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Report No.: SZEM151200764701
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FCC REPORT

Application No: SZEM1512007647CR
Applicant: Shenzhen Longsys Electronics Co.,Ltd.
Manufacturer: Shenzhen Longsys Electronics Co.,Ltd.
Factory: Shenzhen Longsys Electronics Co.,Ltd.
Product Name: Wireless Portable Disk
Model No.(EUT): NW3219
FCC ID: 2ADF63219
Standards: 47 CFR Part 15, Subpart C (2015)
Date of Receipt: 2015-12-14
Date of Test: 2015-12-28
Date of Issue: 2016-02-25

Test Result:	PASS *
---------------------	---------------

. * In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

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. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

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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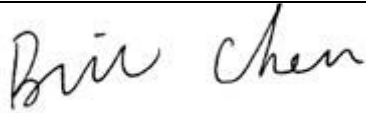
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2 Version

<i>Revision Record</i>				
<i>Version</i>	<i>Chapter</i>	<i>Date</i>	<i>Modifier</i>	<i>Remark</i>
00		2015-02-25		Original

Authorized for issue by:				
Tested By				2015-12-28
				Date
Prepared By				2016-02-25
				Date
Checked By				2016-02-25
				Date

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3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203/15.247 (c)	ANSI C63.10 2013 5.8	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013 6.2	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	ANSI C63.10 2013 11.9	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	ANSI C63.10 2013 11.8	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	ANSI C63.10 2013 11.10	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013 11.13	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	ANSI C63.10 2013 11.11	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013 11.12	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2013 11.12	PASS



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5 General Information

5.1 Client Information

Applicant:	Shenzhen Longsys Electronics Co.,Ltd.
Address of Applicant:	8/F.1 Building, Financial Base, NO.8 kefa Road, High-Tech Park, Shenzhen, China.
Manufacturer:	Shenzhen Longsys Electronics Co.,Ltd.
Address of Manufacturer:	8/F.1 Building, Financial Base, NO.8 kefa Road, High-Tech Park, Shenzhen, China.
Factory:	Shenzhen Longsys Electronics Co.,Ltd.
Address of Factory:	8/F.1 Building, Financial Base, NO.8 kefa Road, High-Tech Park, Shenzhen, China.

5.2 General Description of EUT

Product Name:	Wireless Portable Disk
Model No.:	NW3219
Operation Frequency:	WiFi b/g/n(HT20)/n(HT40),
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels
Channel Separation:	5MHz
Type of Modulation:	802.11b: DSSS; 802.11g: OFDM; 802.11n(20MHz/40MHz): OFDM;
Sample Type:	Portable production
Antenna Gain:	1dBi
Antenna Type:	Chip Antenna
Power Supply:	Rechargeable battery: DC 3.7V 430mAh Charge by USB
The Limit Temperature:	0 °C to: 40 °C



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Operation Frequency each of channel(802.11b/g/n HT20)							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	2412MHz	4	2427MHz	7	2442MHz	10	2457MHz
2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
3	2422MHz	6	2437MHz	9	2452MHz		
Operation Frequency each of channel(802.11n HT40)							
Channel		Frequency		Channel		Frequency	
1		2422MHz		4		2437MHz	
2		2427MHz		5		2442MHz	
3		2432MHz		6		2447MHz	

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

For 802.11b/g/n (HT20):

Channel	Frequency
The Lowest channel	2412MHz
The Middle channel	2437MHz
The Highest channel	2462MHz

For 802.11n (HT40):

Channel	Frequency
The Lowest channel	2422MHz
The Middle channel	2437MHz
The Highest channel	2452MHz



5.3 Test Environment and Mode

Operating Environment:	
Temperature:	25 °C
Humidity:	50 % RH
Atmospheric Pressure:	1025 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

5.4 Description of Support Units

The EUT has been tested with associated equipment below:

Description	Manufacturer	Model No.
Adapter	Apple	A1357W010A051

The following associated equipments are used only for configuration of engineering mode, not used during the test.

Description	Manufacturer	Model No.
Laptop(provided by SGS)	Lenovo	T430u
Test board	Supplied by client	V1.0.1
QATool_Dbg software	Supplied by client	None

Remark:

1. The engineering mode: use the LAN cable to build the connection between EUT and Laptop, Connected to the PC after into QATool_Dbg software Settings.
2. The USB port of the EUT, it has only charging function under the condition of the normal use.

5.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



5.6 Test Facility

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

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab 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.

- **A2LA (Certificate No. 3816.01)**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 3816.01.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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. Registration No.: 556682.

- **Industry Canada (IC)**

The 3m Semi-anechoic chambers and the 10m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-2, 4620C-3.

5.7 Deviation from Standards

None.

5.8 Abnormalities from Standard Conditions

None.

5.9 Other Information Requested by the Customer

None.



5.10 Equipment List

Conducted Emission						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-05-13	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-09	2016-10-09
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-13	2016-05-13
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T8-02	SEL0162	2015-08-30	2016-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T4-02	SEL0163	2015-08-30	2016-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLIS N-T2-02	SEL0164	2015-08-30	2016-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-13	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-13	2016-05-13
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
10	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13



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RE in Chamber						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-05-13	2016-05-13
2	EMI Test Receiver	Agilent Technologies	N9038A	SEL0312	2015-09-16	2016-09-16
3	EMI Test software	AUDIX	E3	SEL0050	N/A	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2014-11-15	2017-11-15
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-17	2016-10-17
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2014-11-24	2017-11-24
7	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-13	2016-05-13
8	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-17	2016-10-17
9	Coaxial cable	SGS	N/A	SEL0027	2015-05-13	2016-05-13
10	Coaxial cable	SGS	N/A	SEL0189	2015-05-13	2016-05-13
11	Coaxial cable	SGS	N/A	SEL0121	2015-05-13	2016-05-13
12	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
13	Band filter	Amindeon	82346	SEL0094	2015-05-13	2016-05-13
14	Barometer	Chang Chun	DYM3	SEL0088	2015-05-13	2016-05-13
15	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
16	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24	2016-10-24
17	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-13	2016-05-13
18	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-05-13	2016-05-13

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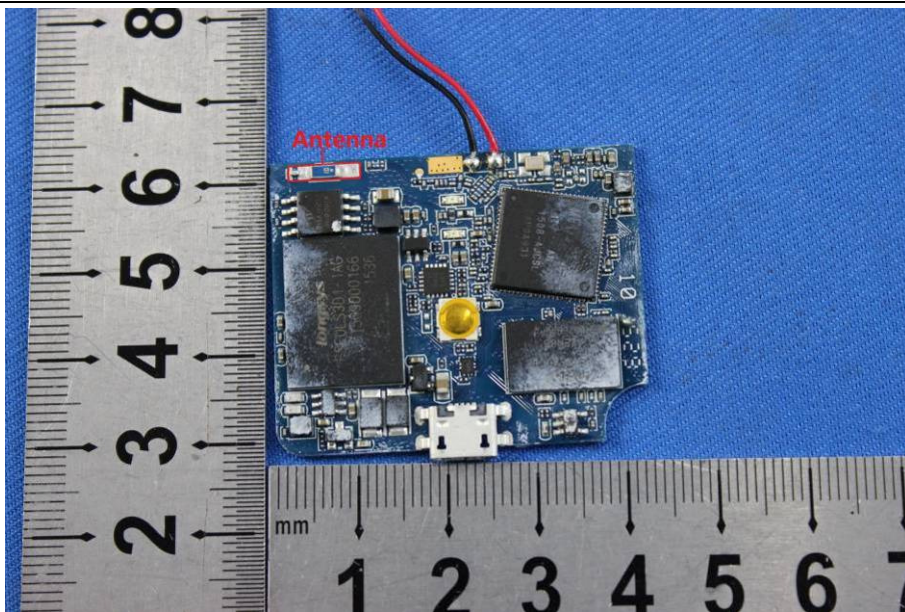
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RF connected test						
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal. date (yyyy-mm-dd)	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-09	2016-10-09
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24	2016-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-17	2016-10-17
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-13	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-13	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-13	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-04-25	2016-04-25
8	POWER METER	R & S	NRVS	SEL0144	2015-10-09	2016-10-09
9	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-04-25	2016-04-25

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6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1dBi.	





6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10 2013 6.2		
Test Frequency Range:	150kHz to 30MHz		
Limit:	Frequency range (MHz)	Limit (dBuV)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
* Decreases with the logarithm of the frequency.			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 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. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane, 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 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		



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Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel. Charge + Transmitting mode.
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Charge + Transmitting mode. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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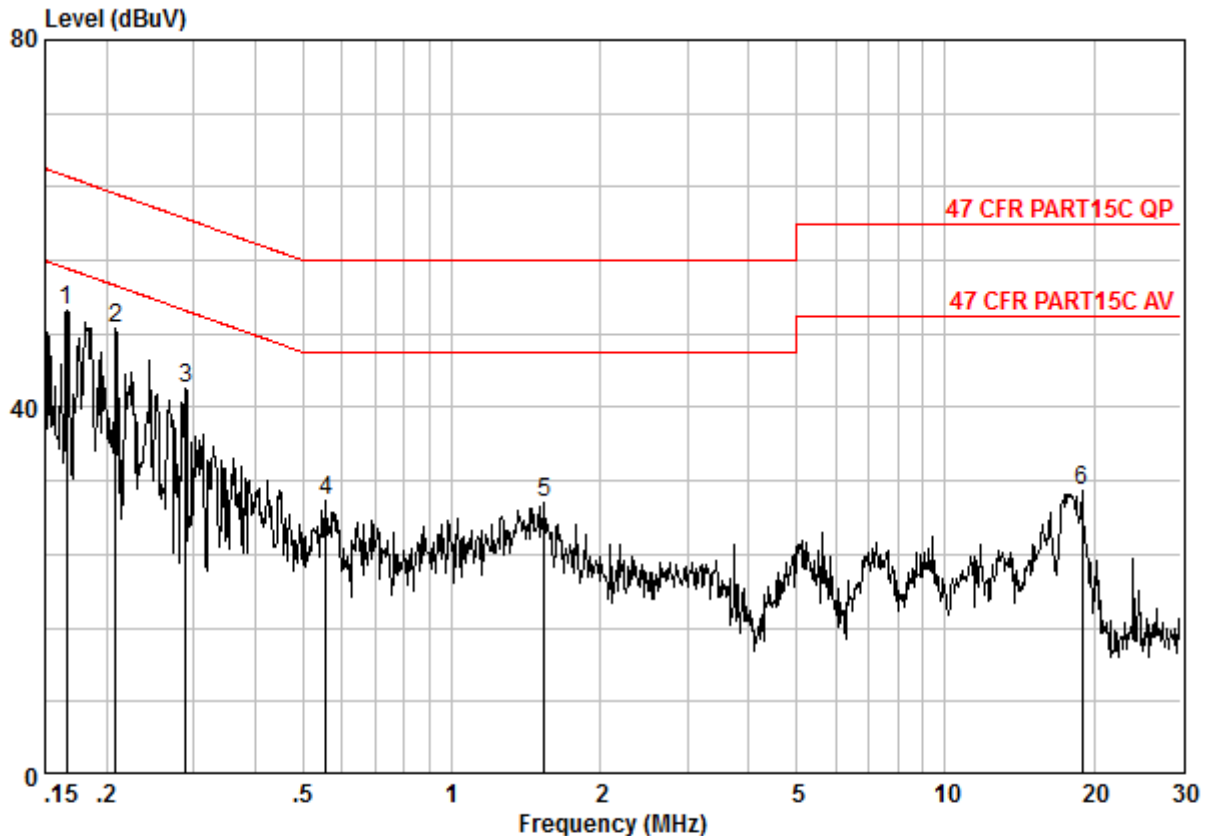
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

Live Line:



Site : Shielding Room
Condition : 47 CFR PART15C AV CE LINE
Job No. : 7647CR
Test Mode : Charge+TX

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.16589	0.02	9.60	40.99	50.61	55.16	-4.55	Peak
2 @	0.20833	0.02	9.60	38.93	48.55	53.27	-4.72	Peak
3 @	0.28935	0.01	9.59	32.43	42.03	50.54	-8.51	Peak
4 @	0.55520	0.01	9.60	20.23	29.84	46.00	-16.16	Peak
5	1.544	0.02	9.59	20.10	29.70	46.00	-16.30	Peak
6	18.920	0.02	9.78	21.11	30.90	50.00	-19.10	Peak

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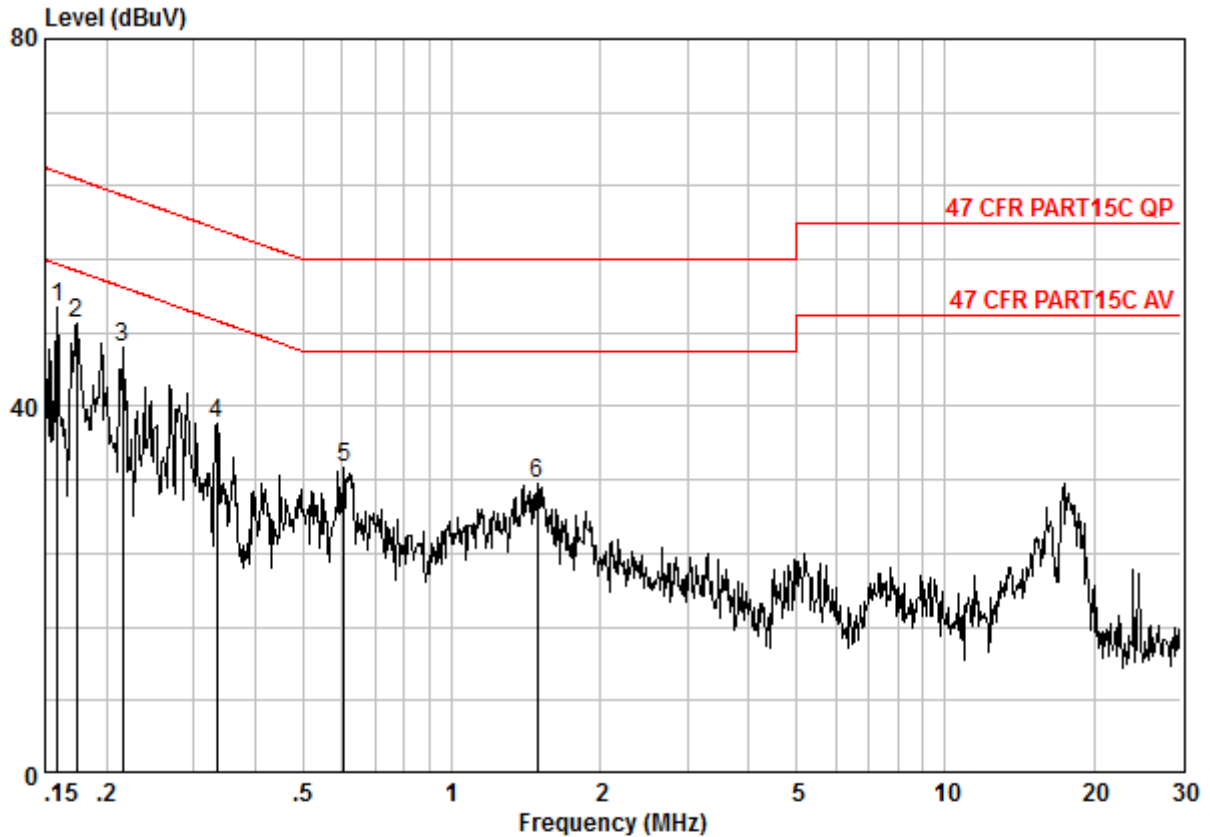


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Neutral Line:



Site : Shielding Room
Condition : 47 CFR PART15C AV CE NEUTRAL
Job No. : 7647CR
Test Mode : Charge+TX

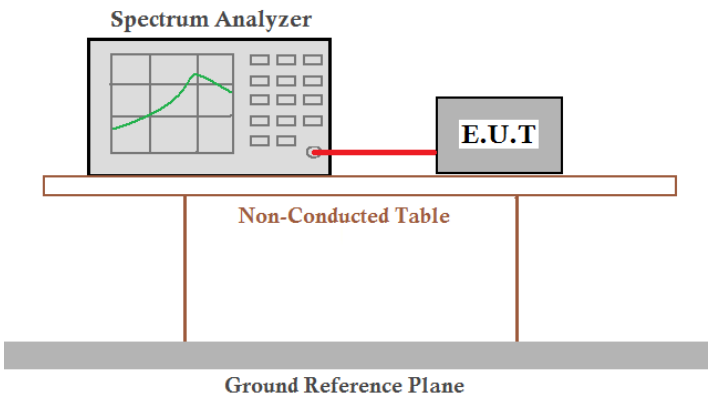
	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.15900	0.02	9.61	41.22	50.86	55.52	-4.66	Peak
2 @	0.17399	0.02	9.60	39.41	49.04	54.77	-5.73	Peak
3 @	0.21506	0.02	9.62	36.86	46.50	53.01	-6.51	Peak
4 @	0.33385	0.01	9.62	28.50	38.13	49.35	-11.23	Peak
5 @	0.60431	0.02	9.63	23.79	33.44	46.00	-12.56	Peak
6 @	1.487	0.02	9.64	21.93	31.59	46.00	-14.41	Peak

Notes:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.

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6.3 Conducted Peak Output Power

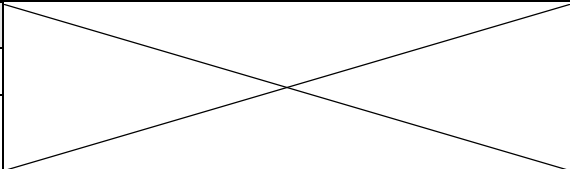
Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013 11.9
Test Setup:	 <i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	30dBm
Test Results:	Pass



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Pre-scan under all rate at Highest channel 1								
Mode	802.11b							
Data Rate	1Mbps	2Mbps	5.5Mbps	11Mbps				
Power (dBm)	8.38	8.36	8.29	8.26				
Mode	802.11g							
Data Rate	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Power (dBm)	8.02	7.99	7.96	7.91	7.85	7.81	7.77	7.72
Mode	802.11n(HT20)							
Data Rate	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Power (dBm)	8.25	8.21	8.18	8.16	8.12	8.10	8.05	8.02
Mode	802.11n(HT40)							
Data Rate	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Power (dBm)	8.11	8.08	8.03	8.01	7.95	7.91	7.88	7.84
Through Pre-scan, 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).								



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Measurement Data

802.11b mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.03	30.00	Pass
Middle	8.05	30.00	Pass
Highest	8.38	30.00	Pass
802.11g mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	7.53	30.00	Pass
Middle	7.46	30.00	Pass
Highest	8.02	30.00	Pass
802.11n(HT20)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.13	30.00	Pass
Middle	8.06	30.00	Pass
Highest	8.25	30.00	Pass
802.11n(HT40)mode			
Test channel	Peak Output Power (dBm)	Limit (dBm)	Result
Lowest	8.01	30.00	Pass
Middle	8.08	30.00	Pass
Highest	8.11	30.00	Pass

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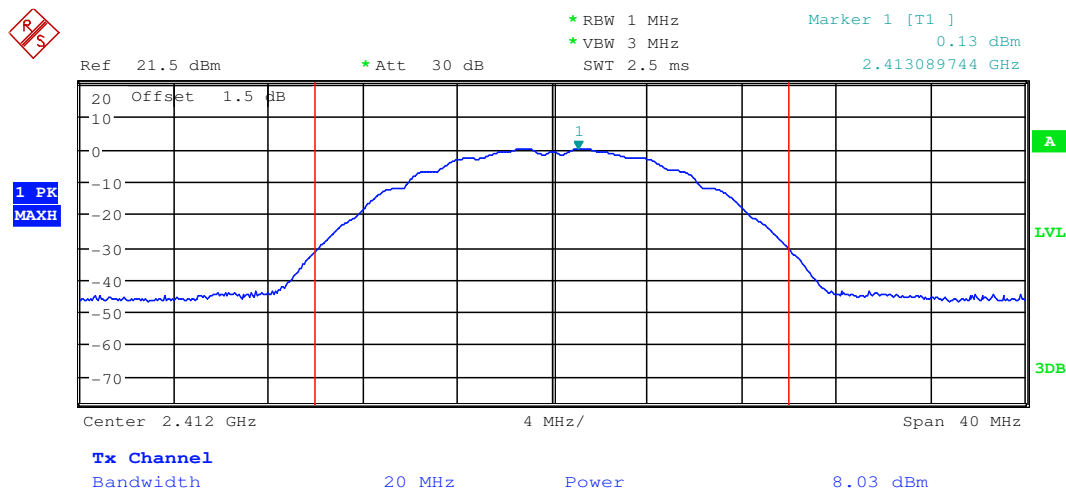
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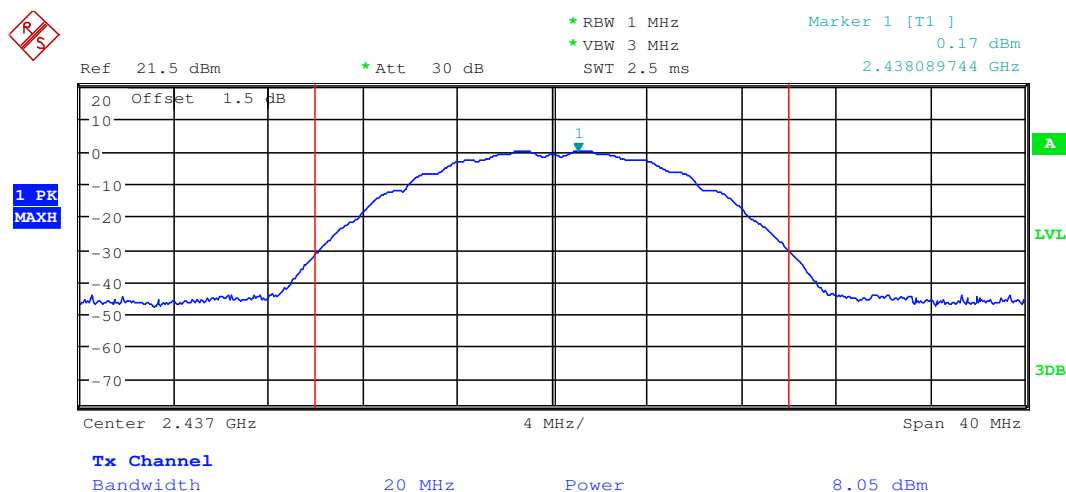
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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
------------	---------	---------------	--------



Test mode:	802.11b	Test channel:	Middle
------------	---------	---------------	--------



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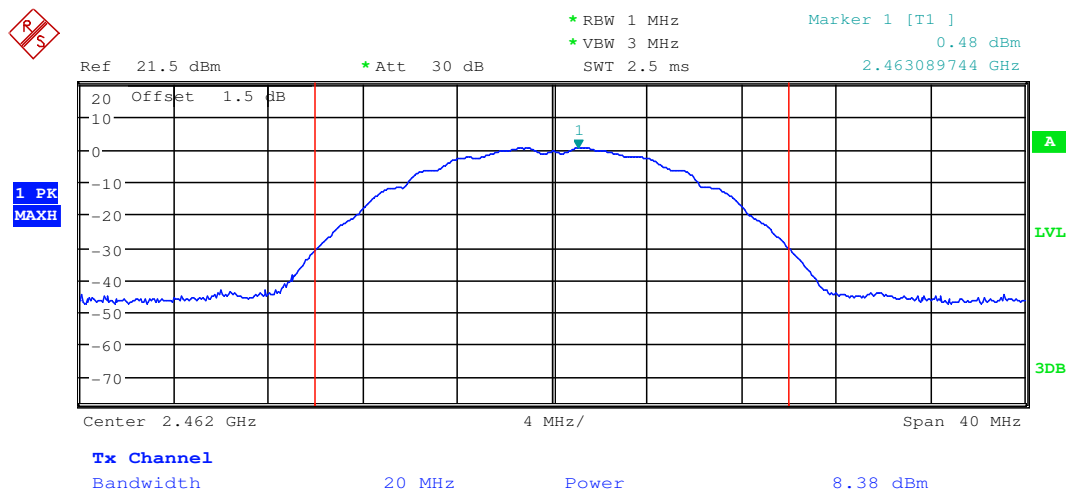


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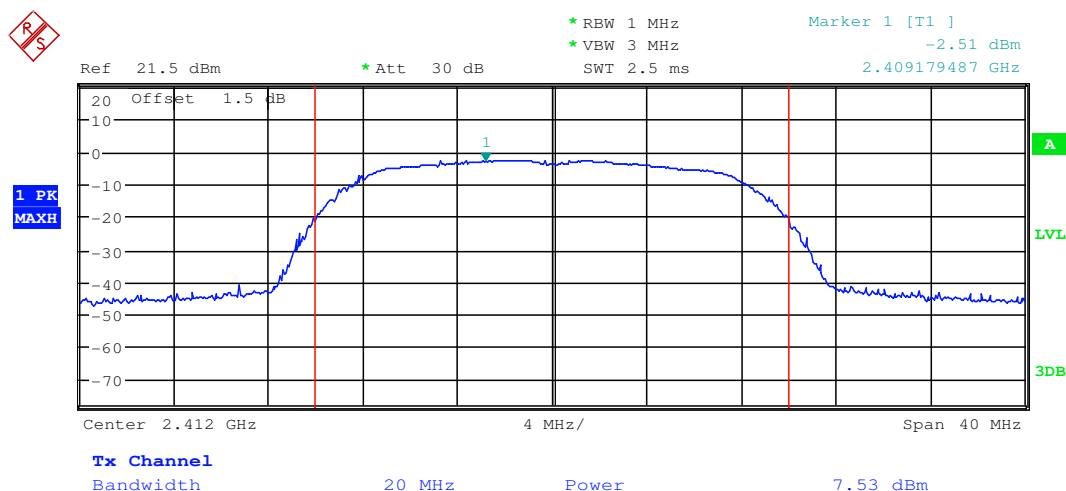
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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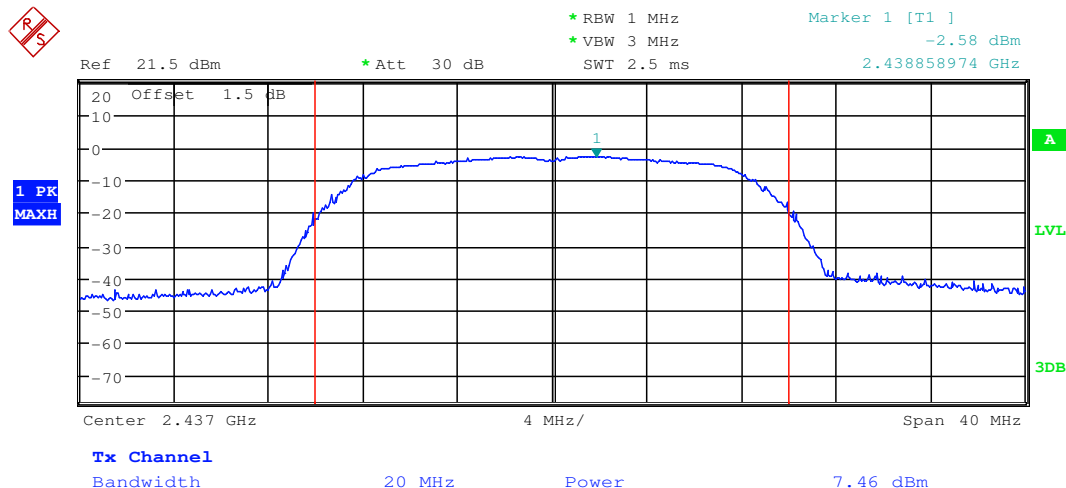


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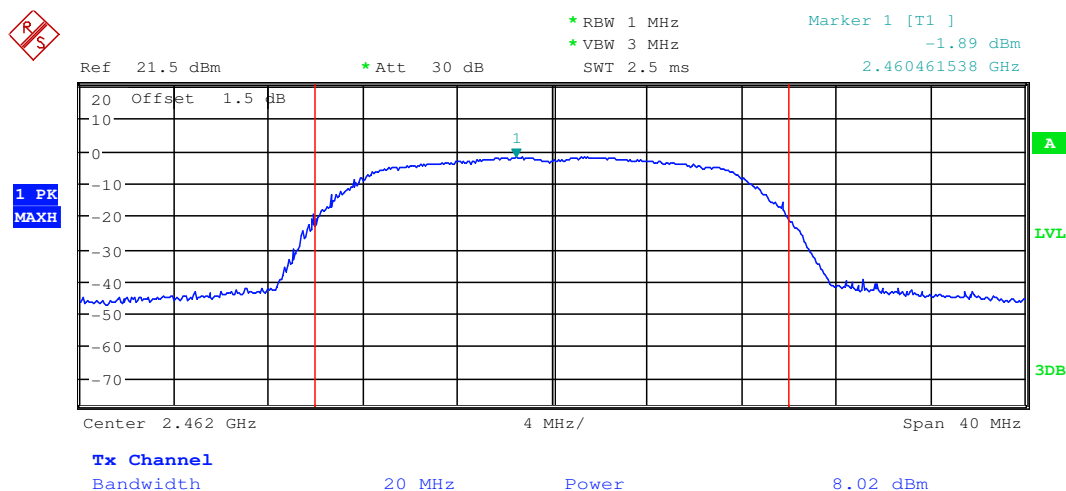
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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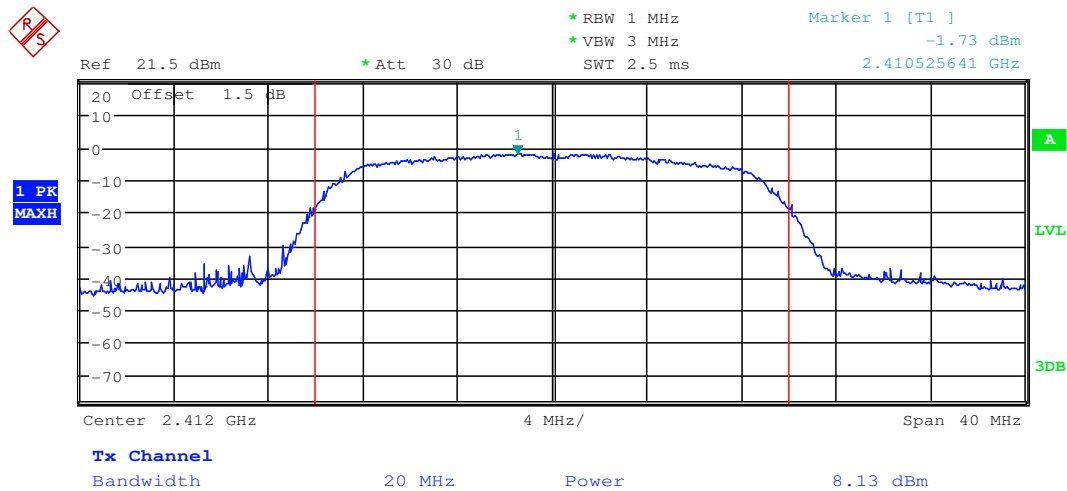


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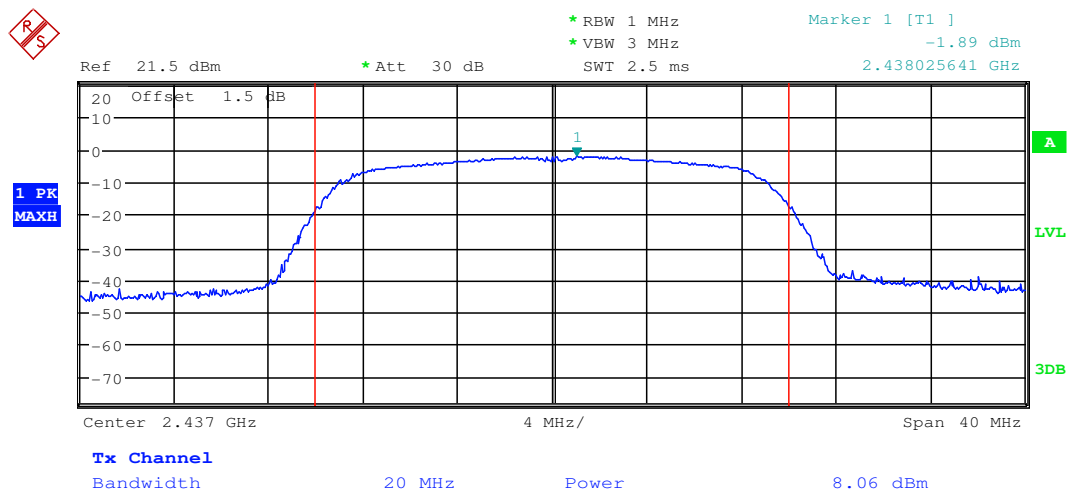
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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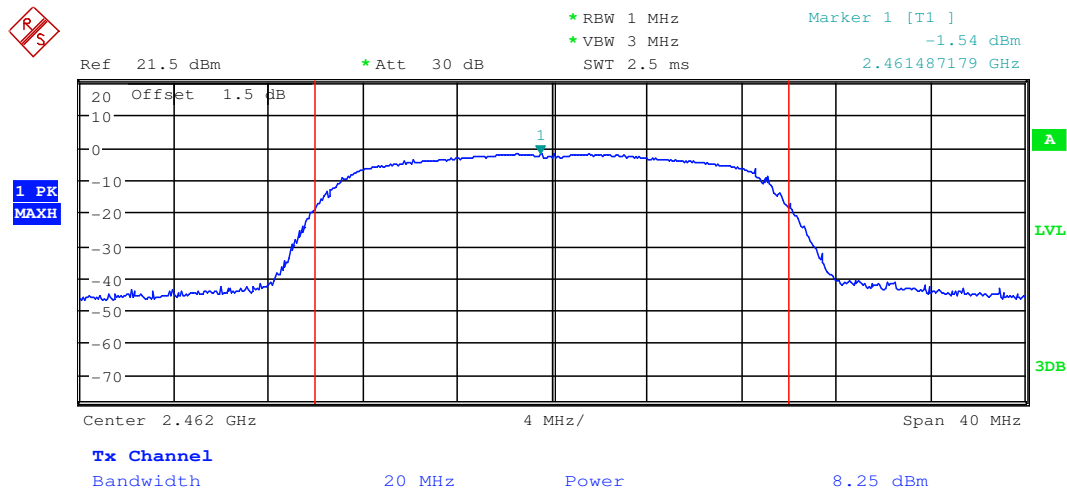


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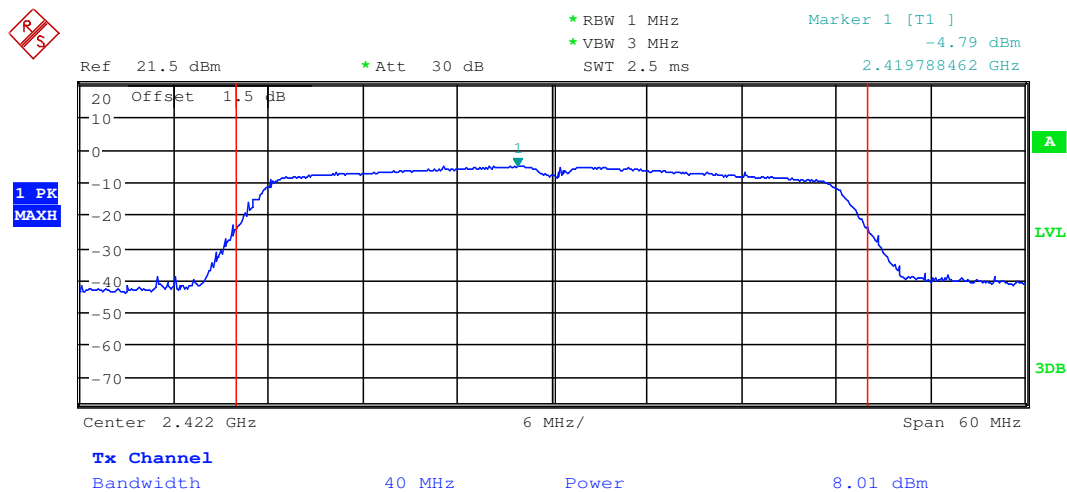
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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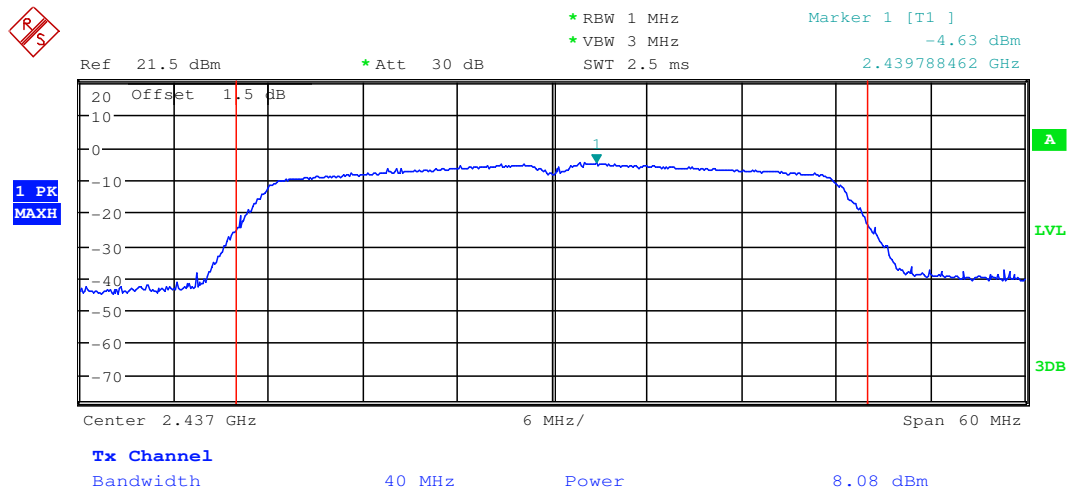


