



**SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch**

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Report No.: SZEM150600379603
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FCC REPORT

Application No: SZEM1506003796CR
Applicant: Polk Audio
Manufacturer: Polk Audio
Factory: Zhao Yang Electronic (ShenZhen) Co., Ltd.
Product Name: wireless all-in-one speaker system
Model No.(EUT): OMNI S6
Trade Mark: POLK
FCC ID: WLQOMNIS6
Standards: 47 CFR Part 15, Subpart E (2014)
Date of Receipt: 2015-07-31
Date of Test: 2015-08-03 to 2015-08-12
Date of Issue: 2015-08-13

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.


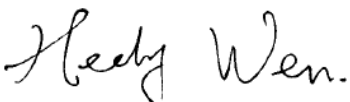
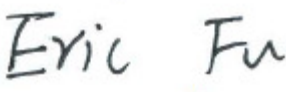
The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-08-13		Original

Authorized for issue by:				
Tested By		 (Owen Zhou) /Project Engineer		2015-08-12
				Date
Prepared By		 (Hedy Wen) /Clerk		2015-08-13
				Date
Checked By		 (Eric Fu) /Reviewer		2015-08-13
				Date



3 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15 Section 15.203	ANSI C63.10: 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Conducted Output Power	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
6dB Occupied Bandwidth	47 CFR Part 15 Section 15.407(e)	ANSI C63.10: 2013	PASS
26 dB Emission Bandwidth & 99% Occupied Bandwidth	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Power Spectral Density	47 CFR Part 15 Section 15.407(a)	ANSI C63.10: 2013	PASS
Radiated Spurious Emissions	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Restricted bands around fundamental frequency (Radiated Emission)	47 CFR Part 15 Section 15.407(b)	ANSI C63.10: 2013	PASS
Frequency Stability	47 CFR Part 15 Section 15.407(g)	ANSI C63.10: 2013	PASS



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5 General Information

5.1 Client Information

Applicant:	Polk Audio
Address of Applicant:	5601 Metro Drive Baltimore, Maryland, 21215, USA
Manufacturer:	Polk Audio
Address of Manufacturer:	5601 Metro Drive Baltimore, Maryland, 21215, USA
Factory:	Zhao Yang Electronic (ShenZhen) Co., Ltd.
Address of Factory:	Section A, 4th Floor, Building 1 & Building 2, De Yong Jia Industrial Park, Guang Qiao Road, Yu Lv Community, Gong Ming Street, Guang Ming New District, Shenzhen, Guangdong, P.R.C

5.2 General Description of EUT

Product Name:	wireless all-in-one speaker system			
Model No.:	OMNI S6			
Trade Mark:	POLK			
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	IEEE 802.11a	5180-5240	4
		IEEE 802.11n 20MHz	5180-5240	4
		IEEE 802.11n 40MHz	5190-5230	2
	UNII Band II-A	IEEE 802.11a	5260-5320	4
		IEEE 802.11n 20MHz	5260-5320	4
		IEEE 802.11n 40MHz	5270-5310	2
	UNII Band II-C	IEEE 802.11a	5500-5700	11
		IEEE 802.11n 20MHz	5500-5700	11
		IEEE 802.11n 40MHz	5510-5670	5
	UNII Band III	IEEE 802.11a	5745-5825	5
		IEEE 802.11n 20MHz	5745-5825	5
		IEEE 802.11n 40MHz	5755-5795	2
Type of Modulation:	IEEE 802.11a: OFDM(BPSK/QPSK/16QAM/64QAM) IEEE 802.11n: OFDM(BPSK/QPSK/16QAM/64QAM)			
Sample Type:	Fixed production			
Test Power Grade:	802.11a :13 dBm@54Mbps; 802.11n20(5G) :11 dBm@MCS7; 802.11n40(5G) :11 dBm@MCS7 (manufacturer declare)			
Test Software of EUT:	teraterm.exe (manufacturer declare)			
Antenna Type:	Integral			
Antenna Gain:	3.92dBi			
Antenna Delivery:	1TX+1RX			



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Power Supply:	AC 100-240V 50/60Hz
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Note:

In FCC 15.31, for each band in which the device can be operated with the device operating at the number of frequencies in each band specified in the following table, and the selected channel to perform the test as below:

Frequency Range of Operation Operating Frequency Range (in each Band)	Number of Measurement Frequencies Required	Location of Measurement Frequency in Band of Operation
1 MHz or less	1	centre
1 MHz to 10 MHz	2	1 near high end, 1 near low end
Greater than 10 MHz	3	1 near high end, 1 near centre

For UNII Band I:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 20MHz	The Lowest channel	5180
	The Middle channel	5200
	The Highest channel	5240
IEEE 802.11n 40MHz	The Lowest channel	5190
	The Highest channel	5230

For UNII Band II-A:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 20MHz	The Lowest channel	5260
	The Middle channel	5300
	The Highest channel	5320
IEEE 802.11n 40MHz	The Lowest channel	5270
	The Highest channel	5310

For UNII Band II-C:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 20MHz	The Lowest channel	5500
	The Middle channel	5600
	The Highest channel	5700
IEEE 802.11n 40MHz	The Lowest channel	5510
	The Middle channel	5590
	The Highest channel	5670

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For UNII Band III:

Mode	Channel	Frequency(MHz)
IEEE 802.11a/n 20MHz	The Lowest channel	5745
	The Middle channel	5785
	The Highest channel	5825
IEEE 802.11n 40MHz	The Lowest channel	5755
	The Highest channel	5795

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5.3 Test Environment and Mode

Operating Environment:	
Temperature:	24.0 °C
Humidity:	52 % RH
Atmospheric Pressure:	1005 mbar
Test mode:	
Transmitting mode	Keep the EUT in transmitting mode with all kind of modulation and all kind of data rate.

5.4 Description of Support Units

The EUT has been tested independent unit.

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-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	2016-05-13
2	LISN	Rohde & Schwarz	ENV216	SEL0152	2015-10-24
3	LISN	ETS-LINDGREN	3816/2	SEL0021	2016-05-13
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	2016-05-13
8	Coaxial Cable	SGS	N/A	SEL0025	2016-05-13
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	2016-05-13



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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-40 GHz)	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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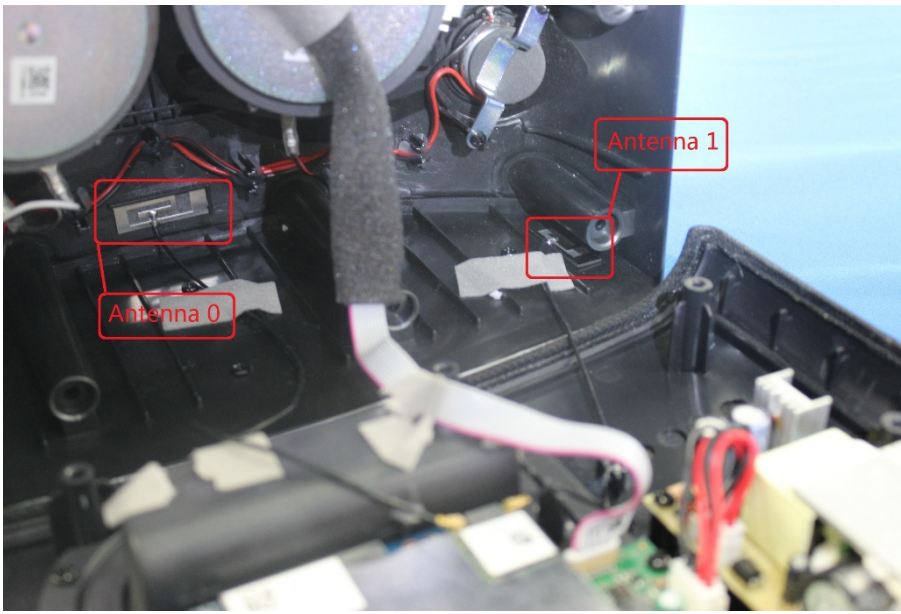
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RF connected test					
Item	Test Equipment	Manufacturer	Model No.	Inventory No.	Cal.Due date (yyyy-mm-dd)
1	DC Power Supply	Zhao Xin	RXN-305D	SEL0117	2015-10-24
2	Humidity/ Temperature Indicator	HYGRO	ZJ1-2B	SEL0033	2015-10-24
3	Spectrum Analyzer	Rohde & Schwarz	FSP	SEL0154	2015-10-24
4	Coaxial cable	SGS	N/A	SEL0178	2016-05-13
5	Coaxial cable	SGS	N/A	SEL0179	2016-05-13
6	Barometer	ChangChun	DYM3	SEL0088	2016-05-13
7	Signal Generator	Rohde & Schwarz	SML03	SEL0068	2016-04-25
8	Band filter	amideon	82346	SEL0094	2016-05-13
9	POWER METER	R & S	NRVS	SEL0144	2015-10-24
10	Attenuator	Beijin feihang taida	TST-2-6dB	SEL0205	2016-04-25
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

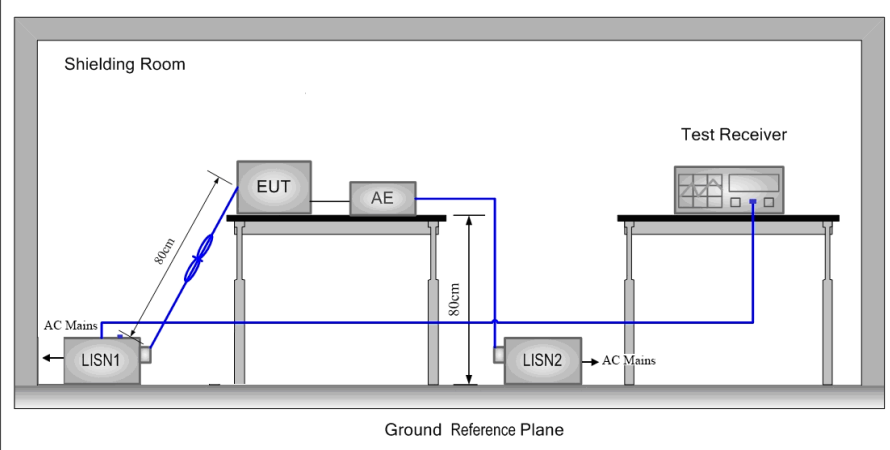
6.1 Antenna Requirement

Test Requirement:	47 CFR Part 15 Section 15.203
EUT Antenna:	
<p>The antenna is integrated antenna and no consideration of replacement. The best case gain of the antenna is 3.92dBi. It support operations in 1X1 diversity , 1 X1 SISO configurations and Single-stream legacy modes .</p>	



6.2 Conducted Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
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 $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		

Test Setup:	
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates at lowest, middle and highest channel.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate of 802.11a 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



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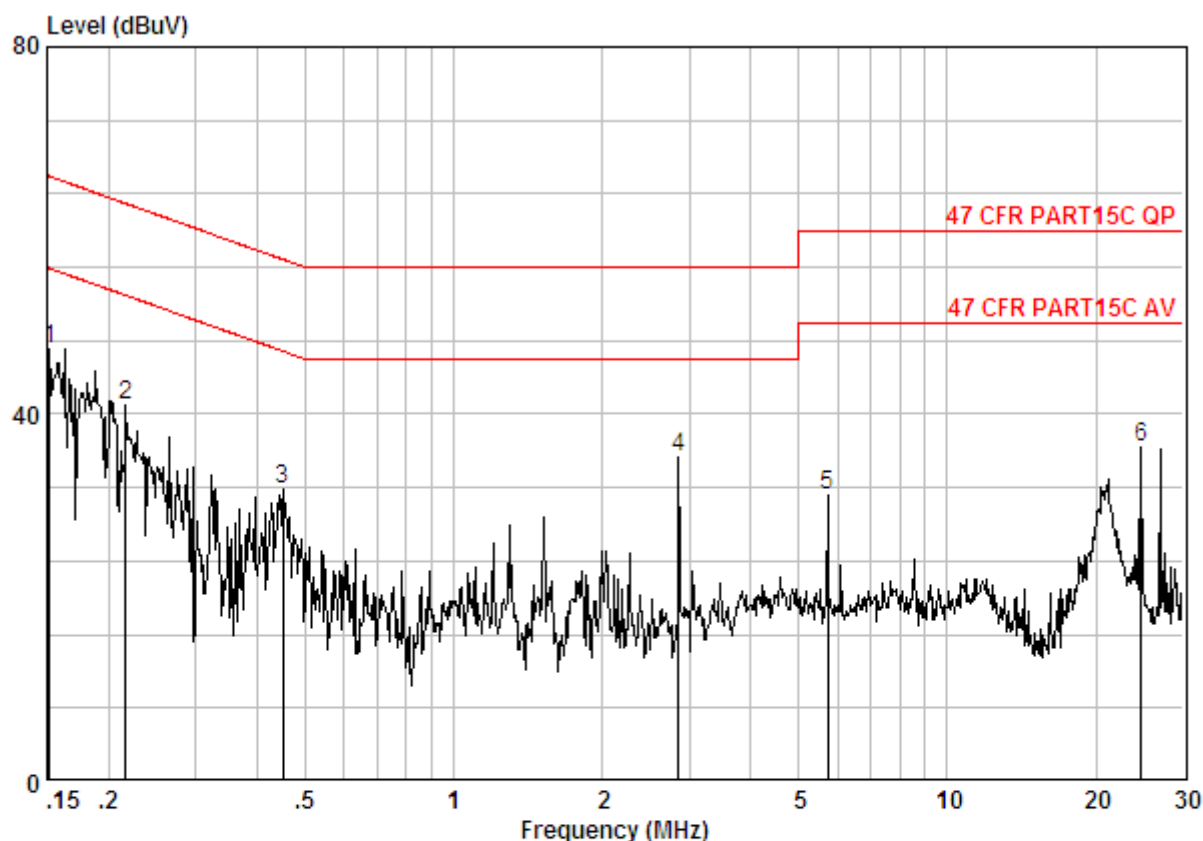
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Measurement Data

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

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

Live Line:



Site : Shielding Room
Condition : 47 CFR PART15C AV CE LINE
Job No. : 3796CR
Test Mode : TX

	Freq	Cable	LISN	Read	Limit	Over	
	MHz	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB
1	0.15160	0.02	9.82	37.33	47.17	55.91	-8.74 Peak
2	0.21620	0.02	9.83	31.08	40.93	52.96	-12.03 Peak
3	0.45155	0.01	9.86	21.95	31.82	46.85	-15.03 Peak
4	2.854	0.02	10.02	25.20	35.24	46.00	-10.76 Peak
5	5.713	0.01	10.13	21.02	31.16	50.00	-18.84 Peak
6	24.659	0.02	9.89	26.57	36.49	50.00	-13.51 Peak

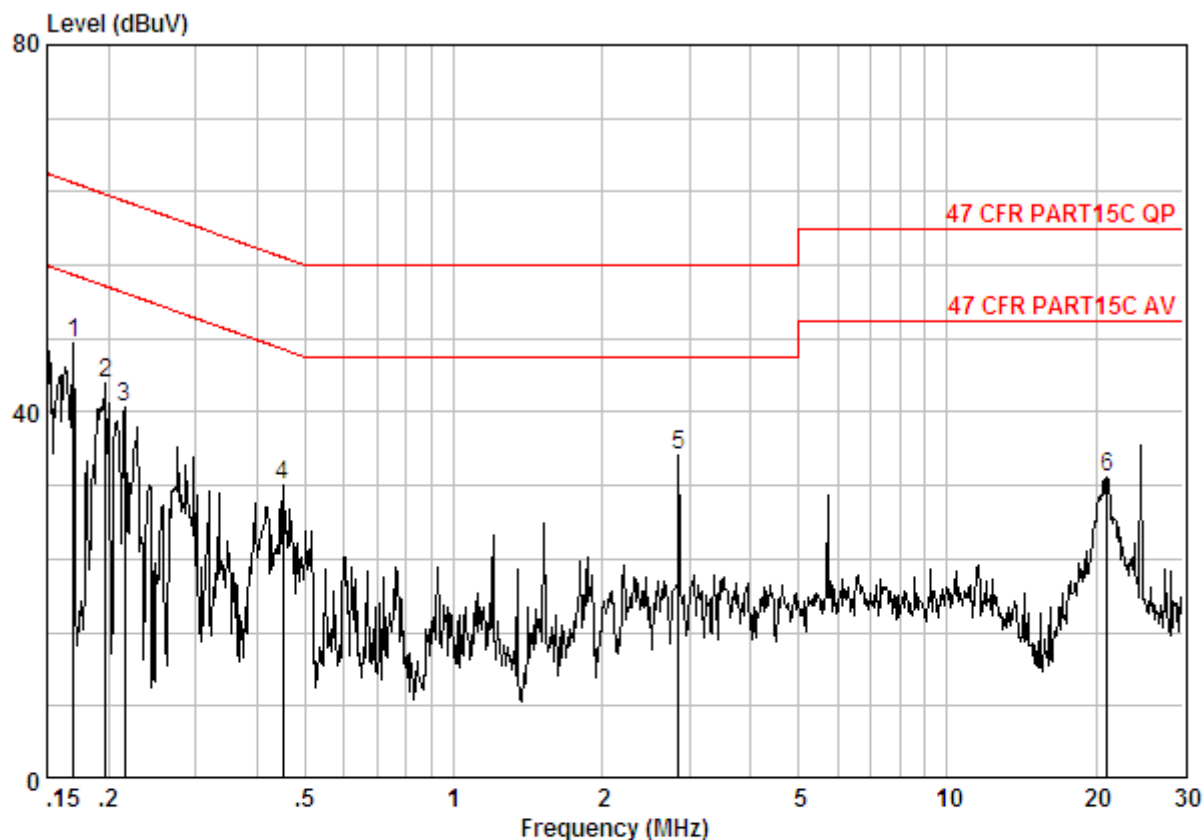
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Neutral Line:



Site : Shielding Room
Condition : 47 CFR PART15C AV CE NEUTRAL
Job No. : 3796CR
Test Mode : TX

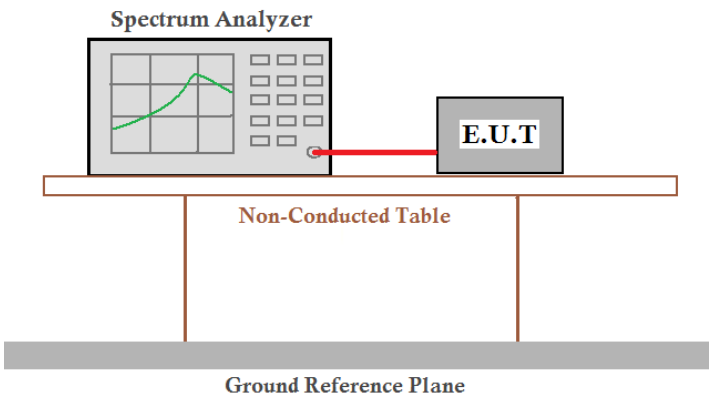
	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1 @	0.16944	0.02	9.81	37.76	47.59	54.99	-7.39	Peak
2	0.19758	0.02	9.85	33.23	43.10	53.71	-10.61	Peak
3	0.21506	0.02	9.85	30.77	40.64	53.01	-12.37	Peak
4	0.45155	0.01	9.88	22.15	32.04	46.85	-14.80	Peak
5	2.854	0.02	10.12	25.06	35.21	46.00	-10.79	Peak
6	21.035	0.02	10.41	22.47	32.91	50.00	-17.09	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.



6.3 Conducted Output Power

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
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 6Mbps of rate is the worst case of 802.11a; MCSO of rate is the worst case of 802.11n(HT20); MCSO of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report. Pre-scan was performed at Antenna 0 and Antenna 1, no worst case was found. Only the test data of Antenna 0 was shown in this report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	Not exceed 250mW(24dBm)
	5250-5350MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5470-5725MHz	The lesser of 250mW(24dBm) or $11 + 10\log B$
	5725-5850MHz	Not exceed 1W(30dBm)
	*Where B is the 26dB emission bandwidth in MHz	
Test Results:	Pass	





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Measurement Data:

802.11a mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5180	13.21	24.00	Pass
5200	12.82	24.00	Pass
5240	12.76	24.00	Pass
5260	13.05	24.00	Pass
5300	12.98	24.00	Pass
5320	13.30	24.00	Pass
5500	12.13	24.00	Pass
5600	12.02	24.00	Pass
5700	11.96	24.00	Pass
5745	13.72	30.00	Pass
5785	13.84	30.00	Pass
5825	13.57	30.00	Pass

802.11n(HT20) mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5180	10.77	24.00	Pass
5200	10.45	24.00	Pass
5240	10.08	24.00	Pass
5260	10.61	24.00	Pass
5300	10.83	24.00	Pass
5320	10.77	24.00	Pass
5500	9.98	24.00	Pass
5600	9.91	24.00	Pass
5700	9.83	24.00	Pass
5745	11.36	30.00	Pass
5785	11.71	30.00	Pass
5825	12.43	30.00	Pass

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802.11n(HT40) mode			
Frequency (MHz)	Conducted Output Power (dBm)	Limit (dBm)	Result
5190	10.81	24.00	Pass
5230	10.50	24.00	Pass
5270	10.40	24.00	Pass
5310	10.88	24.00	Pass
5510	9.62	24.00	Pass
5590	9.33	30.00	Pass
5670	9.58	30.00	Pass
5755	11.50	24.00	Pass
5795	11.39	24.00	Pass

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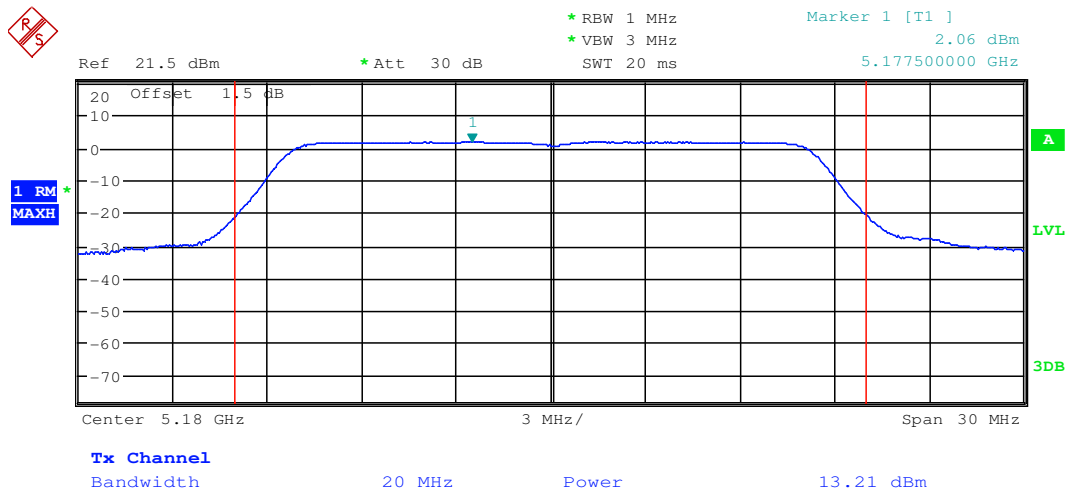


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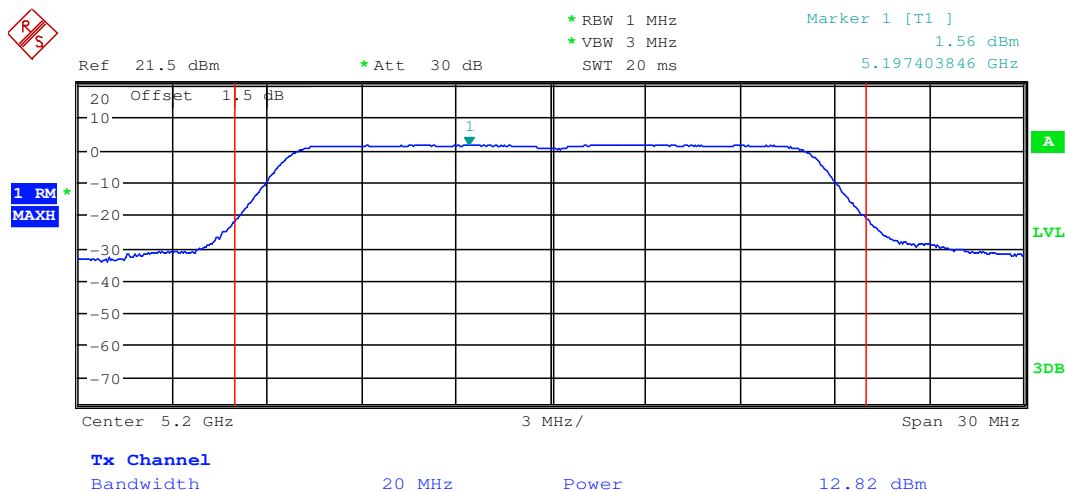
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Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
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Test mode:	802.11a	Frequency(MHz):	5200
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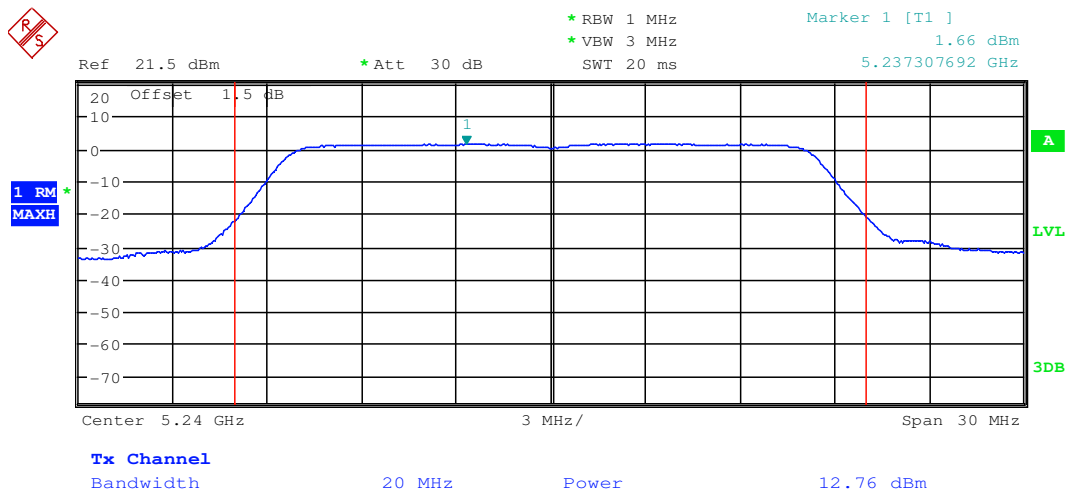


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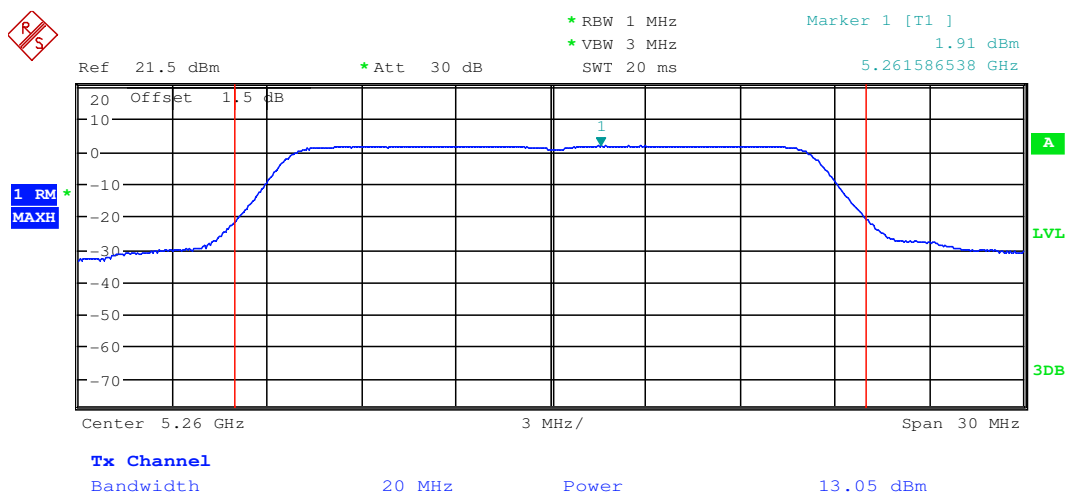
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Test mode:	802.11a	Frequency(MHz):	5240
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Test mode:	802.11a	Frequency(MHz):	5260
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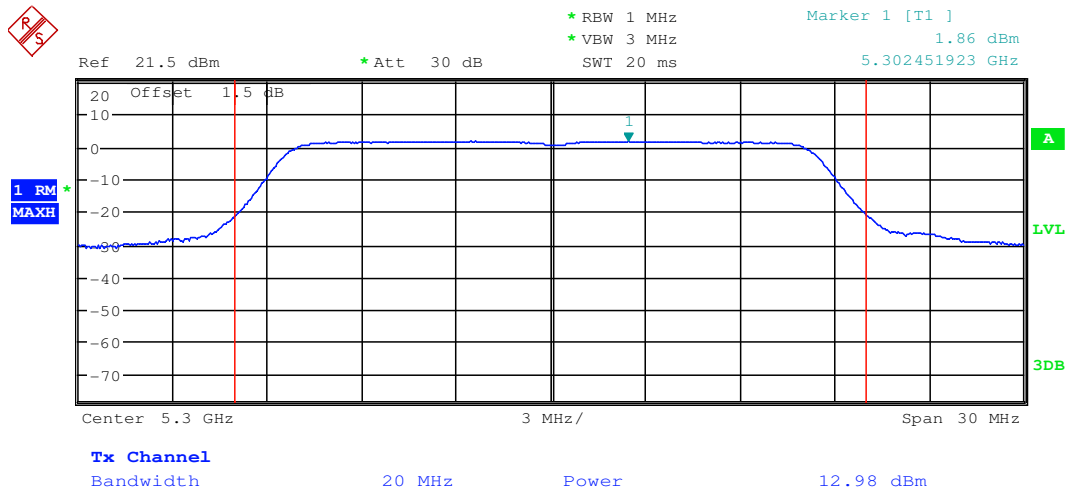
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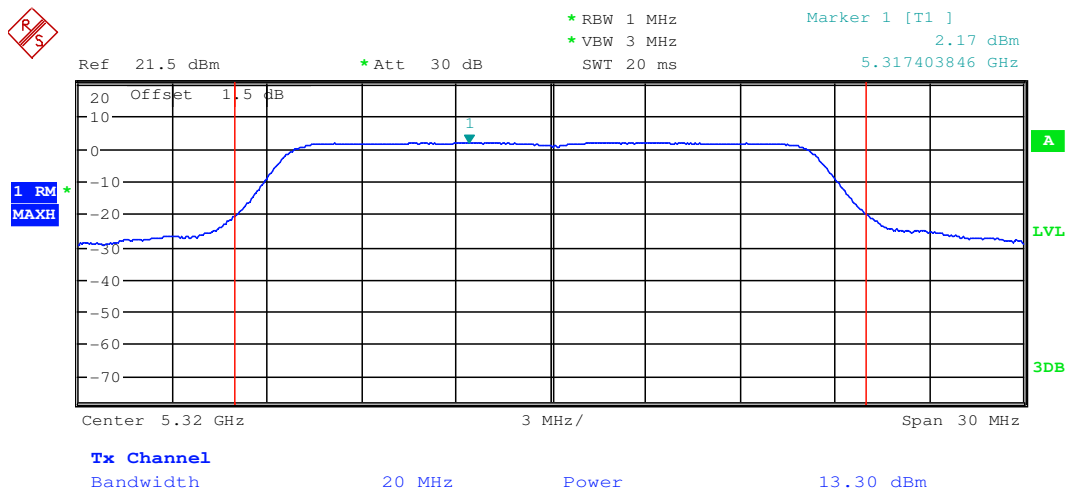
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Test mode:	802.11a	Frequency(MHz):	5300
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Test mode:	802.11a	Frequency(MHz):	5320
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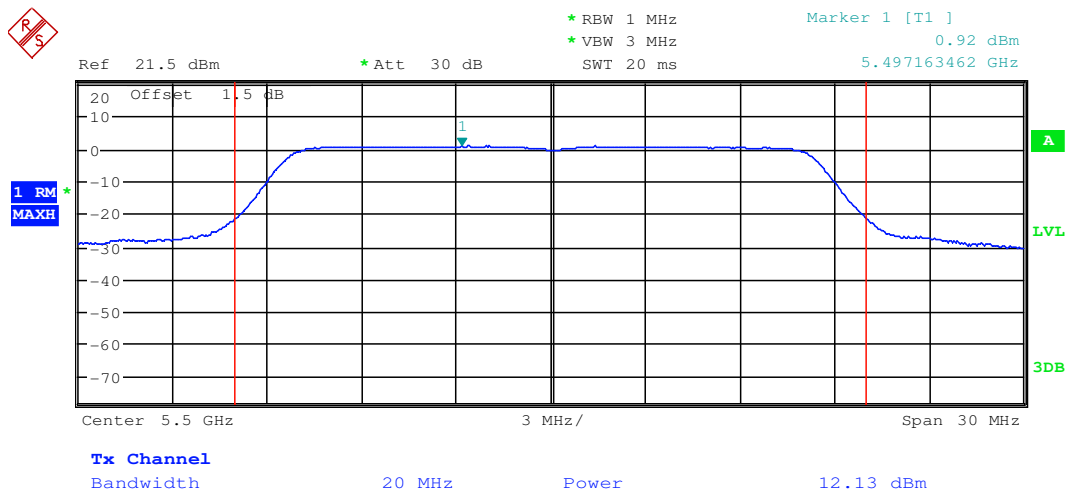


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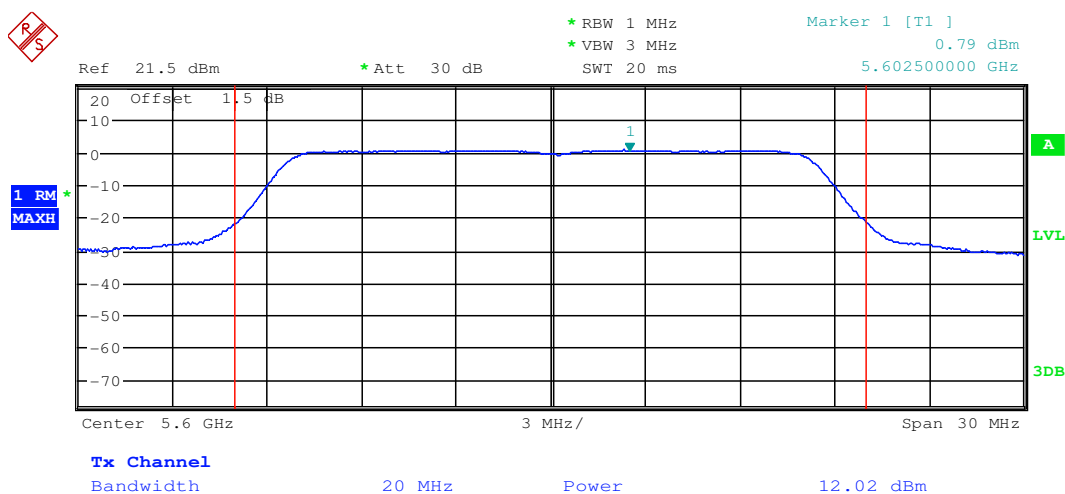
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Test mode:	802.11a	Frequency(MHz):	5500
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Test mode:	802.11a	Frequency(MHz):	5600
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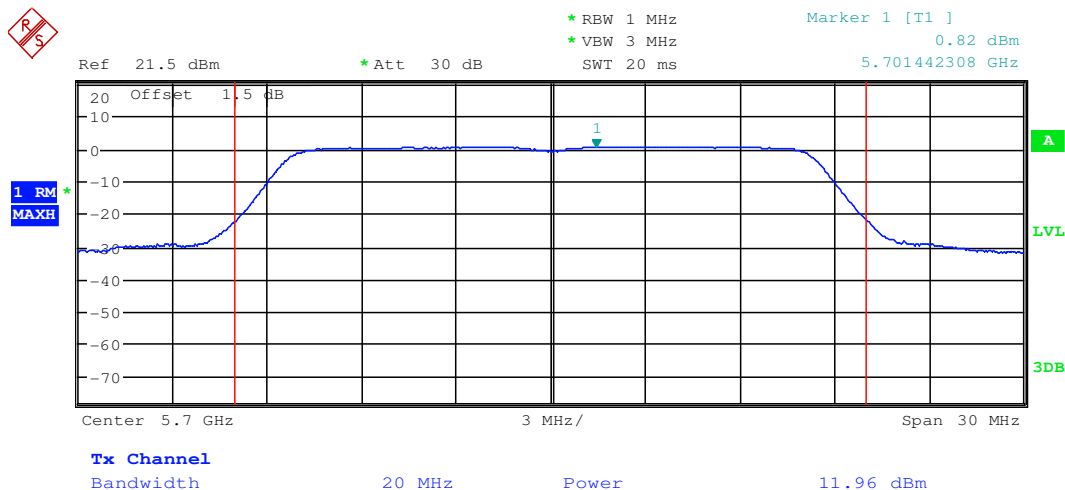


