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Report No.: SZEM141000589202
Page: 1 of 165

FCC REPORT

Application No: SZEM1410005892CR
Applicant: Flyingvoice Technology Co., Ltd.
Manufacturer/Factory: Flyingvoice Technology Co., Ltd.
Product Name: VoIP Wireless Router
Model No.(EUT): G902P
Add Model No.: APX9122P, APX9122, APX9120, APX9100, G902, G901P, G901, G900P, G900
FCC ID: 2AATVG902
Standards: 47 CFR Part 15, Subpart C (2014)
Date of Receipt: 2014-11-04
Date of Test: 2014-11-13 to 2015-01-04
Date of Issue: 2015-01-09

Test Result:	PASS *
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. * 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.

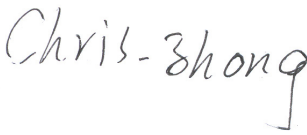
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.


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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-01-09		Original

Authorized for issue by:			
Tested By		 _____ (Chris Zhong) /Project Engineer	2015-01-04

Prepared By		 _____ (Sade Luo) /Clerk	2015-01-09

Checked By		 _____ (Emen Li) /Reviewer	2015-01-09

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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 2009	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2009	PASS
Conducted Peak Output Power	47 CFR Part 15, Subpart C Section 15.247 (b)(3)	KDB558074 D01 v03r02 KDB662911 D01Multiple Transmitter Output v02r01	PASS
6dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.247 (a)(2)	KDB558074 D01 v03r02	PASS
Power Spectral Density	47 CFR Part 15, Subpart C Section 15.247 (e)	KDB558074 D01 v03r02 KDB662911 D01Multiple Transmitter Output v02r01	PASS
Band-edge for RF Conducted Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02 KDB662911 D01Multiple Transmitter Output v02r01	PASS
RF Conducted Spurious Emissions	47 CFR Part 15, Subpart C Section 15.247(d)	KDB558074 D01 v03r02 KDB662911 D01Multiple Transmitter Output v02r01	PASS
Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15, Subpart C Section 15.205/15.209	ANSI C63.10 2009	PASS

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Remark:

- 1) Model No.: G902P, APX9122P, APX9122, APX9120, APX9100, G902, G901P, G901, G900P, G900. Only the model G902P was tested, since the circuitry design, PCB layout, electrical components used, internal wiring and functions were identical for all above models. Only different on model No., color and decorations;
- 2) Other than **AC Power Line Conducted Emission** and **Radiated Spurious Emissions** items, through pre-scan all adapter and find the **No. : SW36-12003000-W** adapter which is the worst case, so only this adapter is used during those test and only this adapter test data include in this report.



4 Contents

	Page
1 COVER PAGE	1
2 VERSION.....	2
3 TEST SUMMARY	3
4 CONTENTS	5
5 GENERAL INFORMATION.....	6
5.1 CLIENT INFORMATION.....	6
5.2 GENERAL DESCRIPTION OF EUT	6
5.3 TEST ENVIRONMENT AND MODE.....	8
5.4 DESCRIPTION OF SUPPORT UNITS	8
5.5 TEST LOCATION	8
5.6 TEST FACILITY	9
5.7 DEVIATION FROM STANDARDS.....	9
5.8 ABNORMALITIES FROM STANDARD CONDITIONS	9
5.9 OTHER INFORMATION REQUESTED BY THE CUSTOMER	9
5.10 EQUIPMENT LIST	10
6 TEST RESULTS AND MEASUREMENT DATA.....	13
6.1 ANTENNA REQUIREMENT	13
6.2 CONDUCTED EMISSIONS	14
6.3 CONDUCTED PEAK OUTPUT POWER.....	34
6.4 6dB OCCUPY BANDWIDTH.....	38
6.5 POWER SPECTRAL DENSITY	46
6.6 BAND-EDGE FOR RF CONDUCTED EMISSIONS.....	60
6.7 RF CONDUCTED SPURIOUS EMISSIONS	65
6.8 RADIATED SPURIOUS EMISSIONS.....	90
6.8.1 Radiated emission below 1GHz.....	93
6.8.2 Transmitter emission above 1GHz.....	111
6.9 RESTRICTED BANDS AROUND FUNDAMENTAL FREQUENCY.....	130
7 PHOTOGRAPHS - EUT TEST SETUP	164
7.1 RADIATED SPURIOUS EMISSION	164
7.2 CONDUCTED EMISSION	165
8 PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS.....	165



5 General Information

5.1 Client Information

Applicant:	Flyingvoice Technology Co., Ltd.
Address of Applicant:	Room 202, Chuangxin Bldg A#, No.12 Hongda North Rd, BDA, Beijing, China
Manufacturer:	Flyingvoice Technology Co., Ltd.
Address of Manufacturer:	Room 202, Chuangxin Bldg A#, No.12 Hongda North Rd, BDA, Beijing, China
Factory:	Flyingvoice Technology Co., Ltd.
Address of Factory:	Room 202, Chuangxin Bldg A#, No.12 Hongda North Rd, BDA, Beijing, China

5.2 General Description of EUT

Product Name:	VoIP Wireless Router	
Model No.:	G902P	
Operation Frequency:	IEEE 802.11b/g/n(HT20): 2412MHz to 2462MHz IEEE 802.11n(HT40): 2422MHz to 2452MHz	
Channel Numbers:	IEEE 802.11b/g, IEEE 802.11n HT20: 11 Channels IEEE 802.11n HT40: 7 Channels	
Channel Separation:	5MHz	
Type of Modulation:	IEEE for 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE for 802.11g : OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE for 802.11n(HT20 and HT40) : OFDM (64QAM, 16QAM, QPSK,BPSK)	
Sample Type:	Fixed production	
Test Power Grade:	11B :15dBm 11G :16 dBm 11N(20) :15 dBm 11N(40) :15 dBm (manufacturer declare)	
Antenna Type and Gain:	Type: Integral Gain:5dBi	
Power Supply:	Adapter:	M/N : S24B12-120A200-Y4 Input: AC 100V-240V 50-60Hz 0.7A Output: DC 12V 2A
	Alternative adapter:	M/N : SW36-12003000-W Input: AC 100V-240V 50-60Hz 1.5A Output: DC 12V 3.0A
	Alternative adapter:	M/N : WHF-1200300T3 Input: AC 100V-240V 50-60Hz 1.0A Output: DC 12V 3.0A



DC output cable:	140cm (Unshielded) (MODEL: S24B12-120A200-Y4)
DC output cable :	144cm Unshielded with a ferrite core (MODEL: SW36-12003000-W)
DC output cable :	146cm Unshielded (MODEL: WHF-1200300T3)

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	Channel	Frequency
1	2422MHz	4	2437MHz	7	2452MHz
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

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5.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	55 % RH
Atmospheric Pressure:	1020 mbar
Test mode:	
Transmitting mode:	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.
Note: During the test, we use the PC to configure the power, modulation, data rate and channels.	

5.4 Description of Support Units

The EUT has been tested with associated equipment below.

Description	Manufacturer	Model No.
PC	Supply by client	DCSM
Lan cable	Supply by SGS	N/A
Mouse	IBM	MO28UO
Keyboard	IBM	KB-0225
Phone(Just used for Conducted Emission and Radiated Spurious Emissions test items)	PHILIPS	HCD1888(11)TSD

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.

- **VCCI**

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) 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)**

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

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.Due date (yyyy-mm-dd)
1	Shielding Room	ZhongYu Electron	GB-88	SEL0042	2015-06-10
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2015-05-16
4	8 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T8-02	SEL0162	2015-08-30
5	4 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T4-02	SEL0163	2015-08-30
6	2 Line ISN	Fischer Custom Communications Inc.	FCC-TLISN-T2-02	SEL0164	2015-08-30
7	EMI Test Receiver	Rohde & Schwarz	ESCI	SEL0022	2015-05-16
8	Coaxial Cable	SGS	N/A	SEL0025	2015-05-29
9	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
10	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24
11	Barometer	Chang Chun	DYM3	SEL0088	2015-05-16

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RE in Chamber					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEL0017	2015-06-10
2	Spectrum Analyzer	Rohde & Schwarz	FSU43	SEL0270	2015-07-28
3	EMI Test software	AUDIX	E3	SEL0050	N/A
4	BiConiLog Antenna (26-3000MHz)	ETS-LINDGREN	3142C	SEL0015	2015-10-24
5	Double-ridged horn (1-18GHz)	ETS-LINDGREN	3117	SEL0006	2015-10-24
6	Horn Antenna (18-26GHz)	ETS-LINDGREN	3160	SEL0076	2015-10-24
7	Horn Antenna(26GHz-40GHz)	A.H.Systems, inc.	SAS-573	SEL0349	2016-03-20
8	Pre-amplifier (0.1-1300MHz)	Agilent Technologies	8447D	SEL0053	2015-05-16
9	Pre-Amplifier (0.1-26.5GHz)	Compliance Directions Systems Inc.	PAP-0126	SEL0168	2015-10-24
10	Pre-amplifier(26GHz-40GHz)	Compliance Directions Systems Inc.	PAP-2640-50	SEL0350	2016-03-20
11	Coaxial cable	SGS	N/A	SEL0027	2015-05-29
12	Coaxial cable	SGS	N/A	SEL0189	2015-05-29
13	Coaxial cable	SGS	N/A	SEL0121	2015-05-29
14	Coaxial cable	SGS	N/A	SEL0178	2015-05-29
15	Band filter	Amindeon	82346	SEL0094	2015-05-16
16	Barometer	Chang Chun	DYM3	SEL0088	2015-05-16
17	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
18	Humidity/ Temperature Indicator	Shanghai Qixiang	ZJ1-2B	SEL0103	2015-10-24
19	Signal Generator (10M-27GHz)	Rohde & Schwarz	SMR27	SEL0067	2015-05-16
20	Signal Generator	Rohde & Schwarz	SMY01	SEL0155	2015-10-24
21	Loop Antenna	Beijing Daze	ZN30401	SEL0203	2015-06-04



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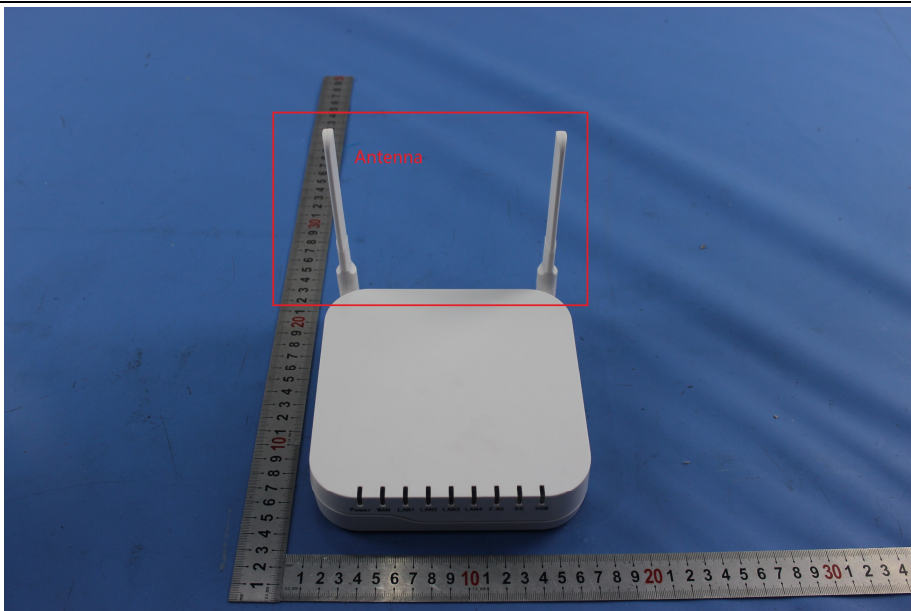


RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2015-05-29
5	Coaxial cable	SGS	N/A	SEL0179	2015-05-29
6	Barometer	ChangChun	DYM3	SEL0088	2015-05-16
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2015-05-16
8	Band filter	amideon	82346	SEL0094	2015-05-16
9	POWER METER	R & S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2015-05-16
11	Power Divider(splitter)	Agilent Technologies	11636B	SEL0130	2015-10-24

Note: The calibration interval is one year, all the instruments are valid.

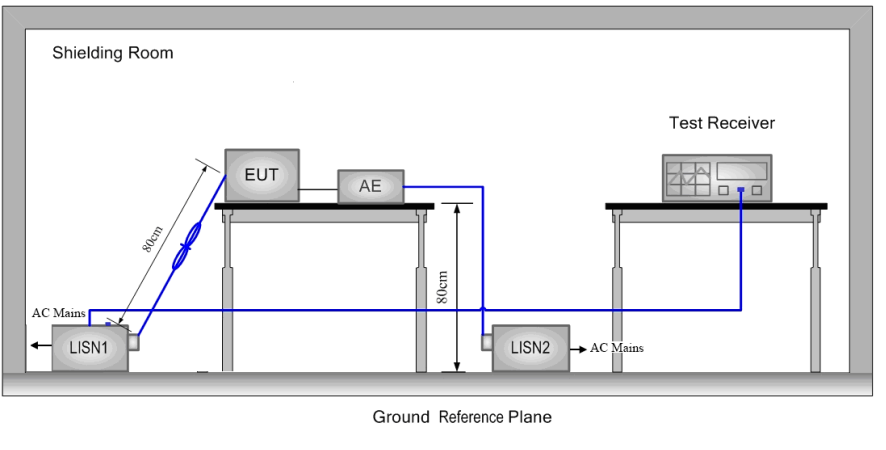
6 Test results and Measurement Data

6.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
<p>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.</p> <p>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.</p>	
EUT Antenna:	
<p>The antenna is integral antenna and no consideration of replacement. The best case gain of the antenna is 5dBi.</p>	

6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2009		
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:	<ol style="list-style-type: none"> 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: 2009 on conducted measurement. 		

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

Measurement Data

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

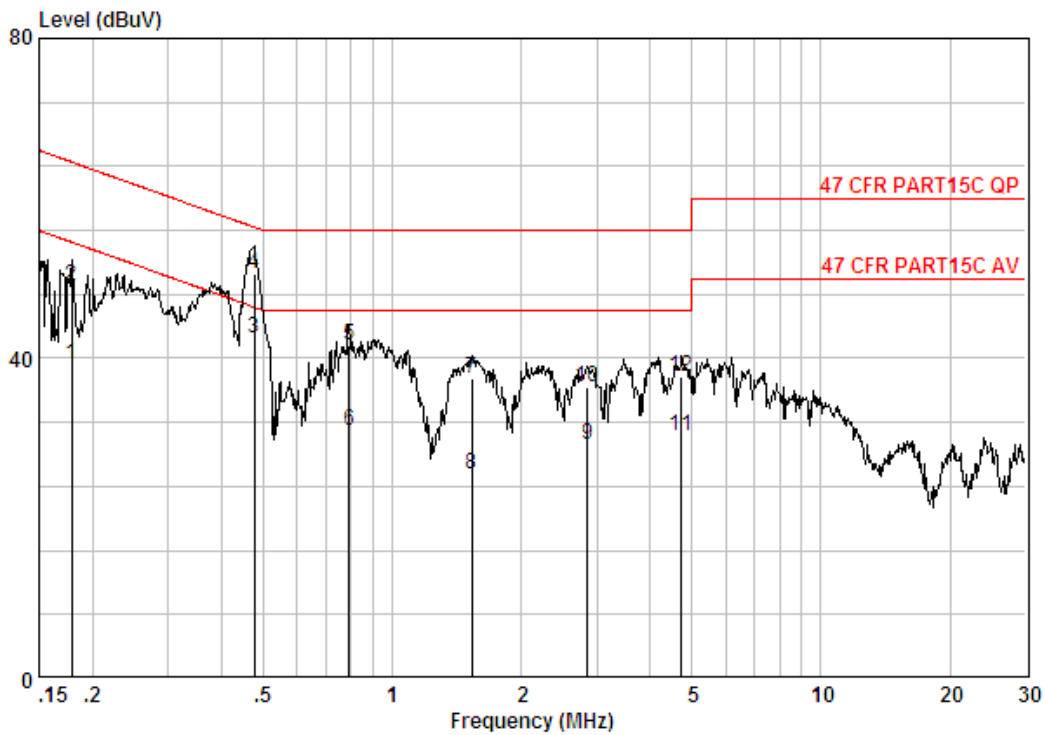
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.

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S24B12-120A200-Y4:

Live Line:



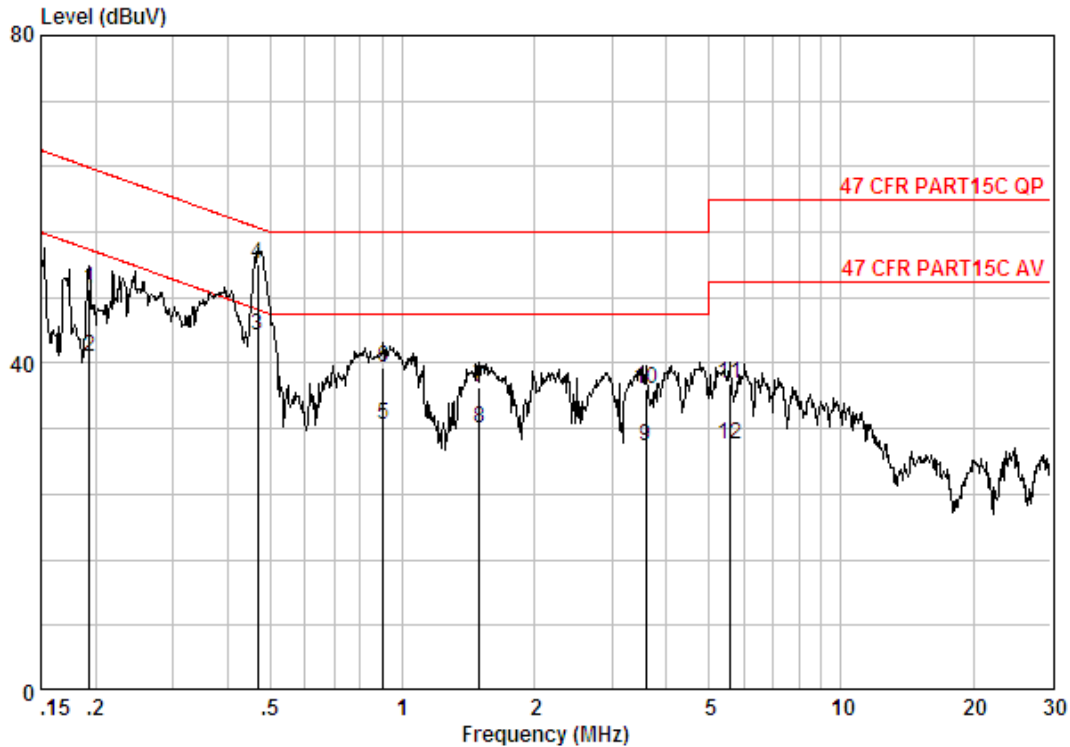
Site : Shielding Room
 Condition : 47 CFR PART15C QP CE LINE
 Job.No : 5892CR
 Mode : 2412TX
 : S24B12-120A200-Y4

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17866	0.02	9.70	29.62	39.34	54.55	-15.21	Average
2	0.17866	0.02	9.70	39.32	49.04	64.55	-15.51	QP
3 @	0.47600	0.01	9.80	32.60	42.41	46.41	-4.00	Average
4 @	0.47600	0.01	9.80	40.87	50.68	56.41	-5.73	QP
5	0.79180	0.02	9.80	31.85	41.67	56.00	-14.33	QP
6	0.79180	0.02	9.80	21.22	31.04	46.00	-14.96	Average
7	1.535	0.02	9.80	27.78	37.60	56.00	-18.41	QP
8	1.535	0.02	9.80	15.60	25.42	46.00	-20.58	Average
9	2.854	0.02	9.84	19.26	29.12	46.00	-16.88	Average
10	2.854	0.02	9.84	26.54	36.40	56.00	-19.60	QP
11	4.721	0.01	9.89	20.41	30.31	46.00	-15.69	Average
12	4.721	0.01	9.89	27.89	37.80	56.00	-18.20	QP

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Neutral Line:



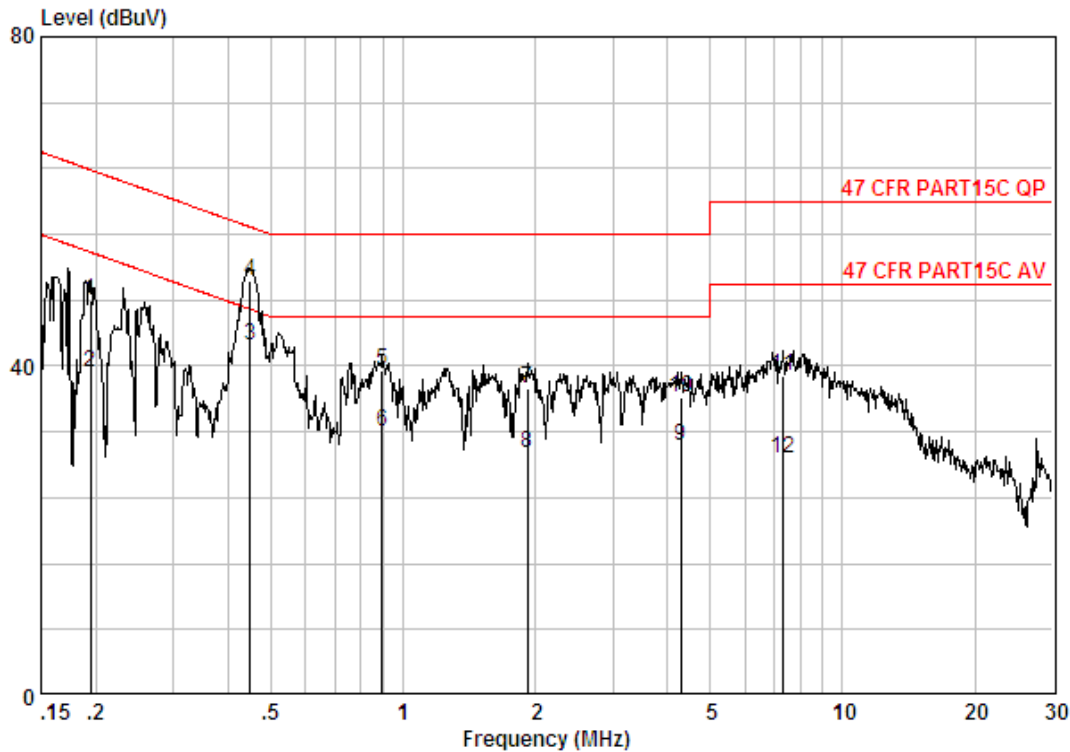
Site : Shielding Room
 Condition : 47 CFR PART15C QP CE NEUTRAL
 Job.No : S892CR
 Mode : 2412TX
 : S24B12-120A200-Y4

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19344	0.02	9.70	39.39	49.11	63.89	-14.78	QP
2	0.19344	0.02	9.70	31.13	40.85	53.89	-13.03	Average
3 @	0.46800	0.01	9.80	33.50	43.31	46.55	-3.24	Average
4 @	0.46800	0.01	9.80	42.20	52.01	56.55	-4.54	QP
5	0.90394	0.02	9.80	22.65	32.47	46.00	-13.53	Average
6	0.90394	0.02	9.80	29.59	39.41	56.00	-16.59	QP
7	1.495	0.02	9.80	27.14	36.96	56.00	-19.04	QP
8	1.495	0.02	9.80	22.30	32.12	46.00	-13.88	Average
9	3.584	0.02	9.86	19.90	29.78	46.00	-16.22	Average
10	3.584	0.02	9.86	26.99	36.87	56.00	-19.13	QP
11	5.594	0.01	9.93	27.64	37.58	60.00	-22.42	QP
12	5.594	0.01	9.93	20.18	30.12	50.00	-19.88	Average

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Live Line:



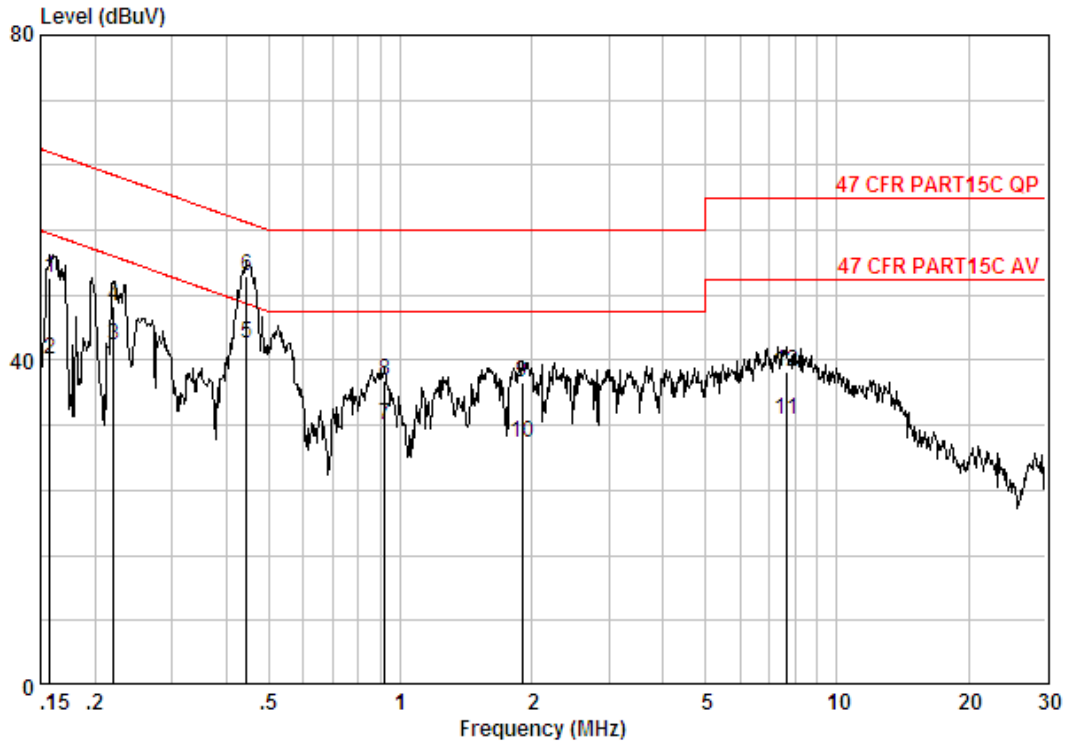
Site : Shielding Room
Condition : 47 CFR PART15C QP CE LINE
Job.No : 5892CR
Mode : 2437 TX mode
Adapter : S24B12-120A200-Y4

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.19447	0.02	9.70	38.28	48.00	63.84	-15.85 QP
2	0.19447	0.02	9.70	29.56	39.28	53.84	-14.56 Average
3 @	0.44900	0.01	9.80	32.80	42.61	46.89	-4.28 Average
4	0.44900	0.01	9.80	40.60	50.41	56.89	-6.48 QP
5	0.89441	0.02	9.80	29.55	39.37	56.00	-16.63 QP
6	0.89441	0.02	9.80	22.30	32.12	46.00	-13.88 Average
7	1.918	0.02	9.80	27.52	37.34	56.00	-18.66 QP
8	1.918	0.02	9.80	19.56	29.38	46.00	-16.62 Average
9	4.292	0.01	9.88	20.30	30.20	46.00	-15.80 Average
10	4.292	0.01	9.88	26.27	36.17	56.00	-19.83 QP
11	7.329	0.01	10.00	28.90	38.91	60.00	-21.10 QP
12	7.329	0.01	10.00	18.85	28.86	50.00	-21.14 Average

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Neutral Line:



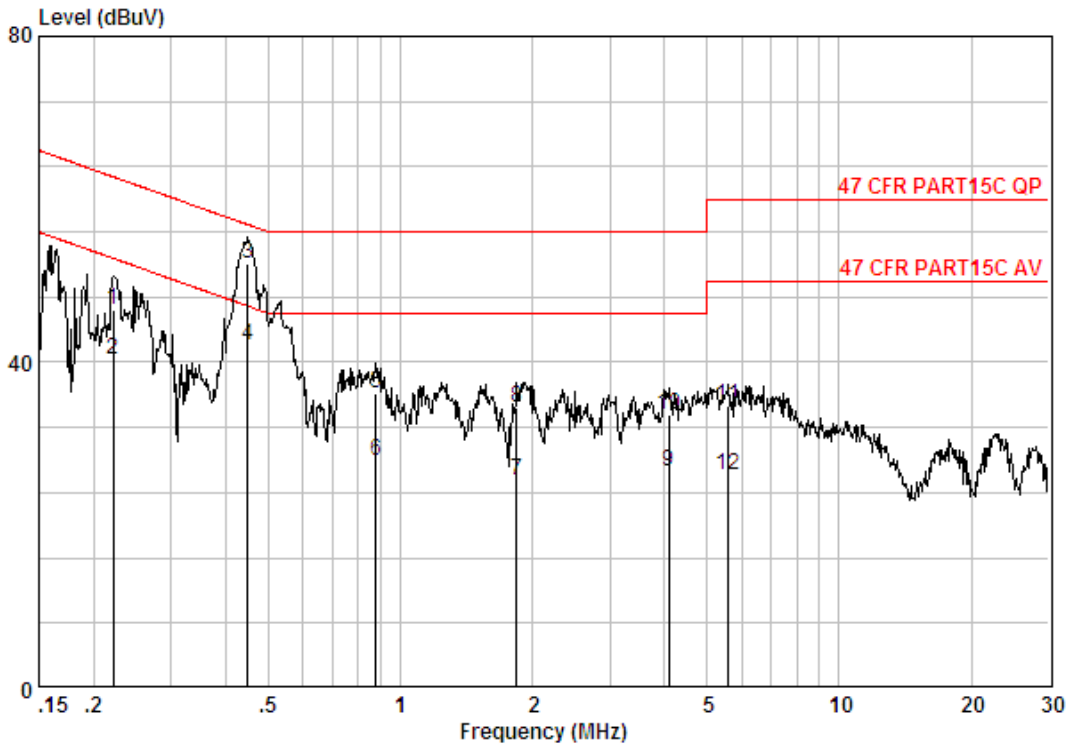
Site : Shielding Room
Condition : 47 CFR PART15C QP CE NEUTRAL
Job.No : 5892CR
Mode : 2437 TX mode
Adapter : S24B12-120A200-Y4

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15733	0.02	9.70	40.42	50.14	65.60	-15.47	QP
2	0.15733	0.02	9.70	30.34	40.06	55.60	-15.54	Average
3	0.22083	0.02	9.70	32.03	41.75	52.79	-11.04	Average
4	0.22083	0.02	9.70	36.99	46.71	62.79	-16.08	QP
5	0.44400	0.01	9.80	32.30	42.11	46.99	-4.88	Average
6	0.44400	0.01	9.80	40.50	50.31	56.99	-6.68	QP
7	0.92330	0.02	9.80	22.16	31.98	46.00	-14.02	Average
8	0.92330	0.02	9.80	27.62	37.44	56.00	-18.56	QP
9	1.898	0.02	9.80	27.51	37.33	56.00	-18.67	QP
10	1.898	0.02	9.80	20.09	29.91	46.00	-16.09	Average
11	7.646	0.01	10.00	22.68	32.69	50.00	-17.31	Average
12	7.646	0.01	10.00	28.58	38.59	60.00	-21.41	QP

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Live Line:



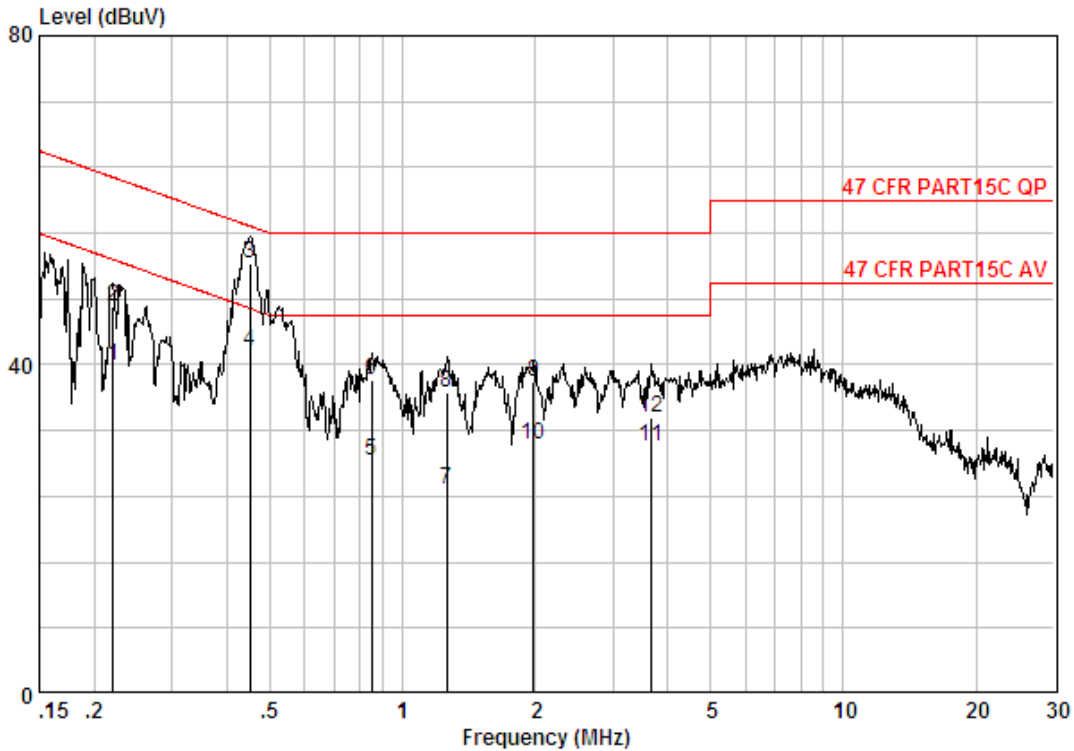
Site : Shielding Room
Condition : 47 CFR PART15C QP CE LINE
Job.No : 5892CR
Mode : 2462TX
 : S24B12-120A200-Y4

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.22201	0.02	9.70	36.67	46.39	62.74	-16.35	QP
2	0.22201	0.02	9.70	30.69	40.40	52.74	-12.34	Average
3 @	0.44900	0.01	9.80	42.30	52.11	56.89	-4.78	QP
4 @	0.44900	0.01	9.80	32.30	42.11	46.89	-4.78	Average
5	0.88031	0.02	9.80	26.35	36.17	56.00	-19.83	QP
6	0.88031	0.02	9.80	18.00	27.82	46.00	-18.18	Average
7	1.839	0.02	9.80	15.70	25.52	46.00	-20.48	Average
8	1.839	0.02	9.80	24.71	34.53	56.00	-21.47	QP
9	4.092	0.01	9.88	16.80	26.69	46.00	-19.31	Average
10	4.092	0.01	9.88	23.57	33.47	56.00	-22.53	QP
11	5.594	0.01	9.90	24.67	34.58	60.00	-25.42	QP
12	5.594	0.01	9.90	16.18	26.09	50.00	-23.91	Average

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Neutral Line:



Site : Shielding Room
Condition : 47 CFR PART15C QP CE NEUTRAL
Job.No : 5892CR
Mode : 2462TX
 : S24B12-120A200-Y4

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.22083	0.02	9.70	30.18	39.90	52.79	-12.89 Average
2	0.22083	0.02	9.70	37.33	47.05	62.79	-15.74 QP
3 @	0.45100	0.01	9.80	42.60	52.41	56.86	-4.45 QP
4 @	0.45100	0.01	9.80	31.80	41.61	46.86	-5.25 Average
5	0.85276	0.02	9.80	18.62	28.44	46.00	-17.56 Average
6	0.85276	0.02	9.80	28.30	38.12	56.00	-17.88 QP
7	1.262	0.02	9.80	15.12	24.94	46.00	-21.06 Average
8	1.262	0.02	9.80	26.81	36.63	56.00	-19.37 QP
9	1.980	0.02	9.80	28.20	38.02	56.00	-17.98 QP
10	1.980	0.02	9.80	20.44	30.26	46.00	-15.74 Average
11	3.681	0.02	9.87	20.13	30.01	46.00	-15.99 Average
12	3.681	0.02	9.87	23.71	33.59	56.00	-22.41 QP

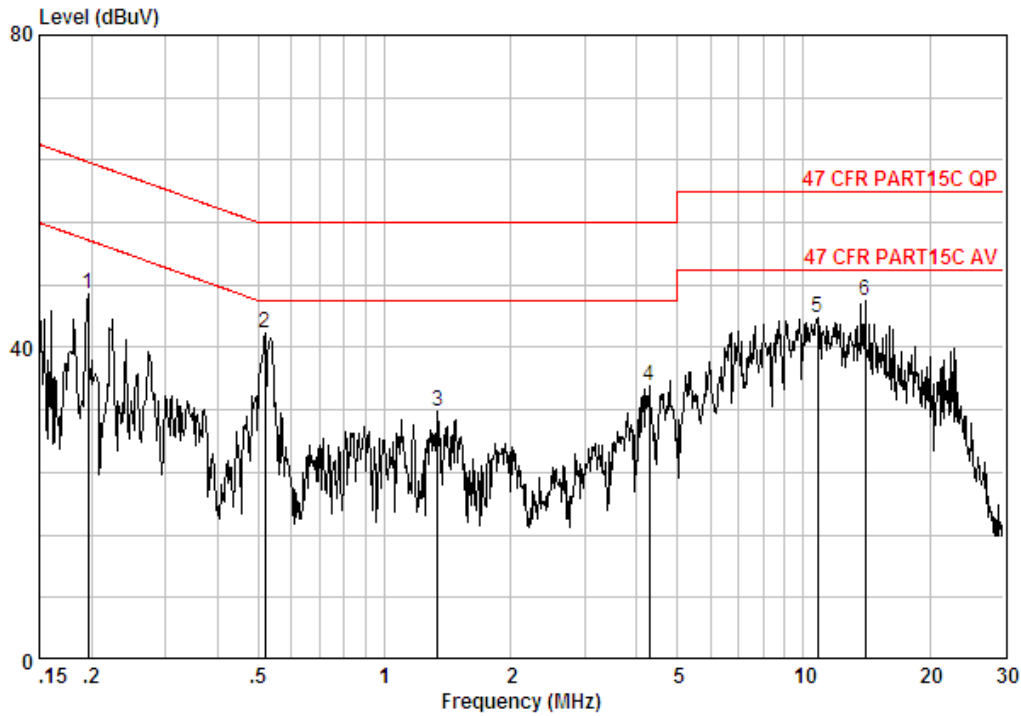


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WHF-1200300T3:

Live Line:



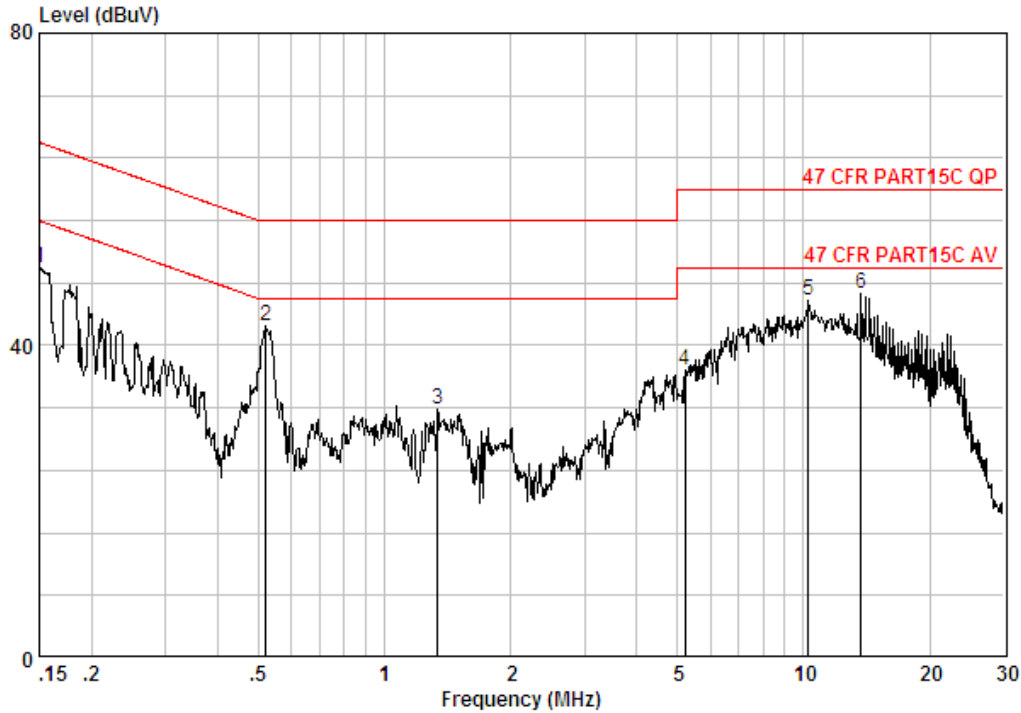
Site : Shielding Room
Condition : 47 CFR PART15C AV CE LINE
Job.No : 5892CR
Mode : 2412TX
: WHF-1200300T3

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.19654	0.02	9.70	37.20	46.92	53.76	-6.84	Peak
2 @	0.51824	0.01	9.80	32.08	41.89	46.00	-4.11	Peak
3	1.338	0.02	9.80	21.97	31.79	46.00	-14.21	Peak
4	4.292	0.01	9.88	25.22	35.12	46.00	-10.88	Peak
5	10.790	0.01	10.00	33.71	43.72	50.00	-6.28	Peak
6 @	14.063	0.01	10.00	36.06	46.08	50.00	-3.92	Peak

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Neutral Line:



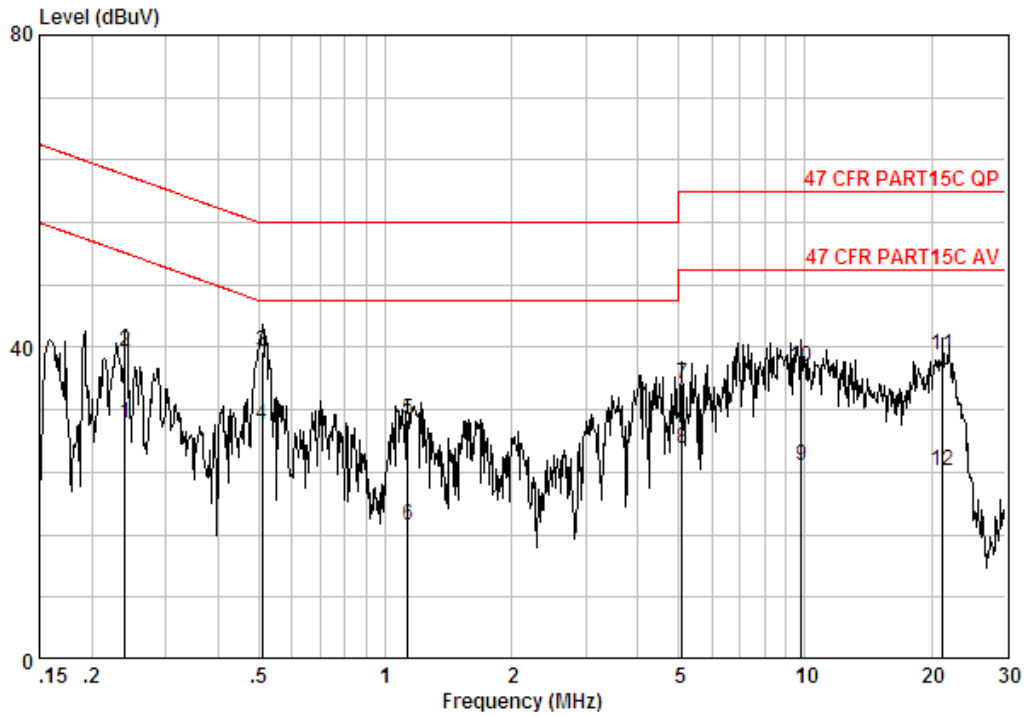
Site : Shielding Room
 Condition : 47 CFR PART15C AV CE NEUTRAL
 Job.No : 5892CR
 Mode : 2412TX
 : WHF-1200300T3

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15000	0.02	9.70	40.21	49.93	56.00	-6.07 Peak
2 @	0.52099	0.01	9.80	32.74	42.56	46.00	-3.44 Peak
3	1.338	0.02	9.80	21.97	31.79	46.00	-14.21 Peak
4	5.221	0.01	9.91	26.96	36.88	50.00	-13.12 Peak
5 @	10.288	0.01	10.00	35.76	45.77	50.00	-4.23 Peak
6 @	13.695	0.01	10.00	36.73	46.75	50.00	-3.25 Peak

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Live Line:



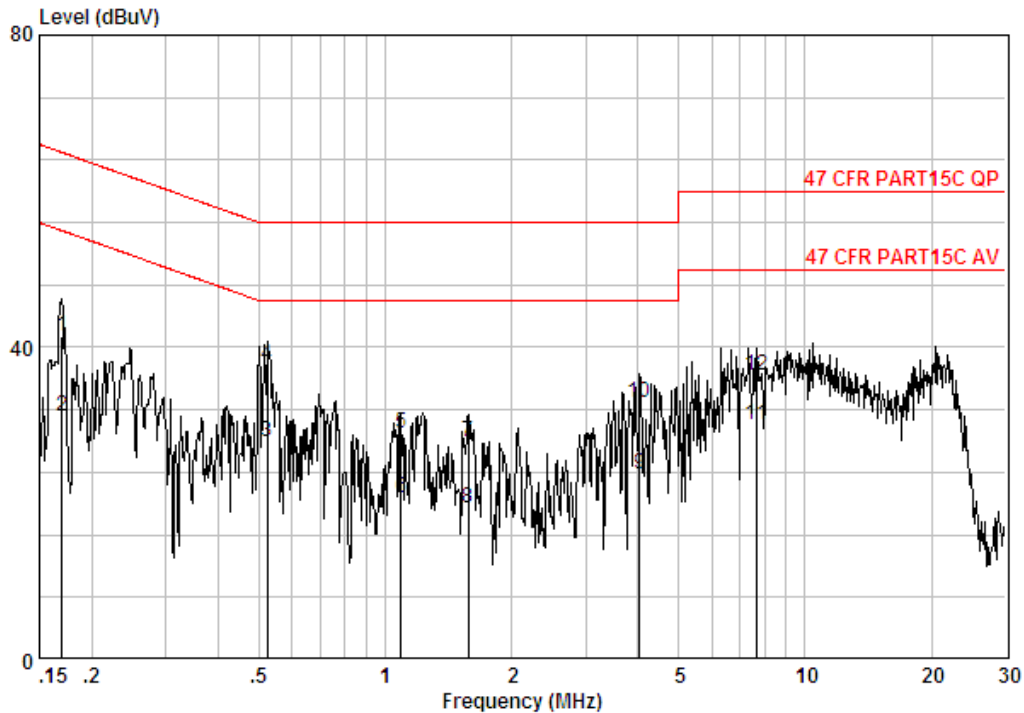
Site : Shielding Room
Condition : 47 CFR PART15C QP CE LINE
Job.No : 5892CR
Mode : 2437 TX mode
Adapter : WHF-1200300T3

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.24037	0.02	9.70	20.62	30.33	52.08	-21.75	Average
2	0.24037	0.02	9.70	29.79	39.51	62.08	-22.58	QP
3	0.51007	0.01	9.80	29.61	39.42	56.00	-16.58	QP
4 @	0.51007	0.01	9.80	20.23	30.05	46.00	-15.95	Average
5	1.129	0.02	9.80	20.82	30.64	56.00	-25.36	QP
6	1.129	0.02	9.80	7.35	17.17	46.00	-28.83	Average
7	5.085	0.01	9.90	25.41	35.32	60.00	-24.68	QP
8	5.085	0.01	9.90	17.13	27.04	50.00	-22.96	Average
9	9.809	0.01	9.90	14.99	24.90	50.00	-25.10	Average
10	9.809	0.01	9.90	27.64	37.55	60.00	-22.45	QP
11	21.260	0.02	10.10	28.85	38.97	60.00	-21.03	QP
12	21.260	0.02	10.10	14.02	24.14	50.00	-25.86	Average

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Neutral Line:



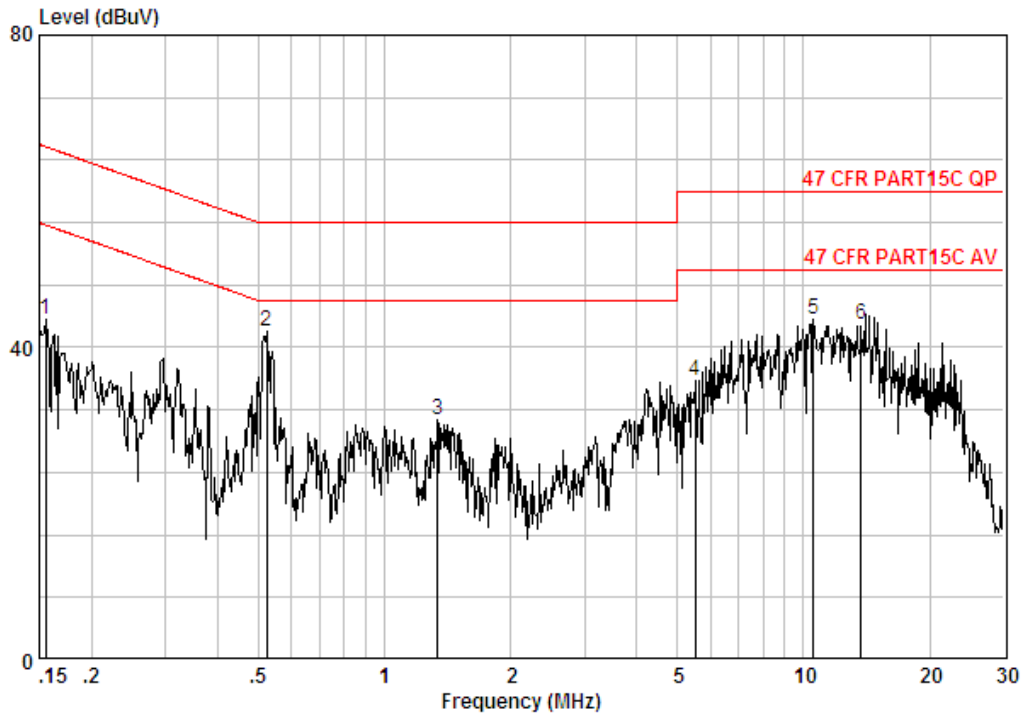
Site : Shielding Room
 Condition : 47 CFR PART15C QP CE NEUTRAL
 Job.No : 5892CR
 Mode : 2437 TX mode
 Adapter : WHF-1200300T3

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.16944	0.02	9.70	31.66	41.38	64.99	-23.61 QP
2	0.16944	0.02	9.70	21.50	31.22	54.99	-23.77 Average
3	0.52376	0.01	9.80	18.06	27.87	46.00	-18.13 Average
4	0.52376	0.01	9.80	27.92	37.73	56.00	-18.27 QP
5	1.088	0.02	9.80	19.26	29.08	56.00	-26.92 QP
6	1.088	0.02	9.80	10.80	20.62	46.00	-25.38 Average
7	1.577	0.02	9.80	18.17	27.99	56.00	-28.01 QP
8	1.577	0.02	9.80	9.55	19.37	46.00	-26.63 Average
9	4.027	0.01	9.88	13.83	23.72	46.00	-22.28 Average
10	4.027	0.01	9.88	23.03	32.92	56.00	-23.08 QP
11	7.687	0.01	10.00	19.98	29.99	50.00	-20.01 Average
12	7.687	0.01	10.00	26.48	36.49	60.00	-23.51 QP

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Live Line:



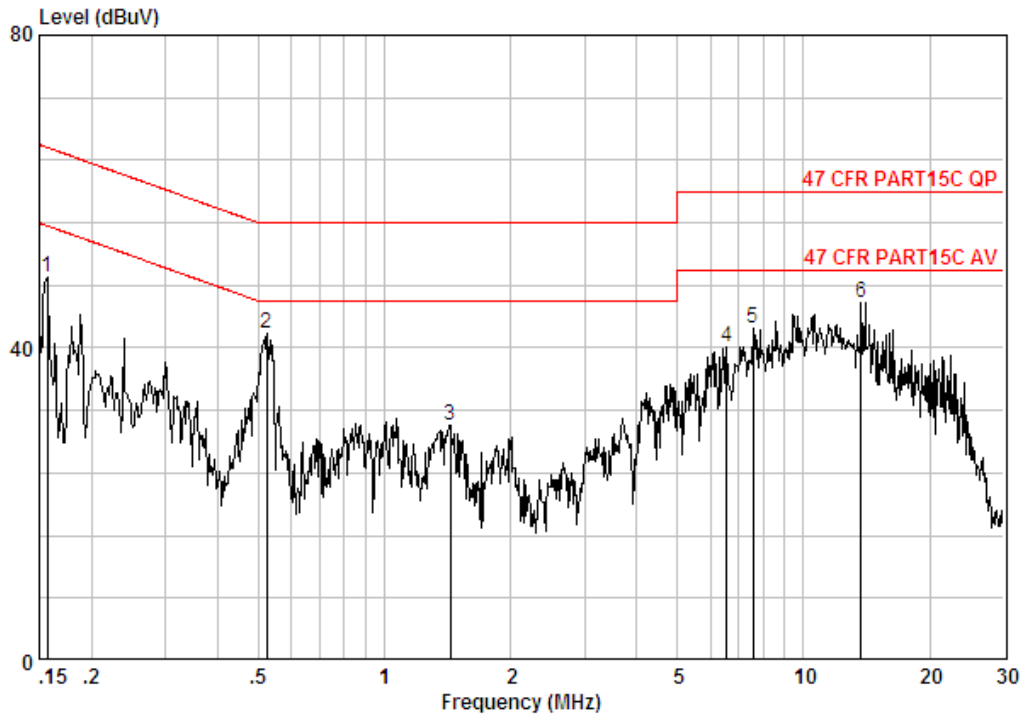
Site : Shielding Room
Condition : 47 CFR PART15C AV CE LINE
Job.No : 5892CR
Mode : 2462TX
 : WHF-1200300T3

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15567	0.02	9.70	33.89	43.61	55.69	-12.08	Peak
2 @	0.52376	0.01	9.80	32.33	42.14	46.00	-3.86	Peak
3	1.338	0.02	9.80	20.86	30.68	46.00	-15.32	Peak
4	5.505	0.01	9.93	25.82	35.76	50.00	-14.24	Peak
5	10.564	0.01	10.00	33.58	43.59	50.00	-6.41	Peak
6	13.695	0.01	10.00	32.93	42.95	50.00	-7.05	Peak

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Neutral Line:



Site : Shielding Room
 Condition : 47 CFR PART15C AV CE NEUTRAL
 Job.No : 5892CR
 Mode : 2462TX
 : WHF-1200300T3

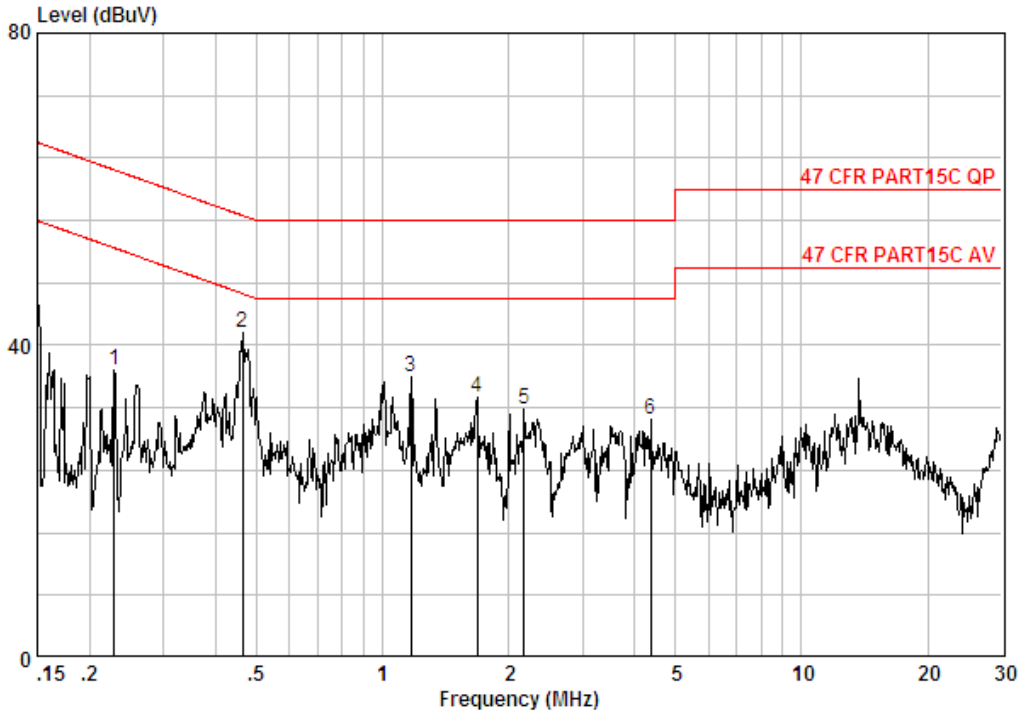
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.15649	0.02	9.70	39.37	49.09	55.65	-6.56	Peak
2 @	0.52376	0.01	9.80	32.13	41.95	46.00	-4.05	Peak
3	1.433	0.02	9.80	20.29	30.11	46.00	-15.89	Peak
4	6.557	0.01	9.98	30.07	40.06	50.00	-9.94	Peak
5	7.566	0.01	10.00	32.60	42.61	50.00	-7.39	Peak
6 @	13.695	0.01	10.00	35.87	45.88	50.00	-4.12	Peak

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SW36-12003000-W

Live Line:



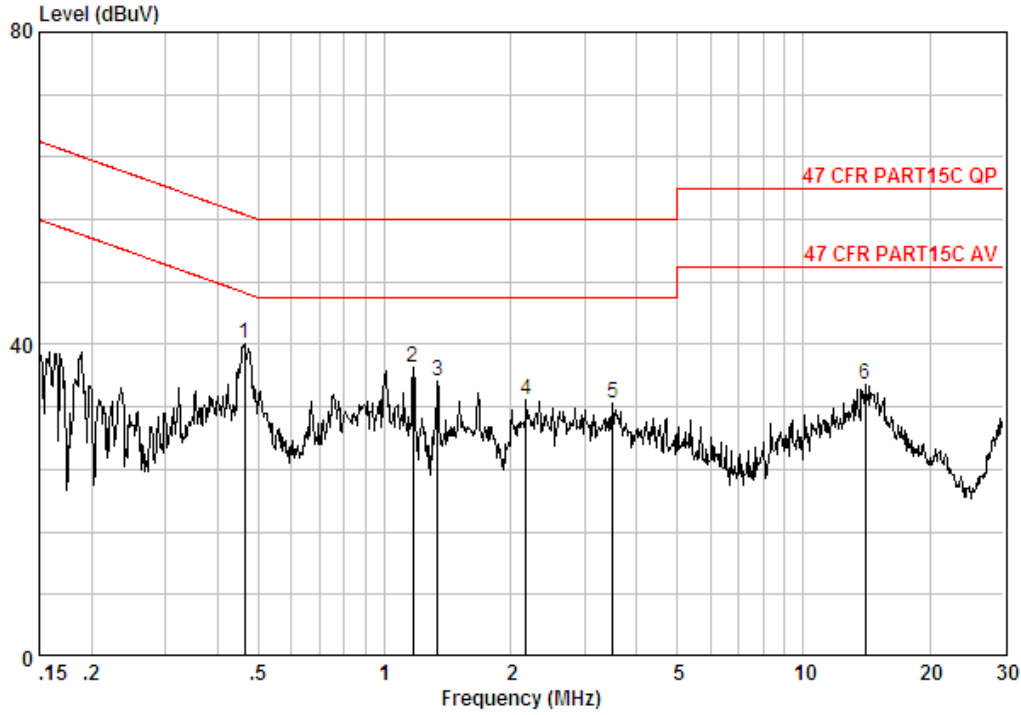
Site : Shielding Room
Condition : 47 CFR PART15C AV CE LINE
Job.No : 5892CR
Mode : 2412TX
: SW36-12003000-W

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.22918	0.02	9.70	27.13	36.85	52.48	-15.63	Peak
2 @	0.46367	0.01	9.80	31.73	41.54	46.63	-5.08	Peak
3	1.172	0.02	9.80	26.09	35.91	46.00	-10.09	Peak
4	1.680	0.02	9.80	23.44	33.26	46.00	-12.74	Peak
5	2.178	0.02	9.81	21.89	31.72	46.00	-14.28	Peak
6	4.361	0.01	9.88	20.65	30.55	46.00	-15.45	Peak

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Neutral Line:



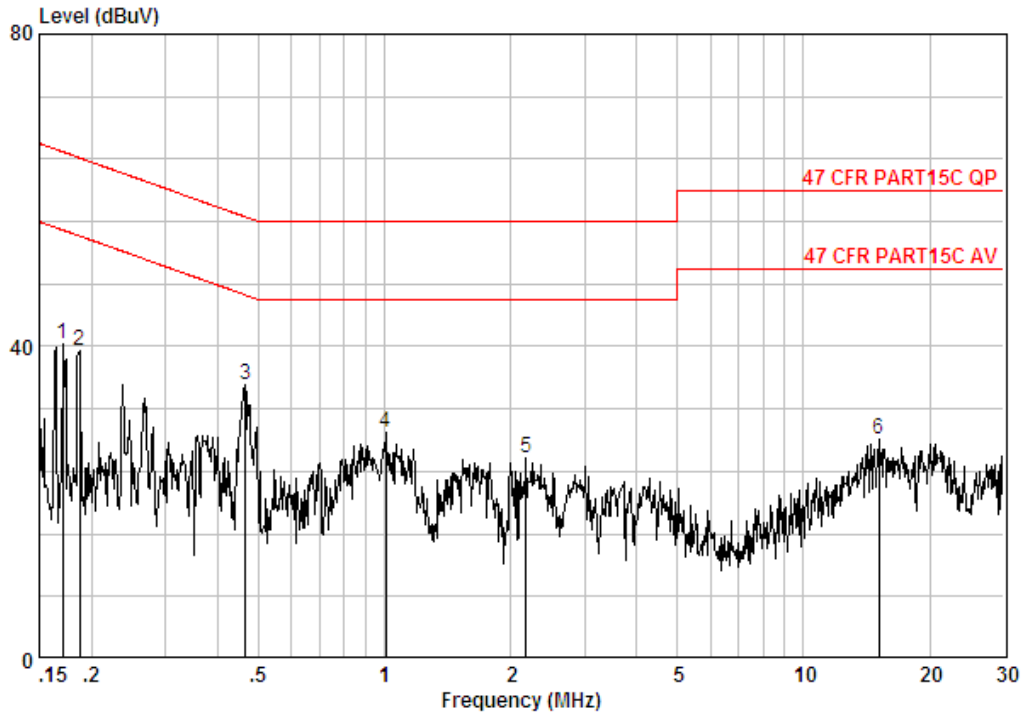
Site : Shielding Room
Condition : 47 CFR PART15C AV CE NEUTRAL
Job.No : 5892CR
Mode : 2412TX
: SW36-12003000-W

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.46367	0.01	9.80	30.23	40.04	46.63	-6.58 Peak
2	1.172	0.02	9.80	27.13	36.95	46.00	-9.05 Peak
3	1.338	0.02	9.80	25.46	35.28	46.00	-10.72 Peak
4	2.178	0.02	9.81	23.13	32.96	46.00	-13.04 Peak
5	3.509	0.02	9.86	22.62	32.49	46.00	-13.51 Peak
6	14.063	0.01	10.07	24.87	34.95	50.00	-15.05 Peak

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Live Line:

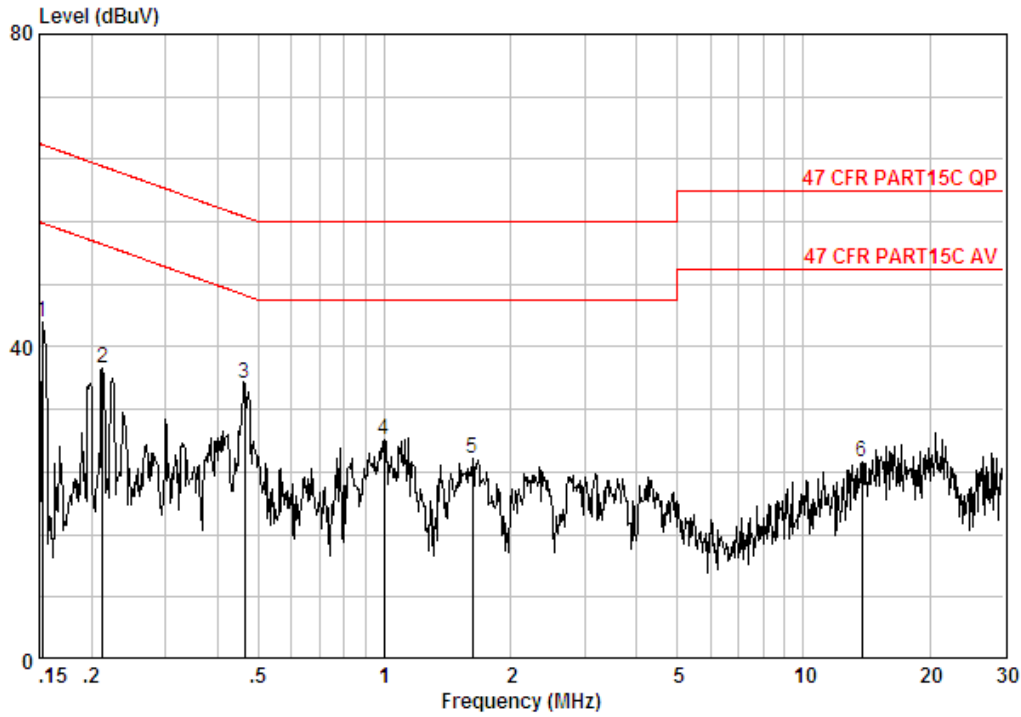


Site : Shielding Room
 Condition : 47 CFR PART15C AV CE LINE
 Job.No : 5892CR
 Mode : 2437TX
 Adapter : SW36-12003000-W

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.17034	0.02	9.70	30.57	40.29	54.94	-14.65	Peak
2	0.18738	0.02	9.70	29.71	39.43	54.15	-14.72	Peak
3	0.46614	0.01	9.80	25.27	35.08	46.58	-11.50	Peak
4	1.005	0.02	9.80	19.18	29.00	46.00	-17.00	Peak
5	2.178	0.02	9.81	15.83	25.66	46.00	-20.34	Peak
6	15.146	0.02	10.10	17.95	28.06	50.00	-21.94	Peak

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Neutral Line:



Site : Shielding Room
 Condition : 47 CFR PART15C AV CE NEUTRAL
 Job.No : 5892CR
 Mode : 2437TX
 Adapter : SW36-12003000-W

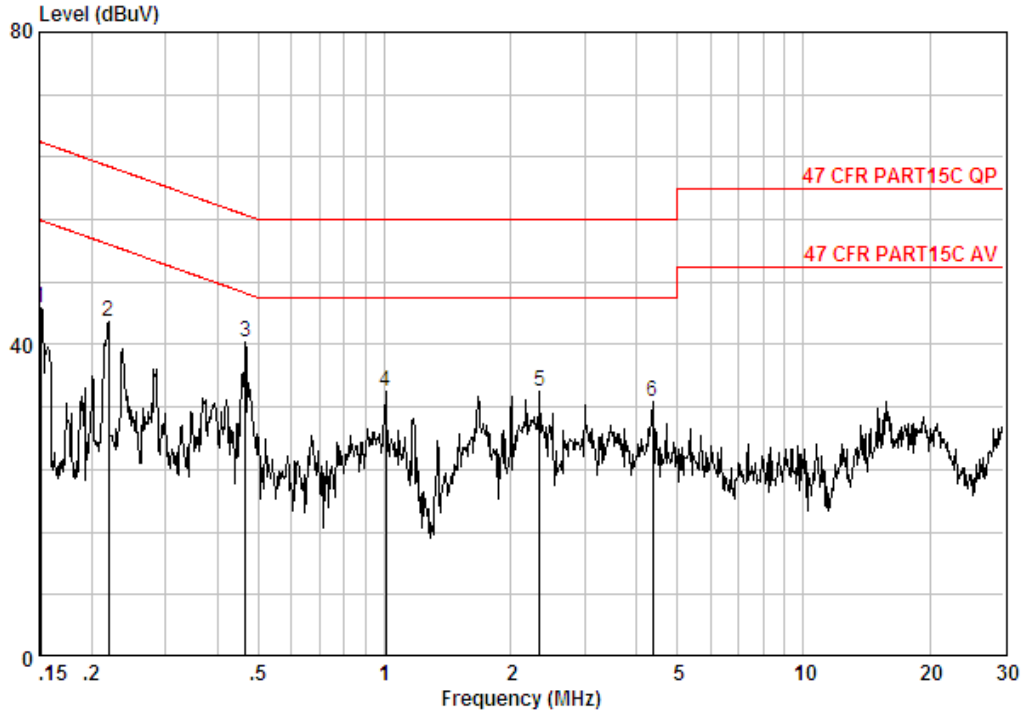
	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.15240	0.02	9.70	33.39	43.11	55.87	-12.76 Peak
2	0.21279	0.02	9.70	27.49	37.21	53.10	-15.89 Peak
3	0.46367	0.01	9.80	25.40	35.21	46.63	-11.42 Peak
4	0.99968	0.02	9.80	18.31	28.13	46.00	-17.87 Peak
5	1.619	0.02	9.80	15.82	25.64	46.00	-20.36 Peak
6	13.768	0.01	10.00	15.20	25.22	50.00	-24.78 Peak



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Live Line:



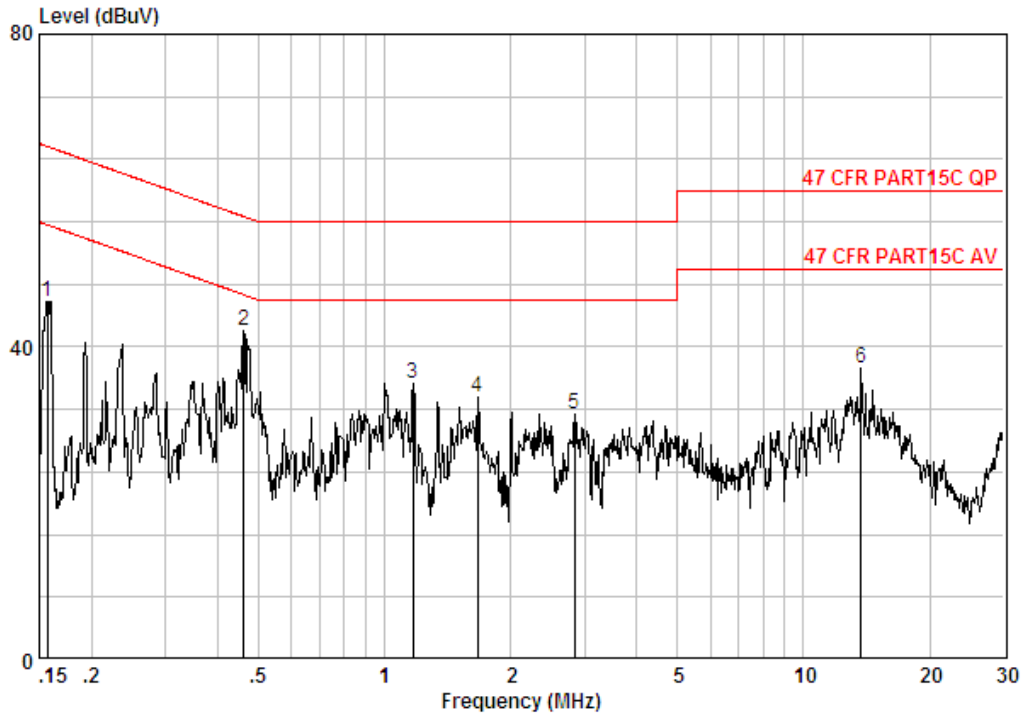
Site : Shielding Room
Condition : 47 CFR PART15C AV CE LINE
Job.No : 5892CR
Mode : 2462TX
: SW36-12003000-W

	Freq	Cable Loss	LISN Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15080	0.02	9.70	35.00	44.72	55.96	-11.23 Peak
2	0.21967	0.02	9.70	33.18	42.90	52.83	-9.93 Peak
3	0.46614	0.01	9.80	30.43	40.24	46.58	-6.34 Peak
4	1.005	0.02	9.80	24.25	34.07	46.00	-11.93 Peak
5	2.346	0.02	9.82	24.07	33.90	46.00	-12.10 Peak
6	4.361	0.01	9.88	22.90	32.80	46.00	-13.20 Peak

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Neutral Line:



Site : Shielding Room
 Condition : 47 CFR PART15C AV CE NEUTRAL
 Job.No : 5892CR
 Mode : 2462TX
 : SW36-12003000-W

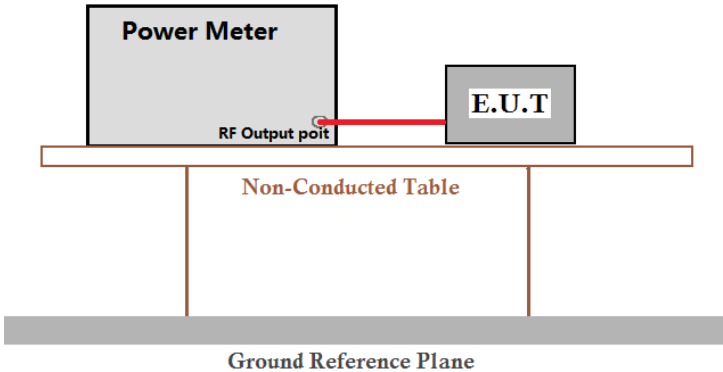
	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.15649	0.02	9.70	36.05	45.77	55.65	-9.88 Peak
2 @	0.46122	0.01	9.80	32.36	42.17	46.67	-4.50 Peak
3	1.172	0.02	9.80	25.52	35.34	46.00	-10.66 Peak
4	1.671	0.02	9.80	23.65	33.47	46.00	-12.53 Peak
5	2.839	0.02	9.84	21.51	31.37	46.00	-14.63 Peak
6	13.695	0.01	10.05	27.31	37.37	50.00	-12.63 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:	KDB558074 D01 v03r02 KDB662911 D01 Multiple Transmitter Output v02r01
Test Setup:	 <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
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



Mode	802.11b for Antenna 1				
Data Rate	Test Channel	1Mbps	2Mbps	5.5Mbps	11Mbps
Test results (dBm)	1	19.14	19.02	18.95	18.78
	6	19.10	18.99	18.84	18.79
	11	18.85	18.78	18.72	18.65

Mode	802.11g for Antenna 1								
Data Rate	Test Channel	6Mbps	9Mbps	12Mbps	18Mbps	24Mbps	36Mbps	48Mbps	54Mbps
Test results (dBm)	1	19.20	19.14	19.08	19.03	18.89	18.82	18.71	18.62
	6	19.13	19.04	18.97	18.92	18.81	18.73	18.65	18.56
	11	18.69	18.63	18.57	18.53	18.47	18.42	18.37	18.24

Mode	802.11n (HT20) for Antenna 1								
Data Rate	Test Channel	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Test results (dBm)	1	17.46	17.38	17.32	17.26	17.17	17.08	17.03	16.98
	6	17.27	17.21	17.14	17.08	17.02	16.96	16.92	16.83
	11	16.96	16.91	16.82	16.71	16.64	16.57	16.51	16.42

Mode	802.11n (HT20) for Antenna 2								
Data Rate	Test Channel	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Test results (dBm)	1	16.81	16.73	16.62	16.54	16.48	16.42	16.31	16.24
	6	16.38	16.34	16.28	16.24	16.17	16.14	16.08	16.02
	11	16.22	16.17	16.11	16.04	16.01	15.89	15.82	15.73

Mode	802.11n (HT20) for Antenna1+ Antenna2								
Data Rate	Test Channel	6.5Mbps	13Mbps	19.5Mbps	26Mbps	39Mbps	52Mbps	58.5Mbps	65Mbps
Test results (dBm)	1	20.16	20.17	19.99	19.93	19.85	19.77	19.70	19.64
	6	19.86	19.81	19.74	19.69	19.63	19.58	19.53	19.45
	11	19.62	19.57	19.49	19.40	19.35	19.26	19.19	19.10

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Mode	802.11n (HT40) Antenna 1								
Data Rate	Test Channel	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Test results (dBm)	3	17.28	17.24	17.18	17.13	17.09	17.06	17.02	16.96
	6	17.18	17.14	17.08	17.02	16.94	16.91	16.84	16.77
	9	16.99	16.93	16.87	16.82	16.78	16.72	16.68	16.61

Mode	802.11n (HT40) Antenna 2								
Data Rate	Test Channel	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Test results (dBm)	3	16.48	16.43	16.37	16.32	16.25	16.18	16.11	16.04
	6	16.29	16.24	16.18	16.09	16.03	15.97	15.92	15.81
	9	16.16	16.13	16.09	16.01	15.95	15.86	15.78	15.71

Mode	802.11n (HT40) Antenna1+ Antenna 2								
Data Rate	Test Channel	13.5Mbps	27Mbps	40.5Mbps	54Mbps	81Mbps	108Mbps	121.5Mbps	135Mbps
Test results (dBm)	3	19.91	19.86	19.80	19.75	19.70	19.65	19.60	19.53
	6	19.77	19.86	19.80	19.75	19.70	19.65	19.60	19.53
	9	19.61	19.56	19.51	19.44	19.40	19.32	19.26	19.19

Note:

- 1) 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).
- 2) Through Pre-scan 11B and 11G, found the power of Antenna1 is larger than Antenna 2 so only the Antenna1 test data is show in this report.

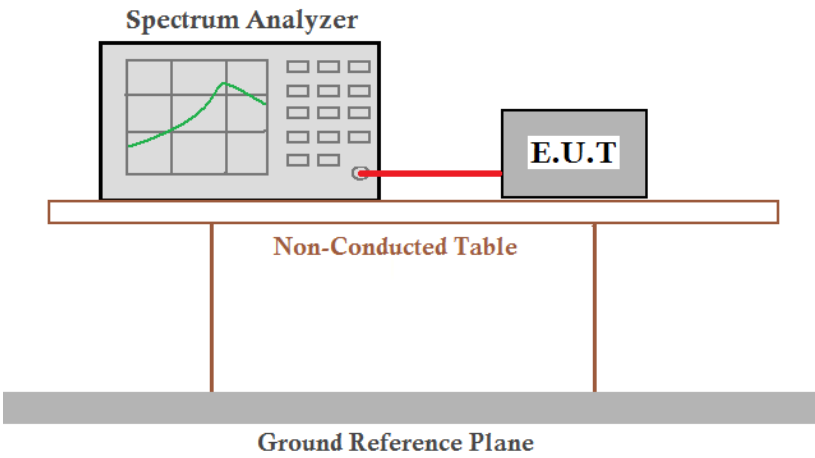


Measurement Data

802.11b mode					
Test channel	Peak Output Power (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2			
Lowest	19.14	17.26		30.00	Pass
Middle	19.10	16.87		30.00	Pass
Highest	18.85	16.73		30.00	Pass
802.11g mode					
Test channel	Peak Output Power (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2			
Lowest	19.20	18.52		30.00	Pass
Middle	19.13	18.05		30.00	Pass
Highest	18.69	17.85		30.00	Pass
802.11n(HT20)mode					
Test channel	Peak Output Power (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
Lowest	17.46	16.81	20.16	30.00	Pass
Middle	17.27	16.38	19.86	30.00	Pass
Highest	16.96	16.22	19.62	30.00	Pass
802.11n(HT40)mode					
Test channel	Peak Output Power (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
Lowest	17.28	16.48	19.91	30.00	Pass
Middle	17.18	16.29	19.77	30.00	Pass
Highest	16.99	16.16	19.61	30.00	Pass

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6.4 6dB Occupy Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	KDB558074 D01 v03r02
Test Setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which sits on a Ground Reference Plane.</p>
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



Measurement Data

802.11b mode				
Test channel	6dB Occupy Bandwidth (MHz)		Limit (kHz)	Result
	Antenna 1	Antenna 2		
Lowest	10.048	10.048	≥500	Pass
Middle	10.048	10.048	≥500	Pass
Highest	10.048	10.048	≥500	Pass
802.11g mode				
Test channel	6dB Occupy Bandwidth (MHz)		Limit (kHz)	Result
	Antenna 1	Antenna 2		
Lowest	16.538	16.538	≥500	Pass
Middle	16.538	16.587	≥500	Pass
Highest	16.538	16.538	≥500	Pass
802.11n(HT20) mode				
Test channel	6dB Occupy Bandwidth (MHz)		Limit (kHz)	Result
	Antenna 1	Antenna 2		
Lowest	17.692	17.692	≥500	Pass
Middle	17.692	17.692	≥500	Pass
Highest	17.692	17.692	≥500	Pass
802.11n(HT40)mode				
Test channel	6dB Occupy Bandwidth (MHz)		Limit (kHz)	Result
	Antenna 1	Antenna 2		
Lowest	36.538	36.619	≥500	Pass
Middle	36.603	36.603	≥500	Pass
Highest	36.587	36.667	≥500	Pass

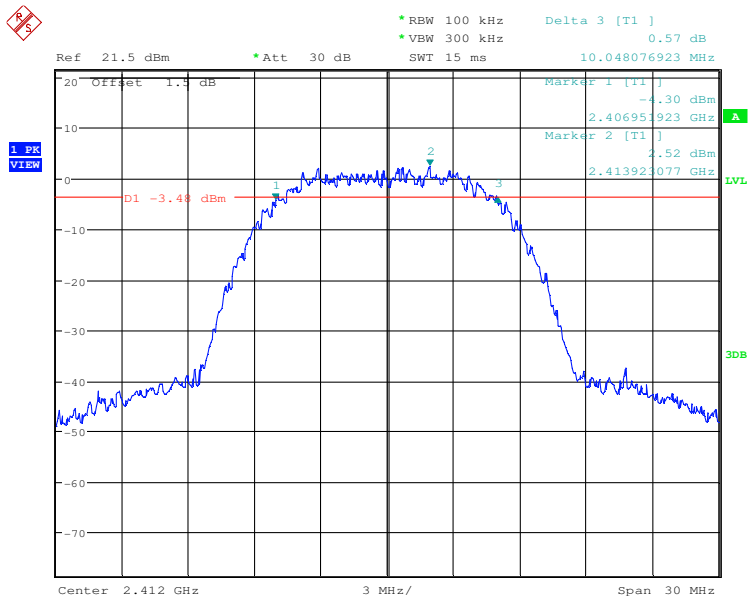
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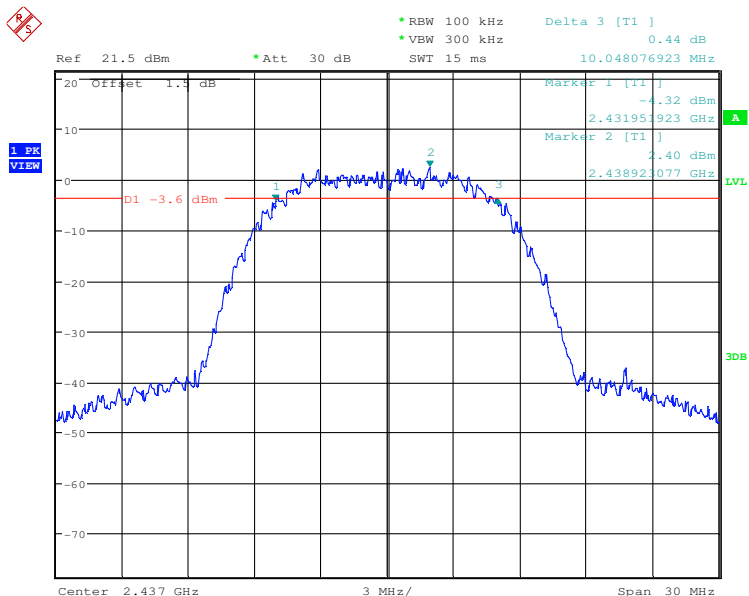
Test plot as follows:

Antenna 1:

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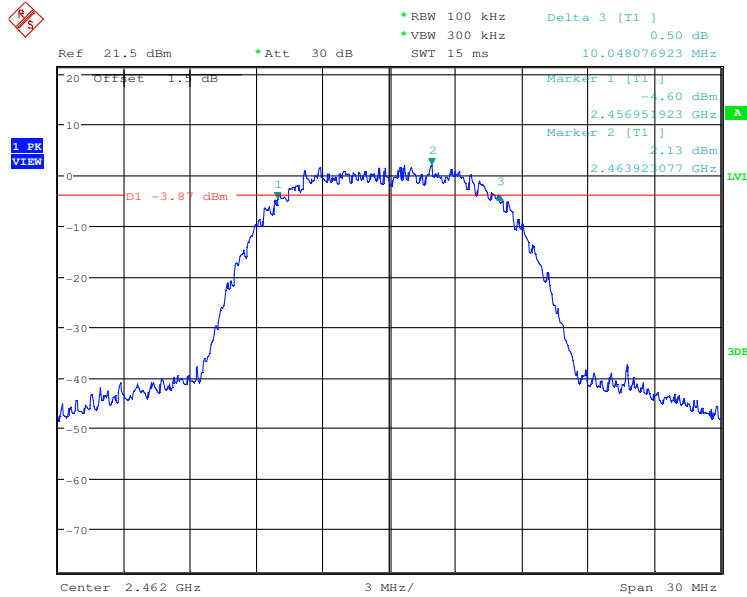


SGS-CSTC Standards Technical Services Ltd.

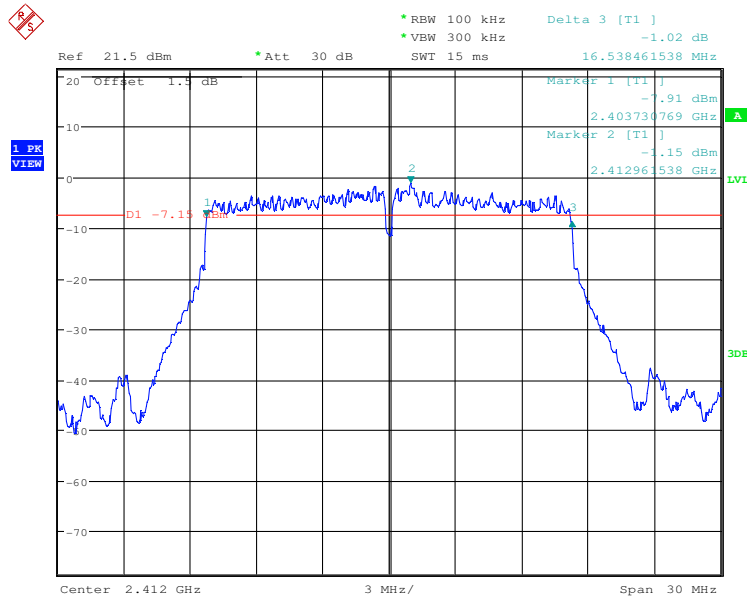
Report No.: SZEM141000589202

Page: 41 of 165

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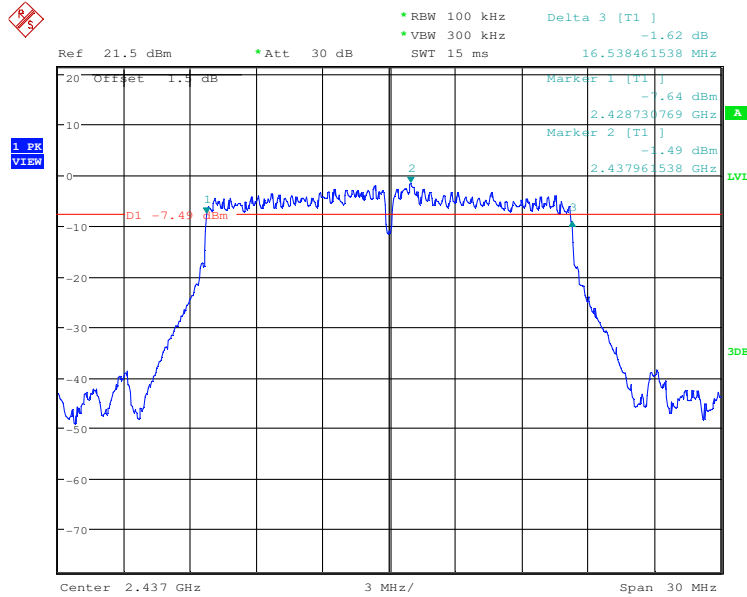
Test mode:	802.11g	Test channel:	Lowest
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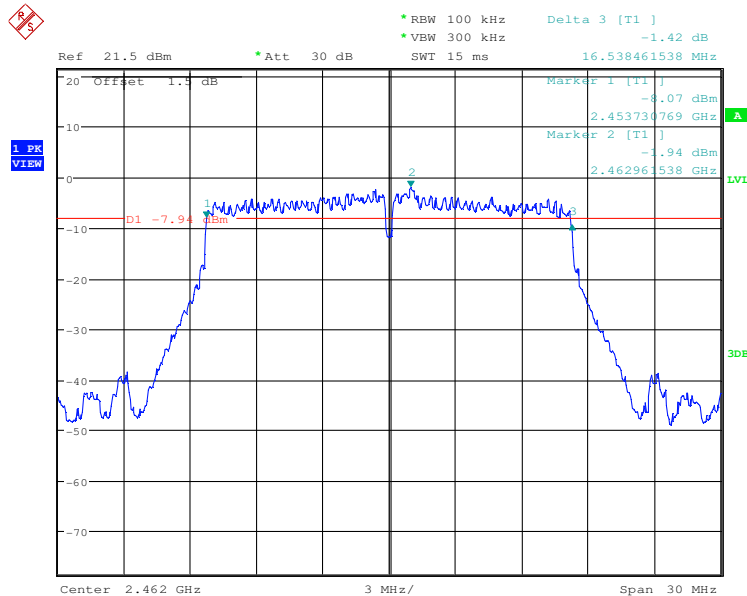
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Test mode:	802.11g	Test channel:	Middle
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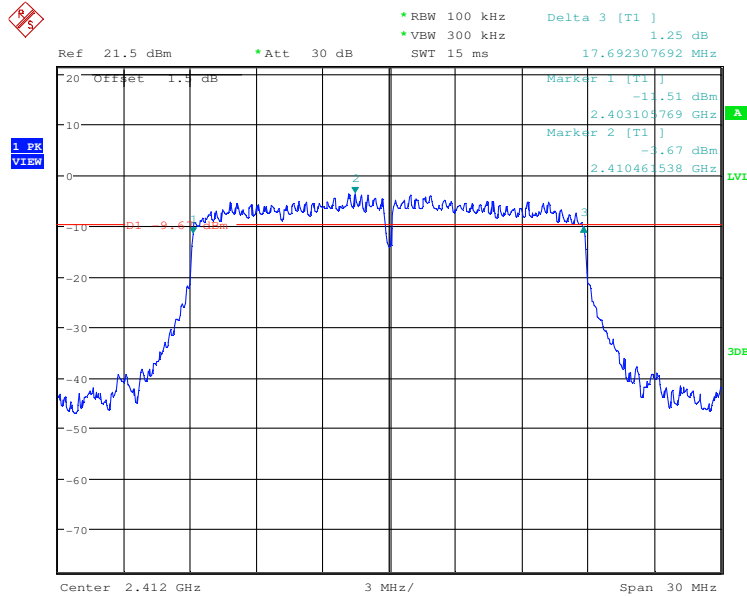
Test mode:	802.11g	Test channel:	Highest
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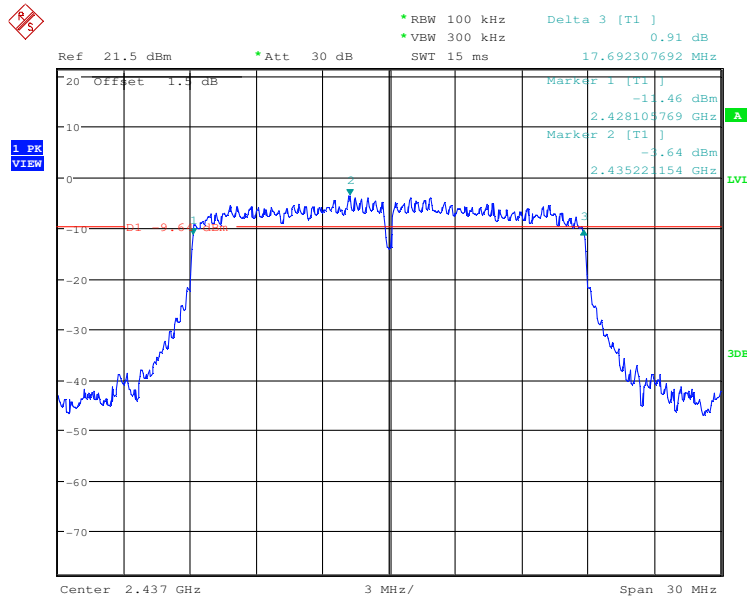
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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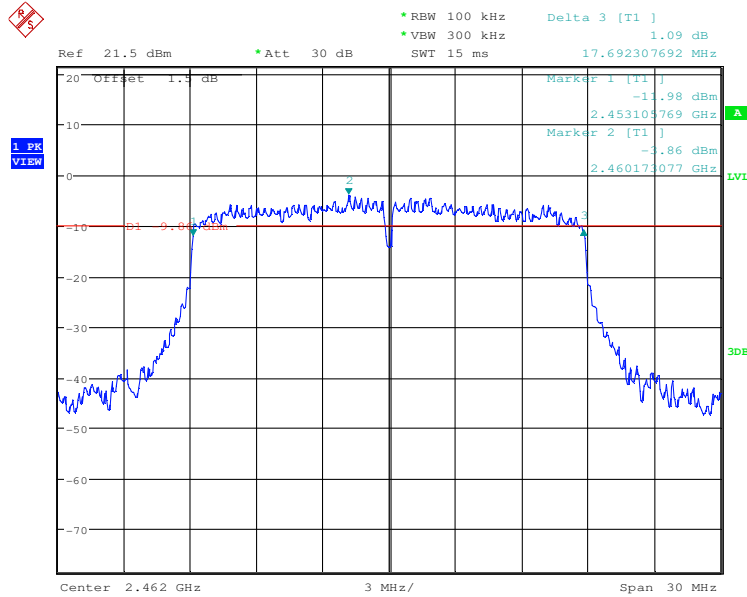
Test mode:	802.11n(HT20)	Test channel:	Middle
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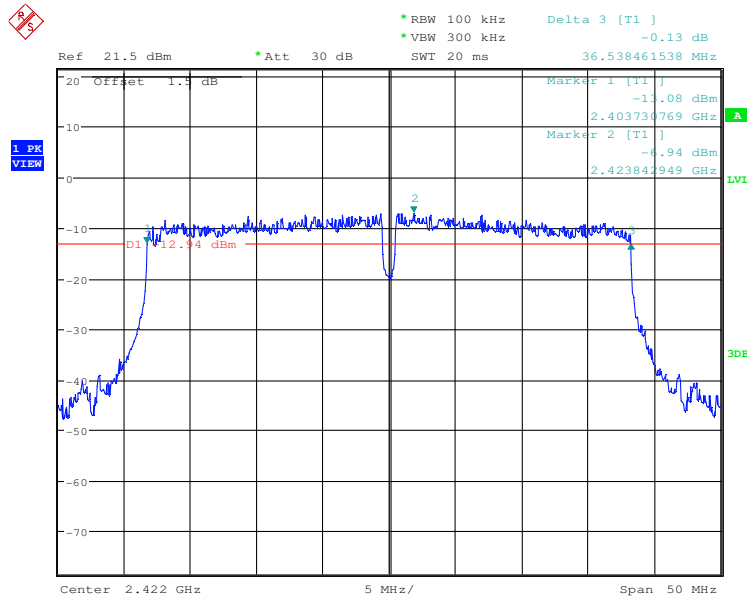
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Test mode:	802.11n(HT20)	Test channel:	Highest
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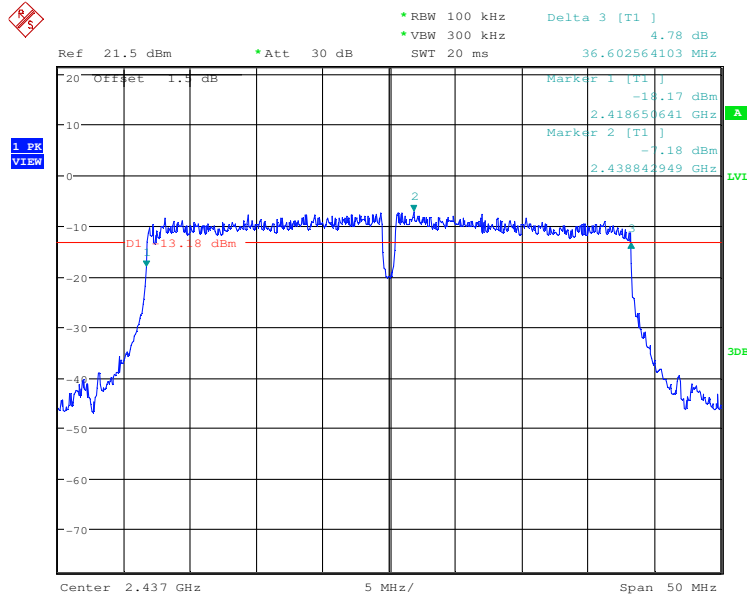
Test mode:	802.11n(HT40)	Test channel:	Lowest
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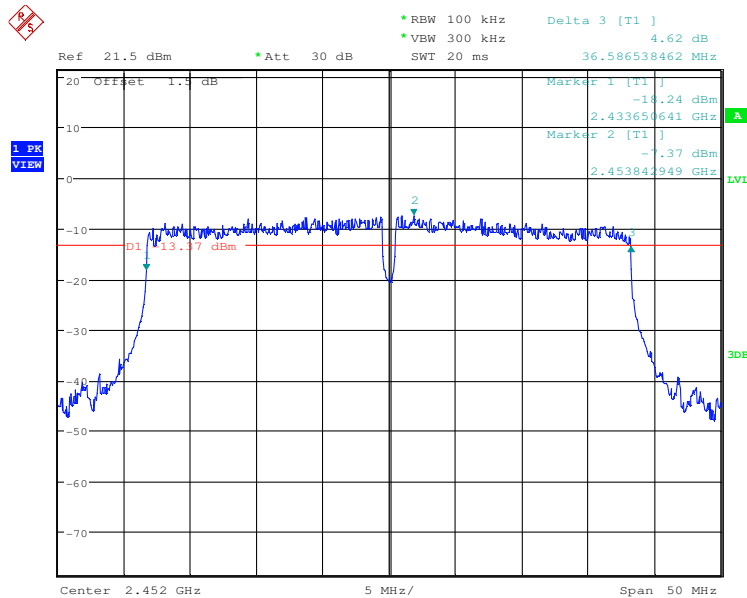
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Test mode:	802.11n(HT40)	Test channel:	Middle
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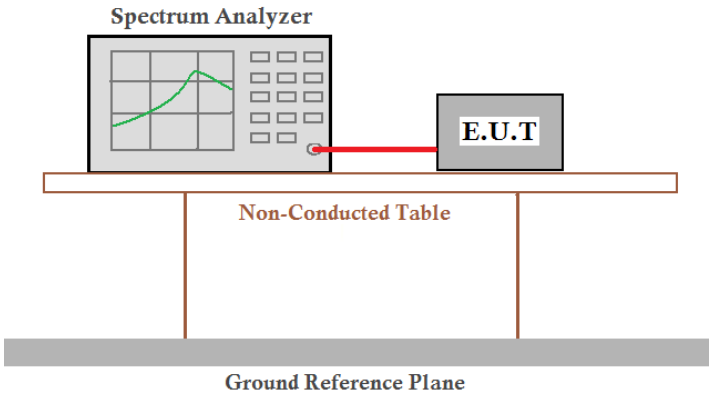


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.5 Power Spectral Density

Test Requirement:	47 CFR Part 15C Section 15.247 (e)
Test Method:	KDB558074 D01 v03r02 KDB662911 D01 Multiple Transmitter Output v02r01
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
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
Test Results:	Pass



Measurement Data

802.11b mode					
Test channel	Power Spectral Density (dBm)		Limit (dBm)	Result	
	Antenna 1	Antenna 2			
Lowest	-10.81	-12.68	≤8.00	Pass	
Middle	-10.86	-12.98	≤8.00	Pass	
Highest	-11.12	-13.17	≤8.00	Pass	
802.11g mode					
Test channel	Power Spectral Density (dBm)		Limit (dBm)	Result	
	Antenna 1	Antenna 2			
Lowest	-15.07	-15.91	≤8.00	Pass	
Middle	-15.36	-16.07	≤8.00	Pass	
Highest	-15.69	-16.44	≤8.00	Pass	
802.11n(HT20) mode					
Test channel	Power Spectral Density (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
Lowest	-17.79	-18.13	-14.95	≤8.00	Pass
Middle	-18.02	-18.73	-15.355	≤8.00	Pass
Highest	-18.20	-18.74	-15.455	≤8.00	Pass
802.11n(HT40) mode					
Test channel	Power Spectral Density (dBm)			Limit (dBm)	Result
	Antenna 1	Antenna 2	Total		
Lowest	-20.30	-19.87	-17.07	≤8.00	Pass
Middle	-19.47	-20.66	-17.01	≤8.00	Pass
Highest	-20.56	-20.05	-17.29	≤8.00	Pass

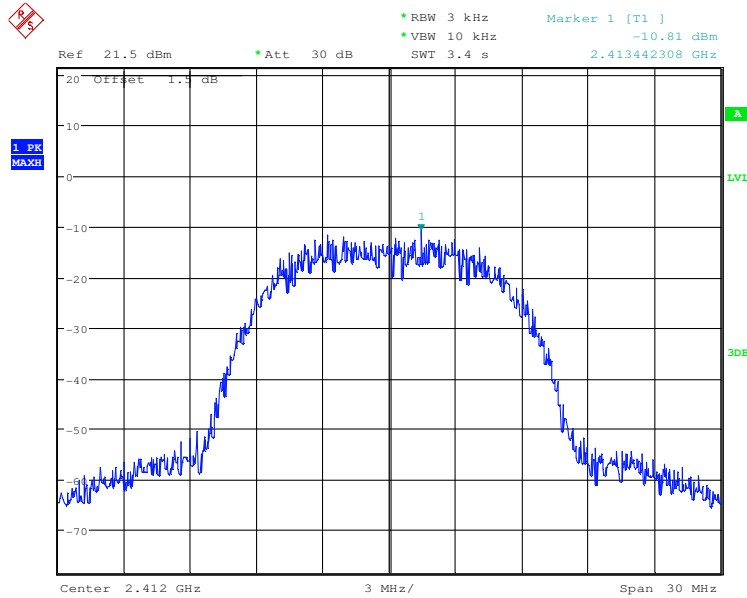
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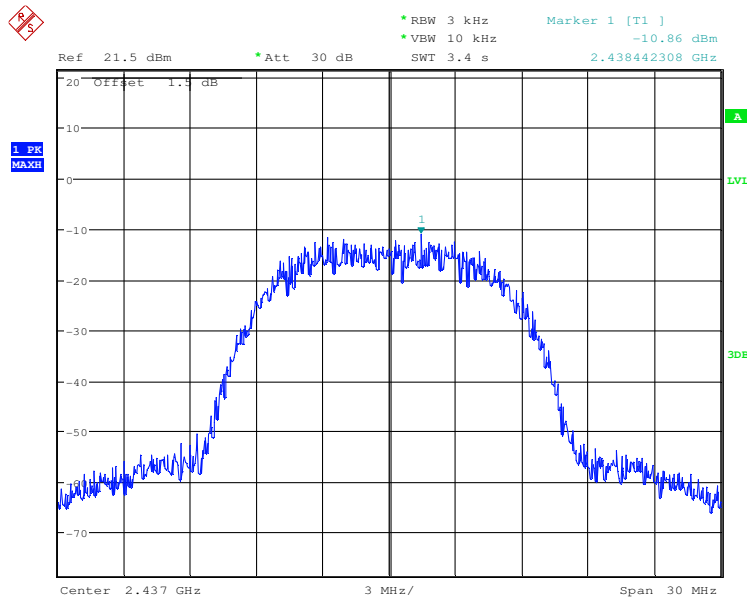
Test plot as follows:

Antenna 1:

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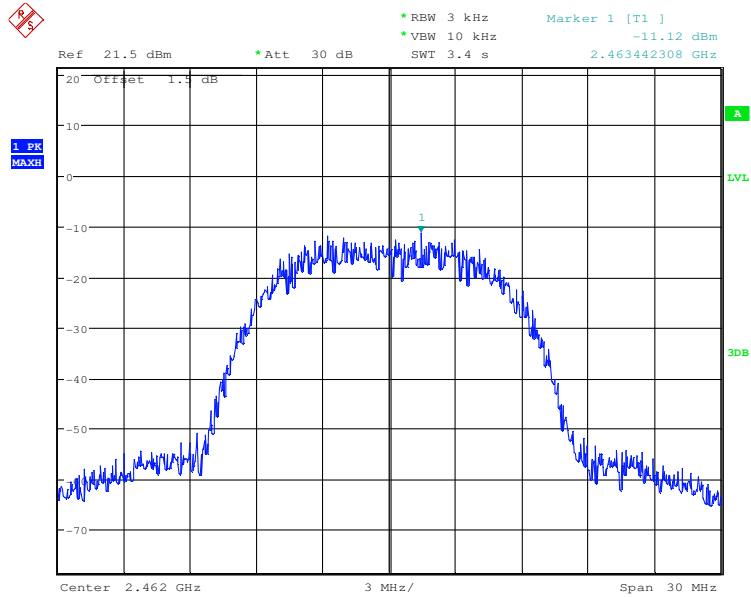
Test mode:	802.11b	Test channel:	Middle
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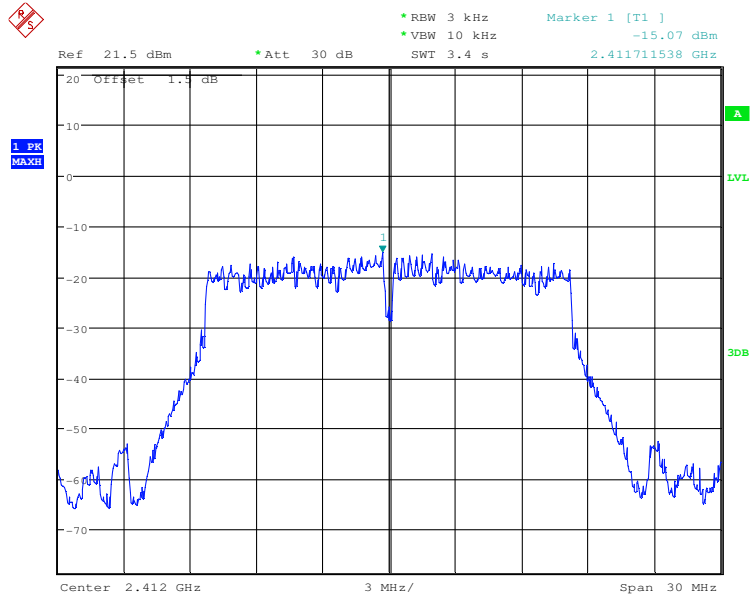
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Test mode:	802.11b	Test channel:	Highest
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Test mode:	802.11g	Test channel:	Lowest
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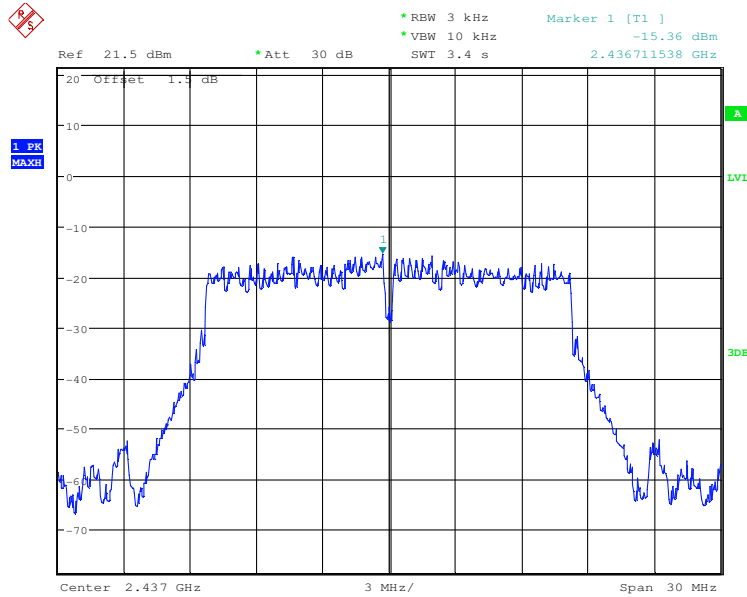


SGS-CSTC Standards Technical Services Ltd.