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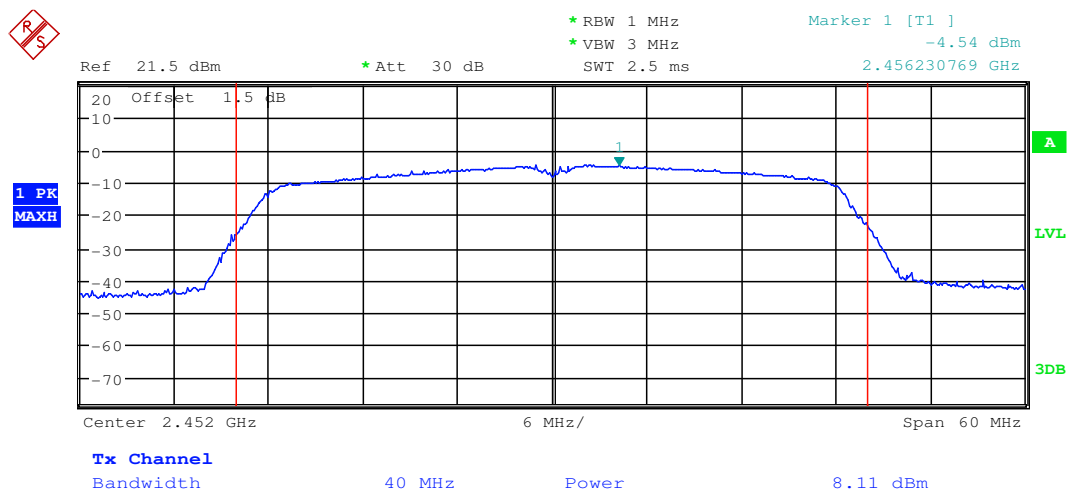
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Test mode:	802.11n(HT40)	Test channel:	Middle
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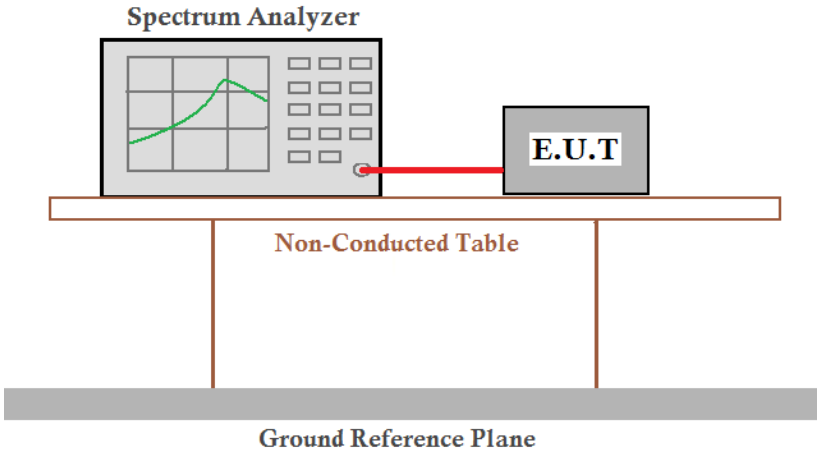
Test mode:	802.11n(HT40)	Test channel:	Highest
------------	---------------	---------------	---------



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6.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013 11.8
Test Setup:	 The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T (Equipment Under Test) via a red cable. Both the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.
Instruments Used:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	≥ 500 kHz
Test Results:	Pass



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Measurement Data

802.11b mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	10.11	≥500	Pass
Middle	10.14	≥500	Pass
Highest	10.14	≥500	Pass
802.11g mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	16.65	≥500	Pass
Middle	16.65	≥500	Pass
Highest	16.65	≥500	Pass
802.11n(HT20) mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	17.88	≥500	Pass
Middle	17.88	≥500	Pass
Highest	17.88	≥500	Pass
802.11n(HT40)mode			
Test channel	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
Lowest	36.60	≥500	Pass
Middle	36.60	≥500	Pass
Highest	36.60	≥500	Pass

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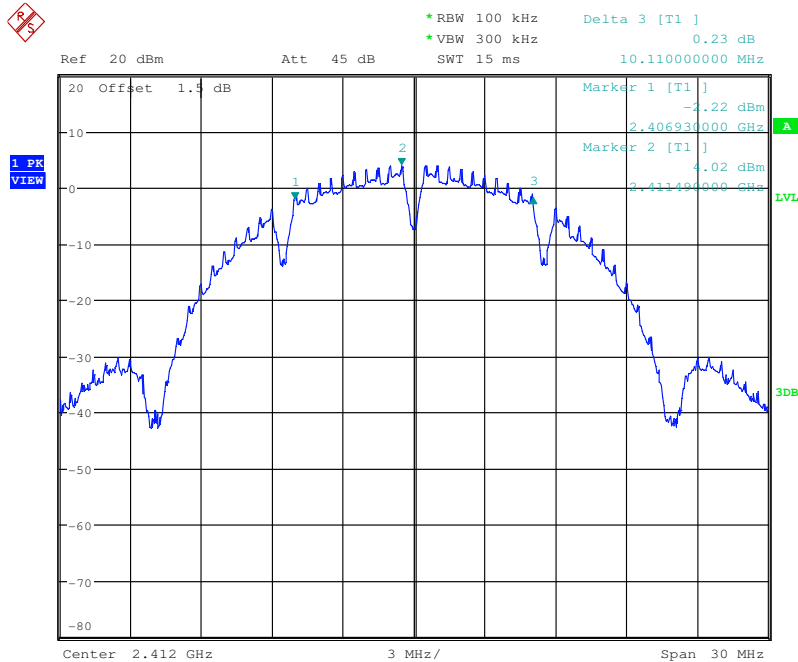
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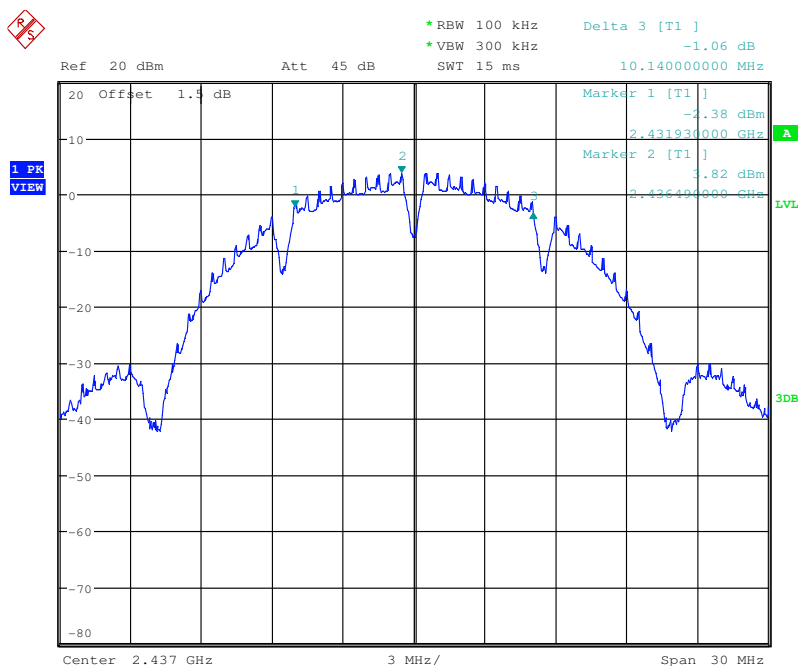
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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Middle
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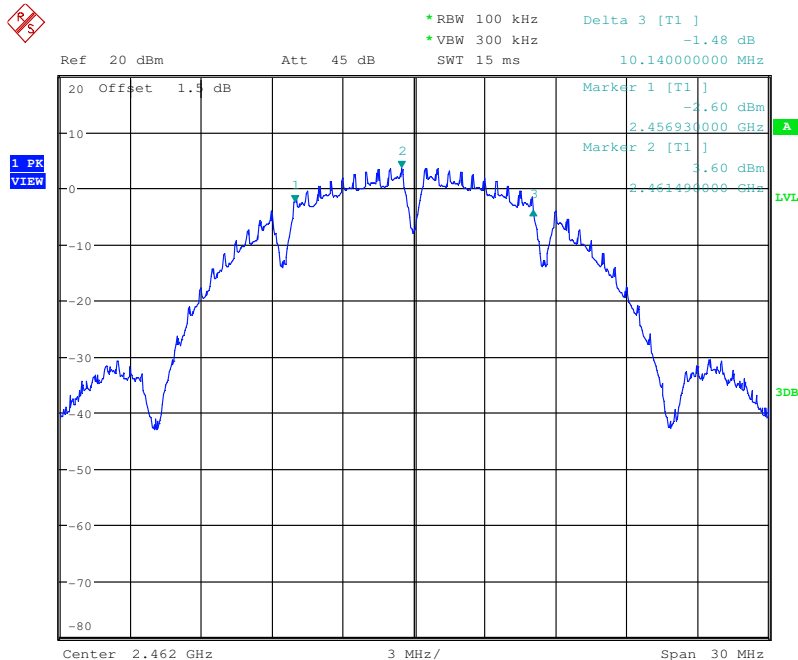


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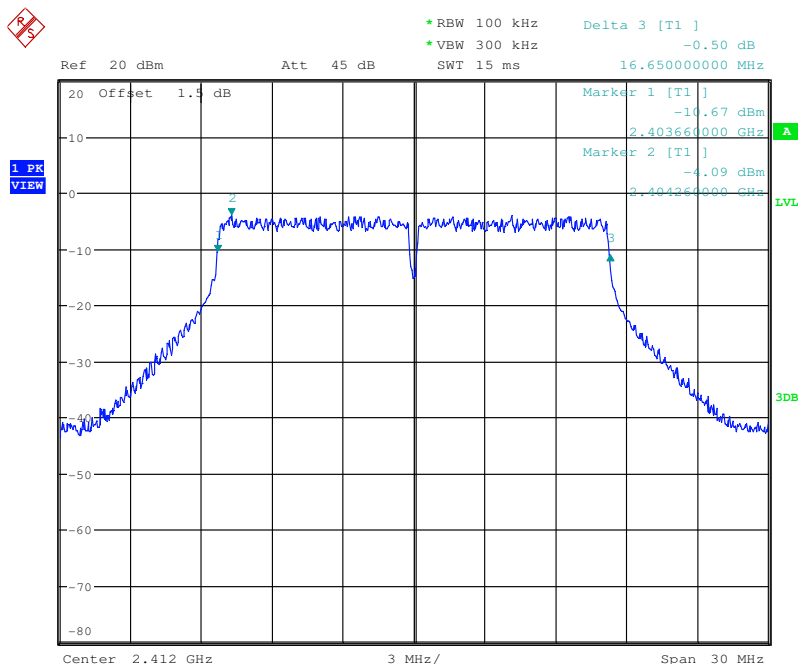
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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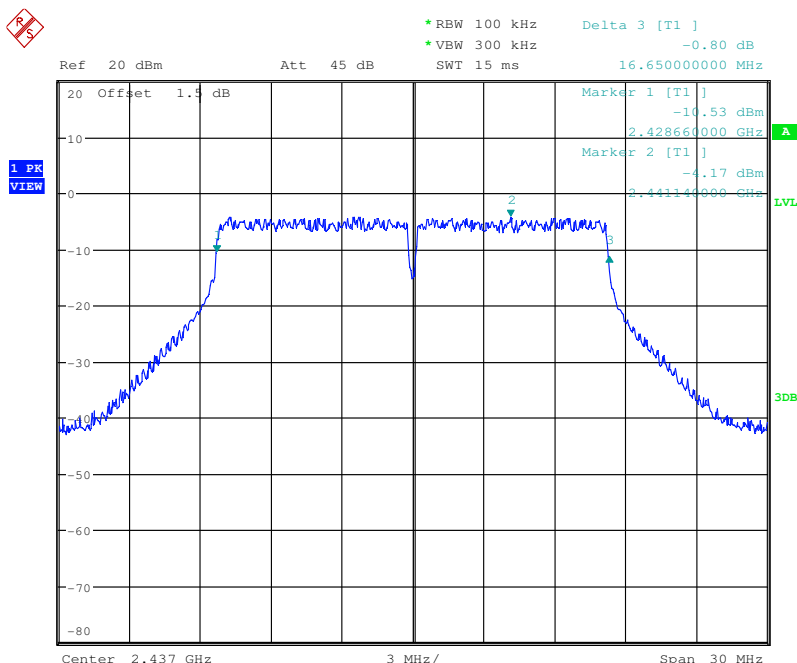
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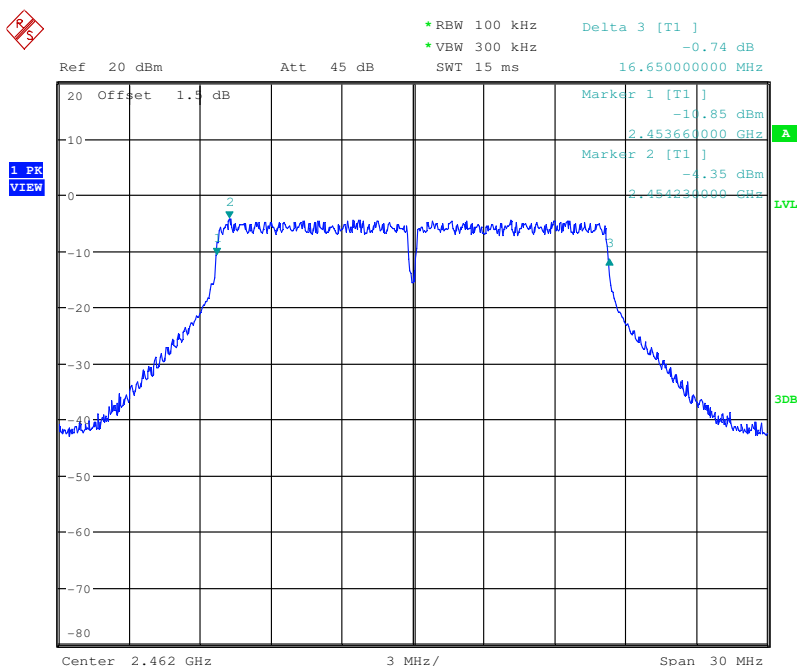
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
------------	---------	---------------	---------



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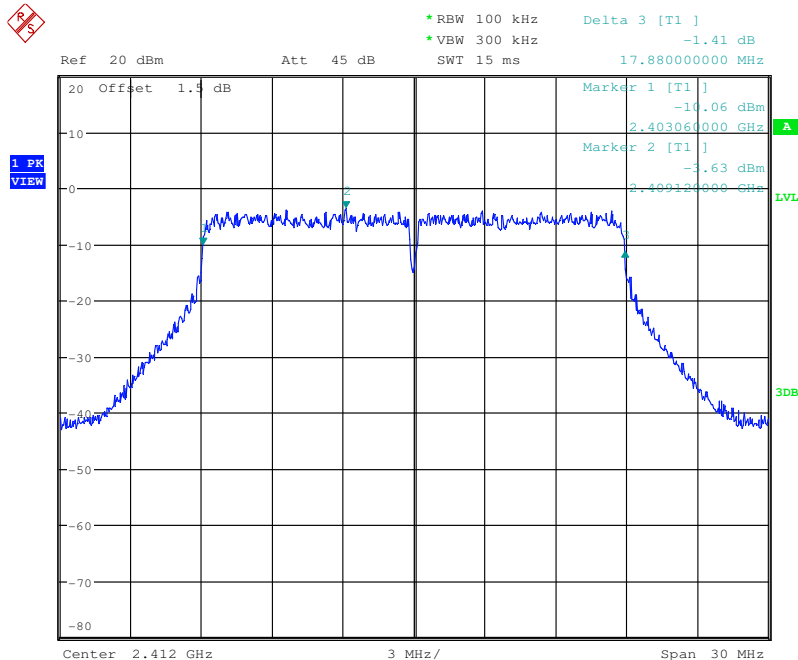


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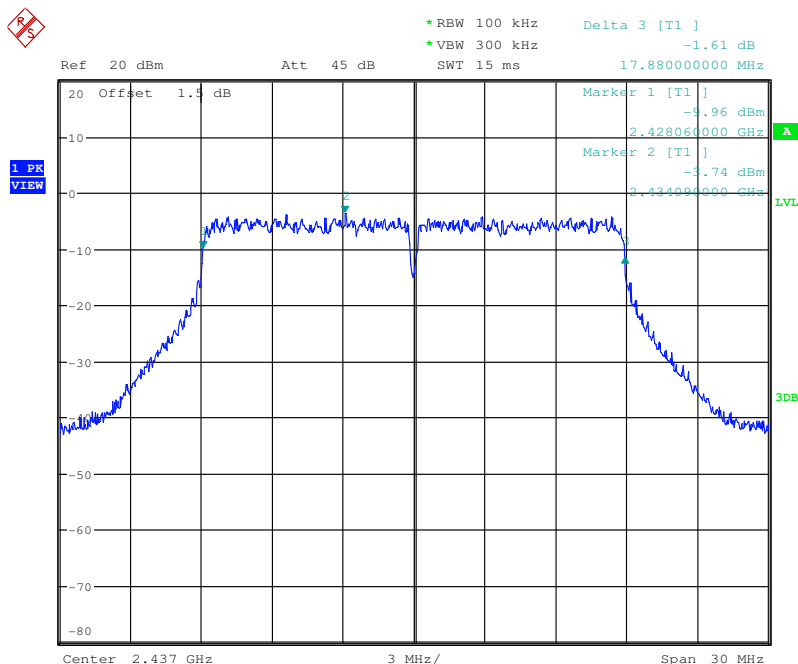
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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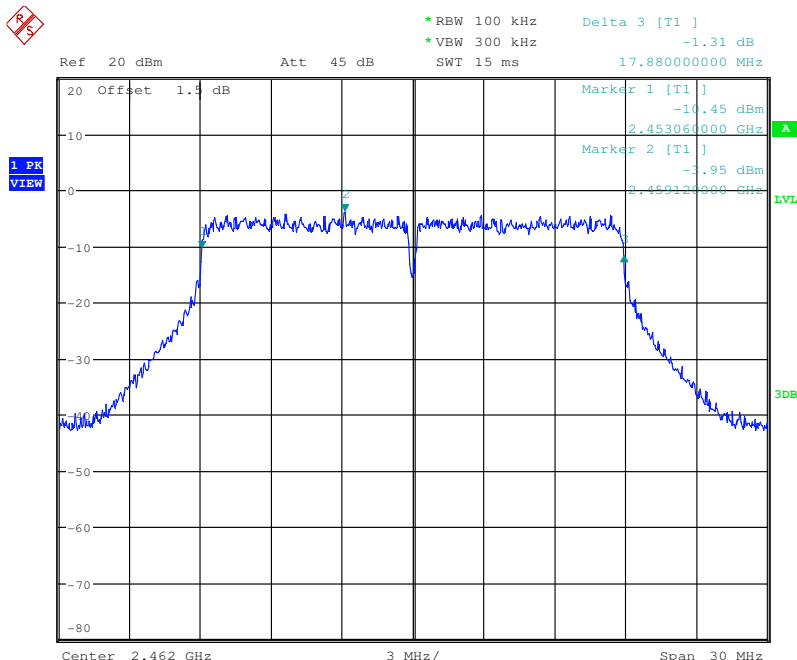


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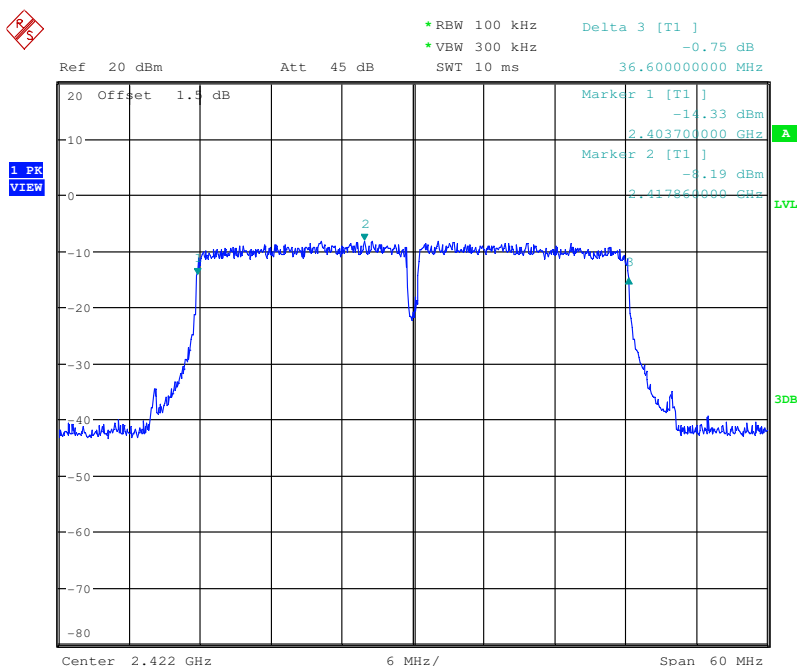
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
------------	---------------	---------------	--------



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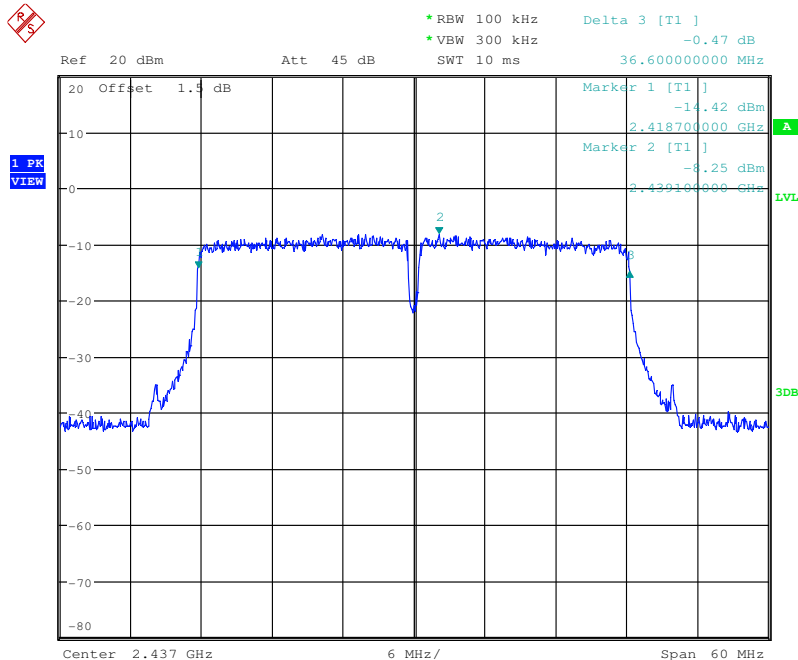


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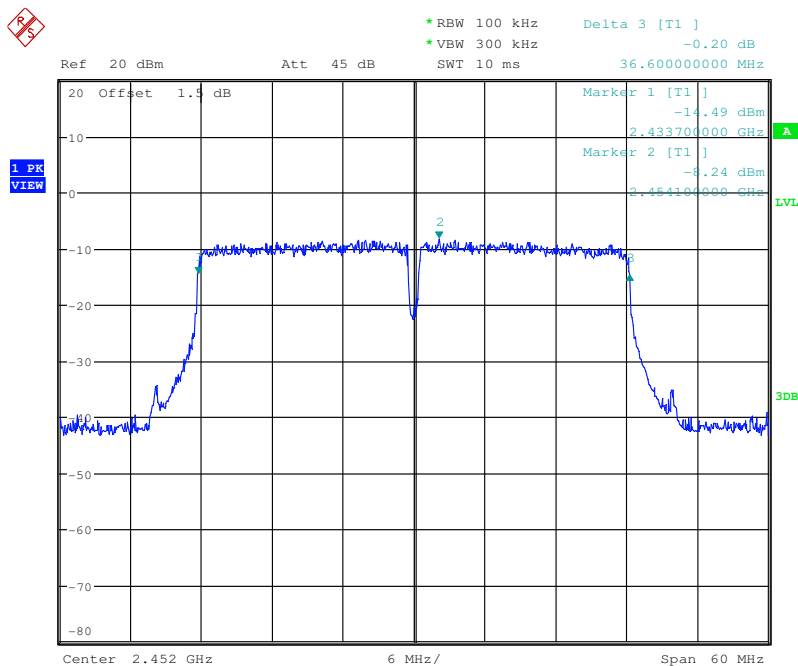
Report No.: SZEM151200764701

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Test mode:	802.11n(HT40)	Test channel:	Middle
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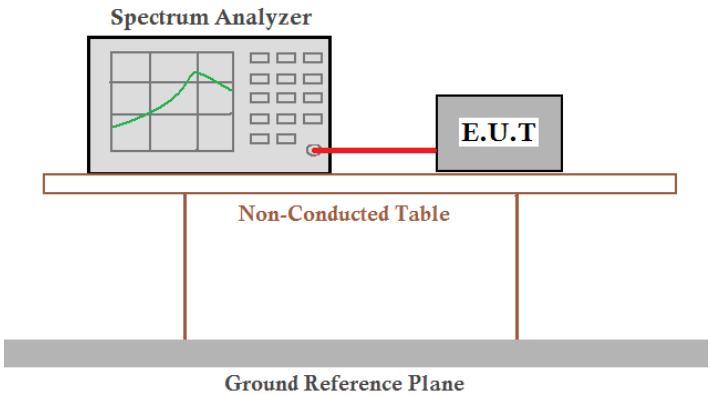


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	ANSI C63.10 2013 11.10
Test Setup:	 <i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Test Instruments:	Refer to section 5.10 for details
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	≤8.00dBm/3kHz
Test Results:	Pass



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Measurement Data

802.11b mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-15.98	≤8.00	Pass
Middle	-16.11	≤8.00	Pass
Highest	-16.36	≤8.00	Pass
802.11g mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-18.02	≤8.00	Pass
Middle	-18.22	≤8.00	Pass
Highest	-18.43	≤8.00	Pass
802.11n(HT20) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-18.02	≤8.00	Pass
Middle	-17.55	≤8.00	Pass
Highest	-17.47	≤8.00	Pass
802.11n(HT40) mode			
Test channel	Power Spectral Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
Lowest	-20.30	≤8.00	Pass
Middle	-18.84	≤8.00	Pass
Highest	-18.73	≤8.00	Pass

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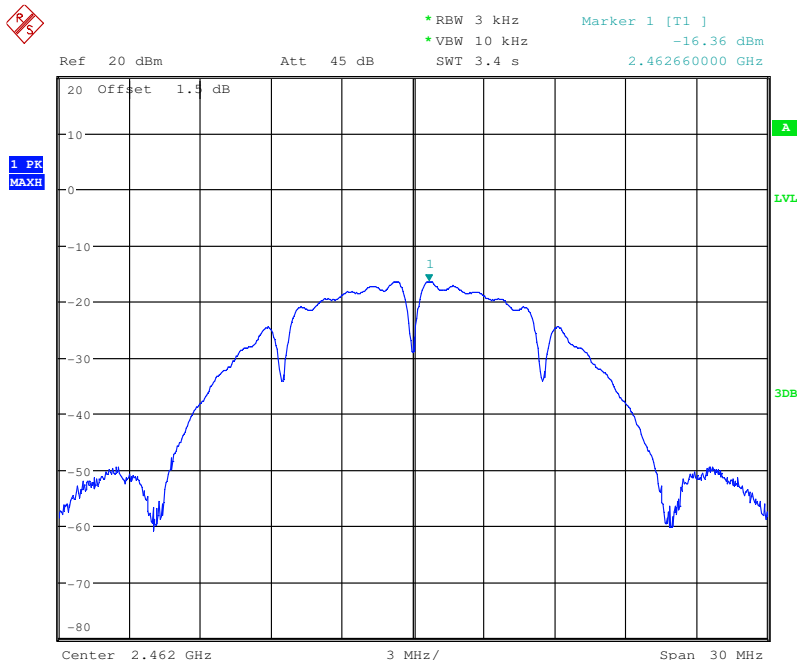


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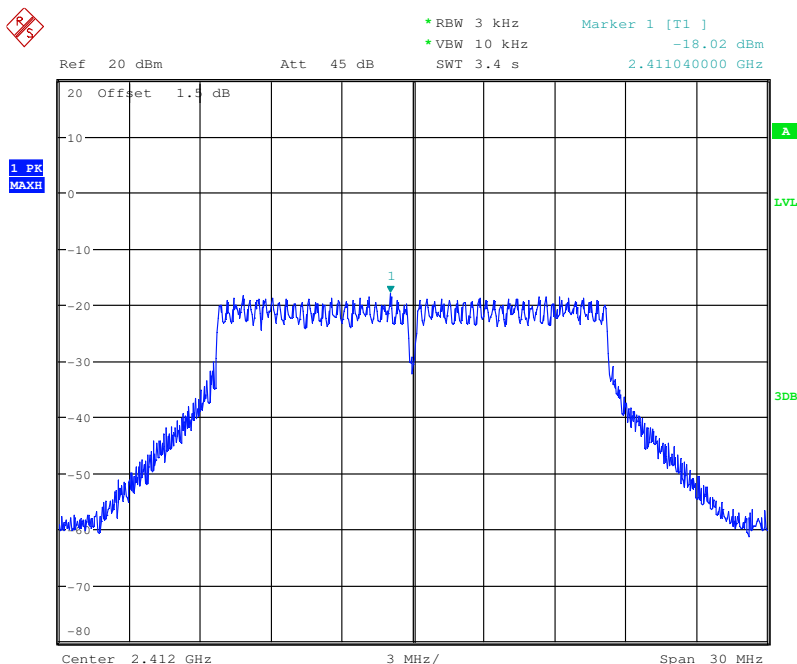
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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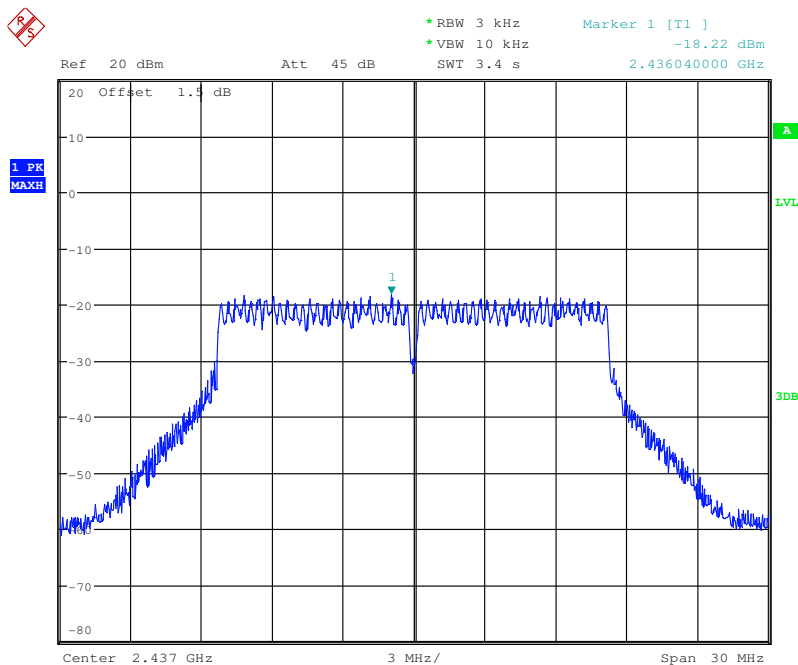


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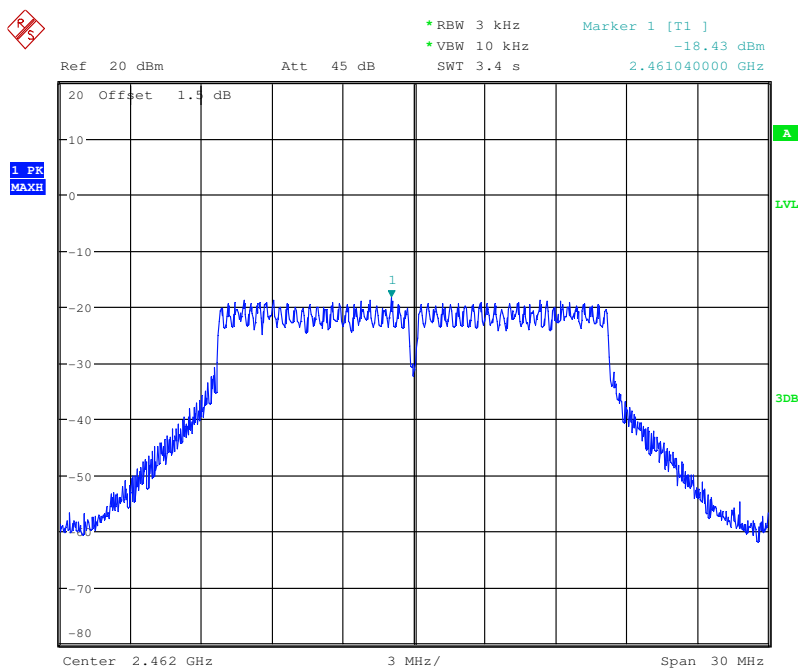
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Test mode:	802.11g	Test channel:	Middle
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Test mode:	802.11g	Test channel:	Highest
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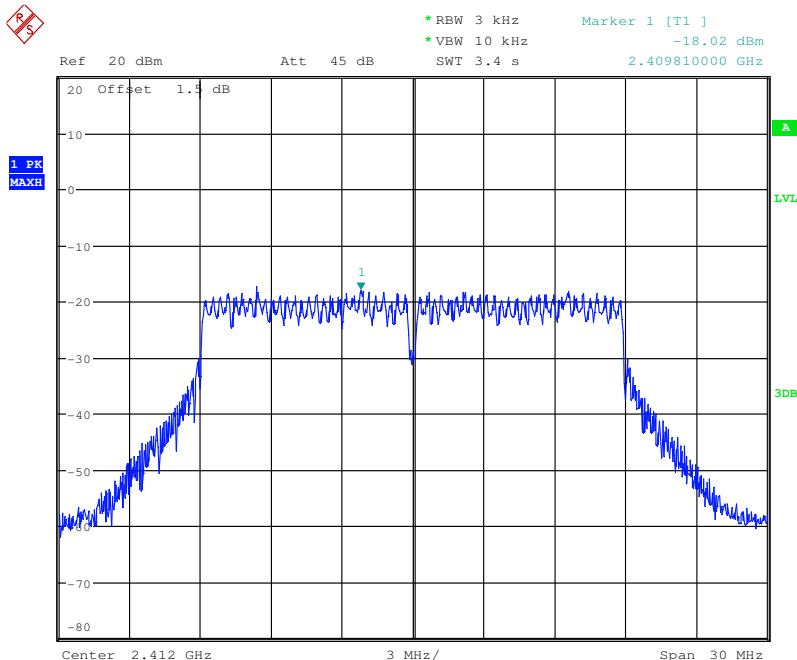