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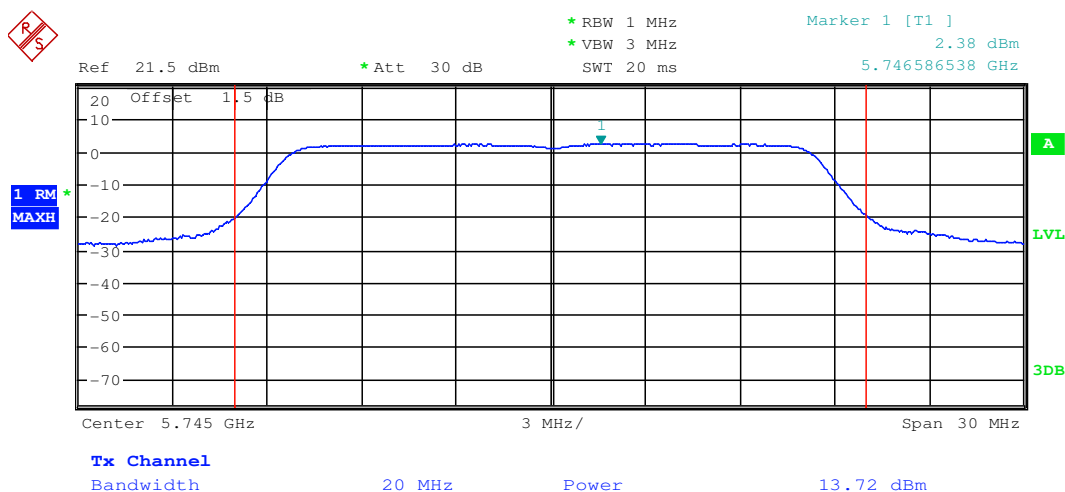
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Test mode:	802.11a	Frequency(MHz):	5700
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Test mode:	802.11a	Frequency(MHz):	5745
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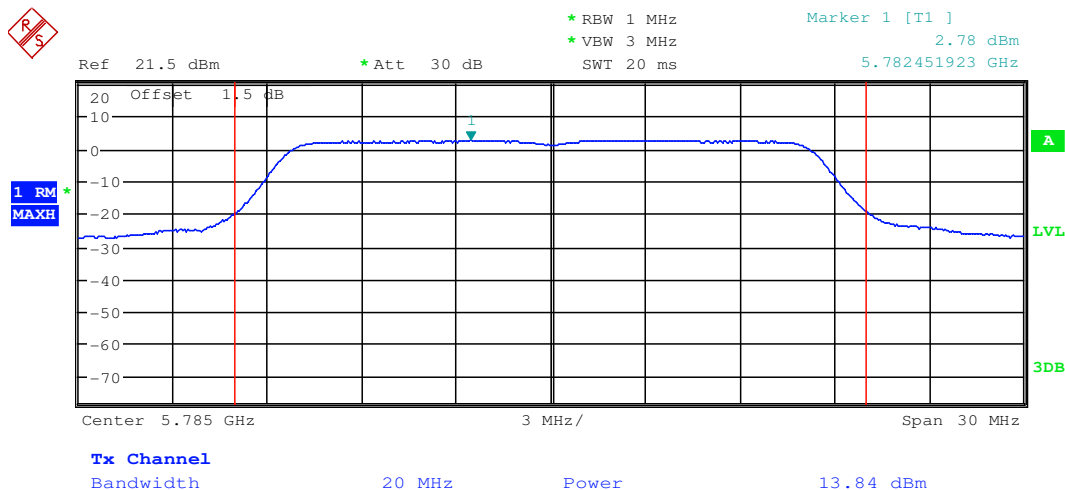
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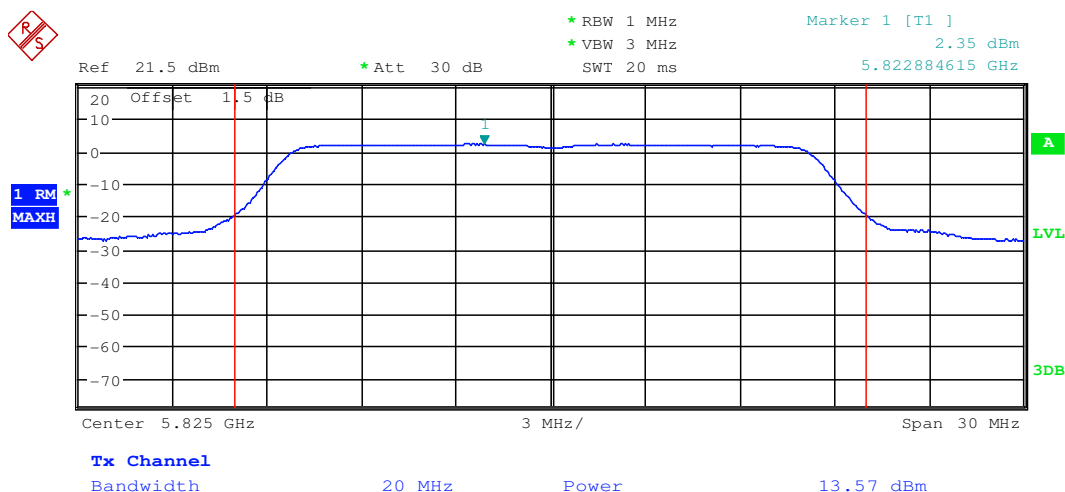
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Test mode:	802.11a	Frequency(MHz):	5785
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Test mode:	802.11a	Frequency(MHz):	5825
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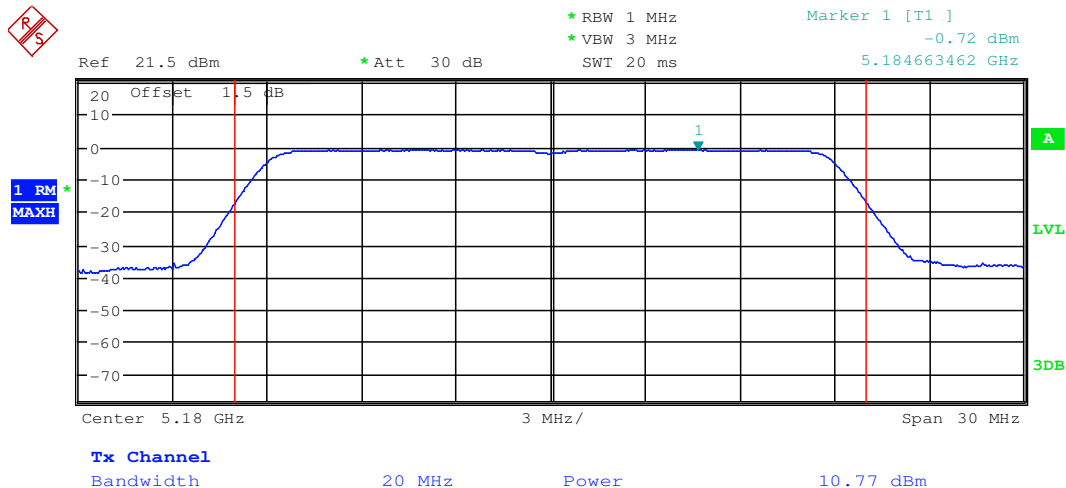
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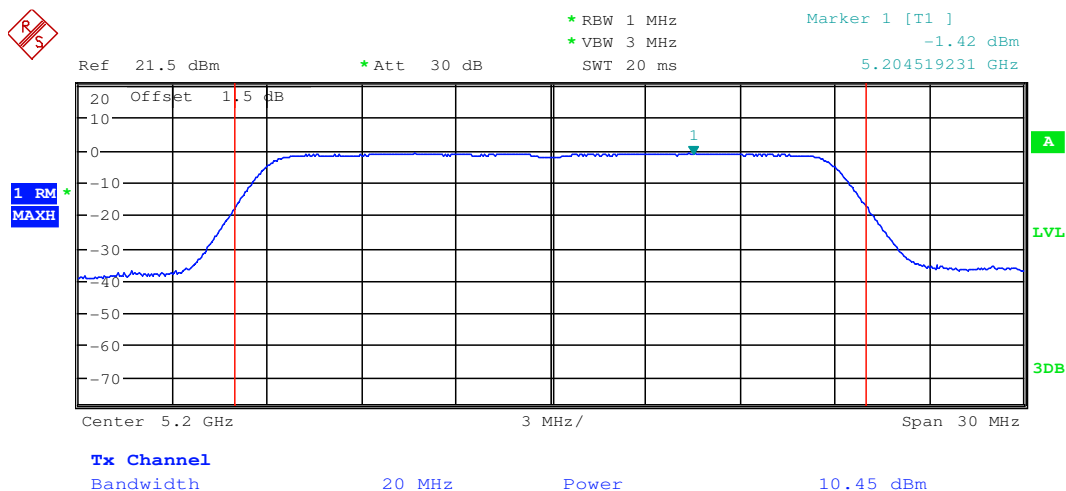
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Test mode:	802.11n(HT20)	Frequency(MHz):	5180
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Test mode:	802.11n(HT20)	Frequency(MHz):	5200
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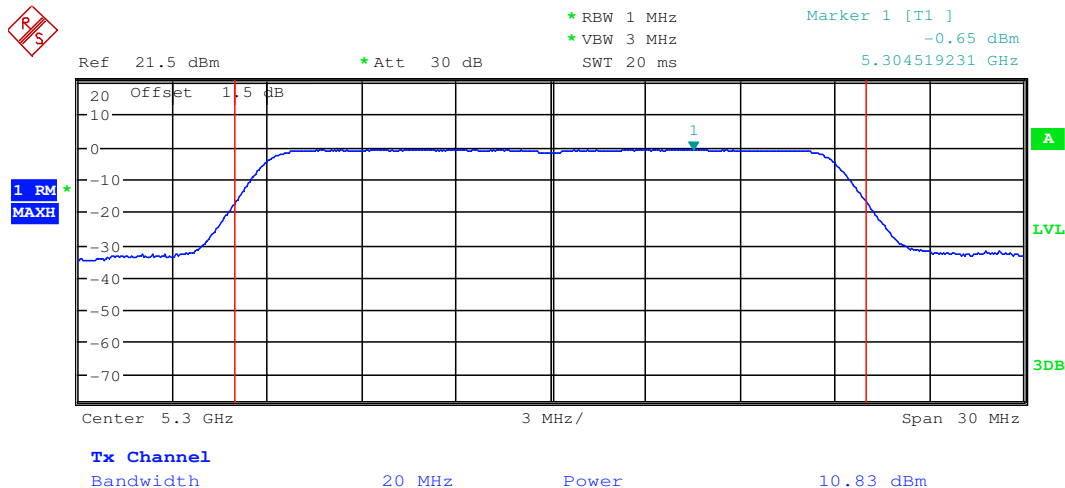
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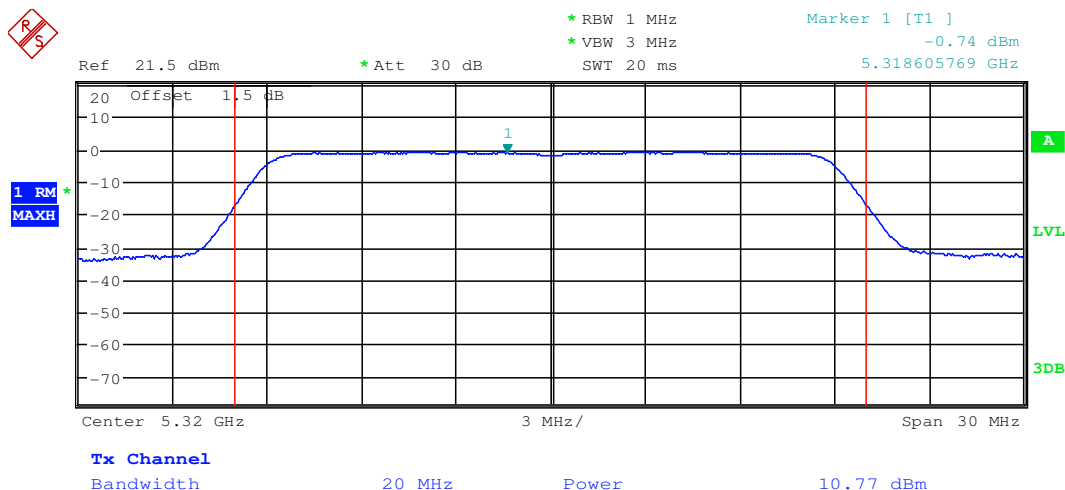
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Test mode:	802.11n(HT20)	Frequency(MHz):	5300
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Test mode:	802.11n(HT20)	Frequency(MHz):	5320
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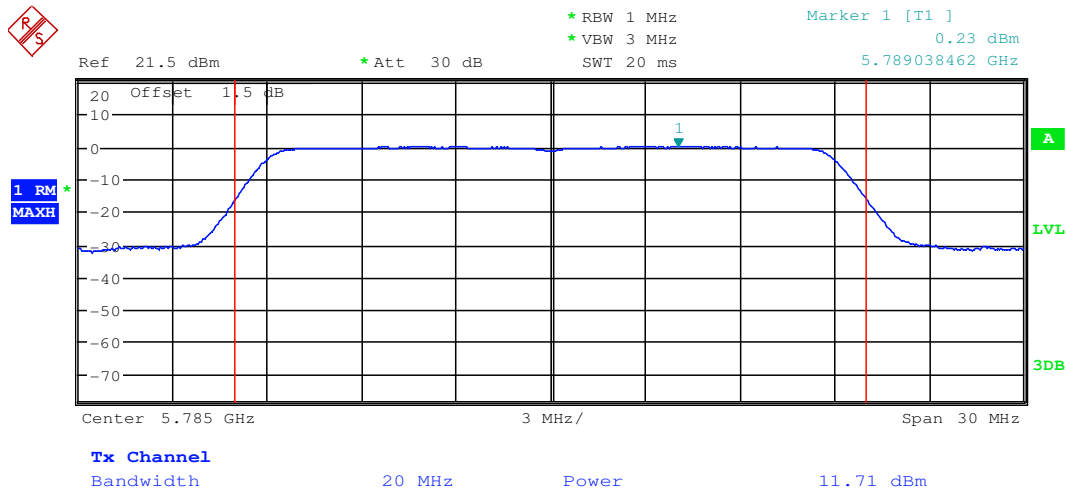
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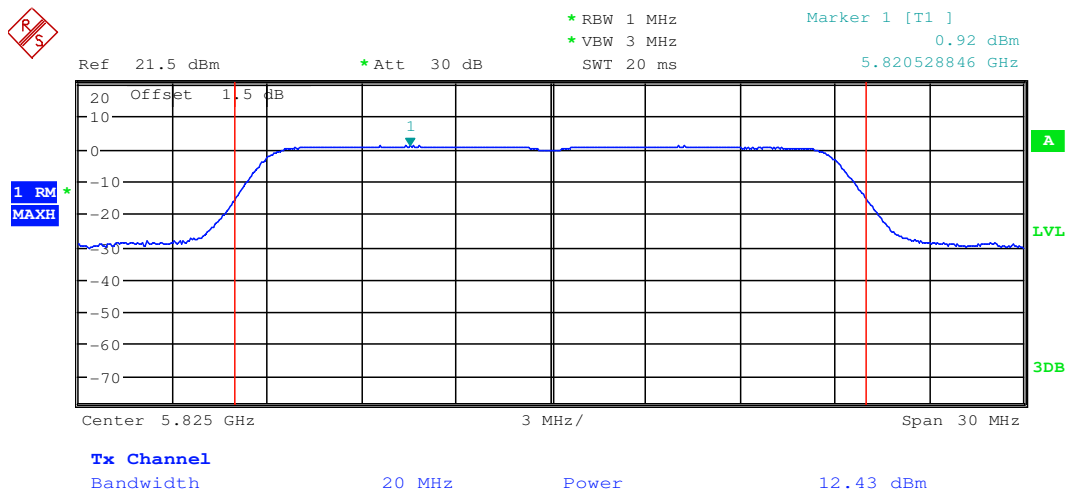
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Test mode:	802.11n(HT20)	Frequency(MHz):	5785
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Test mode:	802.11n(HT20)	Frequency(MHz):	5825
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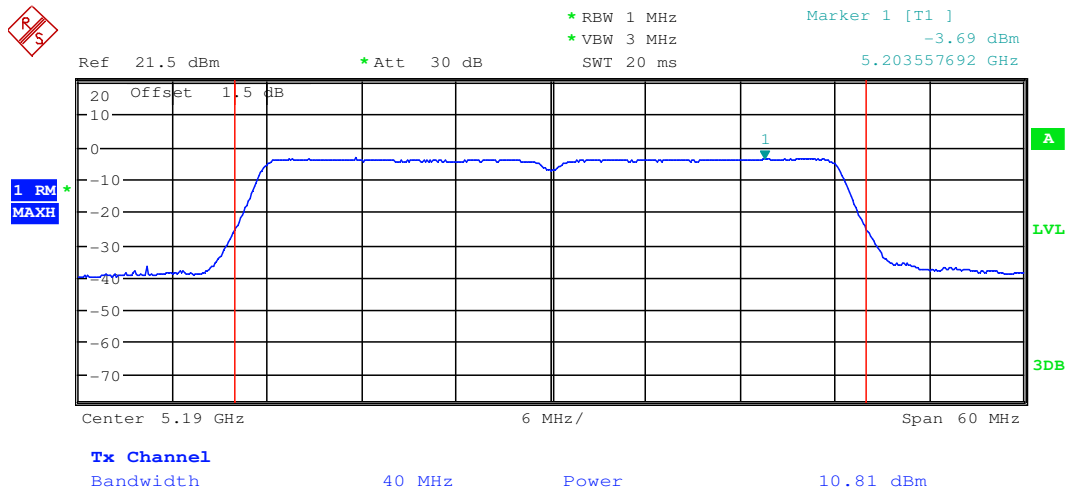
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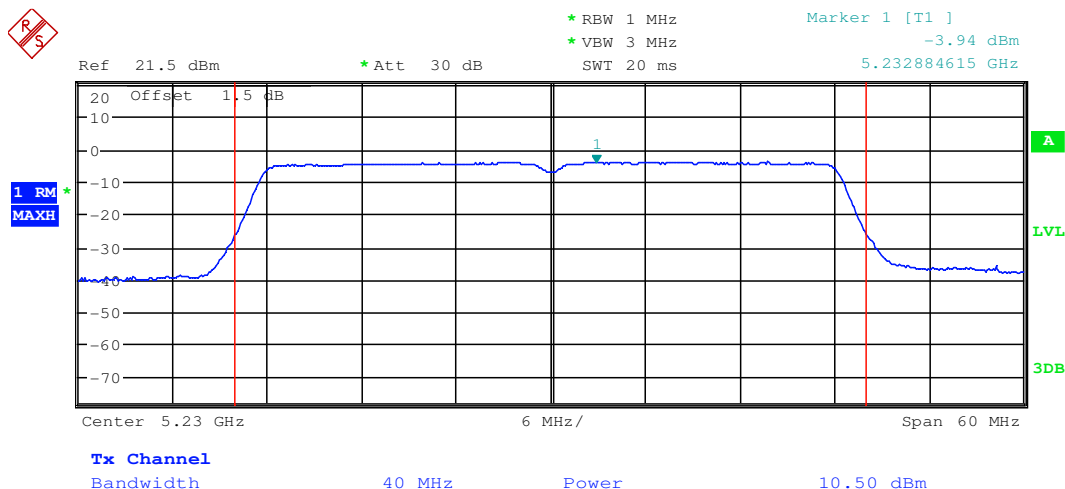
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Test mode:	802.11n(HT40)	Frequency(MHz):	5190
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Test mode:	802.11n(HT40)	Frequency(MHz):	5230
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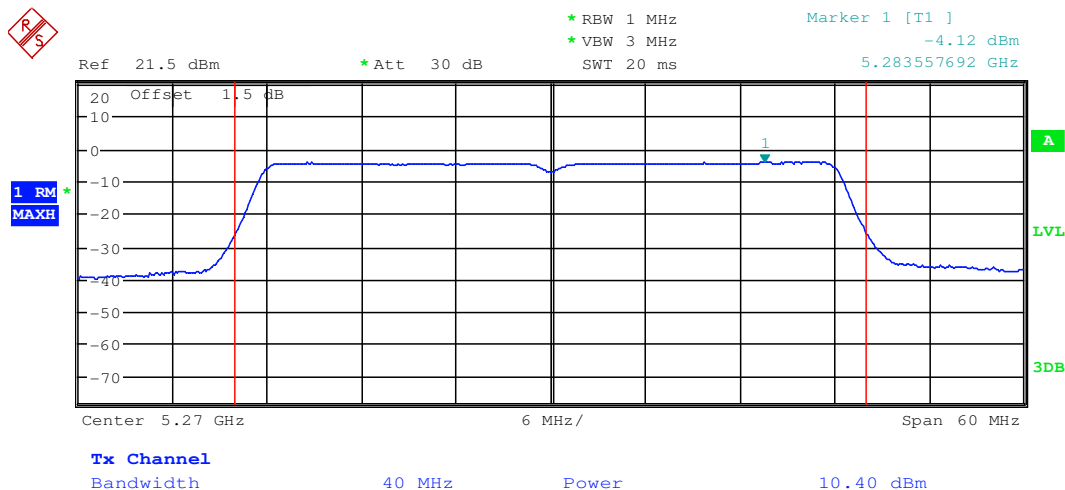


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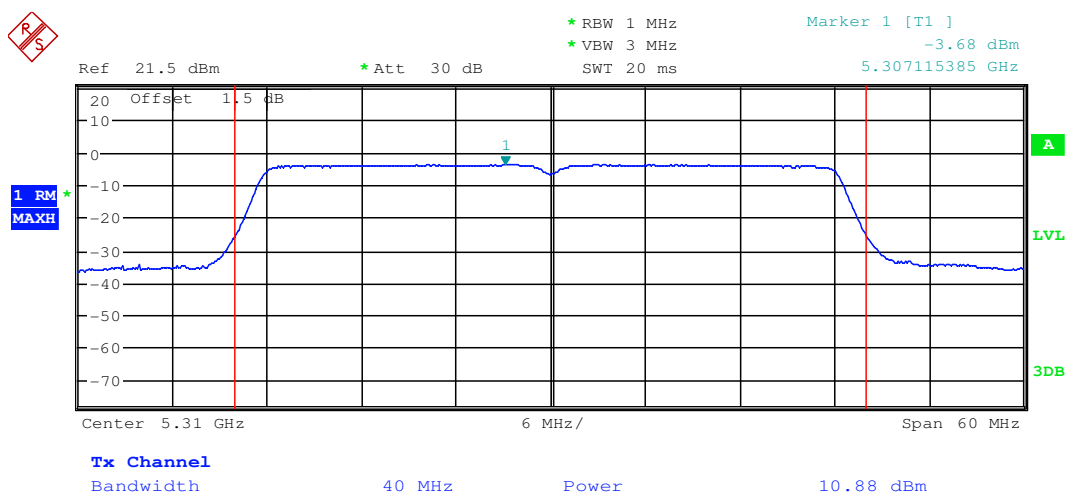
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Test mode:	802.11n(HT40)	Frequency(MHz):	5270
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Test mode:	802.11n(HT40)	Frequency(MHz):	5310
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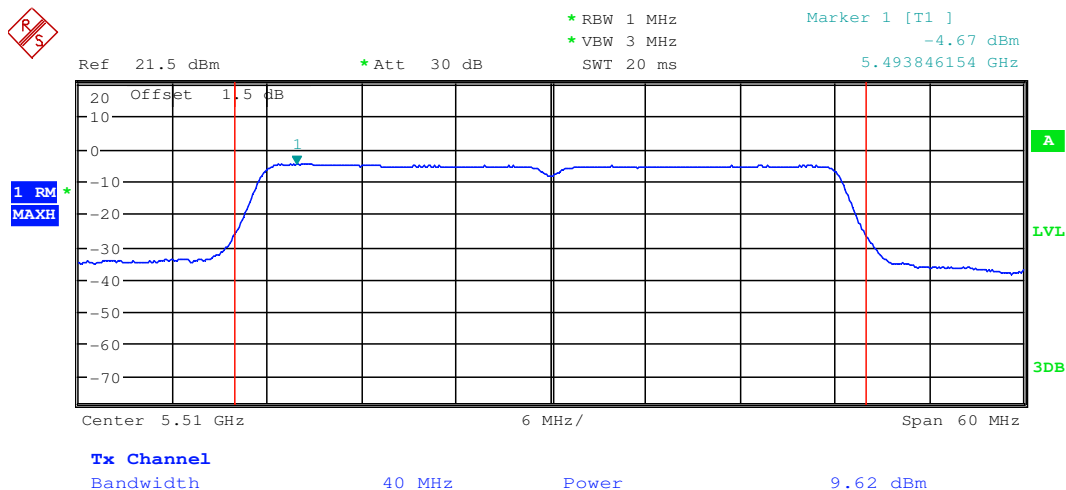


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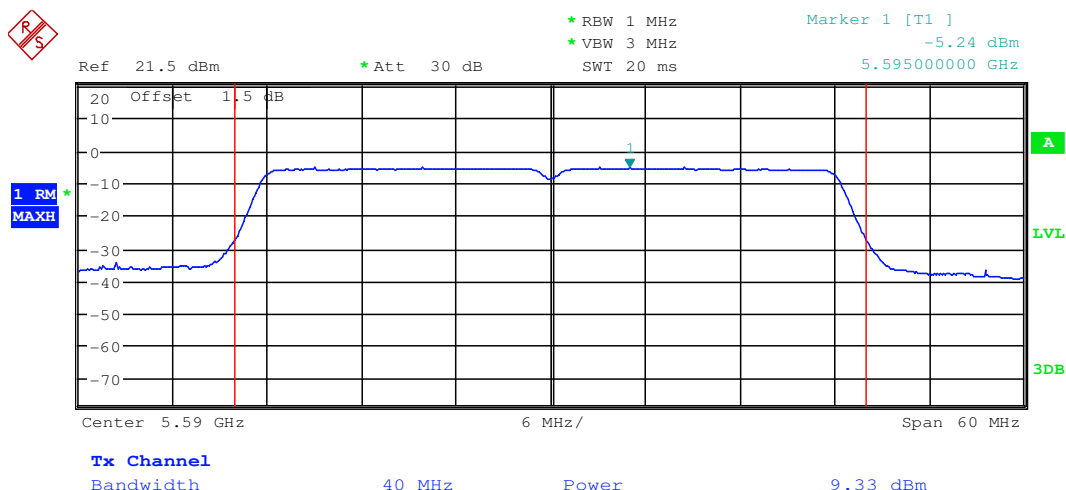
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Test mode:	802.11n(HT40)	Frequency(MHz):	5510
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Test mode:	802.11n(HT40)	Frequency(MHz):	5590
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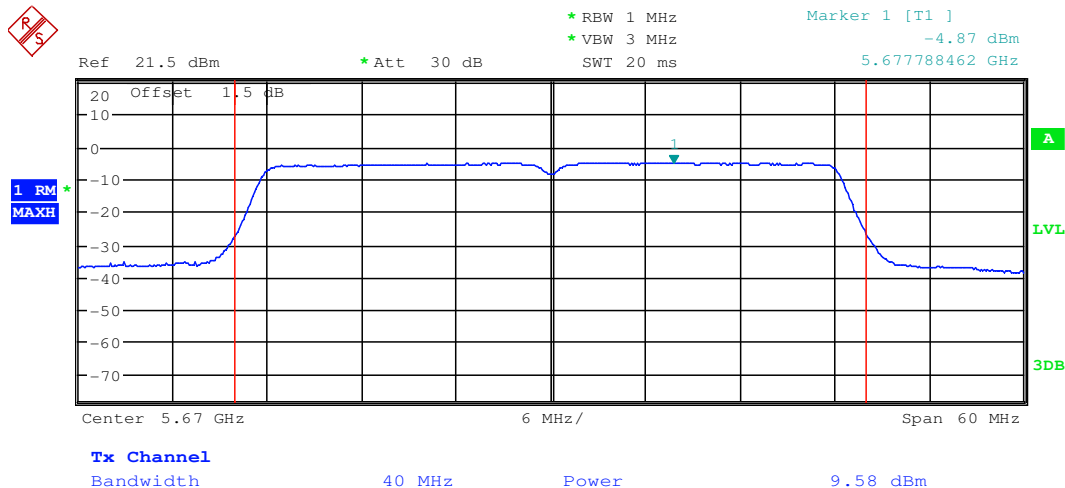
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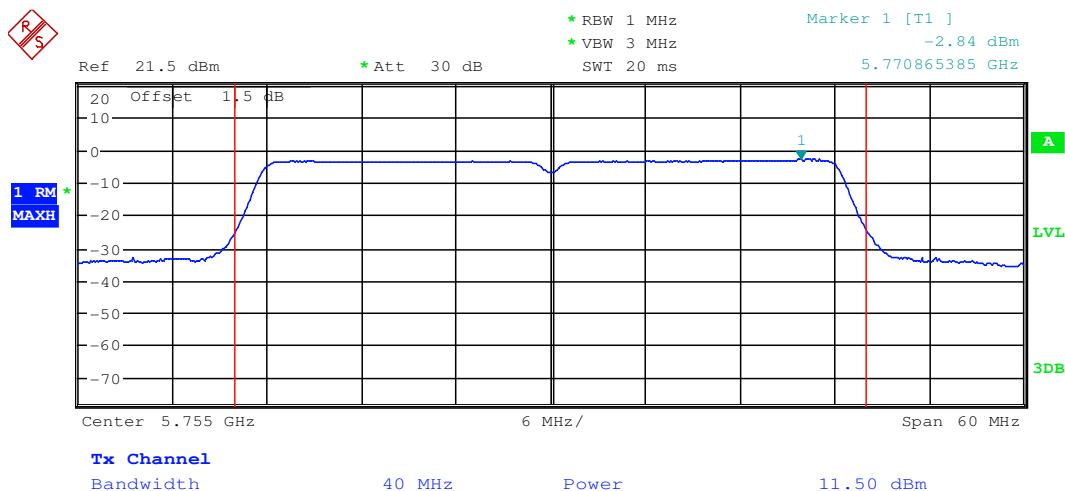
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Test mode:	802.11n(HT40)	Frequency(MHz):	5670
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Test mode:	802.11n(HT40)	Frequency(MHz):	5755
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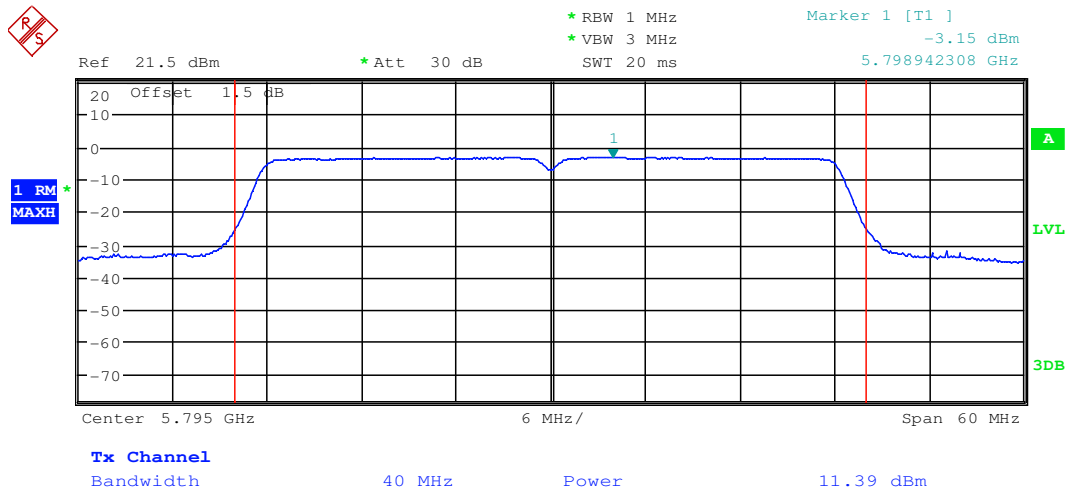
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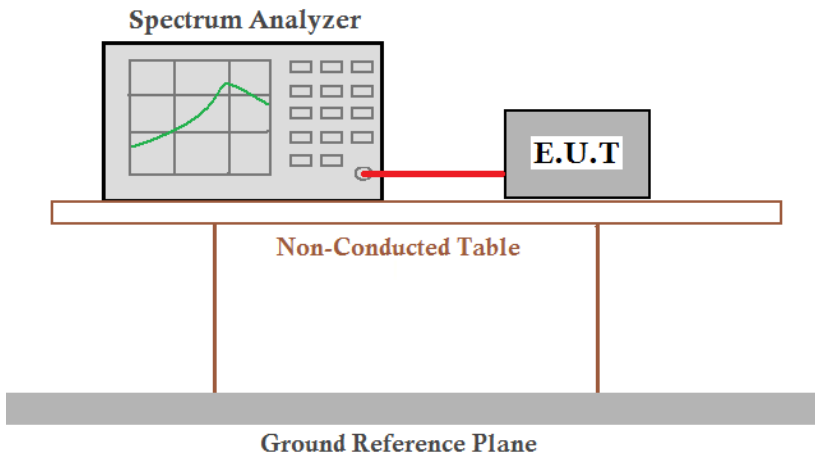
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Test mode:	802.11n(HT40)	Frequency(MHz):	5795
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6.4 26dB Emission Bandwidth and 99% Occupied Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(a)
Test Method:	ANSI C63.10: 2013
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 the Spectrum Analyzer and the E.U.T are placed on a Non-Conducted Table. The table is supported by two vertical legs. Below the table is a Ground Reference Plane.</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 6Mbps of rate is the worst case of 802.11a; MCSO of rate is the worst case of 802.11n(HT20); MCSO of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.
Limit:	No restriction limits.
Test Results:	Pass





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Measurement Data:

802.11a mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	19.808	16.490
5200	19.760	16.490
5240	19.856	16.490
5260	20.240	16.490
5300	20.865	16.538
5320	20.817	16.538
5500	20.865	16.538
5600	20.529	16.538
5700	20.529	16.490
5745	20.769	16.538
5785	26.346	16.587
5825	26.202	16.538

802.11n(HT20) mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5180	20.240	17.740
5200	20.240	17.740
5240	20.192	17.740
5260	20.240	17.740
5300	20.240	17.740
5320	20.433	17.740
5500	20.433	17.740
5600	20.288	17.740
5700	20.385	17.740
5745	20.337	17.740
5785	20.337	17.740
5825	20.529	17.740

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802.11n(HT40) mode		
Frequency (MHz)	26dB Emission Bandwidth (MHz)	99% Occupied Bandwidth (MHz)
5190	40.288	36.346
5230	40.385	36.346
5270	40.577	36.346
5310	40.673	36.346
5510	40.962	36.442
5590	40.577	36.346
5670	40.673	36.346
5755	40.192	36.346
5795	40.673	36.346

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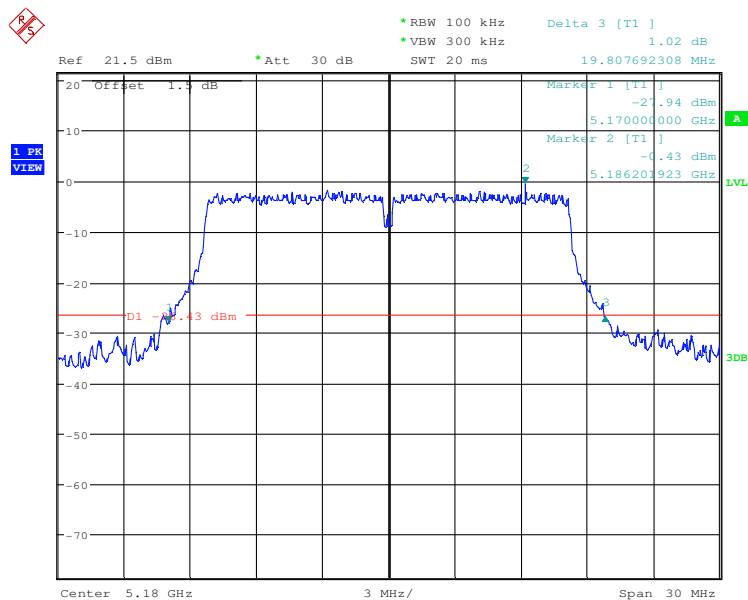
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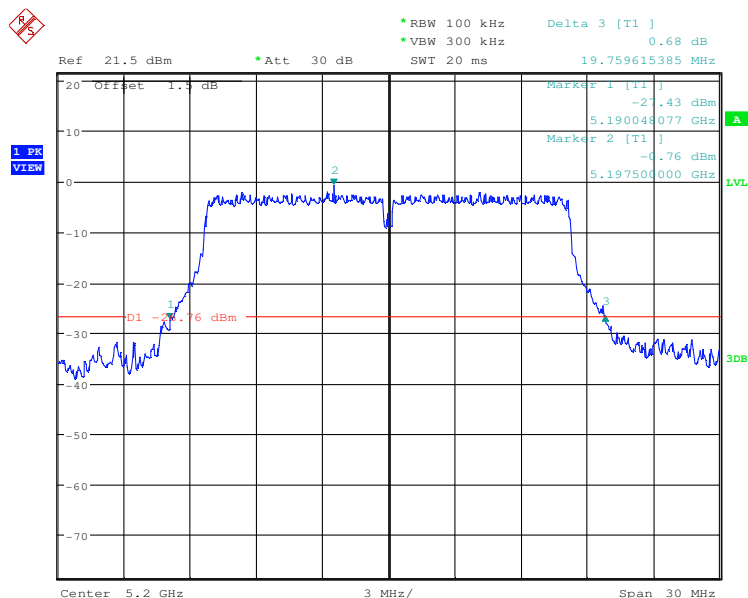
26dB Emission Bandwidth

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
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Test mode:	802.11a	Frequency(MHz):	5200
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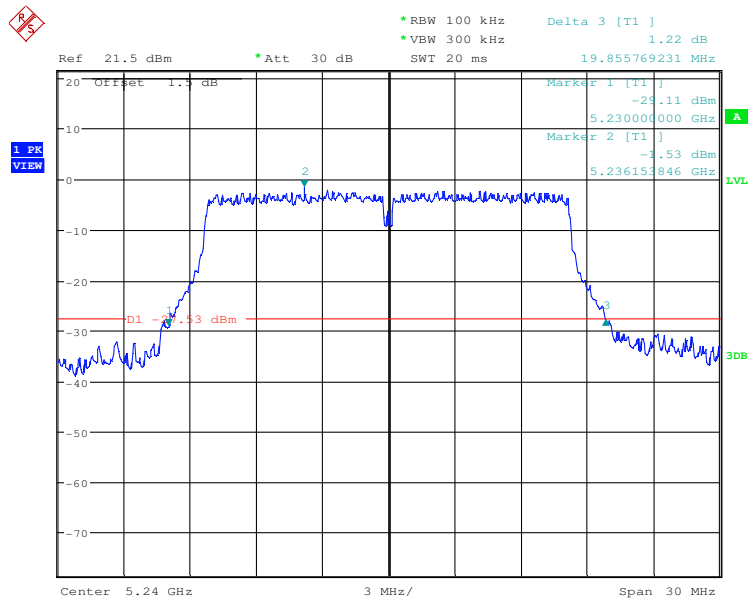
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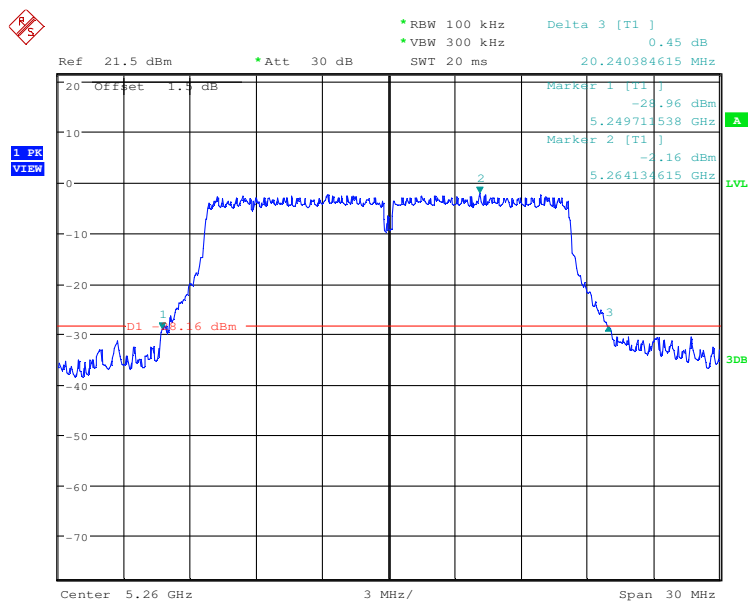
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Test mode:	802.11a	Frequency(MHz):	5240
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Test mode:	802.11a	Frequency(MHz):	5260
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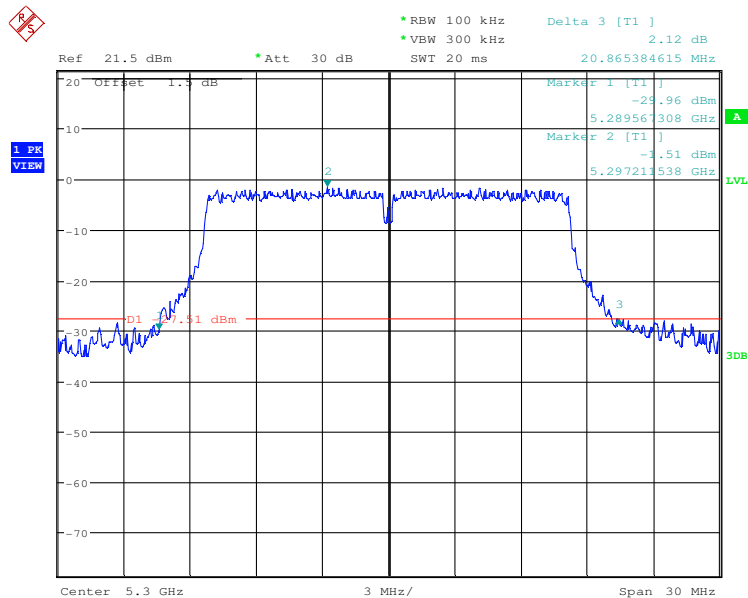
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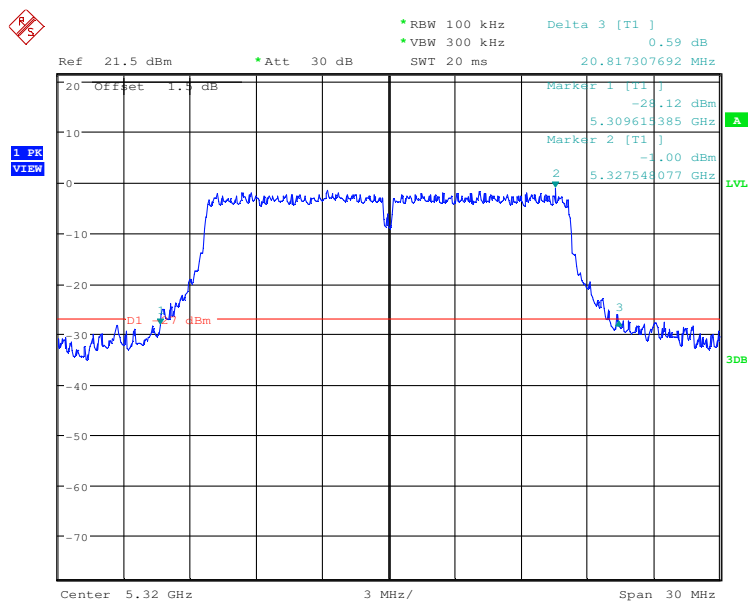
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Test mode:	802.11a	Frequency(MHz):	5300
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Test mode:	802.11a	Frequency(MHz):	5320
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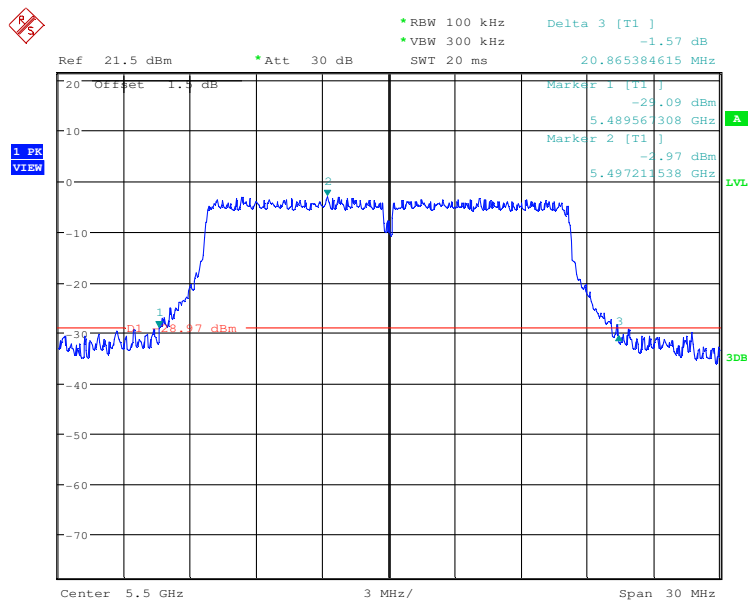


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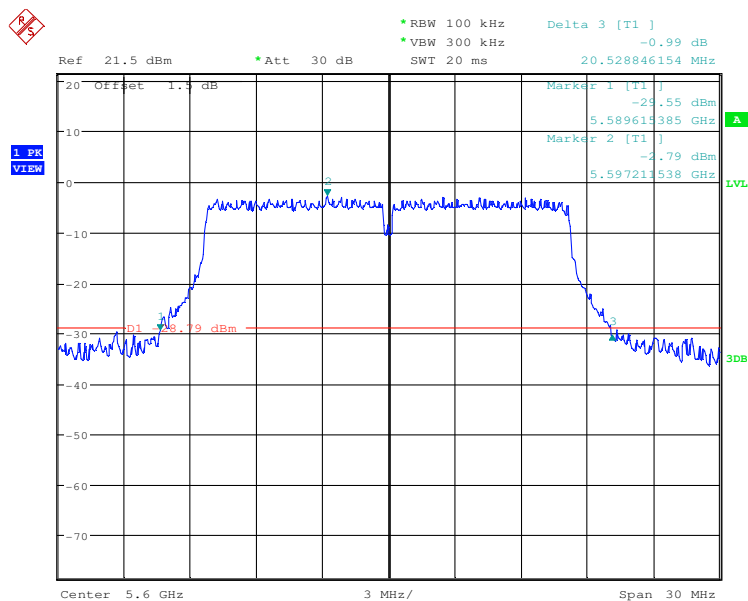
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Test mode:	802.11a	Frequency(MHz):	5500
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Test mode:	802.11a	Frequency(MHz):	5600
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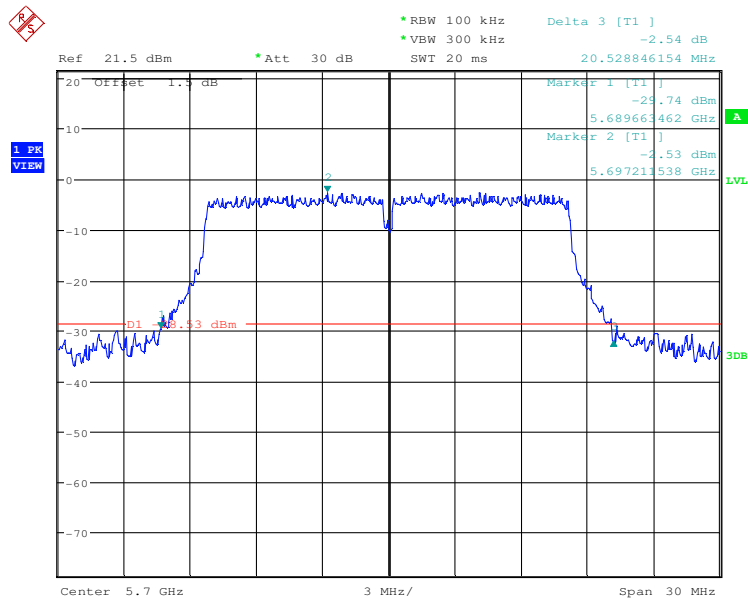
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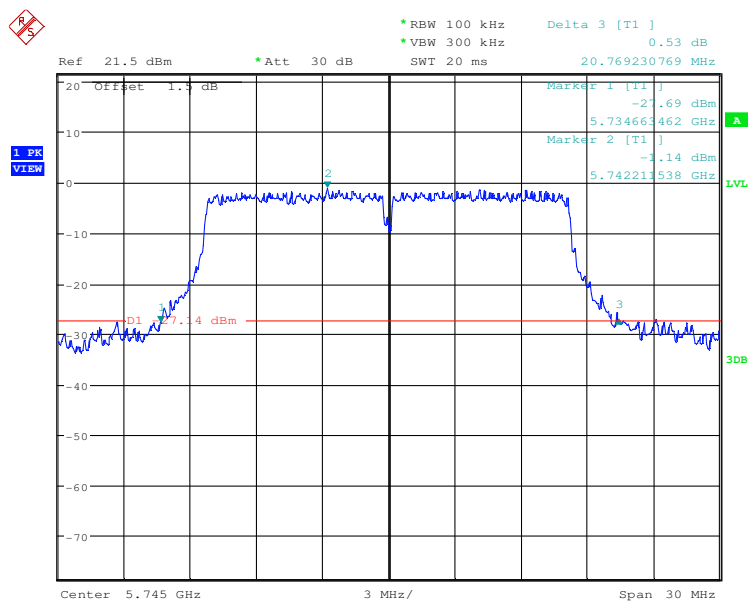
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Test mode:	802.11a	Frequency(MHz):	5700
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Test mode:	802.11a	Frequency(MHz):	5745
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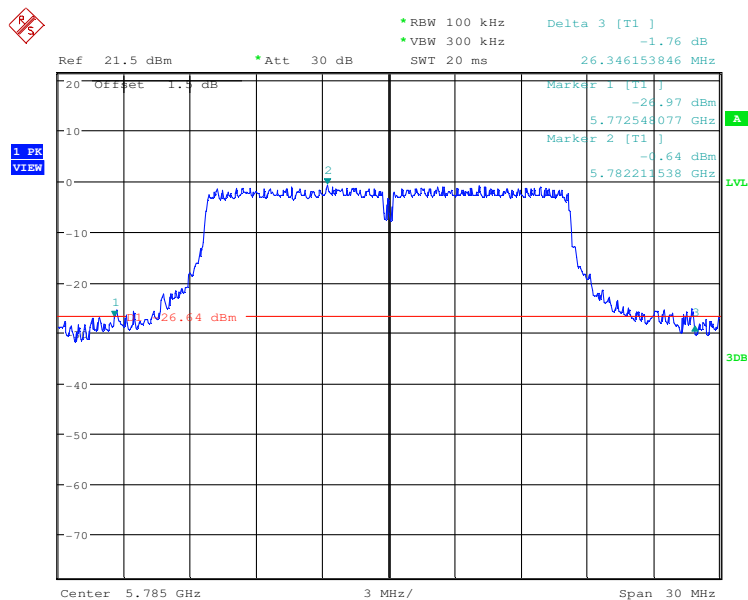


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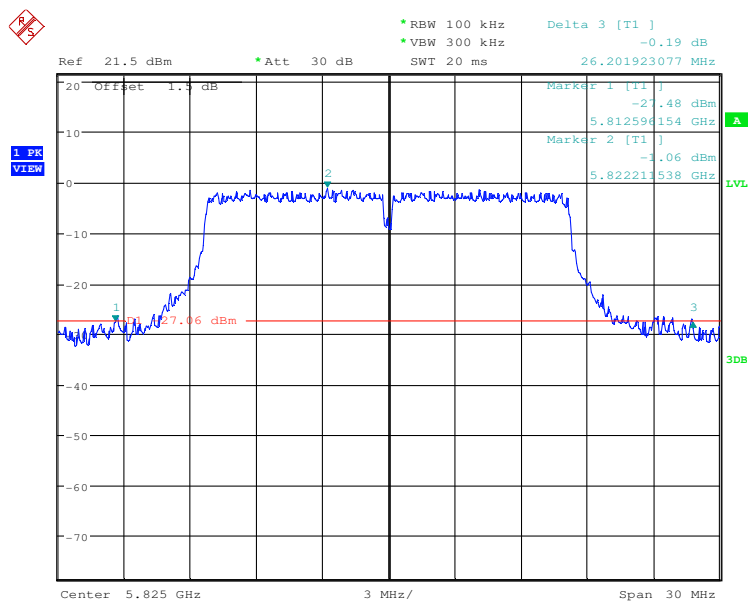
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Test mode:	802.11a	Frequency(MHz):	5785
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Test mode:	802.11a	Frequency(MHz):	5825
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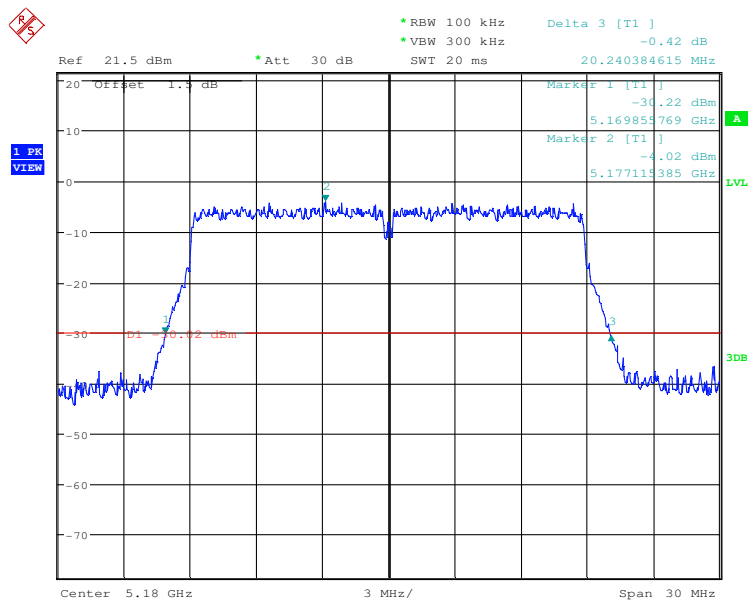
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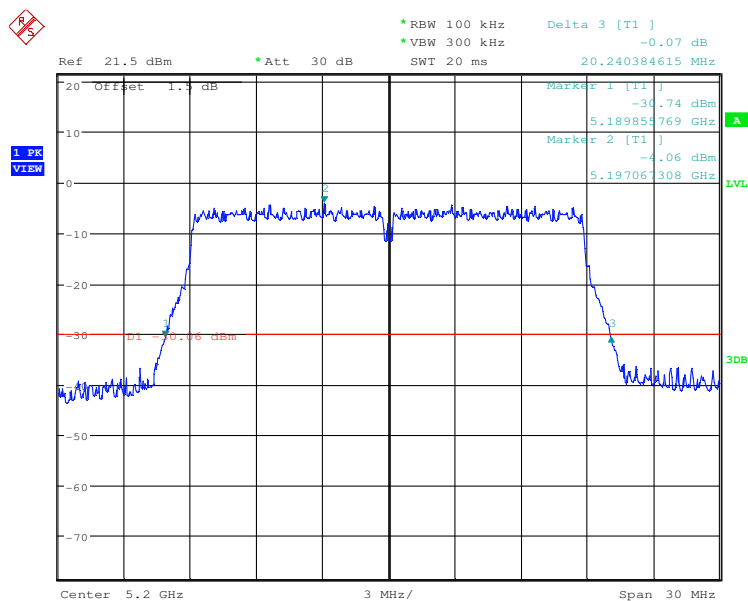
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Test mode:	802.11n(HT20)	Frequency(MHz):	5180
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Test mode:	802.11n(HT20)	Frequency(MHz):	5200
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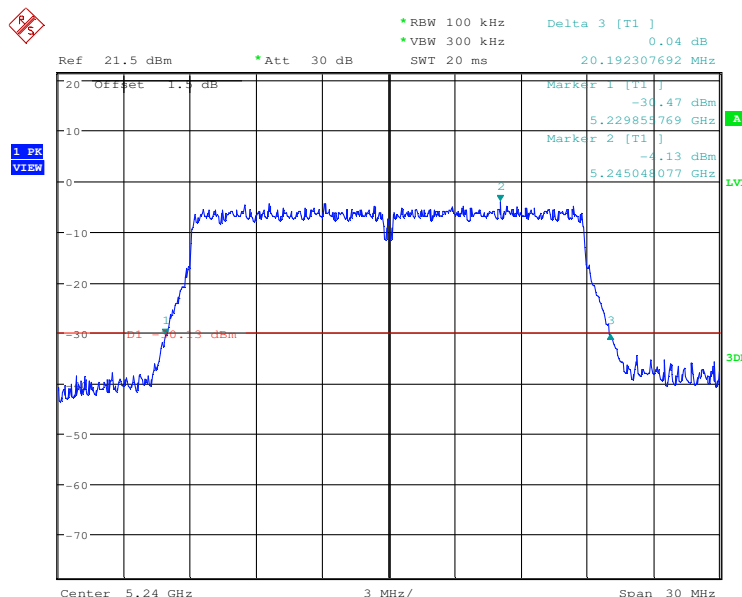


