



FCC PART 15.407

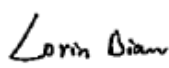
TEST REPORT

For

Huawei Technologies Co.,Ltd

Administration Building, Headquarters of Huawei Technologies Co.,Ltd., Bantian, Longgang District, Shenzhen, 518129, P.R.C

Test Model: EchoLife HS8245W
FCC ID: QISHS8245W1

Report Type: Class II permissive change	Product Name: GPON Terminal
Test Engineer: <u>Lorin Bian</u>	
Report Number: <u>RDG170105002E</u>	
Report Date: <u>2017-02-07</u>	
Reviewed By: <u>Henry Ding</u> EMC Leader	
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Chengdu) 5040, HuiLongWan Plaza, No. 1, ShaWan Road, JinNiu District, ChengDu, China Tel: 028-65523123, Fax: 028-65525125 www.baclcorp.com

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The **Huawei Technologies Co.,Ltd**'s product, model number: **EchoLife HS8245W (FCC ID: QISHS8245W1)** (the "EUT") in this report was a **GPON Terminal**, which was measured approximately: 295 mm (L) x 180 mm (W) x 82 mm (H), rated input voltage: DC 12V for adapter.

**All measurement and test data in this report was gathered from final production sample, serial number: 161027004 (assigned by the BACL, Chengdu). It may have deviation from any other sample. The EUT supplied by the applicant was received on 2016-10-28, and EUT conformed to test requirement.*

Objective

This type approval report is prepared on behalf of **Huawei Technologies Co.,Ltd** in accordance with Part 2-Subpart J, Part 15-Subparts A, B and E of the Federal Communications Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart E, section 15.203, 15.205, 15.207, 15.209 and 15.407 rules.

This is the Class II Permissive Change application of the device. The difference between the original device and the current one is as follows:

1. Add the frequency band: 5250~5350 MHz, 5470~5725 MHz.
2. Add the frequency band: 5150~5250 MHz band 802.11a/n ht20/ac vht20 channel 48(5240MHz), 802.11 n ht40/ac vht40 channel 46(5230MHz), and 802.11ac80 channel 42(5210MHz)

The change made to the device affected all the test results except conducted emissions, so we updated related test datas.

Related Submittal(s)/Grant(s)

Original submission with FCC ID: QISHS8245W1 which was granted on 2017-01-23.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Chengdu). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

The uncertainty of any RF tests which use conducted method measurement is ± 3.17 dB, the uncertainty of any radiation on emissions measurement is:

30M~200MHz: ± 4.7 dB;

200M~1GHz: ± 6.0 dB;

1G-6GHz: ± 5.13 dB;

6G~25GHz: ± 5.47 dB;

And the uncertainty will not be taken into consideration for all test data recorded in the report.

Test Facility

The test site used by BACL to collect test data is located in the 5040, HuiLongWan Plaza, No. 1, ShaWan Road, JinNiu District, ChengDu, China

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC). The details of these reports have been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on April 24, 2015. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 560332. The test site has been approved by the FCC for public use and is listed in the FCC Public Access Link (PAL) database.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The EUT was configured for testing in an engineering mode which was provided by the manufacturer.

The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80, the vh20/vht40 were reduced since the identical parameters with 802.11n ht20 and ht40. 802.11n and 802.11ac supports both beamforming and non-beamforming modes.

For 5150~5250 MHz band, 802.11a/n ht20 channel 48(5240MHz), 802.11 n ht40 channel 46(5230MHz), and 802.11ac80 channel 42(5210MHz) were tested.

For 5250~5350 MHz band, 7 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
52	5260	60	5300
54	5270	62	5310
56	5280	64	5320
58	5290	/	/

For 5470~5725MHz band, 21 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
100	5500	124	5620
102	5510	126	5630
104	5520	128	5640
106	5530	132	5660
108	5540	134	5670
110	5550	136	5680
112	5560	138	5690
116	5580	140	5700
118	5590	142	5710
120	5600	144	5720
122	5610	/	/

Channel 144 for 802.11a, n ht20, 142 for 802.11n ht40, 138 for ac80 crossed the band U-NII 2C to U-NII 3, were chosed to test for compliance requirement.

The device support MIMO for all modes, the worst-case data rates are determined to be as follows for each mode based upon investigations by measuring the average power and PSD across all data rates bandwidths, and modulations. Preliminary tests were performed in difference data rate and all the possible configurations, the worst cases as below table and shown in the report.

Configurations	Test Mode	Data Rate	Channel	Antenna Chain
SISO	802.11a	6Mbps	48, 52, 56, 64 100, 120, 140, 144	0, 1, 2, 3
	802.11n ht20	MCS0_20	48, 52, 56, 64 100, 120, 140, 144	0, 1, 2, 3
	802.11n ht40	MCS0_40	46, 54, 62 102, 118, 134, 142	0, 1, 2, 3
	802.11ac 80	AC-MCS0_80	42, 58, 106, 122, 138	0, 1, 2, 3
2*2 MIMO Non- Beamforming	802.11a	6Mbps	48, 52, 56, 64 100, 120, 140, 144	0+1
	802.11n ht20	MCS0_20	48, 52, 56, 64 100, 120, 140, 144	0+1
	802.11n ht40	MCS0_40	46, 54, 62 102, 118, 134, 142	0+1
	802.11ac 80	AC-MCS0_80	42, 58, 106, 122, 138	0+1
3*3 MIMO Non- Beamforming	802.11a	6Mbps	48, 52, 56, 64 100, 120, 140, 144	0+1+2
	802.11n ht20	MCS0_20	48, 52, 56, 64 100, 120, 140, 144	0+1+2
	802.11n ht40	MCS0_40	46, 54, 62 102, 118, 134, 142	0+1+2
	802.11ac 80	AC-MCS0_80	42, 58, 106, 122, 138	0+1+2
4*4 MIMO Non- Beamforming	802.11a	6Mbps	48, 52, 56, 64 100, 120, 140, 144	0+1+2+3
	802.11n ht20	MCS0_20	48, 52, 56, 64 100, 120, 140, 144	0+1+2+3
	802.11n ht40	MCS0_40	46, 54, 62 102, 118, 134, 142	0+1+2+3
	802.11ac 80	AC-MCS0_80	42, 58, 106, 122, 138	0+1+2+3
2*2 MIMO Beamforming	802.11n ht20	MCS0_20	48, 52, 56, 64 100, 120, 140, 144	0+1
	802.11n ht40	MCS0_40	46, 54, 62 102, 118, 134, 142	0+1
	802.11ac 80	AC-MCS0_80	42, 58, 106, 122, 138	0+1
3*3 MIMO Beamforming	802.11n ht20	MCS0_20	48, 52, 56, 64 100, 120, 140, 144	0+1+2
	802.11n ht40	MCS0_40	46, 54, 62 102, 118, 134, 142	0+1+2
	802.11ac 80	AC-MCS0_80	42, 58, 106, 122, 138	0+1+2
4*4 MIMO Beamforming	802.11n ht20	MCS0_20	48, 52, 56, 64 100, 120, 140, 144	0+1+2+3
	802.11n ht40	MCS0_40	46, 54, 62 102, 118, 134, 142	0+1+2+3
	802.11ac 80	AC-MCS0_80	42, 58, 106, 122, 138	0+1+2+3

Note: only output power and PSD test was performed with Cross Channels.

EUT Exercise Software

The software "IPOR&QSPR" was used for testing, and the commands were provided by manufacturer. The maximum power and duty cycle was set by commands as following table:

SISO:

Software and version				IPOR&QSPR				
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level			
					Chain 0	Chain 1	Chain 2	Chain 3
5150-5250 MHz	802.11 a	High	5240	6	22	22	22	22
	802.11 n20	High	5240	MCS0_20	22	22	22	22
	802.11 n40	High	5230	MCS0_40	20	20	20	20
	802.11 ac80	Middle	5210	AC-MCS0_80	18	18	18	18
5250-5350 MHz	802.11 a	Low	5260	6	18	18	18	18
		Middle	5280	6	18	18	18	18
		High	5320	6	18	18	18	18
	802.11 n20	Low	5260	MCS0_20	18.5	18.5	18.5	18.5
		Middle	5280	MCS0_20	18.5	18.5	18.5	18.5
		High	5320	MCS0_20	18.5	18.5	18.5	18.5
	802.11 n40	Low	5270	MCS0_40	21	21	21	21
		High	5310	MCS0_40	21	21	21	21
	802.11 ac80	Middle	5290	AC-MCS0_80	19	19	19	19
5470-5725 MHz	802.11 a	Low	5500	6	17.5	17.5	17.5	17.5
		Middle	5600	6	17.5	17.5	17.5	17.5
		High	5700	6	17.5	17.5	17.5	17.5
	802.11 n20	Low	5500	MCS0_20	18	18	18	18
		Middle	5600	MCS0_20	18	18	18	18
		Middle	5700	MCS0_20	18	18	18	18
	802.11 n40	Low	5510	MCS0_40	19	19	19	19
		Middle	5590	MCS0_40	19	19	19	19
		High	5670	MCS0_40	20	20	20	20
	802.11 ac80	Low	5530	AC-MCS0_80	19	19	19	19
		High	5610	AC-MCS0_80	19	19	19	19
Cross Channel	802.11 a	High	5720	6	17.5	17.5	17.5	17.5
	802.11 n20	High	5720	MCS0_20	18	18	18	18
	802.11 n40	High	5710	MCS0_40	20	20	20	20
	802.11 ac80	High	5690	AC-MCS0_80	19	19	19	19

MIMO 2X2 Non-beamforming:

Software and version				IPOR&QSPR	
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level Chain 0&1
5150-5250 MHz	802.11 a	High	5240	6	21
	802.11 n20	High	5240	MCS0_20	21
	802.11 n40	High	5230	MCS0_40	20
	802.11 ac80	Middle	5210	AC-MCS0_80	17
5250-5350 MHz	802.11 a	Low	5260	6	15
		Middle	5280	6	15
		High	5320	6	15
	802.11 n20	Low	5260	MCS0_20	15.5
		Middle	5280	MCS0_20	15.5
		High	5320	MCS0_20	15.5
	802.11 n40	Low	5270	MCS0_40	19
		High	5310	MCS0_40	19
	802.11 ac80	Middle	5290	AC-MCS0_80	19
5470-5725 MHz	802.11 a	Low	5500	6	14.5
		Middle	5600	6	14.5
		High	5700	6	14.5
	802.11 n20	Low	5500	MCS0_20	15
		Middle	5600	MCS0_20	15
		Middle	5700	MCS0_20	15
	802.11 n40	Low	5510	MCS0_40	17.5
		Middle	5590	MCS0_40	17.5
		High	5670	MCS0_40	17.5
	802.11 ac80	Low	5530	AC-MCS0_80	18
		High	5610	AC-MCS0_80	18
Cross Channel	802.11 a	High	5720	6	14.5
	802.11 n20	High	5720	MCS0_20	15
	802.11 n40	High	5710	MCS0_40	17.5
	802.11 ac80	High	5690	AC-MCS0_80	18

MIMO 3X3 Non-beamforming:

Software and version				IPOR&QSPR	
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level Chain 0&1&2
5150-5250 MHz	802.11 a	High	5240	6	19
	802.11 n20	High	5240	MCS0_20	19
	802.11 n40	High	5230	MCS0_40	20
	802.11 ac80	Middle	5210	AC-MCS0_80	17
5250-5350 MHz	802.11 a	Low	5260	6	12.5
		Middle	5280	6	12
		High	5320	6	12.5
	802.11 n20	Low	5260	MCS0_20	13
		Middle	5280	MCS0_20	12.5
		High	5320	MCS0_20	13
	802.11 n40	Low	5270	MCS0_40	15.5
		High	5310	MCS0_40	15.5
	802.11 ac80	Middle	5290	AC-MCS0_80	19
5470-5725 MHz	802.11 a	Low	5500	6	11.5
		Middle	5600	6	11.5
		High	5700	6	11.5
	802.11 n20	Low	5500	MCS0_20	12
		Middle	5600	MCS0_20	12
		Middle	5700	MCS0_20	12
	802.11 n40	Low	5510	MCS0_40	14.5
		Middle	5590	MCS0_40	14.5
		High	5670	MCS0_40	14.5
	802.11 ac80	Low	5530	AC-MCS0_80	18
		High	5610	AC-MCS0_80	18
Cross Channel	802.11 a	High	5720	6	11.5
	802.11 n20	High	5720	MCS0_20	12
	802.11 n40	High	5710	MCS0_40	14.5
	802.11 ac80	High	5690	AC-MCS0_80	18

MIMO 4X4 Non-beamforming:

Software and version				IPOR&QSPR	
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level Chain 0&1&2&3
5150-5250 MHz	802.11 a	High	5240	6	15.5
	802.11 n20	High	5240	MCS0_20	16.5
	802.11 n40	High	5230	MCS0_40	18
	802.11 ac80	Middle	5210	AC-MCS0_80	16
5250-5350 MHz	802.11 a	Low	5260	6	9.5
		Middle	5280	6	9.5
		High	5320	6	9.5
	802.11 n20	Low	5260	MCS0_20	10
		Middle	5280	MCS0_20	10
		High	5320	MCS0_20	10
	802.11 n40	Low	5270	MCS0_40	13
		High	5310	MCS0_40	13
	802.11 ac80	Middle	5290	AC-MCS0_80	18
5470-5725 MHz	802.11 a	Low	5500	6	8.5
		Middle	5600	6	9.5
		High	5700	6	9.5
	802.11 n20	Low	5500	MCS0_20	9.5
		Middle	5600	MCS0_20	9.5
		Middle	5700	MCS0_20	9.5
	802.11 n40	Low	5510	MCS0_40	12.5
		Middle	5590	MCS0_40	12.5
		High	5670	MCS0_40	12.5
	802.11 ac80	Low	5530	AC-MCS0_80	18
		High	5610	AC-MCS0_80	18
Cross Channel	802.11 a	High	5720	6	8.5
	802.11 n20	High	5720	MCS0_20	9.5
	802.11 n40	High	5710	MCS0_40	12.5
	802.11 ac80	High	5690	AC-MCS0_80	18

MIMO 2X2 with -beamforming:

Software and version				IPOR&QSPR	
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level Chain 0&1
5150-5250 MHz	802.11 a	High	5240	6	21
	802.11 n20	High	5240	MCS0_20	21
	802.11 n40	High	5230	MCS0_40	20
	802.11 ac80	Middle	5210	AC-MCS0_80	17
5250-5350 MHz	802.11 a	Low	5260	6	15
		Middle	5280	6	15
		High	5320	6	15
	802.11 n20	Low	5260	MCS0_20	15.5
		Middle	5280	MCS0_20	15.5
		High	5320	MCS0_20	15.5
	802.11 n40	Low	5270	MCS0_40	19
		High	5310	MCS0_40	19
	802.11 ac80	Middle	5290	AC-MCS0_80	19
5470-5725 MHz	802.11 a	Low	5500	6	14.5
		Middle	5600	6	14.5
		High	5700	6	14.5
	802.11 n20	Low	5500	MCS0_20	15
		Middle	5600	MCS0_20	15
		Middle	5700	MCS0_20	15
	802.11 n40	Low	5510	MCS0_40	17.5
		Middle	5590	MCS0_40	17.5
		High	5670	MCS0_40	17.5
	802.11 ac80	Low	5530	AC-MCS0_80	18
		High	5610	AC-MCS0_80	18
Cross Channel	802.11 a	High	5720	6	14.5
	802.11 n20	High	5720	MCS0_20	15
	802.11 n40	High	5710	MCS0_40	17.5
	802.11 ac80	High	5690	AC-MCS0_80	18

MIMO 3X3 with-beamforming:

Software and version				IPOR&QSPR	
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level Chain 0&1&2
5150-5250 MHz	802.11 a	High	5240	6	19
	802.11 n20	High	5240	MCS0_20	19
	802.11 n40	High	5230	MCS0_40	20
	802.11 ac80	Middle	5210	AC-MCS0_80	17
5250-5350 MHz	802.11 a	Low	5260	6	12.5
		Middle	5280	6	12
		High	5320	6	12.5
	802.11 n20	Low	5260	MCS0_20	13
		Middle	5280	MCS0_20	12.5
		High	5320	MCS0_20	13
	802.11 n40	Low	5270	MCS0_40	15.5
		High	5310	MCS0_40	15.5
	802.11 ac80	Middle	5290	AC-MCS0_80	19
5470-5725 MHz	802.11 a	Low	5500	6	11.5
		Middle	5600	6	11.5
		High	5700	6	11.5
	802.11 n20	Low	5500	MCS0_20	12
		Middle	5600	MCS0_20	12
		Middle	5700	MCS0_20	12
	802.11 n40	Low	5510	MCS0_40	14.5
		Middle	5590	MCS0_40	14.5
		High	5670	MCS0_40	14.5
	802.11 ac80	Low	5530	AC-MCS0_80	18
		High	5610	AC-MCS0_80	18
Cross Channel	802.11 a	High	5720	6	11.5
	802.11 n20	High	5720	MCS0_20	12
	802.11 n40	High	5710	MCS0_40	14.5
	802.11 ac80	High	5690	AC-MCS0_80	18

MIMO 4X4 with -beamforming:

Software and version				IPOR&QSPR	
UNII Band	Mode	Channel	Frequency (MHz)	Data Rate (Mbps)	Power Level Chain 0&1&2&3
5150-5250 MHz	802.11 a	High	5240	6	15.5
	802.11 n20	High	5240	MCS0_20	16.5
	802.11 n40	High	5230	MCS0_40	18
	802.11 ac80	Middle	5210	AC-MCS0_80	16
5250-5350 MHz	802.11 a	Low	5260	6	9.5
		Middle	5280	6	9.5
		High	5320	6	9.5
	802.11 n20	Low	5260	MCS0_20	10
		Middle	5280	MCS0_20	10
		High	5320	MCS0_20	10
	802.11 n40	Low	5270	MCS0_40	13
		High	5310	MCS0_40	13
	802.11 ac80	Middle	5290	AC-MCS0_80	18
5470-5725 MHz	802.11 a	Low	5500	6	8.5
		Middle	5600	6	9.5
		High	5700	6	9.5
	802.11 n20	Low	5500	MCS0_20	9.5
		Middle	5600	MCS0_20	9.5
		Middle	5700	MCS0_20	9.5
	802.11 n40	Low	5510	MCS0_40	12.5
		Middle	5590	MCS0_40	12.5
		High	5670	MCS0_40	12.5
	802.11 ac80	Low	5530	AC-MCS0_80	18
		High	5610	AC-MCS0_80	18
Cross Channel	802.11 a	High	5720	6	8.5
	802.11 n20	High	5720	MCS0_20	9.5
	802.11 n40	High	5710	MCS0_40	12.5
	802.11 ac80	High	5690	AC-MCS0_80	18

Note: the duty cycle was only related with data rate and test mode, the test plots please refer to the original report: RDG170105002D.

Mode	T _{on} (ms)	T _{on+off} (ms)	Duty Cycle (%)	Duty Cycle Factor 10*log(1/x) (dB)	Minimum Transmission Duration (T) (ms)
802.11a	2.07	2.10	98.57	0	2.07
802.11n ht20	5.00	5.02	99.60	0	5.00
802.11n ht40	2.44	2.46	99.19	0	2.44
802.11 ac80	1.16	1.20	96.67	0.15	1.16

Note: the duty cycle factor calculated only when the duty cycle less than 98%

Equipment Modifications

No modification was made to the EUT.

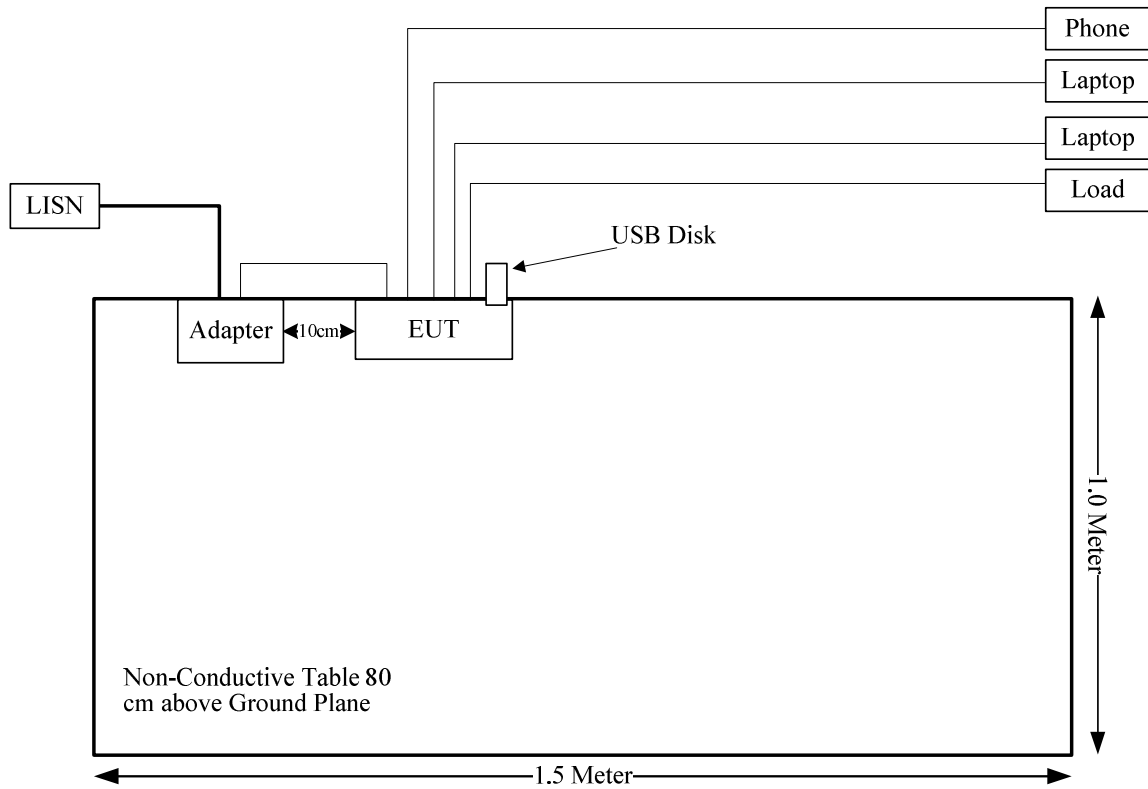
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Dell	Laptop	E6410	/
HUAWEI	Adapter	HW-120300U3W	/
Kingston	USB Disk	8G	/
Lusent	Phone	08D+	48589
DELL	Laptop	PP11L	QDS-BRCM1017

External I/O Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
RJ45 Cable*2	No	Yes	10	RJ45 Port of Laptop	EUT
DC Power Line	No	No	1.2	Adapter	EUT
RJ45 Cable*2	No	Yes	10	EUT	Load
RJ11 Cable	No	No	10	EUT	phone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.407 (f) & §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliance
§15.203	Antenna Requirement	Compliance
§15.407(b)(6)& §15.207(a)	Conducted Emissions	Compliance*
§15.205& §15.209 &§15.407(b) (1),(6),(7)	Undesirable Emission& Restricted Bands	Compliance
§15.407(a) (1) & §15.407(e)	26 dB Bandwidth	Compliance
§15.407(a)(1),	Conducted Transmitter Output Power	Compliance
§15.407 (a)(1),(5)	Power Spectral Density	Compliance
§15.407(H)	Dynamic Frequency Selection (DFS)	Compliance**

Compliance*: The test result is compliance, please refer to the original grant test report No. RDG170105002D with FCC ID: QISHS8245W1, which was issued on 2017-01-20.

Compliance**: please refer to the DFS test report: RDG170105002-00.

FCC §15.407 (f) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.407(f) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30
1500–100,000	/	/	1.0	30

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary:

Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

Calculated Data:

Frequency (MHz)	Antenna Gain		Output Power including Tune-up tolerance		Evaluation Distance (cm)	Power Density (mW/cm ²)	MPE Limit (mW/cm ²)
	(dBi)	(numeric)	(dBm)	(mW)			
2400- 2483.5	2	1.58	30	1000	20.00	0.31	1.0
5150-5850	2	1.58	30	1000	20.00	0.31	1.0

The 2.4GHz and 5GHz band can transmit simultaneously:

$$\sum_i \frac{S_i}{S_{Limit,i}}$$

$$=S_{2.4}/S_{limit-2.4} + S_5/S_{limit-5}$$

$$=0.31/1+0.31/1$$

$$=0.62$$

$$< 1.0$$

Result: Compliance, The device meets MPE requirement for Devices Used by the General Public (Uncontrolled Environment) at distance ≥20 cm.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

And according to FCC 47 CFR section 15.407 (a)(1), if transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Antenna Connector Construction

The EUT have 3 internal antennas for 2.4G WIFI and the gain of each antenna is 2.0 dBi, 4 internal antennas for 5G WIFI and the gain of each antenna is 2.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

FCC §15.209, §15.205 & §15.407(b) (1) (6) (7) –UNWANTED EMISSION

Applicable Standard

FCC §15.407; §15.209; §15.205;

(b) Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

(5) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(6) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(7) The provisions of §15.205 apply to intentional radiators operating under this section.

Measurement Uncertainty

Compliance or non-compliance with a disturbance limit shall be determined in the following manner:

If U_{lab} is less than or equal to U_{cispr} of Table 1, then:

–compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
–non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.

If U_{lab} is greater than U_{cispr} of Table 1, then:

–compliance is deemed to occur if no measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit;
–non-compliance is deemed to occur if any measured disturbance level, increased by $(U_{lab} - U_{cispr})$, exceeds the disturbance limit.

Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Chengdu) is:

30M~200MHz: ± 4.7 dB;

200M~1GHz: ± 6.0 dB;

1G~6GHz: ± 5.13 dB;

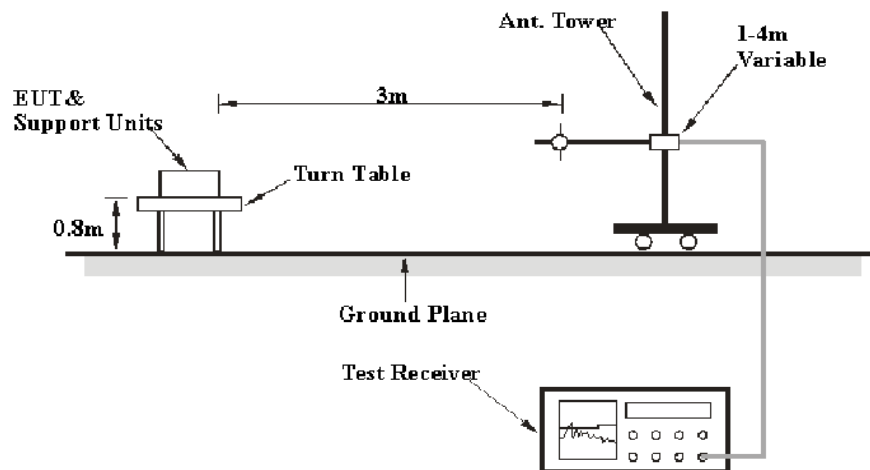
6G~25GHz: ± 5.47 dB;

Table 1 – Values of U_{CISPR}

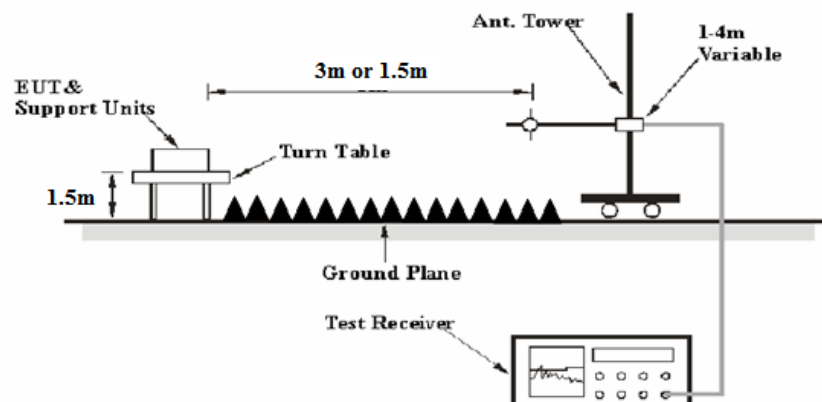
Measurement	U_{CISPR}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1 GHz:



Above 1 GHz:



The radiated emission tests were performed in the 3 meters chamber, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.407 limits.

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

The spacing between the peripherals was 10 cm.

The adapter connected to a 120 V/60 Hz AC power source.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

During the radiated emission test, the adapter was connected to the first AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1GHz, peak and Average detection modes for frequencies above 1GHz.

According to KDB 789033 D02 General UNII Test Procedures New Rules v01r03, emission shall be computed as: $E [dB\mu V/m] = EIRP[dBm] + 95.2$, for $d = 3$ meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation factor of 20dB/decade from 3m to 1.5m

Distance extrapolation factor = $20 \log (\text{specific distance } [3m] / \text{test distance } [1.5m])$ dB

Extrapolation result = Corrected Amplitude (dB μ V/m) - distance extrapolation factor (6dB)

Corrected Amplitude & Margin Calculation

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

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Loss} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Extrapolation result}$$

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Amplifier	8447D	2944A10442	2016-12-02	2017-12-01
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2016-12-02	2017-12-01
Sunol Sciences	Broadband Antenna	JB3	A101808	2016-04-10	2019-04-09
Rohde & Schwarz	Spectrum Analyzer	FSEM30	100018	2016-12-02	2017-12-01
ETS	Horn Antenna	3115	003-6076	2016-12-02	2017-12-01
Ducommun Technologies	Horn Antenna	ARH-4223-02	1007726-0113024	2014-06-16	2017-06-15
Mini-circuits	Amplifier	ZVA-183-S+	771001215	2016-05-20	2017-05-19
EMCT	Semi-Anechoic Chamber	966	N/A	2015-04-24	2018-04-23
N/A	RF Cable (below 1GHz)	NO.1	N/A	2016-11-10	2017-11-09
N/A	RF Cable (below 1GHz)	NO.4	N/A	2016-11-10	2017-11-09
N/A	RF Cable (above 1GHz)	NO.2	N/A	2016-11-10	2017-11-09
Ducommun Technologies	Horn Antenna	ARH-2823-02	1007726-011312	2016-08-18	2017-08-18
Quinstar	Amplifier	QLW-18405536-JO	15964001032	2016-08-18	2017-08-18
Agilent	Spectrum Analyzer	8564E	5943A01752	2016-08-18	2017-08-18

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, Section 15.205, 15.209 and Subpart E, section 15.407.

Test Data

Environmental Conditions

Temperature:	23.7 °C
Relative Humidity:	48 %
ATM Pressure:	101.2 kPa

The testing was performed by Lorin Bian on 2017-01-09.

Result: Compliance.

Note: the emission compliance 15.209 general requirements, or compliance the outside band emission limits in the un-restricted bands.

Please refer to the following tables:

Test Mode: Transmitting

SISO mode:

5150MHz-5250MHz, 802.11a mode(chain 0 was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	71.38	PK	H	31.83	5.27	0.00	108.48	N/A	N/A
5240	60.60	AV	H	31.83	5.27	0.00	97.7	N/A	N/A
5240	78.04	PK	V	31.83	5.27	0.00	115.14	N/A	N/A
5240	67.18	AV	V	31.83	5.27	0.00	104.28	N/A	N/A
5350	26.66	PK	V	32.03	5.37	0.00	64.06	74	9.94
5350	14.88	AV	V	32.03	5.37	0.00	52.28	54	1.72
10480	30.86	PK	V	37.40	7.84	26.35	49.75	74	24.25
10480	20.45	AV	V	37.40	7.84	26.35	39.34	54	14.66
15720	32.09	PK	V	39.44	10.24	25.30	56.47	74	17.53
15720	21.27	AV	V	39.44	10.24	25.30	45.65	54	8.35
1495	38.38	PK	V	24.09	2.66	26.33	38.8	74	35.2
1495	26.92	AV	V	24.09	2.66	26.33	27.34	54	26.66
2485	44.29	PK	V	23.25	2.99	26.89	43.64	74	30.36
2485	39.38	AV	V	23.25	2.99	26.89	38.73	54	15.27
500.45	41.5	QP	V	18.10	1.61	28.82	32.39	46.00	13.61

802.11n ht20 mode(chain 0 was the worst):

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	70.77	PK	H	31.83	5.27	0.00	107.87	N/A	N/A
5240	61.65	AV	H	31.83	5.27	0.00	98.75	N/A	N/A
5240	77.45	PK	V	31.83	5.27	0.00	114.55	N/A	N/A
5240	66.65	AV	V	31.83	5.27	0.00	103.75	N/A	N/A
5350	26.02	PK	V	32.03	5.37	0.00	63.42	74	10.58
5350	14.92	AV	V	32.03	5.37	0.00	52.32	54	1.68
10480	30.44	PK	V	37.40	7.84	26.35	49.33	74	24.67
10480	19.90	AV	V	37.40	7.84	26.35	38.79	54	15.21
15720	32.32	PK	V	39.44	10.24	25.30	56.7	74	17.3
15720	22.10	AV	V	39.44	10.24	25.30	46.48	54	7.52
1510	39.82	PK	V	24.12	2.68	26.34	40.28	74	33.72
1510	30.39	AV	V	24.12	2.68	26.34	30.85	54	23.15
2485	43.58	PK	V	23.25	2.99	26.89	42.93	74	31.07
2485	38.47	AV	V	23.25	2.99	26.89	37.82	54	16.18
500.45	42.24	QP	V	18.10	1.61	28.82	33.13	46.00	12.87

802.11n ht40 mode(chain 0 was the worst):

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
High Channel:5230 MHz									
5230	65.56	PK	H	31.81	5.26	0.00	102.63	N/A	N/A
5230	55.76	AV	H	31.81	5.26	0.00	92.83	N/A	N/A
5230	71.44	PK	V	31.81	5.26	0.00	108.51	N/A	N/A
5230	61.19	AV	V	31.81	5.26	0.00	98.26	N/A	N/A
5350	25.72	PK	V	32.03	5.37	0.00	63.12	74	10.88
5350	14.83	AV	V	32.03	5.37	0.00	52.23	54	1.77
10460	30.88	PK	V	37.39	7.83	26.36	49.74	74	24.26
10460	20.07	AV	V	37.39	7.83	26.36	38.93	54	15.07
15690	32.35	PK	V	39.44	10.24	25.30	56.73	74	17.27
15690	21.19	AV	V	39.44	10.24	25.30	45.57	54	8.43
1495	39.79	PK	V	24.09	2.66	26.33	40.21	74	33.79
1495	28.55	AV	V	24.09	2.66	26.33	28.97	54	25.03
2485	43.60	PK	V	23.25	2.99	26.89	42.95	74	31.05
2485	39.01	AV	V	23.25	2.99	26.89	38.36	54	15.64
500.45	42.76	QP	V	18.10	1.61	28.82	33.65	46.00	12.35

802.11n ac80 mode(chain 0 was the worst):

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5210 MHz									
5210	60.30	PK	H	31.78	5.24	0.00	97.32	N/A	N/A
5210	49.40	AV	H	31.78	5.24	0.00	86.42	N/A	N/A
5210	66.53	PK	V	31.78	5.24	0.00	103.55	N/A	N/A
5210	55.93	AV	V	31.78	5.24	0.00	92.95	N/A	N/A
5150	27.84	PK	V	31.67	5.18	0.00	64.69	74	9.31
5150	15.95	AV	V	31.67	5.18	0.00	52.8	54	1.2
5350	51.97	PK	V	32.03	5.37	26.69	62.68	74	11.32
5350	41.66	AV	V	32.03	5.37	26.69	52.37	54	1.63
10420	31.02	PK	V	37.38	7.80	26.36	49.84	74	24.16
10420	20.83	AV	V	37.38	7.80	26.36	39.65	54	14.35
15630	33.65	PK	V	39.43	10.23	25.31	58	74	16
15630	23.58	AV	V	39.43	10.23	25.31	47.93	54	6.07
2485	44.33	PK	V	23.25	2.99	26.89	43.68	74	30.32
2485	38.25	AV	V	23.25	2.99	26.89	37.6	54	16.4
500.45	42.93	QP	V	18.10	1.61	28.82	33.82	46.00	12.18

5250MHz-5350MHz:
802.11a Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5260 MHz									
5260	65.94	PK	H	31.87	5.28	0.00	103.09	N/A	N/A
5260	54.38	AV	H	31.87	5.28	0.00	91.53	N/A	N/A
5260	74.87	PK	V	31.87	5.28	0.00	112.02	N/A	N/A
5260	61.92	AV	V	31.87	5.28	0.00	99.07	N/A	N/A
5150	26.18	PK	V	31.67	5.18	0.00	63.03	74.00	10.97
5150	15.57	AV	V	31.67	5.18	0.00	52.42	54.00	1.58
10520	30.21	PK	V	37.41	7.86	26.34	49.14	74.00	24.86
10520	19.54	AV	V	37.41	7.86	26.34	38.47	54.00	15.53
15780	34.49	PK	V	39.46	10.25	25.30	58.9	74.00	15.1
15780	21.82	AV	V	39.46	10.25	25.30	46.23	54.00	7.77
6909	37.65	PK	V	34.14	6.08	26.31	51.56	74.00	22.44
6909	26.97	AV	V	34.14	6.08	26.31	40.88	54.00	13.12
2485	41.31	PK	V	23.25	2.99	26.89	40.66	74.00	33.34
2485	34.59	AV	V	23.25	2.99	26.89	33.94	54.00	20.06
500.45	42.11	QP	V	18.10	1.61	28.82	33.00	46.00	13.00
Middle Channel:5280 MHz									
5280	66.46	PK	H	31.90	5.30	0.00	103.66	N/A	N/A
5280	54.18	AV	H	31.90	5.30	0.00	91.38	N/A	N/A
5280	74.59	PK	V	31.90	5.30	0.00	111.79	N/A	N/A
5280	62.98	AV	V	31.90	5.30	0.00	100.18	N/A	N/A
10560	32.60	PK	V	37.42	7.89	26.32	51.59	74.00	22.41
10560	19.49	AV	V	37.42	7.89	26.32	38.48	54.00	15.52
15840	31.21	PK	V	39.47	10.26	25.29	55.65	74.00	18.35
15840	21.05	AV	V	39.47	10.26	25.29	45.49	54.00	8.51
6933	36.96	PK	V	34.18	6.08	26.30	50.92	74.00	23.08
6933	27.21	AV	V	34.18	6.08	26.30	41.17	54.00	12.83
2485	41.35	PK	V	23.25	2.99	26.89	40.7	74.00	33.3
2485	35.42	AV	V	23.25	2.99	26.89	34.77	54.00	19.23
500.45	40.91	QP	V	18.10	1.61	28.82	31.80	46.00	14.20
High Channel:5320 MHz									
5320	67.56	PK	H	31.98	5.34	0.00	104.88	N/A	N/A
5320	57.44	AV	H	31.98	5.34	0.00	94.76	N/A	N/A
5320	74.18	PK	V	31.98	5.34	0.00	111.5	N/A	N/A
5320	63.43	AV	V	31.98	5.34	0.00	100.75	N/A	N/A
5350	26.63	PK	V	32.03	5.37	0.00	64.03	74.00	9.97
5350	14.96	AV	V	32.03	5.37	0.00	52.36	54.00	1.64
10640	29.10	PK	V	37.46	7.95	26.27	48.24	74.00	25.76
10640	19.90	AV	V	37.46	7.95	26.27	39.04	54.00	14.96
15960	31.30	PK	V	39.49	10.27	25.28	55.78	74.00	18.22
15960	21.73	AV	V	39.49	10.27	25.28	46.21	54.00	7.79
7024	37.39	PK	V	34.35	6.08	26.27	51.55	74.00	22.45
7024	26.52	AV	V	34.35	6.08	26.27	40.68	54.00	13.32
2485	41.26	PK	V	23.25	2.99	26.89	40.61	74.00	33.39
2485	34.70	AV	V	23.25	2.99	26.89	34.05	54.00	19.95
500.45	41.48	QP	V	18.10	1.61	28.82	32.37	46.00	13.63

802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5260 MHz									
5260	65.26	PK	H	31.87	5.28	0.00	102.41	N/A	N/A
5260	53.27	AV	H	31.87	5.28	0.00	90.42	N/A	N/A
5260	72.78	PK	V	31.87	5.28	0.00	109.93	N/A	N/A
5260	61.45	AV	V	31.87	5.28	0.00	98.6	N/A	N/A
5150	26.79	PK	V	31.67	5.18	0.00	63.64	74	10.36
5150	15.48	AV	V	31.67	5.18	0.00	52.33	54	1.67
10520	29.96	PK	V	37.41	7.86	26.34	48.89	74	25.11
10520	19.50	AV	V	37.41	7.86	26.34	38.43	54	15.57
15780	32.02	PK	V	39.46	10.25	25.30	56.43	74	17.57
15780	21.46	AV	V	39.46	10.25	25.30	45.87	54	8.13
7015	37.24	PK	V	34.33	6.08	26.27	51.38	74	22.62
7015	26.68	AV	V	34.33	6.08	26.27	40.82	54	13.18
2845	42.42	PK	V	23.89	3.29	26.56	43.04	74	30.96
2845	36.91	AV	V	23.89	3.29	26.56	37.53	54	16.47
500.45	41.55	QP	V	18.10	1.61	28.82	32.44	46.00	13.56
Middle Channel:5280 MHz									
5280	65.81	PK	H	31.90	5.30	0.00	103.01	N/A	N/A
5280	64.10	AV	H	31.90	5.30	0.00	101.3	N/A	N/A
5280	74.40	PK	V	31.90	5.30	0.00	111.6	N/A	N/A
5280	62.43	AV	V	31.90	5.30	0.00	99.63	N/A	N/A
10560	29.91	PK	V	37.42	7.89	26.32	48.9	74	25.1
10560	19.63	AV	V	37.42	7.89	26.32	38.62	54	15.38
15840	30.80	PK	V	39.47	10.26	25.29	55.24	74	18.76
15840	22.27	AV	V	39.47	10.26	25.29	46.71	54	7.29
7045	37.50	PK	V	34.39	6.09	26.28	51.7	74	22.3
7045	27.45	AV	V	34.39	6.09	26.28	41.65	54	12.35
2485	40.60	PK	V	23.25	2.99	26.89	39.95	74	34.05
2485	35.65	AV	V	23.25	2.99	26.89	35	54	19
500.45	40.02	QP	V	18.10	1.61	28.82	30.91	46.00	15.09
High Channel:5320 MHz									
5320	66.05	PK	H	31.98	5.34	0.00	103.37	N/A	N/A
5320	55.44	AV	H	31.98	5.34	0.00	92.76	N/A	N/A
5320	75.66	PK	V	31.98	5.34	0.00	112.98	N/A	N/A
5320	64.33	AV	V	31.98	5.34	0.00	101.65	N/A	N/A
5350	27.84	PK	V	32.03	5.37	0.00	65.24	74	8.76
5350	14.99	AV	V	32.03	5.37	0.00	52.39	54	1.61
10640	28.60	PK	V	37.46	7.95	26.27	47.74	74	26.26
10640	19.52	AV	V	37.46	7.95	26.27	38.66	54	15.34
15960	31.20	PK	V	39.49	10.27	25.28	55.68	74	18.32
15960	21.34	AV	V	39.49	10.27	25.28	45.82	54	8.18
7090	37.50	PK	V	34.48	6.11	26.30	51.79	74	22.21
7090	27.58	AV	V	34.48	6.11	26.30	41.87	54	12.13
2485	41.15	PK	V	23.25	2.99	26.89	40.5	74	33.5
2485	35.19	AV	V	23.25	2.99	26.89	34.54	54	19.46
500.45	40.61	QP	V	18.10	1.61	28.82	31.50	46.00	14.50

802.11n ht40 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5270 MHz									
5270	64.42	PK	H	31.89	5.29	0.00	101.6	N/A	N/A
5270	53.35	AV	H	31.89	5.29	0.00	90.53	N/A	N/A
5270	74.28	PK	V	31.89	5.29	0.00	111.46	N/A	N/A
5270	63.08	AV	V	31.89	5.29	0.00	100.26	N/A	N/A
5150	26.15	PK	V	31.67	5.18	0.00	63	74	11
5150	15.02	AV	V	31.67	5.18	0.00	51.87	54	2.13
10540	29.27	PK	V	37.42	7.88	26.33	48.24	74	25.76
10540	19.83	AV	V	37.42	7.88	26.33	38.8	54	15.2
15810	31.32	PK	V	39.46	10.25	25.30	55.73	74	18.27
15810	21.64	AV	V	39.46	10.25	25.30	46.05	54	7.95
1600	35.68	PK	V	24.26	2.75	26.43	36.26	74	37.74
1600	25.00	AV	V	24.26	2.75	26.43	25.58	54	28.42
2485	40.90	PK	V	23.25	2.99	26.89	40.25	74	33.75
2485	34.94	AV	V	23.25	2.99	26.89	34.29	54	19.71
500.45	40.7	QP	V	18.10	1.61	28.82	31.59	46.00	15.41
High Channel:5310 MHz									
5310	64.28	PK	H	31.96	5.33	0.00	101.57	N/A	N/A
5310	51.60	AV	H	31.96	5.33	0.00	88.89	N/A	N/A
5310	73.07	PK	V	31.96	5.33	0.00	110.36	N/A	N/A
5310	60.38	AV	V	31.96	5.33	0.00	97.67	N/A	N/A
5350	33.16	PK	V	32.03	5.37	0.00	70.56	74	3.44
5350	14.92	AV	V	32.03	5.37	0.00	52.32	54	1.68
10620	29.18	PK	V	37.45	7.93	26.28	48.28	74	25.72
10620	18.57	AV	V	37.45	7.93	26.28	37.67	54	16.33
15930	31.57	PK	V	39.49	10.27	25.29	56.04	74	17.96
15930	19.52	AV	V	39.49	10.27	25.29	43.99	54	10.01
1600	34.50	PK	V	24.26	2.75	26.43	35.08	74	38.92
1600	23.85	AV	V	24.26	2.75	26.43	24.43	54	29.57
2485	37.80	PK	V	23.25	2.99	26.89	37.15	74	36.85
2485	32.48	AV	V	23.25	2.99	26.89	31.83	54	22.17
500.45	40.46	QP	V	18.10	1.61	28.82	31.35	46.00	15.65

802.11n ac80 mode

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5290 MHz									
5290	61.28	PK	H	31.92	5.31	0.00	98.51	N/A	N/A
5290	51.41	AV	H	31.92	5.31	0.00	88.64	N/A	N/A
5290	70.45	PK	V	31.92	5.31	0.00	107.68	N/A	N/A
5290	55.80	AV	V	31.92	5.31	0.00	93.03	N/A	N/A
5150	27.15	PK	V	31.67	5.18	0.00	64	74	10
5150	14.47	AV	V	31.67	5.18	0.00	51.32	54	2.68
5350	31.49	PK	V	32.03	5.37	0.00	68.89	74	5.11
5350	15.74	AV	V	32.03	5.37	0.00	53.14	54	0.86
10580	30.61	PK	V	37.43	7.91	26.30	49.65	74	24.35
10580	19.69	AV	V	37.43	7.91	26.30	38.73	54	15.27
15870	32.34	PK	V	39.47	10.26	25.29	56.78	74	17.22
15870	21.91	AV	V	39.47	10.26	25.29	46.35	54	7.65
2845	41.86	PK	V	23.89	3.29	26.56	42.48	74	31.52
2845	35.79	AV	V	23.89	3.29	26.56	36.41	54	17.59
500.45	42	QP	V	18.10	1.61	28.82	32.89	46.00	13.11

5470MHz-5725MHz:
802.11a Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5500 MHz									
5500	66.39	PK	H	32.30	5.52	0.00	104.21	N/A	N/A
5500	54.34	AV	H	32.30	5.52	0.00	92.16	N/A	N/A
5500	73.25	PK	V	32.30	5.52	0.00	111.07	N/A	N/A
5500	61.51	AV	V	32.30	5.52	0.00	99.33	N/A	N/A
5470	27.41	PK	V	32.25	5.49	0.00	65.15	74	8.85
5470	15.04	AV	V	32.25	5.49	0.00	52.78	54	1.22
11000	32.22	PK	V	37.60	8.20	26.06	51.96	74	22.04
11000	21.13	AV	V	37.60	8.20	26.06	40.87	54	13.13
16500	33.25	PK	V	40.30	10.44	25.48	58.51	74	15.49
16500	23.46	AV	V	40.30	10.44	25.48	48.72	54	5.28
2485	45.13	PK	V	23.25	2.99	26.89	44.48	74	29.52
2485	33.54	AV	V	23.25	2.99	26.89	32.89	54	21.11
4885	36.99	PK	V	31.03	5.09	26.87	46.24	74	27.76
4885	26.79	AV	V	31.03	5.09	26.87	36.04	54	17.96
500.45	41.62	QP	V	18.10	1.61	28.82	32.51	46.00	13.49
Middle Channel:5580 MHz									
5580	66.24	PK	H	32.40	5.59	0.00	104.23	N/A	N/A
5580	54.12	AV	H	32.40	5.59	0.00	92.11	N/A	N/A
5580	73.41	PK	V	32.40	5.59	0.00	111.4	N/A	N/A
5580	61.66	AV	V	32.40	5.59	0.00	99.65	N/A	N/A
11160	32.48	PK	V	37.73	8.21	26.05	52.37	74	21.63
11160	21.39	AV	V	37.73	8.21	26.05	41.28	54	12.72
16740	34.42	PK	V	41.07	10.44	25.57	60.36	74	13.64
16740	24.63	AV	V	41.07	10.44	25.57	50.57	54	3.43
2485	45.13	PK	V	23.25	2.99	26.89	44.48	74	29.52
2485	33.54	AV	V	23.25	2.99	26.89	32.89	54	21.11
4885	36.99	PK	V	31.03	5.09	26.87	46.24	74	27.76
4885	26.79	AV	V	31.03	5.09	26.87	36.04	54	17.96
500.45	41.45	QP	V	18.10	1.61	28.82	32.34	46.00	13.66
High Channel:5700 MHz									
5700	67.12	PK	H	32.54	5.70	0.00	105.36	N/A	N/A
5700	54.61	AV	H	32.54	5.70	0.00	92.85	N/A	N/A
5700	73.01	PK	V	32.54	5.70	0.00	111.25	N/A	N/A
5700	61.38	AV	V	32.54	5.70	0.00	99.62	N/A	N/A
5725	25.91	PK	V	32.57	5.72	0.00	64.2	74	9.8
5725	14.62	AV	V	32.57	5.72	0.00	52.91	54	1.09
11400	32.74	PK	V	37.92	8.22	26.03	52.85	74	21.15
11400	22.71	AV	V	37.92	8.22	26.03	42.82	54	11.18
17100	33.92	PK	V	42.36	10.60	25.80	61.08	74	12.92
17100	22.94	AV	V	42.36	10.60	25.80	50.1	54	3.9
2485	44.23	PK	V	23.25	2.99	26.89	43.58	74	30.42
2485	33.33	AV	V	23.25	2.99	26.89	32.68	54	21.32
3225	41.78	PK	V	25.46	3.77	26.49	44.52	74	29.48
3225	31.10	AV	V	25.46	3.77	26.49	33.84	54	20.16
500.45	41.39	QP	V	18.10	1.61	28.82	32.28	46.00	13.72

802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5500 MHz									
5500	65.60	PK	H	32.30	5.52	0.00	103.42	N/A	N/A
5500	53.34	AV	H	32.30	5.52	0.00	91.16	N/A	N/A
5500	72.58	PK	V	32.30	5.52	0.00	110.4	N/A	N/A
5500	60.17	AV	V	32.30	5.52	0.00	97.99	N/A	N/A
5470	26.81	PK	V	32.25	5.49	0.00	64.55	74	9.45
5470	15.18	AV	V	32.25	5.49	0.00	52.92	54	1.08
11000	32.06	PK	V	37.60	8.20	26.06	51.8	74	22.2
11000	21.39	AV	V	37.60	8.20	26.06	41.13	54	12.87
16500	32.94	PK	V	40.30	10.44	25.48	58.2	74	15.8
16500	22.62	AV	V	40.30	10.44	25.48	47.88	54	6.12
2485	45.14	PK	V	23.25	2.99	26.89	44.49	74	29.51
2485	33.36	AV	V	23.25	2.99	26.89	32.71	54	21.29
1536	35.57	PK	V	24.16	2.70	26.37	36.06	74	37.94
1536	25.68	AV	V	24.16	2.70	26.37	26.17	54	27.83
500.45	41.86	QP	V	18.10	1.61	28.82	32.75	46.00	13.25
Middle Channel:5600 MHz									
5600	66.23	PK	H	32.42	5.61	0.00	104.26	N/A	N/A
5600	54.09	AV	H	32.42	5.61	0.00	92.12	N/A	N/A
5600	73.11	PK	V	32.42	5.61	0.00	111.14	N/A	N/A
5600	59.83	AV	V	32.42	5.61	0.00	97.86	N/A	N/A
11200	5.91	PK	V	37.76	8.21	0.00	51.88	74	22.12
11200	-4.55	AV	V	37.76	8.21	0.00	41.42	54	12.58
16800	34.34	PK	V	41.26	10.43	25.59	60.44	74	13.56
16800	24.27	AV	V	41.26	10.43	25.59	50.37	54	3.63
2485	45.00	PK	V	23.25	2.99	26.89	44.35	74	29.65
2485	32.98	AV	V	23.25	2.99	26.89	32.33	54	21.67
1472	36.63	PK	V	24.03	2.63	26.36	36.93	74	37.07
1472	26.30	AV	V	24.03	2.63	26.36	26.6	54	27.4
500.45	41.62	QP	V	18.10	1.61	28.82	32.51	46.00	13.49
Middle Channel:5700 MHz									
5700	65.74	PK	H	32.54	5.70	0.00	103.98	N/A	N/A
5700	53.30	AV	H	32.54	5.70	0.00	91.54	N/A	N/A
5700	72.87	PK	V	32.54	5.70	0.00	111.11	N/A	N/A
5700	59.63	AV	V	32.54	5.70	0.00	97.87	N/A	N/A
5725	26.25	PK	V	32.57	5.72	0.00	64.54	74	9.46
5725	14.88	AV	V	32.57	5.72	0.00	53.17	54	0.83
11400	32.62	PK	V	37.92	8.22	26.03	52.73	74	21.27
11400	22.19	AV	V	37.92	8.22	26.03	42.3	54	11.7
17100	34.17	PK	V	42.36	10.60	25.80	61.33	74	12.67
17100	23.66	AV	V	42.36	10.60	25.80	50.82	54	3.18
2485	44.88	PK	V	23.25	2.99	26.89	44.23	74	29.77
2485	33.07	AV	V	23.25	2.99	26.89	32.42	54	21.58
1582	35.53	PK	V	24.23	2.73	26.41	36.08	74	37.92
1582	25.40	AV	V	24.23	2.73	26.41	25.95	54	28.05
500.45	41.53	QP	V	18.10	1.61	28.82	32.42	46.00	13.58

802.11n ht40 Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5510 MHz									
5510	60.96	PK	H	32.31	5.53	0.00	98.8	N/A	N/A
5510	50.09	AV	H	32.31	5.53	0.00	87.93	N/A	N/A
5510	70.01	PK	V	32.31	5.53	0.00	107.85	N/A	N/A
5510	59.07	AV	V	32.31	5.53	0.00	96.91	N/A	N/A
5470	25.68	PK	V	32.25	5.49	0.00	63.42	74	10.58
5470	15.05	AV	V	32.25	5.49	0.00	52.79	54	1.21
11020	32.31	PK	V	37.62	8.20	26.06	52.07	74	21.93
11020	21.40	AV	V	37.62	8.20	26.06	41.16	54	12.84
16530	33.55	PK	V	40.40	10.44	25.49	58.9	74	15.1
16530	22.99	AV	V	40.40	10.44	25.49	48.34	54	5.66
2485	44.64	PK	V	23.25	2.99	26.89	43.99	74	30.01
2485	33.88	AV	V	23.25	2.99	26.89	33.23	54	20.77
1495	36.04	PK	V	24.09	2.66	26.33	36.46	74	37.54
1495	26.02	AV	V	24.09	2.66	26.33	26.44	54	27.56
500.45	42.39	QP	V	18.10	1.61	28.82	33.28	46.00	12.72
Middle Channel:5590 MHz									
5590	60.61	PK	H	32.41	5.60	0.00	98.62	N/A	N/A
5590	50.58	AV	H	32.41	5.60	0.00	88.59	N/A	N/A
5590	70.38	PK	V	32.41	5.60	0.00	108.39	N/A	N/A
5590	58.87	AV	V	32.41	5.60	0.00	96.88	N/A	N/A
5725	26.22	PK	V	32.57	5.72	0.00	64.51	74	9.49
5725	14.41	AV	V	32.57	5.72	0.00	52.7	54	1.3
11180	32.24	PK	V	37.74	8.21	26.05	52.14	74	21.86
11180	21.85	AV	V	37.74	8.21	26.05	41.75	54	12.25
16770	34.92	PK	V	41.16	10.43	25.58	60.93	74	13.07
16770	23.90	AV	V	41.16	10.43	25.58	49.91	54	4.09
2485	44.93	PK	V	23.25	2.99	26.89	44.28	74	29.72
2485	33.34	AV	V	23.25	2.99	26.89	32.69	54	21.31
3421	40.21	PK	V	26.56	4.06	26.56	44.27	74	29.73
3421	29.12	AV	V	26.56	4.06	26.56	33.18	54	20.82
500.45	41.19	QP	V	18.10	1.61	28.82	32.08	46.00	13.92
Middle Channel:5670 MHz									
5670	60.25	PK	H	32.50	5.67	0.00	98.42	N/A	N/A
5670	49.48	AV	H	32.50	5.67	0.00	87.65	N/A	N/A
5670	69.37	PK	V	32.50	5.67	0.00	107.54	N/A	N/A
5670	57.85	AV	V	32.50	5.67	0.00	96.02	N/A	N/A
5725	25.19	PK	V	32.57	5.72	0.00	63.48	74	10.52
5725	14.97	AV	V	32.57	5.72	0.00	53.26	54	0.74
11340	32.56	PK	V	37.87	8.21	26.03	52.61	74	21.39
11340	22.17	AV	V	37.87	8.21	26.03	42.22	54	11.78
17010	34.77	PK	V	41.95	10.45	25.67	61.5	74	12.5
17010	23.75	AV	V	41.95	10.45	25.67	50.48	54	3.52
2485	44.93	PK	V	23.25	2.99	26.89	44.28	74	29.72
2485	33.34	AV	V	23.25	2.99	26.89	32.69	54	21.31
3421	40.21	PK	V	26.56	4.06	26.56	44.27	74	29.73
3421	29.12	AV	V	26.56	4.06	26.56	33.18	54	20.82
500.45	41.76	QP	V	18.10	1.61	28.82	32.65	46.00	13.35

802.11n ac80 mode

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5530 MHz									
5530	59.94	PK	H	32.34	5.55	0.00	97.83	N/A	N/A
5530	47.20	AV	H	32.34	5.55	0.00	85.09	N/A	N/A
5530	66.55	PK	V	32.34	5.55	0.00	104.44	N/A	N/A
5530	53.52	AV	V	32.34	5.55	0.00	91.41	N/A	N/A
5470	29.32	PK	V	32.25	5.49	0.00	67.06	74	6.94
5470	15.05	AV	V	32.25	5.49	0.00	52.79	54	1.21
11060	31.81	PK	V	37.65	8.20	26.06	51.6	74	22.4
11060	21.66	AV	V	37.65	8.20	26.06	41.45	54	12.55
16590	34.04	PK	V	40.59	10.44	25.51	59.56	74	14.44
16590	23.60	AV	V	40.59	10.44	25.51	49.12	54	4.88
2485	44.43	PK	V	23.25	2.99	26.89	43.78	74	30.22
2485	32.91	AV	V	23.25	2.99	26.89	32.26	54	21.74
500.45	40.3	QP	V	18.10	1.61	28.82	31.19	46.00	14.81
Middle Channel:5610 MHz									
5610	60.08	PK	H	32.43	5.62	0.00	98.13	N/A	N/A
5610	47.07	AV	H	32.43	5.62	0.00	85.12	N/A	N/A
5610	66.94	PK	V	32.43	5.62	0.00	104.99	N/A	N/A
5610	53.52	AV	V	32.43	5.62	0.00	91.57	N/A	N/A
5725	25.54	PK	V	32.57	5.72	0.00	63.83	74	10.17
5725	13.97	AV	V	32.57	5.72	0.00	52.26	54	1.74
11220	32.06	PK	V	37.78	8.21	26.04	52.01	74	21.99
11220	21.91	AV	V	37.78	8.21	26.04	41.86	54	12.14
16830	34.75	PK	V	41.36	10.43	25.60	60.94	74	13.06
16830	24.31	AV	V	41.36	10.43	25.60	50.5	54	3.5
2485	44.43	PK	V	23.25	2.99	26.89	43.78	74	30.22
2485	32.91	AV	V	23.25	2.99	26.89	32.26	54	21.74
500.45	40.89	QP	V	18.10	1.61	28.82	31.78	46.00	14.22

MIMO mode (Chain 0 & Chain 1) without beamforming:

5150MHz-5250MHz

802.11a mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	75.51	PK	H	31.83	5.27	0.00	112.61	N/A	N/A
5240	64.71	AV	H	31.83	5.27	0.00	101.81	N/A	N/A
5240	76.94	PK	V	31.83	5.27	0.00	114.04	N/A	N/A
5240	66.38	AV	V	31.83	5.27	0.00	103.48	N/A	N/A
5350	26.86	PK	V	32.03	5.37	0.00	64.26	74	9.74
5350	16.05	AV	V	32.03	5.37	0.00	53.45	54	0.55
10480	30.47	PK	V	37.40	7.84	26.35	49.36	74	24.64
10480	19.87	AV	V	37.40	7.84	26.35	38.76	54	15.24
15720	32.02	PK	V	39.44	10.24	25.30	56.4	74	17.6
15720	21.33	AV	V	39.44	10.24	25.30	45.71	54	8.29
1495	39.44	PK	V	24.09	2.66	26.33	39.86	74	34.14
1495	28.08	AV	V	24.09	2.66	26.33	28.5	54	25.5
2485	44.44	PK	V	23.25	2.99	26.89	43.79	74	30.21
2485	37.92	AV	V	23.25	2.99	26.89	37.27	54	16.73
500.45	41.28	QP	V	18.10	1.61	28.82	32.17	46.00	13.83

802.11n ht20 mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	76.08	PK	H	31.83	5.27	0.00	113.18	N/A	N/A
5240	64.59	AV	H	31.83	5.27	0.00	101.69	N/A	N/A
5240	77.41	PK	V	31.83	5.27	0.00	114.51	N/A	N/A
5240	66.13	AV	V	31.83	5.27	0.00	103.23	N/A	N/A
5350	27.23	PK	V	32.03	5.37	0.00	64.63	74	9.37
5350	16.05	AV	V	32.03	5.37	0.00	53.45	54	0.55
10480	30.74	PK	V	37.40	7.84	26.35	49.63	74	24.37
10480	18.89	AV	V	37.40	7.84	26.35	37.78	54	16.22
15720	32.54	PK	V	39.44	10.24	25.30	56.92	74	17.08
15720	20.03	AV	V	39.44	10.24	25.30	44.41	54	9.59
1510	39.34	PK	V	24.12	2.68	26.34	39.8	74	34.2
1510	27.85	AV	V	24.12	2.68	26.34	28.31	54	25.69
2485	45.35	PK	V	23.25	2.99	26.89	44.7	74	29.3
2485	38.80	AV	V	23.25	2.99	26.89	38.15	54	15.85
500.45	40.84	QP	V	18.10	1.61	28.82	31.73	46.00	14.27

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
High Channel:5230 MHz									
5230	74.83	PK	H	31.81	5.26	0.00	111.9	N/A	N/A
5230	63.96	AV	H	31.81	5.26	0.00	101.03	N/A	N/A
5230	75.03	PK	V	31.81	5.26	0.00	112.1	N/A	N/A
5230	64.02	AV	V	31.81	5.26	0.00	101.09	N/A	N/A
5350	28.79	PK	V	32.03	5.37	0.00	66.19	74	7.81
5350	15.87	AV	V	32.03	5.37	0.00	53.27	54	0.73
10460	31.53	PK	V	37.39	7.83	26.36	50.39	74	23.61
10460	19.71	AV	V	37.39	7.83	26.36	38.57	54	15.43
15690	32.33	PK	V	39.44	10.24	25.30	56.71	74	17.29
15690	20.86	AV	V	39.44	10.24	25.30	45.24	54	8.76
1495	37.92	PK	V	24.09	2.66	26.33	38.34	74	35.66
1495	26.03	AV	V	24.09	2.66	26.33	26.45	54	27.55
2485	43.83	PK	V	23.25	2.99	26.89	43.18	74	30.82
2485	37.97	AV	V	23.25	2.99	26.89	37.32	54	16.68
500.45	41.41	QP	V	18.10	1.61	28.82	32.30	46.00	13.70

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5210 MHz									
5210	67.15	PK	H	31.78	5.24	0.00	104.17	N/A	N/A
5210	56.80	AV	H	31.78	5.24	0.00	93.82	N/A	N/A
5210	68.41	PK	V	31.78	5.24	0.00	105.43	N/A	N/A
5210	58.24	AV	V	31.78	5.24	0.00	95.26	N/A	N/A
5150	28.66	PK	V	31.67	5.18	0.00	65.51	74	8.49
5150	15.81	AV	V	31.67	5.18	0.00	52.66	54	1.34
5350	28.37	PK	V	32.03	5.37	0.00	65.77	74	8.23
5350	15.90	AV	V	32.03	5.37	0.00	53.3	54	0.7
10420	31.07	PK	V	37.38	7.80	26.36	49.89	74	24.11
10420	19.59	AV	V	37.38	7.80	26.36	38.41	54	15.59
15630	32.06	PK	V	39.43	10.23	25.31	56.41	74	17.59
15630	20.77	AV	V	39.43	10.23	25.31	45.12	54	8.88
2485	45.83	PK	V	23.25	2.99	26.89	45.18	74	28.82
2485	38.79	AV	V	23.25	2.99	26.89	38.14	54	15.86
500.45	41.49	QP	V	18.10	1.61	28.82	32.38	46.00	13.62

5250MHz-5350MHz
802.11a mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5260 MHz									
5260	71.38	PK	H	31.87	5.28	0.00	108.53	N/A	N/A
5260	60.21	AV	H	31.87	5.28	0.00	97.36	N/A	N/A
5260	72.95	PK	V	31.87	5.28	0.00	110.1	N/A	N/A
5260	61.24	AV	V	31.87	5.28	0.00	98.39	N/A	N/A
5150	25.98	PK	V	31.67	5.18	0.00	62.83	74	11.17
5150	14.97	AV	V	31.67	5.18	0.00	51.82	54	2.18
10520	32.60	PK	V	37.41	7.86	26.34	51.53	74	22.47
10520	21.02	AV	V	37.41	7.86	26.34	39.95	54	14.05
15780	32.25	PK	V	39.46	10.25	25.30	56.66	74	17.34
15780	21.42	AV	V	39.46	10.25	25.30	45.83	54	8.17
6909	36.32	PK	V	34.14	6.08	26.31	50.23	74	23.77
6909	24.33	AV	V	34.14	6.08	26.31	38.24	54	15.76
2485	40.61	PK	V	23.25	2.99	26.89	39.96	74	34.04
2485	35.08	AV	V	23.25	2.99	26.89	34.43	54	19.57
500.45	40.74	QP	V	18.10	1.61	28.82	31.63	46.00	14.37
Middle Channel:5280 MHz									
5280	71.56	PK	H	31.90	5.30	0.00	108.76	N/A	N/A
5280	60.68	AV	H	31.90	5.30	0.00	97.88	N/A	N/A
5280	72.44	PK	V	31.90	5.30	0.00	109.64	N/A	N/A
5280	61.49	AV	V	31.90	5.30	0.00	98.69	N/A	N/A
10560	30.97	PK	V	37.42	7.89	26.32	49.96	74	24.04
10560	20.68	AV	V	37.42	7.89	26.32	39.67	54	14.33
15840	32.74	PK	V	39.47	10.26	25.29	57.18	74	16.82
15840	21.34	AV	V	39.47	10.26	25.29	45.78	54	8.22
6933	34.61	PK	V	34.18	6.08	26.30	48.57	74	25.43
6933	22.95	AV	V	34.18	6.08	26.30	36.91	54	17.09
2485	40.14	PK	V	23.25	2.99	26.89	39.49	74	34.51
2485	35.51	AV	V	23.25	2.99	26.89	34.86	54	19.14
500.45	42.28	QP	V	18.10	1.61	28.82	33.17	46.00	12.83
High Channel:5320 MHz									
5320	72.00	PK	H	31.98	5.34	0.00	109.32	N/A	N/A
5320	60.45	AV	H	31.98	5.34	0.00	97.77	N/A	N/A
5320	73.68	PK	V	31.98	5.34	0.00	111	N/A	N/A
5320	62.14	AV	V	31.98	5.34	0.00	99.46	N/A	N/A
5350	27.56	PK	V	32.03	5.37	0.00	64.96	74	9.04
5350	15.02	AV	V	32.03	5.37	0.00	52.42	54	1.58
10640	30.85	PK	V	37.46	7.95	26.27	49.99	74	24.01
10640	19.62	AV	V	37.46	7.95	26.27	38.76	54	15.24
15960	30.99	PK	V	39.49	10.27	25.28	55.47	74	18.53
15960	19.62	AV	V	39.49	10.27	25.28	44.1	54	9.9
7024	37.96	PK	V	34.35	6.08	26.27	52.12	74	21.88
7024	27.20	AV	V	34.35	6.08	26.27	41.36	54	12.64
2485	40.76	PK	V	23.25	2.99	26.89	40.11	74	33.89
2485	34.38	AV	V	23.25	2.99	26.89	33.73	54	20.27
500.45	41.9	QP	V	18.10	1.61	28.82	32.79	46.00	13.21

802.11n ht20 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5260 MHz									
5260	71.77	PK	H	31.87	5.28	0.00	108.92	N/A	N/A
5260	59.44	AV	H	31.87	5.28	0.00	96.59	N/A	N/A
5260	73.58	PK	V	31.87	5.28	0.00	110.73	N/A	N/A
5260	61.06	AV	V	31.87	5.28	0.00	98.21	N/A	N/A
5150	26.48	PK	V	31.67	5.18	0.00	63.33	74	10.67
5150	14.82	AV	V	31.67	5.18	0.00	51.67	54	2.33
10520	31.01	PK	V	37.41	7.86	26.34	49.94	74	24.06
10520	20.64	AV	V	37.41	7.86	26.34	39.57	54	14.43
15780	32.78	PK	V	39.46	10.25	25.30	57.19	74	16.81
15780	22.32	AV	V	39.46	10.25	25.30	46.73	54	7.27
7015	37.23	PK	V	34.33	6.08	26.27	51.37	74	22.63
7015	27.47	AV	V	34.33	6.08	26.27	41.61	54	12.39
2845	43.28	PK	V	23.89	3.29	26.56	43.9	74	30.1
2845	36.54	AV	V	23.89	3.29	26.56	37.16	54	16.84
500.45	41.73	QP	V	18.10	1.61	28.82	32.62	46.00	13.38
Middle Channel:5280 MHz									
5280	71.63	PK	H	31.90	5.30	0.00	108.83	N/A	N/A
5280	61.37	AV	H	31.90	5.30	0.00	98.57	N/A	N/A
5280	72.98	PK	V	31.90	5.30	0.00	110.18	N/A	N/A
5280	61.82	AV	V	31.90	5.30	0.00	99.02	N/A	N/A
10560	32.88	PK	V	37.42	7.89	26.32	51.87	74	22.13
10560	22.60	AV	V	37.42	7.89	26.32	41.59	54	12.41
15840	32.39	PK	V	39.47	10.26	25.29	56.83	74	17.17
15840	22.32	AV	V	39.47	10.26	25.29	46.76	54	7.24
7045	35.95	PK	V	34.39	6.09	26.28	50.15	74	23.85
7045	25.23	AV	V	34.39	6.09	26.28	39.43	54	14.57
2485	41.39	PK	V	23.25	2.99	26.89	40.74	74	33.26
2485	35.38	AV	V	23.25	2.99	26.89	34.73	54	19.27
500.45	41.67	QP	V	18.10	1.61	28.82	32.56	46.00	13.44
High Channel:5320 MHz									
5320	71.44	PK	H	31.98	5.34	0.00	108.76	N/A	N/A
5320	60.18	AV	H	31.98	5.34	0.00	97.5	N/A	N/A
5320	73.13	PK	V	31.98	5.34	0.00	110.45	N/A	N/A
5320	60.95	AV	V	31.98	5.34	0.00	98.27	N/A	N/A
5350	27.24	PK	V	32.03	5.37	0.00	64.64	74	9.36
5350	15.18	AV	V	32.03	5.37	0.00	52.58	54	1.42
10640	29.80	PK	V	37.46	7.95	26.27	48.94	74	25.06
10640	19.53	AV	V	37.46	7.95	26.27	38.67	54	15.33
15960	31.20	PK	V	39.49	10.27	25.28	55.68	74	18.32
15960	20.39	AV	V	39.49	10.27	25.28	44.87	54	9.13
7090	33.80	PK	V	34.48	6.11	26.30	48.09	74	25.91
7090	22.81	AV	V	34.48	6.11	26.30	37.1	54	16.9
2485	41.28	PK	V	23.25	2.99	26.89	40.63	74	33.37
2485	35.08	AV	V	23.25	2.99	26.89	34.43	54	19.57
500.45	42.14	QP	V	18.10	1.61	28.82	33.03	46.00	12.97

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5270 MHz									
5270	76.02	PK	H	31.89	5.29	0.00	113.2	N/A	N/A
5270	64.72	AV	H	31.89	5.29	0.00	101.9	N/A	N/A
5270	77.28	PK	V	31.89	5.29	0.00	114.46	N/A	N/A
5270	66.15	AV	V	31.89	5.29	0.00	103.33	N/A	N/A
5150	26.73	PK	V	31.67	5.18	0.00	63.58	74	10.42
5150	14.11	AV	V	31.67	5.18	0.00	50.96	54	3.04
10540	29.27	PK	V	37.42	7.88	26.33	48.24	74	25.76
10540	19.83	AV	V	37.42	7.88	26.33	38.8	54	15.2
15810	31.32	PK	V	39.46	10.25	25.30	55.73	74	18.27
15810	21.64	AV	V	39.46	10.25	25.30	46.05	54	7.95
1600	35.68	PK	V	24.26	2.75	26.43	36.26	74	37.74
1600	25.00	AV	V	24.26	2.75	26.43	25.58	54	28.42
2485	40.90	PK	V	23.25	2.99	26.89	40.25	74	33.75
2485	34.94	AV	V	23.25	2.99	26.89	34.29	54	19.71
500.45	41.9	QP	V	18.10	1.61	28.82	32.79	46.00	13.21
High Channel:5310 MHz									
5310	73.92	PK	H	31.96	5.33	0.00	111.21	N/A	N/A
5310	62.99	AV	H	31.96	5.33	0.00	100.28	N/A	N/A
5310	75.08	PK	V	31.96	5.33	0.00	112.37	N/A	N/A
5310	64.63	AV	V	31.96	5.33	0.00	101.92	N/A	N/A
5350	29.58	PK	V	32.03	5.37	0.00	66.98	74	7.02
5350	15.60	AV	V	32.03	5.37	0.00	53	54	1
10620	29.18	PK	V	37.45	7.93	26.28	48.28	74	25.72
10620	18.57	AV	V	37.45	7.93	26.28	37.67	54	16.33
15930	31.57	PK	V	39.49	10.27	25.29	56.04	74	17.96
15930	19.52	AV	V	39.49	10.27	25.29	43.99	54	10.01
1600	34.50	PK	V	24.26	2.75	26.43	35.08	74	38.92
1600	23.85	AV	V	24.26	2.75	26.43	24.43	54	29.57
2485	37.80	PK	V	23.25	2.99	26.89	37.15	74	36.85
2485	32.48	AV	V	23.25	2.99	26.89	31.83	54	22.17
500.45	41.81	QP	V	18.10	1.61	28.82	32.70	46.00	13.30

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5290 MHz									
5290	61.28	PK	H	31.92	5.31	0.00	98.51	N/A	N/A
5290	51.41	AV	H	31.92	5.31	0.00	88.64	N/A	N/A
5290	69.95	PK	V	31.92	5.31	0.00	107.18	N/A	N/A
5290	57.53	AV	V	31.92	5.31	0.00	94.76	N/A	N/A
5150	26.43	PK	V	31.67	5.18	0.00	63.28	74	10.72
5150	14.27	AV	V	31.67	5.18	0.00	51.12	54	2.88
5350	26.96	PK	V	32.03	5.37	0.00	64.36	74	9.64
5350	15.25	AV	V	32.03	5.37	0.00	52.65	54	1.35
10580	30.61	PK	V	37.43	7.91	26.30	49.65	74	24.35
10580	19.69	AV	V	37.43	7.91	26.30	38.73	54	15.27
15870	32.34	PK	V	39.47	10.26	25.29	56.78	74	17.22
15870	21.91	AV	V	39.47	10.26	25.29	46.35	54	7.65
2845	41.86	PK	V	23.89	3.29	26.56	42.48	74	31.52
2845	35.79	AV	V	23.89	3.29	26.56	36.41	54	17.59
500.45	41.62	QP	V	18.10	1.61	28.82	32.51	46.00	13.49

5470MHz-5725MHz:
802.11a Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5500 MHz									
5500	70.80	PK	H	32.30	5.52	0.00	108.62	N/A	N/A
5500	59.60	AV	H	32.30	5.52	0.00	97.42	N/A	N/A
5500	70.02	PK	V	32.30	5.52	0.00	107.84	N/A	N/A
5500	58.08	AV	V	32.30	5.52	0.00	95.9	N/A	N/A
5470	26.42	PK	H	32.25	5.49	0.00	64.16	74	9.84
5470	14.93	AV	H	32.25	5.49	0.00	52.67	54	1.33
11000	31.60	PK	H	37.60	8.20	26.06	51.34	74	22.66
11000	21.26	AV	H	37.60	8.20	26.06	41	54	13
16500	33.82	PK	H	40.30	10.44	25.48	59.08	74	14.92
16500	23.42	AV	H	40.30	10.44	25.48	48.68	54	5.32
2485	44.17	PK	H	23.25	2.99	26.89	43.52	74	30.48
2485	33.88	AV	H	23.25	2.99	26.89	33.23	54	20.77
4885	36.96	PK	H	31.03	5.09	26.87	46.21	74	27.79
4885	26.88	AV	H	31.03	5.09	26.87	36.13	54	17.87
500.45	42.18	QP	V	18.10	1.61	28.82	33.07	46.00	12.93
Middle Channel:5580 MHz									
5580	72.44	PK	H	32.40	5.59	0.00	110.43	N/A	N/A
5580	59.56	AV	H	32.40	5.59	0.00	97.55	N/A	N/A
5580	69.76	PK	V	32.40	5.59	0.00	107.75	N/A	N/A
5580	57.79	AV	V	32.40	5.59	0.00	95.78	N/A	N/A
11160	31.94	PK	H	37.73	8.21	26.05	51.83	74	22.17
11160	21.68	AV	H	37.73	8.21	26.05	41.57	54	12.43
16740	34.92	PK	H	41.07	10.44	25.57	60.86	74	13.14
16740	24.38	AV	H	41.07	10.44	25.57	50.32	54	3.68
2485	44.82	PK	H	23.25	2.99	26.89	44.17	74	29.83
2485	32.97	AV	H	23.25	2.99	26.89	32.32	54	21.68
4945	37.32	PK	H	31.22	5.06	26.88	46.72	74	27.28
4945	27.19	AV	H	31.22	5.06	26.88	36.59	54	17.41
500.45	40.98	QP	V	18.10	1.61	28.82	31.87	46.00	14.13
High Channel:5700 MHz									
5700	70.98	PK	H	32.54	5.70	0.00	109.22	N/A	N/A
5700	59.67	AV	H	32.54	5.70	0.00	97.91	N/A	N/A
5700	70.11	PK	V	32.54	5.70	0.00	108.35	N/A	N/A
5700	57.74	AV	V	32.54	5.70	0.00	95.98	N/A	N/A
5725	25.89	PK	H	32.57	5.72	0.00	64.18	74	9.82
5725	14.24	AV	H	32.57	5.72	0.00	52.53	54	1.47
11400	33.22	PK	H	37.92	8.22	26.03	53.33	74	20.67
11400	22.24	AV	H	37.92	8.22	26.03	42.35	54	11.65
17100	33.98	PK	H	42.36	10.60	25.80	61.14	74	12.86
17100	23.25	AV	H	42.36	10.60	25.80	50.41	54	3.59
2485	45.13	PK	H	23.25	2.99	26.89	44.48	74	29.52
2485	33.73	AV	H	23.25	2.99	26.89	33.08	54	20.92
4915	36.88	PK	H	31.13	5.07	26.87	46.21	74	27.79
4915	26.51	AV	H	31.13	5.07	26.87	35.84	54	18.16
500.45	41.55	QP	V	18.10	1.61	28.82	32.44	46.00	13.56

802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5500 MHz									
5500	72.81	PK	H	32.30	5.52	0.00	110.63	N/A	N/A
5500	62.18	AV	H	32.30	5.52	0.00	100	N/A	N/A
5500	71.10	PK	V	32.30	5.52	0.00	108.92	N/A	N/A
5500	60.45	AV	V	32.30	5.52	0.00	98.27	N/A	N/A
5470	26.85	PK	H	32.25	5.49	0.00	64.59	74	9.41
5470	15.37	AV	H	32.25	5.49	0.00	53.11	54	0.89
11000	32.41	PK	H	37.60	8.20	26.06	52.15	74	21.85
11000	21.20	AV	H	37.60	8.20	26.06	40.94	54	13.06
16500	33.24	PK	H	40.30	10.44	25.48	58.5	74	15.5
16500	23.17	AV	H	40.30	10.44	25.48	48.43	54	5.57
2485	44.91	PK	H	23.25	2.99	26.89	44.26	74	29.74
2485	33.05	AV	H	23.25	2.99	26.89	32.4	54	21.6
1600	35.28	PK	H	24.26	2.75	26.43	35.86	74	38.14
1600	25.02	AV	H	24.26	2.75	26.43	25.6	54	28.4
500.45	41.62	QP	V	18.10	1.61	28.82	32.51	46.00	13.49
Middle Channel:5600 MHz									
5600	74.07	PK	H	32.42	5.61	0.00	112.1	N/A	N/A
5600	62.05	AV	H	32.42	5.61	0.00	100.08	N/A	N/A
5600	71.11	PK	V	32.42	5.61	0.00	109.14	N/A	N/A
5600	60.59	AV	V	32.42	5.61	0.00	98.62	N/A	N/A
11200	32.47	PK	H	37.76	8.21	26.04	52.4	74	21.6
11200	21.45	AV	H	37.76	8.21	26.04	41.38	54	12.62
16800	34.51	PK	H	41.26	10.43	25.59	60.61	74	13.39
16800	24.33	AV	H	41.26	10.43	25.59	50.43	54	3.57
2485	44.70	PK	H	23.25	2.99	26.89	44.05	74	29.95
2485	32.59	AV	H	23.25	2.99	26.89	31.94	54	22.06
1600	34.80	PK	H	24.26	2.75	26.43	35.38	74	38.62
1600	25.16	AV	H	24.26	2.75	26.43	25.74	54	28.26
500.45	40.09	QP	V	18.10	1.61	28.82	30.98	46.00	15.02
Middle Channel:5700 MHz									
5700	72.69	PK	H	32.54	5.70	0.00	110.93	N/A	N/A
5700	62.21	AV	H	32.54	5.70	0.00	100.45	N/A	N/A
5700	71.13	PK	V	32.54	5.70	0.00	109.37	N/A	N/A
5700	60.68	AV	V	32.54	5.70	0.00	98.92	N/A	N/A
5725	26.09	PK	H	32.57	5.72	0.00	64.38	74	9.62
5725	14.48	AV	H	32.57	5.72	0.00	52.77	54	1.23
11400	33.38	PK	H	37.92	8.22	26.03	53.49	74	20.51
11400	22.32	AV	H	37.92	8.22	26.03	42.43	54	11.57
17100	33.84	PK	H	42.36	10.60	25.80	61	74	13
17100	23.86	AV	H	42.36	10.60	25.80	51.02	54	2.98
2485	44.42	PK	H	23.25	2.99	26.89	43.77	74	30.23
2485	33.35	AV	H	23.25	2.99	26.89	32.7	54	21.3
4915	37.03	PK	H	31.13	5.07	26.87	46.36	74	27.64
4915	26.78	AV	H	31.13	5.07	26.87	36.11	54	17.89
500.45	40.68	QP	V	18.10	1.61	28.82	31.57	46.00	14.43