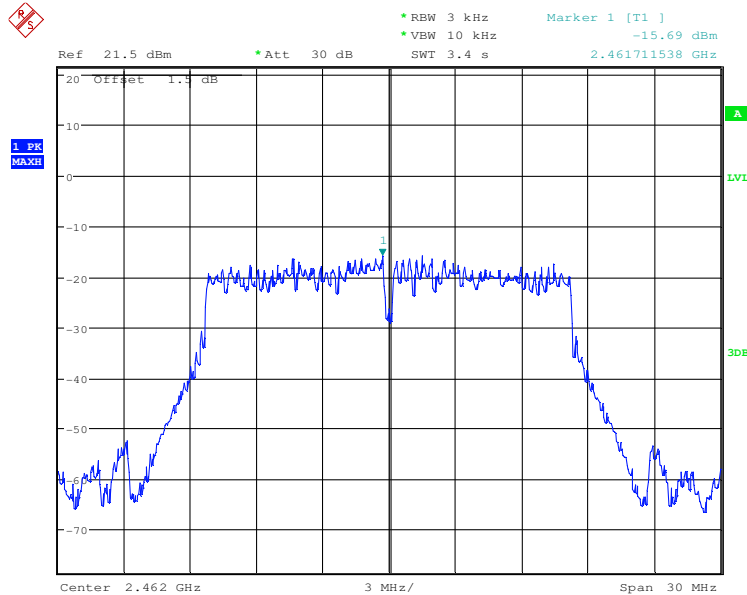
Report No.: SZEM141000589202

Page: 50 of 165

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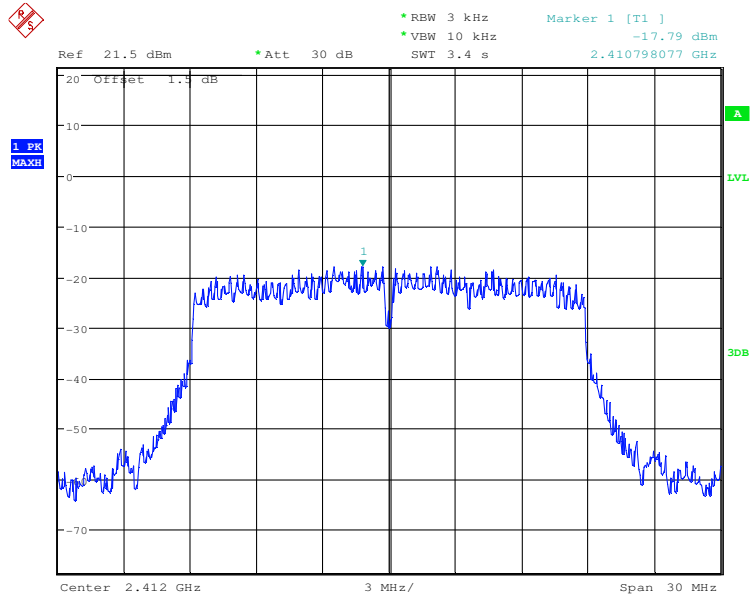
Test mode:	802.11g	Test channel:	Highest
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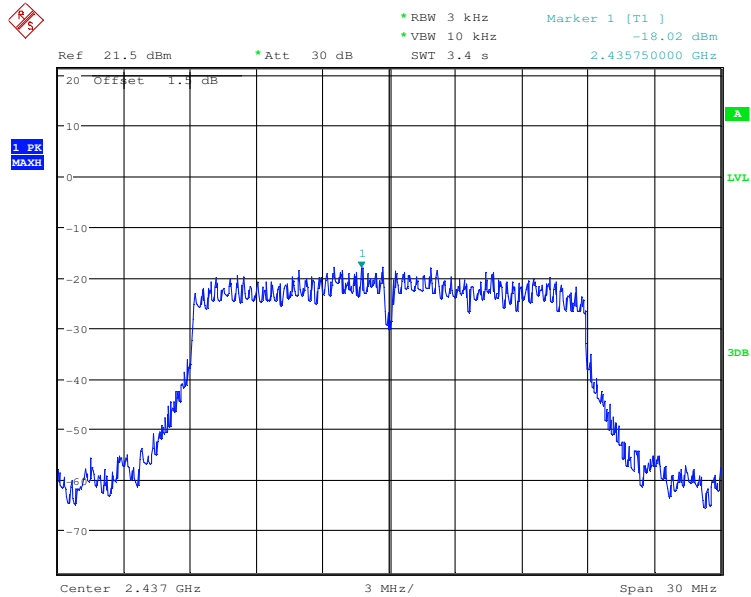
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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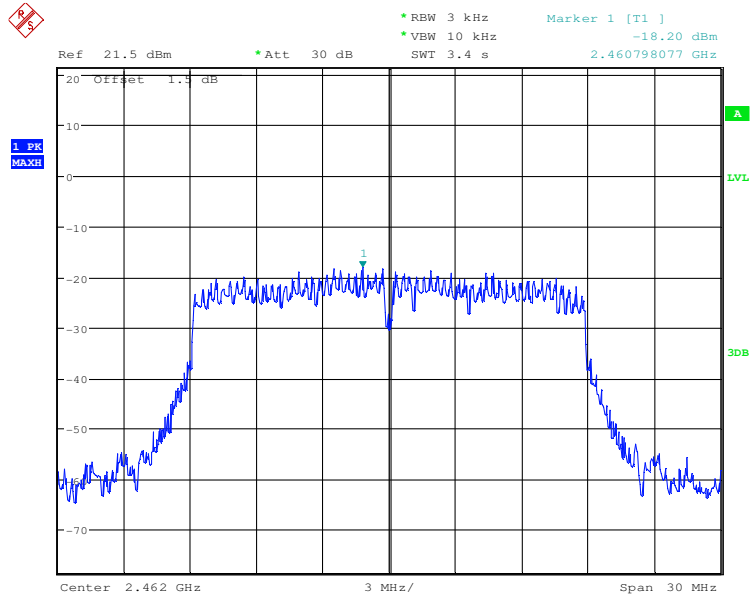
Test mode:	802.11n(HT20)	Test channel:	Middle
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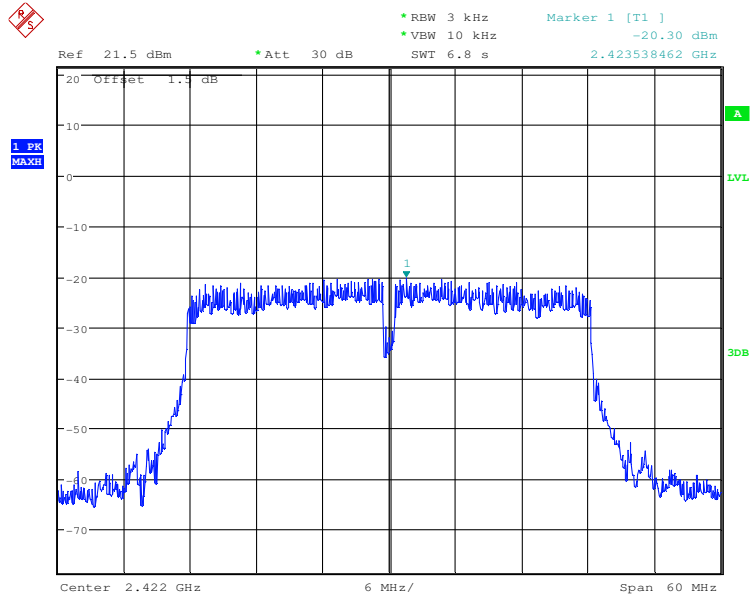
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Test mode:	802.11n(HT20)	Test channel:	Highest
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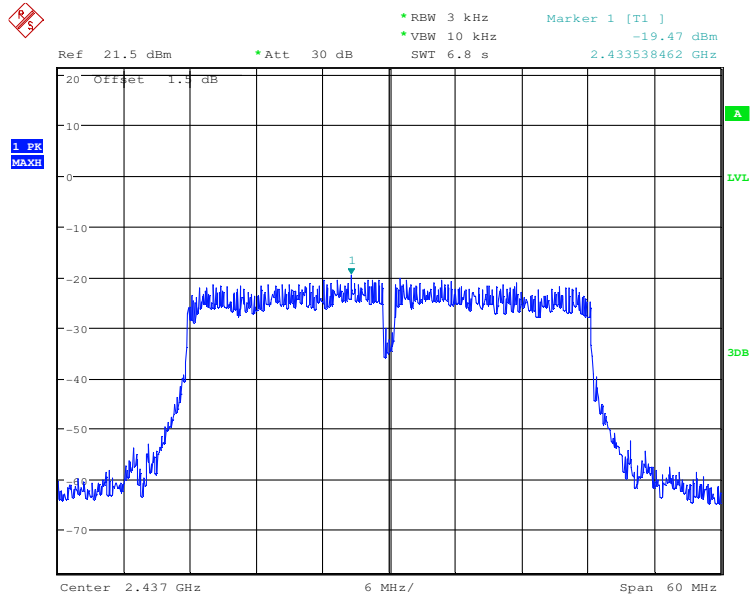
Test mode:	802.11n(HT40)	Test channel:	Lowest
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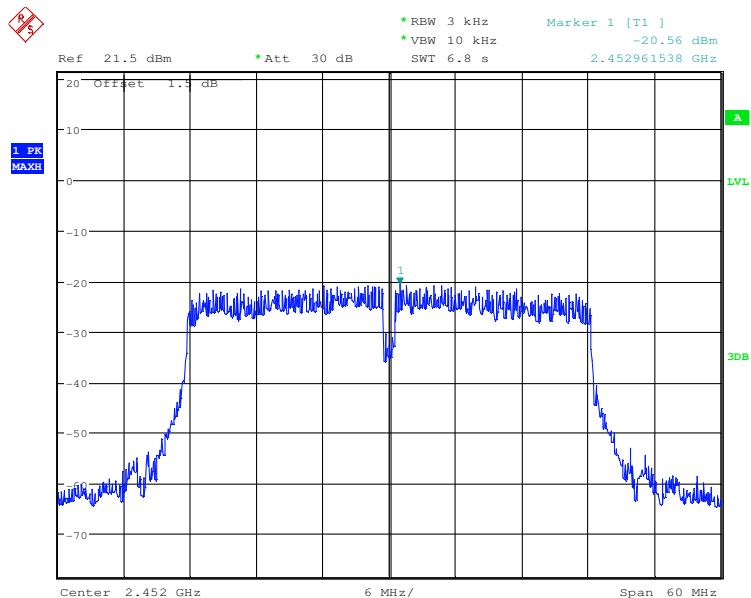
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Test mode:	802.11n(HT40)	Test channel:	Middle
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Test mode:	802.11n(HT40)	Test channel:	Highest
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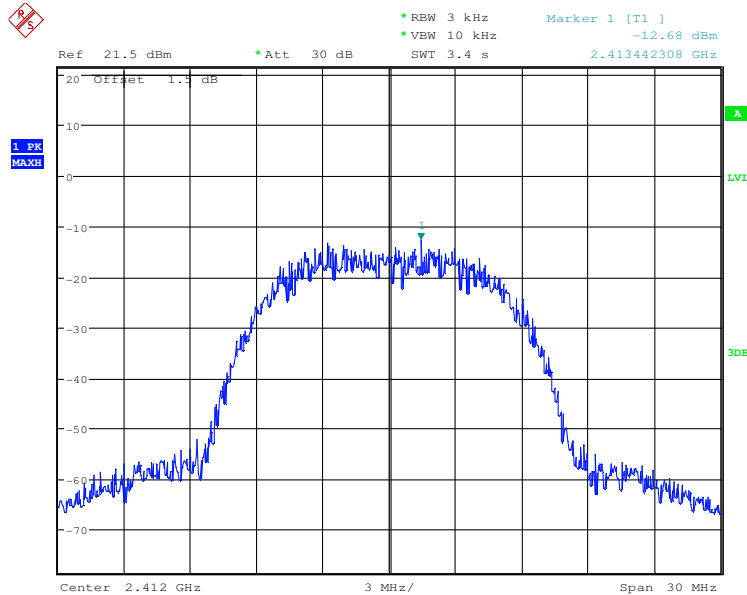


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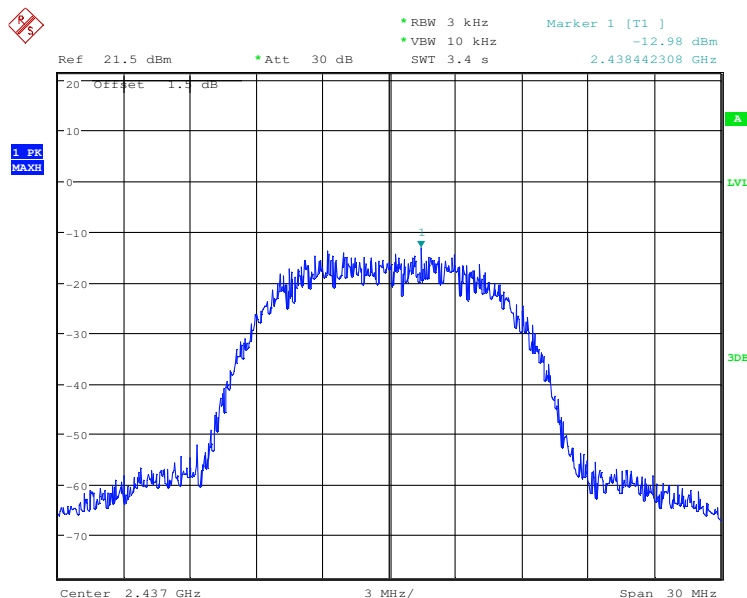


Antenna 2:

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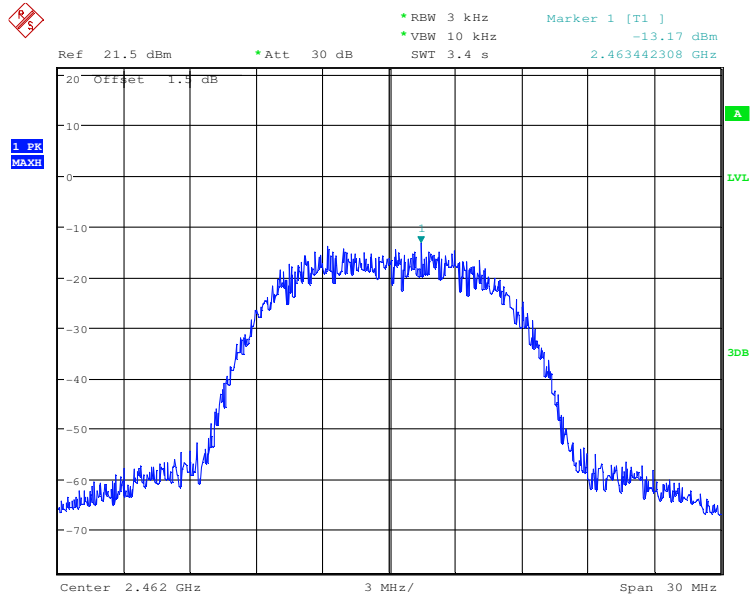
Test mode:	802.11b	Test channel:	Middle
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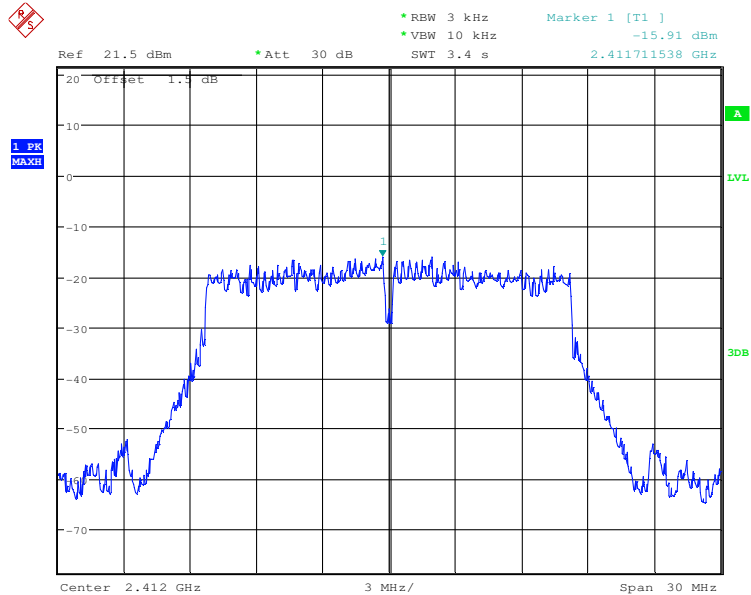
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Test mode:	802.11b	Test channel:	Highest
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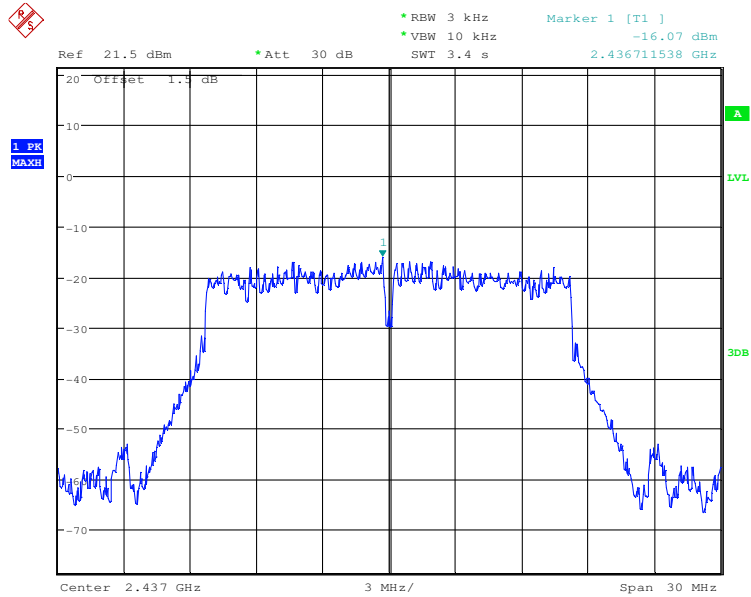
Test mode:	802.11g	Test channel:	Lowest
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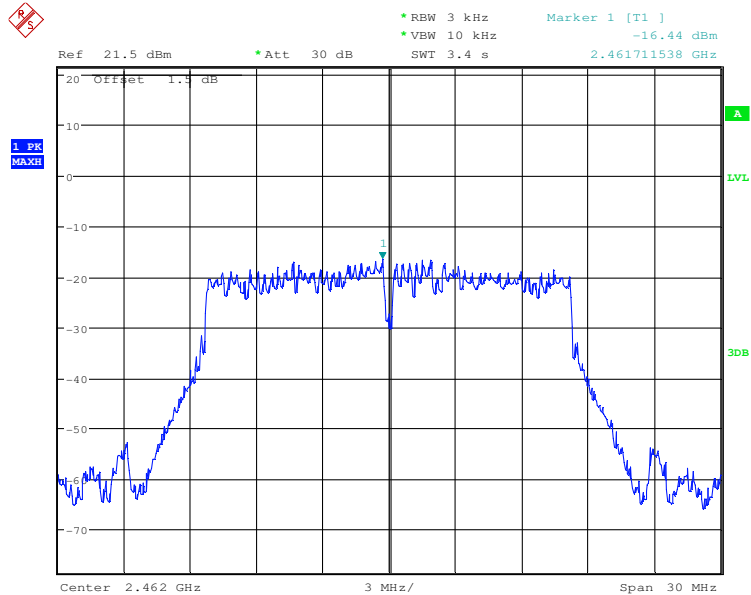
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Test mode:	802.11g	Test channel:	Middle
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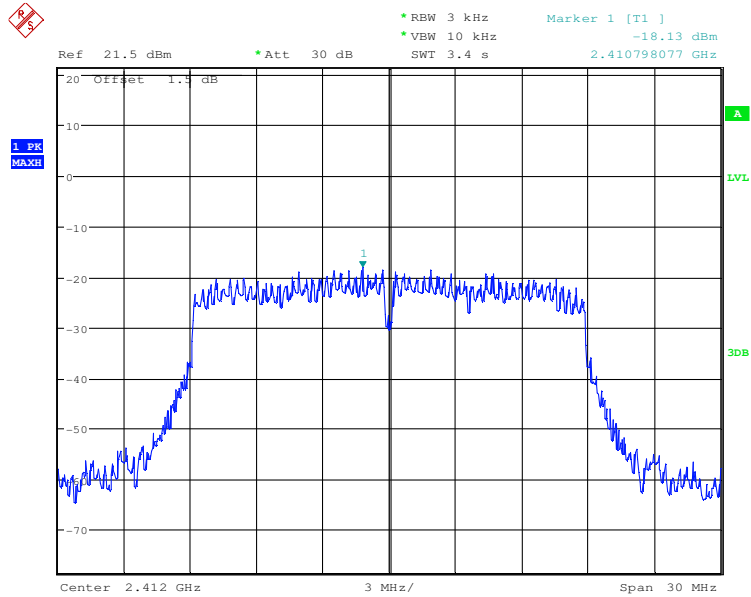
Test mode:	802.11g	Test channel:	Highest
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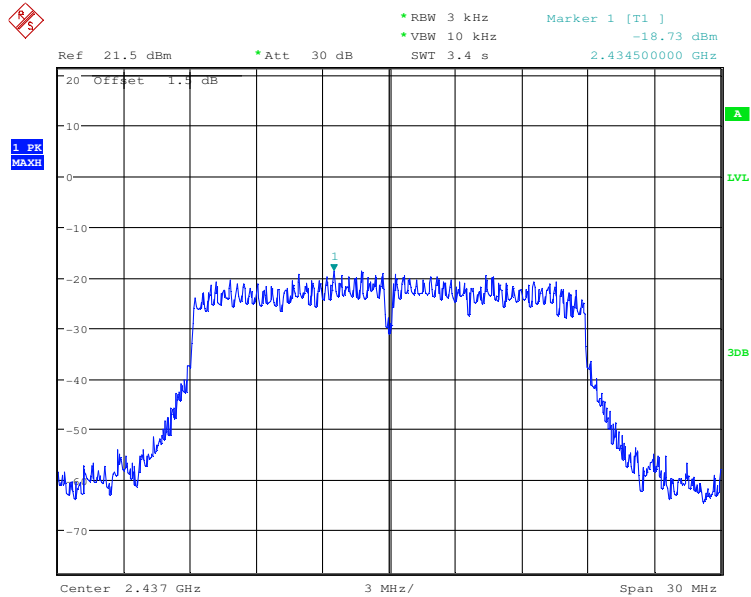
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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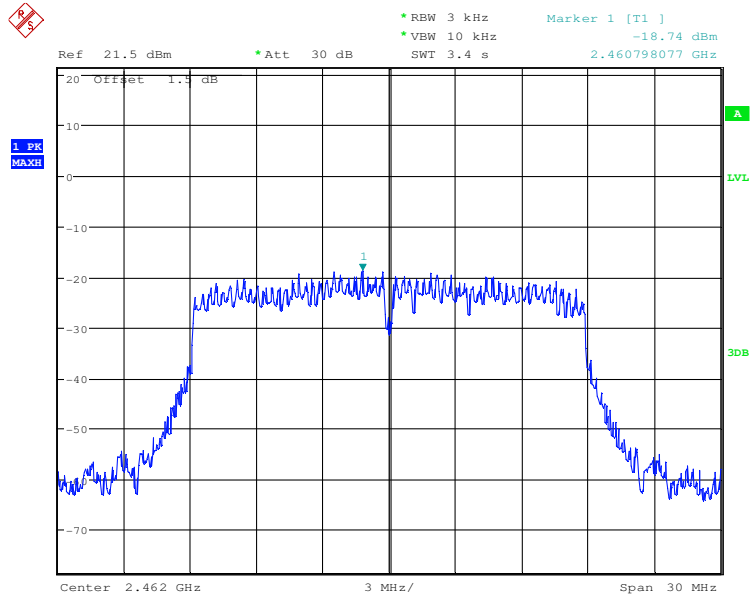
Test mode:	802.11n(HT20)	Test channel:	Middle
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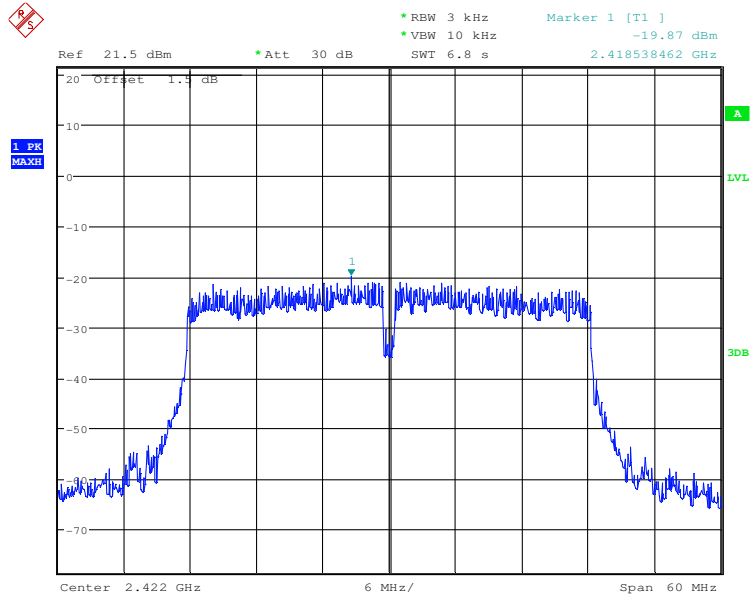
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Test mode:	802.11n(HT20)	Test channel:	Highest
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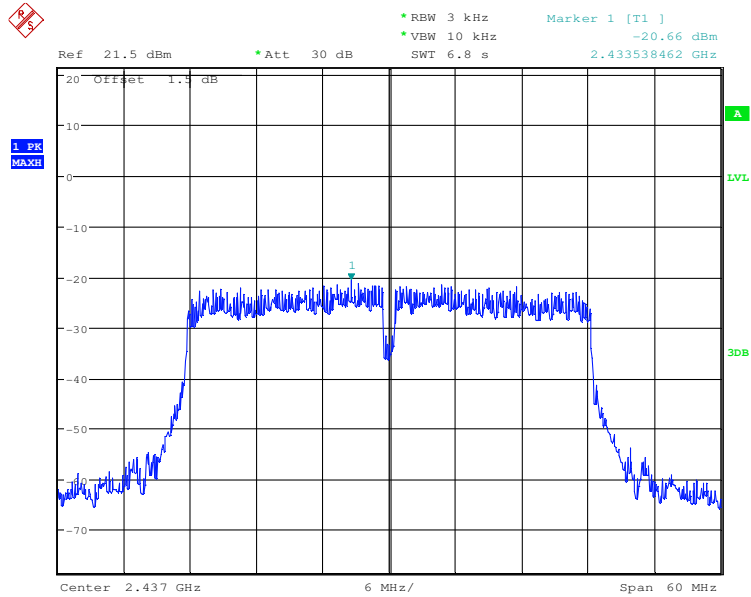
Test mode:	802.11n(HT40)	Test channel:	Lowest
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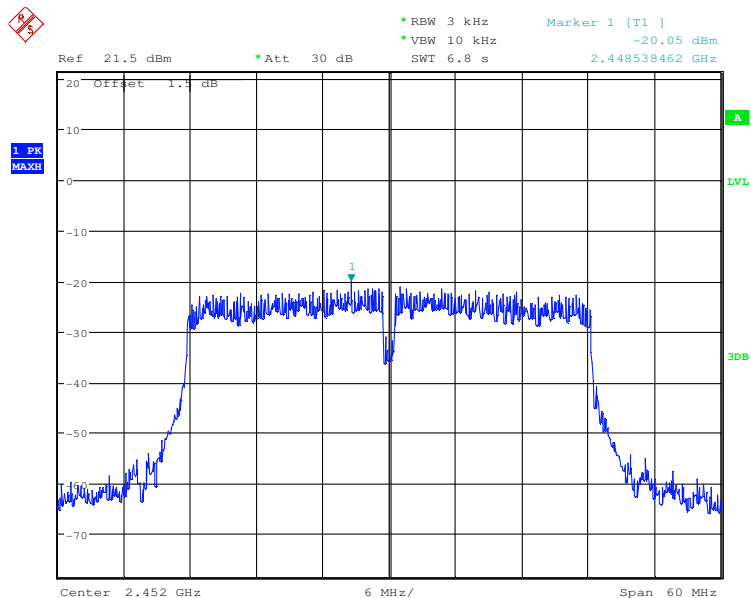
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Test mode:	802.11n(HT40)	Test channel:	Middle
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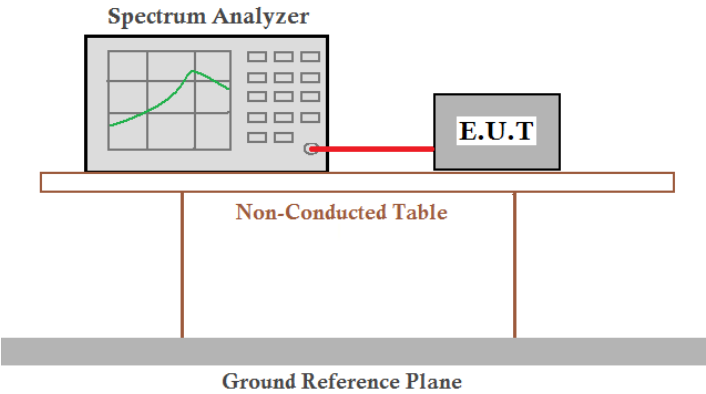


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.6 Band-edge for RF Conducted Emissions

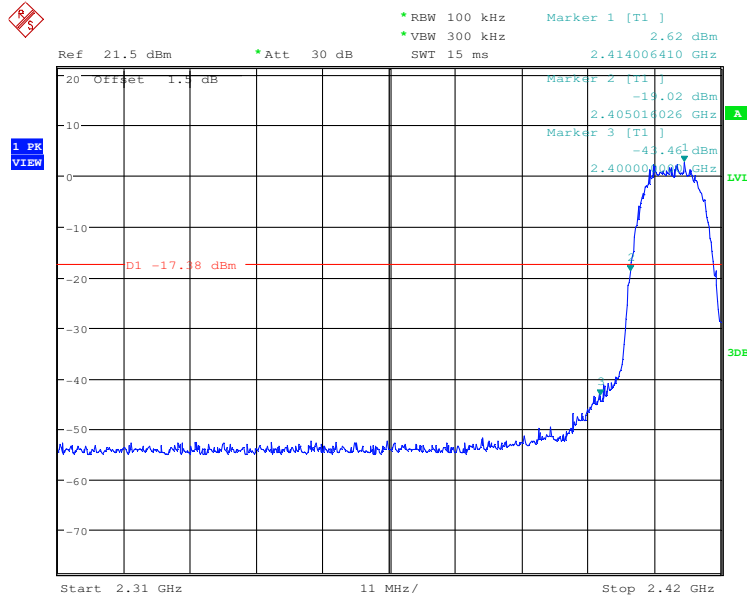
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	KDB558074 D01 v03r02 KDB662911 D01 Multiple Transmitter Output v02r01
Test Setup:	 <p><i>Remark:</i> <i>Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</i></p>
Exploratory Test Mode:	Transmitting with all kind of modulations, 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
	Noted: According to KDB662911 D01 Multiple Transmitter Output v02r01, section E) 3) a)(iii), Final value = Measure value + 10 log(N _{ANT}). Where (N _{ANT}) is the number of output



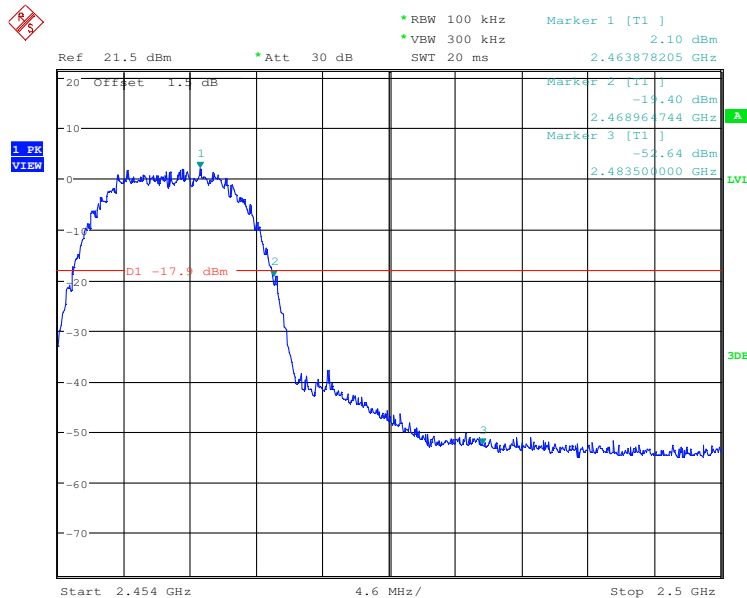
Test plot as follows:

Antenna 1:

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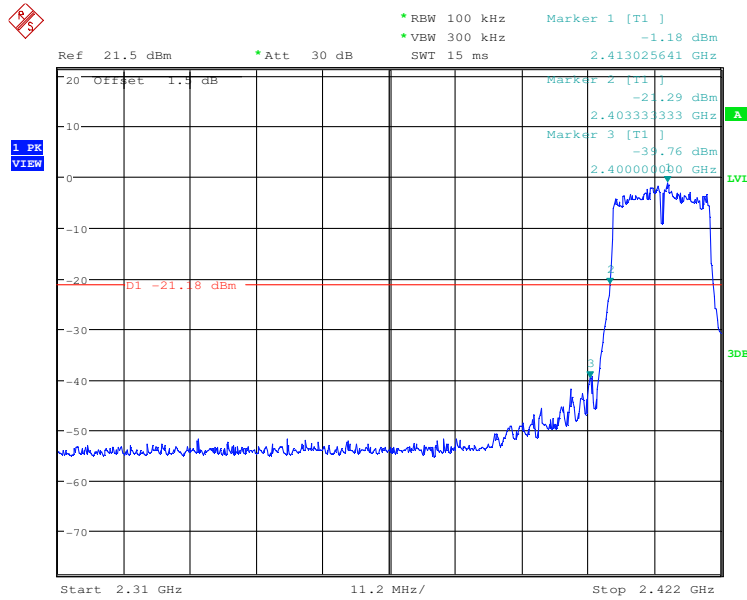
Test mode:	802.11b	Test channel:	Highest
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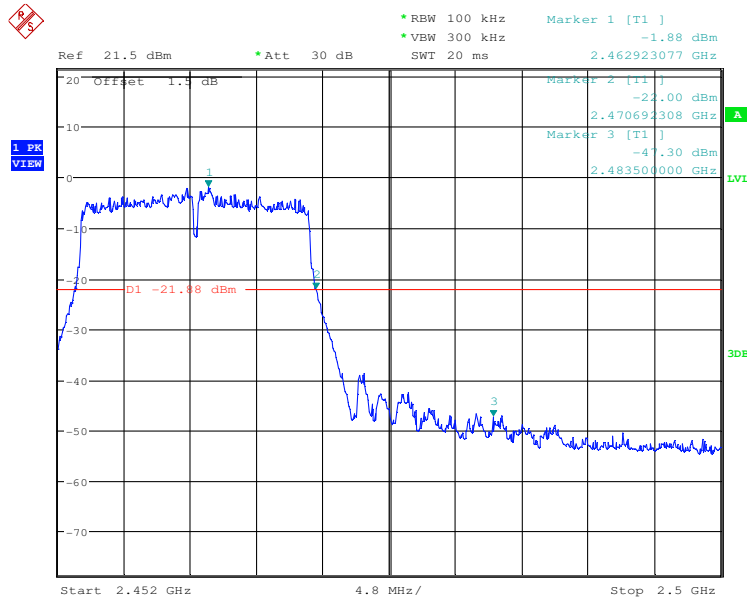
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Test mode:	802.11g	Test channel:	Lowest
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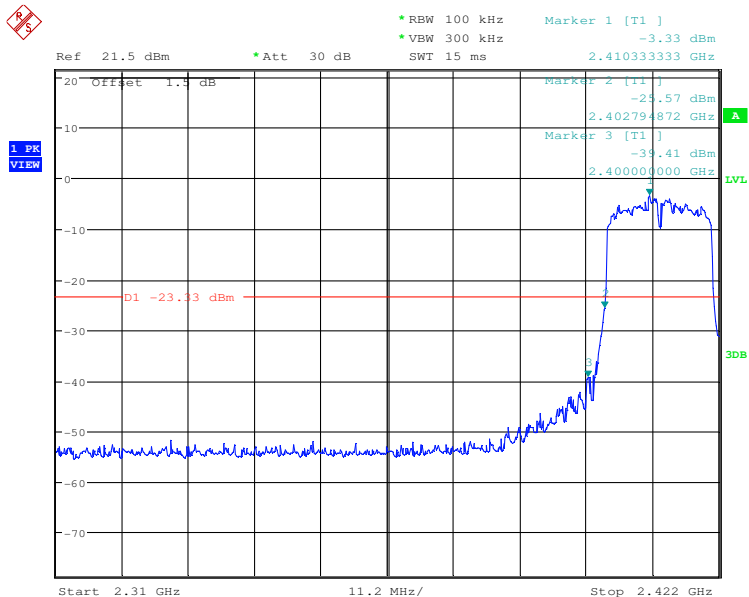
Test mode:	802.11g	Test channel:	Highest
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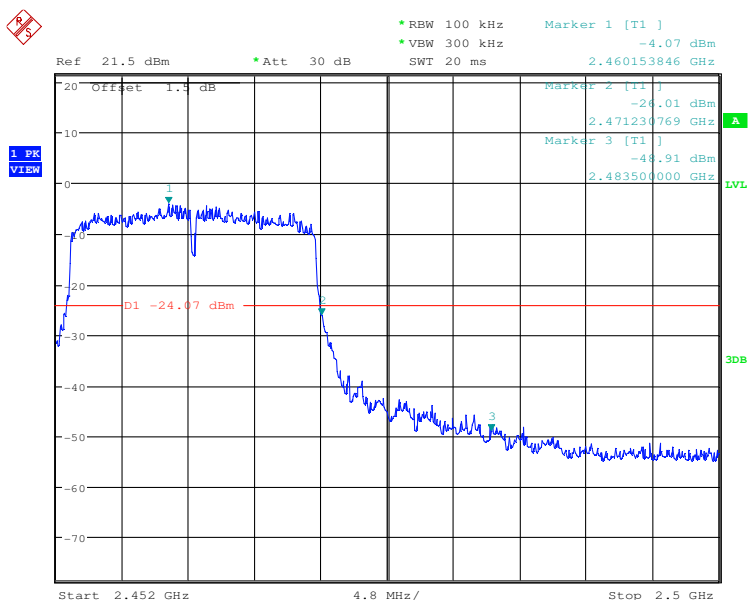
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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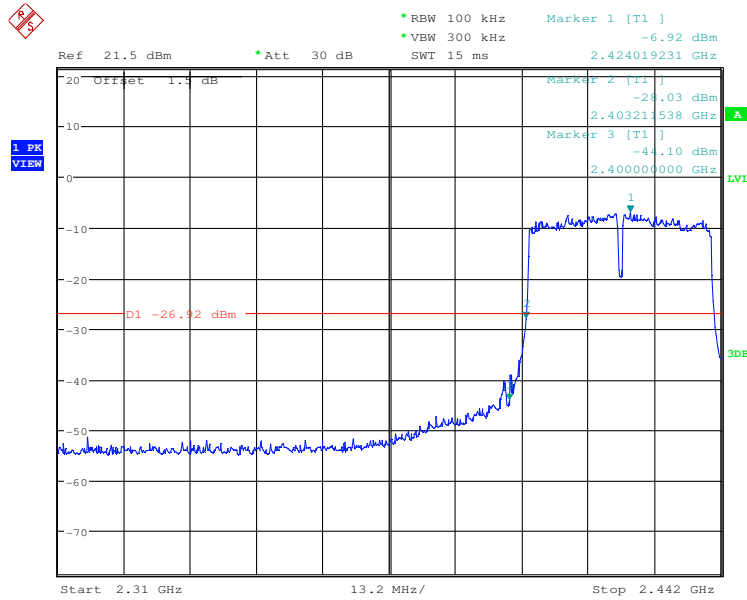
Test mode:	802.11n(HT20)	Test channel:	Highest
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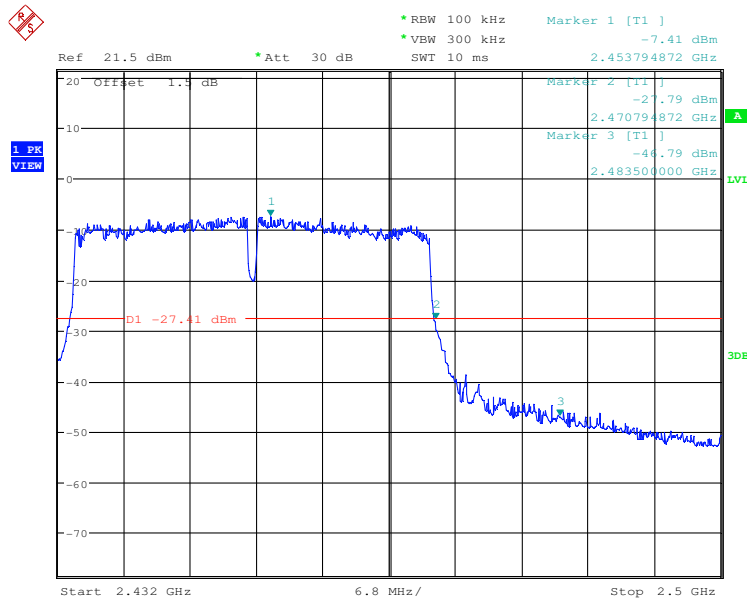
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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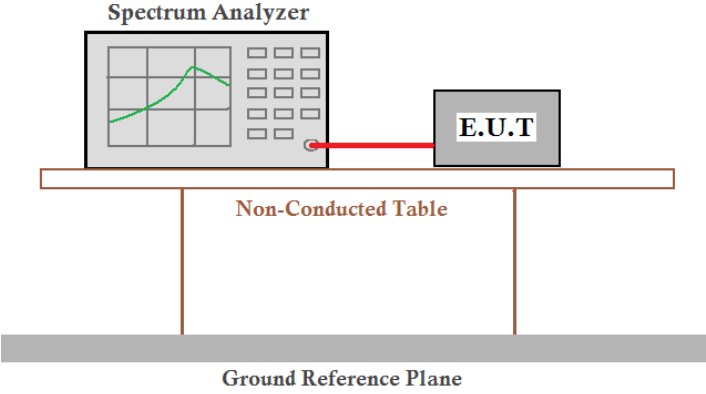


Test mode:	802.11n(HT40)	Test channel:	Highest
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6.7 RF Conducted Spurious Emissions

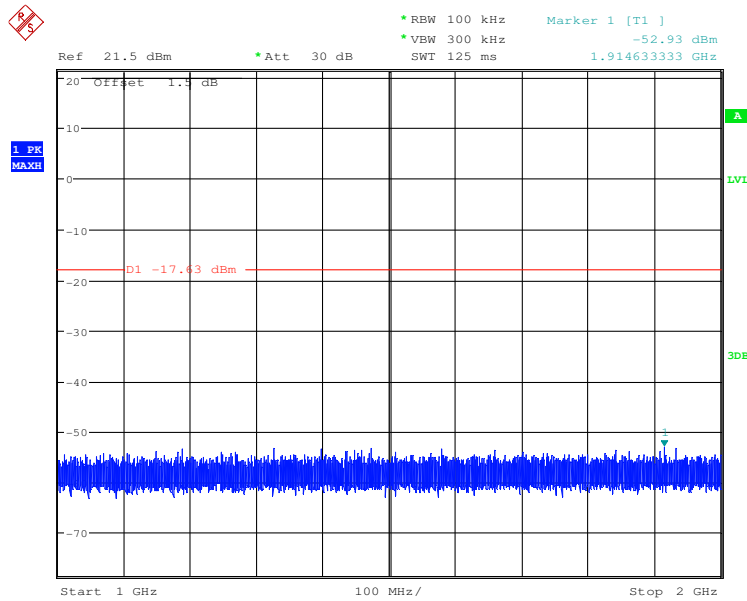
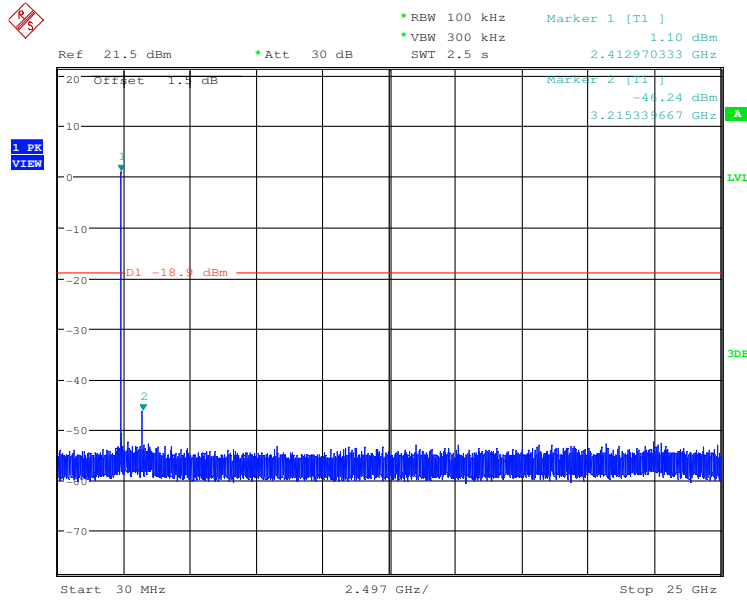
Test Requirement:	47 CFR Part 15C Section 15.247 (d)
Test Method:	KDB558074 D01 v03r02 KDB662911 D01 Multiple Transmitter Output v02r01
Test Setup:	 <p><i>Remark:</i> Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer.</p>
Exploratory Test Mode:	Transmitting with all kind of modulations, 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
	Noted: According to KDB662911 D01 Multiple Transmitter Output v02r01, section E) 3) a)(iii), Final value = Measure value + 10 log(N _{ANT}). Where (N _{ANT}) is the number of output