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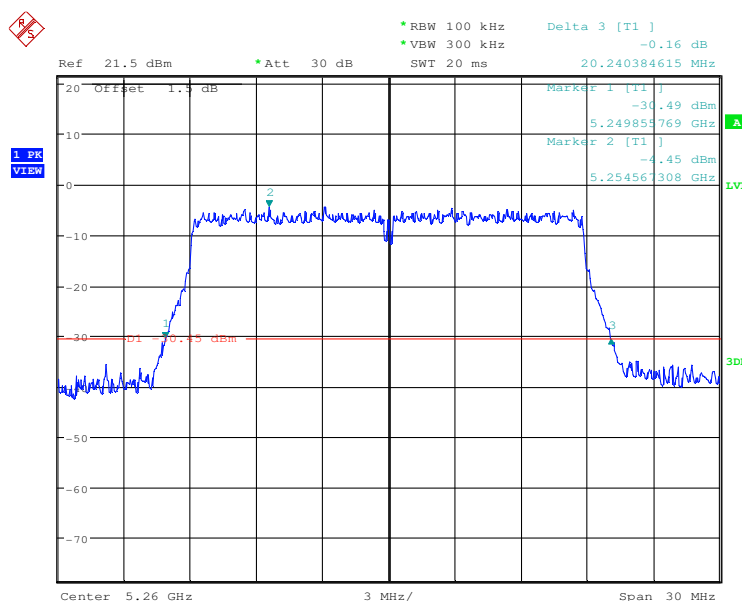
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Test mode:	802.11n(HT20)	Frequency(MHz):	5240
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Test mode:	802.11n(HT20)	Frequency(MHz):	5260
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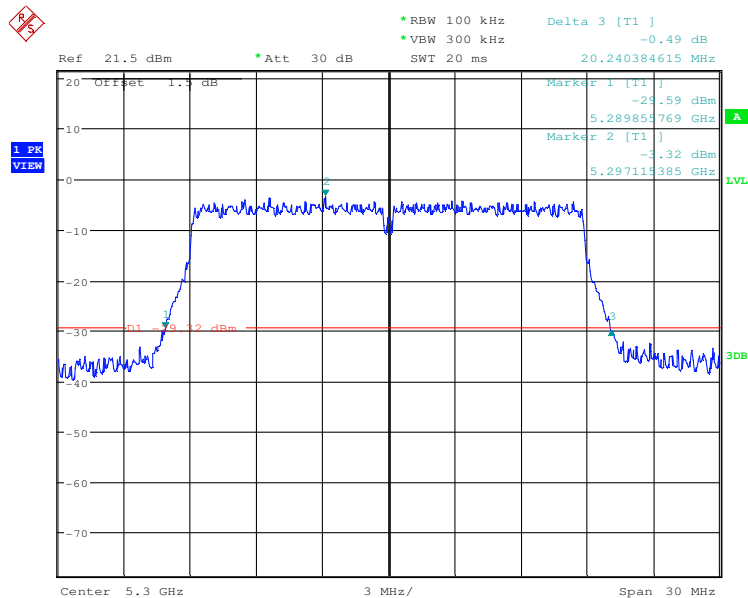
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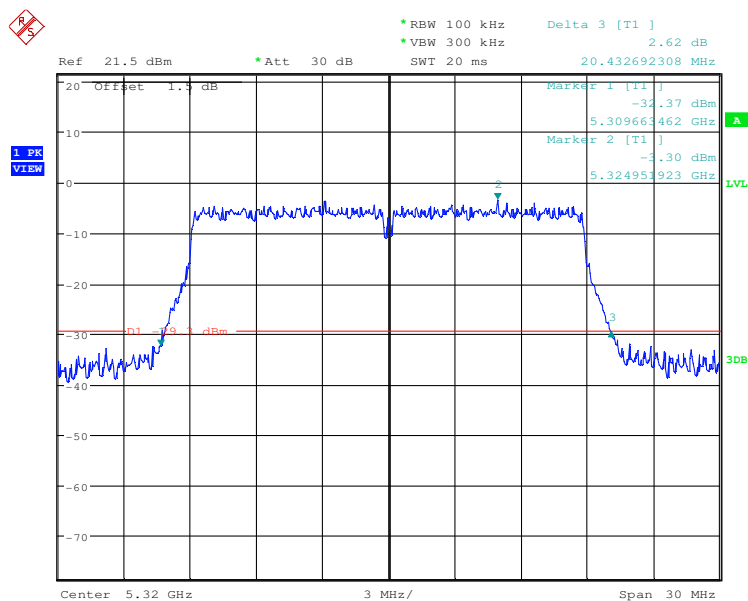
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Test mode:	802.11n(HT20)	Frequency(MHz):	5300
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Test mode:	802.11n(HT20)	Frequency(MHz):	5320
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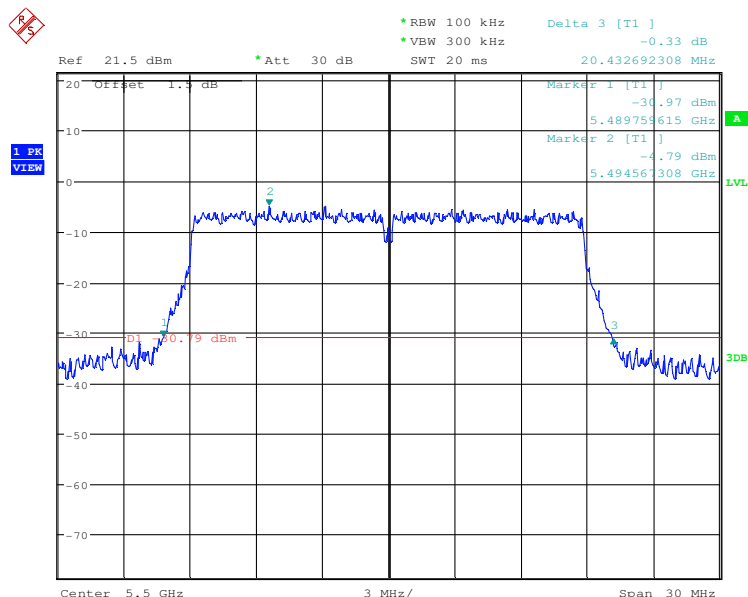
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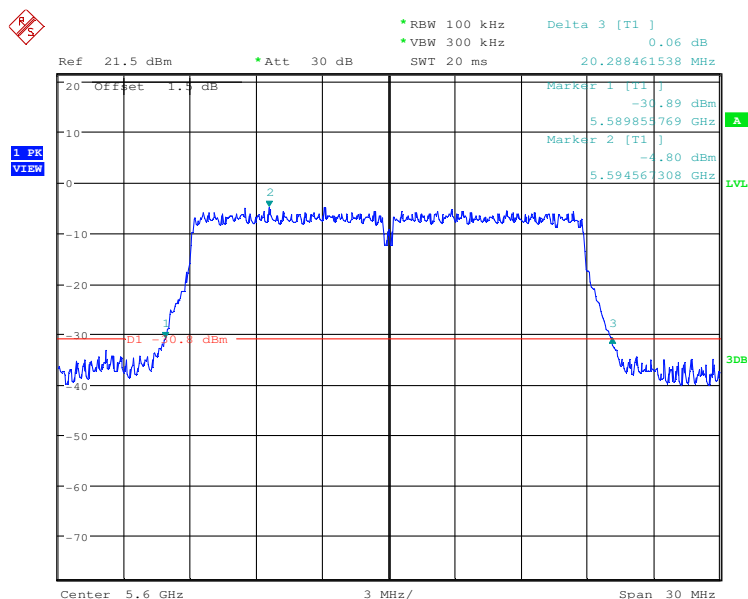
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Test mode:	802.11n(HT20)	Frequency(MHz):	5500
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Test mode:	802.11n(HT20)	Frequency(MHz):	5600
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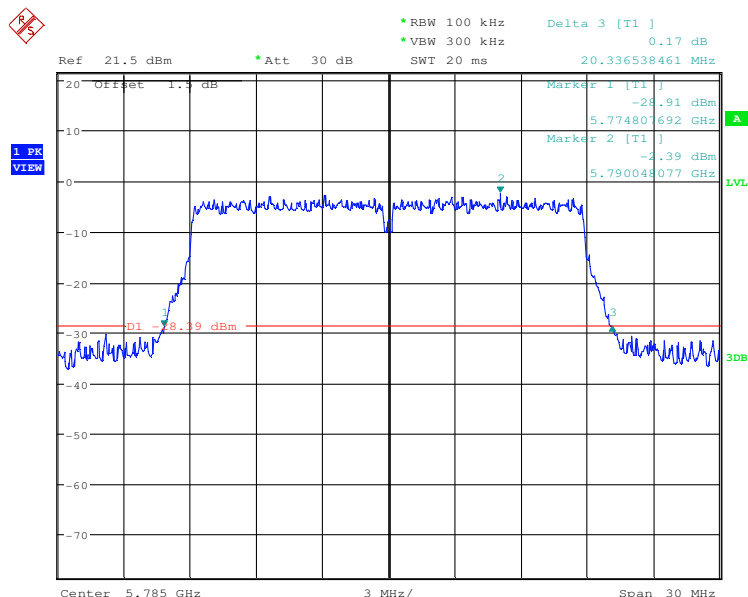
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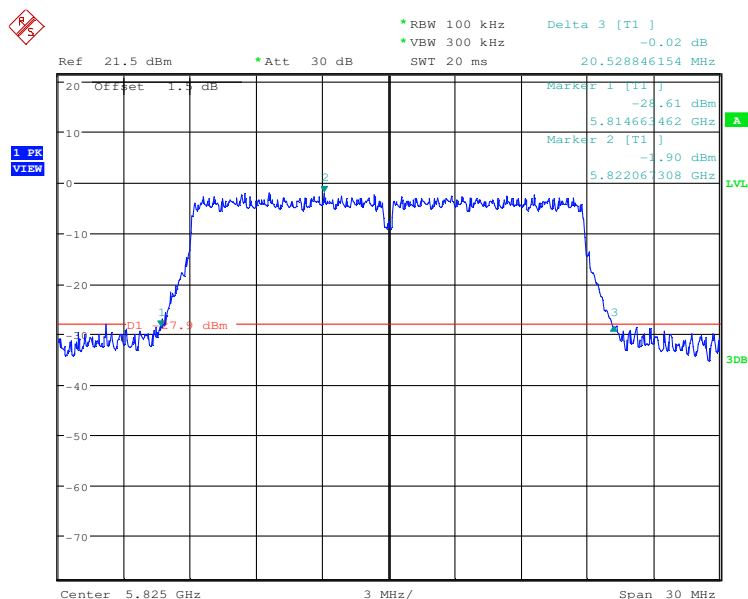
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Test mode:	802.11n(HT20)	Frequency(MHz):	5785
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Test mode:	802.11n(HT20)	Frequency(MHz):	5825
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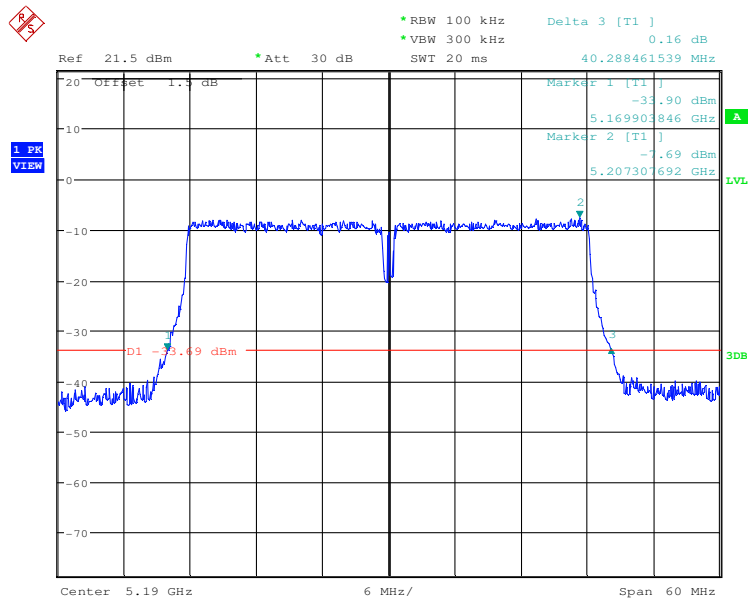


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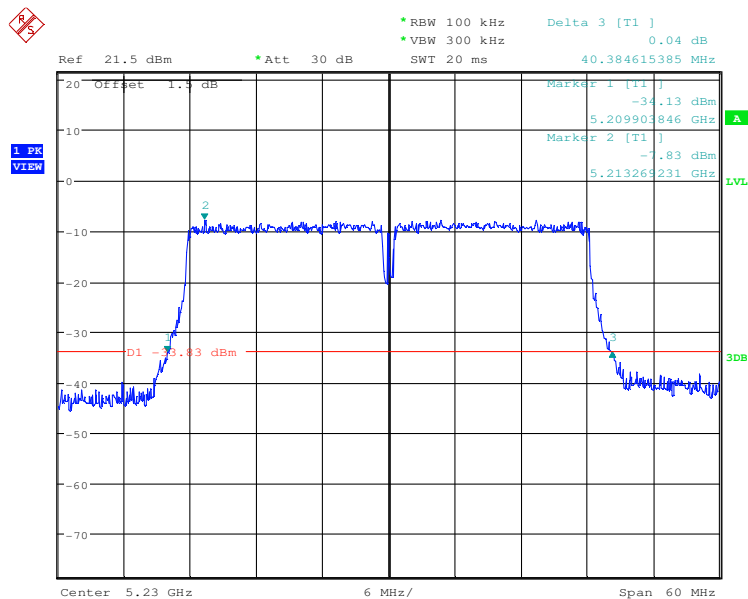
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Test mode:	802.11n(HT40)	Frequency(MHz):	5190
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Test mode:	802.11n(HT40)	Frequency(MHz):	5230
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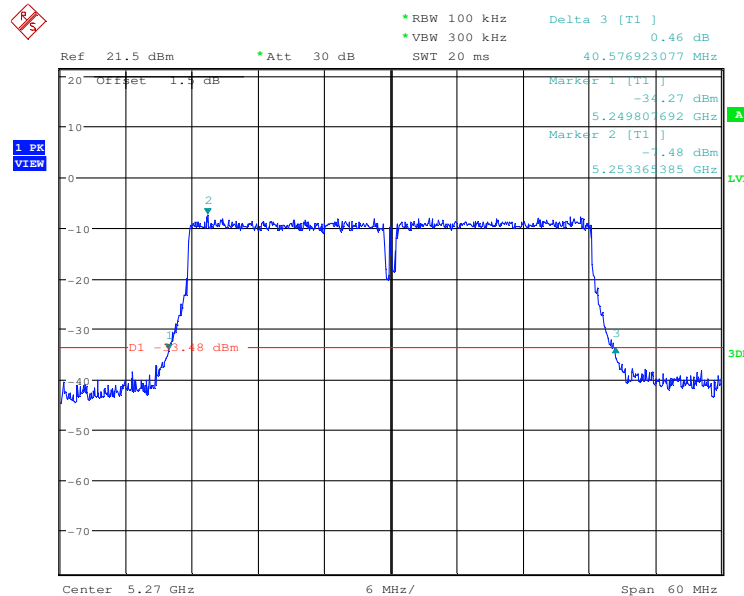


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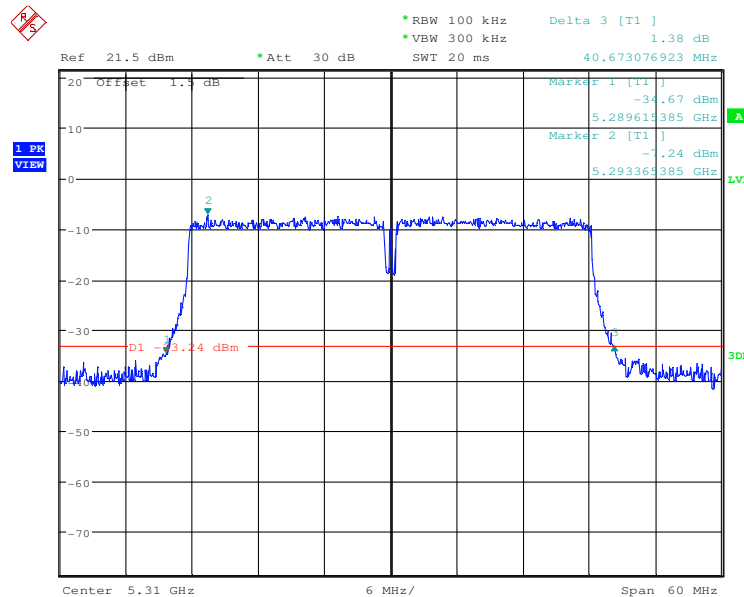
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Test mode:	802.11n(HT40)	Frequency(MHz):	5270
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Test mode:	802.11n(HT40)	Frequency(MHz):	5310
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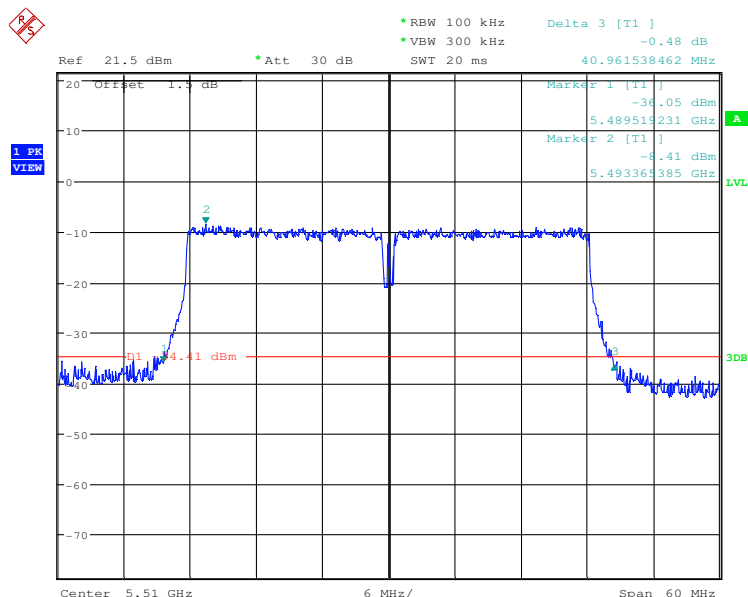


SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

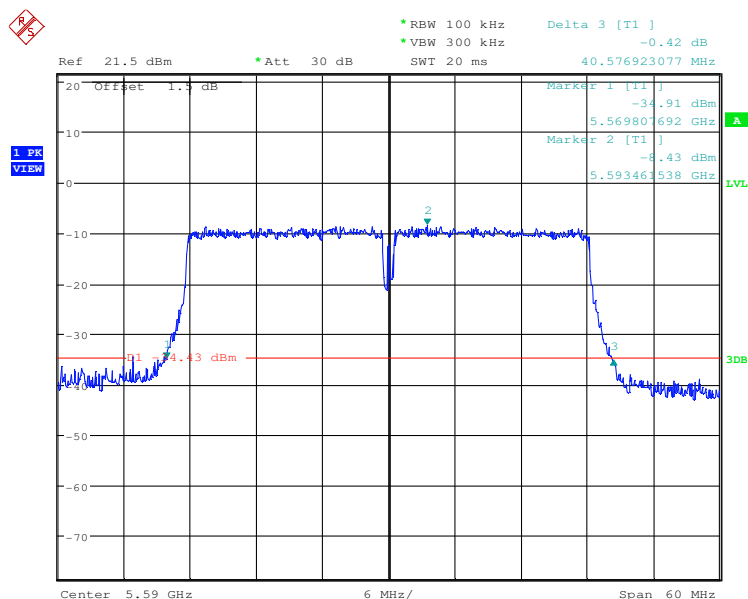
Report No.: SZEM150600379603

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Test mode:	802.11n(HT40)	Frequency(MHz):	5510
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Test mode:	802.11n(HT40)	Frequency(MHz):	5590
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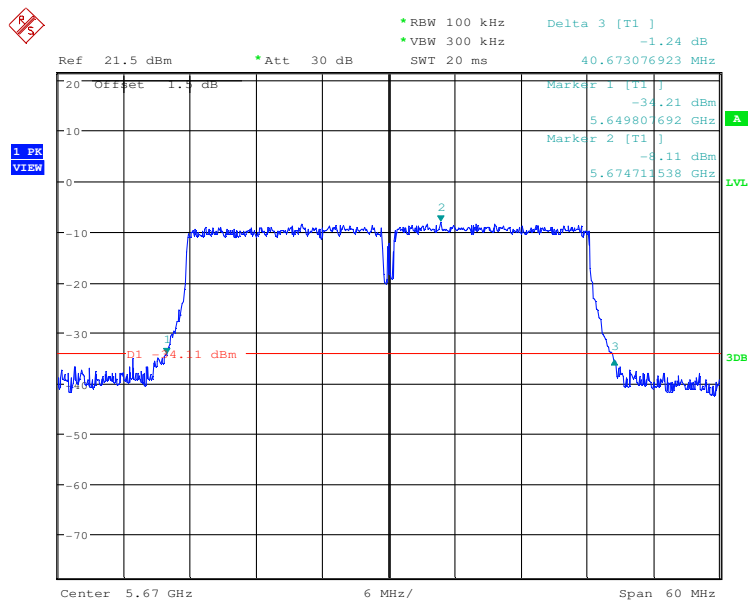
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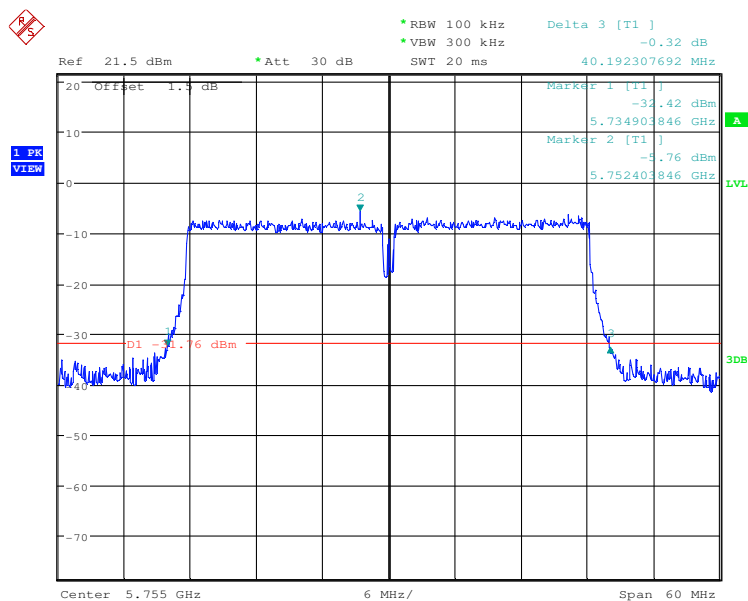
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Test mode:	802.11n(HT40)	Frequency(MHz):	5670
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Test mode:	802.11n(HT40)	Frequency(MHz):	5755
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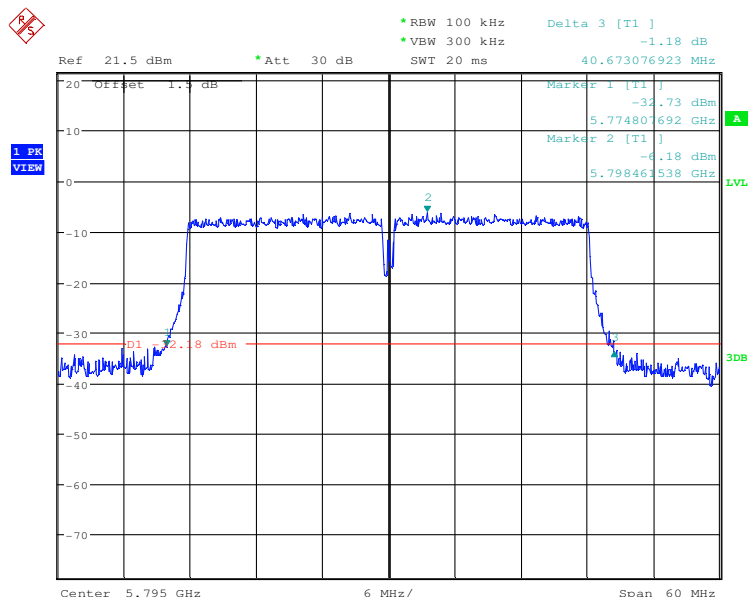


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Test mode:	802.11n(HT40)	Frequency(MHz):	5795
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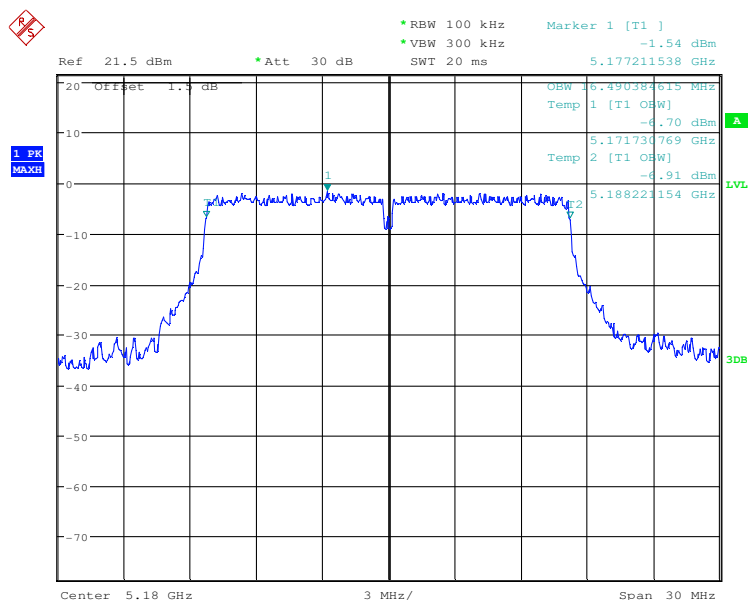
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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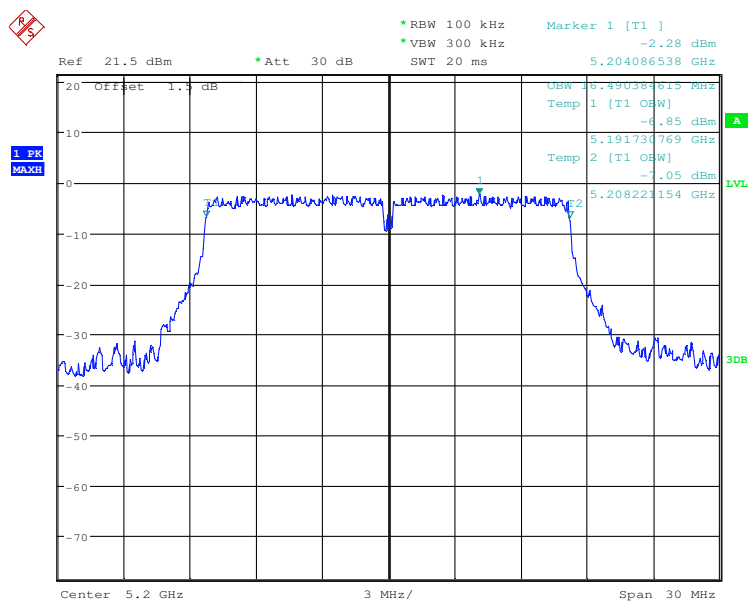
99% occupied bandwidth

Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
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Test mode:	802.11a	Frequency(MHz):	5200
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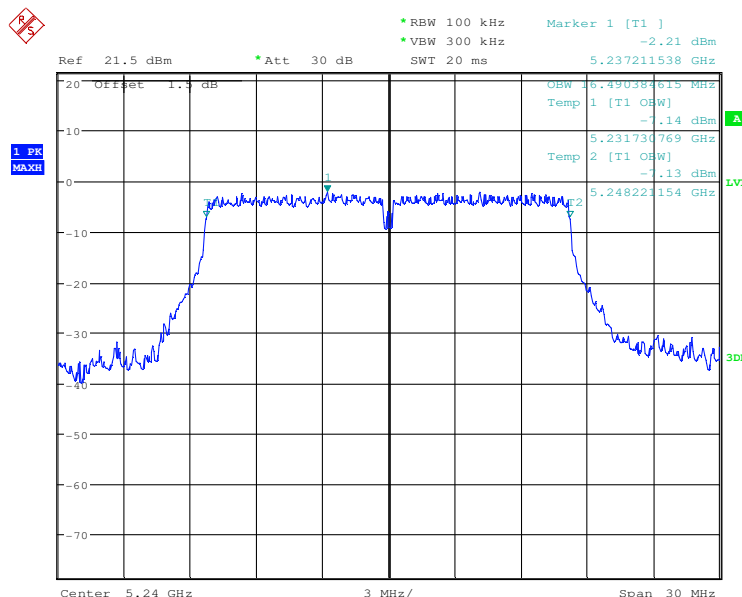


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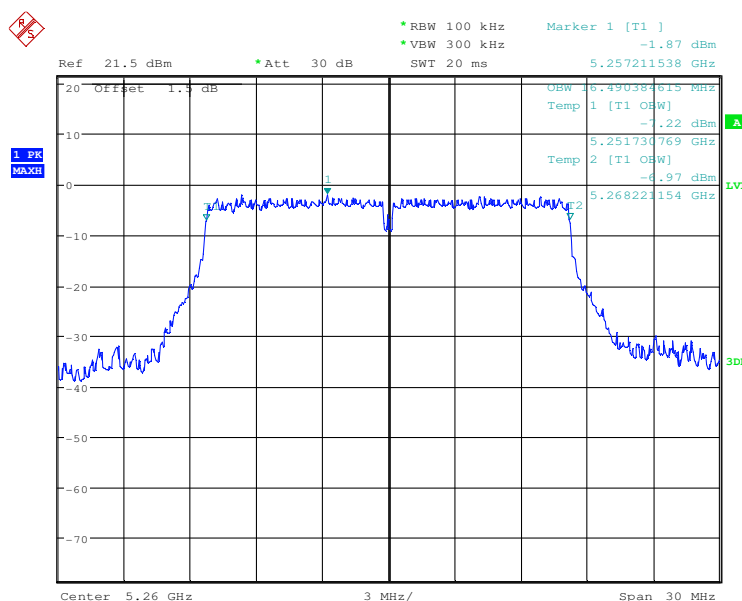
Report No.: SZEM150600379603

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Test mode:	802.11a	Frequency(MHz):	5240
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Test mode:	802.11a	Frequency(MHz):	5260
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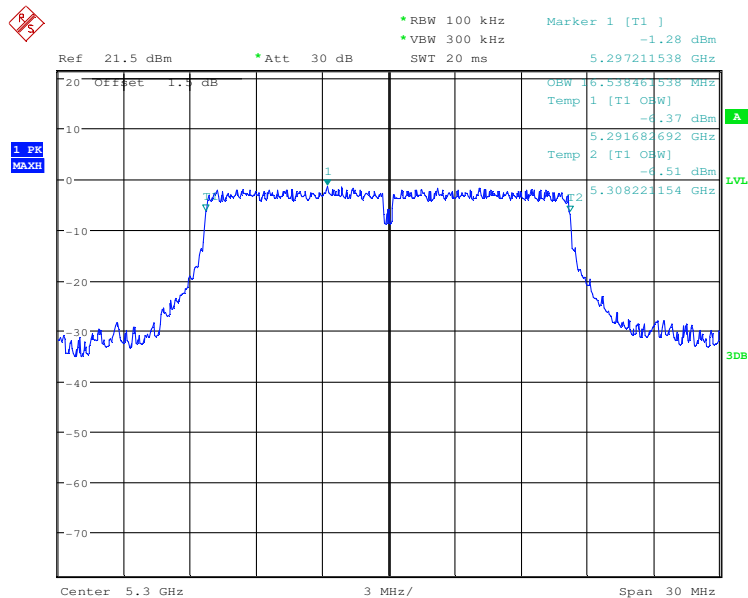
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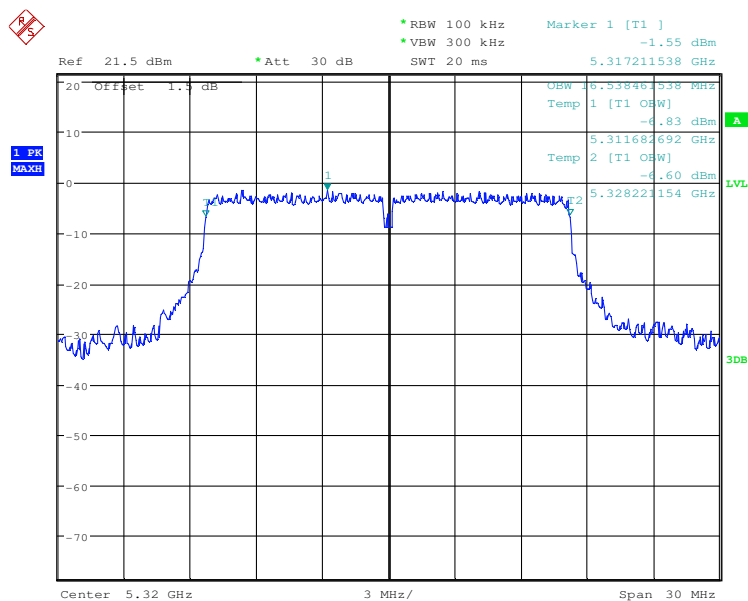
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Test mode:	802.11a	Frequency(MHz):	5300
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Test mode:	802.11a	Frequency(MHz):	5320
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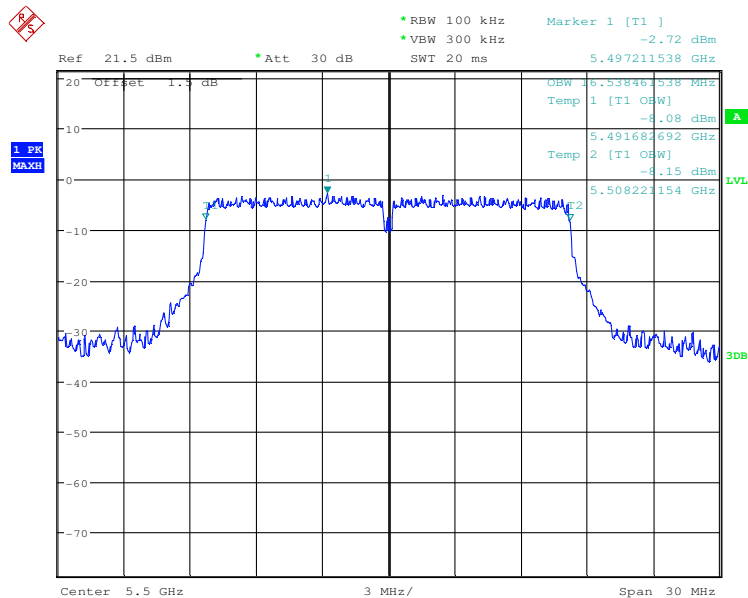
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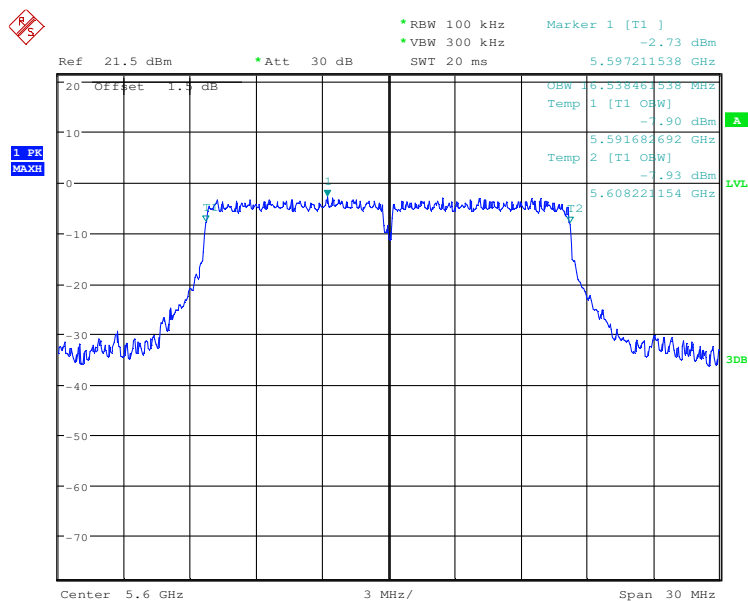
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Test mode:	802.11a	Frequency(MHz):	5500
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Test mode:	802.11a	Frequency(MHz):	5600
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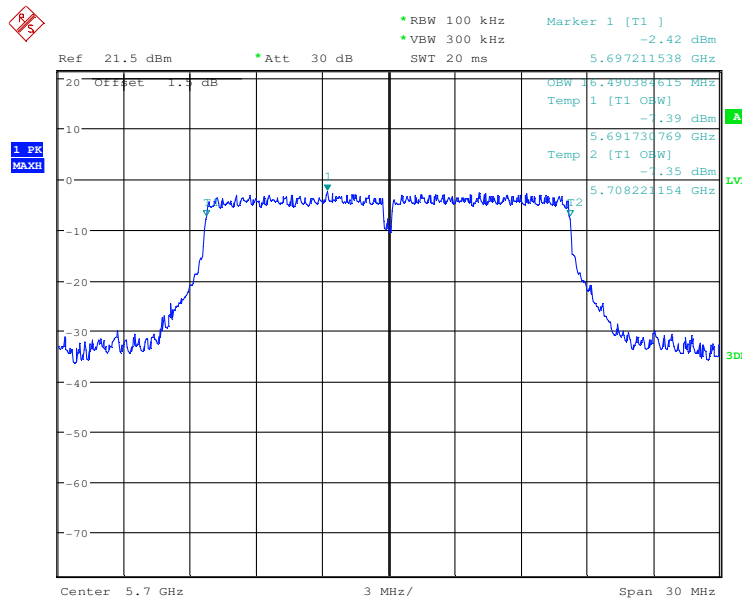


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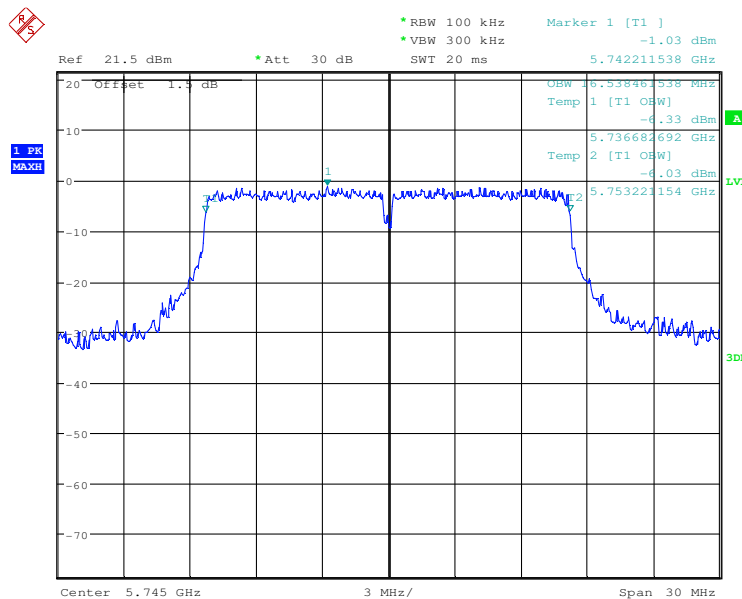
Report No.: SZEM150600379603

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Test mode:	802.11a	Frequency(MHz):	5700
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Test mode:	802.11a	Frequency(MHz):	5745
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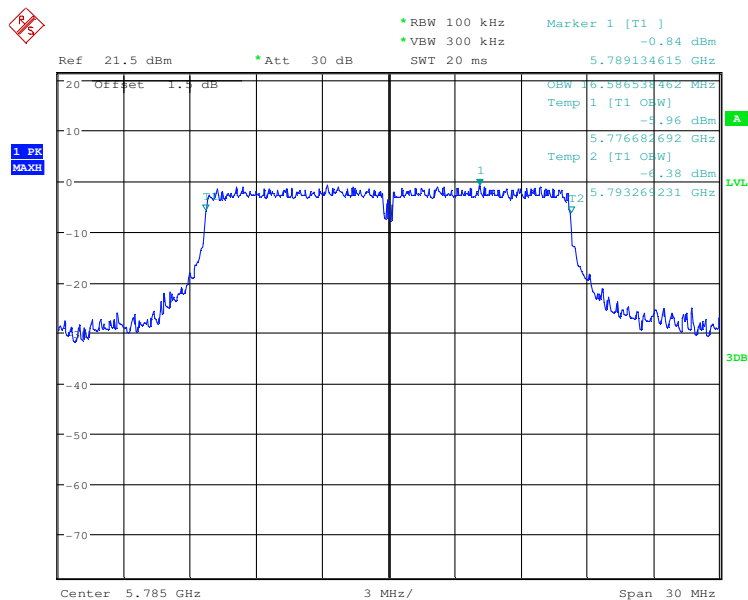