802.11n ht40 Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5510 MHz									
5510	71.81	PK	H	32.31	5.53	0.00	109.65	N/A	N/A
5510	61.16	AV	H	32.31	5.53	0.00	99	N/A	N/A
5510	70.42	PK	V	32.31	5.53	0.00	108.26	N/A	N/A
5510	60.09	AV	V	32.31	5.53	0.00	97.93	N/A	N/A
5470	27.20	PK	H	32.25	5.49	0.00	64.94	74	9.06
5470	15.04	AV	H	32.25	5.49	0.00	52.78	54	1.22
11020	31.72	PK	H	37.62	8.20	26.06	51.48	74	22.52
11020	21.86	AV	H	37.62	8.20	26.06	41.62	54	12.38
16530	33.95	PK	H	40.40	10.44	25.49	59.3	74	14.7
16530	23.00	AV	H	40.40	10.44	25.49	48.35	54	5.65
2485	44.20	PK	H	23.25	2.99	26.89	43.55	74	30.45
2485	32.98	AV	H	23.25	2.99	26.89	32.33	54	21.67
1495	36.53	PK	H	24.09	2.66	26.33	36.95	74	37.05
1495	25.26	AV	H	24.09	2.66	26.33	25.68	54	28.32
500.45	40.77	QP	V	18.10	1.61	28.82	31.66	46.00	14.34
Middle Channel:5590 MHz									
5590	71.38	PK	H	32.41	5.60	0.00	109.39	N/A	N/A
5590	61.44	AV	H	32.41	5.60	0.00	99.45	N/A	N/A
5590	70.86	PK	V	32.41	5.60	0.00	108.87	N/A	N/A
5590	60.34	AV	V	32.41	5.60	0.00	98.35	N/A	N/A
5725	25.60	PK	H	32.57	5.72	0.00	63.89	74	10.11
5725	13.81	AV	H	32.57	5.72	0.00	52.1	54	1.9
11180	31.52	PK	H	37.74	8.21	26.05	51.42	74	22.58
11180	22.20	AV	H	37.74	8.21	26.05	42.1	54	11.9
16770	34.94	PK	H	41.16	10.43	25.58	60.95	74	13.05
16770	24.19	AV	H	41.16	10.43	25.58	50.2	54	3.8
2485	44.34	PK	H	23.25	2.99	26.89	43.69	74	30.31
2485	32.59	AV	H	23.25	2.99	26.89	31.94	54	22.06
4915	37.36	PK	H	31.13	5.07	26.87	46.69	74	27.31
4915	26.33	AV	H	31.13	5.07	26.87	35.66	54	18.34
500.45	40.53	QP	V	18.10	1.61	28.82	31.42	46.00	14.58
Middle Channel:5670 MHz									
5670	71.43	PK	H	32.50	5.67	0.00	109.6	N/A	N/A
5670	61.01	AV	H	32.50	5.67	0.00	99.18	N/A	N/A
5670	70.26	PK	V	32.50	5.67	0.00	108.43	N/A	N/A
5670	59.60	AV	V	32.50	5.67	0.00	97.77	N/A	N/A
5725	25.60	PK	H	32.57	5.72	0.00	63.89	74	10.11
5725	13.81	AV	H	32.57	5.72	0.00	52.1	54	1.9
11340	32.29	PK	H	37.87	8.21	26.03	52.34	74	21.66
11340	22.67	AV	H	37.87	8.21	26.03	42.72	54	11.28
17010	34.66	PK	H	41.95	10.45	25.67	61.39	74	12.61
17010	23.65	AV	H	41.95	10.45	25.67	50.38	54	3.62
2485	44.08	PK	H	23.25	2.99	26.89	43.43	74	30.57
2485	32.93	AV	H	23.25	2.99	26.89	32.28	54	21.72
4035	37.85	PK	H	29.06	4.94	26.57	45.28	74	28.72
4035	26.81	AV	H	29.06	4.94	26.57	34.24	54	19.76
500.45	42.07	QP	V	18.10	1.61	28.82	32.96	46.00	13.04

802.11n ac80 mode

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5530 MHz									
5530	67.64	PK	H	32.34	5.55	0.00	105.53	N/A	N/A
5530	56.96	AV	H	32.34	5.55	0.00	94.85	N/A	N/A
5530	66.73	PK	V	32.34	5.55	0.00	104.62	N/A	N/A
5530	56.38	AV	V	32.34	5.55	0.00	94.27	N/A	N/A
5470	28.18	PK	H	32.25	5.49	0.00	65.92	74	8.08
5470	15.14	AV	H	32.25	5.49	0.00	52.88	54	1.12
11060	31.72	PK	H	37.65	8.20	26.06	51.51	74	22.49
11060	22.08	AV	H	37.65	8.20	26.06	41.87	54	12.13
16590	34.30	PK	H	40.59	10.44	25.51	59.82	74	14.18
16590	23.15	AV	H	40.59	10.44	25.51	48.67	54	5.33
2485	44.41	PK	H	23.25	2.99	26.89	43.76	74	30.24
2485	33.75	AV	H	23.25	2.99	26.89	33.1	54	20.9
500.45	41.52	QP	V	18.10	1.61	28.82	32.41	46.00	13.59
High Channel:5610 MHz									
5610	67.94	PK	H	32.43	5.62	0.00	105.99	N/A	N/A
5610	57.17	AV	H	32.43	5.62	0.00	95.22	N/A	N/A
5610	66.68	PK	V	32.43	5.62	0.00	104.73	N/A	N/A
5610	56.30	AV	V	32.43	5.62	0.00	94.35	N/A	N/A
5725	26.35	PK	H	32.57	5.72	0.00	64.64	74	9.36
5725	14.42	AV	H	32.57	5.72	0.00	52.71	54	1.29
11220	31.54	PK	H	37.78	8.21	26.04	51.49	74	22.51
11220	22.44	AV	H	37.78	8.21	26.04	42.39	54	11.61
16830	35.40	PK	H	41.36	10.43	25.60	61.59	74	12.41
16830	23.50	AV	H	41.36	10.43	25.60	49.69	54	4.31
2485	44.21	PK	H	23.25	2.99	26.89	43.56	74	30.44
2485	33.64	AV	H	23.25	2.99	26.89	32.99	54	21.01
500.45	41.46	QP	V	18.10	1.61	28.82	32.35	46.00	13.65

MIMO mode (Chain 0 & Chain 1 & Chain 2) without beamforming:

5150MHz-5250MHz

802.11a mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	79.42	PK	H	31.83	5.27	0.00	116.52	N/A	N/A
5240	68.48	AV	H	31.83	5.27	0.00	105.58	N/A	N/A
5240	76.09	PK	V	31.83	5.27	0.00	113.19	N/A	N/A
5240	64.71	AV	V	31.83	5.27	0.00	101.81	N/A	N/A
5350	29.22	PK	H	32.03	5.37	0.00	66.62	74	7.38
5350	15.97	AV	H	32.03	5.37	0.00	53.37	54	0.63
10480	30.91	PK	H	37.40	7.84	26.35	49.8	74	24.2
10480	20.36	AV	H	37.40	7.84	26.35	39.25	54	14.75
15720	32.05	PK	H	39.44	10.24	25.30	56.43	74	17.57
15720	21.51	AV	H	39.44	10.24	25.30	45.89	54	8.11
1495	40.04	PK	H	24.09	2.66	26.33	40.46	74	33.54
1495	28.15	AV	H	24.09	2.66	26.33	28.57	54	25.43
2485	46.06	PK	H	23.25	2.99	26.89	45.41	74	28.59
2485	39.70	AV	H	23.25	2.99	26.89	39.05	54	14.95
500.45	42.87	QP	V	18.10	1.61	28.82	33.76	46.00	12.24

802.11n ht20 mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	80.60	PK	H	31.58	5.27	0.00	117.45	N/A	N/A
5240	69.35	AV	H	31.58	5.27	0.00	106.2	N/A	N/A
5240	75.95	PK	V	31.58	5.27	0.00	112.8	N/A	N/A
5240	65.36	AV	V	31.58	5.27	0.00	102.21	N/A	N/A
5350	27.74	PK	H	31.80	5.37	0.00	64.91	74	9.09
5350	16.28	AV	H	31.80	5.37	0.00	53.45	54	0.55
10480	30.94	PK	H	37.00	7.84	26.35	49.43	74	24.57
10480	19.93	AV	H	37.00	7.84	26.35	38.42	54	15.58
15720	33.88	PK	H	37.10	10.24	25.30	55.92	74	18.08
15720	23.46	AV	H	37.10	10.24	25.30	45.5	54	8.5
1510	37.46	PK	H	23.62	2.68	26.34	37.42	74	36.58
1510	25.25	AV	H	23.62	2.68	26.34	25.21	54	28.79
2485	41.45	PK	H	25.86	2.99	26.89	43.41	74	30.59
2485	35.40	AV	H	25.86	2.99	26.89	37.36	54	16.64
500.45	42.29	QP	V	18.10	1.61	28.82	33.18	46.00	12.82

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
High Channel:5230 MHz									
5230	77.71	PK	H	31.81	5.26	0.00	114.78	N/A	N/A
5230	67.08	AV	H	31.81	5.26	0.00	104.15	N/A	N/A
5230	75.02	PK	V	31.81	5.26	0.00	112.09	N/A	N/A
5230	64.62	AV	V	31.81	5.26	0.00	101.69	N/A	N/A
5350	29.09	PK	H	32.03	5.37	0.00	66.49	74	7.51
5350	15.67	AV	H	32.03	5.37	0.00	53.07	54	0.93
10460	31.02	PK	H	37.39	7.83	26.36	49.88	74	24.12
10460	19.71	AV	H	37.39	7.83	26.36	38.57	54	15.43
15690	31.92	PK	H	39.44	10.24	25.30	56.3	74	17.7
15690	21.25	AV	H	39.44	10.24	25.30	45.63	54	8.37
1510	34.85	PK	H	24.12	2.68	26.34	35.31	74	38.69
1510	22.50	AV	H	24.12	2.68	26.34	22.96	54	31.04
2485	45.06	PK	H	23.25	2.99	26.89	44.41	74	29.59
2485	38.85	AV	H	23.25	2.99	26.89	38.2	54	15.8
500.45	41.44	QP	V	18.10	1.61	28.82	32.33	46.00	13.67

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5210 MHz									
5210	71.45	PK	H	31.78	5.24	0.00	108.47	N/A	N/A
5210	23.08	AV	H	31.78	5.24	0.00	60.1	N/A	N/A
5210	69.31	PK	V	31.78	5.24	0.00	106.33	N/A	N/A
5210	58.32	AV	V	31.78	5.24	0.00	95.34	N/A	N/A
5150	29.18	PK	H	31.67	5.18	0.00	66.03	74	7.97
5150	16.35	AV	H	31.67	5.18	0.00	53.2	54	0.8
5350	29.32	PK	H	32.03	5.37	0.00	66.72	74	7.28
5350	15.97	AV	H	32.03	5.37	0.00	53.37	54	0.63
10420	30.97	PK	H	37.38	7.80	26.36	49.79	74	24.21
10420	19.46	AV	H	37.38	7.80	26.36	38.28	54	15.72
15630	31.98	PK	H	39.43	10.23	25.31	56.33	74	17.67
15630	21.37	AV	H	39.43	10.23	25.31	45.72	54	8.28
2485	45.46	PK	H	23.25	2.99	26.89	44.81	74	29.19
2485	39.33	AV	H	23.25	2.99	26.89	38.68	54	15.32
500.45	41.83	QP	V	18.10	1.61	28.82	32.72	46.00	13.28

5250MHz-5350MHz
802.11a mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5260 MHz									
5260	75.69	PK	H	31.87	5.28	0.00	112.84	N/A	N/A
5260	63.67	AV	H	31.87	5.28	0.00	100.82	N/A	N/A
5260	73.17	PK	V	31.87	5.28	0.00	110.32	N/A	N/A
5260	61.29	AV	V	31.87	5.28	0.00	98.44	N/A	N/A
5150	25.45	PK	H	31.67	5.18	0.00	62.3	74	11.7
5150	14.76	AV	H	31.67	5.18	0.00	51.61	54	2.39
10520	32.60	PK	H	37.41	7.86	26.34	51.53	74	22.47
10520	21.02	AV	H	37.41	7.86	26.34	39.95	54	14.05
15780	32.25	PK	H	39.46	10.25	25.30	56.66	74	17.34
15780	21.42	AV	H	39.46	10.25	25.30	45.83	54	8.17
6909	36.32	PK	H	34.14	6.08	26.31	50.23	74	23.77
6909	24.33	AV	H	34.14	6.08	26.31	38.24	54	15.76
2485	40.61	PK	H	23.25	2.99	26.89	39.96	74	34.04
2485	35.08	AV	H	23.25	2.99	26.89	34.43	54	19.57
500.45	41.69	QP	V	18.10	1.61	28.82	32.58	46.00	13.42
Middle Channel:5280 MHz									
5280	76.04	PK	H	31.90	5.30	0.00	113.24	N/A	N/A
5280	63.22	AV	H	31.90	5.30	0.00	100.42	N/A	N/A
5280	73.37	PK	V	31.90	5.30	0.00	110.57	N/A	N/A
5280	61.70	AV	V	31.90	5.30	0.00	98.9	N/A	N/A
10560	30.97	PK	H	37.42	7.89	26.32	49.96	74	24.04
10560	20.68	AV	H	37.42	7.89	26.32	39.67	54	14.33
15840	32.74	PK	H	39.47	10.26	25.29	57.18	74	16.82
15840	21.34	AV	H	39.47	10.26	25.29	45.78	54	8.22
6933	34.61	PK	H	34.18	6.08	26.30	48.57	74	25.43
6933	22.95	AV	H	34.18	6.08	26.30	36.91	54	17.09
2485	40.14	PK	H	23.25	2.99	26.89	39.49	74	34.51
2485	35.51	AV	H	23.25	2.99	26.89	34.86	54	19.14
500.45	41.6	QP	V	18.10	1.61	28.82	32.49	46.00	13.51
High Channel:5320 MHz									
5320	75.07	PK	H	31.98	5.34	0.00	112.39	N/A	N/A
5320	63.47	AV	H	31.98	5.34	0.00	100.79	N/A	N/A
5320	71.48	PK	V	31.98	5.34	0.00	108.8	N/A	N/A
5320	60.11	AV	V	31.98	5.34	0.00	97.43	N/A	N/A
5350	26.94	PK	H	32.03	5.37	0.00	64.34	74	9.66
5350	14.92	AV	H	32.03	5.37	0.00	52.32	54	1.68
10640	30.85	PK	H	37.46	7.95	26.27	49.99	74	24.01
10640	19.62	AV	H	37.46	7.95	26.27	38.76	54	15.24
15960	30.99	PK	H	39.49	10.27	25.28	55.47	74	18.53
15960	19.62	AV	H	39.49	10.27	25.28	44.1	54	9.9
7024	37.96	PK	H	34.35	6.08	26.27	52.12	74	21.88
7024	27.20	AV	H	34.35	6.08	26.27	41.36	54	12.64
2485	40.76	PK	H	23.25	2.99	26.89	40.11	74	33.89
2485	34.38	AV	H	23.25	2.99	26.89	33.73	54	20.27
500.45	41.41	QP	V	18.10	1.61	28.82	32.30	46.00	13.70

802.11n ht20 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5260 MHz									
5260	71.77	PK	H	31.87	5.28	0.00	108.92	N/A	N/A
5260	59.44	AV	H	31.87	5.28	0.00	96.59	N/A	N/A
5260	73.58	PK	V	31.87	5.28	0.00	110.73	N/A	N/A
5260	61.06	AV	V	31.87	5.28	0.00	98.21	N/A	N/A
5150	26.48	PK	V	31.67	5.18	0.00	63.33	74	10.67
5150	14.82	AV	V	31.67	5.18	0.00	51.67	54	2.33
10520	31.01	PK	V	37.41	7.86	26.34	49.94	74	24.06
10520	20.64	AV	V	37.41	7.86	26.34	39.57	54	14.43
15780	32.78	PK	V	39.46	10.25	25.30	57.19	74	16.81
15780	22.32	AV	V	39.46	10.25	25.30	46.73	54	7.27
7015	37.23	PK	V	34.33	6.08	26.27	51.37	74	22.63
7015	27.47	AV	V	34.33	6.08	26.27	41.61	54	12.39
2845	43.28	PK	V	23.89	3.29	26.56	43.9	74	30.1
2845	36.54	AV	V	23.89	3.29	26.56	37.16	54	16.84
500.45	43.08	QP	V	18.10	1.61	28.82	33.97	46.00	12.03
Middle Channel:5280 MHz									
5280	71.63	PK	H	31.90	5.30	0.00	108.83	N/A	N/A
5280	61.37	AV	H	31.90	5.30	0.00	98.57	N/A	N/A
5280	72.98	PK	V	31.90	5.30	0.00	110.18	N/A	N/A
5280	61.82	AV	V	31.90	5.30	0.00	99.02	N/A	N/A
10560	32.88	PK	V	37.42	7.89	26.32	51.87	74	22.13
10560	22.60	AV	V	37.42	7.89	26.32	41.59	54	12.41
15840	32.39	PK	V	39.47	10.26	25.29	56.83	74	17.17
15840	22.32	AV	V	39.47	10.26	25.29	46.76	54	7.24
7045	35.95	PK	V	34.39	6.09	26.28	50.15	74	23.85
7045	25.23	AV	V	34.39	6.09	26.28	39.43	54	14.57
2485	41.39	PK	V	23.25	2.99	26.89	40.74	74	33.26
2485	35.38	AV	V	23.25	2.99	26.89	34.73	54	19.27
500.45	41.88	QP	V	18.10	1.61	28.82	32.77	46.00	13.23
High Channel:5320 MHz									
5320	71.44	PK	H	31.98	5.34	0.00	108.76	N/A	N/A
5320	60.18	AV	H	31.98	5.34	0.00	97.5	N/A	N/A
5320	73.13	PK	V	31.98	5.34	0.00	110.45	N/A	N/A
5320	60.95	AV	V	31.98	5.34	0.00	98.27	N/A	N/A
5350	27.24	PK	V	32.03	5.37	0.00	64.64	74	9.36
5350	15.18	AV	V	32.03	5.37	0.00	52.58	54	1.42
10640	29.80	PK	V	37.46	7.95	26.27	48.94	74	25.06
10640	19.53	AV	V	37.46	7.95	26.27	38.67	54	15.33
15960	31.20	PK	V	39.49	10.27	25.28	55.68	74	18.32
15960	20.39	AV	V	39.49	10.27	25.28	44.87	54	9.13
7090	33.80	PK	V	34.48	6.11	26.30	48.09	74	25.91
7090	22.81	AV	V	34.48	6.11	26.30	37.1	54	16.9
2485	41.28	PK	V	23.25	2.99	26.89	40.63	74	33.37
2485	35.08	AV	V	23.25	2.99	26.89	34.43	54	19.57
500.45	42.45	QP	V	18.10	1.61	28.82	33.34	46.00	12.66

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5270 MHz									
5270	76.02	PK	H	31.89	5.29	0.00	113.2	N/A	N/A
5270	64.72	AV	H	31.89	5.29	0.00	101.9	N/A	N/A
5270	77.28	PK	V	31.89	5.29	0.00	114.46	N/A	N/A
5270	66.15	AV	V	31.89	5.29	0.00	103.33	N/A	N/A
5150	26.73	PK	V	31.67	5.18	0.00	63.58	74	10.42
5150	14.11	AV	V	31.67	5.18	0.00	50.96	54	3.04
10540	29.27	PK	V	37.42	7.88	26.33	48.24	74	25.76
10540	19.83	AV	V	37.42	7.88	26.33	38.8	54	15.2
15810	31.32	PK	V	39.46	10.25	25.30	55.73	74	18.27
15810	21.64	AV	V	39.46	10.25	25.30	46.05	54	7.95
1600	35.68	PK	V	24.26	2.75	26.43	36.26	74	37.74
1600	25.00	AV	V	24.26	2.75	26.43	25.58	54	28.42
2485	40.90	PK	V	23.25	2.99	26.89	40.25	74	33.75
2485	34.94	AV	V	23.25	2.99	26.89	34.29	54	19.71
500.45	42.52	QP	V	18.10	1.61	28.82	33.41	46.00	12.59
High Channel:5310 MHz									
5310	73.92	PK	H	31.96	5.33	0.00	111.21	N/A	N/A
5310	62.99	AV	H	31.96	5.33	0.00	100.28	N/A	N/A
5310	75.08	PK	V	31.96	5.33	0.00	112.37	N/A	N/A
5310	64.63	AV	V	31.96	5.33	0.00	101.92	N/A	N/A
5350	29.58	PK	V	32.03	5.37	0.00	66.98	74	7.02
5350	15.60	AV	V	32.03	5.37	0.00	53	54	1
10620	29.18	PK	V	37.45	7.93	26.28	48.28	74	25.72
10620	18.57	AV	V	37.45	7.93	26.28	37.67	54	16.33
15930	31.57	PK	V	39.49	10.27	25.29	56.04	74	17.96
15930	19.52	AV	V	39.49	10.27	25.29	43.99	54	10.01
1600	34.50	PK	V	24.26	2.75	26.43	35.08	74	38.92
1600	23.85	AV	V	24.26	2.75	26.43	24.43	54	29.57
2485	37.80	PK	V	23.25	2.99	26.89	37.15	74	36.85
2485	32.48	AV	V	23.25	2.99	26.89	31.83	54	22.17
500.45	40.99	QP	V	18.10	1.61	28.82	31.88	46.00	14.12

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5290 MHz									
5290	61.28	PK	H	31.92	5.31	0.00	98.51	N/A	N/A
5290	51.41	AV	H	31.92	5.31	0.00	88.64	N/A	N/A
5290	69.95	PK	V	31.92	5.31	0.00	107.18	N/A	N/A
5290	57.53	AV	V	31.92	5.31	0.00	94.76	N/A	N/A
5150	26.43	PK	V	31.67	5.18	0.00	63.28	74	10.72
5150	14.27	AV	V	31.67	5.18	0.00	51.12	54	2.88
5350	26.96	PK	V	32.03	5.37	0.00	64.36	74	9.64
5350	15.25	AV	V	32.03	5.37	0.00	52.65	54	1.35
10580	30.61	PK	V	37.43	7.91	26.30	49.65	74	24.35
10580	19.69	AV	V	37.43	7.91	26.30	38.73	54	15.27
15870	32.34	PK	V	39.47	10.26	25.29	56.78	74	17.22
15870	21.91	AV	V	39.47	10.26	25.29	46.35	54	7.65
2845	41.86	PK	V	23.89	3.29	26.56	42.48	74	31.52
2845	35.79	AV	V	23.89	3.29	26.56	36.41	54	17.59
500.45	41.58	QP	V	18.10	1.61	28.82	32.47	46.00	13.53

5470MHz-5725MHz:
802.11a Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5500 MHz									
5500	72.65	PK	H	32.30	5.52	0.00	110.47	N/A	N/A
5500	61.23	AV	H	32.30	5.52	0.00	99.05	N/A	N/A
5500	70.33	PK	V	32.30	5.52	0.00	108.15	N/A	N/A
5500	59.30	AV	V	32.30	5.52	0.00	97.12	N/A	N/A
5470	25.69	PK	H	32.25	5.49	0.00	63.43	74	10.57
5470	14.59	AV	H	32.25	5.49	0.00	52.33	54	1.67
11000	32.43	PK	H	37.60	8.20	26.06	52.17	74	21.83
11000	22.50	AV	H	37.60	8.20	26.06	42.24	54	11.76
16500	33.20	PK	H	40.30	10.44	25.48	58.46	74	15.54
16500	23.33	AV	H	40.30	10.44	25.48	48.59	54	5.41
2485	45.33	PK	H	23.25	2.99	26.89	44.68	74	29.32
2485	34.30	AV	H	23.25	2.99	26.89	33.65	54	20.35
1354	36.85	PK	H	23.72	2.47	26.47	36.57	74	37.43
1354	26.22	AV	H	23.72	2.47	26.47	25.94	54	28.06
500.45	41.67	QP	V	18.10	1.61	28.82	32.56	46.00	13.44
Middle Channel:5580 MHz									
5580	72.82	PK	H	32.40	5.59	0.00	110.81	N/A	N/A
5580	61.81	AV	H	32.40	5.59	0.00	99.8	N/A	N/A
5580	70.76	PK	V	32.40	5.59	0.00	108.75	N/A	N/A
5580	59.25	AV	V	32.40	5.59	0.00	97.24	N/A	N/A
11160	33.57	PK	H	37.73	8.21	26.05	53.46	74	20.54
11160	23.51	AV	H	37.73	8.21	26.05	43.4	54	10.6
16740	34.37	PK	H	41.07	10.44	25.57	60.31	74	13.69
16740	24.36	AV	H	41.07	10.44	25.57	50.3	54	3.7
2485	45.55	PK	H	23.25	2.99	26.89	44.9	74	29.1
2485	34.72	AV	H	23.25	2.99	26.89	34.07	54	19.93
1525	35.87	PK	H	24.14	2.69	26.35	36.35	74	37.65
1525	25.22	AV	H	24.14	2.69	26.35	25.7	54	28.3
500.45	41.43	QP	V	18.10	1.61	28.82	32.32	46.00	13.68
High Channel:5700 MHz									
5700	72.17	PK	H	32.54	5.70	0.00	110.41	N/A	N/A
5700	60.65	AV	H	32.54	5.70	0.00	98.89	N/A	N/A
5700	70.59	PK	V	32.54	5.70	0.00	108.83	N/A	N/A
5700	59.02	AV	V	32.54	5.70	0.00	97.26	N/A	N/A
5725	25.41	PK	H	32.57	5.72	0.00	63.7	74	10.3
5725	14.72	AV	H	32.57	5.72	0.00	53.01	54	0.99
11400	33.99	PK	H	37.92	8.22	26.03	54.1	74	19.9
11400	23.96	AV	H	37.92	8.22	26.03	44.07	54	9.93
17100	33.54	PK	H	42.36	10.60	25.80	60.7	74	13.3
17100	24.37	AV	H	42.36	10.60	25.80	51.53	54	2.47
2485	45.99	PK	H	23.25	2.99	26.89	45.34	74	28.66
2485	34.35	AV	H	23.25	2.99	26.89	33.7	54	20.3
1195	36.88	PK	H	23.31	2.25	26.62	35.82	74	38.18
1195	26.65	AV	H	23.31	2.25	26.62	25.59	54	28.41
500.45	42.97	QP	V	18.10	1.61	28.82	33.86	46.00	12.14

802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5500 MHz									
5500	71.88	PK	H	32.30	5.52	0.00	109.7	N/A	N/A
5500	61.30	AV	H	32.30	5.52	0.00	99.12	N/A	N/A
5500	68.51	PK	V	32.30	5.52	0.00	106.33	N/A	N/A
5500	57.22	AV	V	32.30	5.52	0.00	95.04	N/A	N/A
5470	26.77	PK	H	32.25	5.49	0.00	64.51	74	9.49
5470	14.69	AV	H	32.25	5.49	0.00	52.43	54	1.57
11000	32.45	PK	H	37.60	8.20	26.06	52.19	74	21.81
11000	22.44	AV	H	37.60	8.20	26.06	42.18	54	11.82
16500	32.89	PK	H	40.30	10.44	25.48	58.15	74	15.85
16500	22.50	AV	H	40.30	10.44	25.48	47.76	54	6.24
2485	44.48	PK	H	23.25	2.99	26.89	43.83	74	30.17
2485	34.19	AV	H	23.25	2.99	26.89	33.54	54	20.46
1542	34.79	PK	H	24.17	2.70	26.37	35.29	74	38.71
1542	25.32	AV	H	24.17	2.70	26.37	25.82	54	28.18
500.45	42.59	QP	V	18.10	1.61	28.82	33.48	46.00	12.52
Middle Channel:5600 MHz									
5600	79.39	PK	H	32.42	5.61	0.00	117.42	N/A	N/A
5600	68.68	AV	H	32.42	5.61	0.00	106.71	N/A	N/A
5600	75.82	PK	V	32.42	5.61	0.00	113.85	N/A	N/A
5600	64.94	AV	V	32.42	5.61	0.00	102.97	N/A	N/A
11200	32.82	PK	H	37.76	8.21	26.04	52.75	74	21.25
11200	22.76	AV	H	37.76	8.21	26.04	42.69	54	11.31
16800	34.33	PK	H	41.26	10.43	25.59	60.43	74	13.57
16800	24.42	AV	H	41.26	10.43	25.59	50.52	54	3.48
2485	44.54	PK	H	23.25	2.99	26.89	43.89	74	30.11
2485	34.48	AV	H	23.25	2.99	26.89	33.83	54	20.17
1600	35.19	PK	H	24.26	2.75	26.43	35.77	74	38.23
1600	24.67	AV	H	24.26	2.75	26.43	25.25	54	28.75
500.45	42.42	QP	V	18.10	1.61	28.82	33.31	46.00	12.69
Middle Channel:5700 MHz									
5700	71.62	PK	H	32.54	5.70	0.00	109.86	N/A	N/A
5700	61.55	AV	H	32.54	5.70	0.00	99.79	N/A	N/A
5700	68.59	PK	V	32.54	5.70	0.00	106.83	N/A	N/A
5700	57.57	AV	V	32.54	5.70	0.00	95.81	N/A	N/A
5725	26.23	PK	H	32.57	5.72	0.00	64.52	74	9.48
5725	14.66	AV	H	32.57	5.72	0.00	52.95	54	1.05
11400	33.31	PK	H	37.92	8.22	26.03	53.42	74	20.58
11400	23.05	AV	H	37.92	8.22	26.03	43.16	54	10.84
17100	32.86	PK	H	42.36	10.60	25.80	60.02	74	13.98
17100	23.61	AV	H	42.36	10.60	25.80	50.77	54	3.23
2485	44.68	PK	H	23.25	2.99	26.89	44.03	74	29.97
2485	34.75	AV	H	23.25	2.99	26.89	34.1	54	19.9
1621	34.23	PK	H	24.29	2.76	26.45	34.83	74	39.17
1621	25.48	AV	H	24.29	2.76	26.45	26.08	54	27.92
500.45	42.36	QP	V	18.10	1.61	28.82	33.25	46.00	12.75

802.11n ht40 Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5510 MHz									
5510	72.52	PK	H	32.31	5.53	0.00	110.36	N/A	N/A
5510	61.96	AV	H	32.31	5.53	0.00	99.8	N/A	N/A
5510	69.67	PK	V	32.31	5.53	0.00	107.51	N/A	N/A
5510	59.43	AV	V	32.31	5.53	0.00	97.27	N/A	N/A
5470	27.13	PK	H	32.25	5.49	0.00	64.87	74	9.13
5470	14.38	AV	H	32.25	5.49	0.00	52.12	54	1.88
11020	33.28	PK	H	37.62	8.20	26.06	53.04	74	20.96
11020	22.32	AV	H	37.62	8.20	26.06	42.08	54	11.92
16530	33.54	PK	H	40.40	10.44	25.49	58.89	74	15.11
16530	23.00	AV	H	40.40	10.44	25.49	48.35	54	5.65
2485	44.57	PK	H	23.25	2.99	26.89	43.92	74	30.08
2485	34.31	AV	H	23.25	2.99	26.89	33.66	54	20.34
1495	35.85	PK	H	24.09	2.66	26.33	36.27	74	37.73
1495	25.40	AV	H	24.09	2.66	26.33	25.82	54	28.18
500.45	42.83	QP	V	18.10	1.61	28.82	33.72	46.00	12.28
Middle Channel:5590 MHz									
5590	72.29	PK	H	32.41	5.60	0.00	110.3	N/A	N/A
5590	61.72	AV	H	32.41	5.60	0.00	99.73	N/A	N/A
5590	70.49	PK	V	32.41	5.60	0.00	108.5	N/A	N/A
5590	60.24	AV	V	32.41	5.60	0.00	98.25	N/A	N/A
5725	27.10	PK	H	32.57	5.72	0.00	65.39	74	8.61
5725	13.83	AV	H	32.57	5.72	0.00	52.12	54	1.88
11180	33.91	PK	H	37.74	8.21	26.05	53.81	74	20.19
11180	23.46	AV	H	37.74	8.21	26.05	43.36	54	10.64
16770	35.39	PK	H	41.16	10.43	25.58	61.4	74	12.6
16770	24.11	AV	H	41.16	10.43	25.58	50.12	54	3.88
2485	44.64	PK	H	23.25	2.99	26.89	43.99	74	30.01
2485	34.91	AV	H	23.25	2.99	26.89	34.26	54	19.74
1600	35.96	PK	H	24.26	2.75	26.43	36.54	74	37.46
1600	25.11	AV	H	24.26	2.75	26.43	25.69	54	28.31
500.45	42.59	QP	V	18.10	1.61	28.82	33.48	46.00	12.52
Middle Channel:5670 MHz									
5670	72.83	PK	H	32.50	5.67	0.00	111	N/A	N/A
5670	62.44	AV	H	32.50	5.67	0.00	100.61	N/A	N/A
5670	69.39	PK	V	32.50	5.67	0.00	107.56	N/A	N/A
5670	58.62	AV	V	32.50	5.67	0.00	96.79	N/A	N/A
5725	27.63	PK	H	32.57	5.72	0.00	65.92	74	8.08
5725	14.79	AV	H	32.57	5.72	0.00	53.08	54	0.92
11340	34.50	PK	H	37.87	8.21	26.03	54.55	74	19.45
11340	22.65	AV	H	37.87	8.21	26.03	42.7	54	11.3
17010	34.83	PK	H	41.95	10.45	25.67	61.56	74	12.44
17010	24.56	AV	H	41.95	10.45	25.67	51.29	54	2.71
2485	44.70	PK	H	23.25	2.99	26.89	44.05	74	29.95
2485	34.52	AV	H	23.25	2.99	26.89	33.87	54	20.13
1600	35.49	PK	H	24.26	2.75	26.43	36.07	74	37.93
1600	24.76	AV	H	24.26	2.75	26.43	25.34	54	28.66
500.45	42.5	QP	V	18.10	1.61	28.82	33.39	46.00	12.61

802.11n ac80 mode

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5530 MHz									
5530	71.46	PK	H	32.34	5.55	0.00	109.35	N/A	N/A
5530	60.98	AV	H	32.34	5.55	0.00	98.87	N/A	N/A
5530	67.20	PK	V	32.34	5.55	0.00	105.09	N/A	N/A
5530	56.96	AV	V	32.34	5.55	0.00	94.85	N/A	N/A
5470	28.32	PK	H	32.25	5.49	0.00	66.06	74	7.94
5470	14.69	AV	H	32.25	5.49	0.00	52.43	54	1.57
11060	32.84	PK	H	37.65	8.20	26.06	52.63	74	21.37
11060	22.45	AV	H	37.65	8.20	26.06	42.24	54	11.76
16590	33.63	PK	H	40.59	10.44	25.51	59.15	74	14.85
16590	24.06	AV	H	40.59	10.44	25.51	49.58	54	4.42
2485	44.58	PK	H	23.25	2.99	26.89	43.93	74	30.07
2485	34.62	AV	H	23.25	2.99	26.89	33.97	54	20.03
500.45	42.31	QP	V	18.10	1.61	28.82	33.20	46.00	12.80
Middle Channel:5610 MHz									
5610	71.94	PK	H	32.43	5.62	0.00	109.99	N/A	N/A
5610	60.66	AV	H	32.43	5.62	0.00	98.71	N/A	N/A
5610	66.96	PK	V	32.43	5.62	0.00	105.01	N/A	N/A
5610	57.38	AV	V	32.43	5.62	0.00	95.43	N/A	N/A
5725	53.20	PK	H	32.57	5.72	26.63	64.86	74	9.14
5725	41.14	AV	H	32.57	5.72	26.63	52.8	54	1.2
11220	32.79	PK	H	37.78	8.21	26.04	52.74	74	21.26
11220	23.12	AV	H	37.78	8.21	26.04	43.07	54	10.93
16830	34.89	PK	H	41.36	10.43	25.60	61.08	74	12.92
16830	24.68	AV	H	41.36	10.43	25.60	50.87	54	3.13
2485	45.29	PK	H	23.25	2.99	26.89	44.64	74	29.36
2485	34.42	AV	H	23.25	2.99	26.89	33.77	54	20.23
500.45	42.78	QP	V	18.10	1.61	28.82	33.67	46.00	12.33

MIMO mode (Chain 0 & Chain 1 & Chain 2 & Chain 3) without beamforming:

5150MHz-5250MHz

802.11a mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	78.02	PK	H	31.83	5.27	0.00	115.12	N/A	N/A
5240	67.19	AV	H	31.83	5.27	0.00	104.29	N/A	N/A
5240	78.02	PK	V	31.83	5.27	0.00	115.12	N/A	N/A
5240	67.19	AV	V	31.83	5.27	0.00	104.29	N/A	N/A
5350	27.51	PK	H	32.03	5.37	0.00	64.91	74	9.09
5350	16.02	AV	H	32.03	5.37	0.00	53.42	54	0.58
10480	31.07	PK	H	37.40	7.84	26.35	49.96	74	24.04
10480	20.36	AV	H	37.40	7.84	26.35	39.25	54	14.75
15720	31.65	PK	H	39.44	10.24	25.30	56.03	74	17.97
15720	21.41	AV	H	39.44	10.24	25.30	45.79	54	8.21
1495	41.00	PK	H	24.09	2.66	26.33	41.42	74	32.58
1495	28.55	AV	H	24.09	2.66	26.33	28.97	54	25.03
2485	45.38	PK	H	23.25	2.99	26.89	44.73	74	29.27
2485	38.79	AV	H	23.25	2.99	26.89	38.14	54	15.86
500.45	42.26	QP	V	18.10	1.61	28.82	33.15	46.00	12.85

802.11n ht20 mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	78.82	PK	H	31.83	5.27	0.00	115.92	N/A	N/A
5240	67.07	AV	H	31.83	5.27	0.00	104.17	N/A	N/A
5240	77.16	PK	V	31.83	5.27	0.00	114.26	N/A	N/A
5240	66.00	AV	V	31.83	5.27	0.00	103.1	N/A	N/A
5350	28.21	PK	H	32.03	5.37	0.00	65.61	74	8.39
5350	16.05	AV	H	32.03	5.37	0.00	53.45	54	0.55
10480	31.53	PK	H	37.40	7.84	26.35	50.42	74	23.58
10480	19.84	AV	H	37.40	7.84	26.35	38.73	54	15.27
15720	32.44	PK	H	39.44	10.24	25.30	56.82	74	17.18
15720	20.36	AV	H	39.44	10.24	25.30	44.74	54	9.26
1510	40.36	PK	H	24.12	2.68	26.34	40.82	74	33.18
1510	29.43	AV	H	24.12	2.68	26.34	29.89	54	24.11
2485	44.92	PK	H	23.25	2.99	26.89	44.27	74	29.73
2485	38.82	AV	H	23.25	2.99	26.89	38.17	54	15.83
500.45	42.95	QP	V	18.10	1.61	28.82	33.84	46.00	12.16

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
High Channel:5230 MHz									
5230	76.60	PK	H	31.81	5.26	0.00	113.67	N/A	N/A
5230	66.65	AV	H	31.81	5.26	0.00	103.72	N/A	N/A
5230	75.06	PK	V	31.81	5.26	0.00	112.13	N/A	N/A
5230	64.94	AV	V	31.81	5.26	0.00	102.01	N/A	N/A
5350	29.41	PK	H	32.03	5.37	0.00	66.81	74	7.19
5350	15.30	AV	H	32.03	5.37	0.00	52.7	54	1.3
10460	31.70	PK	H	37.39	7.83	26.36	50.56	74	23.44
10460	20.54	AV	H	37.39	7.83	26.36	39.4	54	14.6
15690	32.67	PK	H	39.44	10.24	25.30	57.05	74	16.95
15690	21.55	AV	H	39.44	10.24	25.30	45.93	54	8.07
1500	40.98	PK	H	24.10	2.67	26.33	41.42	74	32.58
1500	28.77	AV	H	24.10	2.67	26.33	29.21	54	24.79
2485	44.40	PK	H	23.25	2.99	26.89	43.75	74	30.25
2485	39.36	AV	H	23.25	2.99	26.89	38.71	54	15.29
500.45	42.26	QP	V	18.10	1.61	28.82	33.15	46.00	12.85

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5210 MHz									
5210	72.80	PK	H	31.78	5.24	0.00	109.82	N/A	N/A
5210	61.21	AV	H	31.78	5.24	0.00	98.23	N/A	N/A
5210	71.17	PK	V	31.78	5.24	0.00	108.19	N/A	N/A
5210	59.98	AV	V	31.78	5.24	0.00	97	N/A	N/A
5150	29.90	PK	H	31.67	5.18	0.00	66.75	74	7.25
5150	16.20	AV	H	31.67	5.18	0.00	53.05	54	0.95
5350	28.22	PK	H	32.03	5.37	0.00	65.62	74	8.38
5350	15.53	AV	H	32.03	5.37	0.00	52.93	54	1.07
10420	32.03	PK	H	37.38	7.80	26.36	50.85	74	23.15
10420	21.27	AV	H	37.38	7.80	26.36	40.09	54	13.91
15630	32.88	PK	H	39.43	10.23	25.31	57.23	74	16.77
15630	22.26	AV	H	39.43	10.23	25.31	46.61	54	7.39
2485	43.02	PK	H	23.25	2.99	26.89	42.37	74	31.63
2485	39.36	AV	H	23.25	2.99	26.89	38.71	54	15.29
500.45	41.58	QP	V	18.10	1.61	28.82	32.47	46.00	13.53

5250MHz-5350MHz
802.11a mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5260 MHz									
5260	73.62	PK	H	31.87	5.28	0.00	110.77	N/A	N/A
5260	62.13	AV	H	31.87	5.28	0.00	99.28	N/A	N/A
5260	70.99	PK	V	31.87	5.28	0.00	108.14	N/A	N/A
5260	60.03	AV	V	31.87	5.28	0.00	97.18	N/A	N/A
5150	27.97	PK	H	31.67	5.18	0.00	64.82	74	9.18
5150	15.03	AV	H	31.67	5.18	0.00	51.88	54	2.12
10520	33.00	PK	H	37.41	7.86	26.34	51.93	74	22.07
10520	23.23	AV	H	37.41	7.86	26.34	42.16	54	11.84
15780	32.68	PK	H	39.46	10.25	25.30	57.09	74	16.91
15780	22.51	AV	H	39.46	10.25	25.30	46.92	54	7.08
6909	35.43	PK	H	34.14	6.08	26.31	49.34	74	24.66
6909	24.75	AV	H	34.14	6.08	26.31	38.66	54	15.34
2485	41.71	PK	H	23.25	2.99	26.89	41.06	74	32.94
2485	35.23	AV	H	23.25	2.99	26.89	34.58	54	19.42
500.45	42.15	QP	V	18.10	1.61	28.82	33.04	46.00	12.96
Middle Channel:5280 MHz									
5280	74.43	PK	H	31.90	5.30	0.00	111.63	N/A	N/A
5280	62.81	AV	H	31.90	5.30	0.00	100.01	N/A	N/A
5280	70.74	PK	V	31.90	5.30	0.00	107.94	N/A	N/A
5280	59.87	AV	V	31.90	5.30	0.00	97.07	N/A	N/A
10560	32.43	PK	H	37.42	7.89	26.32	51.42	74	22.58
10560	22.38	AV	H	37.42	7.89	26.32	41.37	54	12.63
15840	32.92	PK	H	39.47	10.26	25.29	57.36	74	16.64
15840	21.96	AV	H	39.47	10.26	25.29	46.4	54	7.6
6933	35.16	PK	H	34.18	6.08	26.30	49.12	74	24.88
6933	24.07	AV	H	34.18	6.08	26.30	38.03	54	15.97
2485	41.73	PK	H	23.25	2.99	26.89	41.08	74	32.92
2485	30.74	AV	H	23.25	2.99	26.89	30.09	54	23.91
500.45	42.22	QP	V	18.10	1.61	28.82	33.11	46.00	12.89
High Channel:5320 MHz									
5320	73.40	PK	H	31.98	5.34	0.00	110.72	N/A	N/A
5320	62.55	AV	H	31.98	5.34	0.00	99.87	N/A	N/A
5320	71.31	PK	V	31.98	5.34	0.00	108.63	N/A	N/A
5320	60.06	AV	V	31.98	5.34	0.00	97.38	N/A	N/A
5350	28.30	PK	H	32.03	5.37	0.00	65.7	74	8.3
5350	14.82	AV	H	32.03	5.37	0.00	52.22	54	1.78
10640	32.24	PK	H	37.46	7.95	26.27	51.38	74	22.62
10640	21.66	AV	H	37.46	7.95	26.27	40.8	54	13.2
15960	31.81	PK	H	39.49	10.27	25.28	56.29	74	17.71
15960	21.88	AV	H	39.49	10.27	25.28	46.36	54	7.64
7024	35.29	PK	H	34.35	6.08	26.27	49.45	74	24.55
7024	24.41	AV	H	34.35	6.08	26.27	38.57	54	15.43
2485	41.64	PK	H	23.25	2.99	26.89	40.99	74	33.01
2485	31.17	AV	H	23.25	2.99	26.89	30.52	54	23.48
500.45	40.69	QP	V	18.10	1.61	28.82	31.58	46.00	14.42

802.11n ht20 mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5260 MHz									
5260	73.09	PK	H	31.87	5.28	0.00	110.24	N/A	N/A
5260	61.13	AV	H	31.87	5.28	0.00	98.28	N/A	N/A
5260	70.29	PK	V	31.87	5.28	0.00	107.44	N/A	N/A
5260	59.05	AV	V	31.87	5.28	0.00	96.2	N/A	N/A
5150	28.56	PK	H	31.67	5.18	0.00	65.41	74	8.59
5150	14.93	AV	H	31.67	5.18	0.00	51.78	54	2.22
10520	33.22	PK	H	37.41	7.86	26.34	52.15	74	21.85
10520	23.08	AV	H	37.41	7.86	26.34	42.01	54	11.99
15780	33.02	PK	H	39.46	10.25	25.30	57.43	74	16.57
15780	22.46	AV	H	39.46	10.25	25.30	46.87	54	7.13
4250	36.15	PK	H	29.40	5.10	26.70	43.95	74	30.05
4250	25.27	AV	H	29.40	5.10	26.70	33.07	54	20.93
2845	42.68	PK	H	23.89	3.29	26.56	43.3	74	30.7
2845	32.79	AV	H	23.89	3.29	26.56	33.41	54	20.59
500.45	41.28	QP	V	18.10	1.61	28.82	32.17	46.00	13.83
Middle Channel:5280 MHz									
5280	73.21	PK	H	31.90	5.30	0.00	110.41	N/A	N/A
5280	61.60	AV	H	31.90	5.30	0.00	98.8	N/A	N/A
5280	70.25	PK	V	31.90	5.30	0.00	107.45	N/A	N/A
5280	59.34	AV	V	31.90	5.30	0.00	96.54	N/A	N/A
10560	32.75	PK	H	37.42	7.89	26.32	51.74	74	22.26
10560	22.18	AV	H	37.42	7.89	26.32	41.17	54	12.83
15840	32.47	PK	H	39.47	10.26	25.29	56.91	74	17.09
15840	22.26	AV	H	39.47	10.26	25.29	46.7	54	7.3
7045	35.63	PK	H	34.39	6.09	26.28	49.83	74	24.17
7045	24.89	AV	H	34.39	6.09	26.28	39.09	54	14.91
2485	41.40	PK	H	23.25	2.99	26.89	40.75	74	33.25
2485	31.05	AV	H	23.25	2.99	26.89	30.4	54	23.6
500.45	41.37	QP	V	18.10	1.61	28.82	32.26	46.00	13.74
High Channel:5320 MHz									
5320	72.69	PK	H	31.98	5.34	0.00	110.01	N/A	N/A
5320	61.10	AV	H	31.98	5.34	0.00	98.42	N/A	N/A
5320	70.77	PK	V	31.98	5.34	0.00	108.09	N/A	N/A
5320	59.29	AV	V	31.98	5.34	0.00	96.61	N/A	N/A
5350	26.72	PK	H	32.03	5.37	0.00	64.12	74	9.88
5350	15.25	AV	H	32.03	5.37	0.00	52.65	54	1.35
10640	29.80	PK	H	37.46	7.95	26.27	48.94	74	25.06
10640	19.53	AV	H	37.46	7.95	26.27	38.67	54	15.33
15960	31.20	PK	H	39.49	10.27	25.28	55.68	74	18.32
15960	20.39	AV	H	39.49	10.27	25.28	44.87	54	9.13
7090	33.80	PK	H	34.48	6.11	26.30	48.09	74	25.91
7090	22.76	AV	H	34.48	6.11	26.30	37.05	54	16.95
2485	41.28	PK	H	23.25	2.99	26.89	40.63	74	33.37
2485	35.02	AV	H	23.25	2.99	26.89	34.37	54	19.63
500.45	41.13	QP	V	18.10	1.61	28.82	32.02	46.00	13.98

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5270 MHz									
5270	72.86	PK	H	31.89	5.29	0.00	110.04	N/A	N/A
5270	62.22	AV	H	31.89	5.29	0.00	99.4	N/A	N/A
5270	71.15	PK	V	31.89	5.29	0.00	108.33	N/A	N/A
5270	59.97	AV	V	31.89	5.29	0.00	97.15	N/A	N/A
5150	28.03	PK	H	31.67	5.18	0.00	64.88	74	9.12
5150	15.02	AV	H	31.67	5.18	0.00	51.87	54	2.13
10540	29.27	PK	H	37.42	7.88	26.33	48.24	74	25.76
10540	19.83	AV	H	37.42	7.88	26.33	38.8	54	15.2
15810	31.32	PK	H	39.46	10.25	25.30	55.73	74	18.27
15810	21.64	AV	H	39.46	10.25	25.30	46.05	54	7.95
1458	36.64	PK	H	23.99	2.61	26.37	36.87	74	37.13
1458	25.96	AV	H	23.99	2.61	26.37	26.19	54	27.81
2485	40.90	PK	H	23.25	2.99	26.89	40.25	74	33.75
2485	34.94	AV	H	23.25	2.99	26.89	34.29	54	19.71
500.45	42.67	QP	V	18.10	1.61	28.82	33.56	46.00	12.44
High Channel:5310 MHz									
5310	72.08	PK	H	31.96	5.33	0.00	109.37	N/A	N/A
5310	61.25	AV	H	31.96	5.33	0.00	98.54	N/A	N/A
5310	71.04	PK	V	31.96	5.33	0.00	108.33	N/A	N/A
5310	60.13	AV	V	31.96	5.33	0.00	97.42	N/A	N/A
5350	27.53	PK	H	32.03	5.37	0.00	64.93	74	9.07
5350	14.99	AV	H	32.03	5.37	0.00	52.39	54	1.61
10620	32.94	PK	H	37.45	7.93	26.28	52.04	74	21.96
10620	21.82	AV	H	37.45	7.93	26.28	40.92	54	13.08
15930	31.69	PK	H	39.49	10.27	25.29	56.16	74	17.84
15930	21.84	AV	H	39.49	10.27	25.29	46.31	54	7.69
1352	35.18	PK	H	23.72	2.47	26.47	34.9	74	39.1
1352	24.38	AV	H	23.72	2.47	26.47	24.1	54	29.9
2485	41.77	PK	H	23.25	2.99	26.89	41.12	74	32.88
2485	31.58	AV	H	23.25	2.99	26.89	30.93	54	23.07
500.45	42.29	QP	V	18.10	1.61	28.82	33.18	46.00	12.82

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5290 MHz									
5290	72.29	PK	H	31.92	5.31	0.00	109.52	N/A	N/A
5290	60.13	AV	H	31.92	5.31	0.00	97.36	N/A	N/A
5290	70.62	PK	V	31.92	5.31	0.00	107.85	N/A	N/A
5290	58.34	AV	V	31.92	5.31	0.00	95.57	N/A	N/A
5150	26.12	PK	H	31.67	5.18	0.00	62.97	74	11.03
5150	14.39	AV	H	31.67	5.18	0.00	51.24	54	2.76
5350	27.41	PK	H	32.03	5.37	0.00	64.81	74	9.19
5350	14.86	AV	H	32.03	5.37	0.00	52.26	54	1.74
10580	32.80	PK	H	37.43	7.91	26.30	51.84	74	22.16
10580	21.98	AV	H	37.43	7.91	26.30	41.02	54	12.98
15870	32.16	PK	H	39.47	10.26	25.29	56.6	74	17.4
15870	21.66	AV	H	39.47	10.26	25.29	46.1	54	7.9
2845	40.27	PK	H	23.89	3.29	26.56	40.89	74	33.11
2845	29.03	AV	H	23.89	3.29	26.56	29.65	54	24.35
500.45	42.12	QP	V	18.10	1.61	28.82	33.01	46.00	12.99

5470MHz-5725MHz:
802.11a Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5500 MHz									
5500	71.57	PK	H	32.30	5.52	0.00	109.39	N/A	N/A
5500	60.14	AV	H	32.30	5.52	0.00	97.96	N/A	N/A
5500	70.00	PK	V	32.30	5.52	0.00	107.82	N/A	N/A
5500	59.19	AV	V	32.30	5.52	0.00	97.01	N/A	N/A
5470	26.82	PK	H	32.25	5.49	0.00	64.56	74	9.44
5470	14.75	AV	H	32.25	5.49	0.00	52.49	54	1.51
11000	32.09	PK	H	37.60	8.20	26.06	51.83	74	22.17
11000	21.57	AV	H	37.60	8.20	26.06	41.31	54	12.69
16500	33.43	PK	H	40.30	10.44	25.48	58.69	74	15.31
16500	22.96	AV	H	40.30	10.44	25.48	48.22	54	5.78
2485	44.65	PK	H	23.25	2.99	26.89	44	74	30
2485	33.39	AV	H	23.25	2.99	26.89	32.74	54	21.26
1600	35.72	PK	H	24.26	2.75	26.43	36.3	74	37.7
1600	25.18	AV	H	24.26	2.75	26.43	25.76	54	28.24
500.45	42.06	QP	V	18.10	1.61	28.82	32.95	46.00	13.05
Middle Channel:5580 MHz									
5580	81.15	PK	H	32.40	5.59	0.00	119.14	N/A	N/A
5580	69.50	AV	H	32.40	5.59	0.00	107.49	N/A	N/A
5580	79.62	PK	V	32.40	5.59	0.00	117.61	N/A	N/A
5580	68.67	AV	V	32.40	5.59	0.00	106.66	N/A	N/A
11160	32.60	PK	H	37.73	8.21	26.05	52.49	74	21.51
11160	21.34	AV	H	37.73	8.21	26.05	41.23	54	12.77
16740	34.44	PK	H	41.07	10.44	25.57	60.38	74	13.62
16740	23.67	AV	H	41.07	10.44	25.57	49.61	54	4.39
2485	44.90	PK	H	23.25	2.99	26.89	44.25	74	29.75
2485	33.33	AV	H	23.25	2.99	26.89	32.68	54	21.32
4945	37.56	PK	H	31.22	5.06	26.88	46.96	74	27.04
4945	26.52	AV	H	31.22	5.06	26.88	35.92	54	18.08
500.45	42.53	QP	V	18.10	1.61	28.82	33.42	46.00	12.58
High Channel:5700 MHz									
5700	77.26	PK	H	32.54	5.70	0.00	115.5	N/A	N/A
5700	66.16	AV	H	32.54	5.70	0.00	104.4	N/A	N/A
5700	74.82	PK	V	32.54	5.70	0.00	113.06	N/A	N/A
5700	64.95	AV	V	32.54	5.70	0.00	103.19	N/A	N/A
5725	26.34	PK	H	32.57	5.72	0.00	64.63	74	9.37
5725	14.48	AV	H	32.57	5.72	0.00	52.77	54	1.23
11400	32.96	PK	H	37.92	8.22	26.03	53.07	74	20.93
11400	21.84	AV	H	37.92	8.22	26.03	41.95	54	12.05
17100	33.95	PK	H	42.36	10.60	25.80	61.11	74	12.89
17100	22.72	AV	H	42.36	10.60	25.80	49.88	54	4.12
2485	44.18	PK	H	23.25	2.99	26.89	43.53	74	30.47
2485	33.39	AV	H	23.25	2.99	26.89	32.74	54	21.26
4750	31.45	PK	H	30.60	5.15	26.87	40.33	74	33.67
4750	20.90	AV	H	30.60	5.15	26.87	29.78	54	24.22
500.45	42.29	QP	V	18.10	1.61	28.82	33.18	46.00	12.82

802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5500 MHz									
5500	73.31	PK	H	32.30	5.52	0.00	111.13	N/A	N/A
5500	62.57	AV	H	32.30	5.52	0.00	100.39	N/A	N/A
5500	72.25	PK	V	32.30	5.52	0.00	110.07	N/A	N/A
5500	61.04	AV	V	32.30	5.52	0.00	98.86	N/A	N/A
5470	26.77	PK	H	32.25	5.49	0.00	64.51	74	9.49
5470	14.60	AV	H	32.25	5.49	0.00	52.34	54	1.66
11000	32.16	PK	H	37.60	8.20	26.06	51.9	74	22.1
11000	21.74	AV	H	37.60	8.20	26.06	41.48	54	12.52
16500	33.89	PK	H	40.30	10.44	25.48	59.15	74	14.85
16500	22.83	AV	H	40.30	10.44	25.48	48.09	54	5.91
2485	44.29	PK	H	23.25	2.99	26.89	43.64	74	30.36
2485	33.32	AV	H	23.25	2.99	26.89	32.67	54	21.33
1234	38.02	PK	H	23.41	2.30	26.59	37.14	74	36.86
1234	27.05	AV	H	23.41	2.30	26.59	26.17	54	27.83
500.45	42.2	QP	V	18.10	1.61	28.82	33.09	46.00	12.91
Middle Channel:5600 MHz									
5600	73.07	PK	H	32.42	5.61	0.00	111.1	N/A	N/A
5600	62.28	AV	H	32.42	5.61	0.00	100.31	N/A	N/A
5600	72.24	PK	V	32.42	5.61	0.00	110.27	N/A	N/A
5600	60.97	AV	V	32.42	5.61	0.00	99	N/A	N/A
11200	32.45	PK	H	37.76	8.21	26.04	52.38	74	21.62
11200	21.59	AV	H	37.76	8.21	26.04	41.52	54	12.48
16800	35.11	PK	H	41.26	10.43	25.59	61.21	74	12.79
16800	24.52	AV	H	41.26	10.43	25.59	50.62	54	3.38
2485	44.62	PK	H	23.25	2.99	26.89	43.97	74	30.03
2485	33.28	AV	H	23.25	2.99	26.89	32.63	54	21.37
1452	36.29	PK	H	23.98	2.60	26.38	36.49	74	37.51
1452	26.31	AV	H	23.98	2.60	26.38	26.51	54	27.49
500.45	42.01	QP	V	18.10	1.61	28.82	32.90	46.00	13.10
Middle Channel:5700 MHz									
5700	72.72	PK	H	32.54	5.70	0.00	110.96	N/A	N/A
5700	62.02	AV	H	32.54	5.70	0.00	100.26	N/A	N/A
5700	71.17	PK	V	32.54	5.70	0.00	109.41	N/A	N/A
5700	60.44	AV	V	32.54	5.70	0.00	98.68	N/A	N/A
5725	26.04	PK	H	32.57	5.72	0.00	64.33	74	9.67
5725	14.80	AV	H	32.57	5.72	0.00	53.09	54	0.91
11400	32.58	PK	H	37.92	8.22	26.03	52.69	74	21.31
11400	22.18	AV	H	37.92	8.22	26.03	42.29	54	11.71
17100	33.51	PK	H	42.36	10.60	25.80	60.67	74	13.33
17100	22.96	AV	H	42.36	10.60	25.80	50.12	54	3.88
2485	44.33	PK	H	23.25	2.99	26.89	43.68	74	30.32
2485	33.85	AV	H	23.25	2.99	26.89	33.2	54	20.8
4915	36.96	PK	H	31.13	5.07	26.87	46.29	74	27.71
4915	26.87	AV	H	31.13	5.07	26.87	36.2	54	17.8
500.45	42.58	QP	V	18.10	1.61	28.82	33.47	46.00	12.53

802.11n ht40 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5510 MHz									
5510	73.55	PK	H	32.31	5.53	0.00	111.39	N/A	N/A
5510	62.29	AV	H	32.31	5.53	0.00	100.13	N/A	N/A
5510	72.51	PK	V	32.31	5.53	0.00	110.35	N/A	N/A
5510	61.46	AV	V	32.31	5.53	0.00	99.3	N/A	N/A
5470	26.64	PK	H	32.25	5.49	0.00	64.38	74	9.62
5470	14.87	AV	H	32.25	5.49	0.00	52.61	54	1.39
11020	32.34	PK	H	37.62	8.20	26.06	52.1	74	21.9
11020	21.13	AV	H	37.62	8.20	26.06	40.89	54	13.11
16530	33.86	PK	H	40.40	10.44	25.49	59.21	74	14.79
16530	23.43	AV	H	40.40	10.44	25.49	48.78	54	5.22
2485	45.05	PK	H	23.25	2.99	26.89	44.4	74	29.6
2485	33.57	AV	H	23.25	2.99	26.89	32.92	54	21.08
1495	36.12	PK	H	24.09	2.66	26.33	36.54	74	37.46
1495	25.38	AV	H	24.09	2.66	26.33	25.8	54	28.2
500.45	41.38	QP	V	18.10	1.61	28.82	32.27	46.00	13.73
Middle Channel:5590 MHz									
5590	78.09	PK	H	32.41	5.60	0.00	116.1	N/A	N/A
5590	67.25	AV	H	32.41	5.60	0.00	105.26	N/A	N/A
5590	74.99	PK	V	32.41	5.60	0.00	113	N/A	N/A
5590	64.60	AV	V	32.41	5.60	0.00	102.61	N/A	N/A
11180	32.46	PK	H	37.74	8.21	26.05	52.36	74	21.64
11180	21.83	AV	H	37.74	8.21	26.05	41.73	54	12.27
16770	35.10	PK	H	41.16	10.43	25.58	61.11	74	12.89
16770	24.58	AV	H	41.16	10.43	25.58	50.59	54	3.41
2485	44.85	PK	H	23.25	2.99	26.89	44.2	74	29.8
2485	32.98	AV	H	23.25	2.99	26.89	32.33	54	21.67
4252	37.99	PK	H	29.40	5.10	26.70	45.79	74	28.21
4252	27.10	AV	H	29.40	5.10	26.70	34.9	54	19.1
500.45	41.95	QP	V	18.10	1.61	28.82	32.84	46.00	13.16
Middle Channel:5670 MHz									
5670	73.30	PK	H	32.50	5.67	0.00	111.47	N/A	N/A
5670	62.52	AV	H	32.50	5.67	0.00	100.69	N/A	N/A
5670	72.36	PK	V	32.50	5.67	0.00	110.53	N/A	N/A
5670	61.39	AV	V	32.50	5.67	0.00	99.56	N/A	N/A
5725	26.72	PK	H	32.57	5.72	0.00	65.01	74	8.99
5725	14.34	AV	H	32.57	5.72	0.00	52.63	54	1.37
11340	32.52	PK	H	37.87	8.21	26.03	52.57	74	21.43
11340	21.69	AV	H	37.87	8.21	26.03	41.74	54	12.26
17010	35.18	PK	H	41.95	10.45	25.67	61.91	74	12.09
17010	24.65	AV	H	41.95	10.45	25.67	51.38	54	2.62
2485	45.68	PK	H	23.25	2.99	26.89	45.03	74	28.97
2485	33.29	AV	H	23.25	2.99	26.89	32.64	54	21.36
4252	37.57	PK	H	29.40	5.10	26.70	45.37	74	28.63
4252	27.22	AV	H	29.40	5.10	26.70	35.02	54	18.98
500.45	42.02	QP	V	18.10	1.61	28.82	32.91	46.00	13.09

802.11n ac80 mode

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5530 MHz									
5530	72.15	PK	H	32.34	5.55	0.00	110.04	N/A	N/A
5530	60.71	AV	H	32.34	5.55	0.00	98.6	N/A	N/A
5530	70.86	PK	V	32.34	5.55	0.00	108.75	N/A	N/A
5530	56.96	AV	V	32.34	5.55	0.00	94.85	N/A	N/A
5470	28.22	PK	H	32.25	5.49	0.00	65.96	74	8.04
5470	14.67	AV	H	32.25	5.49	0.00	52.41	54	1.59
5725	25.81	PK	H	32.57	5.72	0.00	64.1	74	9.9
5725	14.39	AV	H	32.57	5.72	0.00	52.68	54	1.32
11060	32.21	PK	H	37.65	8.20	26.06	52	74	22
11060	21.37	AV	H	37.65	8.20	26.06	41.16	54	12.84
16590	34.46	PK	H	40.59	10.44	25.51	59.98	74	14.02
16590	23.43	AV	H	40.59	10.44	25.51	48.95	54	5.05
2485	44.91	PK	H	23.25	2.99	26.89	44.26	74	29.74
2485	33.27	AV	H	23.25	2.99	26.89	32.62	54	21.38
500.45	40.49	QP	V	18.10	1.61	28.82	31.38	46.00	14.62
Middle Channel:5610 MHz									
5610	72.89	PK	H	32.43	5.62	0.00	110.94	N/A	N/A
5610	61.49	AV	H	32.43	5.62	0.00	99.54	N/A	N/A
5610	70.67	PK	V	32.43	5.62	0.00	108.72	N/A	N/A
5610	56.90	AV	V	32.43	5.62	0.00	94.95	N/A	N/A
5470	27.89	PK	H	32.25	5.49	0.00	65.63	74	8.37
5470	15.00	AV	H	32.25	5.49	0.00	52.74	54	1.26
5725	25.34	PK	H	32.57	5.72	0.00	63.63	74	10.37
5725	14.30	AV	H	32.57	5.72	0.00	52.59	54	1.41
11220	32.46	PK	H	37.78	8.21	26.04	52.41	74	21.59
11220	21.62	AV	H	37.78	8.21	26.04	41.57	54	12.43
16830	35.17	PK	H	41.36	10.43	25.60	61.36	74	12.64
16830	24.14	AV	H	41.36	10.43	25.60	50.33	54	3.67
2485	44.91	PK	H	23.25	2.99	26.89	44.26	74	29.74
2485	33.27	AV	H	23.25	2.99	26.89	32.62	54	21.38
500.45	41.08	QP	V	18.10	1.61	28.82	31.97	46.00	14.03

MIMO mode (Chain 0 & Chain 1) with beamforming:

5150MHz-5250MHz

802.11n ht20 mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	75.87	PK	H	31.83	5.27	0.00	112.97	N/A	N/A
5240	64.44	AV	H	31.83	5.27	0.00	101.54	N/A	N/A
5240	76.64	PK	V	31.83	5.27	0.00	113.74	N/A	N/A
5240	65.49	AV	V	31.83	5.27	0.00	102.59	N/A	N/A
5350	26.63	PK	V	32.03	5.37	0.00	64.03	74	9.97
5350	15.36	AV	V	32.03	5.37	0.00	52.76	54	1.24
10480	30.26	PK	V	37.40	7.84	26.35	49.15	74	24.85
10480	18.82	AV	V	37.40	7.84	26.35	37.71	54	16.29
15720	32.18	PK	V	39.44	10.24	25.30	56.56	74	17.44
15720	19.82	AV	V	39.44	10.24	25.30	44.2	54	9.8
1510	39.11	PK	V	24.12	2.68	26.34	39.57	74	34.43
1510	27.40	AV	V	24.12	2.68	26.34	27.86	54	26.14
2485	44.82	PK	V	23.25	2.99	26.89	44.17	74	29.83
2485	38.69	AV	V	23.25	2.99	26.89	38.04	54	15.96
500.45	42.4	QP	V	18.10	1.61	28.82	33.29	46.00	12.71

802.11n ht40 mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5230 MHz									
5230	74.70	PK	H	31.81	5.26	0.00	111.77	N/A	N/A
5230	63.55	AV	H	31.81	5.26	0.00	100.62	N/A	N/A
5230	74.53	PK	V	31.81	5.26	0.00	111.6	N/A	N/A
5230	63.39	AV	V	31.81	5.26	0.00	100.46	N/A	N/A
5350	28.60	PK	V	32.03	5.37	0.00	66	74	8
5350	15.84	AV	V	32.03	5.37	0.00	53.24	54	0.76
10460	30.96	PK	V	37.39	7.83	26.36	49.82	74	24.18
10460	19.18	AV	V	37.39	7.83	26.36	38.04	54	15.96
15690	31.61	PK	V	39.44	10.24	25.30	55.99	74	18.01
15690	20.29	AV	V	39.44	10.24	25.30	44.67	54	9.33
1495	37.46	PK	V	24.09	2.66	26.33	37.88	74	36.12
1495	25.33	AV	V	24.09	2.66	26.33	25.75	54	28.25
2485	43.40	PK	V	23.25	2.99	26.89	42.75	74	31.25
2485	37.82	AV	V	23.25	2.99	26.89	37.17	54	16.83
500.45	42.96	QP	V	18.10	1.61	28.82	33.85	46.00	12.15

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5210 MHz									
5210	67.04	PK	H	31.78	5.24	0.00	104.06	N/A	N/A
5210	56.61	AV	H	31.78	5.24	0.00	93.63	N/A	N/A
5210	67.62	PK	V	31.78	5.24	0.00	104.64	N/A	N/A
5210	57.62	AV	V	31.78	5.24	0.00	94.64	N/A	N/A
5150	28.14	PK	V	31.67	5.18	0.00	64.99	74	9.01
5150	15.57	AV	V	31.67	5.18	0.00	52.42	54	1.58
5350	27.87	PK	V	32.03	5.37	0.00	65.27	74	8.73
5350	15.29	AV	V	32.03	5.37	0.00	52.69	54	1.31
10420	30.69	PK	V	37.38	7.80	26.36	49.51	74	24.49
10420	19.45	AV	V	37.38	7.80	26.36	38.27	54	15.73
15630	31.73	PK	V	39.43	10.23	25.31	56.08	74	17.92
15630	20.41	AV	V	39.43	10.23	25.31	44.76	54	9.24
2485	45.51	PK	V	23.25	2.99	26.89	44.86	74	29.14
2485	38.16	AV	V	23.25	2.99	26.89	37.51	54	16.49
500.45	43.14	QP	V	18.10	1.61	28.82	34.03	46.00	11.97

5250MHz-5350MHz
802.11n ht20 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5260 MHz									
5260	71.72	PK	H	31.87	5.28	0.00	108.87	N/A	N/A
5260	59.27	AV	H	31.87	5.28	0.00	96.42	N/A	N/A
5260	73.58	PK	V	31.87	5.28	0.00	110.73	N/A	N/A
5260	61.33	AV	V	31.87	5.28	0.00	98.48	N/A	N/A
5150	26.60	PK	V	31.67	5.18	0.00	63.45	74	10.55
5150	14.69	AV	V	31.67	5.18	0.00	51.54	54	2.46
10520	31.14	PK	V	37.41	7.86	26.34	50.07	74	23.93
10520	20.42	AV	V	37.41	7.86	26.34	39.35	54	14.65
15780	32.74	PK	V	39.46	10.25	25.30	57.15	74	16.85
15780	22.48	AV	V	39.46	10.25	25.30	46.89	54	7.11
7015	37.33	PK	V	34.33	6.08	26.27	51.47	74	22.53
7015	27.44	AV	V	34.33	6.08	26.27	41.58	54	12.42
2845	43.31	PK	V	23.89	3.29	26.56	43.93	74	30.07
2845	36.46	AV	V	23.89	3.29	26.56	37.08	54	16.92
500.45	41.66	QP	V	18.10	1.61	28.82	32.55	46	13.45
Middle Channel:5280 MHz									
5280	71.69	PK	H	31.90	5.30	0.00	108.89	N/A	N/A
5280	61.27	AV	H	31.90	5.30	0.00	98.47	N/A	N/A
5280	73.09	PK	V	31.90	5.30	0.00	110.29	N/A	N/A
5280	62.31	AV	V	31.90	5.30	0.00	99.51	N/A	N/A
10560	32.84	PK	V	37.42	7.89	26.32	51.83	74	22.17
10560	22.25	AV	V	37.42	7.89	26.32	41.24	54	12.76
15840	32.71	PK	V	39.47	10.26	25.29	57.15	74	16.85
15840	22.26	AV	V	39.47	10.26	25.29	46.70	54	7.30
7045	35.72	PK	V	34.39	6.09	26.28	49.92	74	24.08
7045	24.99	AV	V	34.39	6.09	26.28	39.19	54	14.81
2485	40.94	PK	V	23.25	2.99	26.89	40.29	74	33.71
2485	35.18	AV	V	23.25	2.99	26.89	34.53	54	19.47
500.45	41.60	QP	V	18.10	1.61	28.82	32.49	46	13.51
High Channel:5320 MHz									
5320	71.24	PK	H	31.98	5.34	0.00	108.56	N/A	N/A
5320	60.28	AV	H	31.98	5.34	0.00	97.60	N/A	N/A
5320	73.00	PK	V	31.98	5.34	0.00	110.32	N/A	N/A
5320	60.75	AV	V	31.98	5.34	0.00	98.07	N/A	N/A
5350	27.26	PK	V	32.03	5.37	0.00	64.66	74	9.34
5350	15.25	AV	V	32.03	5.37	0.00	52.65	54	1.35
10640	29.78	PK	V	37.46	7.95	26.27	48.92	74	25.08
10640	19.56	AV	V	37.46	7.95	26.27	38.70	54	15.30
15960	31.32	PK	V	39.49	10.27	25.28	55.80	74	18.20
15960	20.70	AV	V	39.49	10.27	25.28	45.18	54	8.82
7090	34.01	PK	V	34.48	6.11	26.30	48.30	74	25.70
7090	22.55	AV	V	34.48	6.11	26.30	36.84	54	17.16
2485	41.65	PK	V	23.25	2.99	26.89	41.00	74	33.00
2485	34.85	AV	V	23.25	2.99	26.89	34.20	54	19.80
500.45	42.13	QP	V	18.10	1.61	28.82	33.02	46	12.98

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5270 MHz									
5270	76.22	PK	H	31.89	5.29	0.00	113.40	N/A	N/A
5270	64.98	AV	H	31.89	5.29	0.00	102.16	N/A	N/A
5270	77.33	PK	V	31.89	5.29	0.00	114.51	N/A	N/A
5270	66.41	AV	V	31.89	5.29	0.00	103.59	N/A	N/A
5150	26.64	PK	V	31.67	5.18	0.00	63.49	74	10.51
5150	14.03	AV	V	31.67	5.18	0.00	50.88	54	3.12
10540	29.48	PK	V	37.42	7.88	26.33	48.45	74	25.55
10540	20.11	AV	V	37.42	7.88	26.33	39.08	54	14.92
15810	31.25	PK	V	39.46	10.25	25.30	55.66	74	18.34
15810	21.79	AV	V	39.46	10.25	25.30	46.20	54	7.80
1600	35.45	PK	V	24.26	2.75	26.43	36.03	74	37.97
1600	25.16	AV	V	24.26	2.75	26.43	25.74	54	28.26
2485	40.60	PK	V	23.25	2.99	26.89	39.95	74	34.05
2485	35.04	AV	V	23.25	2.99	26.89	34.39	54	19.61
500.45	41.81	QP	V	18.10	1.61	28.82	32.70	46	13.30
High Channel:5310 MHz									
5310	74.09	PK	H	31.96	5.33	0.00	111.38	N/A	N/A
5310	63.23	AV	H	31.96	5.33	0.00	100.52	N/A	N/A
5310	74.82	PK	V	31.96	5.33	0.00	112.11	N/A	N/A
5310	64.36	AV	V	31.96	5.33	0.00	101.65	N/A	N/A
5350	29.70	PK	V	32.03	5.37	0.00	67.10	74	6.90
5350	15.45	AV	V	32.03	5.37	0.00	52.85	54	1.15
10620	29.38	PK	V	37.45	7.93	26.28	48.48	74	25.52
10620	18.33	AV	V	37.45	7.93	26.28	37.43	54	16.57
15930	31.28	PK	V	39.49	10.27	25.29	55.75	74	18.25
15930	19.81	AV	V	39.49	10.27	25.29	44.28	54	9.72
1600	34.74	PK	V	24.26	2.75	26.43	35.32	74	38.68
1600	23.71	AV	V	24.26	2.75	26.43	24.29	54	29.71
2485	37.66	PK	V	23.25	2.99	26.89	37.01	74	36.99
2485	32.74	AV	V	23.25	2.99	26.89	32.09	54	21.91
500.45	41.95	QP	V	18.10	1.61	28.82	32.84	46	13.16

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5290 MHz									
5290	61.52	PK	H	31.92	5.31	0.00	98.75	N/A	N/A
5290	51.49	AV	H	31.92	5.31	0.00	88.72	N/A	N/A
5290	70.14	PK	V	31.92	5.31	0.00	107.37	N/A	N/A
5290	57.68	AV	V	31.92	5.31	0.00	94.91	N/A	N/A
5150	26.60	PK	V	31.67	5.18	0.00	63.45	74	10.55
5150	14.47	AV	V	31.67	5.18	0.00	51.32	54	2.68
5350	26.84	PK	V	32.03	5.37	0.00	64.24	74	9.76
5350	15.48	AV	V	32.03	5.37	0.00	52.88	54	1.12
10580	30.73	PK	V	37.43	7.91	26.30	49.77	74	24.23
10580	19.60	AV	V	37.43	7.91	26.30	38.64	54	15.36
15870	32.56	PK	V	39.47	10.26	25.29	57.00	74	17.00
15870	22.19	AV	V	39.47	10.26	25.29	46.63	54	7.37
2845	41.76	PK	V	23.89	3.29	26.56	42.38	74	31.62
2845	35.93	AV	V	23.89	3.29	26.56	36.55	54	17.45
500.45	41.39	QP	V	18.10	1.61	28.82	32.28	46	13.72

5470MHz-5725MHz:
802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5500 MHz									
5500	72.70	PK	H	32.30	5.52	0.00	110.52	N/A	N/A
5500	62.06	AV	H	32.30	5.52	0.00	99.88	N/A	N/A
5500	71.05	PK	V	32.30	5.52	0.00	108.87	N/A	N/A
5500	60.22	AV	V	32.30	5.52	0.00	98.04	N/A	N/A
5470	26.90	PK	H	32.25	5.49	0.00	64.64	74	9.36
5470	15.66	AV	H	32.25	5.49	0.00	53.40	54	0.60
11000	32.18	PK	H	37.60	8.20	26.06	51.92	74	22.08
11000	21.22	AV	H	37.60	8.20	26.06	40.96	54	13.04
16500	33.00	PK	H	40.30	10.44	25.48	58.26	74	15.74
16500	23.03	AV	H	40.30	10.44	25.48	48.29	54	5.71
2485	44.76	PK	H	23.25	2.99	26.89	44.11	74	29.89
2485	32.76	AV	H	23.25	2.99	26.89	32.11	54	21.89
1600	35.12	PK	H	24.26	2.75	26.43	35.70	74	38.30
1600	25.10	AV	H	24.26	2.75	26.43	25.68	54	28.32
500.45	41.69	QP	V	18.10	1.61	28.82	32.58	46	13.42
Middle Channel:5600 MHz									
5600	73.92	PK	H	32.42	5.61	0	111.95	N/A	N/A
5600	61.93	AV	H	32.42	5.61	0	99.96	N/A	N/A
5600	71.25	PK	V	32.42	5.61	0	109.28	N/A	N/A
5600	60.63	AV	V	32.42	5.61	0	98.66	N/A	N/A
11200	32.21	PK	H	37.76	8.21	26.04	52.14	74	21.86
11200	21.39	AV	H	37.76	8.21	26.04	41.32	54	12.68
16800	34.25	PK	H	41.26	10.43	25.59	60.35	74	13.65
16800	24.38	AV	H	41.26	10.43	25.59	50.48	54	3.52
2485	44.47	PK	H	23.25	2.99	26.89	43.82	74	30.18
2485	32.58	AV	H	23.25	2.99	26.89	31.93	54	22.07
1600	34.96	PK	H	24.26	2.75	26.43	35.54	74	38.46
1600	24.96	AV	H	24.26	2.75	26.43	25.54	54	28.46
500.45	39.80	QP	V	18.1	1.61	28.82	30.69	46	15.31
Middle Channel:5700 MHz									
5700	72.74	PK	H	32.54	5.7	0	110.98	N/A	N/A
5700	62.37	AV	H	32.54	5.7	0	100.61	N/A	N/A
5700	71.11	PK	V	32.54	5.7	0	109.35	N/A	N/A
5700	60.49	AV	V	32.54	5.7	0	98.73	N/A	N/A
5725	25.93	PK	H	32.57	5.72	0	64.22	74	9.78
5725	14.38	AV	H	32.57	5.72	0	52.67	54	1.33
11400	33.54	PK	H	37.92	8.22	26.03	53.65	74	20.35
11400	22.15	AV	H	37.92	8.22	26.03	42.26	54	11.74
17100	33.85	PK	H	42.36	10.6	25.8	61.01	74	12.99
17100	23.92	AV	H	42.36	10.6	25.8	51.08	54	2.92
2485	44.25	PK	H	23.25	2.99	26.89	43.60	74	30.40
2485	33.37	AV	H	23.25	2.99	26.89	32.72	54	21.28
4915	37.30	PK	H	31.13	5.07	26.87	46.63	74	27.37
4915	26.74	AV	H	31.13	5.07	26.87	36.07	54	17.93
500.45	40.49	QP	V	18.1	1.61	28.82	31.38	46	14.62

802.11n ht40 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5510 MHz									
5510	71.98	PK	H	32.31	5.53	0	109.82	N/A	N/A
5510	61.08	AV	H	32.31	5.53	0	98.92	N/A	N/A
5510	70.33	PK	V	32.31	5.53	0	108.17	N/A	N/A
5510	60.24	AV	V	32.31	5.53	0	98.08	N/A	N/A
5470	27.26	PK	H	32.25	5.49	0	65.00	74	9.00
5470	14.77	AV	H	32.25	5.49	0	52.51	54	1.49
11020	31.74	PK	H	37.62	8.2	26.06	51.50	74	22.50
11020	21.72	AV	H	37.62	8.2	26.06	41.48	54	12.52
16530	34.11	PK	H	40.4	10.44	25.49	59.46	74	14.54
16530	23.08	AV	H	40.4	10.44	25.49	48.43	54	5.57
2485	44.49	PK	H	23.25	2.99	26.89	43.84	74	30.16
2485	32.74	AV	H	23.25	2.99	26.89	32.09	54	21.91
1495	36.79	PK	H	24.09	2.66	26.33	37.21	74	36.79
1495	25.34	AV	H	24.09	2.66	26.33	25.76	54	28.24
500.45	41.01	QP	V	18.1	1.61	28.82	31.90	46	14.10
Middle Channel:5590 MHz									
5590	71.63	PK	H	32.41	5.6	0	109.64	N/A	N/A
5590	61.30	AV	H	32.41	5.6	0	99.31	N/A	N/A
5590	70.64	PK	V	32.41	5.6	0	108.65	N/A	N/A
5590	60.38	AV	V	32.41	5.6	0	98.39	N/A	N/A
5725	25.85	PK	H	32.57	5.72	0	64.14	74	9.86
5725	13.73	AV	H	32.57	5.72	0	52.02	54	1.98
11180	31.30	PK	H	37.74	8.21	26.05	51.20	74	22.80
11180	22.43	AV	H	37.74	8.21	26.05	42.33	54	11.67
16770	34.96	PK	H	41.16	10.43	25.58	60.97	74	13.03
16770	24.05	AV	H	41.16	10.43	25.58	50.06	54	3.94
2485	44.40	PK	H	23.25	2.99	26.89	43.75	74	30.25
2485	32.32	AV	H	23.25	2.99	26.89	31.67	54	22.33
4915	37.41	PK	H	31.13	5.07	26.87	46.74	74	27.26
4915	26.08	AV	H	31.13	5.07	26.87	35.41	54	18.59
500.45	40.55	QP	V	18.1	1.61	28.82	31.44	46	14.56
Middle Channel:5670 MHz									
5670	71.35	PK	H	32.5	5.67	0	109.52	N/A	N/A
5670	61.14	AV	H	32.5	5.67	0	99.31	N/A	N/A
5670	70.34	PK	V	32.5	5.67	0	108.51	N/A	N/A
5670	59.90	AV	V	32.5	5.67	0	98.07	N/A	N/A
5725	25.32	PK	H	32.57	5.72	0	63.61	74	10.39
5725	13.85	AV	H	32.57	5.72	0	52.14	54	1.86
11340	32.14	PK	H	37.87	8.21	26.03	52.19	74	21.81
11340	22.43	AV	H	37.87	8.21	26.03	42.48	54	11.52
17010	34.67	PK	H	41.95	10.45	25.67	61.40	74	12.60
17010	23.54	AV	H	41.95	10.45	25.67	50.27	54	3.73
2485	44.02	PK	H	23.25	2.99	26.89	43.37	74	30.63
2485	32.80	AV	H	23.25	2.99	26.89	32.15	54	21.85
4035	37.85	PK	H	29.06	4.94	26.57	45.28	74	28.72
4035	26.64	AV	H	29.06	4.94	26.57	34.07	54	19.93
500.45	42.12	QP	V	18.1	1.61	28.82	33.01	46	12.99