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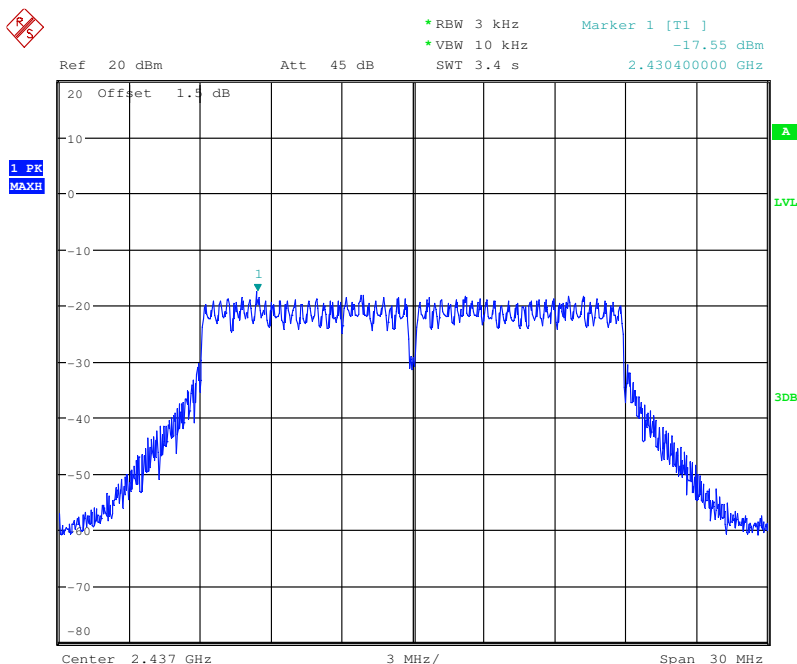
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Middle
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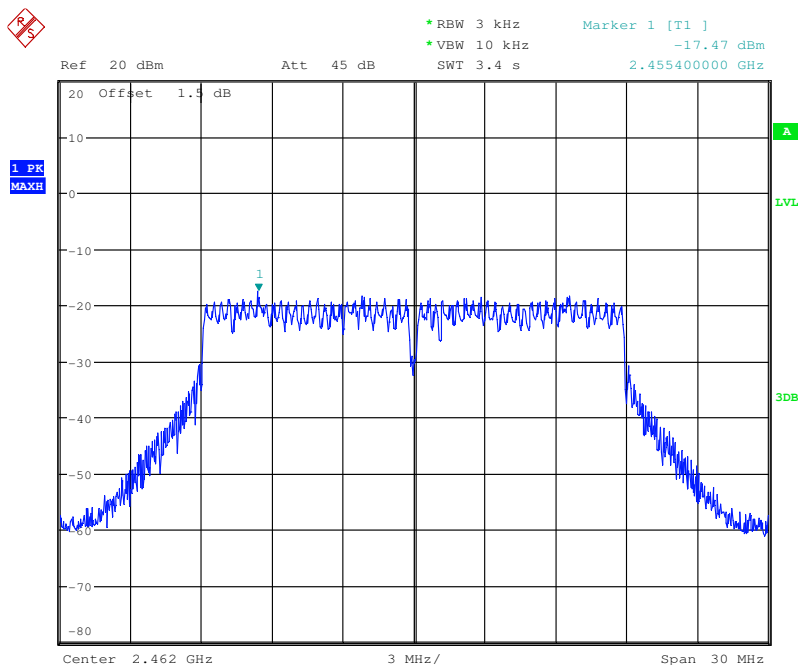


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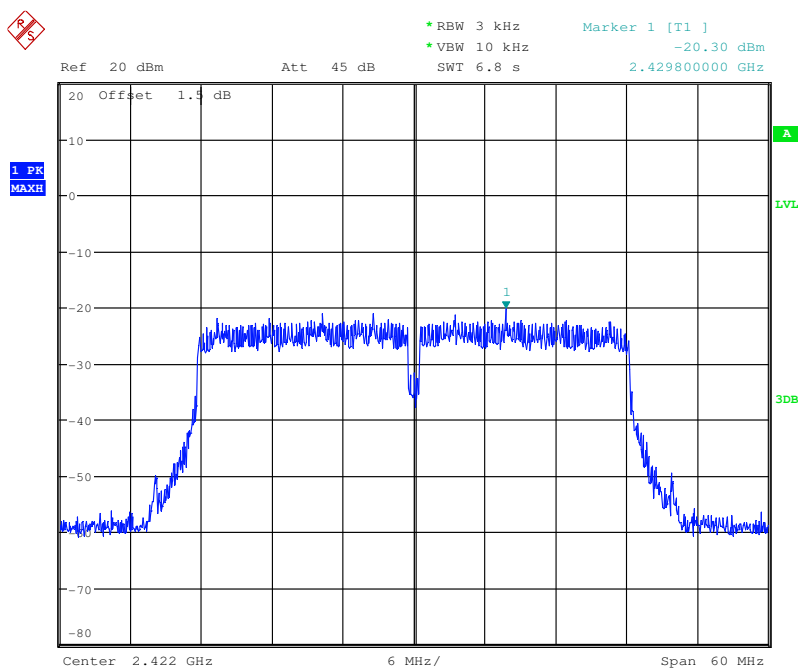
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Test mode:	802.11n(HT20)	Test channel:	Highest
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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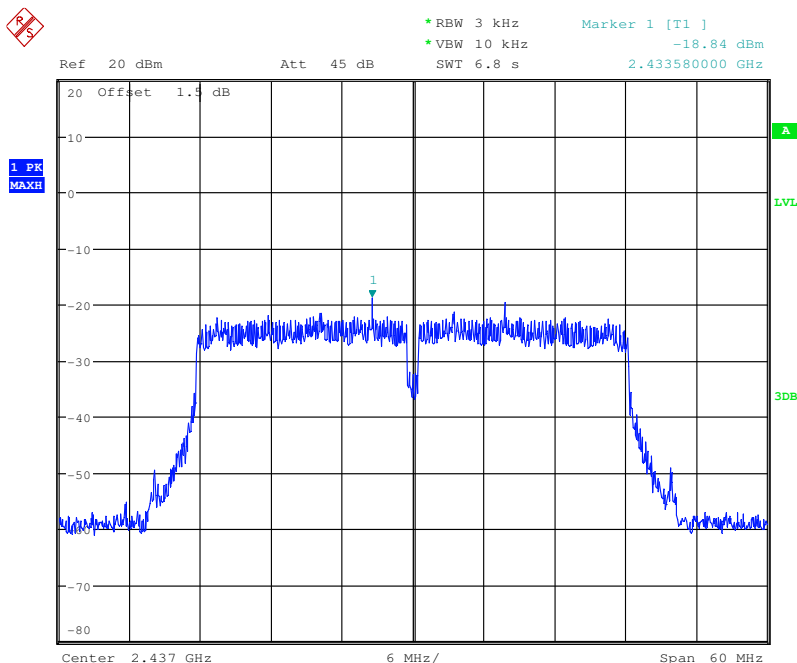


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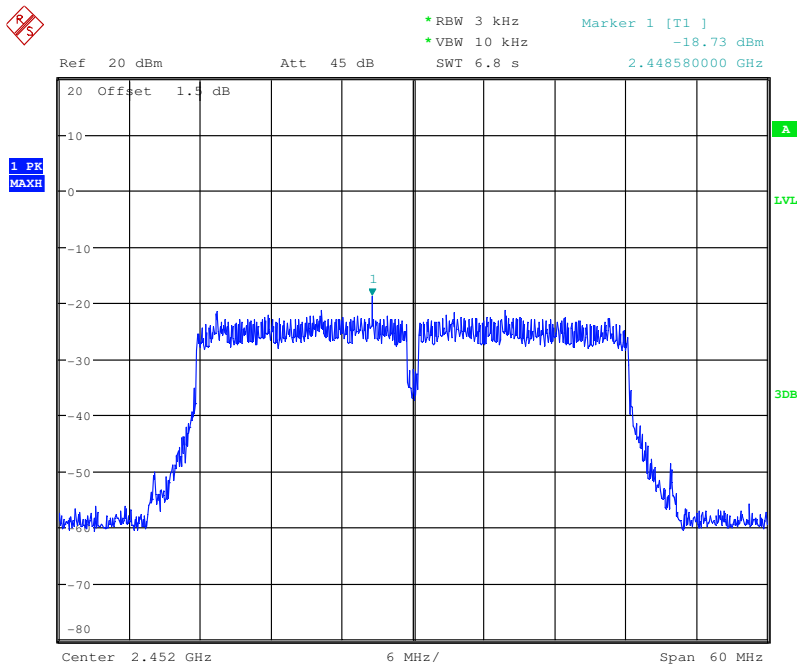
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Test mode:	802.11n(HT40)	Test channel:	Middle
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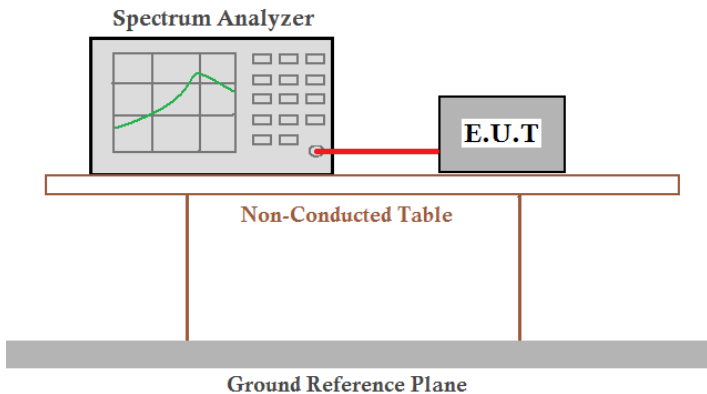
Test mode:	802.11n(HT40)	Test channel:	Highest
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6.6 Band-edge for RF Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013 11.13
Test Setup:	 <i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass





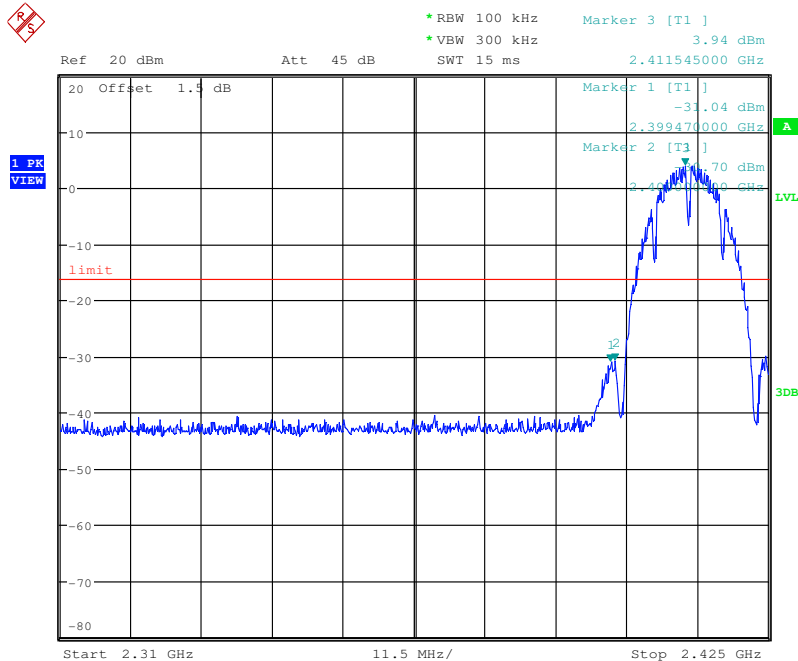
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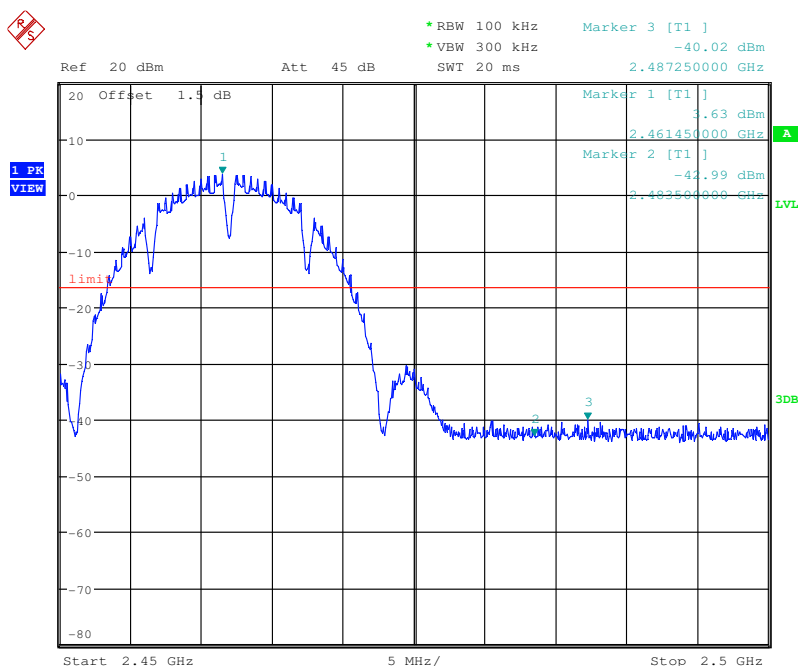
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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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Test mode:	802.11b	Test channel:	Highest
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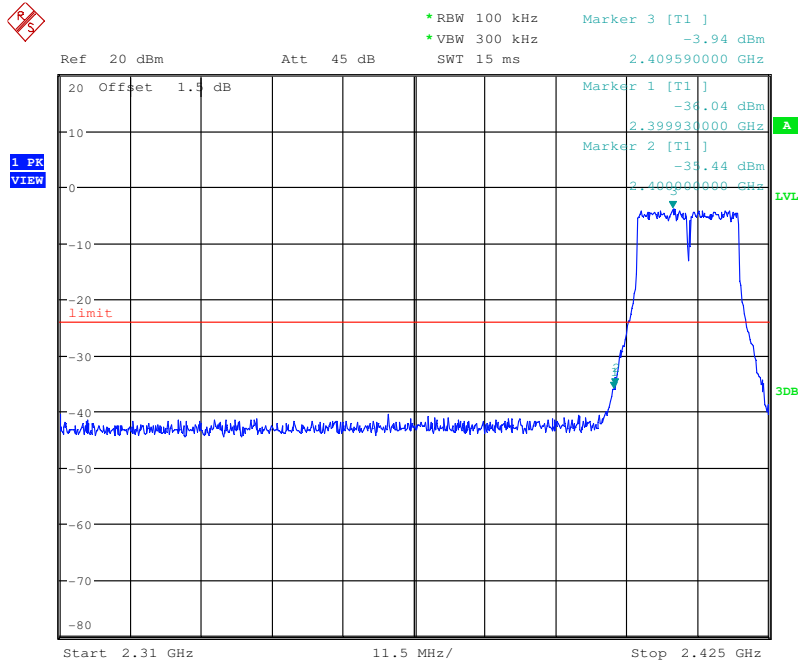


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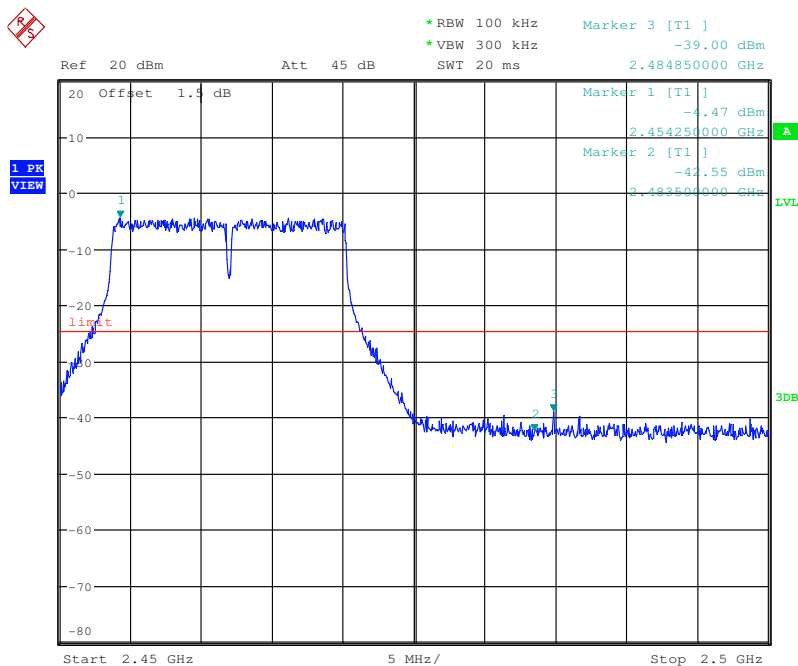
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Test mode:	802.11g	Test channel:	Lowest
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Test mode:	802.11g	Test channel:	Highest
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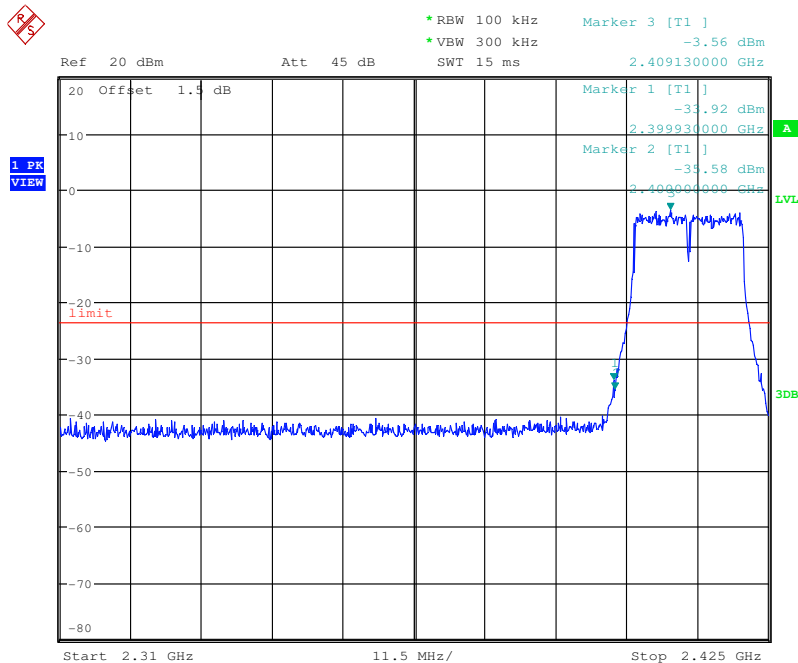


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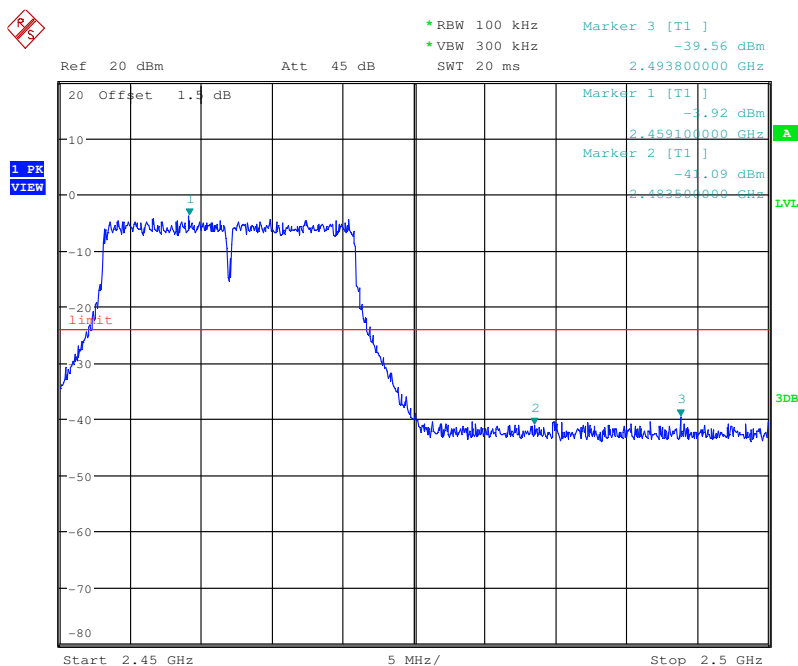
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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Test mode:	802.11n(HT20)	Test channel:	Highest
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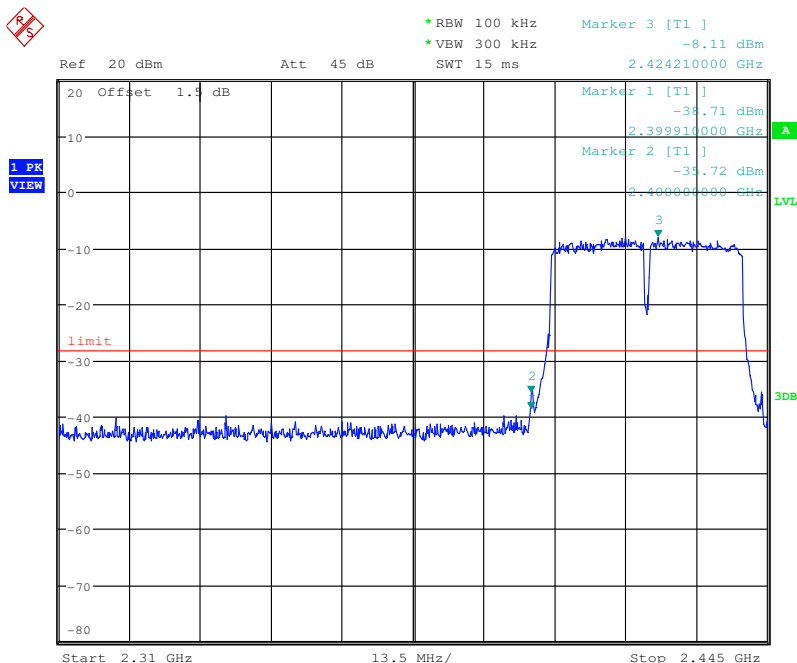


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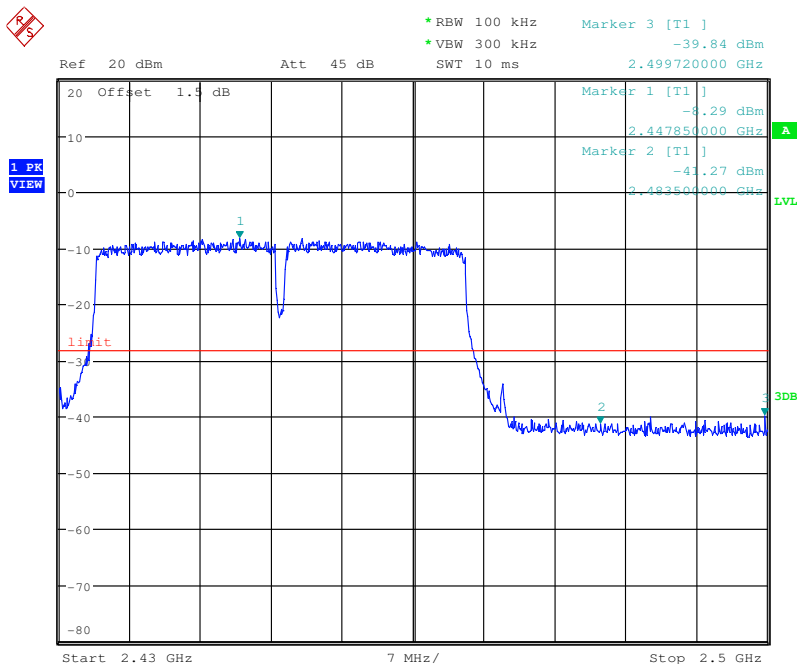
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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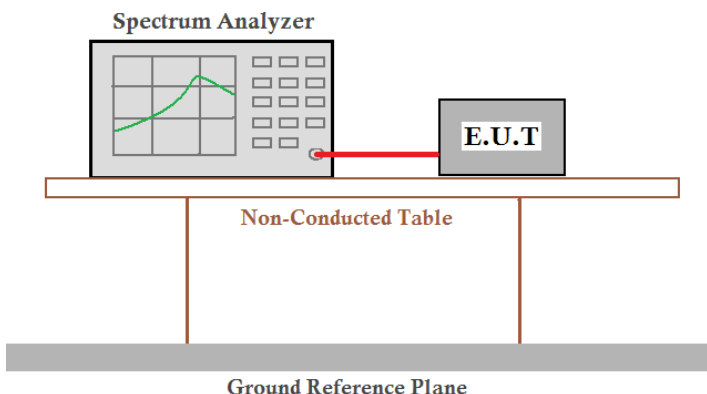


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.7 RF Conducted Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	ANSI C63.10 2013 11.11
Test Setup:	 <i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates
Final Test Mode:	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40)
Limit:	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



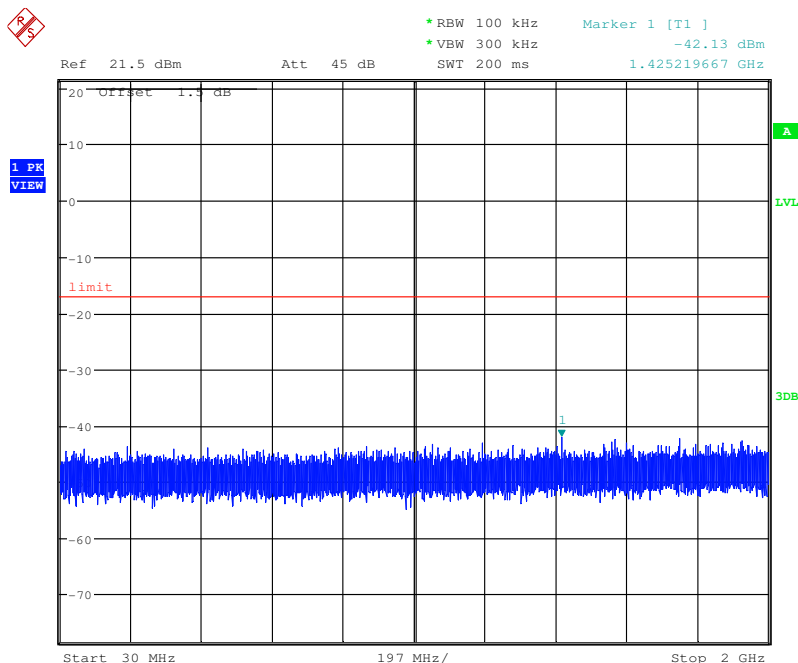
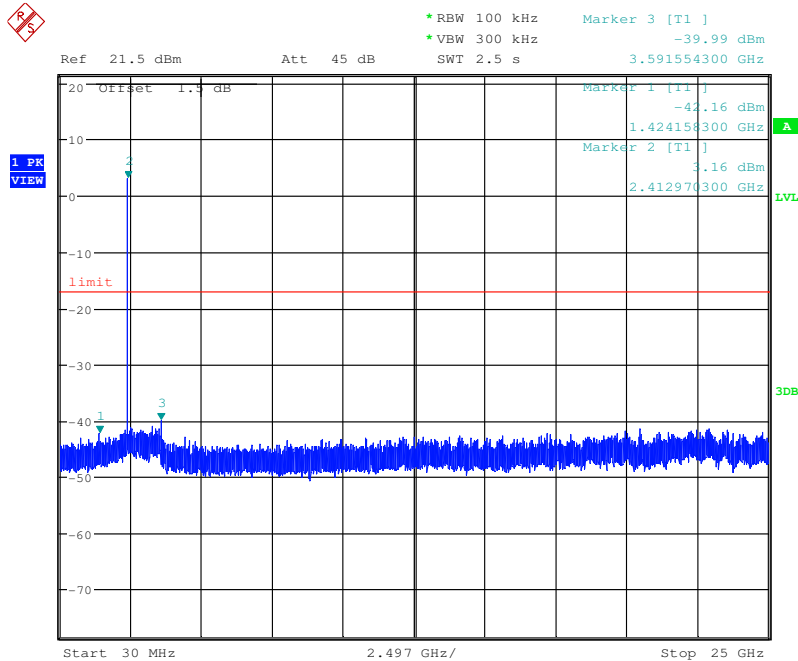
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Test plot as follows:

Test mode:	802.11b	Test channel:	Lowest
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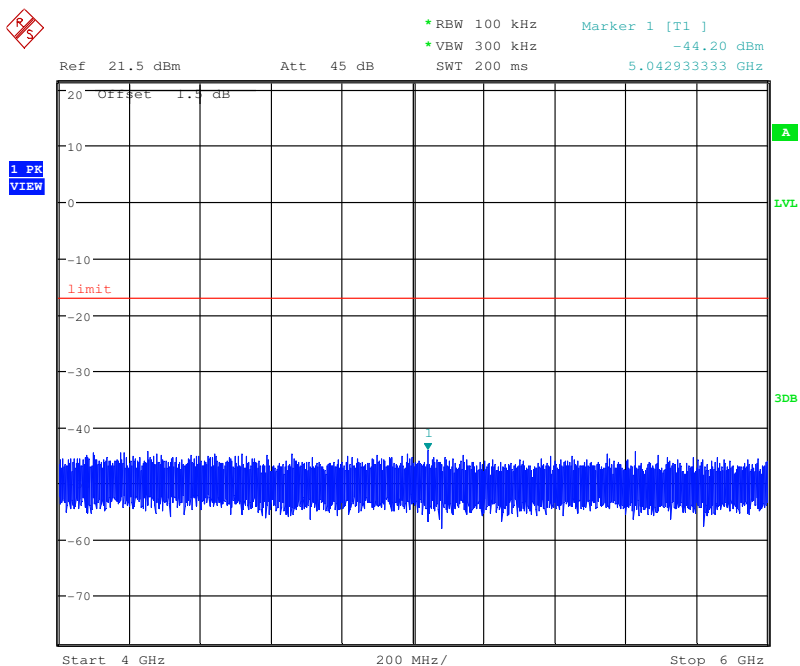
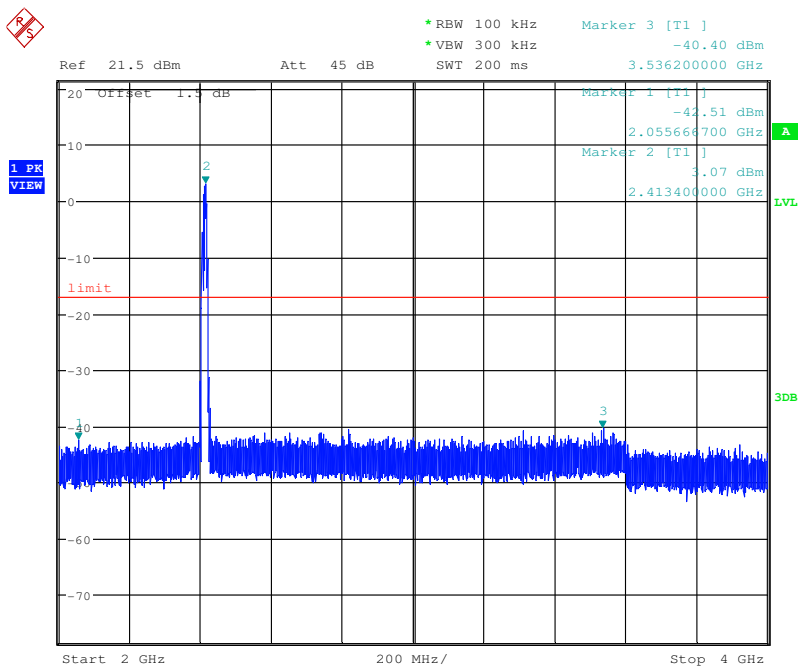
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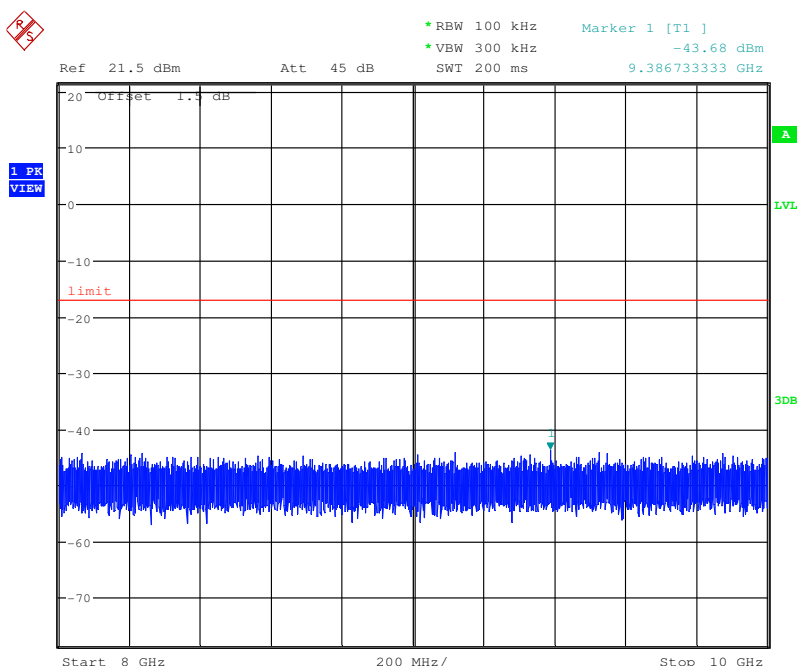
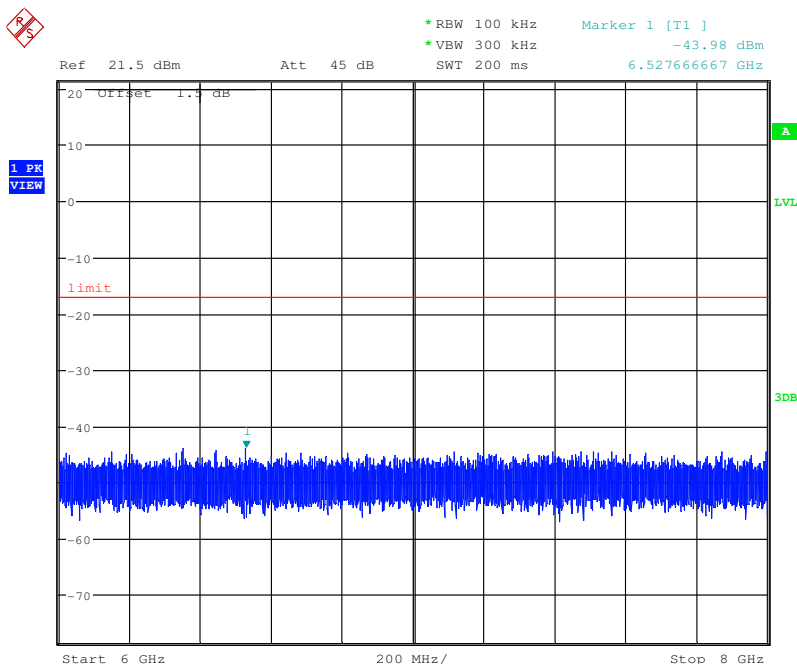
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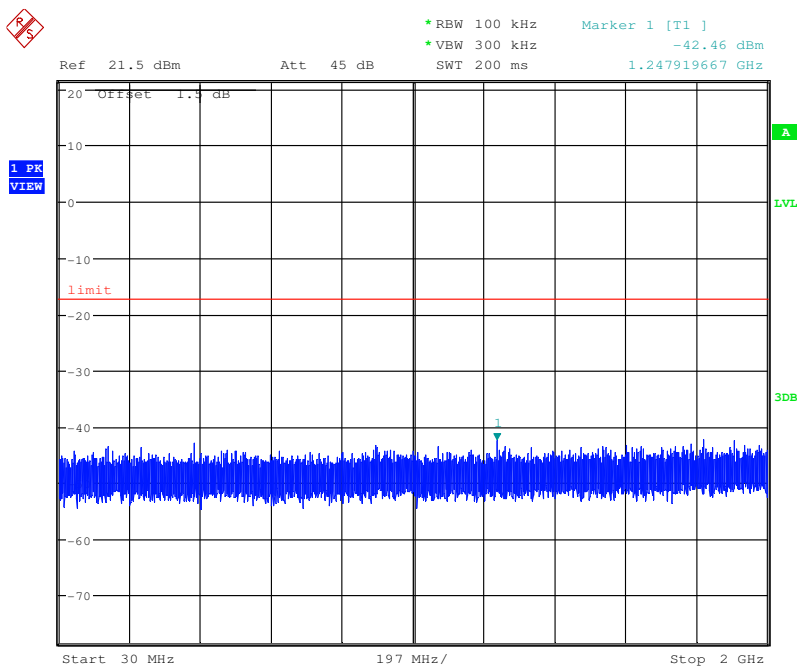
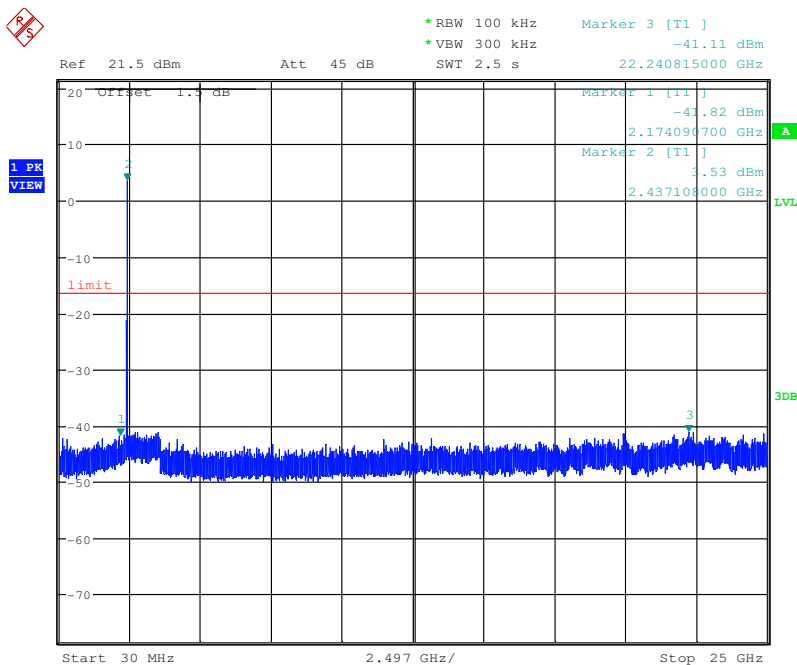