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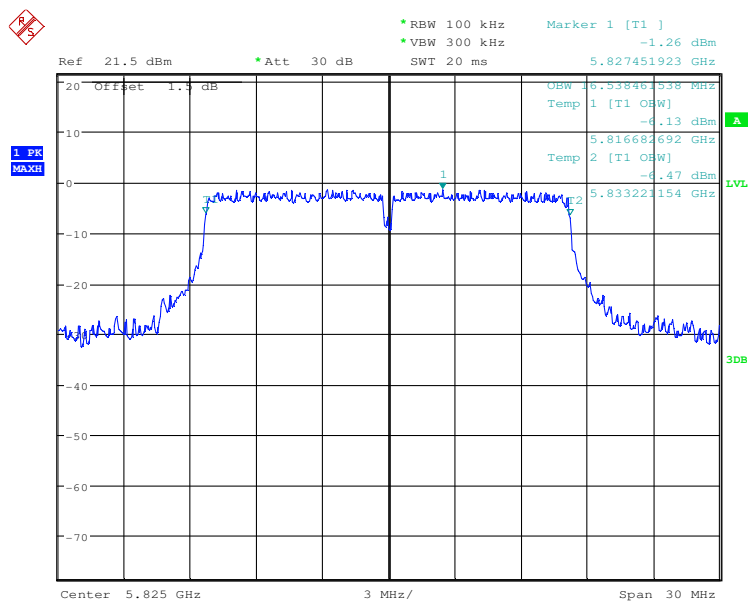
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Test mode:	802.11a	Frequency(MHz):	5785
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Test mode:	802.11a	Frequency(MHz):	5825
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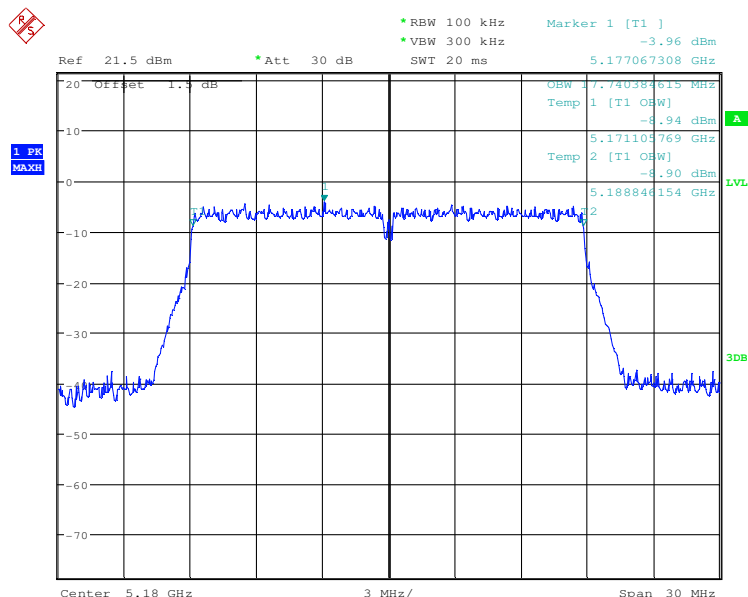
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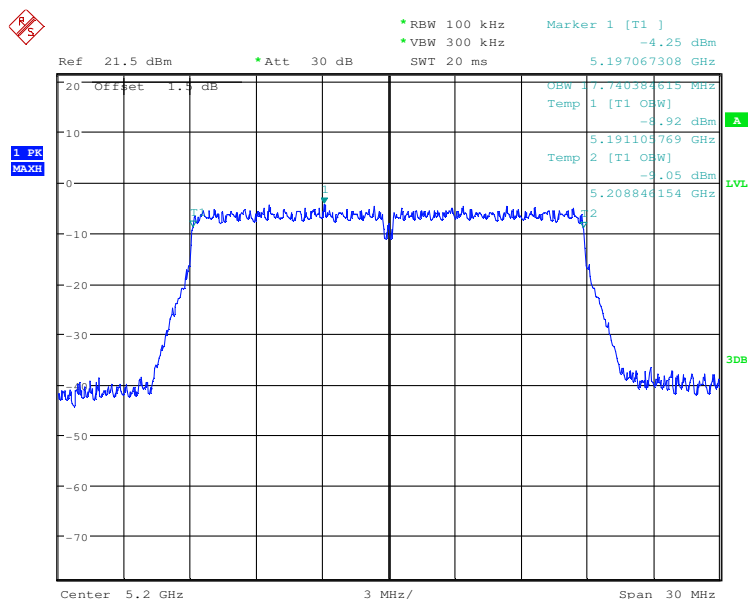
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Test mode:	802.11n(HT20)	Frequency(MHz):	5180
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Test mode:	802.11n(HT20)	Frequency(MHz):	5200
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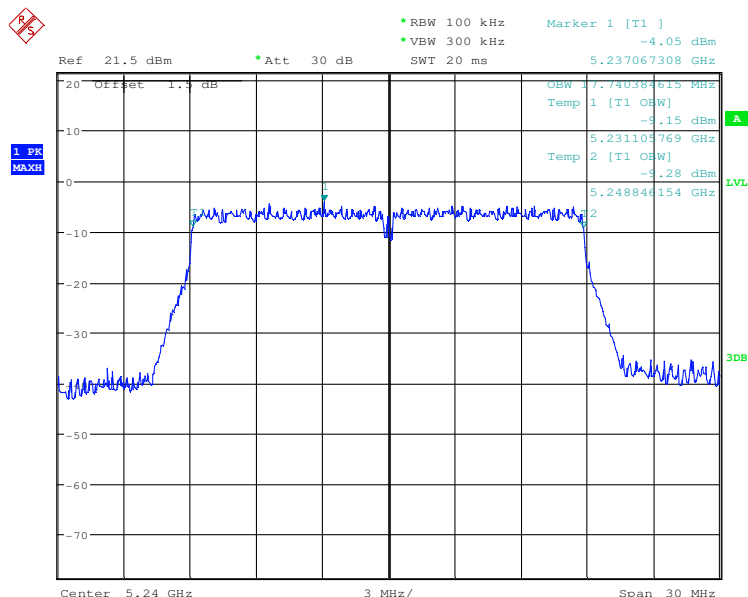


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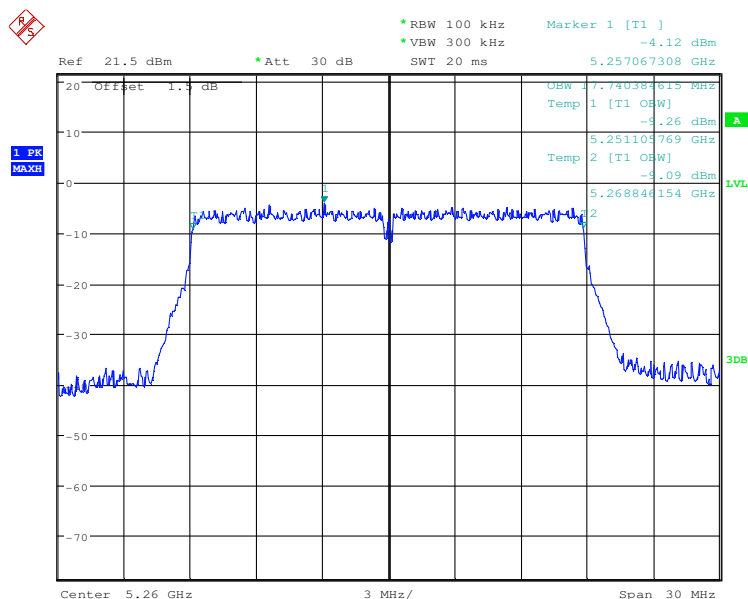
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Test mode:	802.11n(HT20)	Frequency(MHz):	5240
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Test mode:	802.11n(HT20)	Frequency(MHz):	5260
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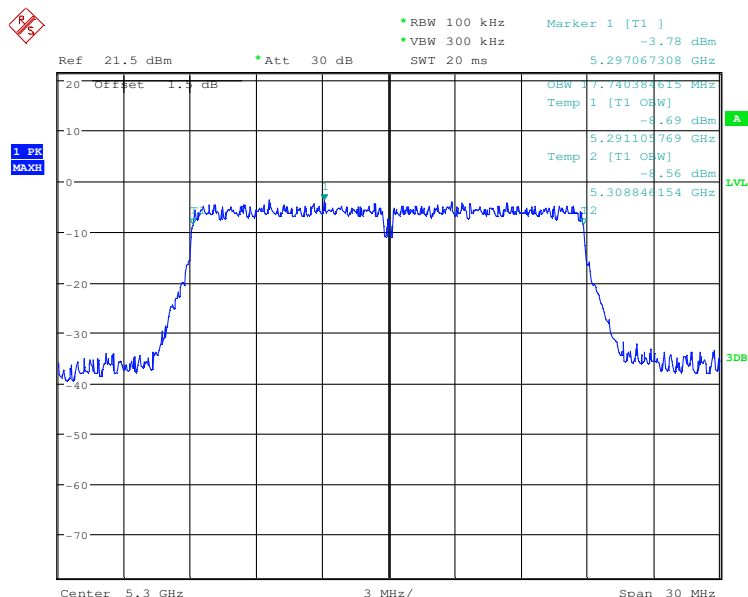


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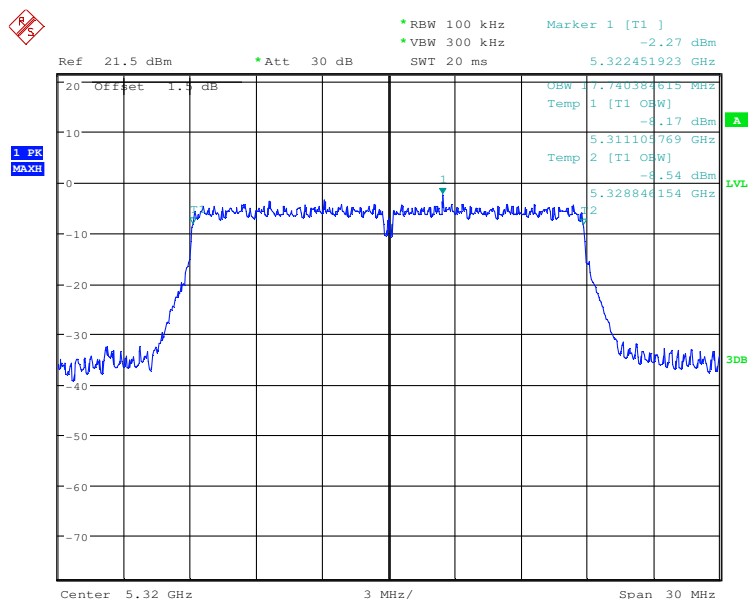
Report No.: SZEM150600379603

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Test mode:	802.11n(HT20)	Frequency(MHz):	5300
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Test mode:	802.11n(HT20)	Frequency(MHz):	5320
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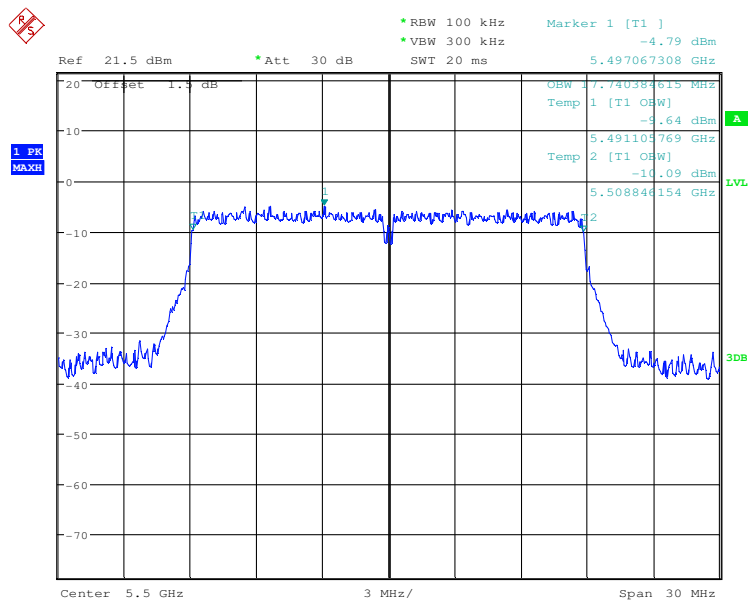
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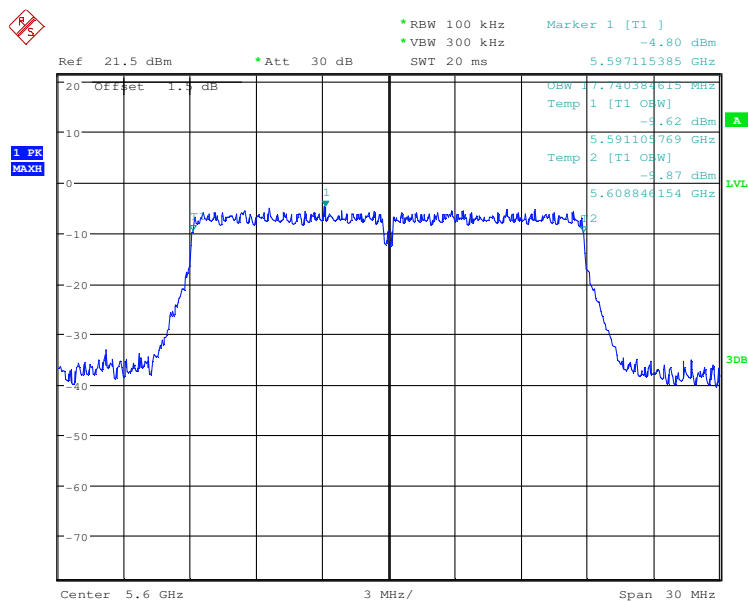
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Test mode:	802.11n(HT20)	Frequency(MHz):	5500
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Test mode:	802.11n(HT20)	Frequency(MHz):	5600
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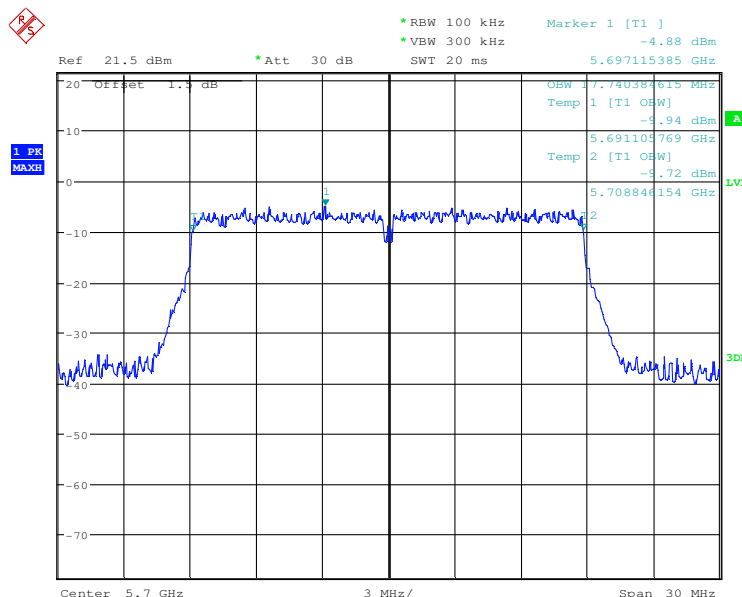


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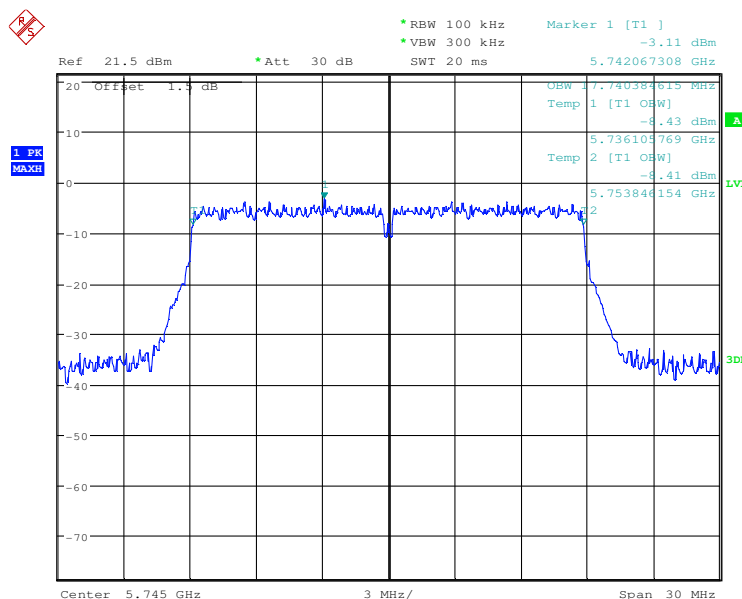
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Test mode:	802.11n(HT20)	Frequency(MHz):	5700
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Test mode:	802.11n(HT20)	Frequency(MHz):	5745
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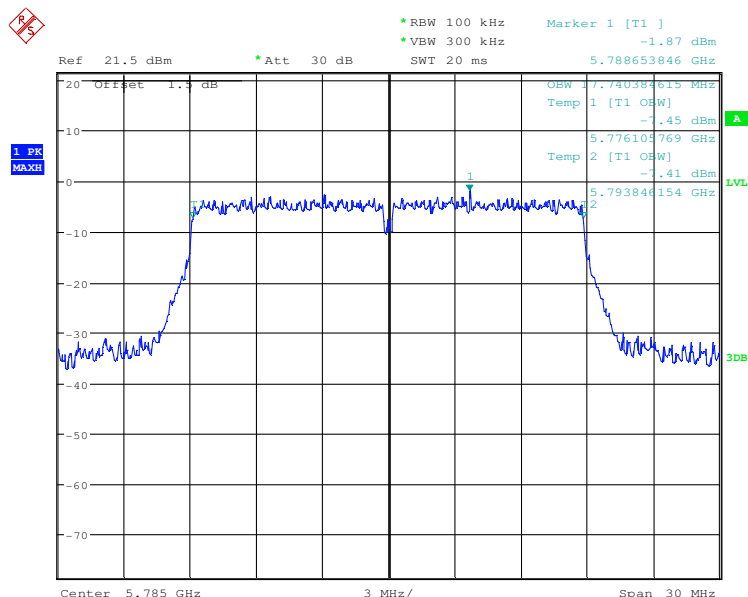
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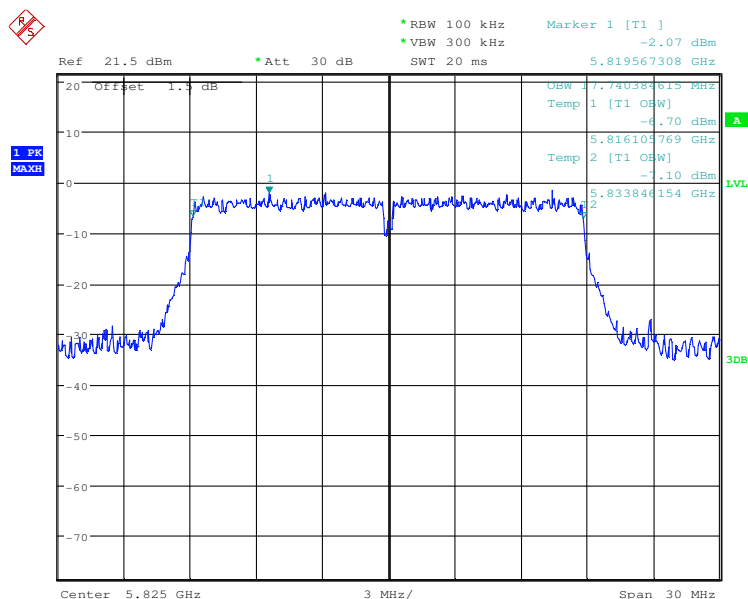
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Test mode:	802.11n(HT20)	Frequency(MHz):	5785
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Test mode:	802.11n(HT20)	Frequency(MHz):	5825
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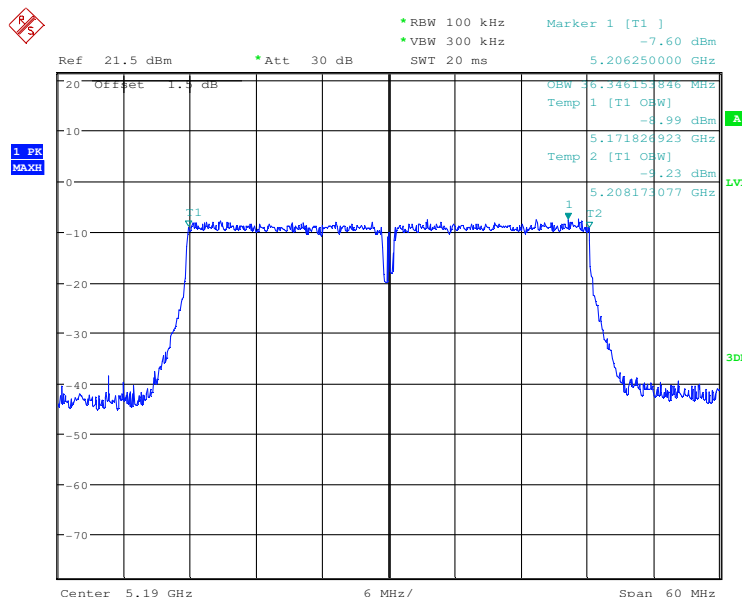


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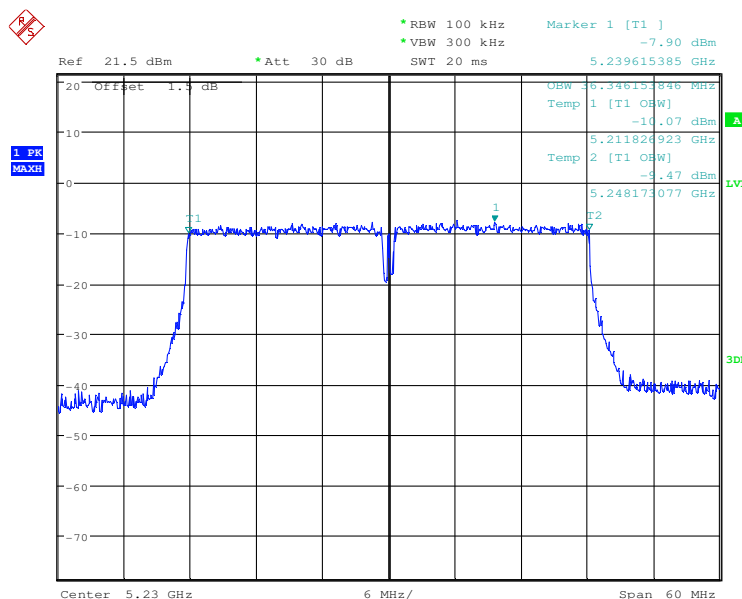
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Test mode:	802.11n(HT40)	Frequency(MHz):	5190
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Test mode:	802.11n(HT40)	Frequency(MHz):	5230
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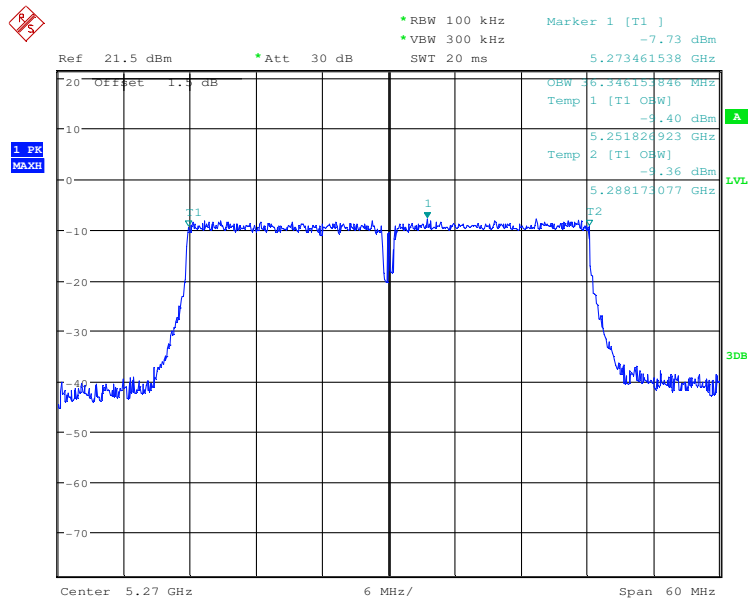
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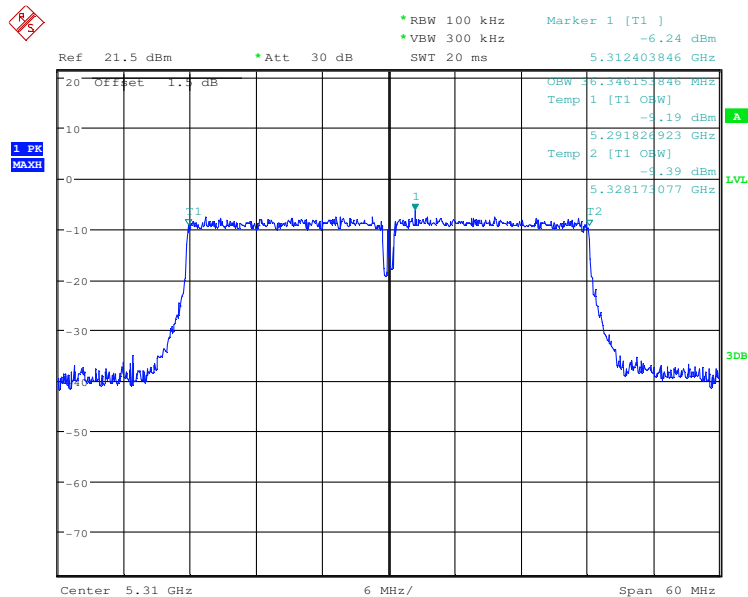
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Test mode:	802.11n(HT40)	Frequency(MHz):	5270
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Test mode:	802.11n(HT40)	Frequency(MHz):	5310
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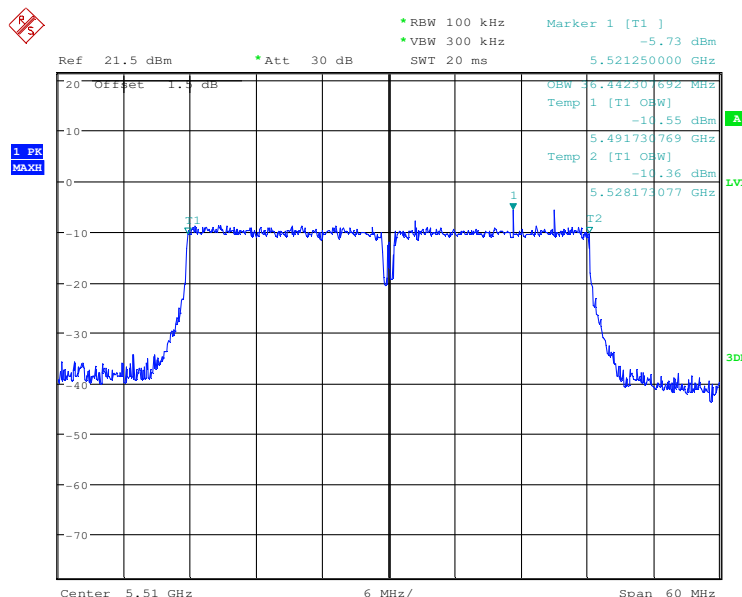


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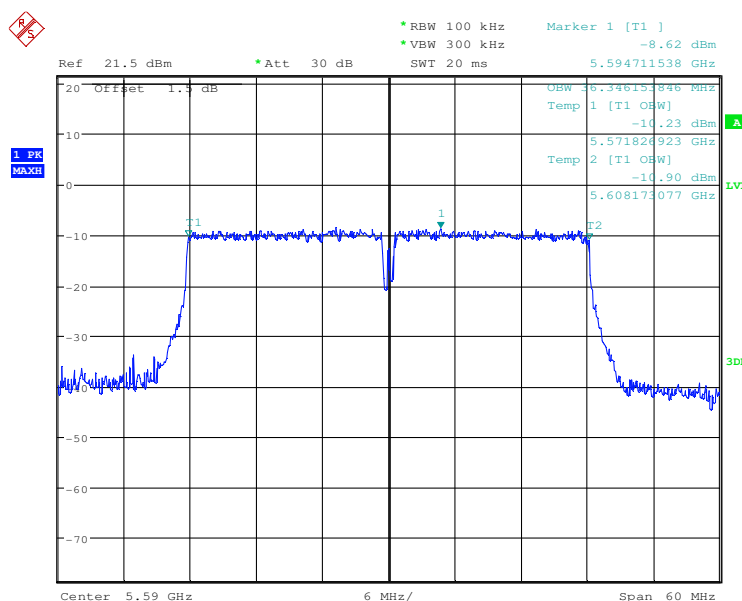
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Test mode:	802.11n(HT40)	Frequency(MHz):	5510
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Test mode:	802.11n(HT40)	Frequency(MHz):	5590
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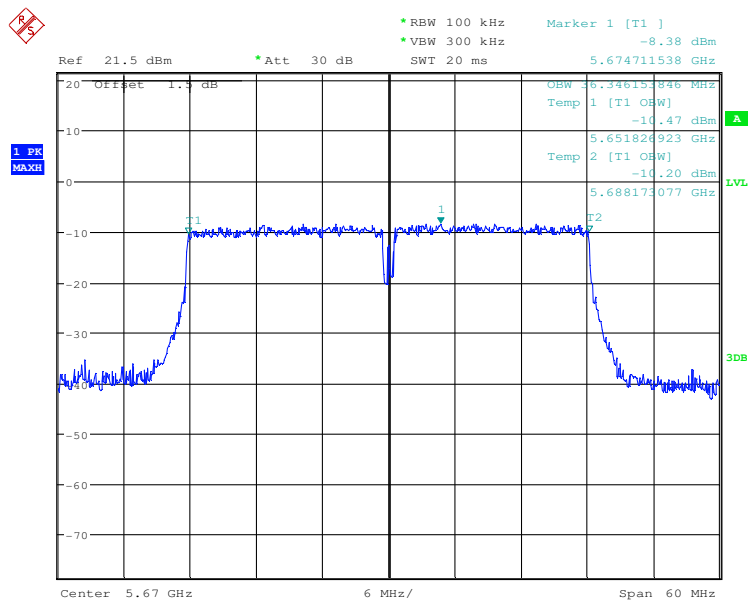
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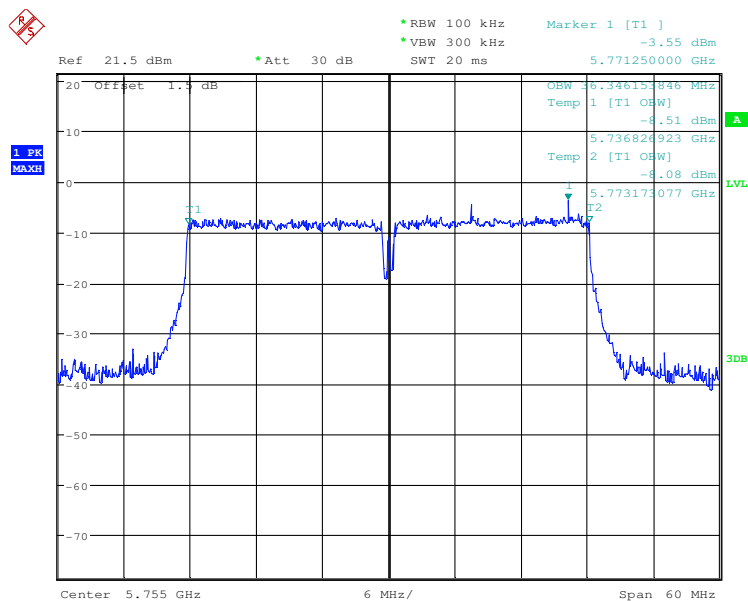
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Test mode:	802.11n(HT40)	Frequency(MHz):	5670
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Test mode:	802.11n(HT40)	Frequency(MHz):	5755
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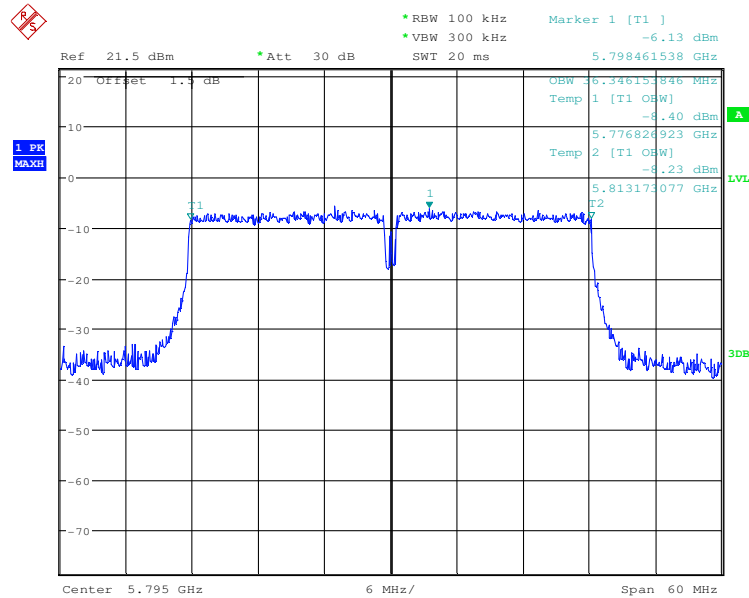


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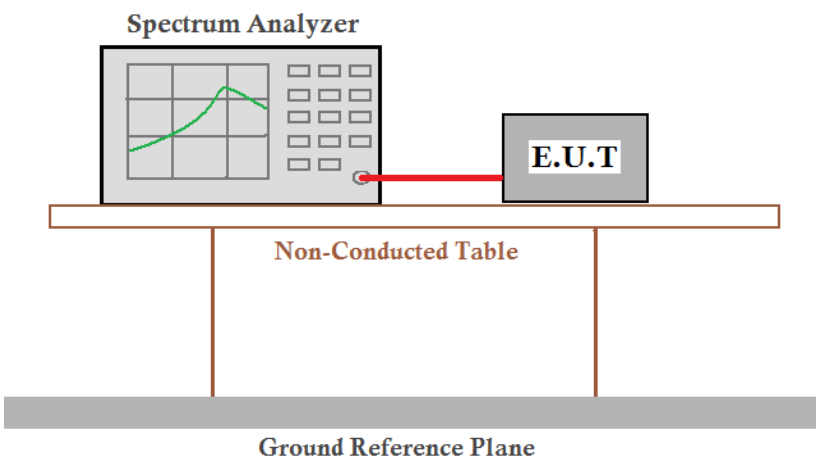
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Test mode:	802.11n(HT40)	Frequency(MHz):	5795
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6.5 6dB Emission Bandwidth

Test Requirement:	47 CFR Part 15 Section 15.407(e)	
Test Method:	ANSI C63.10: 2013	
Test Setup:		
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 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5725-5850MHz	At least 500kHz
Test Results:	Pass	



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Measurement Data:

802.11a mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5745	16.683	≥500	Pass
5785	16.683	≥500	Pass
5825	16.683	≥500	Pass

802.11n(HT20) mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5745	17.933	≥500	Pass
5785	17.933	≥500	Pass
5825	17.933	≥500	Pass

802.11n(HT40) mode			
Frequency (MHz)	6dB Occupy Bandwidth (MHz)	Limit (kHz)	Result
5755	36.731	≥500	Pass
5795	36.731	≥500	Pass

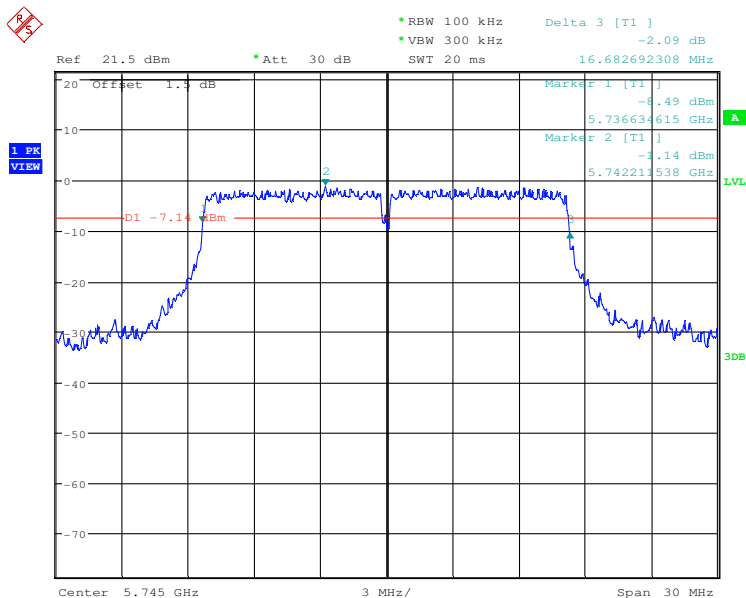


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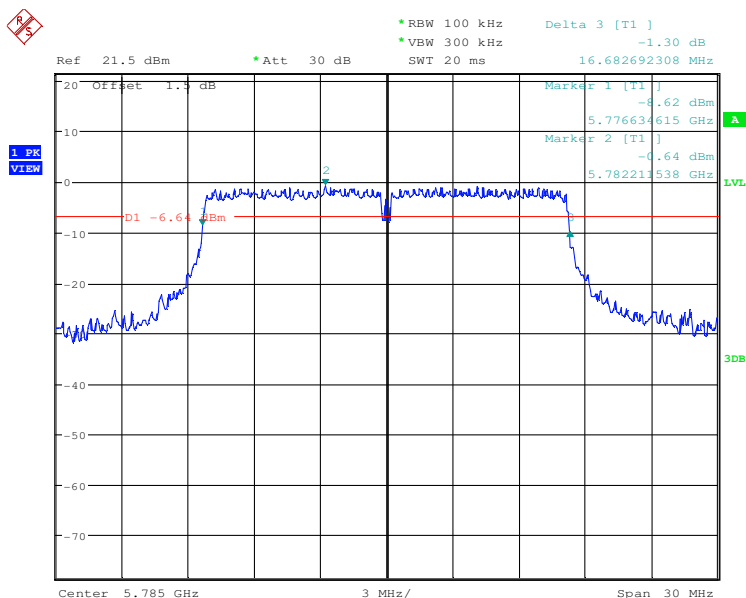
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Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5745
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Test mode:	802.11a	Frequency(MHz):	5785
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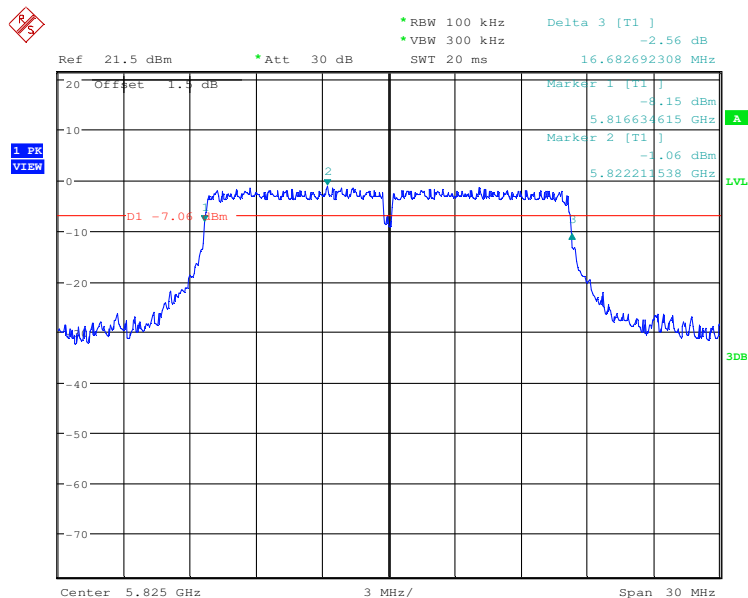
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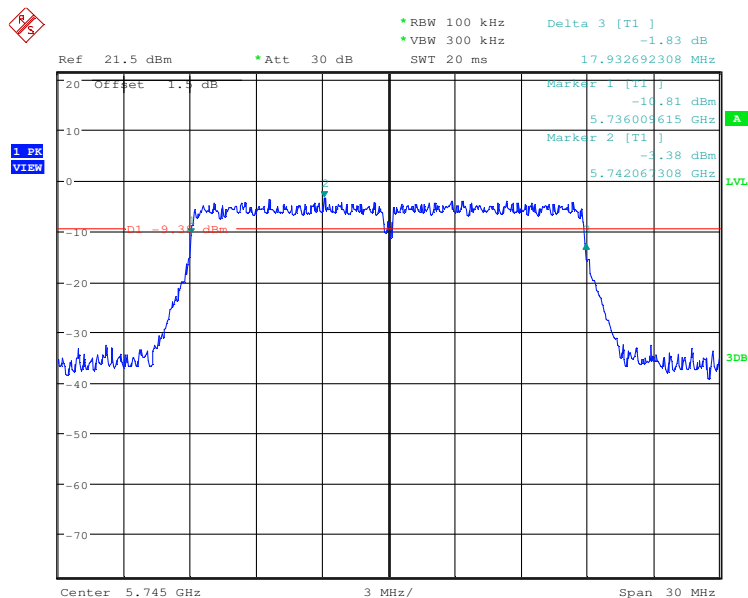
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Test mode:	802.11a	Frequency(MHz):	5825
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Test mode:	802.11n(HT20)	Frequency(MHz):	5745
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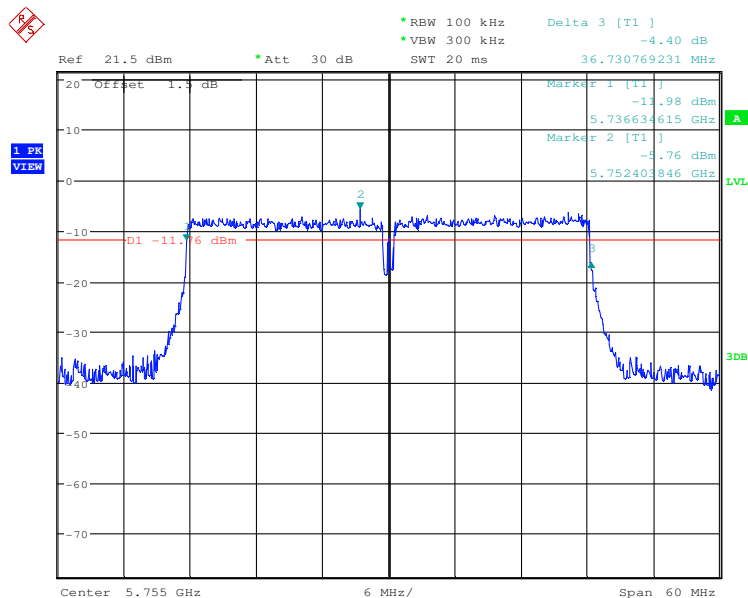
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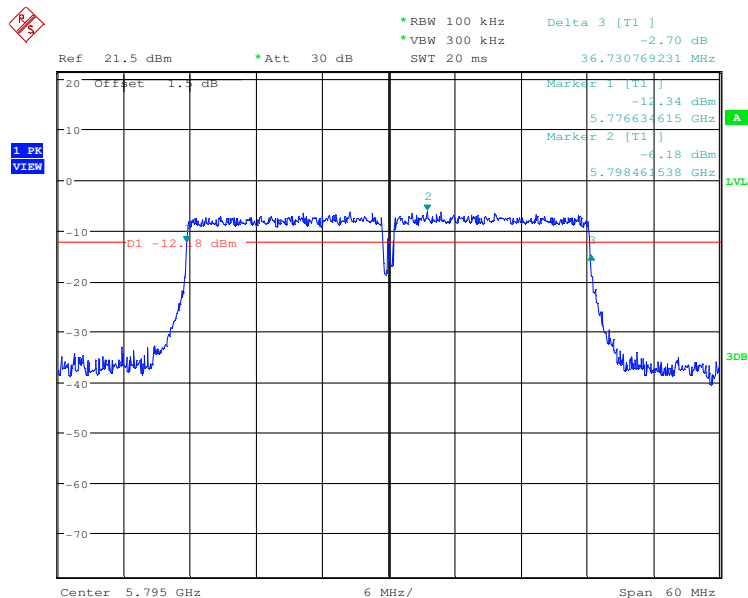
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Test mode:	802.11n(HT40)	Frequency(MHz):	5755
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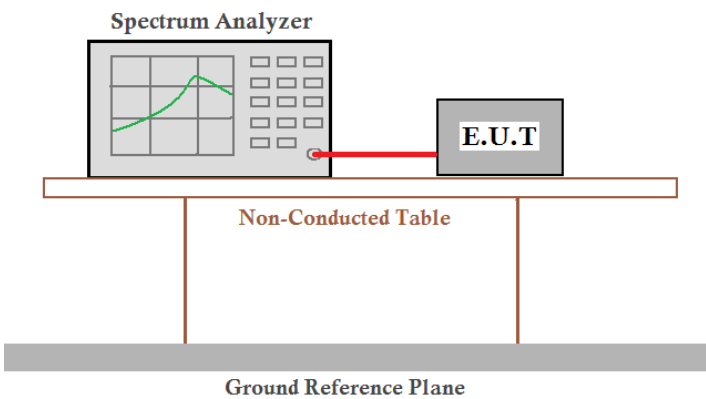


Test mode:	802.11n(HT40)	Frequency(MHz):	5795
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6.6 Power Spectral Density

Test Requirement:	47 CFR Part 15 Section 15.407(a)	
Test Method:	ANSI C63.10: 2013	
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 6Mbps of rate is the worst case of 802.11a; MCSO of rate is the worst case of 802.11n(HT20); MCSO of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.	
Limit:	Frequency Band	Limit
	5150-5250MHz	The power spectral density less than 11dBm/1MHz
	5250-5350MHz	The power spectral density less than 11dBm/1MHz
	5470-5725MHz	The power spectral density less than 11dBm/1MHz
	5725-5850MHz	The power spectral density less than 30dBm/500kHz
Test Results:	Pass	



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Measurement Data:

802.11a mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5180	1.82	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5200	1.64	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5240	1.25	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5260	1.50	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5300	1.27	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5320	1.15	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5500	0.58	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5600	0.33	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5700	0.33	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5745	-0.98	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5785	-1.87	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5825	-0.01	$\leq 30\text{dBm}/500\text{kHz}$	Pass

802.11n(HT20) mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5180	-0.55	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5200	-1.45	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5240	-1.18	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5260	-1.33	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5300	-1.21	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5320	-1.39	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5500	-2.26	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5600	-1.67	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5700	-1.93	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5745	-3.22	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5785	-3.71	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5825	-2.18	$\leq 30\text{dBm}/500\text{kHz}$	Pass

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802.11n(HT40) mode			
Frequency (MHz)	Power Spectral Density	Limit	Result
5190	-3.16	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5230	-4.25	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5270	-4.23	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5310	-4.82	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5510	-5.01	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5590	-5.87	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5670	-5.47	$\leq 11\text{dBm}/1\text{MHz}$	Pass
5755	-7.40	$\leq 30\text{dBm}/500\text{kHz}$	Pass
5795	-5.94	$\leq 30\text{dBm}/500\text{kHz}$	Pass