802.11n ac80 mode

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5530 MHz									
5530	67.90	PK	H	32.34	5.55	0	105.79	N/A	N/A
5530	57.16	AV	H	32.34	5.55	0	95.05	N/A	N/A
5530	66.69	PK	V	32.34	5.55	0	104.58	N/A	N/A
5530	56.42	AV	V	32.34	5.55	0	94.31	N/A	N/A
5470	28.24	PK	H	32.25	5.49	0	65.98	74	8.02
5470	15.09	AV	H	32.25	5.49	0	52.83	54	1.17
11060	31.86	PK	H	37.65	8.2	26.06	51.65	74	22.35
11060	21.87	AV	H	37.65	8.2	26.06	41.66	54	12.34
16590	34.49	PK	H	40.59	10.44	25.51	60.01	74	13.99
16590	22.89	AV	H	40.59	10.44	25.51	48.41	54	5.59
2485	44.25	PK	H	23.25	2.99	26.89	43.60	74	30.40
2485	33.58	AV	H	23.25	2.99	26.89	32.93	54	21.07
500.45	41.67	QP	V	18.1	1.61	28.82	32.56	46	13.44
High Channel:5610 MHz									
5610	67.88	PK	H	32.43	5.62	0	105.93	N/A	N/A
5610	57.24	AV	H	32.43	5.62	0	95.29	N/A	N/A
5610	66.49	PK	V	32.43	5.62	0	104.54	N/A	N/A
5610	56.15	AV	V	32.43	5.62	0	94.20	N/A	N/A
5725	26.51	PK	H	32.57	5.72	0	64.80	74	9.20
5725	14.55	AV	H	32.57	5.72	0	52.84	54	1.16
11220	31.43	PK	H	37.78	8.21	26.04	51.38	74	22.62
11220	22.31	AV	H	37.78	8.21	26.04	42.26	54	11.74
16830	35.63	PK	H	41.36	10.43	25.6	61.82	74	12.18
16830	23.67	AV	H	41.36	10.43	25.6	49.86	54	4.14
2485	44.14	PK	H	23.25	2.99	26.89	43.49	74	30.51
2485	33.91	AV	H	23.25	2.99	26.89	33.26	54	20.74
500.45	41.34	QP	V	18.1	1.61	28.82	32.23	46	13.77

MIMO mode (Chain 0 & Chain 1 & Chain 2) with beamforming:

5150MHz-5250MHz

802.11n ht20 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
High Channel:5240 MHz									
5240	79.87	PK	H	31.83	5.27	0.00	116.97	N/A	N/A
5240	69.01	AV	H	31.83	5.27	0.00	106.11	N/A	N/A
5240	74.96	PK	V	31.83	5.27	0.00	112.06	N/A	N/A
5240	64.64	AV	V	31.83	5.27	0.00	101.74	N/A	N/A
5350	26.88	PK	H	32.03	5.37	0.00	64.28	74	9.72
5350	15.39	AV	H	32.03	5.37	0.00	52.79	54	1.21
10480	30.38	PK	H	37.40	7.84	26.35	49.27	74	24.73
10480	19.31	AV	H	37.40	7.84	26.35	38.2	54	15.8
15720	31.15	PK	H	39.44	10.24	25.30	55.53	74	18.47
15720	21.11	AV	H	39.44	10.24	25.30	45.49	54	8.51
1510	36.27	PK	H	24.12	2.68	26.34	36.73	74	37.27
1510	24.41	AV	H	24.12	2.68	26.34	24.87	54	29.13
2485	43.38	PK	H	23.25	2.99	26.89	42.73	74	31.27
2485	37.22	AV	H	23.25	2.99	26.89	36.57	54	17.43
500.45	42.72	QP	V	18.10	1.61	28.82	33.61	46.00	12.39

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
High Channel:5230 MHz									
5230	76.65	PK	H	31.81	5.26	0.00	113.72	N/A	N/A
5230	65.88	AV	H	31.81	5.26	0.00	102.95	N/A	N/A
5230	73.98	PK	V	31.81	5.26	0.00	111.05	N/A	N/A
5230	64.51	AV	V	31.81	5.26	0.00	101.58	N/A	N/A
5350	28.14	PK	H	32.03	5.37	0.00	65.54	74	8.46
5350	14.73	AV	H	32.03	5.37	0.00	52.13	54	1.87
10460	30.87	PK	H	37.39	7.83	26.36	49.73	74	24.27
10460	18.80	AV	H	37.39	7.83	26.36	37.66	54	16.34
15690	30.79	PK	H	39.44	10.24	25.30	55.17	74	18.83
15690	20.69	AV	H	39.44	10.24	25.30	45.07	54	8.93
1510	34.37	PK	H	24.12	2.68	26.34	34.83	74	39.17
1510	21.48	AV	H	24.12	2.68	26.34	21.94	54	32.06
2485	44.38	PK	H	23.25	2.99	26.89	43.73	74	30.27
2485	38.26	AV	H	23.25	2.99	26.89	37.61	54	16.39
500.45	42.98	QP	V	18.10	1.61	28.82	33.87	46.00	12.13

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5210 MHz									
5210	71.20	PK	H	31.78	5.24	0.00	108.22	N/A	N/A
5210	23.03	AV	H	31.78	5.24	0.00	60.05	N/A	N/A
5210	68.72	PK	V	31.78	5.24	0.00	105.74	N/A	N/A
5210	58.03	AV	V	31.78	5.24	0.00	95.05	N/A	N/A
5150	29.05	PK	H	31.67	5.18	0.00	65.9	74	8.1
5150	15.80	AV	H	31.67	5.18	0.00	52.65	54	1.35
5350	29.01	PK	H	32.03	5.37	0.00	66.41	74	7.59
5350	15.92	AV	H	32.03	5.37	0.00	53.32	54	0.68
10420	30.80	PK	H	37.38	7.80	26.36	49.62	74	24.38
10420	19.00	AV	H	37.38	7.80	26.36	37.82	54	16.18
15630	31.57	PK	H	39.43	10.23	25.31	55.92	74	18.08
15630	21.28	AV	H	39.43	10.23	25.31	45.63	54	8.37
2485	45.02	PK	H	23.25	2.99	26.89	44.37	74	29.63
2485	39.12	AV	H	23.25	2.99	26.89	38.47	54	15.53
500.45	43.42	QP	V	18.10	1.61	28.82	34.31	46.00	11.69

5250MHz-5350MHz
802.11n ht20 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5260 MHz									
5260	71.68	PK	H	31.87	5.28	0	108.83	N/A	N/A
5260	59.53	AV	H	31.87	5.28	0	96.68	N/A	N/A
5260	73.38	PK	V	31.87	5.28	0	110.53	N/A	N/A
5260	60.96	AV	V	31.87	5.28	0	98.11	N/A	N/A
5150	26.25	PK	V	31.67	5.18	0	63.10	74	10.90
5150	15.07	AV	V	31.67	5.18	0	51.92	54	2.08
10520	31.13	PK	V	37.41	7.86	26.34	50.06	74	23.94
10520	20.93	AV	V	37.41	7.86	26.34	39.86	54	14.14
15780	32.77	PK	V	39.46	10.25	25.3	57.18	74	16.82
15780	22.40	AV	V	39.46	10.25	25.3	46.81	54	7.19
7015	37.24	PK	V	34.33	6.08	26.27	51.38	74	22.62
7015	27.61	AV	V	34.33	6.08	26.27	41.75	54	12.25
2845	43.15	PK	V	23.89	3.29	26.56	43.77	74	30.23
2845	36.27	AV	V	23.89	3.29	26.56	36.89	54	17.11
500.45	43.32	QP	V	18.1	1.61	28.82	34.21	46	11.79
Middle Channel:5280 MHz									
5280	71.92	PK	H	31.9	5.3	0	109.12	N/A	N/A
5280	61.40	AV	H	31.9	5.3	0	98.60	N/A	N/A
5280	72.80	PK	V	31.9	5.3	0	110.00	N/A	N/A
5280	61.72	AV	V	31.9	5.3	0	98.92	N/A	N/A
10560	33.10	PK	V	37.42	7.89	26.32	52.09	74	21.91
10560	22.79	AV	V	37.42	7.89	26.32	41.78	54	12.22
15840	32.66	PK	V	39.47	10.26	25.29	57.10	74	16.90
15840	22.11	AV	V	39.47	10.26	25.29	46.55	54	7.45
7045	35.66	PK	V	34.39	6.09	26.28	49.86	74	24.14
7045	24.98	AV	V	34.39	6.09	26.28	39.18	54	14.82
2485	41.62	PK	V	23.25	2.99	26.89	40.97	74	33.03
2485	35.58	AV	V	23.25	2.99	26.89	34.93	54	19.07
500.45	42.12	QP	V	18.1	1.61	28.82	33.01	46	12.99
High Channel:5320 MHz									
5320	71.29	PK	H	31.98	5.34	0	108.61	N/A	N/A
5320	60.45	AV	H	31.98	5.34	0	97.77	N/A	N/A
5320	73.28	PK	V	31.98	5.34	0	110.60	N/A	N/A
5320	60.70	AV	V	31.98	5.34	0	98.02	N/A	N/A
5350	26.97	PK	V	32.03	5.37	0	64.37	74	9.63
5350	15.33	AV	V	32.03	5.37	0	52.73	54	1.27
10640	30.00	PK	V	37.46	7.95	26.27	49.14	74	24.86
10640	19.71	AV	V	37.46	7.95	26.27	38.85	54	15.15
15960	31.26	PK	V	39.49	10.27	25.28	55.74	74	18.26
15960	20.59	AV	V	39.49	10.27	25.28	45.07	54	8.93
7090	34.07	PK	V	34.48	6.11	26.3	48.36	74	25.64
7090	22.70	AV	V	34.48	6.11	26.3	36.99	54	17.01
2485	41.35	PK	V	23.25	2.99	26.89	40.70	74	33.30
2485	35.15	AV	V	23.25	2.99	26.89	34.50	54	19.50
500.45	42.67	QP	V	18.1	1.61	28.82	33.56	46	12.44

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5270 MHz									
5270	75.91	PK	H	31.89	5.29	0	113.09	N/A	N/A
5270	64.95	AV	H	31.89	5.29	0	102.13	N/A	N/A
5270	77.54	PK	V	31.89	5.29	0	114.72	N/A	N/A
5270	66.21	AV	V	31.89	5.29	0	103.39	N/A	N/A
5150	26.98	PK	V	31.67	5.18	0	63.83	74	10.17
5150	14.04	AV	V	31.67	5.18	0	50.89	54	3.11
10540	29.17	PK	V	37.42	7.88	26.33	48.14	74	25.86
10540	19.90	AV	V	37.42	7.88	26.33	38.87	54	15.13
15810	31.25	PK	V	39.46	10.25	25.3	55.66	74	18.34
15810	21.41	AV	V	39.46	10.25	25.3	45.82	54	8.18
1600	35.96	PK	V	24.26	2.75	26.43	36.54	74	37.46
1600	25.02	AV	V	24.26	2.75	26.43	25.60	54	28.40
2485	40.95	PK	V	23.25	2.99	26.89	40.30	74	33.70
2485	35.20	AV	V	23.25	2.99	26.89	34.55	54	19.45
500.45	42.38	QP	V	18.1	1.61	28.82	33.27	46	12.73
High Channel:5310 MHz									
5310	74.14	PK	H	31.96	5.33	0	111.43	N/A	N/A
5310	62.73	AV	H	31.96	5.33	0	100.02	N/A	N/A
5310	74.89	PK	V	31.96	5.33	0	112.18	N/A	N/A
5310	64.92	AV	V	31.96	5.33	0	102.21	N/A	N/A
5350	29.80	PK	V	32.03	5.37	0	67.20	74	6.80
5350	15.66	AV	V	32.03	5.37	0	53.06	54	0.94
10620	29.45	PK	V	37.45	7.93	26.28	48.55	74	25.45
10620	18.85	AV	V	37.45	7.93	26.28	37.95	54	16.05
15930	31.68	PK	V	39.49	10.27	25.29	56.15	74	17.85
15930	19.39	AV	V	39.49	10.27	25.29	43.86	54	10.14
1600	34.28	PK	V	24.26	2.75	26.43	34.86	74	39.14
1600	24.03	AV	V	24.26	2.75	26.43	24.61	54	29.39
2485	37.58	PK	V	23.25	2.99	26.89	36.93	74	37.07
2485	32.30	AV	V	23.25	2.99	26.89	31.65	54	22.35
500.45	41.28	QP	V	18.1	1.61	28.82	32.17	46	13.83

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5290 MHz									
5290	61.18	PK	H	31.92	5.31	0	98.41	N/A	N/A
5290	51.52	AV	H	31.92	5.31	0	88.75	N/A	N/A
5290	70.00	PK	V	31.92	5.31	0	107.23	N/A	N/A
5290	57.63	AV	V	31.92	5.31	0	94.86	N/A	N/A
5150	26.43	PK	V	31.67	5.18	0	63.28	74	10.72
5150	14.40	AV	V	31.67	5.18	0	51.25	54	2.75
5350	26.77	PK	V	32.03	5.37	0	64.17	74	9.83
5350	15.12	AV	V	32.03	5.37	0	52.52	54	1.48
10580	30.42	PK	V	37.43	7.91	26.3	49.46	74	24.54
10580	19.92	AV	V	37.43	7.91	26.3	38.96	54	15.04
15870	32.25	PK	V	39.47	10.26	25.29	56.69	74	17.31
15870	21.65	AV	V	39.47	10.26	25.29	46.09	54	7.91
2845	41.86	PK	V	23.89	3.29	26.56	42.48	74	31.52
2845	35.73	AV	V	23.89	3.29	26.56	36.35	54	17.65
500.45	41.56	QP	V	18.1	1.61	28.82	32.45	46	13.55

5470MHz-5725MHz:
802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5500 MHz									
5500	71.71	PK	H	32.3	5.52	0	109.53	N/A	N/A
5500	61.54	AV	H	32.3	5.52	0	99.36	N/A	N/A
5500	68.79	PK	V	32.3	5.52	0	106.61	N/A	N/A
5500	57.48	AV	V	32.3	5.52	0	95.30	N/A	N/A
5470	26.80	PK	H	32.25	5.49	0	64.54	74	9.46
5470	14.45	AV	H	32.25	5.49	0	52.19	54	1.81
11000	32.74	PK	H	37.6	8.2	26.06	52.48	74	21.52
11000	22.36	AV	H	37.6	8.2	26.06	42.10	54	11.90
16500	32.78	PK	H	40.3	10.44	25.48	58.04	74	15.96
16500	22.30	AV	H	40.3	10.44	25.48	47.56	54	6.44
2485	44.75	PK	H	23.25	2.99	26.89	44.10	74	29.90
2485	34.44	AV	H	23.25	2.99	26.89	33.79	54	20.21
1542	34.53	PK	H	24.17	2.7	26.37	35.03	74	38.97
1542	25.54	AV	H	24.17	2.7	26.37	26.04	54	27.96
500.45	42.56	QP	V	18.1	1.61	28.82	33.45	46	12.55
Middle Channel:5600 MHz									
5600	79.41	PK	H	32.42	5.61	0	117.44	N/A	N/A
5600	68.78	AV	H	32.42	5.61	0	106.81	N/A	N/A
5600	75.62	PK	V	32.42	5.61	0	113.65	N/A	N/A
5600	64.77	AV	V	32.42	5.61	0	102.80	N/A	N/A
11200	32.83	PK	H	37.76	8.21	26.04	52.76	74	21.24
11200	22.63	AV	H	37.76	8.21	26.04	42.56	54	11.44
16800	34.29	PK	H	41.26	10.43	25.59	60.39	74	13.61
16800	24.16	AV	H	41.26	10.43	25.59	50.26	54	3.74
2485	44.50	PK	H	23.25	2.99	26.89	43.85	74	30.15
2485	34.43	AV	H	23.25	2.99	26.89	33.78	54	20.22
1600	35.32	PK	H	24.26	2.75	26.43	35.90	74	38.10
1600	24.55	AV	H	24.26	2.75	26.43	25.13	54	28.87
500.45	42.50	QP	V	18.1	1.61	28.82	33.39	46	12.61
Middle Channel:5700 MHz									
5700	71.87	PK	H	32.54	5.7	0	110.11	N/A	N/A
5700	61.79	AV	H	32.54	5.7	0	100.03	N/A	N/A
5700	68.74	PK	V	32.54	5.7	0	106.98	N/A	N/A
5700	57.39	AV	V	32.54	5.7	0	95.63	N/A	N/A
5725	25.94	PK	H	32.57	5.72	0	64.23	74	9.77
5725	14.43	AV	H	32.57	5.72	0	52.72	54	1.28
11400	33.29	PK	H	37.92	8.22	26.03	53.40	74	20.60
11400	23.24	AV	H	37.92	8.22	26.03	43.35	54	10.65
17100	32.93	PK	H	42.36	10.6	25.8	60.09	74	13.91
17100	23.57	AV	H	42.36	10.6	25.8	50.73	54	3.27
2485	44.95	PK	H	23.25	2.99	26.89	44.30	74	29.70
2485	34.95	AV	H	23.25	2.99	26.89	34.30	54	19.70
1621	34.31	PK	H	24.29	2.76	26.45	34.91	74	39.09
1621	25.26	AV	H	24.29	2.76	26.45	25.86	54	28.14
500.45	42.32	QP	V	18.1	1.61	28.82	33.21	46	12.79

802.11n ht40 Mode:

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading	Detector	Polar	Factor	loss	Gain	Amplitude	(dBμV/m)	(dB)
(dBμV)	(PK/QP/AV)	(H/V)	(dB)	(dB)	(dB)	(dB)	(dBμV/m)		
Low Channel:5510 MHz									
5510	72.54	PK	H	32.31	5.53	0	110.38	N/A	N/A
5510	61.87	AV	H	32.31	5.53	0	99.71	N/A	N/A
5510	69.75	PK	V	32.31	5.53	0	107.59	N/A	N/A
5510	59.60	AV	V	32.31	5.53	0	97.44	N/A	N/A
5470	27.25	PK	H	32.25	5.49	0	64.99	74	9.01
5470	14.51	AV	H	32.25	5.49	0	52.25	54	1.75
11020	32.98	PK	H	37.62	8.2	26.06	52.74	74	21.26
11020	22.42	AV	H	37.62	8.2	26.06	42.18	54	11.82
16530	33.36	PK	H	40.4	10.44	25.49	58.71	74	15.29
16530	22.94	AV	H	40.4	10.44	25.49	48.29	54	5.71
2485	44.80	PK	H	23.25	2.99	26.89	44.15	74	29.85
2485	34.45	AV	H	23.25	2.99	26.89	33.80	54	20.20
1495	35.77	PK	H	24.09	2.66	26.33	36.19	74	37.81
1495	25.39	AV	H	24.09	2.66	26.33	25.81	54	28.19
500.45	42.85	QP	V	18.1	1.61	28.82	33.74	46	12.26
Middle Channel:5590 MHz									
5590	72.14	PK	H	32.41	5.6	0	110.15	N/A	N/A
5590	61.67	AV	H	32.41	5.6	0	99.68	N/A	N/A
5590	70.25	PK	V	32.41	5.6	0	108.26	N/A	N/A
5590	60.41	AV	V	32.41	5.6	0	98.42	N/A	N/A
5725	27.25	PK	H	32.57	5.72	0	65.54	74	8.46
5725	13.90	AV	H	32.57	5.72	0	52.19	54	1.81
11180	33.66	PK	H	37.74	8.21	26.05	53.56	74	20.44
11180	23.75	AV	H	37.74	8.21	26.05	43.65	54	10.35
16770	35.47	PK	H	41.16	10.43	25.58	61.48	74	12.52
16770	24.39	AV	H	41.16	10.43	25.58	50.40	54	3.60
2485	44.76	PK	H	23.25	2.99	26.89	44.11	74	29.89
2485	34.77	AV	H	23.25	2.99	26.89	34.12	54	19.88
1600	35.76	PK	H	24.26	2.75	26.43	36.34	74	37.66
1600	25.36	AV	H	24.26	2.75	26.43	25.94	54	28.06
500.45	42.88	QP	V	18.1	1.61	28.82	33.77	46	12.23
Middle Channel:5670 MHz									
5670	73.05	PK	H	32.5	5.67	0	111.22	N/A	N/A
5670	62.37	AV	H	32.5	5.67	0	100.54	N/A	N/A
5670	69.67	PK	V	32.5	5.67	0	107.84	N/A	N/A
5670	58.91	AV	V	32.5	5.67	0	97.08	N/A	N/A
5725	27.74	PK	H	32.57	5.72	0	66.03	74	7.97
5725	14.86	AV	H	32.57	5.72	0	53.15	54	0.85
11340	34.39	PK	H	37.87	8.21	26.03	54.44	74	19.56
11340	22.37	AV	H	37.87	8.21	26.03	42.42	54	11.58
17010	34.88	PK	H	41.95	10.45	25.67	61.61	74	12.39
17010	24.58	AV	H	41.95	10.45	25.67	51.31	54	2.69
2485	44.40	PK	H	23.25	2.99	26.89	43.75	74	30.25
2485	34.28	AV	H	23.25	2.99	26.89	33.63	54	20.37
1600	35.70	PK	H	24.26	2.75	26.43	36.28	74	37.72
1600	24.54	AV	H	24.26	2.75	26.43	25.12	54	28.88
500.45	42.71	QP	V	18.1	1.61	28.82	33.60	46	12.40

802.11n ac80 mode

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5530 MHz									
5530	71.49	PK	H	32.34	5.55	0	109.38	N/A	N/A
5530	61.25	AV	H	32.34	5.55	0	99.14	N/A	N/A
5530	66.98	PK	V	32.34	5.55	0	104.87	N/A	N/A
5530	56.91	AV	V	32.34	5.55	0	94.80	N/A	N/A
5470	28.41	PK	H	32.25	5.49	0	66.15	74	7.85
5470	14.81	AV	H	32.25	5.49	0	52.55	54	1.45
11060	32.82	PK	H	37.65	8.2	26.06	52.61	74	21.39
11060	22.45	AV	H	37.65	8.2	26.06	42.24	54	11.76
16590	33.64	PK	H	40.59	10.44	25.51	59.16	74	14.84
16590	24.17	AV	H	40.59	10.44	25.51	49.69	54	4.31
2485	44.83	PK	H	23.25	2.99	26.89	44.18	74	29.82
2485	34.63	AV	H	23.25	2.99	26.89	33.98	54	20.02
500.45	42.35	QP	V	18.1	1.61	28.82	33.24	46	12.76
Middle Channel:5610 MHz									
5610	72.22	PK	H	32.43	5.62	0	110.27	N/A	N/A
5610	60.87	AV	H	32.43	5.62	0	98.92	N/A	N/A
5610	66.69	PK	V	32.43	5.62	0	104.74	N/A	N/A
5610	57.17	AV	V	32.43	5.62	0	95.22	N/A	N/A
5725	53.13	PK	H	32.57	5.72	26.63	64.79	74	9.21
5725	40.85	AV	H	32.57	5.72	26.63	52.51	54	1.49
11220	32.61	PK	H	37.78	8.21	26.04	52.56	74	21.44
11220	22.88	AV	H	37.78	8.21	26.04	42.83	54	11.17
16830	35.02	PK	H	41.36	10.43	25.6	61.21	74	12.79
16830	24.40	AV	H	41.36	10.43	25.6	50.59	54	3.41
2485	45.40	PK	H	23.25	2.99	26.89	44.75	74	29.25
2485	34.70	AV	H	23.25	2.99	26.89	34.05	54	19.95
500.45	42.85	QP	V	18.1	1.61	28.82	33.74	46	12.26

MIMO mode (Chain 0 & Chain 1 & Chain 2 & Chain 3) with beamforming:

5150MHz-5250MHz

802.11n ht20 mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5240 MHz									
5240	78.28	PK	H	31.83	5.27	0.00	115.38	N/A	N/A
5240	66.30	AV	H	31.83	5.27	0.00	103.4	N/A	N/A
5240	76.59	PK	V	31.83	5.27	0.00	113.69	N/A	N/A
5240	65.22	AV	V	31.83	5.27	0.00	102.32	N/A	N/A
5350	27.59	PK	H	32.03	5.37	0.00	64.99	74	9.01
5350	15.62	AV	H	32.03	5.37	0.00	53.02	54	0.98
10480	31.31	PK	H	37.40	7.84	26.35	50.2	74	23.8
10480	19.10	AV	H	37.40	7.84	26.35	37.99	54	16.01
15720	32.18	PK	H	39.44	10.24	25.30	56.56	74	17.44
15720	20.25	AV	H	39.44	10.24	25.30	44.63	54	9.37
1510	39.84	PK	H	24.12	2.68	26.34	40.3	74	33.7
1510	29.01	AV	H	24.12	2.68	26.34	29.47	54	24.53
2485	44.52	PK	H	23.25	2.99	26.89	43.87	74	30.13
2485	38.23	AV	H	23.25	2.99	26.89	37.58	54	16.42
500.45	42.49	QP	V	18.10	1.61	28.82	33.38	46.00	12.62

802.11n ht40 mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
High Channel:5230 MHz									
5230	76.49	PK	H	31.81	5.26	0.00	113.56	N/A	N/A
5230	65.87	AV	H	31.81	5.26	0.00	102.94	N/A	N/A
5230	75.01	PK	V	31.81	5.26	0.00	112.08	N/A	N/A
5230	64.90	AV	V	31.81	5.26	0.00	101.97	N/A	N/A
5350	29.18	PK	H	32.03	5.37	0.00	66.58	74	7.42
5350	14.88	AV	H	32.03	5.37	0.00	52.28	54	1.72
10460	31.33	PK	H	37.39	7.83	26.36	50.19	74	23.81
10460	20.12	AV	H	37.39	7.83	26.36	38.98	54	15.02
15690	32.36	PK	H	39.44	10.24	25.30	56.74	74	17.26
15690	21.30	AV	H	39.44	10.24	25.30	45.68	54	8.32
1500	40.69	PK	H	24.10	2.67	26.33	41.13	74	32.87
1500	28.01	AV	H	24.10	2.67	26.33	28.45	54	25.55
2485	44.34	PK	H	23.25	2.99	26.89	43.69	74	30.31
2485	38.62	AV	H	23.25	2.99	26.89	37.97	54	16.03
500.45	42.93	QP	V	18.10	1.61	28.82	33.82	46.00	12.18

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5210 MHz									
5210	72.08	PK	H	31.78	5.24	0.00	109.1	N/A	N/A
5210	60.96	AV	H	31.78	5.24	0.00	97.98	N/A	N/A
5210	70.58	PK	V	31.78	5.24	0.00	107.6	N/A	N/A
5210	59.85	AV	V	31.78	5.24	0.00	96.87	N/A	N/A
5150	29.45	PK	H	31.67	5.18	0.00	66.3	74	7.7
5150	15.45	AV	H	31.67	5.18	0.00	52.3	54	1.7
5350	28.14	PK	H	32.03	5.37	0.00	65.54	74	8.46
5350	14.79	AV	H	32.03	5.37	0.00	52.19	54	1.81
10420	31.81	PK	H	37.38	7.80	26.36	50.63	74	23.37
10420	20.88	AV	H	37.38	7.80	26.36	39.7	54	14.3
15630	32.24	PK	H	39.43	10.23	25.31	56.59	74	17.41
15630	21.82	AV	H	39.43	10.23	25.31	46.17	54	7.83
2485	42.33	PK	H	23.25	2.99	26.89	41.68	74	32.32
2485	39.01	AV	H	23.25	2.99	26.89	38.36	54	15.64
500.45	43.1	QP	V	18.10	1.61	28.82	33.99	46.00	12.01

5250MHz-5350MHz
802.11n ht20 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5260 MHz									
5260	72.97	PK	H	31.87	5.28	0	110.12	N/A	N/A
5260	61.40	AV	H	31.87	5.28	0	98.55	N/A	N/A
5260	70.27	PK	V	31.87	5.28	0	107.42	N/A	N/A
5260	58.90	AV	V	31.87	5.28	0	96.05	N/A	N/A
5150	28.63	PK	H	31.67	5.18	0	65.48	74	8.52
5150	14.71	AV	H	31.67	5.18	0	51.56	54	2.44
10520	33.05	PK	H	37.41	7.86	26.34	51.98	74	22.02
10520	22.92	AV	H	37.41	7.86	26.34	41.85	54	12.15
15780	32.97	PK	H	39.46	10.25	25.3	57.38	74	16.62
15780	22.68	AV	H	39.46	10.25	25.3	47.09	54	6.91
4250	36.38	PK	H	29.4	5.1	26.7	44.18	74	29.82
4250	25.04	AV	H	29.4	5.1	26.7	32.84	54	21.16
2845	42.91	PK	H	23.89	3.29	26.56	43.53	74	30.47
2845	32.82	AV	H	23.89	3.29	26.56	33.44	54	20.56
500.45	41.01	QP	V	18.1	1.61	28.82	31.90	46	14.10
Middle Channel:5280 MHz									
5280	73.03	PK	H	31.9	5.3	0	110.23	N/A	N/A
5280	61.89	AV	H	31.9	5.3	0	99.09	N/A	N/A
5280	70.17	PK	V	31.9	5.3	0	107.37	N/A	N/A
5280	59.15	AV	V	31.9	5.3	0	96.35	N/A	N/A
10560	32.91	PK	H	37.42	7.89	26.32	51.90	74	22.10
10560	21.90	AV	H	37.42	7.89	26.32	40.89	54	13.11
15840	32.22	PK	H	39.47	10.26	25.29	56.66	74	17.34
15840	22.32	AV	H	39.47	10.26	25.29	46.76	54	7.24
7045	35.54	PK	H	34.39	6.09	26.28	49.74	74	24.26
7045	24.65	AV	H	34.39	6.09	26.28	38.85	54	15.15
2485	41.26	PK	H	23.25	2.99	26.89	40.61	74	33.39
2485	30.82	AV	H	23.25	2.99	26.89	30.17	54	23.83
500.45	41.42	QP	V	18.1	1.61	28.82	32.31	46	13.69
High Channel:5320 MHz									
5320	72.64	PK	H	31.98	5.34	0	109.96	N/A	N/A
5320	61.31	AV	H	31.98	5.34	0	98.63	N/A	N/A
5320	70.67	PK	V	31.98	5.34	0	107.99	N/A	N/A
5320	59.34	AV	V	31.98	5.34	0	96.66	N/A	N/A
5350	26.49	PK	H	32.03	5.37	0	63.89	74	10.11
5350	15.19	AV	H	32.03	5.37	0	52.59	54	1.41
10640	30.03	PK	H	37.46	7.95	26.27	49.17	74	24.83
10640	19.69	AV	H	37.46	7.95	26.27	38.83	54	15.17
15960	30.96	PK	H	39.49	10.27	25.28	55.44	74	18.56
15960	20.25	AV	H	39.49	10.27	25.28	44.73	54	9.27
7090	34.08	PK	H	34.48	6.11	26.3	48.37	74	25.63
7090	22.55	AV	H	34.48	6.11	26.3	36.84	54	17.16
2485	41.55	PK	H	23.25	2.99	26.89	40.90	74	33.10
2485	34.79	AV	H	23.25	2.99	26.89	34.14	54	19.86
500.45	41.05	QP	V	18.1	1.61	28.82	31.94	46	14.06

802.11n ht40 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Low Channel:5270 MHz									
5270	72.95	PK	H	31.89	5.29	0	110.13	N/A	N/A
5270	62.37	AV	H	31.89	5.29	0	99.55	N/A	N/A
5270	70.88	PK	V	31.89	5.29	0	108.06	N/A	N/A
5270	59.67	AV	V	31.89	5.29	0	96.85	N/A	N/A
5150	28.07	PK	H	31.67	5.18	0	64.92	74	9.08
5150	14.99	AV	H	31.67	5.18	0	51.84	54	2.16
10540	29.21	PK	H	37.42	7.88	26.33	48.18	74	25.82
10540	20.00	AV	H	37.42	7.88	26.33	38.97	54	15.03
15810	31.44	PK	H	39.46	10.25	25.3	55.85	74	18.15
15810	21.84	AV	H	39.46	10.25	25.3	46.25	54	7.75
1458	36.44	PK	H	23.99	2.61	26.37	36.67	74	37.33
1458	25.82	AV	H	23.99	2.61	26.37	26.05	54	27.95
2485	40.82	PK	H	23.25	2.99	26.89	40.17	74	33.83
2485	35.02	AV	H	23.25	2.99	26.89	34.37	54	19.63
500.45	42.65	QP	V	18.1	1.61	28.82	33.54	46	12.46
High Channel:5310 MHz									
5310	72.33	PK	H	31.96	5.33	0	109.62	N/A	N/A
5310	60.98	AV	H	31.96	5.33	0	98.27	N/A	N/A
5310	71.16	PK	V	31.96	5.33	0	108.45	N/A	N/A
5310	59.97	AV	V	31.96	5.33	0	97.26	N/A	N/A
5350	27.74	PK	H	32.03	5.37	0	65.14	74	8.86
5350	15.20	AV	H	32.03	5.37	0	52.60	54	1.40
10620	32.84	PK	H	37.45	7.93	26.28	51.94	74	22.06
10620	21.99	AV	H	37.45	7.93	26.28	41.09	54	12.91
15930	31.75	PK	H	39.49	10.27	25.29	56.22	74	17.78
15930	21.99	AV	H	39.49	10.27	25.29	46.46	54	7.54
1352	35.06	PK	H	23.72	2.47	26.47	34.78	74	39.22
1352	24.38	AV	H	23.72	2.47	26.47	24.10	54	29.90
2485	41.90	PK	H	23.25	2.99	26.89	41.25	74	32.75
2485	31.48	AV	H	23.25	2.99	26.89	30.83	54	23.17
500.45	42.23	QP	V	18.1	1.61	28.82	33.12	46	12.88

802.11n ac80 mode:

Frequency	Receiver		Rx Antenna		Cable loss	Amplifier Gain	Corrected Amplitude	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	(dB)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
Middle Channel:5290 MHz									
5290	72.15	PK	H	31.92	5.31	0	109.38	N/A	N/A
5290	60.14	AV	H	31.92	5.31	0	97.37	N/A	N/A
5290	70.39	PK	V	31.92	5.31	0	107.62	N/A	N/A
5290	58.18	AV	V	31.92	5.31	0	95.41	N/A	N/A
5150	26.28	PK	H	31.67	5.18	0	63.13	74	10.87
5150	14.35	AV	H	31.67	5.18	0	51.20	54	2.80
5350	27.20	PK	H	32.03	5.37	0	64.60	74	9.40
5350	14.86	AV	H	32.03	5.37	0	52.26	54	1.74
10580	33.04	PK	H	37.43	7.91	26.3	52.08	74	21.92
10580	22.06	AV	H	37.43	7.91	26.3	41.10	54	12.90
15870	32.11	PK	H	39.47	10.26	25.29	56.55	74	17.45
15870	21.61	AV	H	39.47	10.26	25.29	46.05	54	7.95
2845	40.24	PK	H	23.89	3.29	26.56	40.86	74	33.14
2845	28.84	AV	H	23.89	3.29	26.56	29.46	54	24.54
500.45	41.83	QP	V	18.1	1.61	28.82	32.72	46	13.28

5470MHz-5725MHz:
802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5500 MHz									
5500	73.57	PK	H	32.3	5.52	0	111.39	N/A	N/A
5500	62.33	AV	H	32.3	5.52	0	100.15	N/A	N/A
5500	72.24	PK	V	32.3	5.52	0	110.06	N/A	N/A
5500	61.14	AV	V	32.3	5.52	0	98.96	N/A	N/A
5470	26.65	PK	H	32.25	5.49	0	64.39	74	9.61
5470	14.67	AV	H	32.25	5.49	0	52.41	54	1.59
11000	32.40	PK	H	37.6	8.2	26.06	52.14	74	21.86
11000	21.60	AV	H	37.6	8.2	26.06	41.34	54	12.66
16500	33.61	PK	H	40.3	10.44	25.48	58.87	74	15.13
16500	22.82	AV	H	40.3	10.44	25.48	48.08	54	5.92
2485	44.51	PK	H	23.25	2.99	26.89	43.86	74	30.14
2485	33.09	AV	H	23.25	2.99	26.89	32.44	54	21.56
1234	37.96	PK	H	23.41	2.3	26.59	37.08	74	36.92
1234	26.85	AV	H	23.41	2.3	26.59	25.97	54	28.03
500.45	42.36	QP	V	18.1	1.61	28.82	33.25	46	12.75
Middle Channel:5600 MHz									
5600	73.11	PK	H	32.42	5.61	0	111.14	N/A	N/A
5600	62.40	AV	H	32.42	5.61	0	100.43	N/A	N/A
5600	72.35	PK	V	32.42	5.61	0	110.38	N/A	N/A
5600	60.69	AV	V	32.42	5.61	0	98.72	N/A	N/A
11200	32.43	PK	H	37.76	8.21	26.04	52.36	74	21.64
11200	21.67	AV	H	37.76	8.21	26.04	41.60	54	12.40
16800	34.90	PK	H	41.26	10.43	25.59	61.00	74	13.00
16800	24.47	AV	H	41.26	10.43	25.59	50.57	54	3.43
2485	44.37	PK	H	23.25	2.99	26.89	43.72	74	30.28
2485	33.09	AV	H	23.25	2.99	26.89	32.44	54	21.56
1452	36.12	PK	H	23.98	2.6	26.38	36.32	74	37.68
1452	26.48	AV	H	23.98	2.6	26.38	26.68	54	27.32
500.45	41.74	QP	V	18.1	1.61	28.82	32.63	46	13.37
Middle Channel:5700 MHz									
5700	72.61	PK	H	32.54	5.7	0	110.85	N/A	N/A
5700	62.05	AV	H	32.54	5.7	0	100.29	N/A	N/A
5700	70.94	PK	V	32.54	5.7	0	109.18	N/A	N/A
5700	60.40	AV	V	32.54	5.7	0	98.64	N/A	N/A
5725	26.18	PK	H	32.57	5.72	0	64.47	74	9.53
5725	14.99	AV	H	32.57	5.72	0	53.28	54	0.72
11400	32.47	PK	H	37.92	8.22	26.03	52.58	74	21.42
11400	22.18	AV	H	37.92	8.22	26.03	42.29	54	11.71
17100	33.44	PK	H	42.36	10.6	25.8	60.60	74	13.40
17100	23.12	AV	H	42.36	10.6	25.8	50.28	54	3.72
2485	44.31	PK	H	23.25	2.99	26.89	43.66	74	30.34
2485	33.85	AV	H	23.25	2.99	26.89	33.20	54	20.80
4915	37.03	PK	H	31.13	5.07	26.87	46.36	74	27.64
4915	26.70	AV	H	31.13	5.07	26.87	36.03	54	17.97
500.45	42.30	QP	V	18.1	1.61	28.82	33.19	46	12.81

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)					
Low Channel:5510 MHz									
5510	73.67	PK	H	32.31	5.53	0	111.51	N/A	N/A
5510	62.59	AV	H	32.31	5.53	0	100.43	N/A	N/A
5510	72.65	PK	V	32.31	5.53	0	110.49	N/A	N/A
5510	61.53	AV	V	32.31	5.53	0	99.37	N/A	N/A
5470	26.35	PK	H	32.25	5.49	0	64.09	74	9.91
5470	14.78	AV	H	32.25	5.49	0	52.52	54	1.48
11020	32.38	PK	H	37.62	8.2	26.06	52.14	74	21.86
11020	20.83	AV	H	37.62	8.2	26.06	40.59	54	13.41
16530	33.82	PK	H	40.4	10.44	25.49	59.17	74	14.83
16530	23.50	AV	H	40.4	10.44	25.49	48.85	54	5.15
2485	44.84	PK	H	23.25	2.99	26.89	44.19	74	29.81
2485	33.56	AV	H	23.25	2.99	26.89	32.91	54	21.09
1495	36.23	PK	H	24.09	2.66	26.33	36.65	74	37.35
1495	25.34	AV	H	24.09	2.66	26.33	25.76	54	28.24
500.45	41.25	QP	V	18.1	1.61	28.82	32.14	46	13.86
Middle Channel:5590 MHz									
5590	78.32	PK	H	32.41	5.6	0	116.33	N/A	N/A
5590	67.07	AV	H	32.41	5.6	0	105.08	N/A	N/A
5590	75.11	PK	V	32.41	5.6	0	113.12	N/A	N/A
5590	64.39	AV	V	32.41	5.6	0	102.40	N/A	N/A
11180	32.24	PK	H	37.74	8.21	26.05	52.14	74	21.86
11180	21.56	AV	H	37.74	8.21	26.05	41.46	54	12.54
16770	35.30	PK	H	41.16	10.43	25.58	61.31	74	12.69
16770	24.64	AV	H	41.16	10.43	25.58	50.65	54	3.35
2485	44.75	PK	H	23.25	2.99	26.89	44.10	74	29.90
2485	32.92	AV	H	23.25	2.99	26.89	32.27	54	21.73
4252	37.97	PK	H	29.4	5.1	26.7	45.77	74	28.23
4252	27.15	AV	H	29.4	5.1	26.7	34.95	54	19.05
500.45	41.96	QP	V	18.1	1.61	28.82	32.85	46	13.15
Middle Channel:5670 MHz									
5670	73.16	PK	H	32.5	5.67	0	111.33	N/A	N/A
5670	62.69	AV	H	32.5	5.67	0	100.86	N/A	N/A
5670	72.33	PK	V	32.5	5.67	0	110.50	N/A	N/A
5670	61.45	AV	V	32.5	5.67	0	99.62	N/A	N/A
5725	26.56	PK	H	32.57	5.72	0	64.85	74	9.15
5725	14.76	AV	H	32.57	5.72	0	53.05	54	0.95
11340	32.52	PK	H	37.87	8.21	26.03	52.57	74	21.43
11340	21.40	AV	H	37.87	8.21	26.03	41.45	54	12.55
17010	34.80	PK	H	41.95	10.45	25.67	61.53	74	12.47
17010	25.03	AV	H	41.95	10.45	25.67	51.76	54	2.24
2485	45.53	PK	H	23.25	2.99	26.89	44.88	74	29.12
2485	33.16	AV	H	23.25	2.99	26.89	32.51	54	21.49
4252	37.55	PK	H	29.4	5.1	26.7	45.35	74	28.65
4252	26.95	AV	H	29.4	5.1	26.7	34.75	54	19.25
500.45	41.50	QP	V	18.1	1.61	28.82	32.39	46	13.61

802.11n ac80 mode

Frequency	Receiver		Rx Antenna		Cable	Amplifier	Corrected	Limit	Margin
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)	loss (dB)	Gain (dB)	Amplitude (dBμV/m)	(dBμV/m)	(dB)
Low Channel:5530 MHz									
5530	72.11	PK	H	32.34	5.55	0	110.00	N/A	N/A
5530	60.56	AV	H	32.34	5.55	0	98.45	N/A	N/A
5530	70.88	PK	V	32.34	5.55	0	108.77	N/A	N/A
5530	57.14	AV	V	32.34	5.55	0	95.03	N/A	N/A
5470	28.20	PK	H	32.25	5.49	0	65.94	74	8.06
5470	14.89	AV	H	32.25	5.49	0	52.63	54	1.37
5725	26.07	PK	H	32.57	5.72	0	64.36	74	9.64
5725	14.34	AV	H	32.57	5.72	0	52.63	54	1.37
11060	32.34	PK	H	37.65	8.2	26.06	52.13	74	21.87
11060	21.62	AV	H	37.65	8.2	26.06	41.41	54	12.59
16590	34.73	PK	H	40.59	10.44	25.51	60.25	74	13.75
16590	23.20	AV	H	40.59	10.44	25.51	48.72	54	5.28
2485	44.83	PK	H	23.25	2.99	26.89	44.18	74	29.82
2485	33.14	AV	H	23.25	2.99	26.89	32.49	54	21.51
500.45	40.38	QP	V	18.1	1.61	28.82	31.27	46	14.73
Middle Channel:5610 MHz									
5610	72.89	PK	H	32.43	5.62	0	110.94	N/A	N/A
5610	61.64	AV	H	32.43	5.62	0	99.69	N/A	N/A
5610	70.76	PK	V	32.43	5.62	0	108.81	N/A	N/A
5610	56.83	AV	V	32.43	5.62	0	94.88	N/A	N/A
5470	28.02	PK	H	32.25	5.49	0	65.76	74	8.24
5470	15.01	AV	H	32.25	5.49	0	52.75	54	1.25
5725	25.55	PK	H	32.57	5.72	0	63.84	74	10.16
5725	14.32	AV	H	32.57	5.72	0	52.61	54	1.39
11220	32.26	PK	H	37.78	8.21	26.04	52.21	74	21.79
11220	21.45	AV	H	37.78	8.21	26.04	41.40	54	12.60
16830	35.40	PK	H	41.36	10.43	25.6	61.59	74	12.41
16830	24.41	AV	H	41.36	10.43	25.6	50.60	54	3.40
2485	45.20	PK	H	23.25	2.99	26.89	44.55	74	29.45
2485	32.97	AV	H	23.25	2.99	26.89	32.32	54	21.68
500.45	41.14	QP	V	18.1	1.61	28.82	32.03	46	13.97

FCC §15.407(a) –EMISSION BANDWIDTH AND OCCUPIED BANDWIDTH

Applicable Standard

15.407(a) 15.407(e)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
N/A	RF Cable	N/A	N/A	Each Time	/

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

1. According to KDB789033 D02 General U-NII Test Procedures New Rules v01r03.

Test Data

Environmental Conditions

Temperature:	25.1~28.3 °C
Relative Humidity:	28~36 %
ATM Pressure:	100.9~101.6 kPa

The testing was performed by Lorin Bian from 2016-11-04 to 2016-11-30.

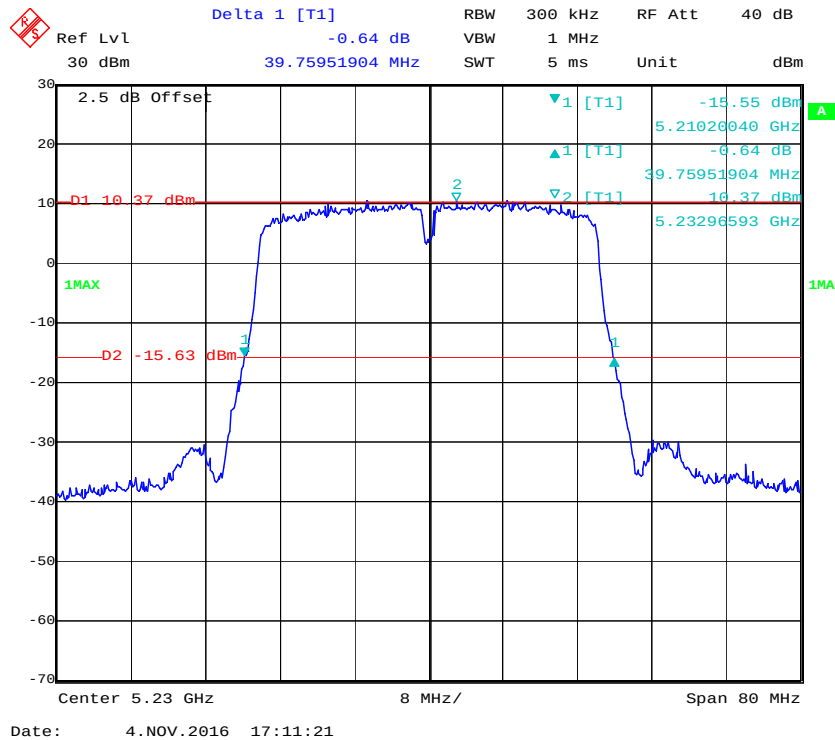
Test Result: Pass.

Please refer to the following tables and plots.

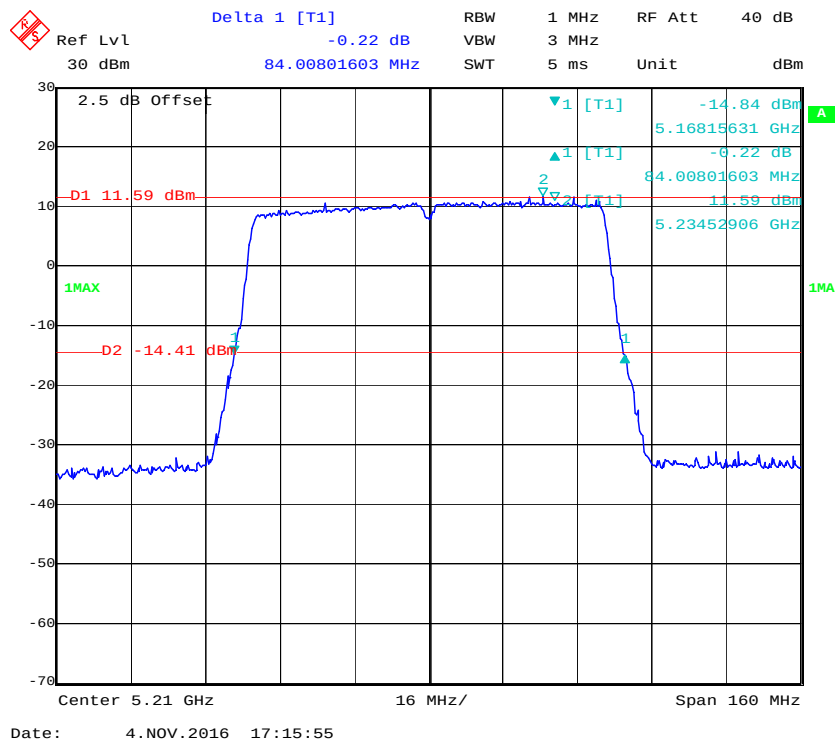
Test mode: Transmitting(Test performed at chain 0)

UNII Band	Mode	Channel	Frequency (MHz)	26dB Emission Bandwidth (MHz)
5150-5250MHz	802.11 a	High	5240	20.12
	802.11 n20	High	5240	21.64
	802.11 n40	High	5230	39.76
	802.11 ac80	Middle	5210	84.01
5250-5350MHz	802.11 a	Low	5260	20.04
		Middle	5280	20.28
		High	5320	20.12
	802.11 n20	Low	5260	20.76
		Middle	5280	20.84
		High	5320	20.84
	802.11 n40	Low	5270	39.92
		High	5310	39.76
	802.11 ac80	Middle	5290	84.97
5470-5725MHz	802.11 a	Low	5500	20.04
		Middle	5600	20.28
		Middle	5700	20.12
	802.11 n20	Low	5500	20.92
		Middle	5600	20.92
		High	5700	20.84
	802.11 n40	Low	5510	39.76
		Middle	5590	40.1
		High	5670	39.76
	802.11 ac80	Low	5530	83.69
		High	5610	84.65

802.11n ht40 High Channel

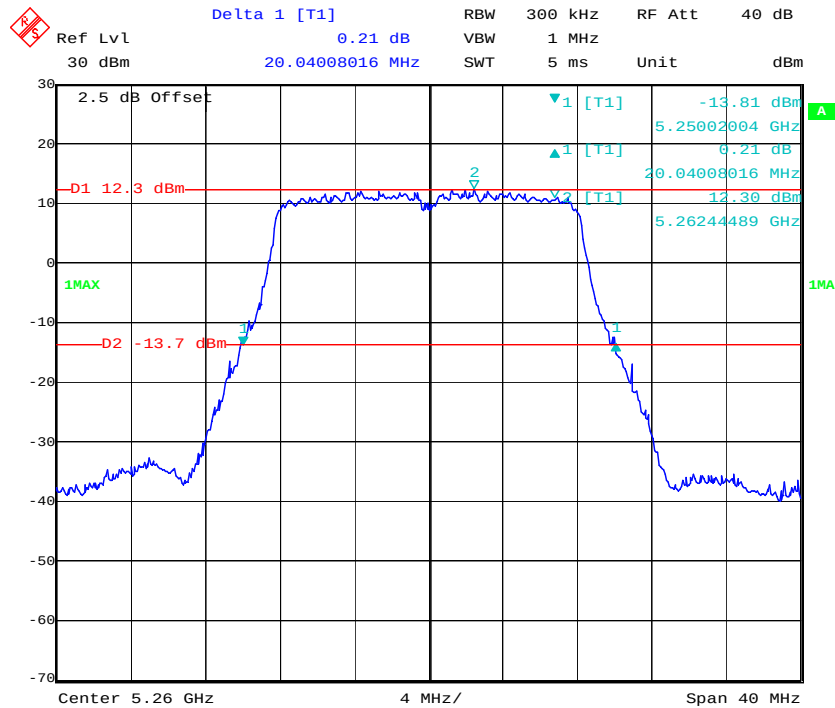


802.11ac80 Middle Channel

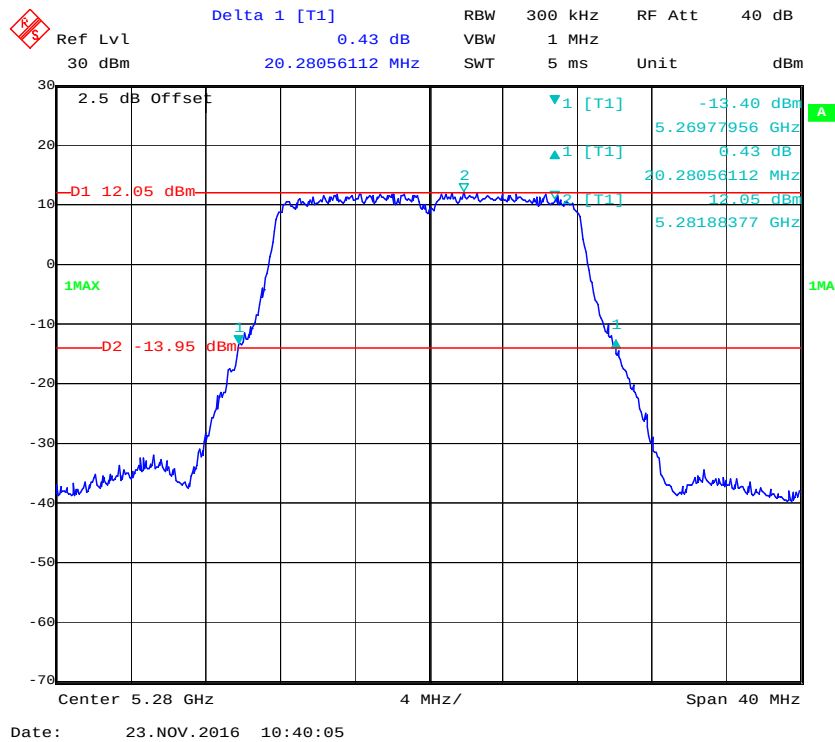


5250MHz-5350MHz:

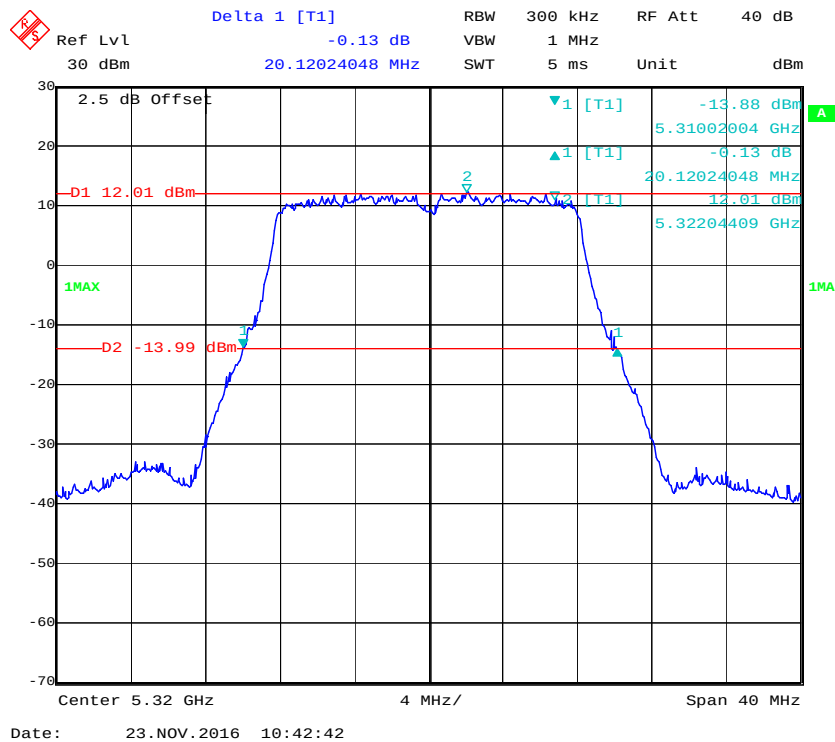
802.11a Low Channel



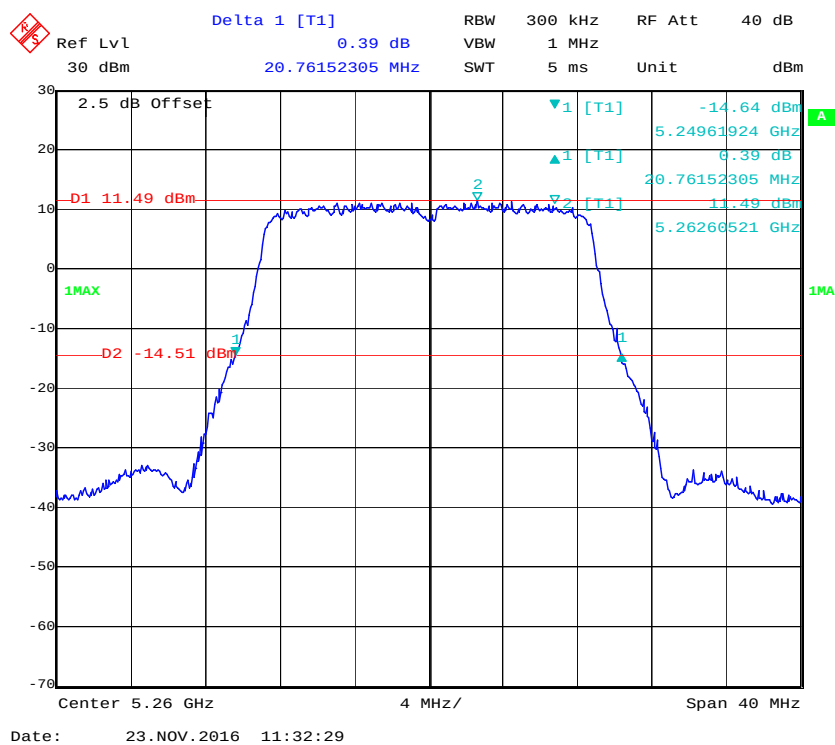
802.11a Middle Channel



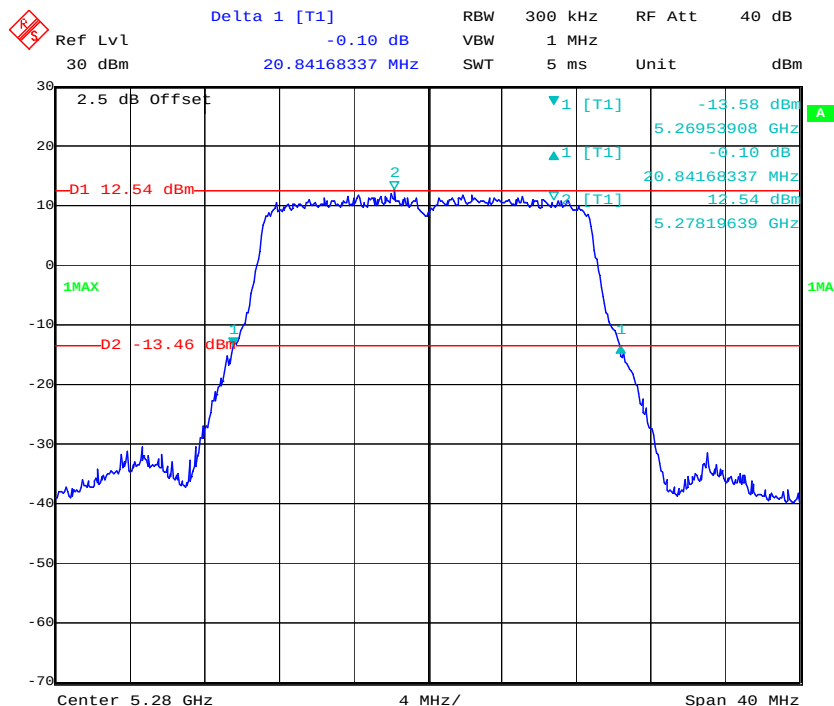
802.11a High Channel



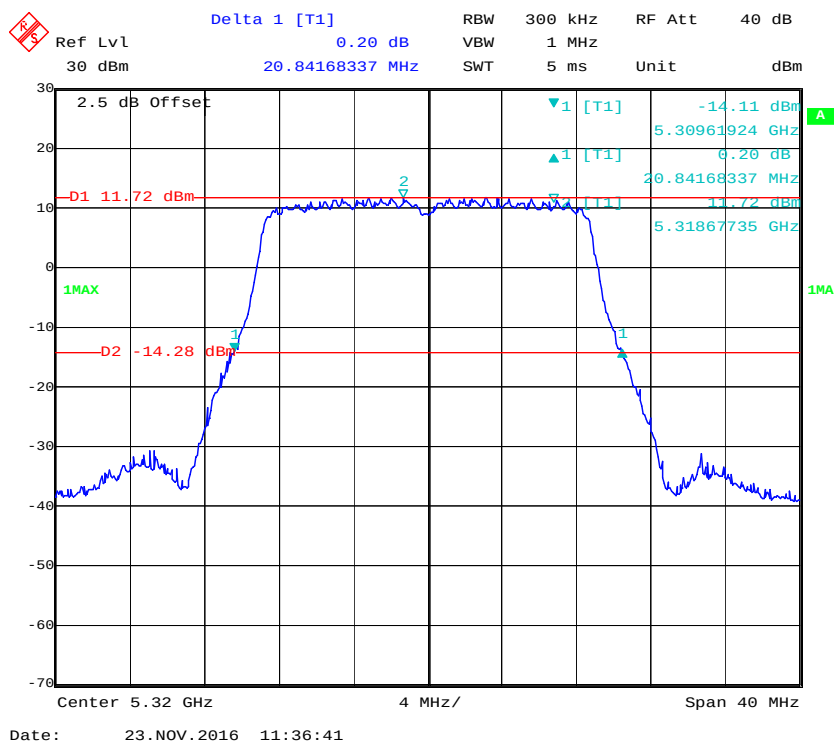
802.11n ht20 Low Channel



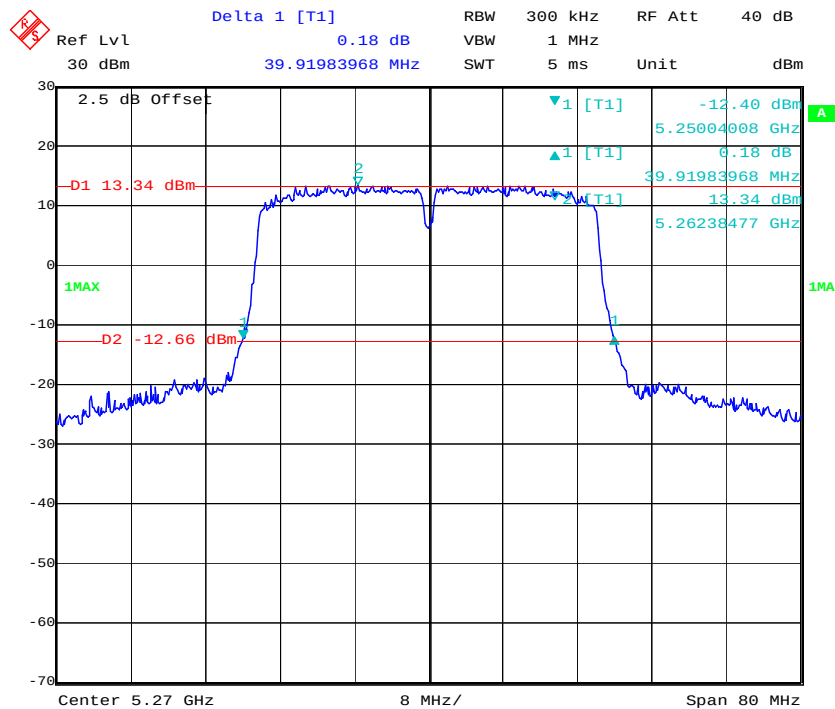
802.11n ht20 Middle Channel



802.11n ht20 High Channel

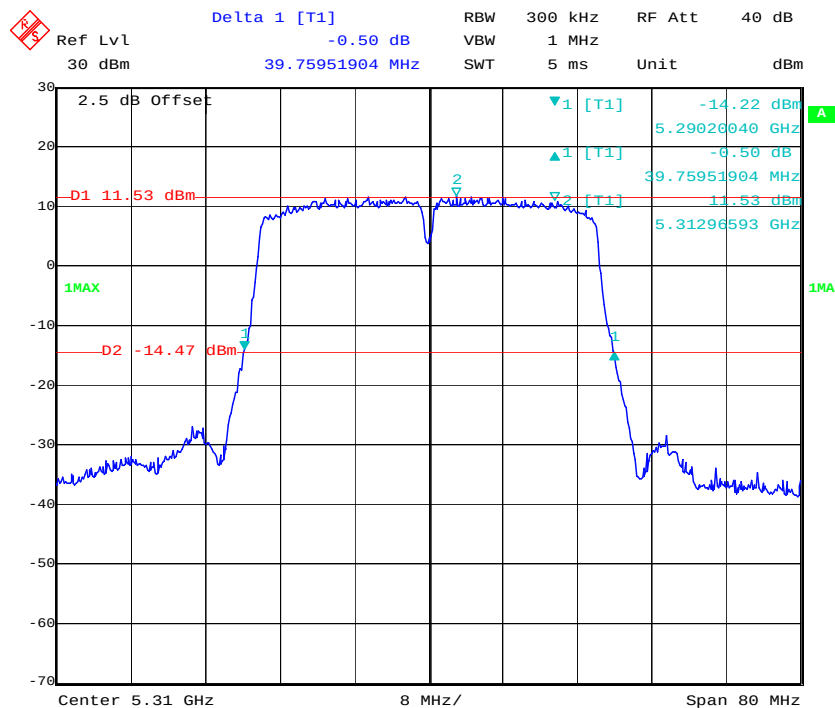


802.11n ht40 Low Channel



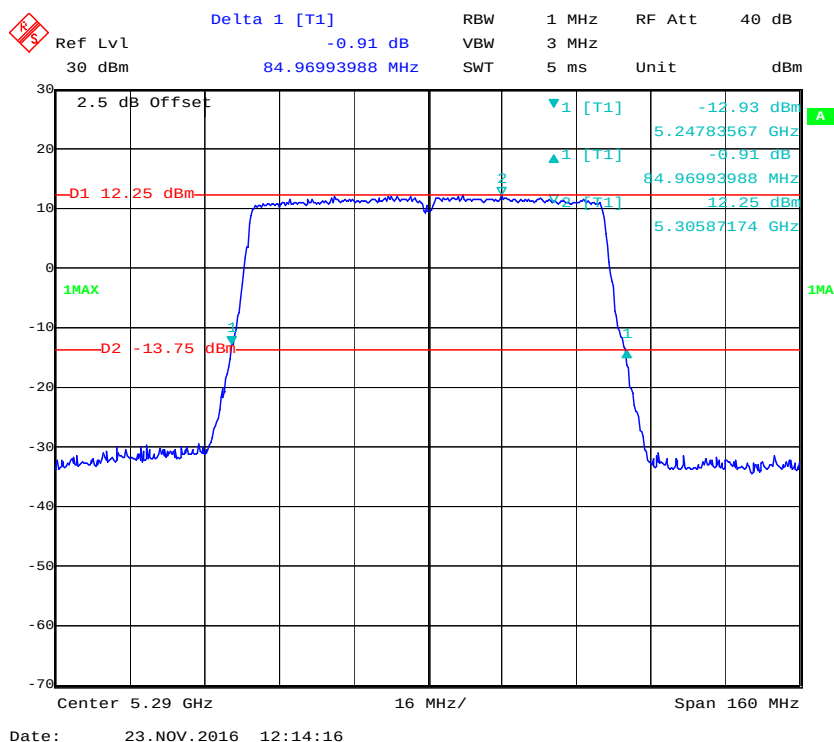
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802.11n ht40 High Channel



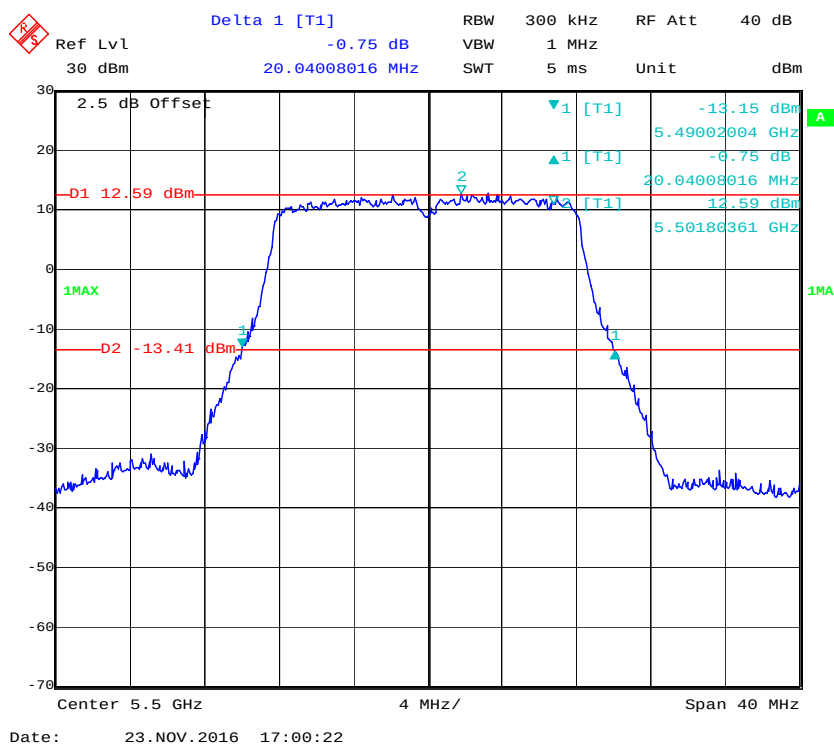
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802.11n ac80 Middle Channel

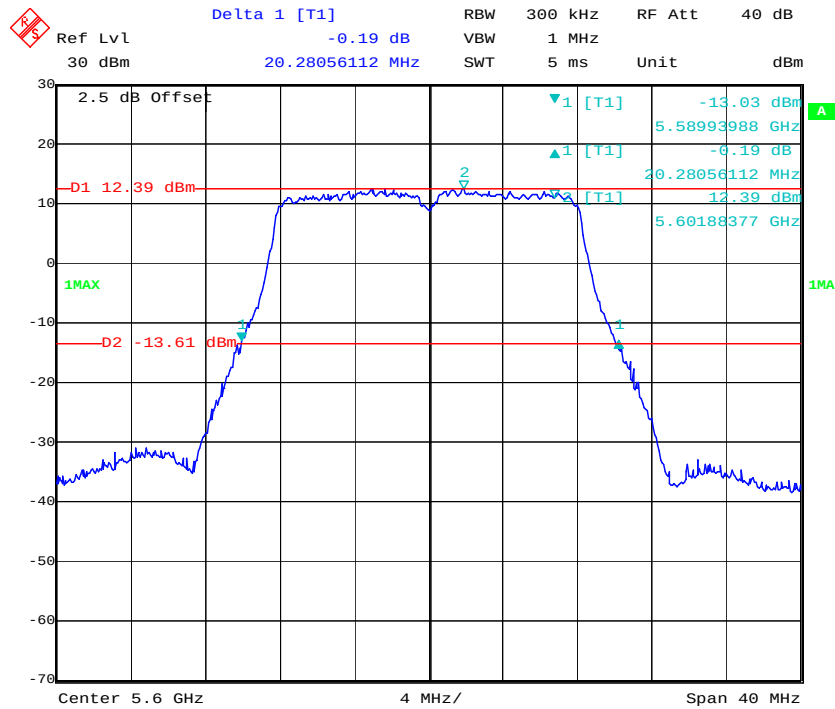


5470Hz-5725MHz:

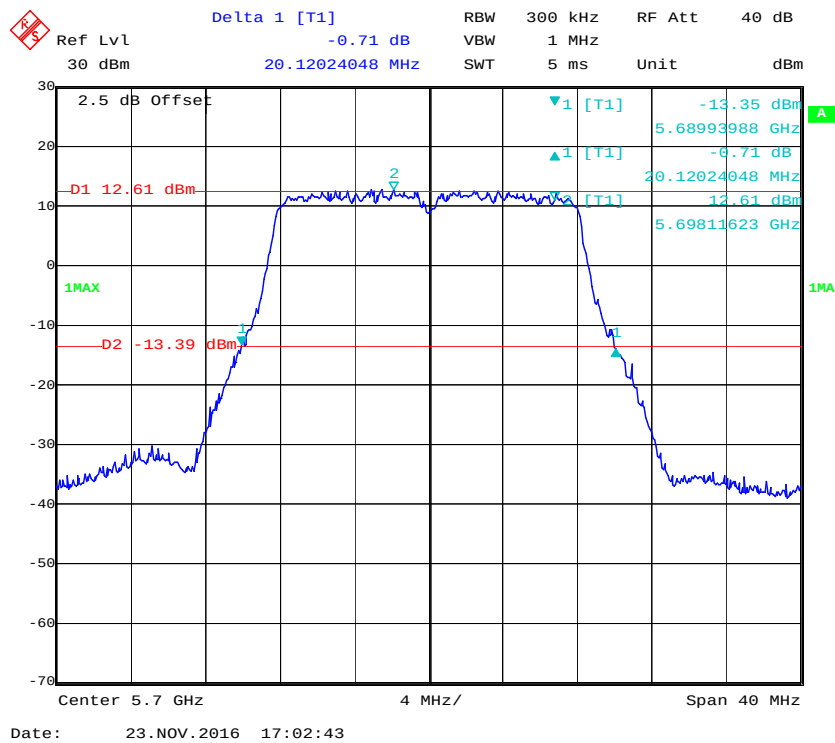
802.11a Low Channel



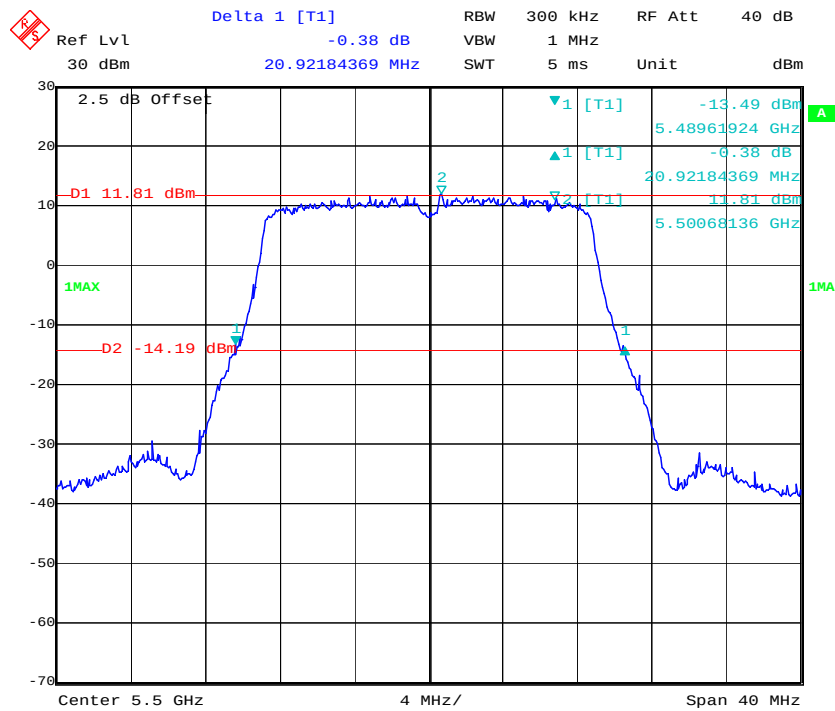
802.11a Middle Channel



802.11a High Channel

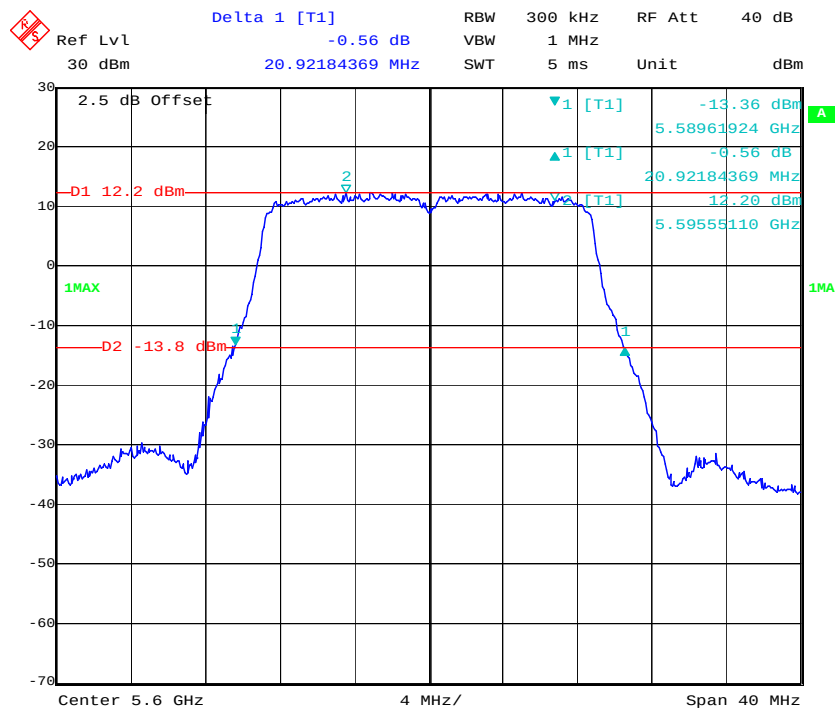


802.11n ht20 Low Channel



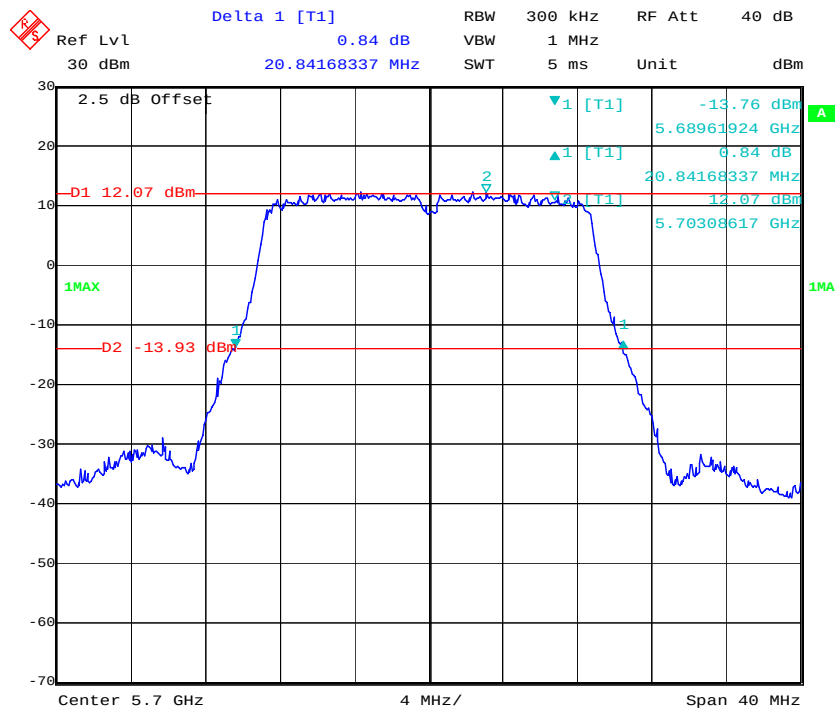
Date: 23.NOV.2016 17:28:41

802.11n ht20 Middle Channel



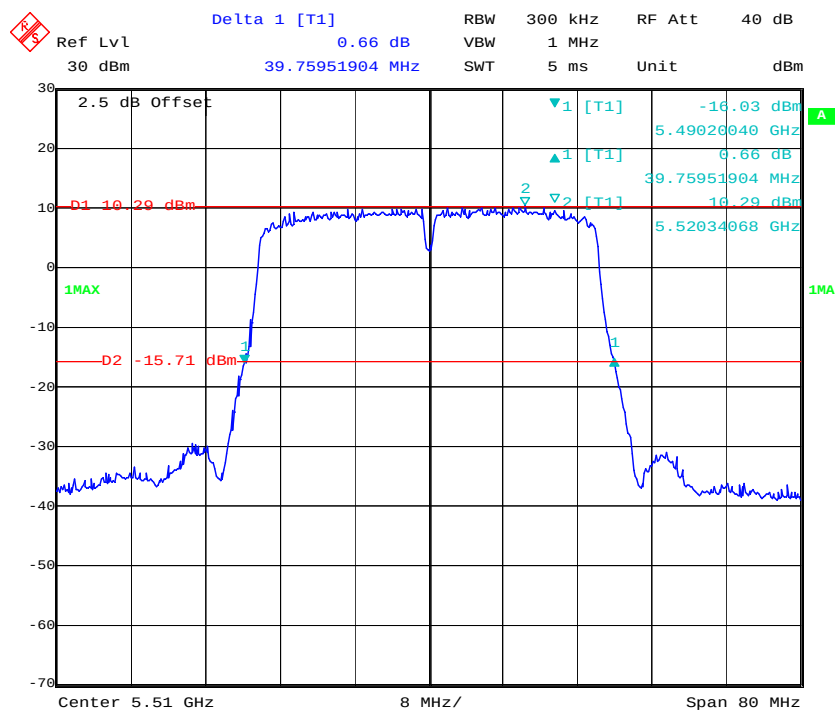
Date: 24.NOV.2016 13:51:44

802.11n ht20 High Channel



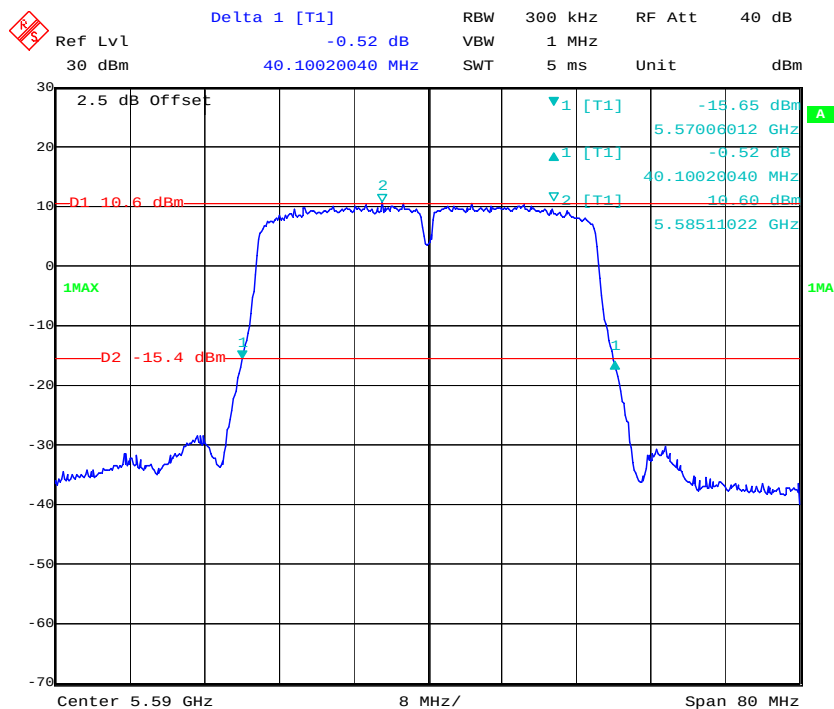
Date: 23.NOV.2016 17:33:13

802.11n ht40 Low Channel

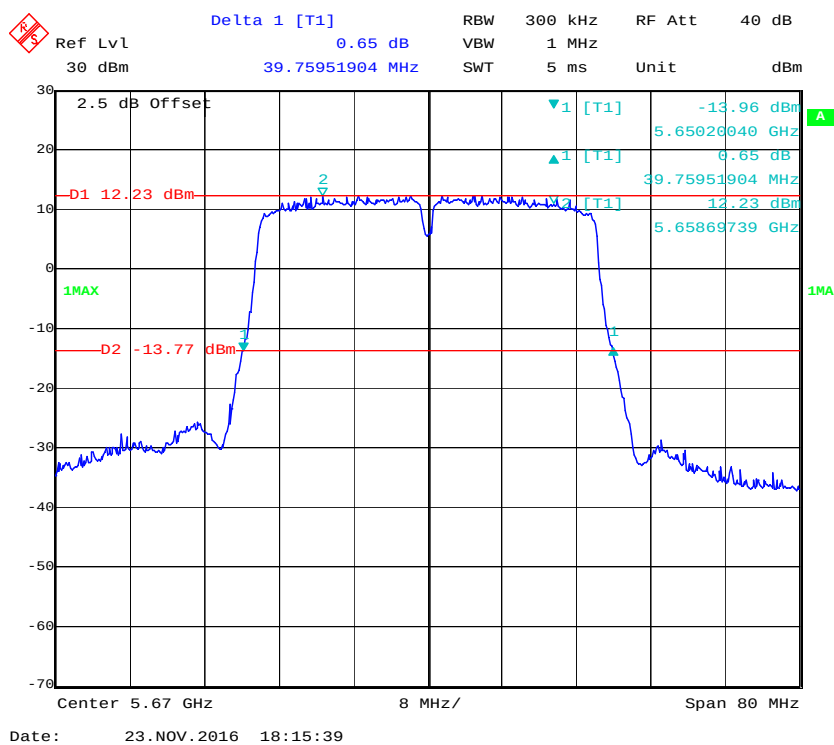


Date: 23.NOV.2016 18:19:26

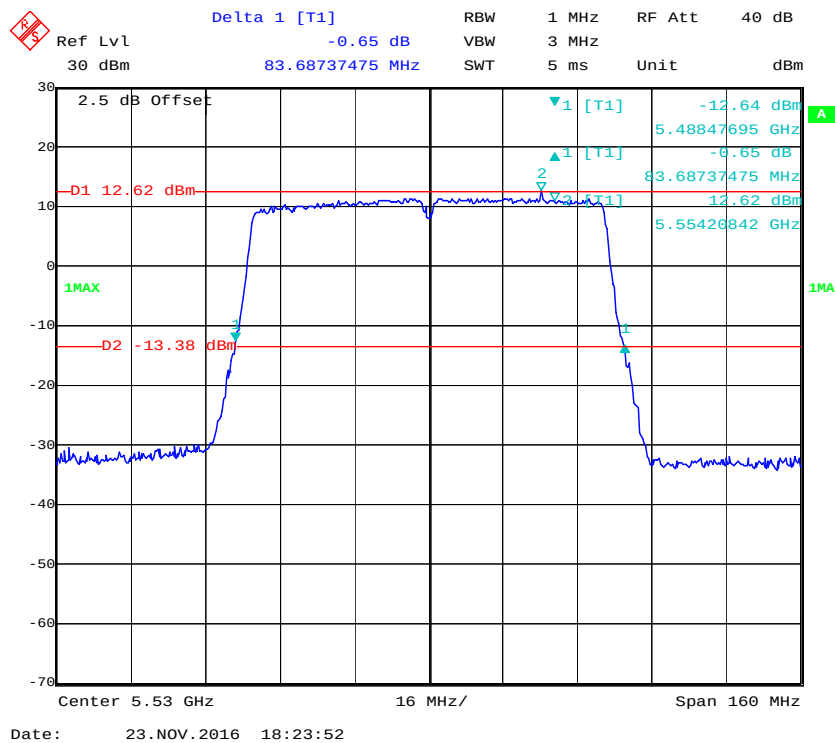
802.11n ht40 Middle Channel



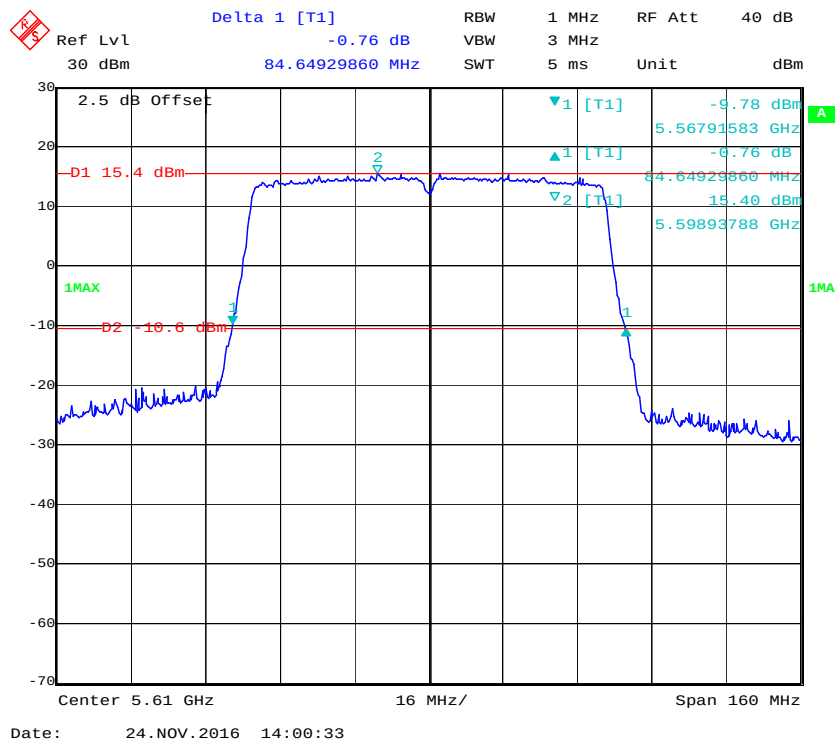
802.11n ht40 High Channel



802.11 ac80 Low Channel



802.11 ac80 High Channel



FCC §15.407(a) (1) (ii) (4) –MAXIMUM CONDUCTED OUTPUT POWER

Applicable Standard

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm $10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output

power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

(4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

(5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	Wideband Power Sensor	N1921A	MY54170074	2016-01-03	2017-01-03
Agilent	P-Series Power Meter	N1912A	MY5000798	2016-01-03	2017-01-03
N/A	RF Cable	N/A	N/A	Each Time	/

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Procedure

According to KDB789033 D02 General U-NII Test Procedures New Rules v01r03.