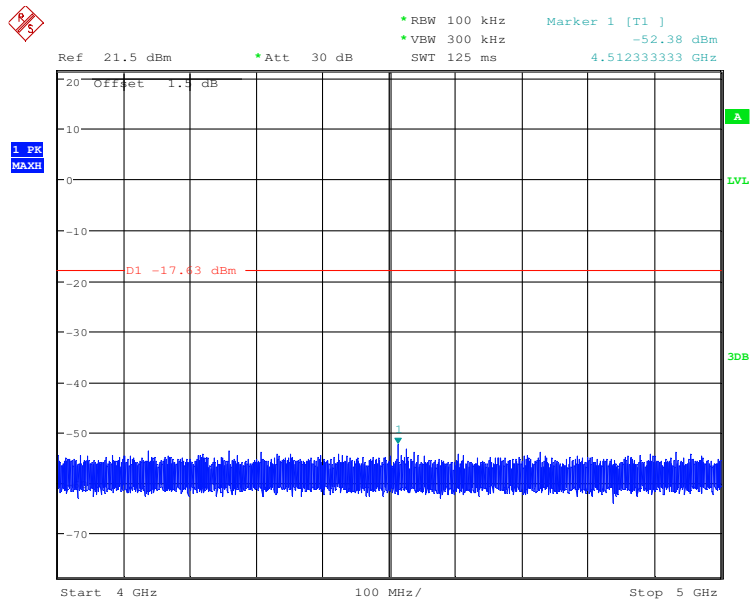
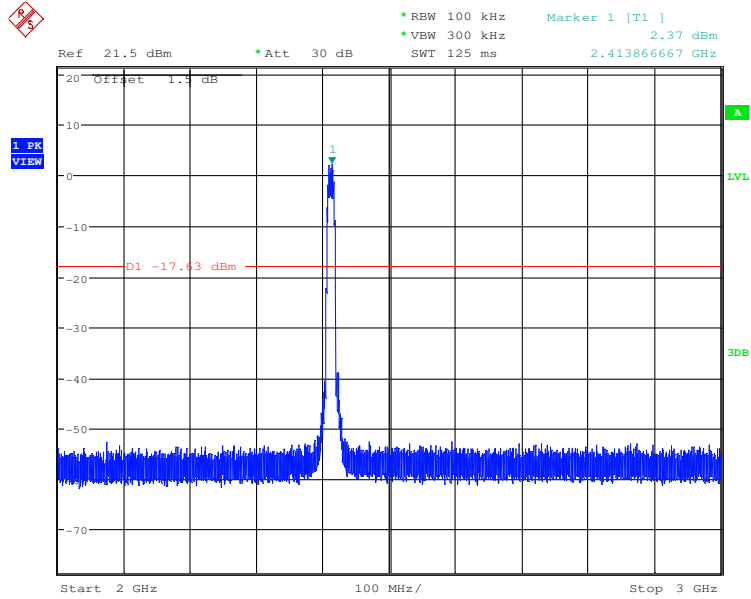
Test plot as follows:

Antenna 1:

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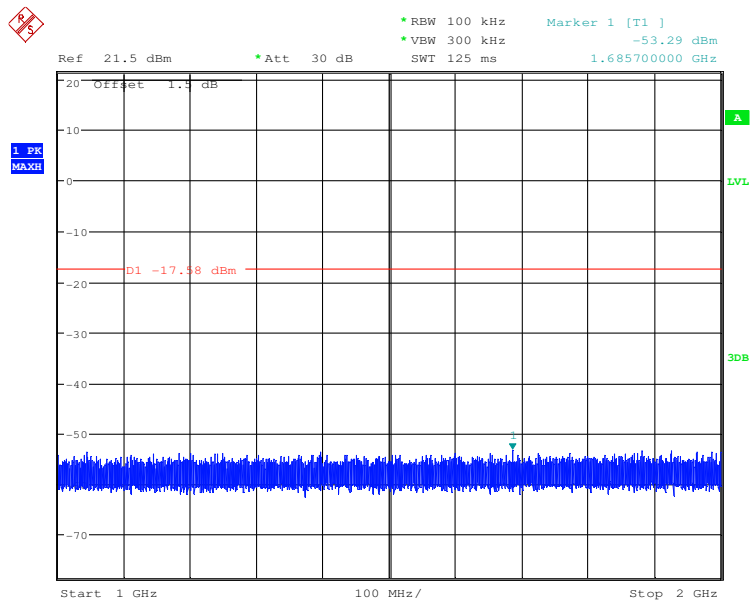
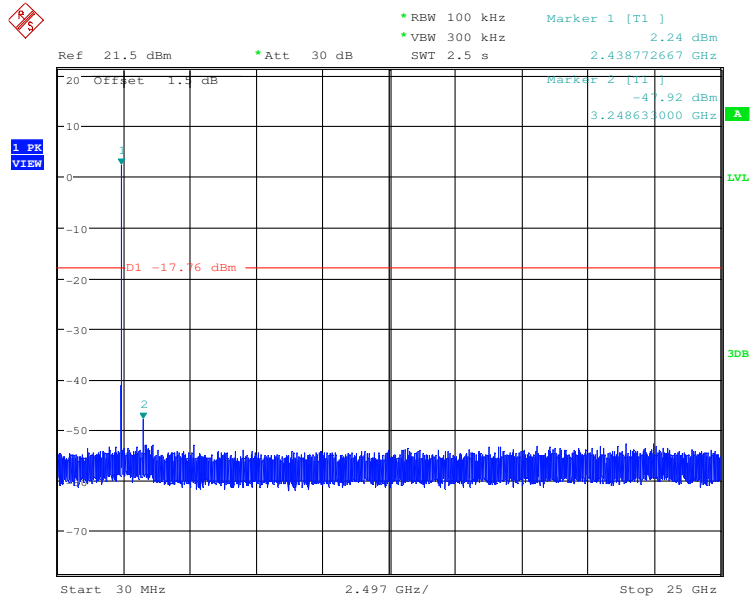
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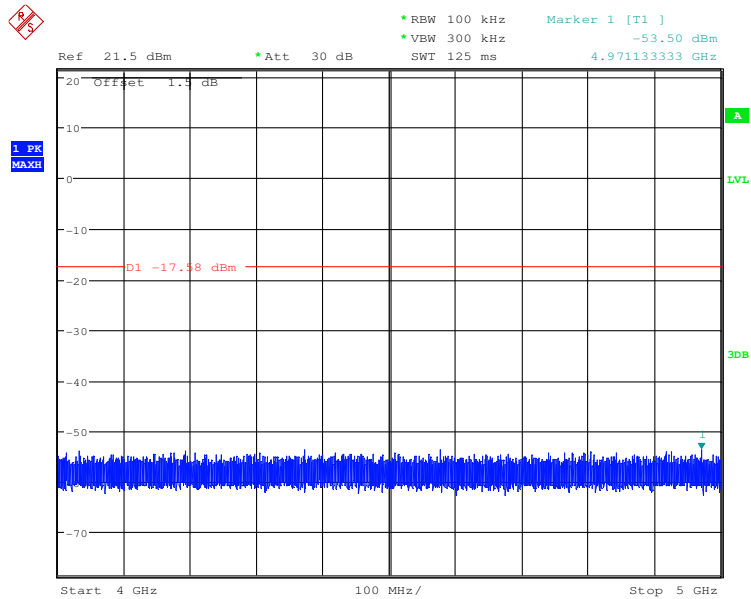
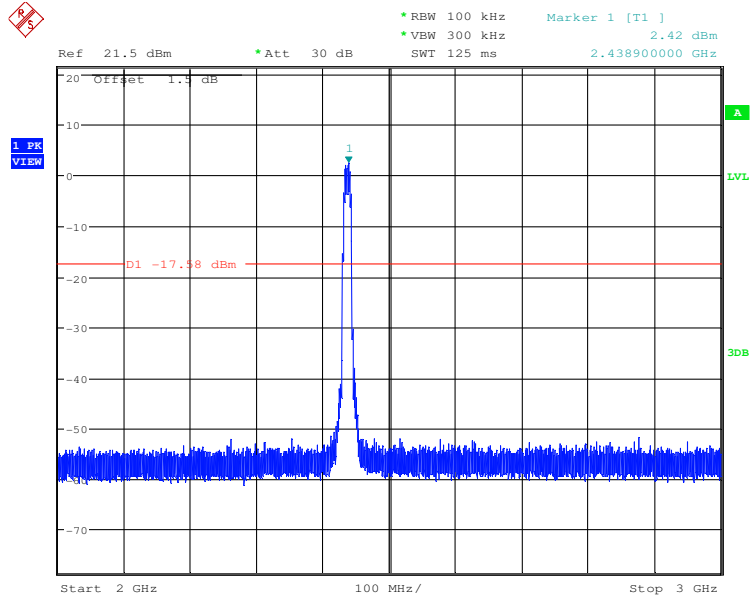
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Test mode:	802.11b	Test channel:	Middle
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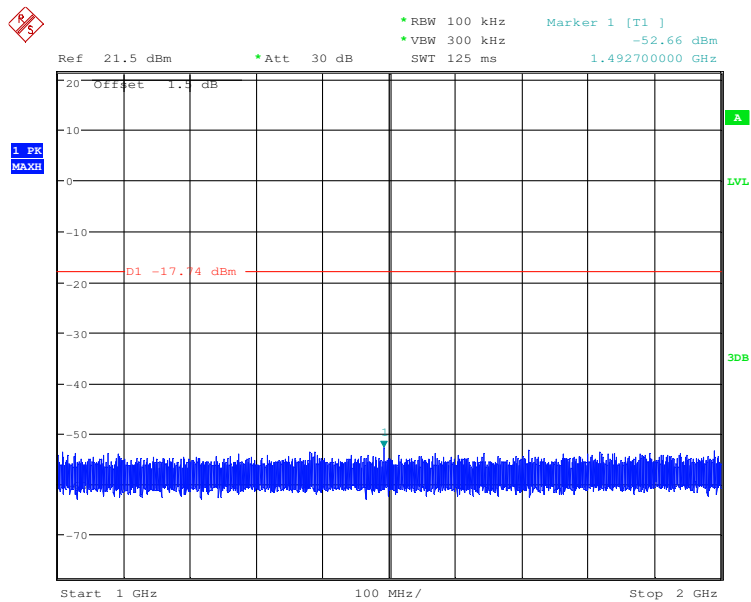
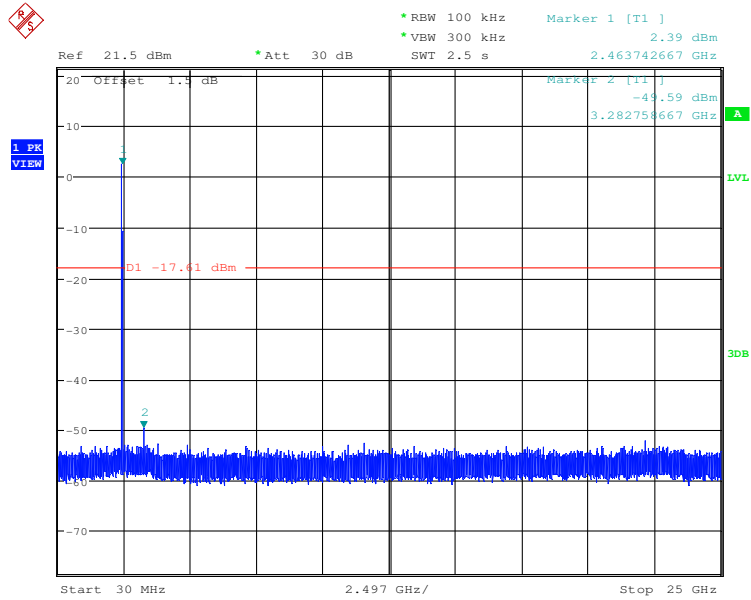
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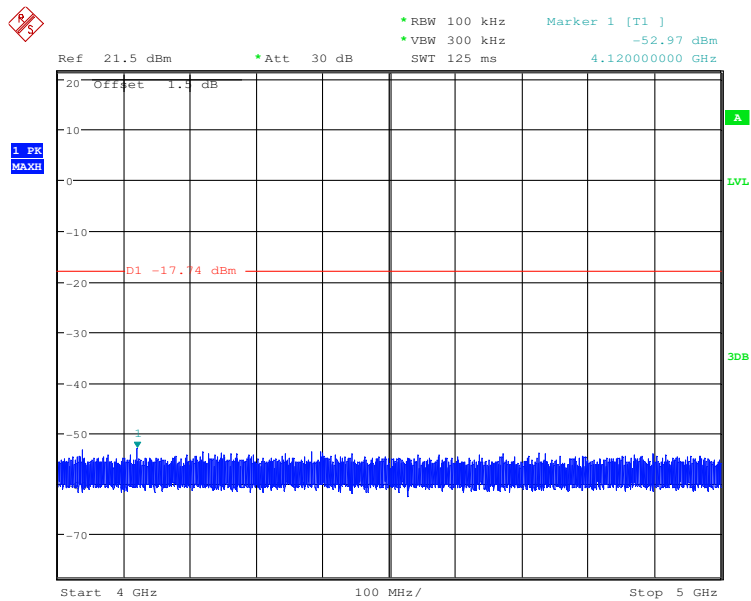
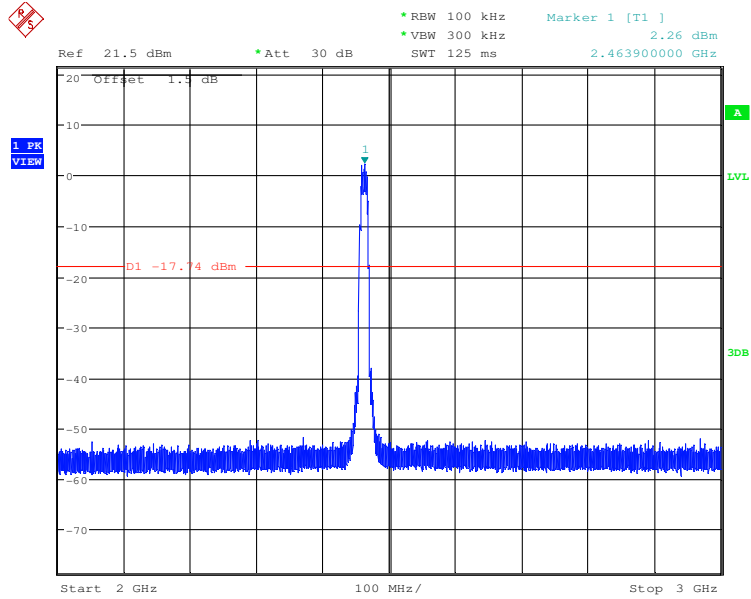
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Test mode:	802.11b	Test channel:	Highest
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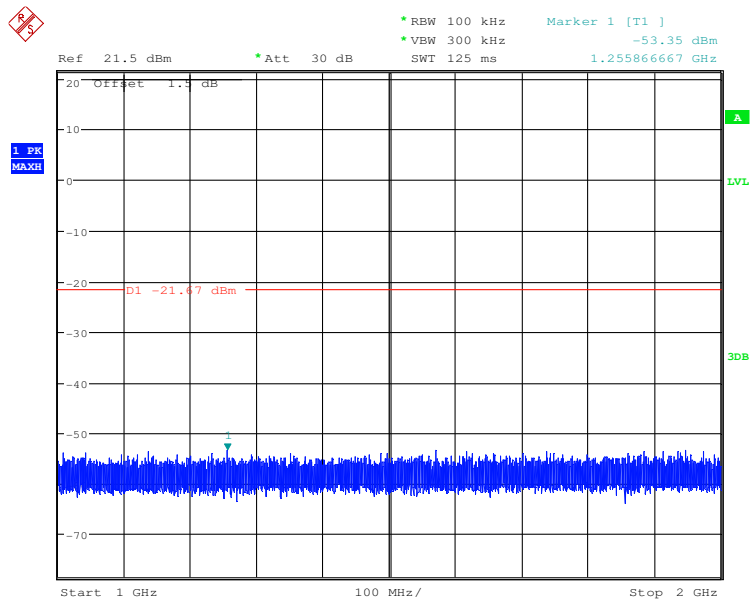
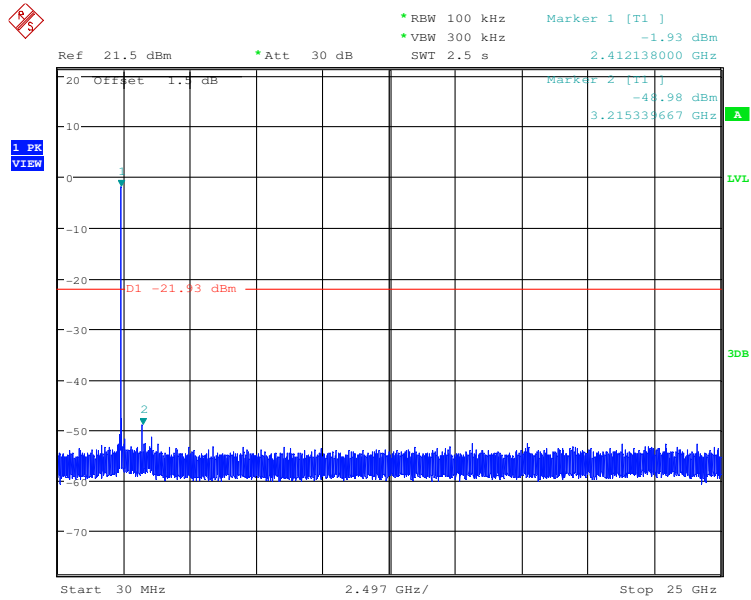
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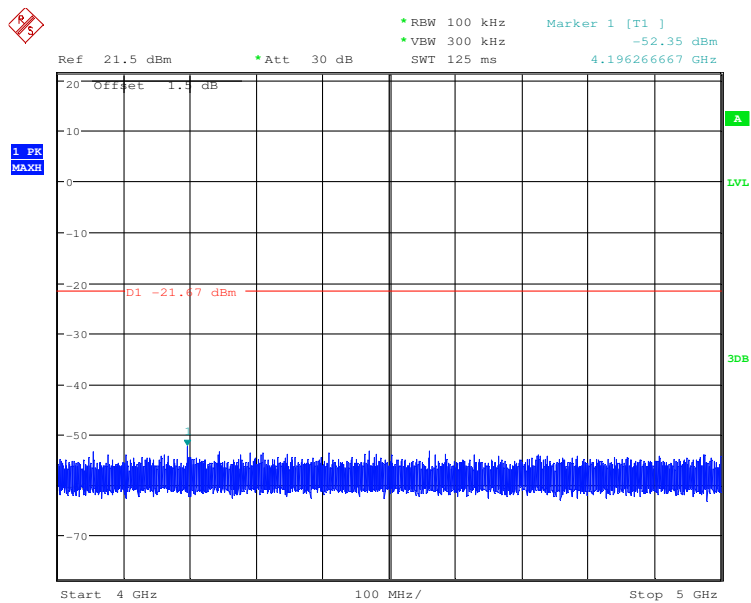
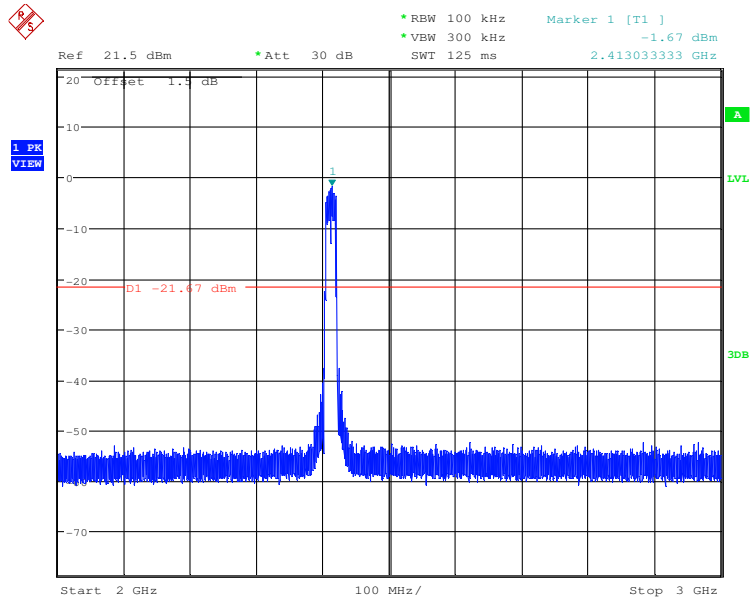
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Test mode:	802.11g	Test channel:	Lowest
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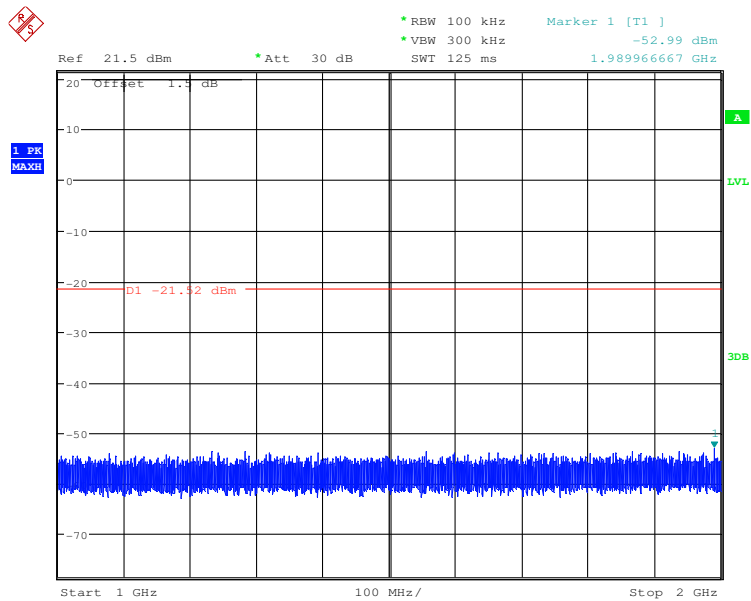
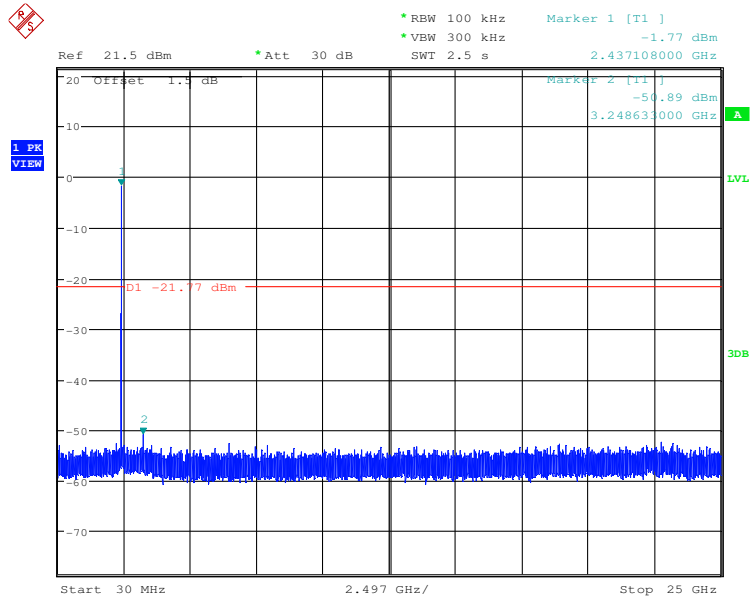


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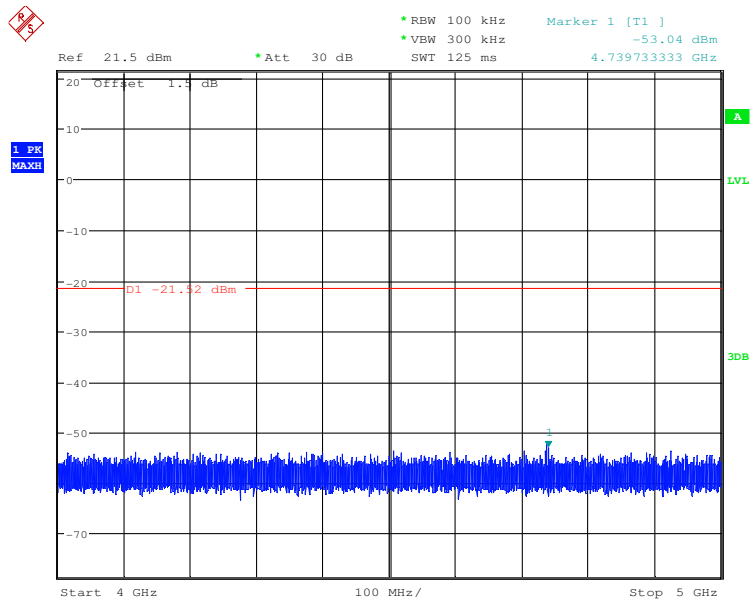
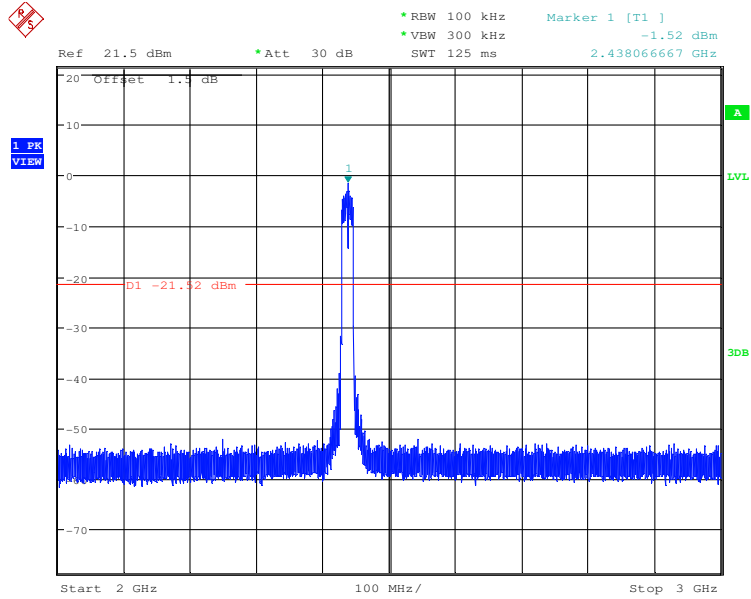
Report No.: SZEM141000589202

Page: 74 of 165

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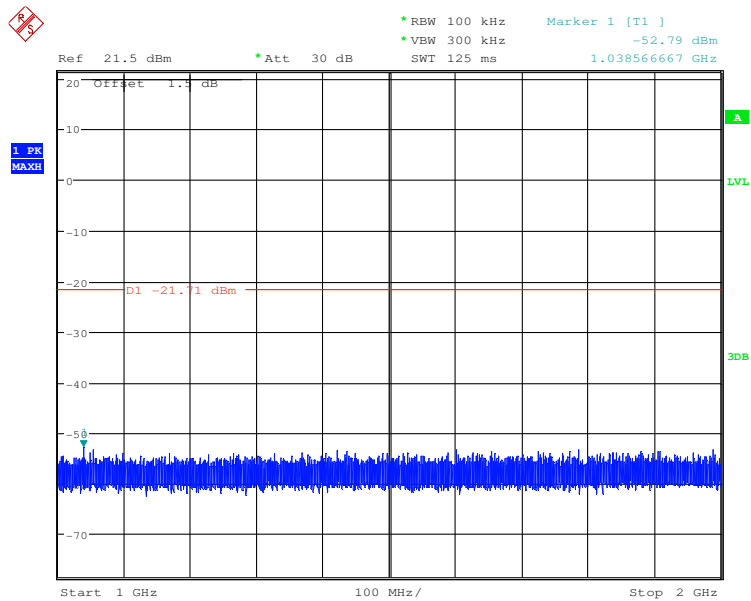
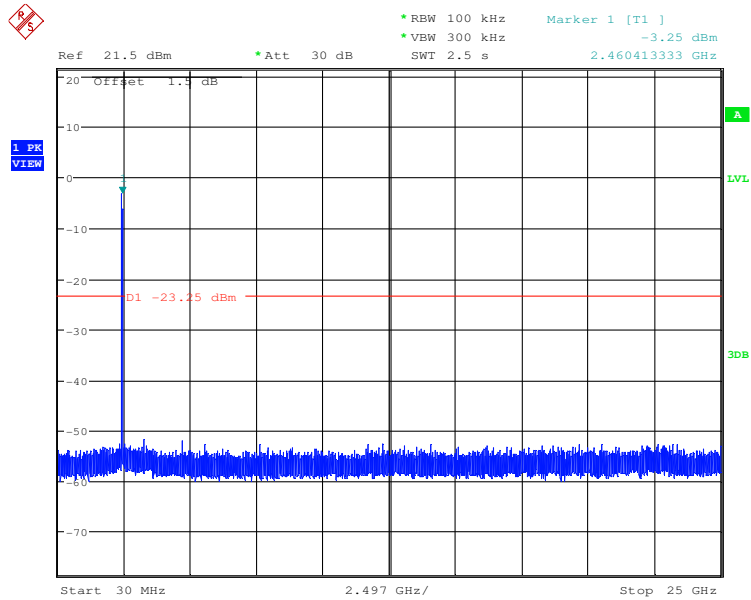
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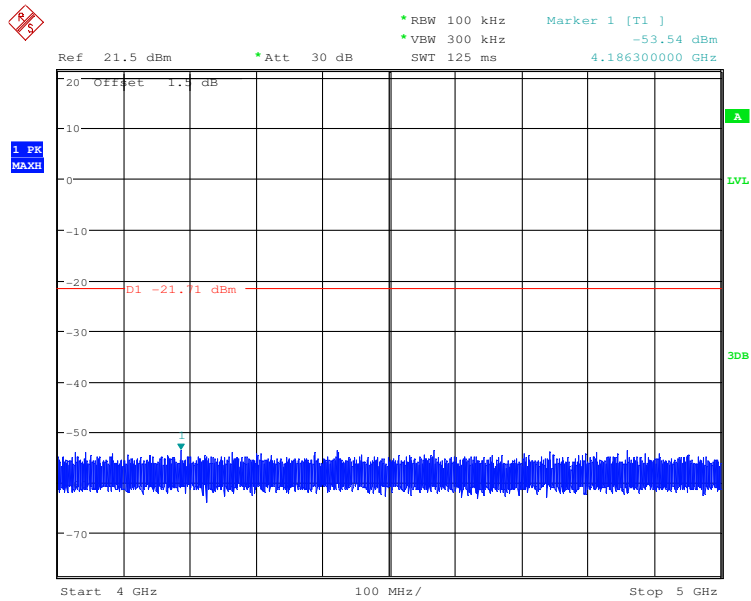
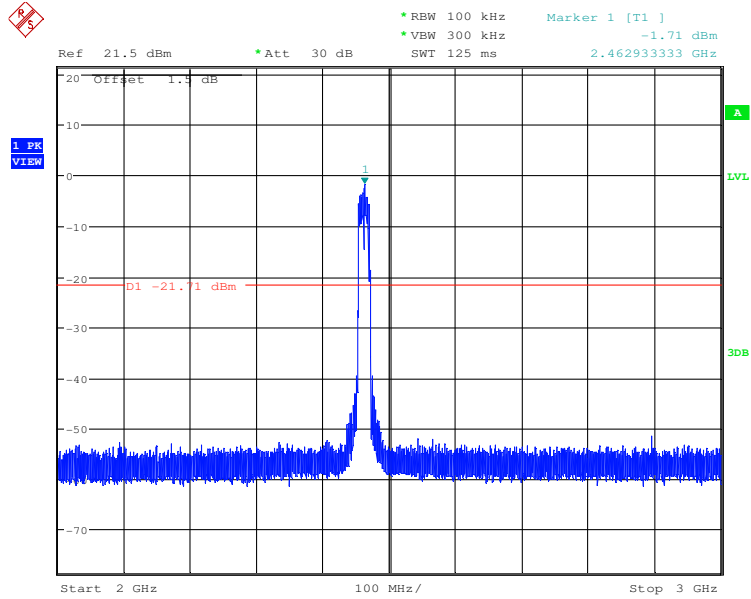
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Test mode:	802.11g	Test channel:	Highest
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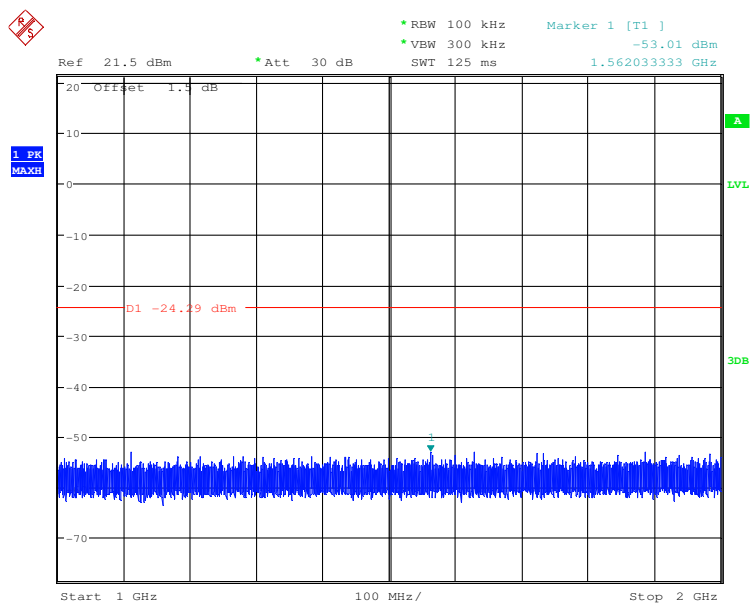
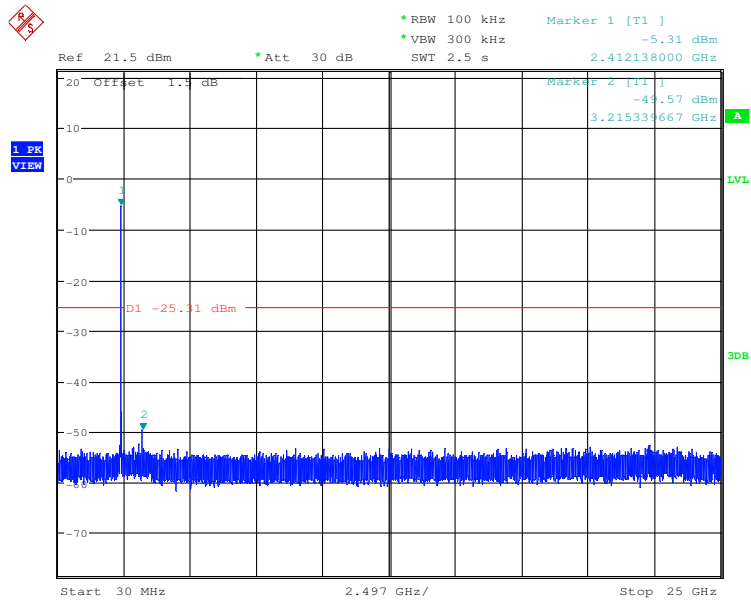
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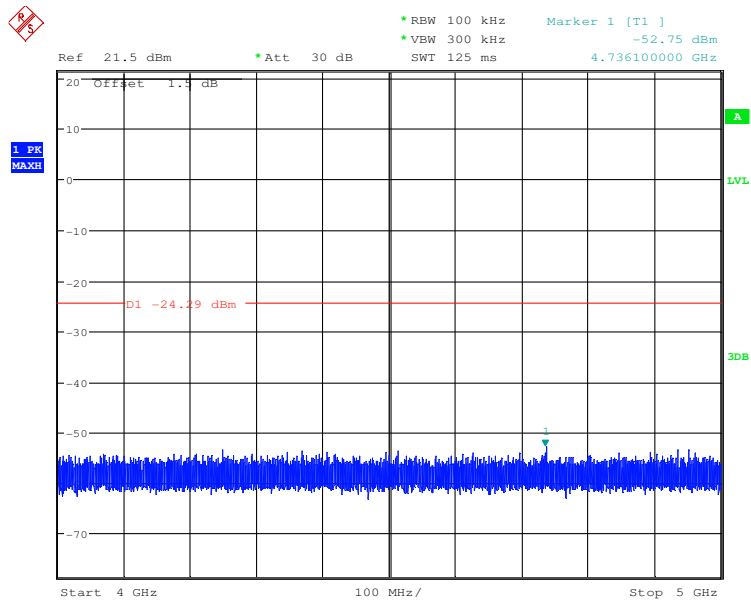
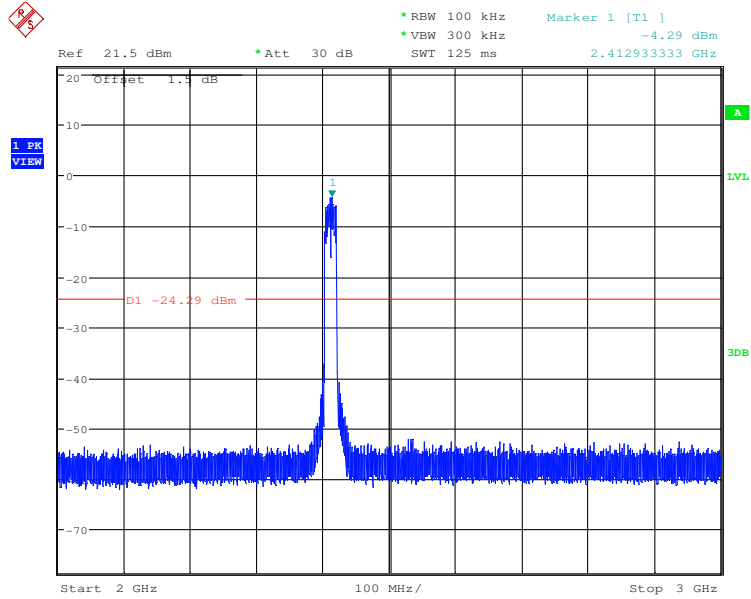
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Test mode:	802.11n(HT20)	Test channel:	Lowest
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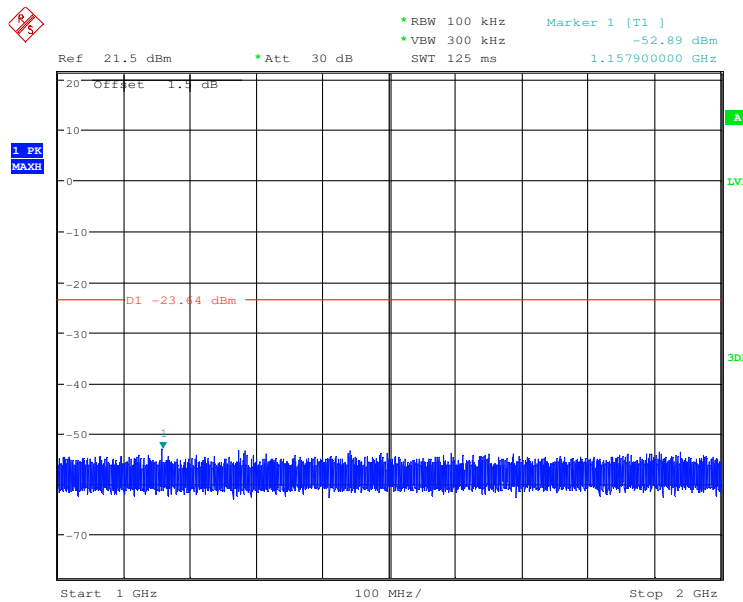
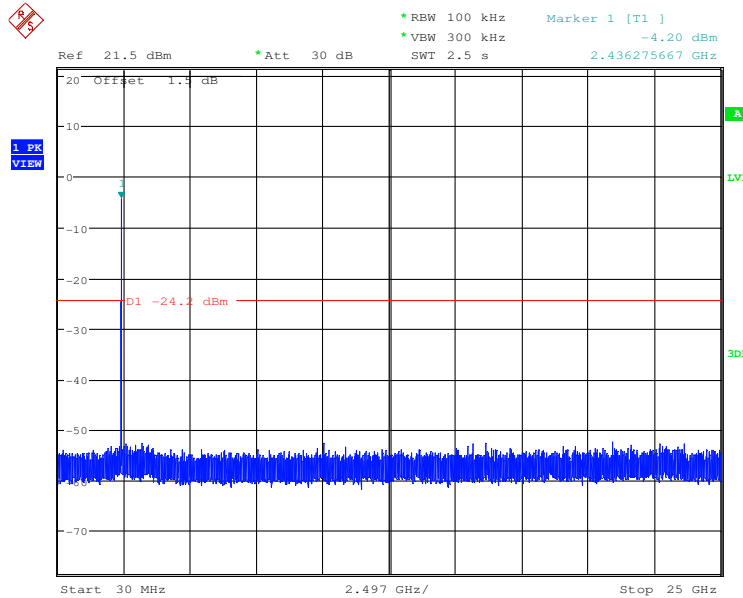
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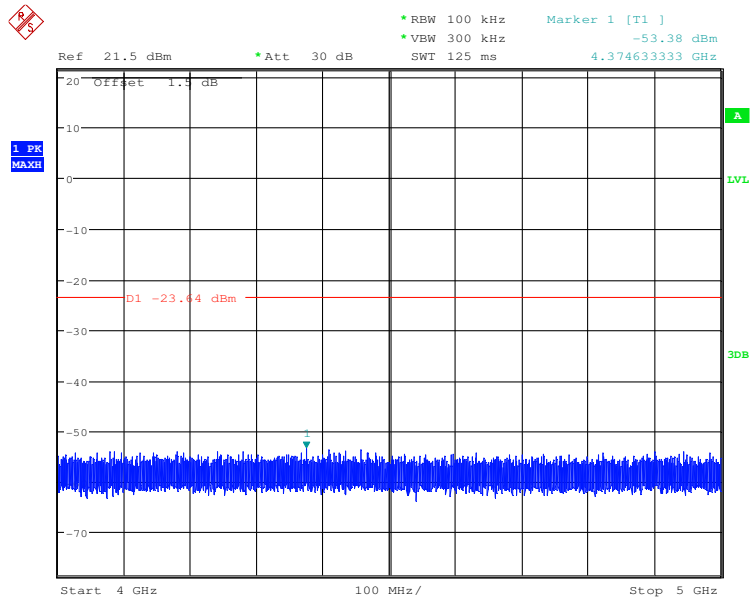
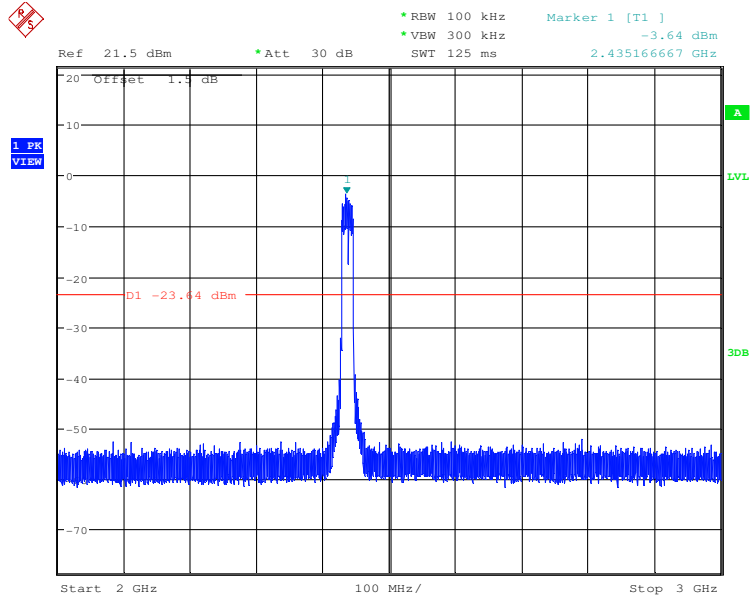
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Test mode:	802.11n(HT20)	Test channel:	Middle
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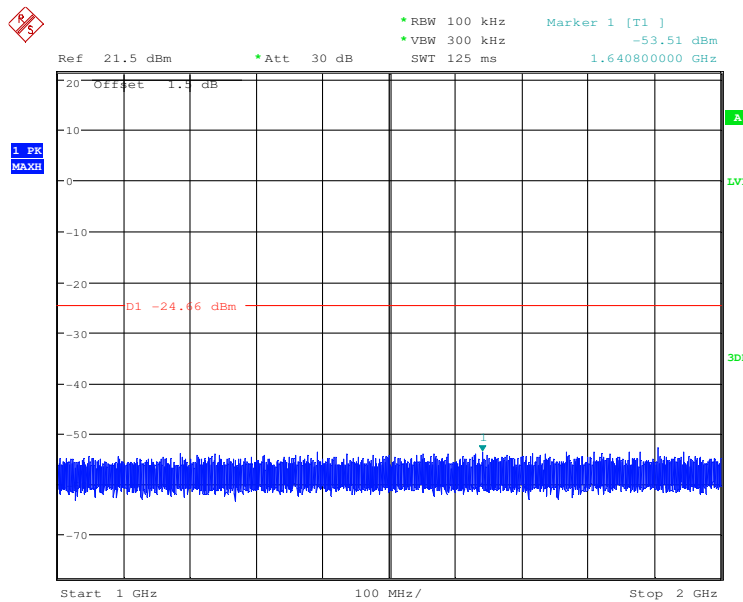
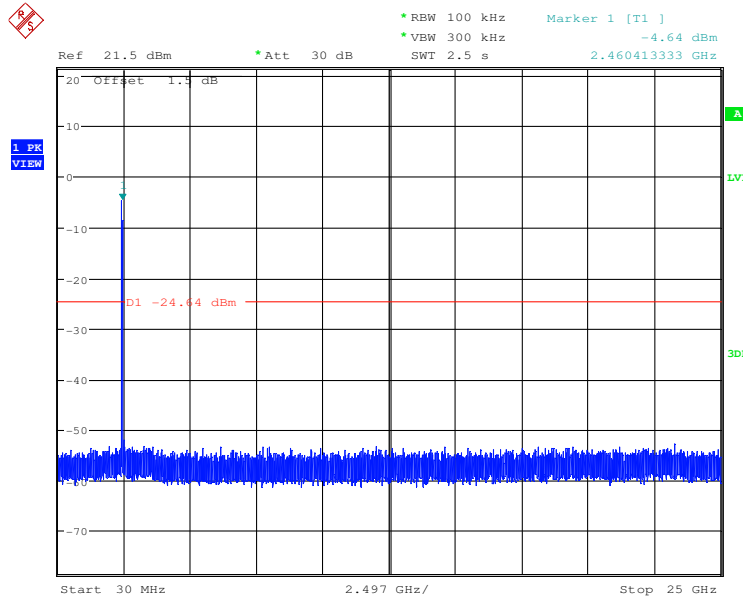