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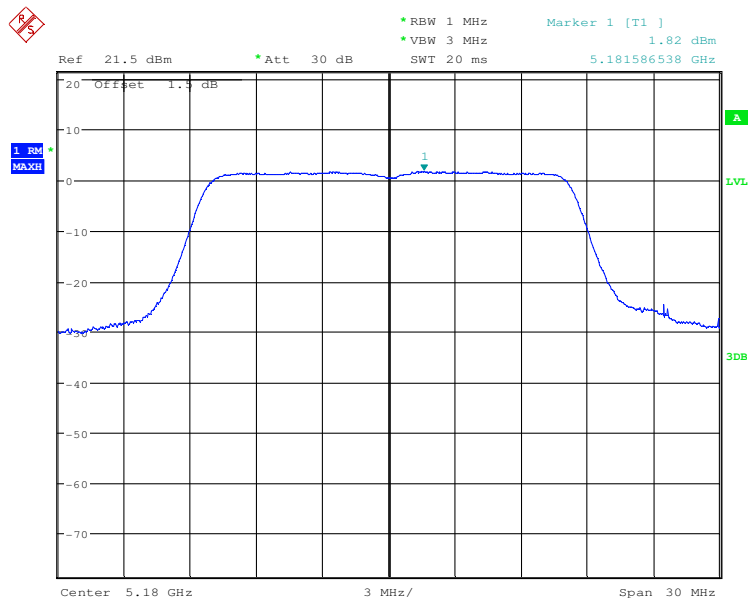


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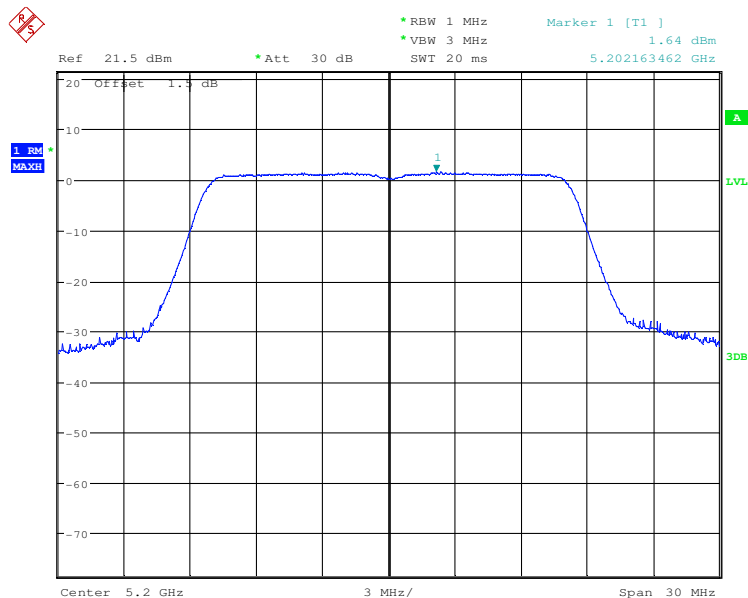
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Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180
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Test mode:	802.11a	Frequency(MHz):	5200
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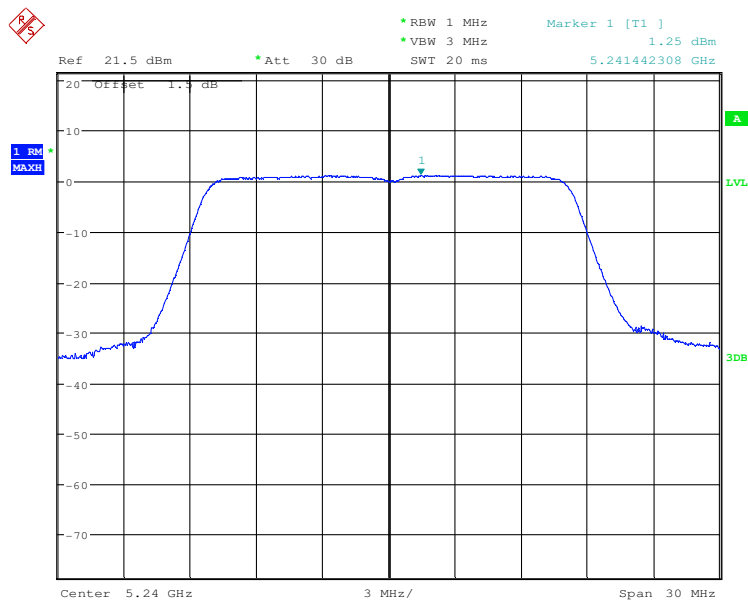
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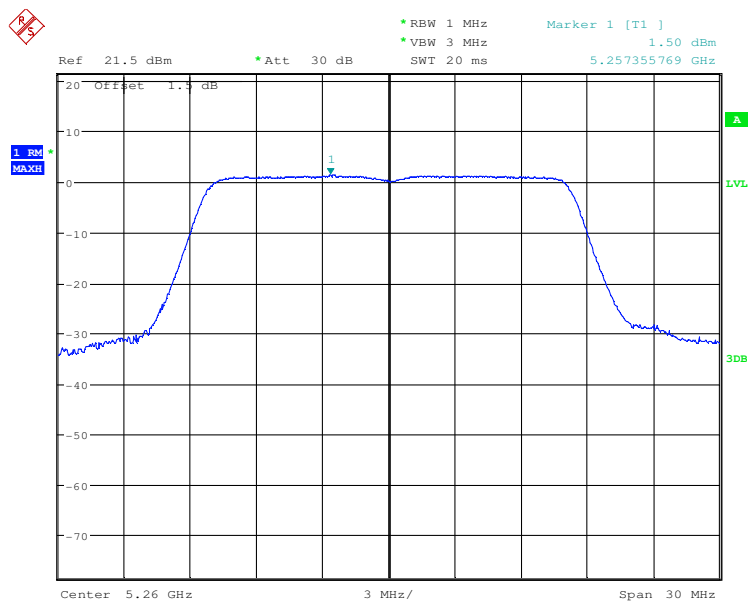
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Test mode:	802.11a	Frequency(MHz):	5240
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Test mode:	802.11a	Frequency(MHz):	5260
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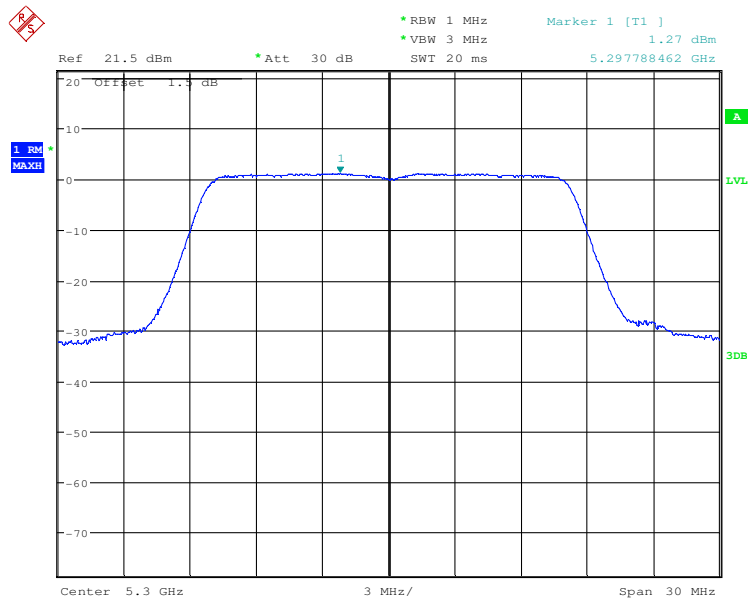
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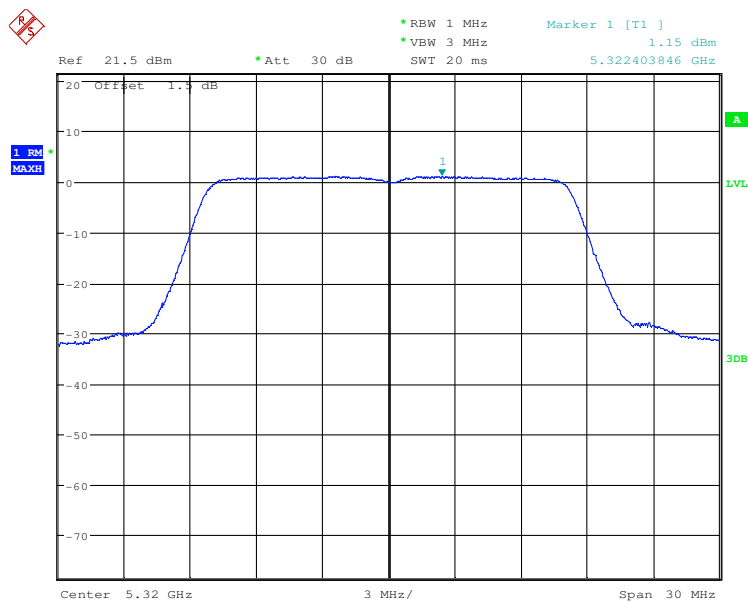
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Test mode:	802.11a	Frequency(MHz):	5300
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Test mode:	802.11a	Frequency(MHz):	5320
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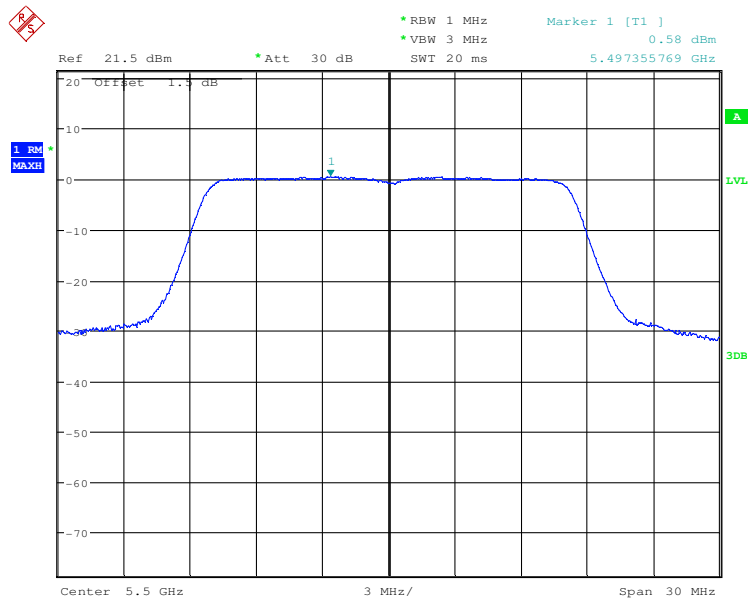
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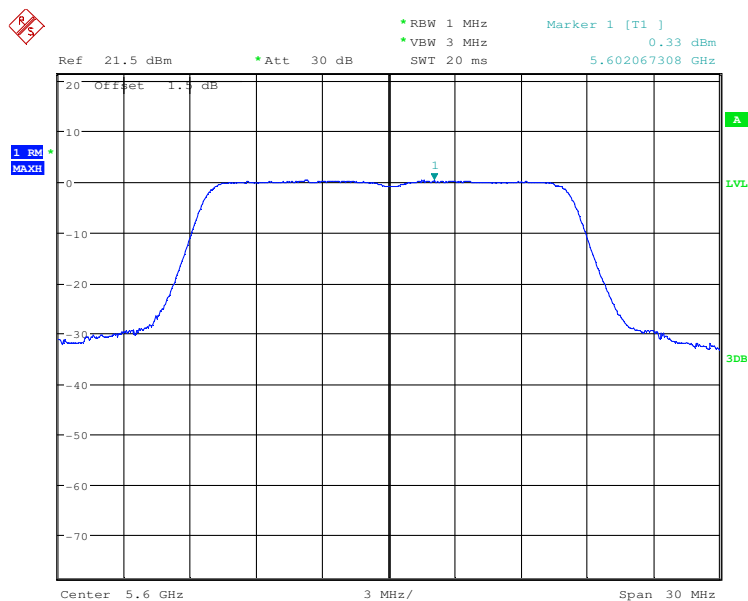
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Test mode:	802.11a	Frequency(MHz):	5500
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Test mode:	802.11a	Frequency(MHz):	5600
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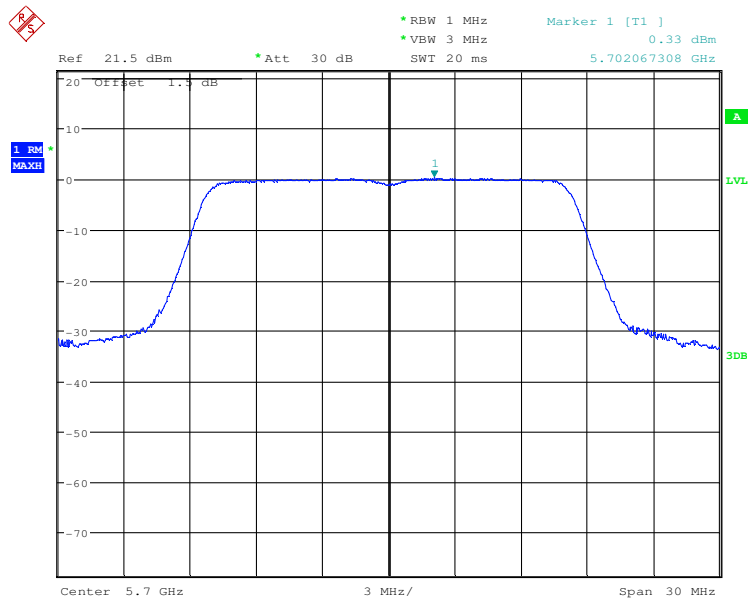
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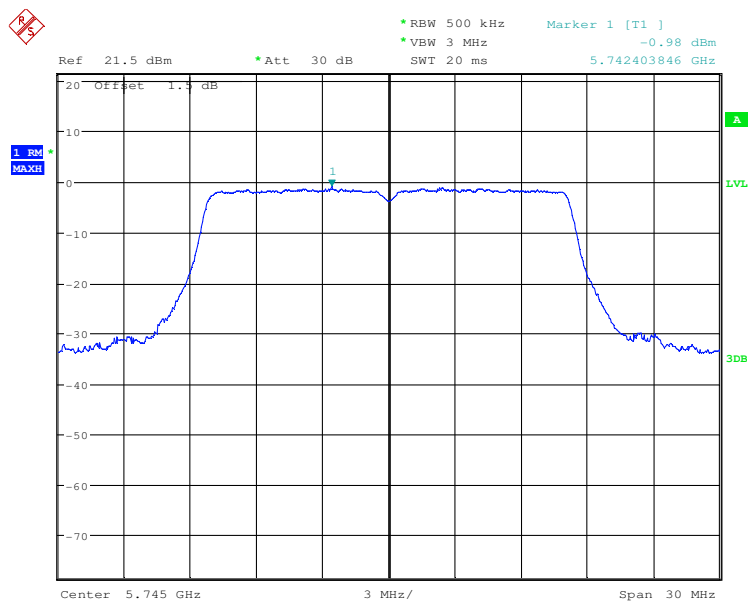
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Test mode:	802.11a	Frequency(MHz):	5700
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Test mode:	802.11a	Frequency(MHz):	5745
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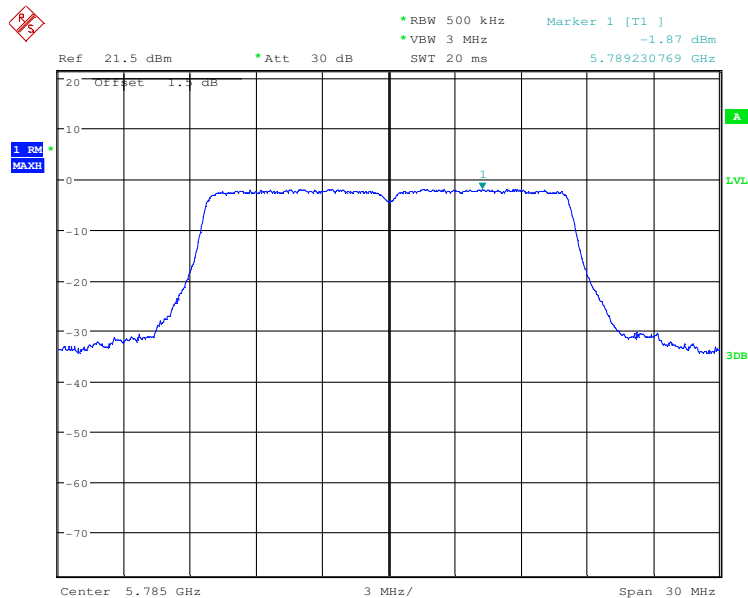
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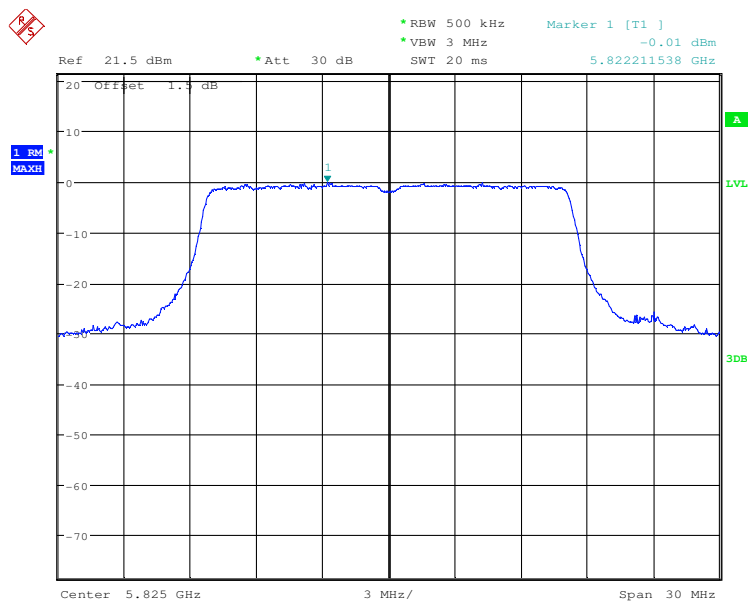
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Test mode:	802.11a	Frequency(MHz):	5785
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Test mode:	802.11a	Frequency(MHz):	5825
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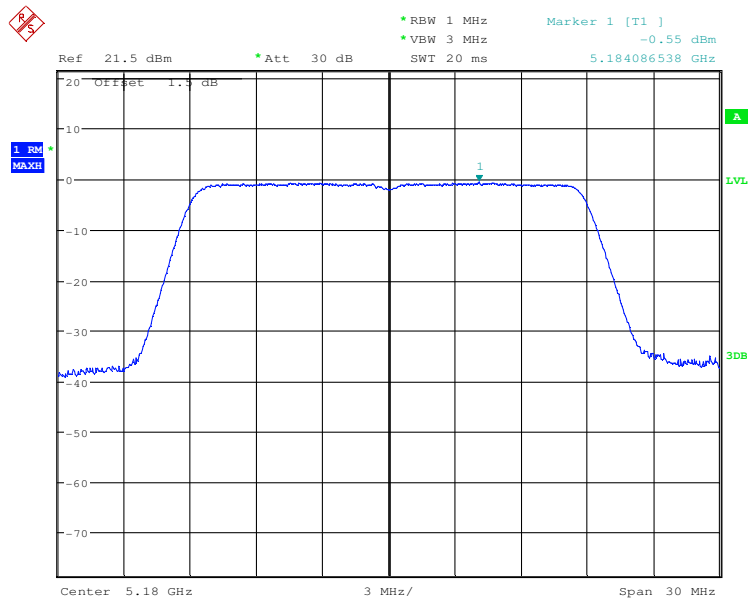
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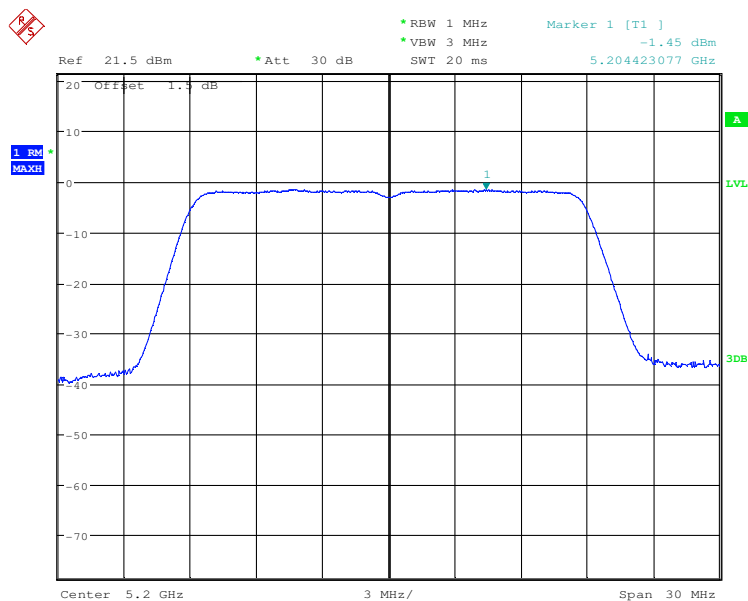
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Test mode:	802.11n(HT20)	Frequency(MHz):	5180
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Test mode:	802.11n(HT20)	Frequency(MHz):	5200
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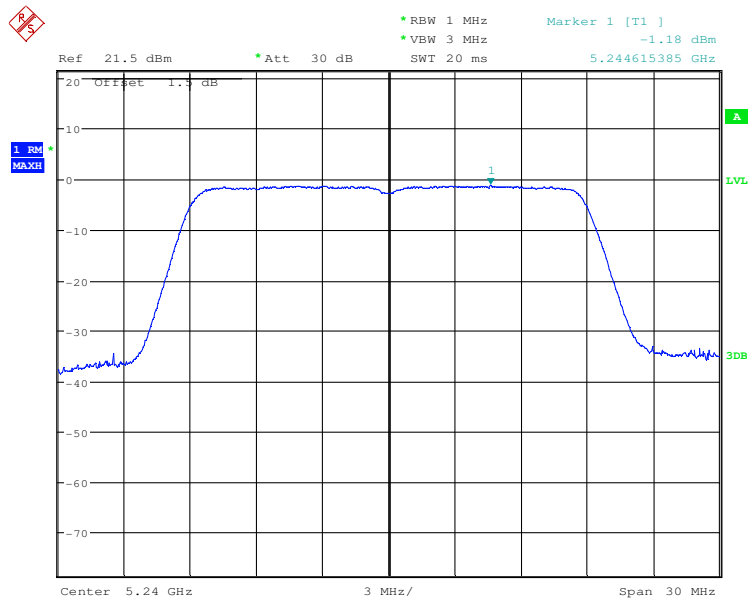
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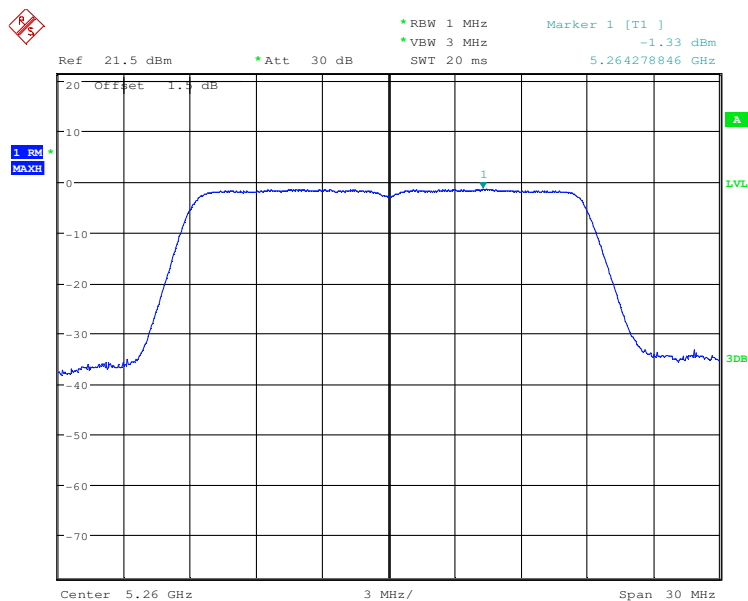
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Test mode:	802.11n(HT20)	Frequency(MHz):	5240
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Test mode:	802.11n(HT20)	Frequency(MHz):	5260
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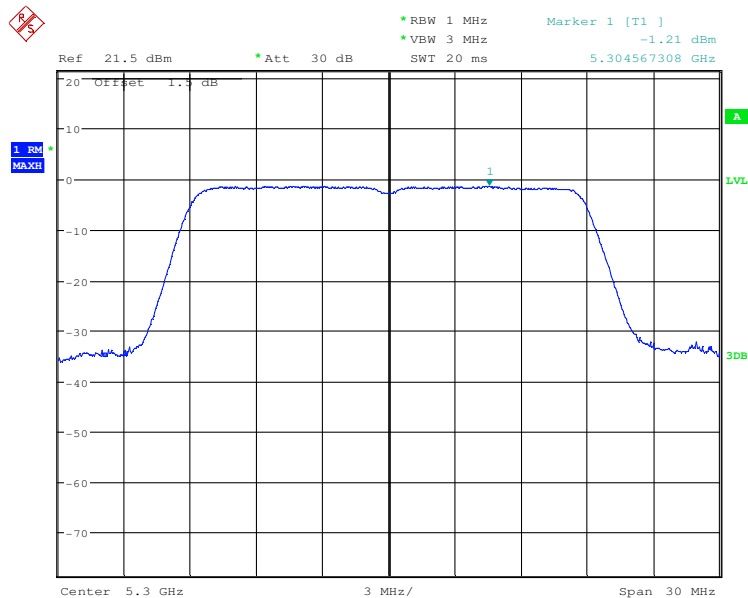
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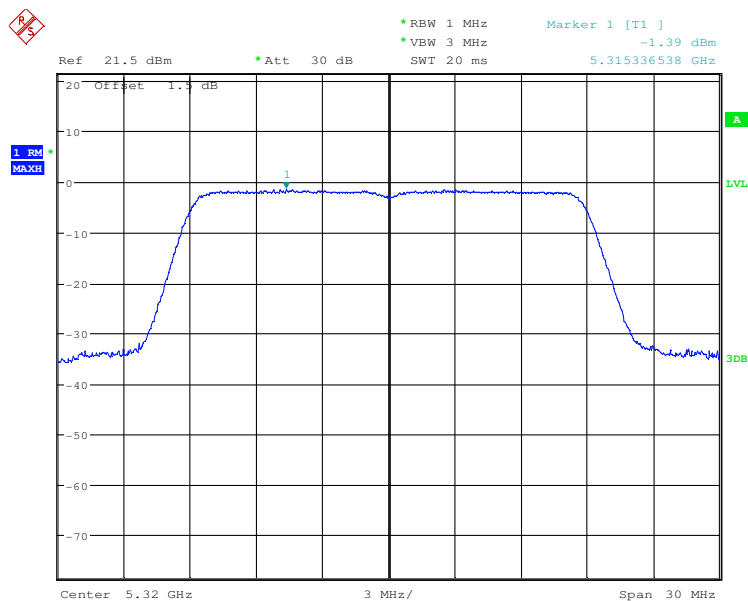
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Test mode:	802.11n(HT20)	Frequency(MHz):	5300
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Test mode:	802.11n(HT20)	Frequency(MHz):	5320
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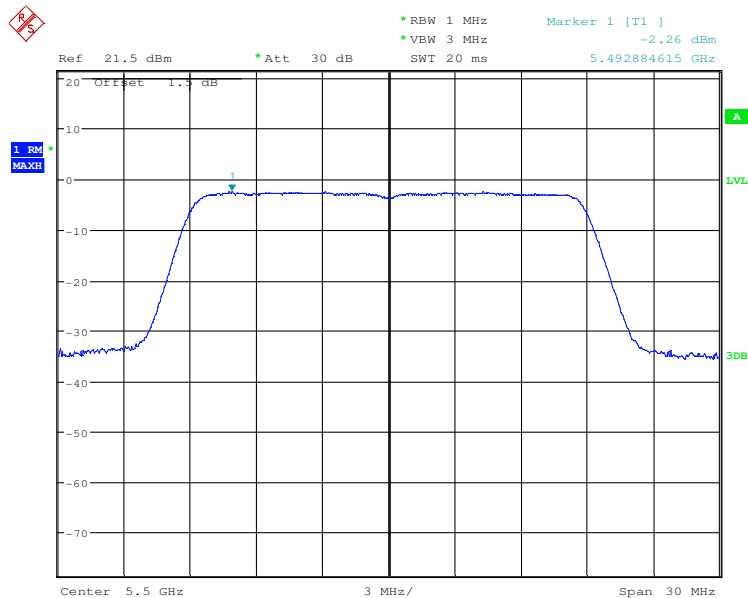
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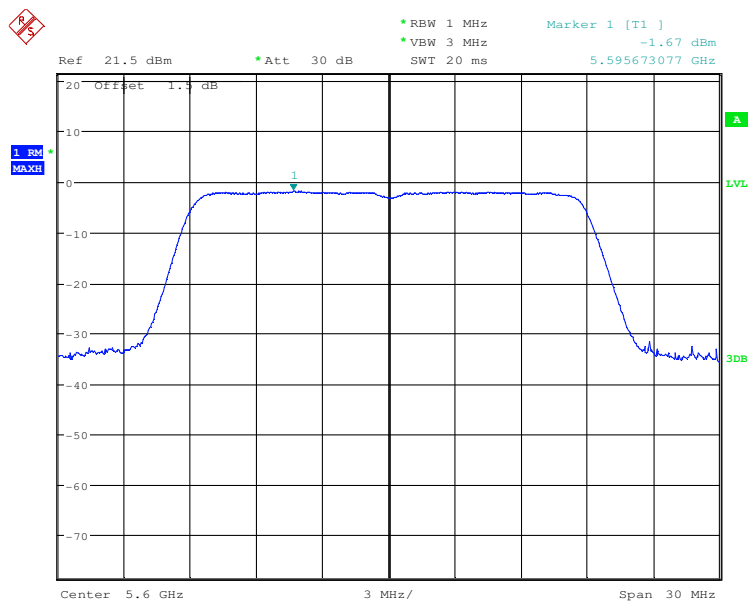
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Test mode:	802.11n(HT20)	Frequency(MHz):	5500
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Test mode:	802.11n(HT20)	Frequency(MHz):	5600
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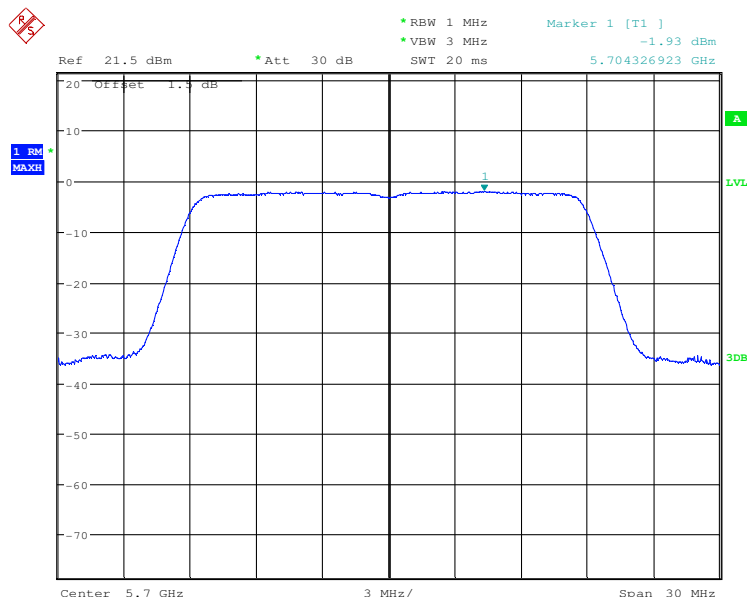
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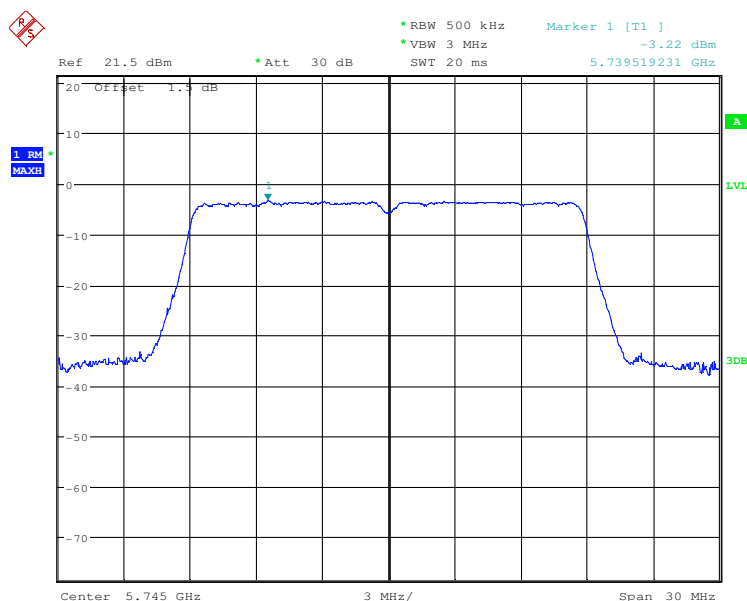
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Test mode:	802.11n(HT20)	Frequency(MHz):	5700
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Test mode:	802.11n(HT20)	Frequency(MHz):	5745
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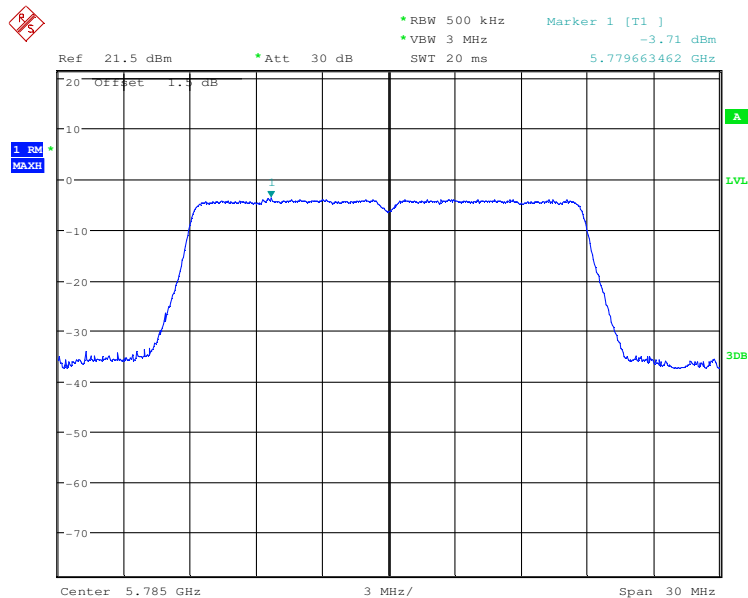
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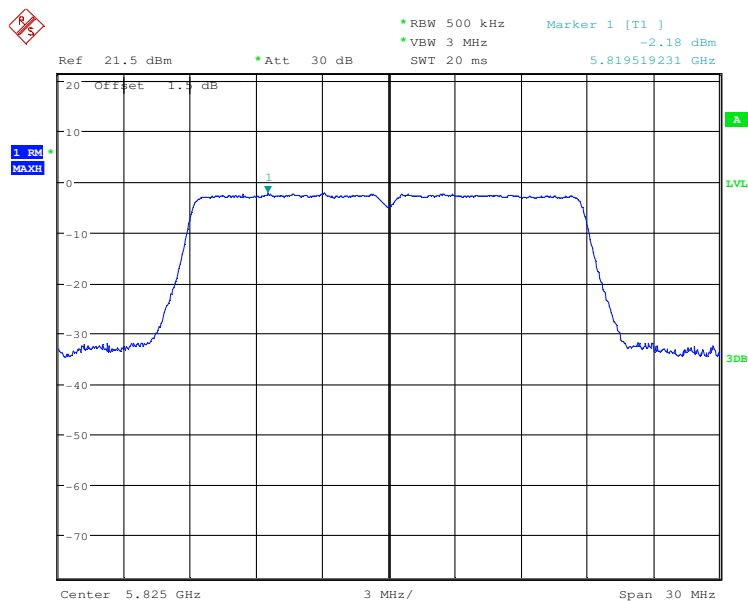
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Test mode:	802.11n(HT20)	Frequency(MHz):	5785
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Test mode:	802.11n(HT20)	Frequency(MHz):	5825
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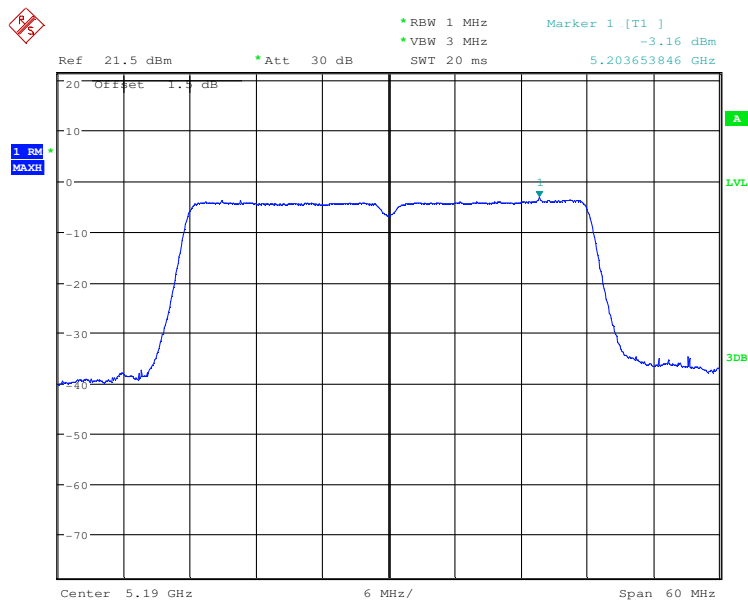
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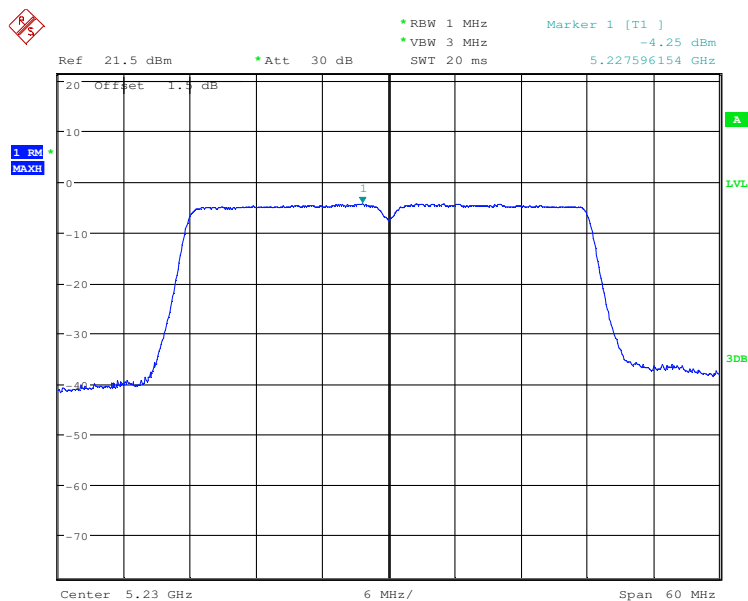
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Test mode:	802.11n(HT40)	Frequency(MHz):	5190
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Test mode:	802.11n(HT40)	Frequency(MHz):	5230
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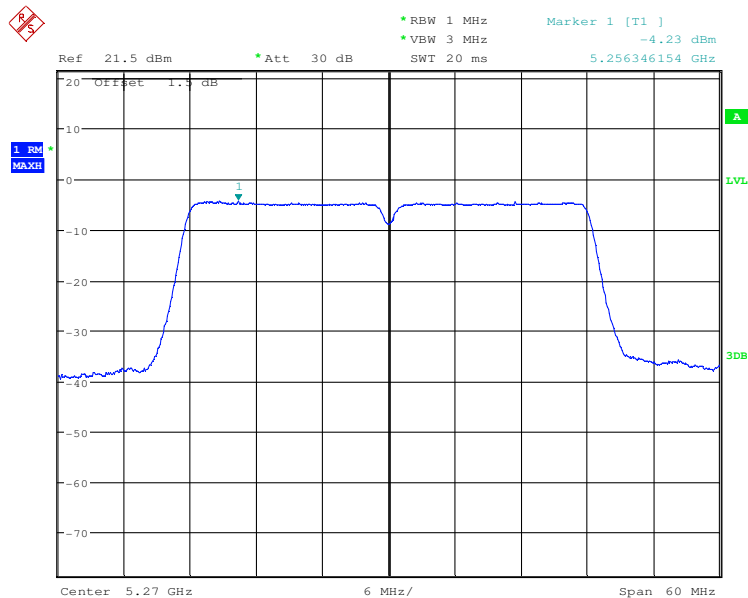
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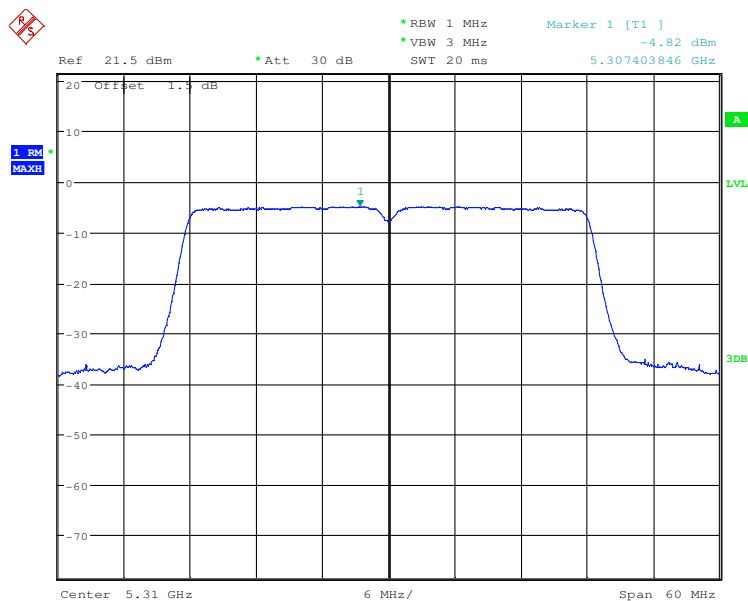
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Test mode:	802.11n(HT40)	Frequency(MHz):	5270
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Test mode:	802.11n(HT40)	Frequency(MHz):	5310
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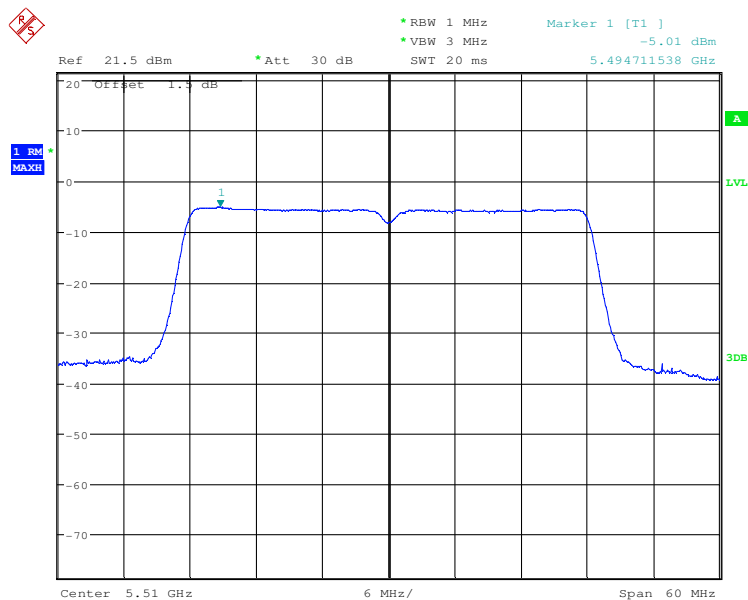
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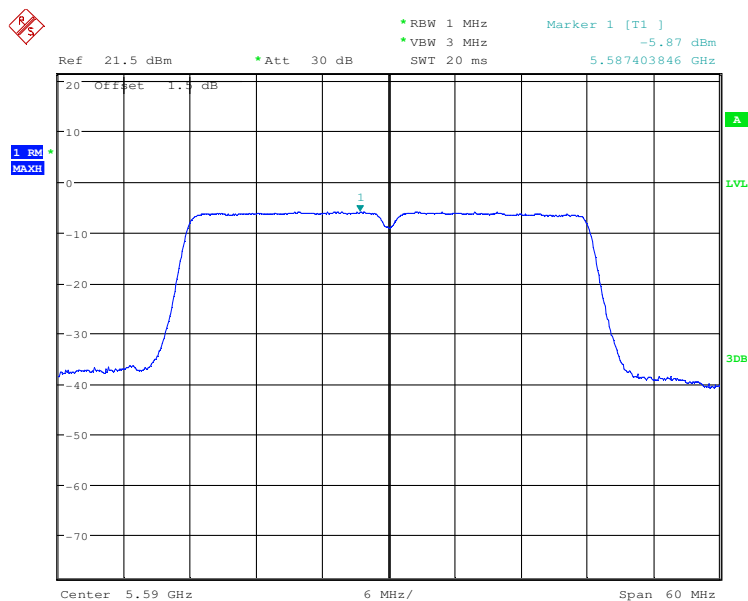
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Test mode:	802.11n(HT40)	Frequency(MHz):	5510
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Test mode:	802.11n(HT40)	Frequency(MHz):	5590
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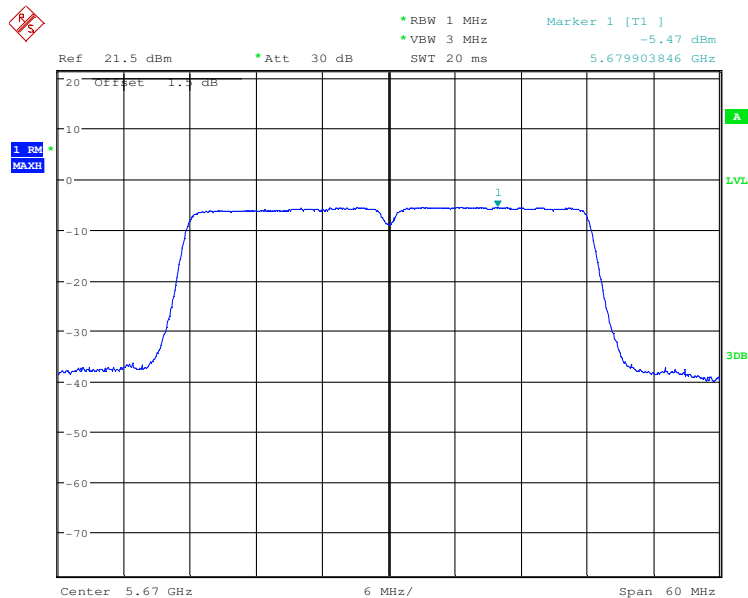
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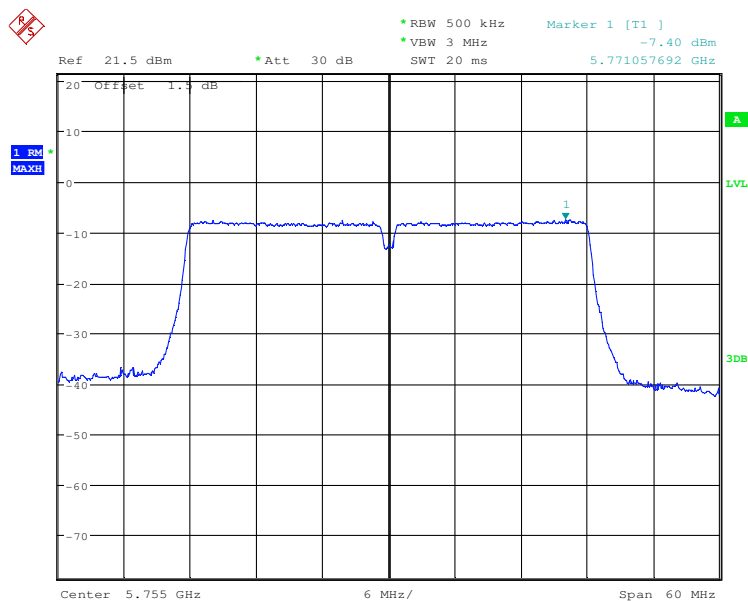
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Test mode:	802.11n(HT40)	Frequency(MHz):	5670
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Test mode:	802.11n(HT40)	Frequency(MHz):	5755
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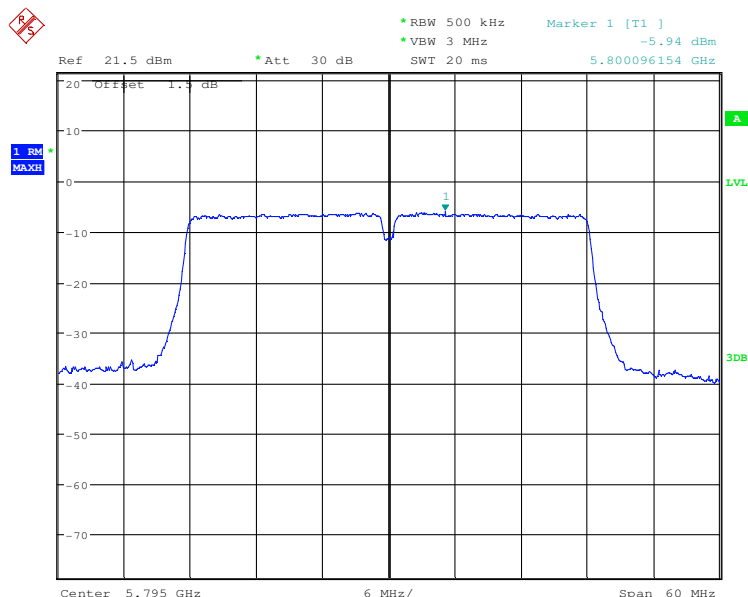


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Test mode:	802.11n(HT40)	Frequency(MHz):	5795
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6.7 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15 Section 15.407(b)
Test Method:	ANSI C63.10: 2013
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)
Test Setup:	

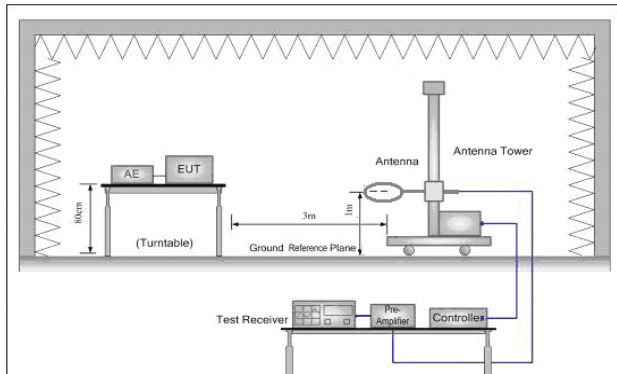


Figure 1. 30MHz to 1GHz

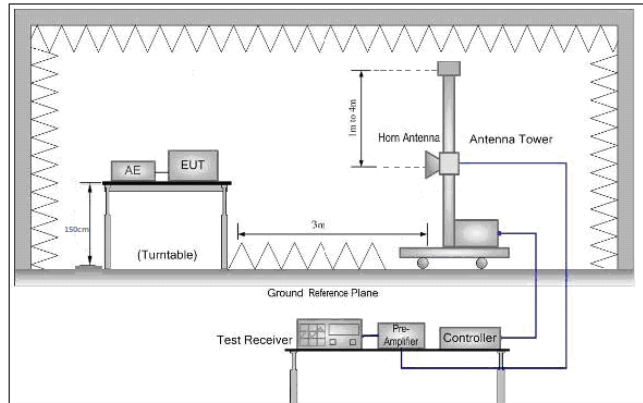


Figure 2. Above 1 GHz

Test Procedure:	<ol style="list-style-type: none"> For below 1GHz test, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. For above 1GHz test, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to height 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. Test the EUT in the lowest channel, the middle channel, the Highest channel. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.