Test Data

Environmental Conditions

Temperature:	27.6 °C
Relative Humidity:	32 %
ATM Pressure:	101.3 kPa

The testing was performed by Lorin Bian on 2016-11-25.

Test Mode: Transmitting(the duty cycle factor was add in the result)

SISO- Without Beamforming:

UNII Band	Mode	Channel	Frequency (MHz)	RMS Channel Power (dBm)				Limit (dBm)
				Chain 0	Chain 1	Chain 2	Chain 3	
5150-5250MHz	802.11 a	High	5240	24.74	24.25	24.56	24.99	30
	802.11 n20	High	5240	24.44	23.97	24.28	24.75	30
	802.11 n40	High	5230	22.98	22.75	22.75	22.95	30
	802.11 ac80	Middle	5210	20.5	20.25	20.58	20.98	30
5250-5350MHz	802.11 a	Low	5260	21.05	20.98	21.36	21.46	24
		Middle	5280	21.08	21.06	21.41	21.54	24
		High	5320	21.05	21.35	21.39	21.62	24
	802.11 n20	Low	5260	20.87	21.08	20.97	21.13	24
		Middle	5280	20.92	21.19	20.93	21.24	24
		High	5320	20.93	21.4	20.98	21.37	24
	802.11 n40	Low	5270	22.78	22.87	22.14	22.18	24
		High	5310	22.74	22.7	22.55	22.24	24
	802.11 ac80	Middle	5290	22.45	22.44	22.36	22.5	24
5470-5725MHz	802.11 a	Low	5500	20.87	21.03	21.09	21.63	24
		Middle	5600	21.18	20.9	21.71	21.94	24
		High	5700	21.11	21.12	21.15	21	24
		Cross	5720	21.67	20.69	21.27	21.7	24
	802.11 n20	Low	5500	21.26	21.26	21.28	21.79	24
		Middle	5600	21.12	20.9	21.98	21.85	24
		High	5700	21.42	20.81	21.43	21.21	24
		Cross	5720	22.04	21.16	21.57	21.8	24
	802.11 n40	Low	5510	22.26	22.5	22.52	22.97	24
		Middle	5590	22.26	22.12	22.14	23.08	24
		High	5670	22.46	22.18	22.75	22.5	24
		Cross	5710	22.97	22.18	22.82	22.87	24
	802.11 ac80	Low	5530	22.29	22.15	22.64	23.06	24
		High	5610	22.63	22.53	23.31	23.46	24
		Cross	5690	22.83	22.07	22.66	22.66	24

Note: For cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirements of 5725-5850MHz band.

MIMO-2X2- Without Beamforming:

UNII Band	Mode	Channel	Frequency (MHz)	RMS Channel Power (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
5150- 5250MHz	802.11 a	High	5240	24.09	23.68	26.9	30
	802.11 n20	High	5240	23.81	23.34	26.59	30
	802.11 n40	High	5230	22.92	22.39	25.67	30
	802.11 ac80	Middle	5210	20.1	19.67	22.9	30
5250- 5350MHz	802.11 a	Low	5260	18.21	17.72	20.98	24
		Middle	5280	18.24	17.82	21.05	24
		High	5320	17.96	18.13	21.06	24
	802.11 n20	Low	5260	18.42	17.88	21.17	24
		Middle	5280	18.51	18	21.27	24
		High	5320	18.19	18.14	21.18	24
	802.11 n40	Low	5270	20.85	20.42	23.65	24
		High	5310	20.86	20.6	23.74	24
	802.11 ac80	Middle	5290	20.07	20.82	23.47	24
	5470- 5725MHz	802.11 a	Low	5500	18.22	18.64	21.45
Middle			5600	18.29	18.02	21.17	24
High			5700	18.37	18.25	21.32	24
Cross			5720	18.81	18.65	21.74	24
802.11 n20		Low	5500	18.48	18.57	21.54	24
		Middle	5600	18.36	18.56	21.47	24
		High	5700	18.6	18.38	21.5	24
		Cross	5720	18.91	18.4	21.67	24
802.11 n40		Low	5510	20.06	20.08	23.08	24
		Middle	5590	20.79	20.68	23.75	24
		High	5670	20.73	20.36	23.56	24
		Cross	5710	20.44	20.95	23.71	24
802.11 ac80		Low	5530	20.71	20.56	23.65	24
		High	5610	20.6	20.57	23.60	24
		Cross	5690	20.14	20.57	23.37	24

Note: For cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirements of 5725-5850MHz band.

MIMO-3X3- Without Beamforming:

UNII Band	Mode	Channel	Frequency (MHz)	RMS Channel Power (dBm)				Limit (dBm)
				Chain 0	Chain 1	Chain 2	Total	
5150-5250MHz	802.11 a	High	5240	21.69	21.12	21.96	26.38	30
	802.11 n20	High	5240	21.81	21.2	21.84	26.4	30
	802.11 n40	High	5230	22.54	22.11	22.57	27.18	30
	802.11 ac80	Middle	5210	19.78	19.27	19.65	24.34	30
5250-5350MHz	802.11 a	Low	5260	15.75	15.26	15.82	20.39	24
		Middle	5280	15.26	15.13	15.3	20	24
		High	5320	15.41	15.64	15.86	20.41	24
	802.11 n20	Low	5260	15.99	15.8	16.05	20.72	24
		Middle	5280	15.61	15.37	15.58	20.29	24
		High	5320	15.64	15.87	16.01	20.61	24
	802.11 n40	Low	5270	18.57	18.07	18.2	23.06	24
		High	5310	18.51	18.21	18.58	23.21	24
	802.11 ac80	Middle	5290	18.04	18.93	18.18	23.17	24
5470-5725MHz	802.11 a	Low	5500	15.42	15.43	16.17	20.46	24
		Middle	5600	14.93	15.27	16.11	20.24	24
		High	5700	15.92	15.78	16.26	20.76	24
		Cross	5720	16.28	15.81	16.16	20.86	24
	802.11 n20	Low	5500	15.78	15.23	16.32	20.57	24
		Middle	5600	15.19	15.39	16.21	20.39	24
		High	5700	15.6	15.55	15.87	20.45	24
		Cross	5720	15.8	15.42	15.8	20.45	24
	802.11 n40	Low	5510	18.23	18.15	18.87	23.2	24
		Middle	5590	17.77	17.65	18.87	22.9	24
		High	5670	18.71	18.31	18.9	23.42	24
		Cross	5710	18.8	18.53	18.84	23.5	24
	802.11 ac80	Low	5530	18.69	18.61	18.16	23.26	24
		High	5610	18.7	18.56	18.35	23.31	24
		Cross	5690	18.07	18.6	18.1	23.03	24

Note: For cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirements of 5725-5850MHz band.

MIMO-4X4-Without Beamforming:

UNII Band	Mode	Channel	Frequency (MHz)	RMS Channel Power (dBm)					Limit (dBm)
				Chain 0	Chain 1	Chain 2	Chain 3	Total	
5150-5250MHz	802.11 a	High	5240	18.68	17.73	18.61	19.1	24.58	30
	802.11 n20	High	5240	19.26	18.42	19.31	19.83	25.25	30
	802.11 n40	High	5230	20.56	20.04	20.67	21.25	26.67	30
	802.11 ac80	Middle	5210	18.72	18.32	18.53	19.36	24.77	30
5250-5350MHz	802.11 a	Low	5260	12.57	12	12.74	13.42	18.73	24
		Middle	5280	12.51	12.25	12.71	13.51	18.79	24
		High	5320	12.28	12.4	12.66	13.42	18.73	24
	802.11 n20	Low	5260	12.71	12.19	12.97	13.64	18.93	24
		Middle	5280	12.88	12.48	12.97	13.77	19.07	24
		High	5320	12.58	12.56	12.82	13.58	18.93	24
	802.11 n40	Low	5270	16.02	15.6	15.99	16.63	22.1	24
		High	5310	16.05	15.94	16.08	16.77	22.24	24
	802.11 ac80	Middle	5290	17.61	17.37	17.63	17.45	23.54	24
5470-5725MHz	802.11 a	Low	5500	12.09	11.99	12.71	13.12	18.52	24
		Middle	5600	13.2	13.32	13.92	14.25	19.71	24
		High	5700	13.15	12.93	13.43	13.14	19.19	24
		Cross	5720	13.73	13.05	13.39	13.63	19.48	24
	802.11 n20	Low	5500	12.54	12.34	13.03	13.5	18.9	24
		Middle	5600	12.76	12.43	13	13.38	18.93	24
		High	5700	13.48	13.42	13.91	13.48	19.6	24
		Cross	5720	13.85	13.35	13.66	14	19.74	24
	802.11 n40	Low	5510	15.56	15.47	16.2	16.54	21.99	24
		Middle	5590	15.53	15.23	16.43	16.34	21.93	24
		High	5670	15.81	15.94	16.57	16.21	22.16	24
		Cross	5710	15.87	15.57	15.83	15.93	21.82	24
	802.11 ac80	Low	5530	17.85	17.03	17.56	17.11	23.54	24
		High	5610	17.19	17.98	17.03	17.73	23.42	24
		Cross	5690	17.96	17.58	17.17	17.73	23.52	24

Note: the device is a indoor master device. the 4 antenna maximum antenna gains are 2dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

So:

Directional gain = GANT + Array Gain = 2dBi < 6dBi

For cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirements of 5725-5850MHz band.

MIMO-2X2- With Beamforming:

UNII Band	Mode	Channel	Frequency (MHz)	RMS Channel Power (dBm)			Limit (dBm)
				Chain 0	Chain 1	Total	
5150-5250MHz	802.11 a	High	5240	23.15	22.58	25.88	30
	802.11 n20	High	5240	23.04	22.98	26.02	30
	802.11 n40	High	5230	22.18	21.87	25.04	30
	802.11 ac80	Middle	5210	19.74	19.05	22.42	30
5250-5350MHz	802.11 a	Low	5260	18.01	17.26	20.66	24
		Middle	5280	18.15	17.64	20.91	24
		High	5320	17.65	17.42	20.55	24
	802.11 n20	Low	5260	17.63	17.24	20.45	24
		Middle	5280	18.14	17.21	20.71	24
		High	5320	17.26	17.87	20.59	24
	802.11 n40	Low	5270	20.22	19.84	23.04	24
		High	5310	19.99	19.47	22.75	24
	802.11 ac80	Middle	5290	19.74	20.24	23.01	24
5470-5725MHz	802.11 a	Low	5500	18.02	18.07	21.06	24
		Middle	5600	17.45	17.25	20.36	24
		High	5700	18.21	17.32	20.80	24
		Cross	5720	18.03	18.23	21.14	24
	802.11 n20	Low	5500	17.92	17.94	20.94	24
		Middle	5600	18.12	17.98	21.06	24
		High	5700	18.05	18.03	21.05	24
		Cross	5720	18.24	17.67	20.97	24
	802.11 n40	Low	5510	19.07	19.22	22.16	24
		Middle	5590	19.68	19.94	22.82	24
		High	5670	19.74	19.34	22.55	24
		Cross	5710	19.58	19.67	22.64	24
	802.11 ac80	Low	5530	19.88	19.64	22.77	24
		High	5610	19.97	19.89	22.94	24
		Cross	5690	19.34	19.72	22.54	24

Note: For cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirements of 5725-5850MHz band.

MIMO-3X3- With Beamforming:

UNII Band	Mode	Channel	Frequency (MHz)	RMS Channel Power (dBm)				Limit (dBm)
				Chain 0	Chain 1	Chain 2	Total	
5150-5250MHz	802.11 a	High	5240	20.77	20.36	20.29	25.25	30
	802.11 n20	High	5240	20.96	20.17	20.88	25.46	30
	802.11 n40	High	5230	21.94	21.39	21.47	26.38	30
	802.11 ac80	Middle	5210	19.08	18.99	18.77	23.72	30
5250-5350MHz	802.11 a	Low	5260	14.94	14.36	15.24	19.63	24
		Middle	5280	14.33	14.28	14.75	19.23	24
		High	5320	15.02	15.22	14.93	19.83	24
	802.11 n20	Low	5260	14.94	15.02	15.09	19.79	24
		Middle	5280	14.35	14.29	15.25	19.42	24
		High	5320	14.57	15.11	15.33	19.79	24
	802.11 n40	Low	5270	17.96	17.26	17.29	22.29	24
		High	5310	17.77	17.69	18.21	22.67	24
	802.11 ac80	Middle	5290	17.34	18.16	16.98	22.29	24
5470-5725MHz	802.11 a	Low	5500	14.96	14.74	15.39	19.81	24
		Middle	5600	14.38	14.39	15.74	19.66	24
		High	5700	15.39	15.11	15.69	20.17	24
		Cross	5720	15.79	15.42	15.44	20.32	24
	802.11 n20	Low	5500	15.04	14.77	15.21	19.78	24
		Middle	5600	14.77	14.68	15.44	19.75	24
		High	5700	15.22	15.23	14.96	19.91	24
		Cross	5720	14.96	14.79	15.48	19.86	24
	802.11 n40	Low	5510	17.69	17.29	17.25	22.19	24
		Middle	5590	17.48	17.01	17.69	22.17	24
		High	5670	18.03	17.55	18.25	22.72	24
		Cross	5710	18.22	18.24	17.99	22.92	24
	802.11 ac80	Low	5530	18.41	17.91	17.64	22.77	24
		High	5610	17.96	17.25	18.06	22.54	24
		Cross	5690	17.05	17.84	17.22	22.15	24

Note: For cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirements of 5725-5850MHz band.

MIMO-4X4-With Beamforming:

UNII Band	Mode	Channel	Frequency (MHz)	RMS Channel Power (dBm)					Limit (dBm)
				Chain 0	Chain 1	Chain 2	Chain 3	Total	
5150-5250MHz	802.11 a	High	5240	18.05	17.44	17.48	18.77	23.99	30
	802.11 n20	High	5240	18.74	17.88	18.69	18.76	24.55	30
	802.11 n40	High	5230	20.11	19.48	19.41	20.36	25.88	30
	802.11 ac80	Middle	5210	18.26	17.88	17.67	18.66	24.15	30
5250-5350MHz	802.11 a	Low	5260	12.04	11.03	12.08	13.05	18.13	24
		Middle	5280	12.17	11.58	11.88	13.21	18.28	24
		High	5320	11.66	12.06	12.04	13.06	18.26	24
	802.11 n20	Low	5260	11.56	11.78	12.44	13.18	18.31	24
		Middle	5280	12.14	11.96	12.36	13.05	18.42	24
		High	5320	12.06	12.06	12.07	13.24	18.41	24
	802.11 n40	Low	5270	15.25	14.95	14.65	15.75	21.19	24
		High	5310	15.41	15.27	15.12	15.96	21.47	24
	802.11 ac80	Middle	5290	16.66	15.89	16.09	15.42	22.06	24
5470-5725MHz	802.11 a	Low	5500	11.04	11.32	12.22	12.14	17.73	24
		Middle	5600	12.47	12.47	12.36	13.36	18.71	24
		High	5700	12.44	12.06	13.07	12.55	18.57	24
		Cross	5720	13.02	12.44	12.45	12.98	18.75	24
	802.11 n20	Low	5500	11.94	12.01	12.07	13.14	18.34	24
		Middle	5600	12.03	12.17	12.44	13.02	18.45	24
		High	5700	12.87	12.55	13.68	13.22	19.12	24
		Cross	5720	13.25	12.06	13.09	13.27	18.97	24
	802.11 n40	Low	5510	14.95	15.26	15.62	16.02	21.50	24
		Middle	5590	14.75	15.03	15.42	15.78	21.28	24
		High	5670	15.06	14.75	16.35	15.66	21.52	24
		Cross	5710	15.41	14.44	15.41	15.24	21.16	24
	802.11 ac80	Low	5530	17.24	16.29	16.08	16.58	22.59	24
		High	5610	16.27	16.58	16.28	16.87	22.53	24
		Cross	5690	17.06	16.99	16.49	16.29	22.74	24

Note: the device is a indoor master device. the 4 antenna maximum antenna gains are 2dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

So:

Directional gain = GANT + Array Gain = 2dBi < 6dBi

For cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirements of 5725-5850MHz band.

FCC §15.407(a) - POWER SPECTRAL DENSITY

Applicable Standard

(a) Power limits:

(1) For the band 5.15-5.25 GHz.

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(2) For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output

power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple colocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

Note to paragraph (a)(3): The Commission strongly recommends that parties employing U-NII devices to provide critical communications services should determine if there are any nearby Government radar systems that could affect their operation.

(4) The maximum conducted output power must be measured over any interval of continuous transmission using instrumentation calibrated in terms of an rms-equivalent voltage.

(5) The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v01r03.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Rohde & Schwarz	Signal Analyzer	FSIQ26	831929/005	2016-09-21	2017-09-20
N/A	RF Cable	N/A	N/A	Each Time	/

* **Statement of Traceability:** BACL (Chengdu) attested that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	26.7~27 °C
Relative Humidity:	34~36 %
ATM Pressure:	101.3~101.5 kPa

The testing was performed by Lorin Bian from 2016-12-01 to 2016-12-02.

Test Mode: Transmitting(Per power test, beamforming mode is less than Non-beamforming mode, for MIMO mode, only performed at Non-beamforming mode)

Test Result: Compliance. Please refer to the following table and plot.

5150-5250MHz: SISO:

Mode	Test Frequency (MHz)	Test Data (dBm/MHz)				Power Spectral Density(dBm/MHz)				Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3	Chain 0	Chain 1	Chain 2	Chain 3	
802.11a	5240	14.2	13.58	13.82	14.69	14.2	13.58	13.82	14.69	17
802.11n20	5240	14.14	13.13	13.18	13.77	14.14	13.13	13.18	13.77	17
802.11	5230	8.86	8.06	8.81	9.07	8.86	8.06	8.81	9.07	17
802.11ac80	5210	3.52	2.72	3.33	3.81	3.67	2.87	3.48	3.96	17

Note: the duty cycle factor is 0 dB for 802.11a/n20/n40, and 0.15dB for 802.11ac80.

MIMO-2T2R:

Mode	Test Frequency (MHz)	Test Data (dBm/MHz)		Total (dBm/MHz)	Duty cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1				
802.11a	5240	13.48	13.28	16.39	0	16.39	17
802.11n20	5240	13.29	12.9	16.11	0	16.11	17
802.11	5230	9.3	9.21	12.27	0	12.27	17
802.11ac80	5210	2.98	2.71	5.86	0.15	6.01	17

Note: the device is a master device. the 3 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(N_{ANT}/N_{SS})$ dB.

So:

Directional gain = GANT + Array Gain = $2 + 10 \cdot \log(2) = 5$ dBi < 6dBi

MIMO-3T3R:

Mode	Test Frequency (MHz)	Test Data (dBm/MHz)			Total (dBm/MHz)	Duty cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2				
802.11 a	5240	11.07	11.13	11.26	15.93	0	15.93	16.23
802.11 n20	5240	10.88	10.86	11.69	15.93	0	15.93	16.23
802.11	5230	8.87	8.75	8.9	13.61	0	13.61	16.23
802.11 ac80	5210	2.49	2.33	2.41	7.18	0.15	7.33	16.23

Note: the device is a master device. the 3 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(\text{NANT/NSS})$ dB.

So:

Directional gain = GANT + Array Gain = $2 + 10 \cdot \log(3) = 6.77$ dBi > 6dBi

Power density Limits = $17 - (6.77 - 6) = 16.23$ dBm

MIMO-4T4R:

Mode	Test Frequency (MHz)	Test Data (dBm/MHz)				Total (dBm/MHz)	Duty cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3				
802.11 a	5240	8.06	7.34	8.06	8.79	14.11	0	14.11	15
802.11 n20	5240	8.48	8.16	8.94	9.03	14.69	0	14.69	15
802.11	5230	6.72	6.28	6.99	7.43	12.9	0	12.9	15
802.11 ac80	5210	1.64	1.16	1.61	2.12	7.67	0.15	7.82	15

Note: the device is a master device. the 4 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(\text{NANT/NSS})$ dB.

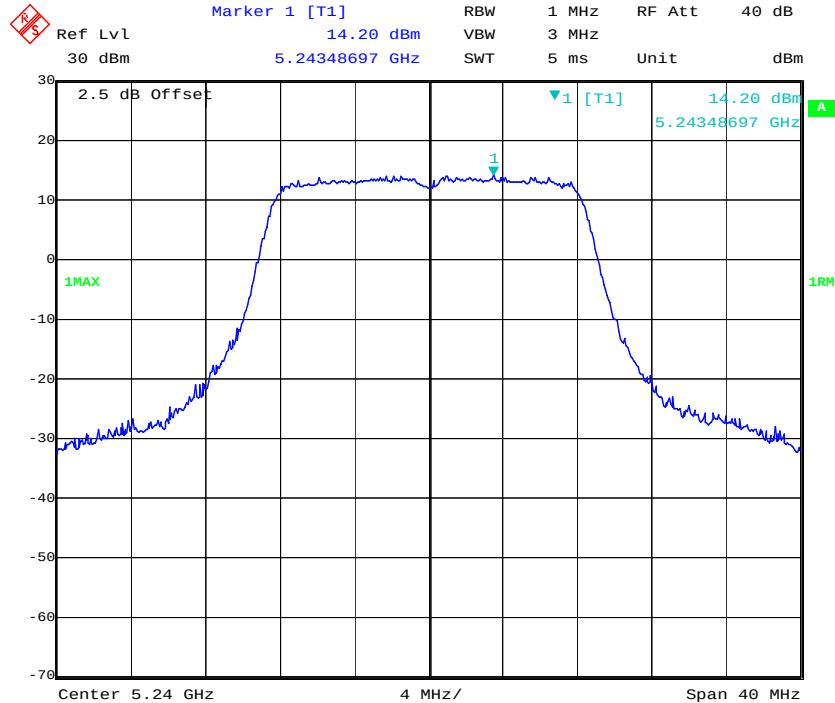
So:

Directional gain = GANT + Array Gain = $2 + 10 \cdot \log(4) = 8$ dBi > 6dBi

Power density Limits = $17 - (8 - 6) = 15$ dBm

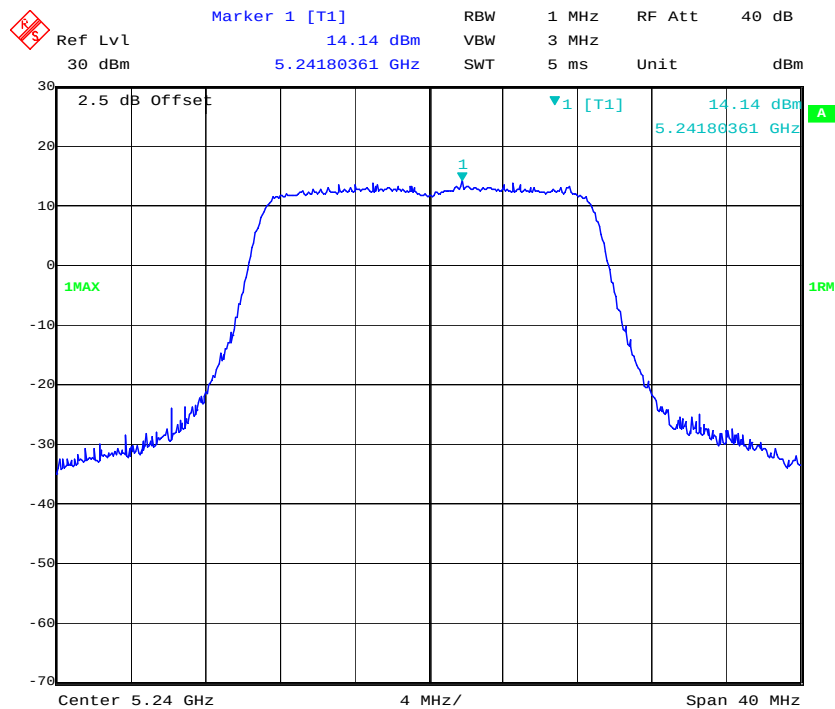
5150MHz-5250MHz:
SISO:

802.11a High Channel – Chain0



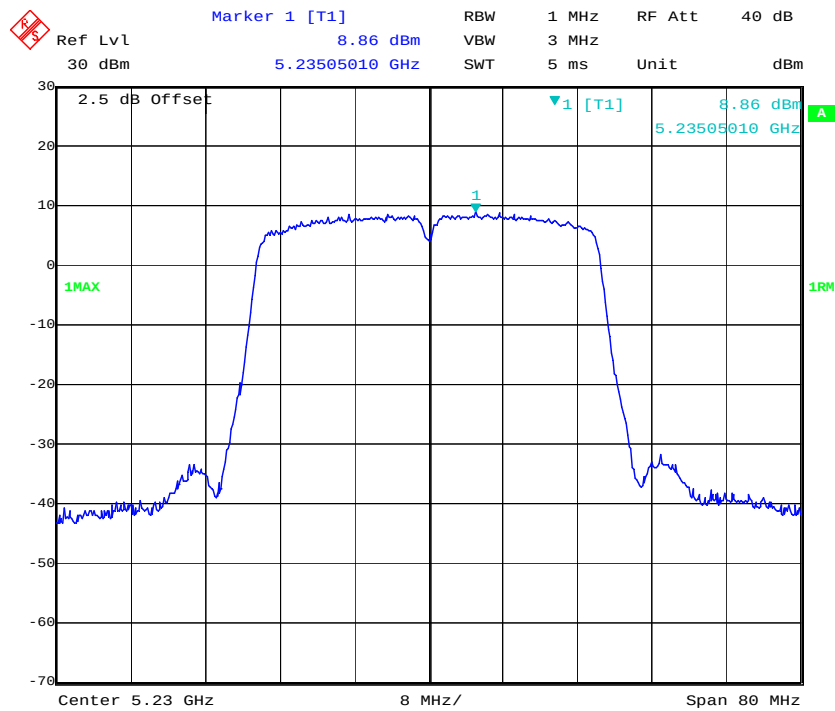
Date: 4.NOV.2016 16:28:16

802.11n ht20 High Channel – Chain0



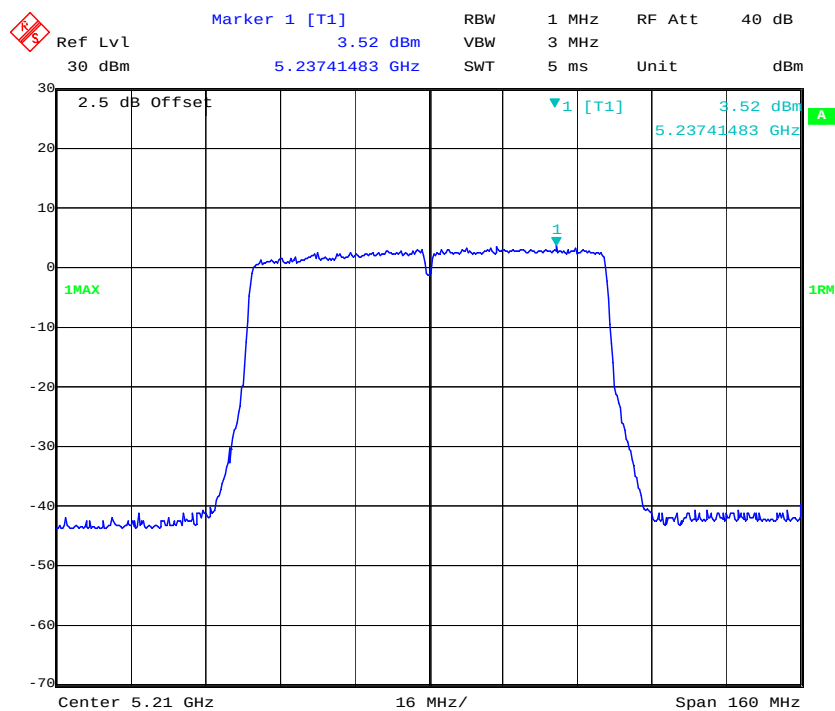
Date: 4.NOV.2016 17:08:36

802.11n ht40 High Channel – Chain0



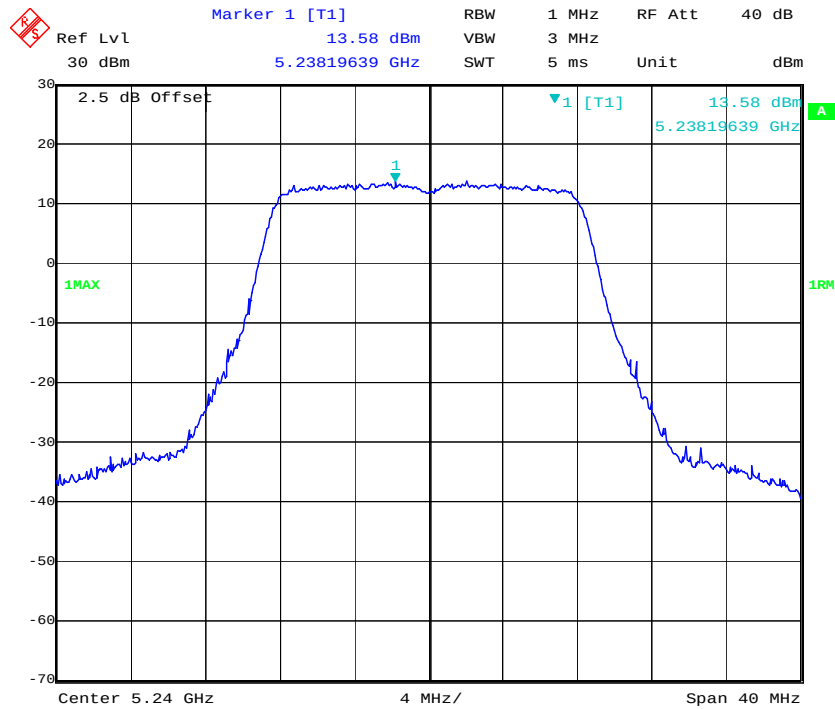
Date: 4.NOV.2016 17:12:00

802.11 ac80 Middle Channel – Chain0



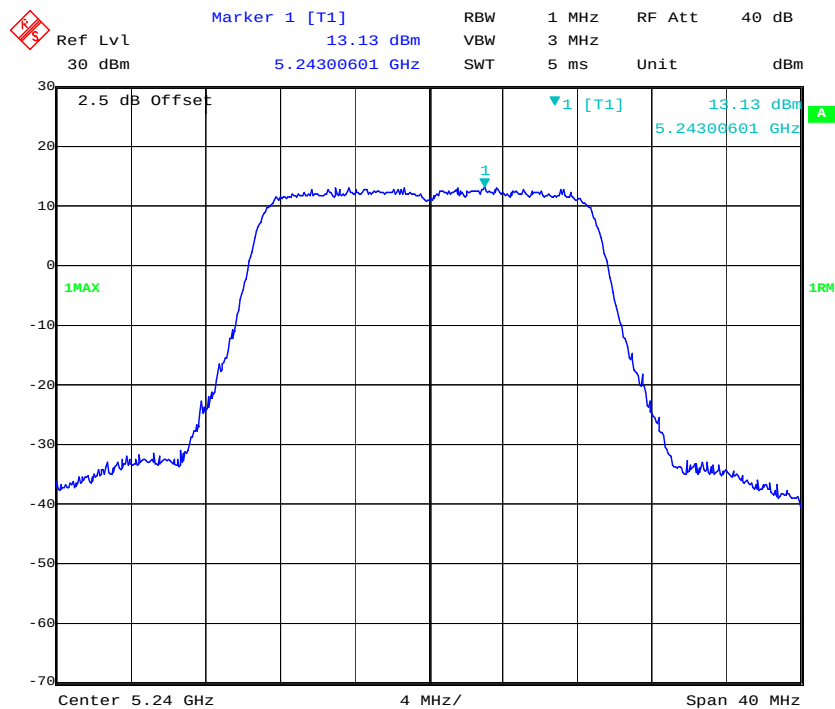
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802.11a High Channel – Chain1



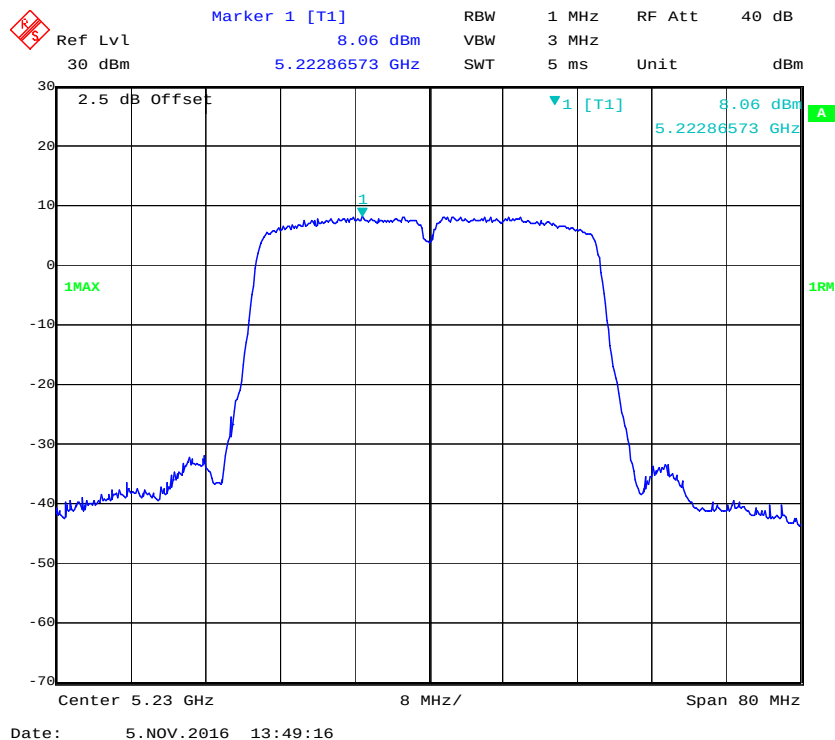
Date: 5.NOV.2016 13:34:06

802.11n ht20 High Channel – Chain1

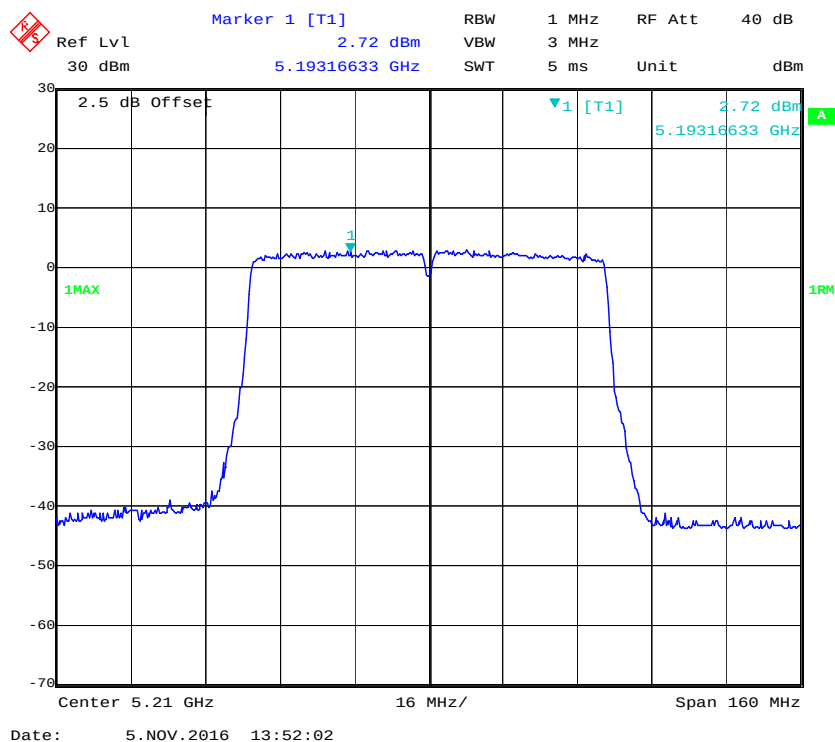


Date: 5.NOV.2016 13:37:18

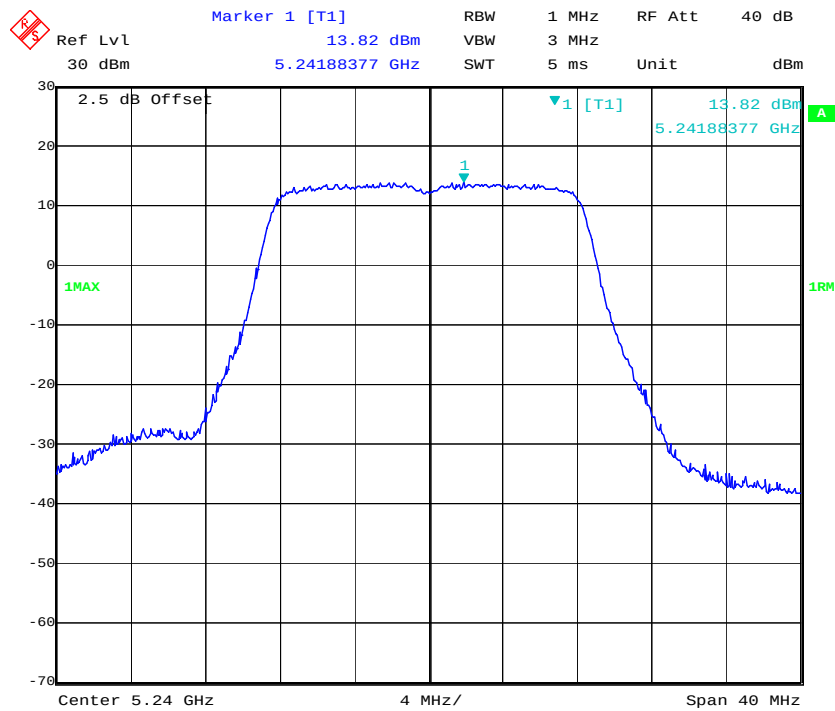
802.11n ht40 High Channel – Chain1



802.11 ac80 Middle Channel – Chain1

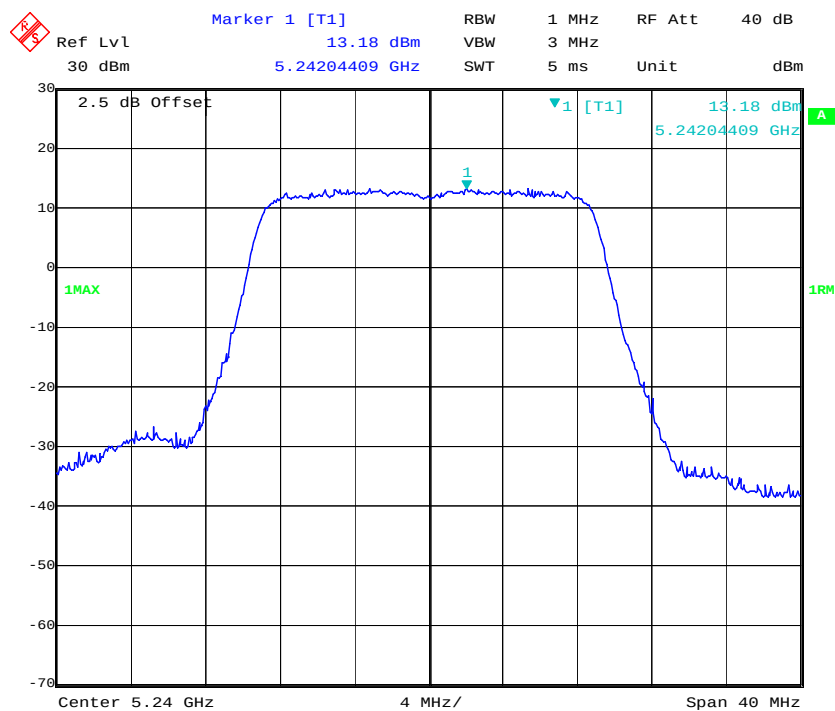


802.11a High Channel – Chain2



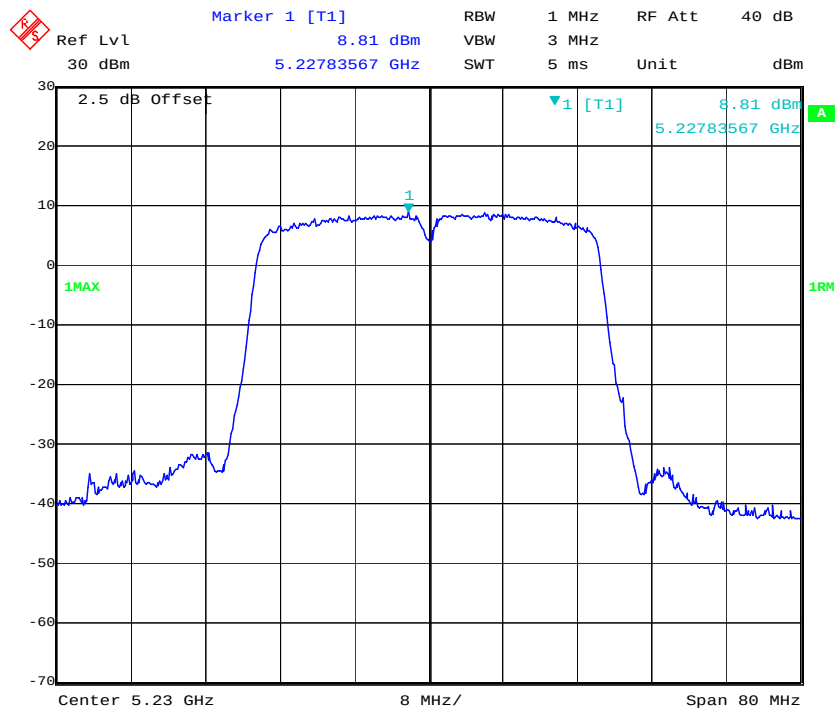
Date: 5.NOV.2016 14:28:47

802.11n ht20 High Channel – Chain2

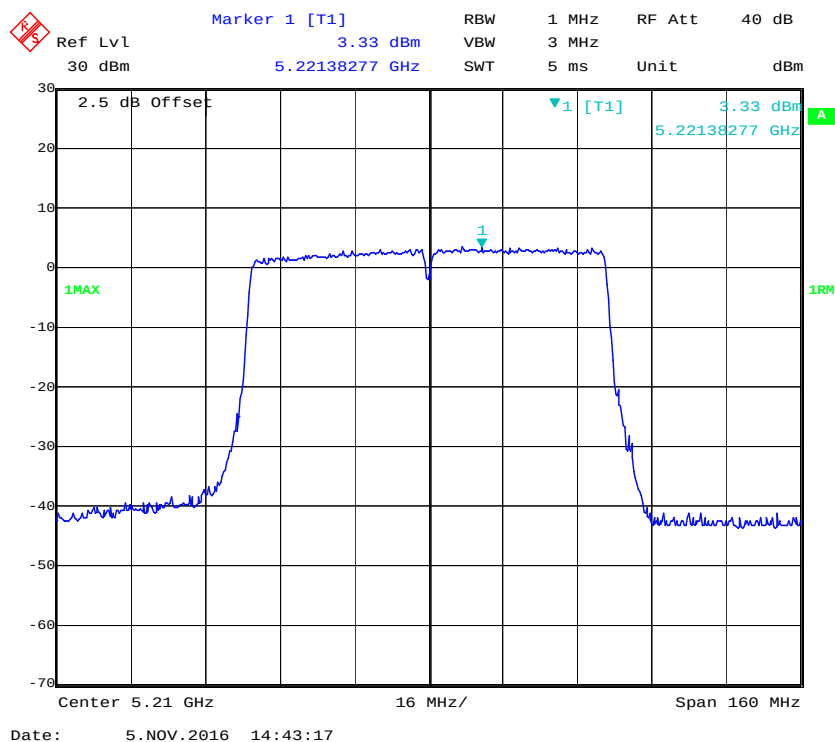


Date: 5.NOV.2016 14:31:31

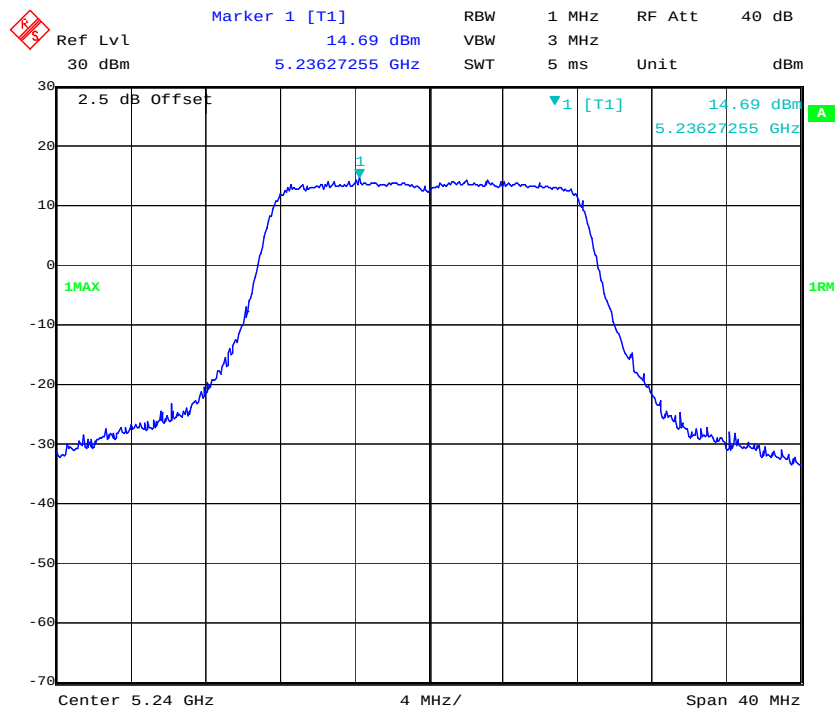
802.11n ht40 High Channel – Chain2



802.11 ac80 Middle Channel – Chain2

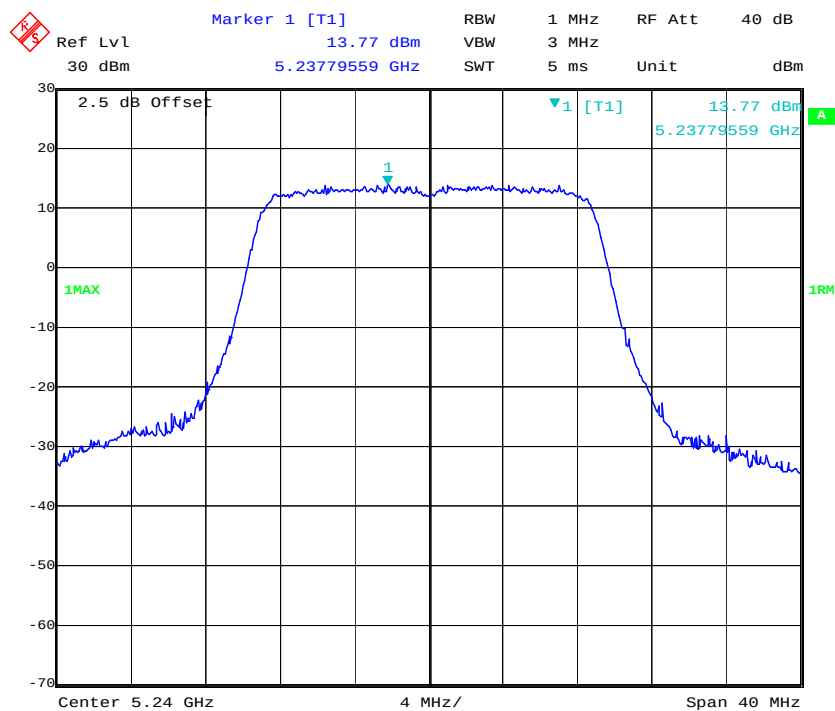


802.11a High Channel – Chain3



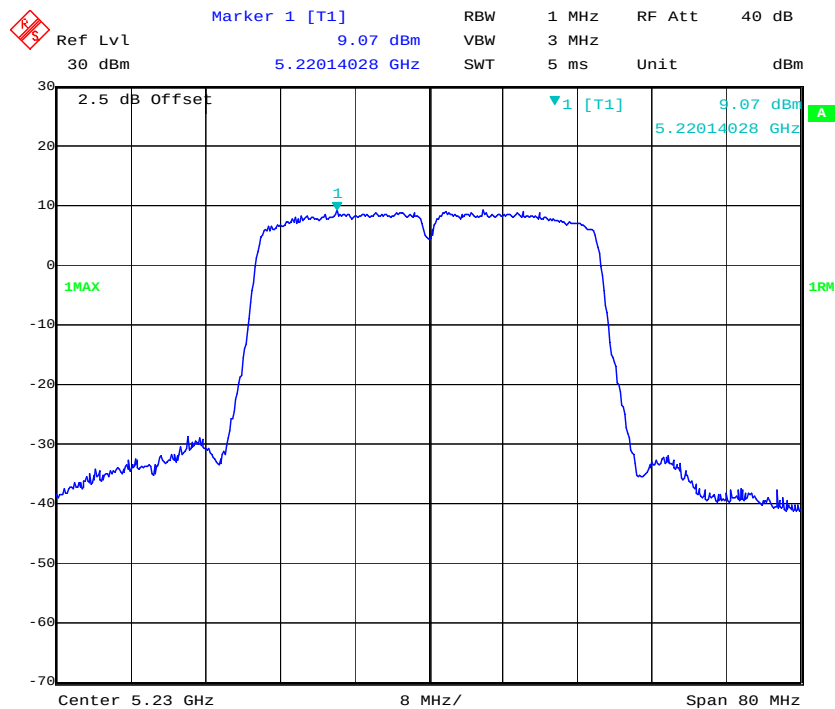
Date: 5.NOV.2016 15:22:10

802.11n ht20 High Channel – Chain3



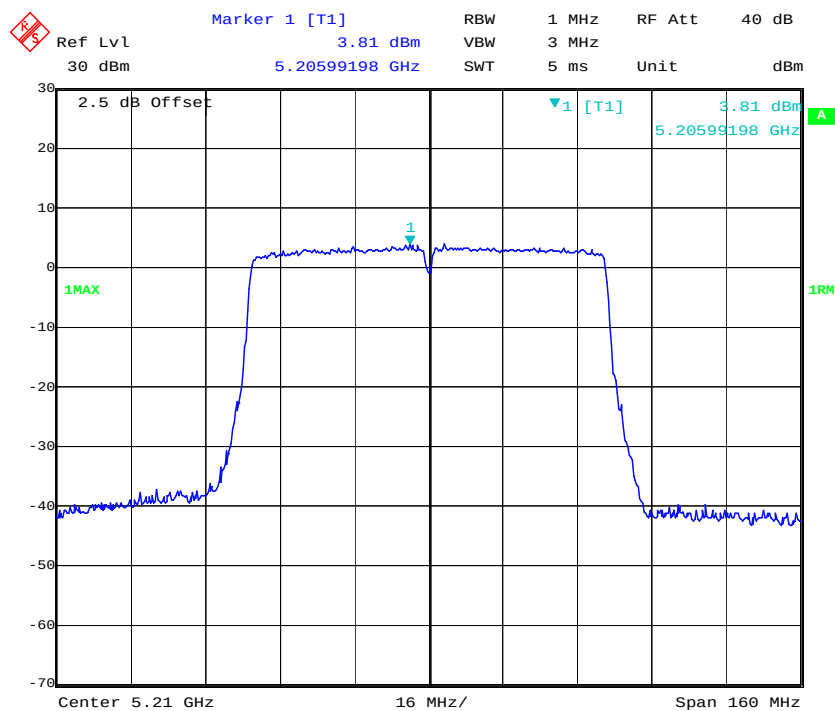
Date: 5.NOV.2016 15:24:33

802.11n ht40 High Channel – Chain3



Date: 5.NOV.2016 15:32:25

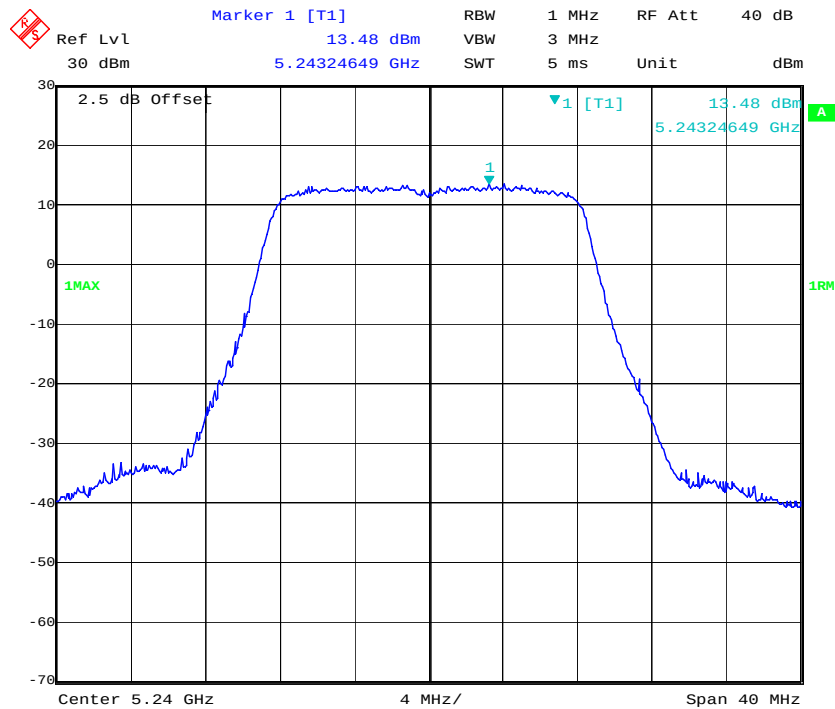
802.11 ac80 Middle Channel – Chain3



Date: 5.NOV.2016 15:34:39

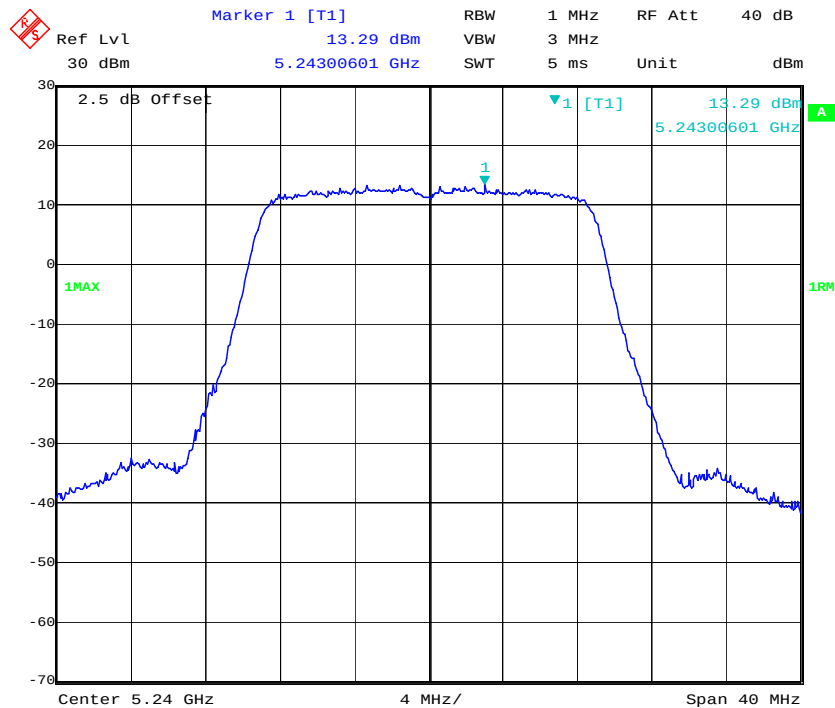
MIMO-2TX:

802.11a High Channel – Chain0



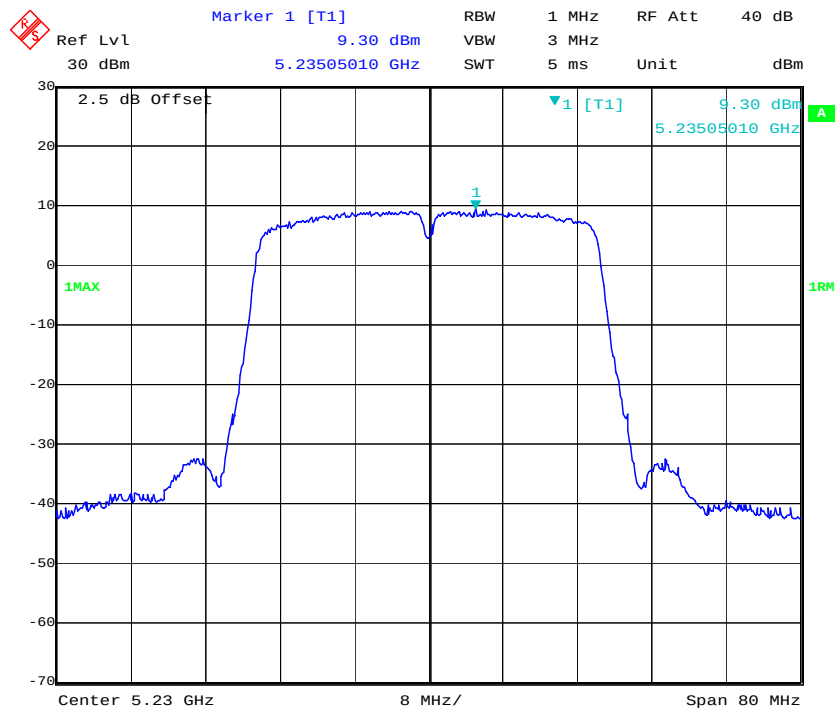
Date: 8.NOV.2016 10:04:24

802.11n ht20 High Channel – Chain0

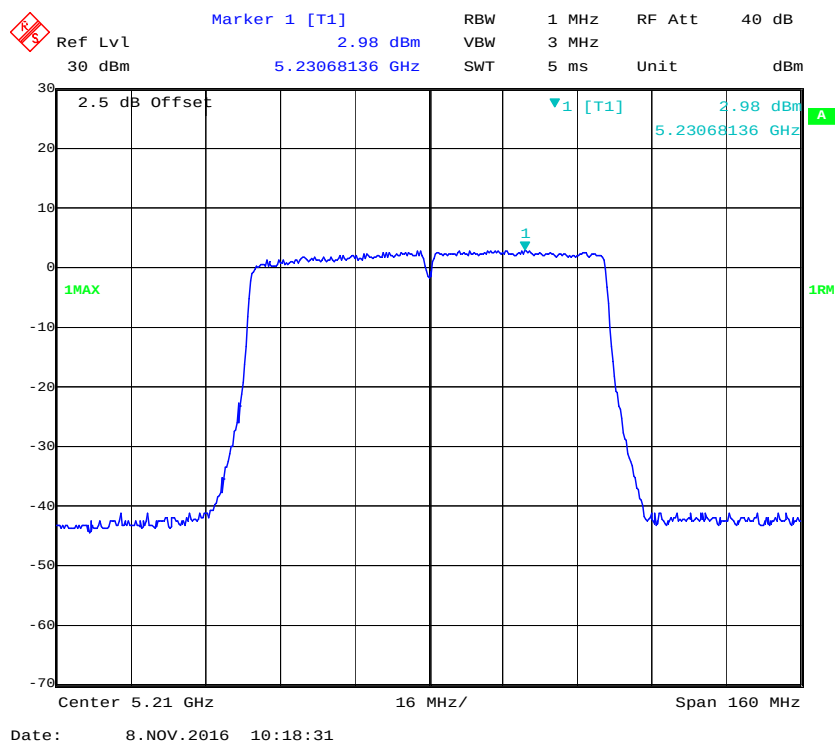


Date: 8.NOV.2016 10:06:28

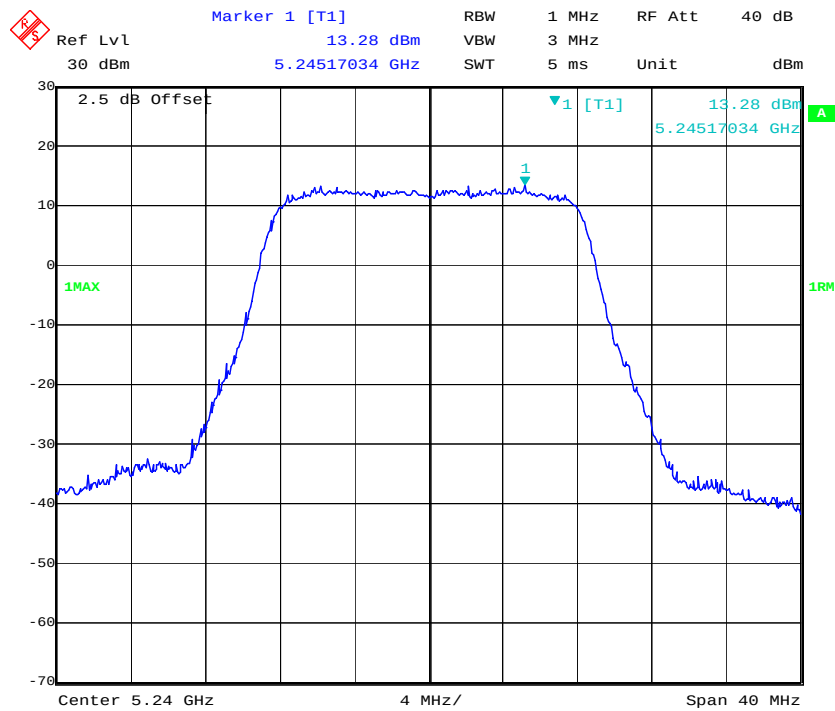
802.11n ht40 High Channel – Chain0



802.11 ac80 Middle Channel – Chain0

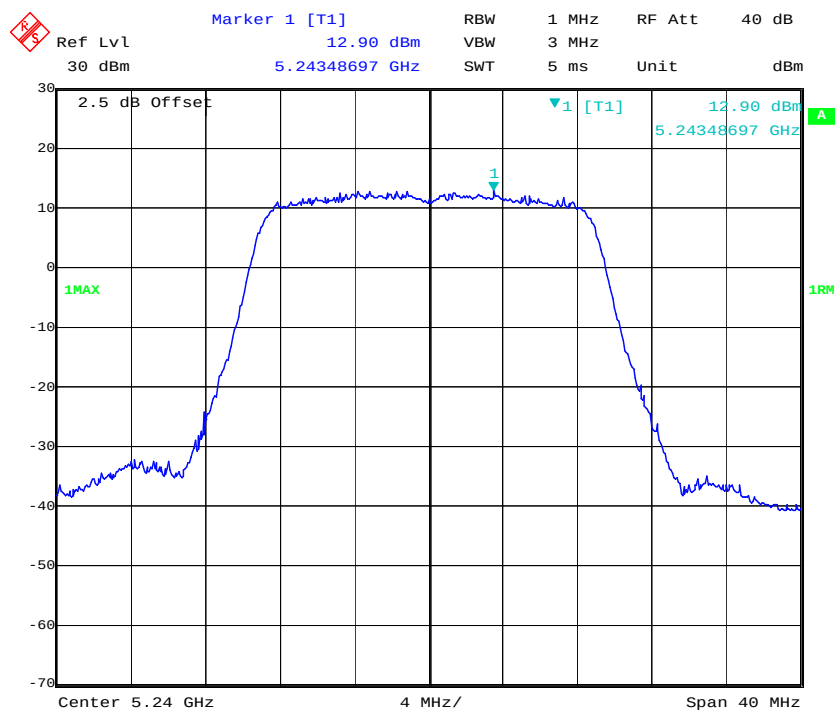


802.11a High Channel – Chain1



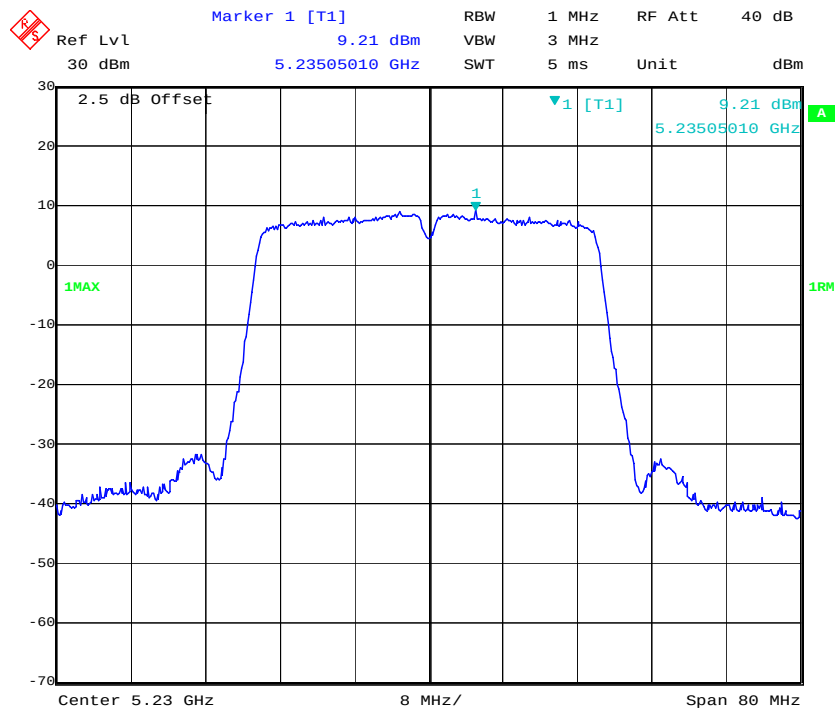
Date: 8.NOV.2016 10:48:13

802.11n ht20 High Channel – Chain1



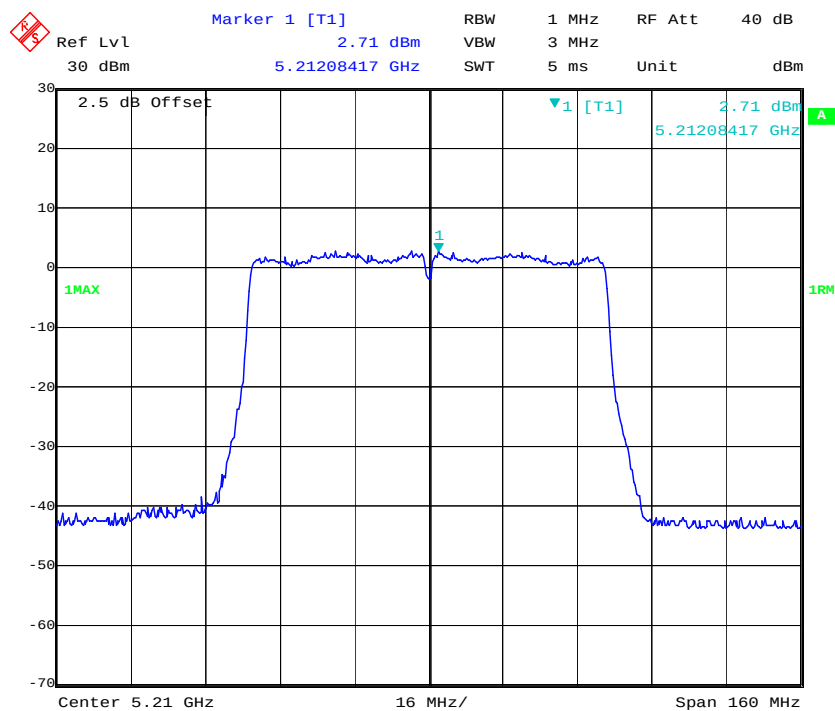
Date: 8.NOV.2016 10:51:08

802.11n ht40 High Channel – Chain1



Date: 8.NOV.2016 10:25:17

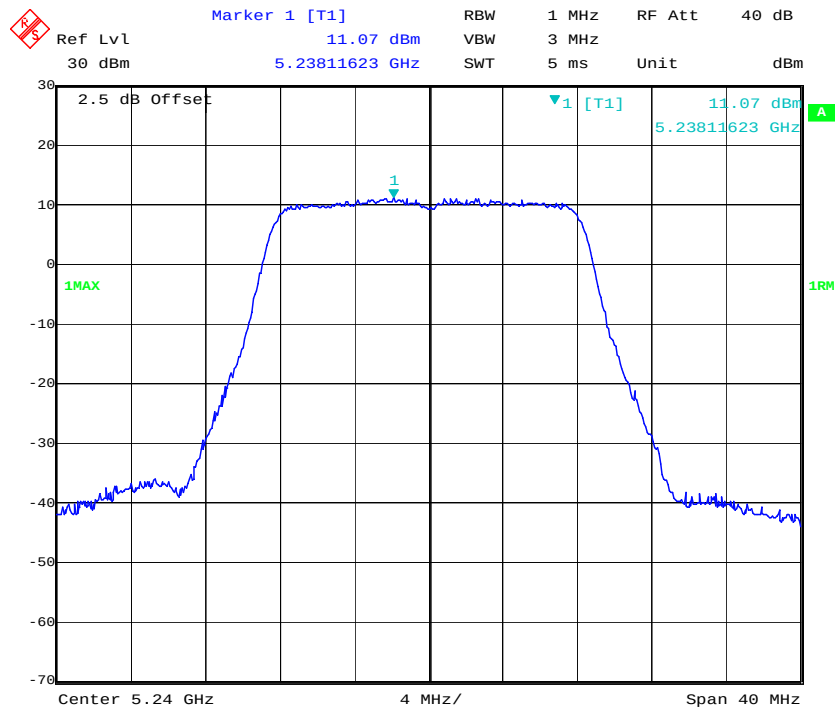
802.11 ac80 Middle Channel – Chain1



Date: 8.NOV.2016 10:20:28

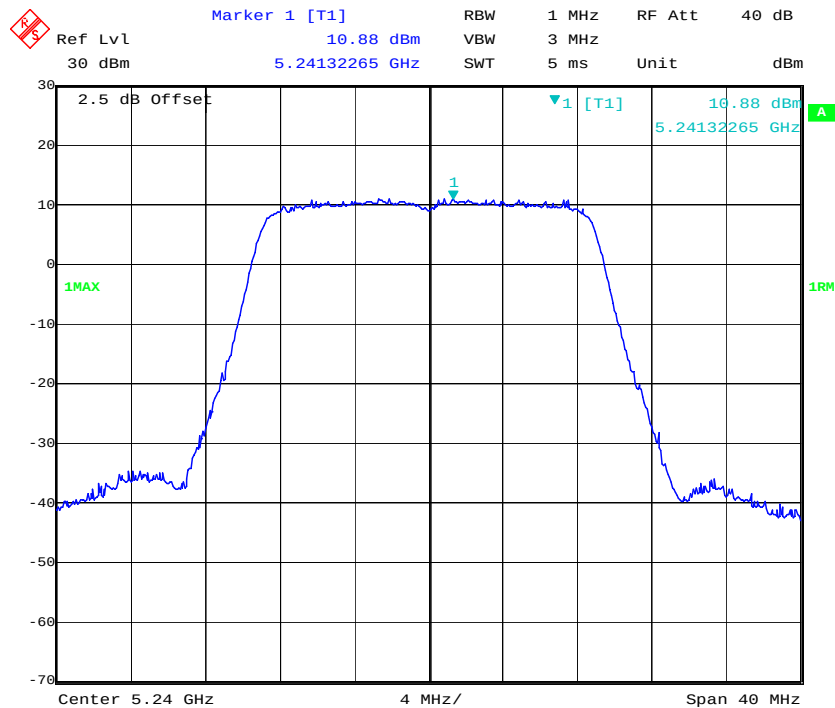
MIMO-3TX:

802.11a High Channel – Chain0



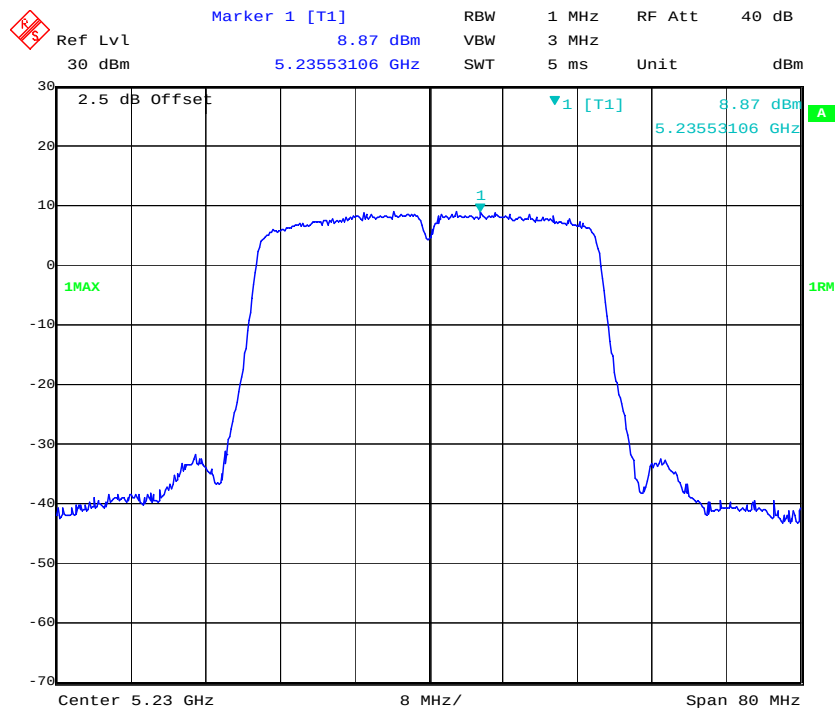
Date: 8.NOV.2016 14:12:27

802.11n ht20 High Channel – Chain0



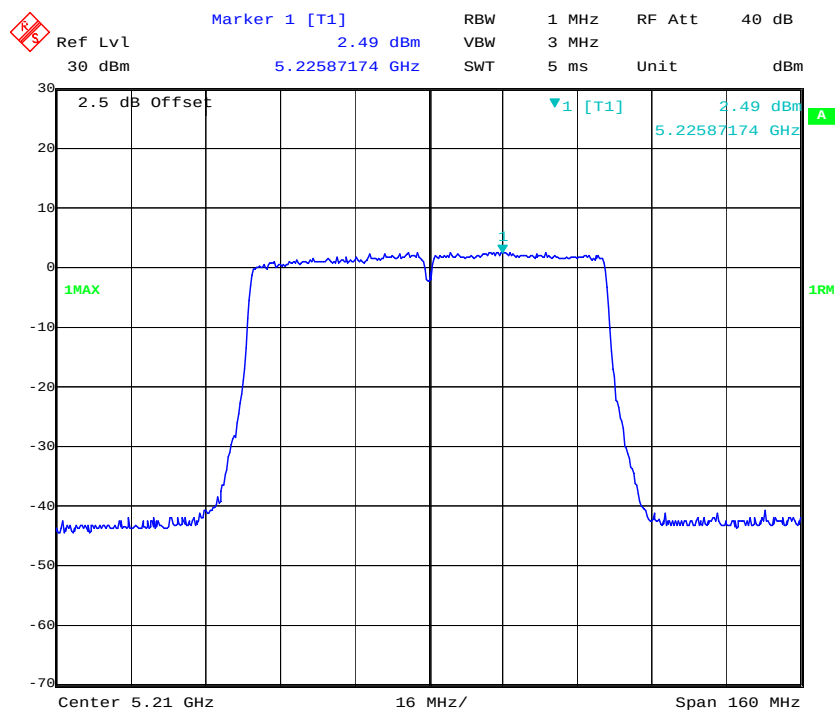
Date: 22.NOV.2016 17:38:01

802.11n ht40 High Channel – Chain0



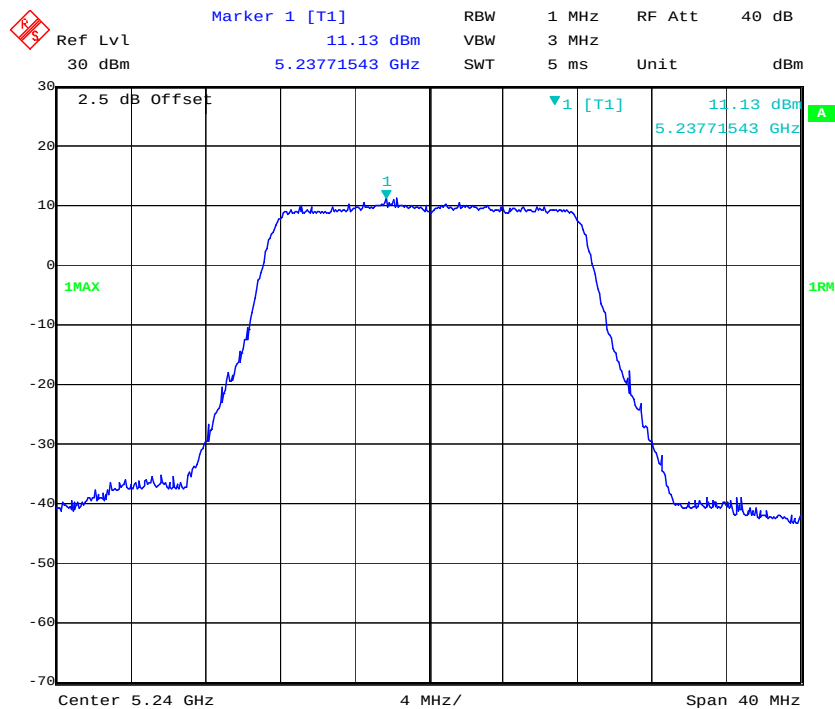
Date: 8.NOV.2016 14:43:33

802.11 ac80 Middle Channel – Chain0



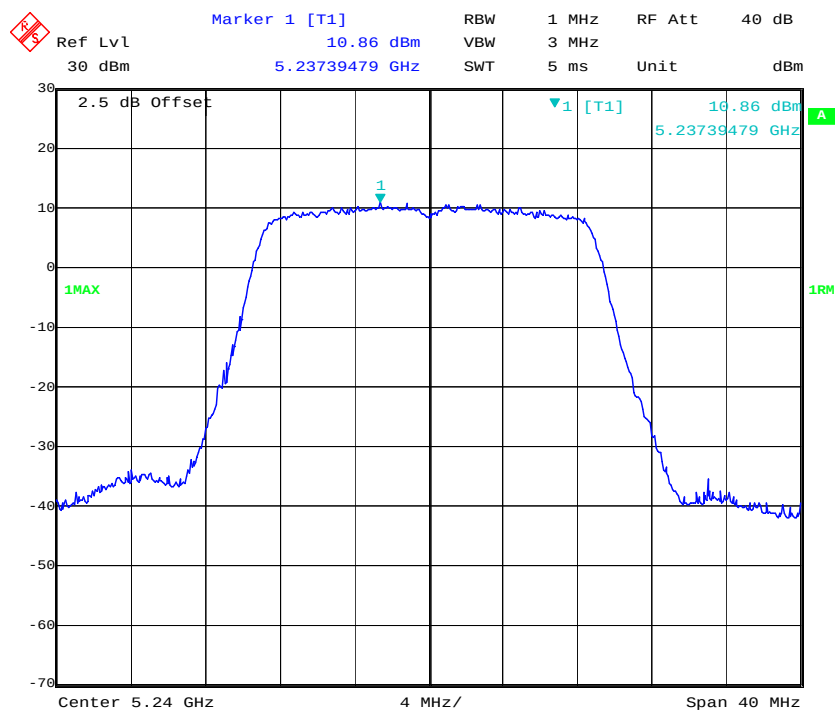
Date: 8.NOV.2016 15:00:16

802.11a High Channel – Chain1



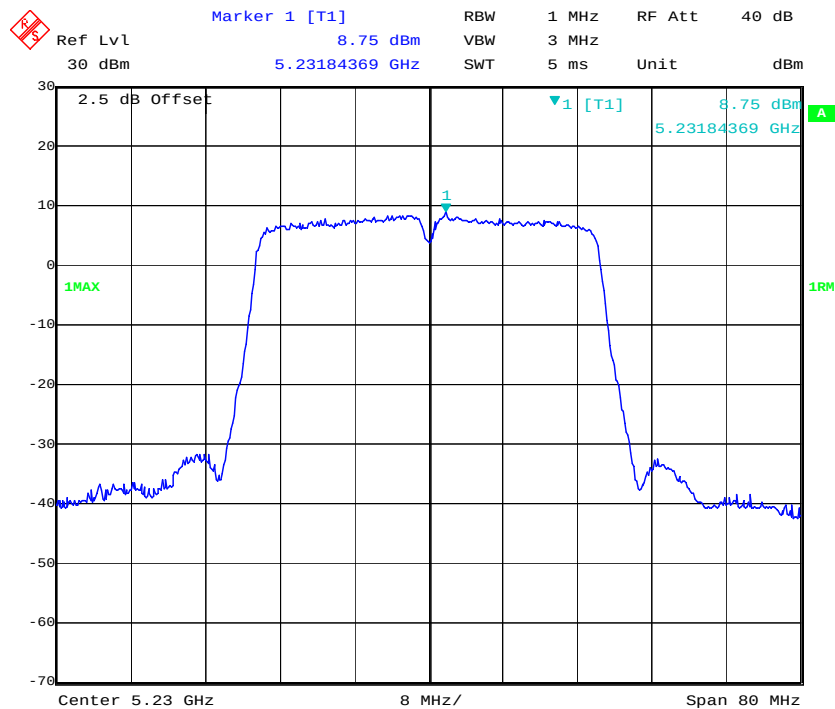
Date: 8.NOV.2016 14:08:01

802.11n ht20 High Channel – Chain1



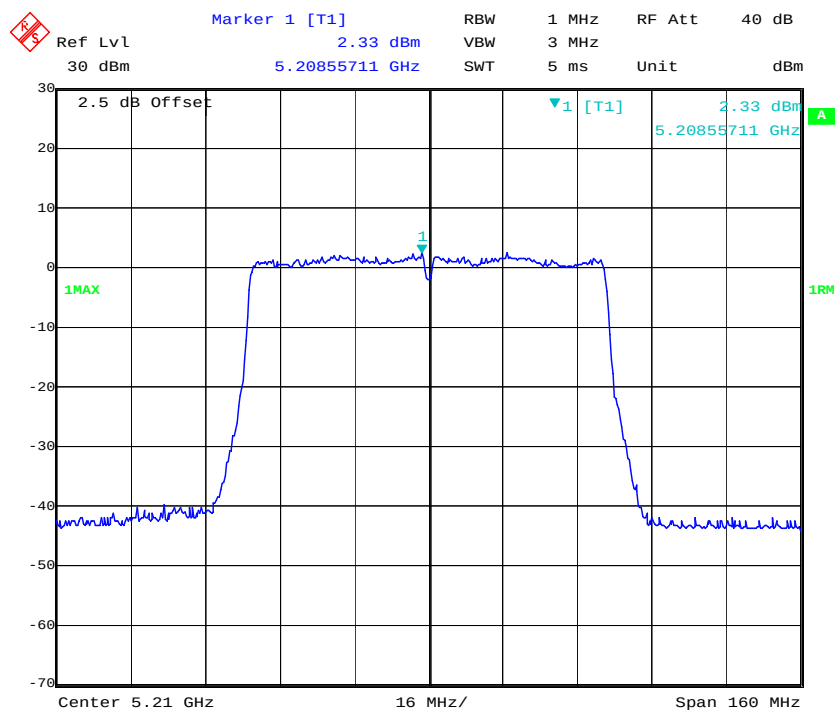
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802.11n ht40 High Channel – Chain1



