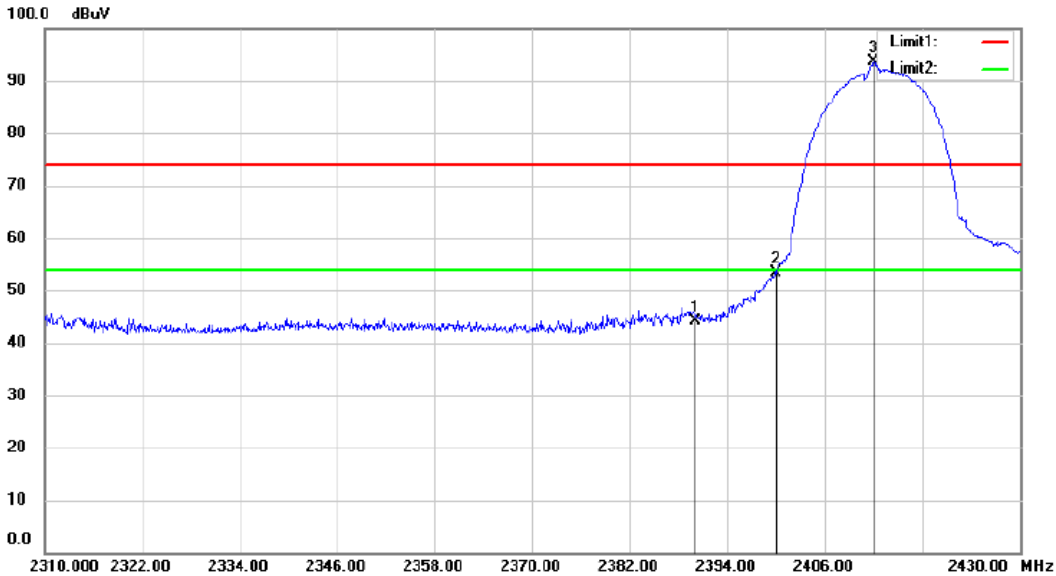
Test Mode: 802.11b **Channel: lowest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2390	47.57	-3.95	43.62	54	-10.38	Peak	Horizontal
2	2400	57.73	-4.01	53.72	54	-0.28	Peak	Horizontal
3	2412	98.94	-4.09	94.85	54	40.85	Peak	Horizontal
1	2390	48.00	-3.95	44.05	54	-9.95	Peak	Vertical
2	2400	57.51	-4.01	53.5	54	-0.50	Peak	Vertical
3	2412	97.69	-4.09	93.60	54	39.60	Peak	Vertical

Horizontal



Vertical



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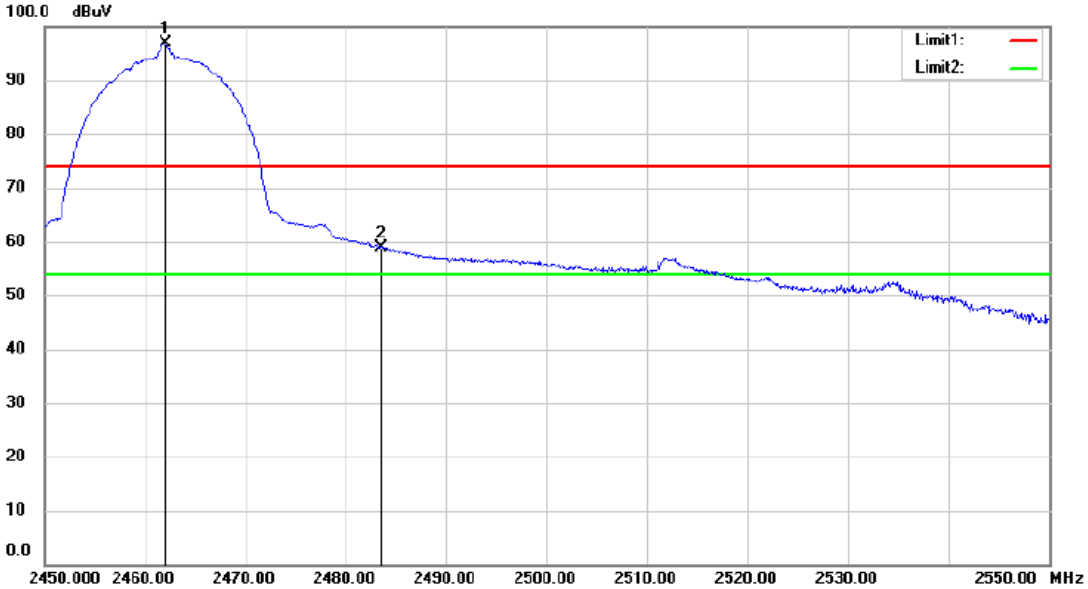
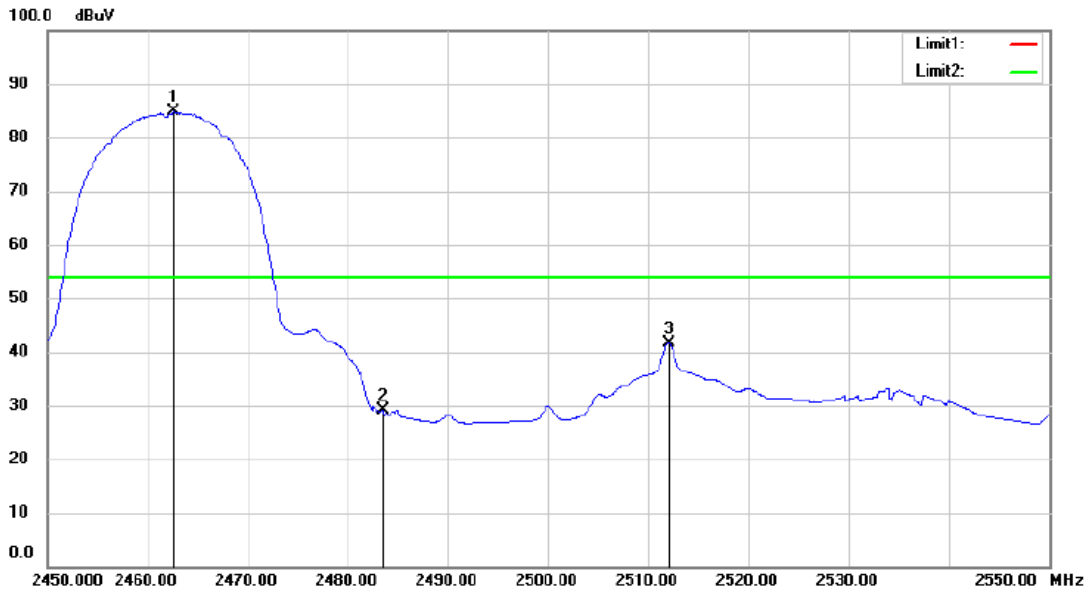
Test Mode: 802.11b **Channel: Highest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2462	101.20	-4.40	96.80	74	22.80	Peak	Horizontal
2	2483.5	63.48	-4.53	58.95	74	-15.05	Peak	Horizontal
1	2462.6	89.16	-4.40	84.76	54	30.76	Average	Horizontal
2	2483.5	33.67	-4.53	29.14	54	-24.86	Average	Horizontal
3	2512	46.21	-4.52	41.69	54	-12.31	Average	Horizontal

Peak



Average



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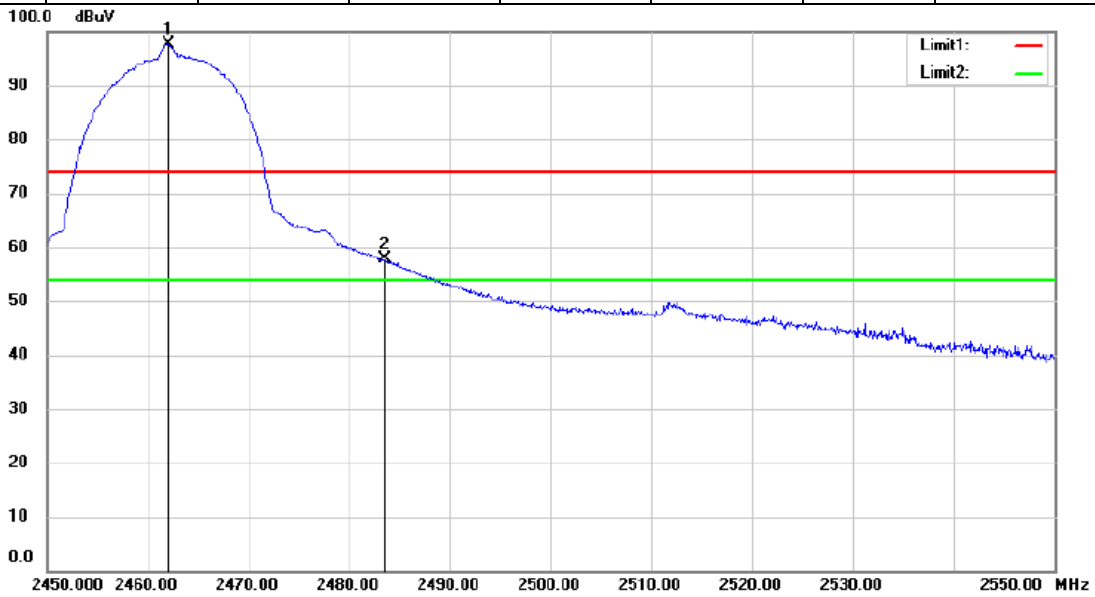
Test Mode: 802.11b **Channel: Highest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2462	102.04	-4.40	97.64	74	23.64	Peak	Vertical
2	2483.5	62.34	-4.53	57.81	74	-16.19	Peak	Vertical
1	2462	90.01	-4.40	85.61	54	31.61	Average	Vertical
2	2483.5	32.66	-4.53	28.13	54	-25.87	Average	Vertical
3	2512.3	39.25	-4.51	34.74	54	-19.26	Average	Vertical