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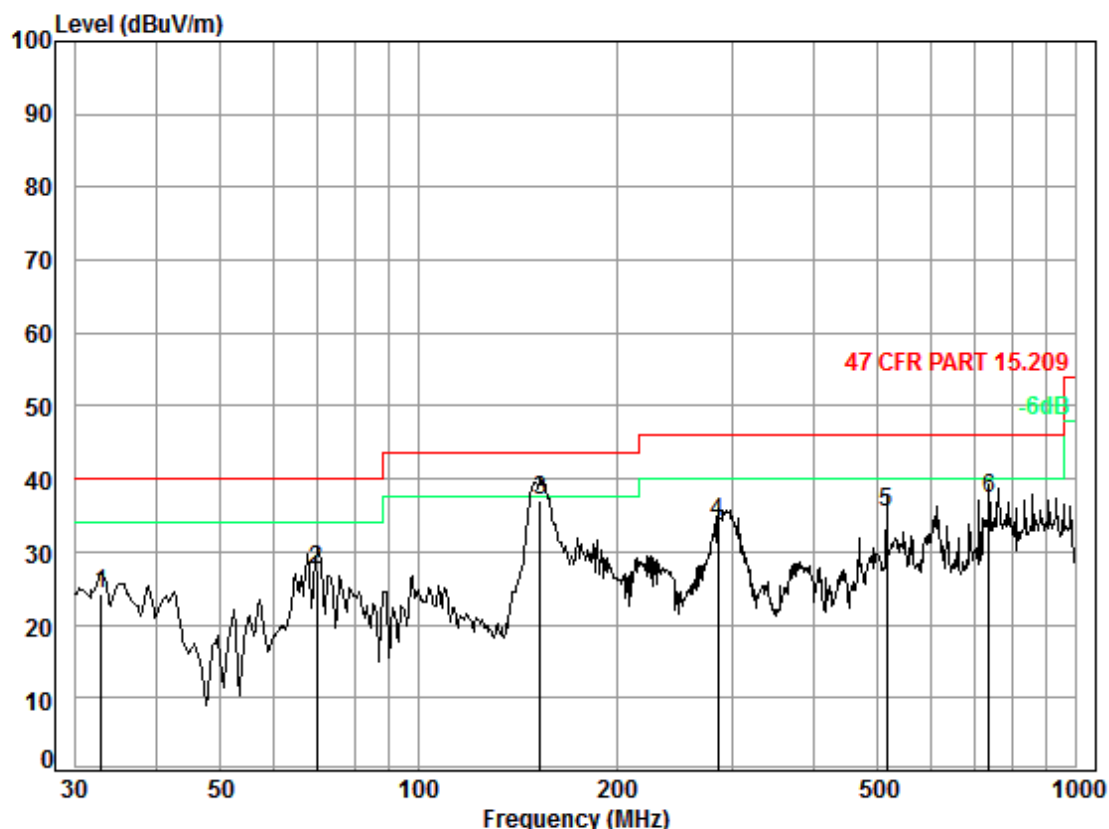
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Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCSO of rate is the worst case of 802.11n(HT20); MCSO of rate is the worst case of 802.11n(HT40). For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11a 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



6.7.1 Radiated emission below 1GHz

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



Condition: 47 CFR PART 15.209 3m 3142C Vertical

Job No. : 3796CR

Test Mode: TX mode

	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	32.86	0.60	17.10	27.35	33.86	24.21	40.00	-15.79
2	69.84	0.80	6.90	27.25	47.03	27.48	40.00	-12.52
3	153.20	1.32	9.19	26.89	53.48	37.10	43.50	-6.40
4	284.98	1.84	13.24	26.44	45.31	33.95	46.00	-12.05
5	515.44	2.62	18.23	27.67	42.33	35.51	46.00	-10.49
6	737.07	3.02	21.65	27.37	39.91	37.21	46.00	-8.79

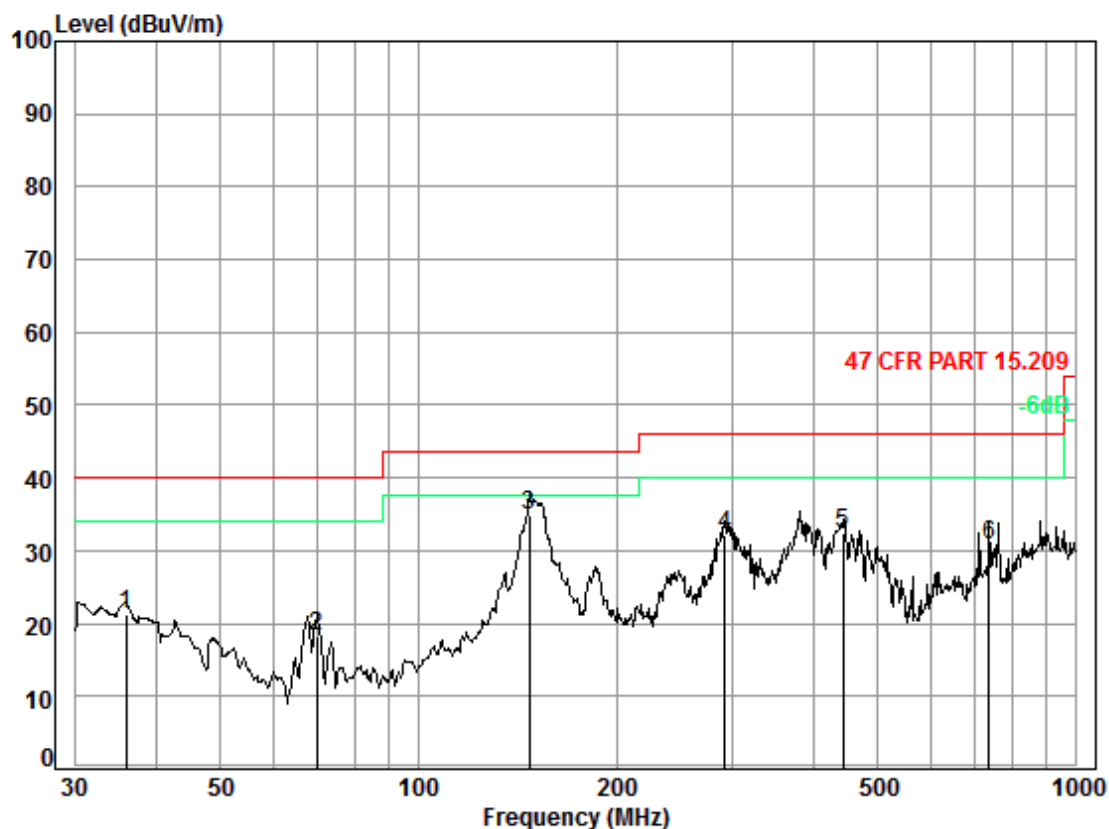


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Test mode:	Transmitting mode	Horizontal
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Condition: 47 CFR PART 15.209 3m 3142C Horizontal

Job No. : 3796CR

Test Mode: TX mode

		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	35.87	0.60	15.41	27.33	32.46	21.14	40.00	-18.86
2	69.84	0.80	6.90	27.25	37.84	18.29	40.00	-21.71
3	147.40	1.31	8.77	26.92	51.66	34.82	43.50	-8.68
4	292.06	1.87	13.55	26.42	43.08	32.08	46.00	-13.92
5	441.74	2.38	16.73	27.40	40.71	32.42	46.00	-13.58
6	737.07	3.02	21.65	27.37	33.49	30.79	46.00	-15.21

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6.7.2 Transmitter emission above 1GHz

Test plot as follows:

Test mode:		802.11a		Frequency(MHz):		5180	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	
3759.831	6.82	33.12	38.85	46.20	47.29	74	-26.71	Vertical	
4805.903	6.42	34.71	39.24	46.70	48.59	74	-25.41	Vertical	
5748.972	7.69	35.79	39.21	48.75	53.02	74	-20.98	Vertical	
8435.572	9.60	35.83	38.69	44.47	51.21	74	-22.79	Vertical	
10360.000	9.92	37.13	37.89	44.20	53.36	74	-20.64	Vertical	
15540.000	12.97	39.38	41.17	41.43	52.61	74	-21.39	Vertical	
3800.469	6.80	33.15	38.87	47.83	48.91	74	-25.09	Horizontal	
4963.428	6.76	34.86	39.29	48.80	51.13	74	-22.87	Horizontal	
8345.370	9.57	35.82	38.75	46.19	52.83	74	-21.17	Horizontal	
9735.688	9.92	37.72	37.86	43.56	53.34	74	-20.66	Horizontal	
10360.000	9.92	37.13	37.89	41.96	51.12	74	-22.88	Horizontal	
15540.000	12.97	39.38	41.17	40.94	52.12	74	-21.88	Horizontal	

Test mode:		802.11a		Frequency(MHz):		5200	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	
3499.792	6.97	32.89	38.74	48.45	49.57	74	-24.43	Vertical	
4354.885	6.00	34.20	39.08	49.83	50.95	74	-23.05	Vertical	
6587.637	8.09	35.73	39.12	48.21	52.91	74	-21.09	Vertical	
8080.512	9.45	35.82	38.94	44.86	51.19	74	-22.81	Vertical	
10400.000	9.94	37.02	37.92	43.62	52.66	74	-21.34	Vertical	
15600.000	12.97	39.50	41.19	41.42	52.70	74	-21.30	Vertical	
3706.322	6.85	33.08	38.83	47.83	48.93	74	-25.07	Horizontal	
5017.076	6.86	34.90	39.30	48.38	50.84	74	-23.16	Horizontal	
7414.599	9.20	35.42	39.05	44.15	49.72	74	-24.28	Horizontal	
8330.431	9.56	35.82	38.76	44.52	51.14	74	-22.86	Horizontal	
10400.000	9.94	37.02	37.92	43.57	52.61	74	-21.39	Horizontal	
15600.000	12.97	39.50	41.19	41.33	52.61	74	-21.39	Horizontal	



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Test mode:		802.11a		Frequency(MHz):		5240		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	
3364.519	7.23	32.69	38.68	47.95	49.19	74	-24.81	Vertical	
4097.506	6.49	33.74	38.99	48.46	49.70	74	-24.30	Vertical	
4999.129	6.84	34.90	39.30	49.78	52.22	74	-21.78	Vertical	
8080.512	9.45	35.82	38.94	44.48	50.81	74	-23.19	Vertical	
10480.000	9.97	37.30	37.96	43.18	52.49	74	-21.51	Vertical	
15720.000	12.96	39.74	41.23	40.02	51.49	74	-22.51	Vertical	
3376.597	7.21	32.72	38.69	48.12	49.36	74	-24.64	Horizontal	
4039.191	6.61	33.60	38.97	48.72	49.96	74	-24.04	Horizontal	
8109.521	9.47	35.83	38.92	44.46	50.84	74	-23.16	Horizontal	
8853.696	9.72	35.97	38.41	43.90	51.18	74	-22.82	Horizontal	
10480.000	9.97	37.30	37.96	42.20	51.51	74	-22.49	Horizontal	
15720.000	12.96	39.74	41.23	40.91	52.38	74	-21.62	Horizontal	

Test mode:		802.11a		Frequency(MHz):		5260		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	47.47	48.68	74	-25.32	Vertical	
4754.514	6.31	34.67	39.22	47.74	49.50	74	-24.50	Vertical	
7838.091	9.39	35.69	39.01	44.42	50.49	74	-23.51	Vertical	
9494.509	10.05	37.11	38.00	43.47	52.63	74	-21.37	Vertical	
10520.000	9.93	37.07	37.90	43.69	52.79	74	-21.21	Vertical	
15780.000	12.97	39.44	41.18	42.31	53.54	74	-20.46	Vertical	
3640.505	6.89	33.03	38.80	47.83	48.95	74	-25.05	Horizontal	
4628.432	6.03	34.60	39.18	49.18	50.63	74	-23.37	Horizontal	
7838.091	9.39	35.69	39.01	45.30	51.37	74	-22.63	Horizontal	
9309.210	9.94	36.75	38.12	43.42	51.99	74	-22.01	Horizontal	
10520.000	9.93	37.07	37.90	44.59	53.69	74	-20.31	Horizontal	
15780.000	12.97	39.44	41.18	42.24	53.47	74	-20.53	Horizontal	

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Test mode:		802.11a		Frequency(MHz):		5300		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	48.60	49.81	74	-24.19	Vertical	
4703.674	6.20	34.64	39.20	48.76	50.40	74	-23.60	Vertical	
7427.896	9.22	35.43	39.05	46.35	51.95	74	-22.05	Vertical	
9193.181	9.87	36.49	38.19	44.14	52.31	74	-21.69	Vertical	
10600.000	9.95	37.09	37.93	43.21	52.32	74	-21.68	Vertical	
15900.000	12.97	39.56	41.20	41.79	53.12	74	-20.88	Vertical	
3406.983	7.15	32.79	38.70	47.36	48.60	74	-25.40	Horizontal	
4678.458	6.14	34.63	39.20	48.79	50.36	74	-23.64	Horizontal	
7796.073	9.38	35.66	39.02	46.33	52.35	74	-21.65	Horizontal	
9193.181	9.87	36.49	38.19	43.69	51.86	74	-22.14	Horizontal	
10600.000	9.95	37.09	37.93	43.59	52.70	74	-21.30	Horizontal	
15900.000	12.97	39.56	41.20	41.76	53.09	74	-20.91	Horizontal	

Test mode:		802.11a		Frequency(MHz):		5320		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	
3666.690	6.87	33.05	38.81	46.90	48.01	74	-25.99	Vertical	
4678.458	6.14	34.63	39.20	46.81	48.38	74	-25.62	Vertical	
7782.116	9.37	35.64	39.02	45.40	51.39	74	-22.61	Vertical	
9579.950	10.00	37.26	37.95	43.55	52.86	74	-21.14	Vertical	
10640.000	10.39	38.23	38.47	43.43	53.58	74	-20.42	Vertical	
15960.000	16.25	40.99	41.69	37.16	52.71	74	-21.29	Vertical	
3394.796	7.17	32.77	38.69	47.67	48.92	74	-25.08	Horizontal	
4603.619	5.97	34.58	39.17	47.69	49.07	74	-24.93	Horizontal	
7481.323	9.29	35.44	39.04	44.68	50.37	74	-23.63	Horizontal	
8806.232	9.71	35.96	38.44	43.24	50.47	74	-23.53	Horizontal	
10640.000	10.39	38.23	38.47	42.95	53.10	74	-20.90	Horizontal	
15960.000	16.25	40.99	41.69	37.94	53.49	74	-20.51	Horizontal	

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Test mode:		802.11a		Frequency(MHz):		5500		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	
3310.698	7.33	32.55	38.65	45.33	46.56	74	-27.44	Vertical	
4164.117	6.36	33.90	39.01	45.76	47.01	74	-26.99	Vertical	
4840.471	6.50	34.74	39.25	46.14	48.13	74	-25.87	Vertical	
8037.194	9.44	35.81	38.97	42.86	49.14	74	-24.86	Vertical	
11000.000	9.93	37.07	37.90	42.60	51.70	74	-22.30	Vertical	
16500.000	12.97	39.44	41.18	41.98	53.21	74	-20.79	Vertical	
3275.297	7.40	32.45	38.64	45.63	46.84	74	-27.16	Horizontal	
4003.166	6.68	33.51	38.95	47.02	48.26	74	-25.74	Horizontal	
4857.848	6.54	34.76	39.25	47.46	49.51	74	-24.49	Horizontal	
7589.333	9.33	35.48	39.03	43.41	49.19	74	-24.81	Horizontal	
11000.000	9.93	37.07	37.90	42.70	51.80	74	-22.20	Horizontal	
16500.000	12.97	39.44	41.18	42.26	53.49	74	-20.51	Horizontal	

Test mode:		802.11a		Frequency(MHz):		5600		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	
3269.434	7.42	32.44	38.63	44.83	46.06	74	-27.94	Vertical	
3953.271	6.71	33.42	38.93	45.62	46.82	74	-27.18	Vertical	
5144.519	6.97	34.86	39.28	47.09	49.64	74	-24.36	Vertical	
8138.634	9.48	35.83	38.90	43.71	50.12	74	-23.88	Vertical	
11200.000	9.96	37.23	37.95	42.58	51.82	74	-22.18	Vertical	
16800.000	12.96	39.68	41.22	42.13	53.55	74	-20.45	Vertical	
3316.635	7.32	32.56	38.66	44.47	45.69	74	-28.31	Horizontal	
3890.032	6.75	33.31	38.91	45.59	46.74	74	-27.26	Horizontal	
4857.848	6.54	34.76	39.25	45.97	48.02	74	-25.98	Horizontal	
8095.003	9.46	35.82	38.93	43.19	49.54	74	-24.46	Horizontal	
11200.000	9.96	37.23	37.95	42.69	51.93	74	-22.07	Horizontal	
16800.000	12.96	39.68	41.22	41.71	53.13	74	-20.87	Horizontal	



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Test mode:		802.11a		Frequency(MHz):		5700		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	
3406.983	7.15	32.79	38.70	47.43	48.67	74	-25.33	Vertical	
4823.156	6.46	34.72	39.24	47.98	49.92	74	-24.08	Vertical	
7562.185	9.32	35.47	39.04	44.52	50.27	74	-23.73	Vertical	
9359.385	9.97	36.85	38.09	42.01	50.74	74	-23.26	Vertical	
11400.000	10.39	38.23	38.47	42.17	52.32	74	-21.68	Vertical	
17100.000	16.25	40.99	41.69	36.70	52.25	74	-21.75	Vertical	
3653.574	6.88	33.04	38.81	46.47	47.58	74	-26.42	Horizontal	
4780.140	6.37	34.69	39.23	47.66	49.49	74	-24.51	Horizontal	
7994.107	9.42	35.80	39.00	43.53	49.75	74	-24.25	Horizontal	
9443.610	10.02	37.02	38.03	42.94	51.95	74	-22.05	Horizontal	
11400.000	10.39	38.23	38.47	42.80	52.95	74	-21.05	Horizontal	
17100.000	16.25	40.99	41.69	37.11	52.66	74	-21.34	Horizontal	

Test mode:		802.11a		Frequency(MHz):		5745		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	47.72	48.94	74	-25.06	Vertical	
4737.506	6.27	34.66	39.22	48.60	50.31	74	-23.69	Vertical	
7282.930	9.02	35.55	39.06	47.39	52.90	74	-21.10	Vertical	
9562.801	10.01	37.23	37.96	43.82	53.10	74	-20.90	Vertical	
11490.000	10.39	38.22	38.46	43.02	53.17	74	-20.83	Vertical	
17235.000	16.31	41.01	41.69	36.61	52.24	74	-21.76	Vertical	
3364.519	7.23	32.69	38.68	47.95	49.19	74	-24.81	Horizontal	
4729.026	6.25	34.66	39.21	48.78	50.48	74	-23.52	Horizontal	
7685.120	9.35	35.56	39.03	47.42	53.30	74	-20.70	Horizontal	
9259.305	9.91	36.64	38.15	43.85	52.25	74	-21.75	Horizontal	
11490.000	10.39	38.22	38.46	41.88	52.03	74	-21.97	Horizontal	
17235.000	16.31	41.01	41.69	37.64	53.27	74	-20.73	Horizontal	

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Test mode:		802.11a		Frequency(MHz):		5785		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	
3512.356	6.96	32.91	38.75	47.75	48.87	74	-25.13	Vertical	
4670.083	6.12	34.62	39.19	48.67	50.22	74	-23.78	Vertical	
7782.116	9.37	35.64	39.02	46.72	52.71	74	-21.29	Vertical	
9443.610	10.02	37.02	38.03	43.16	52.17	74	-21.83	Vertical	
11570.000	10.42	38.28	38.50	42.51	52.71	74	-21.29	Vertical	
17355.000	16.08	40.96	41.72	36.71	52.03	74	-21.97	Vertical	
3413.093	7.13	32.79	38.70	49.36	50.58	74	-23.42	Horizontal	
4703.674	6.20	34.64	39.20	49.77	51.41	74	-22.59	Horizontal	
7712.709	9.36	35.58	39.02	47.14	53.06	74	-20.94	Horizontal	
9443.610	10.02	37.02	38.03	43.76	52.77	74	-21.23	Horizontal	
11570.000	10.42	38.28	38.50	42.06	52.26	74	-21.74	Horizontal	
17355.000	16.08	40.96	41.72	37.80	53.12	74	-20.88	Horizontal	

Test mode:		802.11a		Frequency(MHz):		5825		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	
3228.683	7.50	32.33	38.62	47.11	48.32	74	-25.68	Vertical	
4695.254	6.18	34.64	39.20	48.80	50.42	74	-23.58	Vertical	
7685.120	9.35	35.56	39.03	47.18	53.06	74	-20.94	Vertical	
9193.181	9.87	36.49	38.19	44.14	52.31	74	-21.69	Vertical	
11650.000	10.46	38.35	38.54	42.11	52.38	74	-21.62	Vertical	
17475.000	15.86	40.91	41.75	37.87	52.89	74	-21.11	Vertical	
3269.434	7.42	32.44	38.63	46.53	47.76	74	-26.24	Horizontal	
4578.940	5.91	34.55	39.16	47.32	48.62	74	-25.38	Horizontal	
7754.279	9.37	35.62	39.02	47.12	53.09	74	-20.91	Horizontal	
9029.928	9.78	36.08	38.29	46.42	53.99	74	-20.01	Horizontal	
11650.000	10.46	38.35	38.54	43.33	53.60	74	-20.40	Horizontal	
17475.000	15.86	40.91	41.75	37.63	52.65	74	-21.35	Horizontal	

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Test mode:		802.11n(HT20)		Frequency(MHz):		5180		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	
3334.511	7.29	32.61	38.67	47.07	48.30	74	-25.70	Vertical	
3988.846	6.70	33.48	38.95	46.93	48.16	74	-25.84	Vertical	
5135.310	6.96	34.87	39.28	48.00	50.55	74	-23.45	Vertical	
8197.173	9.50	35.85	38.86	42.91	49.40	74	-24.60	Vertical	
10360.000	9.92	37.13	37.89	42.34	51.50	74	-22.50	Vertical	
15540.000	12.97	39.38	41.17	41.94	53.12	74	-20.88	Vertical	
3310.698	7.33	32.55	38.65	46.62	47.85	74	-26.15	Horizontal	
3910.999	6.74	33.35	38.92	46.98	48.15	74	-25.85	Horizontal	
4595.378	5.95	34.57	39.17	48.66	50.01	74	-23.99	Horizontal	
8153.229	9.49	35.84	38.89	44.14	50.58	74	-23.42	Horizontal	
10360.000	9.92	37.13	37.89	42.54	51.70	74	-22.30	Horizontal	
15540.000	12.97	39.38	41.17	42.51	53.69	74	-20.31	Horizontal	

Test mode:		802.11n(HT20)		Frequency(MHz):		5200		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	
3310.698	7.33	32.55	38.65	46.88	48.11	74	-25.89	Vertical	
4216.674	6.26	34.00	39.03	47.22	48.45	74	-25.55	Vertical	
4866.560	6.56	34.77	39.26	47.77	49.84	74	-24.16	Vertical	
8153.229	9.49	35.84	38.89	43.23	49.67	74	-24.33	Vertical	
10400.000	9.94	37.02	37.92	43.79	52.83	74	-21.17	Vertical	
15600.000	12.97	39.50	41.19	41.29	52.57	74	-21.43	Vertical	
3316.635	7.32	32.56	38.66	45.76	46.98	74	-27.02	Horizontal	
3981.706	6.70	33.47	38.94	46.69	47.92	74	-26.08	Horizontal	
4857.848	6.54	34.76	39.25	47.15	49.20	74	-24.80	Horizontal	
8138.634	9.48	35.83	38.90	43.26	49.67	74	-24.33	Horizontal	
10400.000	9.94	37.02	37.92	43.16	52.20	74	-21.80	Horizontal	
15600.000	12.97	39.50	41.19	41.38	52.66	74	-21.34	Horizontal	

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Test mode:		802.11n(HT20)		Frequency(MHz):		5240		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	
3269.434	7.42	32.44	38.63	45.58	46.81	74	-27.19	Vertical	
4216.674	6.26	34.00	39.03	45.95	47.18	74	-26.82	Vertical	
5135.310	6.96	34.87	39.28	47.03	49.58	74	-24.42	Vertical	
8182.499	9.50	35.85	38.87	42.19	48.67	74	-25.33	Vertical	
10480.000	9.97	37.30	37.96	43.21	52.52	74	-21.48	Vertical	
15720.000	12.96	39.74	41.23	42.12	53.59	74	-20.41	Vertical	
3334.511	7.29	32.61	38.67	45.44	46.67	74	-27.33	Horizontal	
4239.400	6.22	34.04	39.04	45.76	46.98	74	-27.02	Horizontal	
5144.519	6.97	34.86	39.28	47.03	49.58	74	-24.42	Horizontal	
8066.047	9.45	35.82	38.95	43.28	49.60	74	-24.40	Horizontal	
10480.000	9.97	37.30	37.96	41.98	51.29	74	-22.71	Horizontal	
15720.000	12.96	39.74	41.23	41.01	52.48	74	-21.52	Horizontal	

Test mode:		802.11n(HT20)		Frequency(MHz):		5260		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	
3531.287	6.95	32.93	38.76	46.37	47.49	74	-26.51	Vertical	
4562.561	5.88	34.52	39.16	46.22	47.46	74	-26.54	Vertical	
7322.183	9.08	35.50	39.06	46.40	51.92	74	-22.08	Vertical	
9292.546	9.93	36.71	38.13	41.85	50.36	74	-23.64	Vertical	
10520.000	9.95	37.09	37.93	43.93	53.04	74	-20.96	Vertical	
15780.000	12.97	39.56	41.20	41.79	53.12	74	-20.88	Vertical	
3456.171	7.05	32.84	38.72	46.47	47.64	74	-26.36	Horizontal	
4695.254	6.18	34.64	39.20	47.87	49.49	74	-24.51	Horizontal	
7782.116	9.37	35.64	39.02	45.52	51.51	74	-22.49	Horizontal	
9013.763	9.77	36.04	38.30	43.77	51.28	74	-22.72	Horizontal	
10520.000	9.95	37.09	37.93	43.58	52.69	74	-21.31	Horizontal	
15780.000	12.97	39.56	41.20	42.01	53.34	74	-20.66	Horizontal	

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Test mode:		802.11n(HT20)		Frequency(MHz):		5300		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	
3493.527	6.98	32.88	38.74	45.71	46.83	74	-27.17	Vertical	
4695.254	6.18	34.64	39.20	47.66	49.28	74	-24.72	Vertical	
7282.930	9.02	35.55	39.06	47.03	52.54	74	-21.46	Vertical	
9275.910	9.92	36.67	38.14	42.53	50.98	74	-23.02	Vertical	
10600.000	10.41	38.26	38.49	41.52	51.70	74	-22.30	Vertical	
15900.000	16.14	40.97	41.71	36.92	52.32	74	-21.68	Vertical	
3352.483	7.25	32.66	38.67	46.38	47.62	74	-26.38	Horizontal	
4780.140	6.37	34.69	39.23	47.37	49.20	74	-24.80	Horizontal	
7824.060	9.38	35.68	39.01	45.33	51.38	74	-22.62	Horizontal	
9562.801	10.01	37.23	37.96	43.38	52.66	74	-21.34	Horizontal	
10600.000	10.41	38.26	38.49	42.53	52.71	74	-21.29	Horizontal	
15900.000	16.14	40.97	41.71	37.06	52.46	74	-21.54	Horizontal	

Test mode:		802.11n(HT20)		Frequency(MHz):		5320		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	46.64	47.82	74	-26.18	Vertical	
4620.146	6.01	34.59	39.18	47.78	49.20	74	-24.80	Vertical	
7508.180	9.31	35.45	39.04	44.48	50.20	74	-23.80	Vertical	
9359.385	9.97	36.85	38.09	41.77	50.50	74	-23.50	Vertical	
10640.000	10.43	38.29	38.51	43.19	53.40	74	-20.60	Vertical	
15960.000	16.03	40.95	41.73	38.54	53.79	74	-20.21	Vertical	
3531.287	6.95	32.93	38.76	47.23	48.35	74	-25.65	Horizontal	
4611.875	5.99	34.59	39.17	48.09	49.50	74	-24.50	Horizontal	
7768.185	9.37	35.63	39.02	46.53	52.51	74	-21.49	Horizontal	
9078.597	9.81	36.20	38.26	45.30	53.05	74	-20.95	Horizontal	
10640.000	10.43	38.29	38.51	42.90	53.11	74	-20.89	Horizontal	
15960.000	16.03	40.95	41.73	37.49	52.74	74	-21.26	Horizontal	

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Test mode:		802.11n(HT20)		Frequency(MHz):		5500		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	
3814.113	6.79	33.18	38.88	46.52	47.61	74	-26.39	Vertical	
4186.561	6.32	33.95	39.02	45.21	46.46	74	-27.54	Vertical	
5044.117	6.88	34.89	39.29	47.86	50.34	74	-23.66	Vertical	
7562.185	9.32	35.47	39.04	43.50	49.25	74	-24.75	Vertical	
11000.000	9.95	37.09	37.93	41.32	50.43	74	-23.57	Vertical	
11650.000	12.97	39.56	41.20	41.54	52.87	74	-21.13	Vertical	
3298.855	7.36	32.52	38.65	45.35	46.58	74	-27.42	Horizontal	
3960.360	6.71	33.43	38.93	45.11	46.32	74	-27.68	Horizontal	
5172.247	7.00	34.86	39.28	46.85	49.43	74	-24.57	Horizontal	
8270.939	9.54	35.84	38.81	41.04	47.61	74	-26.39	Horizontal	
11000.000	9.95	37.09	37.93	40.88	49.99	74	-24.01	Horizontal	
16500.000	12.97	39.56	41.20	39.87	51.20	74	-22.80	Horizontal	

Test mode:		802.11n(HT20)		Frequency(MHz):		5600		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	
3575.856	6.93	32.97	38.77	46.31	47.44	74	-26.56	Vertical	
4840.471	6.50	34.74	39.25	46.73	48.72	74	-25.28	Vertical	
7852.148	9.39	35.70	39.01	43.51	49.59	74	-24.41	Vertical	
9477.513	10.04	37.08	38.01	43.62	52.73	74	-21.27	Vertical	
11200.000	10.41	38.26	38.49	42.66	52.84	74	-21.16	Vertical	
16800.000	16.14	40.97	41.71	37.38	52.78	74	-21.22	Vertical	
3759.831	6.82	33.12	38.85	48.07	49.16	74	-24.84	Horizontal	
4746.002	6.29	34.67	39.22	48.53	50.27	74	-23.73	Horizontal	
7768.185	9.37	35.63	39.02	47.03	53.01	74	-20.99	Horizontal	
9292.546	9.93	36.71	38.13	43.58	52.09	74	-21.91	Horizontal	
11200.000	10.41	38.26	38.49	42.97	53.15	74	-20.85	Horizontal	
16800.000	16.14	40.97	41.71	36.72	52.12	74	-21.88	Horizontal	

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Test mode:		802.11n(HT20)		Frequency(MHz):		5700		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	
3693.064	6.86	33.07	38.83	47.44	48.54	74	-25.46	Vertical	
4771.583	6.35	34.68	39.23	47.27	49.07	74	-24.93	Vertical	
7282.930	9.02	35.55	39.06	47.02	52.53	74	-21.47	Vertical	
9494.509	10.05	37.11	38.00	43.28	52.44	74	-21.56	Vertical	
11400.000	10.43	38.29	38.51	43.09	53.30	74	-20.70	Vertical	
17100.000	16.03	40.95	41.73	37.27	52.52	74	-21.48	Vertical	
3601.577	6.91	33.00	38.79	46.84	47.96	74	-26.04	Horizontal	
4703.674	6.20	34.64	39.20	47.72	49.36	74	-24.64	Horizontal	
7796.073	9.38	35.66	39.02	45.73	51.75	74	-22.25	Horizontal	
9562.801	10.01	37.23	37.96	42.58	51.86	74	-22.14	Horizontal	
11400.000	10.43	38.29	38.51	41.95	52.16	74	-21.84	Horizontal	
17100.000	16.03	40.95	41.73	37.07	52.32	74	-21.68	Horizontal	

Test mode:		802.11n(HT20)		Frequency(MHz):		5745		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	
4703.674	6.20	34.64	39.20	46.53	48.17	74	-25.83	Vertical	
7685.120	9.35	35.56	39.03	44.71	50.59	74	-23.41	Vertical	
9511.536	10.04	37.14	37.99	42.09	51.28	74	-22.72	Vertical	
11490.000	10.39	38.22	38.46	41.60	51.75	74	-22.25	Vertical	
17235.000	16.31	41.01	41.69	36.76	52.39	74	-21.61	Vertical	
3524.966	6.96	32.92	38.75	45.27	46.40	74	-27.60	Horizontal	
4661.723	6.10	34.62	39.19	46.99	48.52	74	-25.48	Horizontal	
7796.073	9.38	35.66	39.02	46.01	52.03	74	-21.97	Horizontal	
9700.862	9.94	37.61	37.88	43.27	52.94	74	-21.06	Horizontal	
11490.000	10.39	38.22	38.46	41.27	51.42	74	-22.58	Horizontal	
17235.000	16.31	41.01	41.69	38.09	53.72	74	-20.28	Horizontal	

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Test mode:		802.11n(HT20)		Frequency(MHz):		5785		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	
3543.964	6.94	32.94	38.76	47.20	48.32	74	-25.68	Vertical	
4831.806	6.48	34.73	39.25	47.96	49.92	74	-24.08	Vertical	
7908.627	9.40	35.74	39.01	42.76	48.89	74	-25.11	Vertical	
9292.546	9.93	36.71	38.13	42.71	51.22	74	-22.78	Vertical	
11570.000	10.42	38.28	38.50	42.98	53.18	74	-20.82	Vertical	
17355.000	16.08	40.96	41.72	37.55	52.87	74	-21.13	Vertical	
3406.983	7.15	32.79	38.70	46.39	47.63	74	-26.37	Horizontal	
4703.674	6.20	34.64	39.20	47.24	48.88	74	-25.12	Horizontal	
7852.148	9.39	35.70	39.01	43.08	49.16	74	-24.84	Horizontal	
9309.210	9.94	36.75	38.12	42.31	50.88	74	-23.12	Horizontal	
11570.000	10.42	38.28	38.50	41.96	52.16	74	-21.84	Horizontal	
17355.000	16.08	40.96	41.72	37.53	52.85	74	-21.15	Horizontal	

Test mode:		802.11n(HT20)		Frequency(MHz):		5825		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	
3246.085	7.46	32.38	38.62	46.67	47.89	74	-26.11	Vertical	
4570.743	5.89	34.53	39.16	47.50	48.76	74	-25.24	Vertical	
7866.230	9.39	35.71	39.01	43.06	49.15	74	-24.85	Vertical	
9494.509	10.05	37.11	38.00	43.48	52.64	74	-21.36	Vertical	
11650.000	10.46	38.35	38.54	42.12	52.39	74	-21.61	Vertical	
17475.000	15.86	40.91	41.75	37.10	52.12	74	-21.88	Vertical	
3358.496	7.24	32.67	38.68	46.51	47.74	74	-26.26	Horizontal	
4628.432	6.03	34.60	39.18	47.85	49.30	74	-24.70	Horizontal	
7685.120	9.35	35.56	39.03	46.30	52.18	74	-21.82	Horizontal	
9176.724	9.86	36.45	38.20	43.15	51.26	74	-22.74	Horizontal	
11650.000	10.46	38.35	38.54	42.29	52.56	74	-21.44	Horizontal	
17475.000	15.86	40.91	41.75	38.31	53.33	74	-20.67	Horizontal	

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Test mode:		802.11n(HT40)		Frequency(MHz):		5190	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	
3328.542	7.30	32.59	38.66	45.83	47.06	74	-26.94	Vertical	
3946.194	6.72	33.41	38.93	45.21	46.41	74	-27.59	Vertical	
4814.522	6.44	34.71	39.24	46.80	48.71	74	-25.29	Vertical	
8124.064	9.47	35.83	38.91	43.06	49.45	74	-24.55	Vertical	
10380.000	9.93	37.07	37.90	43.21	52.31	74	-21.69	Vertical	
15570.000	12.97	39.44	41.18	41.66	52.89	74	-21.11	Vertical	
3620.989	6.90	33.02	38.79	43.17	44.30	74	-29.70	Horizontal	
4546.240	5.84	34.50	39.15	44.03	45.22	74	-28.78	Horizontal	
5200.124	7.02	34.85	39.27	44.86	47.46	74	-26.54	Horizontal	
8182.499	9.50	35.85	38.87	40.92	47.40	74	-26.60	Horizontal	
10380.000	9.93	37.07	37.90	41.73	50.83	74	-23.17	Horizontal	
15570.000	12.97	39.44	41.18	40.66	51.89	74	-22.11	Horizontal	

Test mode:		802.11n(HT40)		Frequency(MHz):		5230	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	
3588.694	6.92	32.99	38.78	46.20	47.33	74	-26.67	Vertical	
4231.812	6.23	34.03	39.04	46.65	47.87	74	-26.13	Vertical	
5116.940	6.95	34.87	39.29	47.36	49.89	74	-24.11	Vertical	
8618.910	9.66	35.91	38.57	39.98	46.98	74	-27.02	Vertical	
10460.000	9.96	37.23	37.95	42.96	52.20	74	-21.80	Vertical	
15690.000	12.96	39.68	41.22	41.72	53.14	74	-20.86	Vertical	
3328.542	7.30	32.59	38.66	46.48	47.71	74	-26.29	Horizontal	
4216.674	6.26	34.00	39.03	47.14	48.37	74	-25.63	Horizontal	
4840.471	6.50	34.74	39.25	47.87	49.86	74	-24.14	Horizontal	
8315.519	9.55	35.83	38.77	43.41	50.02	74	-23.98	Horizontal	
10460.000	9.96	37.23	37.95	42.28	51.52	74	-22.48	Horizontal	
15690.000	12.96	39.68	41.22	41.01	52.43	74	-21.57	Horizontal	

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Test mode:		802.11n(HT40)		Frequency(MHz):		5270		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	
3563.065	6.93	32.96	38.77	45.37	46.49	74	-27.51	Vertical	
4401.955	5.91	34.26	39.10	47.39	48.46	74	-25.54	Vertical	
5153.745	6.98	34.86	39.28	47.26	49.82	74	-24.18	Vertical	
8051.607	9.44	35.81	38.96	44.86	51.15	74	-22.85	Vertical	
10540.000	9.95	37.09	37.93	42.93	52.04	74	-21.96	Vertical	
15810.000	12.97	39.56	41.20	41.87	53.20	74	-20.80	Vertical	
3298.855	7.36	32.52	38.65	46.25	47.48	74	-26.52	Horizontal	
3953.271	6.71	33.42	38.93	47.02	48.22	74	-25.78	Horizontal	
4840.471	6.50	34.74	39.25	47.47	49.46	74	-24.54	Horizontal	
8109.521	9.47	35.83	38.92	43.31	49.69	74	-24.31	Horizontal	
10540.000	9.95	37.09	37.93	42.74	51.85	74	-22.15	Horizontal	
15810.000	12.97	39.56	41.20	41.06	52.39	74	-21.61	Horizontal	