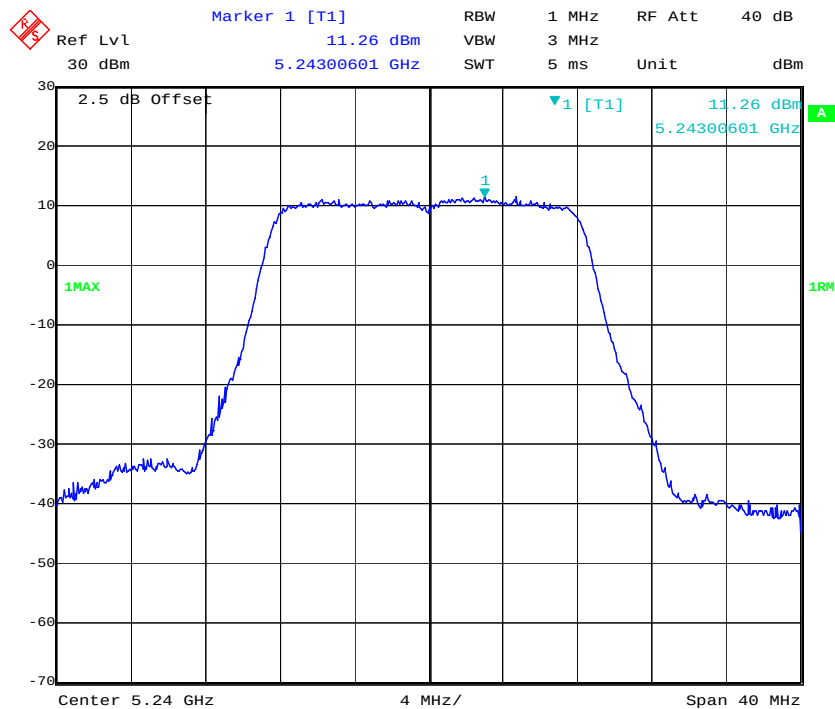
Date: 8.NOV.2016 14:45:39

802.11 ac80 Middle Channel – Chain1



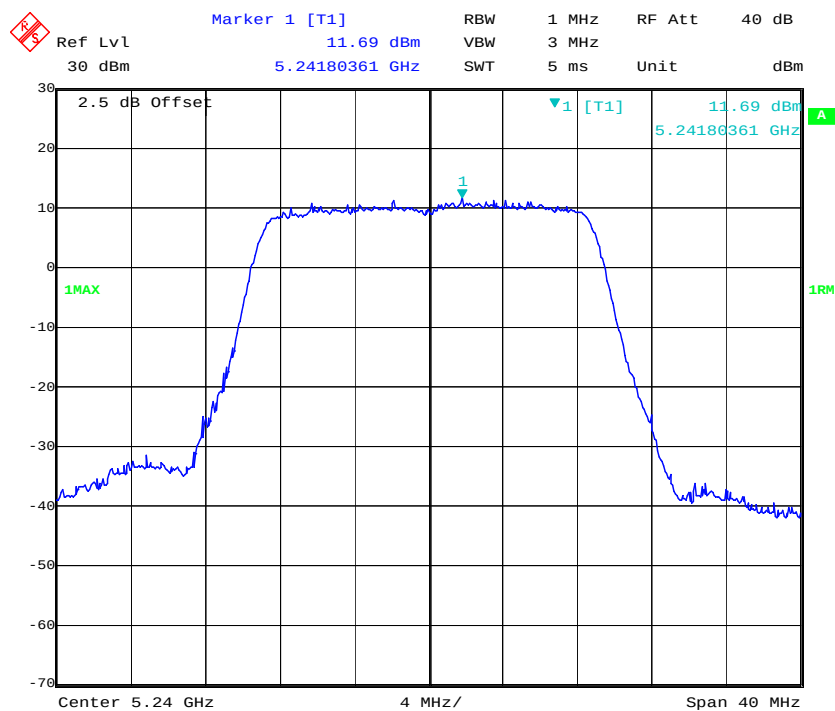
Date: 8.NOV.2016 14:58:29

802.11a High Channel – Chain2



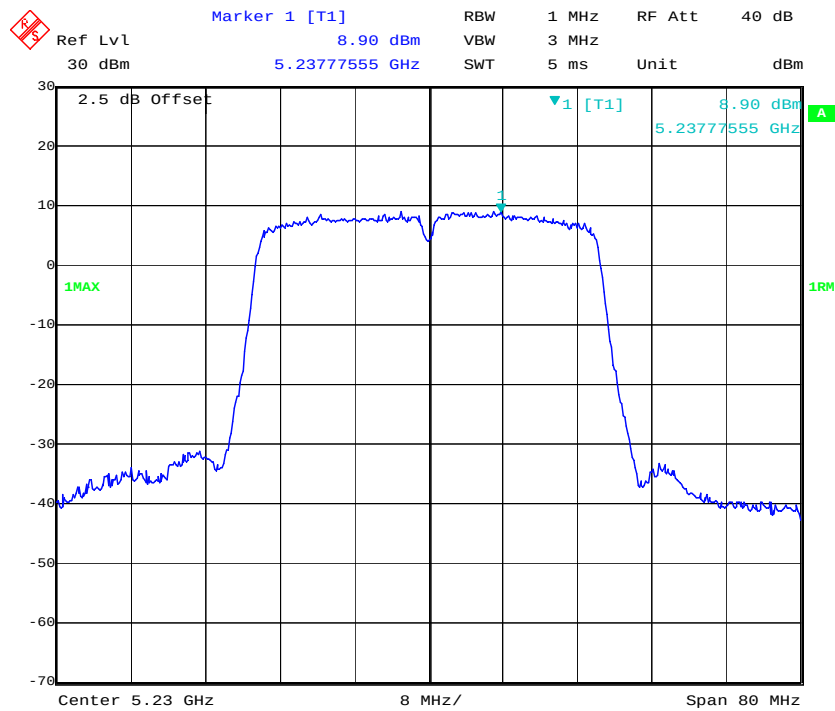
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802.11n ht20 High Channel – Chain2



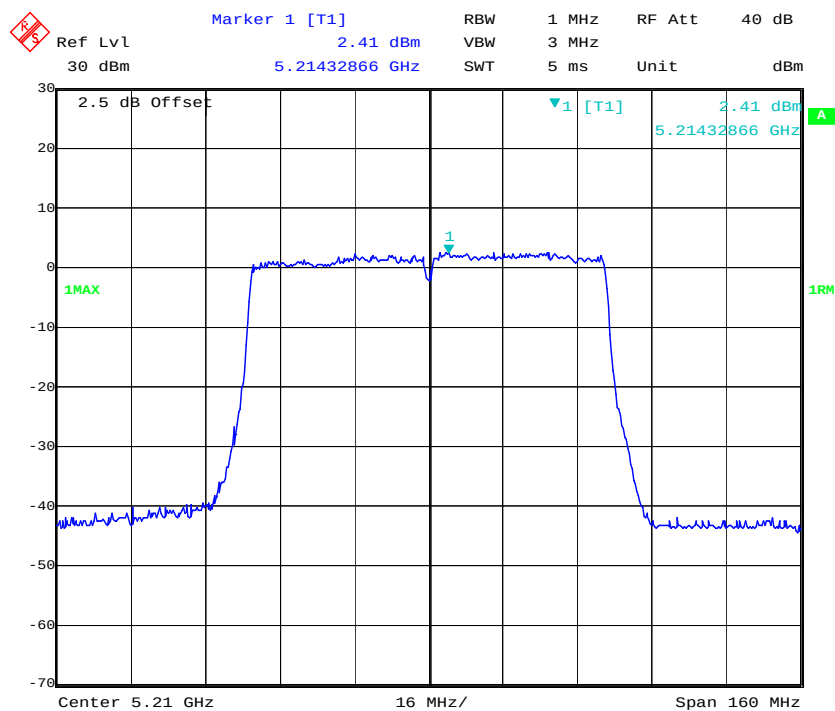
Date: 22.NOV.2016 17:35:23

802.11n ht40 High Channel – Chain2



Date: 8.NOV.2016 14:52:13

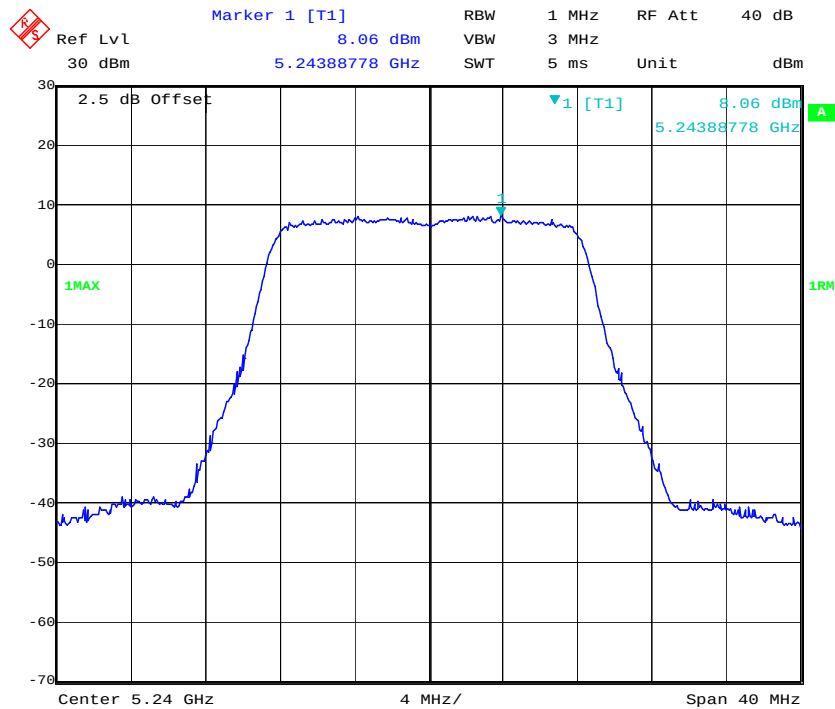
802.11 ac80 Middle Channel – Chain2



Date: 8.NOV.2016 14:56:47

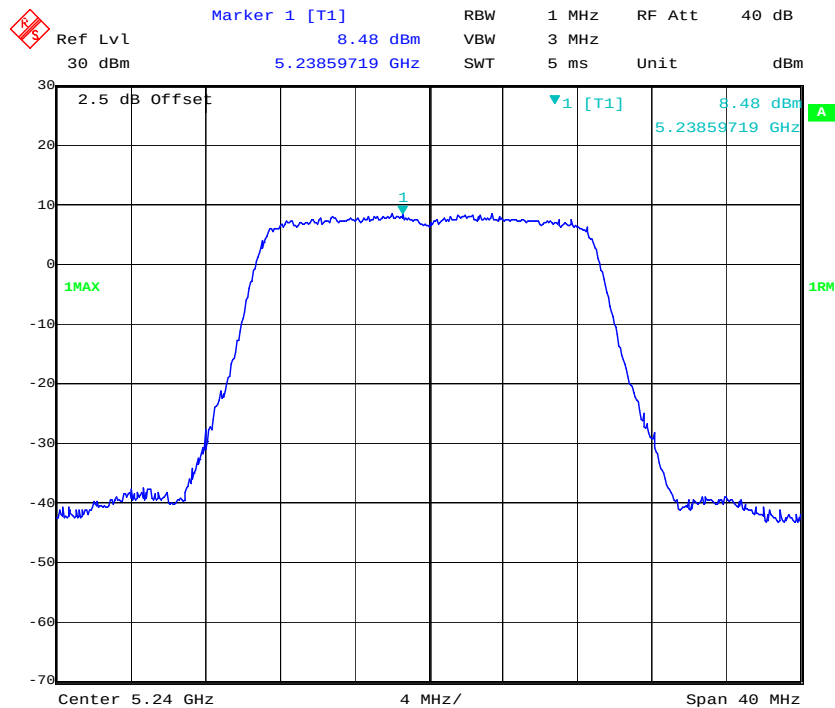
MIMO-4T4R:

802.11a High Channel – Chain0



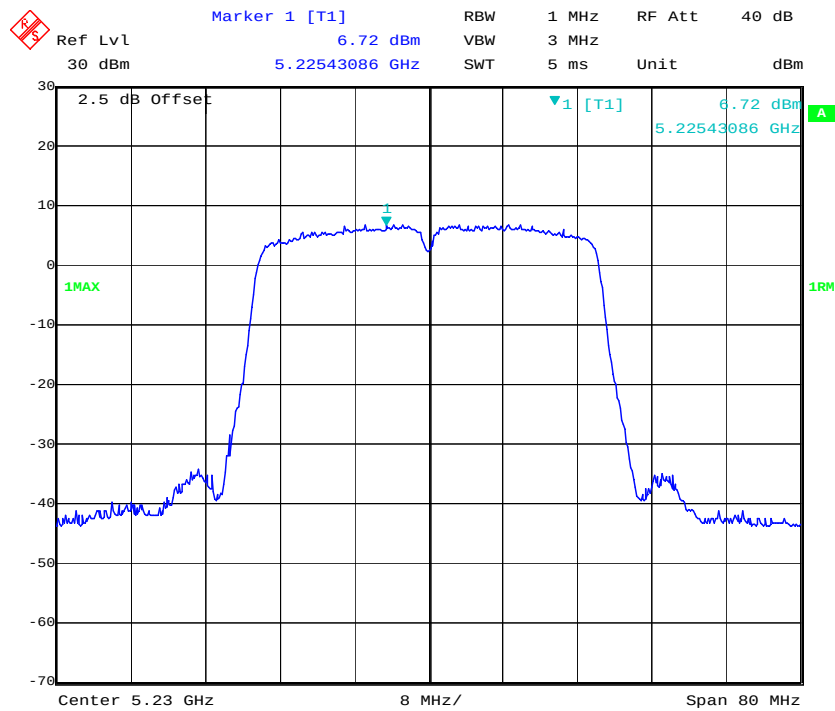
Date: 22.NOV.2016 18:08:22

802.11n ht20 High Channel – Chain0

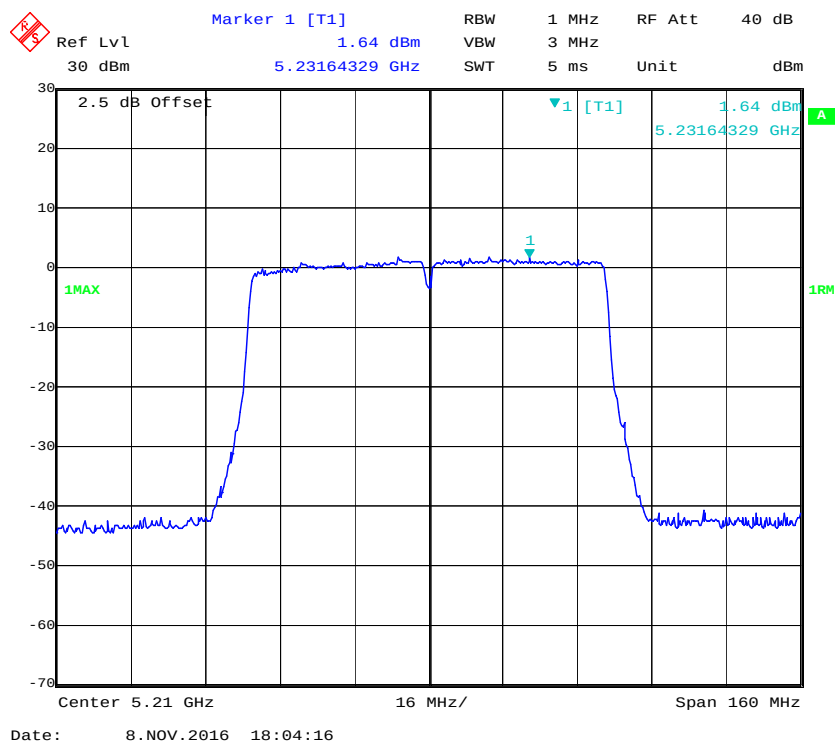


Date: 22.NOV.2016 18:04:42

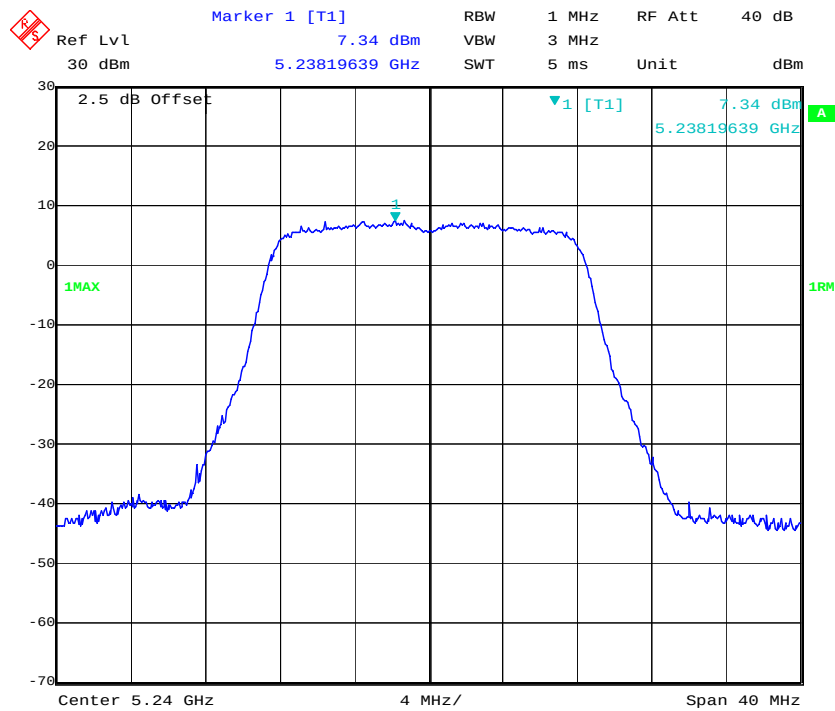
802.11n ht40 High Channel – Chain0



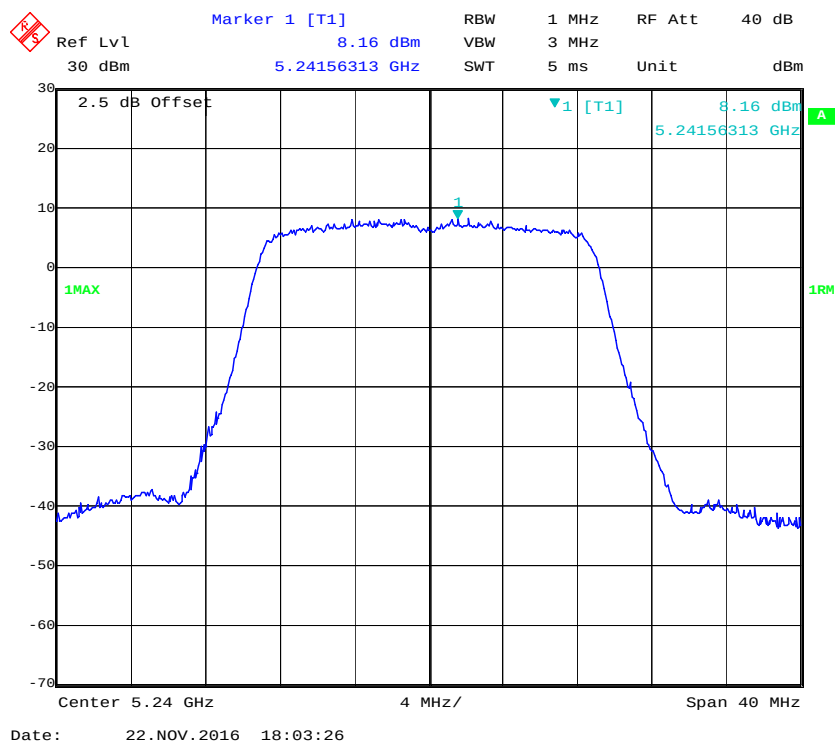
802.11 ac80 Middle Channel – Chain0



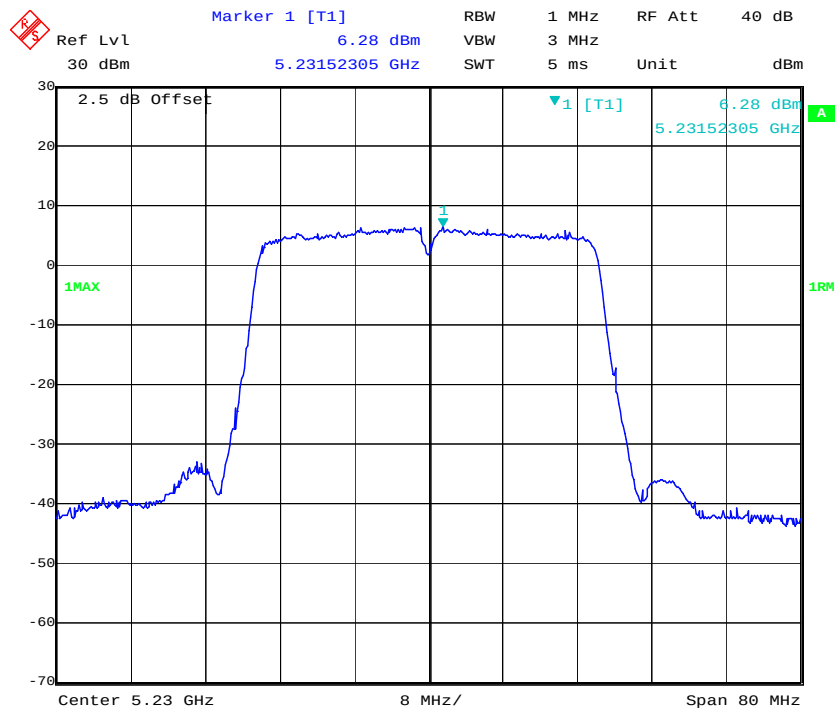
802.11a High Channel – Chain1



802.11n ht20 High Channel – Chain1

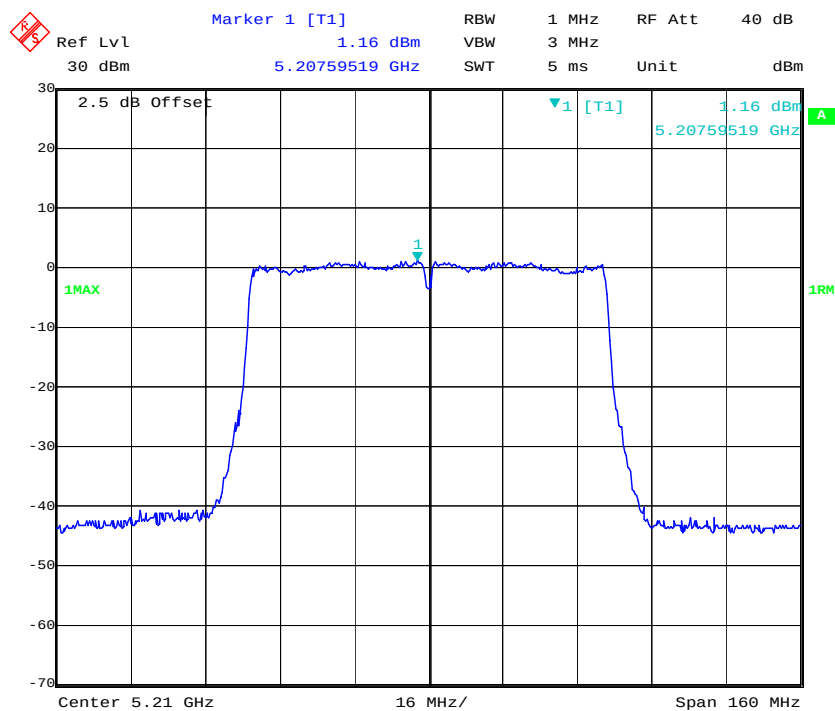


802.11n ht40 High Channel – Chain1



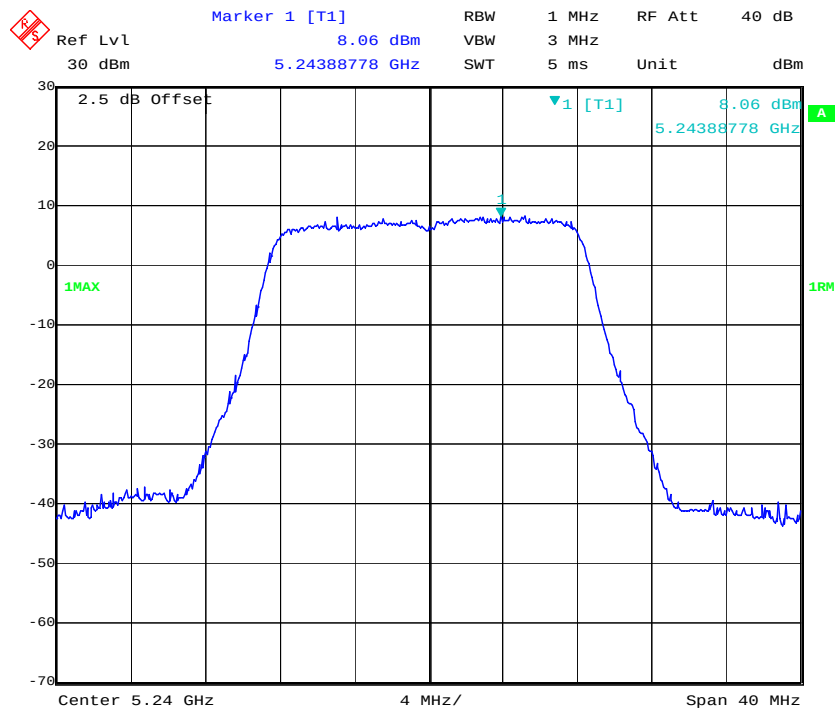
Date: 8.NOV.2016 17:57:49

802.11 ac80 Middle Channel – Chain1



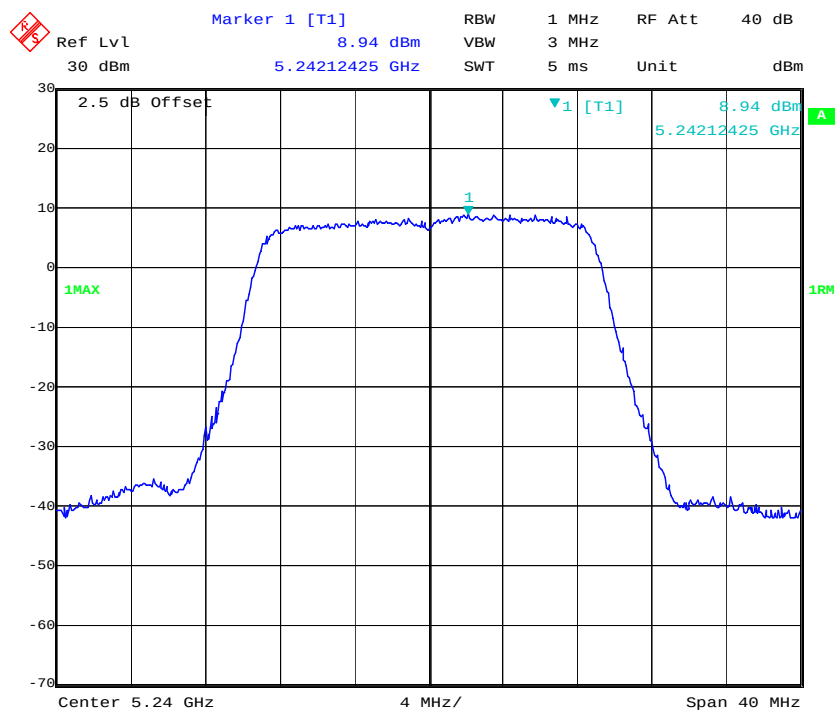
Date: 8.NOV.2016 18:06:04

802.11a High Channel – Chain2



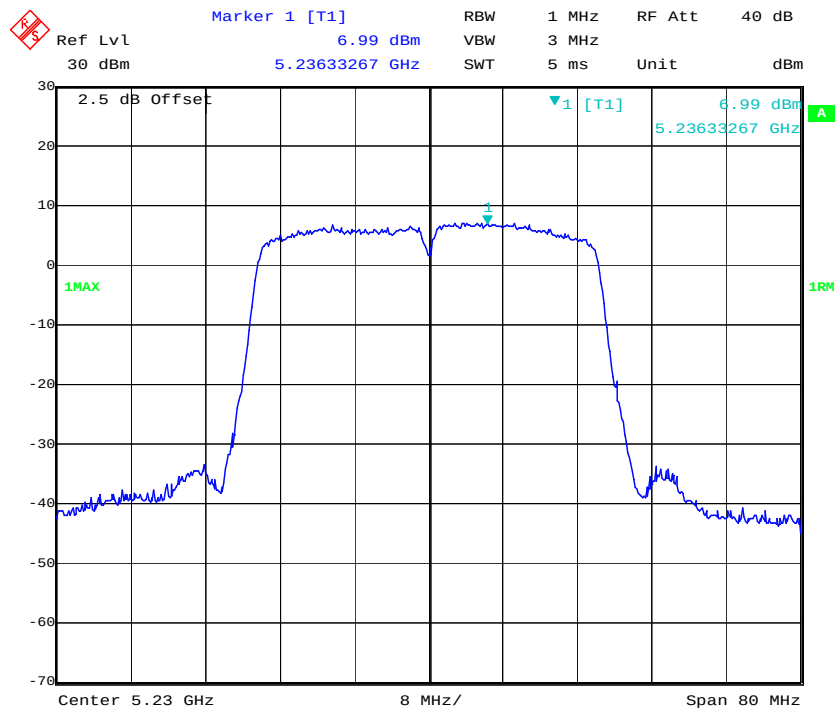
Date: 22.NOV.2016 18:11:02

802.11n ht20 High Channel – Chain2

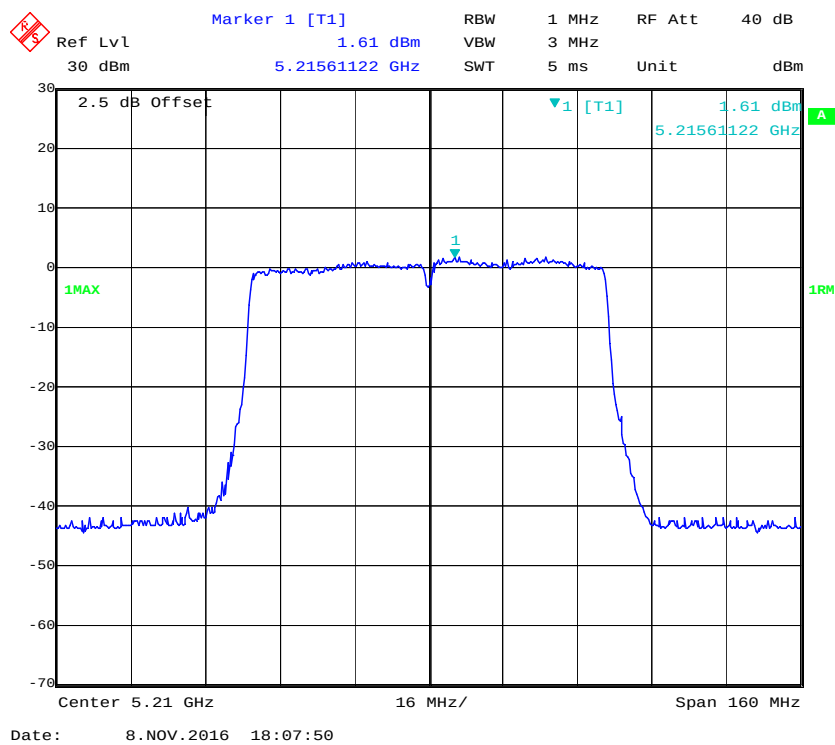


Date: 22.NOV.2016 18:02:09

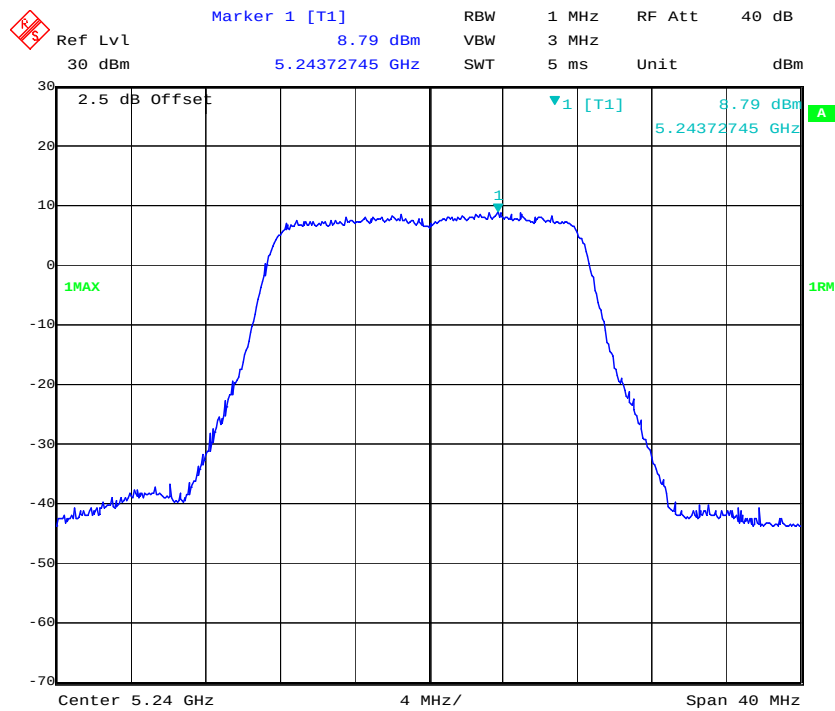
802.11n ht40 High Channel – Chain2



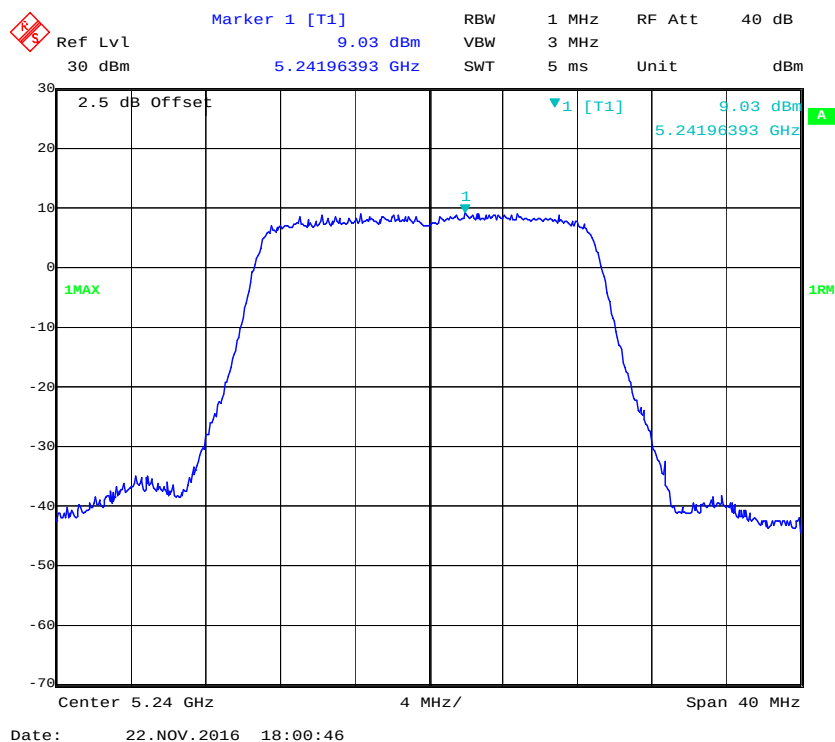
802.11 ac80 Middle Channel – Chain2



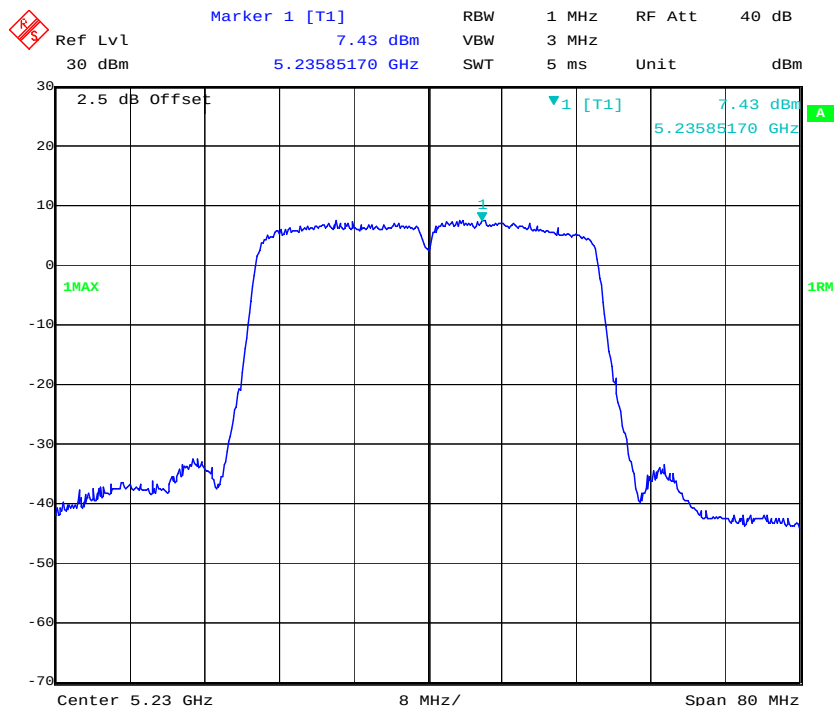
802.11a High Channel – Chain3



802.11n ht20 High Channel – Chain3

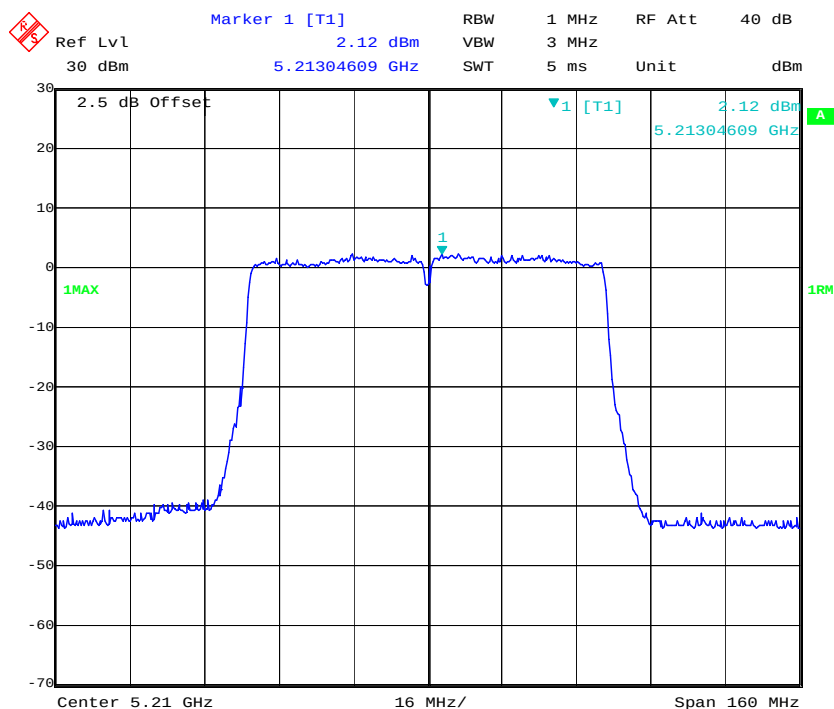


802.11n ht40 High Channel – Chain3



Date: 8.NOV.2016 17:52:02

802.11 ac80 Middle Channel – Chain3



Date: 8.NOV.2016 18:09:42

**5250-5350MHz:
SISO:**

Mode	Frequency (MHz)	Test Data (dBm/MHz)				Duty Cycle Factor (dB)	Power Spectral Density (dBm/MHz)				Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3		Chain 0	Chain 1	Chain 2	Chain 3	
802.11 a	5260	10.78	10.36	10.48	10.78	0	10.78	10.36	10.48	10.78	11
	5280	10.57	10.93	10.63	10.97	0	10.57	10.93	10.63	10.97	11
	5320	10.25	10.77	10.85	10.89	0	10.25	10.77	10.85	10.89	11
802.11 n20	5260	9.97	10.45	10.18	10.24	0	9.97	10.45	10.18	10.24	11
	5280	10.25	10.29	10.36	10.52	0	10.25	10.29	10.36	10.52	11
	5320	10.13	10.8	9.96	10.62	0	10.13	10.8	9.96	10.62	11
802.11 n40	5270	10.14	10.14	10.22	10.35	0	10.14	10.14	10.22	10.35	11
	5310	9.89	9.92	8.75	9.48	0	9.89	9.92	8.75	9.48	11
802.11 ac80	5290	4.66	4.11	4.41	4.97	0.15	4.81	4.26	4.56	5.12	11

MIMO-2TX:

Mode	Frequency (MHz)	Test Data (dBm/MHz)		Total (dBm/MHz)	Duty Cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1				
802.11 a	5260	7.74	7.47	10.62	0	10.62	11
	5280	7.4	7.41	10.42	0	10.42	11
	5320	7.4	8.09	10.77	0	10.77	11
802.11 n20	5260	7.57	6.94	10.28	0	10.28	11
	5280	7.82	7.34	10.6	0	10.6	11
	5320	7.17	7.49	10.34	0	10.34	11
802.11 n40	5270	8.05	7.65	10.86	0	10.86	11
	5310	8.13	7.69	10.93	0	10.93	11
802.11 ac80	5290	4.97	4.51	7.76	0.15	7.91	11

Note: the device is a master device. the 3 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(\text{NANT}/\text{NSS})$ dB.

So:

Directional gain = GANT + Array Gain = $2 + 10 \cdot \log(2) = 5$ dBi < 6dBi

MIMO-3TX:

Mode	Frequency (MHz)	Test Data (dBm/MHz)			Total (dBm/MHz)	Duty Cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2				
802.11 a	5260	4.96	4.97	5.56	9.94	0	9.94	10.23
	5280	4.76	5.03	4.8	9.64	0	9.64	10.23
	5320	4.95	5.41	5.26	9.98	0	9.98	10.23
802.11 n20	5260	5.02	5.07	5.63	10.02	0	10.02	10.23
	5280	4.62	4.86	5.06	9.62	0	9.62	10.23
	5320	4.58	5.27	5.31	9.84	0	9.84	10.23
802.11 n40	5270	4.69	4.39	4.61	9.34	0	9.34	10.23
	5310	4.83	4.46	5.28	9.64	0	9.64	10.23
802.11 ac80	5290	4.69	4.69	4.96	9.55	0.15	9.70	10.23

Note: the device is a master device. the 3 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(\text{NANT}/\text{NSS})$ dB.

So:

Directional gain = GANT + Array Gain = $2 + 10 \cdot \log(3) = 6.77$ dBi > 6dBi

Power density Limits = $11 - (6.77 - 6) = 10.23$ dBm/MHz

MIMO-4TX:

Mode	Frequency (MHz)	Power Spectral Density (dBm/MHz)				Total (dBm/MHz)	Duty Cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3				
802.11 a	5260	2.14	1.9	2.52	3.26	8.51	0	8.51	9
	5280	2.09	2.04	2.39	3.24	8.49	0	8.49	9
	5320	1.84	1.86	1.92	2.85	8.16	0	8.16	9
802.11 n20	5260	2.02	1.68	2.32	3.36	8.41	0	8.41	9
	5280	2.35	1.67	2.34	3.02	8.39	0	8.39	9
	5320	2.07	1.83	2.39	3.08	8.39	0	8.39	9
802.11 n40	5270	2.54	1.64	2.3	2.9	8.39	0	8.39	9
	5310	2.4	2.54	2.33	3.43	8.72	0	8.72	9
802.11 ac80	5290	2.1	2.38	2.3	3.38	8.59	0.15	8.74	9

Note: the device is a master device. the 4 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(\text{NANT}/\text{NSS})$ dB.

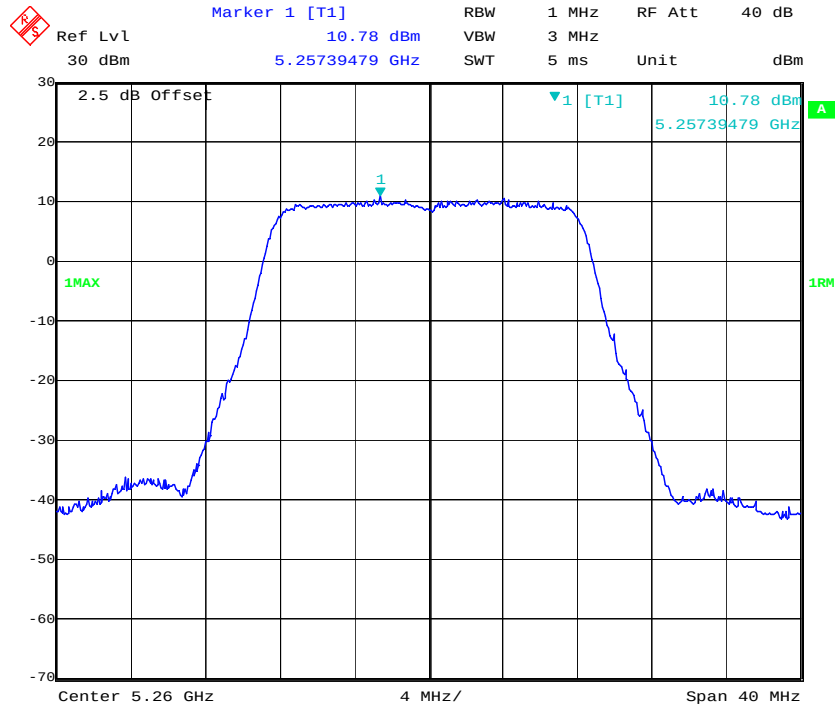
So:

Directional gain = GANT + Array Gain = $2 + 10 \cdot \log(4) = 8$ dBi > 6dBi

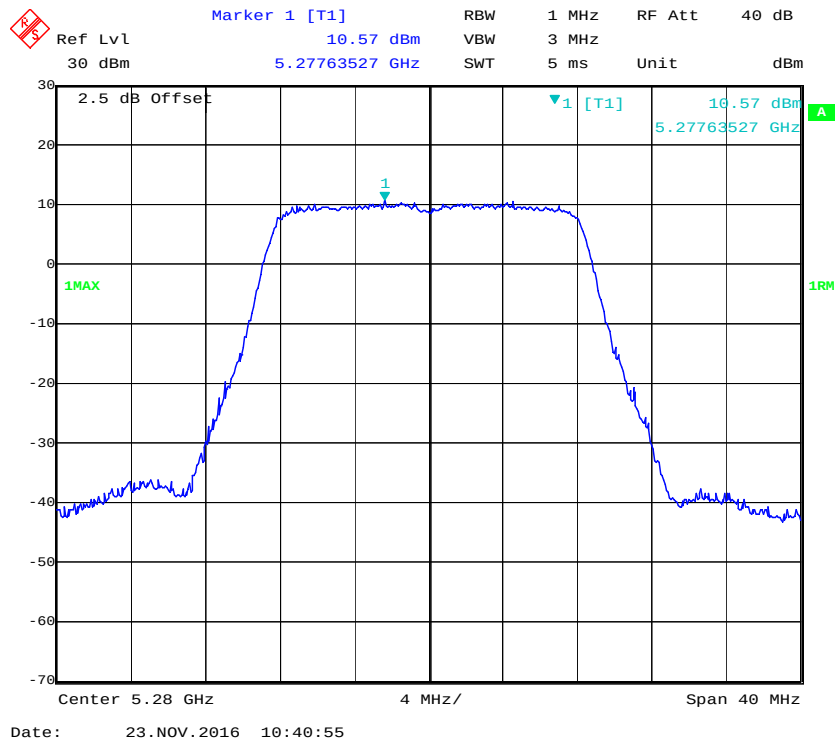
Power density Limits = $11 - (8 - 6) = 9$ dBm/MHz

5250MHz-5350MHz:
SISO:

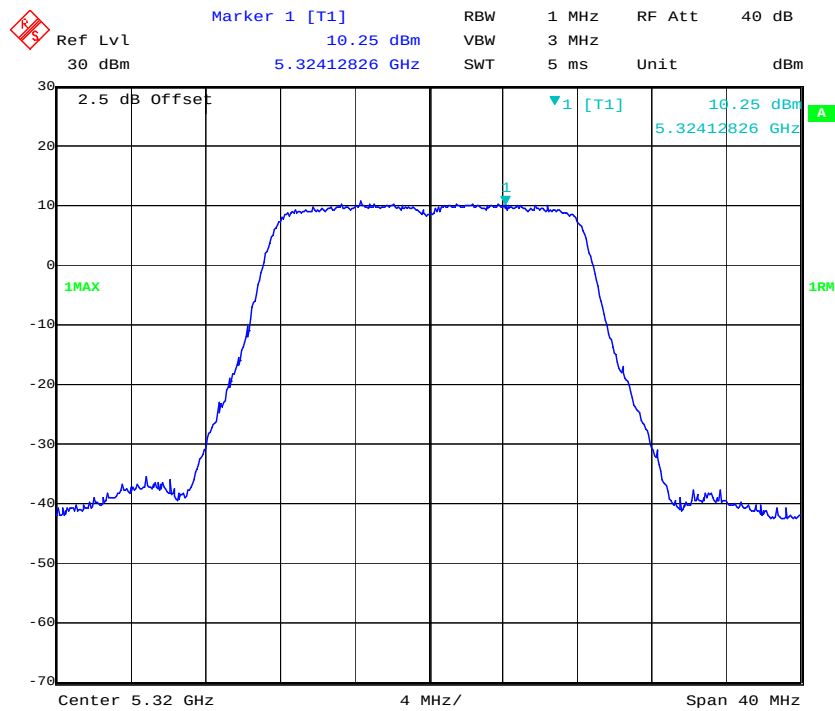
802.11a Low Channel – Chain0



802.11a Middle Channel – Chain0

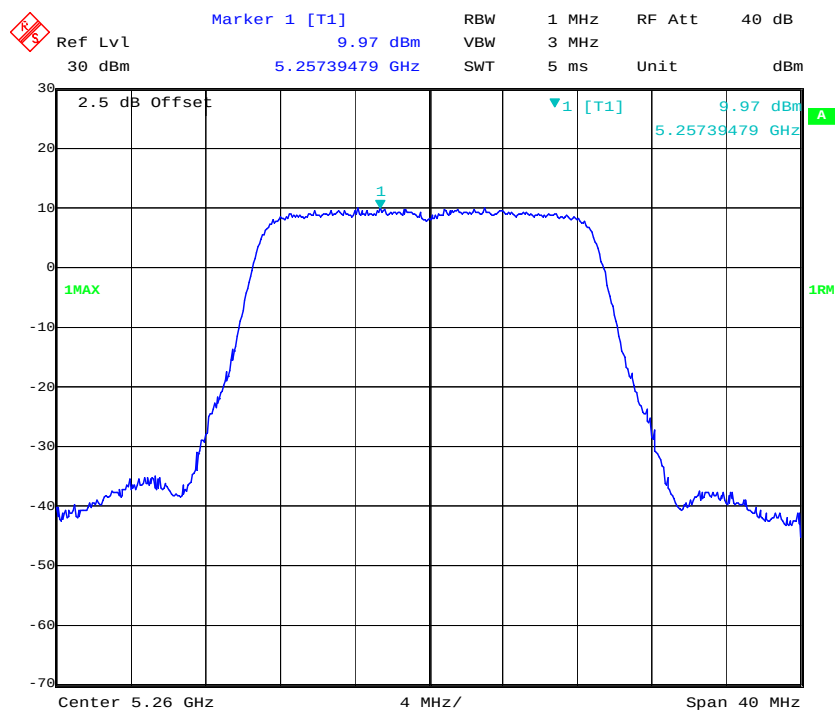


802.11a High Channel – Chain0



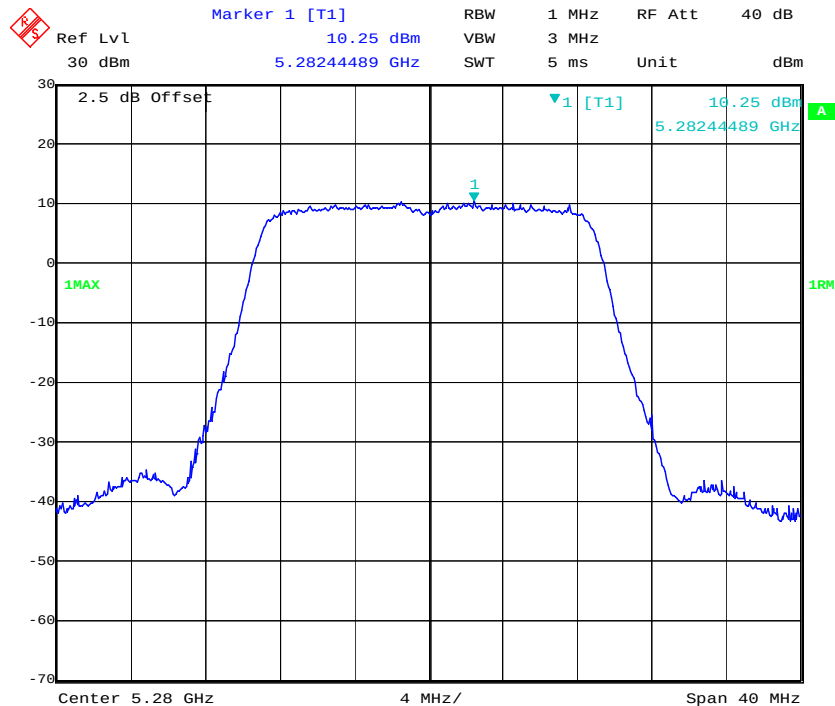
Date: 23.NOV.2016 10:43:33

802.11n ht20 Low Channel – Chain0



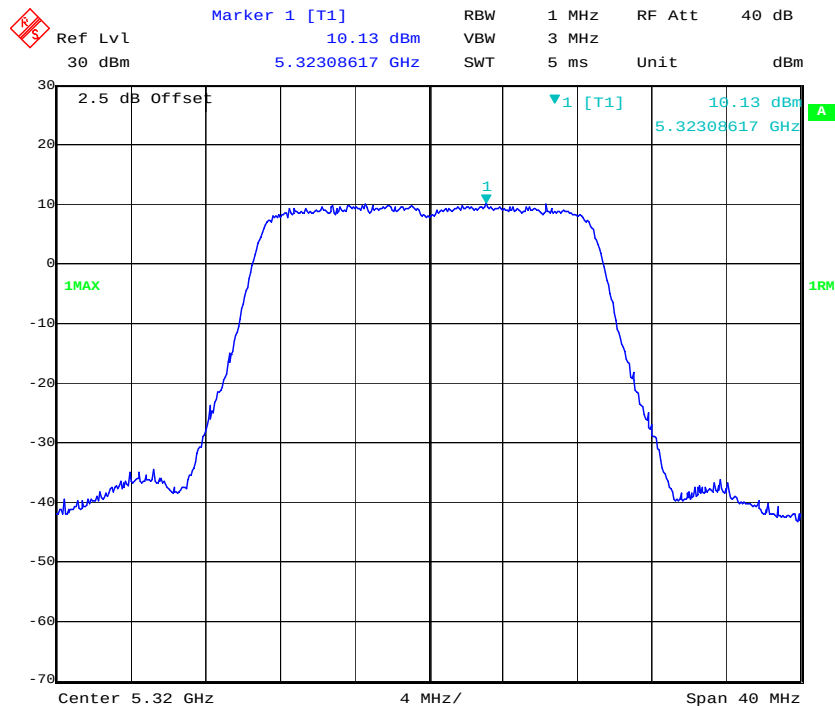
Date: 23.NOV.2016 11:39:07

802.11n ht20 Middle Channel – Chain0



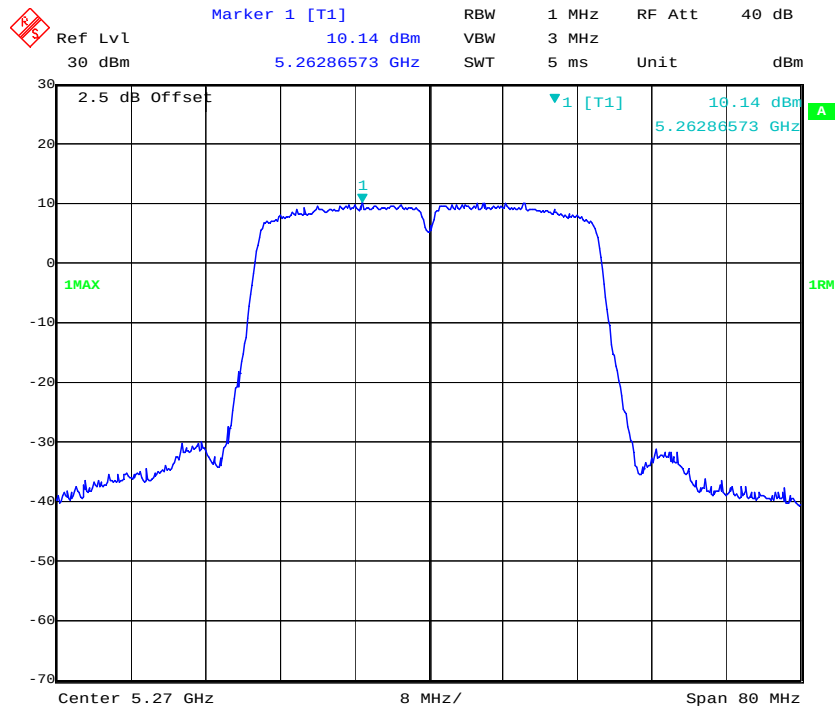
Date: 23.NOV.2016 11:35:38

802.11n ht20 High Channel – Chain0

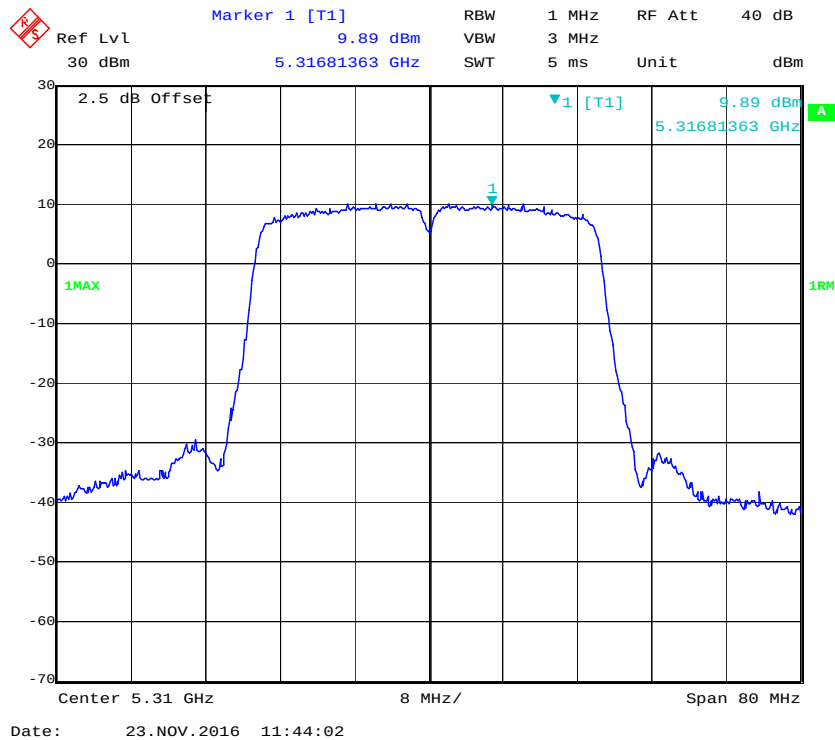


Date: 23.NOV.2016 11:37:33

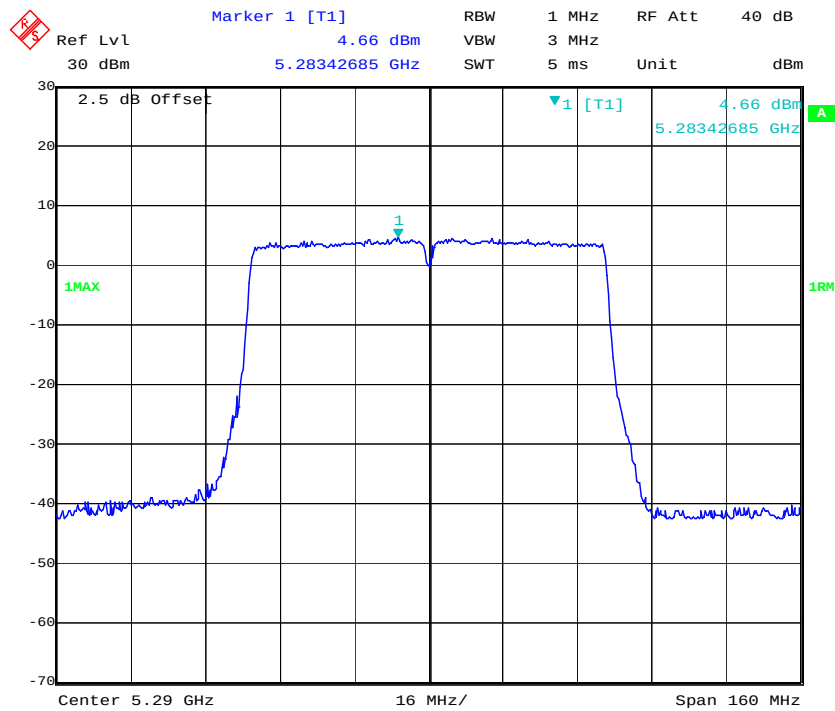
802.11n ht40 Low Channel – Chain0



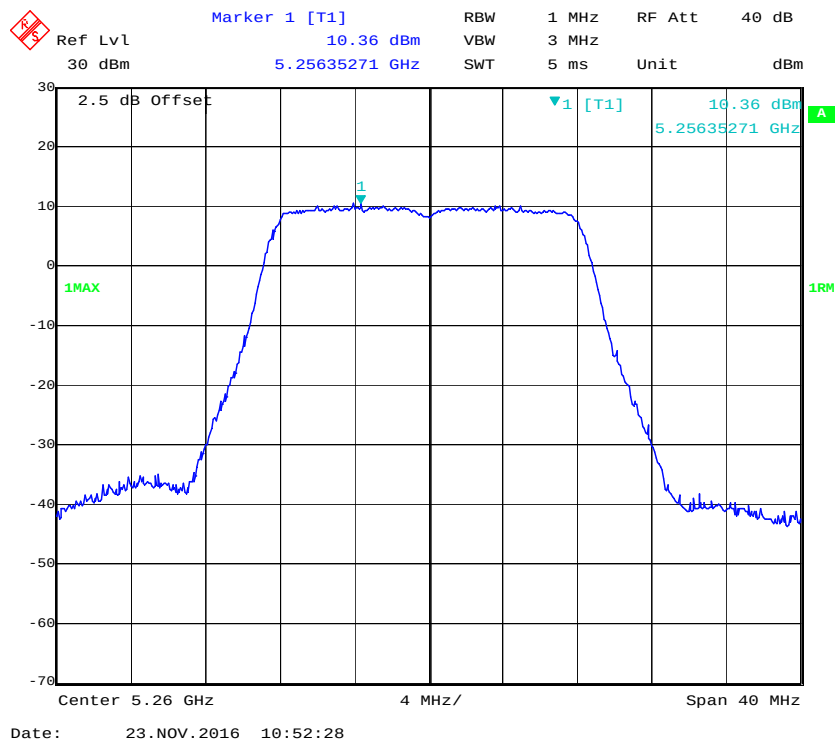
802.11n ht40 High Channel – Chain0



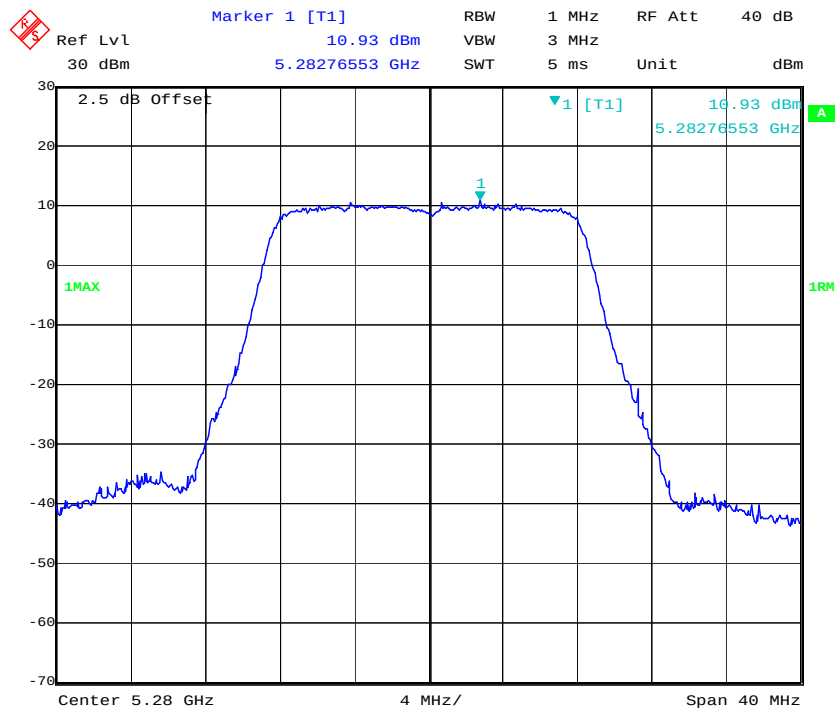
802.11 ac80 Middle Channel – Chain0



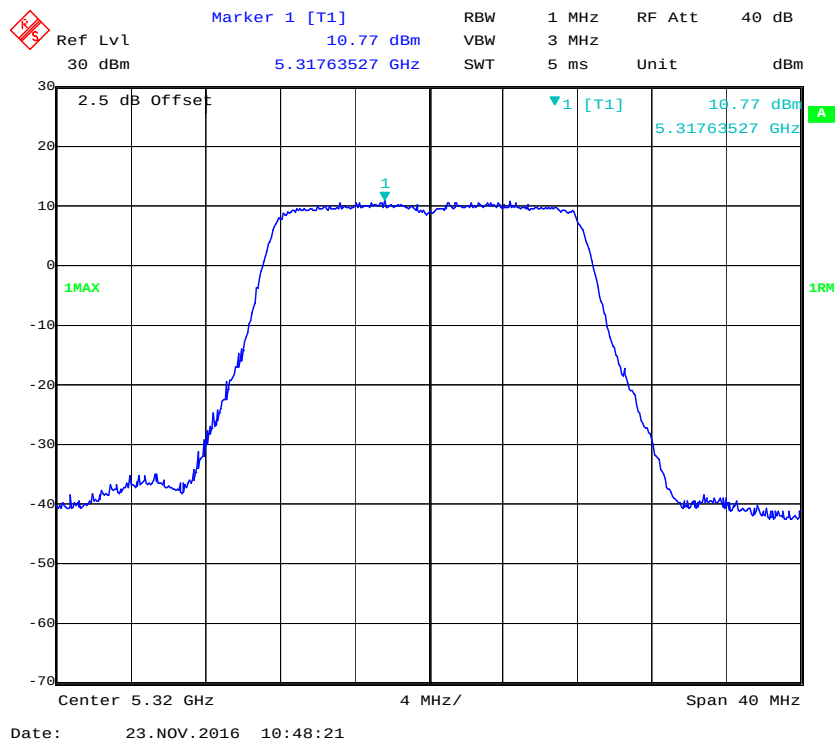
802.11a Low Channel – Chain1



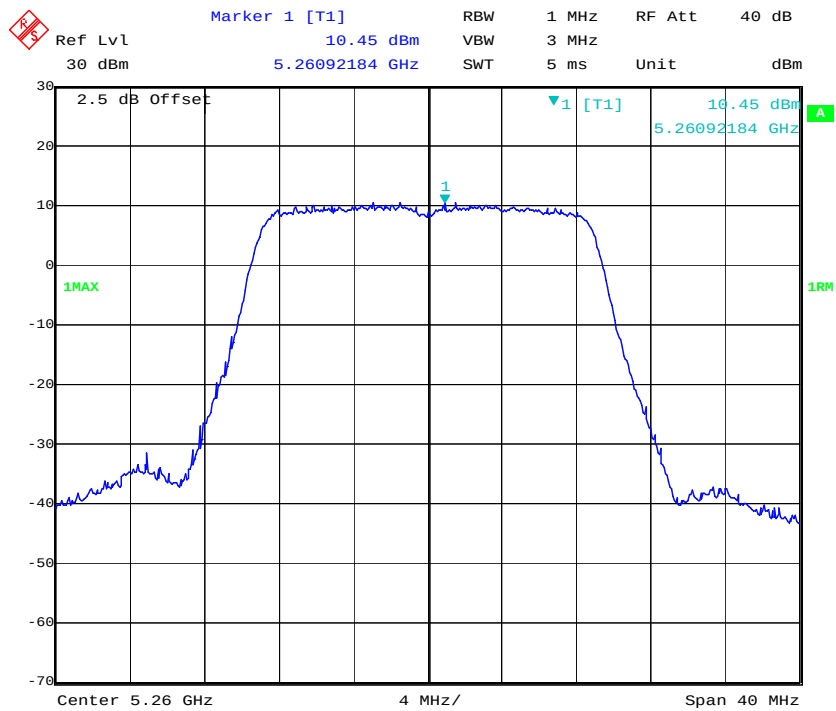
802.11a Middle Channel – Chain1



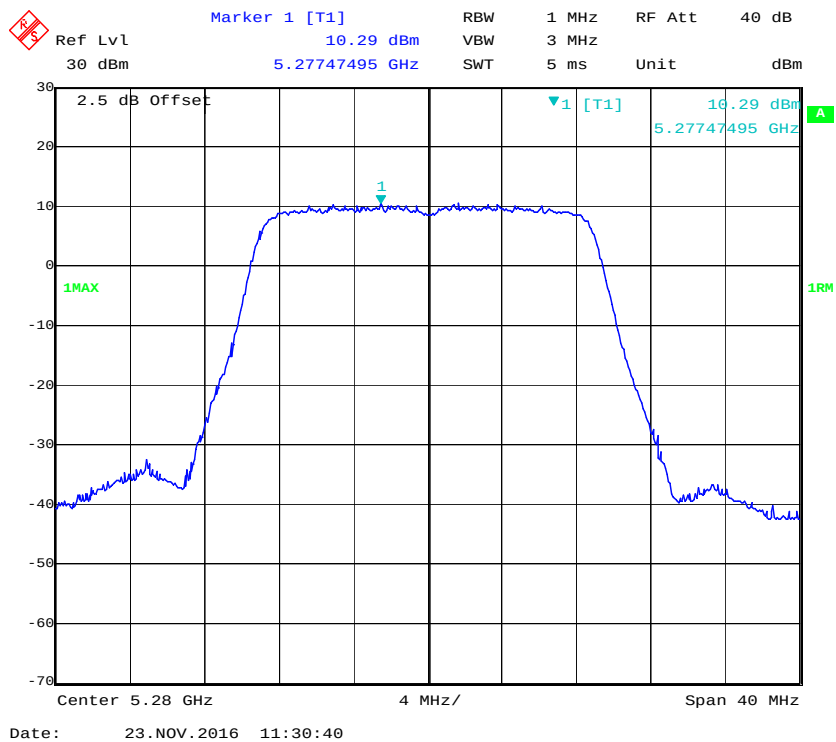
802.11a High Channel – Chain1



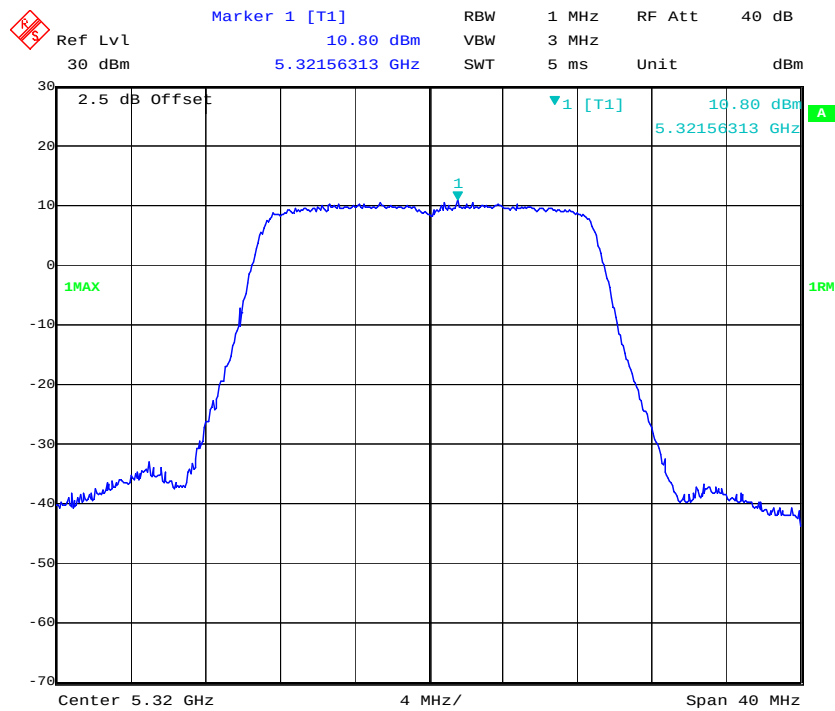
802.11n ht20 Low Channel – Chain1



802.11n ht20 Middle Channel – Chain1

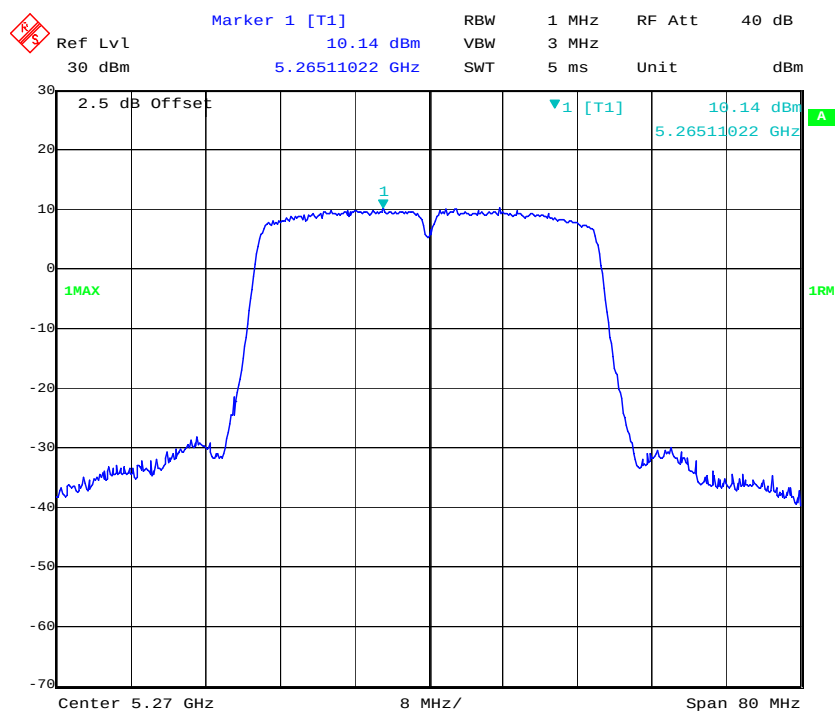


802.11n ht20 High Channel – Chain1



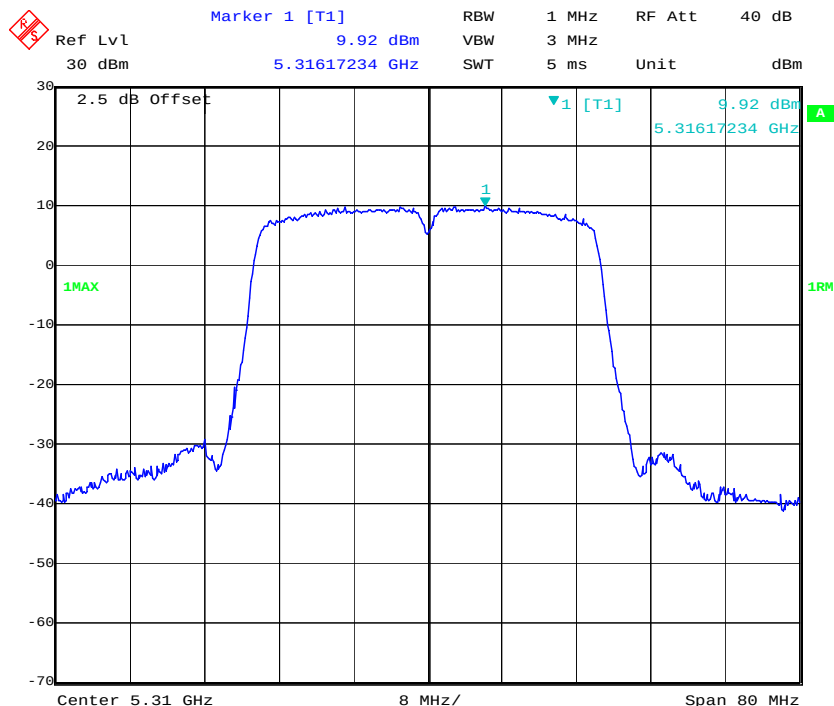
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802.11n ht40 Low Channel – Chain1