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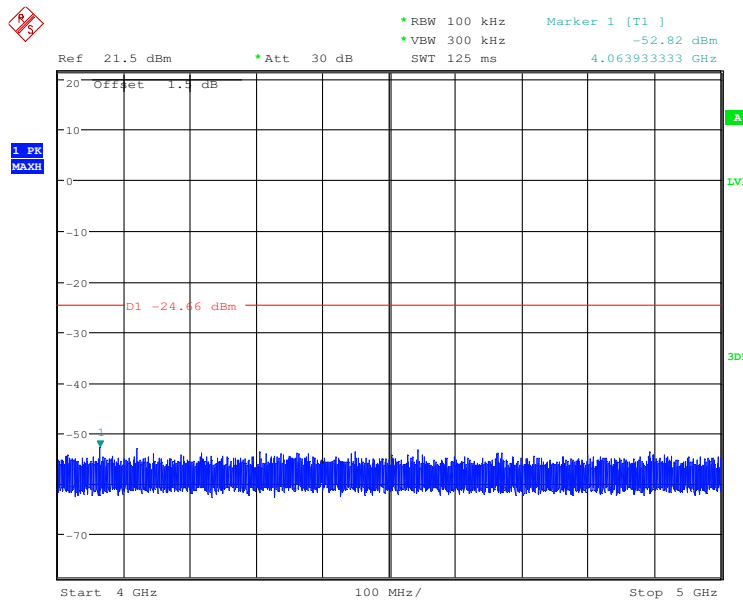
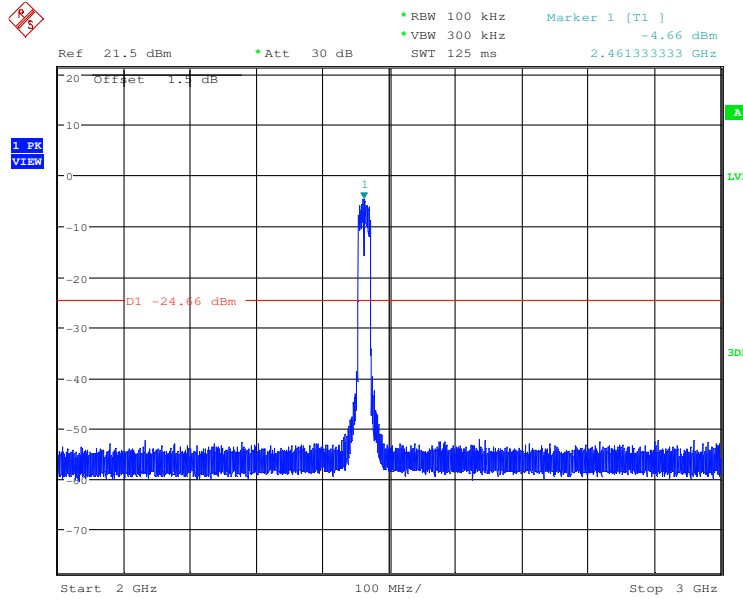
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Test mode:	802.11n(HT20)	Test channel:	Highest
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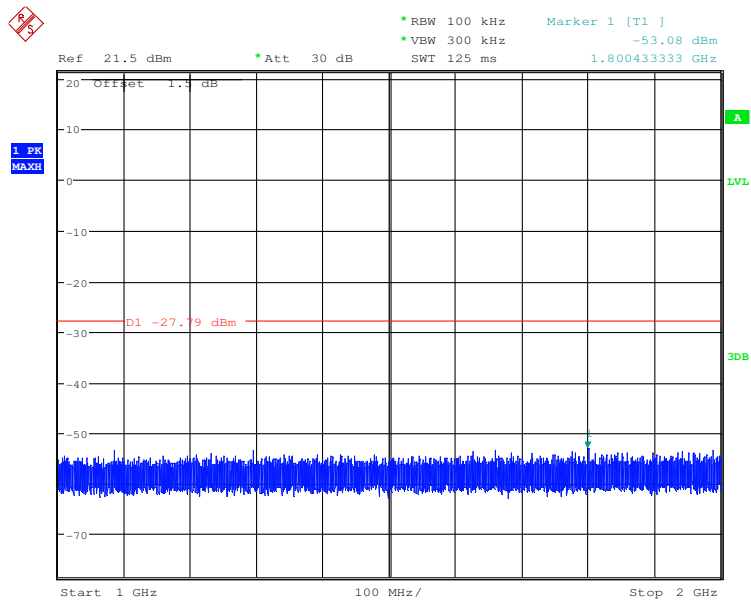
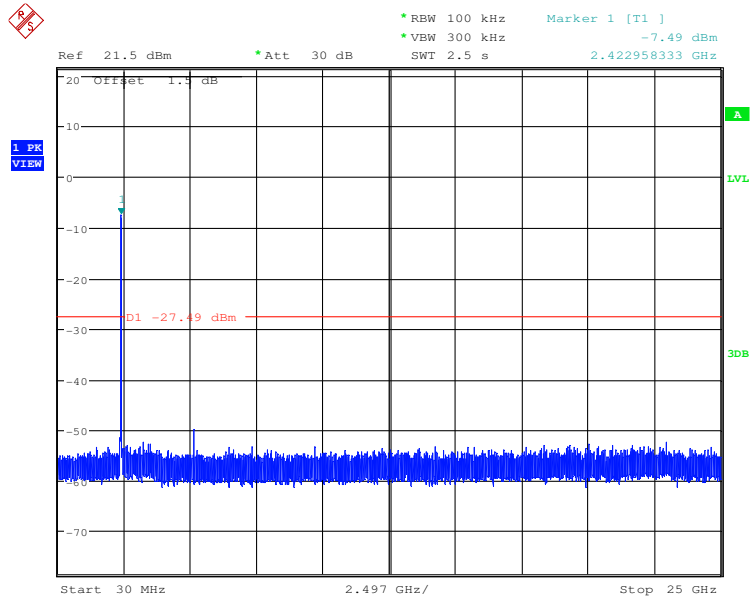
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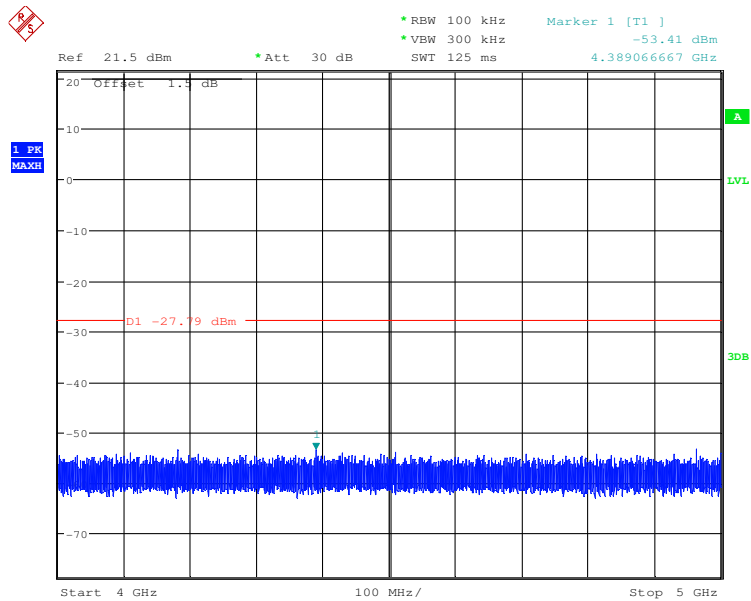
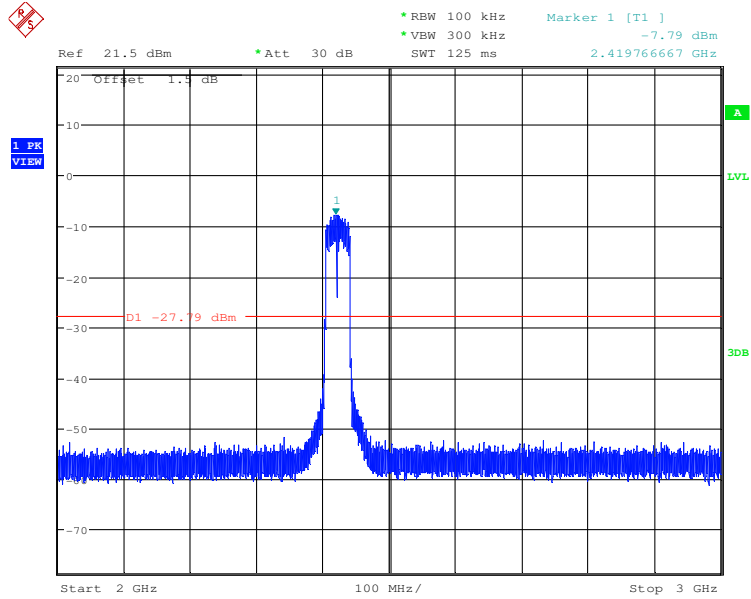
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Test mode:	802.11n(HT40)	Test channel:	Lowest
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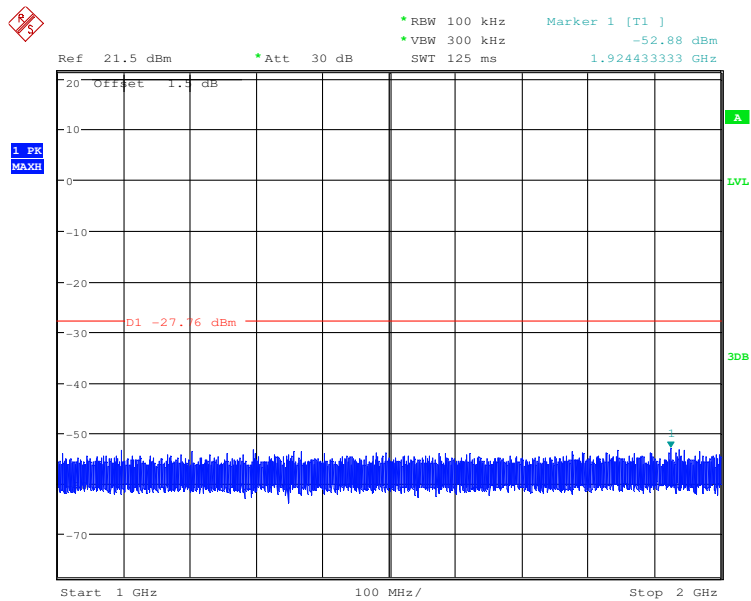
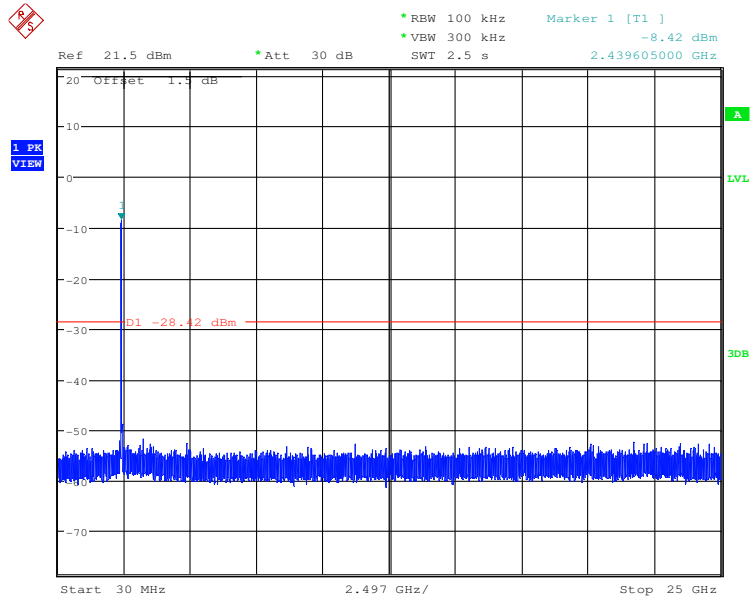
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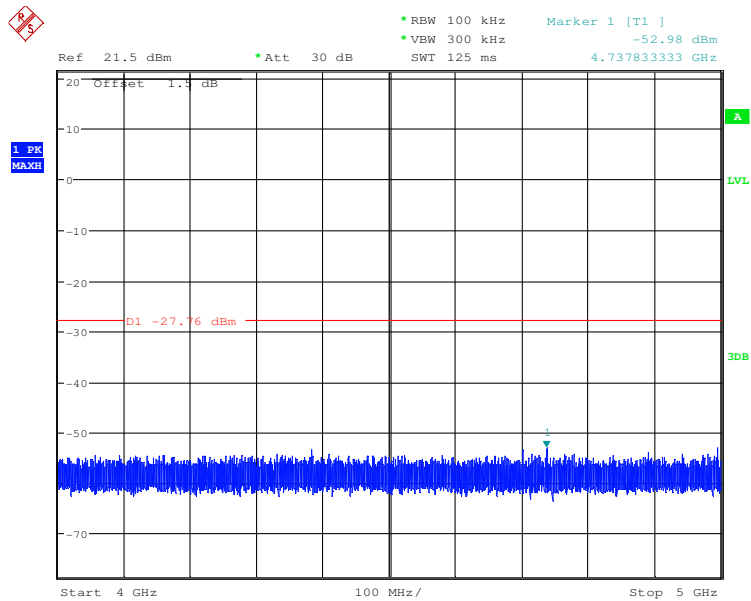
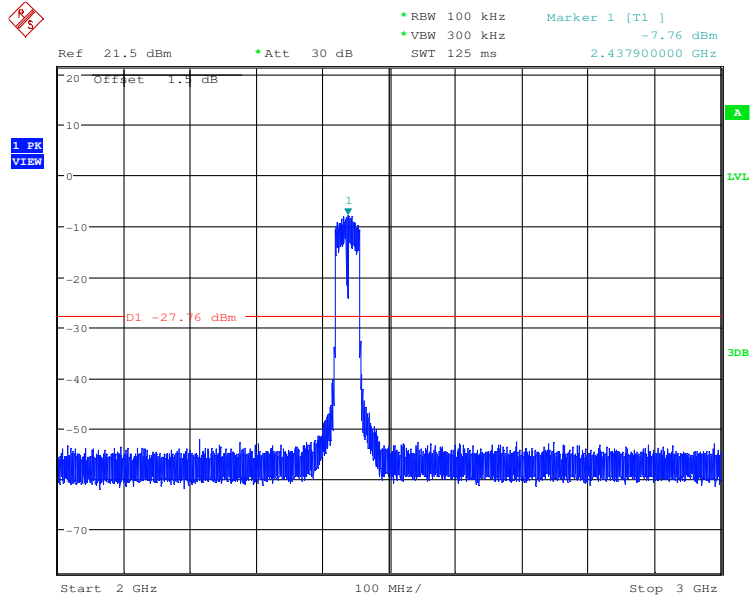
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Test mode:	802.11n(HT40)	Test channel:	Middle
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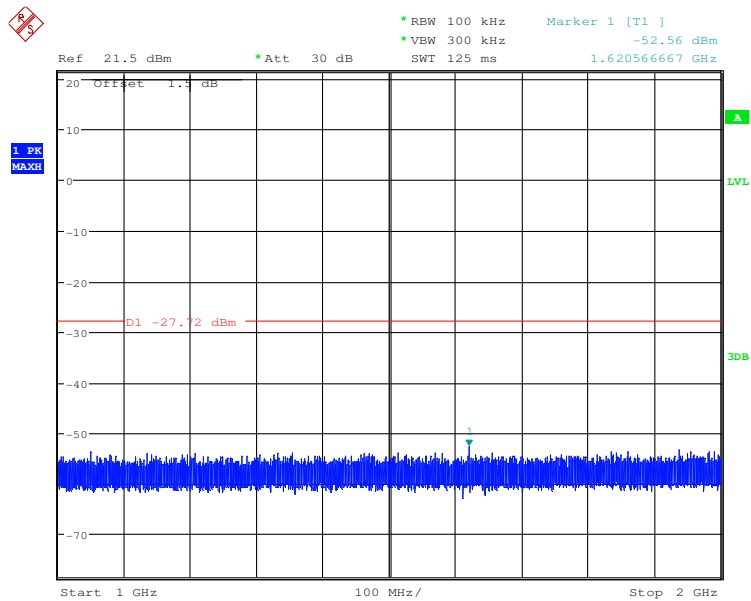
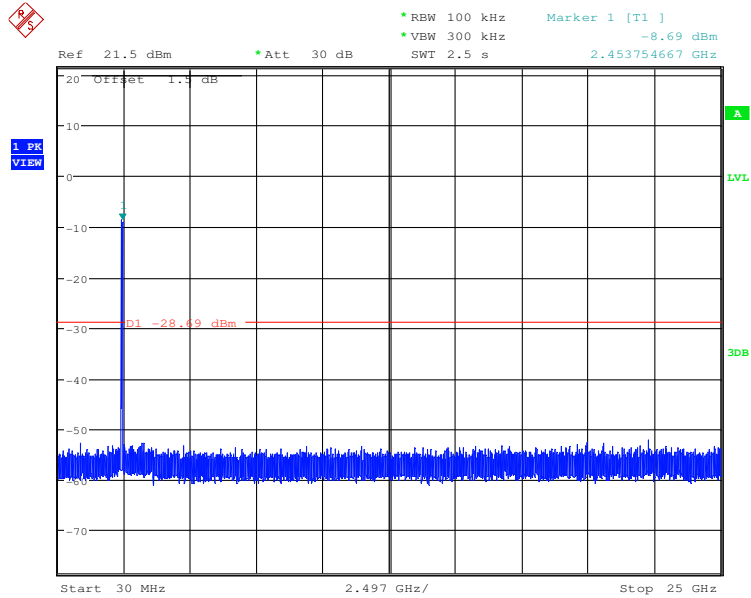


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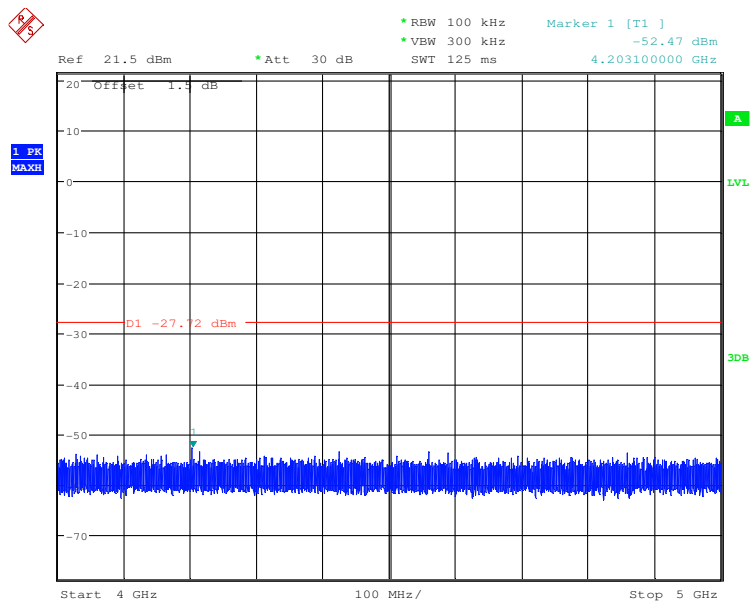
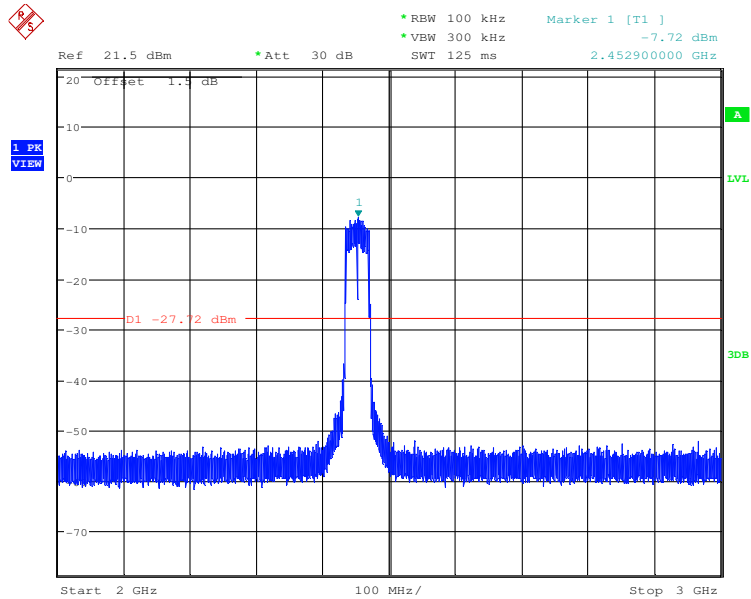
Report No.: SZEM141000589202

Page: 88 of 165

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

Pretest 9kHz to 25GHz, find the highest point when testing, so only the worst data were shown in the test report. Per FCC Part 15.33 (a) and 15.31 (o) ,The amplitude of spurious emissions from intentional radiators which are attenuated more than 20 dB below the permissible value need not be reported unless specifically required elsewhere in this part.

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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 2009				
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
<p>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.</p>					

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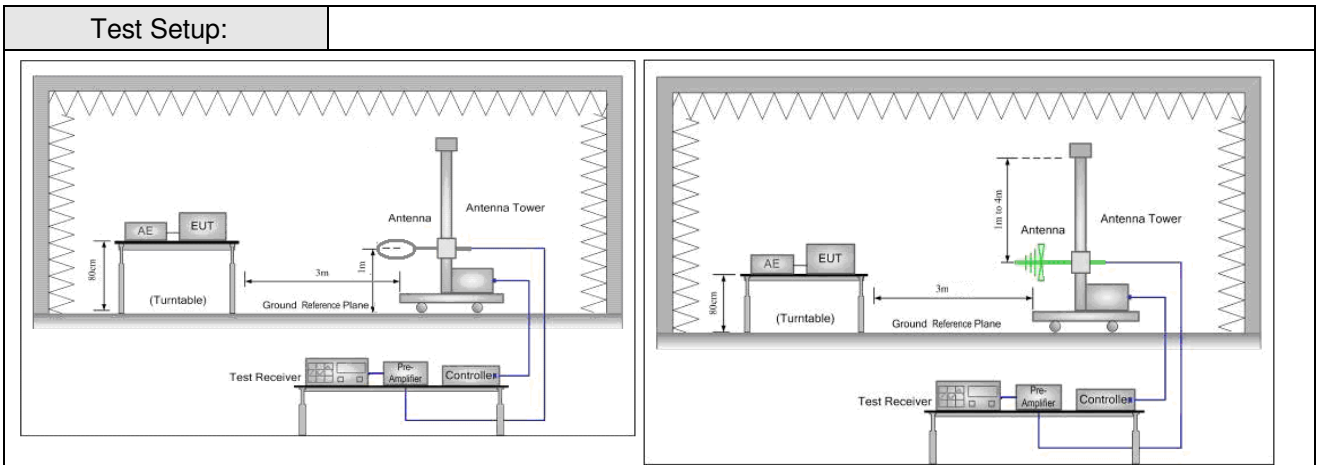


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

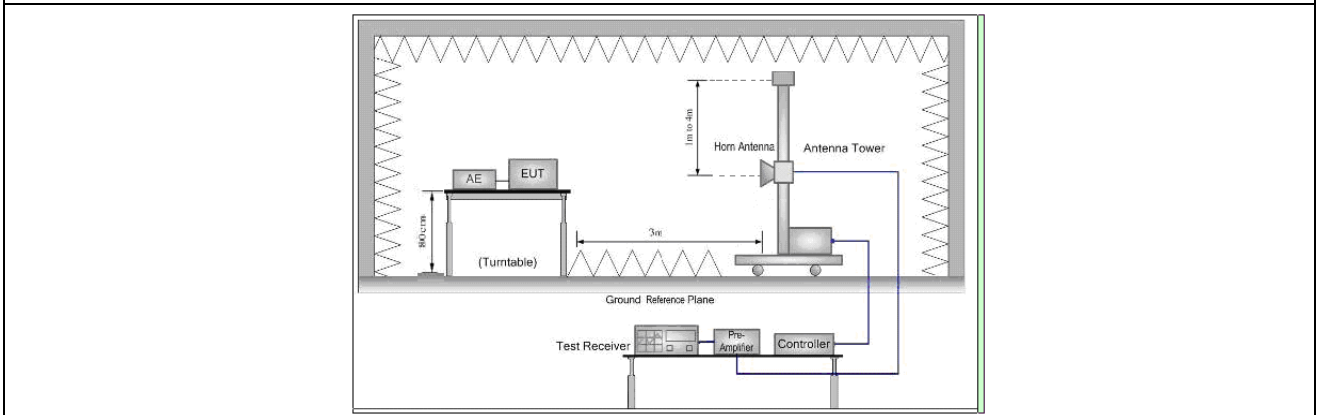


Figure 3. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> a. 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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
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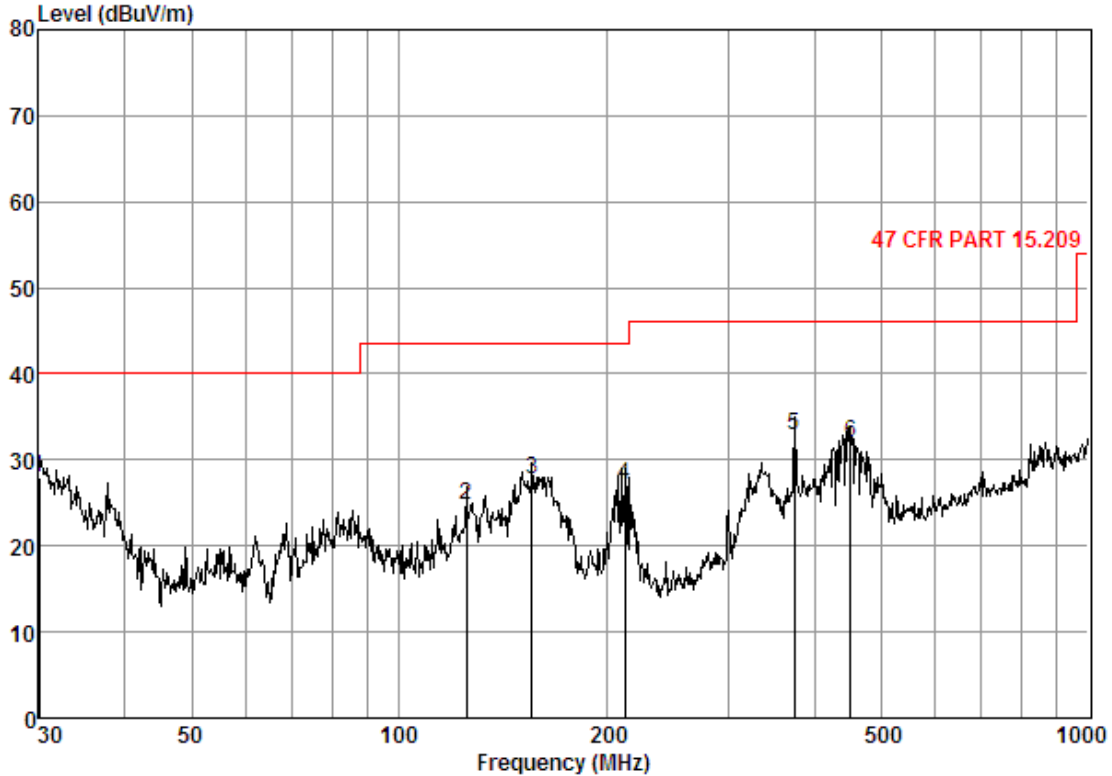


	method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel ,the middle channel ,the Highest channel h. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates. Transmitting mode
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) 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)			
S24B12-120A200-Y4:			
Test mode:	Transmitting	Vertical	Low channel



Condition: 47 CFR PART 15.209 3m 3142C VERTICAL

Job No. : 5892CR

Mode : 2412 TX mode

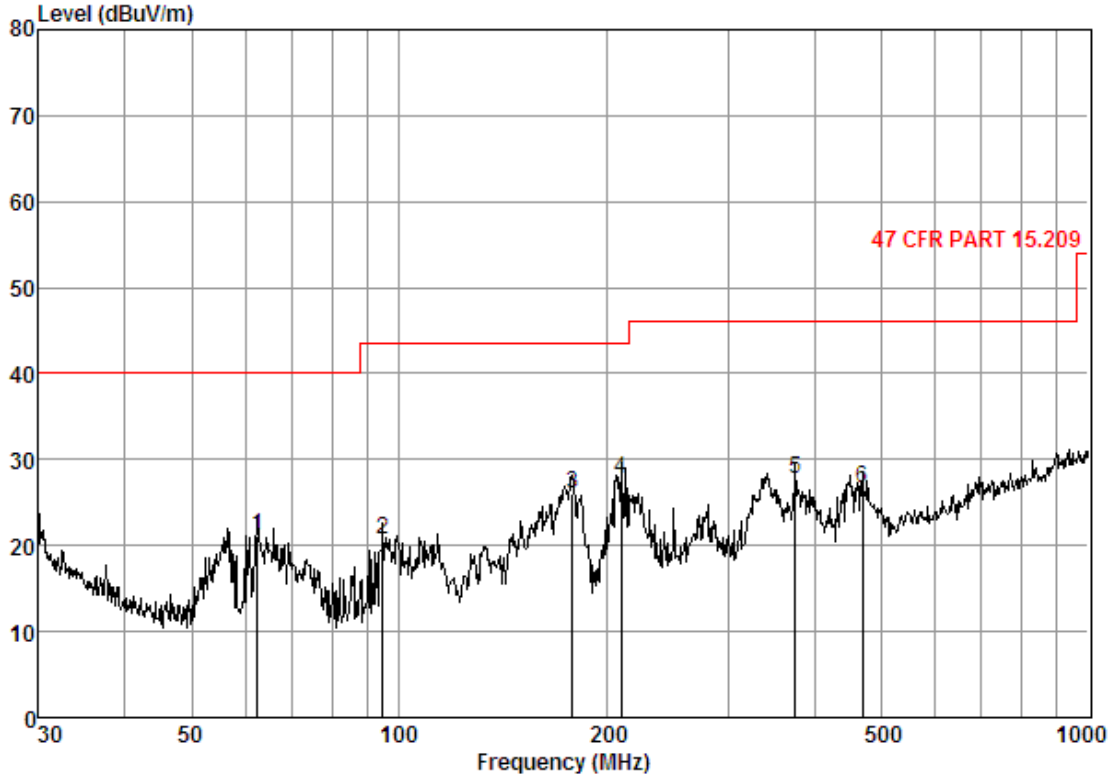
: S24B12-120A200-Y4

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	30.00	0.64	18.70	25.58	34.17	27.93	40.00 -12.07
2	125.01	1.61	8.00	25.62	40.81	24.80	43.50 -18.70
3	155.91	1.91	9.54	25.40	41.58	27.63	43.50 -15.87
4	212.27	2.23	10.79	24.65	38.70	27.07	43.50 -16.43
5	374.62	3.13	15.89	25.42	39.35	32.95	46.00 -13.05
6	451.14	3.55	16.94	25.97	37.39	31.91	46.00 -14.09

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Test mode:	Transmitting	Horizontal	Low channel
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Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL

Job No. : 5892CR

Mode : 2412 TX mode

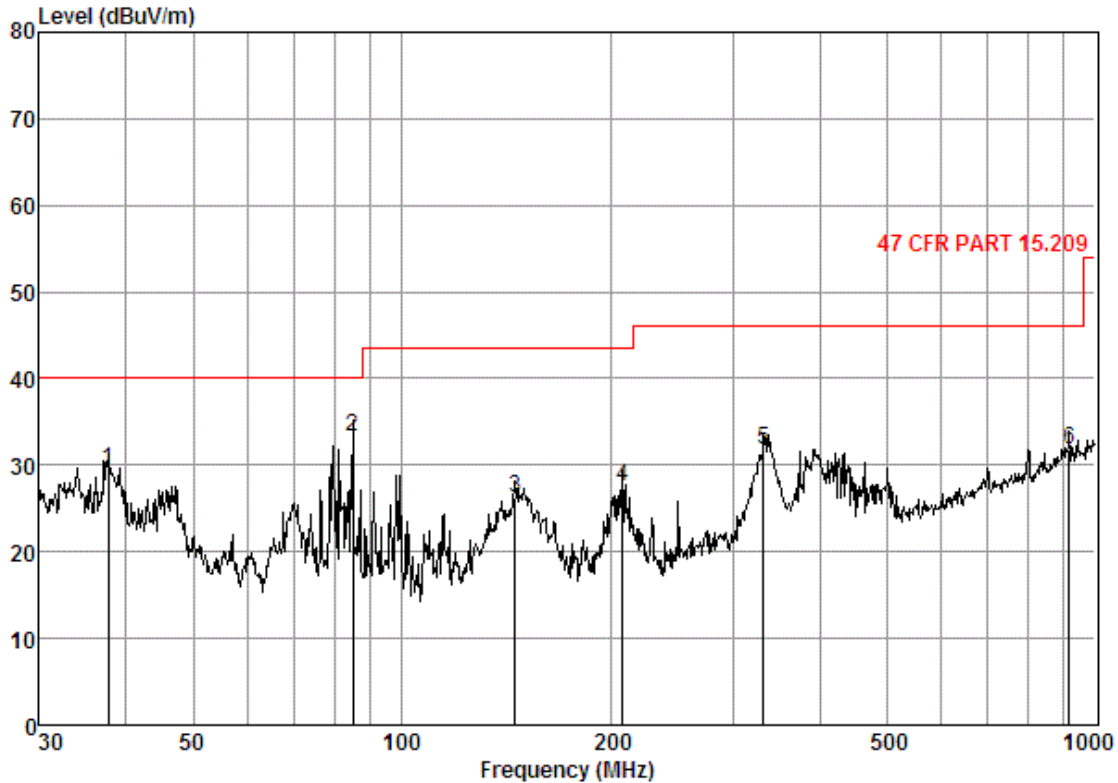
: S24B12-120A200-Y4

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
		dB	dB/m	dB	dBuV	dBuV/m	dB
1	62.21	1.09	7.13	25.45	38.40	21.17	40.00 -18.83
2	94.76	1.41	8.94	25.31	35.67	20.71	43.50 -22.79
3	178.13	2.02	9.83	25.03	39.25	26.07	43.50 -17.43
4	210.05	2.22	10.68	24.90	39.63	27.63	43.50 -15.87
5	375.94	3.14	15.92	25.58	34.17	27.65	46.00 -18.35
6	470.52	3.64	17.56	26.01	31.43	26.62	46.00 -19.38

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Test mode:	Transmitting	Vertical	Middle channel
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Condition: 47 CFR PART 15.209 3m 3142C VERTICAL

Job No. : 5892CR

Mode : 2437 TX mode

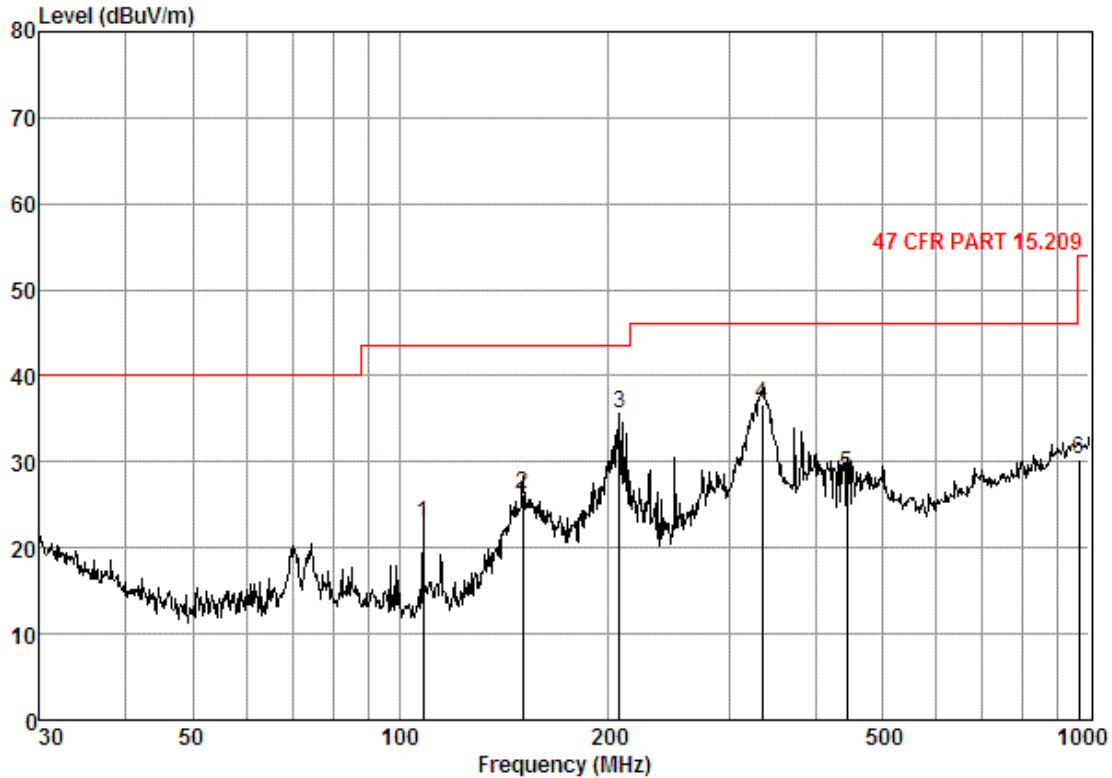
: S24B12-120A200-Y4

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	37.68	0.73	14.40	25.67	39.94	29.40	40.00	-10.60
2	85.00	1.32	8.30	25.47	49.05	33.20	40.00	-6.80
3	145.35	1.80	8.88	24.97	40.49	26.20	43.50	-17.30
4	207.85	2.20	10.58	25.28	40.00	27.50	43.50	-16.00
5	332.52	2.94	15.01	24.67	38.50	31.78	46.00	-14.22
6	916.07	5.53	23.33	26.17	29.12	31.81	46.00	-14.19

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Test mode:	Transmitting	Horizontal	Middle channel
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Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL

Job No. : 5892CR

Mode : 2437 TX mode

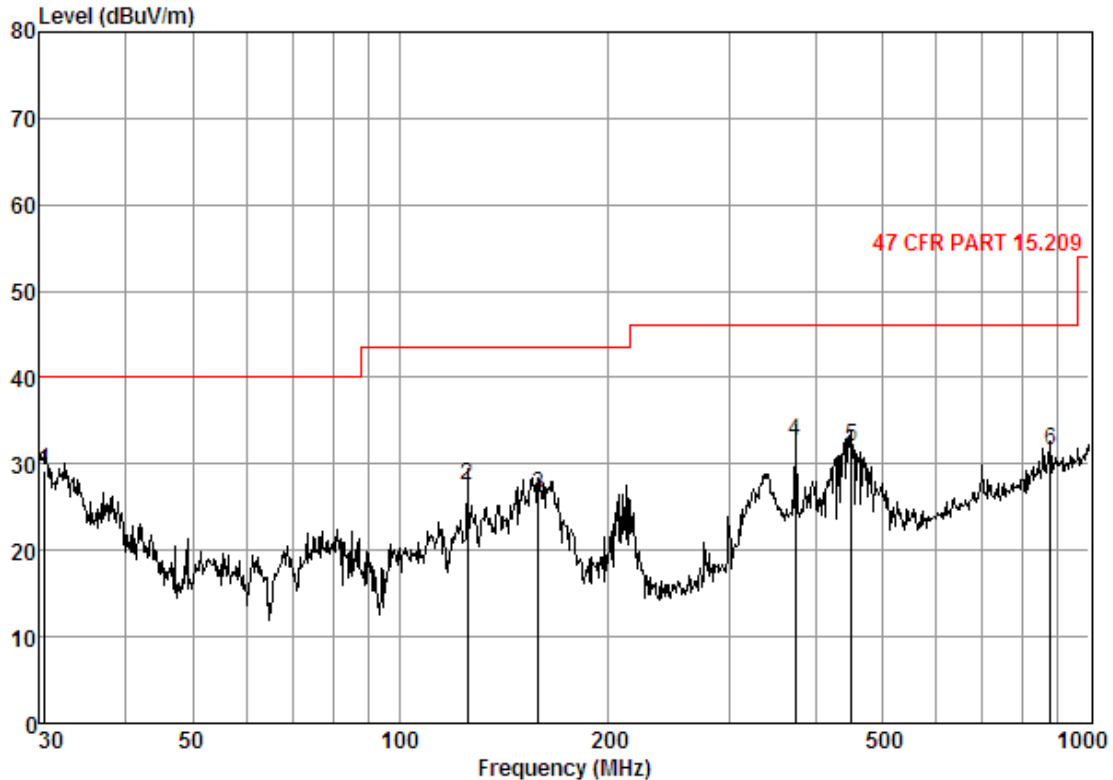
: S24B12-120A200-Y4

	Freq	Cable	Antenna	Preamp	Read	Limit	Over
	MHz	Loss	Factor	Factor	Level	Line	Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	107.89	1.44	8.78	26.14	38.73	22.81	43.50 -20.69
2	150.54	1.81	9.32	25.00	40.18	26.31	43.50 -17.19
3	207.85	2.20	10.58	25.28	48.05	35.55	43.50 -7.95
4	334.86	2.94	15.08	24.51	43.09	36.60	46.00 -9.40
5	444.85	3.47	16.78	25.73	34.00	28.52	46.00 -17.48
6	965.54	5.47	23.51	25.83	27.15	30.30	54.00 -23.70

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Test mode:	Transmitting	Vertical	High channel
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Condition: 47 CFR PART 15.209 3m 3142C VERTICAL

Job No. : 5892CR

Mode : 2462 TX mode

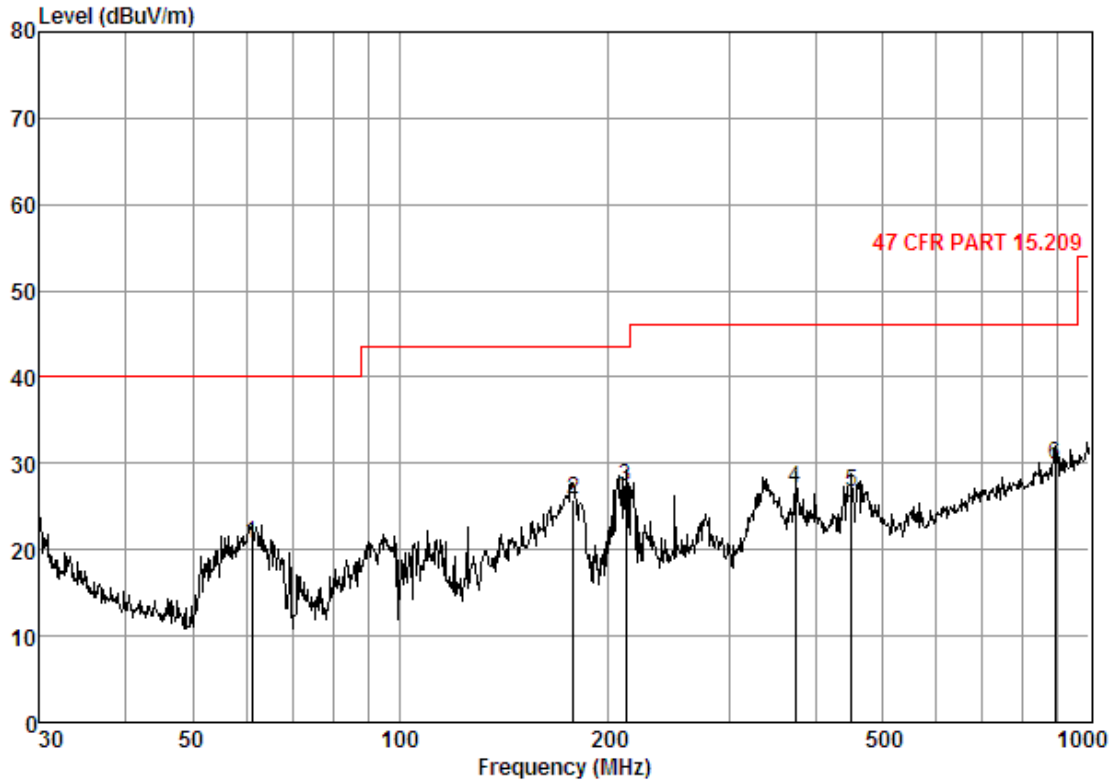
: S24B12-120A200-Y4

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.53	0.65	18.40	25.63	35.90	29.32	40.00	-10.68
2	125.01	1.61	8.00	25.62	43.44	27.43	43.50	-16.07
3	158.67	1.93	9.65	25.54	40.34	26.38	43.50	-17.12
4	374.62	3.13	15.89	25.42	38.95	32.55	46.00	-13.45
5	451.14	3.55	16.94	25.97	37.44	31.96	46.00	-14.04
6	878.32	5.13	22.85	25.80	29.44	31.62	46.00	-14.38

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Test mode:	Transmitting	Horizontal	High channel
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Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL
 Job No. : 5892CR
 Mode : 2462 TX mode
 : S24B12-120A200-Y4

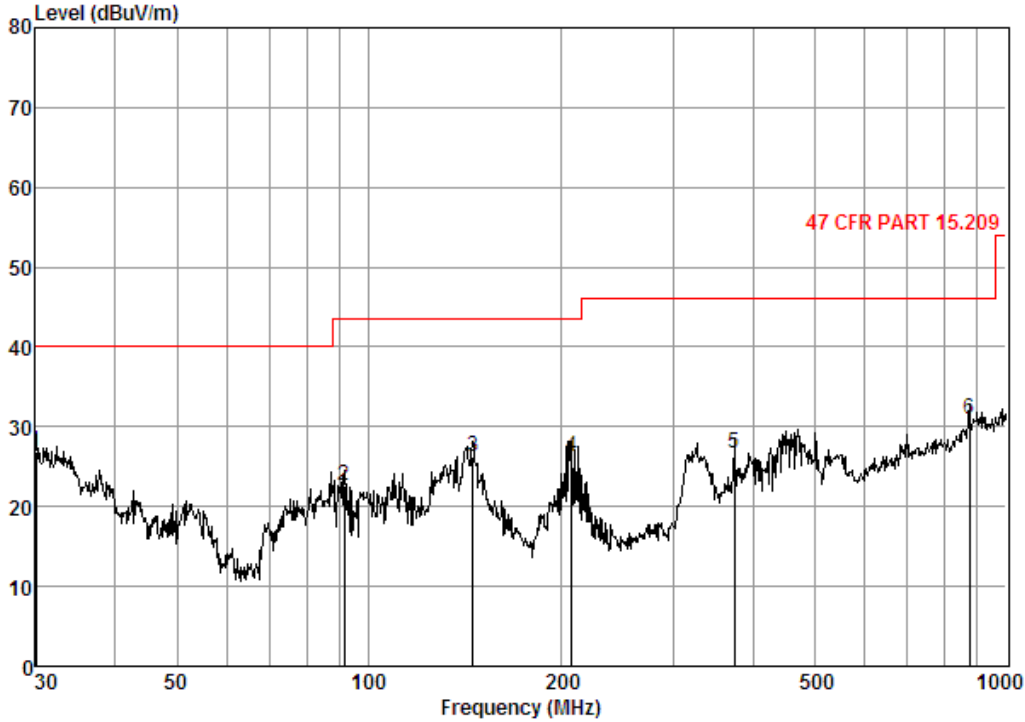
	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Level	Limit	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	60.92	1.08	7.17	25.55	38.04	20.74	40.00	-19.26
2	178.13	2.02	9.83	25.03	38.90	25.72	43.50	-17.78
3	212.27	2.23	10.79	24.65	38.92	27.29	43.50	-16.21
4	374.62	3.13	15.89	25.42	33.43	27.03	46.00	-18.97
5	451.14	3.55	16.94	25.97	32.22	26.74	46.00	-19.26
6	890.73	5.30	23.05	25.30	26.86	29.91	46.00	-16.09

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WHF-1200300T3:

Test mode:	Transmitting	Vertical	Low channel
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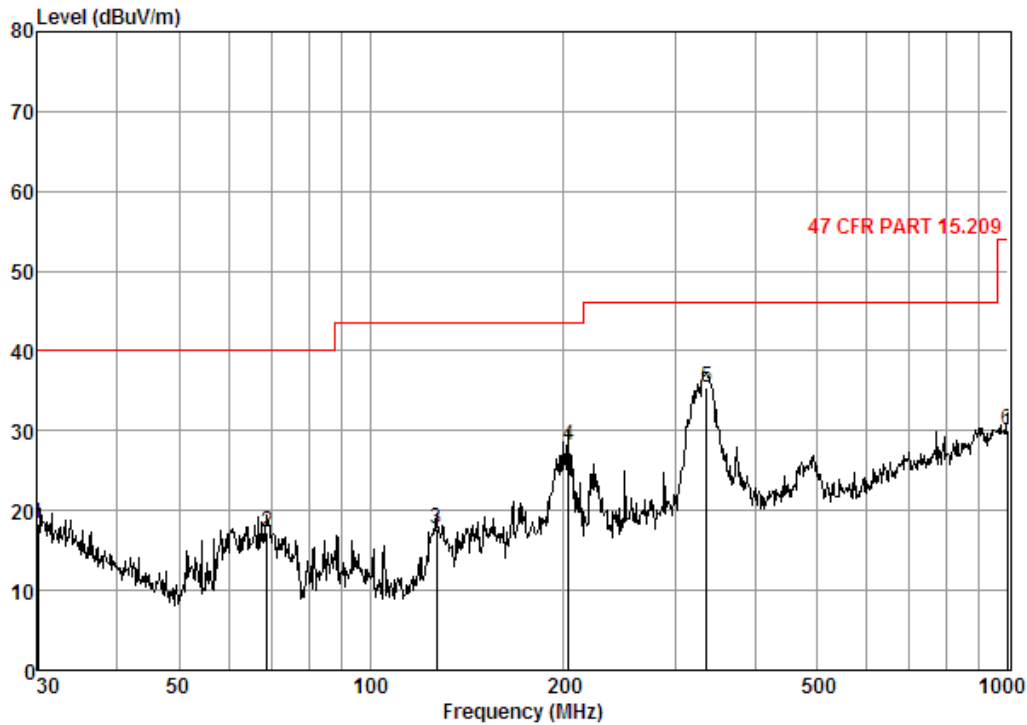
Condition: 47 CFR PART 15.209 3m 3142C VERTICAL
 Job No. : 5892CR
 Mode : 2412 TX mode
 : WHF-1200300T3

	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.64	18.70	25.58	33.21	26.97	40.00	-13.03
2	91.49	1.37	8.84	25.52	37.83	22.52	43.50	-20.98
3	145.35	1.80	8.88	24.97	40.43	26.14	43.50	-17.36
4	207.85	2.20	10.58	25.28	38.67	26.17	43.50	-17.33
5	374.62	3.13	15.89	25.42	33.03	26.63	46.00	-19.37
6	875.25	5.16	22.80	25.80	28.77	30.93	46.00	-15.07

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Test mode:	Transmitting	Horizontal	Low channel
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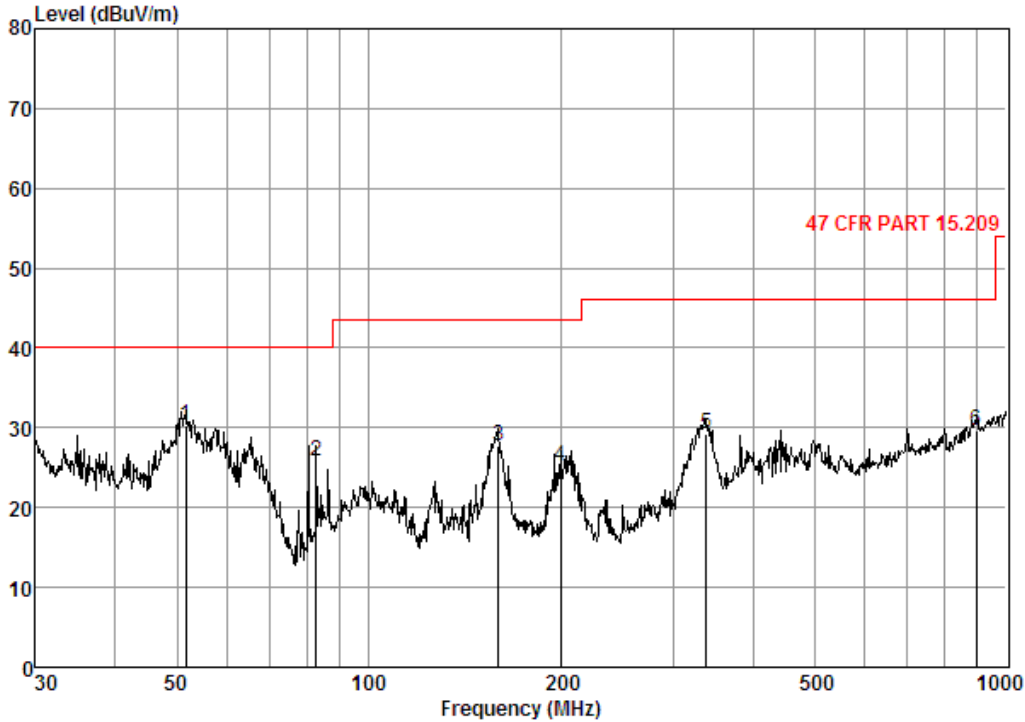
Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL
 Job No. : 5892CR
 Mode : 2412 TX mode
 : WHF-1200300T3

	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	30.00	0.64	18.70	25.58	24.57	18.33	40.00 -21.67
2	68.63	1.15	6.94	25.51	34.75	17.33	40.00 -22.67
3	126.77	1.64	7.96	24.88	32.96	17.68	43.50 -25.82
4	204.24	2.22	10.40	24.75	40.29	28.16	43.50 -15.34
5	336.04	2.95	15.11	24.45	41.73	35.34	46.00 -10.66
6	996.50	5.77	24.04	25.83	26.15	30.13	54.00 -23.87

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Test mode:	Transmitting	Vertical	Middle channel
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Condition: 47 CFR PART 15.209 3m 3142C VERTICAL
 Job No. : 5892CR
 Mode : 2437 TX mode
 : WHF-1200300T3

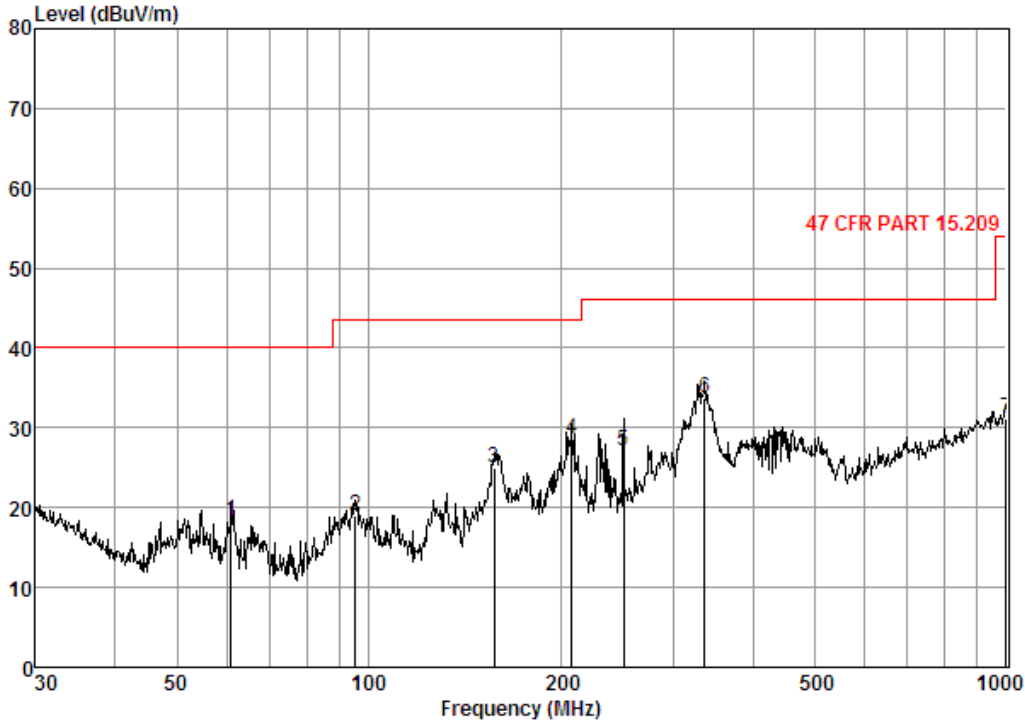
	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	51.66	0.95	8.45	25.70	46.50	30.20	-9.80
2	82.65	1.29	8.06	25.38	41.78	25.75	-14.25
3	159.78	1.93	9.69	25.60	41.77	27.79	-15.71
4	199.99	2.17	10.20	24.95	37.68	25.10	-18.40
5	338.40	2.97	15.18	24.50	35.51	29.16	-16.84
6	897.00	5.29	23.15	25.27	26.40	29.57	-16.43



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Test mode:	Transmitting	Horizontal	Middle channel
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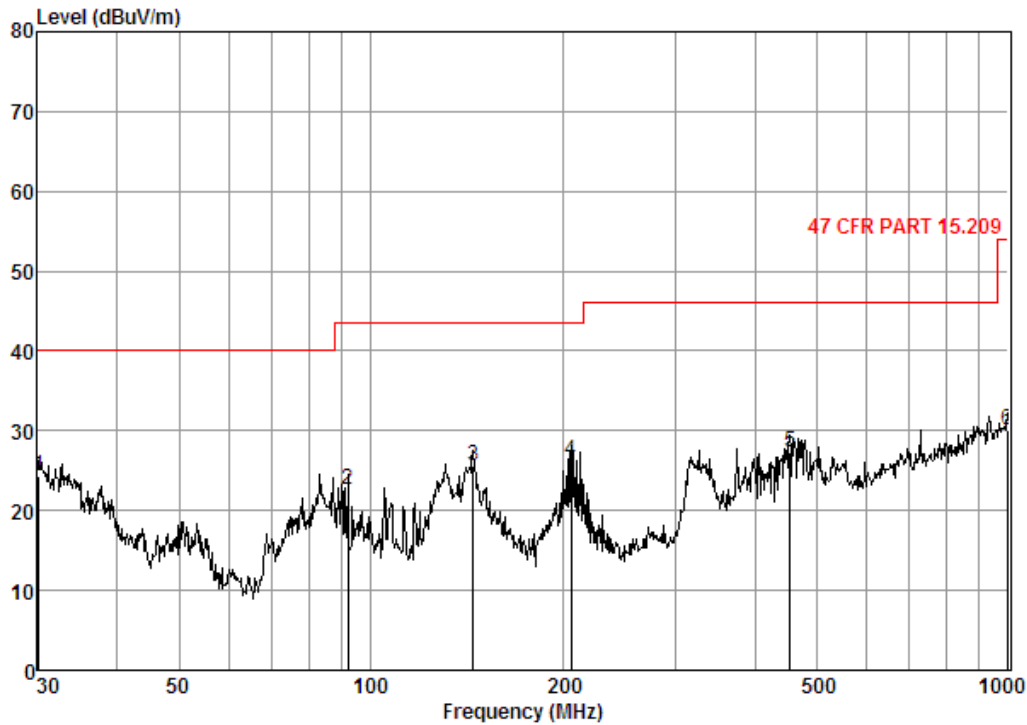
Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL
Job No. : 5892CR
Mode : 2437 TX mode
: WHF-1200300T3