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Test mode:	802.11b	Test channel:	Middle
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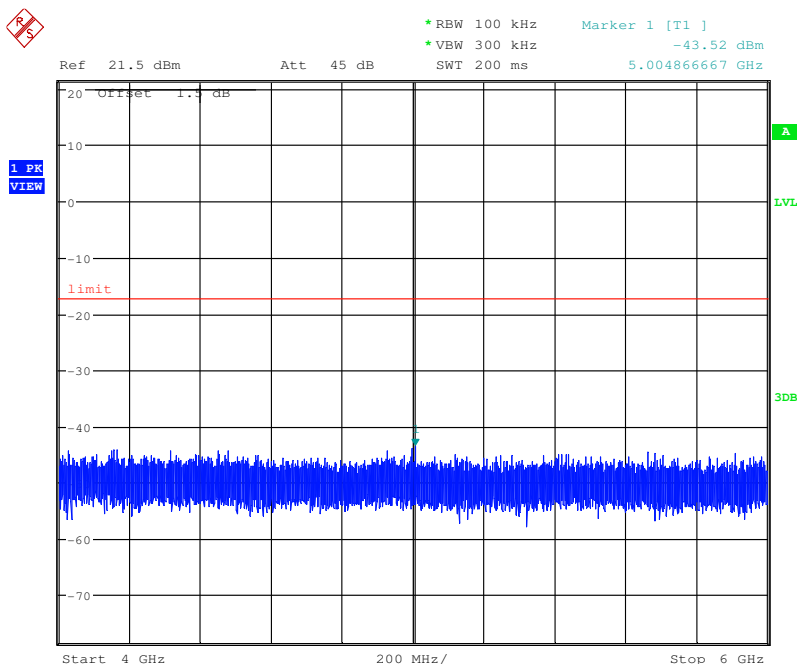
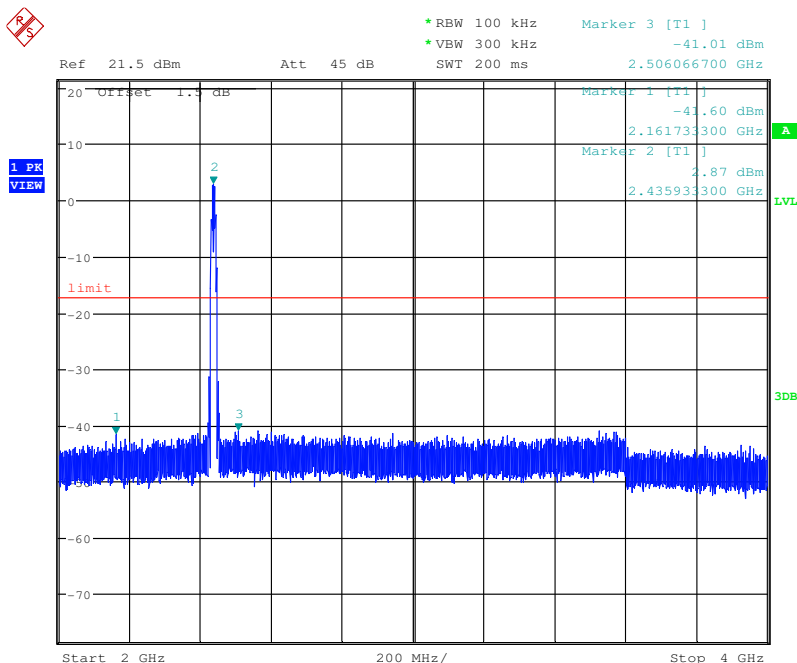
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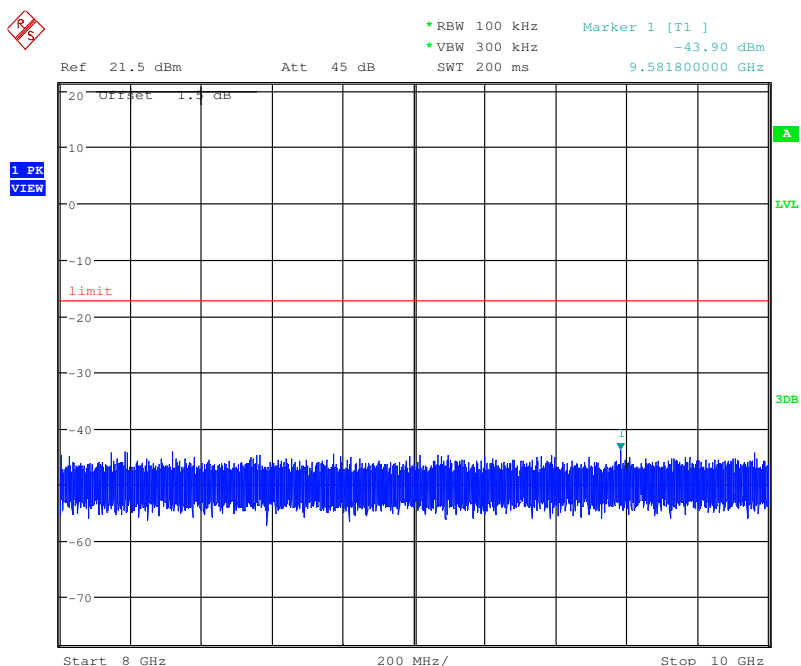
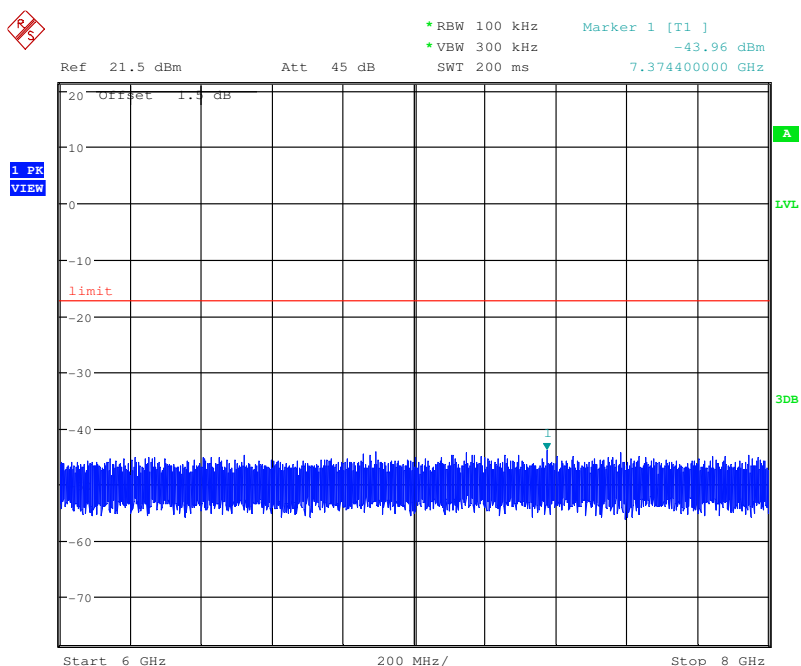
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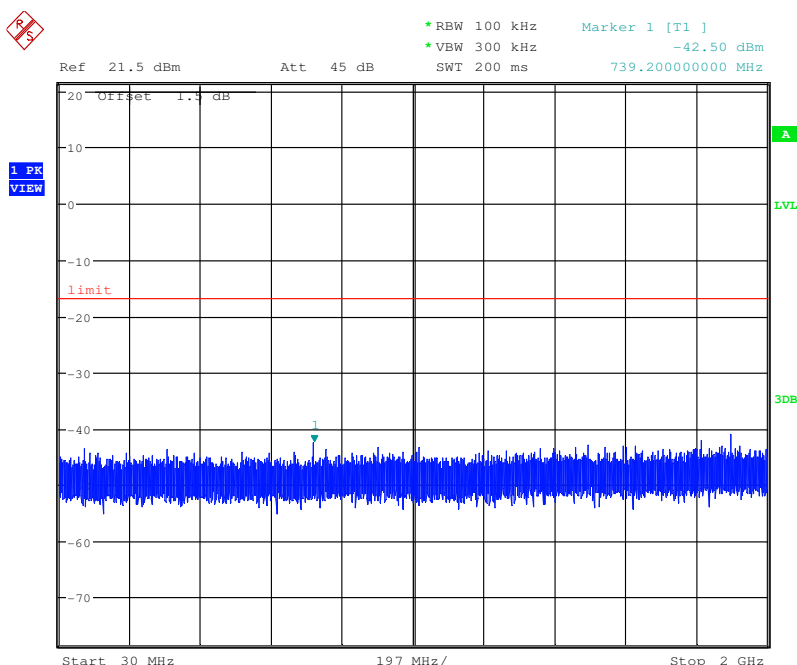
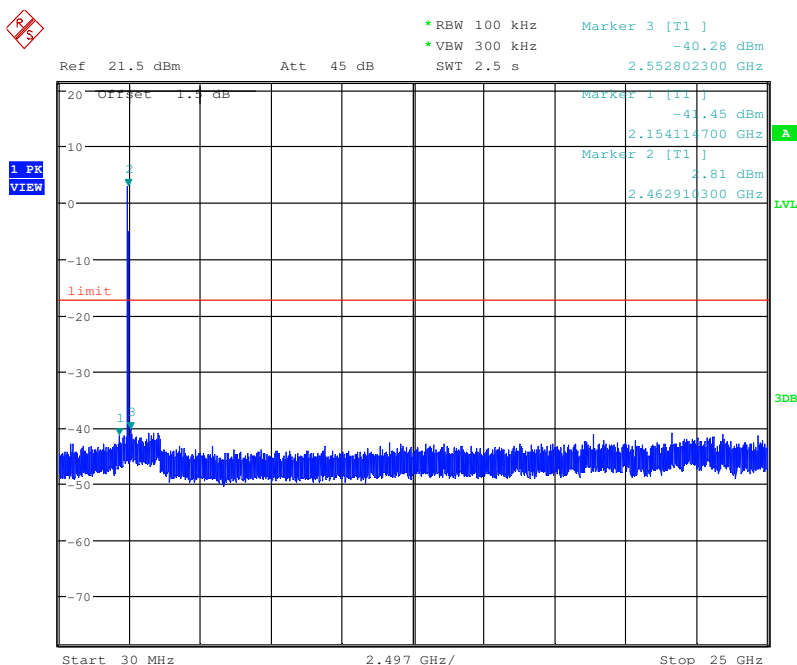


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Test mode:	802.11b	Test channel:	Highest
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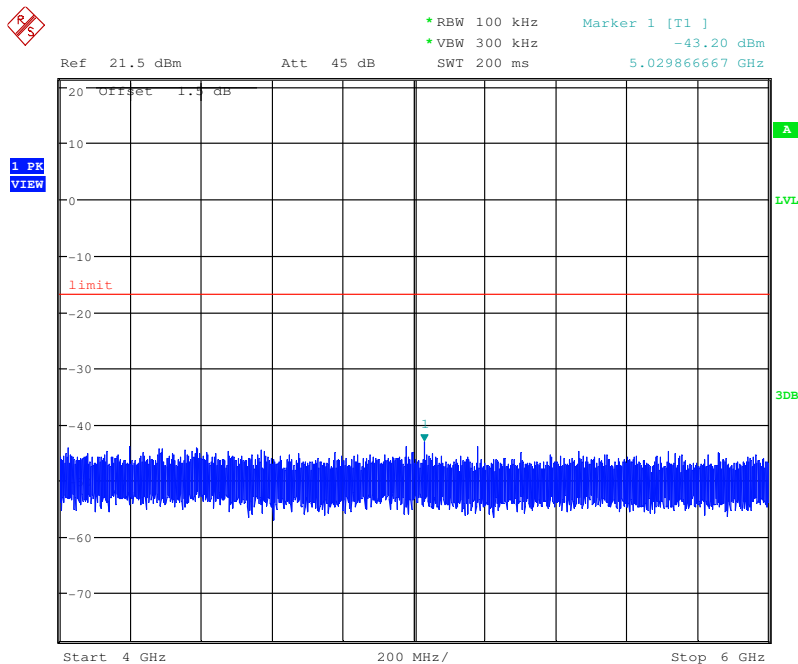
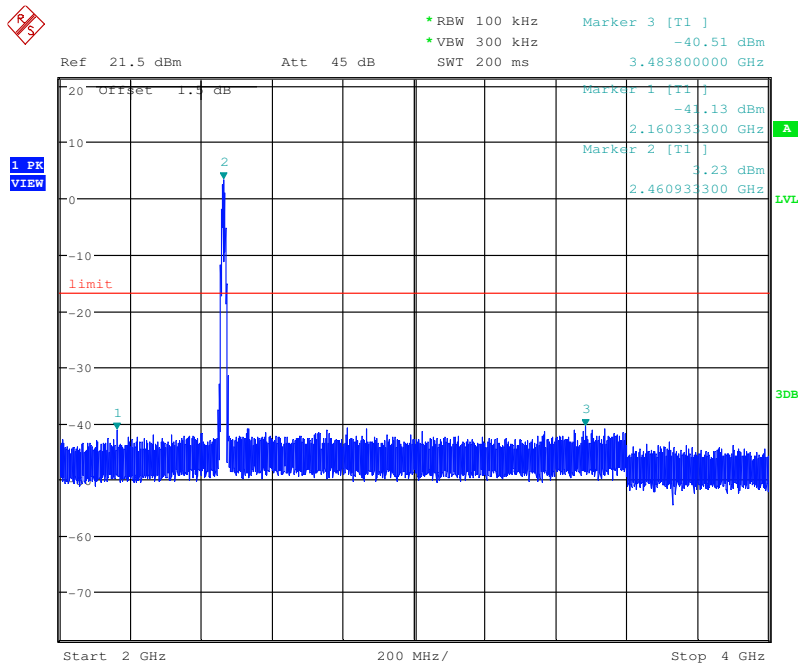
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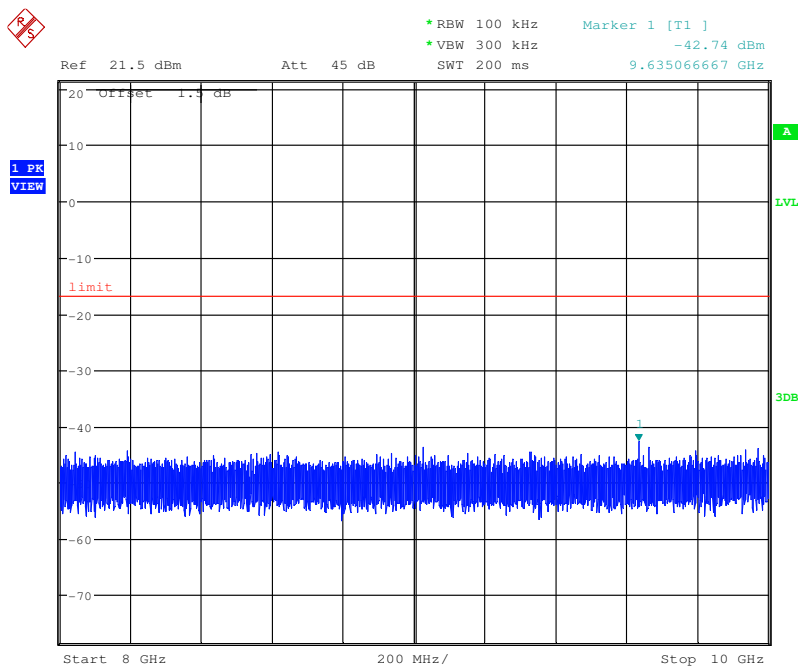
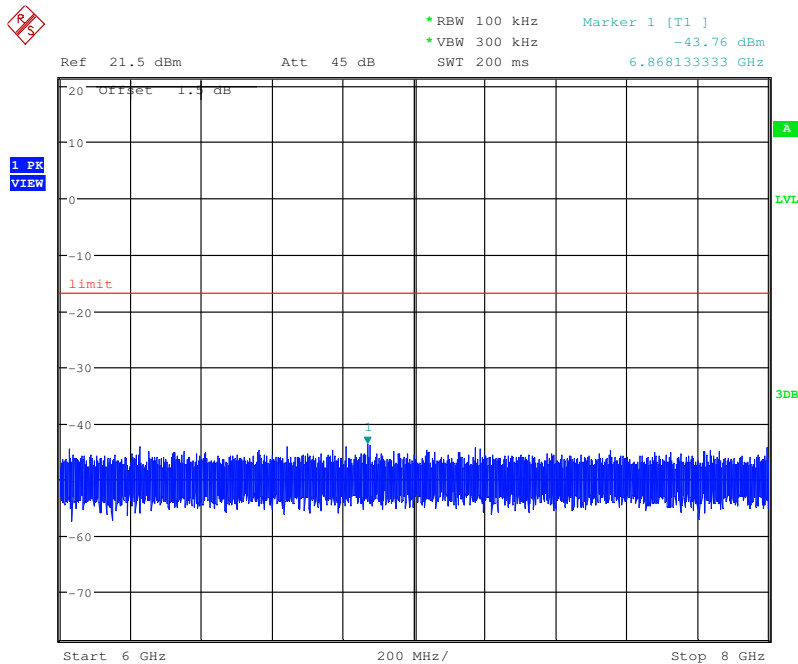
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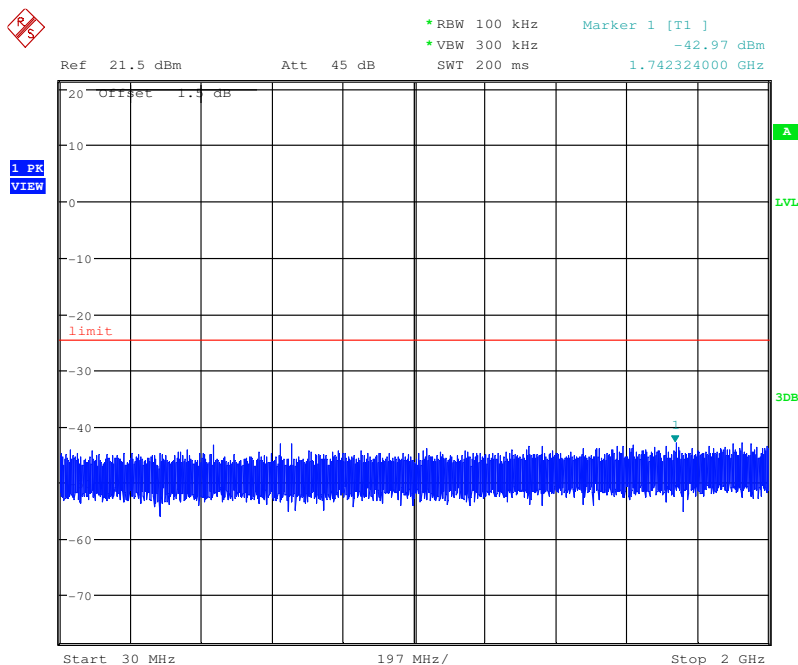
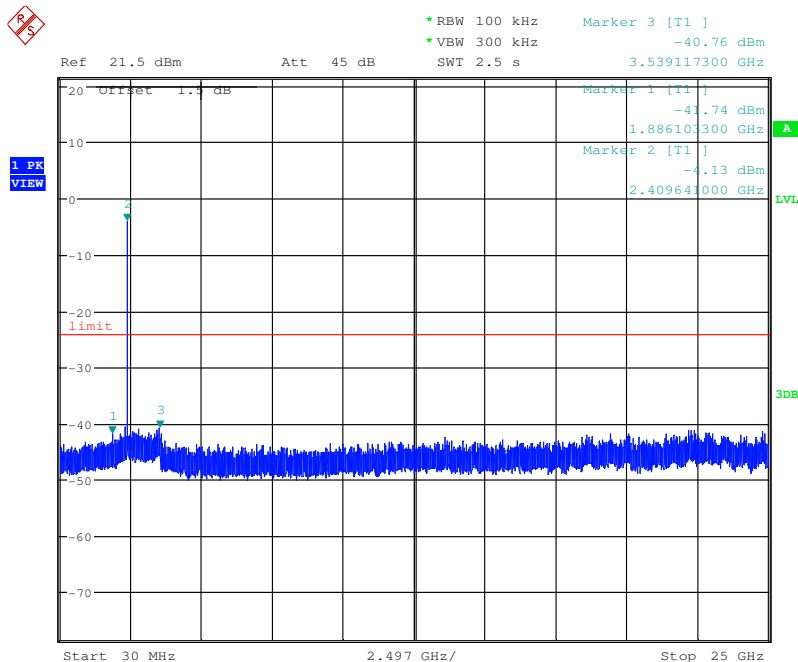


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Test mode:	802.11g	Test channel:	Lowest
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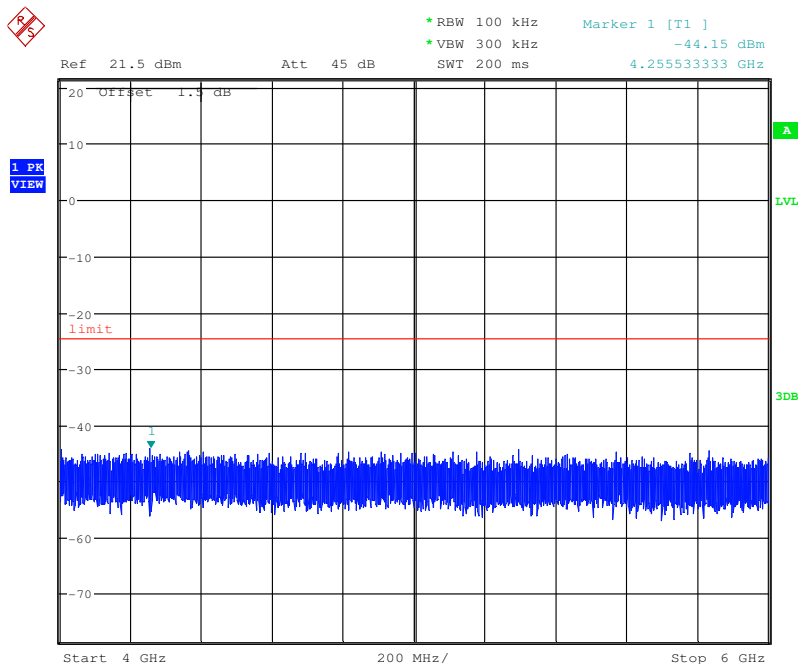
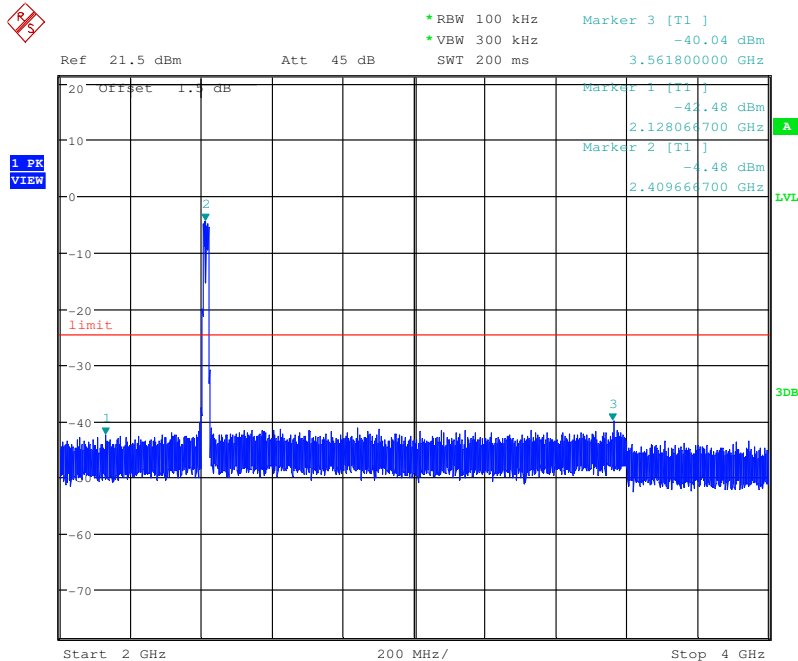
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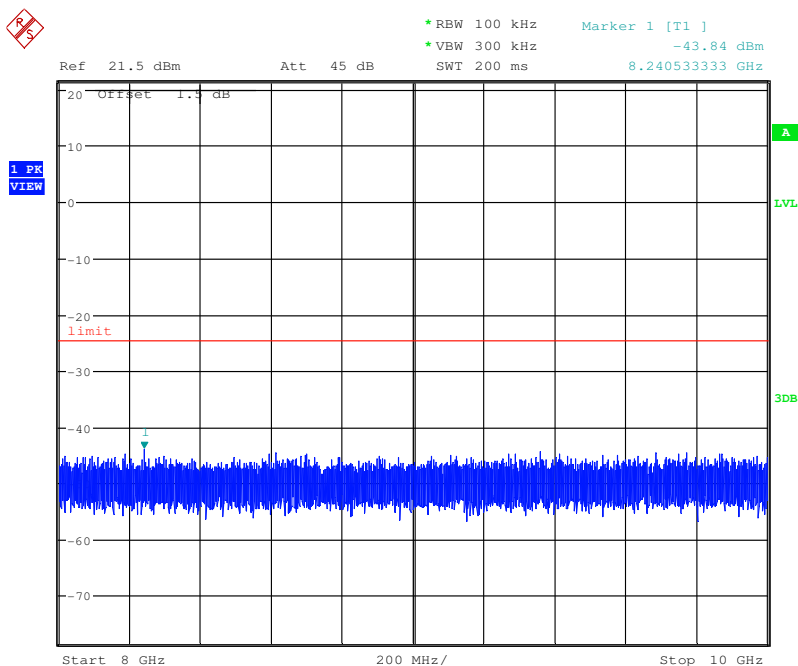
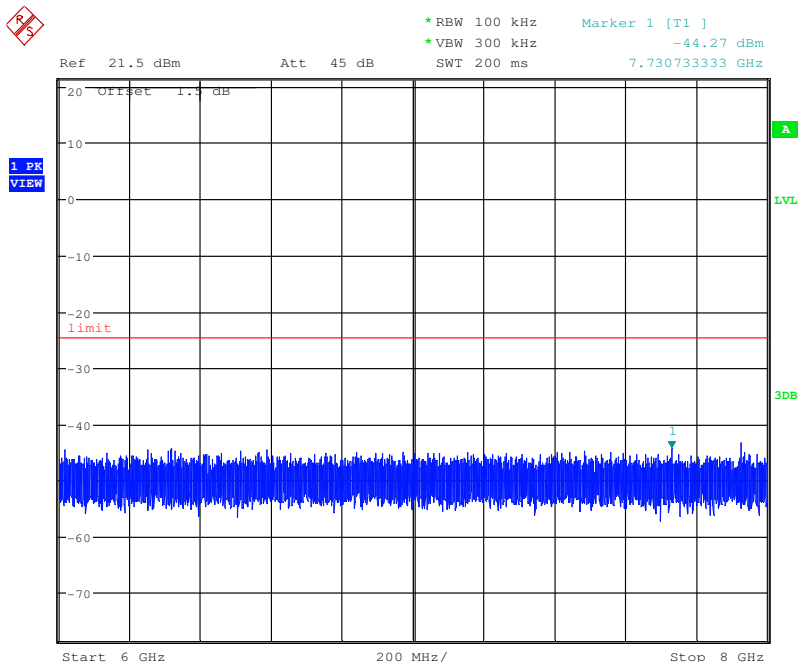
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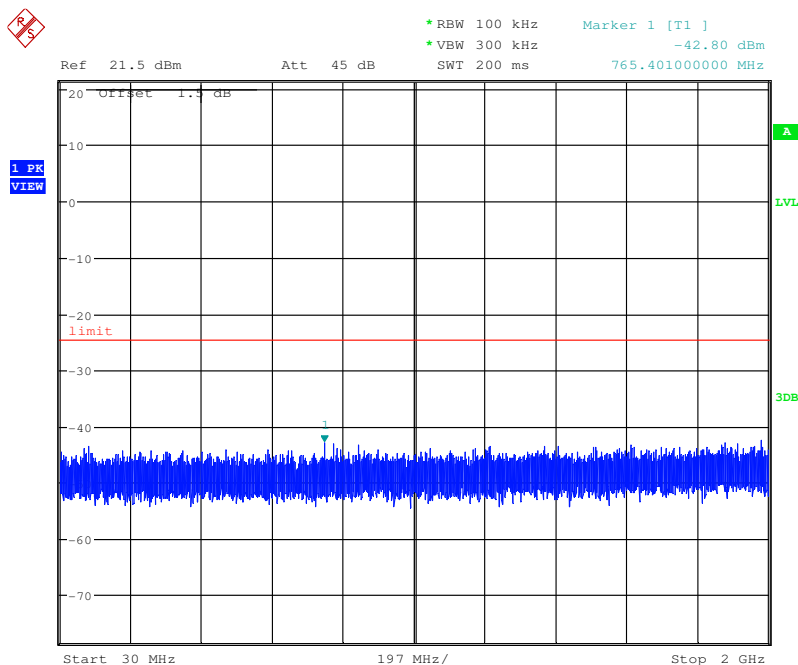
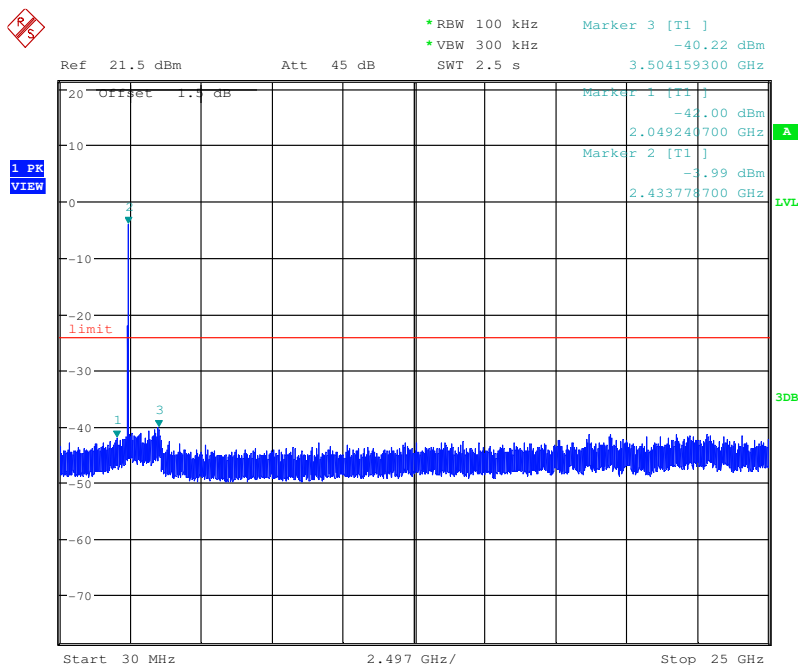


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Test mode:	802.11g	Test channel:	Middle
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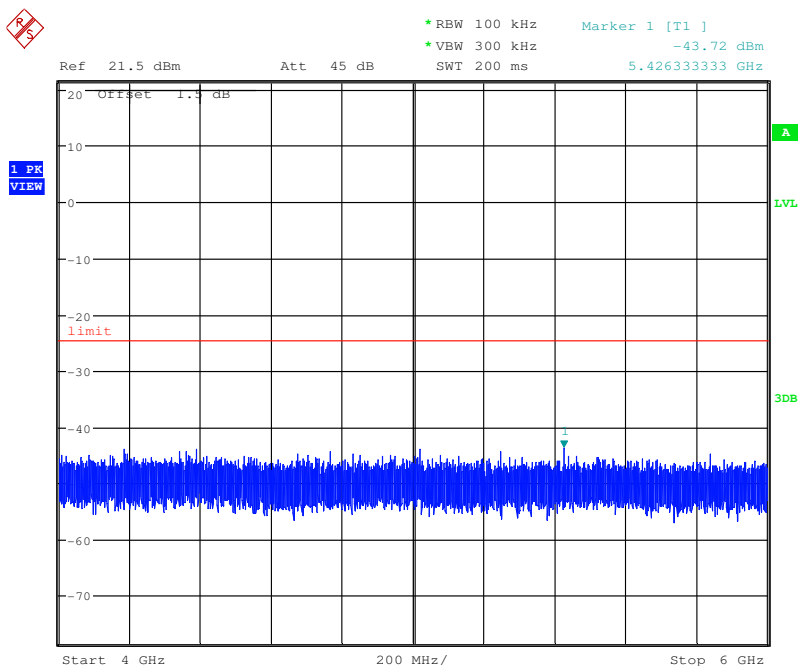
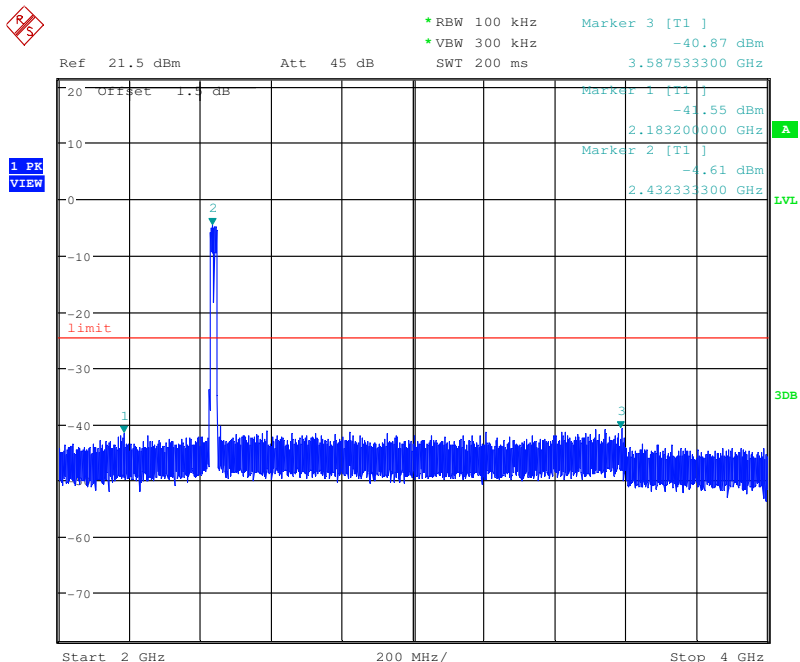
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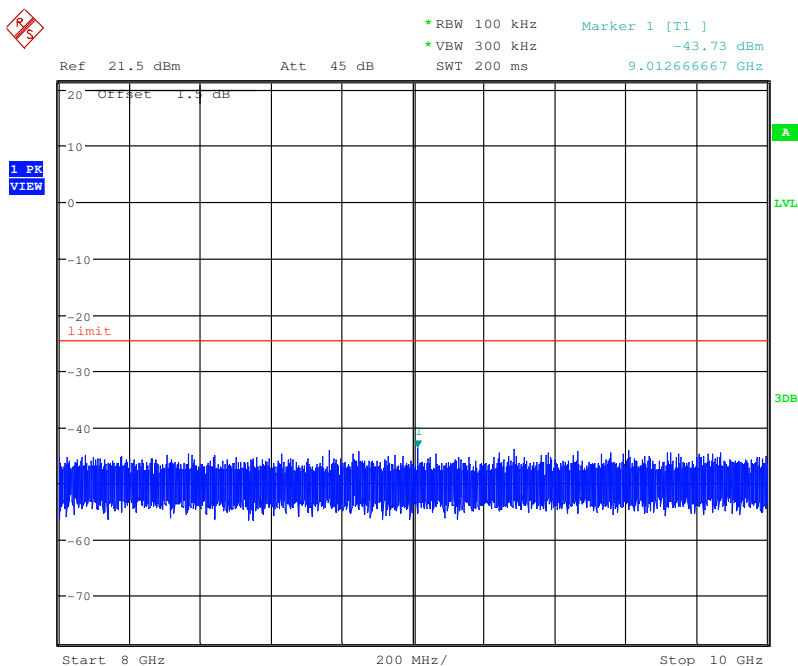
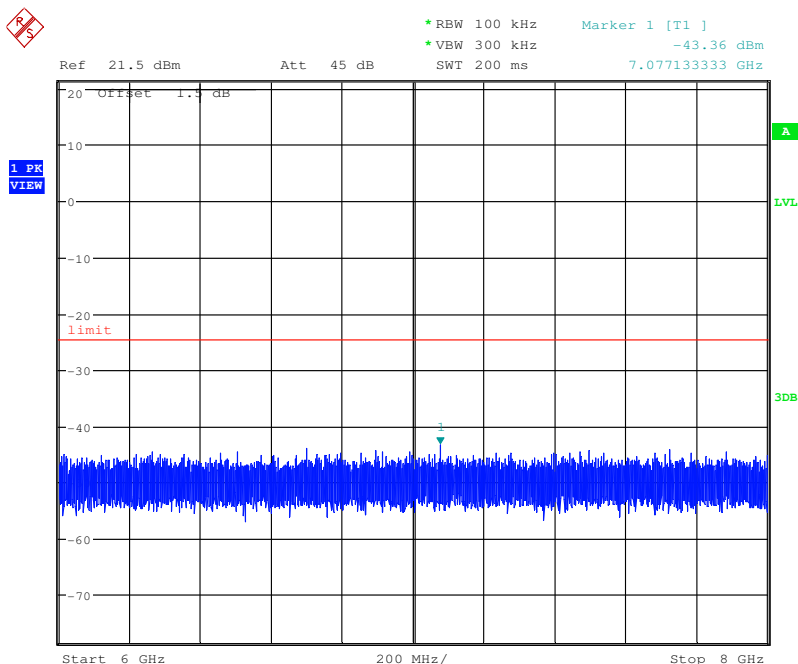
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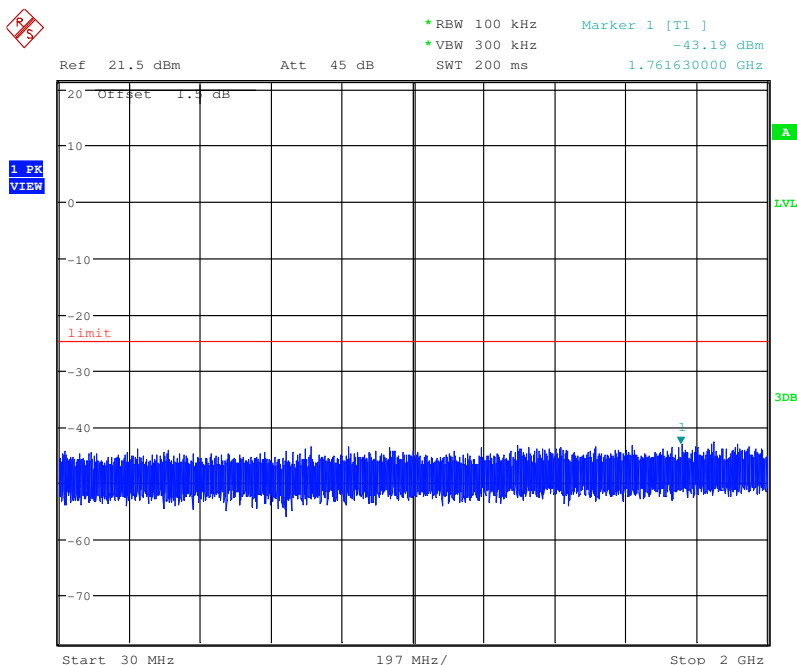
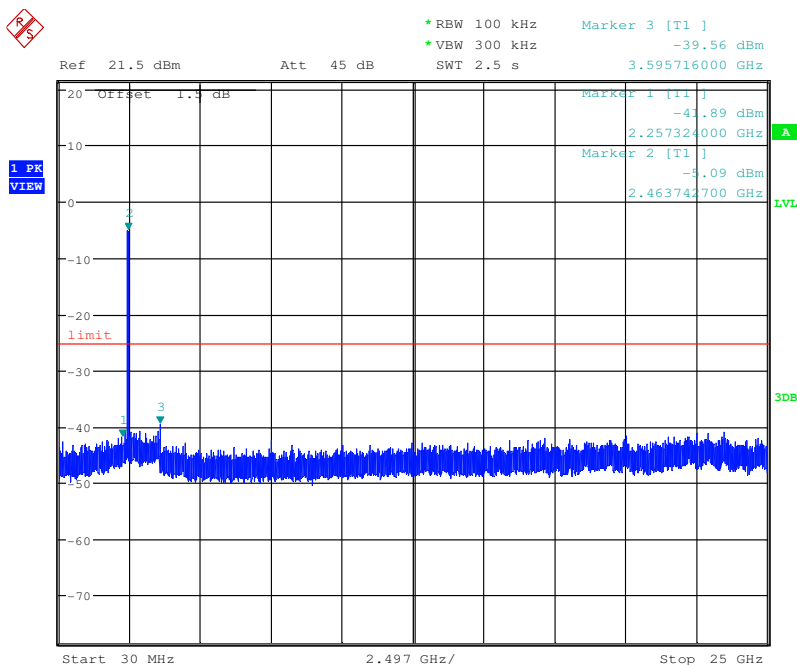