Test mode:		802.11n(HT40)		Frequency(MHz):		5310		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	
3328.542	7.30	32.59	38.66	47.04	48.27	74	-25.73	Vertical	
4546.240	5.84	34.50	39.15	47.95	49.14	74	-24.86	Vertical	
7880.337	9.39	35.72	39.01	42.04	48.14	74	-25.86	Vertical	
9562.801	10.01	37.23	37.96	43.78	53.06	74	-20.94	Vertical	
10620.000	10.41	38.26	38.49	42.21	52.39	74	-21.61	Vertical	
15930.000	16.14	40.97	41.71	38.06	53.46	74	-20.54	Vertical	
3493.527	6.98	32.88	38.74	45.71	46.83	74	-27.17	Horizontal	
4670.083	6.12	34.62	39.19	47.68	49.23	74	-24.77	Horizontal	
7796.073	9.38	35.66	39.02	46.00	52.02	74	-21.98	Horizontal	
9460.546	10.03	37.05	38.02	42.62	51.68	74	-22.32	Horizontal	
10620.000	10.41	38.26	38.49	42.68	52.86	74	-21.14	Horizontal	
15930.000	16.14	40.97	41.71	37.43	52.83	74	-21.17	Horizontal	



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Test mode:		802.11n(HT40)		Frequency(MHz):		5510		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	45.08	46.30	74	-27.70	Vertical	
3620.989	6.90	33.02	38.79	44.91	46.04	74	-27.96	Vertical	
4254.620	6.19	34.06	39.05	45.47	46.67	74	-27.33	Vertical	
4840.471	6.50	34.74	39.25	46.14	48.13	74	-25.87	Vertical	
11020.000	9.93	37.07	37.90	41.41	50.51	74	-23.49	Vertical	
16530.000	12.97	39.44	41.18	40.28	51.51	74	-22.49	Vertical	
3310.698	7.33	32.55	38.65	45.87	47.10	74	-26.90	Horizontal	
3918.012	6.73	33.36	38.92	46.19	47.36	74	-26.64	Horizontal	
4578.940	5.91	34.55	39.16	46.17	47.47	74	-26.53	Horizontal	
8211.874	9.51	35.85	38.85	42.27	48.78	74	-25.22	Horizontal	
11020.000	9.93	37.07	37.90	43.25	52.35	74	-21.65	Horizontal	
16530.000	12.97	39.44	41.18	42.26	53.49	74	-20.51	Horizontal	

Test mode:		802.11n(HT40)		Frequency(MHz):		5590		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	
3298.855	7.36	32.52	38.65	46.13	47.36	74	-26.64	Vertical	
3960.360	6.71	33.43	38.93	46.47	47.68	74	-26.32	Vertical	
4771.583	6.35	34.68	39.23	47.54	49.34	74	-24.66	Vertical	
8124.064	9.47	35.83	38.91	44.01	50.40	74	-23.60	Vertical	
11180.000	9.96	37.23	37.95	42.80	52.04	74	-21.96	Vertical	
16770.000	12.96	39.68	41.22	41.72	53.14	74	-20.86	Vertical	
3370.552	7.22	32.70	38.68	46.81	48.05	74	-25.95	Horizontal	
4164.117	6.36	33.90	39.01	46.46	47.71	74	-26.29	Horizontal	
5135.310	6.96	34.87	39.28	48.02	50.57	74	-23.43	Horizontal	
8665.363	9.67	35.93	38.53	40.58	47.65	74	-26.35	Horizontal	
11180.000	9.96	37.23	37.95	43.29	52.53	74	-21.47	Horizontal	
16770.000	12.96	39.68	41.22	41.90	53.32	74	-20.68	Horizontal	

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Test mode:		802.11n(HT40)		Frequency(MHz):		5670		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	
3666.690	6.87	33.05	38.81	43.97	45.08	74	-28.92	Vertical	
4831.806	6.48	34.73	39.25	45.10	47.06	74	-26.94	Vertical	
7754.279	9.37	35.62	39.02	43.84	49.81	74	-24.19	Vertical	
9562.801	10.01	37.23	37.96	43.15	52.43	74	-21.57	Vertical	
11340.000	10.39	38.23	38.47	43.43	53.58	74	-20.42	Vertical	
17010.000	16.25	40.99	41.69	37.97	53.52	74	-20.48	Vertical	
3493.527	6.98	32.88	38.74	46.14	47.26	74	-26.74	Horizontal	
4720.560	6.23	34.65	39.21	47.14	48.81	74	-25.19	Horizontal	
7685.120	9.35	35.56	39.03	46.42	52.30	74	-21.70	Horizontal	
9545.682	10.02	37.20	37.97	43.10	52.35	74	-21.65	Horizontal	
11340.000	10.39	38.23	38.47	41.12	51.27	74	-22.73	Horizontal	
17010.000	16.25	40.99	41.69	36.69	52.24	74	-21.76	Horizontal	

Test mode:		802.11n(HT40)		Frequency(MHz):		5755		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	46.21	47.39	74	-26.61	Vertical	
4754.514	6.31	34.67	39.22	46.49	48.25	74	-25.75	Vertical	
7824.060	9.38	35.68	39.01	44.33	50.38	74	-23.62	Vertical	
9392.984	9.99	36.93	38.06	42.06	50.92	74	-23.08	Vertical	
11510.000	10.39	38.23	38.47	42.25	52.40	74	-21.60	Vertical	
17265.000	16.25	40.99	41.69	36.97	52.52	74	-21.48	Vertical	
3376.597	7.21	32.72	38.69	47.24	48.48	74	-25.52	Horizontal	
4695.254	6.18	34.64	39.20	48.80	50.42	74	-23.58	Horizontal	
7852.148	9.39	35.70	39.01	44.19	50.27	74	-23.73	Horizontal	
9494.509	10.05	37.11	38.00	43.96	53.12	74	-20.88	Horizontal	
11510.000	10.39	38.23	38.47	42.17	52.32	74	-21.68	Horizontal	
17265.000	16.25	40.99	41.69	36.65	52.20	74	-21.80	Horizontal	

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Test mode:		802.11n(HT40)		Frequency(MHz):		5795	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	
3588.694	6.92	32.99	38.78	45.96	47.09	74	-26.91	Vertical	
4562.561	5.88	34.52	39.16	46.22	47.46	74	-26.54	Vertical	
7374.850	9.15	35.45	39.05	44.99	50.54	74	-23.46	Vertical	
9511.536	10.04	37.14	37.99	43.03	52.22	74	-21.78	Vertical	
11590.000	10.43	38.29	38.51	42.74	52.95	74	-21.05	Vertical	
17385.000	16.03	40.95	41.73	37.60	52.85	74	-21.15	Vertical	
3449.984	7.06	32.84	38.72	47.64	48.82	74	-25.18	Horizontal	
4670.083	6.12	34.62	39.19	47.88	49.43	74	-24.57	Horizontal	
7852.148	9.39	35.70	39.01	43.75	49.83	74	-24.17	Horizontal	
9545.682	10.02	37.20	37.97	43.04	52.29	74	-21.71	Horizontal	
11590.000	10.43	38.29	38.51	41.83	52.04	74	-21.96	Horizontal	
17385.000	16.03	40.95	41.73	36.90	52.15	74	-21.85	Horizontal	

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:

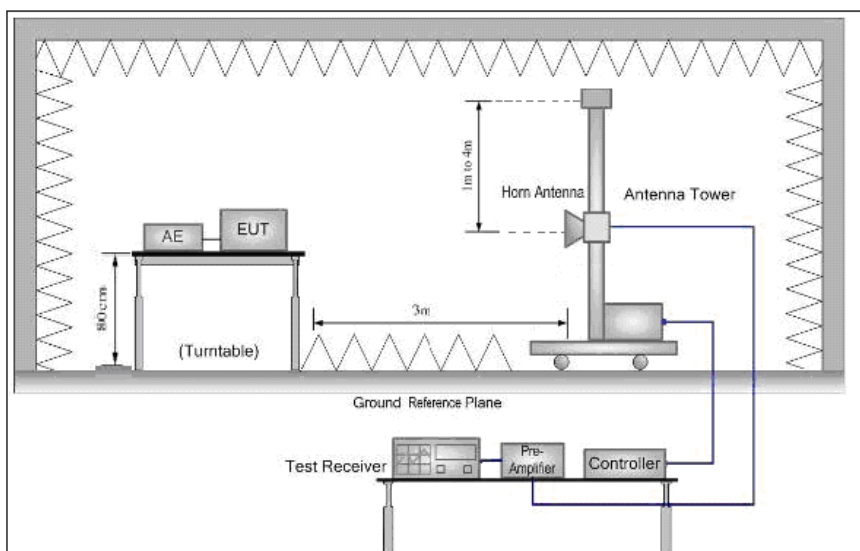
Final Test Level = Receiver Reading + Antenna Factor + Cable Factor – Preamplifier Factor

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.

6.8 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15 Section 15.407(b)		
Test Method:	ANSI C63.10: 2013		
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:			





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Test Procedure:	<ul 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 channelg. Test the EUT in the outermost channels.h. Repeat above procedures until all frequencies measured was complete.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCS0 of rate is the worst case of 802.11n(HT20); MCS0 of rate is the worst case of 802.11n(HT40). Only the worst case is recorded in the report.
Instruments Used:	Refer to section 5.10 for details.
Test Results:	Pass



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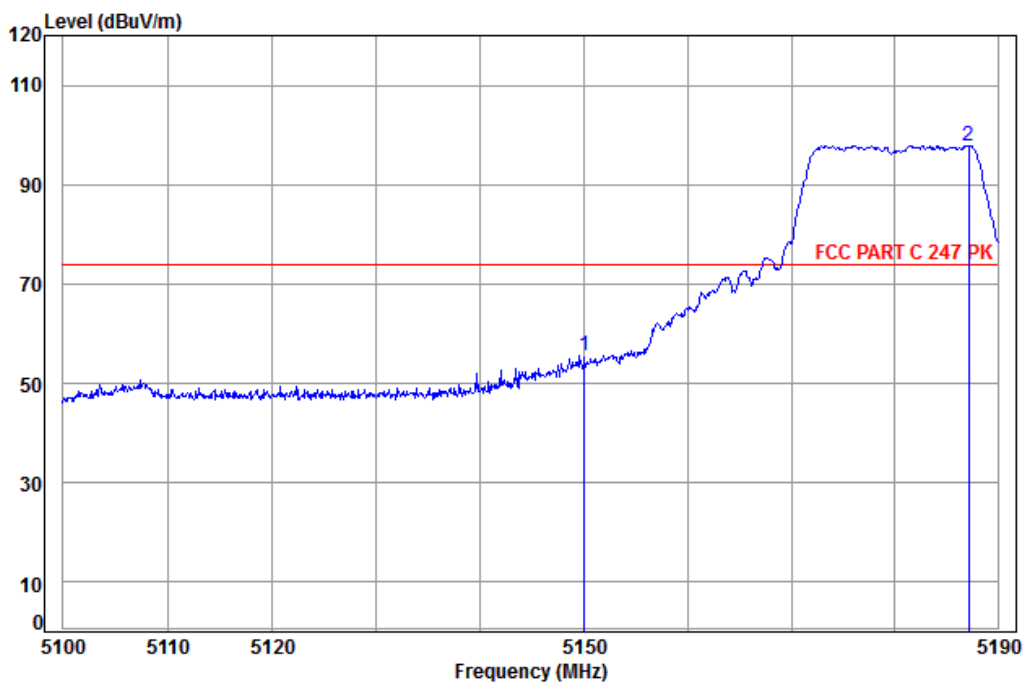
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Test plot as follows:

Test mode:	802.11a	Frequency(MHz):	5180	Remark:	Peak	Vertical
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Data: 476



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 3796CR

Mode: : 5180 A 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	5150.00	6.10	34.86	39.28	53.78	55.46	74.00 -18.54
2 pp	5187.19	6.13	34.85	39.28	96.22	97.92	74.00 23.92

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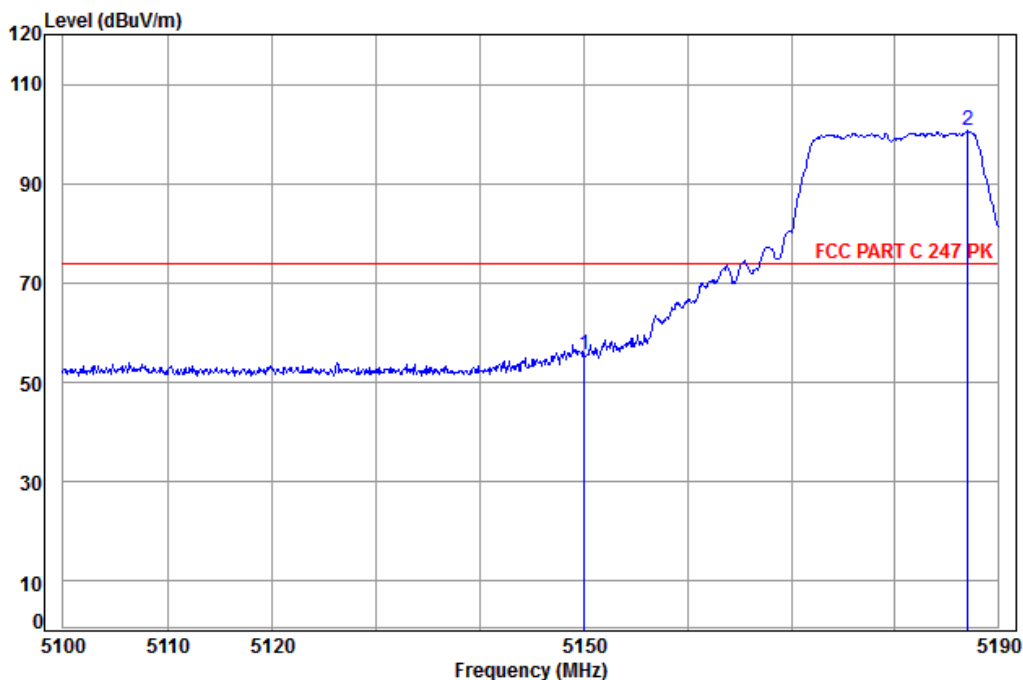
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Test mode:	802.11a	Frequency(MHz):	5180	Remark:	Peak	Horizontal
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Data: 477



Site : chamber
Condition: FCC PART C 247 PK 3m Horizontal
Job No: : 3796CR
Mode: : 5180 A 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	5150.00	6.10	34.86	39.28	54.01	55.69	74.00	-18.31
2 pp	5187.10	6.13	34.85	39.28	98.85	100.55	74.00	26.55

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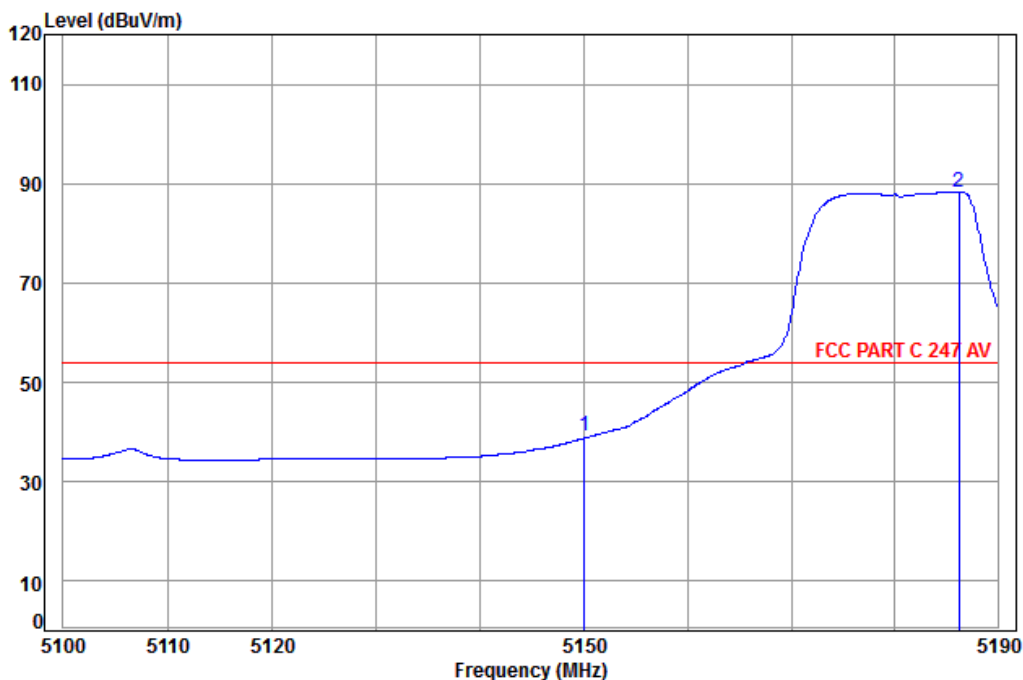
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM150600379603

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Test mode:	802.11a	Frequency(MHz):	5180	Remark:	Average	Vertical
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Data: 474



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 3796CR

Mode: : 5180 A 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	5150.00	6.10	34.86	39.28	37.47	39.15	54.00 -14.85
2 pp	5186.28	6.13	34.85	39.28	86.59	88.29	54.00 34.29

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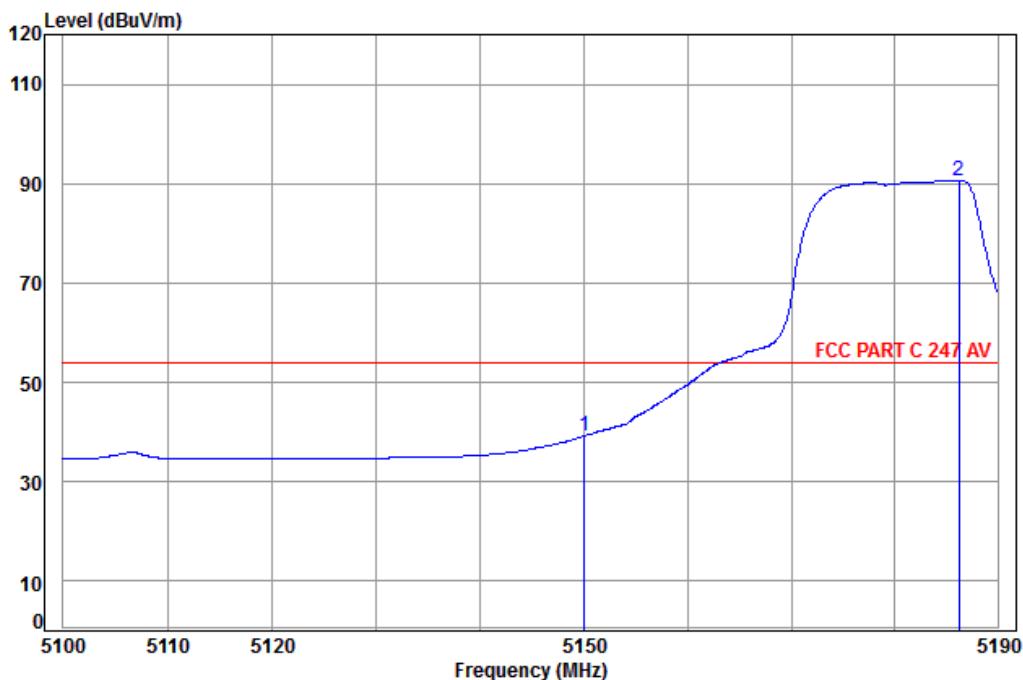
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM150600379603

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Test mode:	802.11a	Frequency(MHz):	5180	Remark:	Average	Horizontal
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Data: 475



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 3796CR

Mode: : 5180 A 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	5150.00	6.10	34.86	39.28	37.62	39.30	54.00 -14.70
2 pp	5186.28	6.13	34.85	39.28	89.02	90.72	54.00 36.72

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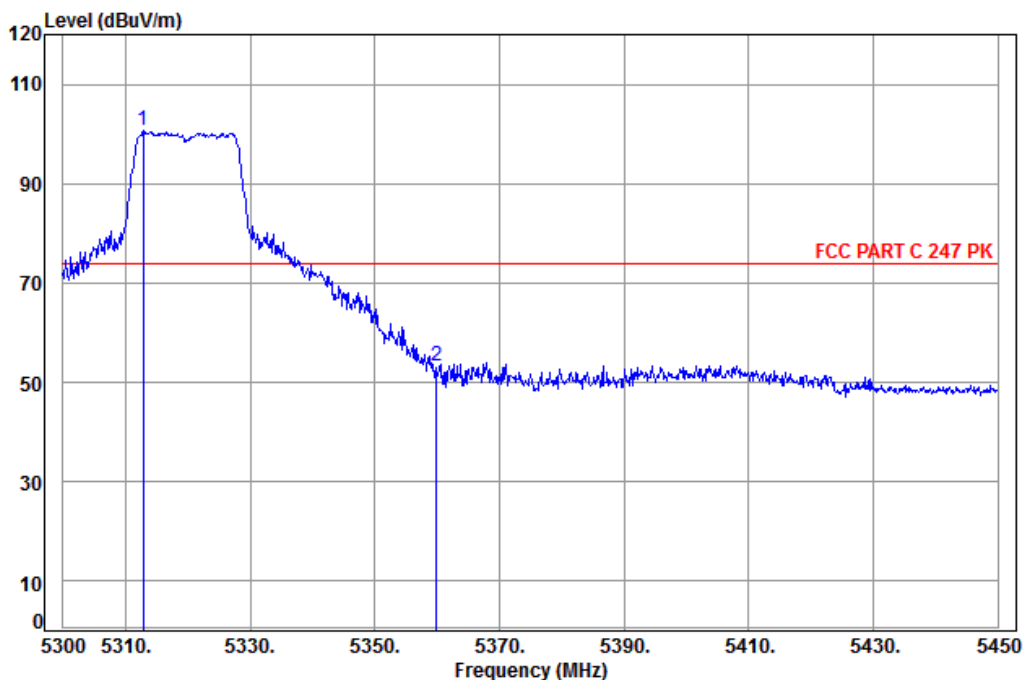
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM150600379603

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Test mode:	802.11a	Frequency(MHz):	5320	Remark:	Peak	Vertical
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Data: 495



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 3796CR

Mode: : 5320 A 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	5312.90	6.23	34.81	39.26	98.93	100.71	74.00	26.71
2	5360.00	6.26	34.79	39.26	51.41	53.20	74.00	-20.80



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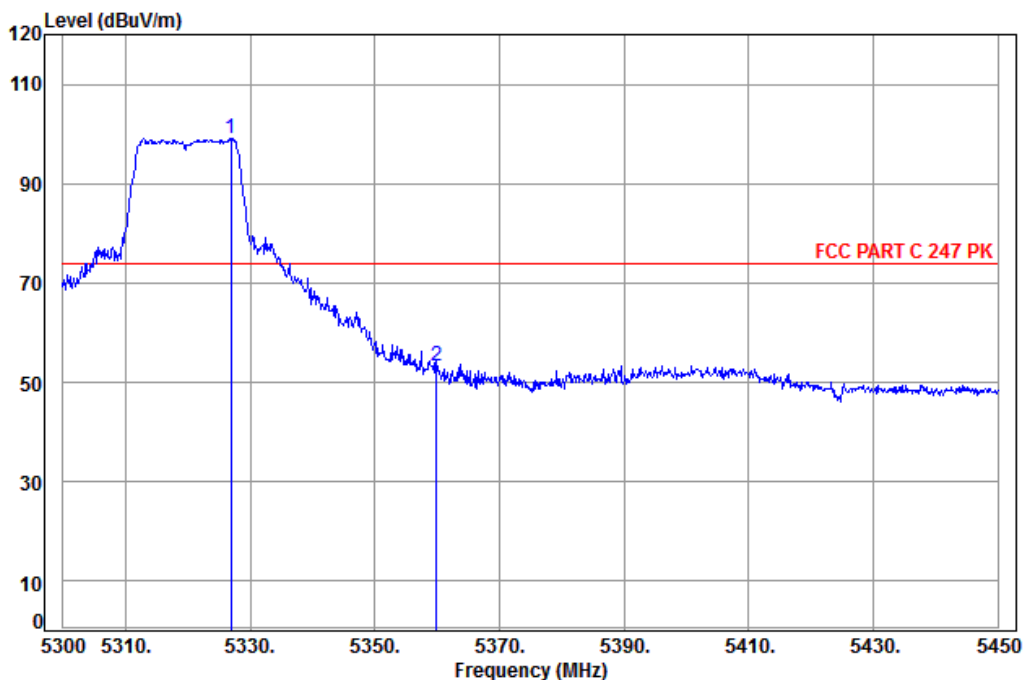
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Test mode:	802.11a	Frequency(MHz):	5320	Remark:	Peak	Horizontal
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Data: 496



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 3796CR

Mode: : 5320 A 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	5327.00	6.24	34.81	39.26	97.35	99.14	74.00	25.14
2	5360.00	6.26	34.79	39.26	51.49	53.28	74.00	-20.72

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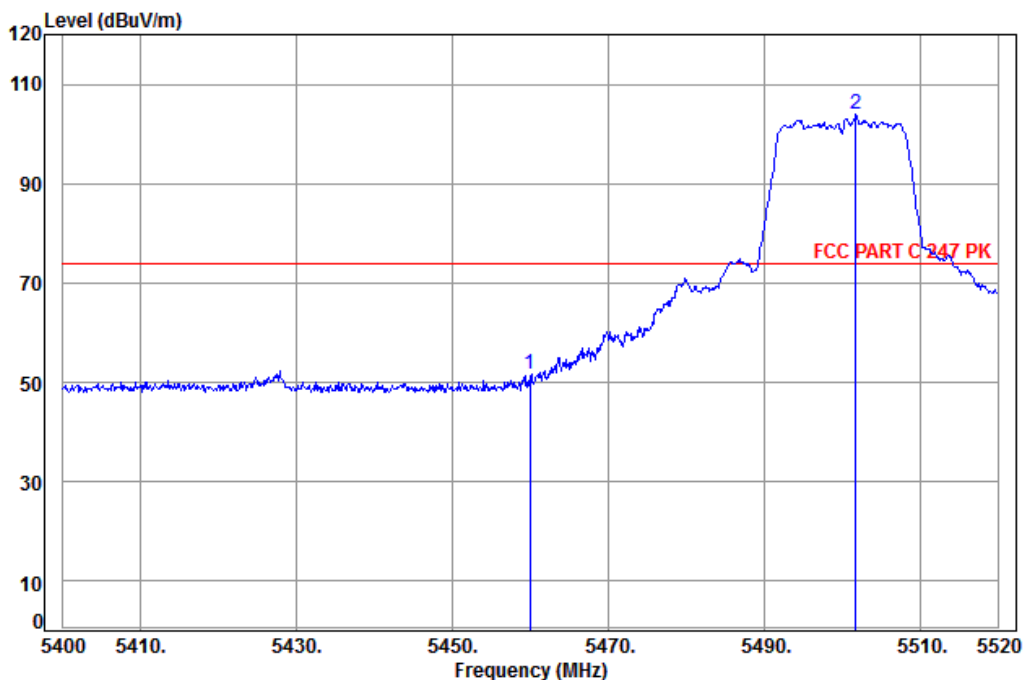
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11a	Frequency(MHz):	5500	Remark:	Peak	Vertical
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Data: 490



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 3796CR

Mode: : 5500 A 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	5460.00	6.33	34.97	39.24	49.45	51.51	74.00	-22.49
2 pp	5501.76	6.36	35.11	39.24	101.59	103.82	74.00	29.82

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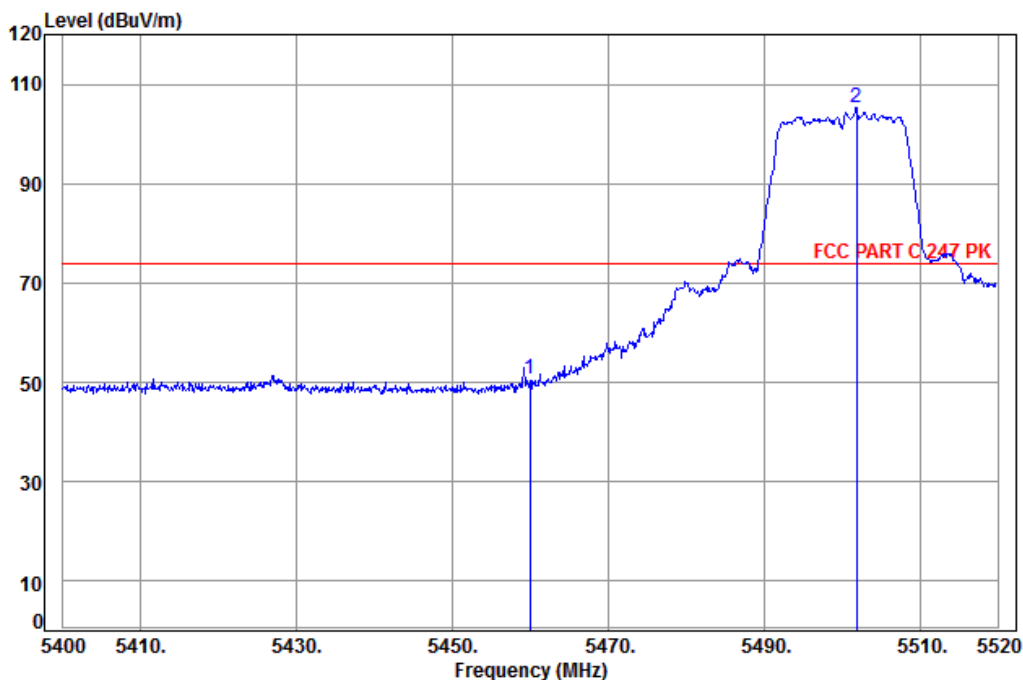
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11a	Frequency(MHz):	5500	Remark:	Peak	Horizontal
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Data: 489



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 3796CR

Mode: : 5500 A 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	5460.00	6.33	34.97	39.24	48.73	50.79	74.00	-23.21
2 pp	5501.88	6.36	35.11	39.24	102.98	105.21	74.00	31.21

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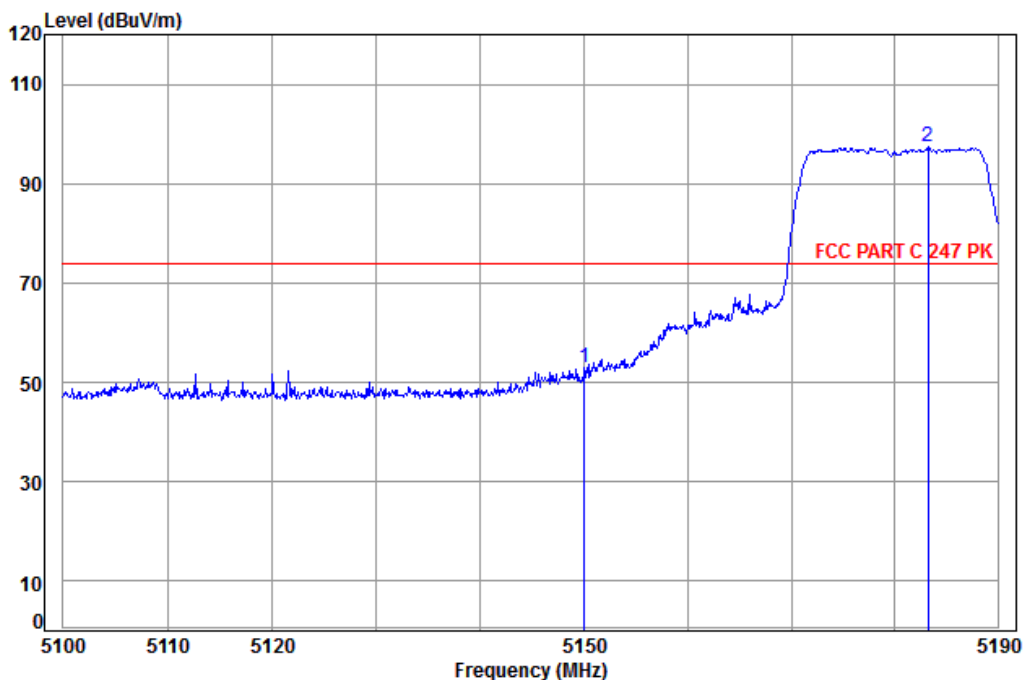
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM150600379603

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Test mode:	802.11n(HT20)	Frequency(MHz):	5180	Remark:	Peak	Vertical
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Data: 478



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 3796CR

Mode: : 5180 N 20 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	5150.03	6.10	34.86	39.28	51.41	53.09	74.00 -20.91
2	5183.29	6.13	34.85	39.28	95.66	97.36	74.00 23.36

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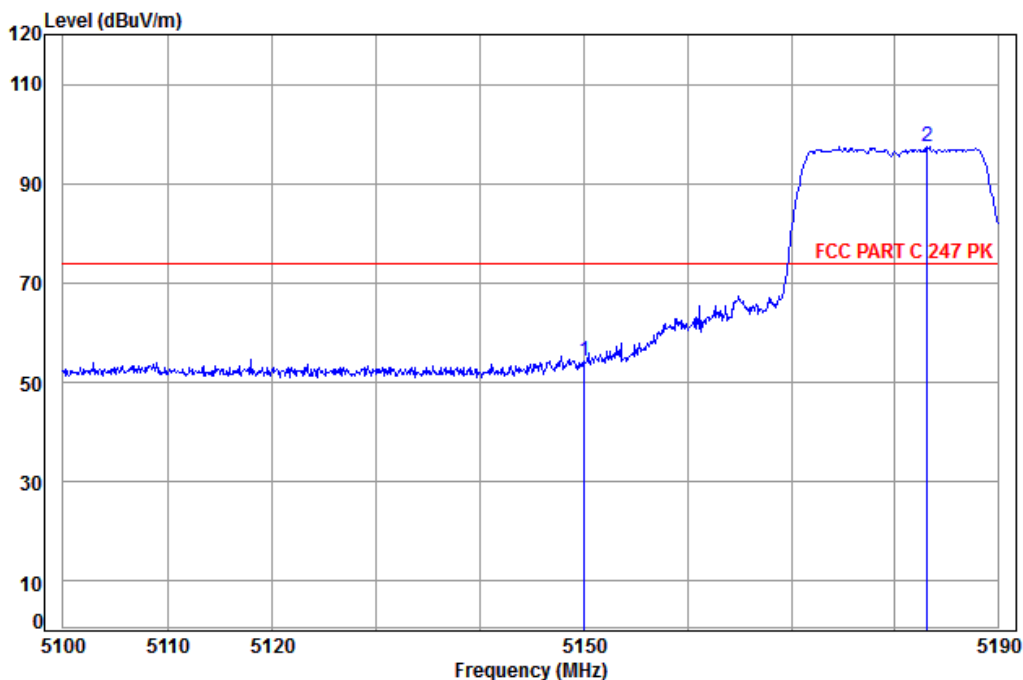
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

Report No.: SZEM150600379603

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Test mode:	802.11n(HT20)	Frequency(MHz):	5180	Remark:	Peak	Horizontal
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Data: 481



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 3796CR

Mode: : 5180 N 20 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	5150.00	6.10	34.86	39.28	52.45	54.13	74.00	-19.87
2 pp	5183.20	6.13	34.85	39.28	95.62	97.32	74.00	23.32

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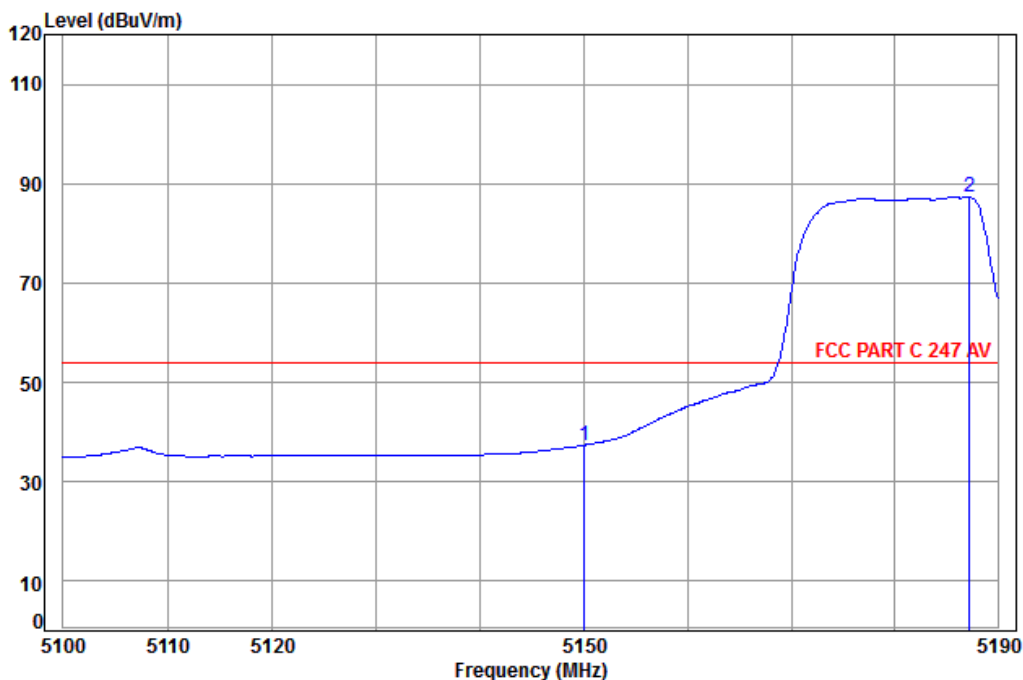
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

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Test mode:	802.11n(HT20)	Frequency(MHz):	5180	Remark:	Average	Vertical
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Data: 479



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 3796CR

Mode: : 5180 N 20 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	5150.00	6.10	34.86	39.28	35.76	37.44	54.00 -16.56
2 pp	5187.28	6.13	34.85	39.28	85.55	87.25	54.00 33.25

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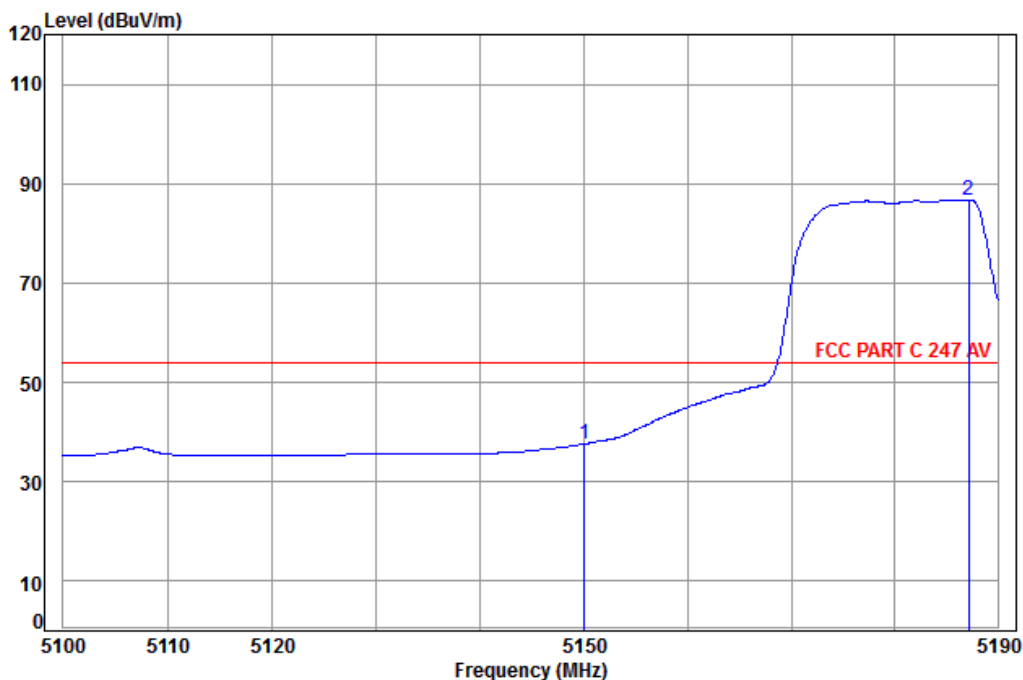
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11n(HT20)	Frequency(MHz):	5180	Remark:	Average	Horizontal
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Data: 480



Site : chamber

Condition: FCC PART C 247 AV 3m Horizontal

Job No: : 3796CR

Mode: : 5180 N 20 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	5150.00	6.10	34.86	39.28	36.05	37.73	54.00 -16.27
2 pp	5187.19	6.13	34.85	39.28	85.02	86.72	54.00 32.72

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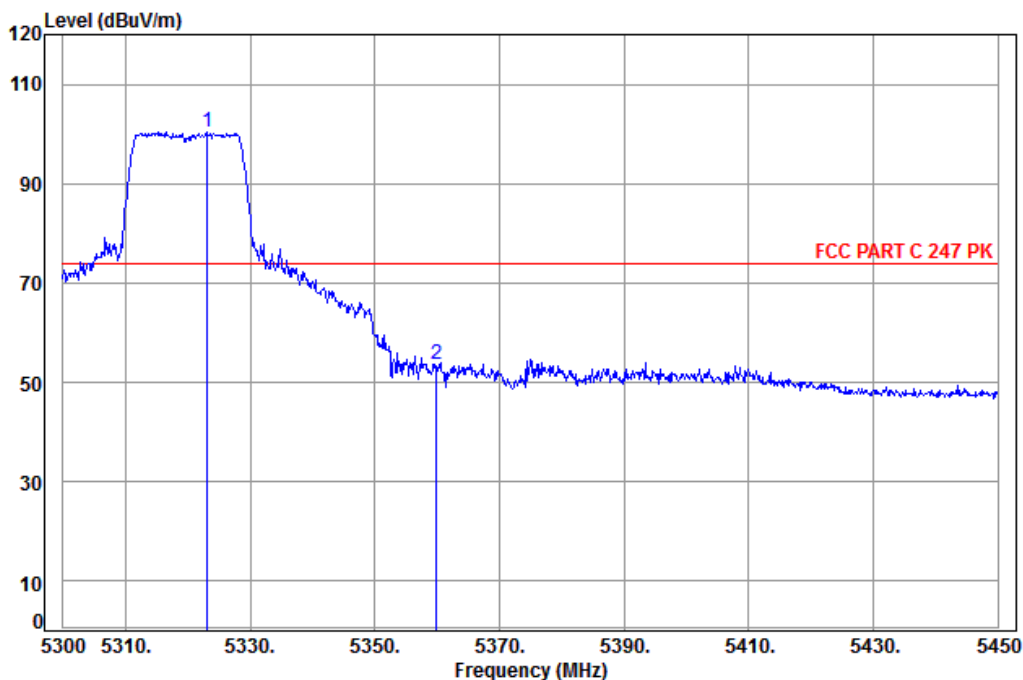
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11n(HT20)	Frequency(MHz):	5320	Remark:	Peak	Vertical
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Data: 493



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 3796CR

Mode: : 5320 N20 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	5323.10	6.23	34.81	39.26	98.62	100.40	74.00 26.40
2	5360.00	6.26	34.79	39.26	51.71	53.50	74.00 -20.50

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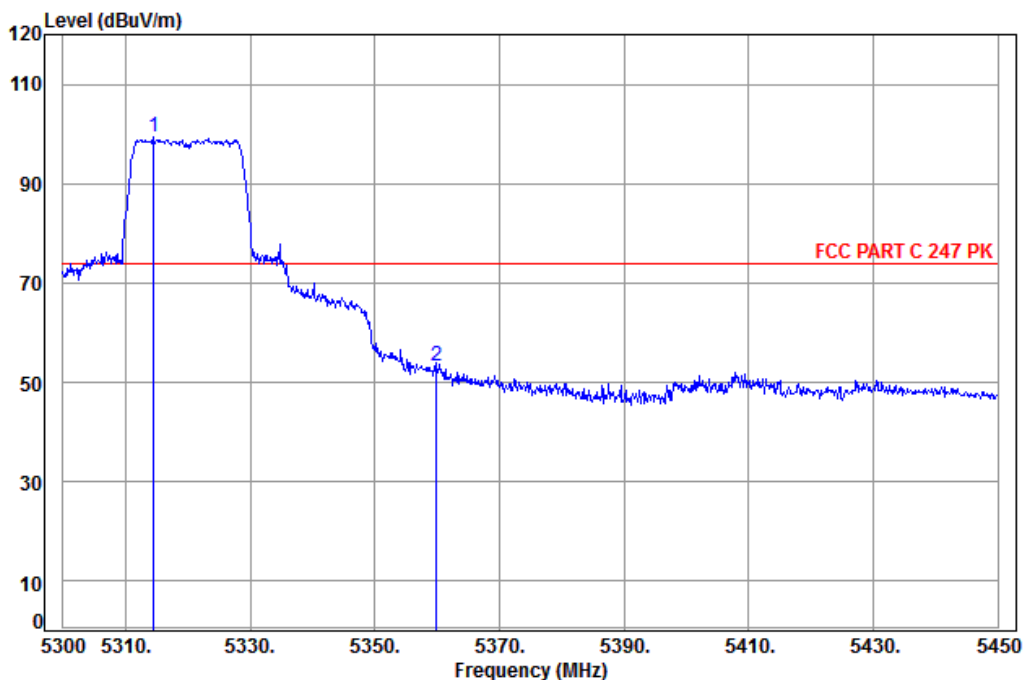
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11n(HT20)	Frequency(MHz):	5320	Remark:	Peak	Horizontal
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Data: 494



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 3796CR

Mode: : 5320 N20 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	5314.55	6.23	34.81	39.26	97.52	99.30	74.00 25.30
2	5360.00	6.26	34.79	39.26	51.43	53.22	74.00 -20.78