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	60.70	1.08	7.18	25.55	35.74	18.45	40.00	-21.55
2	95.09	1.41	8.95	25.31	33.93	18.98	43.50	-24.52
3	157.01	1.92	9.58	25.42	38.78	24.86	43.50	-18.64
4	207.85	2.20	10.58	25.28	41.03	28.53	43.50	-14.97
5	251.18	2.50	12.22	24.82	37.18	27.08	46.00	-18.92
6	336.04	2.95	15.11	24.45	40.16	33.77	46.00	-12.23
7	1000.00	5.69	24.10	26.11	27.49	31.17	54.00	-22.83

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Test mode:	Transmitting	Vertical	High channel
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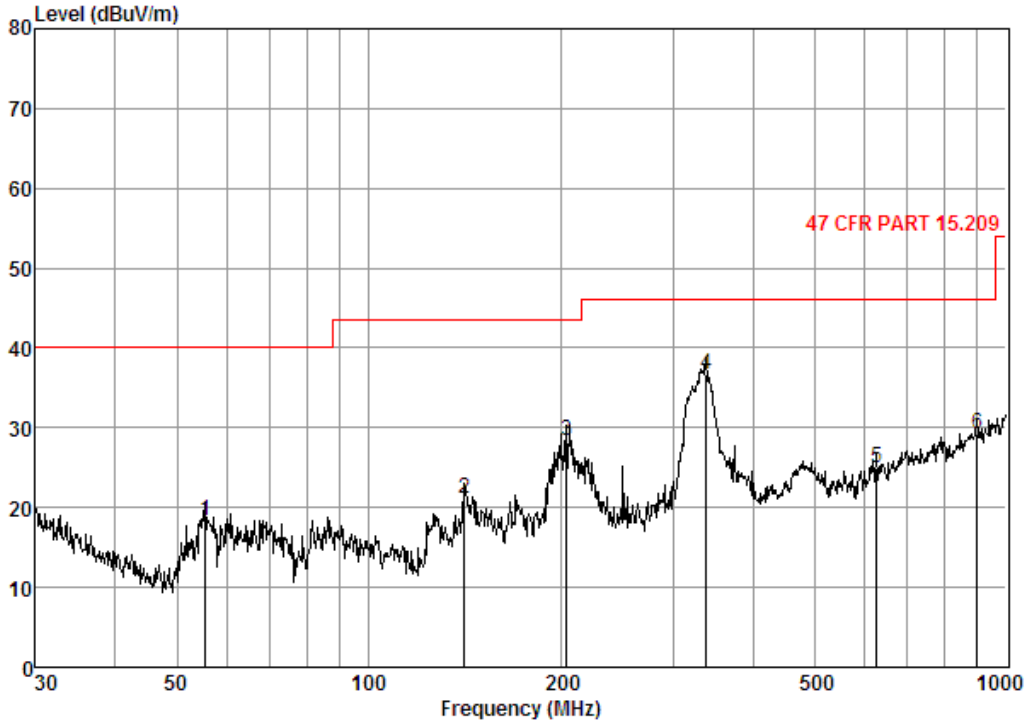
Condition: 47 CFR PART 15.209 3m 3142C VERTICAL
 Job No. : 5892CR
 Mode : 2462 TX mode
 : WHF-1200300T3

	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	30.11	0.64	18.64	25.58	30.63	24.33	40.00 -15.67
2	92.14	1.38	8.86	25.52	37.90	22.62	43.50 -20.88
3	144.84	1.80	8.84	25.01	39.95	25.58	43.50 -17.92
4	206.40	2.19	10.51	25.10	38.55	26.15	43.50 -17.35
5	454.31	3.54	17.04	26.27	33.07	27.38	46.00 -18.62
6	996.50	5.77	24.04	25.83	26.17	30.15	54.00 -23.85

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Test mode:	Transmitting	Horizontal	High channel
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Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL
 Job No. : 5892CR
 Mode : 2462 TX mode
 : WHF-1200300T3

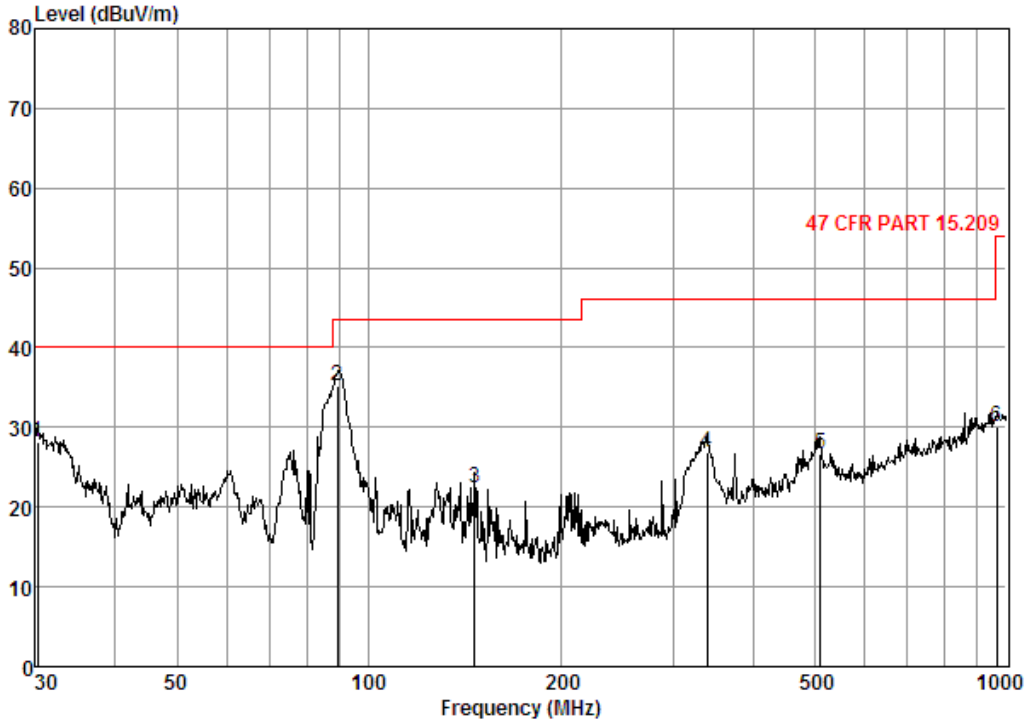
	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m
1	55.41	0.99	7.89	25.75	35.25	18.38	40.00
2	141.33	1.80	8.52	25.20	35.96	21.08	43.50
3	204.24	2.22	10.40	24.75	40.53	28.40	43.50
4	338.40	2.97	15.18	24.50	43.12	36.77	46.00
5	625.08	4.31	20.30	26.77	27.12	24.96	46.00
6	900.15	5.30	23.20	25.44	26.07	29.13	46.00

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SW36-12003000-W:

Test mode:	Transmitting	Vertical	Low channel
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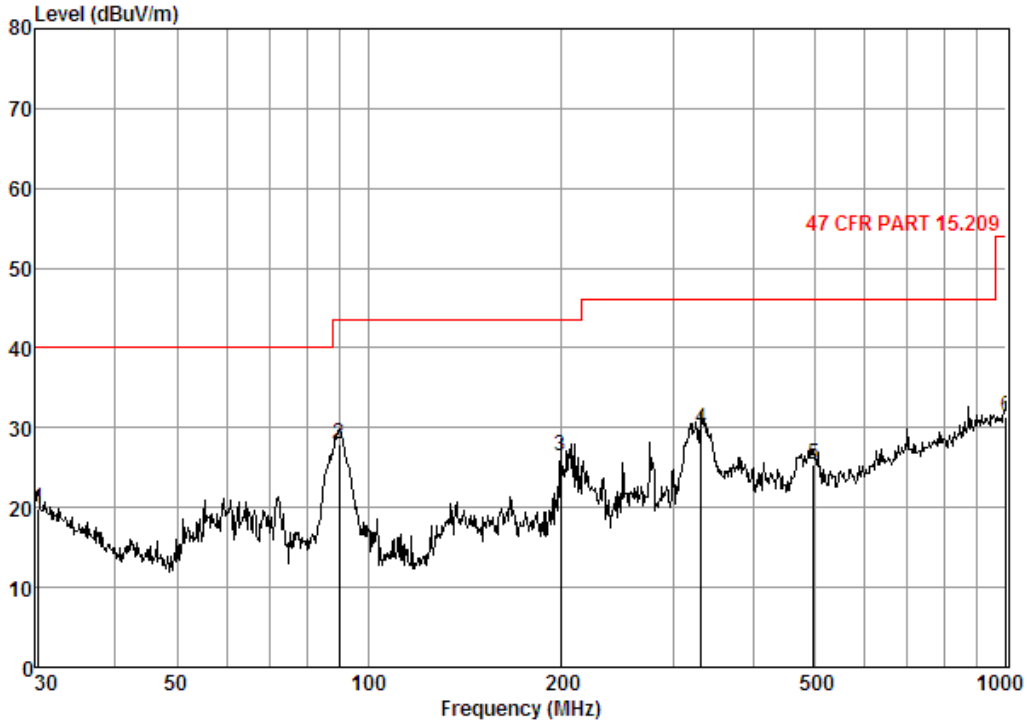
Condition: 47 CFR PART 15.209 3m 3142C VERTICAL
 Job No. : 5892CR
 Mode : 2412 TX mode
 : SW36-12003000-W

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.21	0.64	18.58	25.58	34.56	28.20	40.00	-11.80
2	89.28	1.34	8.73	25.36	50.48	35.19	43.50	-8.31
3	146.37	1.80	8.97	24.95	36.51	22.33	43.50	-21.17
4	339.59	2.96	15.21	24.63	33.41	26.95	46.00	-19.05
5	510.04	3.76	17.92	26.46	31.54	26.76	46.00	-19.24
6	965.54	5.47	23.51	25.83	26.85	30.00	54.00	-24.00

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Test mode:	Transmitting	Horizontal	Low channel
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Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL

Job No. : 5892CR

Mode : 2412 TX mode

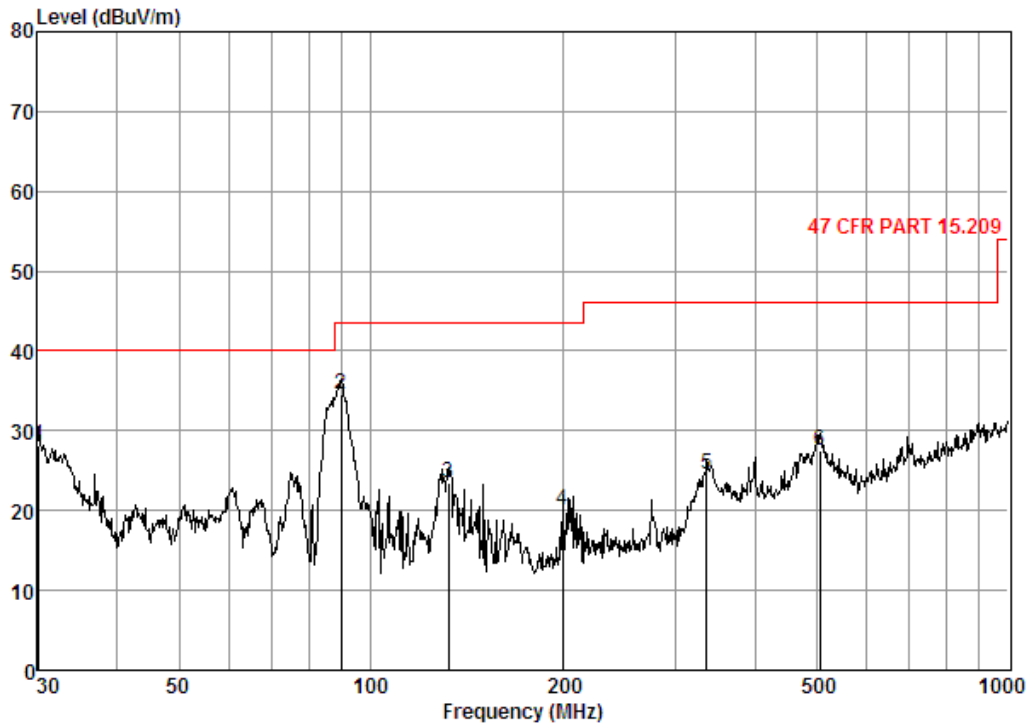
: SW36-12003000-W

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.32	0.64	18.52	25.58	26.36	19.94	40.00	-20.06
2	89.90	1.35	8.79	24.91	42.62	27.85	43.50	-15.65
3	199.99	2.17	10.20	24.95	39.08	26.50	43.50	-17.00
4	332.52	2.94	15.01	24.67	36.62	29.90	46.00	-16.10
5	497.68	3.70	17.61	26.19	30.23	25.35	46.00	-20.65
6	1000.00	5.69	24.10	26.11	27.58	31.26	54.00	-22.74

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Test mode:	Transmitting	Vertical	Middle channel
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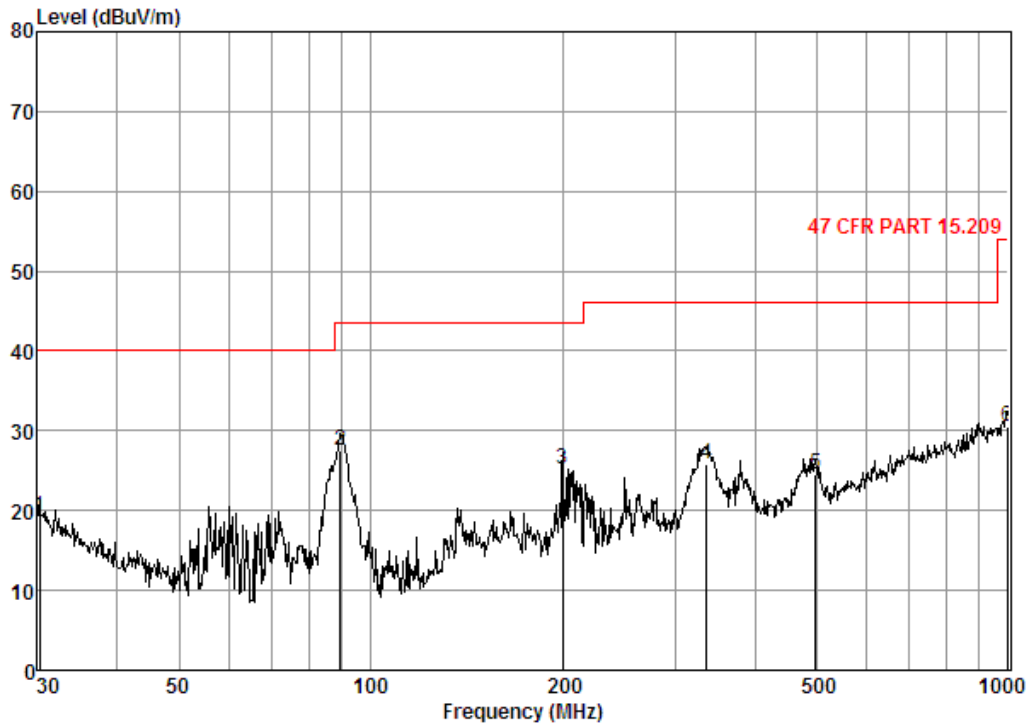
Condition: 47 CFR PART 15.209 3m 3142C VERTICAL
 Job No. : 5892CR
 Mode : 2437 TX mode
 : SW36-12003000-W

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.11	0.64	18.64	25.58	34.56	28.26	40.00	-11.74
2	89.90	1.35	8.79	24.91	49.24	34.47	43.50	-9.03
3	132.22	1.69	8.01	25.37	39.05	23.38	43.50	-20.12
4	199.99	2.17	10.20	24.95	32.64	20.06	43.50	-23.44
5	336.04	2.95	15.11	24.45	30.92	24.53	46.00	-21.47
6	506.48	3.74	17.81	26.05	32.11	27.61	46.00	-18.39

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Test mode:	Transmitting	Horizontal	Middle channel
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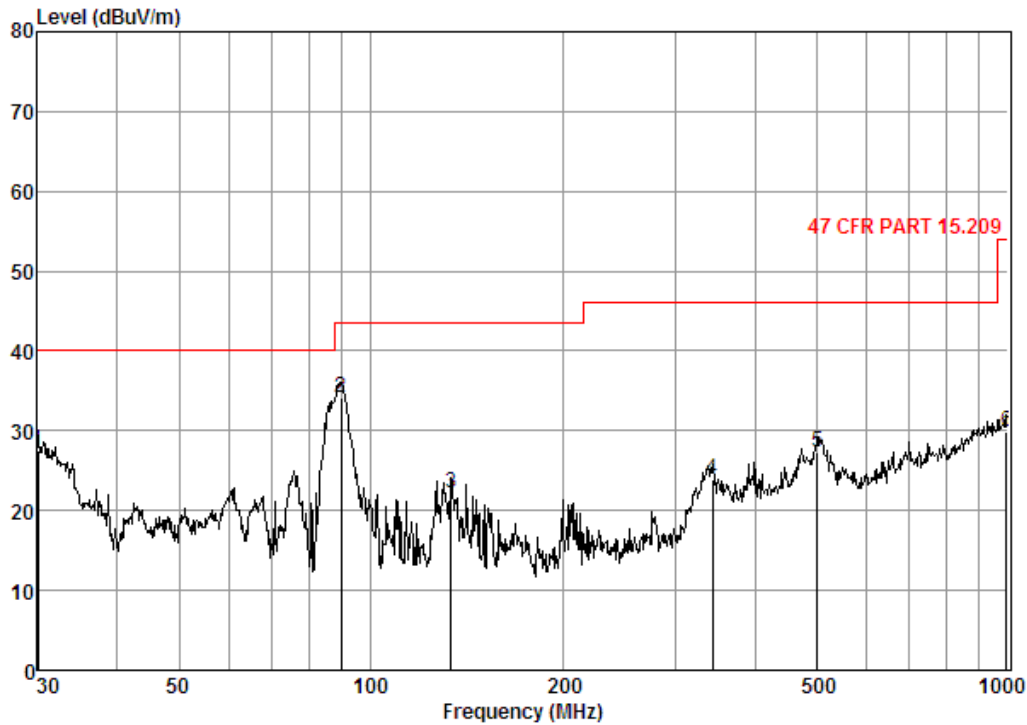
Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL
 Job No. : 5892CR
 Mode : 2437 TX mode
 : SW36-12003000-W

	Freq	Cable Loss	Antenna Factor	Preamplifier	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	30.21	0.64	18.58	25.58	25.63	19.27	40.00 -20.73
2	89.59	1.34	8.76	25.36	42.83	27.57	43.50 -15.93
3	199.99	2.17	10.20	24.95	37.85	25.27	43.50 -18.23
4	336.04	2.95	15.11	24.45	32.31	25.92	46.00 -20.08
5	497.68	3.70	17.61	26.19	29.40	24.52	46.00 -21.48
6	996.50	5.77	24.04	25.83	26.49	30.47	54.00 -23.53

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Test mode:	Transmitting	Vertical	High channel
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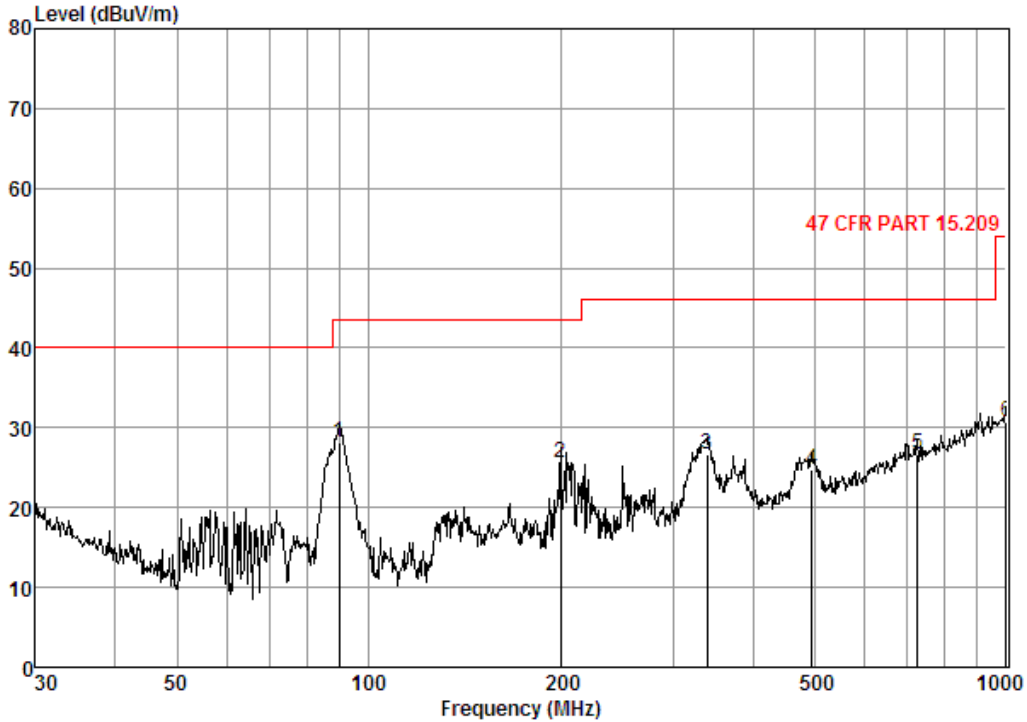
Condition: 47 CFR PART 15.209 3m 3142C VERTICAL
 Job No. : 5892CR
 Mode : 2462 TX mode
 : SW36-12003000-W

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.00	0.64	18.70	25.58	33.71	27.47	40.00	-12.53
2	89.90	1.35	8.79	24.91	48.86	34.09	43.50	-9.41
3	133.62	1.72	8.08	25.20	37.51	22.11	43.50	-21.39
4	343.18	2.99	15.31	24.86	30.36	23.80	46.00	-22.20
5	501.18	3.76	17.64	26.23	32.14	27.31	46.00	-18.69
6	993.01	5.77	23.99	25.61	25.76	29.91	54.00	-24.09

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Test mode:	Transmitting	Horizontal	High channel
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Condition: 47 CFR PART 15.209 3m 3142C HORIZONTAL
 Job No. : 5892CR
 Mode : 2462 TX mode
 : SW36-12003000-W

	Freq	Cable Loss	Antenna Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	89.90	1.35	8.79	24.91	43.01	28.24	43.50 -15.26
2	199.99	2.17	10.20	24.95	38.11	25.53	43.50 -17.97
3	339.59	2.96	15.21	24.63	33.23	26.77	46.00 -19.23
4	495.93	3.64	17.62	26.33	29.88	24.81	46.00 -21.19
5	724.26	4.61	21.60	26.42	26.81	26.60	46.00 -19.40
6	1000.00	5.69	24.10	26.11	27.00	30.68	54.00 -23.32

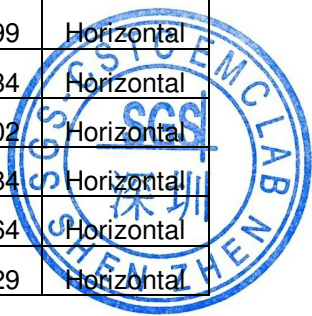
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6.8.2 Transmitter emission above 1GHz

S24B12-120A200-Y4:

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		
3765.116	6.82	33.12	38.86	46.89	47.97	74	-26.03	Vertical		
4824.000	6.46	34.72	39.24	48.53	50.47	74	-23.53	Vertical		
5999.562	8.08	36.30	39.18	47.75	52.95	74	-21.05	Vertical		
7236.000	8.96	35.60	39.06	47.72	53.22	74	-20.78	Vertical		
9648.000	9.97	37.45	37.91	42.37	51.88	74	-22.12	Vertical		
11622.330	10.44	38.32	38.52	43.53	53.77	74	-20.23	Vertical		
3631.354	6.89	33.02	38.80	48.58	49.69	74	-24.31	Horizontal		
4824.000	6.46	34.72	39.24	48.85	50.79	74	-23.21	Horizontal		
5939.103	7.99	36.18	39.19	47.34	52.32	74	-21.68	Horizontal		
7236.000	8.96	35.60	39.06	46.50	52.00	74	-22.00	Horizontal		
9648.000	9.97	37.45	37.91	42.10	51.61	74	-22.39	Horizontal		
11757.650	10.50	38.46	38.59	42.28	52.65	74	-21.35	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	6.84	33.09	38.84	48.81	49.90	74	-24.10	Vertical		
4874.000	6.59	34.78	39.26	50.08	52.19	74	-21.81	Vertical		
5999.562	8.08	36.30	39.18	48.32	53.52	74	-20.48	Vertical		
7311.000	9.08	35.50	39.06	47.72	53.24	74	-20.76	Vertical		
9748.000	9.90	37.82	37.84	42.88	52.76	74	-21.24	Vertical		
11672.890	10.47	38.37	38.55	43.07	53.36	74	-20.64	Vertical		
3732.570	6.84	33.10	38.84	46.91	48.01	74	-25.99	Horizontal		
4874.000	6.59	34.78	39.26	48.55	50.66	74	-23.34	Horizontal		
6034.386	8.07	36.26	39.18	47.83	52.98	74	-21.02	Horizontal		
7311.000	9.08	35.50	39.06	46.64	52.16	74	-21.84	Horizontal		
9748.000	9.90	37.82	37.84	41.48	51.36	74	-22.64	Horizontal		
11521.870	10.40	38.24	38.48	42.55	52.71	74	-21.29	Horizontal		



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Report No.: SZEM141000589202

Page: 112 of 165

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		
3743.387	6.83	33.11	38.85	48.15	49.24	74	-24.76	Vertical		
4924.000	6.72	34.84	39.28	49.00	51.28	74	-22.72	Vertical		
5982.226	8.05	36.27	39.19	47.37	52.50	74	-21.50	Vertical		
7386.000	9.20	35.42	39.05	47.39	52.96	74	-21.04	Vertical		
9848.000	9.83	38.18	37.77	41.75	51.99	74	-22.01	Vertical		
11488.580	10.39	38.22	38.46	43.23	53.38	74	-20.62	Vertical		
3641.878	6.89	33.03	38.80	48.15	49.27	74	-24.73	Horizontal		
4924.000	6.72	34.84	39.28	50.16	52.44	74	-21.56	Horizontal		
5982.226	8.05	36.27	39.19	48.37	53.50	74	-20.50	Horizontal		
7386.000	9.20	35.42	39.05	46.77	52.34	74	-21.66	Horizontal		
9848.000	9.83	38.18	37.77	42.19	52.43	74	-21.57	Horizontal		
11422.280	10.37	38.17	38.43	43.58	53.69	74	-20.31	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		
3548.251	6.94	32.94	38.76	47.82	48.94	74	-25.06	Vertical		
4824.000	6.46	34.72	39.24	48.87	50.81	74	-23.19	Vertical		
5999.562	8.08	36.30	39.18	48.13	53.33	74	-20.67	Vertical		
7236.000	8.96	35.60	39.06	44.69	50.19	74	-23.81	Vertical		
9648.000	9.97	37.45	37.91	42.82	52.33	74	-21.67	Vertical		
11488.580	10.39	38.22	38.46	43.00	53.15	74	-20.85	Vertical		
3652.432	6.88	33.04	38.81	48.01	49.12	74	-24.88	Horizontal		
4824.000	6.46	34.72	39.24	49.65	51.59	74	-22.41	Horizontal		
5982.226	8.05	36.27	39.19	48.42	53.55	74	-20.45	Horizontal		
7236.000	8.96	35.60	39.06	47.70	53.20	74	-20.80	Horizontal		
9648.000	9.97	37.45	37.91	42.71	52.22	74	-21.78	Horizontal		
11389.270	10.37	38.15	38.41	43.36	53.47	74	-20.53	Horizontal		

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Report No.: SZEM141000589202

Page: 113 of 165

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		
3652.432	6.88	33.04	38.81	47.71	48.82	74	-25.18	Vertical		
4874.000	6.57	34.77	39.26	48.43	50.51	74	-23.49	Vertical		
6069.413	8.06	36.22	39.18	46.93	52.03	74	-21.97	Vertical		
7311.000	9.06	35.52	39.06	47.70	53.22	74	-20.78	Vertical		
9748.000	9.91	37.76	37.85	43.33	53.15	74	-20.85	Vertical		
11422.280	10.37	38.17	38.43	42.24	52.35	74	-21.65	Vertical		
3631.354	6.89	33.02	38.80	48.58	49.69	74	-24.31	Horizontal		
4874.000	6.57	34.77	39.26	48.75	50.83	74	-23.17	Horizontal		
6016.949	8.08	36.28	39.18	47.82	53.00	74	-21.00	Horizontal		
7311.000	9.06	35.52	39.06	47.66	53.18	74	-20.82	Horizontal		
9748.000	9.91	37.76	37.85	42.29	52.11	74	-21.89	Horizontal		
11356.360	10.36	38.14	38.40	42.97	53.07	74	-20.93	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		
3781.495	6.81	33.14	38.86	49.76	50.85	74	-23.15	Vertical		
4924.000	6.68	34.82	39.28	50.78	53.00	74	-21.00	Vertical		
5990.888	8.07	36.28	39.18	48.64	53.81	74	-20.19	Vertical		
7386.000	9.16	35.44	39.05	47.69	53.24	74	-20.76	Vertical		
9848.000	9.85	38.06	37.79	42.64	52.76	74	-21.24	Vertical		
11128.630	10.31	38.11	38.29	43.50	53.63	74	-20.37	Vertical		
3589.562	6.92	32.99	38.78	48.31	49.44	74	-24.56	Horizontal		
4924.000	6.68	34.82	39.28	48.50	50.72	74	-23.28	Horizontal		
5964.939	8.03	36.23	39.19	47.81	52.88	74	-21.12	Horizontal		
7386.000	9.16	35.44	39.05	47.21	52.76	74	-21.24	Horizontal		
9848.000	9.85	38.06	37.79	42.44	52.56	74	-21.44	Horizontal		
11656.010	10.46	38.36	38.54	43.38	53.66	74	-20.34	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 114 of 165

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		
3663.017	6.87	33.05	38.81	49.13	50.24	74	-23.76	Vertical		
4824.000	6.46	34.72	39.24	50.16	52.10	74	-21.90	Vertical		
5973.576	8.04	36.25	39.19	48.12	53.22	74	-20.78	Vertical		
7236.000	8.96	35.60	39.06	47.70	53.20	74	-20.80	Vertical		
9648.000	9.97	37.45	37.91	42.82	52.33	74	-21.67	Vertical		
11389.270	10.37	38.15	38.41	43.36	53.47	74	-20.53	Vertical		
3599.965	6.91	33.00	38.79	48.55	49.67	74	-24.33	Horizontal		
4824.000	6.46	34.72	39.24	50.50	52.44	74	-21.56	Horizontal		
5947.702	8.00	36.20	39.19	48.44	53.45	74	-20.55	Horizontal		
7236.000	8.96	35.60	39.06	48.34	53.84	74	-20.16	Horizontal		
9648.000	9.97	37.45	37.91	43.29	52.80	74	-21.20	Horizontal		
11128.630	10.31	38.11	38.29	43.65	53.78	74	-20.22	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		
3903.804	6.74	33.33	38.91	48.25	49.41	74	-24.59	Vertical		
4874.000	6.57	34.77	39.26	49.67	51.75	74	-22.25	Vertical		
5921.940	7.96	36.15	39.19	47.99	52.91	74	-21.09	Vertical		
7311.000	9.06	35.52	39.06	47.93	53.45	74	-20.55	Vertical		
9748.000	9.91	37.76	37.85	42.51	52.33	74	-21.67	Vertical		
11389.270	10.37	38.15	38.41	42.16	52.27	74	-21.73	Vertical		
3743.387	6.83	33.11	38.85	48.15	49.24	74	-24.76	Horizontal		
4874.000	6.57	34.77	39.26	49.20	51.28	74	-22.72	Horizontal		
5982.226	8.05	36.27	39.19	47.37	52.50	74	-21.50	Horizontal		
7311.000	9.06	35.52	39.06	47.44	52.96	74	-21.04	Horizontal		
9748.000	9.91	37.76	37.85	42.17	51.99	74	-22.01	Horizontal		
11488.580	10.39	38.22	38.46	43.23	53.38	74	-20.62	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 115 of 165

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		
3652.432	6.88	33.04	38.81	47.71	48.82	74	-25.18	Vertical		
4924.000	6.68	34.82	39.28	48.25	50.47	74	-23.53	Vertical		
5939.103	7.99	36.18	39.19	49.34	54.32	74	-19.68	Vertical		
7386.000	9.16	35.44	39.05	47.67	53.22	74	-20.78	Vertical		
9848.000	9.85	38.06	37.79	41.44	51.56	74	-22.44	Vertical		
10873.950	10.21	37.99	38.16	42.58	52.62	74	-21.38	Vertical		
3892.524	6.75	33.31	38.91	47.86	49.01	74	-24.99	Horizontal		
4924.000	6.68	34.82	39.28	48.61	50.83	74	-23.17	Horizontal		
5930.516	7.97	36.17	39.19	47.61	52.56	74	-21.44	Horizontal		
7386.000	9.16	35.44	39.05	47.63	53.18	74	-20.82	Horizontal		
9848.000	9.85	38.06	37.79	41.99	52.11	74	-21.89	Horizontal		
11356.360	10.36	38.14	38.40	42.97	53.07	74	-20.93	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		
3781.495	6.81	33.14	38.86	49.76	50.85	74	-23.15	Vertical		
4844.000	6.51	34.74	39.25	51.00	53.00	74	-21.00	Vertical		
5828.433	7.81	35.97	39.20	48.21	52.79	74	-21.21	Vertical		
7266.000	9.00	35.57	39.06	47.73	53.24	74	-20.76	Vertical		
9688.000	9.94	37.57	37.88	43.13	52.76	74	-21.24	Vertical		
11356.360	10.36	38.14	38.40	43.29	53.39	74	-20.61	Vertical		
3770.567	6.81	33.13	38.86	47.64	48.72	74	-25.28	Horizontal		
4844.000	6.51	34.74	39.25	48.67	50.67	74	-23.33	Horizontal		
5964.939	8.03	36.23	39.19	47.81	52.88	74	-21.12	Horizontal		
7266.000	9.00	35.57	39.06	46.65	52.16	74	-21.84	Horizontal		
9688.000	9.94	37.57	37.88	42.93	52.56	74	-21.44	Horizontal		
11422.280	10.37	38.17	38.43	42.67	52.78	74	-21.22	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 116 of 165

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		
3881.276	6.75	33.29	38.90	48.23	49.37	74	-24.63	Vertical		
4874.000	6.57	34.77	39.26	50.02	52.10	74	-21.90	Vertical		
6069.413	8.06	36.22	39.18	47.46	52.56	74	-21.44	Vertical		
7311.000	9.06	35.52	39.06	46.01	51.53	74	-22.47	Vertical		
9748.000	9.91	37.76	37.85	42.17	51.99	74	-22.01	Vertical		
11488.580	10.39	38.22	38.46	43.23	53.38	74	-20.62	Vertical		
3960.700	6.71	33.43	38.94	49.63	50.83	74	-23.17	Horizontal		
4874.000	6.57	34.77	39.26	50.36	52.44	74	-21.56	Horizontal		
5862.263	7.87	36.03	39.20	48.69	53.39	74	-20.61	Horizontal		
7311.000	9.06	35.52	39.06	48.32	53.84	74	-20.16	Horizontal		
9748.000	9.91	37.76	37.85	42.98	52.80	74	-21.20	Horizontal		
11422.280	10.37	38.17	38.43	43.58	53.69	74	-20.31	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		
3781.495	6.81	33.14	38.86	50.81	51.90	74	-22.10	Vertical		
4904.000	6.64	34.81	39.27	49.57	51.75	74	-22.25	Vertical		
5939.103	7.99	36.18	39.19	48.24	53.22	74	-20.78	Vertical		
7356.000	9.12	35.47	39.05	47.91	53.45	74	-20.55	Vertical		
9808.000	9.88	37.94	37.81	42.32	52.33	74	-21.67	Vertical		
10842.530	10.19	37.96	38.14	43.48	53.49	74	-20.51	Vertical		
3663.017	6.87	33.05	38.81	49.13	50.24	74	-23.76	Horizontal		
4904.000	6.64	34.81	39.27	49.95	52.13	74	-21.87	Horizontal		
5973.576	8.04	36.25	39.19	47.12	52.22	74	-21.78	Horizontal		
7356.000	9.12	35.47	39.05	47.66	53.20	74	-20.80	Horizontal		
9808.000	9.88	37.94	37.81	42.28	52.29	74	-21.71	Horizontal		
11389.270	10.37	38.15	38.41	43.36	53.47	74	-20.53	Horizontal		

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WHF-1200300T3:

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		
3462.037	7.04	32.85	38.72	47.92	49.09	74	-24.91	Vertical		
4824.000	6.46	34.72	39.24	47.83	49.77	74	-24.23	Vertical		
6043.124	8.07	36.25	39.18	48.53	53.67	74	-20.33	Vertical		
7236.000	8.96	35.60	39.06	47.18	52.68	74	-21.32	Vertical		
9648.000	9.97	37.45	37.91	42.31	51.82	74	-22.18	Vertical		
11588.750	10.43	38.29	38.51	41.26	51.47	74	-22.53	Vertical		
3527.774	6.95	32.92	38.75	47.86	48.98	74	-25.02	Horizontal		
4824.000	6.46	34.72	39.24	48.74	50.68	74	-23.32	Horizontal		
6087.002	8.06	36.20	39.17	46.97	52.06	74	-21.94	Horizontal		
7236.000	8.96	35.60	39.06	45.95	51.45	74	-22.55	Horizontal		
9648.000	9.97	37.45	37.91	40.94	50.45	74	-23.55	Horizontal		
11672.890	10.47	38.37	38.55	43.10	53.39	74	-20.61	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		
3568.847	6.93	32.97	38.77	47.29	48.42	74	-25.58	Vertical		
4874.000	6.57	34.77	39.26	48.75	50.83	74	-23.17	Vertical		
6095.816	8.06	36.19	39.17	47.45	52.53	74	-21.47	Vertical		
7311.000	9.06	35.52	39.06	46.98	52.50	74	-21.50	Vertical		
9748.000	9.91	37.76	37.85	43.13	52.95	74	-21.05	Vertical		
12015.620	10.63	38.72	38.71	42.28	52.92	74	-21.08	Vertical		
3737.975	6.83	33.10	38.84	47.44	48.53	74	-25.47	Horizontal		
4874.000	6.57	34.77	39.26	47.54	49.62	74	-24.38	Horizontal		
5982.226	8.05	36.27	39.19	48.06	53.19	74	-20.81	Horizontal		
7311.000	9.06	35.52	39.06	46.99	52.51	74	-21.49	Horizontal		
9748.000	9.91	37.76	37.85	42.70	52.52	74	-21.48	Horizontal		
11706.720	10.48	38.41	38.56	43.00	53.33	74	-20.67	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 118 of 165

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		
3743.387	6.83	33.11	38.85	46.91	48.00	74	-26.00	Vertical		
4924.000	6.68	34.82	39.28	47.98	50.20	74	-23.80	Vertical		
6148.967	8.05	36.14	39.17	47.89	52.91	74	-21.09	Vertical		
7386.000	9.16	35.44	39.05	46.10	51.65	74	-22.35	Vertical		
9848.000	9.85	38.06	37.79	42.11	52.23	74	-21.77	Vertical		
11672.890	10.47	38.37	38.55	42.69	52.98	74	-21.02	Vertical		
3543.121	6.94	32.94	38.76	46.47	47.59	74	-26.41	Horizontal		
4924.000	6.68	34.82	39.28	48.41	50.63	74	-23.37	Horizontal		
5973.576	8.04	36.25	39.19	48.61	53.71	74	-20.29	Horizontal		
7386.000	9.16	35.44	39.05	46.09	51.64	74	-22.36	Horizontal		
9848.000	9.85	38.06	37.79	40.28	50.40	74	-23.60	Horizontal		
11389.270	10.37	38.15	38.41	41.94	52.05	74	-21.95	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		
3765.116	6.82	33.12	38.86	47.15	48.23	74	-25.77	Vertical		
4824.000	6.46	34.72	39.24	48.23	50.17	74	-23.83	Vertical		
5862.263	7.87	36.03	39.20	47.93	52.63	74	-21.37	Vertical		
7236.000	8.96	35.60	39.06	43.67	49.17	74	-24.83	Vertical		
9648.000	9.97	37.45	37.91	42.07	51.58	74	-22.42	Vertical		
11639.160	10.45	38.34	38.53	42.28	52.54	74	-21.46	Vertical		
3748.808	6.83	33.11	38.85	46.47	47.56	74	-26.44	Horizontal		
4824.000	6.46	34.72	39.24	48.04	49.98	74	-24.02	Horizontal		
6078.201	8.06	36.21	39.18	48.51	53.60	74	-20.40	Horizontal		
7236.000	8.96	35.60	39.06	46.50	52.00	74	-22.00	Horizontal		
9648.000	9.97	37.45	37.91	40.93	50.44	74	-23.56	Horizontal		
11605.530	10.44	38.31	38.52	41.27	51.50	74	-22.50	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 119 of 165

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		
3631.354	6.89	33.02	38.80	48.44	49.55	74	-24.45	Vertical		
4874.000	6.57	34.77	39.26	49.20	51.28	74	-22.72	Vertical		
5913.378	7.95	36.13	39.19	48.85	53.74	74	-20.26	Vertical		
7311.000	9.06	35.52	39.06	44.40	49.92	74	-24.08	Vertical		
9748.000	9.91	37.76	37.85	41.87	51.69	74	-22.31	Vertical		
11422.280	10.37	38.17	38.43	43.30	53.41	74	-20.59	Vertical		
3770.567	6.81	33.13	38.86	46.41	47.49	74	-26.51	Horizontal		
4874.000	6.57	34.77	39.26	48.50	50.58	74	-23.42	Horizontal		
6060.637	8.07	36.23	39.18	48.00	53.12	74	-20.88	Horizontal		
7311.000	9.06	35.52	39.06	45.08	50.60	74	-23.40	Horizontal		
9748.000	9.91	37.76	37.85	41.83	51.65	74	-22.35	Horizontal		
11455.380	10.38	38.19	38.45	41.96	52.08	74	-21.92	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		
3836.607	6.78	33.22	38.89	46.72	47.83	74	-26.17	Vertical		
4924.000	6.68	34.82	39.28	46.65	48.87	74	-25.13	Vertical		
5999.562	8.08	36.30	39.18	46.79	51.99	74	-22.01	Vertical		
7386.000	9.16	35.44	39.05	43.01	48.56	74	-25.44	Vertical		
9848.000	9.85	38.06	37.79	39.14	49.26	74	-24.74	Vertical		
11323.540	10.35	38.14	38.38	41.26	51.37	74	-22.63	Vertical		
3737.975	6.83	33.10	38.84	48.16	49.25	74	-24.75	Horizontal		
4924.000	6.68	34.82	39.28	49.04	51.26	74	-22.74	Horizontal		
5939.103	7.99	36.18	39.19	49.69	54.67	74	-19.33	Horizontal		
7386.000	9.16	35.44	39.05	47.00	52.55	74	-21.45	Horizontal		
9848.000	9.85	38.06	37.79	41.87	51.99	74	-22.01	Horizontal		
11521.870	10.40	38.24	38.48	42.25	52.41	74	-21.59	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 120 of 165

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		
3641.878	6.89	33.03	38.80	47.90	49.02	74	-24.98	Vertical		
4824.000	6.46	34.72	39.24	47.52	49.46	74	-24.54	Vertical		
6087.002	8.06	36.20	39.17	48.33	53.42	74	-20.58	Vertical		
7236.000	8.96	35.60	39.06	43.79	49.29	74	-24.71	Vertical		
9648.000	9.97	37.45	37.91	40.71	50.22	74	-23.78	Vertical		
11505.210	10.39	38.23	38.47	41.86	52.01	74	-21.99	Vertical		
3836.607	6.78	33.22	38.89	46.30	47.41	74	-26.59	Horizontal		
4824.000	6.46	34.72	39.24	47.57	49.51	74	-24.49	Horizontal		
6034.386	8.07	36.26	39.18	48.20	53.35	74	-20.65	Horizontal		
7236.000	8.96	35.60	39.06	43.07	48.57	74	-25.43	Horizontal		
9648.000	9.97	37.45	37.91	44.26	53.77	74	-20.23	Horizontal		
11656.010	10.46	38.36	38.54	41.45	51.73	74	-22.27	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		
3819.990	6.79	33.19	38.88	47.35	48.45	74	-25.55	Vertical		
4874.000	6.57	34.77	39.26	48.29	50.37	74	-23.63	Vertical		
6034.386	8.07	36.26	39.18	47.20	52.35	74	-21.65	Vertical		
7311.000	9.06	35.52	39.06	46.27	51.79	74	-22.21	Vertical		
9748.000	9.91	37.76	37.85	41.92	51.74	74	-22.26	Vertical		
11422.280	10.37	38.17	38.43	43.30	53.41	74	-20.59	Vertical		
3694.956	6.86	33.07	38.83	47.68	48.78	74	-25.22	Horizontal		
4874.000	6.57	34.77	39.26	48.92	51.00	74	-23.00	Horizontal		
6034.386	8.07	36.26	39.18	48.20	53.35	74	-20.65	Horizontal		
7311.000	9.06	35.52	39.06	46.50	52.02	74	-21.98	Horizontal		
9748.000	9.91	37.76	37.85	41.92	51.74	74	-22.26	Horizontal		
11689.790	10.47	38.39	38.56	42.81	53.11	74	-20.89	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 121 of 165

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		
3568.847	6.93	32.97	38.77	46.22	47.35	74	-26.65	Vertical		
4924.000	6.68	34.82	39.28	46.63	48.85	74	-25.15	Vertical		
5964.939	8.03	36.23	39.19	48.02	53.09	74	-20.91	Vertical		
7386.000	9.16	35.44	39.05	47.40	52.95	74	-21.05	Vertical		
9848.000	9.85	38.06	37.79	41.35	51.47	74	-22.53	Vertical		
11723.670	10.49	38.43	38.57	42.68	53.03	74	-20.97	Vertical		
3825.521	6.78	33.20	38.88	48.23	49.33	74	-24.67	Horizontal		
4924.000	6.68	34.82	39.28	48.43	50.65	74	-23.35	Horizontal		
6016.949	8.08	36.28	39.18	48.20	53.38	74	-20.62	Horizontal		
7386.000	9.16	35.44	39.05	47.08	52.63	74	-21.37	Horizontal		
9848.000	9.85	38.06	37.79	41.57	51.69	74	-22.31	Horizontal		
11422.280	10.37	38.17	38.43	43.30	53.41	74	-20.59	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		
3589.562	6.92	32.99	38.78	47.36	48.49	74	-25.51	Vertical		
4844.000	6.51	34.74	39.25	48.13	50.13	74	-23.87	Vertical		
5999.562	8.08	36.30	39.18	47.79	52.99	74	-21.01	Vertical		
7266.000	9.00	35.57	39.06	44.23	49.74	74	-24.26	Vertical		
9688.000	9.94	37.57	37.88	41.96	51.59	74	-22.41	Vertical		
11521.870	10.40	38.24	38.48	42.27	52.43	74	-21.57	Vertical		
3792.453	6.80	33.14	38.87	47.96	49.03	74	-24.97	Horizontal		
4844.000	6.51	34.74	39.25	49.33	51.33	74	-22.67	Horizontal		
6175.716	8.04	36.11	39.17	47.34	52.32	74	-21.68	Horizontal		
7266.000	9.00	35.57	39.06	47.43	52.94	74	-21.06	Horizontal		
9688.000	9.94	37.57	37.88	44.06	53.69	74	-20.31	Horizontal		
11000.550	10.28	38.10	38.22	41.46	51.62	74	-22.38	Horizontal		



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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 122 of 165

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		
3909.457	6.74	33.34	38.91	47.93	49.10	74	-24.90	Vertical		
4874.000	6.57	34.77	39.26	49.23	51.31	74	-22.69	Vertical		
5921.940	7.96	36.15	39.19	47.33	52.25	74	-21.75	Vertical		
7311.000	9.06	35.52	39.06	48.26	53.78	74	-20.22	Vertical		
9748.000	9.91	37.76	37.85	42.46	52.28	74	-21.72	Vertical		
11639.160	10.45	38.34	38.53	42.77	53.03	74	-20.97	Vertical		
3792.453	6.80	33.14	38.87	47.96	49.03	74	-24.97	Horizontal		
4874.000	6.57	34.77	39.26	49.24	51.32	74	-22.68	Horizontal		
6087.002	8.06	36.20	39.17	47.44	52.53	74	-21.47	Horizontal		
7311.000	9.06	35.52	39.06	47.42	52.94	74	-21.06	Horizontal		
9748.000	9.91	37.76	37.85	41.88	51.70	74	-22.30	Horizontal		
11389.270	10.37	38.15	38.41	42.97	53.08	74	-20.92	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		
3770.567	6.81	33.13	38.86	48.04	49.12	74	-24.88	Vertical		
4904.000	6.64	34.81	39.27	49.07	51.25	74	-22.75	Vertical		
6008.249	8.08	36.29	39.18	47.94	53.13	74	-20.87	Vertical		
7356.000	9.12	35.47	39.05	44.55	50.09	74	-23.91	Vertical		
9808.000	9.88	37.94	37.81	42.27	52.28	74	-21.72	Vertical		
11505.210	10.39	38.23	38.47	42.78	52.93	74	-21.07	Vertical		
3814.467	6.79	33.18	38.88	48.30	49.39	74	-24.61	Horizontal		
4904.000	6.64	34.81	39.27	48.80	50.98	74	-23.02	Horizontal		
5913.378	7.95	36.13	39.19	47.95	52.84	74	-21.16	Horizontal		
7356.000	9.12	35.47	39.05	48.24	53.78	74	-20.22	Horizontal		
9808.000	9.88	37.94	37.81	42.11	52.12	74	-21.88	Horizontal		
11488.580	10.39	38.22	38.46	43.19	53.34	74	-20.66	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 123 of 165

SW36-12003000-W:

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		
3449.984	7.06	32.84	38.72	46.94	48.12	74	-25.88	Vertical		
4824.000	6.46	34.72	39.24	46.22	48.16	74	-25.84	Vertical		
5980.114	8.05	36.26	39.19	48.49	53.61	74	-20.39	Vertical		
7236.000	8.96	35.60	39.06	46.08	51.58	74	-22.42	Vertical		
9648.000	9.97	37.45	37.91	43.05	52.56	74	-21.44	Vertical		
11877.950	10.56	38.58	38.64	42.02	52.52	74	-21.48	Vertical		
3437.643	7.09	32.82	38.71	47.25	48.45	74	-25.55	Horizontal		
4824.000	6.46	34.72	39.24	47.74	49.68	74	-24.32	Horizontal		
6001.583	8.08	36.30	39.18	47.10	52.30	74	-21.70	Horizontal		
7236.000	8.96	35.60	39.06	47.50	53.00	74	-21.00	Horizontal		
9648.000	9.97	37.45	37.91	42.43	51.94	74	-22.06	Horizontal		
11116.030	10.31	38.11	38.28	41.38	51.52	74	-22.48	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		
3292.950	7.37	32.50	38.65	45.78	47.00	74	-27.00	Vertical		
4874.000	6.57	34.77	39.26	47.01	49.09	74	-24.91	Vertical		
5958.723	8.02	36.22	39.19	46.53	51.58	74	-22.42	Vertical		
7311.000	9.06	35.52	39.06	47.18	52.70	74	-21.30	Vertical		
9748.000	9.91	37.76	37.85	41.24	51.06	74	-22.94	Vertical		
11116.030	10.31	38.11	38.28	41.38	51.52	74	-22.48	Vertical		
3413.093	7.13	32.79	38.70	45.27	46.49	74	-27.51	Horizontal		
4874.000	6.57	34.77	39.26	45.63	47.71	74	-26.29	Horizontal		
6001.583	8.08	36.30	39.18	47.52	52.72	74	-21.28	Horizontal		
7311.000	9.06	35.52	39.06	46.30	51.82	74	-22.18	Horizontal		
9748.000	9.91	37.76	37.85	42.26	52.08	74	-21.92	Horizontal		
11604.470	10.44	38.30	38.52	40.96	51.18	74	-22.82	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 124 of 165