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Test mode:	802.11g	Test channel:	Highest
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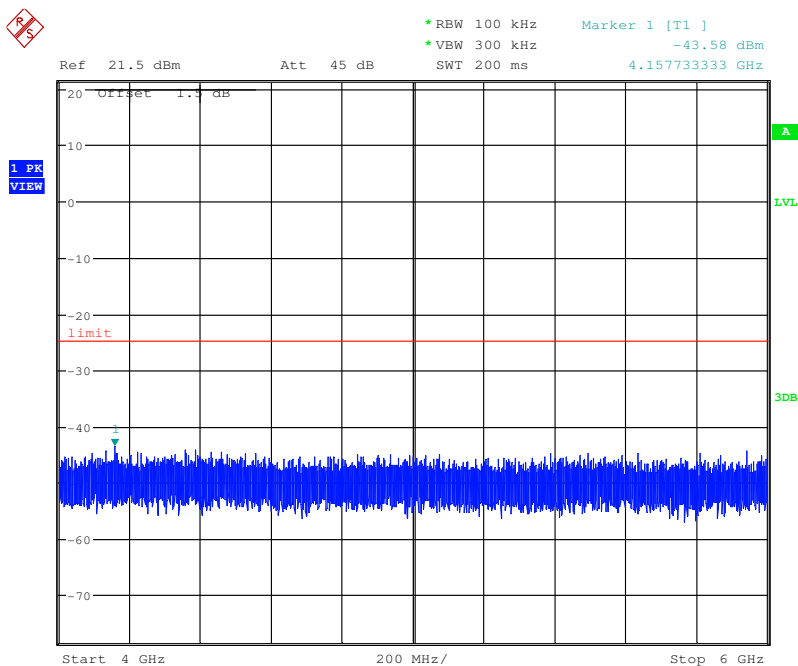
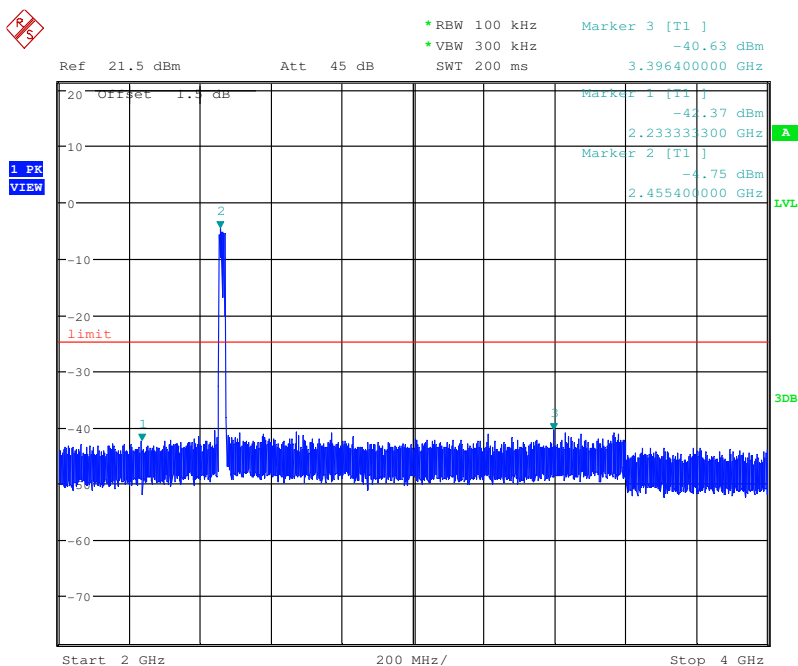
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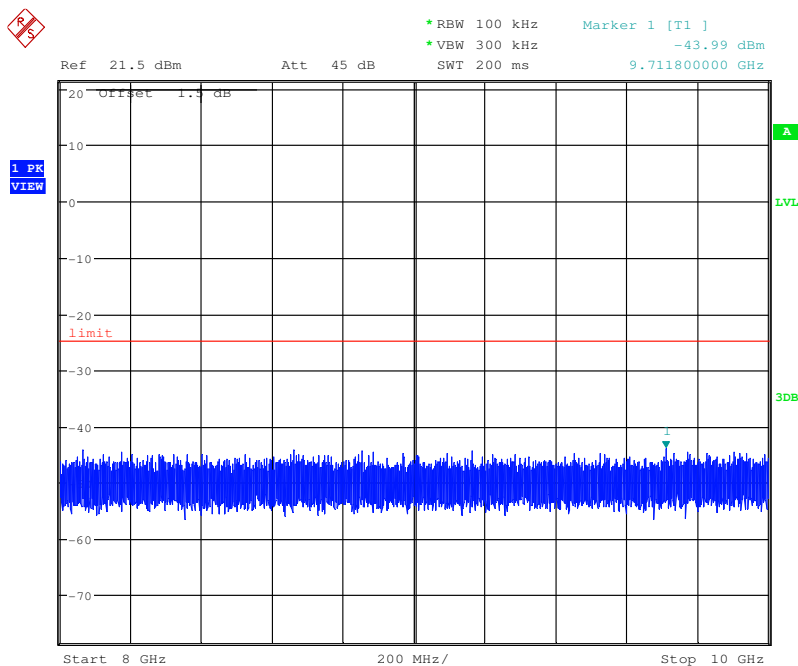
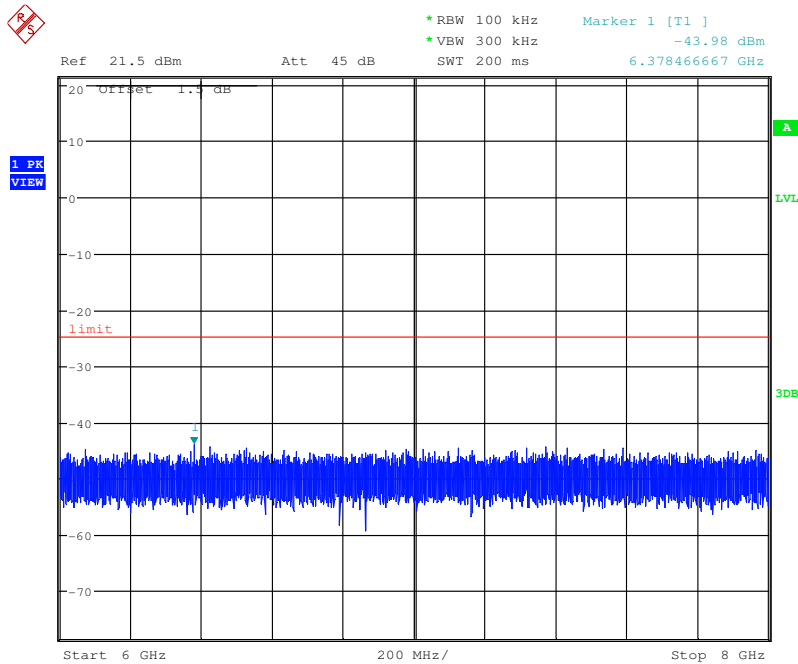
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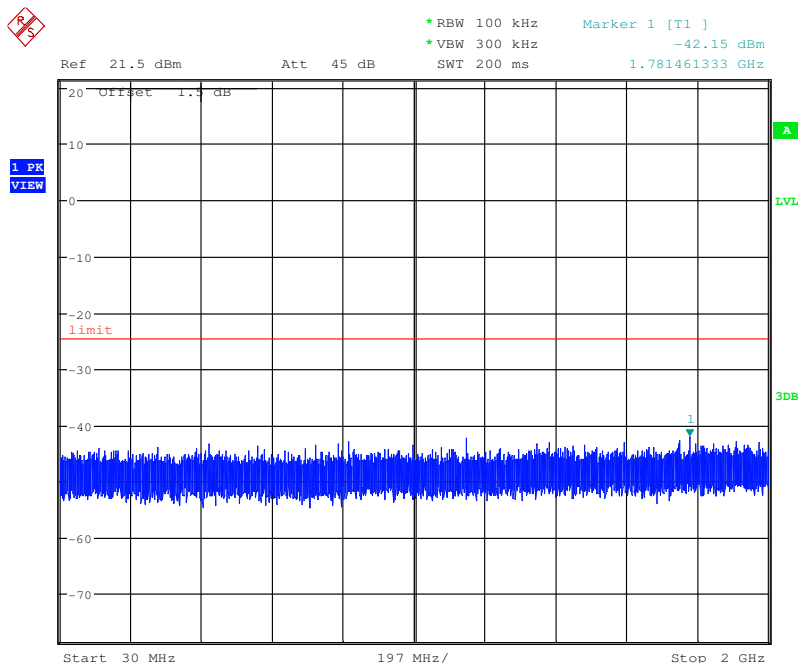
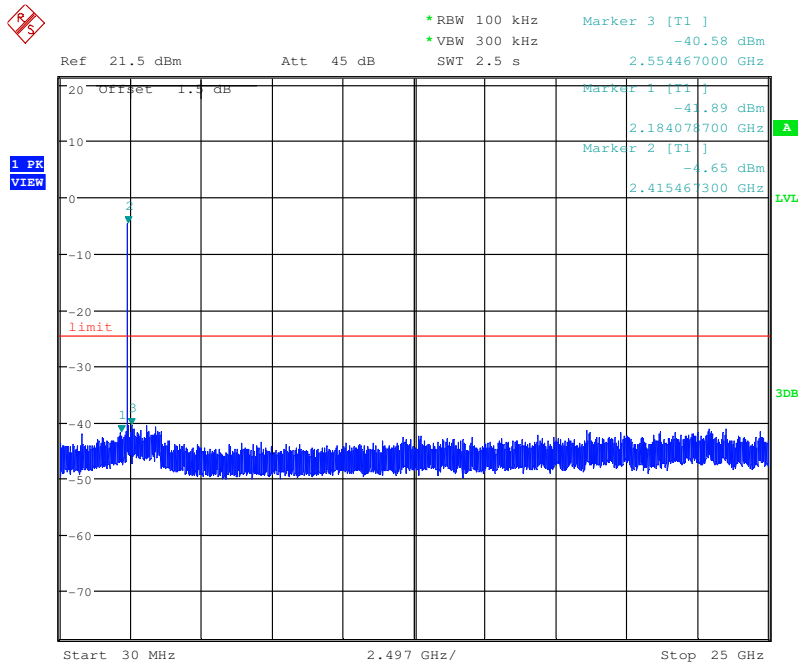


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Test mode:	802.11n(HT20)	Test channel:	Lowest
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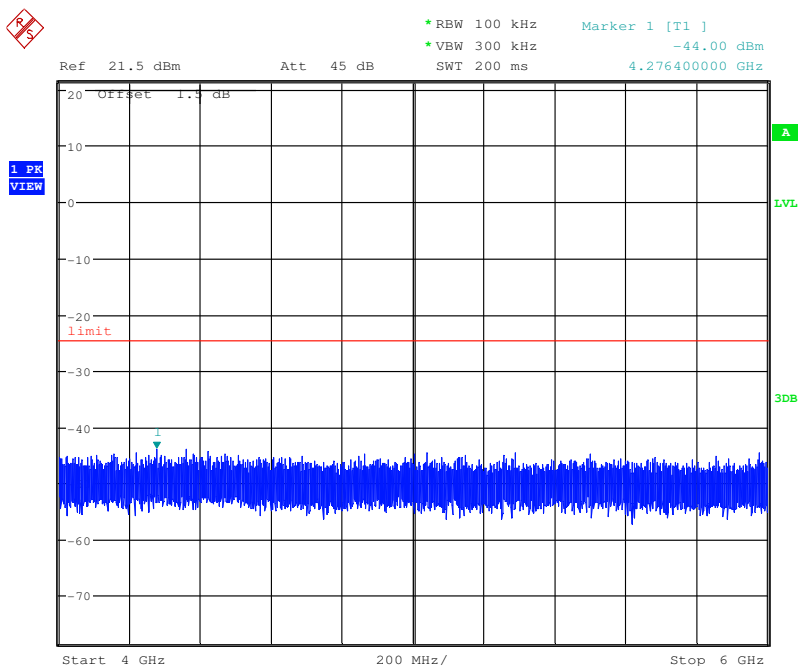
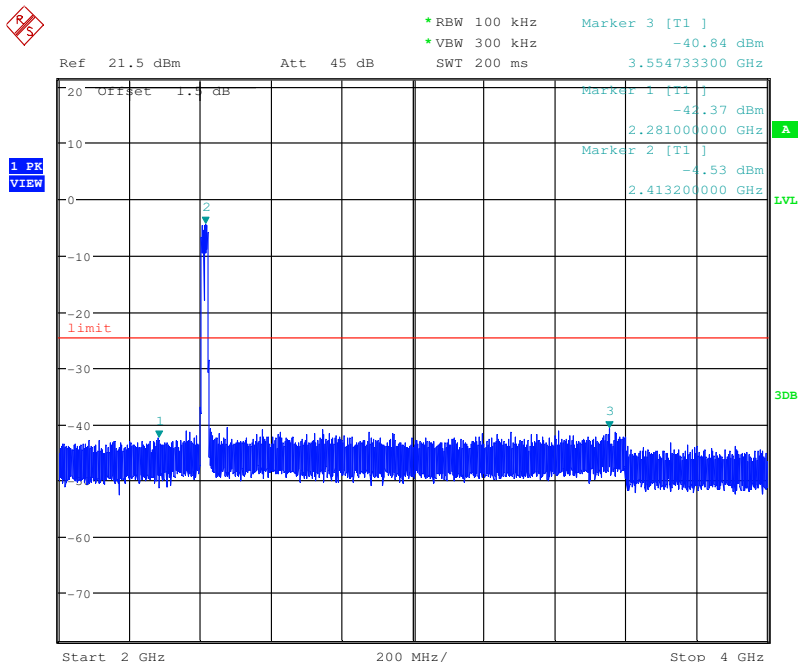
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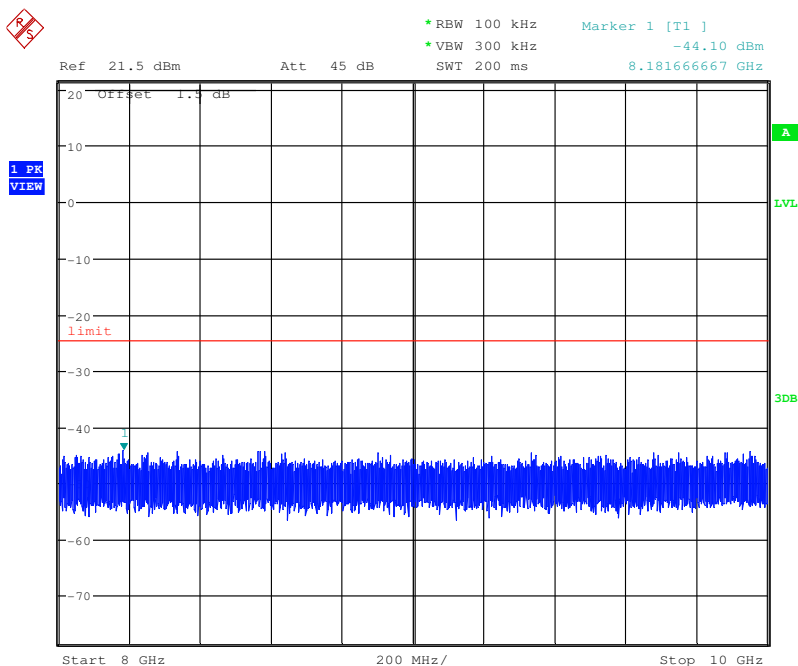
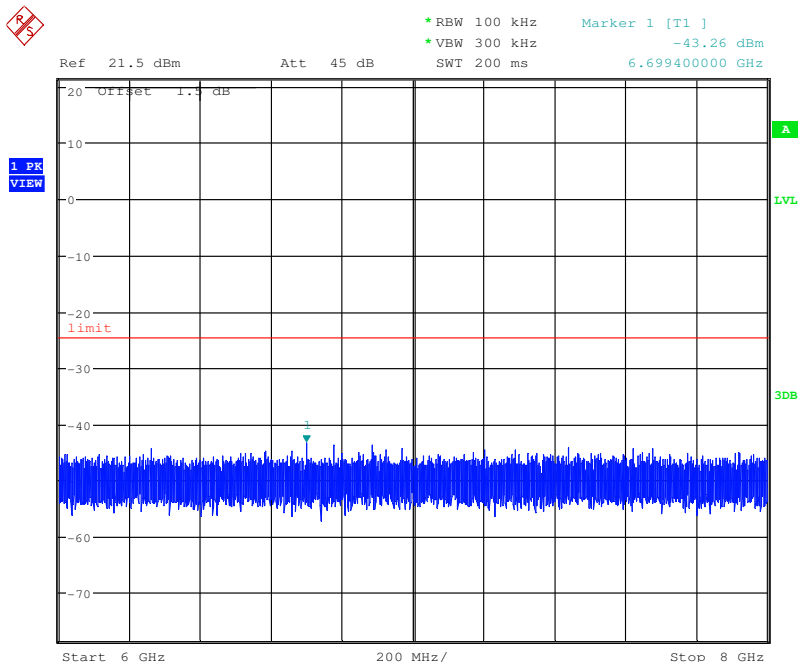
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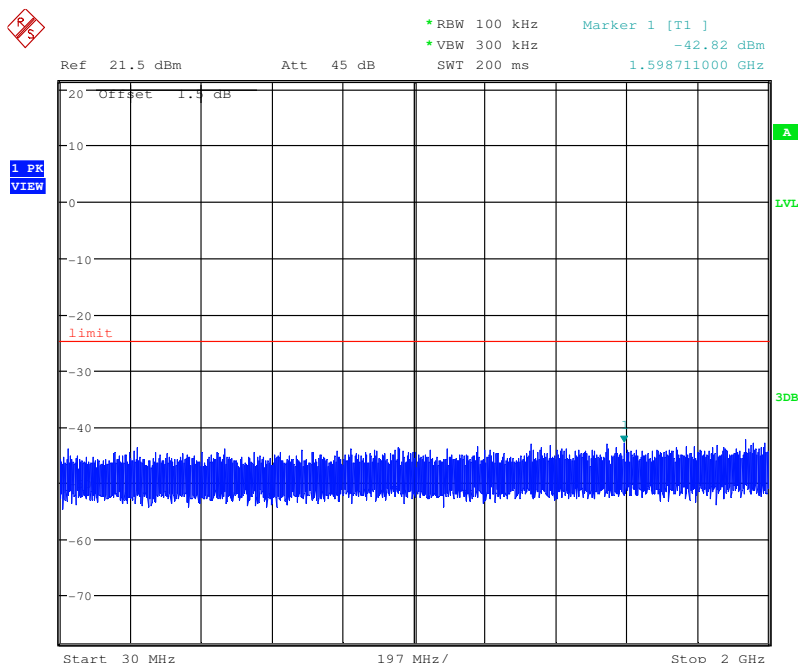
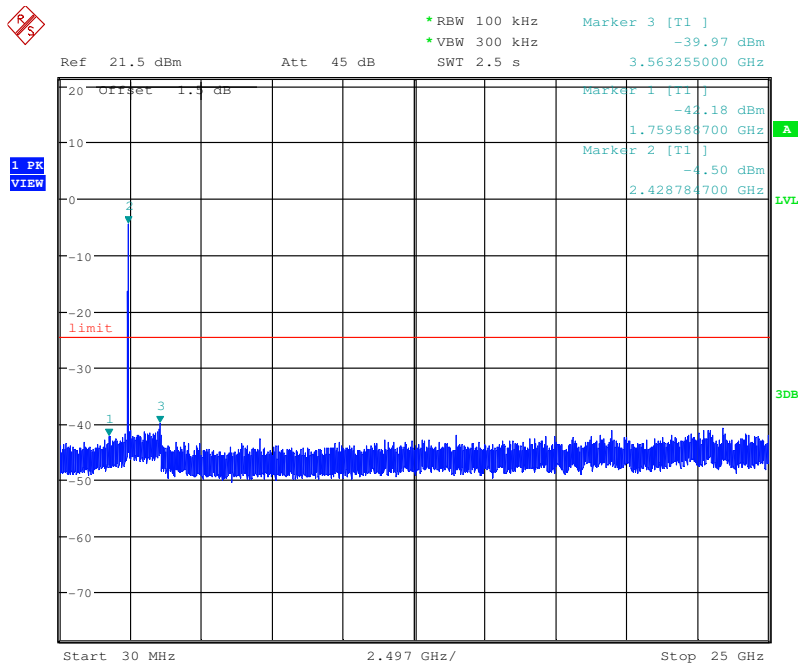


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Test mode:	802.11n(HT20)	Test channel:	Middle
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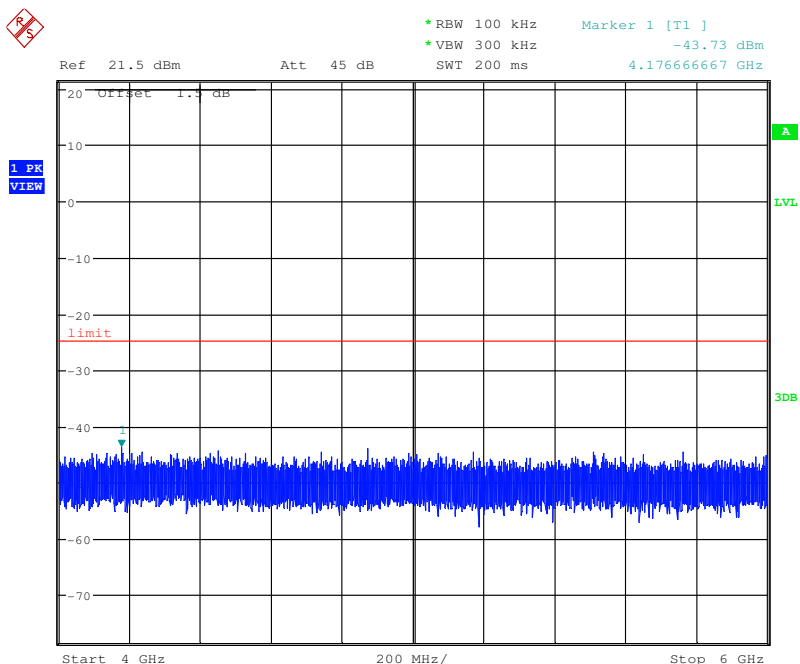
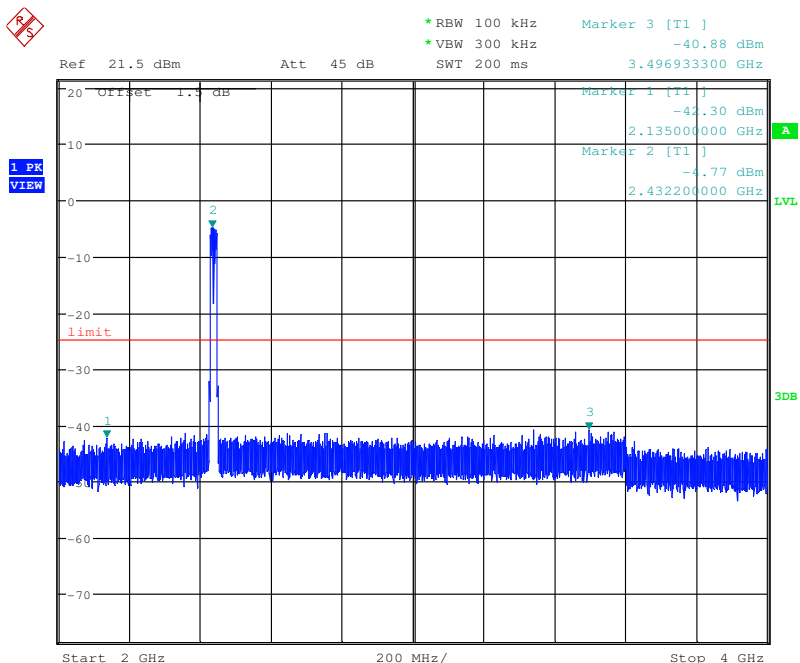
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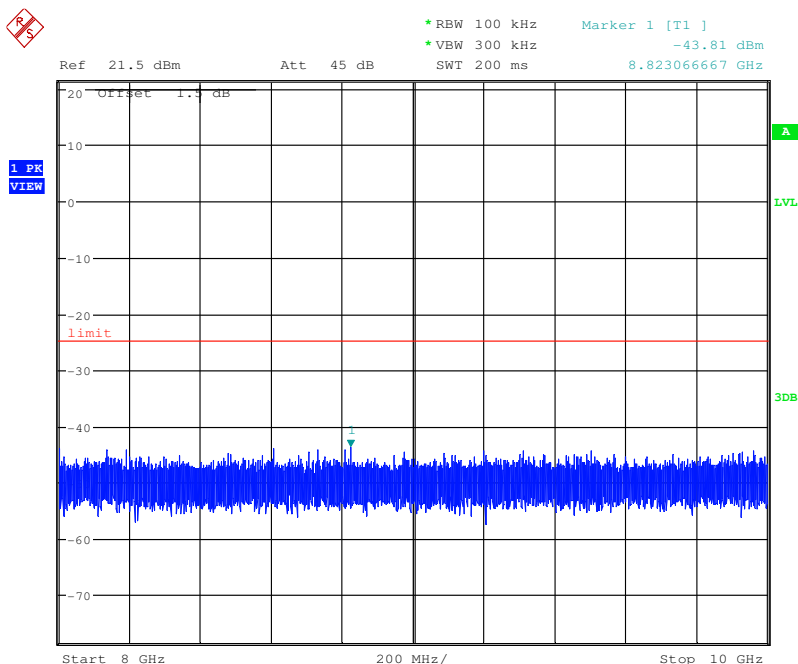
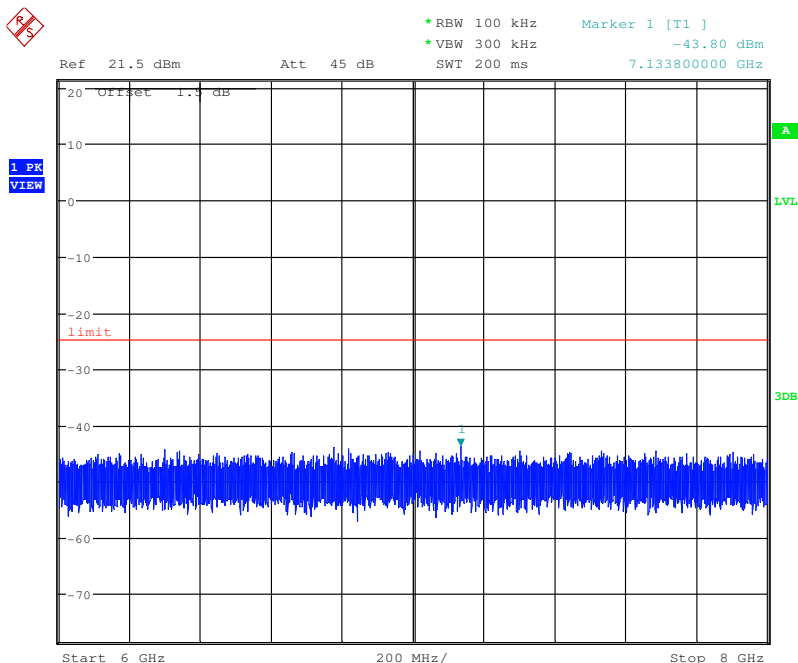
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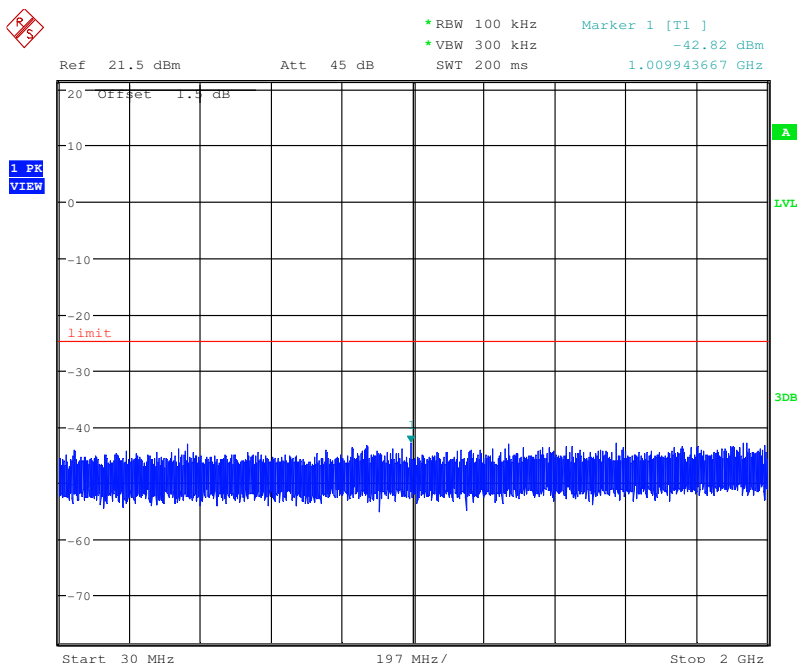
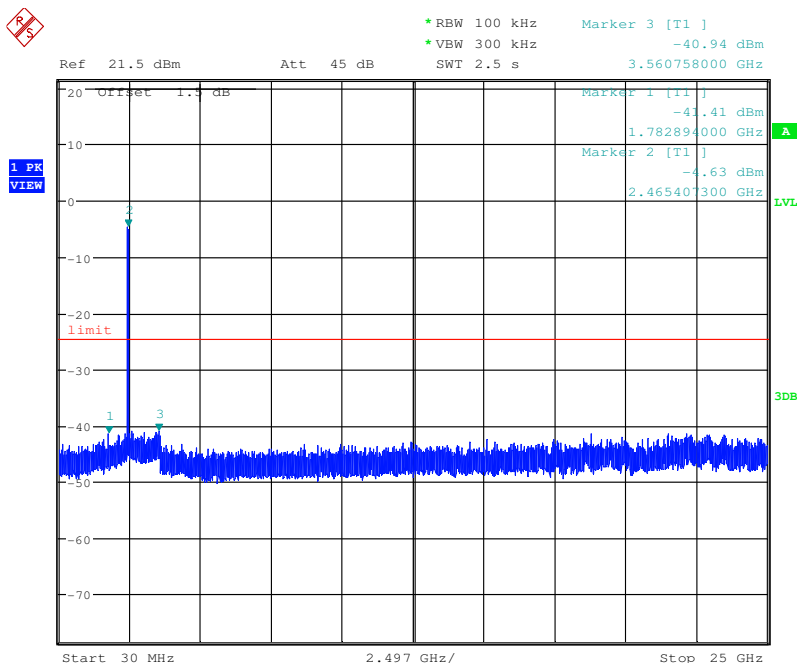