Peak



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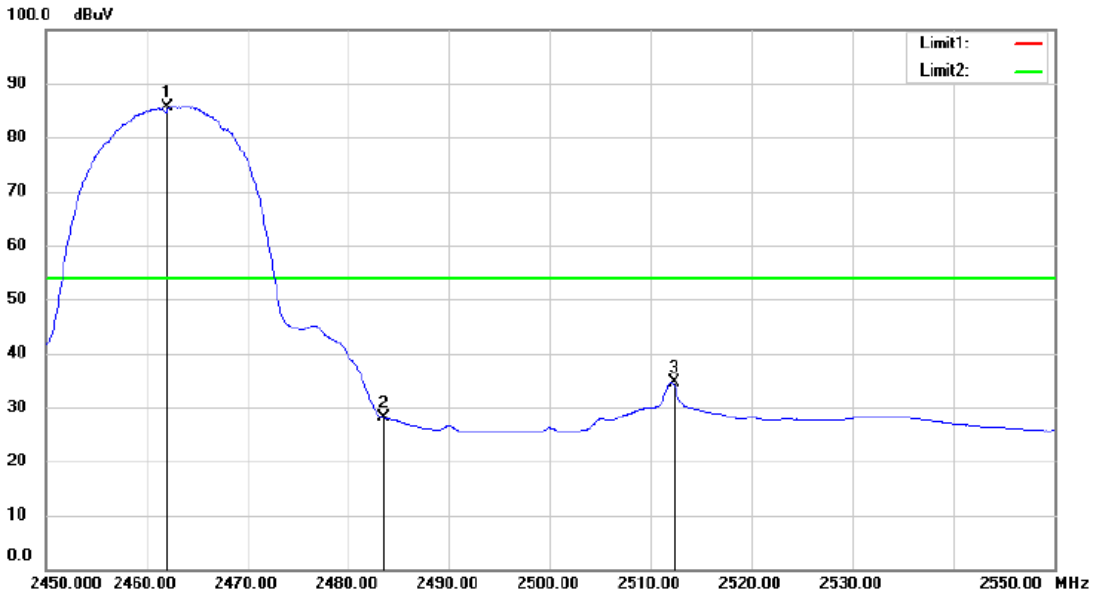

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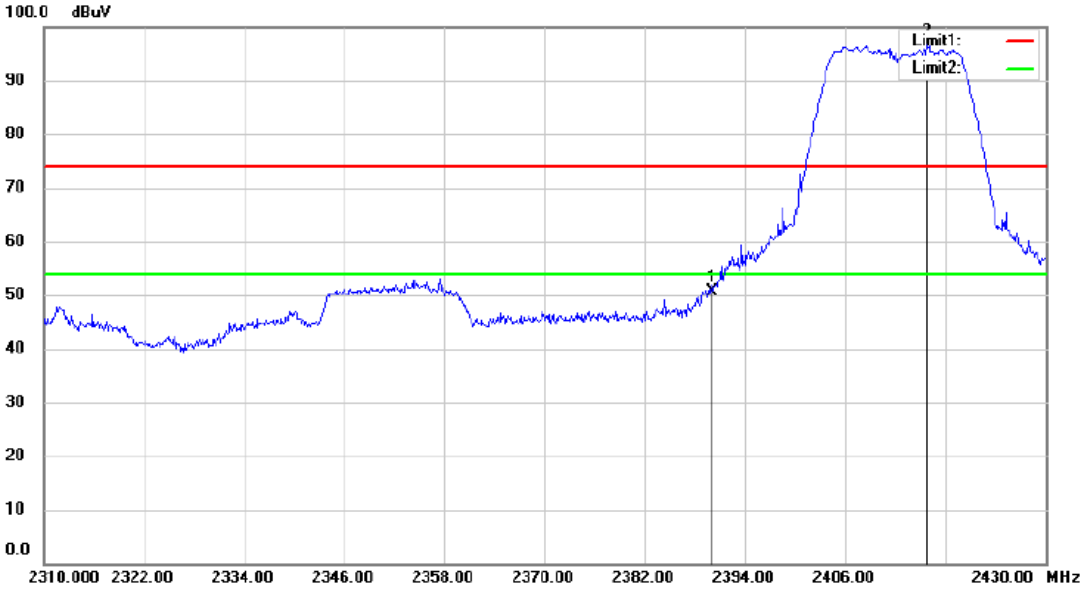
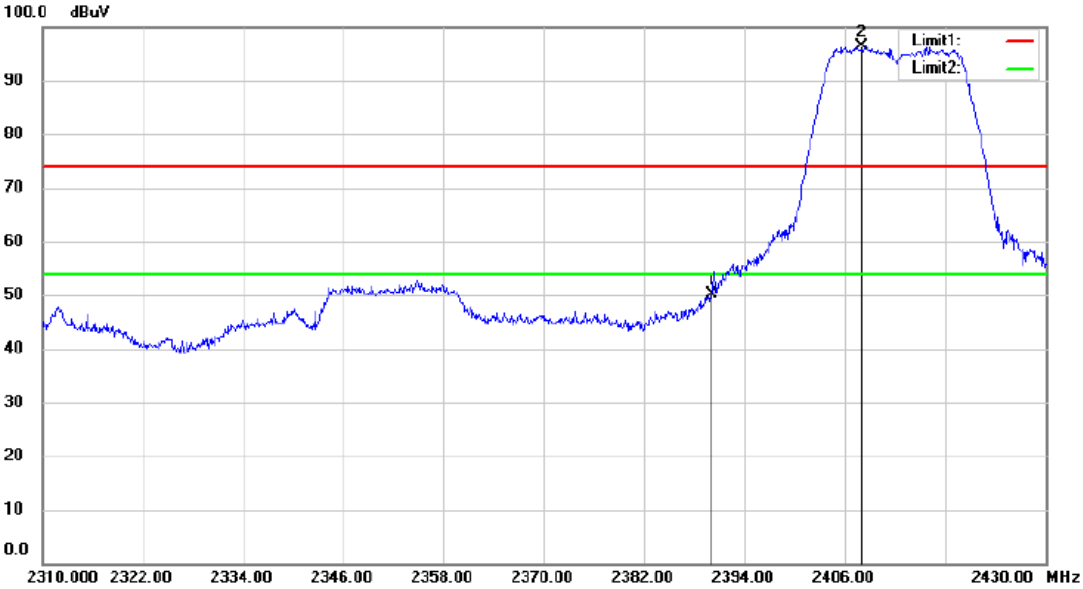
Test Mode: 802.11g **Channel: lowest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2390	54.60	-3.95	50.65	54	-3.35	Peak	Horizontal
2	2415.81	100.72	-4.11	96.61	54	42.61	Peak	Horizontal
1	2390	54.17	-3.95	50.22	54	-3.78	Peak	Vertical
2	2407.9	100.47	-4.06	96.41	54	42.41	Peak	Vertical

Horizontal



Vertical



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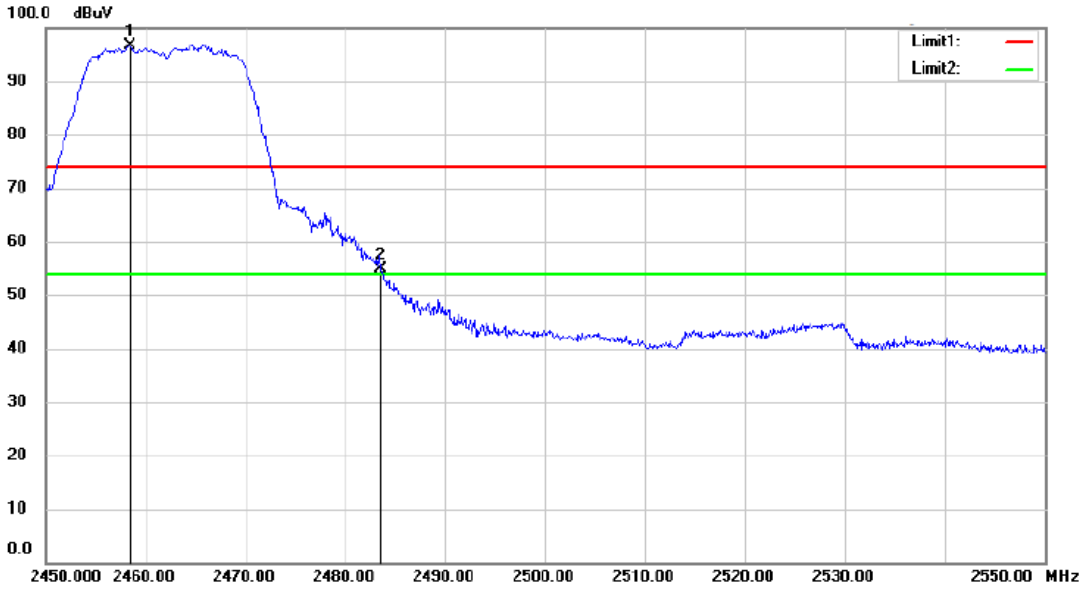
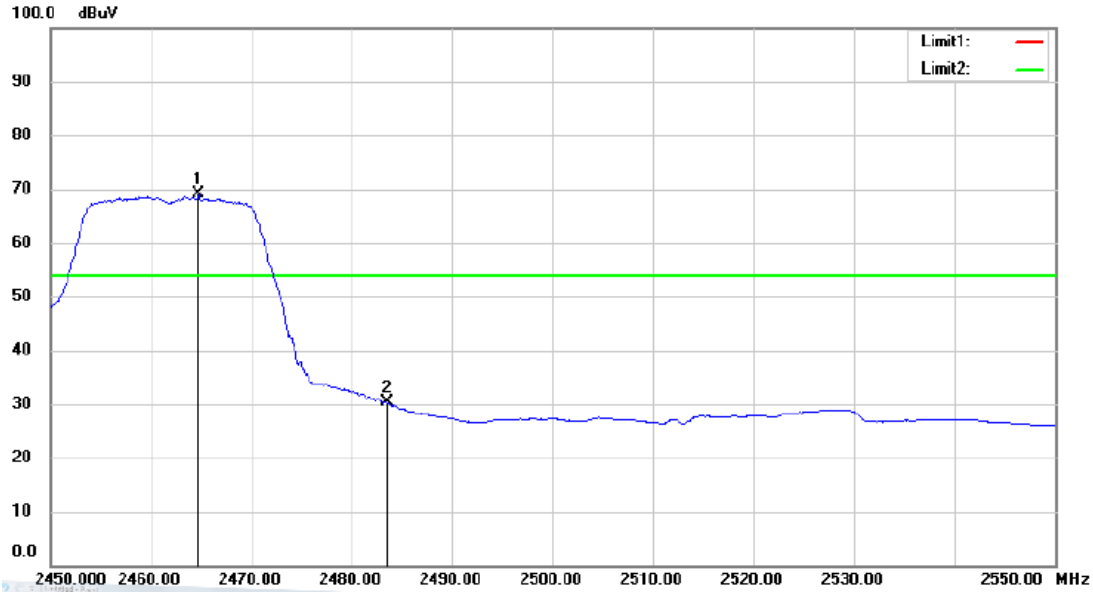
Test Mode: 802.11g **Channel: Highest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2458.40	100.89	-4.38	96.51	74	22.51	Peak	Horizontal
2	2483.50	59.44	-4.53	54.91	74	-19.09	Peak	Horizontal
1	2464.70	73.60	-4.41	69.19	54	15.19	Average	Horizontal
2	2483.50	34.86	-4.53	30.33	54	-23.67	Average	Horizontal