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		
3413.093	7.13	32.79	38.70	45.27	46.49	74	-27.51	Vertical		
4924.000	6.68	34.82	39.28	45.49	47.71	74	-26.29	Vertical		
6001.583	8.08	36.30	39.18	47.52	52.72	74	-21.28	Vertical		
7386.000	9.16	35.44	39.05	45.50	51.05	74	-22.95	Vertical		
9848.000	9.85	38.06	37.79	42.31	52.43	74	-21.57	Vertical		
11877.950	10.56	38.58	38.64	42.36	52.86	74	-21.14	Vertical		
3388.719	7.18	32.75	38.69	46.59	47.83	74	-26.17	Horizontal		
4924.000	6.68	34.82	39.28	46.55	48.77	74	-25.23	Horizontal		
5980.114	8.05	36.26	39.19	46.49	51.61	74	-22.39	Horizontal		
7386.000	9.16	35.44	39.05	46.48	52.03	74	-21.97	Horizontal		
9848.000	9.85	38.06	37.79	42.86	52.98	74	-21.02	Horizontal		
11899.250	10.57	38.60	38.65	41.99	52.51	74	-21.49	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		
3425.346	7.11	32.81	38.71	46.91	48.12	74	-25.88	Vertical		
4824.000	6.46	34.72	39.24	46.44	48.38	74	-25.62	Vertical		
5916.169	7.95	36.14	39.19	48.44	53.34	74	-20.66	Vertical		
7236.000	8.96	35.60	39.06	47.03	52.53	74	-21.47	Vertical		
9648.000	9.97	37.45	37.91	42.67	52.18	74	-21.82	Vertical		
11772.010	10.51	38.47	38.59	41.33	51.72	74	-22.28	Vertical		
3437.643	7.09	32.82	38.71	47.25	48.45	74	-25.55	Horizontal		
4824.000	6.46	34.72	39.24	47.74	49.68	74	-24.32	Horizontal		
5958.723	8.02	36.22	39.19	46.53	51.58	74	-22.42	Horizontal		
7236.000	8.96	35.60	39.06	45.77	51.27	74	-22.73	Horizontal		
9648.000	9.97	37.45	37.91	41.55	51.06	74	-22.94	Horizontal		
11116.030	10.31	38.11	38.28	41.38	51.52	74	-22.48	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 125 of 165

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		
3400.884	7.16	32.78	38.70	46.76	48.00	74	-26.00	Vertical		
4874.000	6.57	34.77	39.26	47.60	49.68	74	-24.32	Vertical		
5852.908	7.85	36.01	39.20	48.43	53.09	74	-20.91	Vertical		
7311.000	9.06	35.52	39.06	47.48	53.00	74	-21.00	Vertical		
9748.000	9.91	37.76	37.85	42.17	51.99	74	-22.01	Vertical		
11096.130	10.30	38.11	38.27	42.32	52.46	74	-21.54	Vertical		
3462.369	7.04	32.85	38.72	45.68	46.85	74	-27.15	Horizontal		
4874.000	6.57	34.77	39.26	45.63	47.71	74	-26.29	Horizontal		
5895.006	7.92	36.10	39.19	46.56	51.39	74	-22.61	Horizontal		
7311.000	9.06	35.52	39.06	46.14	51.66	74	-22.34	Horizontal		
9748.000	9.91	37.76	37.85	41.90	51.72	74	-22.28	Horizontal		
11877.950	10.56	38.58	38.64	42.36	52.86	74	-21.14	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		
3388.719	7.18	32.75	38.69	45.17	46.41	74	-27.59	Vertical		
4924.000	6.68	34.82	39.28	45.95	48.17	74	-25.83	Vertical		
6287.786	8.02	35.97	39.15	47.94	52.78	74	-21.22	Vertical		
7386.000	9.16	35.44	39.05	44.48	50.03	74	-23.97	Vertical		
9848.000	9.85	38.06	37.79	40.66	50.78	74	-23.22	Vertical		
11750.940	10.50	38.45	38.58	41.87	52.24	74	-21.76	Vertical		
3449.984	7.06	32.84	38.72	46.94	48.12	74	-25.88	Horizontal		
4924.000	6.68	34.82	39.28	46.47	48.69	74	-25.31	Horizontal		
5916.169	7.95	36.14	39.19	47.44	52.34	74	-21.66	Horizontal		
7386.000	9.16	35.44	39.05	46.48	52.03	74	-21.97	Horizontal		
9848.000	9.85	38.06	37.79	41.06	51.18	74	-22.82	Horizontal		
11877.950	10.56	38.58	38.64	42.02	52.52	74	-21.48	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 126 of 165

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		
3425.346	7.11	32.81	38.71	46.91	48.12	74	-25.88	Vertical		
4824.000	6.46	34.72	39.24	46.22	48.16	74	-25.84	Vertical		
5916.169	7.95	36.14	39.19	48.44	53.34	74	-20.66	Vertical		
7236.000	8.96	35.60	39.06	46.80	52.30	74	-21.70	Vertical		
9648.000	9.97	37.45	37.91	43.47	52.98	74	-21.02	Vertical		
11877.950	10.56	38.58	38.64	42.02	52.52	74	-21.48	Vertical		
3437.643	7.09	32.82	38.71	47.25	48.45	74	-25.55	Horizontal		
4824.000	6.46	34.72	39.24	47.74	49.68	74	-24.32	Horizontal		
5916.169	7.95	36.14	39.19	48.18	53.08	74	-20.92	Horizontal		
7236.000	8.96	35.60	39.06	47.50	53.00	74	-21.00	Horizontal		
9648.000	9.97	37.45	37.91	43.48	52.99	74	-21.01	Horizontal		
11116.030	10.31	38.11	38.28	43.38	53.52	74	-20.48	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		
3474.799	7.02	32.86	38.73	47.44	48.59	74	-25.41	Vertical		
4874.000	6.57	34.77	39.26	47.35	49.43	74	-24.57	Vertical		
5958.723	8.02	36.22	39.19	48.53	53.58	74	-20.42	Vertical		
7311.000	9.06	35.52	39.06	46.37	51.89	74	-22.11	Vertical		
9748.000	9.91	37.76	37.85	43.17	52.99	74	-21.01	Vertical		
11116.030	10.31	38.11	38.28	43.38	53.52	74	-20.48	Vertical		
3425.346	7.11	32.81	38.71	45.62	46.83	74	-27.17	Horizontal		
4874.000	6.57	34.77	39.26	45.63	47.71	74	-26.29	Horizontal		
5958.723	8.02	36.22	39.19	47.31	52.36	74	-21.64	Horizontal		
7311.000	9.06	35.52	39.06	45.24	50.76	74	-23.24	Horizontal		
9748.000	9.91	37.76	37.85	40.43	50.25	74	-23.75	Horizontal		
11877.950	10.56	38.58	38.64	42.36	52.86	74	-21.14	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 127 of 165

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		
3425.346	7.11	32.81	38.71	45.62	46.83	74	-27.17	Vertical		
4924.000	6.68	34.82	39.28	45.95	48.17	74	-25.83	Vertical		
6001.583	8.08	36.30	39.18	47.52	52.72	74	-21.28	Vertical		
7386.000	9.16	35.44	39.05	45.21	50.76	74	-23.24	Vertical		
9848.000	9.85	38.06	37.79	42.31	52.43	74	-21.57	Vertical		
11877.950	10.56	38.58	38.64	42.36	52.86	74	-21.14	Vertical		
3449.984	7.06	32.84	38.72	46.94	48.12	74	-25.88	Horizontal		
4924.000	6.68	34.82	39.28	45.94	48.16	74	-25.84	Horizontal		
5916.169	7.95	36.14	39.19	48.44	53.34	74	-20.66	Horizontal		
7386.000	9.16	35.44	39.05	46.50	52.05	74	-21.95	Horizontal		
9848.000	9.85	38.06	37.79	42.44	52.56	74	-21.44	Horizontal		
11877.950	10.56	38.58	38.64	42.02	52.52	74	-21.48	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		
3425.346	7.11	32.81	38.71	46.91	48.12	74	-25.88	Vertical		
4844.000	6.51	34.74	39.25	46.16	48.16	74	-25.84	Vertical		
5916.169	7.95	36.14	39.19	48.44	53.34	74	-20.66	Vertical		
7266.000	9.00	35.57	39.06	46.54	52.05	74	-21.95	Vertical		
9688.000	9.94	37.57	37.88	42.93	52.56	74	-21.44	Vertical		
12071.040	10.72	38.79	38.76	41.97	52.72	74	-21.28	Vertical		
3400.884	7.16	32.78	38.70	46.76	48.00	74	-26.00	Horizontal		
4844.000	6.51	34.74	39.25	47.40	49.40	74	-24.60	Horizontal		
5948.056	8.00	36.20	39.19	47.32	52.33	74	-21.67	Horizontal		
7266.000	9.00	35.57	39.06	46.76	52.27	74	-21.73	Horizontal		
9688.000	9.94	37.57	37.88	43.36	52.99	74	-21.01	Horizontal		
11296.740	10.35	38.13	38.37	42.81	52.92	74	-21.08	Horizontal		

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SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 128 of 165

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		
3376.597	7.21	32.72	38.69	46.30	47.54	74	-26.46	Vertical		
4874.000	6.57	34.77	39.26	47.60	49.68	74	-24.32	Vertical		
5990.839	8.07	36.28	39.18	47.72	52.89	74	-21.11	Vertical		
7311.000	9.06	35.52	39.06	46.75	52.27	74	-21.73	Vertical		
9748.000	9.91	37.76	37.85	42.17	51.99	74	-22.01	Vertical		
11276.520	10.34	38.13	38.36	42.21	52.32	74	-21.68	Vertical		
3425.346	7.11	32.81	38.71	45.62	46.83	74	-27.17	Horizontal		
4874.000	6.57	34.77	39.26	46.09	48.17	74	-25.83	Horizontal		
5948.056	8.00	36.20	39.19	46.81	51.82	74	-22.18	Horizontal		
7311.000	9.06	35.52	39.06	45.55	51.07	74	-22.93	Horizontal		
9748.000	9.91	37.76	37.85	41.79	51.61	74	-22.39	Horizontal		
11877.950	10.56	38.58	38.64	42.36	52.86	74	-21.14	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		
3425.346	7.11	32.81	38.71	45.62	46.83	74	-27.17	Vertical		
4908.000	6.64	34.81	39.27	45.53	47.71	74	-26.29	Vertical		
6001.583	8.08	36.30	39.18	47.52	52.72	74	-21.28	Vertical		
7356.000	9.12	35.47	39.05	44.86	50.40	74	-23.60	Vertical		
9808.000	9.88	37.94	37.81	41.60	51.61	74	-22.39	Vertical		
12049.430	10.69	38.76	38.74	42.34	53.05	74	-20.95	Vertical		
3425.346	7.11	32.81	38.71	46.91	48.12	74	-25.88	Horizontal		
4904.000	6.64	34.81	39.27	47.55	49.73	74	-24.27	Horizontal		
5916.169	7.95	36.14	39.19	48.44	53.34	74	-20.66	Horizontal		
7356.000	9.12	35.47	39.05	46.99	52.53	74	-21.47	Horizontal		
9808.000	9.88	37.94	37.81	42.55	52.56	74	-21.44	Horizontal		
11793.120	10.52	38.49	38.60	41.79	52.20	74	-21.80	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.

3) As shown in this section, for frequencies above 1GHz, the 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. So, only the peak measurements were shown in the report.

6.9 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205		
Test Method:	ANSI C63.10 2009		
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:			

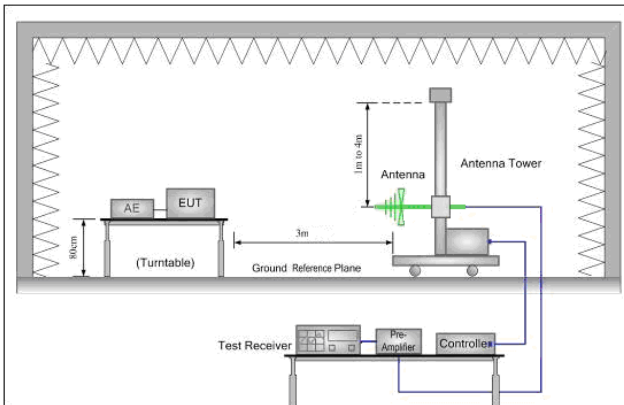


Figure 1. 30MHz to 1GHz

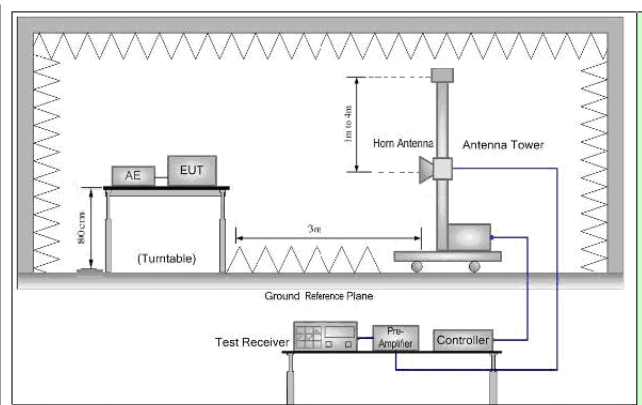


Figure 2. Above 1 GHz

<p>Test Procedure:</p>	<ol style="list-style-type: none"> a. 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. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. 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. d. 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. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. 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 g. Test the EUT in the lowest channel , the Highest channel h. Repeat above procedures until all frequencies measured was complete.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Transmitting mode</p>
<p>Final Test Mode:</p>	<p>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.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>

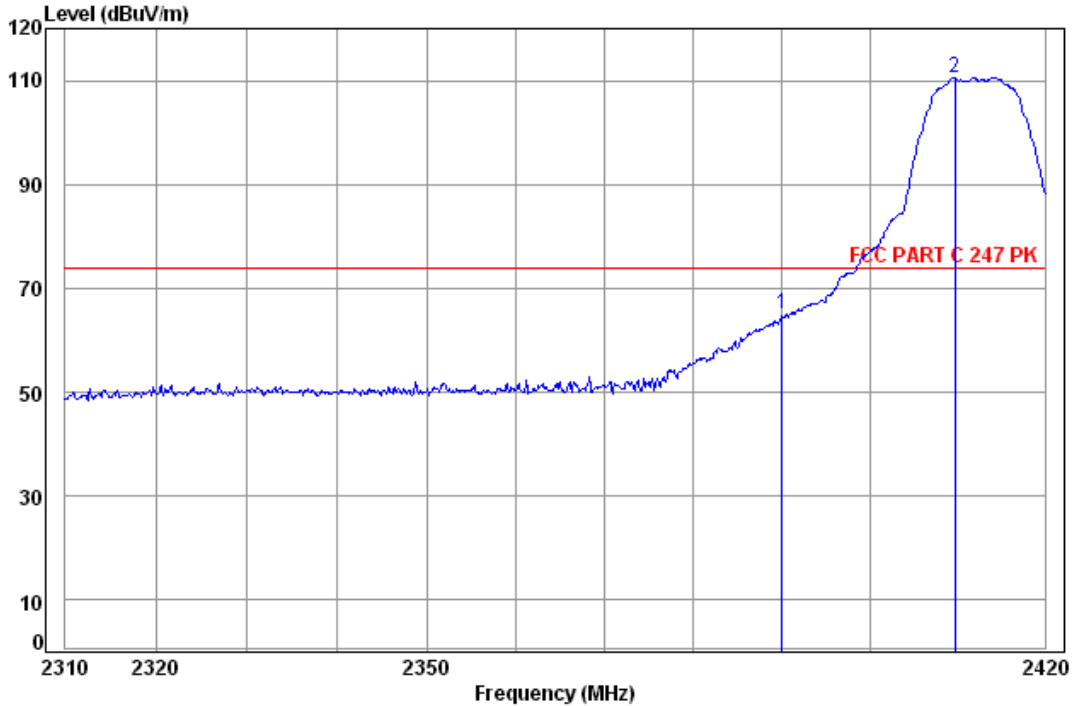




Test plot as follows:

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 542



Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 5892CR
 Mode: : 2412 B Band edge

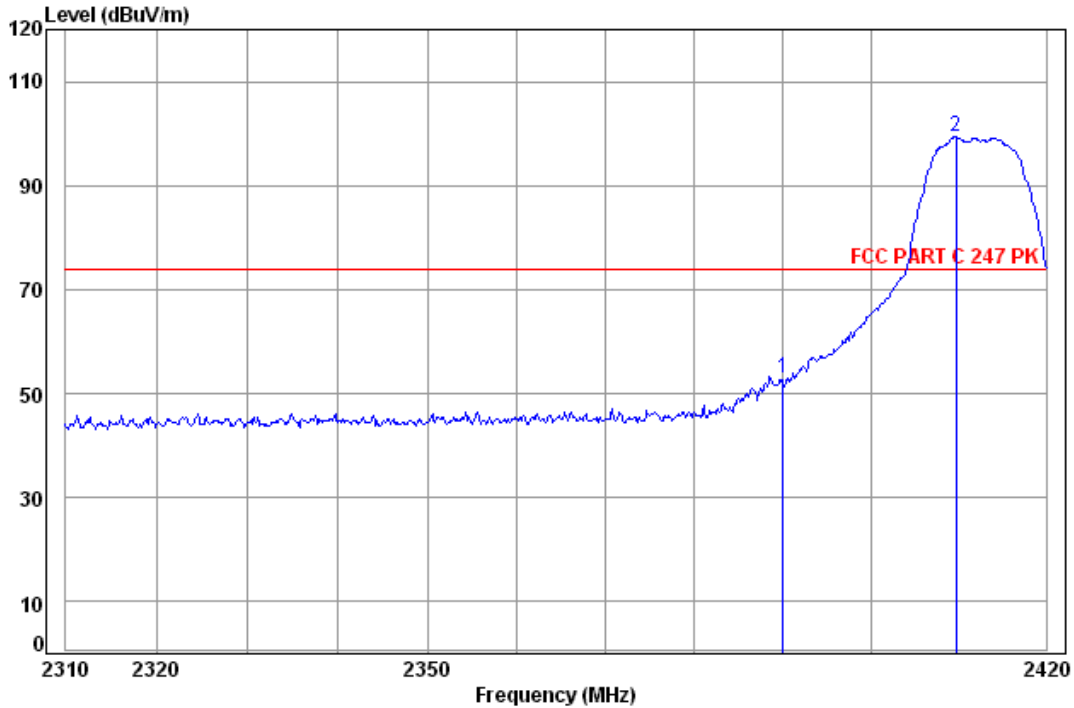
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	66.20	64.99	74.00	-9.01
2 pp	2409.67	4.93	32.41	38.46	111.65	110.53	74.00	36.53

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Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 540



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 5892CR
 Mode: : 2412 B Band edge

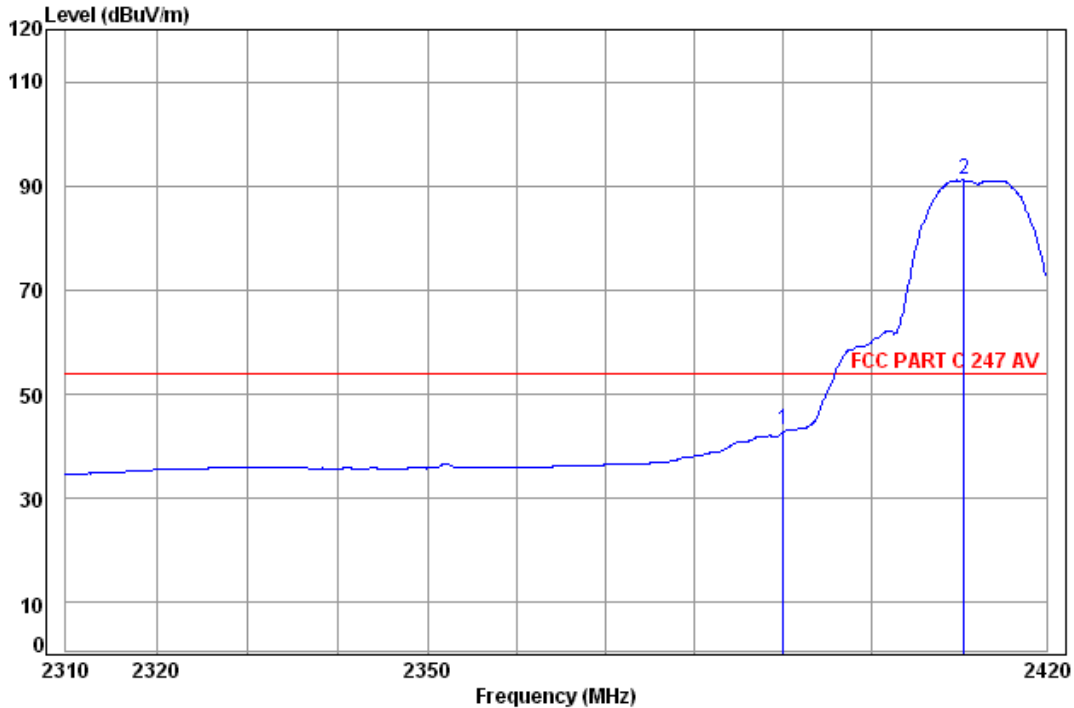
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	54.17	74.00	-21.04
2 pp	2409.67	4.93	32.41	38.46	100.48	74.00	25.36

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Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 543



Site : chamber
Condition: FCC PART C 247 AV 3m Vertical
Job No: : 5892CR
Mode: : 2412 B Band edge

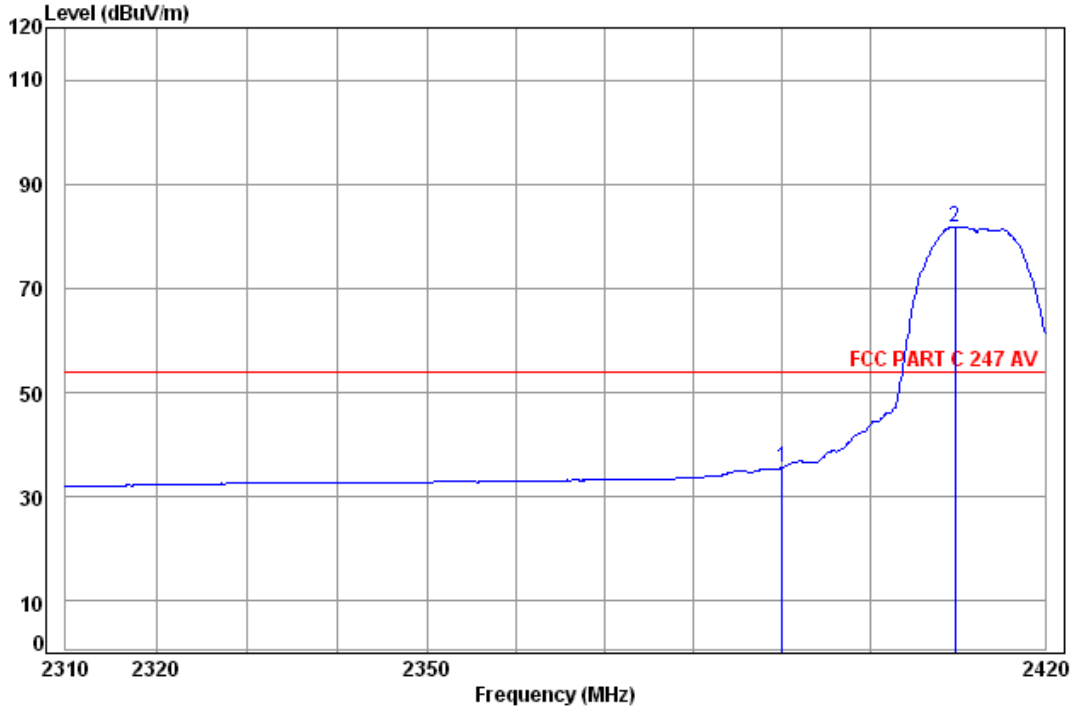
	Cable	Ant	Preamp	Read	Limit	Over			
Freq	Loss	Factor	Factor	Level	Line	Limit			
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m			
1	2390.00	4.90	32.35	38.46	44.29	43.08	54.00	-10.92	
2	pp	2410.56	4.93	32.41	38.46	92.20	91.08	54.00	37.08

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Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 541



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 5892CR
 Mode: : 2412 B Band edge

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.00	4.90	32.35	38.46	36.91	35.70	54.00	-18.30
2 pp	2409.67	4.93	32.41	38.46	82.91	81.79	54.00	27.79

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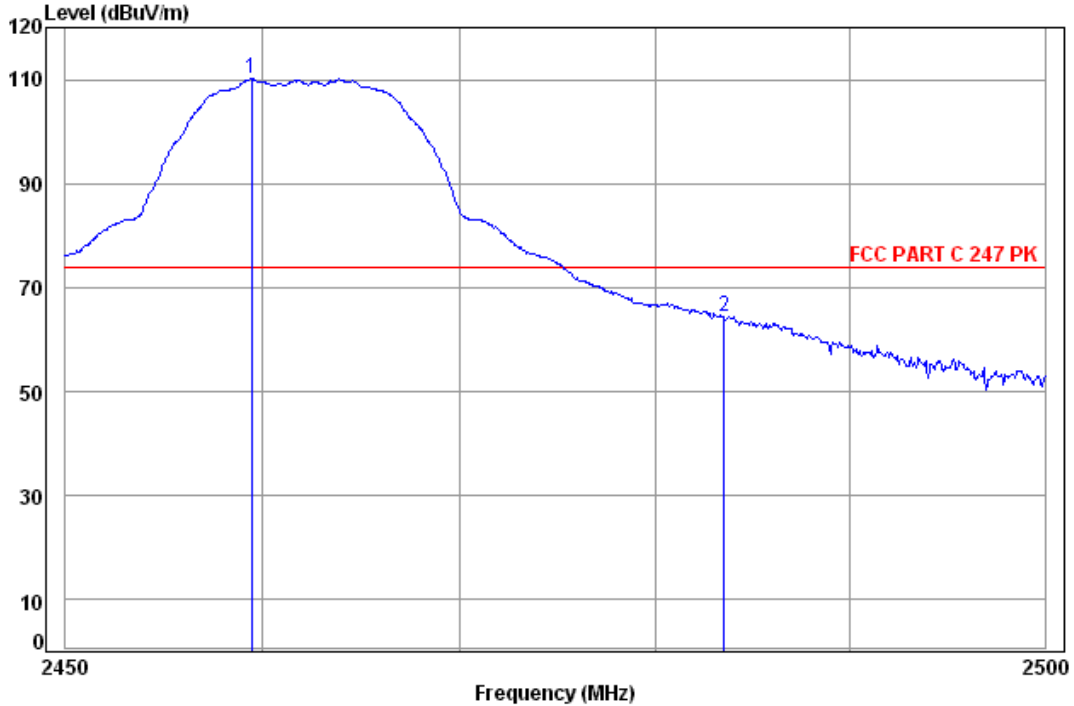
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Report No.: SZEM141000589202

Page: 136 of 165

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 544



Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 5892CR
 Mode: : 2462 B Band edge

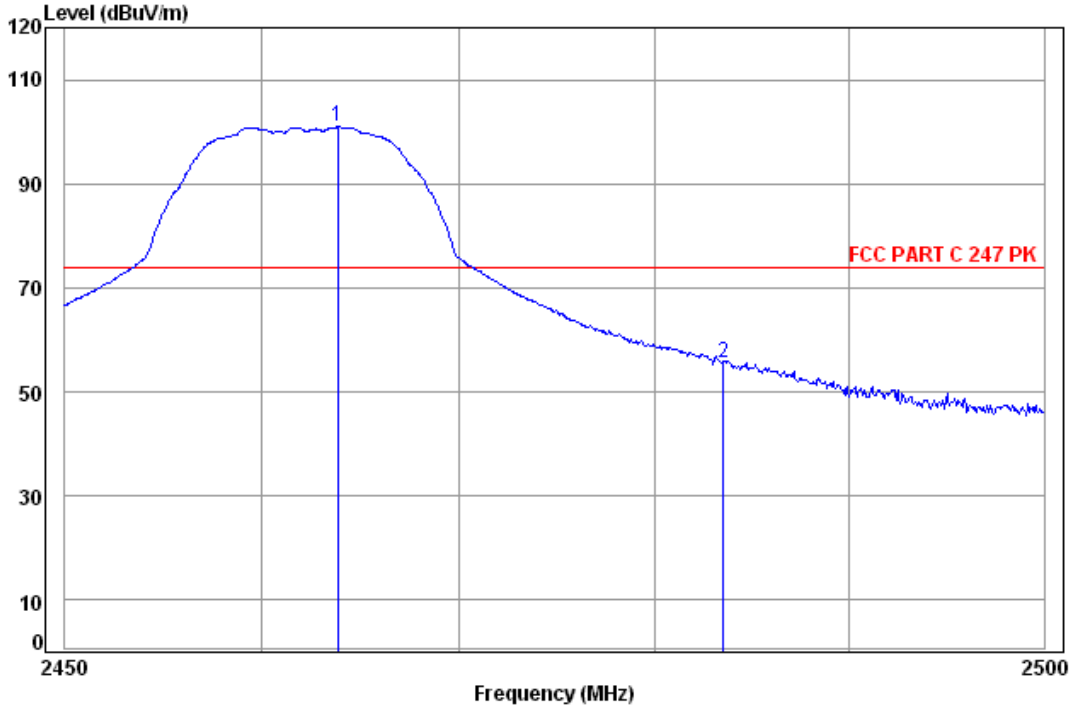
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Line	Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2459.42	5.00	32.43	38.46	111.17	110.14	74.00	36.14
2	2483.50	5.03	32.44	38.47	65.50	64.50	74.00	-9.50

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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
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Data: 546



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 5892CR
 Mode: : 2462 B Band edge

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2463.85	5.00	32.43	38.46	101.93	100.90	74.00	26.90
2 2483.50	5.03	32.44	38.47	56.65	55.65	74.00	-18.35

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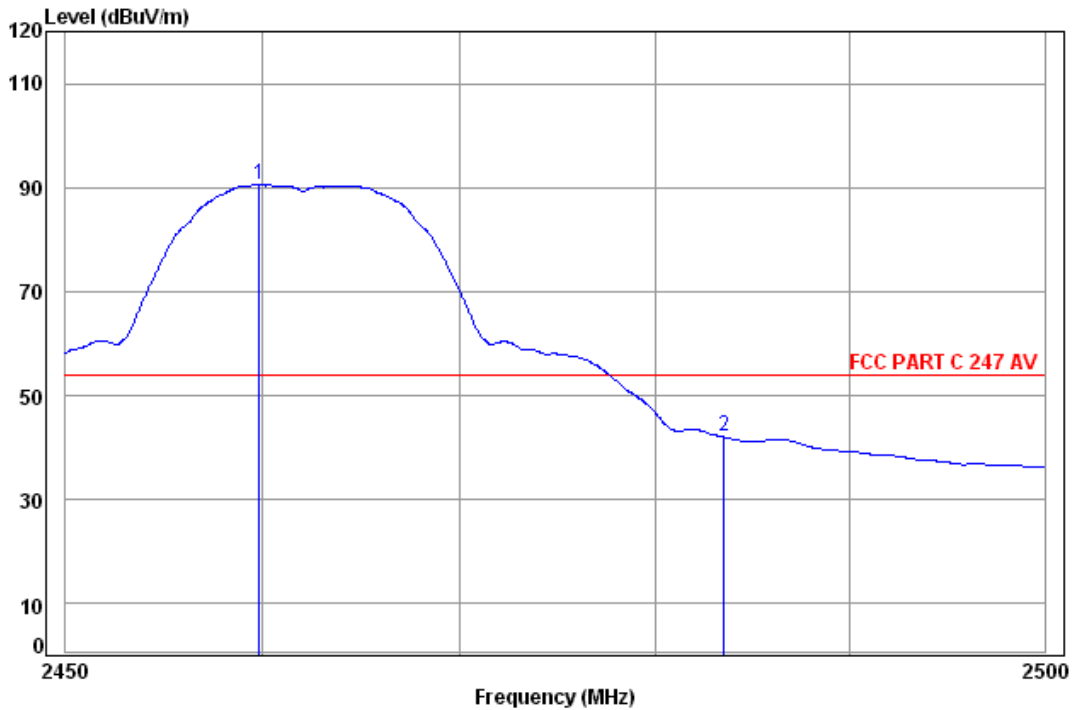
SGS-CSTC Standards Technical Services Ltd.

Report No.: SZEM141000589202

Page: 138 of 165

Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
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Data: 545



Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical
 Job No: : 5892CR
 Mode: : 2462 B Band edge

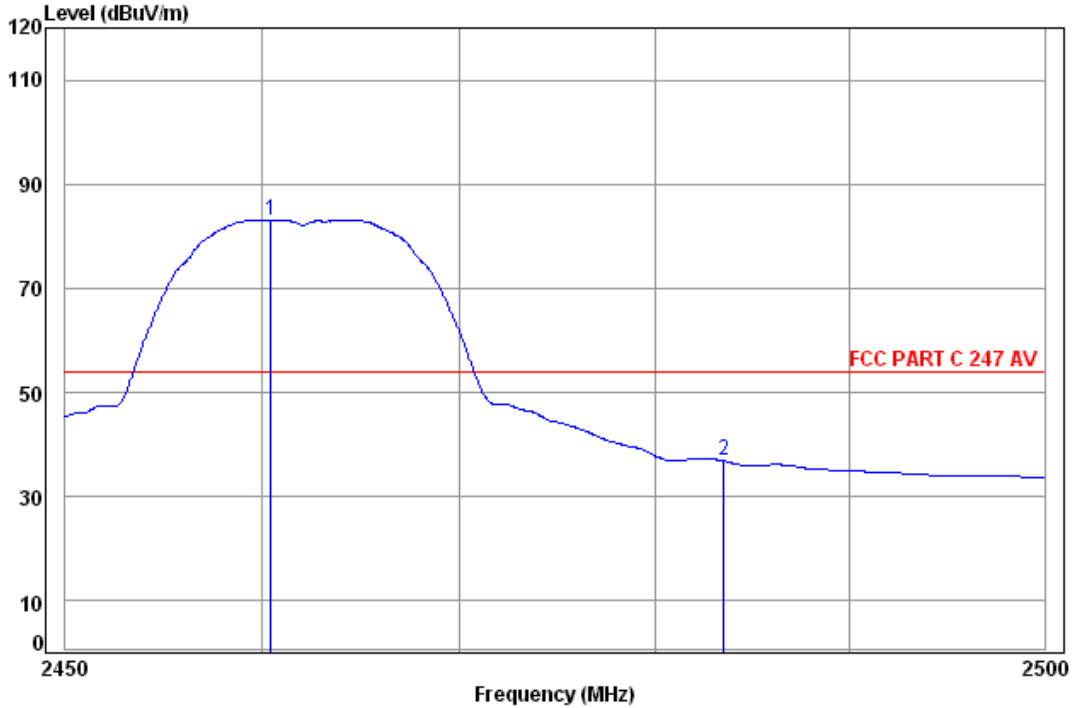
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2459.82	5.00	32.43	38.46	91.51	90.48	54.00	36.48
2	2483.50	5.03	32.44	38.47	43.04	42.04	54.00	-11.96

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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 547



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 5892CR
 Mode: : 2462 B Band edge

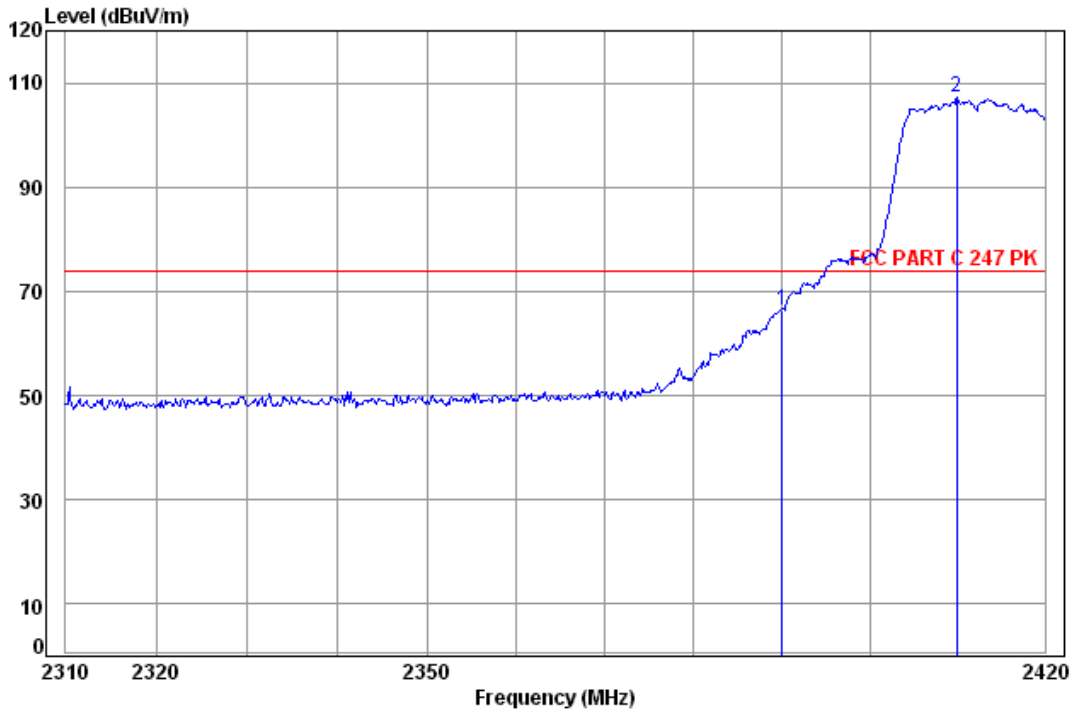
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2460.42	5.00	32.43	38.46	84.18	83.15	54.00	29.15
2	2483.50	5.03	32.44	38.47	37.92	36.92	54.00	-17.08

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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 552



Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 5892CR
 Mode: : 2412 G Band edge

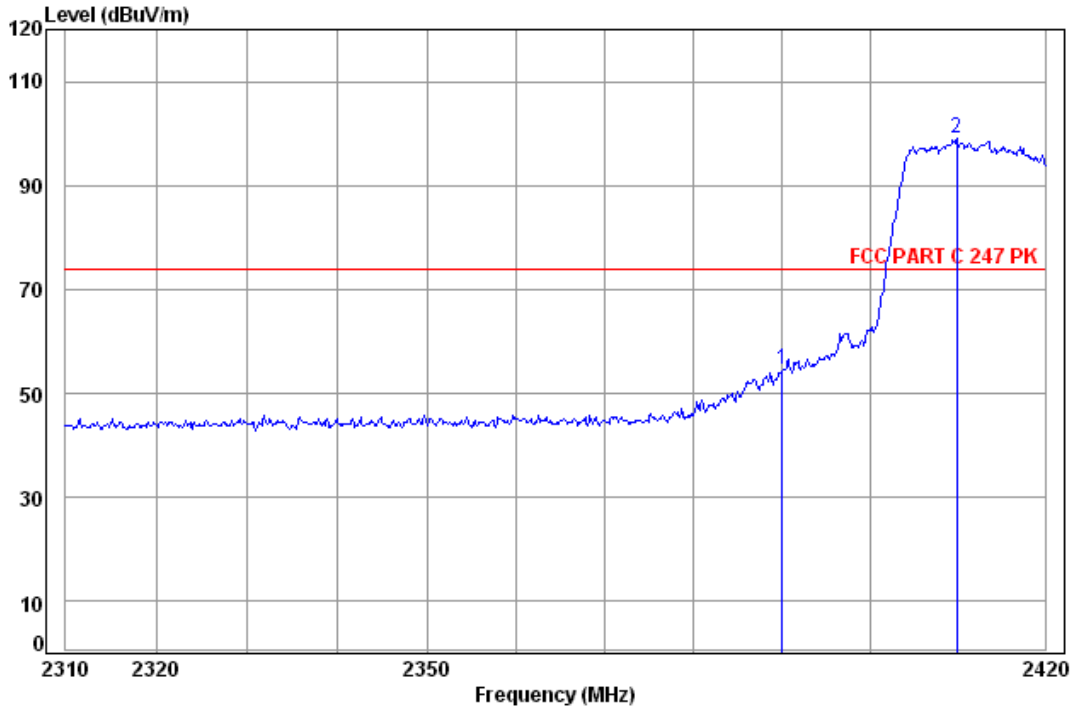
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.00	4.90	32.35	38.46	67.71	66.50	74.00	-7.50
2 pp	2409.89	4.93	32.41	38.46	108.25	107.13	74.00	33.13

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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 554



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 5892CR
 Mode: : 2412 G Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	55.98	74.00	-19.23
2 pp	2409.89	4.93	32.41	38.46	100.09	74.00	24.97

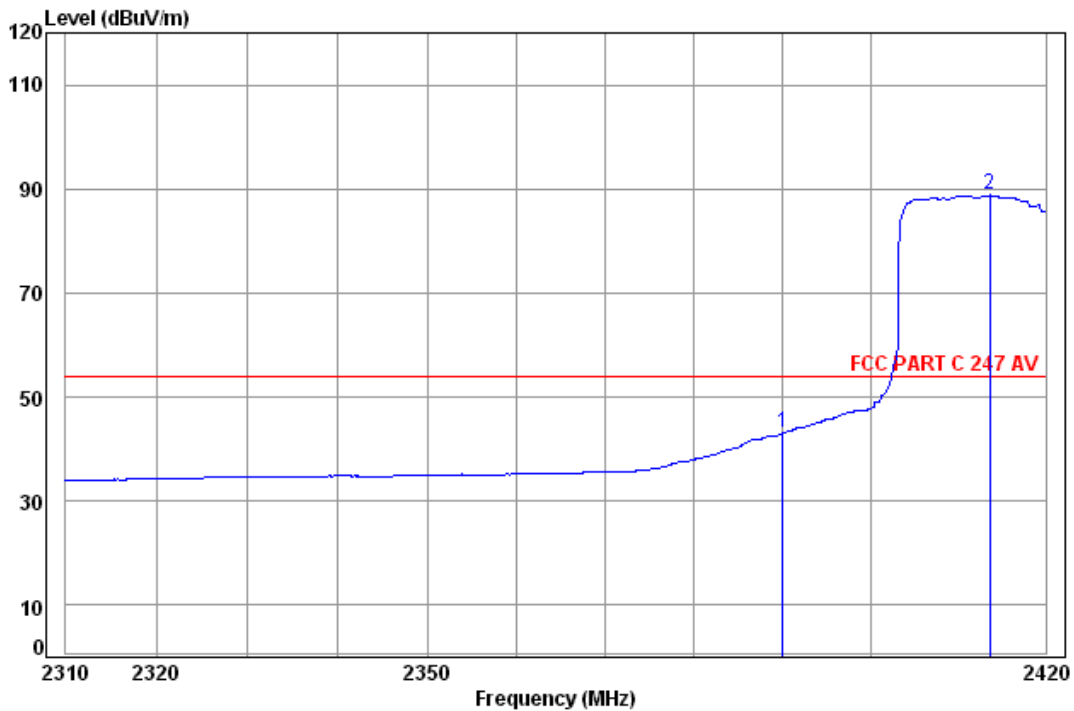


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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 553



Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical
 Job No: : 5892CR
 Mode: : 2412 G Band edge

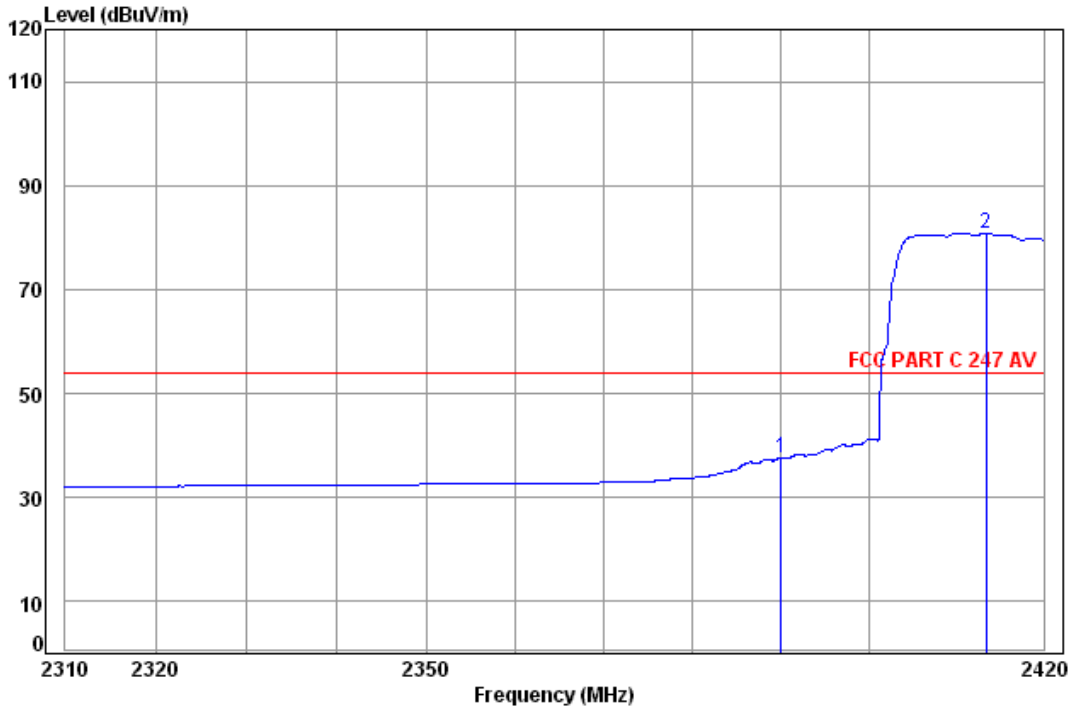
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.00	4.90	32.35	38.46	44.38	43.17	54.00	-10.83
2	pp 2413.59	4.93	32.41	38.46	89.94	88.82	54.00	34.82

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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 555



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 5892CR
 Mode: : 2412 G Band edge

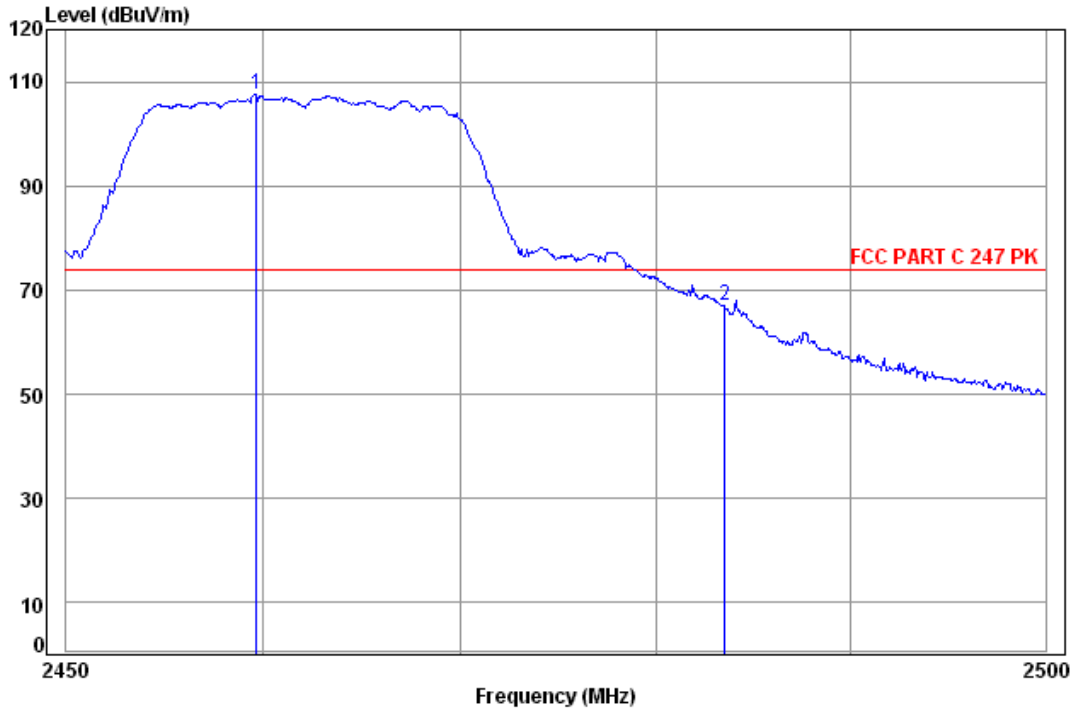
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	38.92	54.00	-16.29
2 pp	2413.37	4.93	32.41	38.46	82.02	54.00	26.90

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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 550



Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 5892CR
 Mode: : 2462 G Band edge

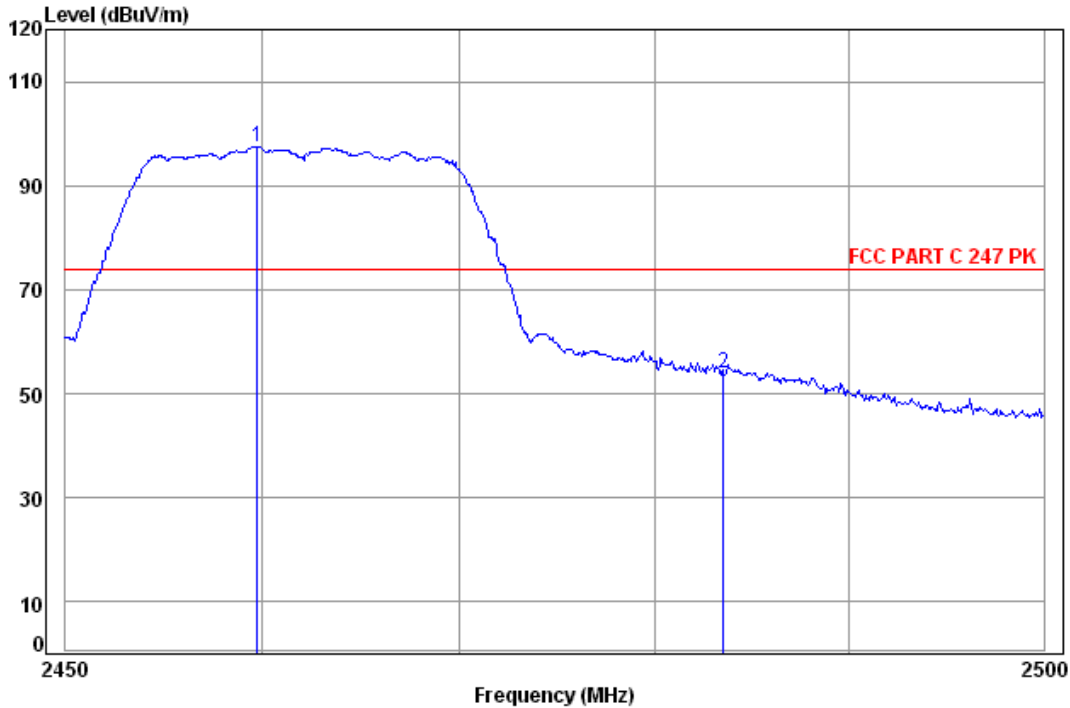
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2459.62	5.00	32.43	38.46	108.58	107.55	74.00	33.55
2	2483.50	5.03	32.44	38.47	67.92	66.92	74.00	-7.08