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Test mode:	802.11n(HT20)	Test channel:	Highest
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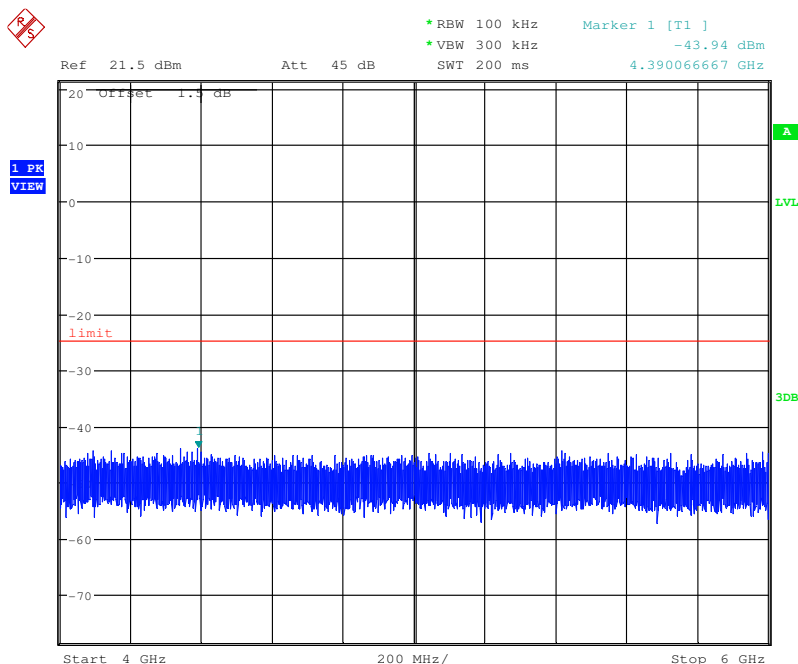
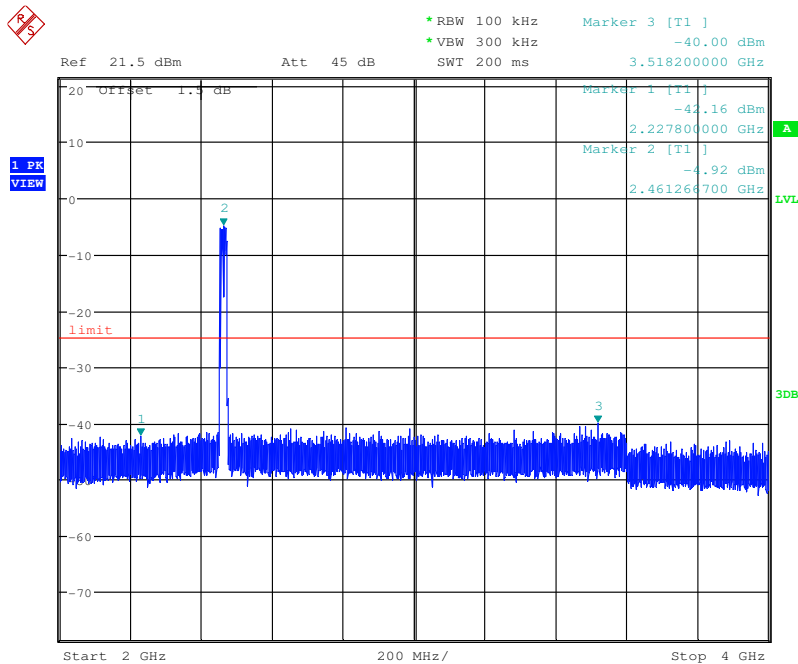
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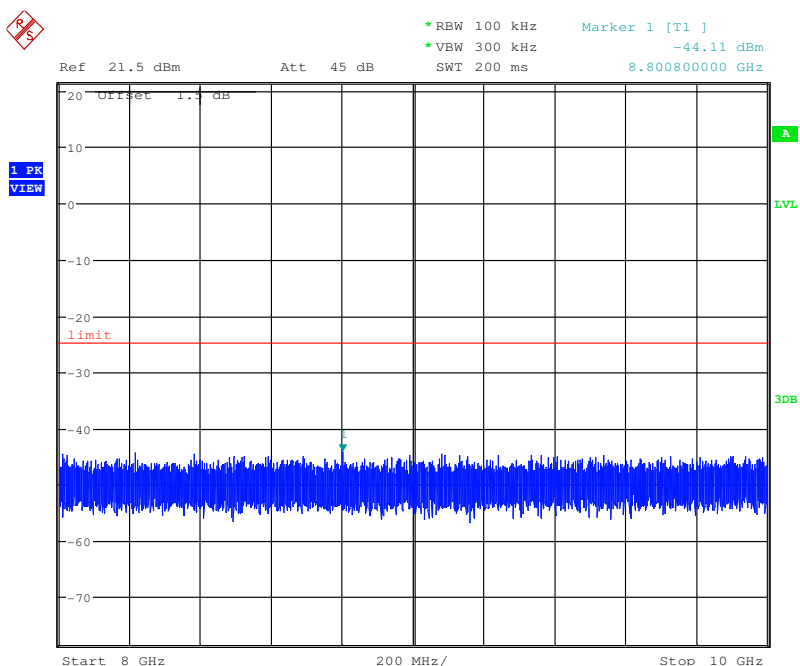
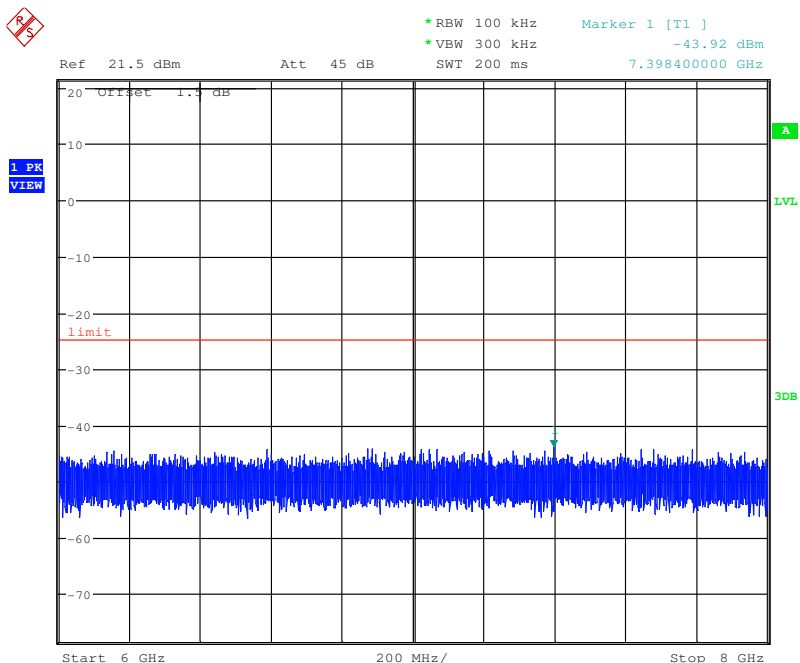
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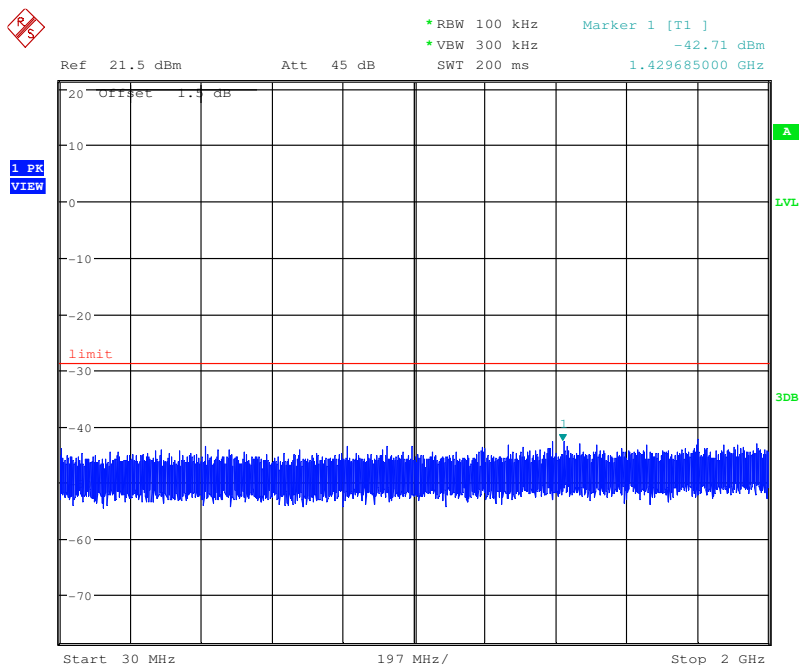
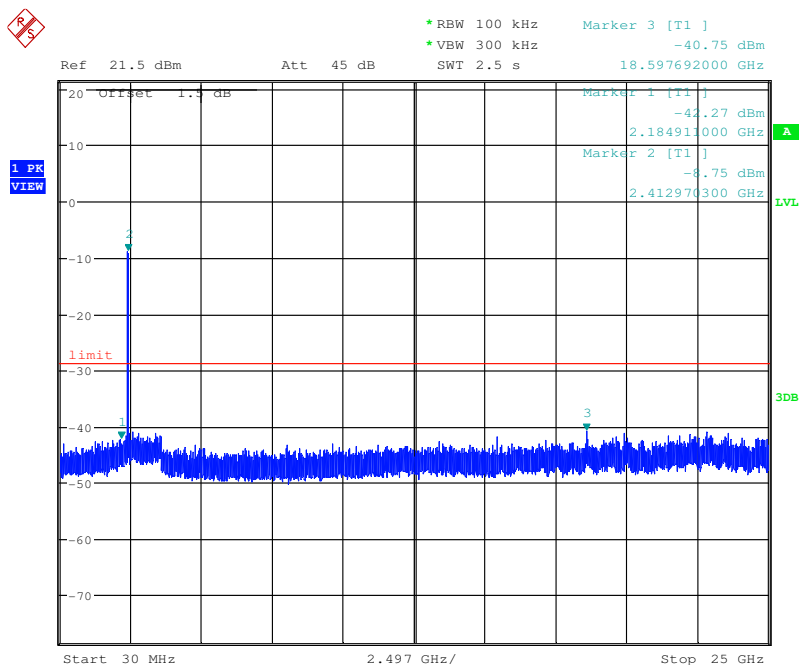


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Test mode:	802.11n(HT40)	Test channel:	Lowest
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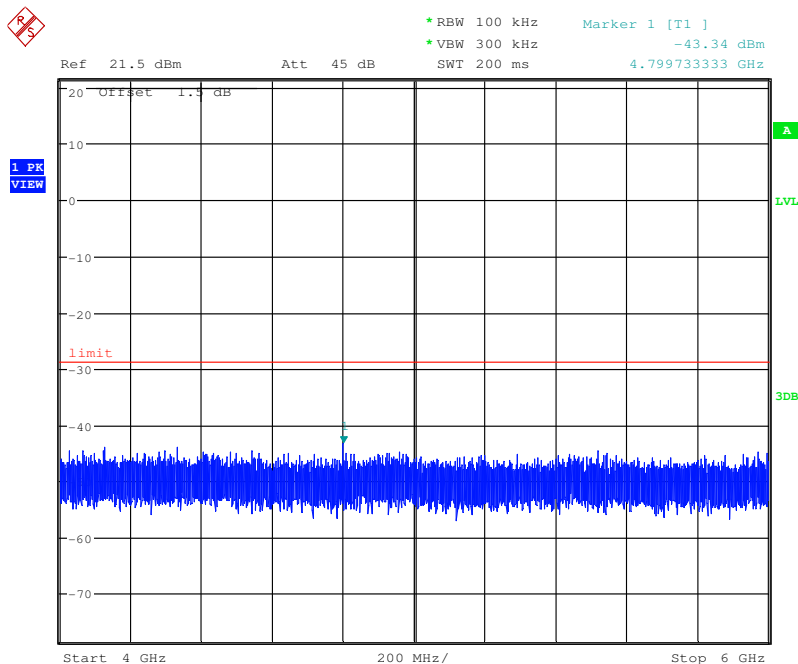
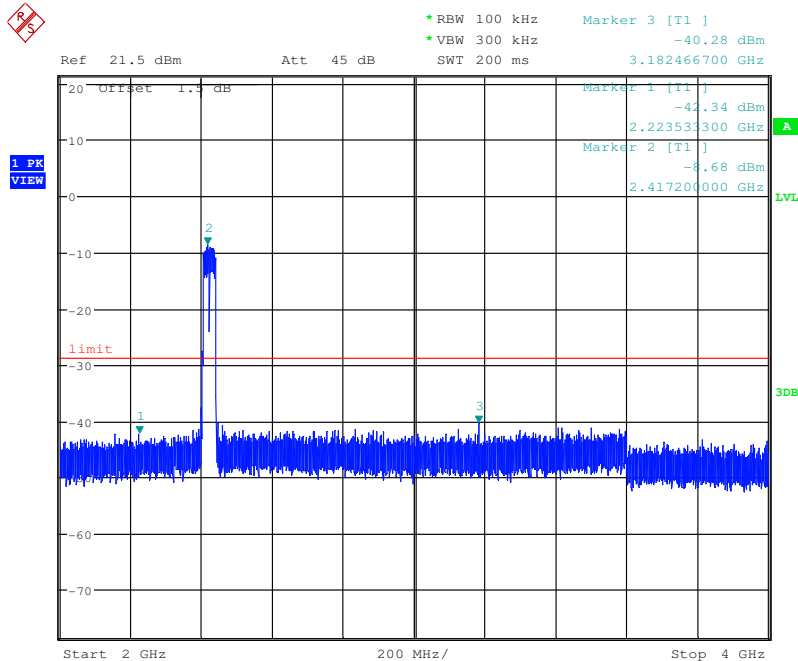
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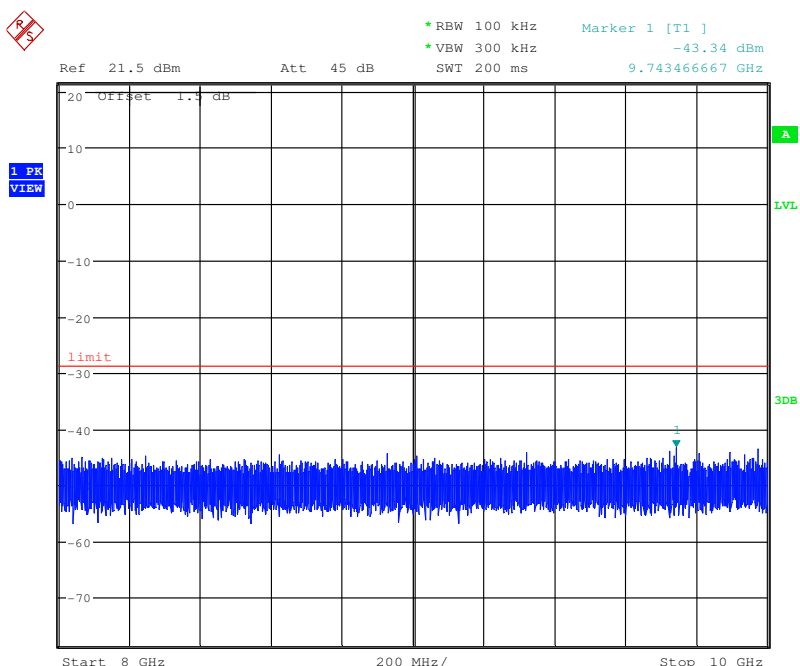
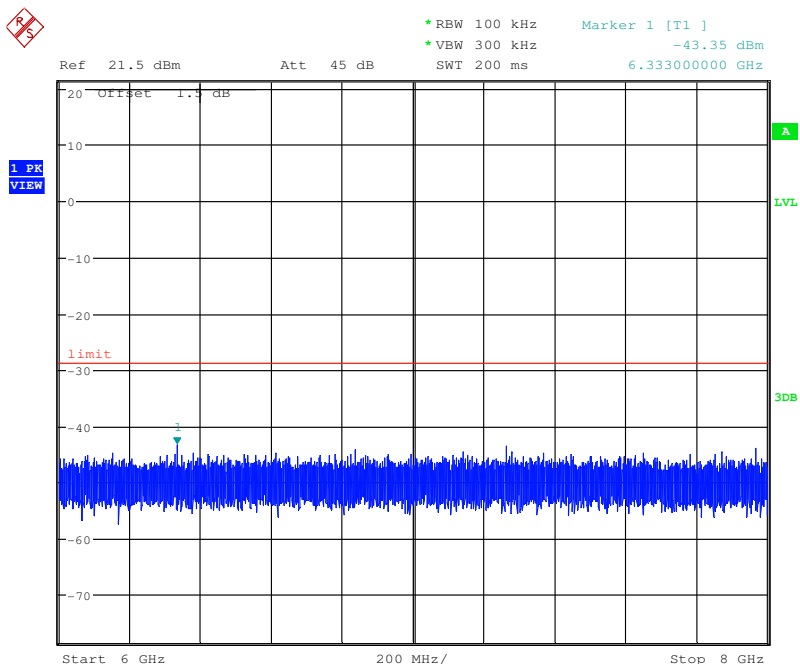
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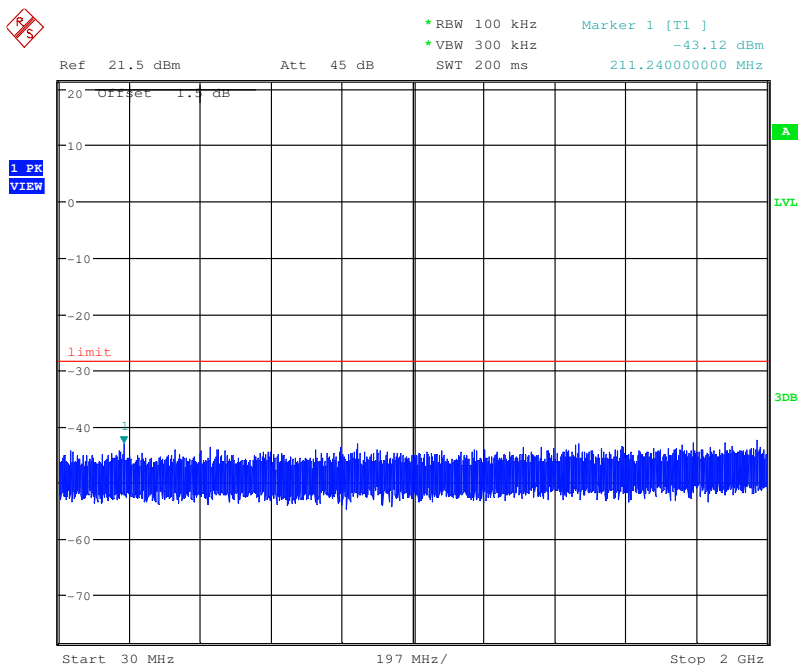
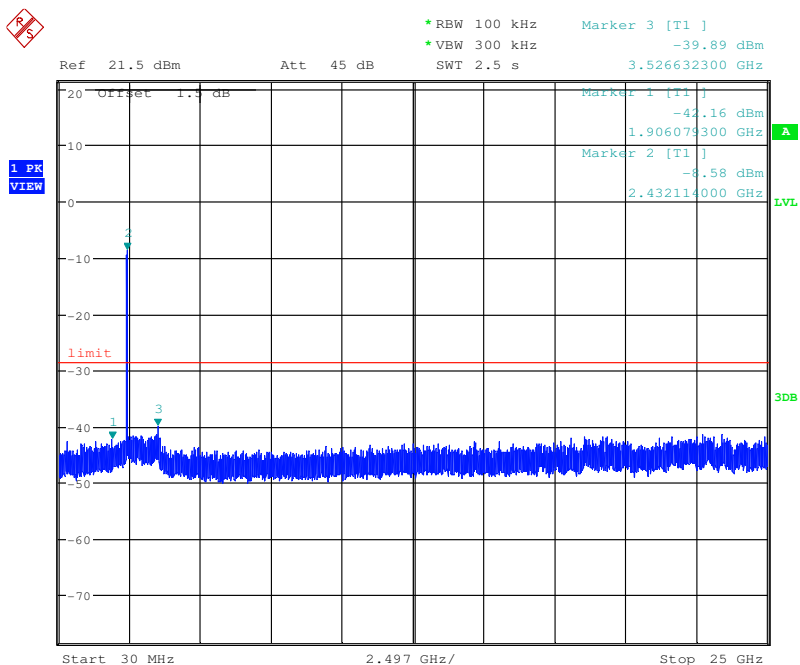


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Test mode:	802.11n(HT40)	Test channel:	Middle
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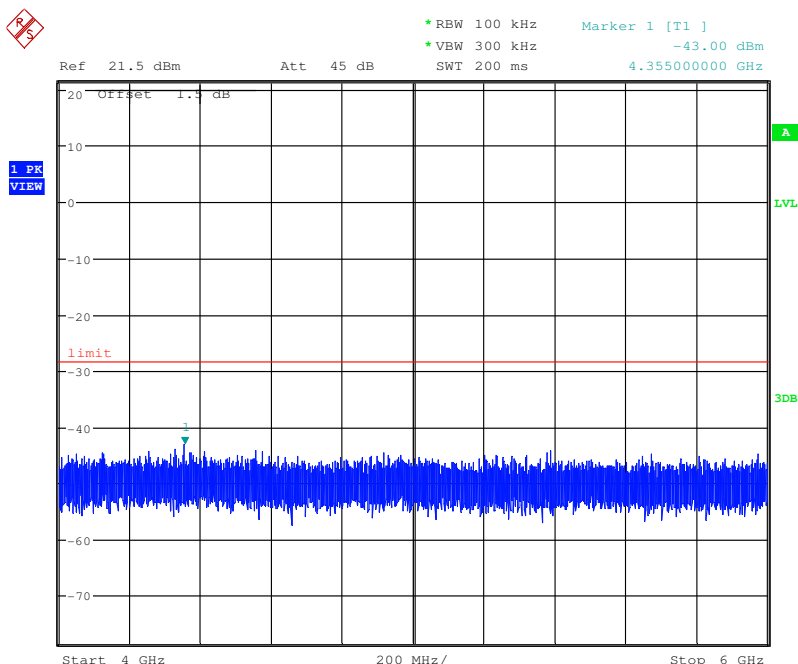
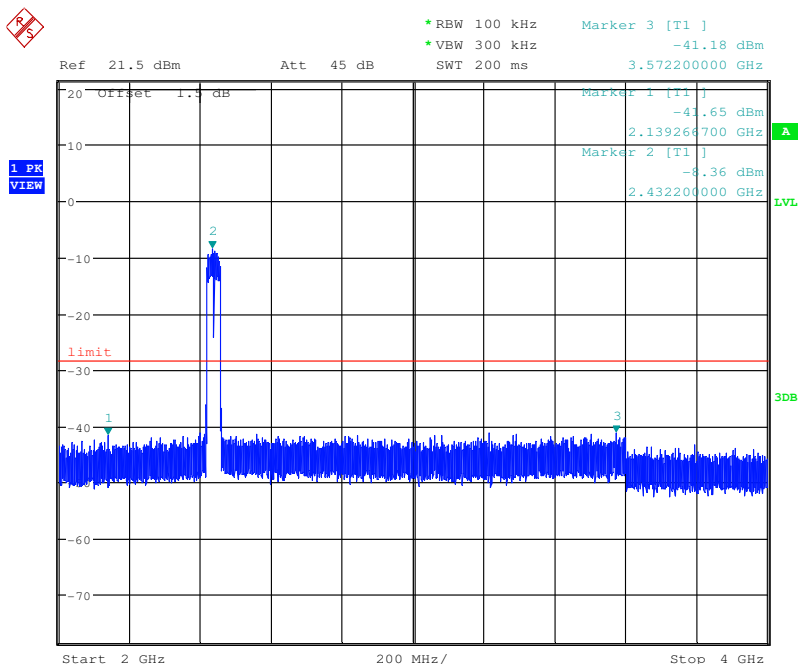
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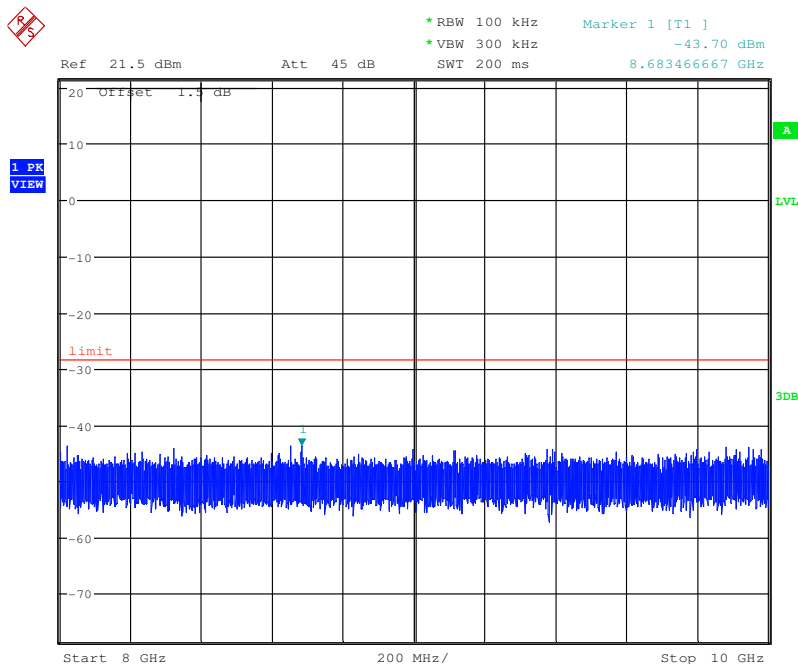
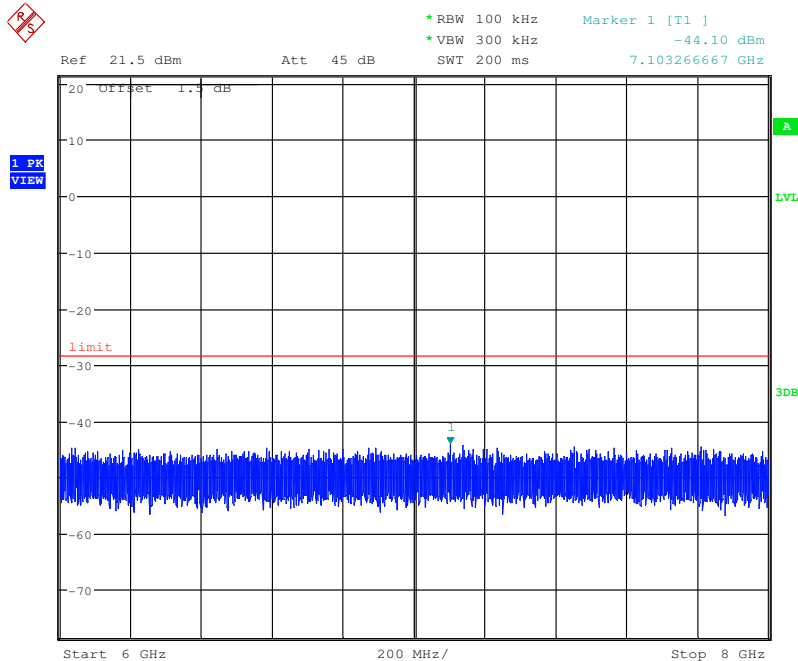
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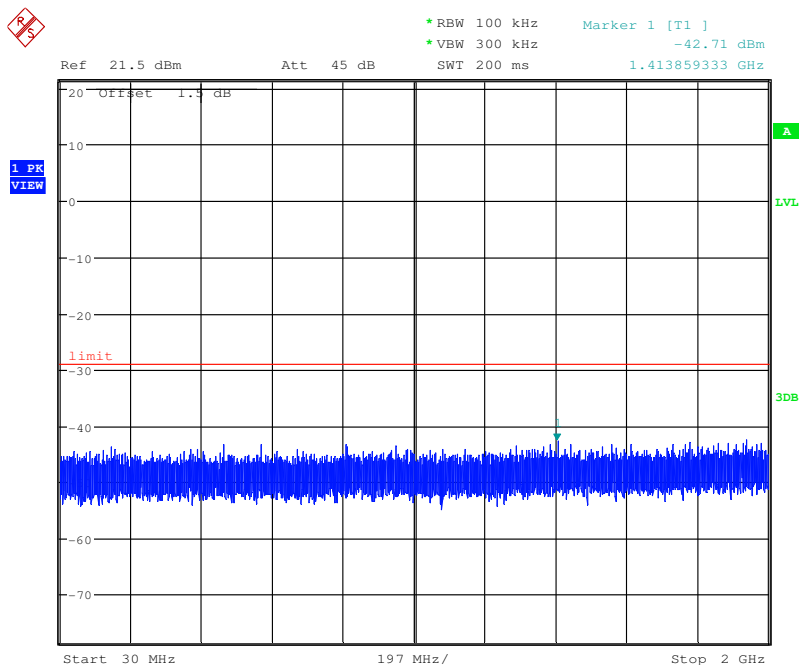
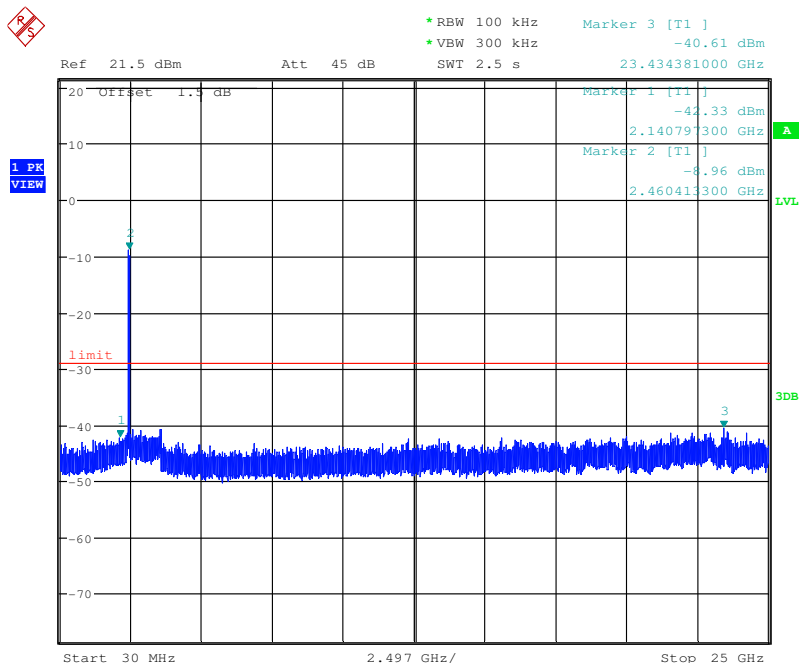


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Test mode:	802.11n(HT40)	Test channel:	Highest
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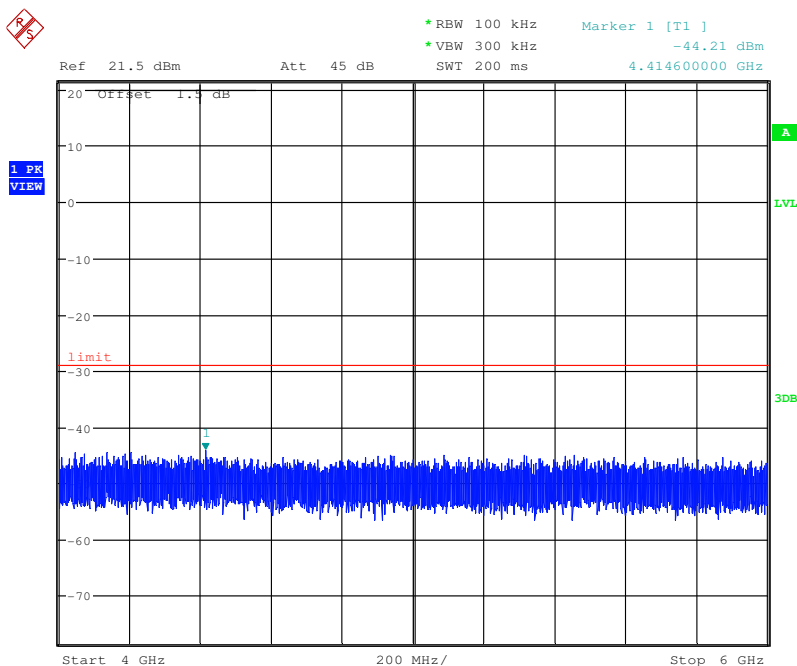
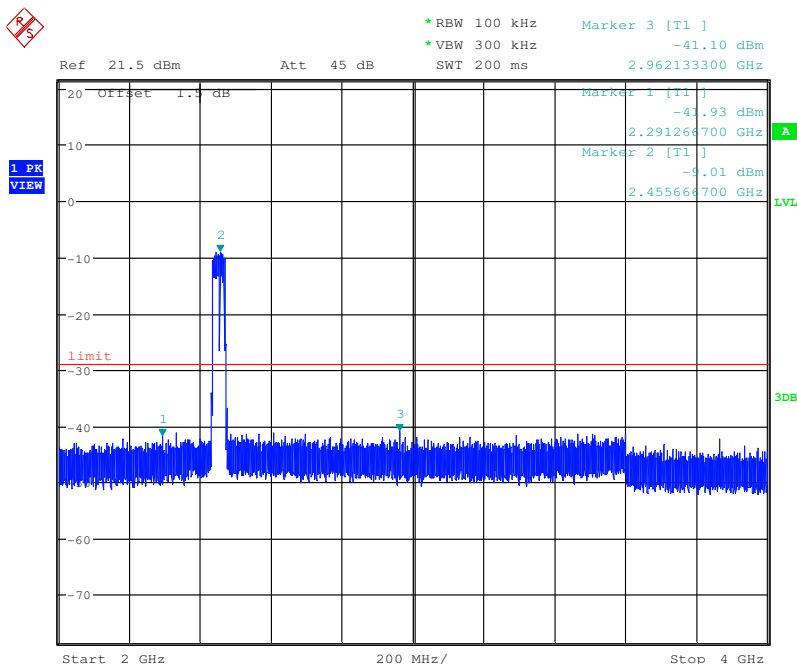
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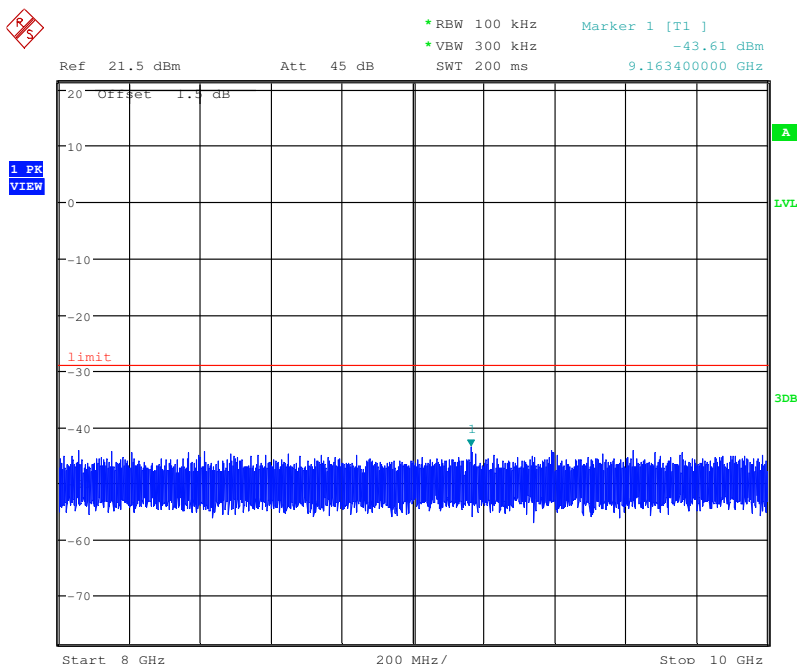
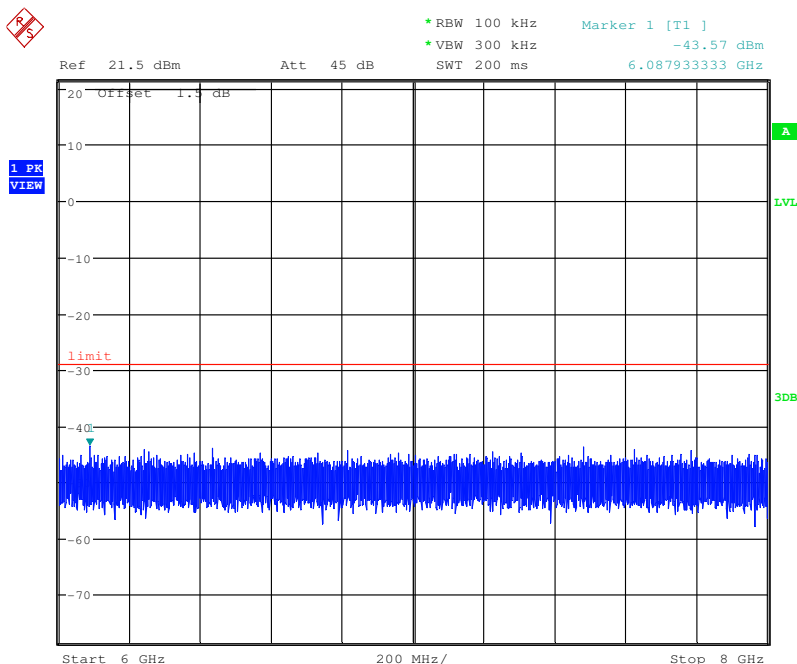
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Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30001.