Peak



Average



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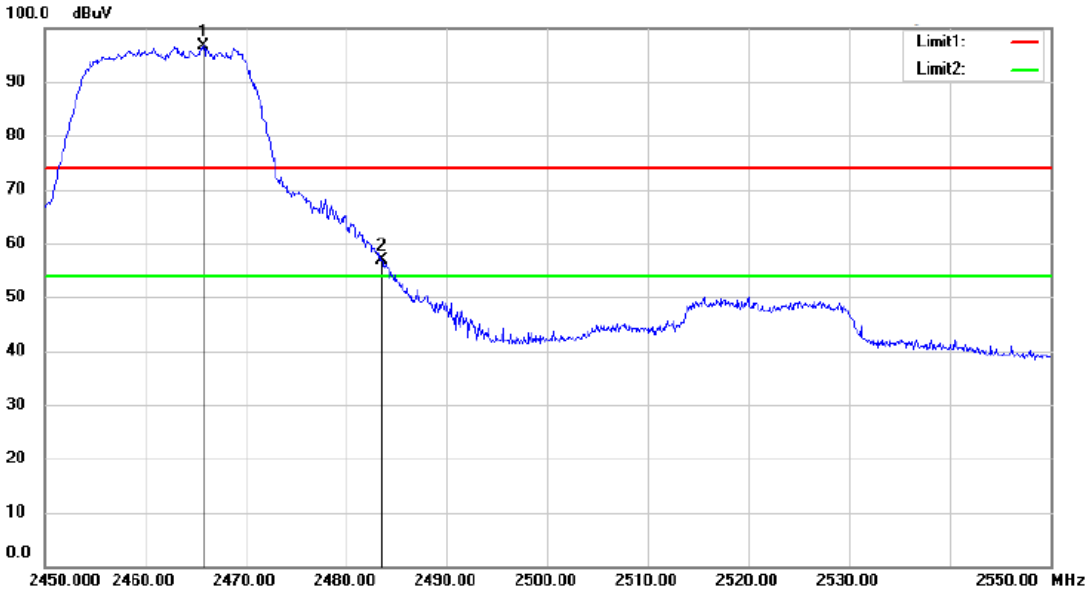
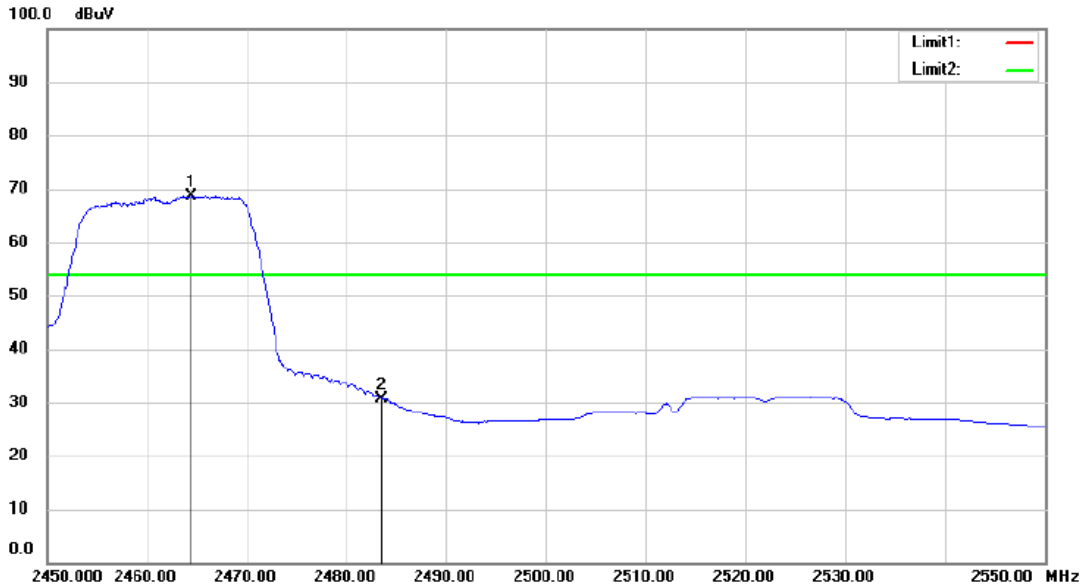
Test Mode: 802.11g **Channel: Highest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2465.80	101.15	-4.42	96.73	74	22.73	Peak	Vertical
2	2483.50	61.45	-4.53	56.92	74	-17.08	Peak	Vertical
1	2464.40	73.05	-4.41	68.64	54	14.64	Average	Vertical
2	2483.50	35.14	-4.53	30.61	54	-23.39	Average	Vertical

Peak



Average



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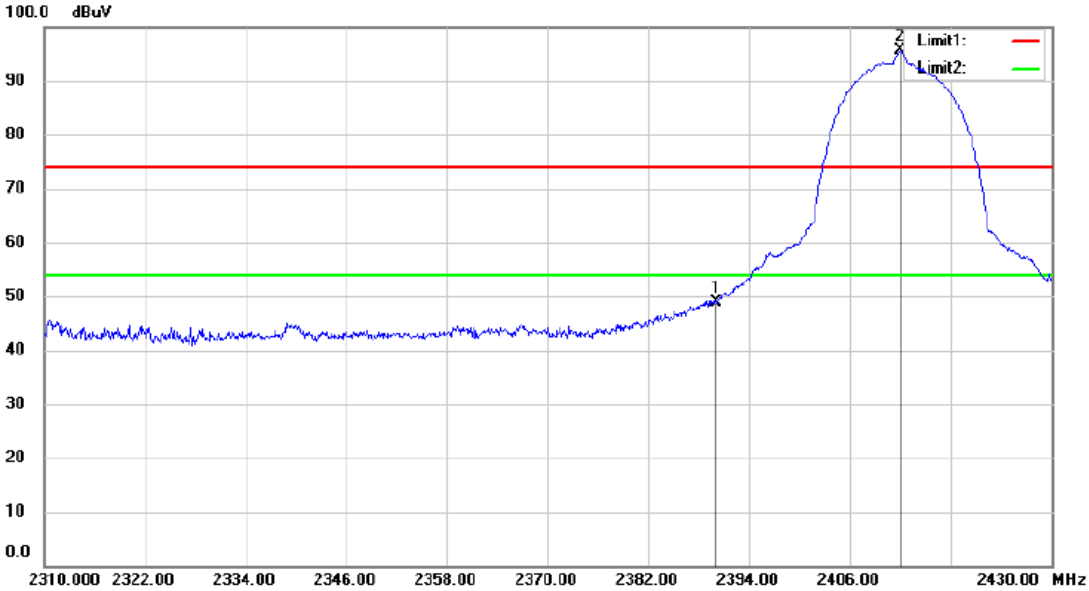
Antenna B:

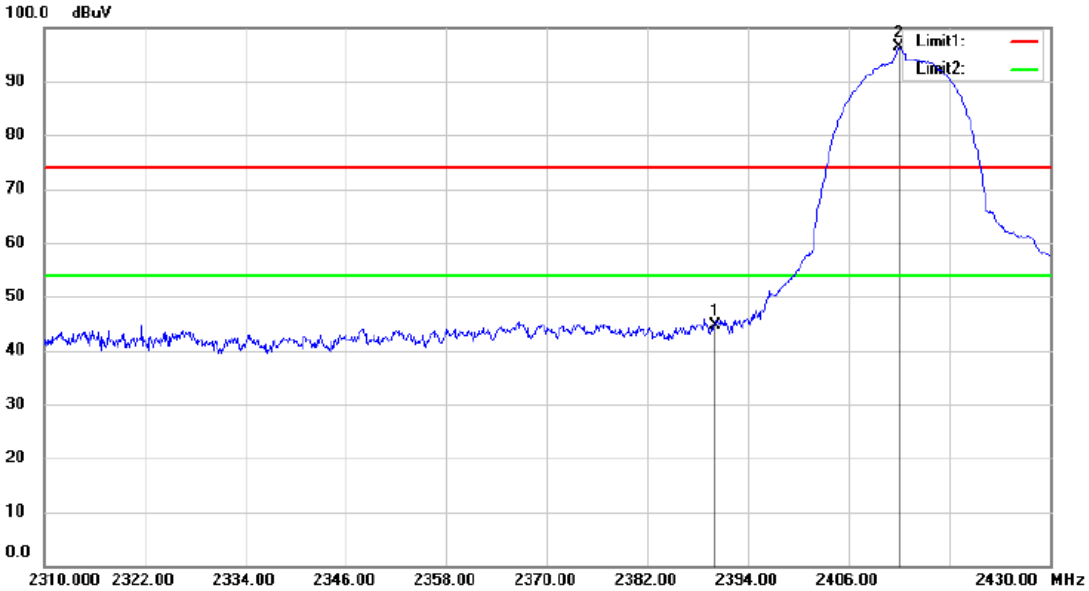
Test Mode: 802.11b **Channel: lowest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2390	52.76	-3.95	48.81	54	-5.19	Peak	Horizontal
2	2412	99.73	-4.09	95.64	54	41.64	Peak	Horizontal
1	2390	48.53	-3.95	44.58	54	-9.42	Peak	Vertical
2	2412	100.40	-4.09	96.31	54	42.31	Peak	Vertical