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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
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Data: 548



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 5892CR
 Mode: : 2462 G Band edge

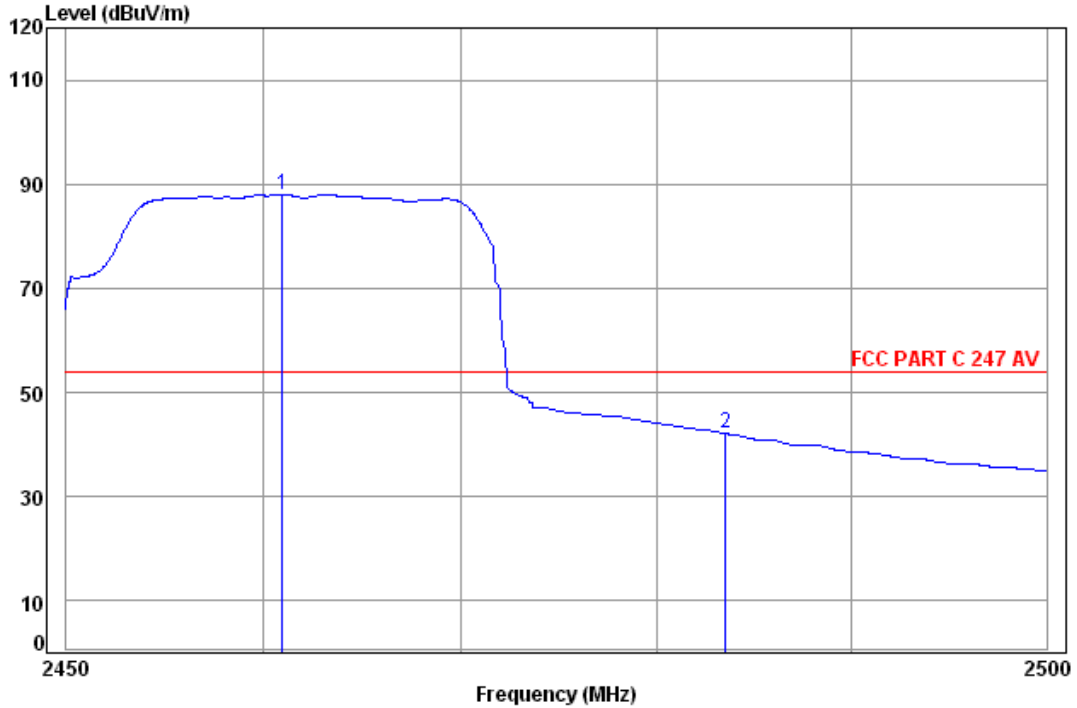
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2459.72	5.00	32.43	38.46	98.57	97.54	74.00	23.54
2	2483.50	5.03	32.44	38.47	55.04	54.04	74.00	-19.96

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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Vertical
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Data: 551



Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical
 Job No: : 5892CR
 Mode: : 2462 G Band edge

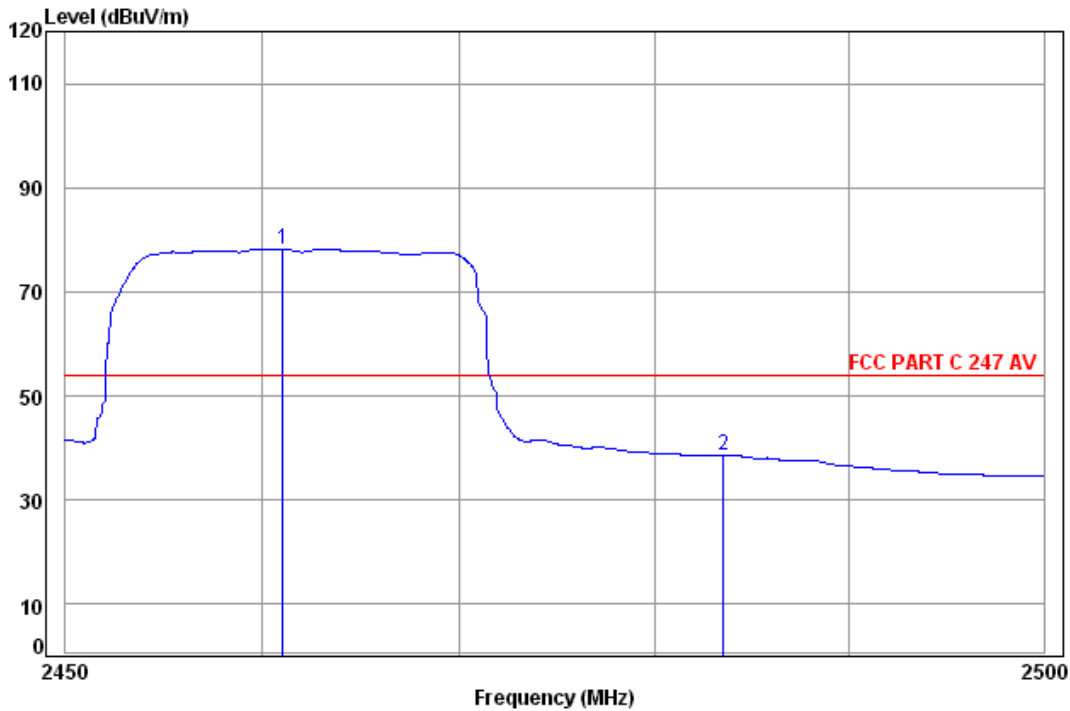
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2460.91	5.00	32.43	38.46	88.97	54.00	33.94
2	2483.50	5.03	32.44	38.47	43.12	54.00	-11.88

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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 549



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 5892CR
 Mode: : 2462 G Band edge

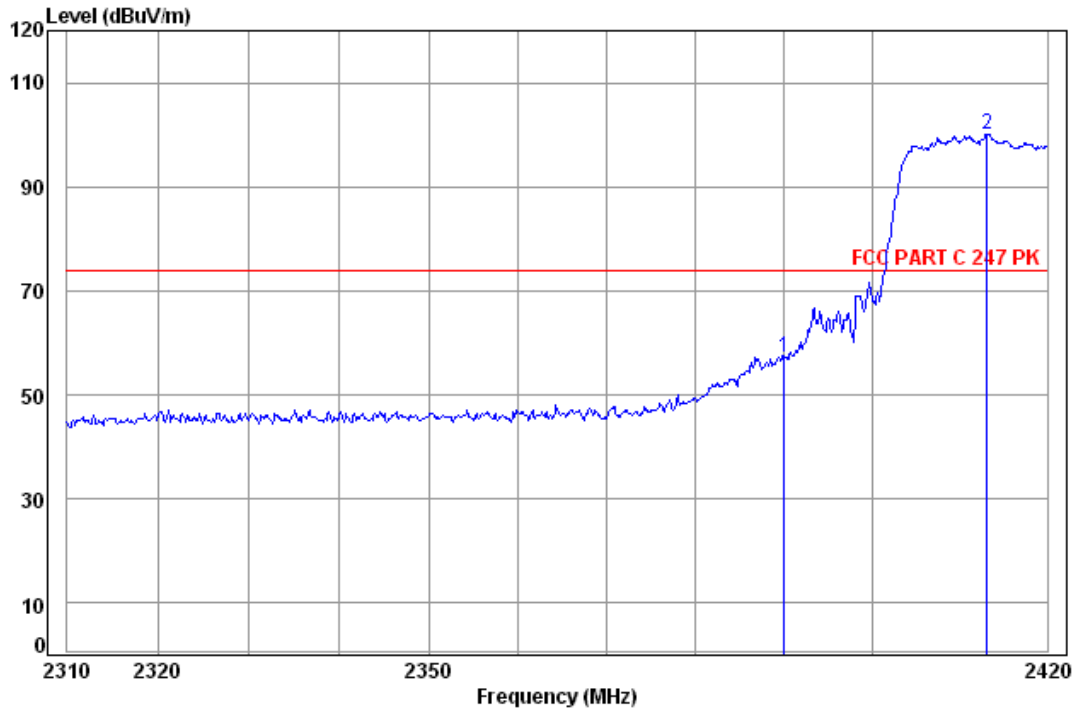
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2461.01	5.00	32.43	38.46	79.23	78.20	54.00	24.20
2	2483.50	5.03	32.44	38.47	39.47	38.47	54.00	-15.53

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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 558



Site : chamber
Condition: FCC PART C 247 PK 3m Vertical
Job No: : 5892CR
Mode: : 2412 N20 Band edge

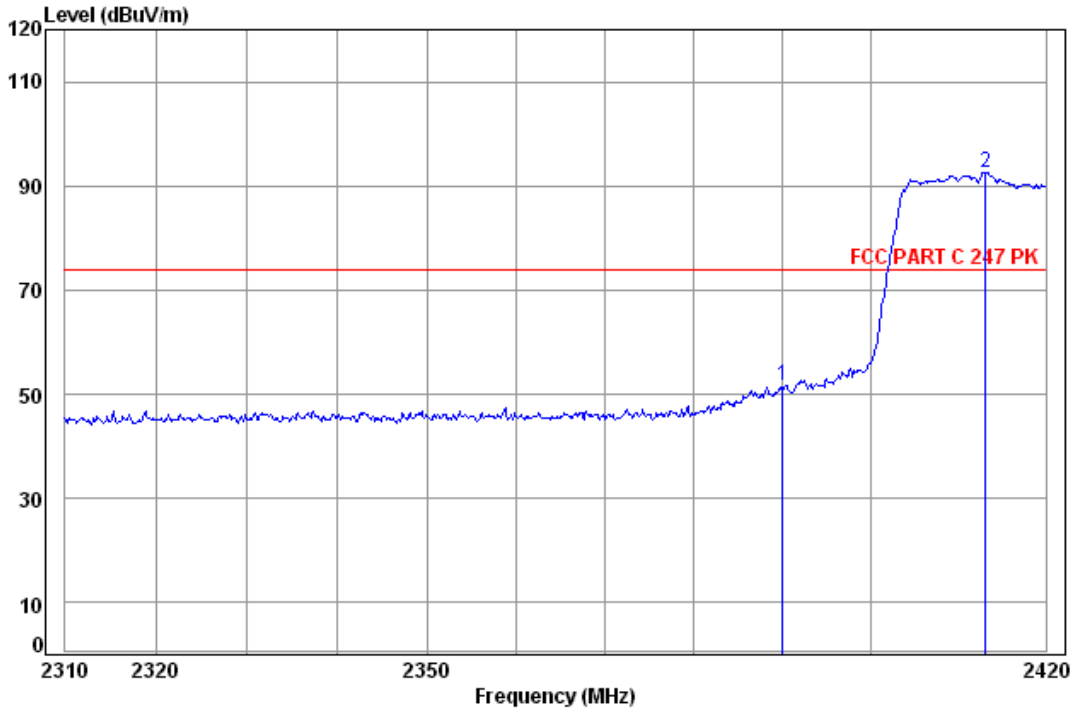
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	2390.00	4.90	32.35	38.46	58.52	57.31	74.00	-16.69
2	pp 2413.14	4.93	32.41	38.46	101.33	100.21	74.00	26.21

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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 556



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 5892CR
 Mode: : 2412 N20 Band edge

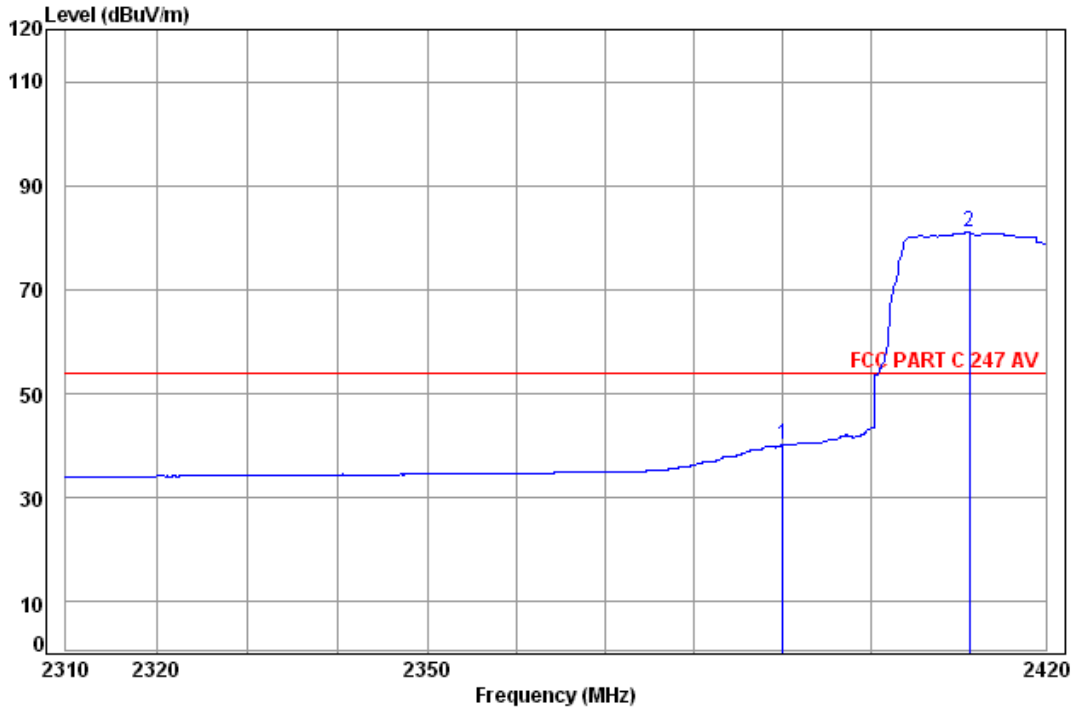
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	2390.00	4.90	32.35	38.46	52.88	51.67	74.00	-22.33
2	pp 2413.14	4.93	32.41	38.46	93.63	92.51	74.00	18.51

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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 559



Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical
 Job No: : 5892CR
 Mode: : 2412 N20 Band edge

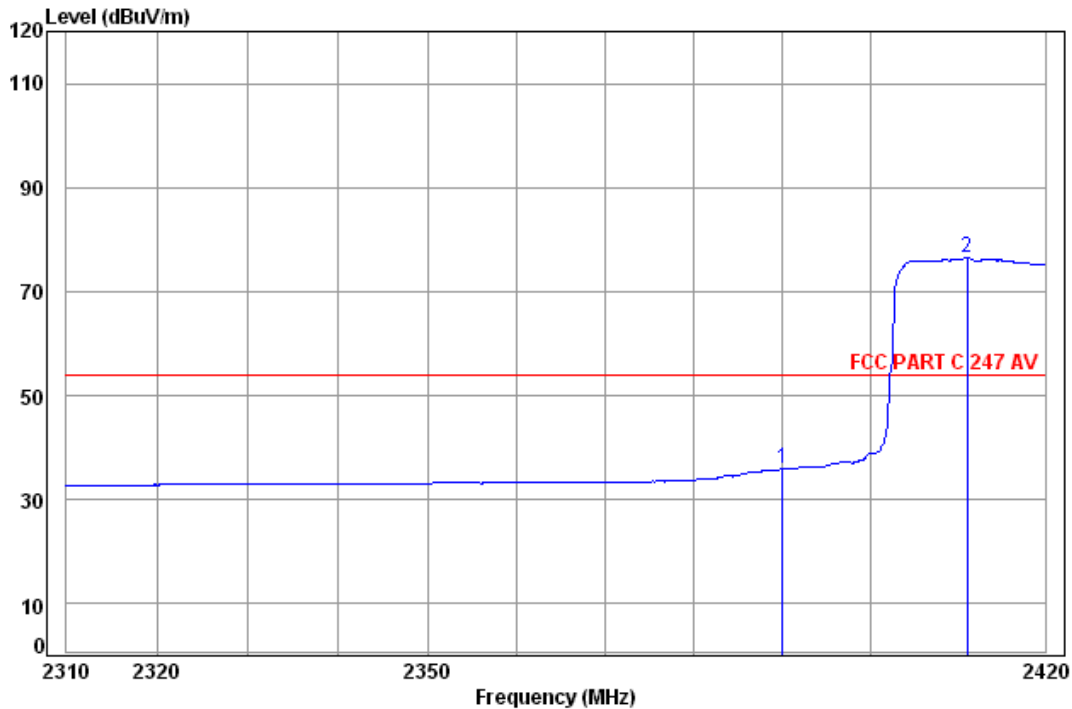
	Cable	Ant	Preamp	Read	Limit	Over			
Freq	Loss	Factor	Factor	Level	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2390.00	4.90	32.35	38.46	41.37	40.16	54.00	-13.84	
2	pp	2411.24	4.93	32.41	38.46	82.15	81.03	54.00	27.03

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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 557



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 5892CR
 Mode: : 2412 N20 Band edge

	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	2390.00	4.90	32.35	38.46	37.15	35.94	54.00	-18.06
2 pp	2411.01	4.93	32.41	38.46	77.57	76.45	54.00	22.45

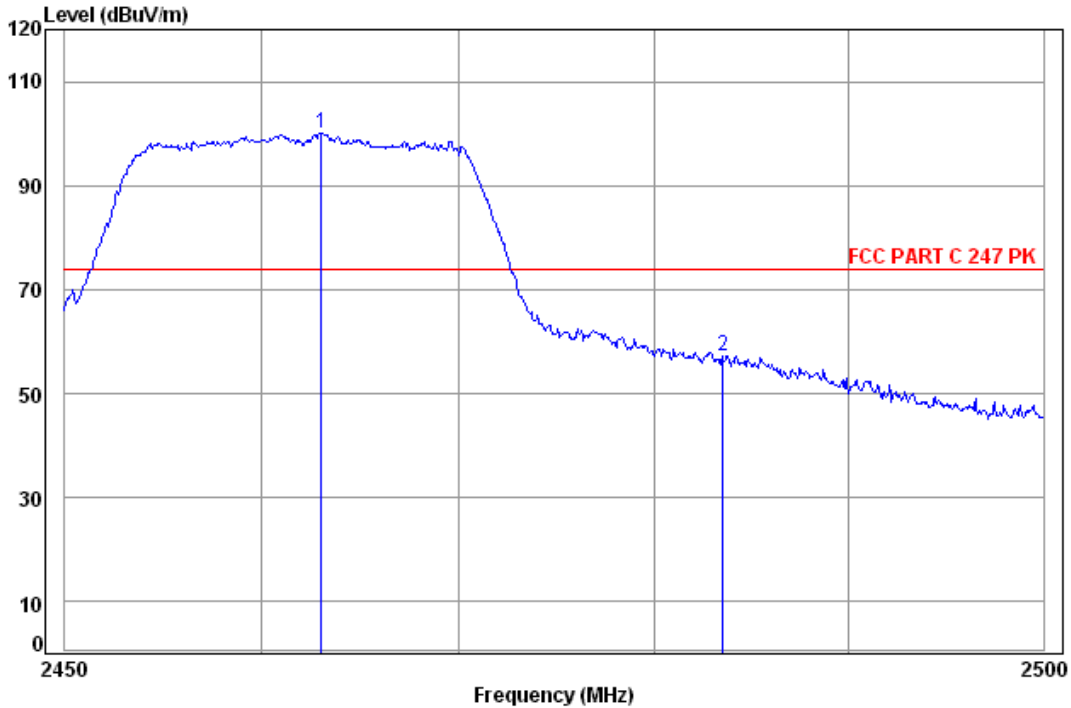


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 560



Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 5892CR
 Mode: : 2462 H20 Band edge

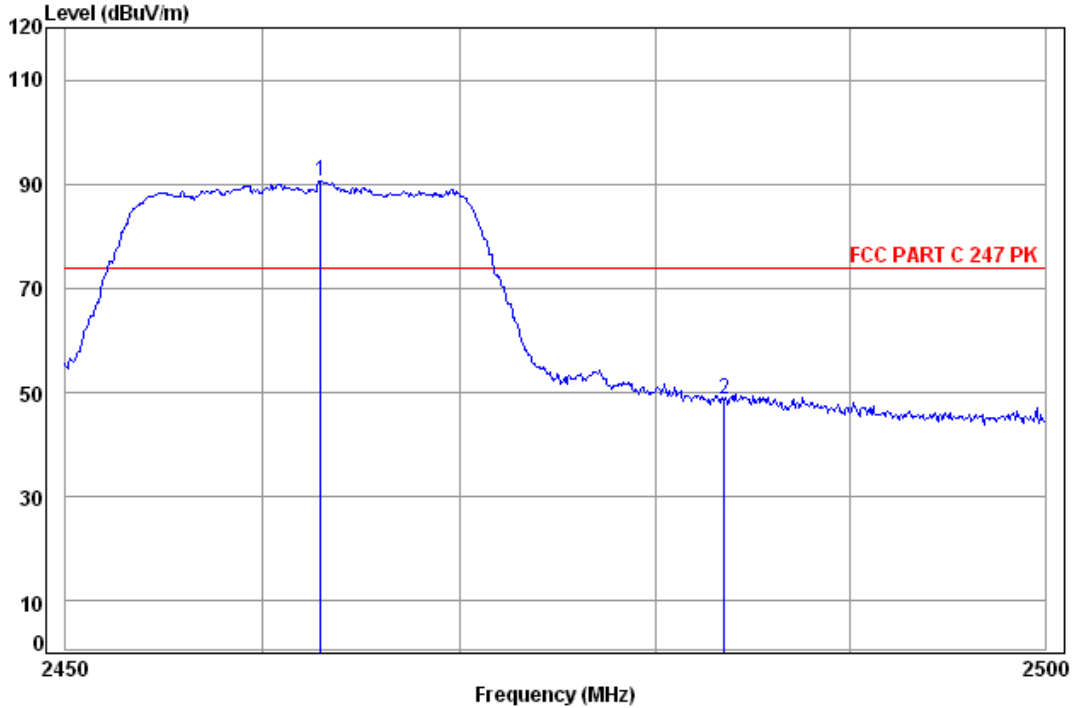
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	
1 pp 2463.00	5.00	32.43	38.46	101.22	100.19	74.00	26.19
2 2483.50	5.03	32.44	38.47	58.17	57.17	74.00	-16.83

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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Data: 562



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 5892CR
 Mode: : 2462 H20 Band edge

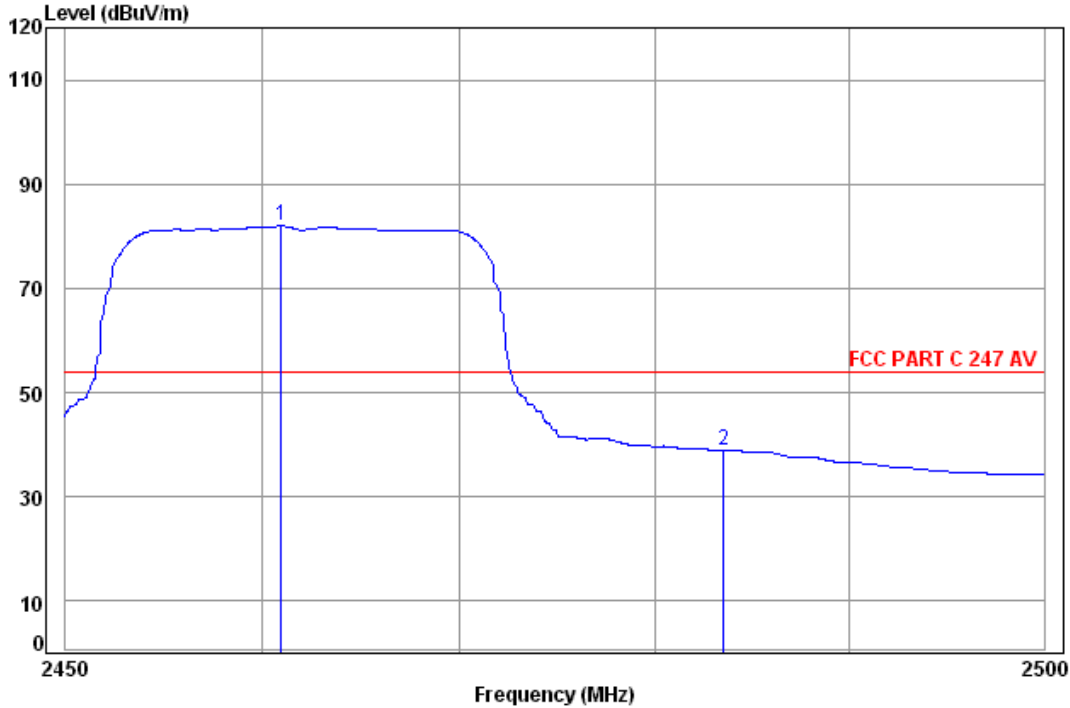
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2462.90	5.00	32.43	38.46	91.53	90.50	74.00	16.50
2 2483.50	5.03	32.44	38.47	49.85	48.85	74.00	-25.15

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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Vertical
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Data: 561



Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical
 Job No: : 5892CR
 Mode: : 2462 H20 Band edge

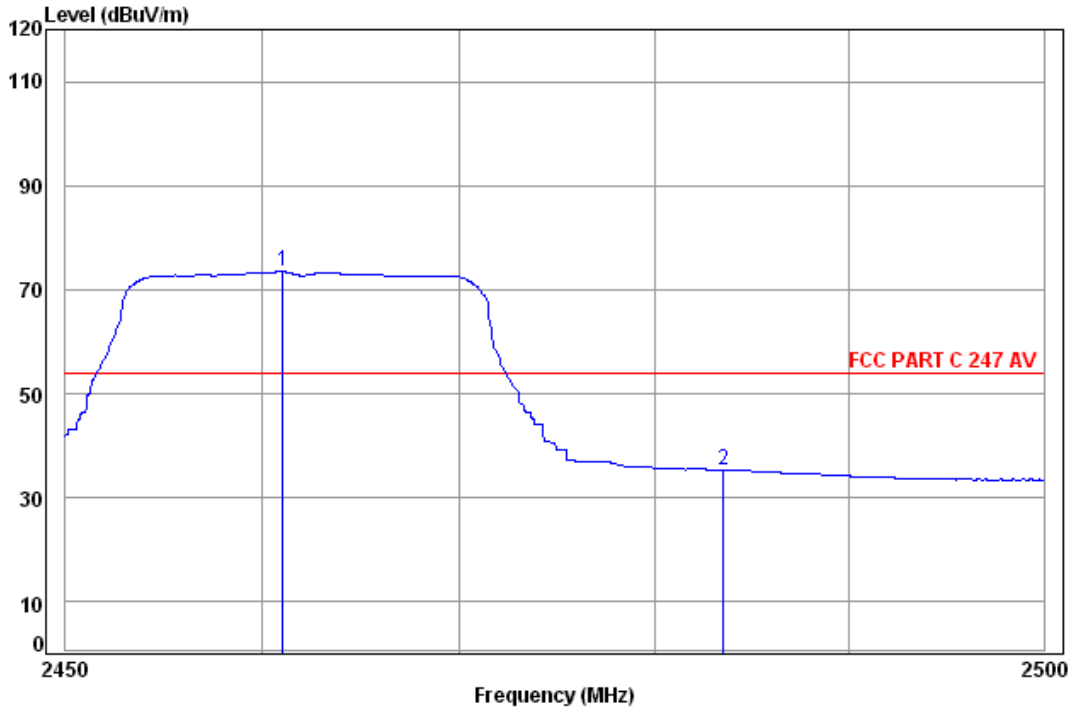
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Line	Limit	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2460.91	5.00	32.43	38.46	82.99	81.96	54.00	27.96
2 2483.50	5.03	32.44	38.47	39.80	38.80	54.00	-15.20

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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 563



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 5892CR
 Mode: : 2462 N20 Band edge

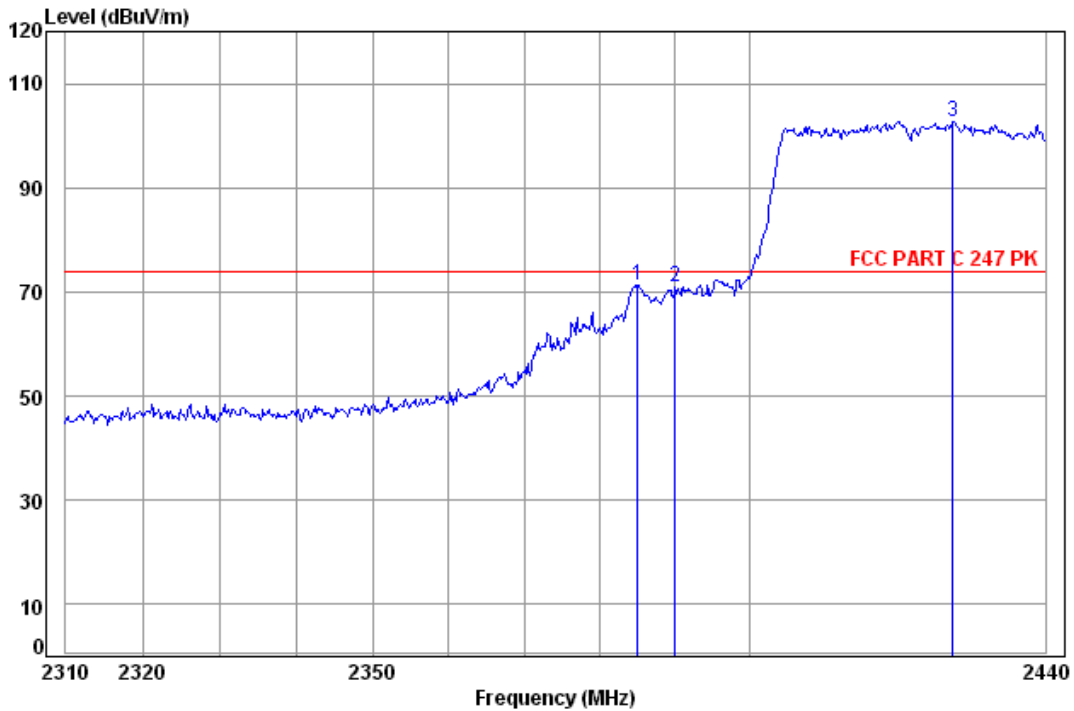
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2461.01	5.00	32.43	38.46	74.52	73.49	54.00	19.49
2	2483.50	5.03	32.44	38.47	36.28	35.28	54.00	-18.72

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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Data: 568



Site : chamber
Condition: FCC PART C 247 PK 3m Vertical
Job No: : 5892CR
Mode: : 2422 N40 Band edge

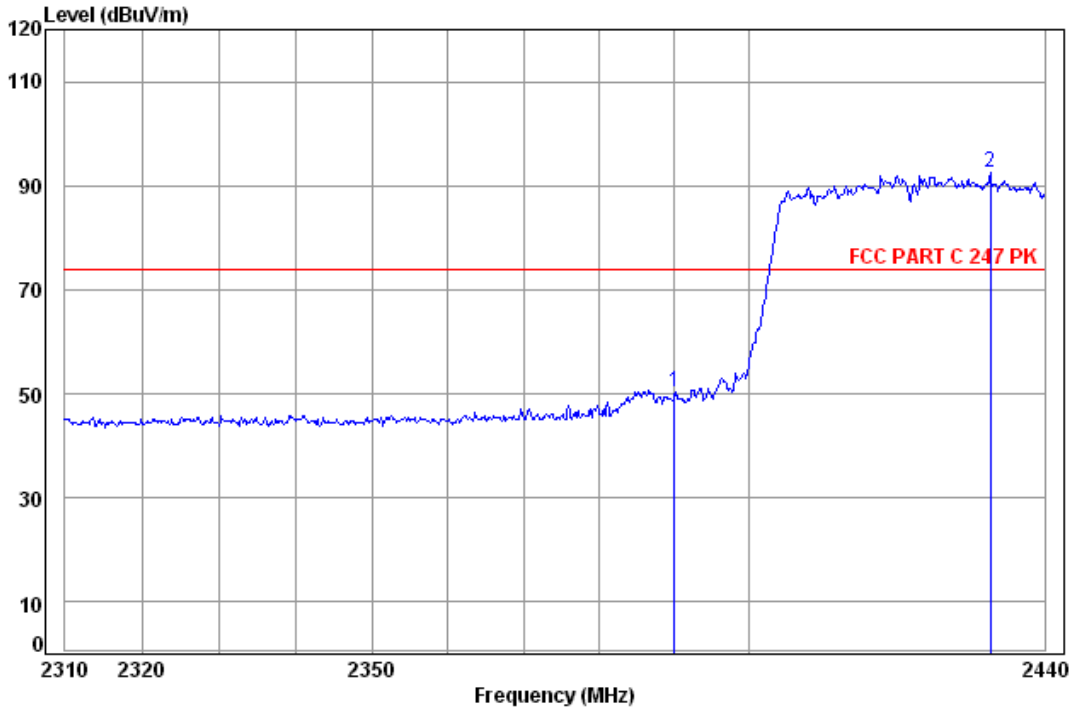
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2385.05	4.89	32.31	38.46	72.46	71.20	74.00	-2.80
2	2390.00	4.90	32.35	38.46	72.04	70.83	74.00	-3.17
3 pp	2427.48	4.95	32.42	38.46	103.79	102.70	74.00	28.70

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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Data: 570



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 5892CR
 Mode: : 2422 N40 Band edge

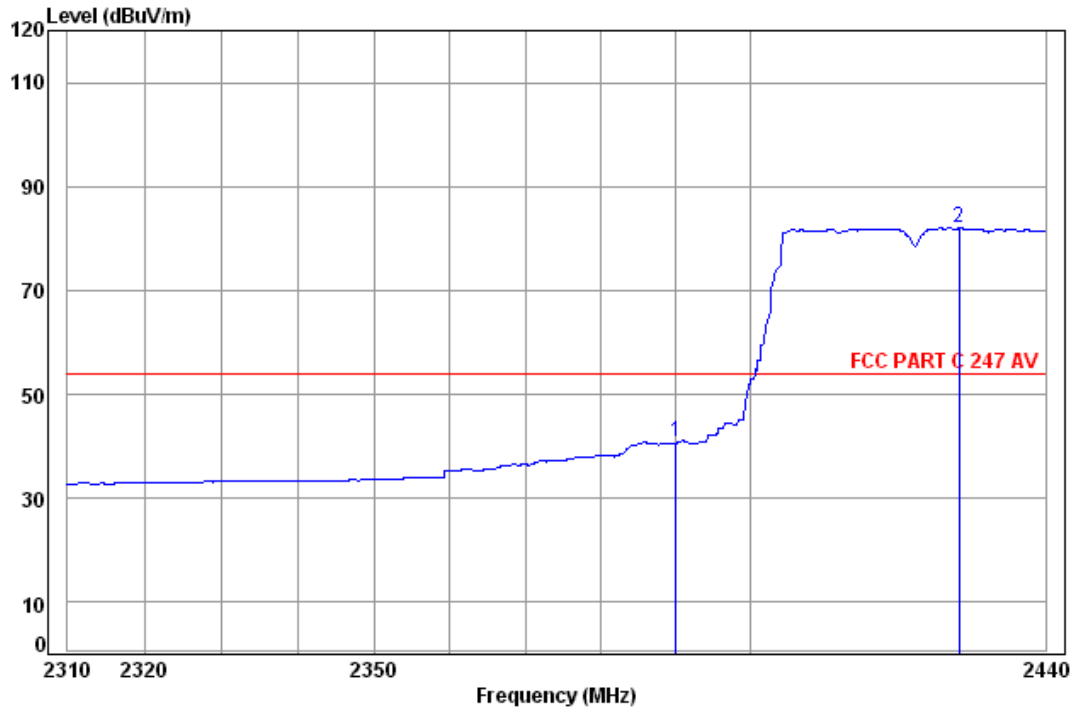
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	2390.00	4.90	32.35	38.46	51.41	50.20	74.00	-23.80
2	pp 2432.66	4.96	32.42	38.46	93.68	92.60	74.00	18.60

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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Vertical
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Data: 569



Site : chamber
 Condition: FCC PART C 247 AV 3m Vertical
 Job No: : 5892CR
 Mode: : 2422 N40 Band edge

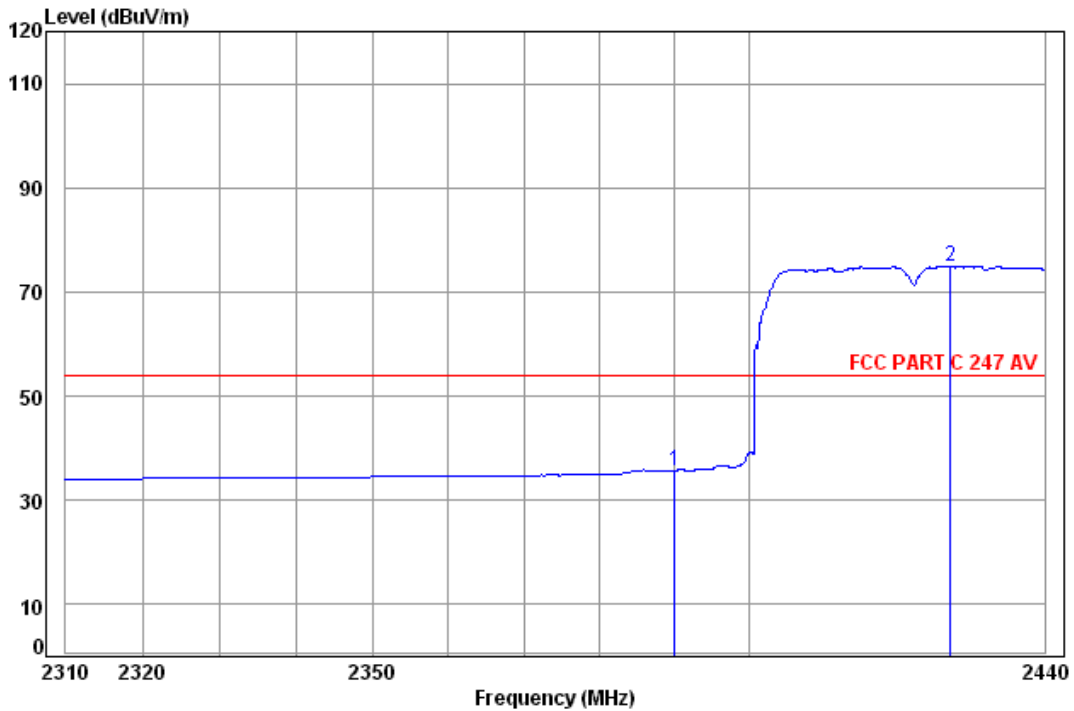
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	42.13	40.92	54.00	-13.08
2 pp	2428.27	4.95	32.42	38.46	83.09	82.00	54.00	28.00

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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Average	Horizontal
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Data: 571



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 5892CR
 Mode: : 2422 N40 Band edge

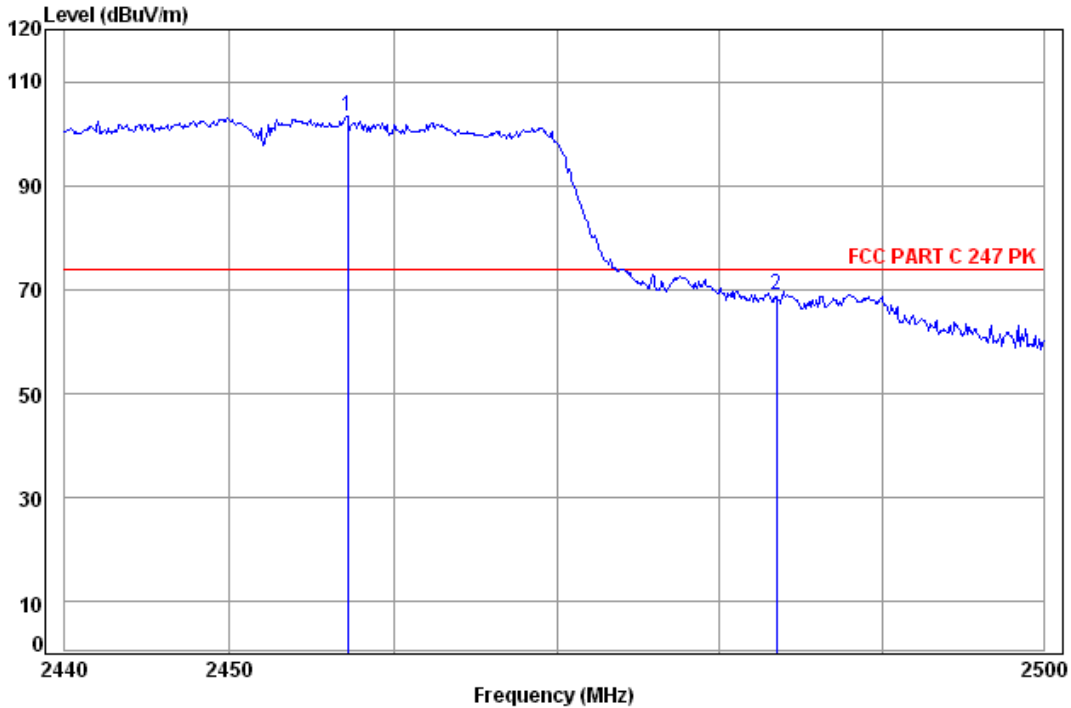
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.00	4.90	32.35	38.46	36.93	35.72	54.00	-18.28
2 pp	2427.21	4.95	32.42	38.46	76.06	74.97	54.00	20.97

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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Data: 566



Site : chamber
 Condition: FCC PART C 247 PK 3m Vertical
 Job No: : 5892CR
 Mode: : 2452 N40 Band edge

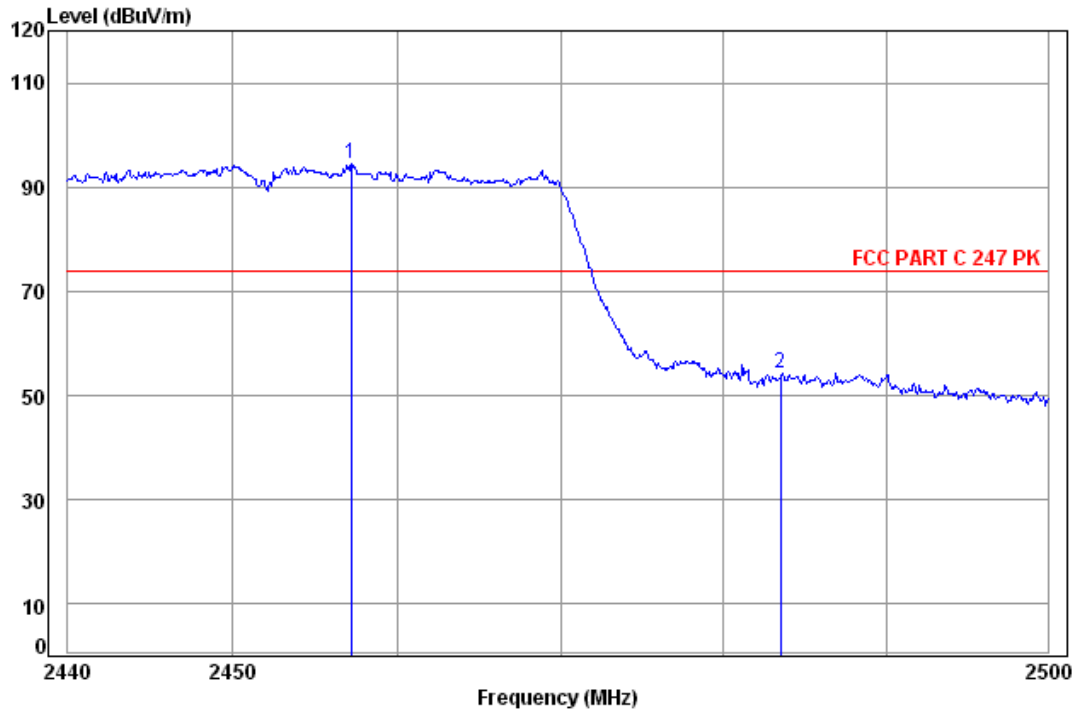
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1 pp	2457.19	4.99	32.43	38.46	104.44	103.40	74.00	29.40
2	2483.50	5.03	32.44	38.47	69.88	68.88	74.00	-5.12

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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Data: 564



Site : chamber
 Condition: FCC PART C 247 PK 3m Horizontal
 Job No: : 5892CR
 Mode: : 2452 N40 Band edge

	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 pp	2457.19	4.99	32.43	38.46	95.38	94.34	74.00	20.34
2	2483.50	5.03	32.44	38.47	55.23	54.23	74.00	-19.77

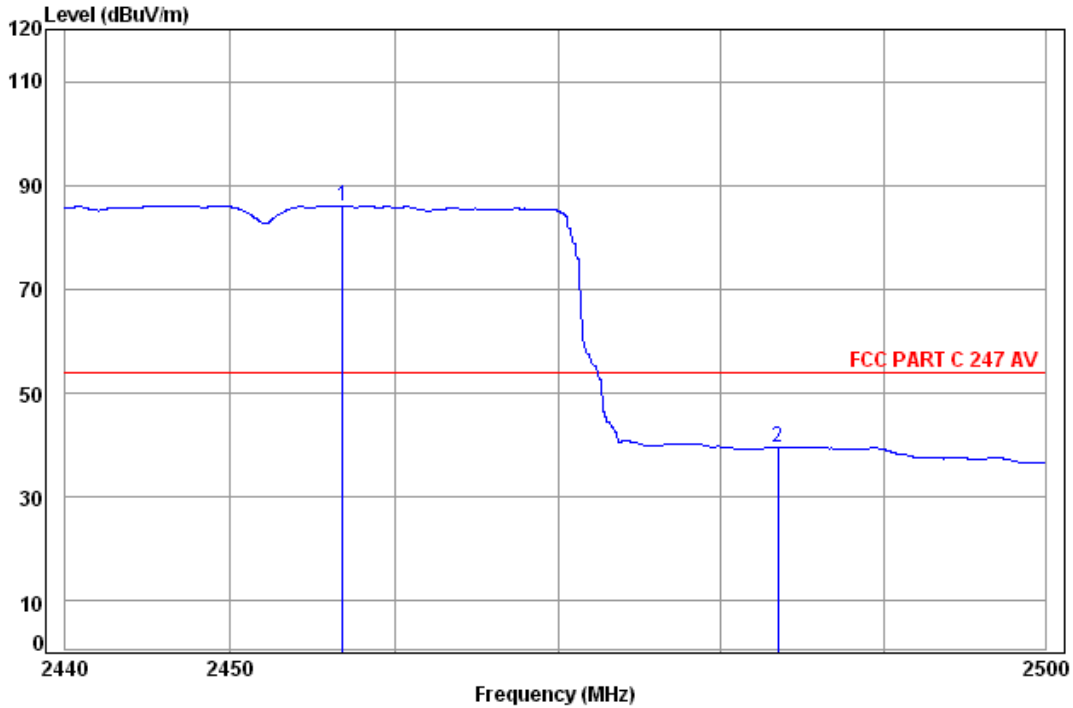


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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Vertical
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Data: 567



Site : chamber
Condition: FCC PART C 247 AV 3m Vertical
Job No: : 5892CR
Mode: : 2452 H40 Band edge

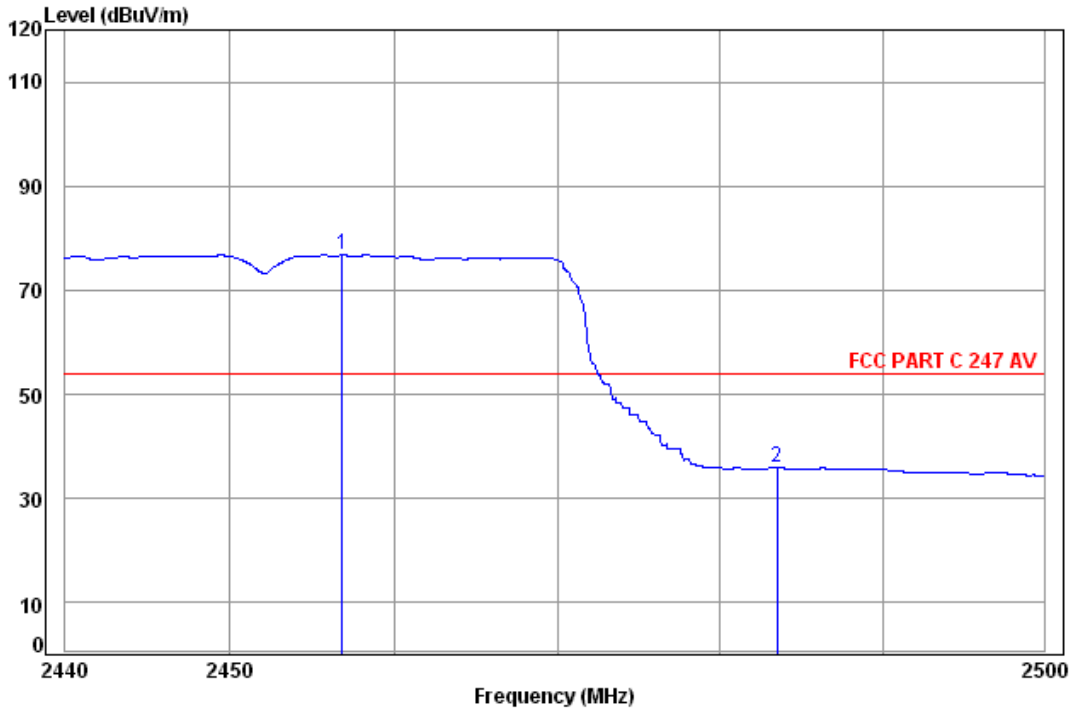
	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp 2456.83	4.99	32.43	38.46	87.14	86.10	54.00	32.10
2 2483.50	5.03	32.44	38.47	40.66	39.66	54.00	-14.34

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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Average	Horizontal
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Data: 565



Site : chamber
 Condition: FCC PART C 247 AV 3m Horizontal
 Job No: : 5892CR
 Mode: : 2452 N40 Band edge

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1 pp	2456.83	4.99	32.43	38.46	77.76	76.72	54.00	22.72
2	2483.50	5.03	32.44	38.47	36.91	35.91	54.00	-18.09

Note:

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

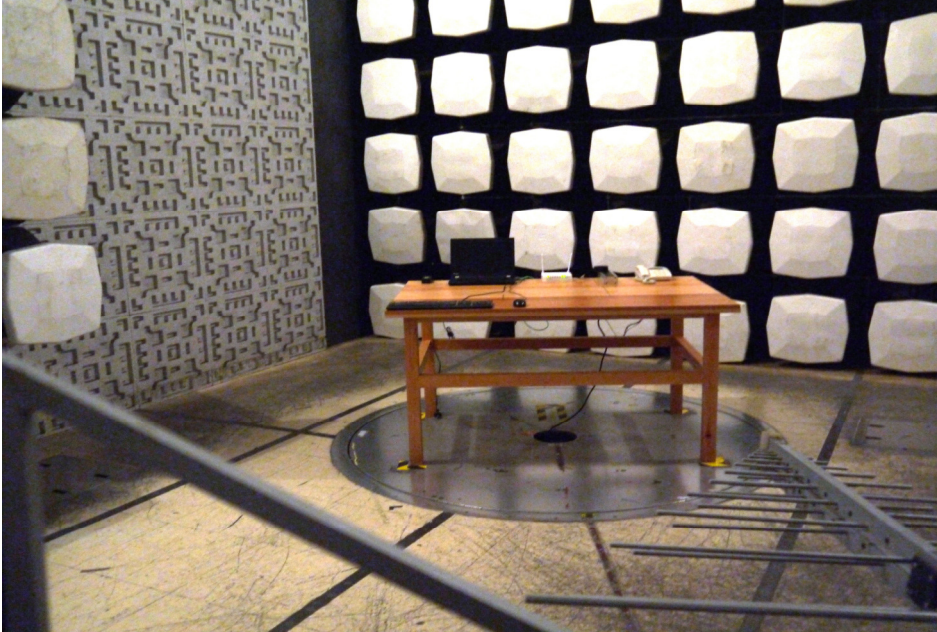
$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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7 Photographs - EUT Test Setup

Test model No.: G902P

7.1 Radiated Spurious Emission



7.2 Conducted Emission



8 Photographs - EUT Constructional Details

Please refer to the Attachment B.