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6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 2013 11.12				
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	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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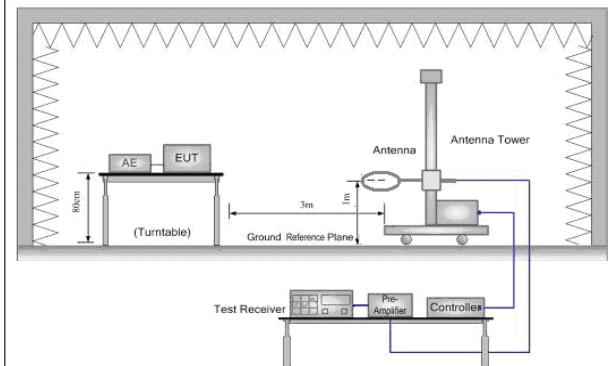


Figure 1. Below 30MHz

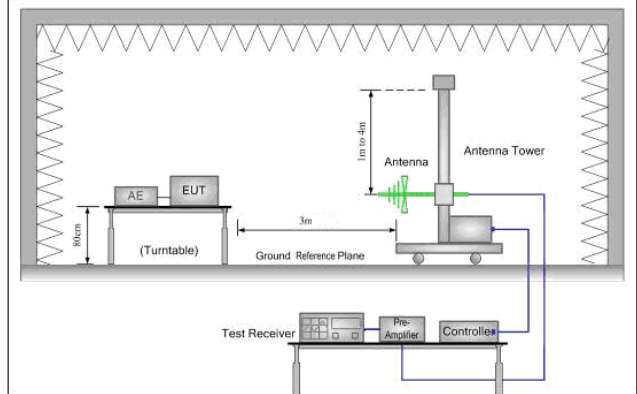


Figure 2. 30MHz to 1GHz

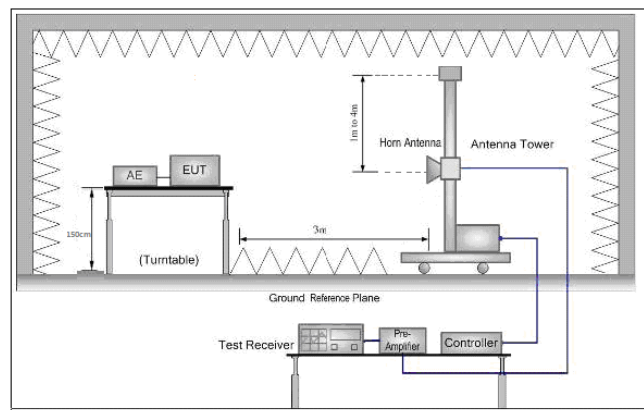


Figure 3. Above 1 GHz

Test Procedure:

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.



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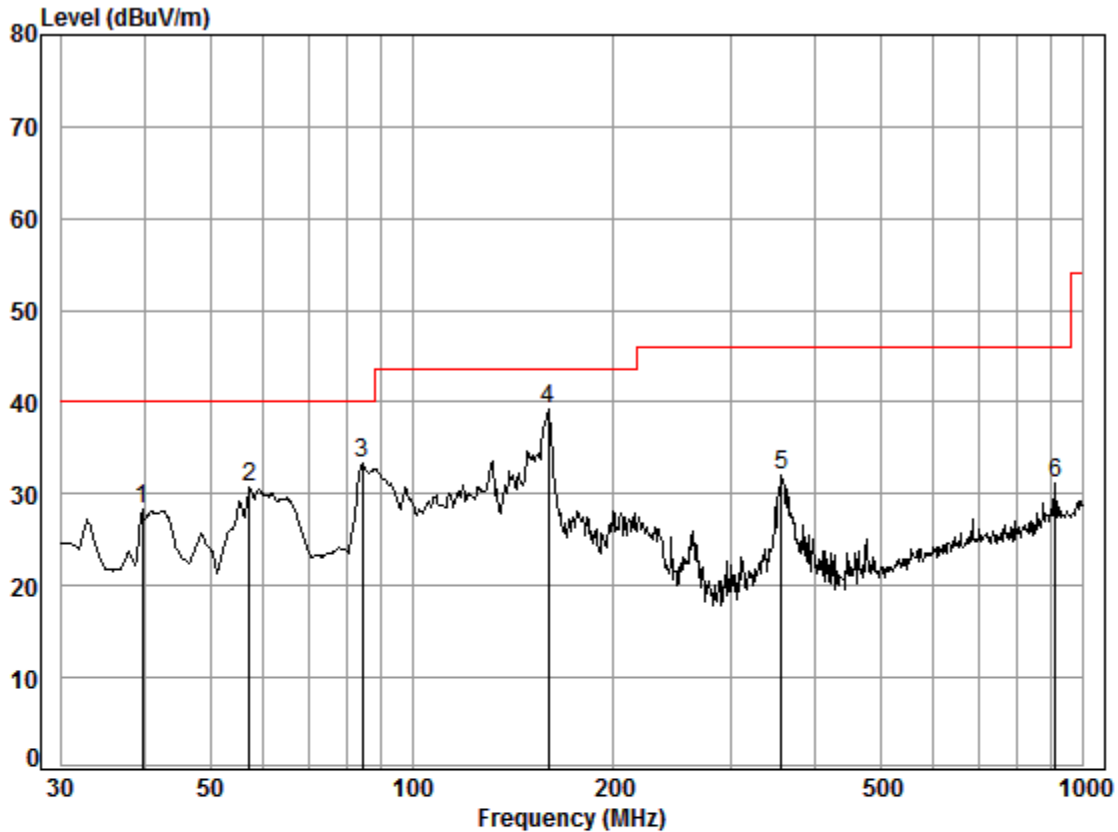
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	g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40) For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case. Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



6.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Charge +Transmitting	Vertical



Condition: 3m VERTICAL

Job No. : 7647CR

Mode : Charge+TX

	Freq	Cable Loss	Ant Factor	Preamplifier Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	39.58	0.60	13.41	25.98	40.34	28.37	40.00	-11.63
2	57.19	0.80	7.65	25.95	48.32	30.82	40.00	-9.18
3	84.41	1.10	8.26	25.91	49.93	33.38	40.00	-6.62
4	159.78	1.34	9.69	25.81	54.01	39.23	43.50	-4.27
5	355.43	2.08	15.59	25.68	40.11	32.10	46.00	-13.90
6	909.67	3.61	23.28	24.99	29.18	31.08	46.00	-14.92

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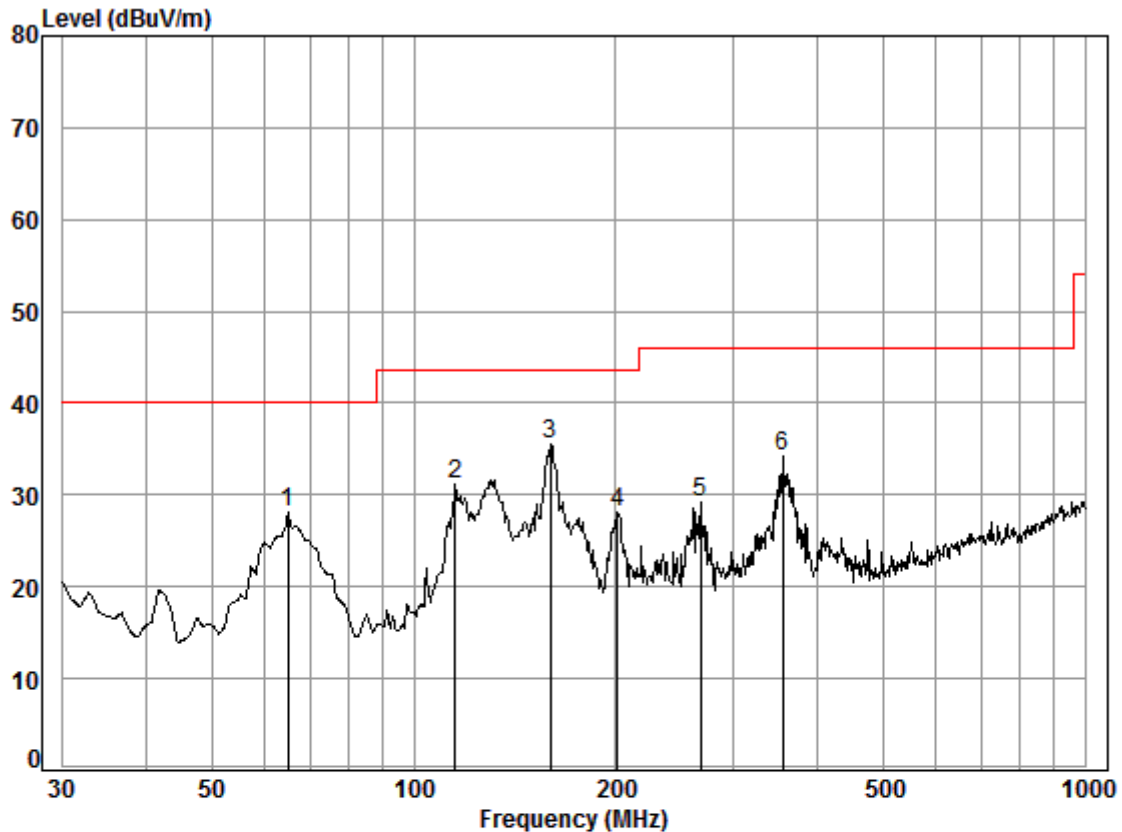


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Test mode:	Charge +Transmitting	Horizontal
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Condition: 3m HORIZONTAL

Job No. : 7647CR

Mode : Charge+TX

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	64.89	0.80	7.05	25.94	46.16	28.07	40.00	-11.93
2	115.32	1.24	8.37	25.87	47.49	31.23	43.50	-12.27
3	159.78	1.34	9.69	25.81	50.34	35.56	43.50	-7.94
4	201.39	1.41	10.27	25.77	42.27	28.18	43.50	-15.32
5	267.55	1.76	12.56	25.72	40.61	29.21	46.00	-16.79
6	354.18	2.07	15.57	25.68	42.31	34.27	46.00	-11.73

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6.8.2 Transmitter emission above 1GHz

Test mode:		802.11b		Test channel:		Lowest		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3727.173	10.26	32.61	38.46	42.46	46.87	74	-27.13	Vertical	
4824.000	11.65	34.12	38.75	45.62	52.64	74	-21.36	Vertical	
6051.874	13.04	34.73	38.89	37.44	46.32	74	-27.68	Vertical	
7236.000	14.64	35.58	37.63	32.24	44.83	74	-29.17	Vertical	
9648.000	17.53	37.10	36.29	30.06	48.40	74	-25.60	Vertical	
12422.220	21.25	37.72	37.58	29.90	51.29	74	-22.71	Vertical	
3727.173	10.26	32.61	38.46	38.34	42.75	74	-31.25	Horizontal	
4824.000	11.65	34.12	38.75	46.34	53.36	74	-20.64	Horizontal	
6087.002	13.07	34.74	38.85	36.74	45.70	74	-28.30	Horizontal	
7236.000	14.64	35.58	37.63	32.28	44.87	74	-29.13	Horizontal	
9648.000	17.53	37.10	36.29	30.90	49.24	74	-24.76	Horizontal	
12350.530	21.14	37.70	37.51	29.95	51.28	74	-22.72	Horizontal	

Test mode:		802.11b		Test channel:		Middle		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3716.403	10.25	32.57	38.45	40.72	45.09	74	-28.91	Vertical	
4874.000	11.70	34.17	38.76	43.73	50.84	74	-23.16	Vertical	
5964.939	12.96	34.61	38.95	37.28	45.90	74	-28.10	Vertical	
7311.000	14.82	35.54	37.59	32.06	44.83	74	-29.17	Vertical	
9748.000	17.85	37.10	36.16	30.96	49.75	74	-24.25	Vertical	
12603.270	21.43	37.90	37.75	30.82	52.40	74	-21.60	Vertical	
3716.403	10.25	32.57	38.45	38.25	42.62	74	-31.38	Horizontal	
4874.000	11.70	34.17	38.76	46.25	53.36	74	-20.64	Horizontal	
5982.226	12.97	34.66	38.96	38.20	46.87	74	-27.13	Horizontal	
7311.000	14.82	35.54	37.59	32.27	45.04	74	-28.96	Horizontal	
9748.000	17.85	37.10	36.16	30.88	49.67	74	-24.33	Horizontal	
12603.270	21.43	37.90	37.75	30.65	52.23	74	-21.77	Horizontal	

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Test mode:		802.11b		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3716.403	10.25	32.57	38.45	41.95	46.32	74	-27.68	Vertical			
4924.000	11.75	34.22	38.77	44.24	51.44	74	-22.56	Vertical			
5982.226	12.97	34.66	38.96	37.41	46.08	74	-27.92	Vertical			
7386.000	15.00	35.51	37.56	32.09	45.04	74	-28.96	Vertical			
9848.000	18.17	37.15	36.03	30.81	50.10	74	-23.90	Vertical			
12422.220	21.25	37.72	37.58	30.06	51.45	74	-22.55	Vertical			
3737.975	10.27	32.66	38.46	41.20	45.67	74	-28.33	Horizontal			
4924.000	11.75	34.22	38.77	45.71	52.91	74	-21.09	Horizontal			
5964.939	12.96	34.61	38.95	36.89	45.51	74	-28.49	Horizontal			
7386.000	15.00	35.51	37.56	31.15	44.10	74	-29.90	Horizontal			
9848.000	18.17	37.15	36.03	30.16	49.45	74	-24.55	Horizontal			
12566.850	21.40	37.87	37.72	29.93	51.48	74	-22.52	Horizontal			

Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3716.403	10.25	32.57	38.45	41.81	46.18	74	-27.82	Vertical			
4824.000	11.65	34.12	38.75	38.47	45.49	74	-28.51	Vertical			
5964.939	12.96	34.61	38.95	38.02	46.64	74	-27.36	Vertical			
7236.000	14.64	35.58	37.63	32.87	45.46	74	-28.54	Vertical			
9648.000	17.53	37.10	36.29	30.41	48.75	74	-25.25	Vertical			
12603.270	21.43	37.90	37.75	29.38	50.96	74	-23.04	Vertical			
3737.975	10.27	32.66	38.46	38.94	43.41	74	-30.59	Horizontal			
4824.000	11.65	34.12	38.75	38.28	45.30	74	-28.70	Horizontal			
5947.702	12.94	34.57	38.95	37.92	46.48	74	-27.52	Horizontal			
7236.000	14.64	35.58	37.63	32.52	45.11	74	-28.89	Horizontal			
9648.000	17.53	37.10	36.29	30.66	49.00	74	-25.00	Horizontal			
12386.320	21.19	37.70	37.55	29.55	50.89	74	-23.11	Horizontal			

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Test mode:		802.11g		Test channel:		Middle		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3716.403	10.25	32.57	38.45	43.34	47.71	74	-26.29	Vertical	
4874.000	11.70	34.17	38.76	40.86	47.97	74	-26.03	Vertical	
5964.939	12.96	34.61	38.95	39.41	48.03	74	-25.97	Vertical	
7311.000	14.82	35.54	37.59	33.36	46.13	74	-27.87	Vertical	
9748.000	17.85	37.10	36.16	31.65	50.44	74	-23.56	Vertical	
12603.270	21.43	37.90	37.75	30.19	51.77	74	-22.23	Vertical	
3825.521	10.36	32.93	38.49	38.70	43.50	74	-30.50	Horizontal	
4874.000	11.70	34.17	38.76	43.05	50.16	74	-23.84	Horizontal	
6034.386	13.02	34.72	38.91	37.15	45.98	74	-28.02	Horizontal	
7311.000	14.82	35.54	37.59	31.79	44.56	74	-29.44	Horizontal	
9748.000	17.85	37.10	36.16	30.03	48.82	74	-25.18	Horizontal	
12422.220	21.25	37.72	37.58	28.83	50.22	74	-23.78	Horizontal	

Test mode:		802.11g		Test channel:		Highest		Remark:	Peak
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization	
3487.175	10.02	31.93	38.36	45.06	48.65	74	-25.35	Vertical	
4924.000	11.75	34.22	38.77	39.74	46.94	74	-27.06	Vertical	
5930.516	12.93	34.53	38.95	38.13	46.64	74	-27.36	Vertical	
7386.000	15.00	35.51	37.56	32.53	45.48	74	-28.52	Vertical	
9848.000	18.17	37.15	36.03	33.19	52.48	74	-21.52	Vertical	
12458.220	21.30	37.76	37.61	29.99	51.44	74	-22.56	Vertical	
3737.975	10.27	32.66	38.46	42.65	47.12	74	-26.88	Horizontal	
4924.000	11.75	34.22	38.77	44.46	51.66	74	-22.34	Horizontal	
6051.874	13.04	34.73	38.89	37.34	46.22	74	-27.78	Horizontal	
7386.000	15.00	35.51	37.56	33.27	46.22	74	-27.78	Horizontal	
9848.000	18.17	37.15	36.03	31.10	50.39	74	-23.61	Horizontal	
12458.220	21.30	37.76	37.61	29.77	51.22	74	-22.78	Horizontal	

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Test mode:		802.11n(HT20)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3716.403	10.25	32.57	38.45	44.06	48.43	74	-25.57	Vertical			
4824.000	11.65	34.12	38.75	39.53	46.55	74	-27.45	Vertical			
5982.226	12.97	34.66	38.96	37.90	46.57	74	-27.43	Vertical			
7236.000	14.64	35.58	37.63	33.07	45.66	74	-28.34	Vertical			
9648.000	17.53	37.10	36.29	29.15	47.49	74	-26.51	Vertical			
12458.220	21.30	37.76	37.61	30.42	51.87	74	-22.13	Vertical			
3748.808	10.28	32.70	38.47	38.33	42.84	74	-31.16	Horizontal			
4824.000	11.65	34.12	38.75	38.42	45.44	74	-28.56	Horizontal			
5999.562	12.98	34.70	38.96	37.88	46.60	74	-27.40	Horizontal			
7236.000	14.64	35.58	37.63	32.60	45.19	74	-28.81	Horizontal			
9648.000	17.40	37.10	36.35	28.16	46.31	74	-27.69	Horizontal			
12422.220	21.25	37.72	37.58	29.88	51.27	74	-22.73	Horizontal			

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3716.403	10.25	32.57	38.45	43.41	47.78	74	-26.22	Vertical			
4874.000	11.70	34.17	38.76	41.82	48.93	74	-25.07	Vertical			
6087.002	13.07	34.74	38.85	37.80	46.76	74	-27.24	Vertical			
7311.000	14.82	35.54	37.59	33.62	46.39	74	-27.61	Vertical			
9748.000	17.85	37.10	36.16	31.43	50.22	74	-23.78	Vertical			
12494.320	21.35	37.79	37.65	30.54	52.03	74	-21.97	Vertical			
3759.672	10.29	32.74	38.47	38.40	42.96	74	-31.04	Horizontal			
4874.000	11.70	34.17	38.76	42.53	49.64	74	-24.36	Horizontal			
6104.642	13.09	34.75	38.82	37.75	46.77	74	-27.23	Horizontal			
7311.000	14.82	35.54	37.59	33.72	46.49	74	-27.51	Horizontal			
9748.000	17.85	37.10	36.16	30.71	49.50	74	-24.50	Horizontal			
12566.850	21.40	37.87	37.72	29.85	51.40	74	-22.60	Horizontal			

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Test mode:		802.11n(HT20)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3727.173	10.26	32.61	38.46	48.60	53.01	74	-20.99	Vertical			
4924.000	11.75	34.22	38.77	40.48	47.68	74	-26.32	Vertical			
5982.226	12.97	34.66	38.96	38.40	47.07	74	-26.93	Vertical			
7386.000	15.00	35.51	37.56	33.46	46.41	74	-27.59	Vertical			
9848.000	18.17	37.15	36.03	31.76	51.05	74	-22.95	Vertical			
12494.320	21.35	37.79	37.65	29.72	51.21	74	-22.79	Vertical			
3727.173	10.26	32.61	38.46	41.74	46.15	74	-27.85	Horizontal			
4924.000	11.75	34.22	38.77	41.97	49.17	74	-24.83	Horizontal			
5982.226	12.97	34.66	38.96	37.21	45.88	74	-28.12	Horizontal			
7386.000	15.00	35.51	37.56	32.49	45.44	74	-28.56	Horizontal			
9848.000	18.17	37.15	36.03	31.25	50.54	74	-23.46	Horizontal			
12603.270	21.43	37.90	37.75	30.12	51.70	74	-22.30	Horizontal			

Test mode:		802.11n(HT40)		Test channel:		Lowest		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3727.173	10.26	32.61	38.46	42.96	47.37	74	-26.63	Vertical			
4844.000	11.67	34.14	38.76	42.69	49.74	74	-24.26	Vertical			
5999.562	12.98	34.70	38.96	37.83	46.55	74	-27.45	Vertical			
7266.000	14.71	35.57	37.61	32.63	45.30	74	-28.70	Vertical			
9688.000	17.66	37.10	36.24	30.03	48.55	74	-25.45	Vertical			
12639.790	21.45	37.92	37.79	29.70	51.28	74	-22.72	Vertical			
3684.279	10.22	32.44	38.44	37.86	42.08	74	-31.92	Horizontal			
4844.000	11.67	34.14	38.76	44.53	51.58	74	-22.42	Horizontal			
5947.702	12.94	34.57	38.95	36.93	45.49	74	-28.51	Horizontal			
7266.000	14.71	35.57	37.61	31.94	44.61	74	-29.39	Horizontal			
9688.000	17.66	37.10	36.24	29.66	48.18	74	-25.82	Horizontal			
12350.530	21.14	37.70	37.51	29.33	50.66	74	-23.34	Horizontal			

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Test mode:		802.11n(HT40)		Test channel:		Middle		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3737.975	10.27	32.66	38.46	42.08	46.55	74	-27.45	Vertical			
4874.000	11.70	34.17	38.76	39.22	46.33	74	-27.67	Vertical			
5862.263	12.88	34.36	38.94	38.03	46.33	74	-27.67	Vertical			
7311.000	14.82	35.54	37.59	31.88	44.65	74	-29.35	Vertical			
9748.000	17.85	37.10	36.16	31.45	50.24	74	-23.76	Vertical			
12386.320	21.19	37.70	37.55	29.74	51.08	74	-22.92	Vertical			
3727.173	10.26	32.61	38.46	39.16	43.57	74	-30.43	Horizontal			
4874.000	11.70	34.17	38.76	41.15	48.26	74	-25.74	Horizontal			
5982.226	12.97	34.66	38.96	38.38	47.05	74	-26.95	Horizontal			
7311.000	14.82	35.54	37.59	32.35	45.12	74	-28.88	Horizontal			
9748.000	17.85	37.10	36.16	30.42	49.21	74	-24.79	Horizontal			
12422.220	21.25	37.72	37.58	29.07	50.46	74	-23.54	Horizontal			

Test mode:		802.11n(HT40)		Test channel:		Highest		Remark:		Peak	
Frequency (MHz)	Cable Loss (dB)	Antenna Factor (dB/m)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization			
3716.403	10.25	32.57	38.45	42.89	47.26	74	-26.74	Vertical			
4904.000	11.73	34.21	38.77	43.67	50.84	74	-23.16	Vertical			
5964.939	12.96	34.61	38.95	38.39	47.01	74	-26.99	Vertical			
7356.000	14.93	35.52	37.57	33.64	46.52	74	-27.48	Vertical			
9808.000	18.05	37.11	36.08	31.94	51.02	74	-22.98	Vertical			
12676.420	21.47	37.94	37.82	29.43	51.02	74	-22.98	Vertical			
3652.432	10.18	32.31	38.43	37.57	41.63	74	-32.37	Horizontal			
4904.000	11.73	34.21	38.77	41.38	48.55	74	-25.45	Horizontal			
6016.949	13.00	34.71	38.94	37.34	46.11	74	-27.89	Horizontal			
7356.000	14.93	35.52	37.57	32.29	45.17	74	-28.83	Horizontal			
9808.000	18.05	37.11	36.08	29.74	48.82	74	-25.18	Horizontal			
12458.220	21.30	37.76	37.61	29.22	50.67	74	-23.33	Horizontal			

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Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor
- 2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported .

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2013 11.12		
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)		
Limit:	Frequency	Limit (dBuV/m @3m)	Remark
	30MHz-88MHz	40.0	Quasi-peak Value
	88MHz-216MHz	43.5	Quasi-peak Value
	216MHz-960MHz	46.0	Quasi-peak Value
	960MHz-1GHz	54.0	Quasi-peak Value
	Above 1GHz	54.0	Average Value
		74.0	Peak Value

Test Setup:

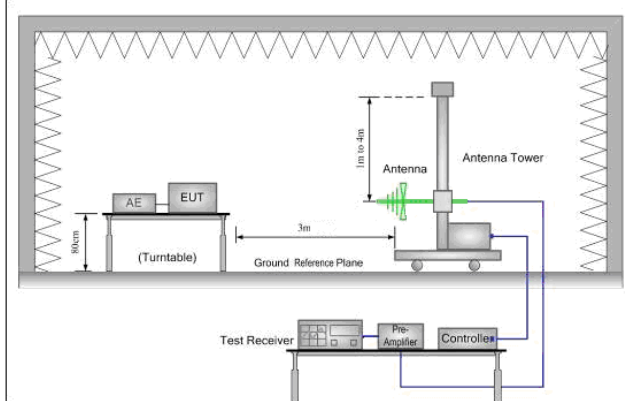


Figure 1. 30MHz to 1GHz

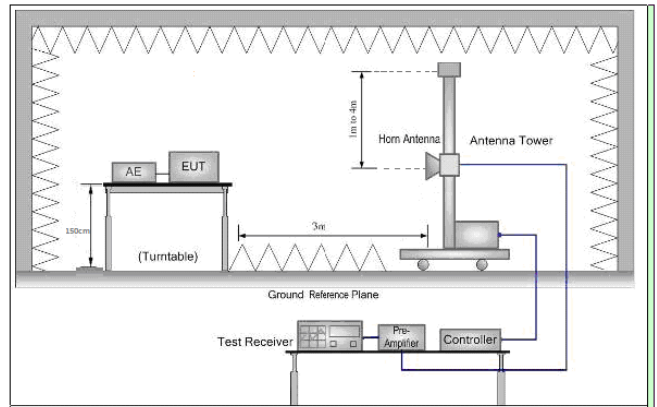


Figure 2. Above 1 GHz



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Test Procedure:	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. g. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel h. Test the EUT in the lowest channel , the Highest channel i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case. j. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode, Charge + Transmitting mode.
Final Test Mode:	Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 6Mbps of rate is the worst case of 802.11g ; 6.5Mbps of rate is the worst case of 802.11n(HT20) ; 13.5Mbps of rate is the worst case of 802.11n(HT40) Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass

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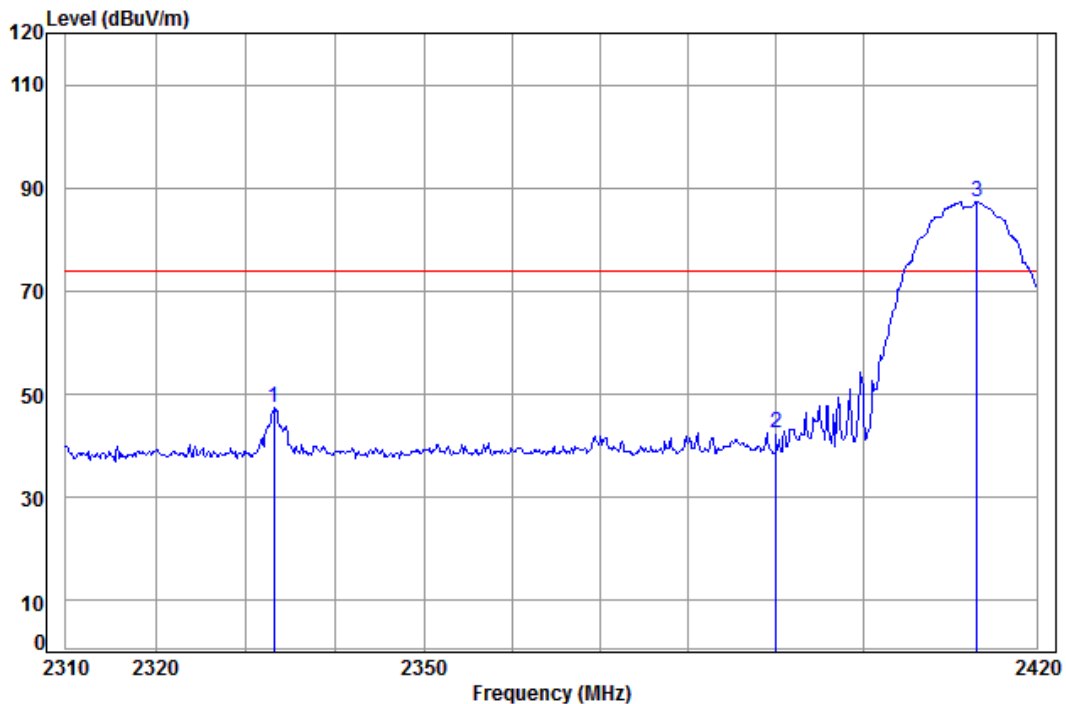
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Test plot as follows:

802.11b

Worse case mode:	Charge +TX	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 7647CR

Mode: : 2412 Band edge

: B

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2333.11	7.33	28.41	38.11	49.86	47.49	74.00	-26.51
2 pk	2390.00	7.40	28.57	38.11	44.70	42.56	74.00	-31.44
3 pp	2413.14	7.44	28.66	38.11	89.33	87.32	74.00	13.32

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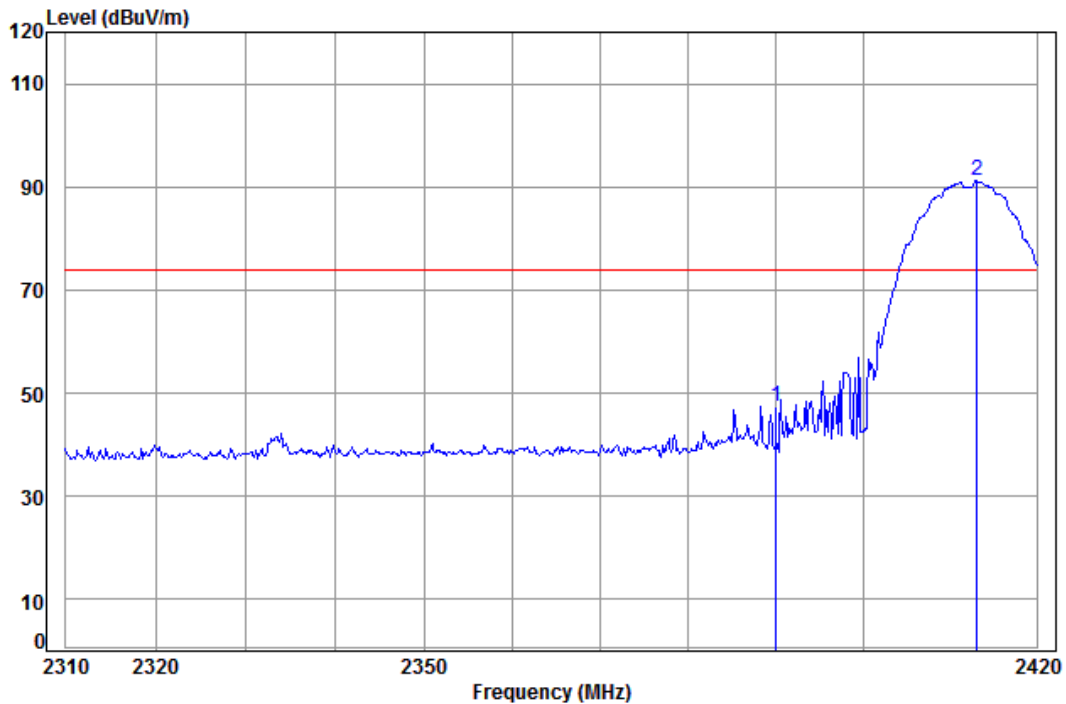


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Worse case mode:	Charge +TX	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal

Job No: : 7647CR

Mode: : 2412 Band edge
: B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pk	2390.00	7.40	28.57	38.11	49.46	47.32	74.00	-26.68
2 pp	2413.14	7.44	28.66	38.11	93.15	91.14	74.00	17.14

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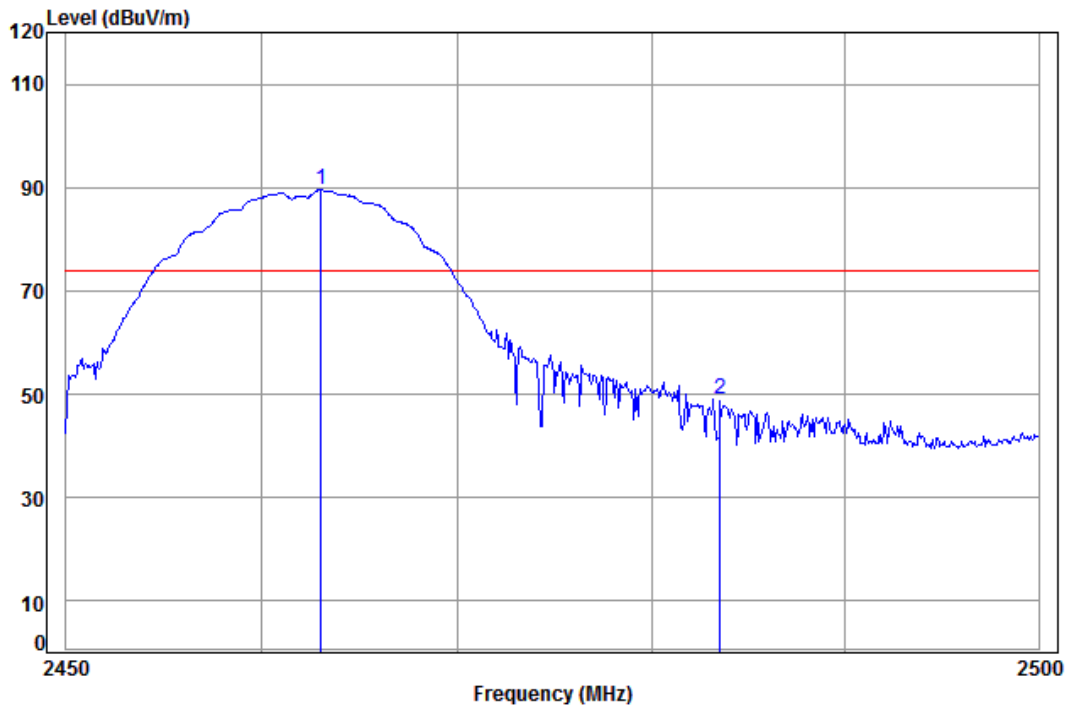


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Worse case mode:	Charge +TX	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 7647CR

Mode: : 2462 Band edge

: B

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2463.00	7.51	28.89	38.12	91.24	89.52	74.00	15.52
2 pk	2483.50	7.52	28.98	38.12	50.76	49.14	74.00	-24.86

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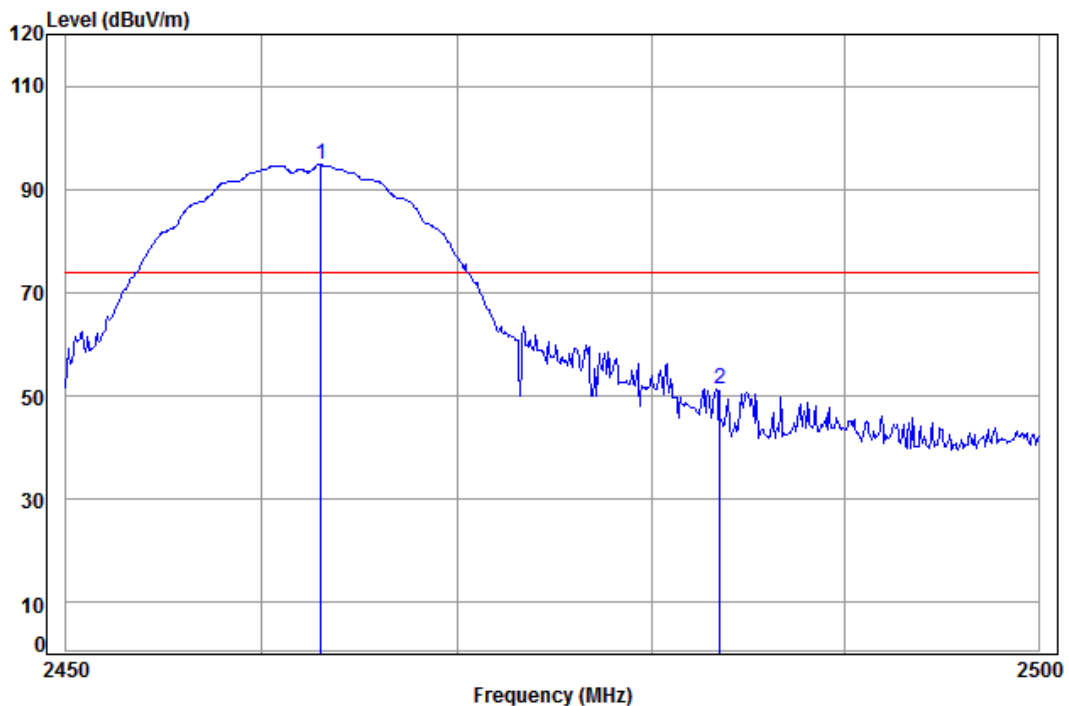