Horizontal



Vertical



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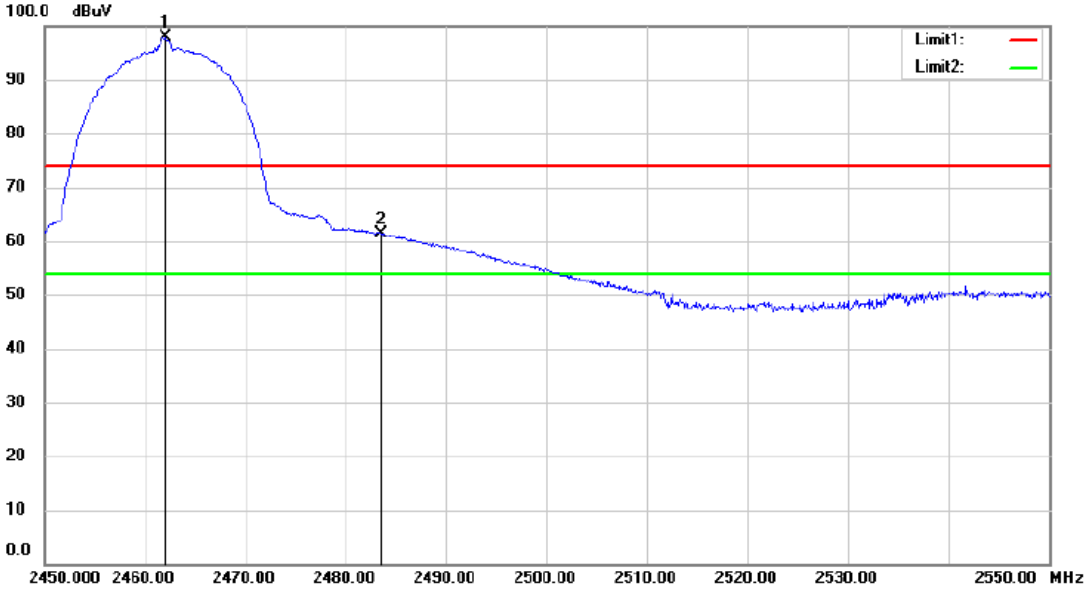
Test Mode: 802.11b **Channel: Highest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2462	102.33	-4.40	97.93	74	23.93	Peak	Horizontal
2	2483.5	65.89	-4.53	61.36	74	-12.64	Peak	Horizontal
1	2462	90.27	-4.4	85.87	54	31.87	Average	Horizontal
2	2483.5	34.65	-4.53	30.12	54	-23.88	Average	Horizontal
3	2512	39.17	-4.52	34.65	54	-19.35	Average	Horizontal

Peak



Average

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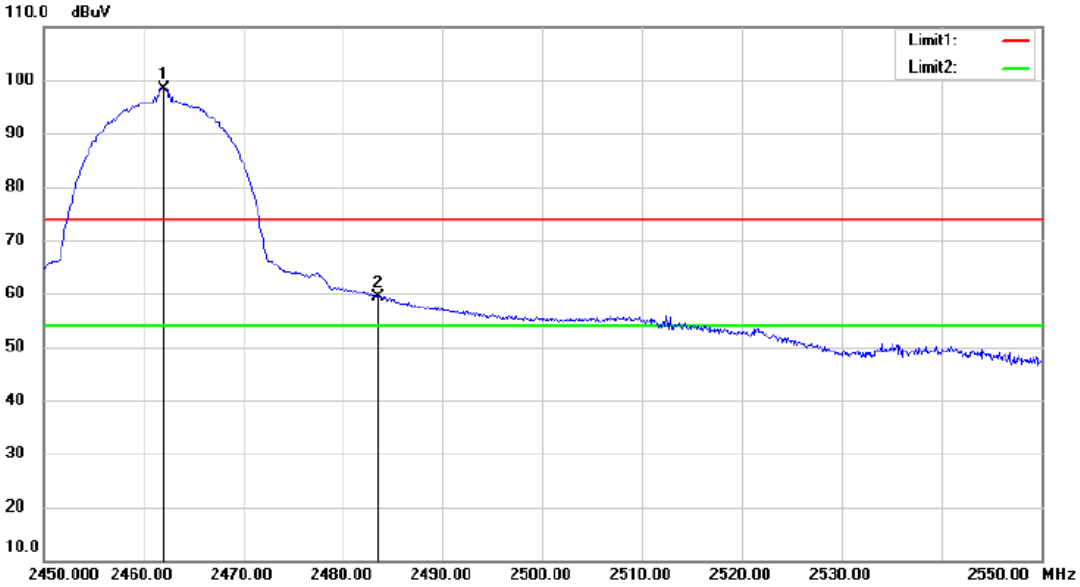
Test Mode: 802.11b **Channel: Highest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2462	102.88	-4.40	98.48	74	24.48	Peak	Vertical
2	2483.5	64.03	-4.53	59.5	74	-14.50	Peak	Vertical
1	2462	90.66	-4.4	86.26	54	32.26	Average	Vertical
2	2483.5	33.46	-4.53	28.93	54	-25.07	Average	Vertical
3	2512	44.66	-4.52	40.14	54	-13.86	Average	Vertical

Peak



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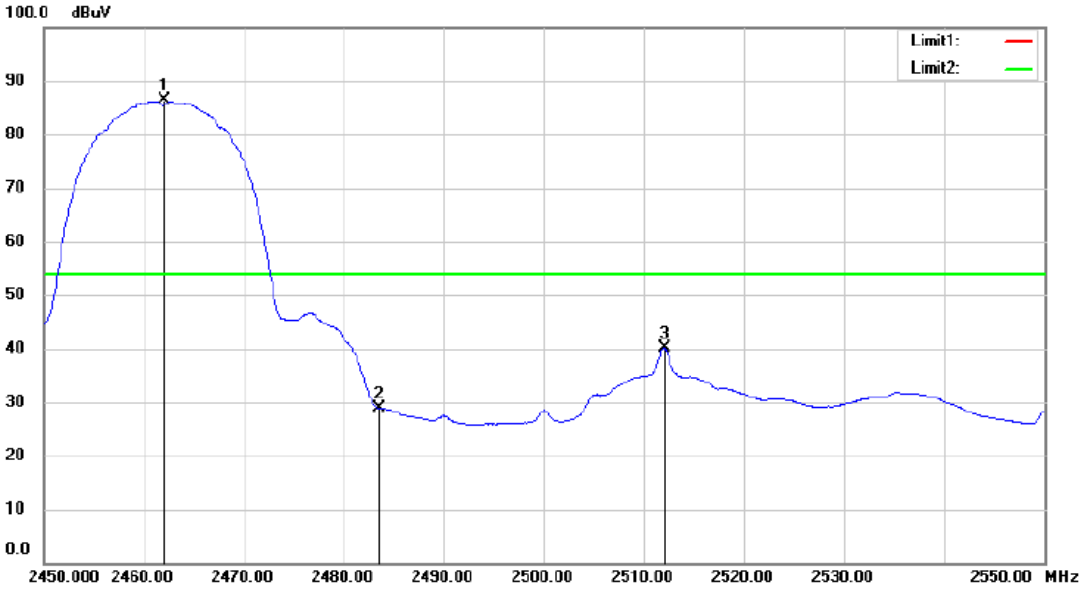

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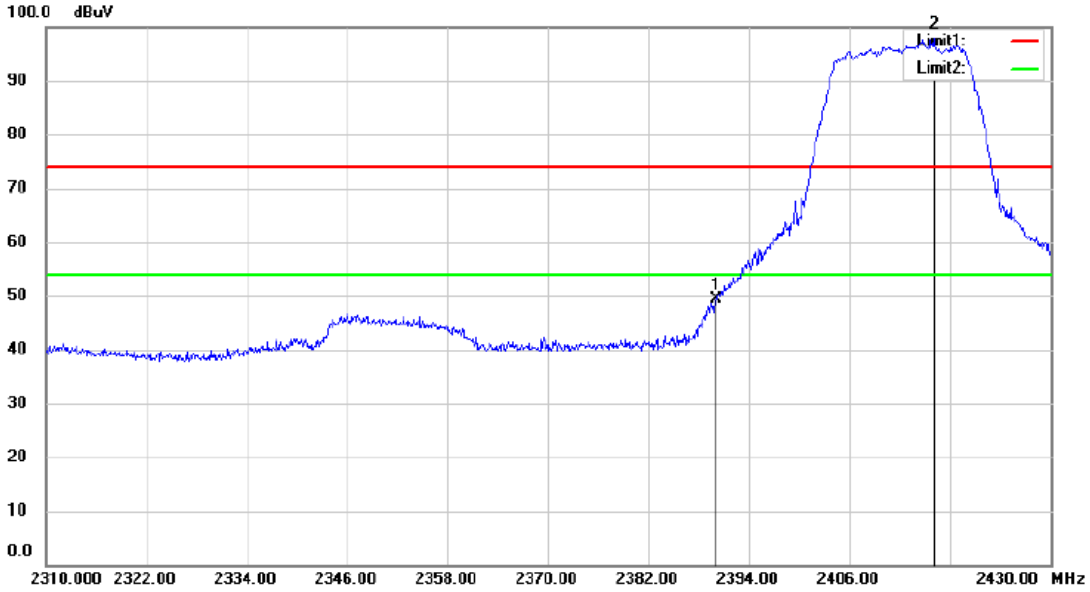
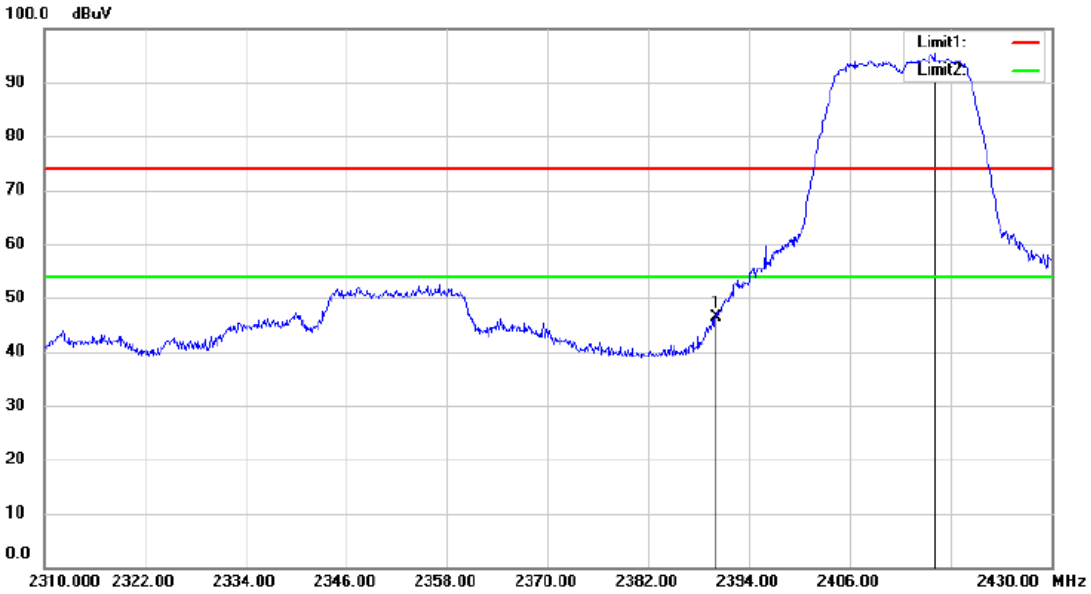
Test Mode: 802.11g **Channel: lowest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2390	53.23	-3.95	49.28	54	-4.72	Peak	Horizontal
2	2416	101.93	-4.11	97.82	54	43.82	Peak	Horizontal
1	2390	50.39	-3.95	46.44	54	-7.56	Peak	Vertical
2	2416	99.61	-4.11	95.50	54	41.50	Peak	Vertical