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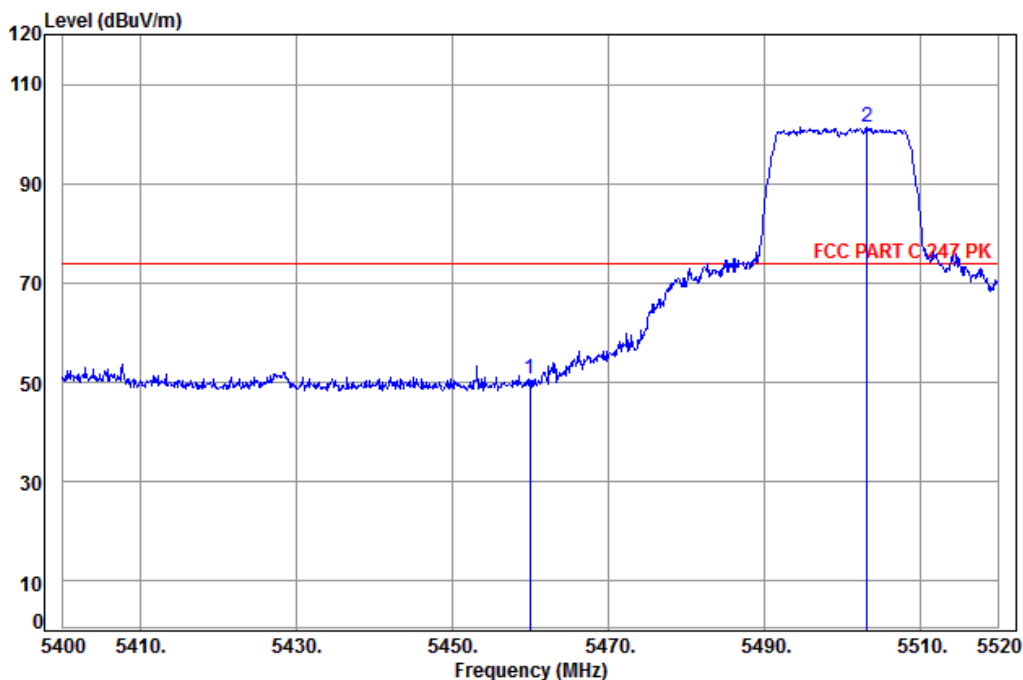
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Shenzhen Branch

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Test mode:	802.11n(HT20)	Frequency(MHz):	5500	Remark:	Peak	Vertical
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Data: 487



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 3796CR

Mode: : 5500 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	5460.00	6.33	34.97	39.24	48.75	50.81	74.00	-23.19
2 pp	5503.20	6.37	35.11	39.24	99.27	101.51	74.00	27.51



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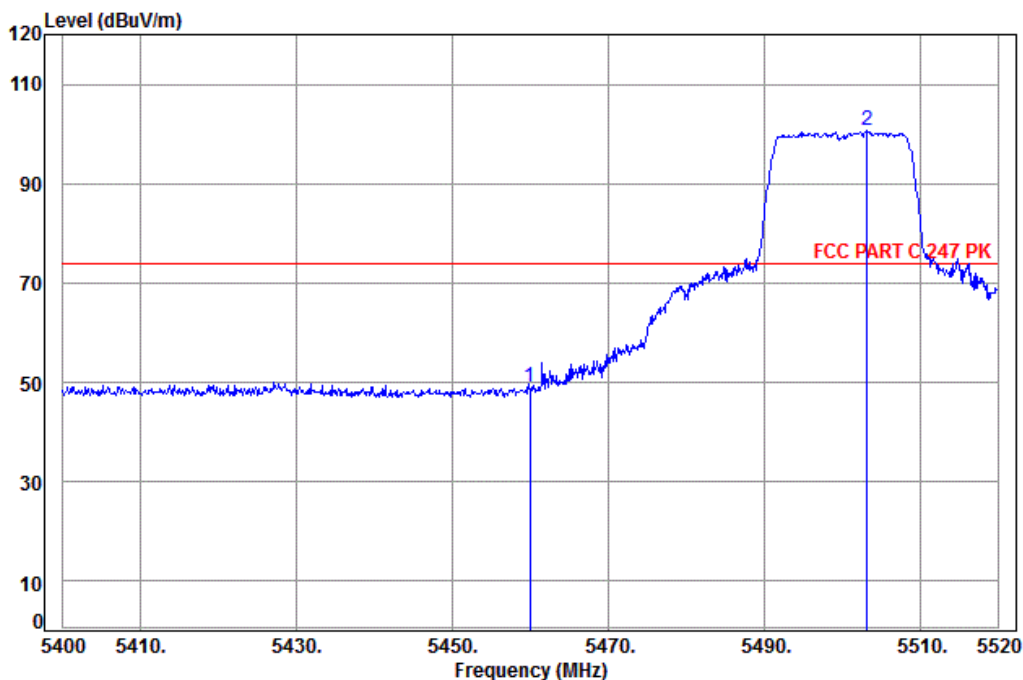
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

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Test mode:	802.11n(HT20)	Frequency(MHz):	5500	Remark:	Peak	Horizontal
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Data: 488



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 3796CR

Mode: : 5500 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	5460.00	6.33	34.97	39.24	46.91	48.97	74.00	-25.03
2 pp	5503.20	6.37	35.11	39.24	98.37	100.61	74.00	26.61

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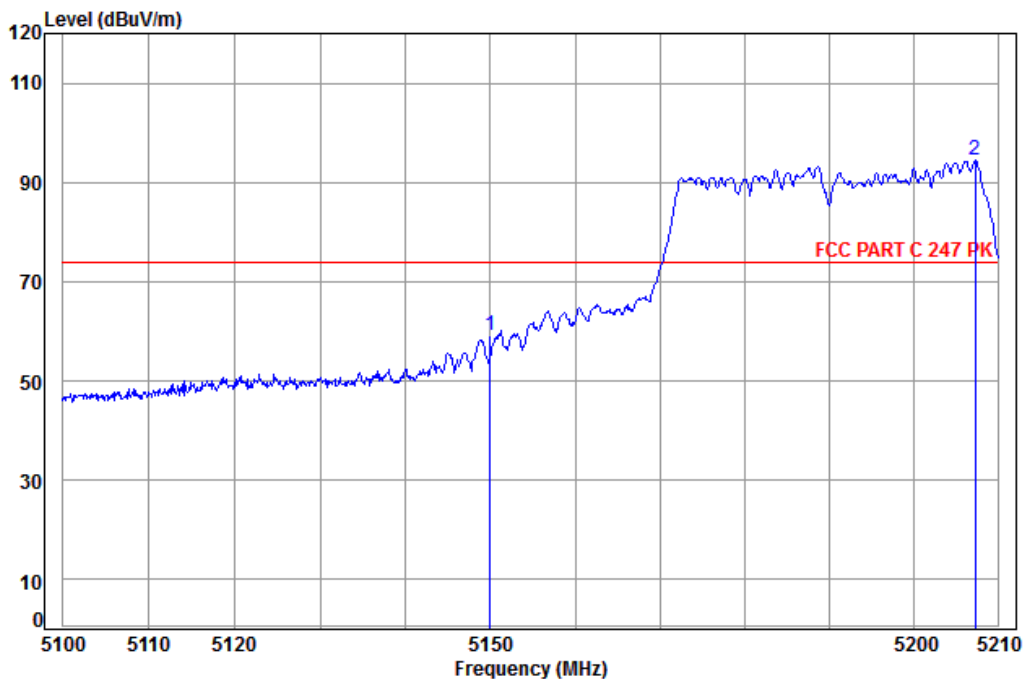
SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch

Report No.: SZEM150600379603

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Test mode:	802.11n(HT40)	Frequency(MHz):	5190	Remark:	Peak	Vertical
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Data: 486



Site : chamber
Condition: FCC PART C 247 PK 3m Vertical
Job No: : 3796CR
Mode: : 5190 N 40 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	5150.00	6.10	34.86	39.28	57.57	59.25	74.00	-14.75
2	5207.33	6.15	34.85	39.27	92.63	94.36	74.00	20.36

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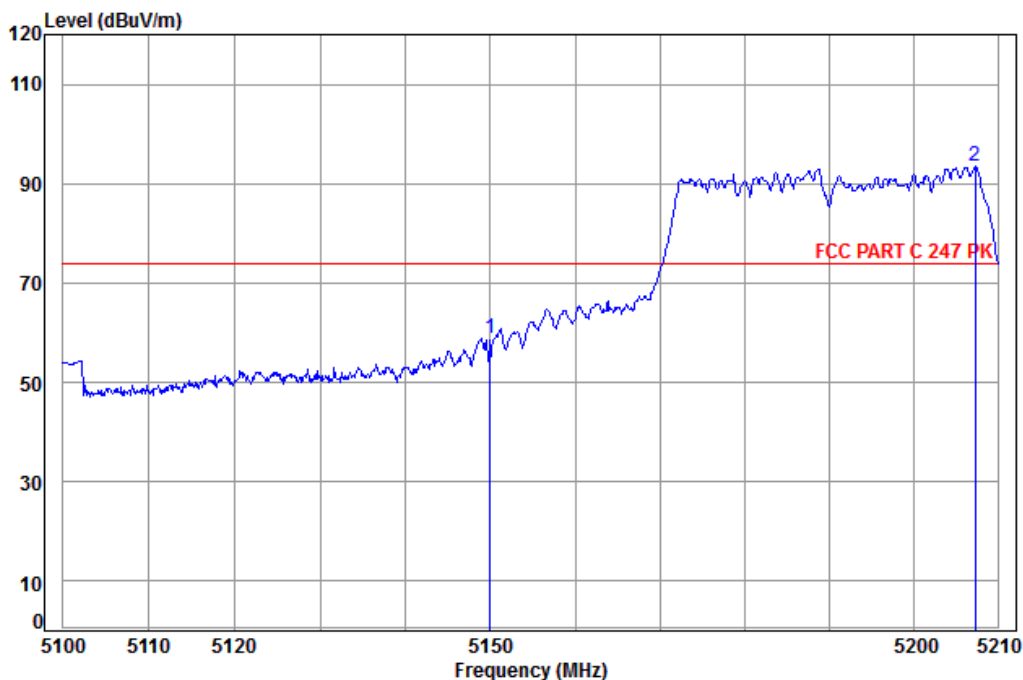
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Test mode:	802.11n(HT40)	Frequency(MHz):	5190	Remark:	Peak	Horizontal
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Data: 483



Site : chamber
Condition: FCC PART C 247 PK 3m Horizontal
Job No: : 3796CR
Mode: : 5190 N 40 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	5150.00	6.10	34.86	39.28	57.34	59.02	74.00	-14.98
2	5207.33	6.15	34.85	39.27	91.73	93.46	74.00	19.46

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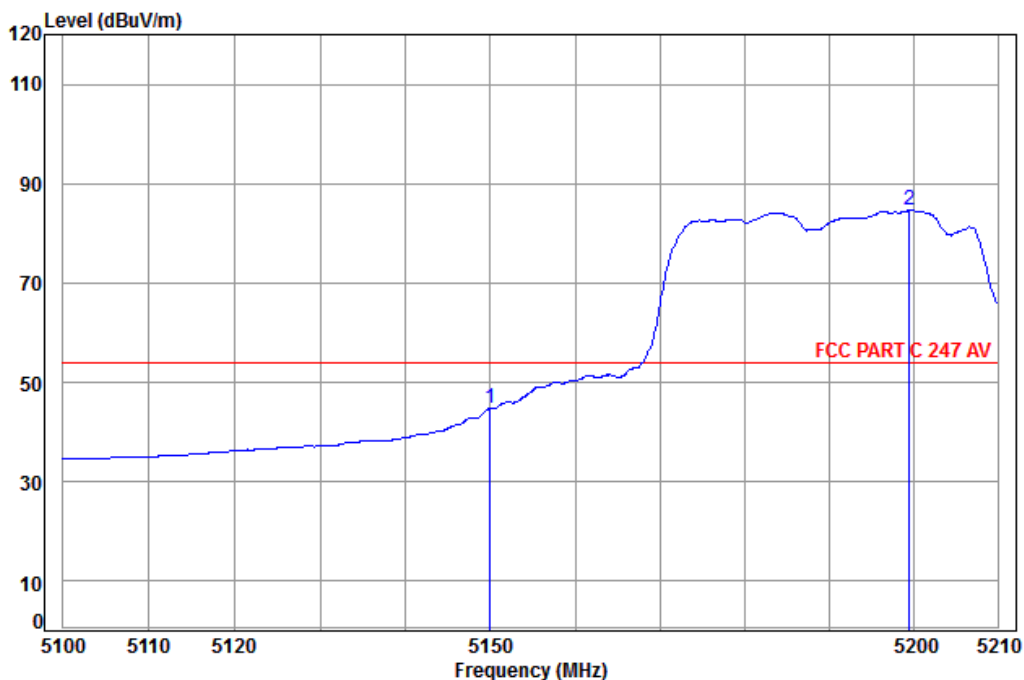
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Test mode:	802.11n(HT40)	Frequency(MHz):	5190	Remark:	Average	Vertical
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Data: 484



Site : chamber

Condition: FCC PART C 247 AV 3m Vertical

Job No: : 3796CR

Mode: : 5190 N 40 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	5150.00	6.10	34.86	39.28	42.99	44.67	54.00	-9.33
2 pp	5199.56	6.14	34.85	39.28	82.93	84.64	54.00	30.64

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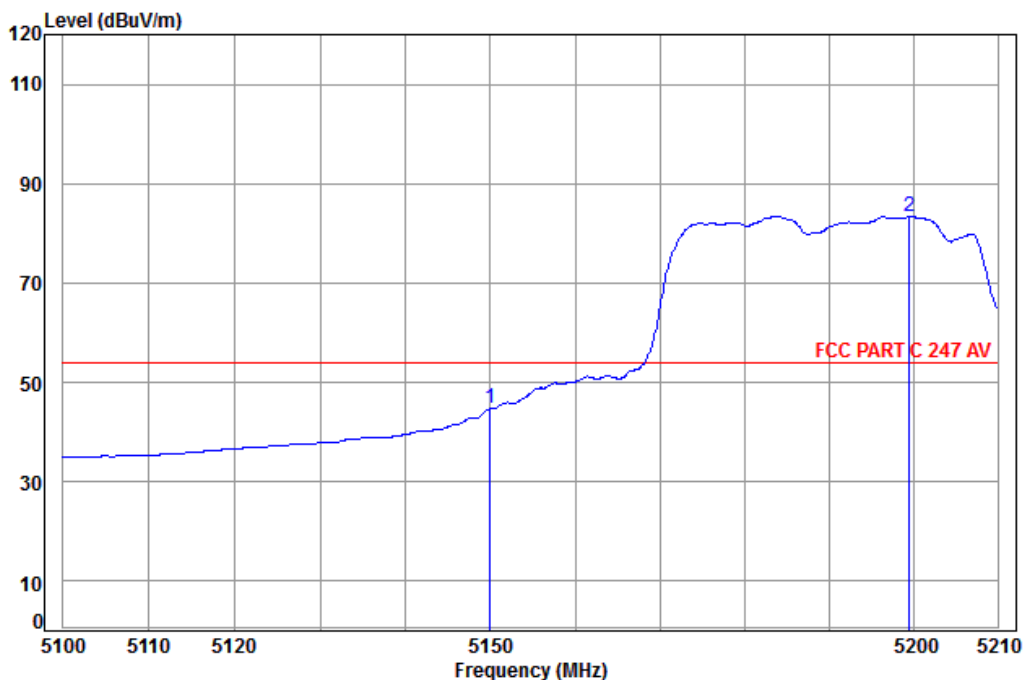
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Test mode:	802.11n(HT40)	Frequency(MHz):	5190	Remark:	Average	Horizontal
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Data: 485



Site : chamber
Condition: FCC PART C 247 AV 3m Horizontal
Job No: : 3796CR
Mode: : 5190 N 40 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	5150.00	6.10	34.86	39.28	42.97	44.65	54.00	-9.35
2 pp	5199.56	6.14	34.85	39.28	81.70	83.41	54.00	29.41

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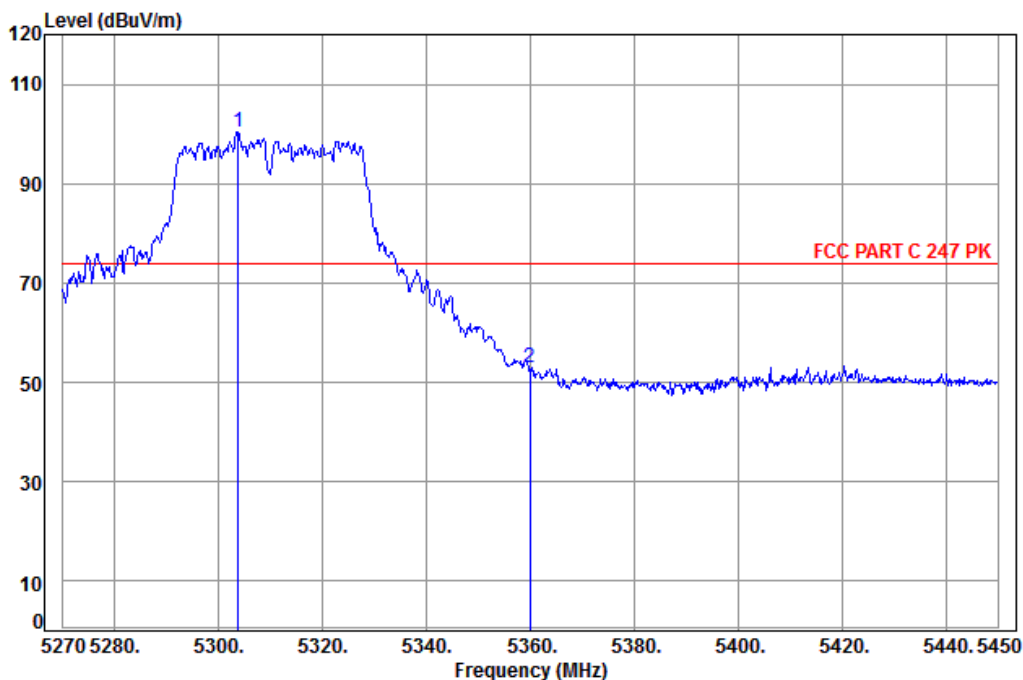
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Test mode:	802.11n(HT40)	Frequency(MHz):	5310	Remark:	Peak	Vertical
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Data: 497



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 3796CR

Mode: : 5310 N40 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	5303.66	6.22	34.81	39.26	98.63	100.40	74.00	26.40
2	5360.00	6.26	34.79	39.26	51.28	53.07	74.00	-20.93

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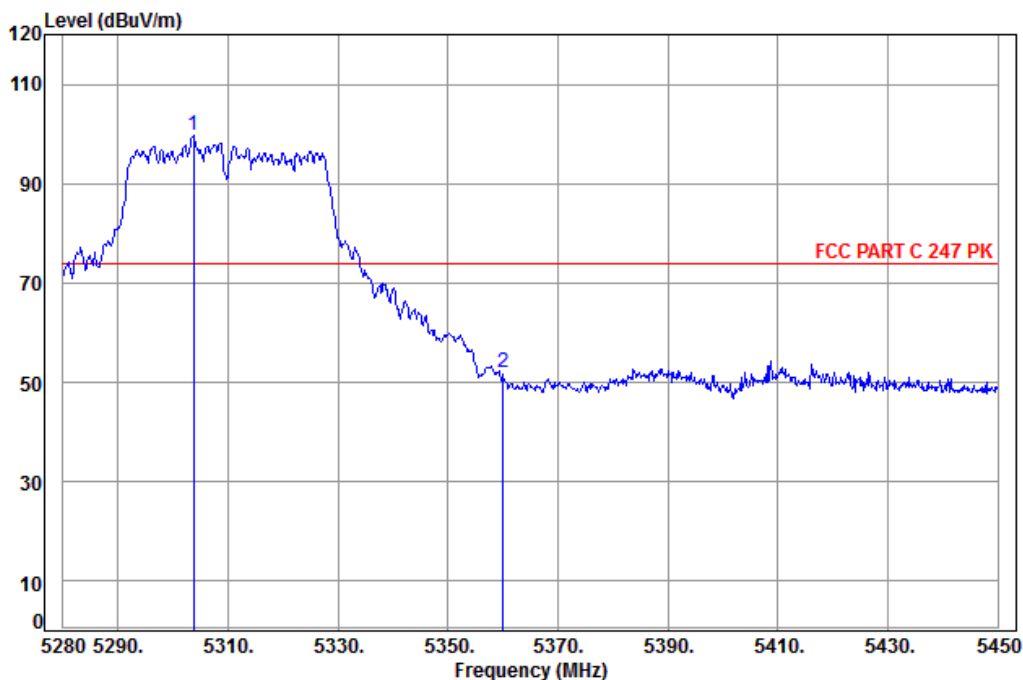
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Test mode:	802.11n(HT40)	Frequency(MHz):	5310	Remark:	Peak	Horizontal
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Data: 498



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 3796CR

Mode: : 5310 N40 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	5303.66	6.22	34.81	39.26	97.80	99.57	74.00	25.57
2	5360.00	6.26	34.79	39.26	50.20	51.99	74.00	-22.01

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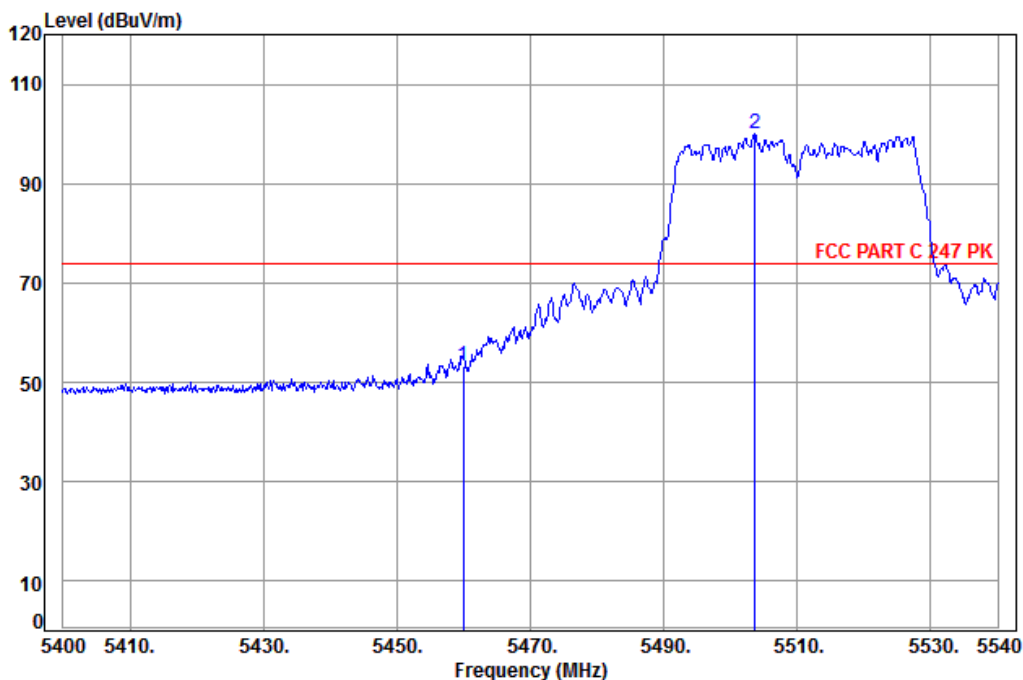
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Test mode:	802.11n(HT40)	Frequency(MHz):	5510	Remark:	Peak	Vertical
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Data: 491



Site : chamber

Condition: FCC PART C 247 PK 3m Vertical

Job No: : 3796CR

Mode: : 5510 N40 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	5460.00	6.33	34.97	39.24	51.13	53.19	74.00	-20.81
2 pp	5503.60	6.37	35.11	39.24	97.69	99.93	74.00	25.93

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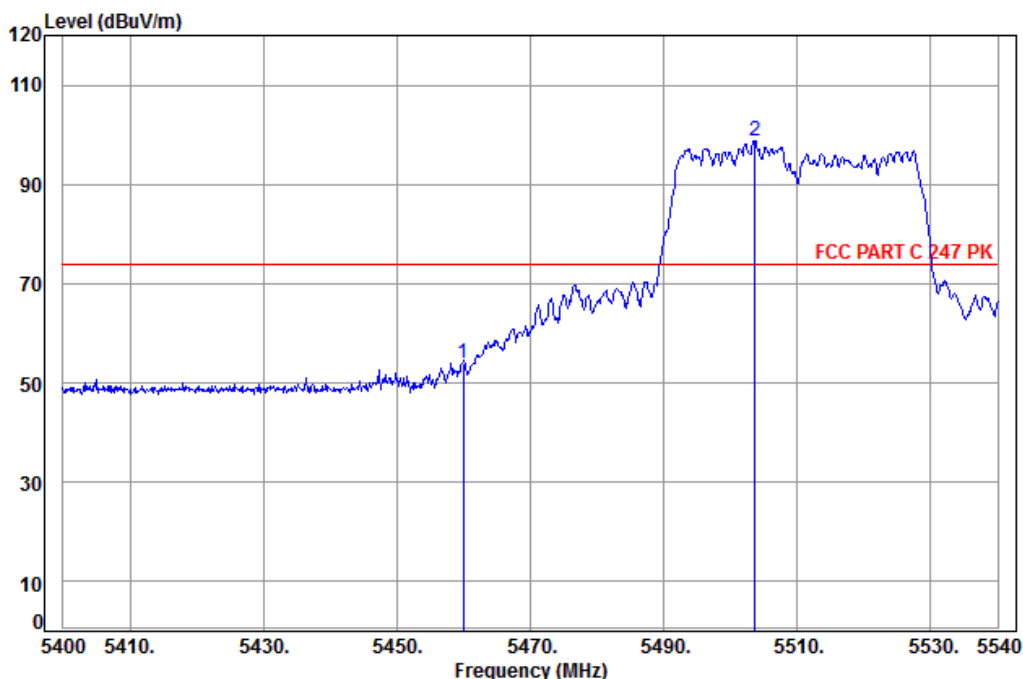
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Test mode:	802.11n(HT40)	Frequency(MHz):	5510	Remark:	Peak	Horizontal
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Data: 492



Site : chamber

Condition: FCC PART C 247 PK 3m Horizontal

Job No: : 3796CR

Mode: : 5510 N40 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	5460.00	6.33	34.97	39.24	51.82	53.88	74.00 -20.12
2 pp	5503.60	6.37	35.11	39.24	96.58	98.82	74.00 24.82

Note:

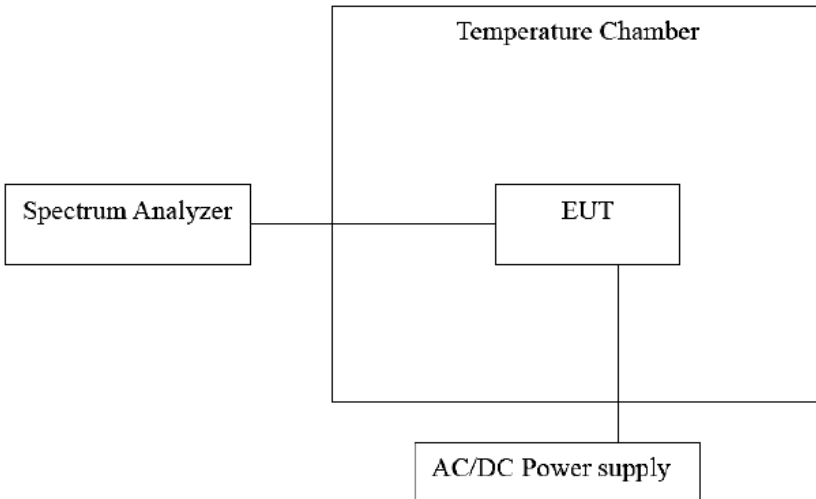
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

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

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6.9 Frequency Stability

Test Requirement:	47 CFR Part 15 Section 15.407(g)
Test Method:	ANSI C63.10: 2013
Test Setup:	
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 35 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Procedure:	<ol style="list-style-type: none">The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage.Turn the EUT on and couple its output to a spectrum analyzer.Turn the EUT off and set the chamber to the highest temperature specified.Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize.Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.
Final Test Mode:	Through Pre-scan, find the 6Mbps of rate is the worst case of 802.11a; MCSO of rate is the worst case of 802.11n(HT20); MCSO of rate is the worst case of 802.11n(HT40); Only the worst case is recorded in the report.





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Test plot as follows:

Test mode:		802.11a	Frequency(MHz):	5180
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5180.0092	9200	Pass
35		5180.0064	6400	Pass
25		5179.9878	-12200	Pass
15		5179.9983	-1700	Pass
5		5180.0038	3800	Pass
0		5180.0042	4200	Pass
20	138	5179.9831	-16900	Pass
	120	5180.0034	3400	Pass
	102	5179.9825	-17500	Pass

Test mode:		802.11a	Frequency(MHz):	5200
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5200.0090	9000	Pass
35		5200.0089	8900	Pass
25		5200.0078	7800	Pass
15		5200.0043	4300	Pass
5		5199.9980	-2000	Pass
0		5199.9879	-12100	Pass
20	138	5199.9957	-4300	Pass
	120	5200.0031	3100	Pass
	102	5200.0053	5300	Pass

Test mode:		802.11a	Frequency(MHz):	5240
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5240.0043	4300	Pass
35		5240.0029	2900	Pass
25		5240.0024	2400	Pass
15		5239.9991	-900	Pass
5		5239.9983	-1700	Pass
0		5239.9979	-2100	Pass
20	138	5240.0035	3500	Pass
	120	5240.0010	1000	Pass
	102	5239.9985	-1500	Pass

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Test mode:		802.11a		Frequency(MHz):	5260
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result	
45	120	5259.9975	-2500	Pass	
35		5259.9988	-1200	Pass	
25		5259.9989	-1100	Pass	
15		5259.9994	-600	Pass	
5		5260.0012	1200	Pass	
0		5260.0023	2300	Pass	
20	138	5260.0044	4400	Pass	
	120	5260.0009	900	Pass	
	102	5259.9983	-1700	Pass	

Test mode:		802.11a		Frequency(MHz):	5300
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result	
45	120	5300.0033	3300	Pass	
35		5300.0026	2600	Pass	
25		5300.0017	1700	Pass	
15		5300.0012	1200	Pass	
5		5299.9986	-1400	Pass	
0		5299.9982	-1800	Pass	
20	138	5300.0025	2500	Pass	
	120	5300.0013	1300	Pass	
	102	5300.0022	2200	Pass	

Test mode:		802.11a		Frequency(MHz):	5320
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result	
45	120	5320.0084	8400	Pass	
35		5320.0043	4300	Pass	
25		5320.0038	3800	Pass	
15		5320.0013	1300	Pass	
5		5320.0032	3200	Pass	
0		5319.9979	-2100	Pass	
20	138	5320.0032	3200	Pass	
	120	5320.0011	1100	Pass	
	102	5320.0035	3500	Pass	

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Test mode:		802.11a	Frequency(MHz):	5500
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5500.0103	10300	Pass
35		5500.0051	5100	Pass
25		5500.0045	4500	Pass
15		5500.0023	2300	Pass
5		5499.9984	-1600	Pass
0		5500.0039	3900	Pass
20	138	5500.0031	3100	Pass
	120	5500.0019	1900	Pass
	102	5500.0027	2700	Pass

Test mode:		802.11a	Frequency(MHz):	5600
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5599.9901	-9900	Pass
35		5599.9923	-7700	Pass
25		5599.9948	-5200	Pass
15		5599.9974	-2600	Pass
5		5599.9983	-1700	Pass
0		5600.0034	3400	Pass
20	138	5600.0042	4200	Pass
	120	5600.0032	3200	Pass
	102	5600.0048	4800	Pass

Test mode:		802.11a	Frequency(MHz):	5700
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5700.0102	10200	Pass
35		5700.0053	5300	Pass
25		5700.0035	3500	Pass
15		5700.0013	1300	Pass
5		5699.9982	-1800	Pass
0		5700.0042	4200	Pass
20	138	5700.0042	4200	Pass
	120	5700.0014	1400	Pass
	102	5699.9988	-1200	Pass

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Test mode:		802.11a		Frequency(MHz):	5745
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result	
45	120	5745.0118	11800	Pass	
35		5745.0082	8200	Pass	
25		5745.0078	7800	Pass	
15		5745.0031	3100	Pass	
5		5744.9962	-3800	Pass	
0		5744.9982	-1800	Pass	
20	138	5745.0013	1300	Pass	
	120	5745.0014	1400	Pass	
	102	5745.0024	2400	Pass	

Test mode:		802.11a		Frequency(MHz):	5785
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result	
45	120	5785.0086	8600	Pass	
35		5785.0029	2900	Pass	
25		5785.0021	2100	Pass	
15		5785.0009	900	Pass	
5		5785.0028	2800	Pass	
0		5785.0037	3700	Pass	
20	138	5785.0033	3300	Pass	
	120	5785.0014	1400	Pass	
	102	5784.9976	-2400	Pass	

Test mode:		802.11a		Frequency(MHz):	5825
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result	
45	120	5825.0097	9700	Pass	
35		5825.0042	4200	Pass	
25		5825.0023	2300	Pass	
15		5824.9989	-1100	Pass	
5		5824.9975	-2500	Pass	
0		5824.9964	-3600	Pass	
20	138	5825.0032	3200	Pass	
	120	5825.0013	1300	Pass	
	102	5825.0025	2500	Pass	

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Test mode:		802.11n(HT20)	Frequency(MHz):	5180
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5180.0095	9500	Pass
35		5180.0034	3400	Pass
25		5179.9984	-1600	Pass
15		5179.9991	-900	Pass
5		5180.0023	2300	Pass
0		5180.0032	3200	Pass
20	138	5180.0024	2400	Pass
	120	5179.9994	-600	Pass
	102	5179.9990	-1000	Pass

Test mode:		802.11n(HT20)	Frequency(MHz):	5200
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5200.0089	8900	Pass
35		5200.0043	4300	Pass
25		5200.0032	3200	Pass
15		5200.0013	1300	Pass
5		5200.0029	2900	Pass
0		5200.0044	4400	Pass
20	138	5199.9974	-2600	Pass
	120	5199.9993	-700	Pass
	102	5200.0037	3700	Pass

Test mode:		802.11n(HT20)	Frequency(MHz):	5240
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5240.0092	9200	Pass
35		5240.0024	2400	Pass
25		5240.0038	3800	Pass
15		5240.0013	1300	Pass
5		5240.0042	4200	Pass
0		5240.0045	4500	Pass
20	138	5240.0036	3600	Pass
	120	5239.9995	-500	Pass
	102	5239.9985	-1500	Pass

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Test mode:		802.11n(HT20)	Frequency(MHz):	5260
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5260.0108	10800	Pass
35		5260.0042	4200	Pass
25		5260.0023	2300	Pass
15		5259.9989	-1100	Pass
5		5259.9977	-2300	Pass
0		5260.0037	3700	Pass
20	138	5260.0026	2600	Pass
	120	5260.0020	2000	Pass
	102	5260.0039	3900	Pass

Test mode:		802.11n(HT20)	Frequency(MHz):	5300
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5300.0102	10200	Pass
35		5300.0048	4800	Pass
25		5299.9989	-1100	Pass
15		5300.0014	1400	Pass
5		5299.9968	-3200	Pass
0		5299.9938	-6200	Pass
20	138	5299.9925	-7500	Pass
	120	5300.0015	1500	Pass
	102	5300.0026	2600	Pass

Test mode:		802.11n(HT20)	Frequency(MHz):	5320
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5320.0096	9600	Pass
35		5320.0042	4200	Pass
25		5320.0036	3600	Pass
15		5320.0012	1200	Pass
5		5320.0032	3200	Pass
0		5319.9973	-2700	Pass
20	138	5319.9978	-2200	Pass
	120	5319.9988	-1200	Pass
	102	5319.9965	-3500	Pass

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Test mode:		802.11n(HT20)	Frequency(MHz):	5500
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5500.0113	11300	Pass
35		5500.0063	6300	Pass
25		5500.0052	5200	Pass
15		5500.0023	2300	Pass
5		5500.0055	5500	Pass
0		5499.9968	-3200	Pass
20	138	5500.0042	4200	Pass
	120	5500.0012	1200	Pass
	102	5500.0033	3300	Pass

Test mode:		802.11n(HT20)	Frequency(MHz):	5600
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5600.0085	8500	Pass
35		5600.0023	2300	Pass
25		5600.0042	4200	Pass
15		5600.0016	1600	Pass
5		5600.0034	3400	Pass
0		5600.0045	4500	Pass
20	138	5599.9929	-7100	Pass
	120	5599.9992	-800	Pass
	102	5599.9964	-3600	Pass

Test mode:		802.11n(HT20)	Frequency(MHz):	5700
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5700.0096	9600	Pass
35		5700.0034	3400	Pass
25		5699.9983	-1700	Pass
15		5700.0021	2100	Pass
5		5700.0042	4200	Pass
0		5699.9935	-6500	Pass
20	138	5699.9982	-1800	Pass
	120	5700.0023	2300	Pass
	102	5700.0043	4300	Pass

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Test mode:		802.11n(HT20)	Frequency(MHz):	5745
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5745.0076	7600	Pass
35		5745.0028	2800	Pass
25		5745.0035	3500	Pass
15		5745.0024	2400	Pass
5		5745.0013	1300	Pass
0		5745.0034	3400	Pass
20	138	5745.0042	4200	Pass
	120	5744.9979	-2100	Pass
	102	5745.0035	3500	Pass

Test mode:		802.11n(HT20)	Frequency(MHz):	5785
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5785.0106	10600	Pass
35		5785.0048	4800	Pass
25		5785.0029	2900	Pass
15		5784.9987	-1300	Pass
5		5784.9944	-5600	Pass
0		5785.0024	2400	Pass
20	138	5785.0038	3800	Pass
	120	5785.0021	2100	Pass
	102	5785.0052	5200	Pass

Test mode:		802.11n(HT20)	Frequency(MHz):	5825
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5824.9813	-18700	Pass
35		5824.9952	-4800	Pass
25		5824.9953	-4700	Pass
15		5824.9985	-1500	Pass
5		5825.0015	1500	Pass
0		5825.0046	4600	Pass
20	138	5825.0042	4200	Pass
	120	5824.9987	-1300	Pass
	102	5825.0024	2400	Pass

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Test mode:		802.11n(HT40)	Frequency(MHz):	5190
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5190.0127	12700	Pass
35		5190.0110	11000	Pass
25		5190.0104	10400	Pass
15		5190.0035	3500	Pass
5		5190.0062	6200	Pass
0		5190.0078	7800	Pass
20	138	5189.9910	-9000	Pass
	120	5189.9978	-2200	Pass
	102	5190.0042	4200	Pass

Test mode:		802.11n(HT40)	Frequency(MHz):	5230
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5230.0128	12800	Pass
35		5230.0120	12000	Pass
25		5230.0099	9900	Pass
15		5229.9988	-1200	Pass
5		5229.9981	-1900	Pass
0		5230.0052	5200	Pass
20	138	5230.0042	4200	Pass
	120	5230.0029	2900	Pass
	102	5229.9978	-2200	Pass

Test mode:		802.11n(HT40)	Frequency(MHz):	5270
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5270.0096	9600	Pass
35		5270.0032	3200	Pass
25		5269.9963	-3700	Pass
15		5269.9974	-2600	Pass
5		5270.0036	3600	Pass
0		5270.0049	4900	Pass
20	138	5270.0053	5300	Pass
	120	5270.0033	3300	Pass
	102	5270.0039	3900	Pass

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Test mode:		802.11n(HT40)	Frequency(MHz):	5310
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5310.0106	10600	Pass
35		5310.0052	5200	Pass
25		5310.0049	4900	Pass
15		5310.0023	2300	Pass
5		5310.0021	2100	Pass
0		5310.0043	4300	Pass
20	138	5309.9935	-6500	Pass
	120	5310.0020	2000	Pass
	102	5310.0032	3200	Pass

Test mode:		802.11n(HT40)	Frequency(MHz):	5510
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5510.0097	9700	Pass
35		5510.0032	3200	Pass
25		5510.0042	4200	Pass
15		5510.0035	3500	Pass
5		5510.0023	2300	Pass
0		5510.0029	2900	Pass
20	138	5510.0035	3500	Pass
	120	5509.9987	-1300	Pass
	102	5510.0045	4500	Pass

Test mode:		802.11n(HT40)	Frequency(MHz):	5590
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5590.0125	12500	Pass
35		5590.0098	9800	Pass
25		5590.0083	8300	Pass
15		5590.0035	3500	Pass
5		5590.0032	3200	Pass
0		5590.0028	2800	Pass
20	138	5589.9938	-6200	Pass
	120	5589.9983	-1700	Pass
	102	5590.0073	7300	Pass

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Test mode:		802.11n(HT40)	Frequency(MHz):	5670
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5670.0118	11800	Pass
35		5670.0099	9900	Pass
25		5670.0102	10200	Pass
15		5670.0036	3600	Pass
5		5669.9966	-3400	Pass
0		5670.0044	4400	Pass
20	138	5670.0043	4300	Pass
	120	5670.0033	3300	Pass
	102	5670.0047	4700	Pass

Test mode:		802.11n(HT40)	Frequency(MHz):	5755
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5755.0273	27300	Pass
35		5755.0120	12000	Pass
25		5755.0117	11700	Pass
15		5755.0096	9600	Pass
5		5755.0035	3500	Pass
0		5755.0075	7500	Pass
20	138	5755.0046	4600	Pass
	120	5755.0032	3200	Pass
	102	5755.0063	6300	Pass

Test mode:		802.11n(HT40)	Frequency(MHz):	5795
Temperature (°C)	Voltage(VAC)	Measurement Frequency(MHz)	Delta Frequency(Hz)	Result
45	120	5794.9802	-19800	Pass
35		5794.9843	-15700	Pass
25		5795.0045	4500	Pass
15		5795.0032	3200	Pass
5		5795.0029	2900	Pass
0		5795.0084	8400	Pass
20	138	5795.0057	5700	Pass
	120	5794.9983	-1700	Pass
	102	5794.9955	-4500	Pass

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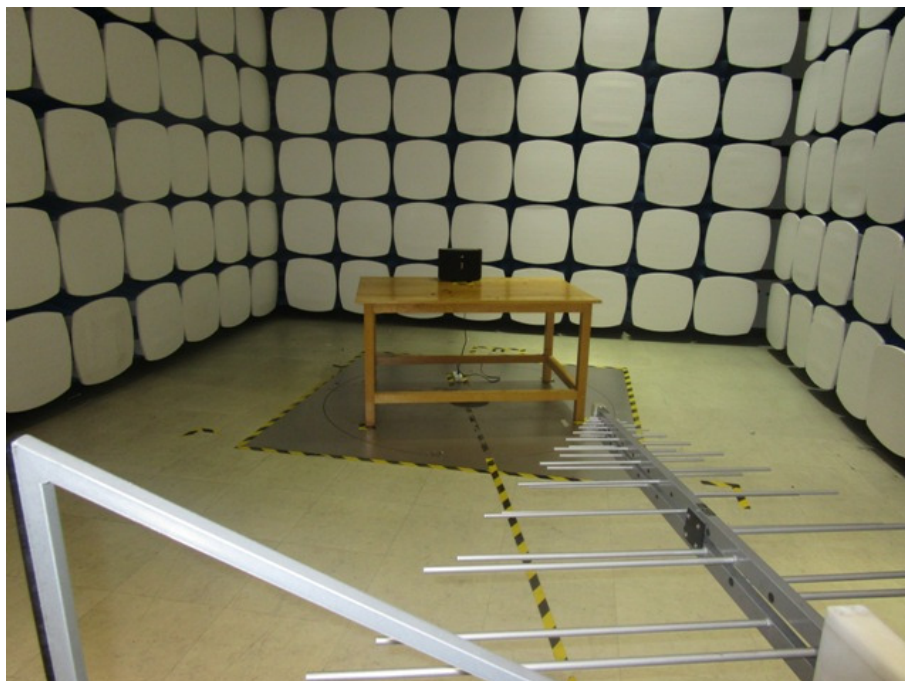
7 Photographs - EUT Test Setup

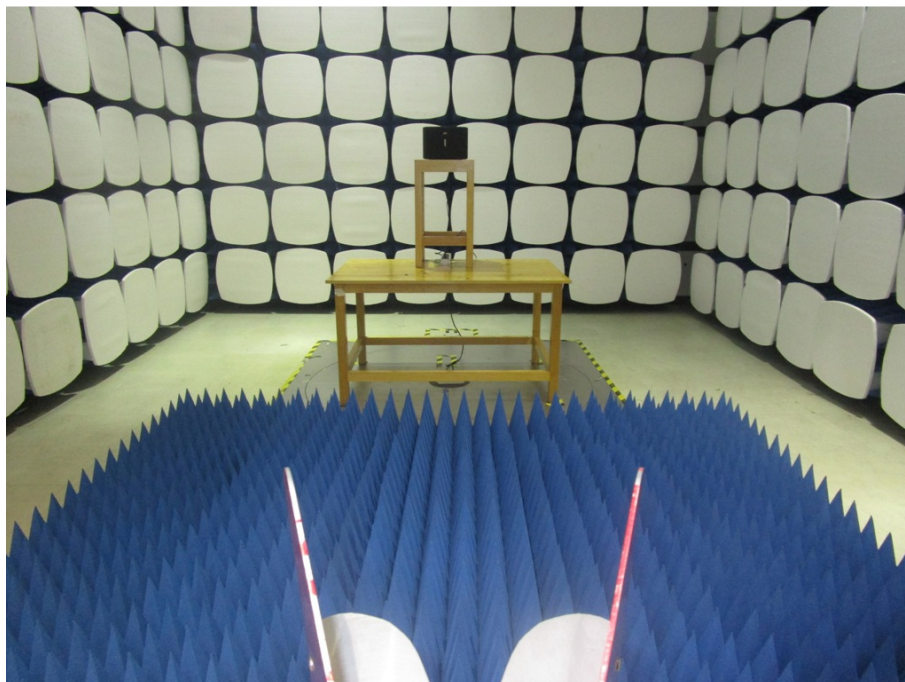
Test model No.: OMNI S6

7.1 Conducted Emission



7.2 Radiated Spurious Emission





8 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1506003796CR.