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Worse case mode:	Charge +TX	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal

Job No: : 7647CR

Mode: : 2462 Band edge

: B

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2463.00	7.51	28.89	38.12	96.46	94.74	74.00	20.74
2 pk	2483.50	7.52	28.98	38.12	53.11	51.49	74.00	-22.51



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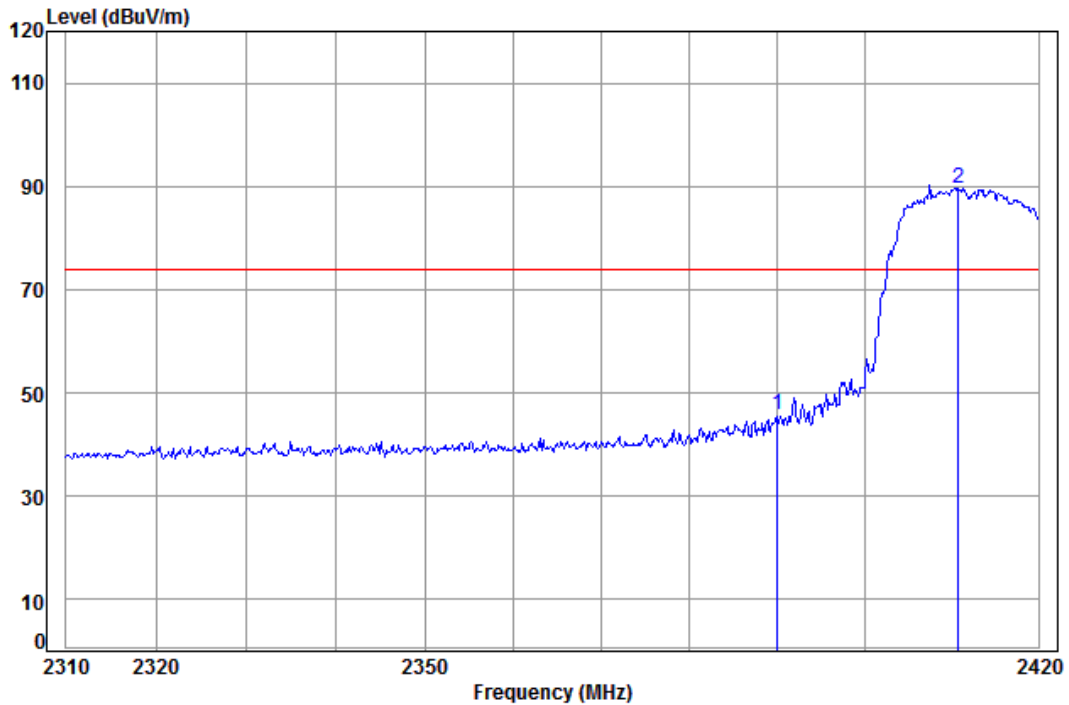
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802.11g

Worse case mode:	Charge +TX	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 7647CR

Mode: : 2412 Band edge

: G

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pk	2390.00	7.40	28.57	38.11	47.87	45.73	74.00	-28.27
2 pp	2410.79	7.43	28.65	38.11	91.74	89.71	74.00	15.71

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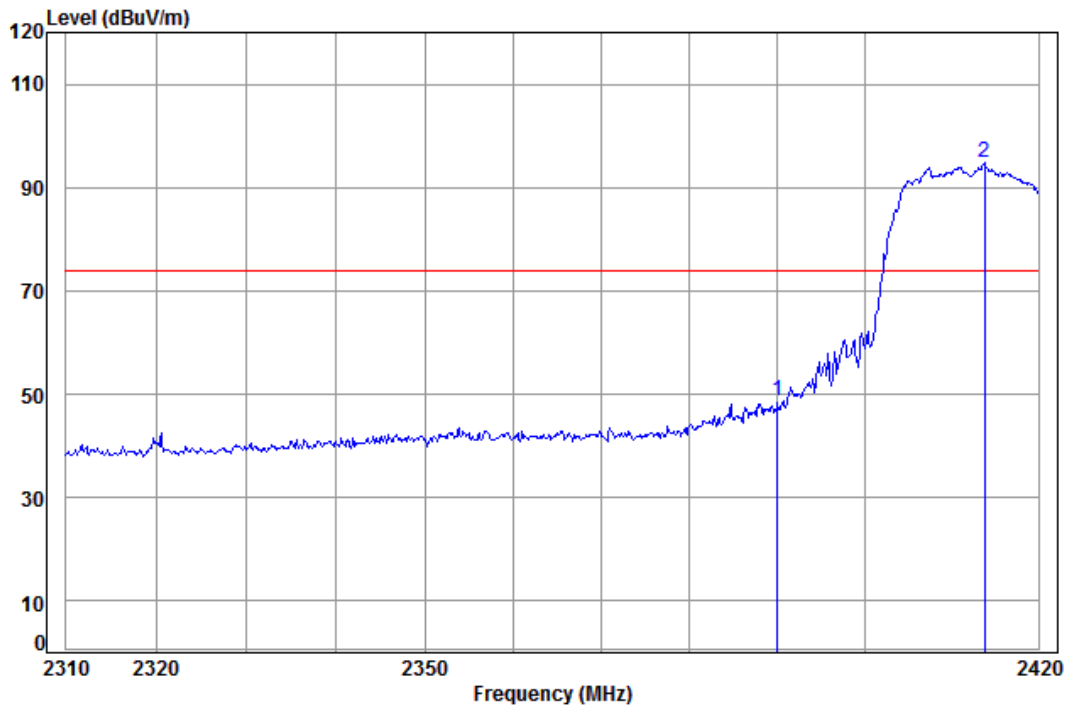


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Worse case mode:	Charge +TX	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal

Job No: : 7647CR

Mode: : 2412 Band edge

: G

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pk	2390.00	7.40	28.57	38.11	50.71	48.57	74.00	-25.43
2 pp	2413.82	7.44	28.66	38.11	96.76	94.75	74.00	20.75

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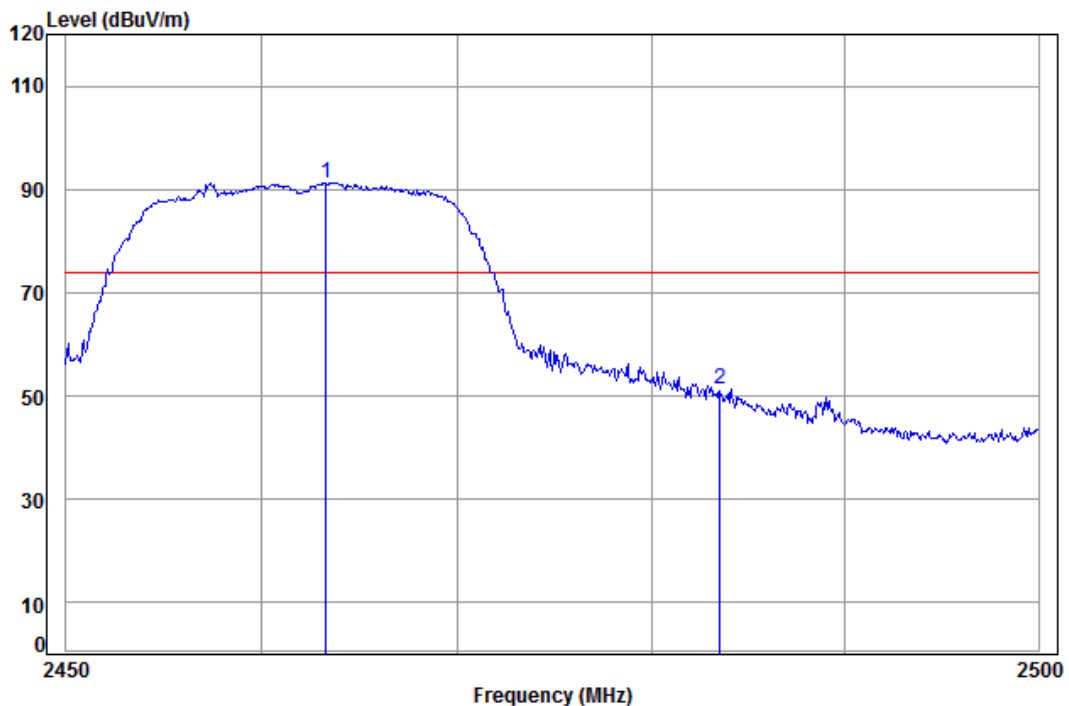


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Worse case mode:	Charge +TX	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 7647CR

Mode: : 2462 Band edge

: G

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2463.25	7.51	28.89	38.12	93.06	91.34	74.00	17.34
2 pk	2483.50	7.52	28.98	38.12	53.11	51.49	74.00	-22.51

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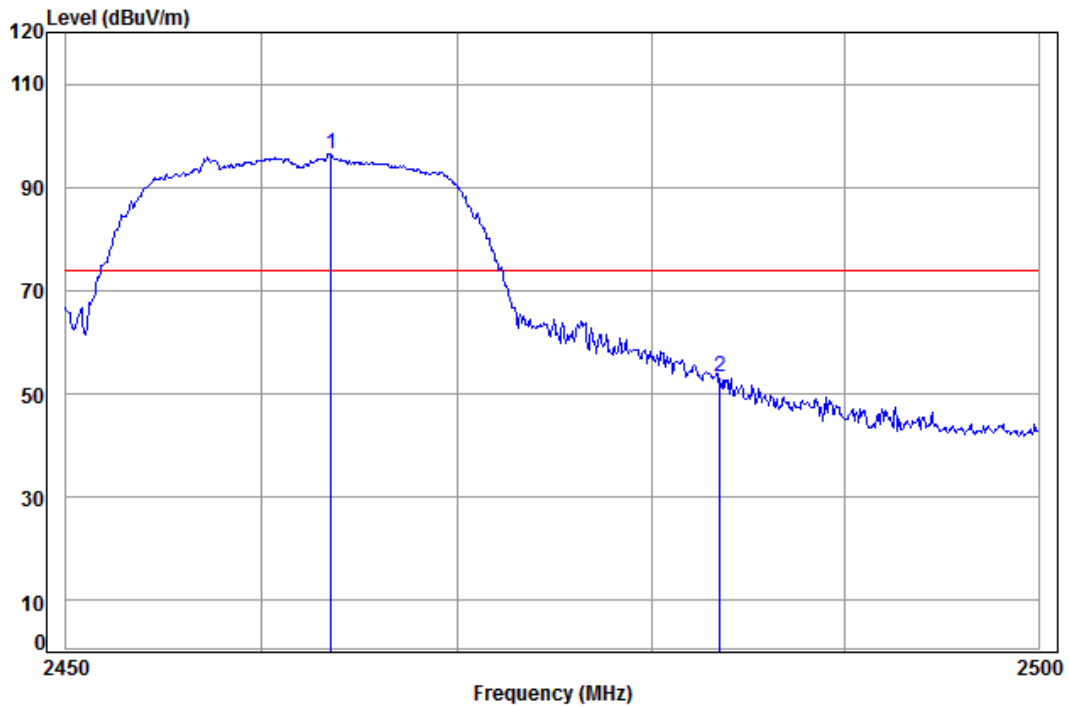


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Worse case mode:	Charge +TX	Test channel:	Highest	Remark:	Peak	Horizontal
------------------	------------	---------------	---------	---------	------	------------



Condition: 3m Horizontal

Job No: : 7647CR

Mode: : 2462 Band edge

: G

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2463.55	7.51	28.89	38.12	98.19	96.47	74.00	22.47
2 pk	2483.50	7.52	28.98	38.12	54.89	53.27	74.00	-20.73

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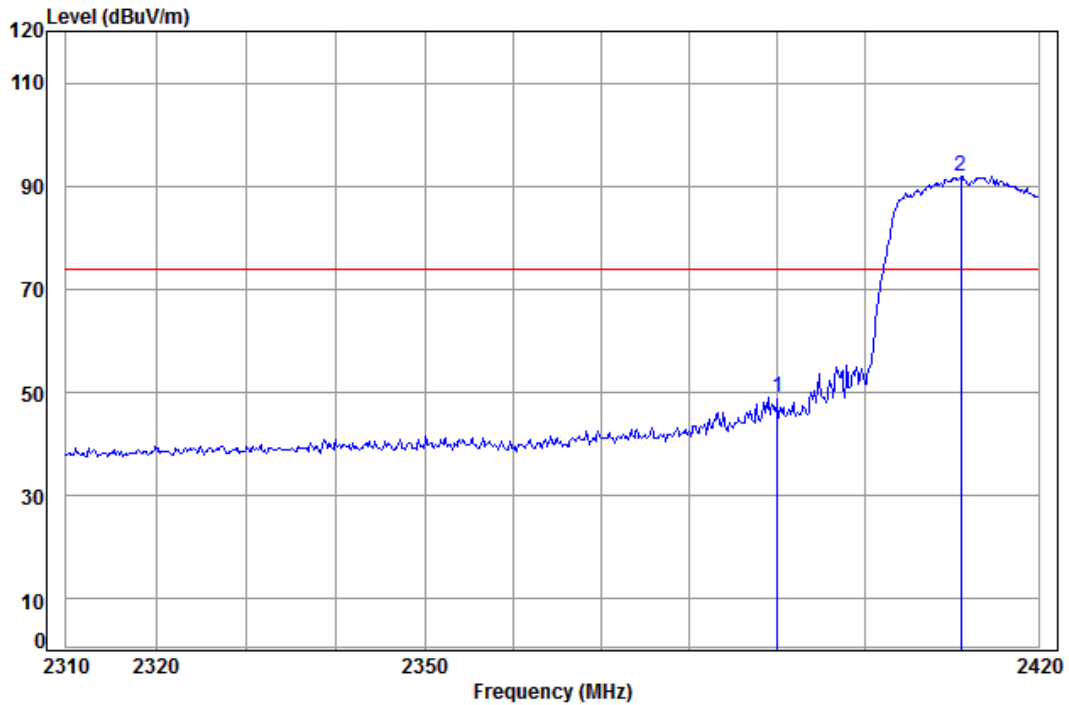
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802.11n(HT20)

Worse case mode:	Charge +TX	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 7647CR

Mode: : 2412 Band edge

: N20

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pk	2390.00	7.40	28.57	38.11	51.14	49.00	74.00	-25.00
2 pp	2411.01	7.43	28.65	38.11	93.96	91.93	74.00	17.93

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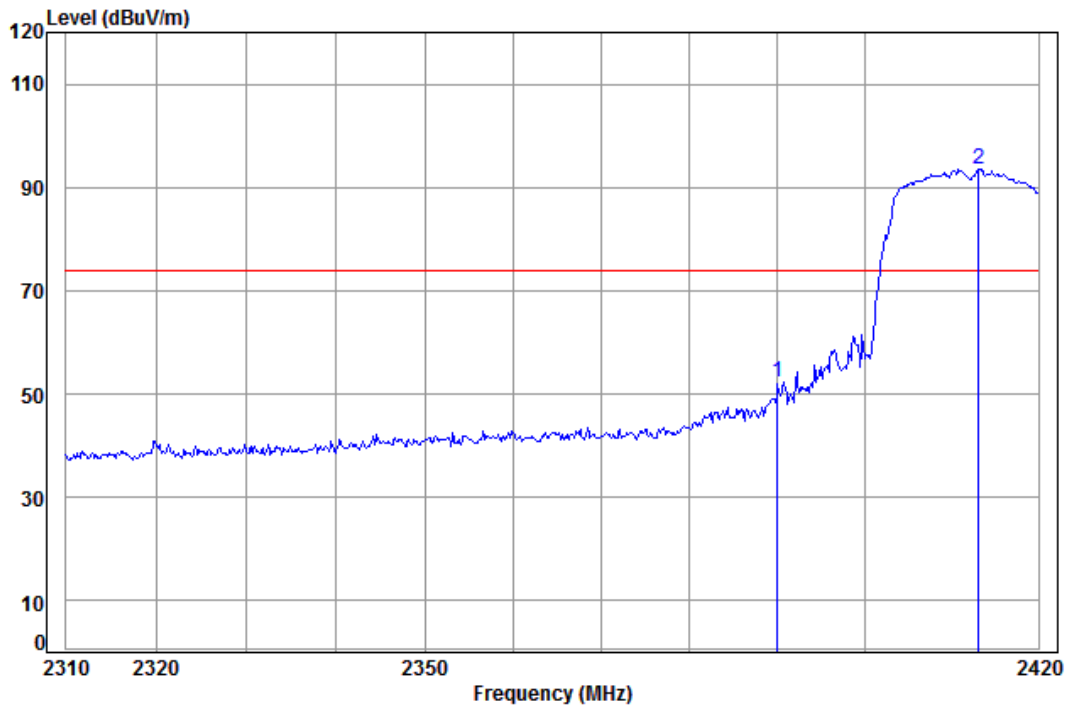


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Worse case mode:	Charge +TX	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal

Job No: : 7647CR

Mode: : 2412 Band edge

: N20

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pk	2390.00	7.40	28.57	38.11	54.62	52.48	74.00	-21.52
2 pp	2413.14	7.44	28.66	38.11	95.52	93.51	74.00	19.51

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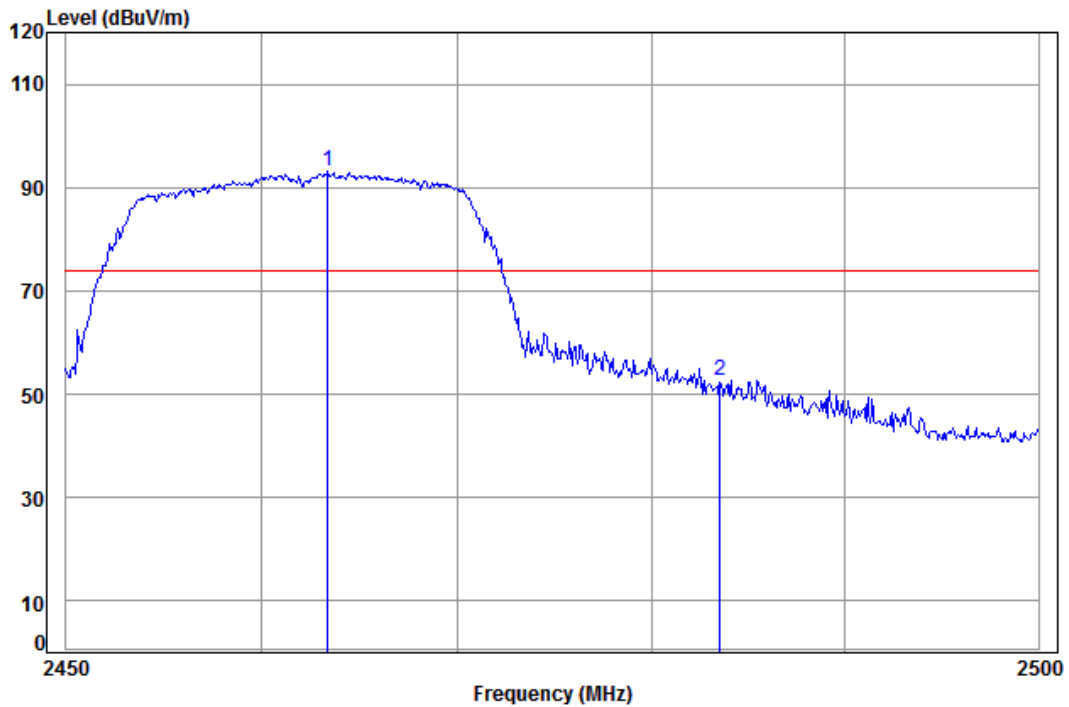


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Shenzhen Branch

Report No.: SZEM151200764701

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Worse case mode:	Charge +TX	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 7647CR

Mode: : 2462 Band edge

: N20

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2463.35	7.51	28.89	38.12	94.75	93.03	74.00	19.03
2 pk	2483.50	7.52	28.98	38.12	54.12	52.50	74.00	-21.50

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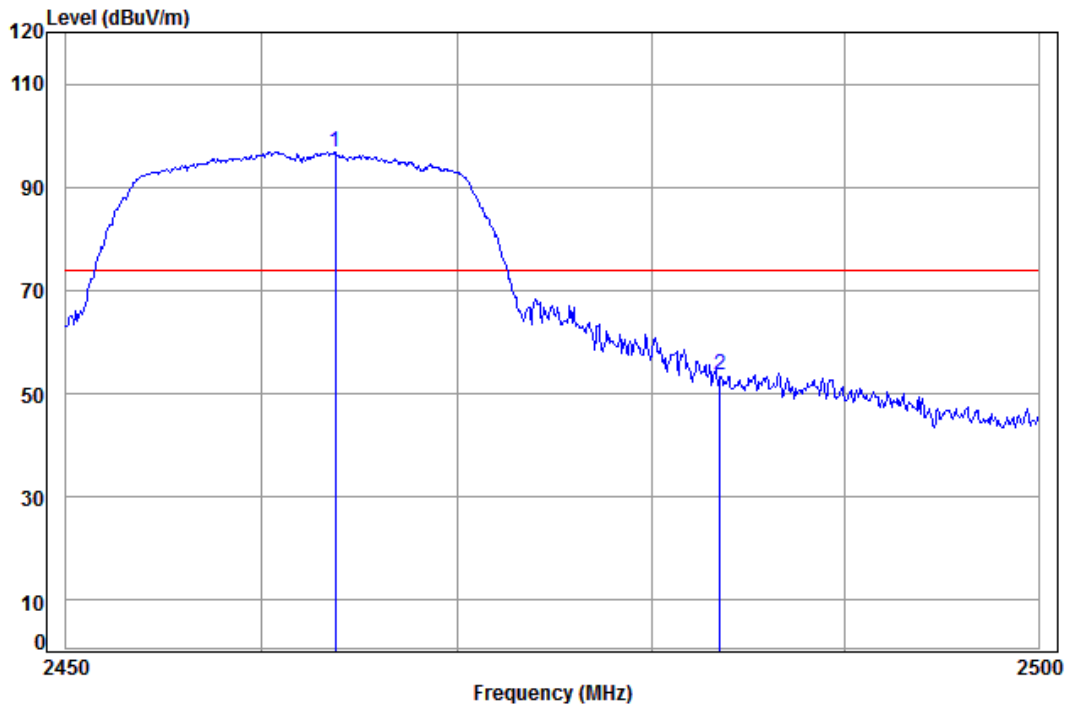


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Worse case mode:	Charge +TX	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal

Job No: : 7647CR

Mode: : 2462 Band edge

: N20

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2463.75	7.51	28.89	38.12	98.47	96.75	74.00	22.75
2 pk	2483.50	7.52	28.98	38.12	55.21	53.59	74.00	-20.41

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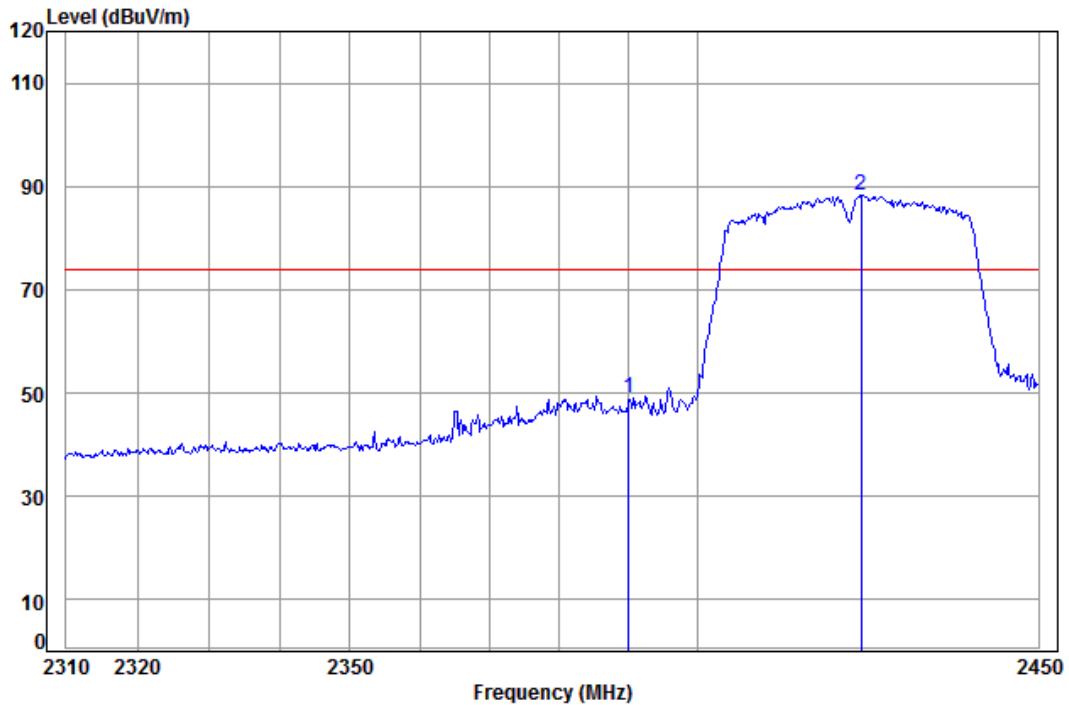
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802.11n(HT40)

Worse case mode:	Charge +TX	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 7647CR

Mode: : 2422 Band edge

: N40

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pk	2390.00	7.40	28.57	38.11	51.22	49.08	74.00	-24.92
2 pp	2423.90	7.46	28.71	38.11	90.26	88.32	74.00	14.32

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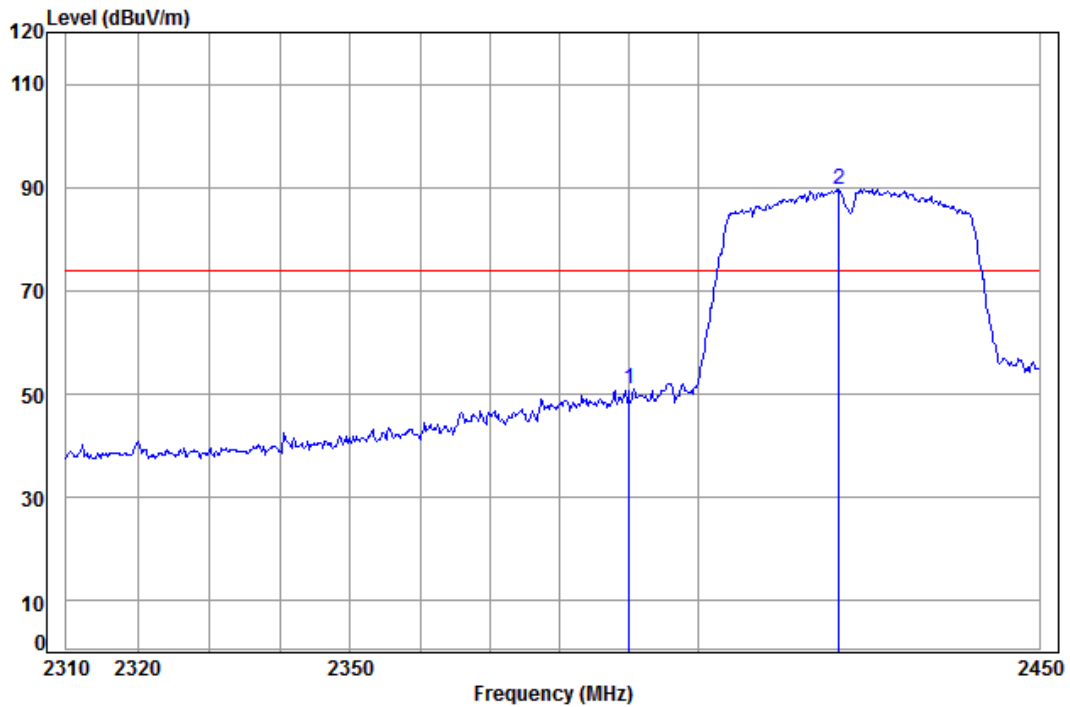


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Worse case mode:	Charge +TX	Test channel:	Lowest	Remark:	Peak	Horizontal
------------------	------------	---------------	--------	---------	------	------------



Condition: 3m Horizontal

Job No: : 7647CR

Mode: : 2422 Band edge

: N40

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pk	2390.00	7.40	28.57	38.11	53.24	51.10	74.00	-22.90
2 pp	2420.48	7.46	28.70	38.11	91.47	89.52	74.00	15.52



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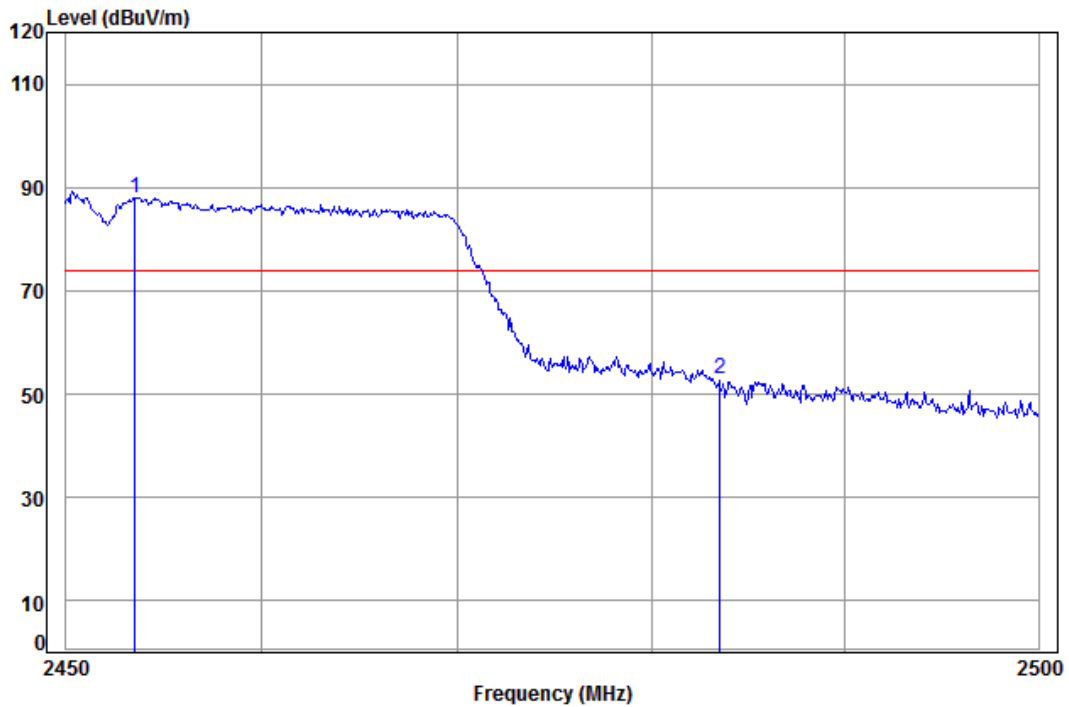


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Worse case mode:	Charge +TX	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m Vertical

Job No: : 7647CR

Mode: : 2452 Band edge

: N40

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2453.52	7.52	28.85	38.12	89.86	88.11	74.00	14.11
2 pk	2483.50	7.52	28.98	38.12	54.55	52.93	74.00	-21.07

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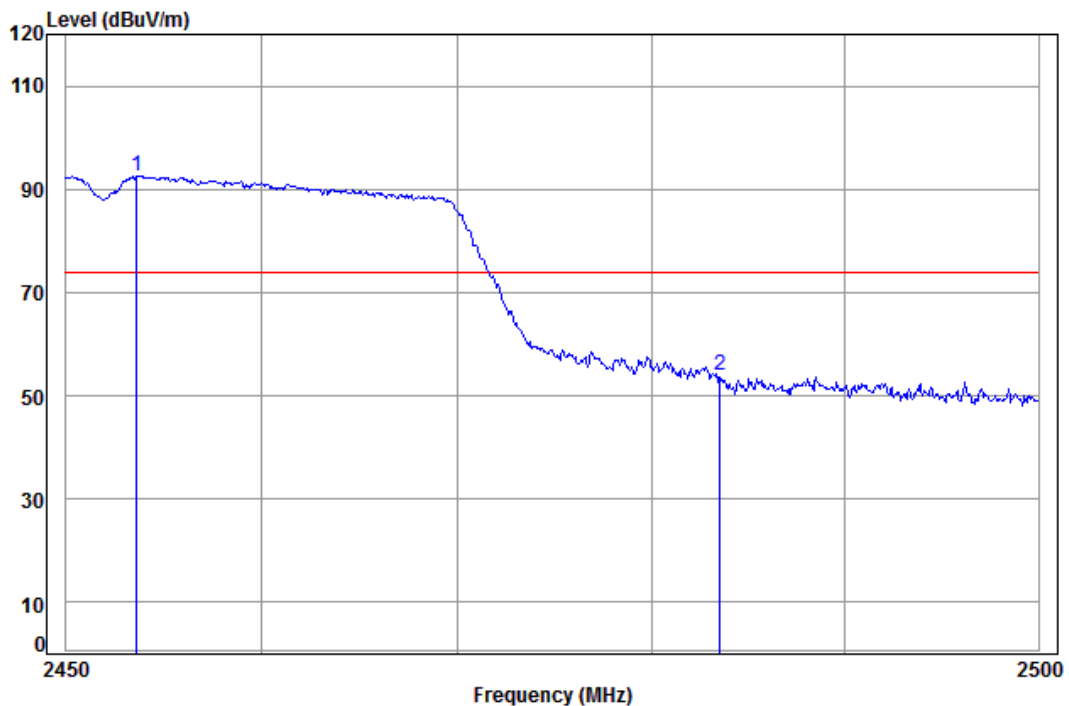


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Worse case mode:	Charge +TX	Test channel:	Highest	Remark:	Peak	Horizontal
------------------	------------	---------------	---------	---------	------	------------



Condition: 3m Horizontal

Job No: : 7647CR

Mode: : 2452 Band edge

: N40

		Cable	Ant	Preamp	Read		Limit	Over
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2453.62	7.52	28.85	38.12	94.25	92.50	74.00	18.50
2 pk	2483.50	7.52	28.98	38.12	55.50	53.88	74.00	-20.12

Note:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

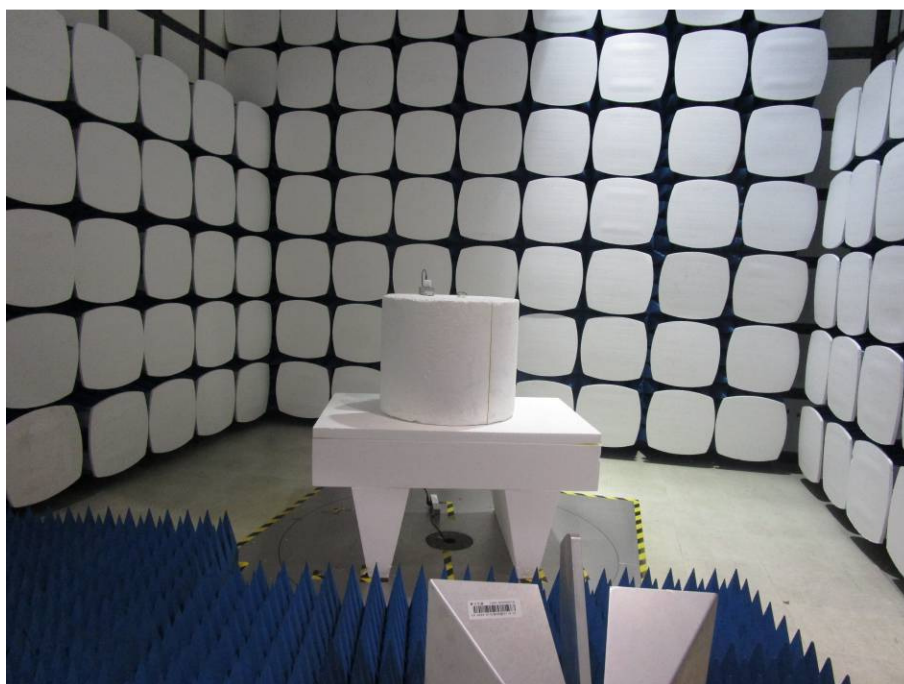
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

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7 Photographs - EUT Test Setup

Test model No.: NW3219

7.1 Radiated Spurious Emission



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7.2 Conducted Emission





8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1512007647CR