Horizontal



Vertical



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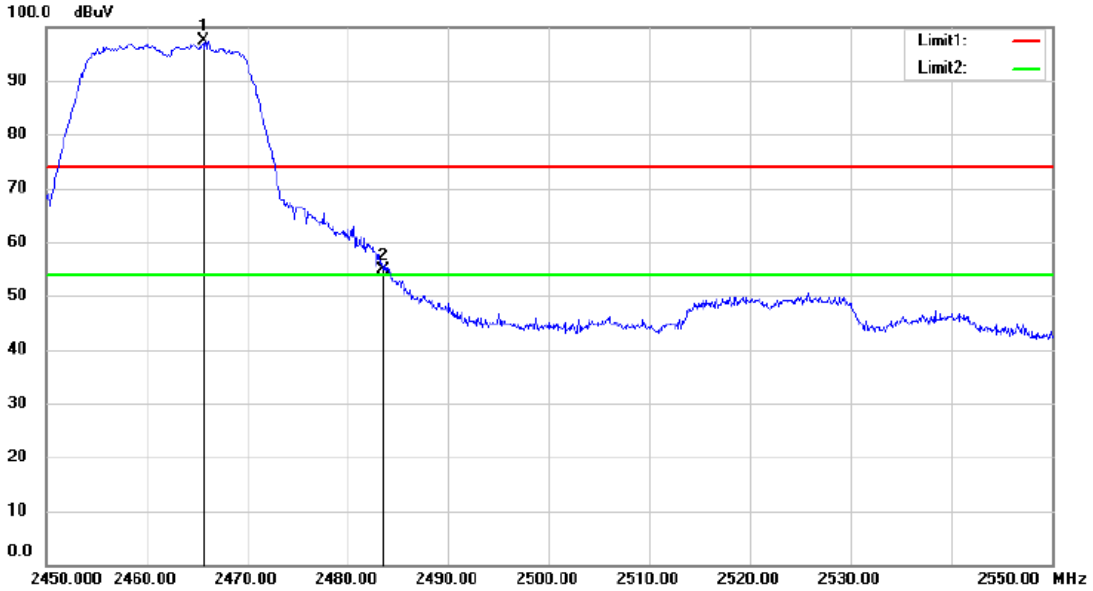
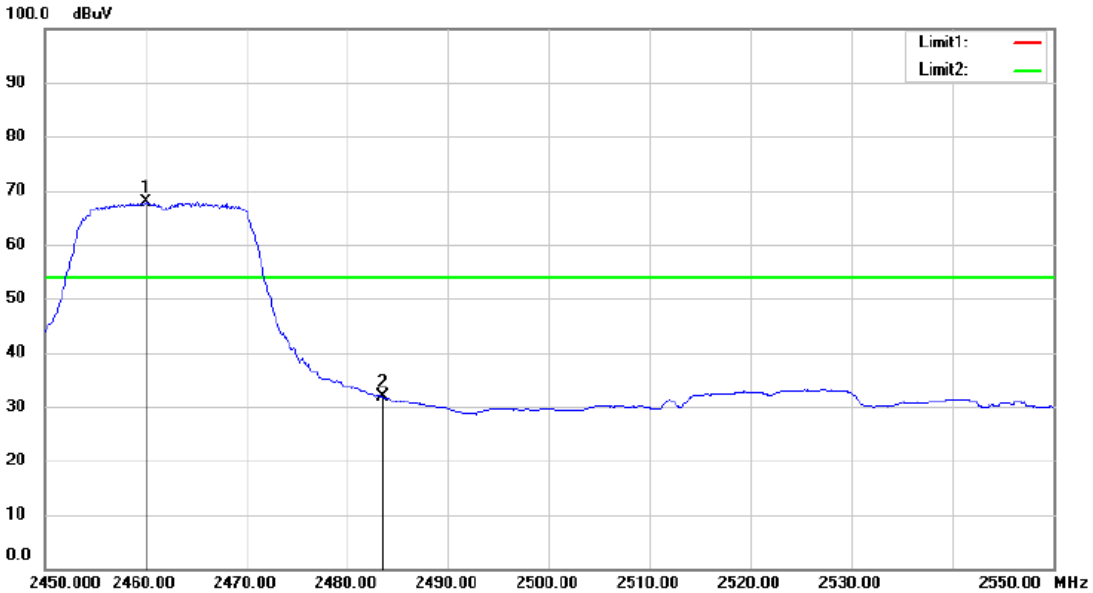
Test Mode: 802.11g **Channel: Highest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2465.70	101.80	-4.42	97.38	74	23.38	Peak	Horizontal
2	2483.50	59.47	-4.53	54.94	74	-19.06	Peak	Horizontal
1	2460.10	72.19	-4.39	67.80	54	13.80	Average	Horizontal
2	2483.50	36.30	-4.53	31.77	54	-22.23	Average	Horizontal

Peak



Average



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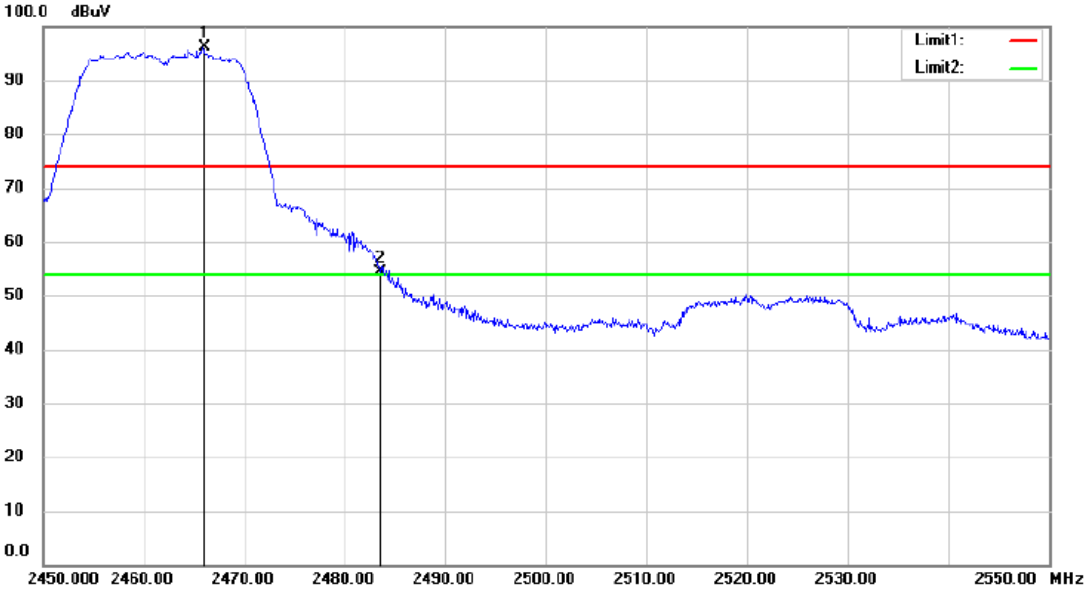
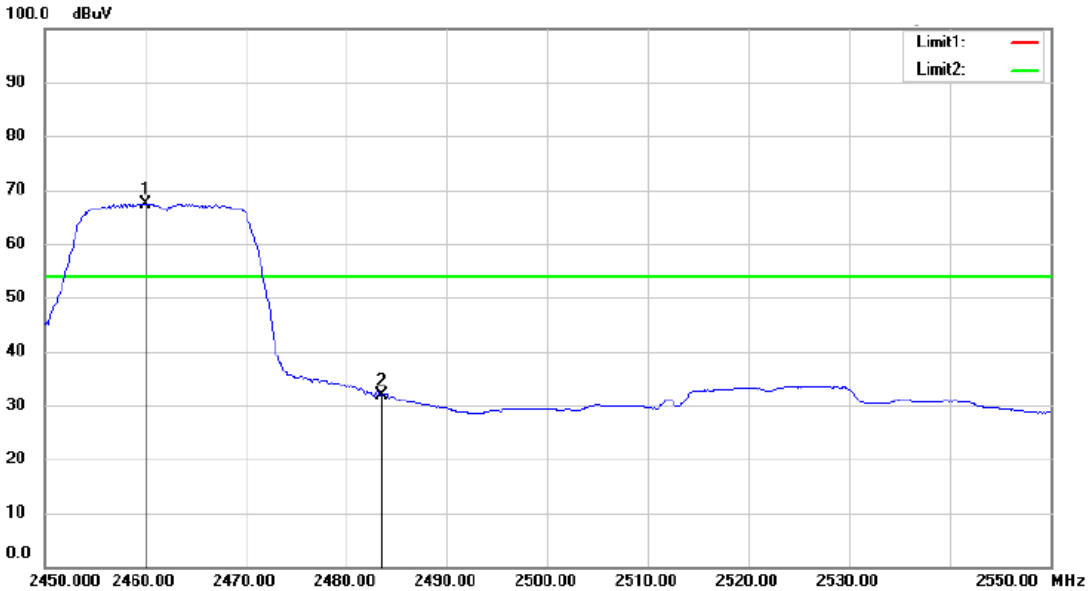
Test Mode: 802.11g **Channel: Highest**

MK.	Frequency (MHz)	Reading (dBuV/m)	Corrected factor(dB)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	Detector	Polarization
1	2466	100.61	-4.43	96.18	74	22.18	Peak	Vertical
2	2483.50	58.94	-4.53	54.41	74	-19.59	Peak	Vertical
1	2460	71.89	-4.39	67.50	54	13.50	Average	Vertical
2	2483.50	36.38	-4.53	31.85	54	-22.15	Average	Vertical

Peak



Average



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Remark: 1. Test Level = Receiver Reading + Antenna Factor + Cable Loss- Preamplifier Factor

2. No any other emission which falls in restricted bands can be detected and be reported.

3. If the Peak value below the AV Limit, the AV test doesn't perform for this submission.

All frequencies within the "Restricted bands" have been evaluated to compliance. Section 15.205 Restricted bands of operation.

Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

1. FCC Part 15, Subpart C Section 15.205 Restricted bands of operation.

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.5 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	
13.36 - 13.41			

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2. RSS-Gen section 7.2.2 Restricted bands of operation

MHz	MHz	GHz
0.090-0.110	240-285	9.0-9.2
2.1735-2.1905	322-335.4	9.3-9.5
3.020-3.026	399.9-410	10.6-12.7
4.125-4.128	608-614	13.25-13.4
4.17725-4.17775	960-1427	14.47-14.5
4.20725-4.20775	1435-1626.5	15.35-16.2
5.677-5.683	1645.5-1646.5	17.7-21.4
6.215-6.218	1660-1710	22.01-23.12
6.26775-6.26825	1718.8-1722.2	23.6-24.0
6.31175-6.31225	2200-2300	31.2-31.8
8.291-8.294	2310-2390	36.43-36.5
8.362-8.366	2655-2900	Above 38.6
8.37625-8.38675	3260-3267	
8.41425-8.41475	3332-3339	
12.29-12.293	3345.8-3358	
12.51975-12.52025	3500-4400	
12.57675-12.57725	4500-5150	
13.36-13.41	5350-5460	
16.42-16.423	7250-7750	
16.69475-16.69525	8025-8500	
16.80425-16.80475		
25.5-25.67		
37.5-38.25		
73-74.6		
74.8-75.2		
108-138		
156.52475-156.52525		
156.7-156.9		

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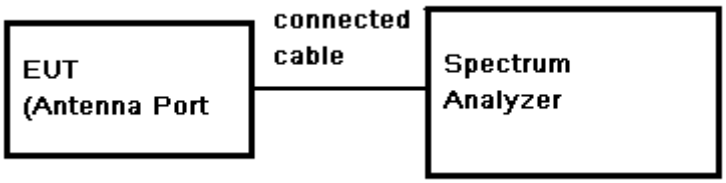
7.9 99% Occupied Bandwidth

Test Configuration:



Test Procedure:

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: Span = approximately 2 to 3 times the 20dB bandwidth, centred on the hopping channel;
3. Set the spectrum analyzer: RBW >= 1% of the 20dB bandwidth (set 1MHz). VBW >= RBW. Sweep = auto; Detector Function = Peak. Trace = Max Hold.
4. Mark the peak frequency and -20dB points.

Test Result: Pass

Test Date:

Antenna	Test Mode	Channel (MHz)	Bandwidth (MHz)
Antenna A	802.11b	Lowest (2412)	15.99
		Middle (2437)	15.96
		Highest (2462)	15.99
	802.11g	Lowest (2412)	16.80
		Middle (2437)	16.77
		Highest (2462)	16.80
Antenna B	802.11b	Lowest (2412)	15.99
		Middle (2437)	15.99
		Highest (2462)	15.99
	802.11g	Lowest (2412)	16.77
		Middle (2437)	16.77
		Highest (2462)	16.83

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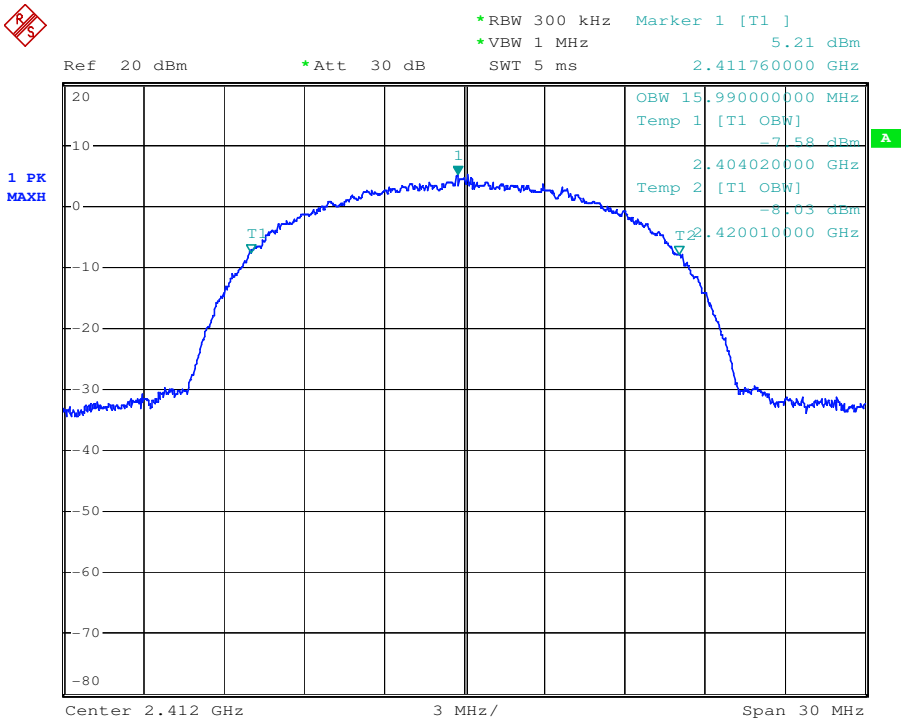
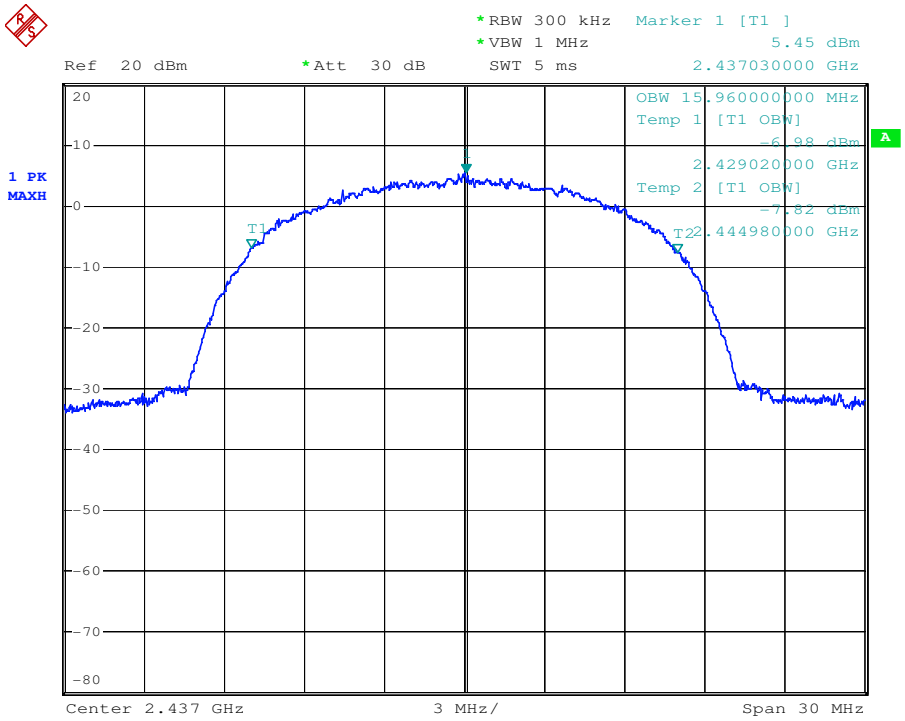
Test plot as follows:
Antenna A:

Test Mode: 802.11b **Channel: lowest**



Test Mode: 802.11b **Channel: Middle**



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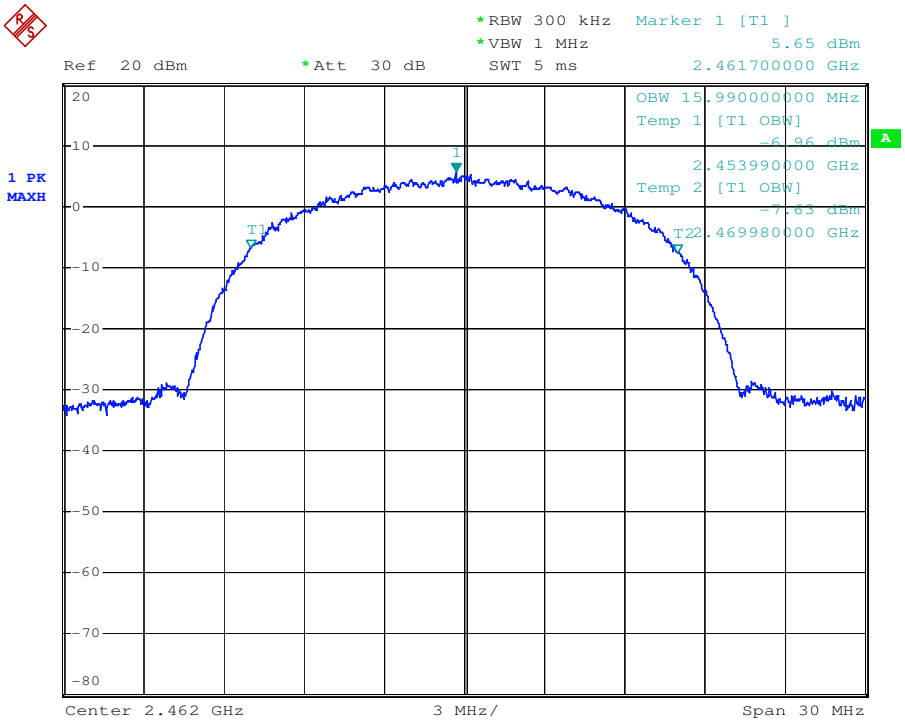
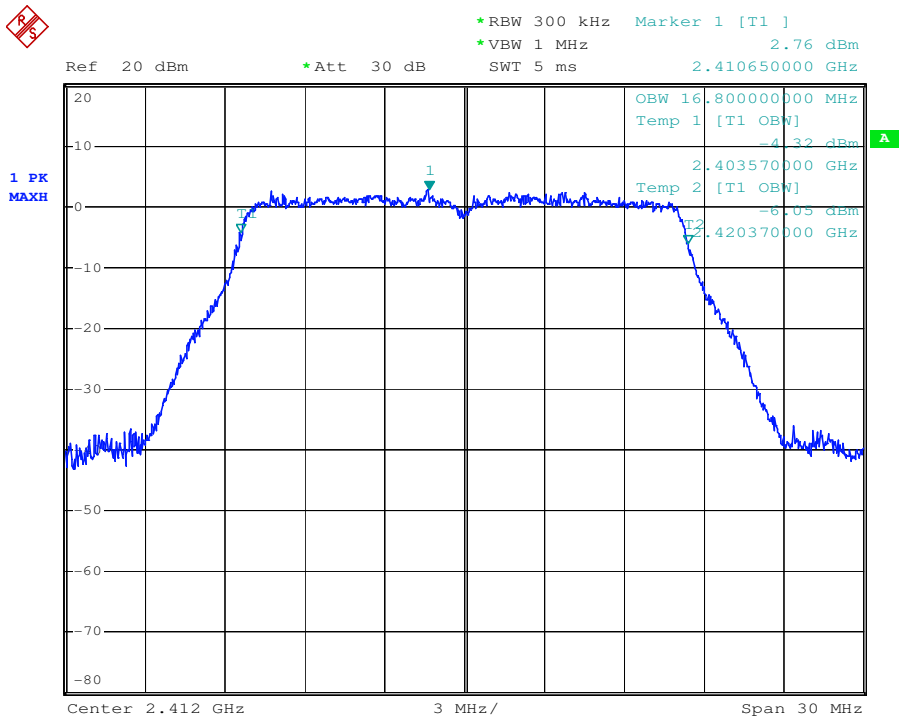
Test Mode: 802.11b **Channel: Highest**



Test Mode: 802.11g **Channel: lowest**



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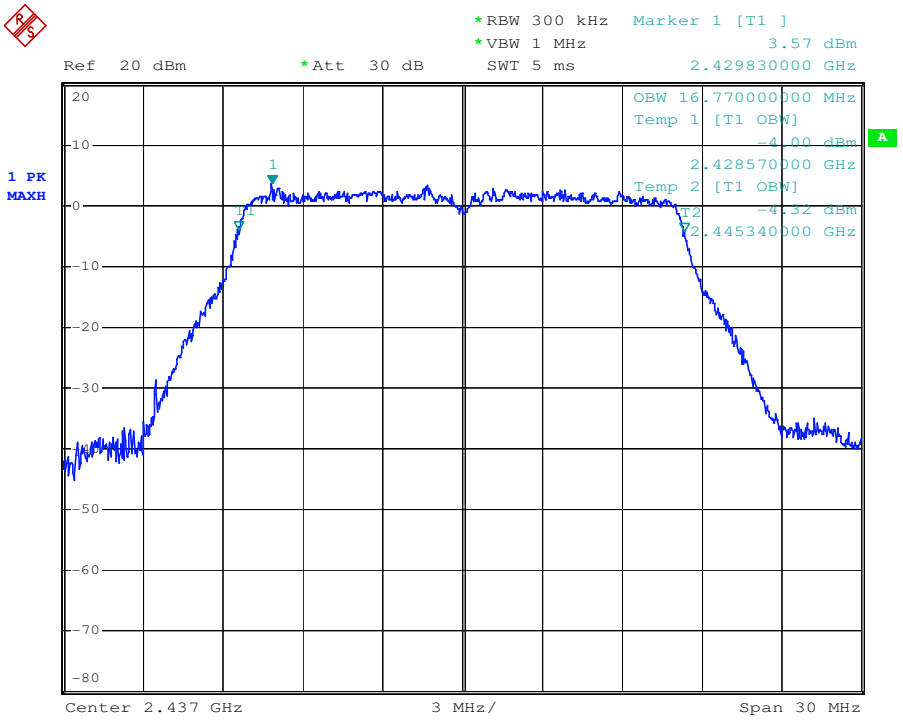
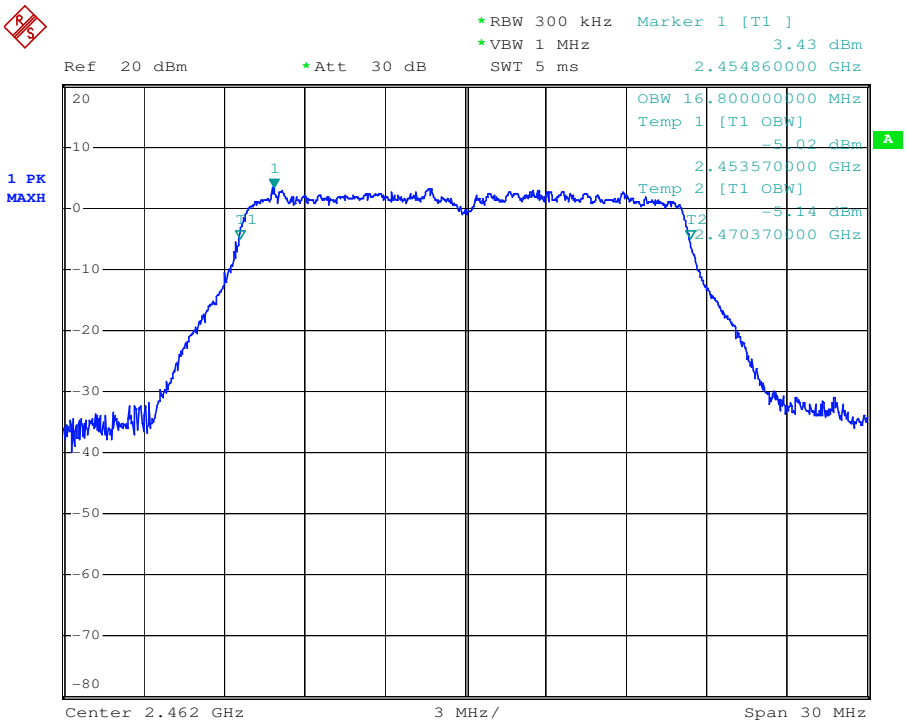
Test Mode: 802.11g **Channel: Middle**



Test Mode: 802.11g **Channel: Highest**



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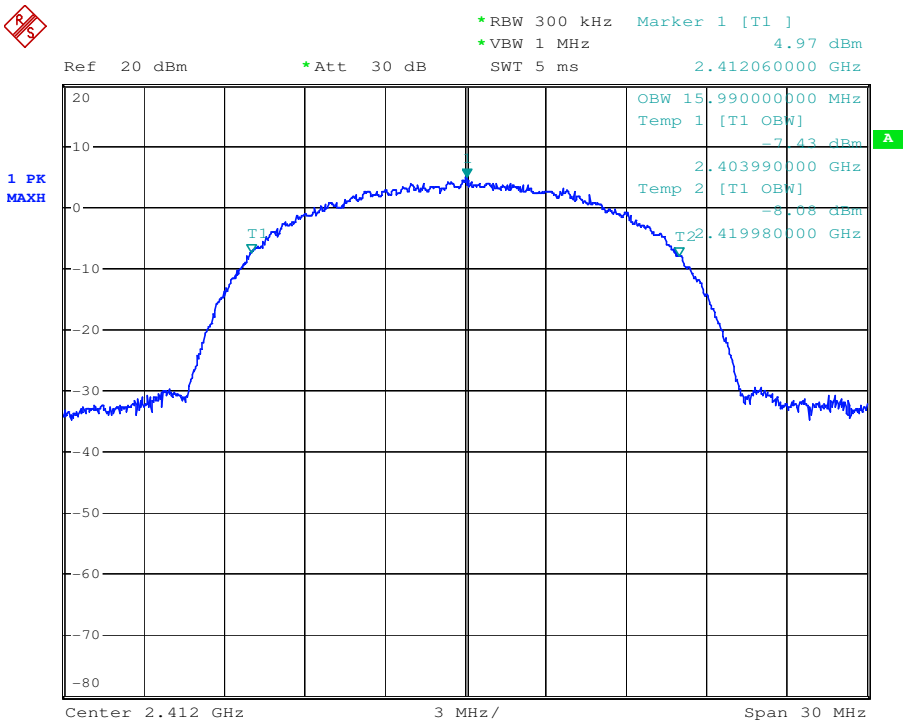
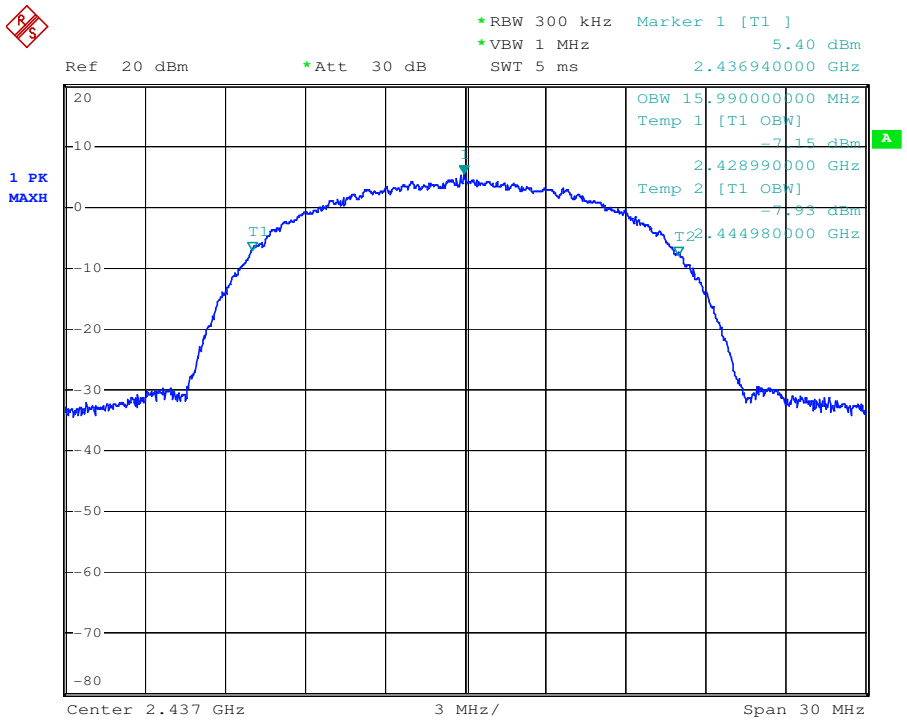
Antenna B:

Test Mode: 802.11b **Channel: lowest**



Test Mode: 802.11b **Channel: Middle**



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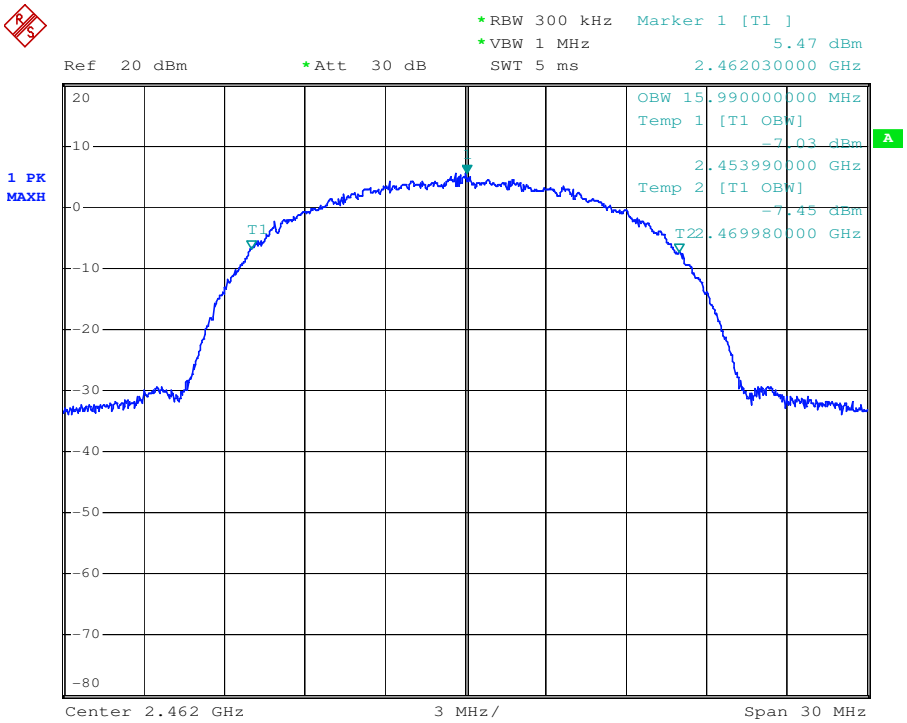
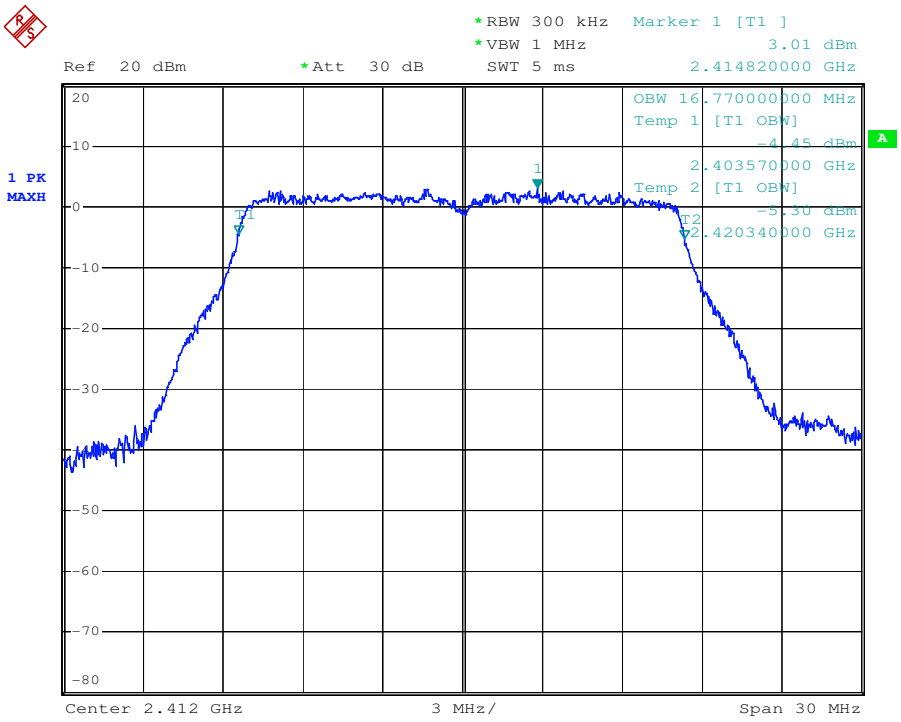
Test Mode: 802.11b **Channel: Highest**



Test Mode: 802.11g **Channel: lowest**



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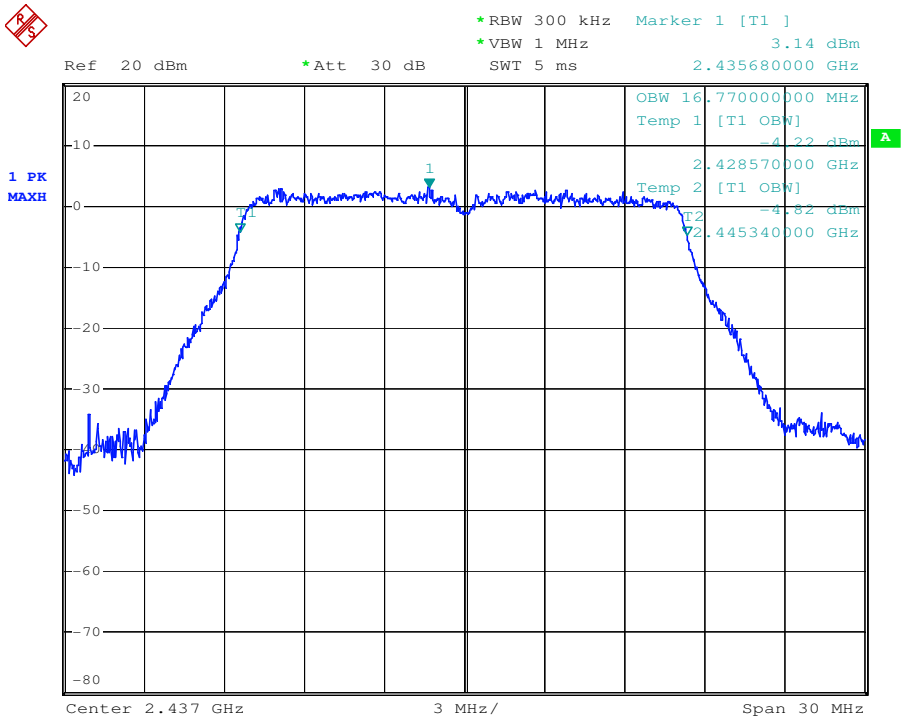
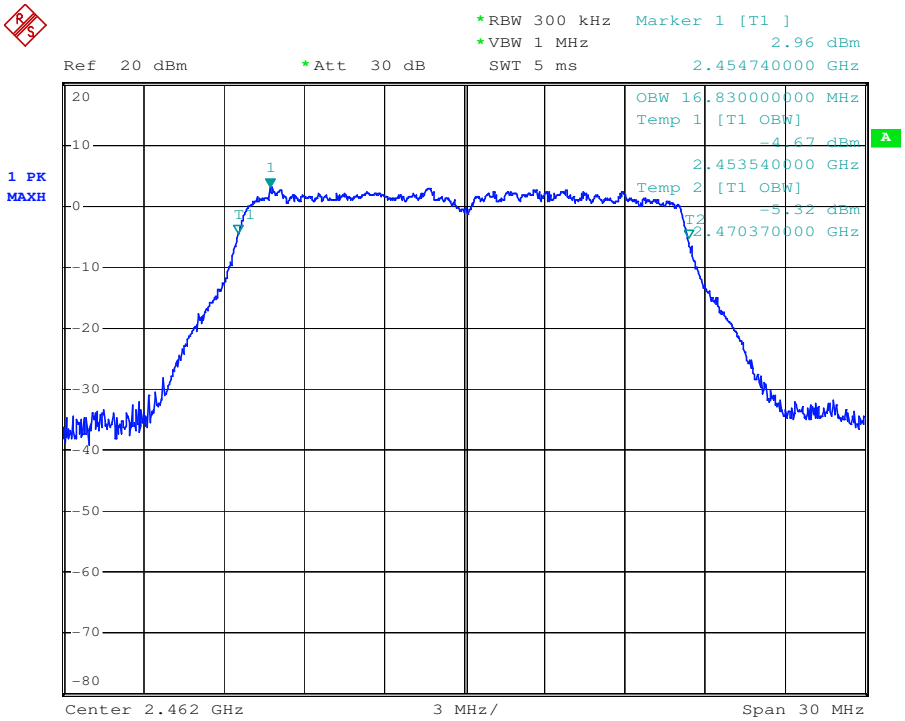
Test Mode: 802.11g **Channel: Middle**



Test Mode: 802.11g **Channel: Highest**



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8 Test Setup Photographs

Refer to the < Air 100 V2 _Test Setup photos-FCC>.

9 EUT Constructional Details

Refer to the < Air 100 V2 _External Photos-FCC > & < Air 100 V2 _Internal Photos-FCC>.

--End of the Report--

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