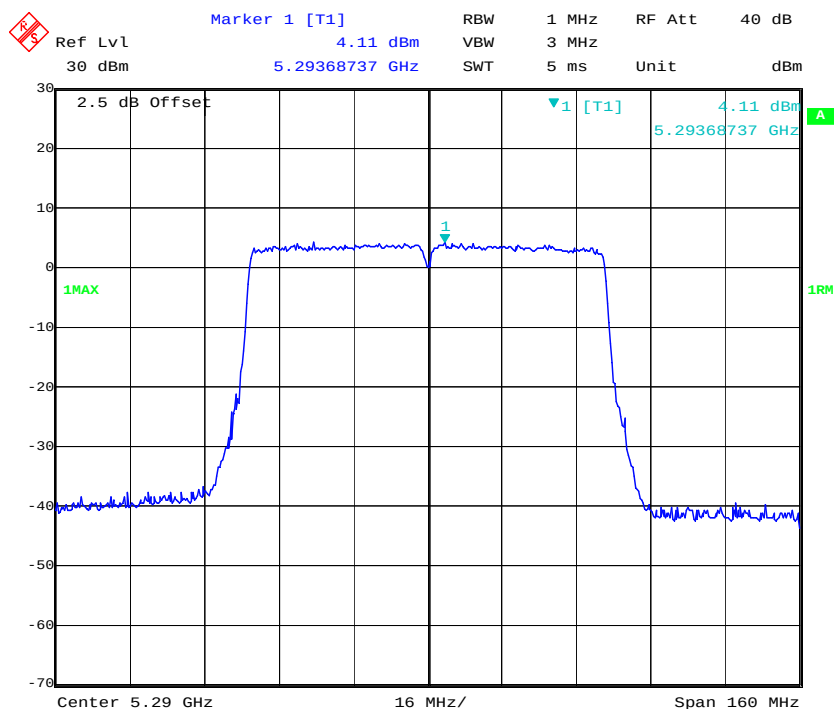
Date: 23.NOV.2016 11:51:30

802.11n ht40 High Channel – Chain1



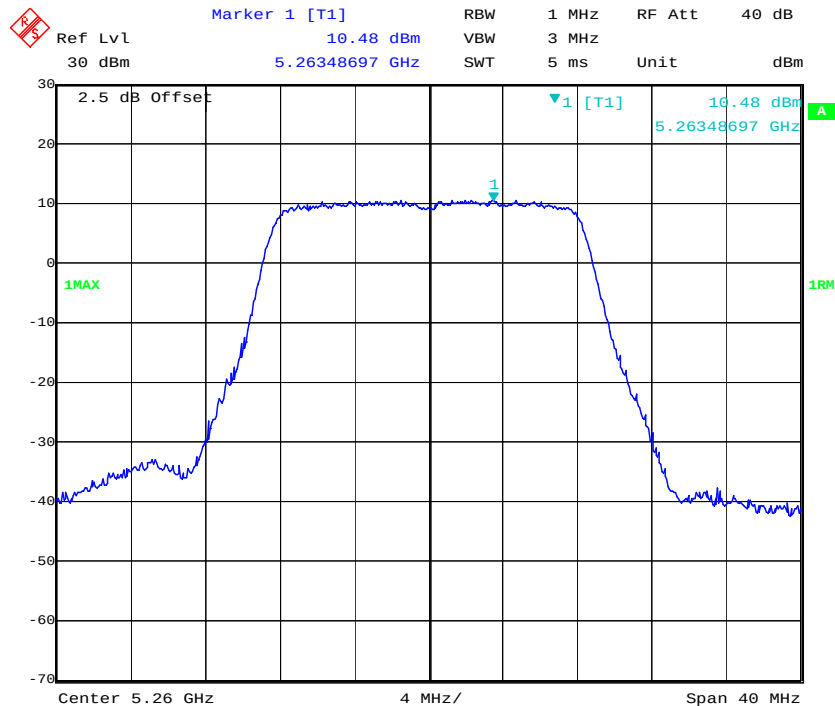
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802.11 ac80 Middle Channel – Chain1

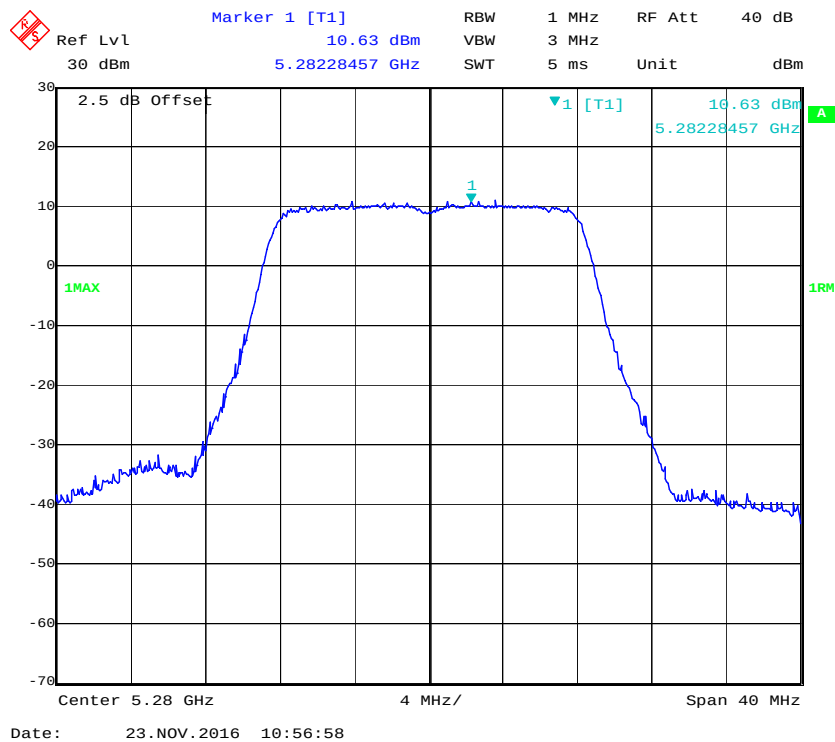


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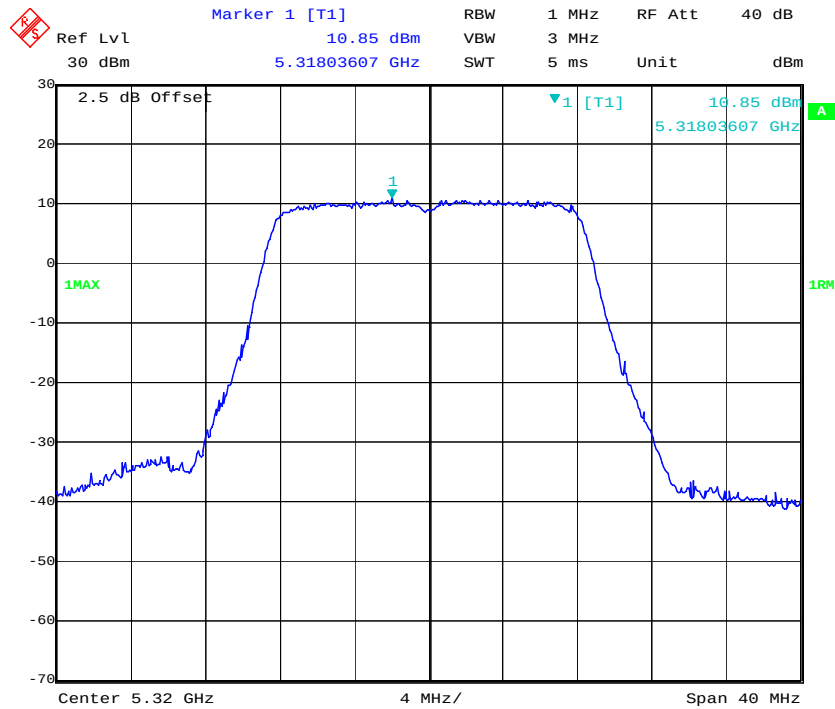
802.11a Low Channel – Chain2



802.11a Middle Channel – Chain2

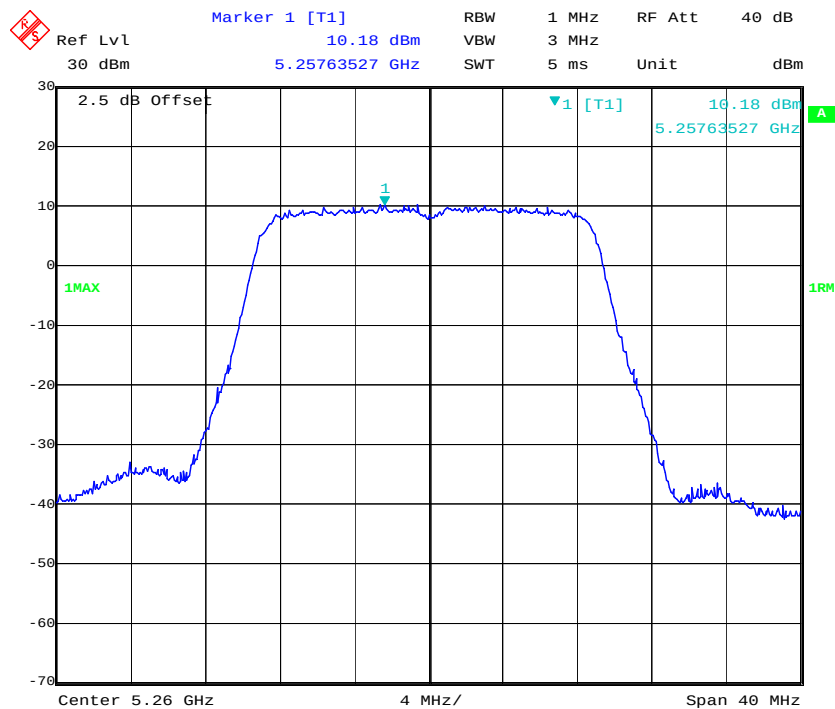


802.11a High Channel – Chain2



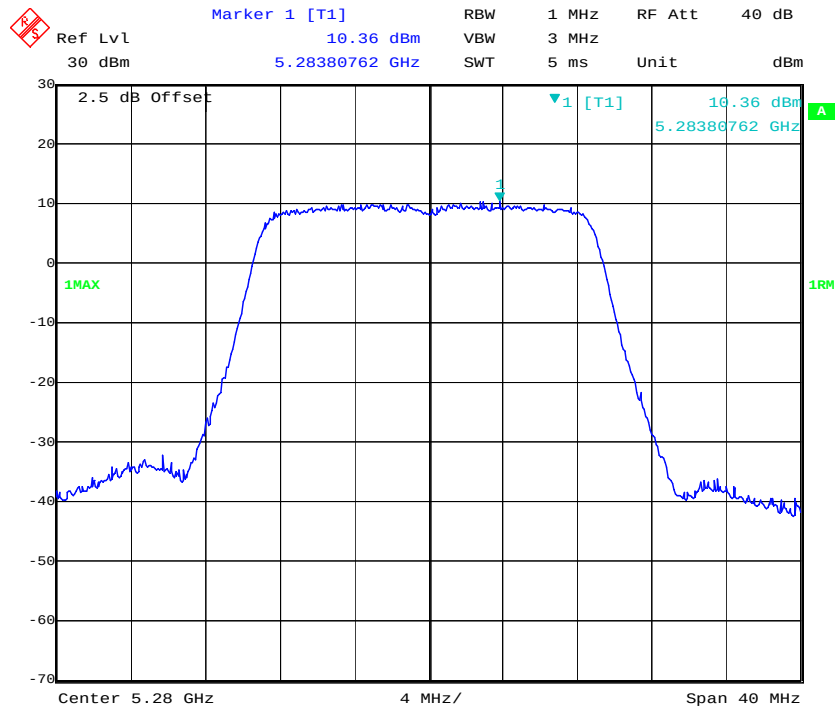
Date: 23.NOV.2016 10:58:42

802.11n ht20 Low Channel – Chain2

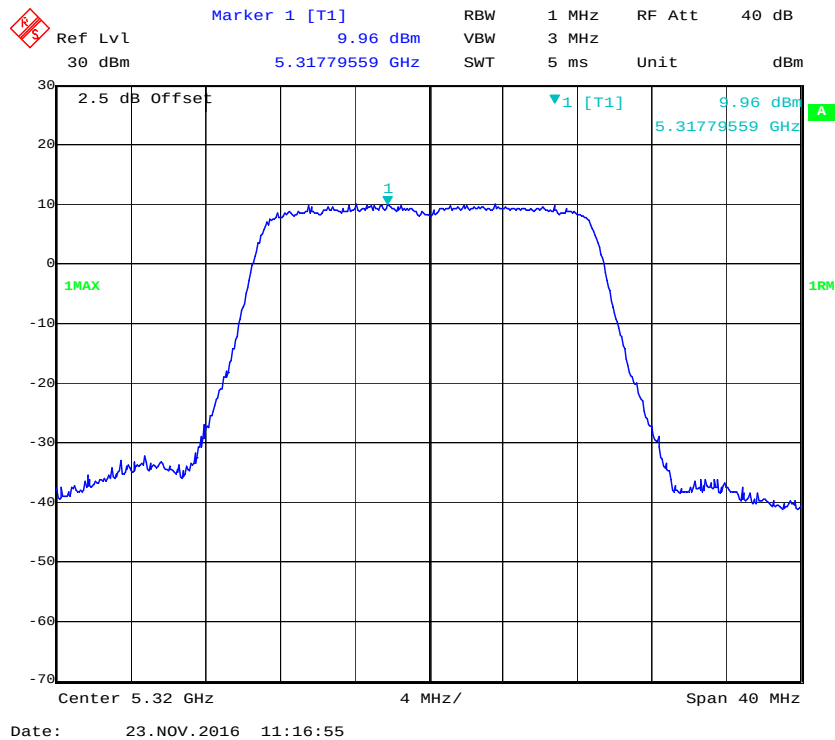


Date: 23.NOV.2016 11:21:39

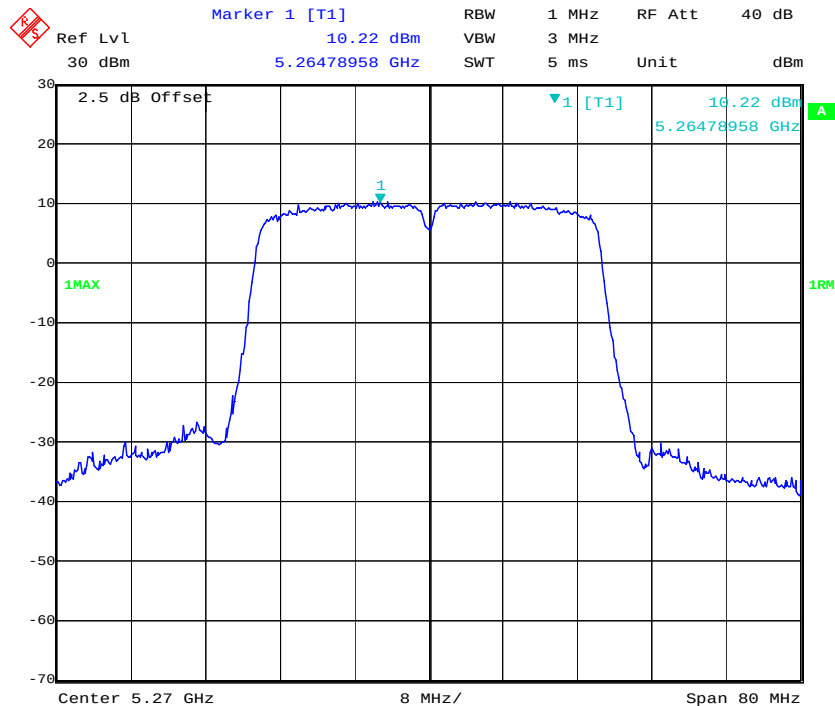
802.11n ht20 Middle Channel – Chain2



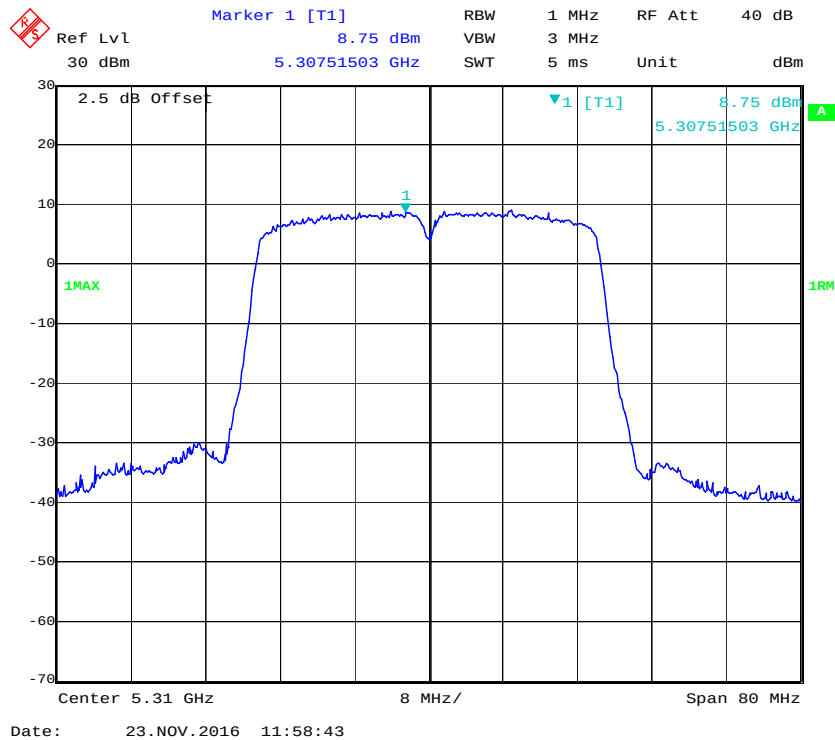
802.11n ht20 High Channel – Chain2



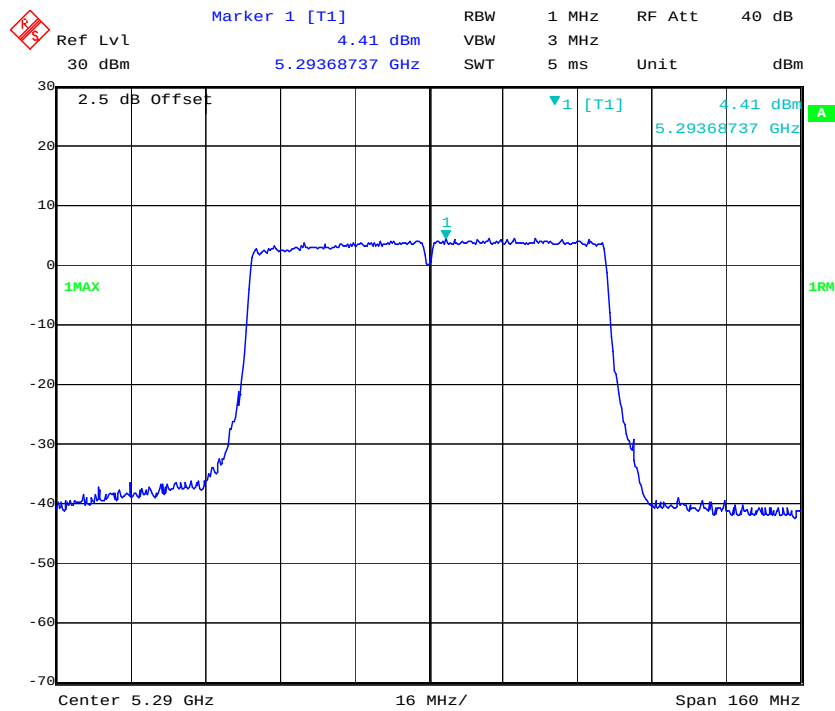
802.11n ht40 Low Channel – Chain2



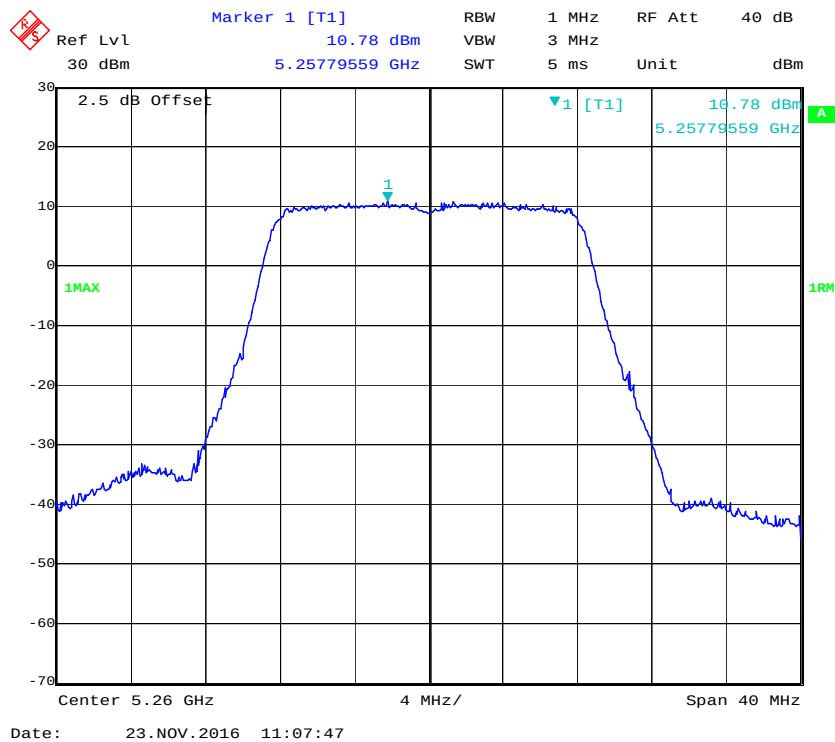
802.11n ht40 High Channel – Chain2



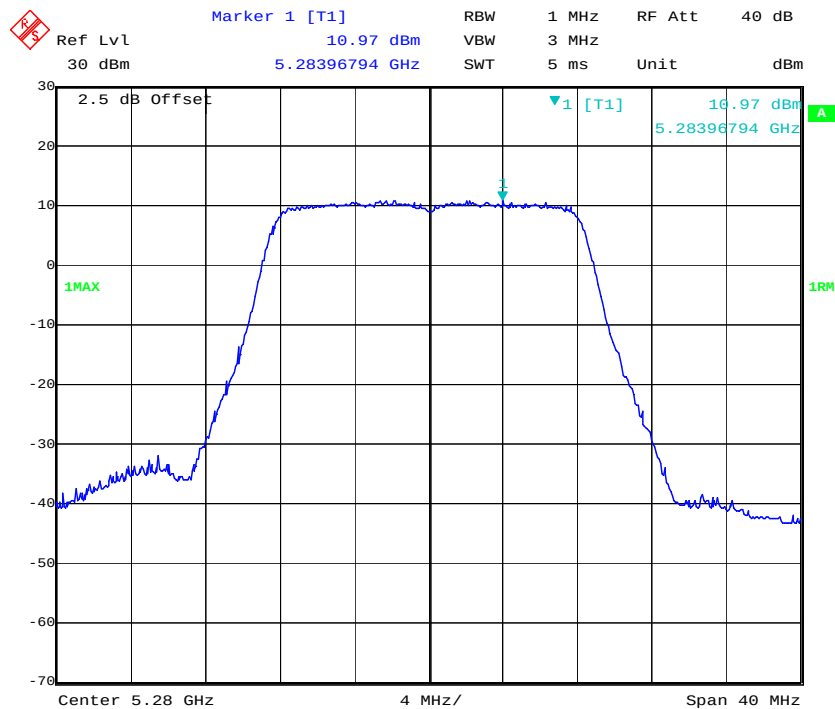
802.11 ac80 Middle Channel – Chain2



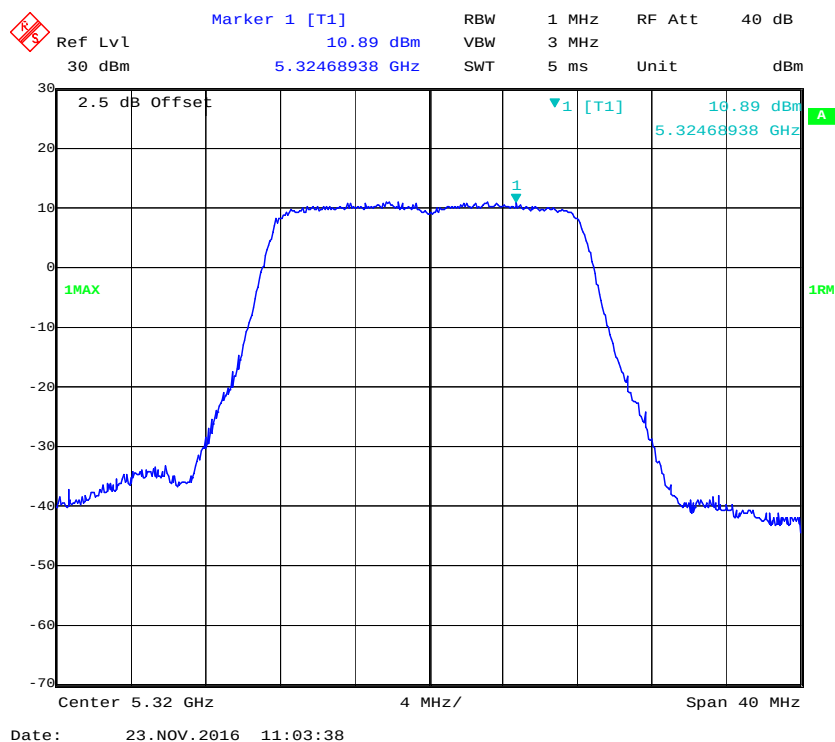
802.11a Low Channel – Chain3



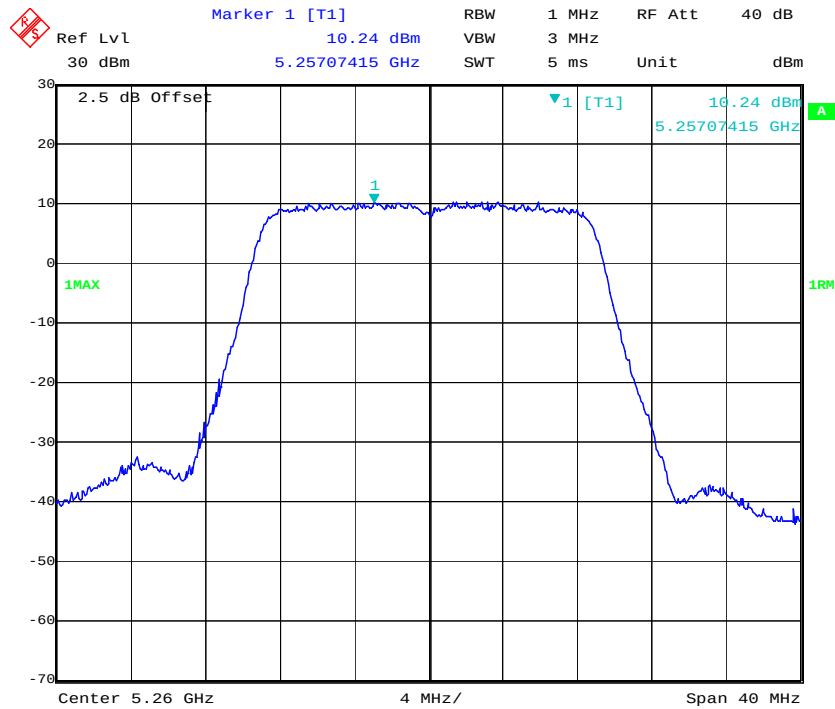
802.11a Middle Channel – Chain3



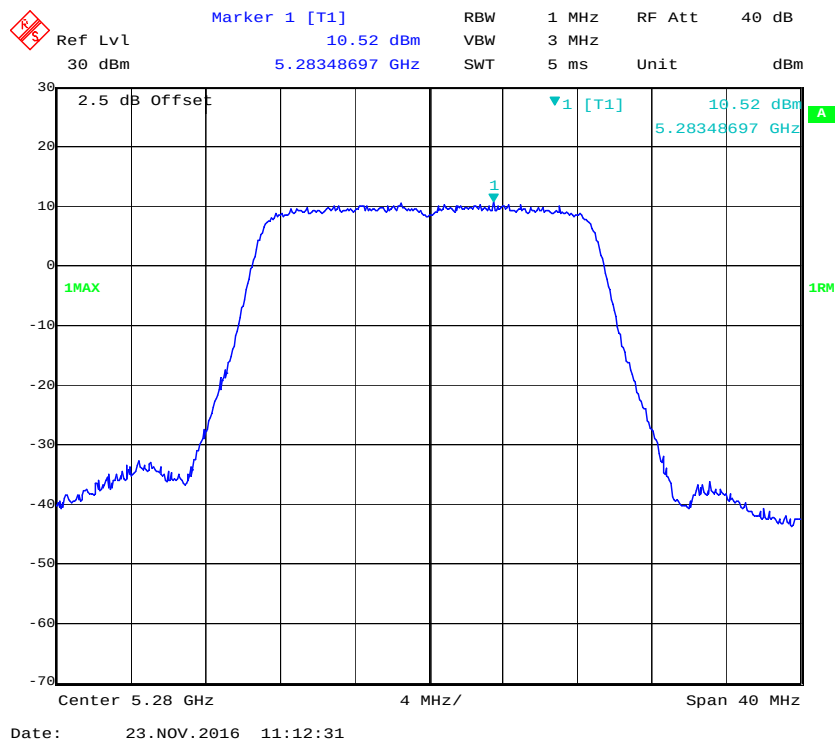
802.11a High Channel – Chain3



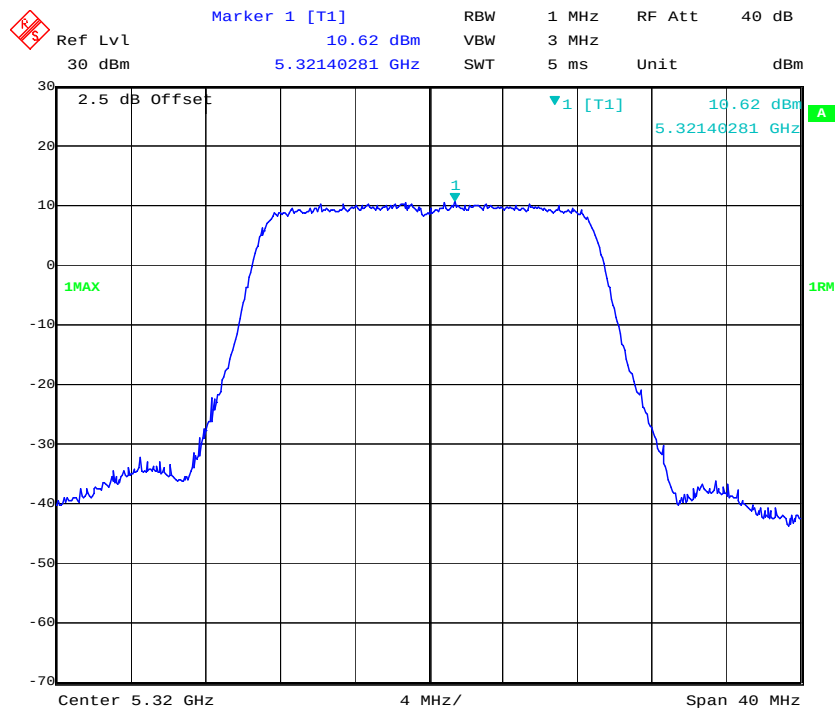
802.11n ht20 Low Channel – Chain3



802.11n ht20 Middle Channel – Chain3

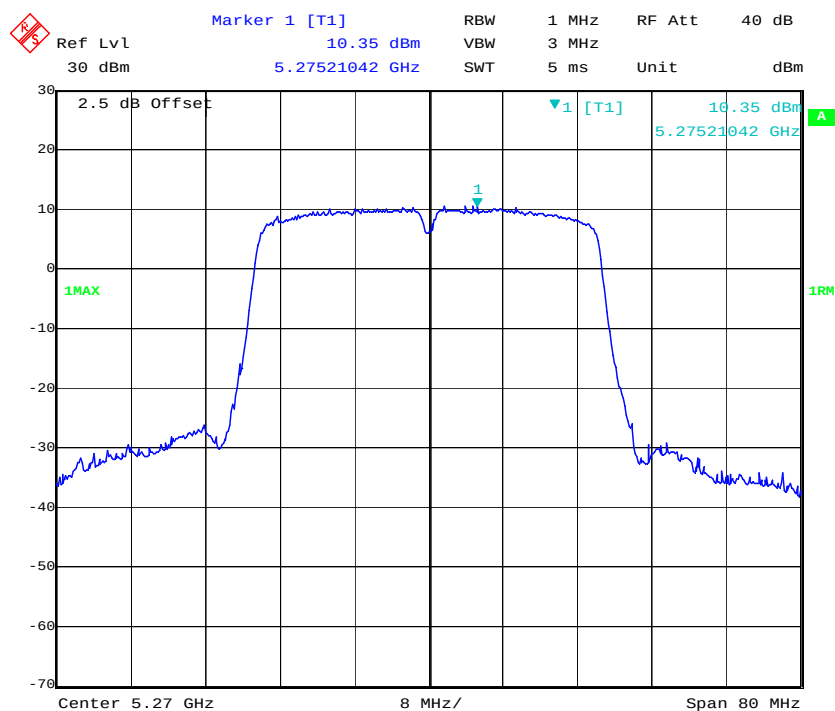


802.11n ht20 High Channel – Chain3



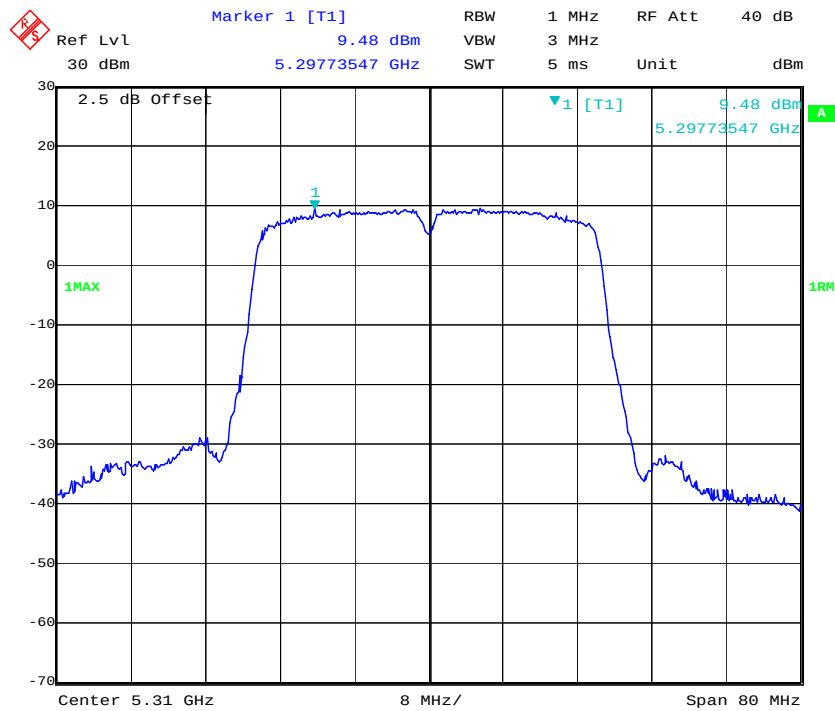
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802.11n ht40 Low Channel – Chain3

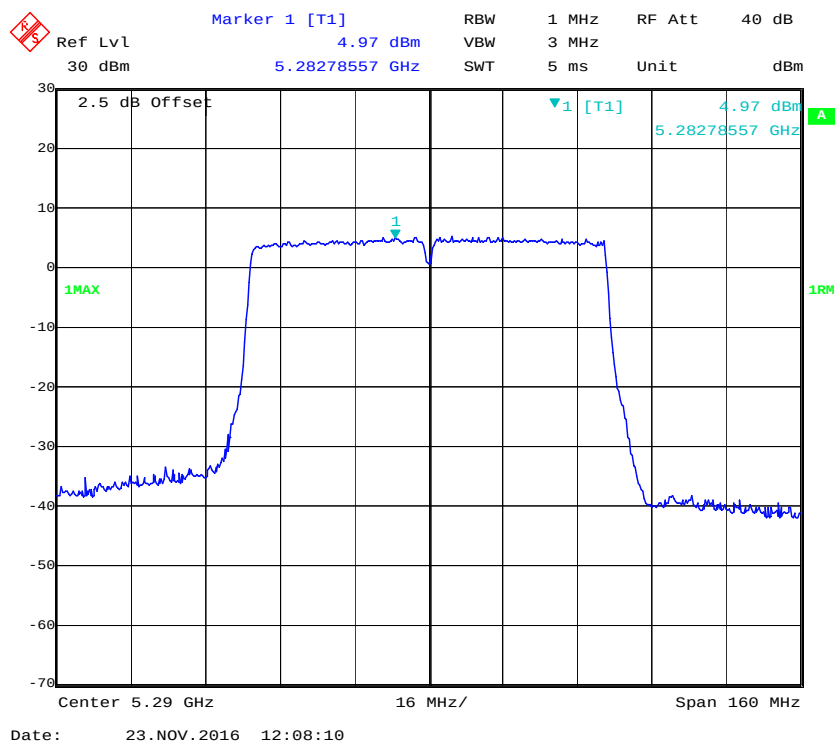


Date: 23.NOV.2016 12:05:20

802.11n ht40 High Channel – Chain3

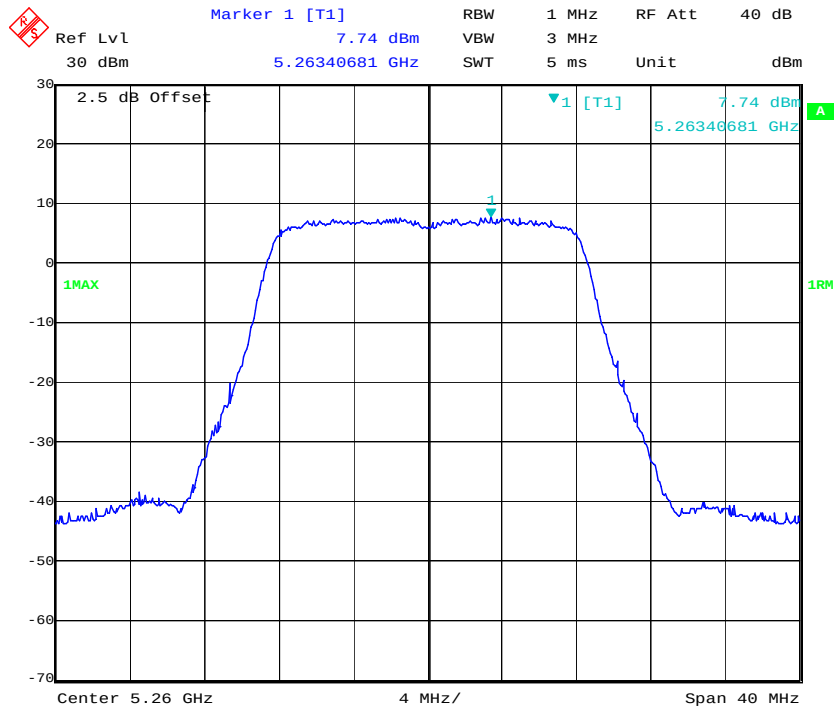


802.11 ac80 Middle Channel – Chain3



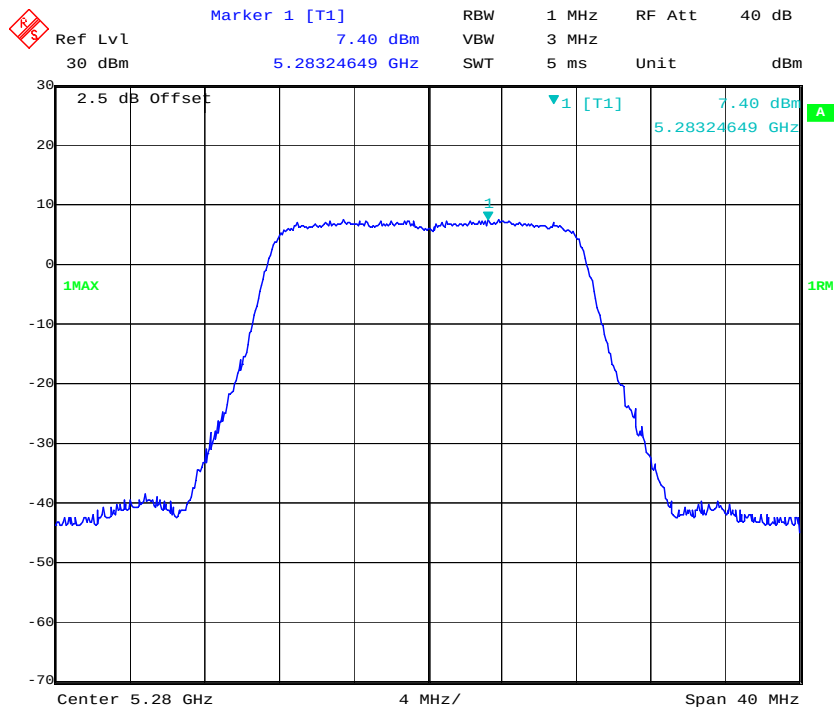
MIMO-2TX:

802.11a Low Channel – Chain0



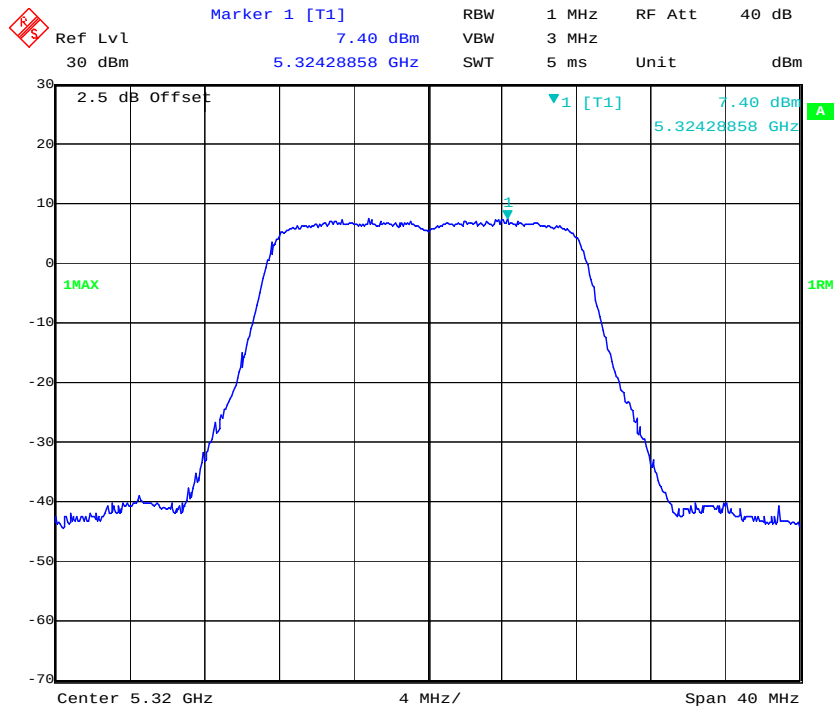
Date: 23.NOV.2016 13:32:22

802.11a Middle Channel – Chain0

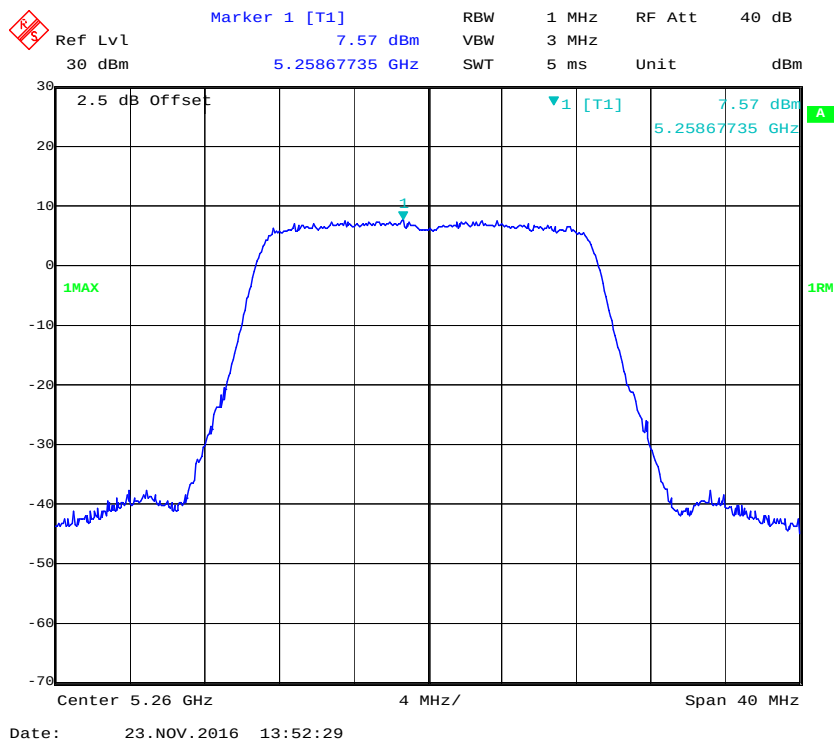


Date: 23.NOV.2016 13:34:10

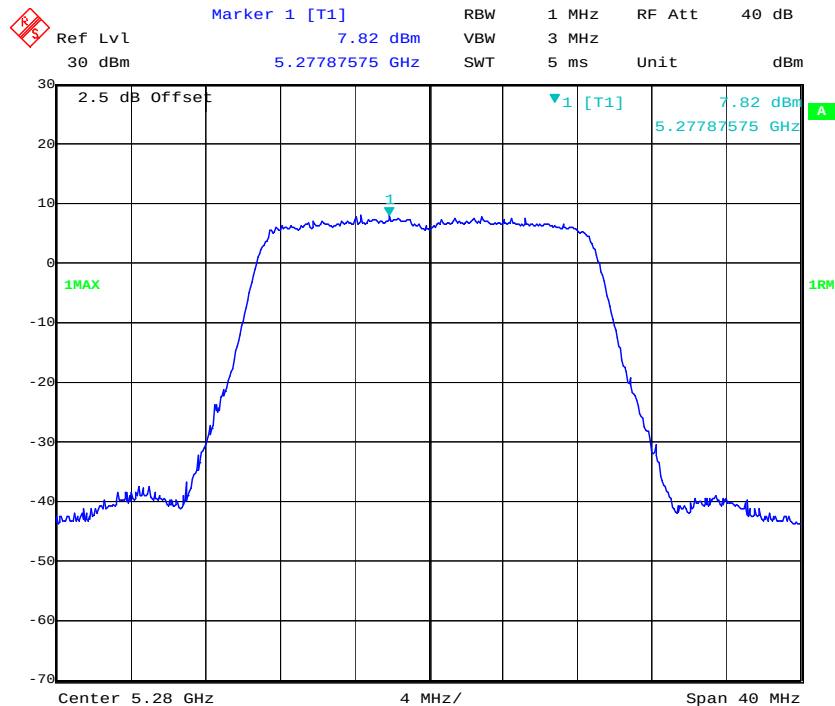
802.11a High Channel – Chain0



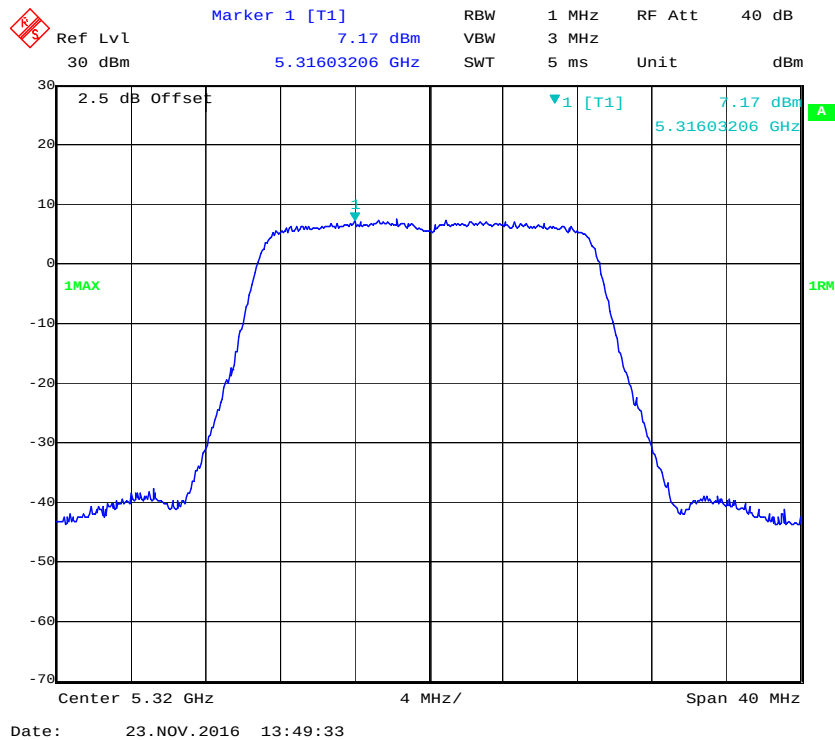
802.11n ht20 Low Channel – Chain0



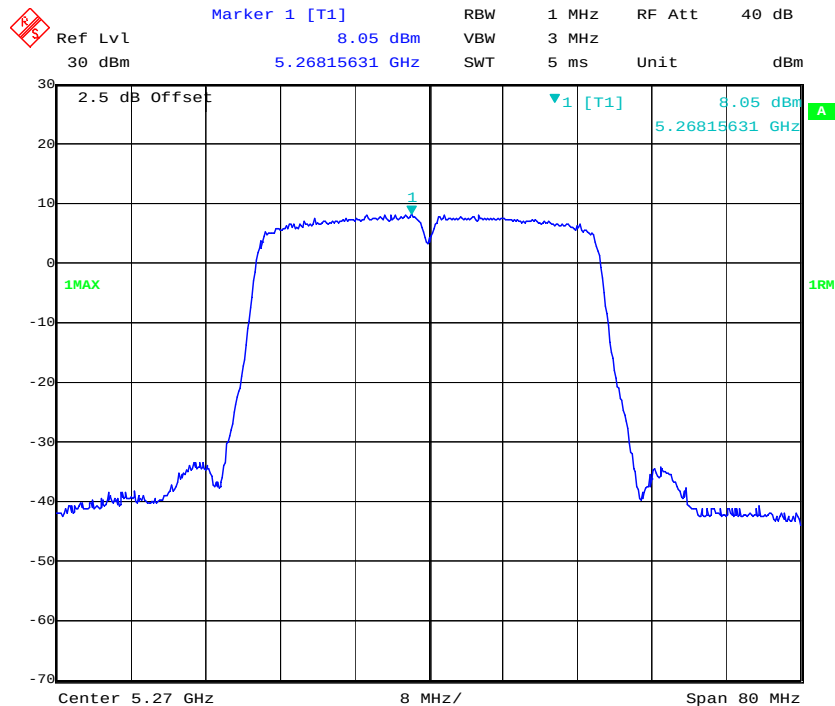
802.11n ht20 Middle Channel – Chain0



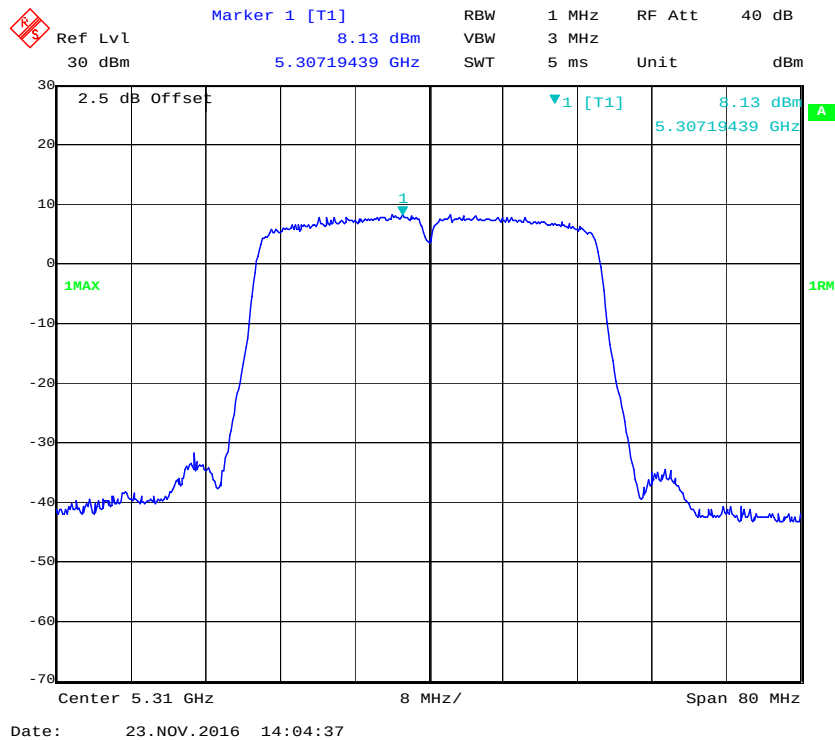
802.11n ht20 High Channel – Chain0



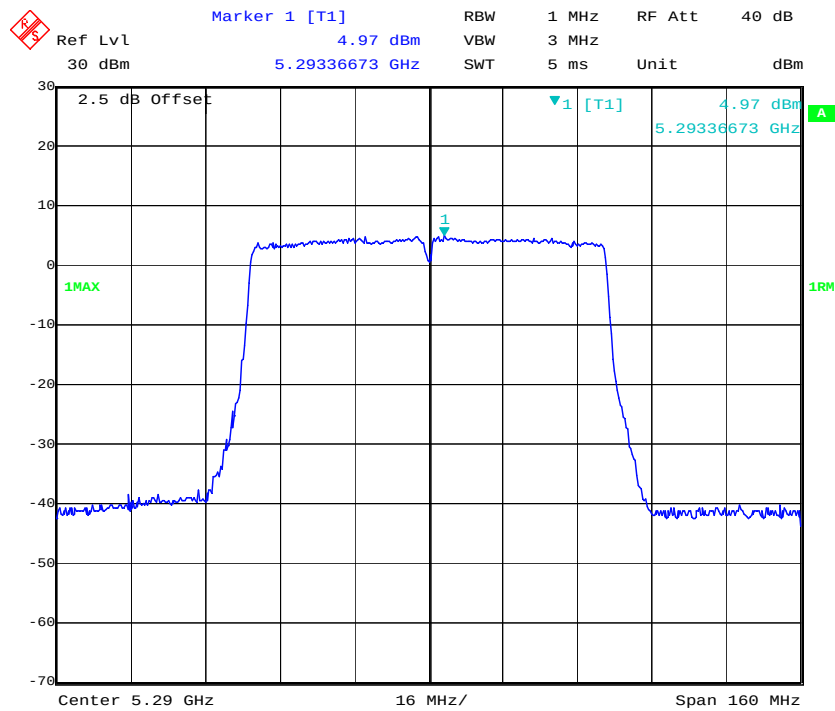
802.11n ht40 Low Channel – Chain0



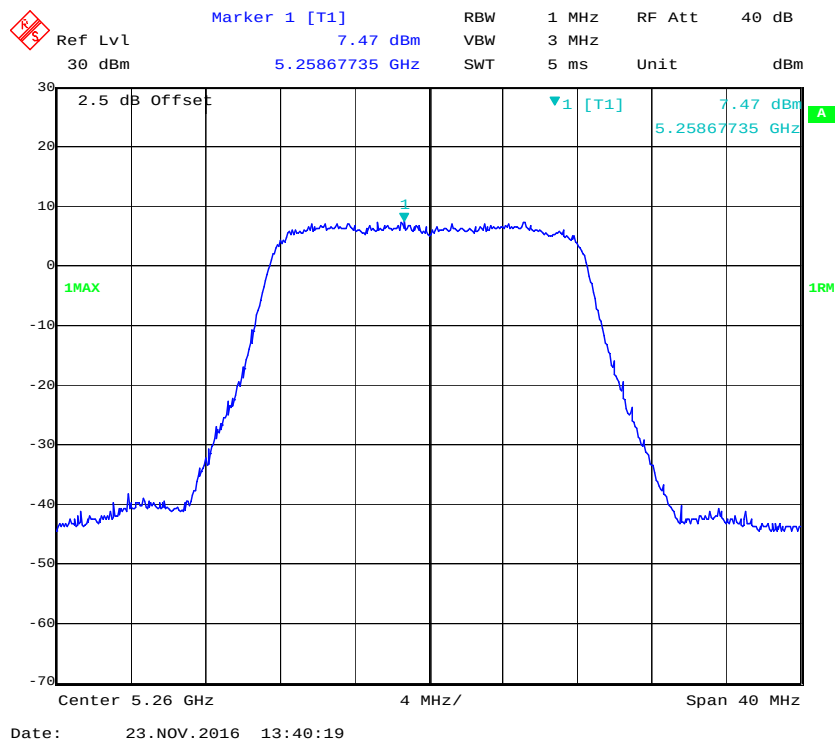
802.11n ht40 High Channel – Chain0



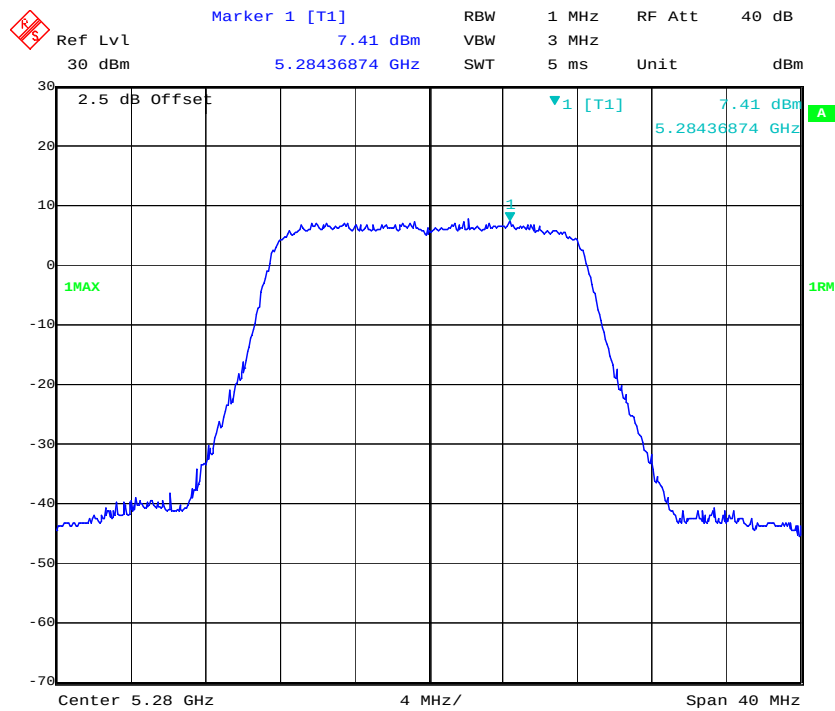
802.11 ac80 Middle Channel – Chain0



802.11a Low Channel – Chain1

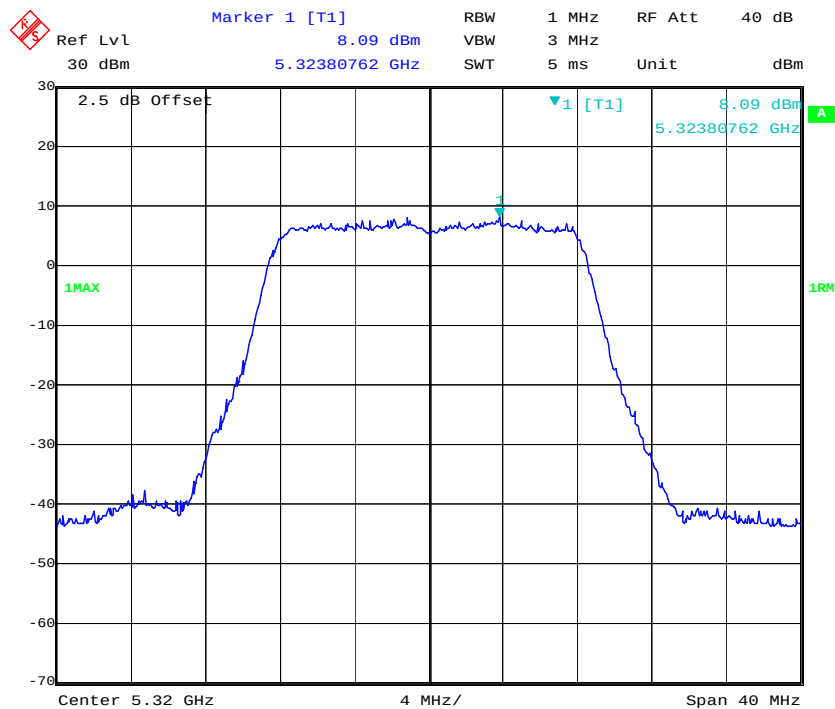


802.11a Middle Channel – Chain1



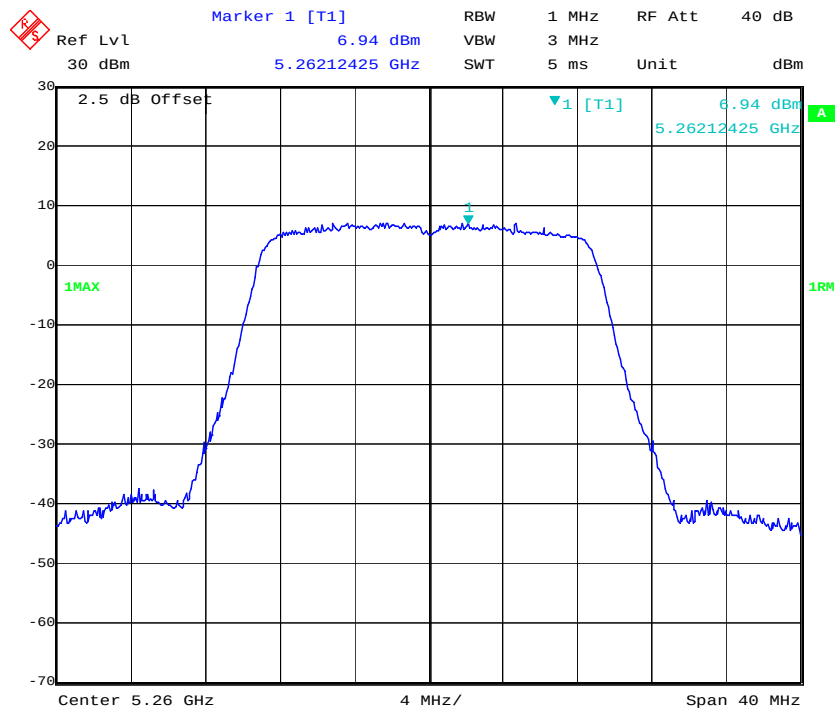
Date: 23.NOV.2016 13:38:48

802.11a High Channel – Chain1

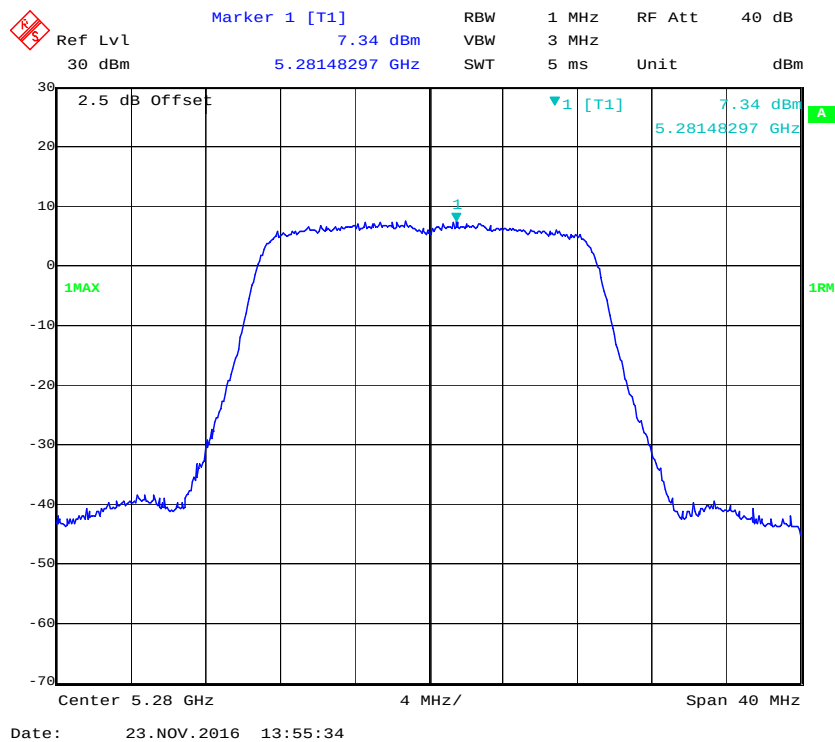


Date: 23.NOV.2016 13:37:27

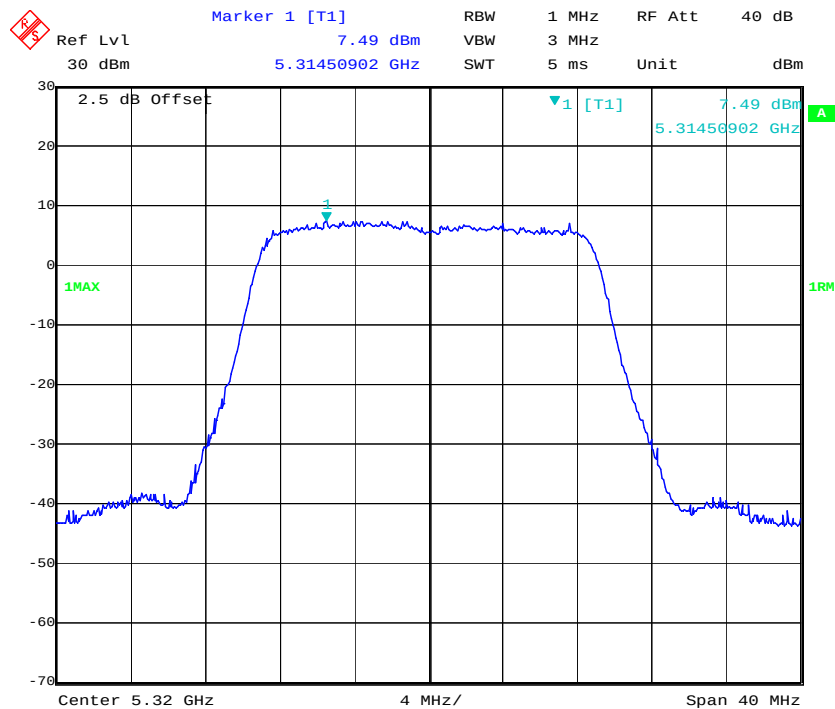
802.11n ht20 Low Channel – Chain1



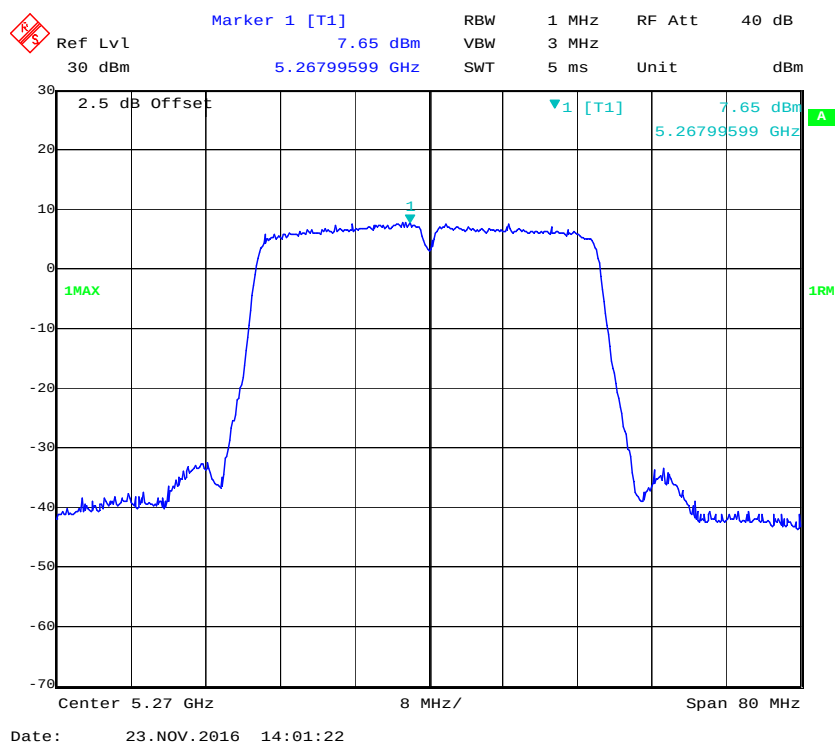
802.11n ht20 Middle Channel – Chain1



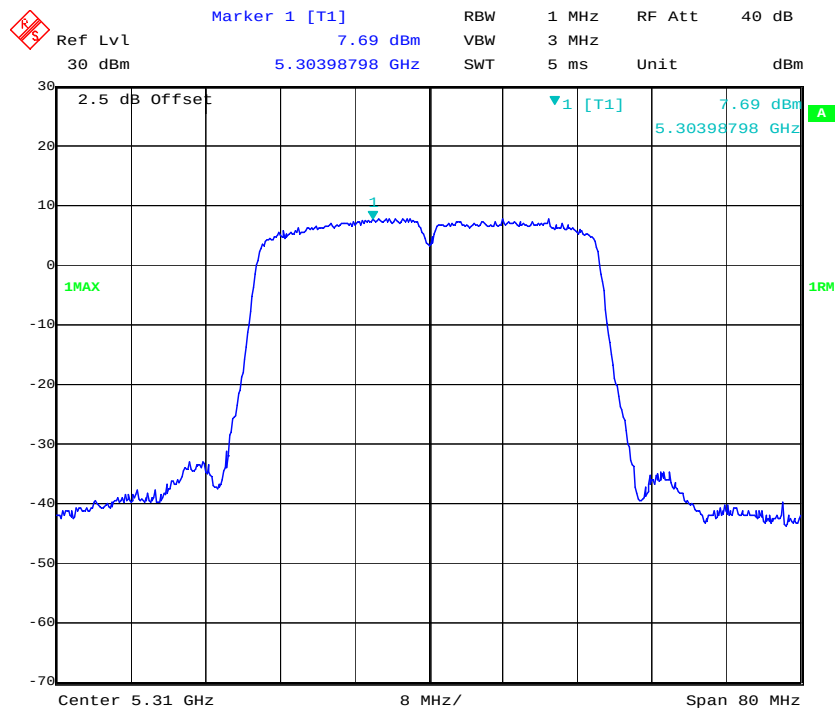
802.11n ht20 High Channel – Chain1



802.11n ht40 Low Channel – Chain1

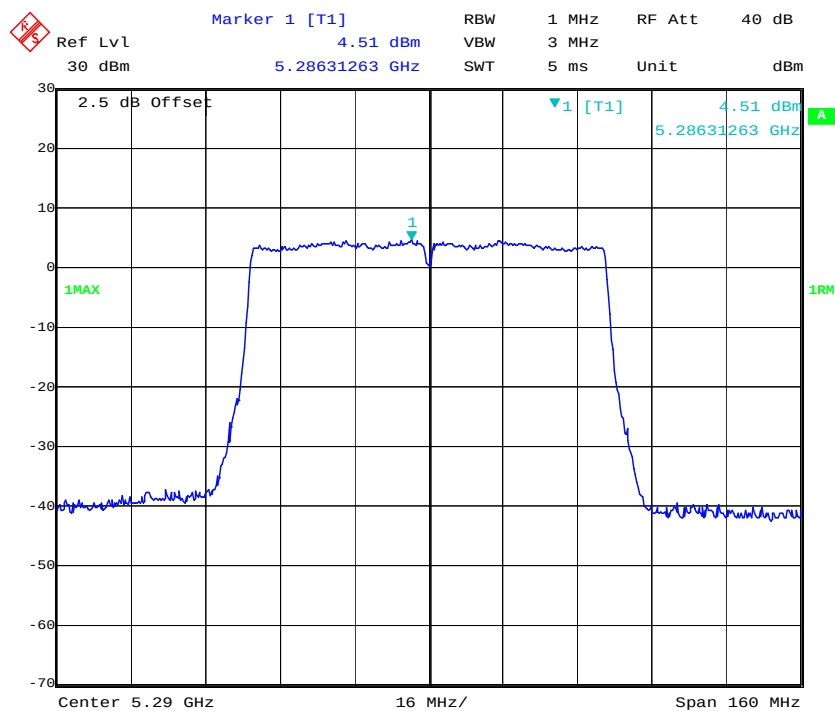


802.11n ht40 High Channel – Chain1



Date: 23.NOV.2016 14:02:56

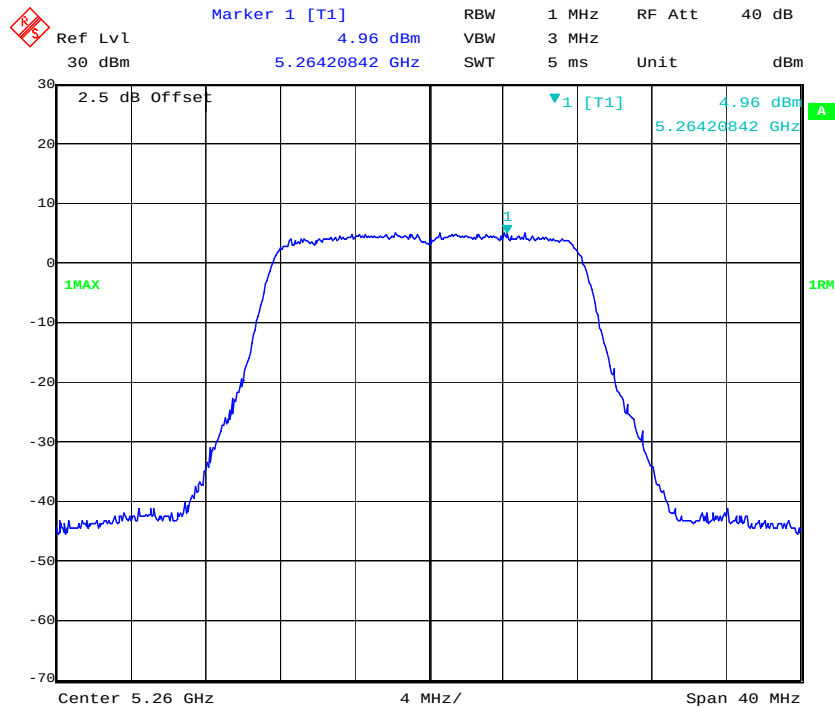
802.11 ac80 Middle Channel – Chain1



Date: 23.NOV.2016 14:10:24

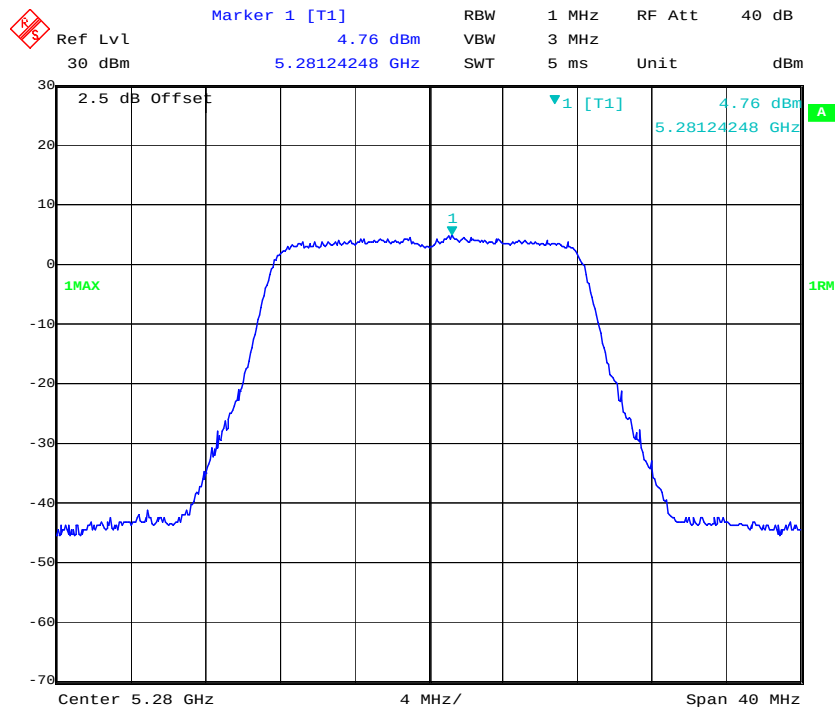
MIMO-3TX:

802.11a Low Channel – Chain0



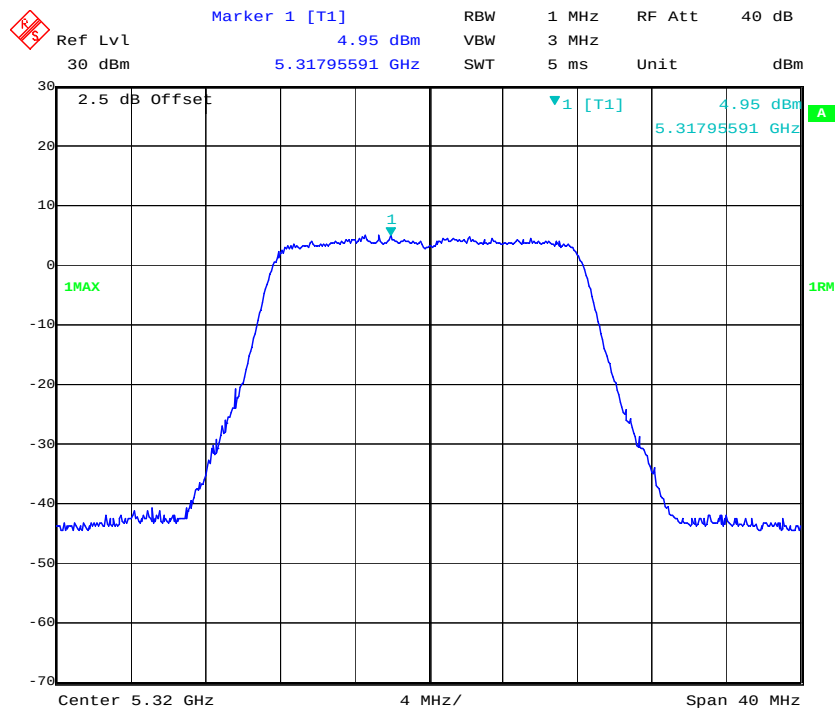
Date: 23.NOV.2016 15:11:49

802.11a Middle Channel – Chain0

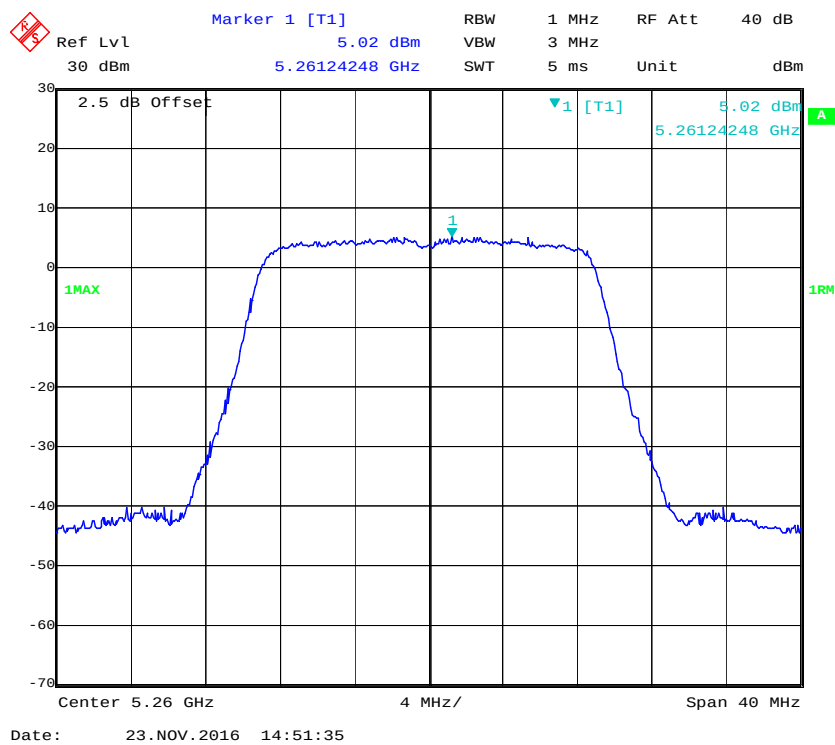


Date: 23.NOV.2016 15:22:02

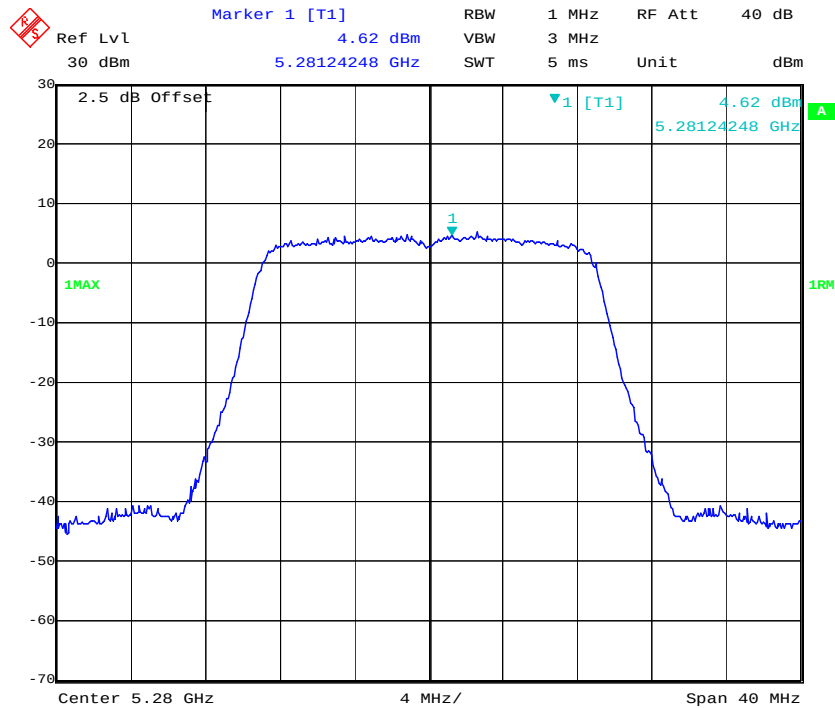
802.11a High Channel – Chain0



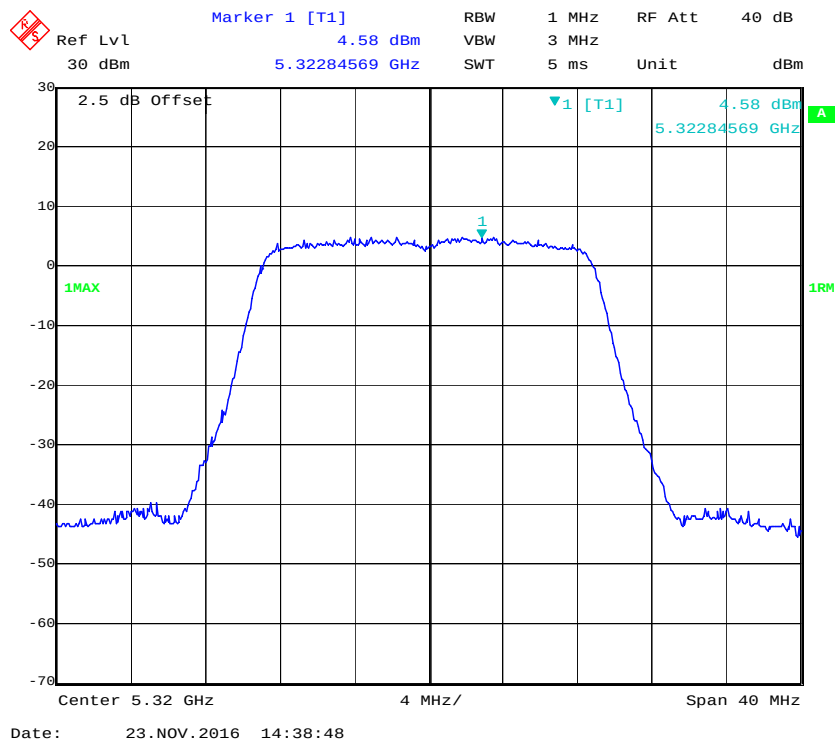
802.11n ht20 Low Channel – Chain0



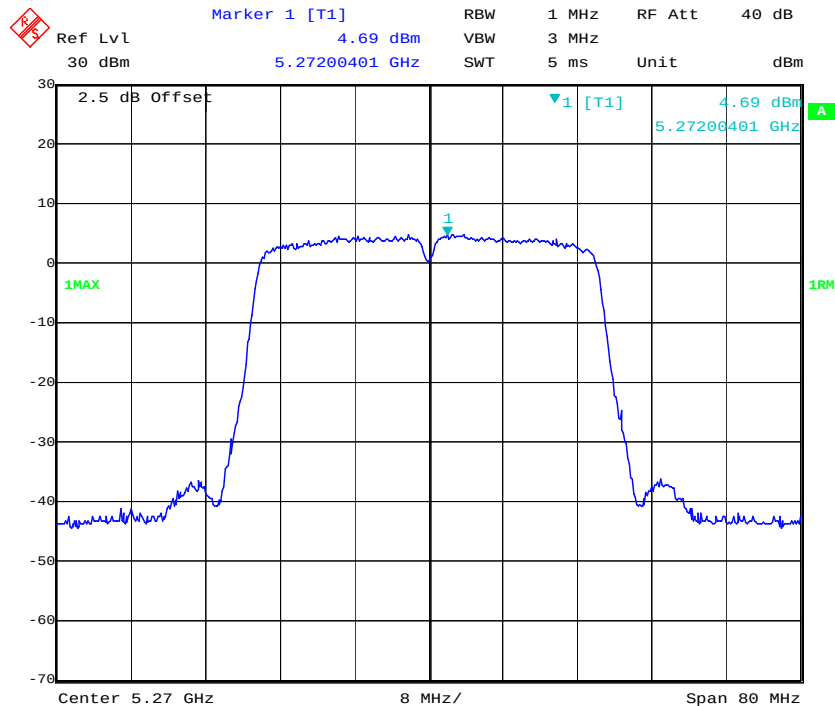
802.11n ht20 Middle Channel – Chain0



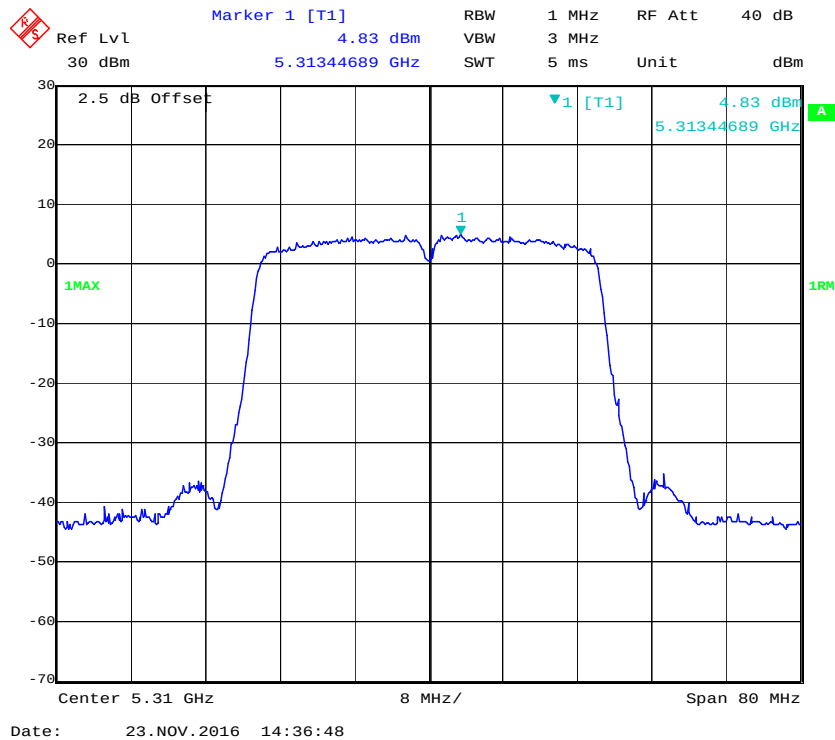
802.11n ht20 High Channel – Chain0



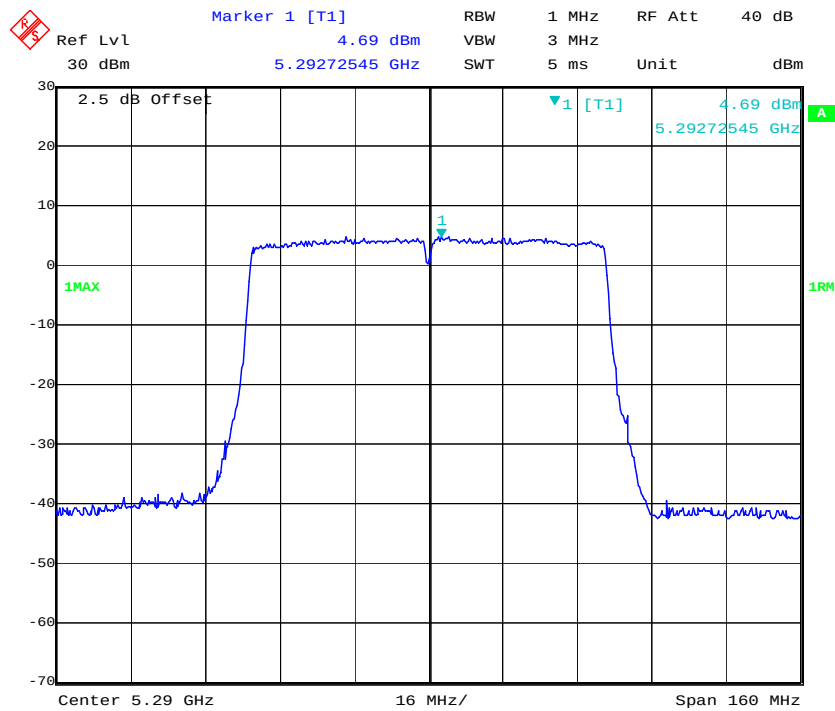
802.11n ht40 Low Channel – Chain0



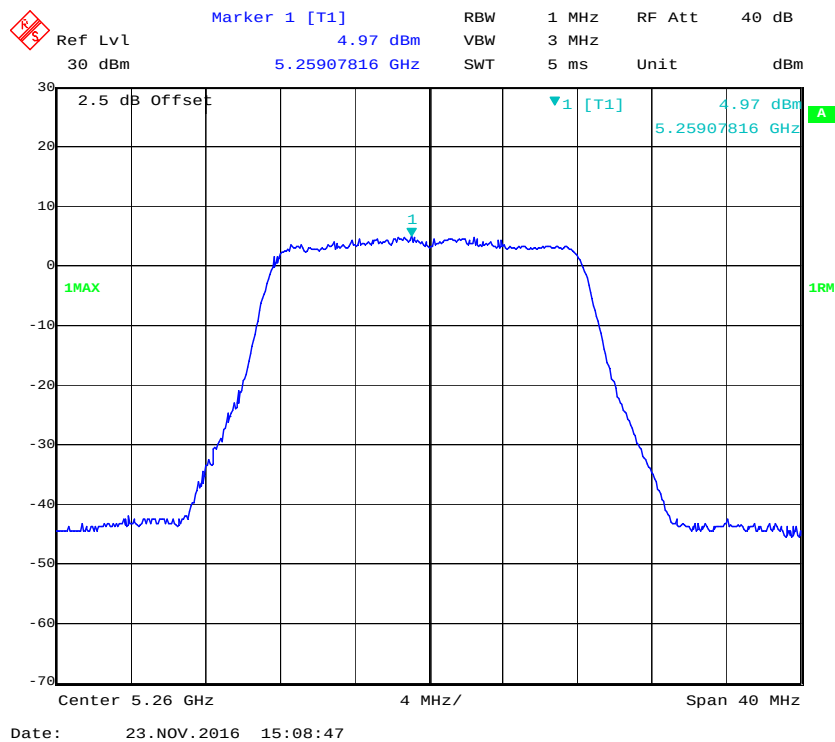
802.11n ht40 High Channel – Chain0



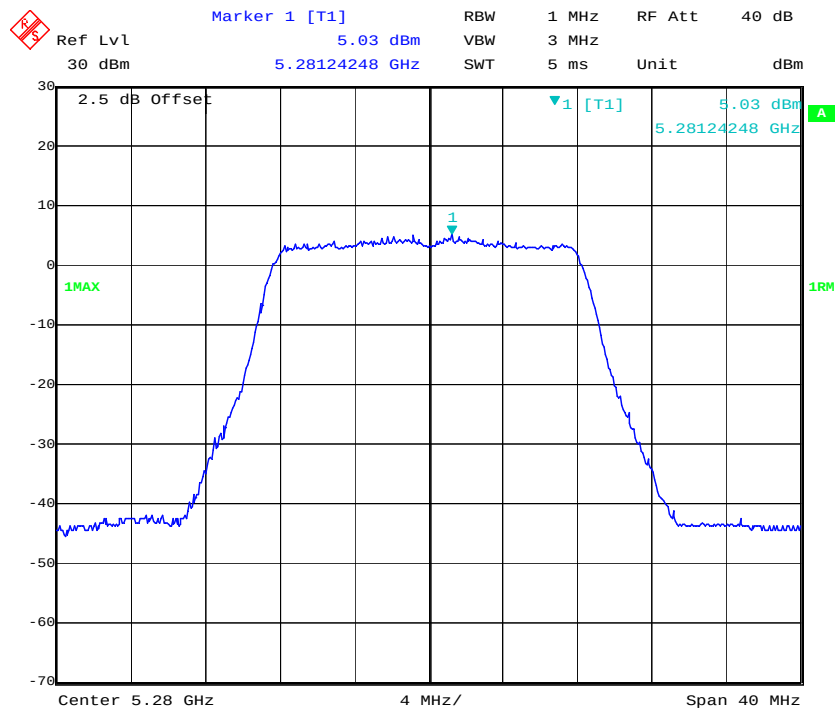
802.11 ac80 Middle Channel – Chain0



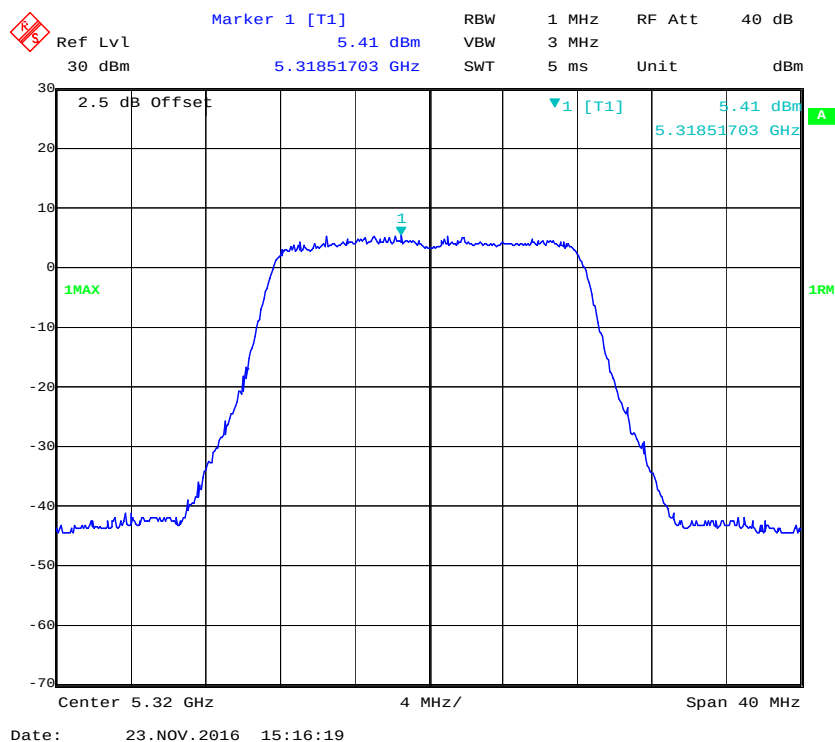
802.11a Low Channel – Chain1



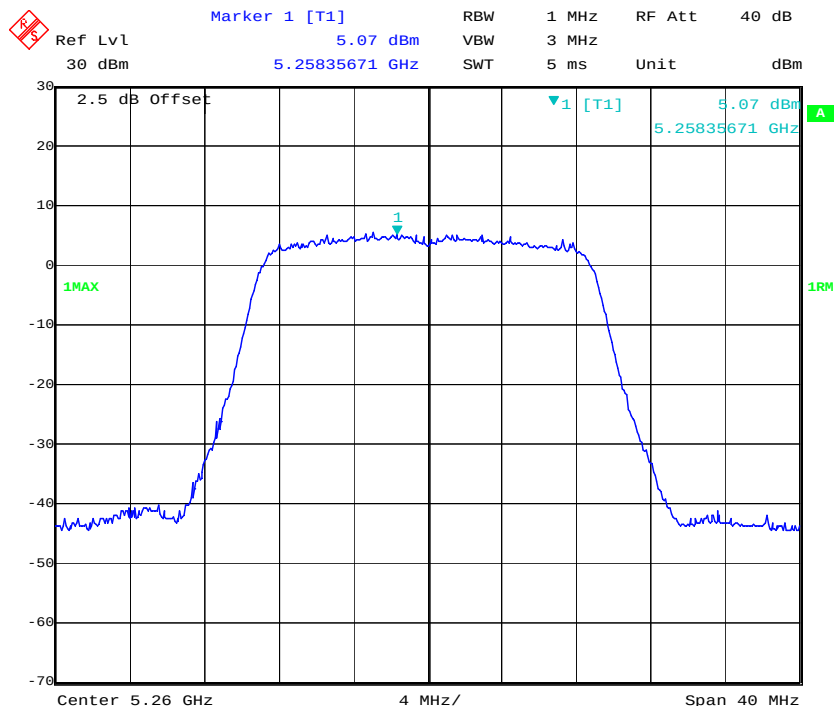
802.11a Middle Channel – Chain1



802.11a High Channel – Chain1

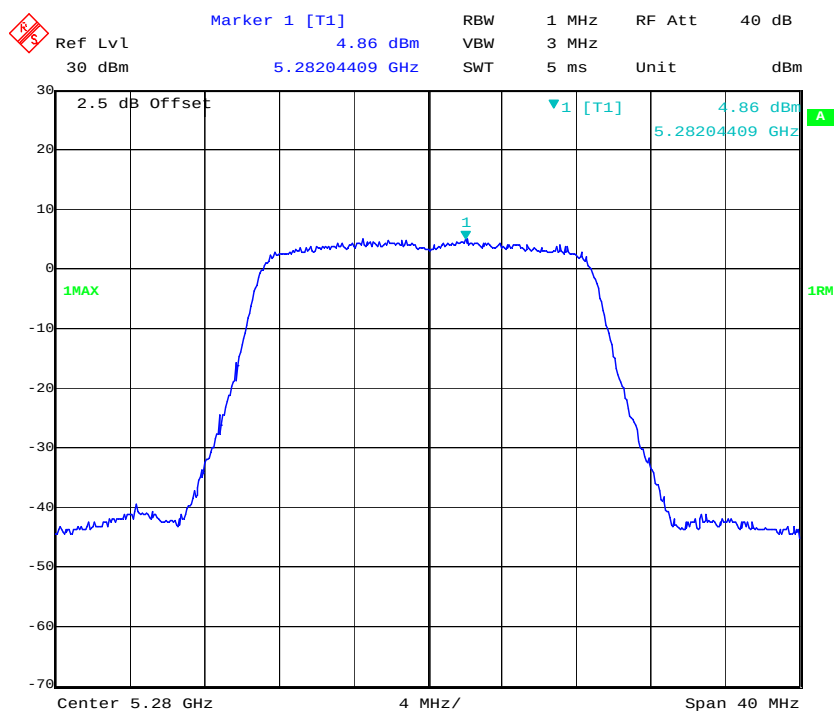


802.11n ht20 Low Channel – Chain1



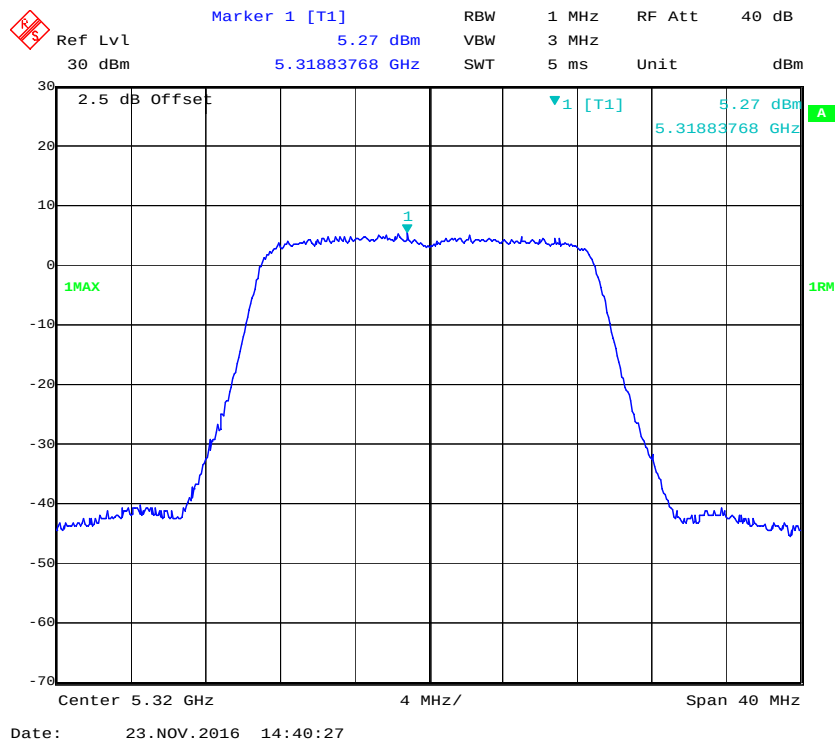
Date: 23.NOV.2016 14:46:51

802.11n ht20 Middle Channel – Chain1

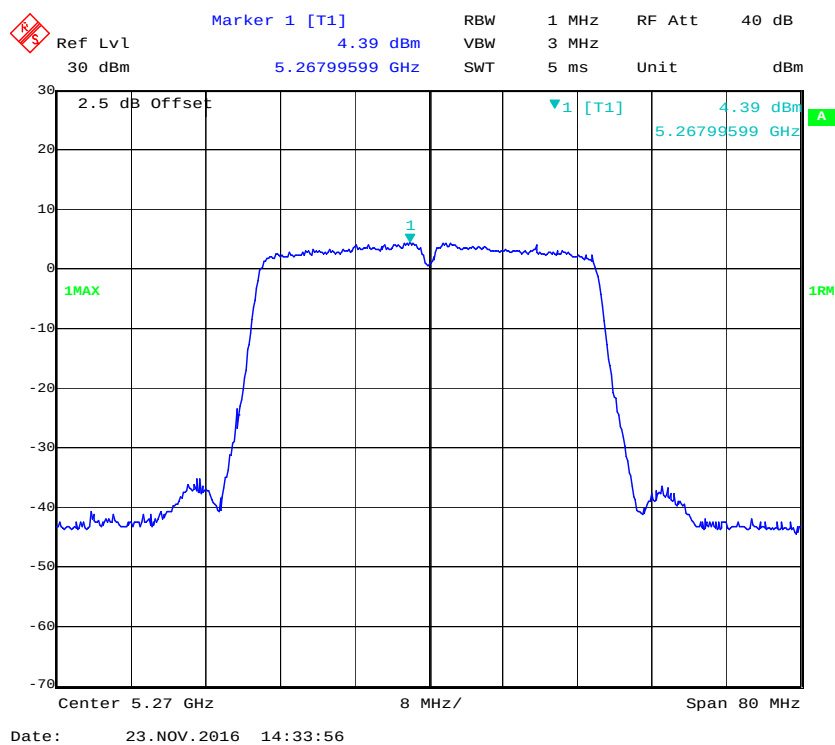


Date: 23.NOV.2016 14:59:14

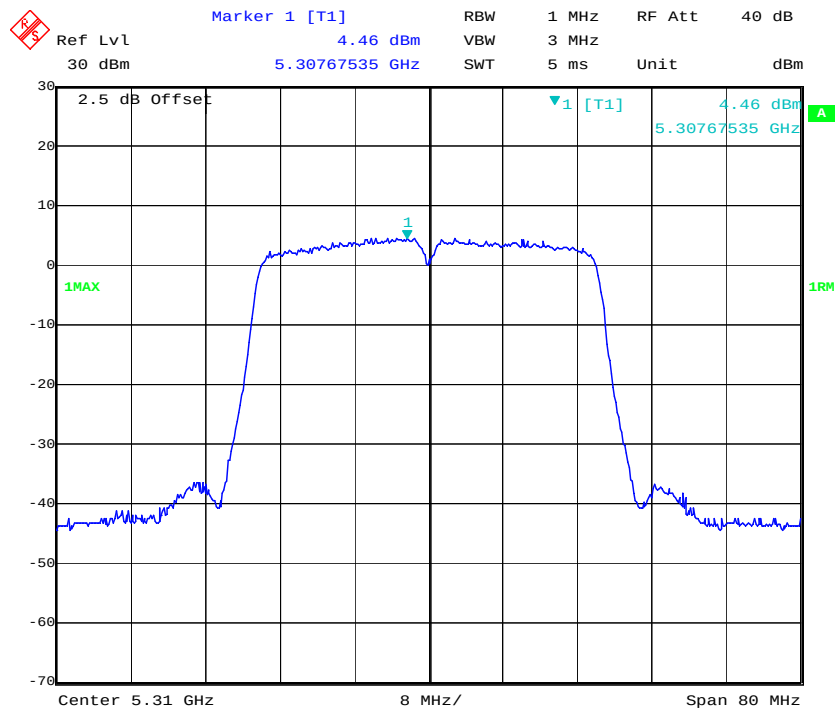
802.11n ht20 High Channel – Chain1



802.11n ht40 Low Channel – Chain1

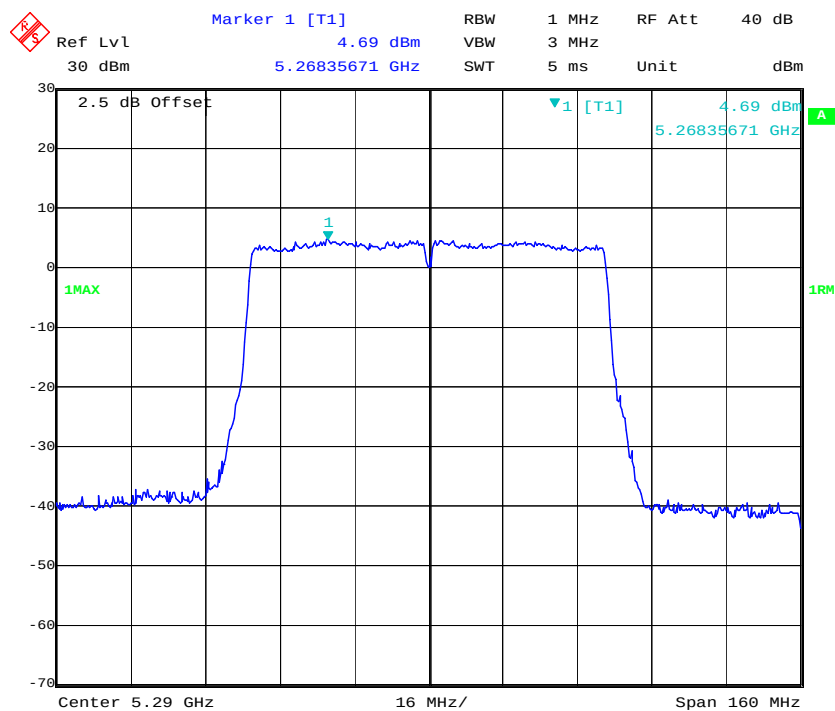


802.11n ht40 High Channel – Chain1



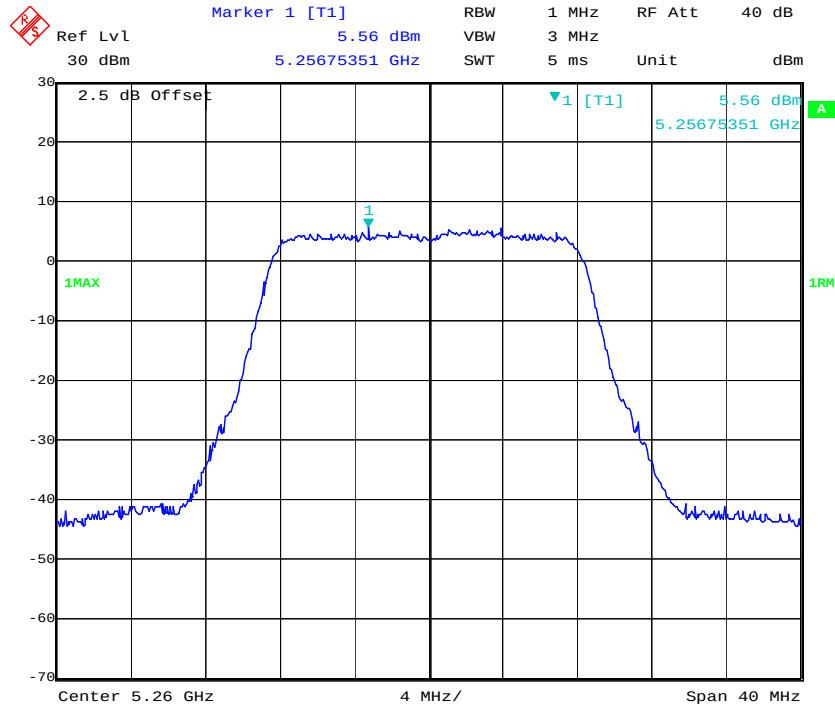
Date: 23.NOV.2016 14:32:05

802.11 ac80 Middle Channel – Chain1

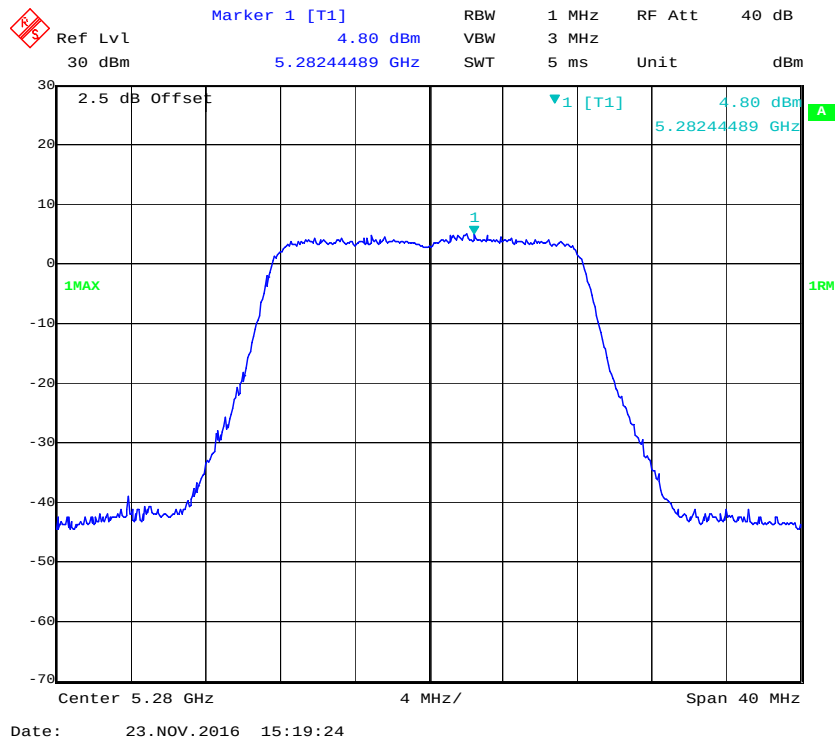


Date: 23.NOV.2016 14:18:34

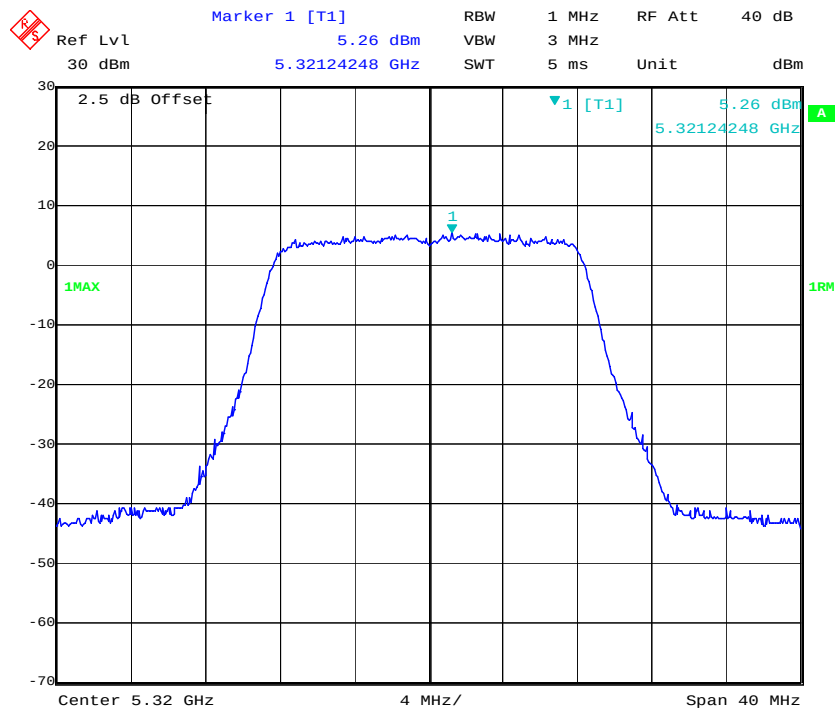
802.11a Low Channel – Chain2



802.11a Middle Channel – Chain2

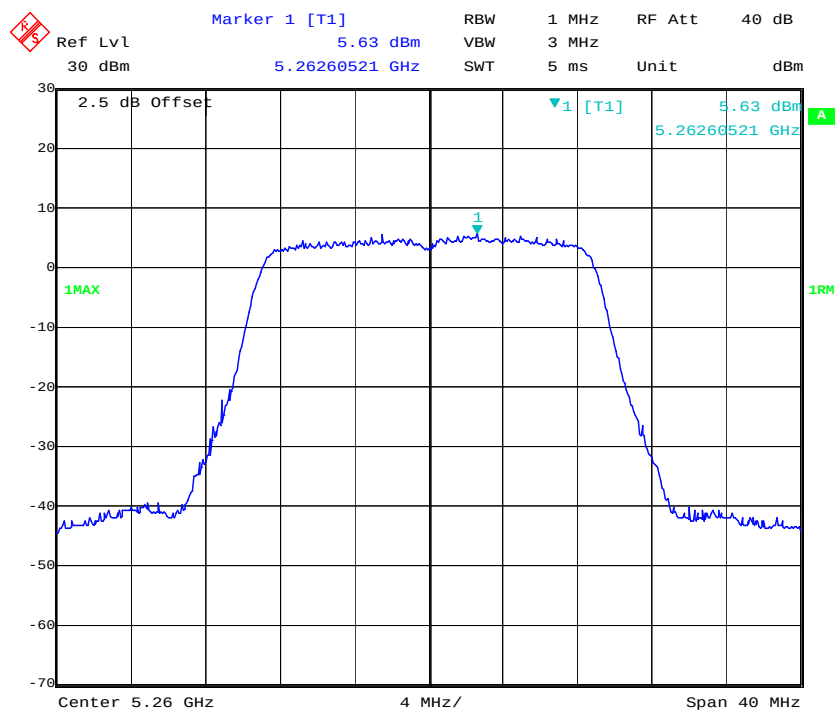


802.11a High Channel – Chain2



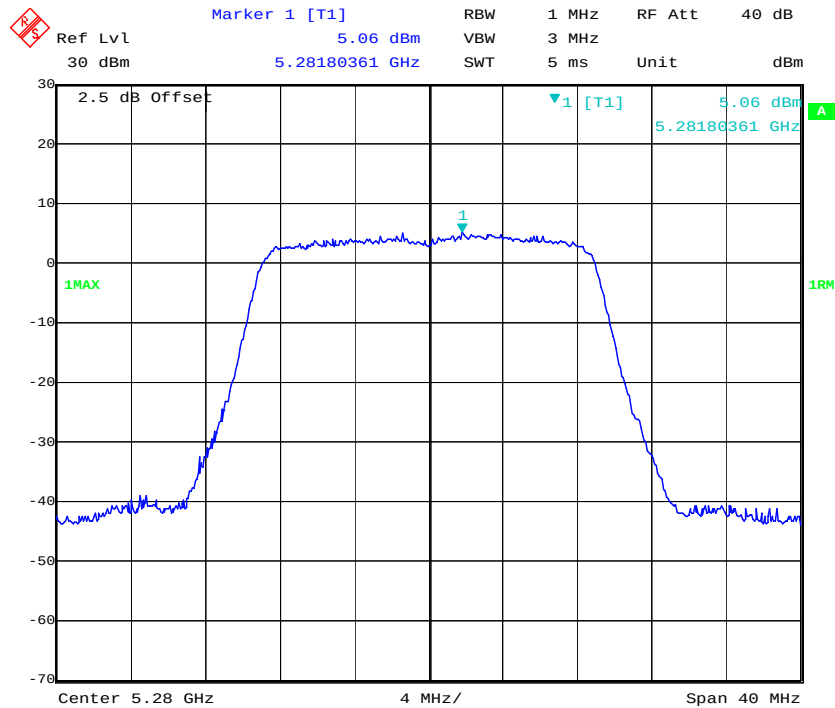
Date: 23.NOV.2016 15:17:41

802.11n ht20 Low Channel – Chain2

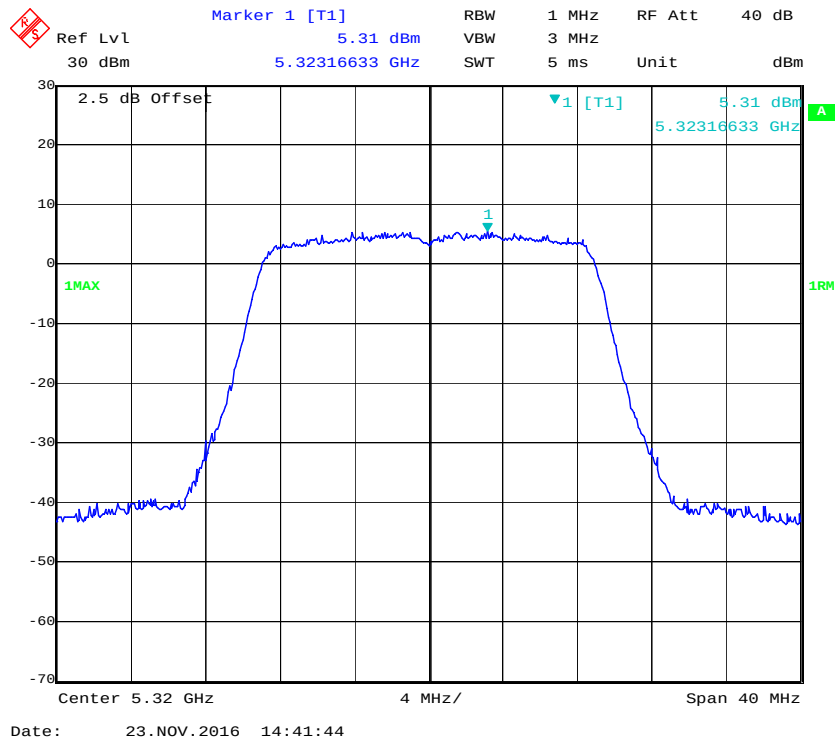


Date: 23.NOV.2016 14:45:32

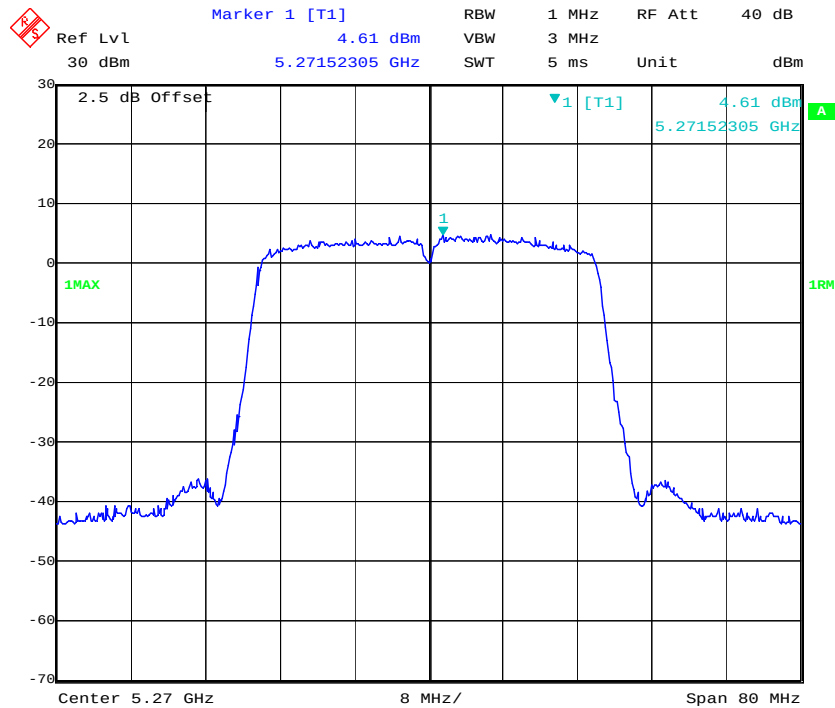
802.11n ht20 Middle Channel – Chain2



802.11n ht20 High Channel – Chain2

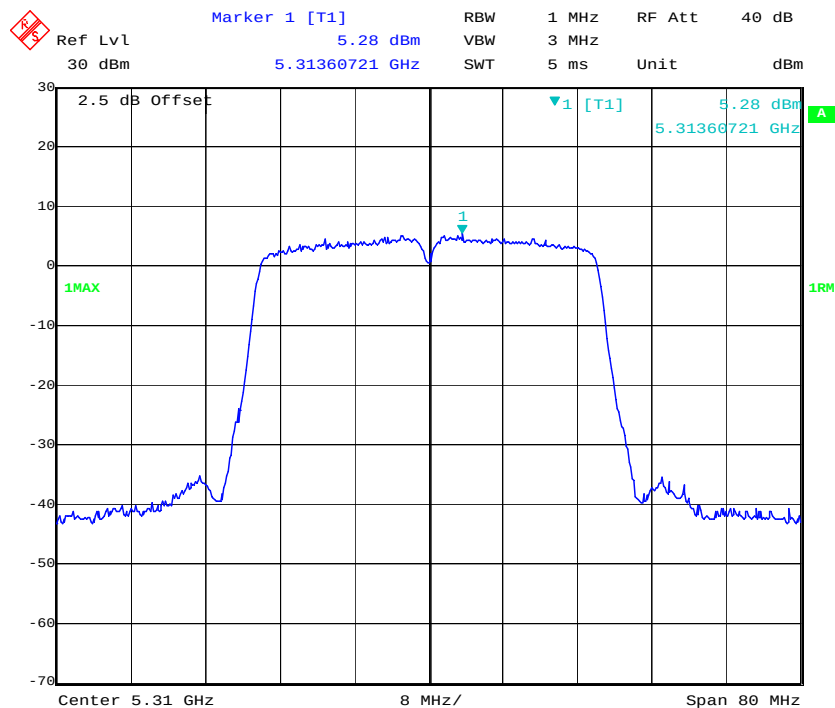


802.11n ht40 Low Channel – Chain2



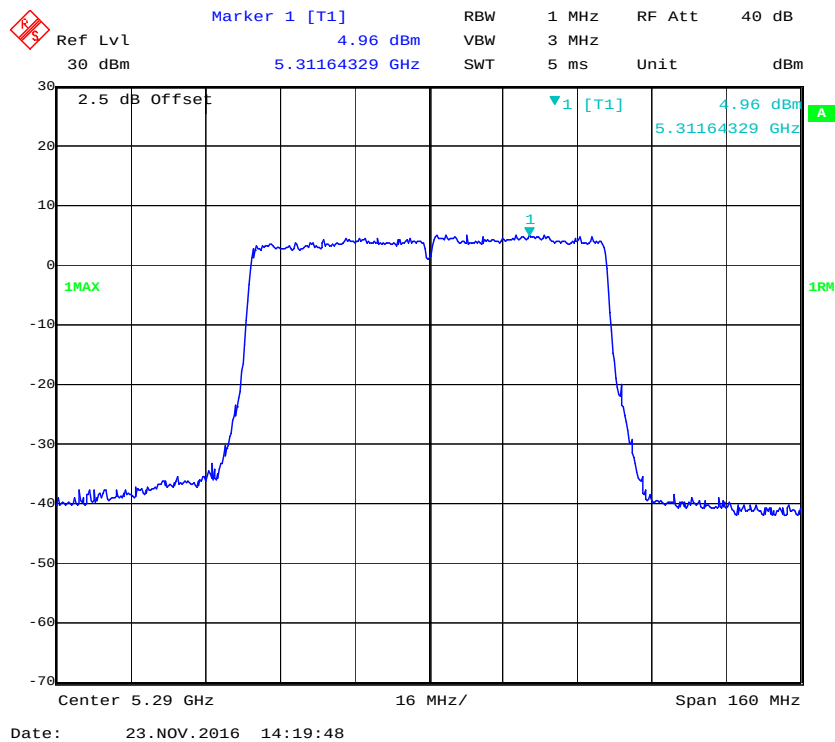
Date: 23.NOV.2016 14:25:16

802.11n ht40 High Channel – Chain2



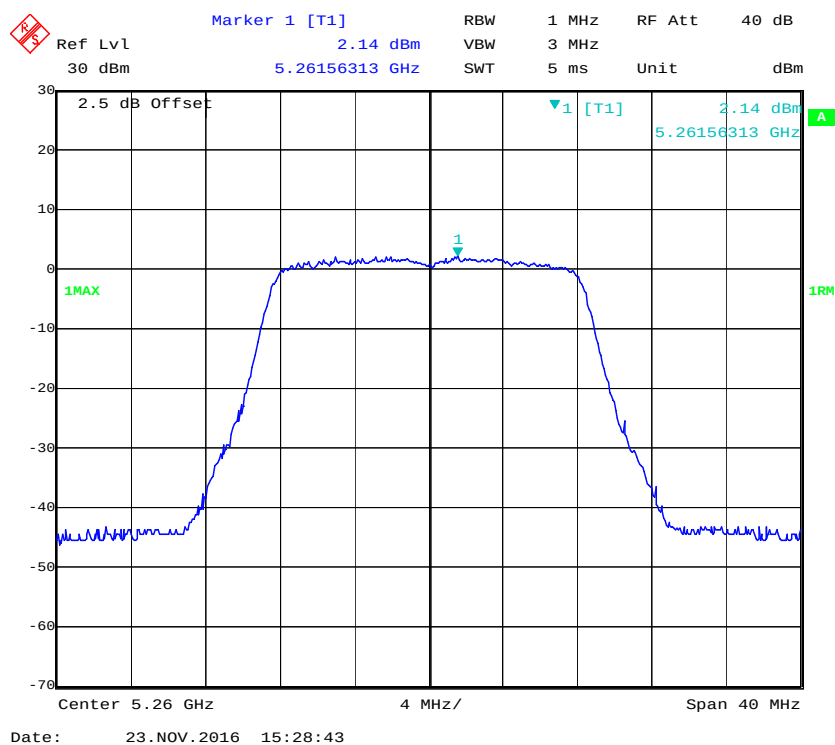
Date: 23.NOV.2016 14:28:17

802.11 ac80 Middle Channel – Chain2

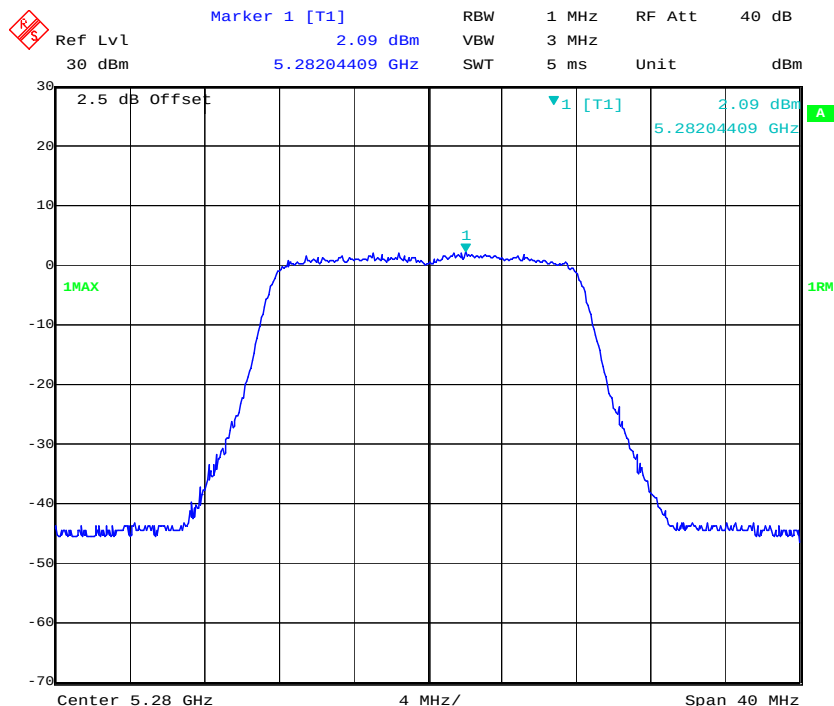


MIMO-4TX:

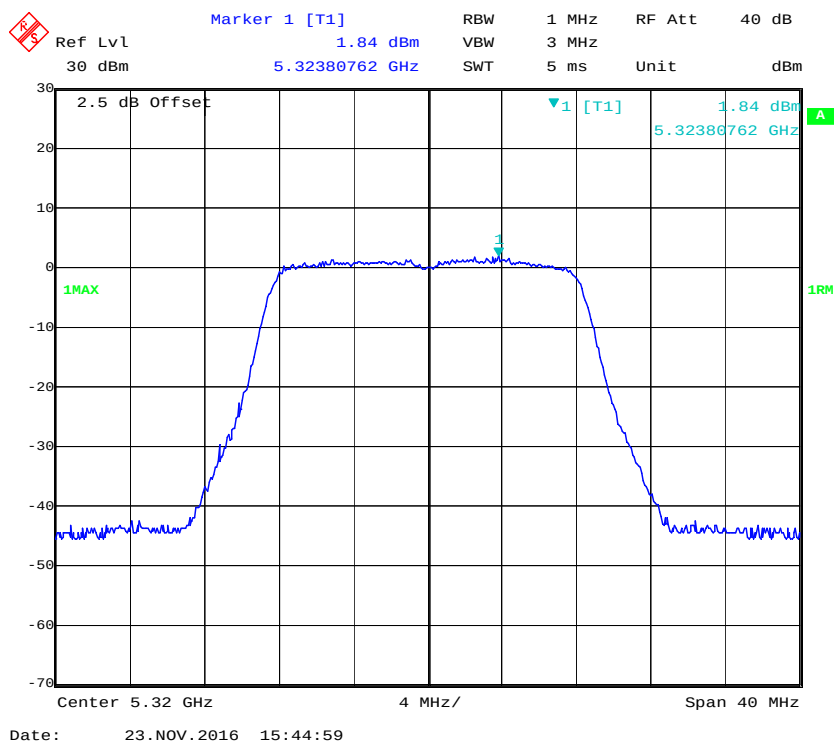
802.11a Low Channel – Chain0



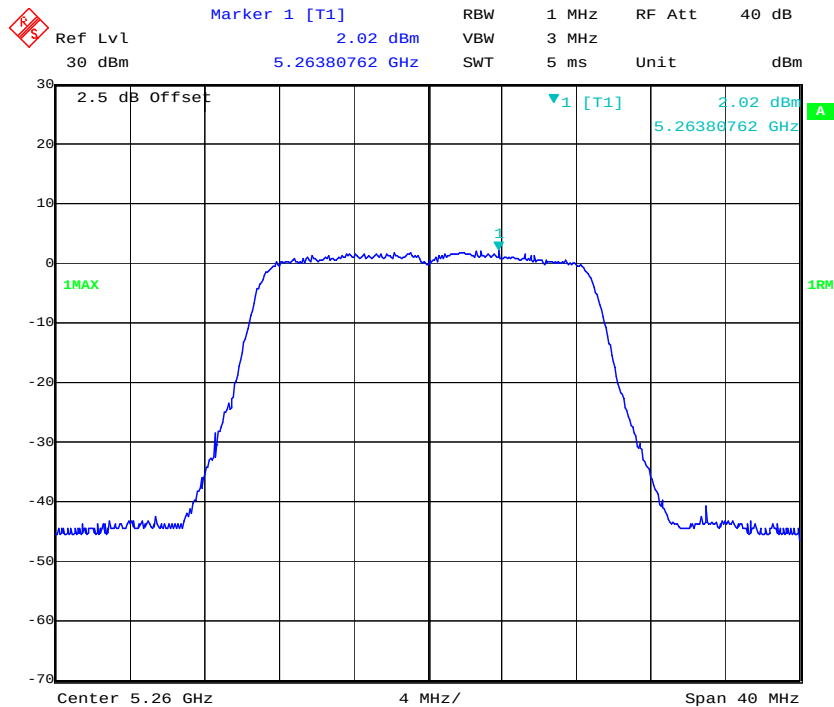
802.11a Middle Channel – Chain0



802.11a High Channel – Chain0

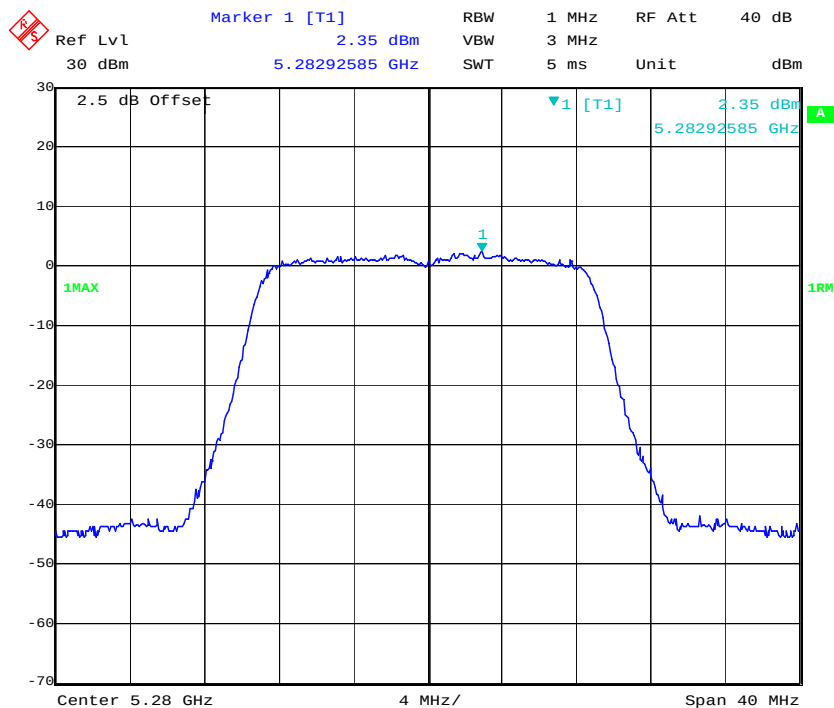


802.11n ht20 Low Channel – Chain0



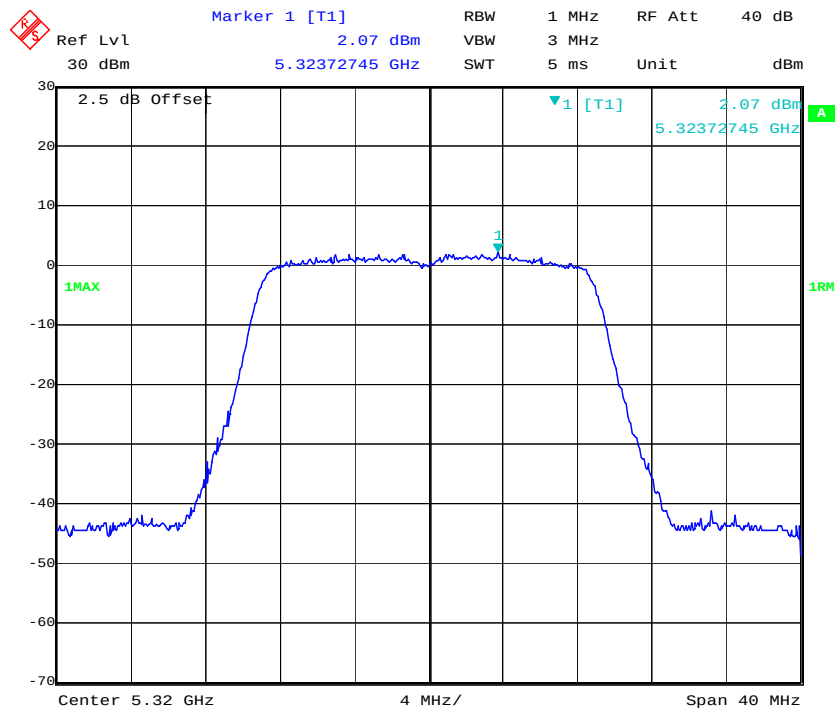
Date: 23.NOV.2016 15:50:25

802.11n ht20 Middle Channel – Chain0

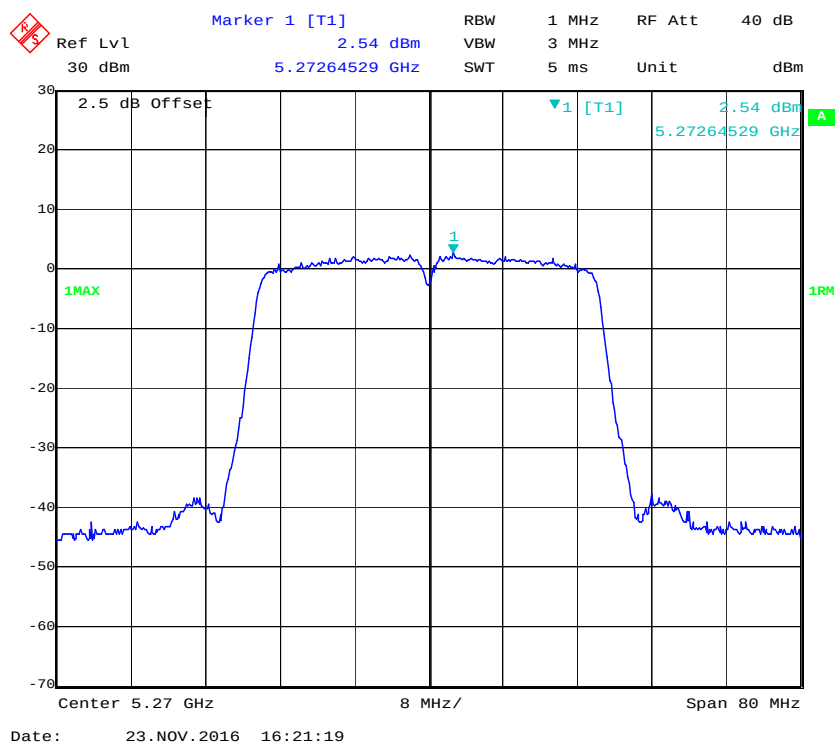


Date: 23.NOV.2016 16:17:19

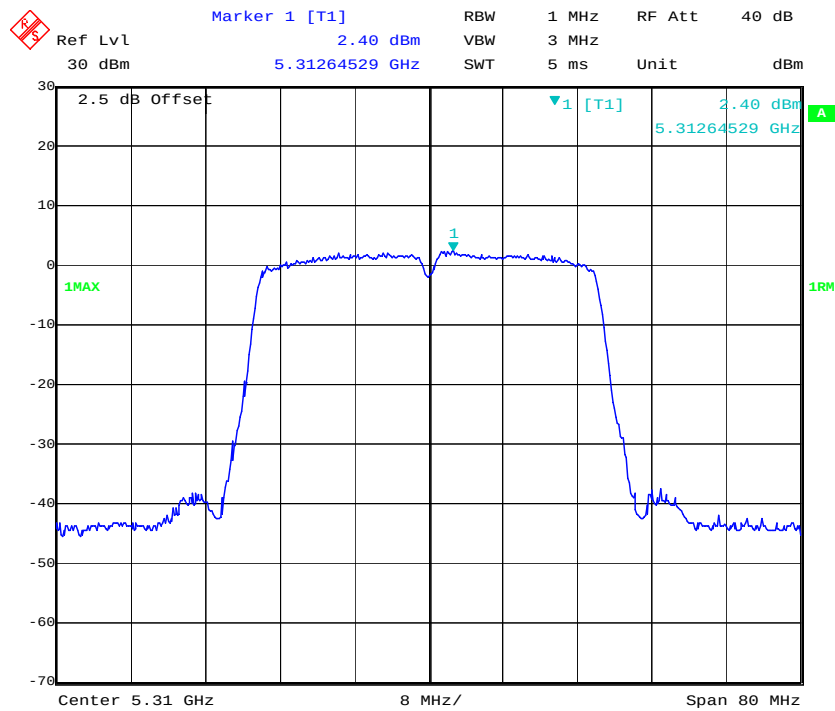
802.11n ht20 High Channel – Chain0



802.11n ht40 Low Channel – Chain0

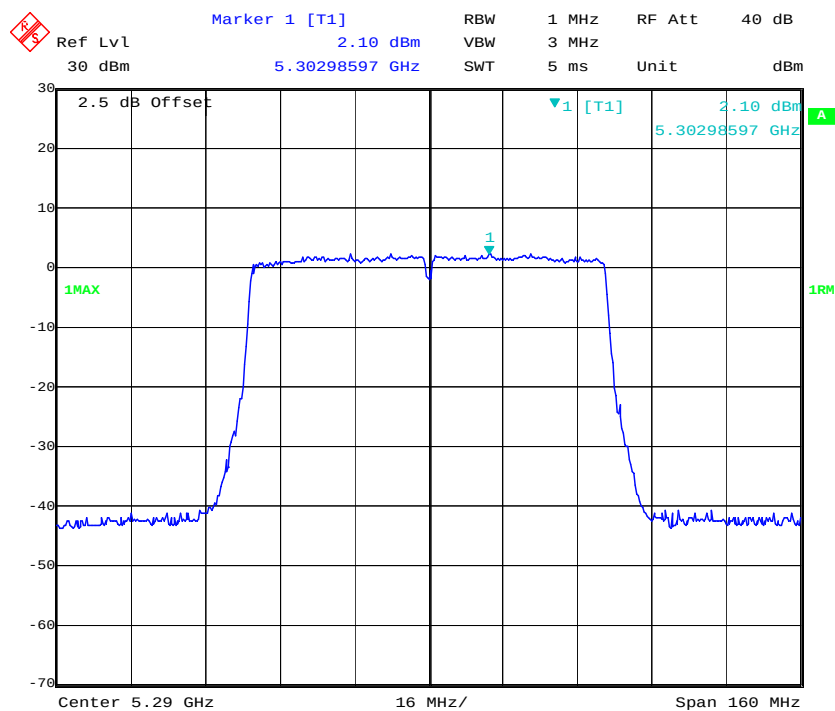


802.11n ht40 High Channel – Chain0



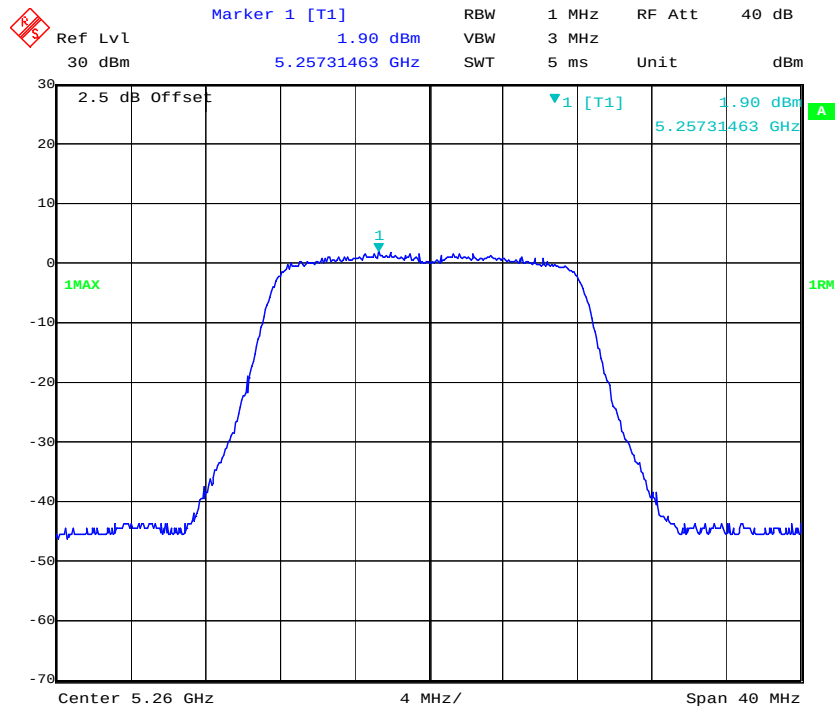
Date: 23.NOV.2016 16:31:08

802.11 ac80 Middle Channel – Chain0



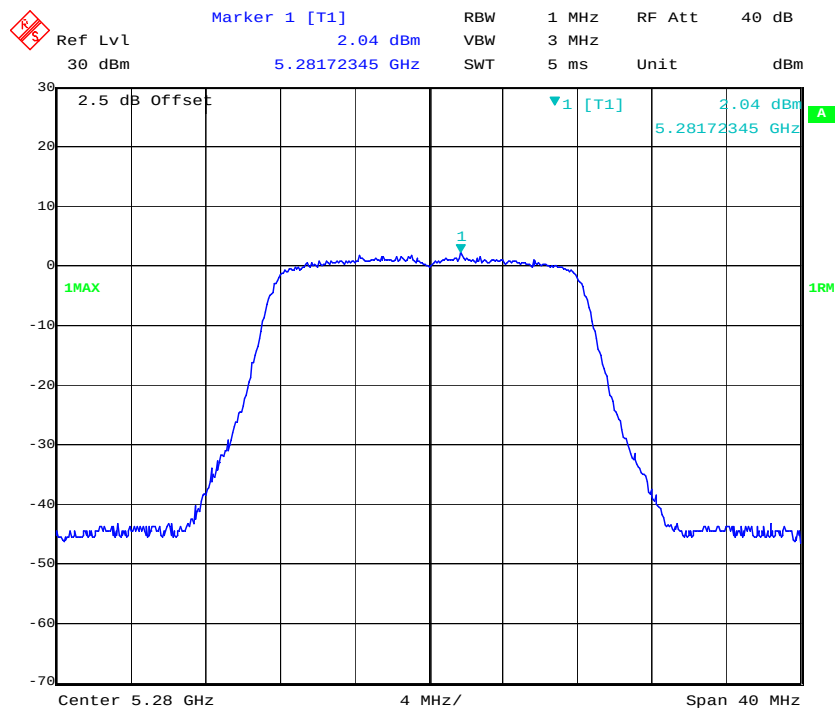
Date: 23.NOV.2016 16:34:54

802.11a Low Channel – Chain1



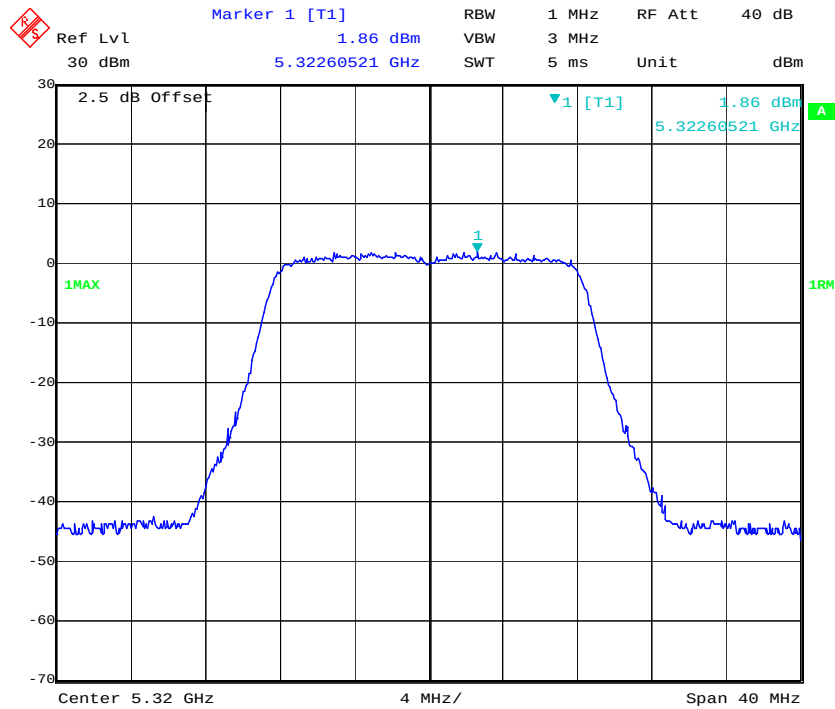
Date: 23.NOV.2016 15:30:14

802.11a Middle Channel – Chain1

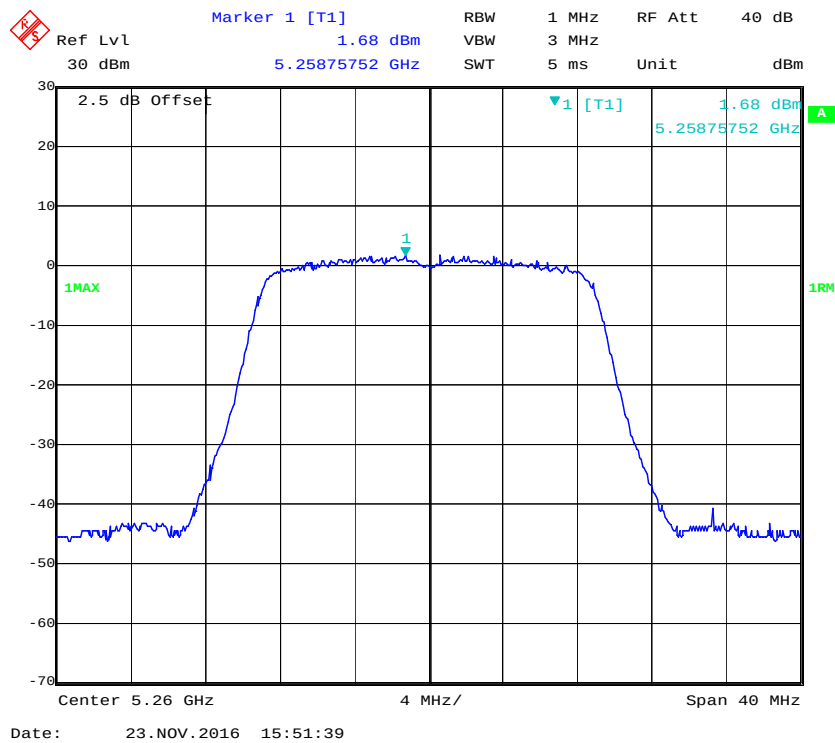


Date: 23.NOV.2016 15:42:23

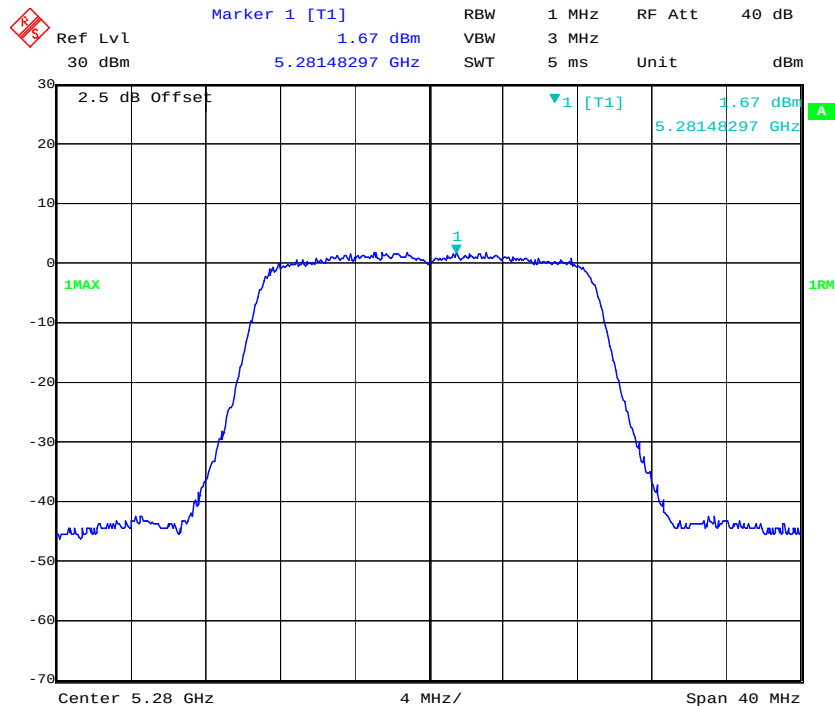
802.11a High Channel – Chain1



802.11n ht20 Low Channel – Chain1

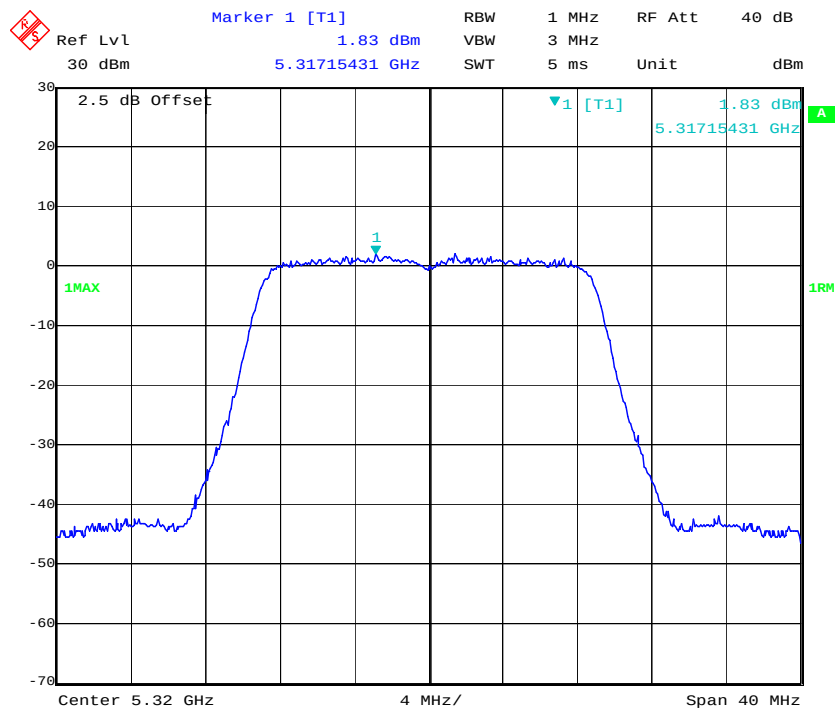


802.11n ht20 Middle Channel – Chain1



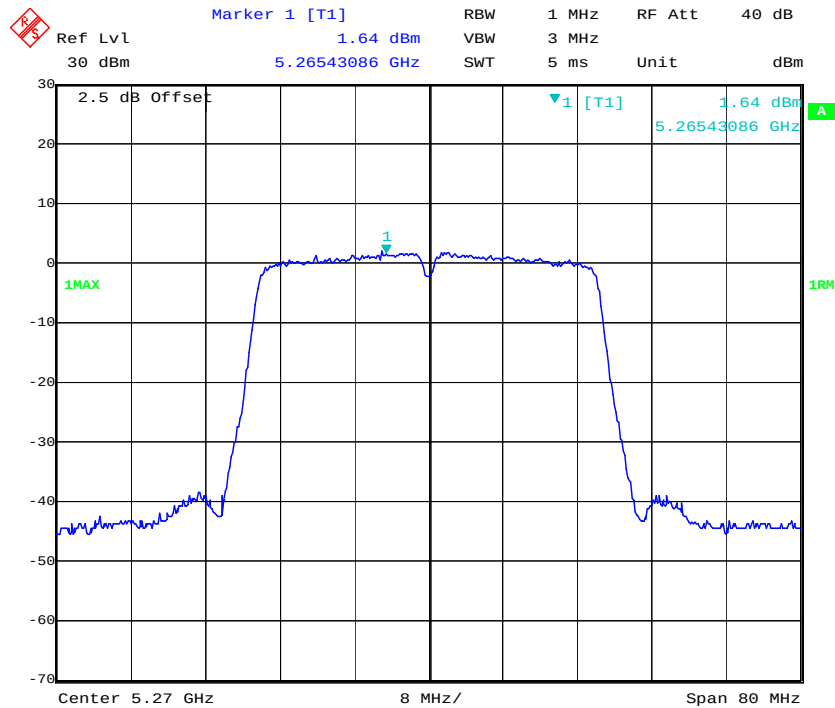
Date: 23.NOV.2016 16:12:55

802.11n ht20 High Channel – Chain1



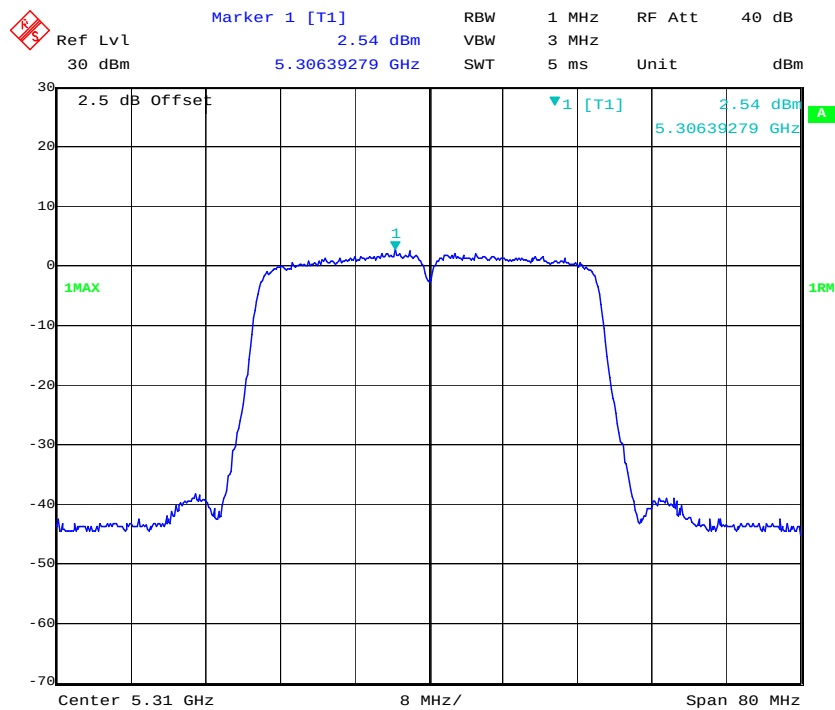
Date: 23.NOV.2016 16:14:22

802.11n ht40 Low Channel – Chain1



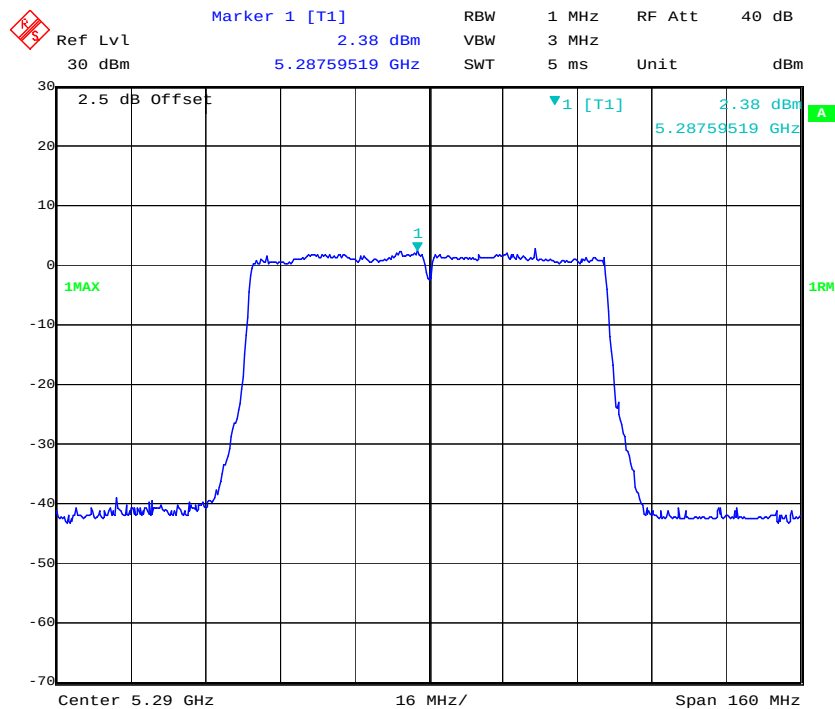
Date: 23.NOV.2016 16:22:37

802.11n ht40 High Channel – Chain1



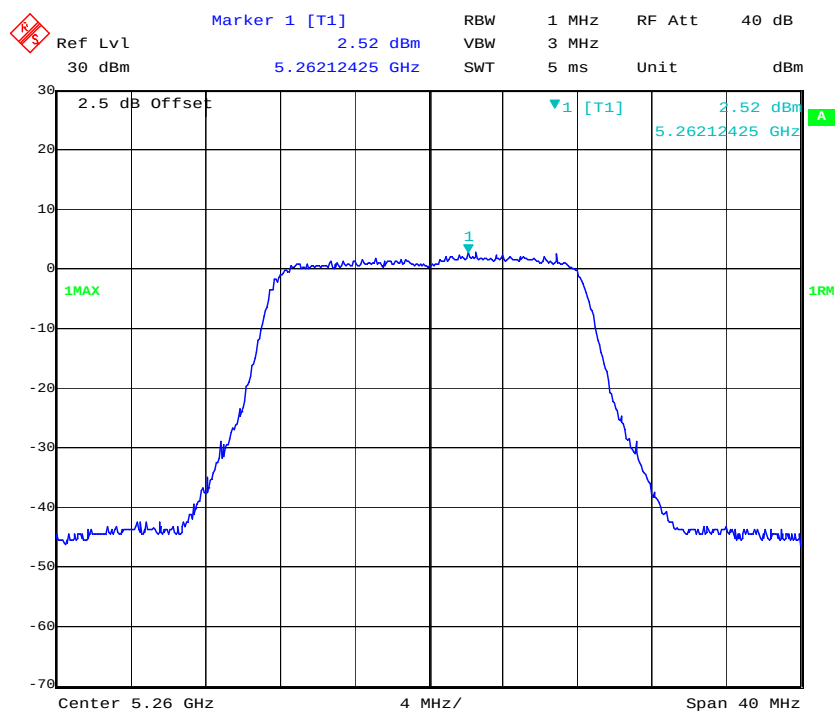
Date: 23.NOV.2016 16:29:54

802.11 ac80 Middle Channel – Chain1



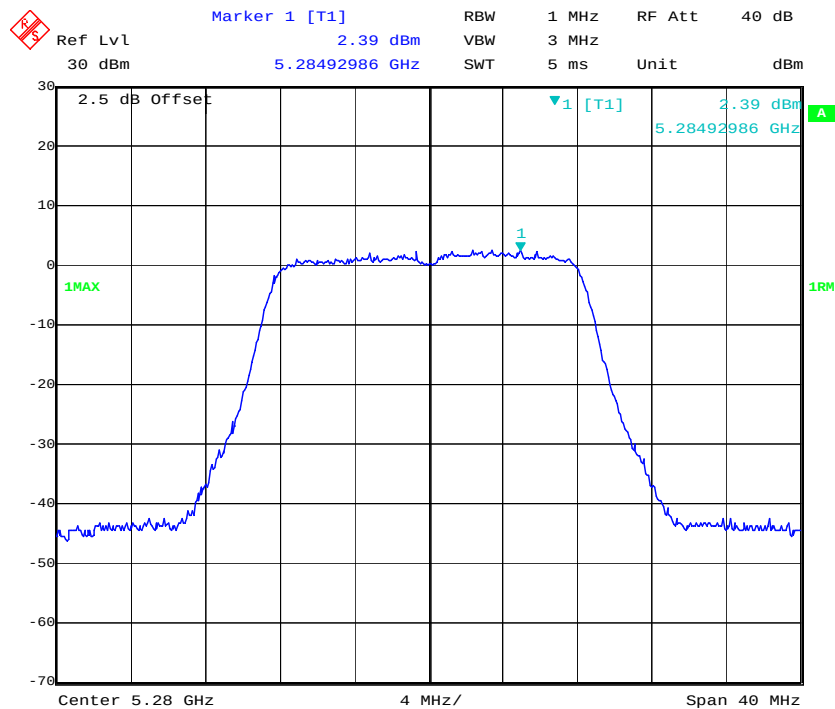
Date: 23.NOV.2016 16:36:14

802.11a Low Channel – Chain2



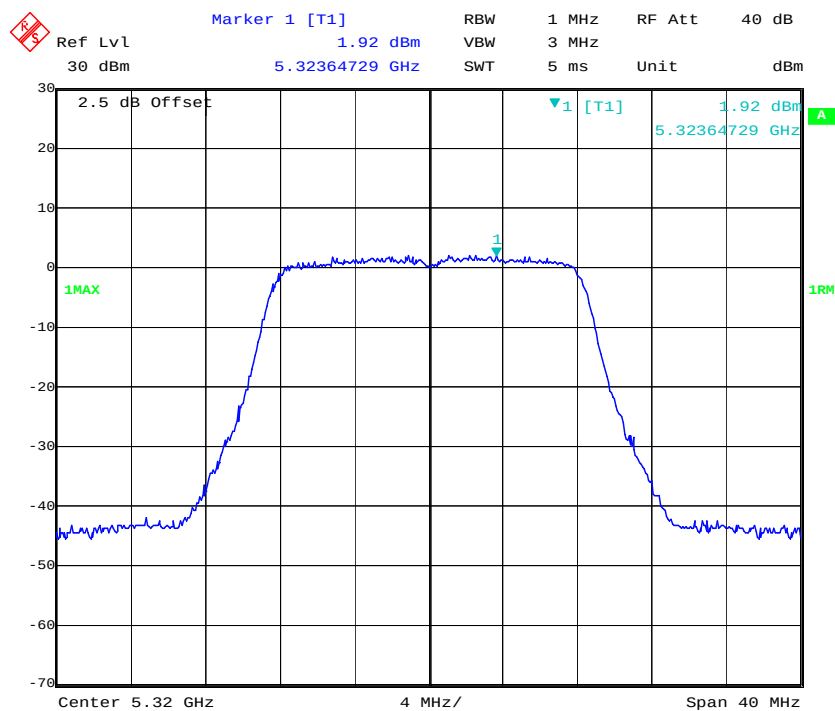
Date: 23.NOV.2016 15:31:30

802.11a Middle Channel – Chain2



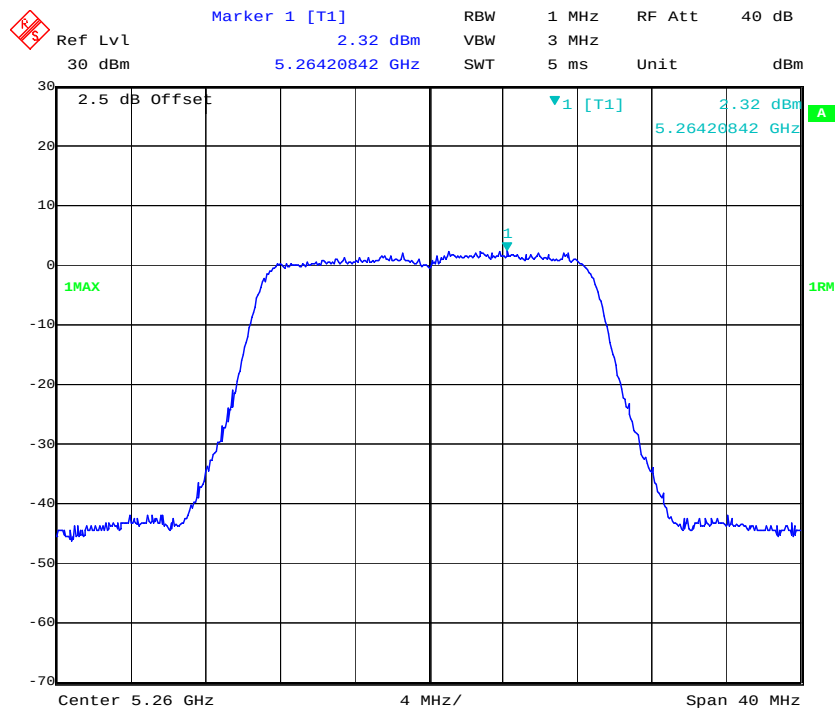
Date: 23.NOV.2016 15:41:02

802.11a High Channel – Chain2



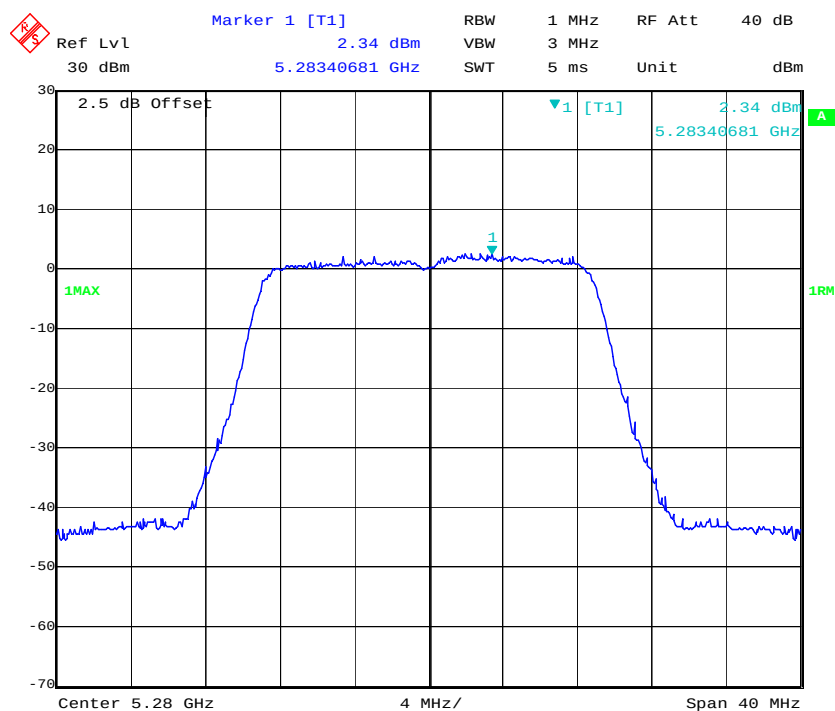
Date: 23.NOV.2016 15:37:24

802.11n ht20 Low Channel – Chain2



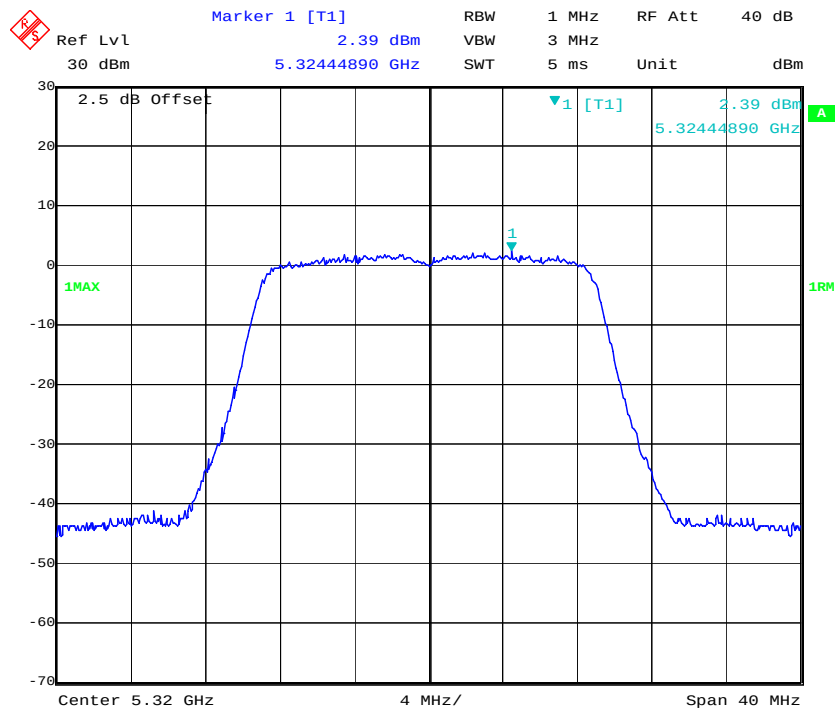
Date: 23.NOV.2016 15:53:06

802.11n ht20 Middle Channel – Chain2



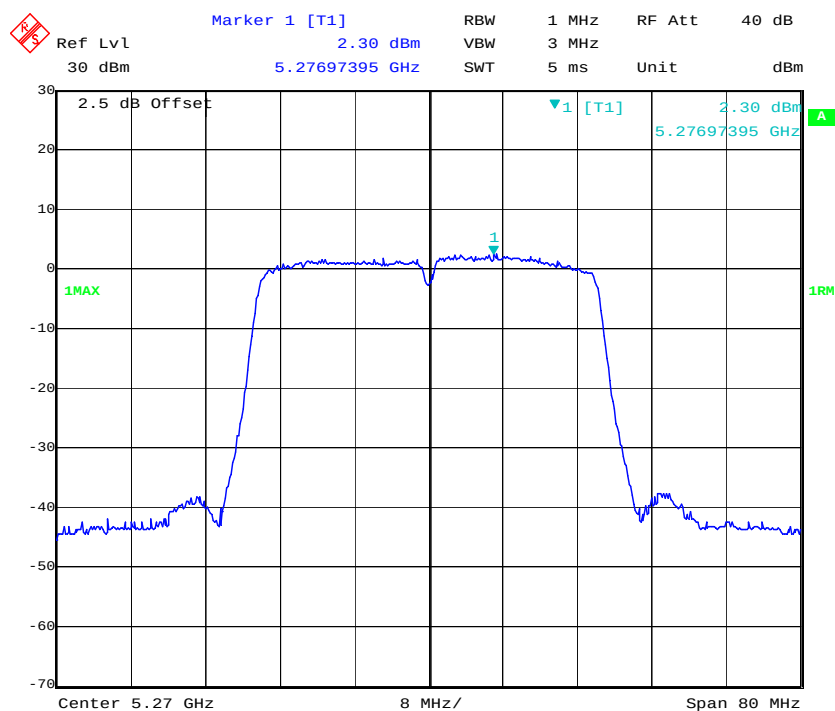
Date: 23.NOV.2016 16:11:38

802.11n ht20 High Channel – Chain2



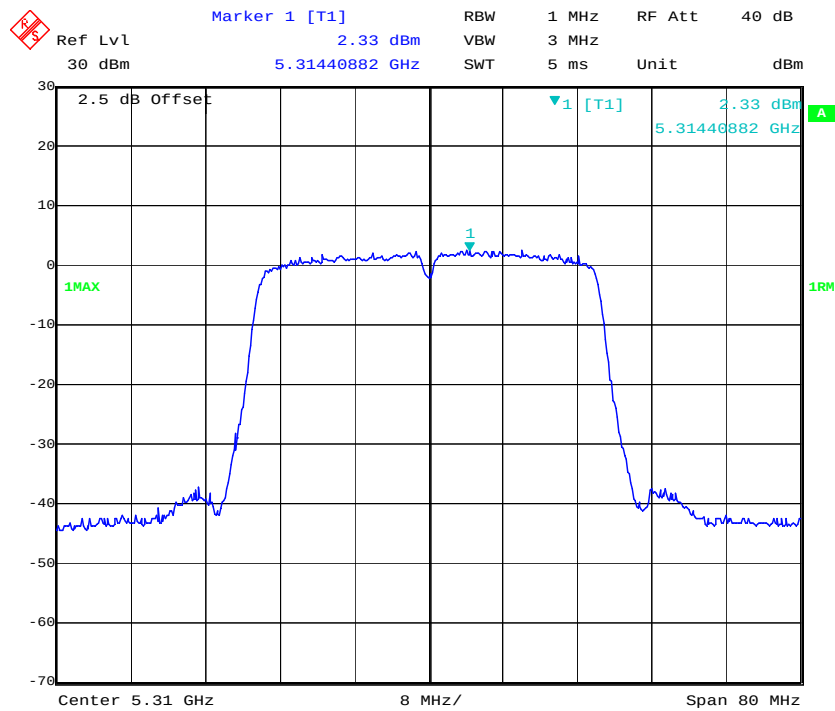
Date: 23.NOV.2016 16:07:00

802.11n ht40 Low Channel – Chain2



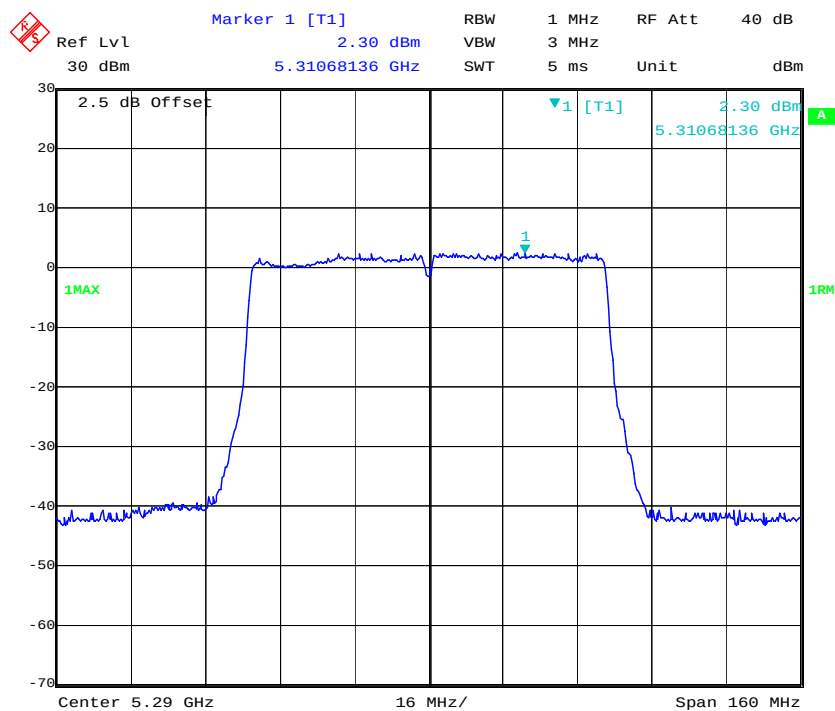
Date: 23.NOV.2016 16:23:55

802.11n ht40 High Channel – Chain2



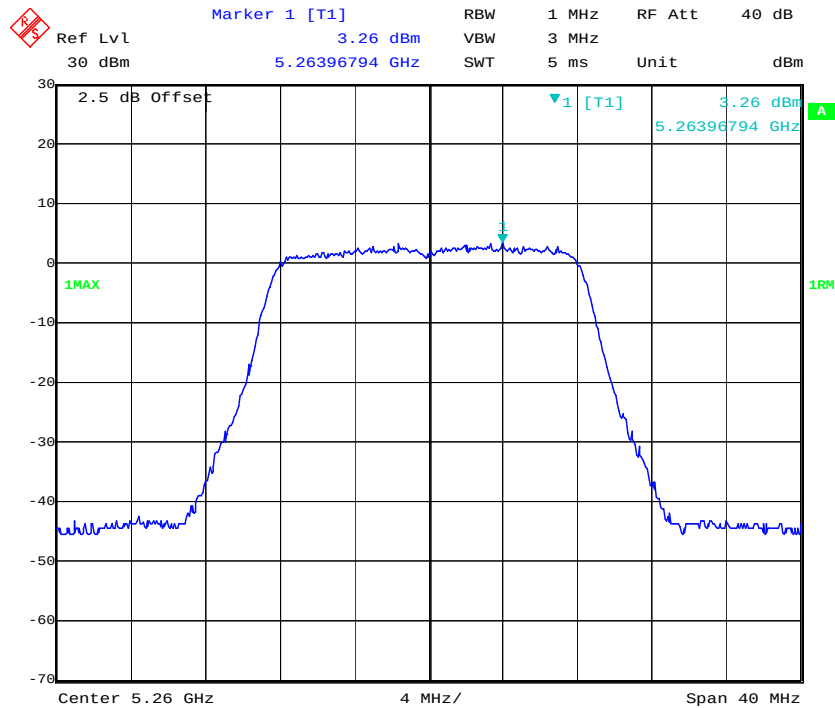
Date: 23.NOV.2016 16:28:36

802.11 ac80 Middle Channel – Chain2



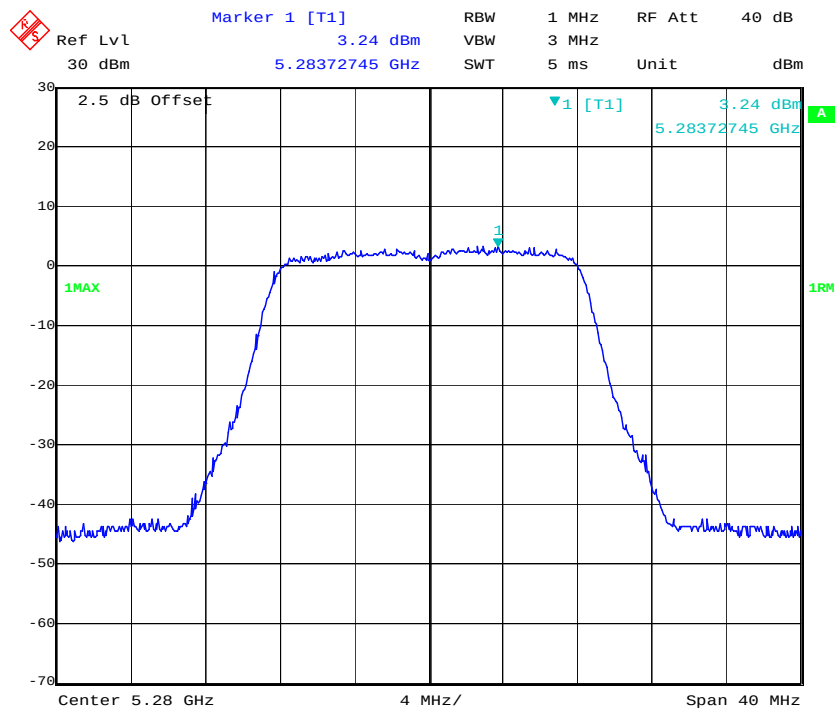
Date: 23.NOV.2016 16:37:39

802.11a Low Channel – Chain3



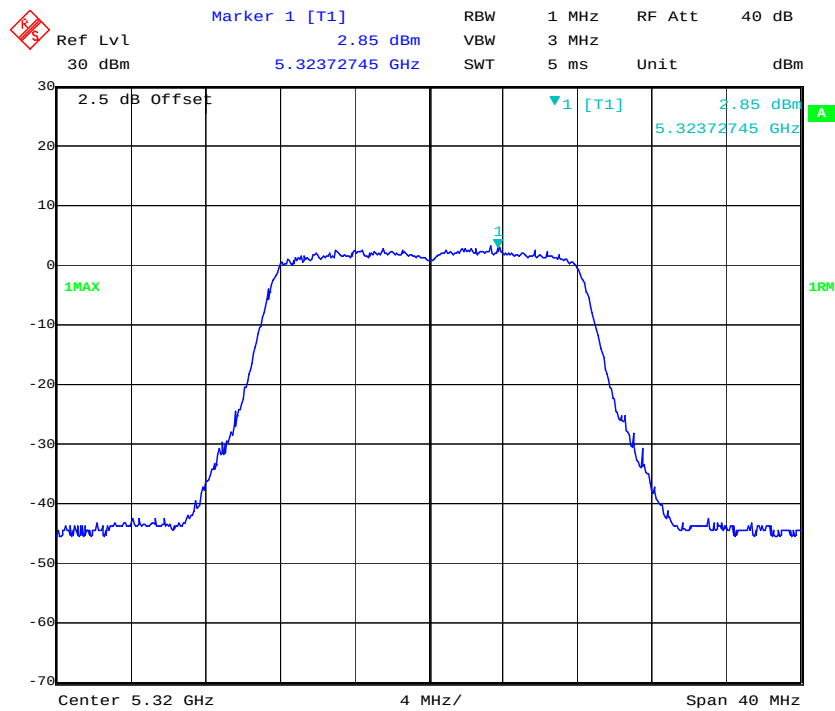
Date: 23.NOV.2016 15:32:53

802.11a Middle Channel – Chain3



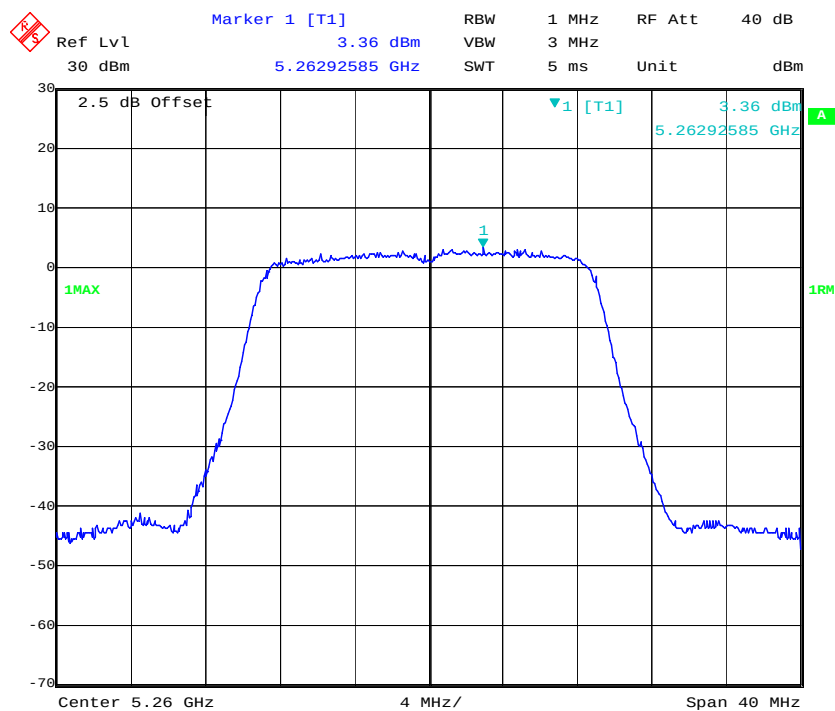
Date: 23.NOV.2016 15:34:30

802.11a High Channel – Chain3



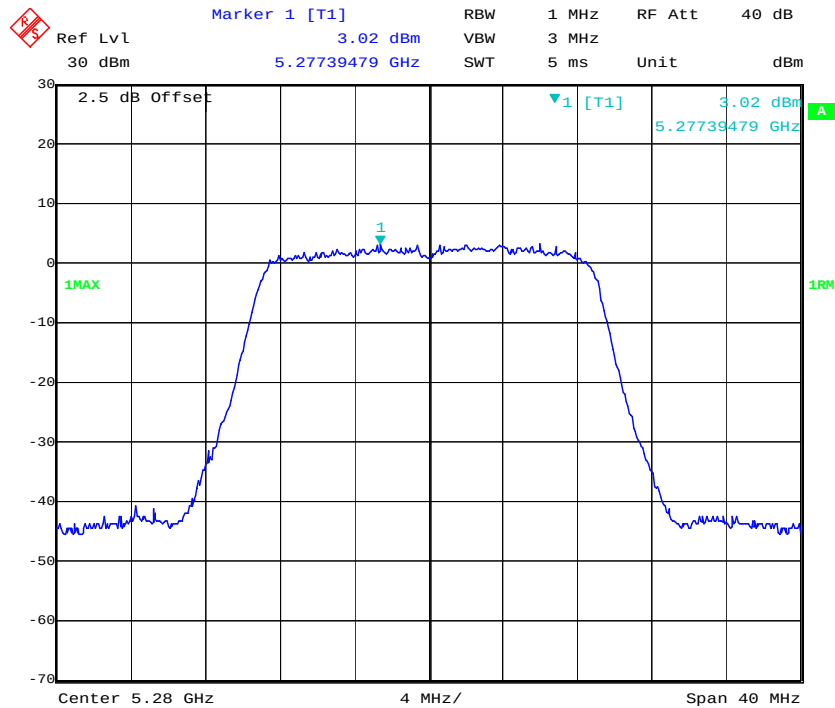
Date: 23.NOV.2016 15:36:06

802.11n ht20 Low Channel – Chain3



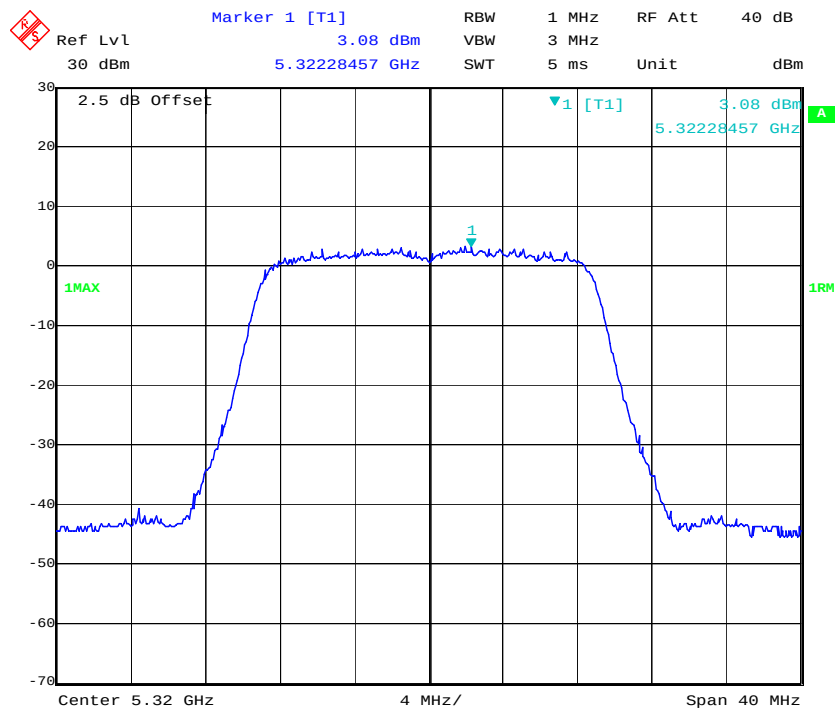
Date: 23.NOV.2016 15:54:31

802.11n ht20 Middle Channel – Chain3



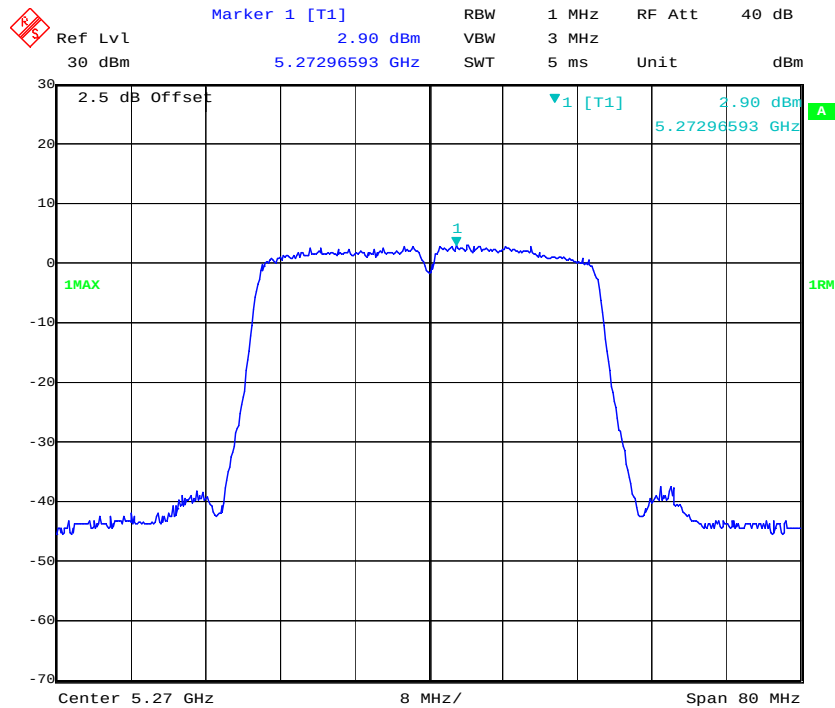
Date: 23.NOV.2016 16:04:01

802.11n ht20 High Channel – Chain3



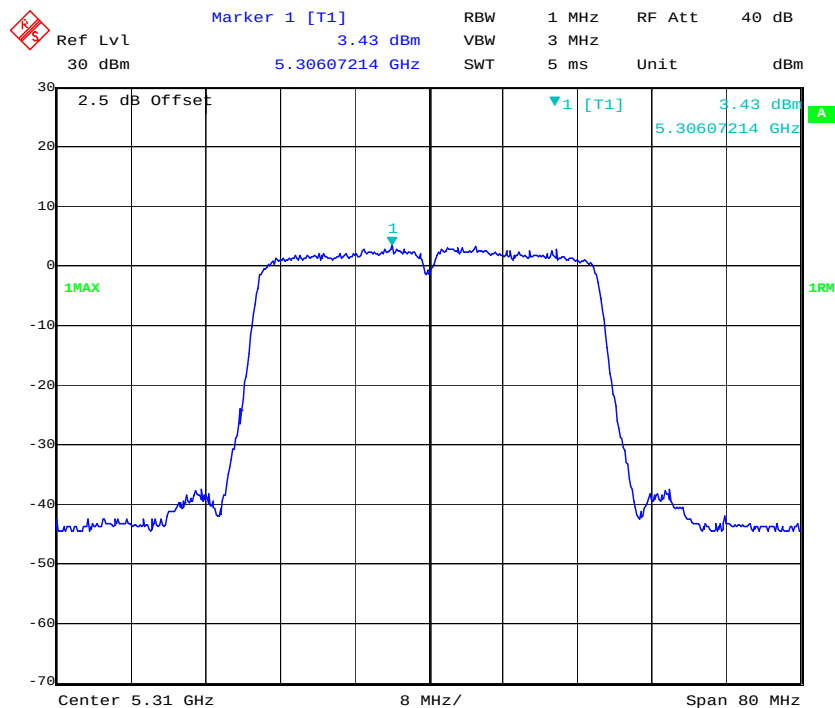
Date: 23.NOV.2016 16:05:27

802.11n ht40 Low Channel – Chain3



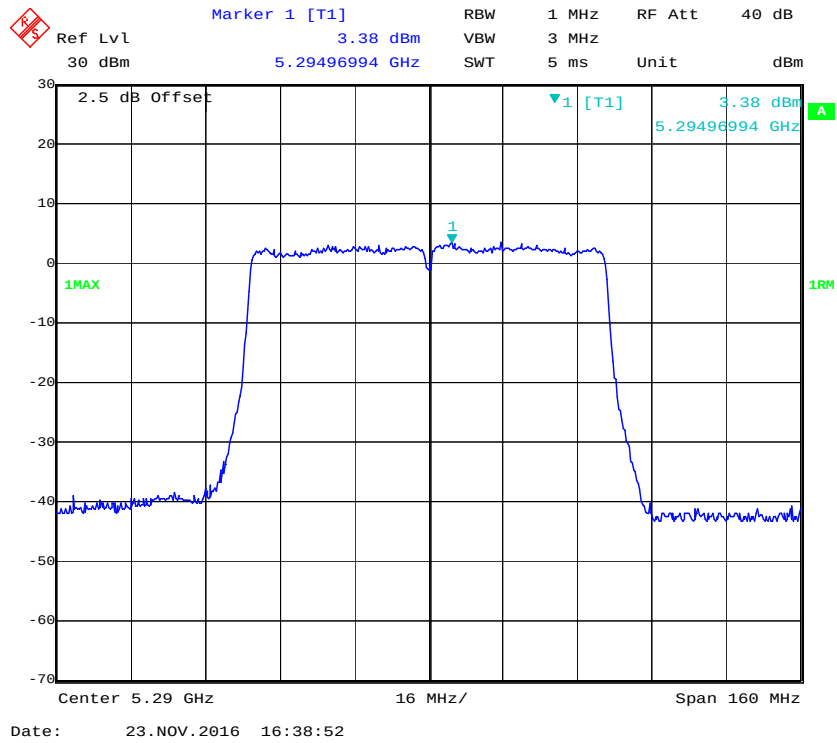
Date: 23.NOV.2016 16:25:15

802.11n ht40 High Channel – Chain3



Date: 23.NOV.2016 16:27:07

802.11 ac80 Middle Channel – Chain3



5470-5725MHz(For cross channels, the maximum test result meets the requirements of 5470-5725MHz, which is stricter than the requirements of 5725-5850MHz band):

SISO:

Mode	Frequency (MHz)	Test Data (dBm/MHz)				Duty Cycle Factor (dB)	Power Spectral Density (dBm/MHz)				Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3		Chain 0	Chain 1	Chain 2	Chain 3	
802.11 a	5500	10.35	10.54	10.25	10.9	0	10.35	10.54	10.25	10.9	11
	5600	10.84	10.53	10.85	10.87	0	10.84	10.53	10.85	10.87	11
	5700	10.24	10.47	10.46	10.28	0	10.24	10.47	10.46	10.28	11
	5720	10.95	10.34	10.15	10.84	0	10.95	10.34	10.15	10.84	11
802.11 n20	5500	10.39	10.37	10.46	10.99	0	10.39	10.37	10.46	10.99	11
	5600	10.25	10.14	10.96	10.84	0	10.25	10.14	10.96	10.84	11
	5700	10.48	10.05	10.48	10.35	0	10.48	10.05	10.48	10.35	11
	5720	10.67	10.31	10.64	10.64	0	10.67	10.31	10.64	10.64	11
802.11 n40	5510	8.92	8.58	8.48	9.25	0	8.92	8.58	8.48	9.25	11
	5590	8.82	8.56	9.42	9.25	0	8.82	8.56	9.42	9.25	11
	5670	10.67	10.17	10.84	10.69	0	10.67	10.17	10.84	10.69	11
	5710	10.23	9.35	9.53	10.36	0	10.23	9.35	9.53	10.36	11
802.11 ac80	5530	4.96	4.98	5.36	5.71	0.15	5.11	5.13	5.51	5.86	11
	5610	5.46	5.21	5.93	6.08	0.15	5.61	5.36	6.08	6.23	11
	5690	5.49	4.66	5.29	5.47	0.15	5.64	4.81	5.44	5.62	11

MIMO-2TX:

Mode	Frequency (MHz)	Test Data (dBm/MHz)		Total (dBm/MHz)	Duty Cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1				
802.11 a	5500	7.34	8.49	10.96	0	10.96	11
	5600	7.25	7.56	10.42	0	10.42	11
	5700	7.68	7.79	10.75	0	10.75	11
	5720	7.86	7.99	10.94	0	10.94	11
802.11 n20	5500	7.79	7.91	10.86	0	10.86	11
	5600	7.41	7.41	10.42	0	10.42	11
	5700	7.65	7.57	10.62	0	10.62	11
	5720	7.83	7.93	10.89	0	10.89	11
802.11 n40	5510	7.29	7.4	10.36	0	10.36	11
	5590	7.25	7.23	10.25	0	10.25	11
	5670	7.85	7.27	10.58	0	10.58	11
	5710	7.91	7.22	10.59	0	10.59	11
802.11 ac80	5530	4.6	4.59	7.61	0.15	7.76	11
	5610	4.44	4.81	7.64	0.15	7.79	11
	5690	4.77	4.31	7.56	0.15	7.71	11

Note: the device is a master device. the 3 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB.

So:

Directional gain = GANT + Array Gain = $2 + 10 \log(2) = 5 \text{ dBi} < 6 \text{ dBi}$

MIMO-3TX:

Mode	Frequency (MHz)	Test Data (dBm/MHz)			Total (dBm/MHz)	Duty Cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2				
802.11 a	5500	4.91	4.99	5.95	10.08	0	10.08	10.23
	5600	4.34	4.97	5.35	9.68	0	9.68	10.23
	5700	5.11	4.97	5.61	10.01	0	10.01	10.23
	5720	5.37	5.09	5.59	10.13	0	10.13	10.23
802.11 n20	5500	5.01	4.51	5.92	9.96	0	9.96	10.23
	5600	4.38	4.91	5.54	9.74	0	9.74	10.23
	5700	4.38	4.78	5.06	9.52	0	9.52	10.23
	5720	4.8	4.93	5.3	9.79	0	9.79	10.23
802.11 n40	5510	4.8	4.53	5.39	9.69	0	9.69	10.23
	5590	4.18	4.08	5.16	9.27	0	9.27	10.23
	5670	4.79	4.54	5.36	9.68	0	9.68	10.23
	5710	5.21	4.51	5.91	10.02	0	10.02	10.23
802.11 ac80	5530	4.58	4.71	4.95	9.52	0.15	9.67	10.23
	5610	4.52	4.58	5.06	9.5	0.15	9.65	10.23
	5690	4.83	4.24	5.19	9.54	0.15	9.69	10.23

Note: the device is a master device. the 3 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB.

So:

Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 2 + 10 \cdot \log(3) = 6.77 \text{ dBi} > 6 \text{ dBi}$

Power density Limits = $11 - (6.77 - 6) = 10.23 \text{ dBm/MHz}$

MIMO-4T4R:

Mode	Frequency (MHz)	Test Data (dBm/MHz)				Total (dBm/MHz)	Duty Cycle Factor (dB)	Power Spectral Density (dBm/MHz)	Limit (dBm/MHz)
		Chain 0	Chain 1	Chain 2	Chain 3				
802.11 a	5500	1.65	1.4	2.18	2.97	8.11	0	8.11	9
	5600	2.66	2.88	3.02	3.15	8.95	0	8.95	9
	5700	2.5	2.35	2.98	2.43	8.59	0	8.59	9
	5720	2.48	2.53	2.86	3.15	8.78	0	8.78	9
802.11 n20	5500	1.74	1.51	2.59	2.7	8.19	0	8.19	9
	5600	1.81	2.28	2.56	2.87	8.42	0	8.42	9
	5700	2.78	2.76	3.37	2.54	8.89	0	8.89	9
	5720	2.72	2.49	3.09	3.38	8.95	0	8.95	9
802.11 n40	5510	1.97	1.77	2.87	2.94	8.44	0	8.44	9
	5590	1.87	1.83	3.07	3.33	8.6	0	8.6	9
	5670	2.57	2.32	3.22	2.51	8.54	0	8.54	9
	5710	2.7	2.44	3.07	3.12	8.86	0	8.86	9
802.11 ac80	5530	1.74	1.83	2.76	2.99	8.39	0.15	8.54	9
	5610	1.94	1.72	2.75	2.95	8.39	0.15	8.54	9
	5690	2.79	2.63	2.96	2.56	8.76	0.15	8.91	9

Note: the device is a master device. the 4 antenna maximum antenna gain are 2.0dBi, and employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

Array Gain = $10 \log(N_{\text{ANT}}/N_{\text{SS}})$ dB.

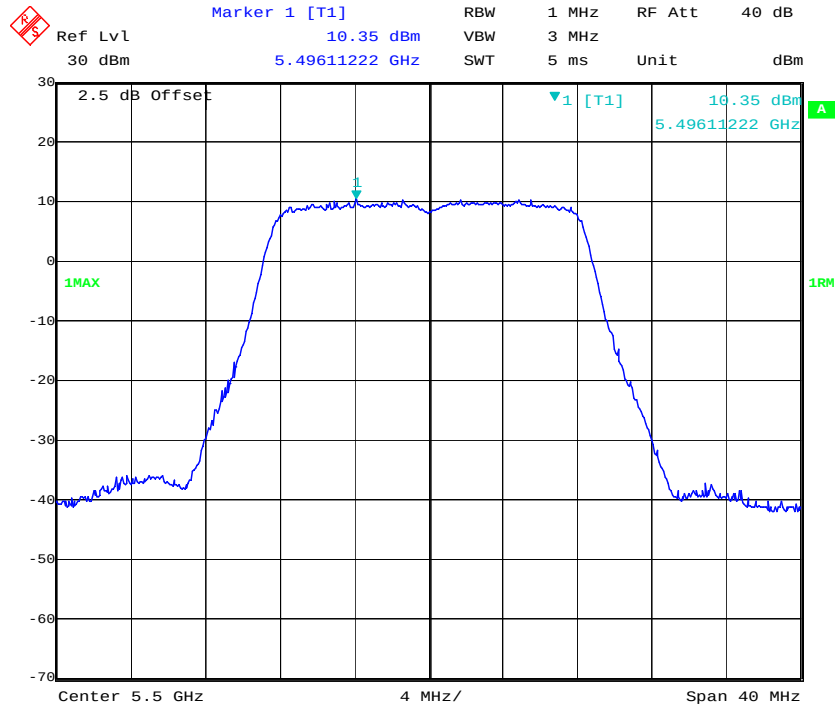
So:

Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 2 + 10 \log(4) = 8 \text{ dBi} > 6 \text{ dBi}$

Power density Limits = $11 - (8 - 6) = 9 \text{ dBm/MHz}$

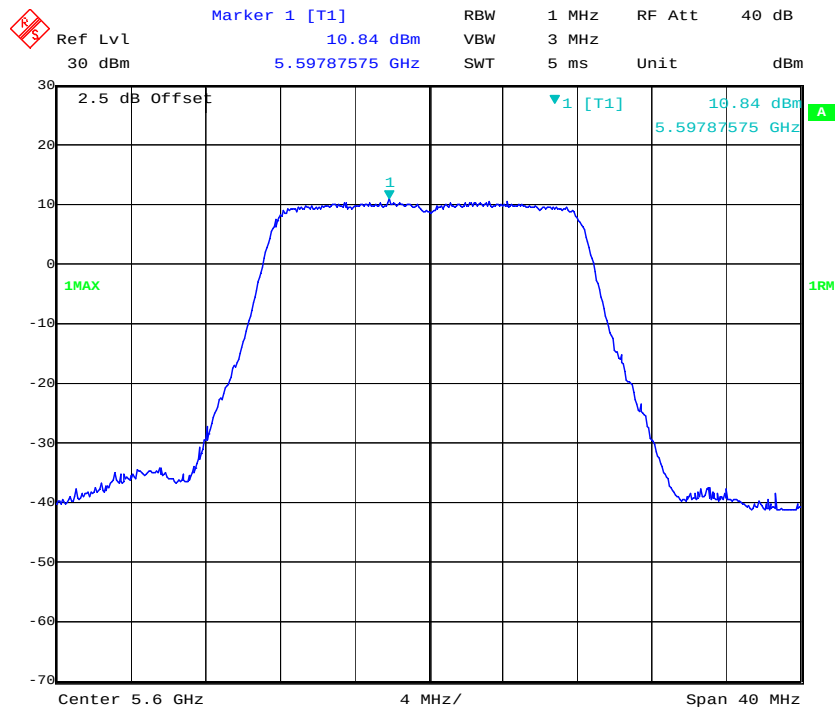
5470MHz-5725MHz:
SISO:

802.11a Low Channel – Chain0



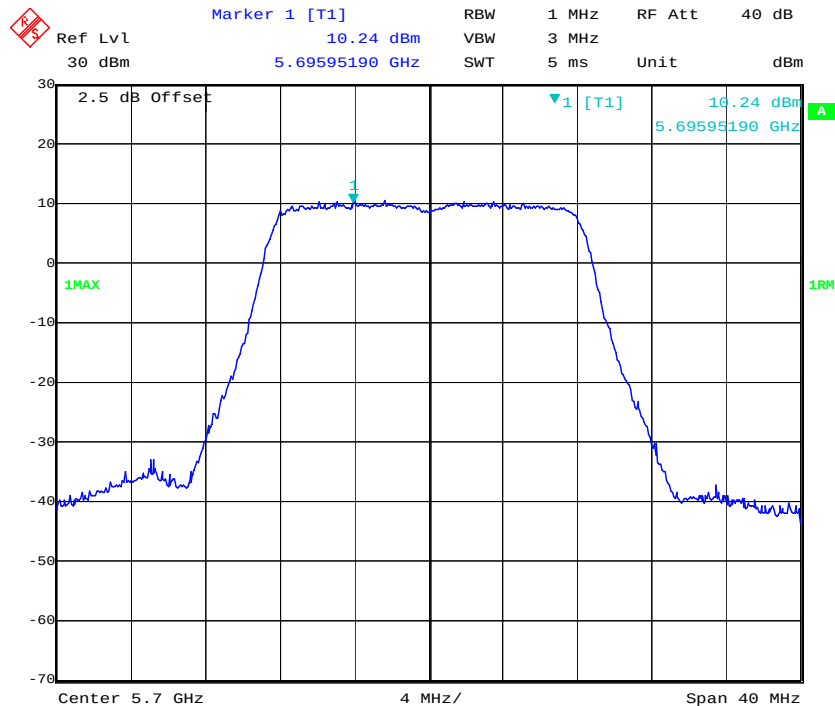
Date: 23.NOV.2016 17:07:20

802.11a Middle Channel – Chain0

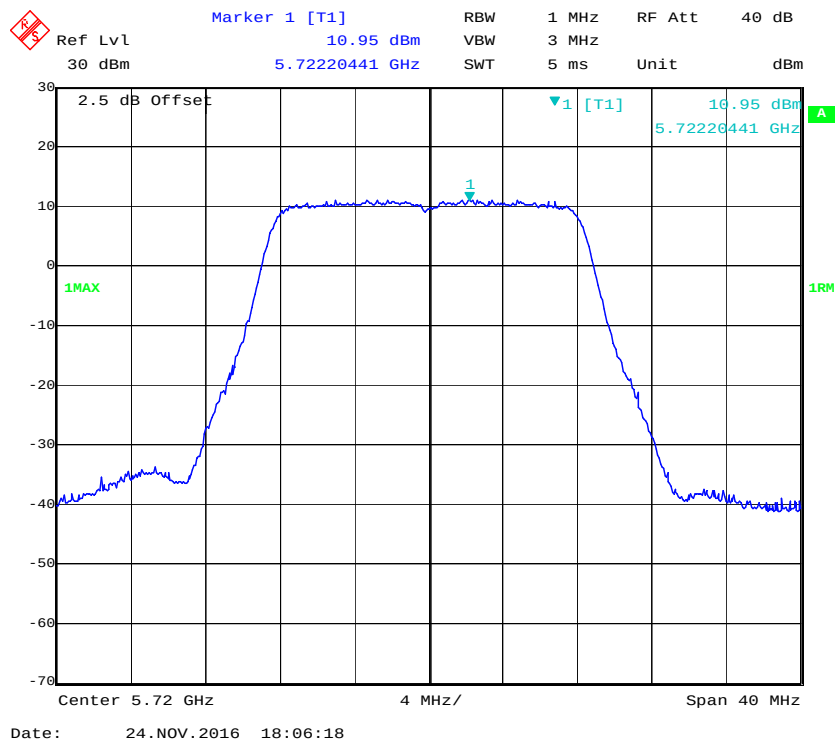


Date: 24.NOV.2016 18:03:18

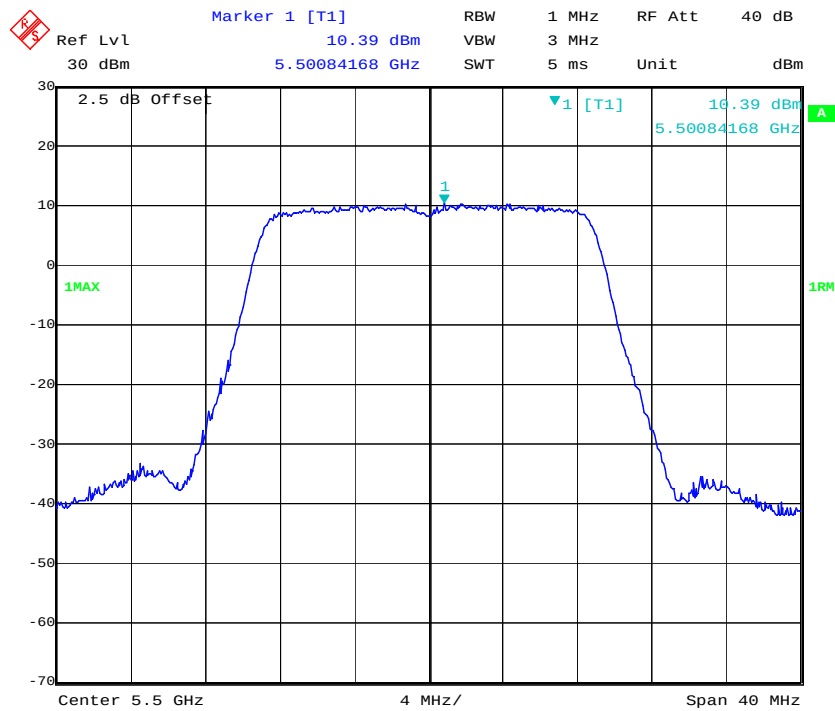
802.11a High Channel – Chain0



802.11a Cross Channel – Chain0

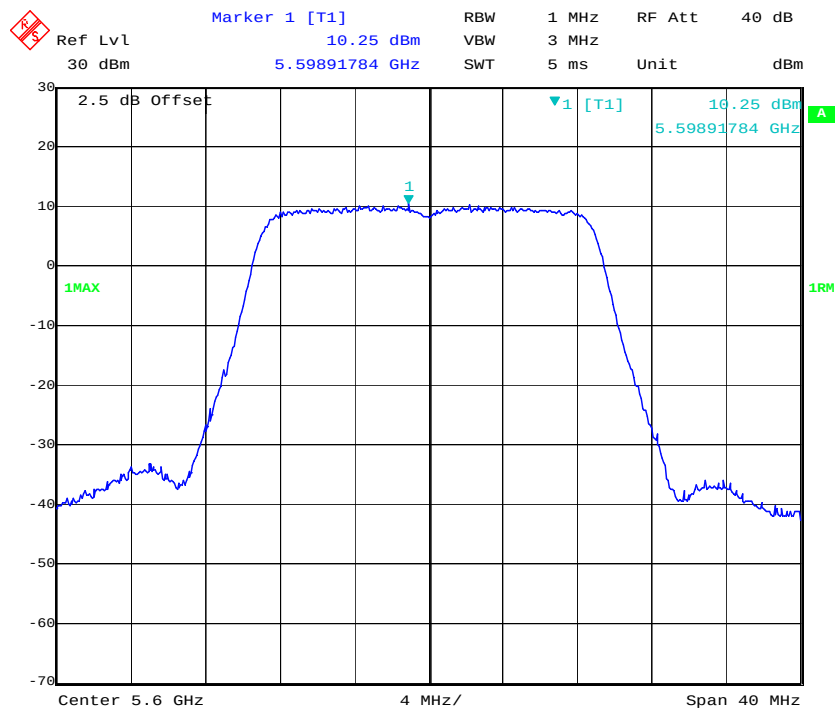


802.11n ht20 Low Channel – Chain0



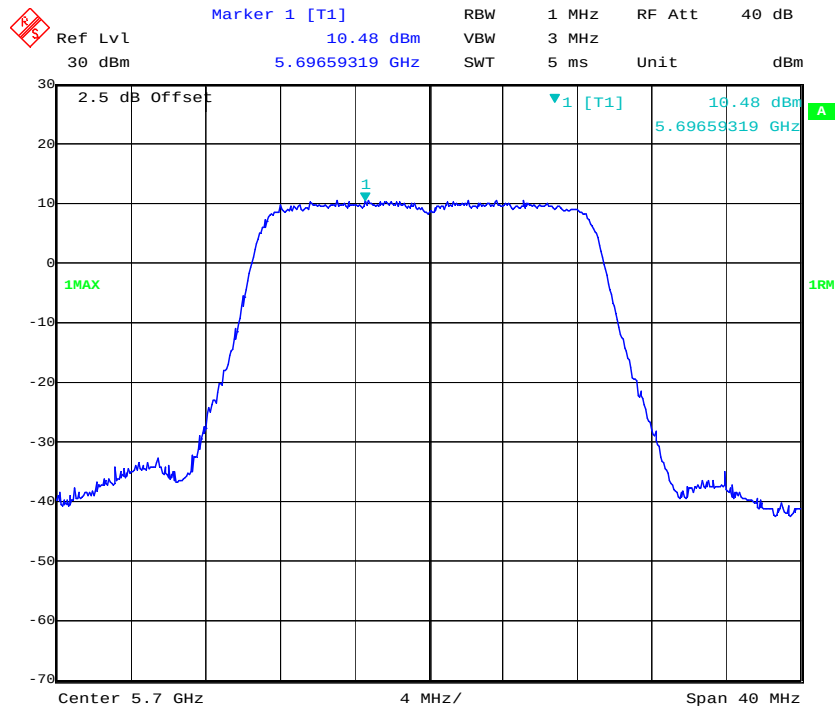
Date: 23.NOV.2016 17:31:51

802.11n ht20 Middle Channel – Chain0

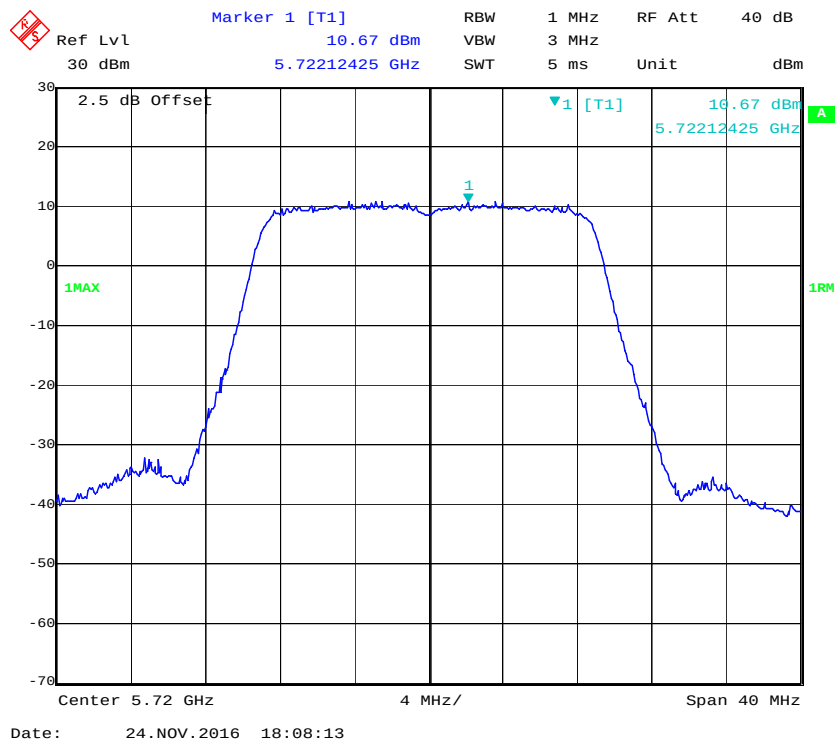


Date: 24.NOV.2016 18:08:42

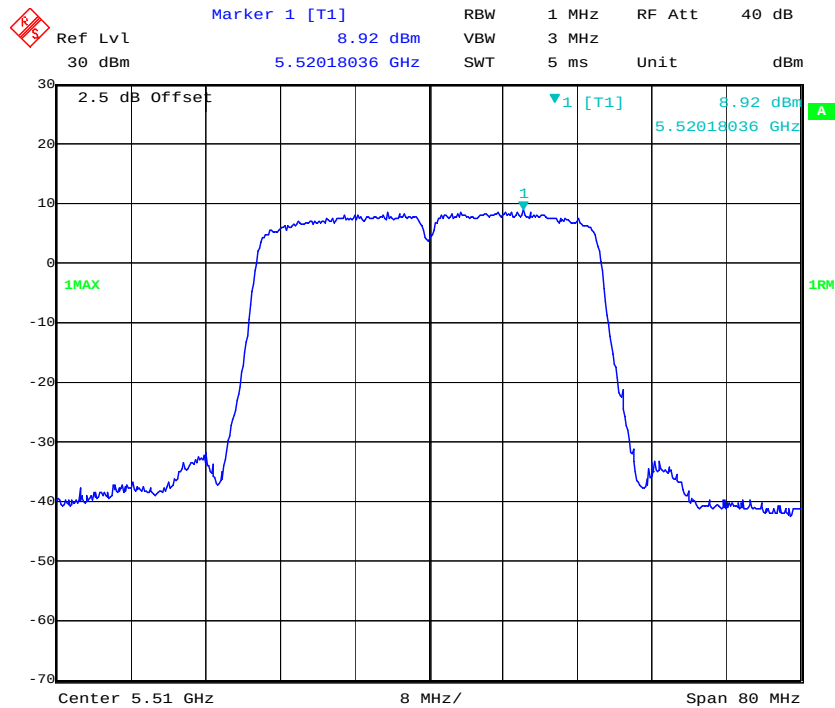
802.11n ht20 High Channel – Chain0



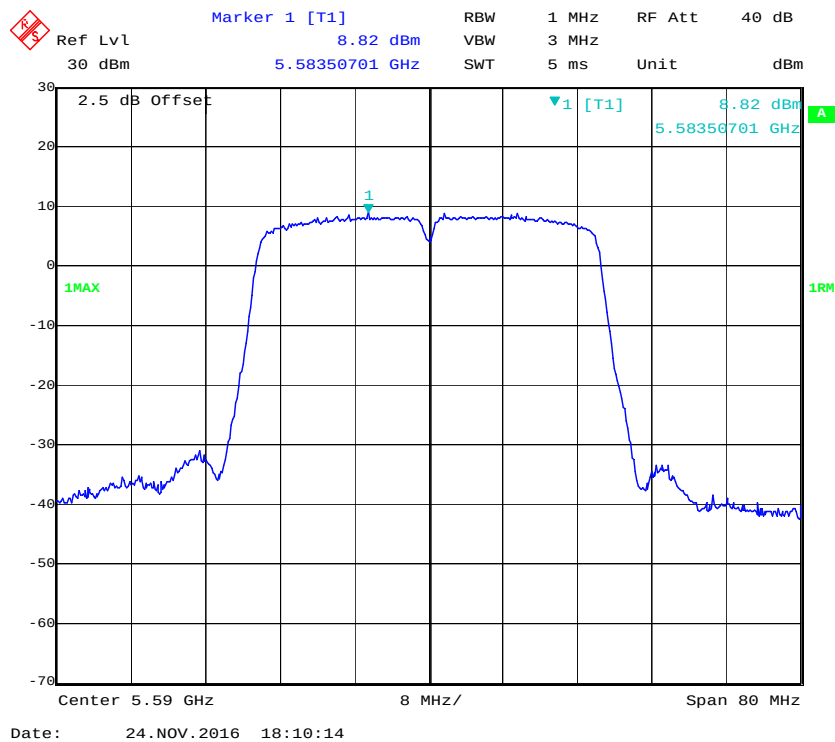
802.11n ht20 Cross Channel – Chain0



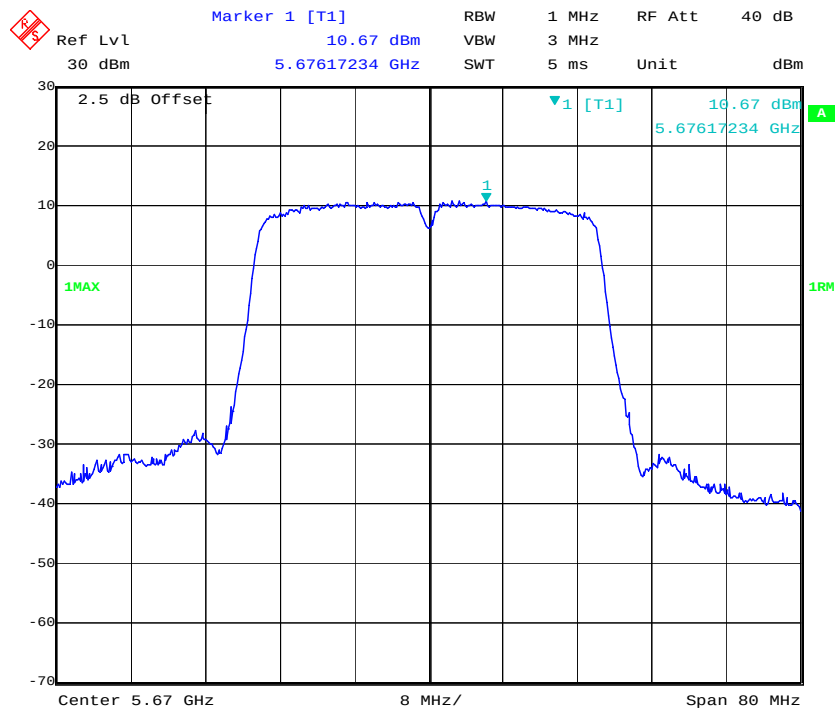
802.11n ht40 Low Channel – Chain0



802.11n ht40 Middle Channel – Chain0

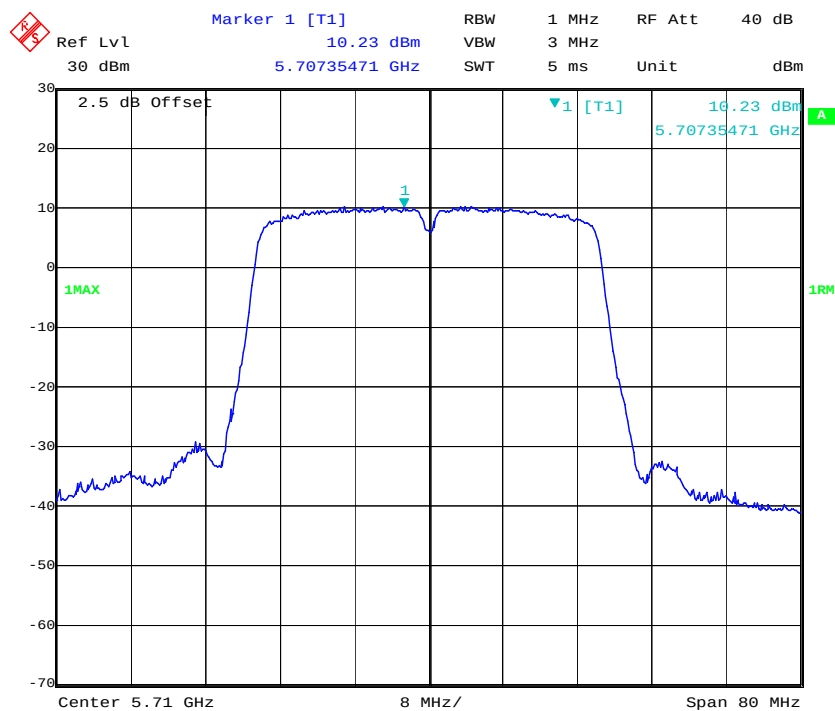


802.11n ht40 High Channel – Chain0



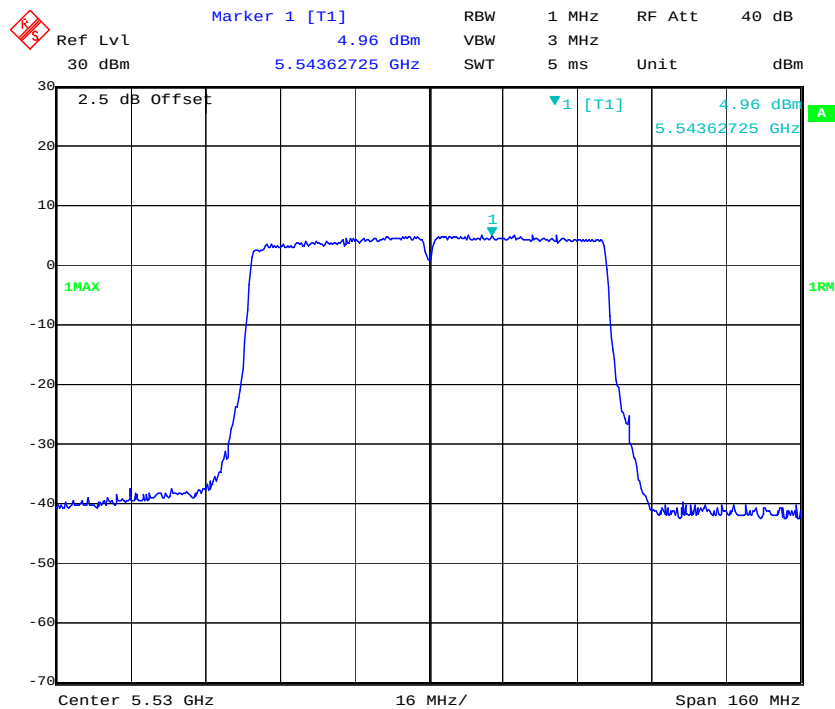
Date: 23.NOV.2016 18:16:30

802.11n ht40 Cross Channel – Chain0



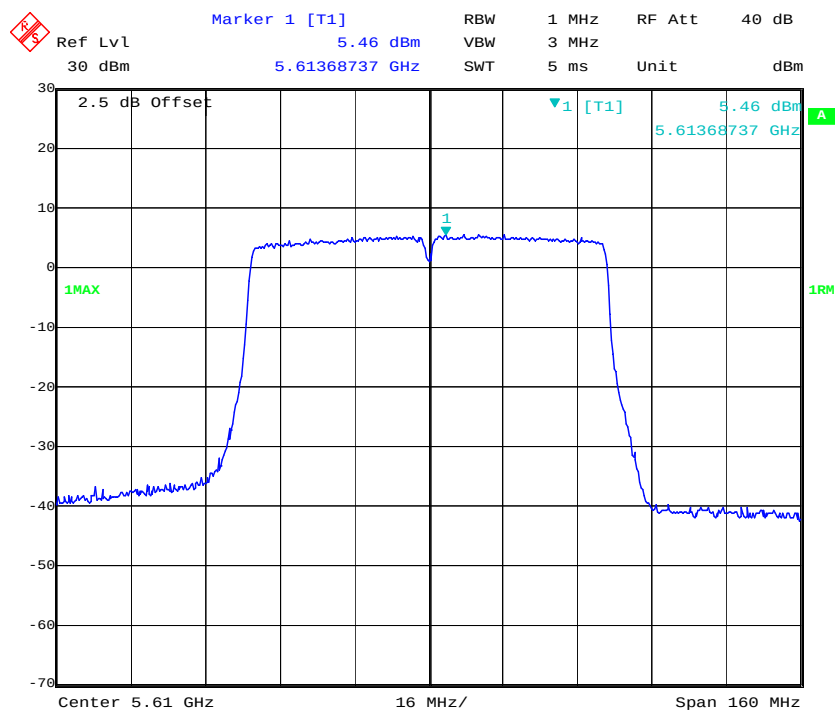
Date: 30.NOV.2016 10:17:39

802.11 ac80 Low Channel – Chain0



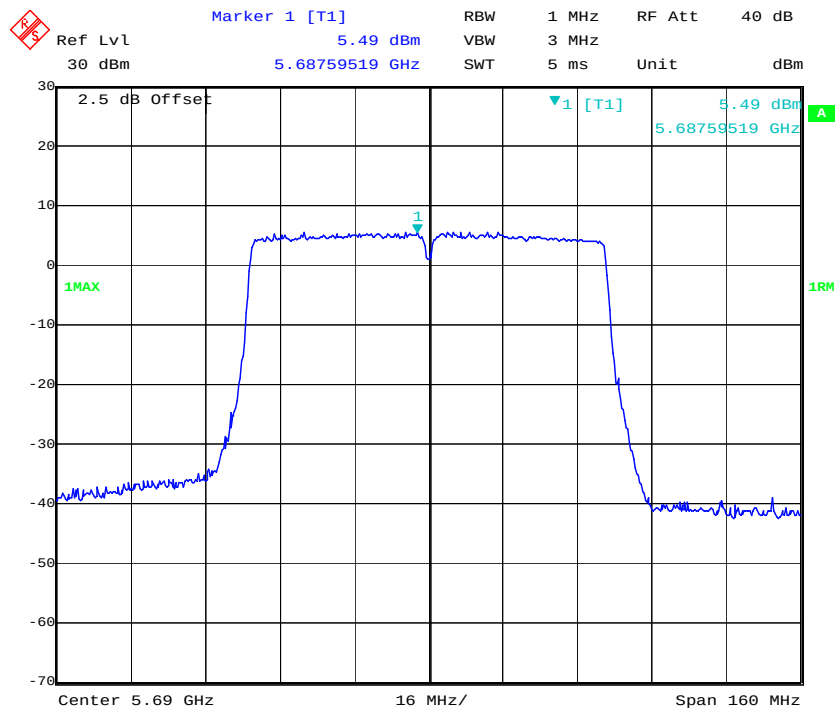
Date: 23.NOV.2016 18:46:51

802.11 ac80 High Channel – Chain0

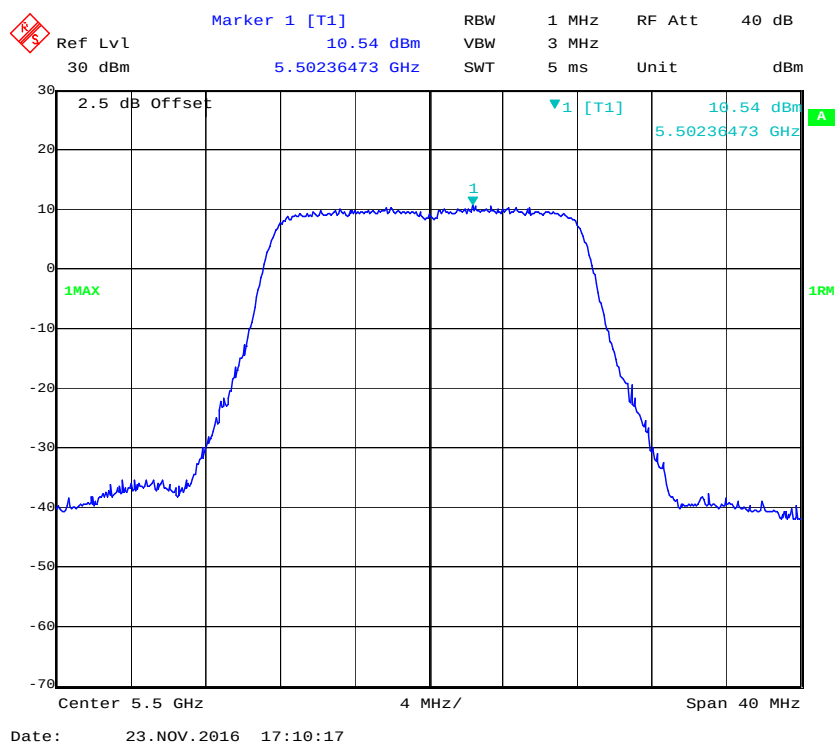


Date: 24.NOV.2016 18:12:20

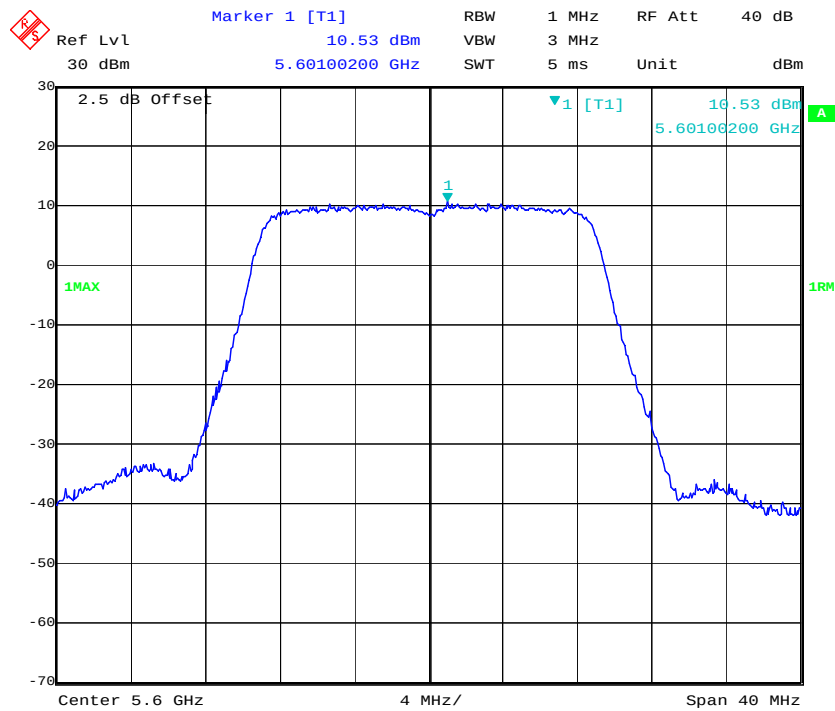
802.11 ac80 Cross Channel – Chain0



802.11a Low Channel – Chain1

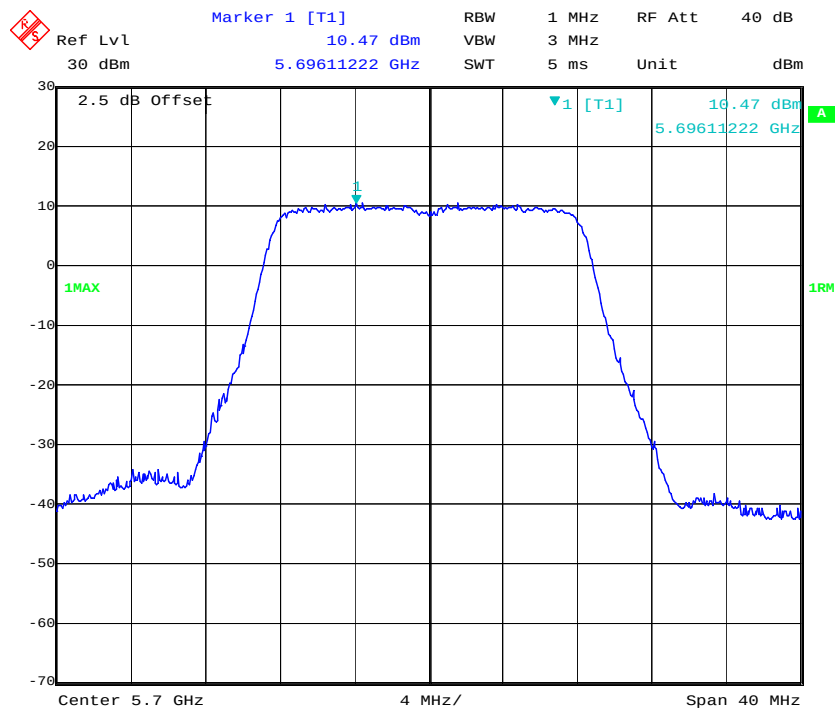


802.11a Middle Channel – Chain 1



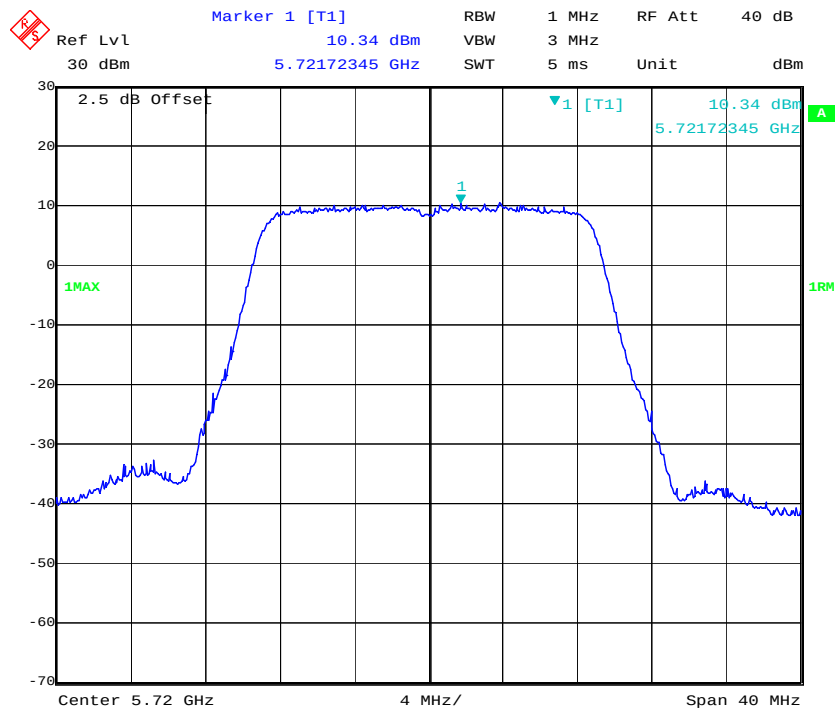
Date: 24.NOV.2016 20:39:33

802.11a High Channel – Chain1

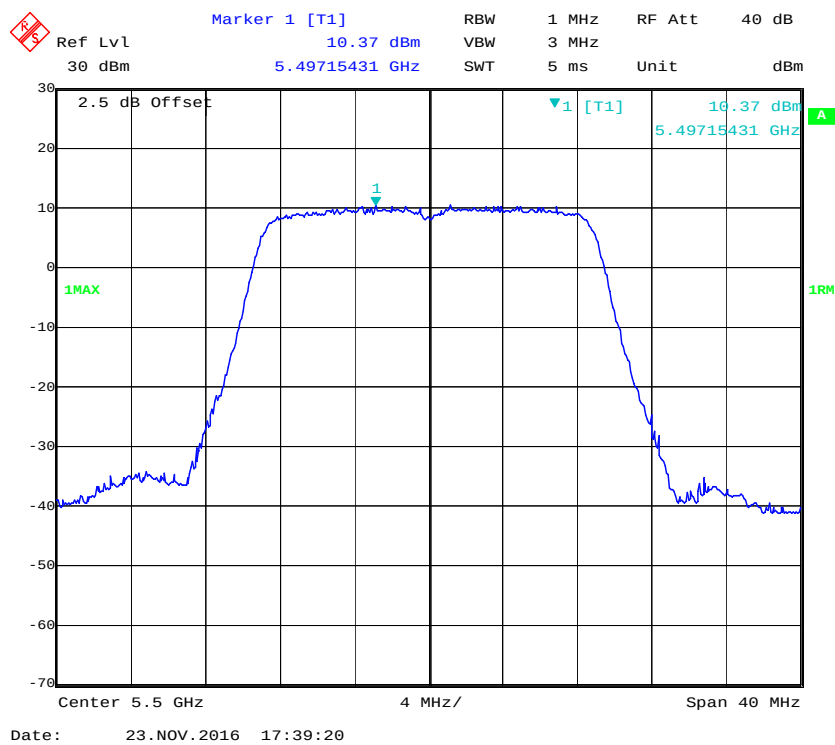


Date: 23.NOV.2016 17:26:34

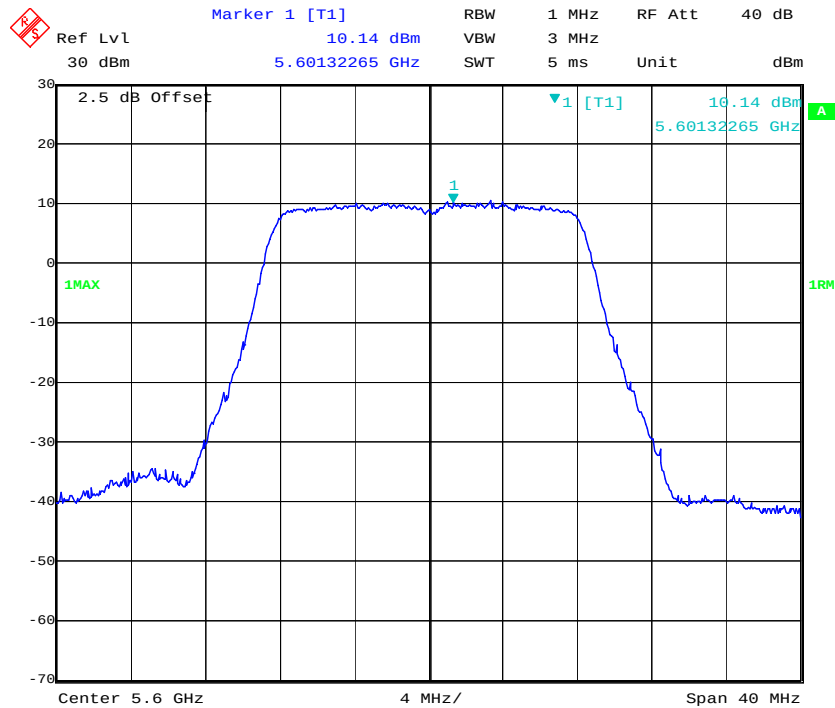
802.11a Cross Channel – Chain1



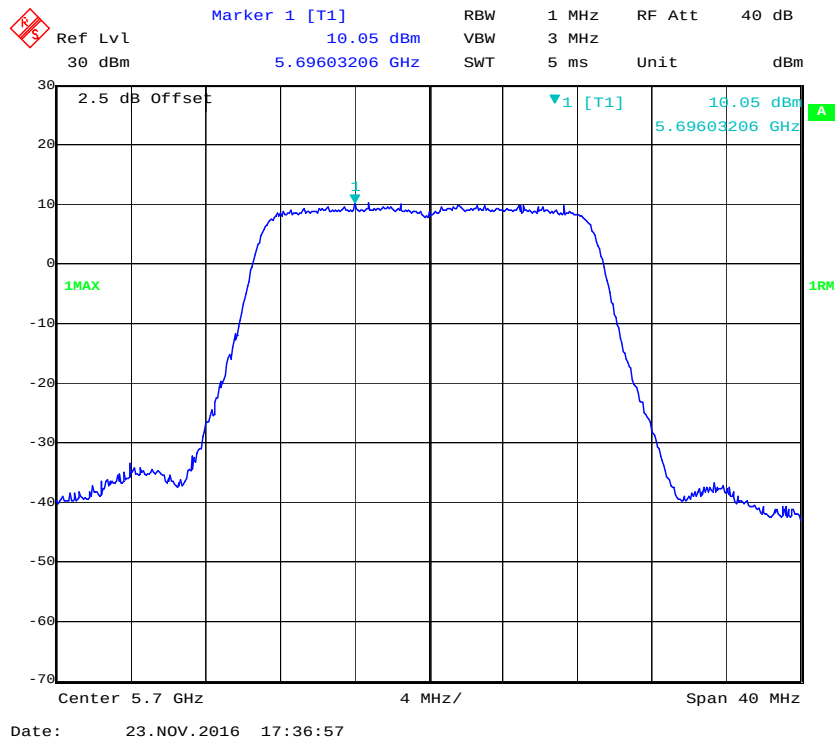
802.11n ht20 Low Channel – Chain1



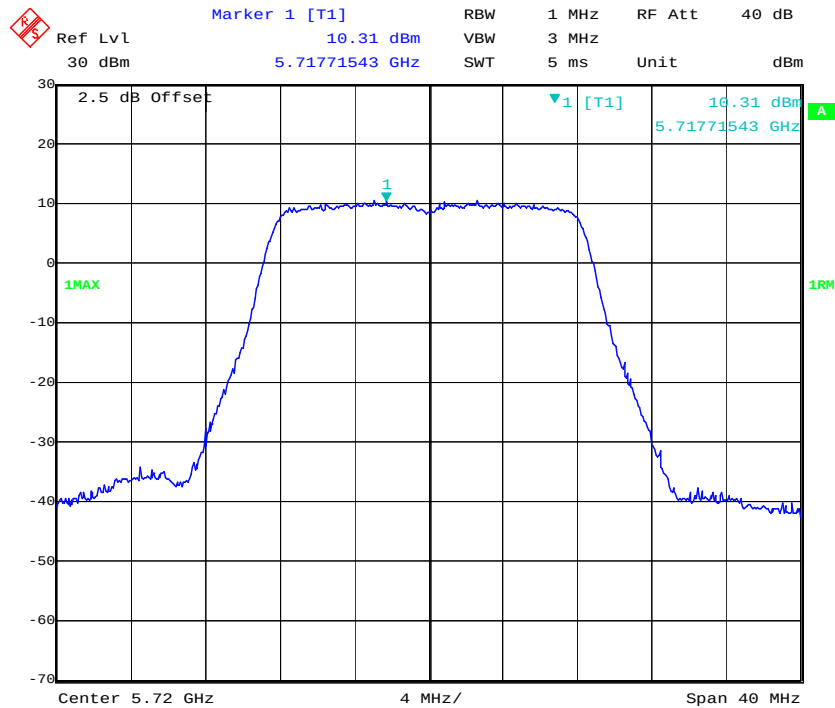
802.11n ht20 Middle Channel – Chain1



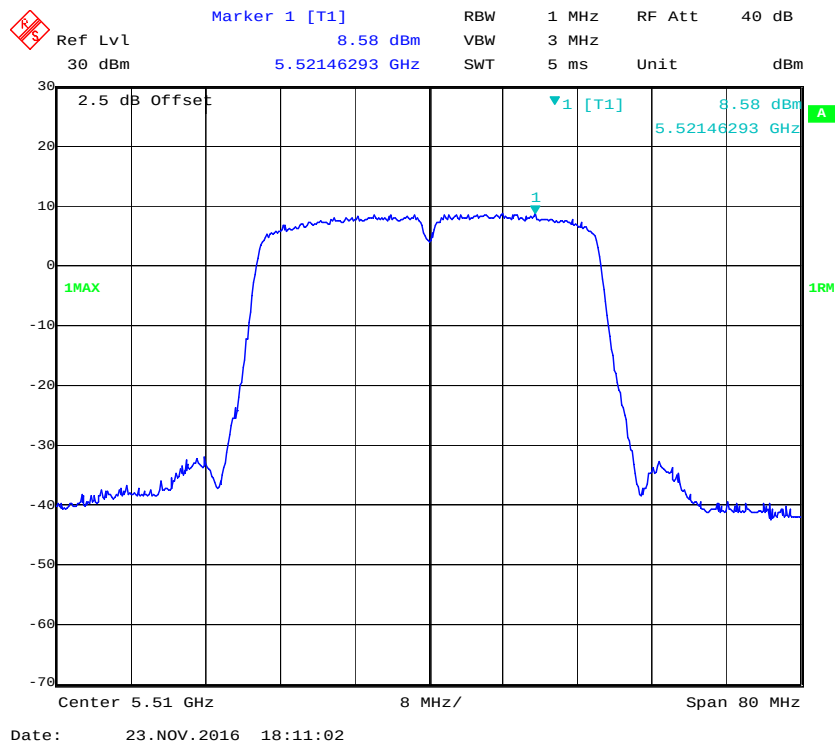
802.11n ht20 High Channel – Chain1



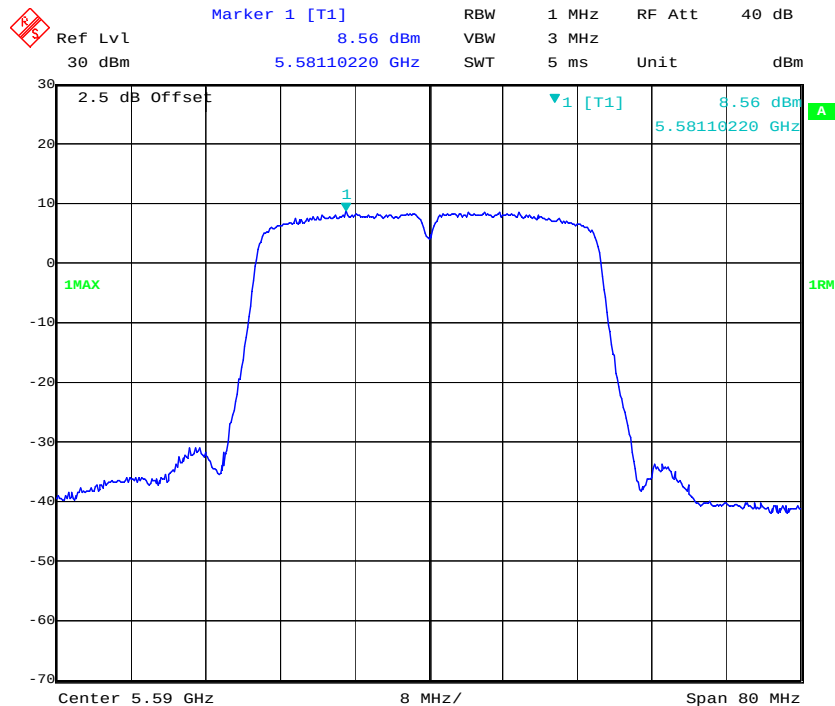
802.11n ht20 Cross Channel – Chain1



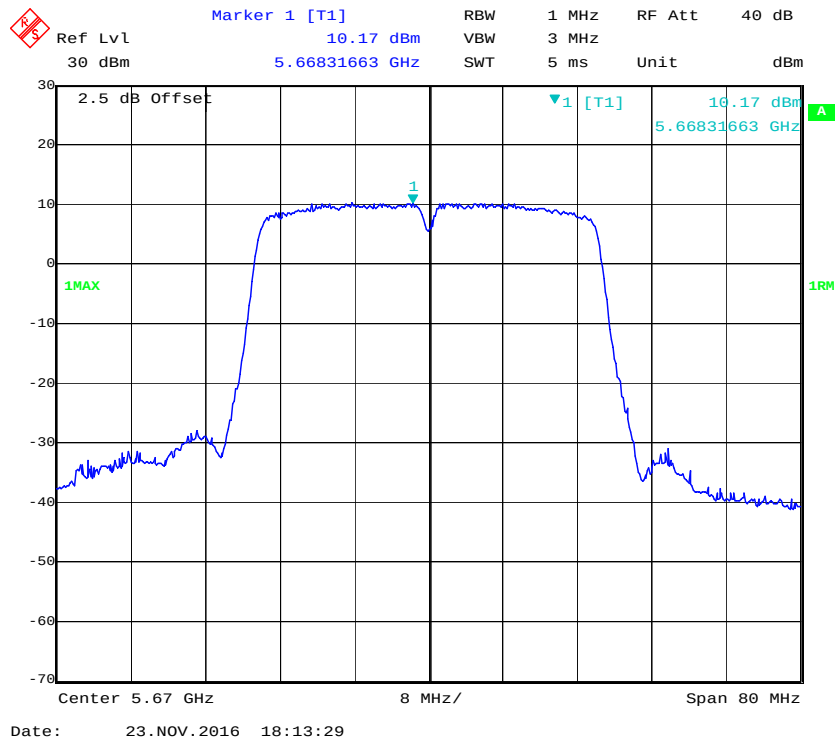
802.11n ht40 Low Channel – Chain1



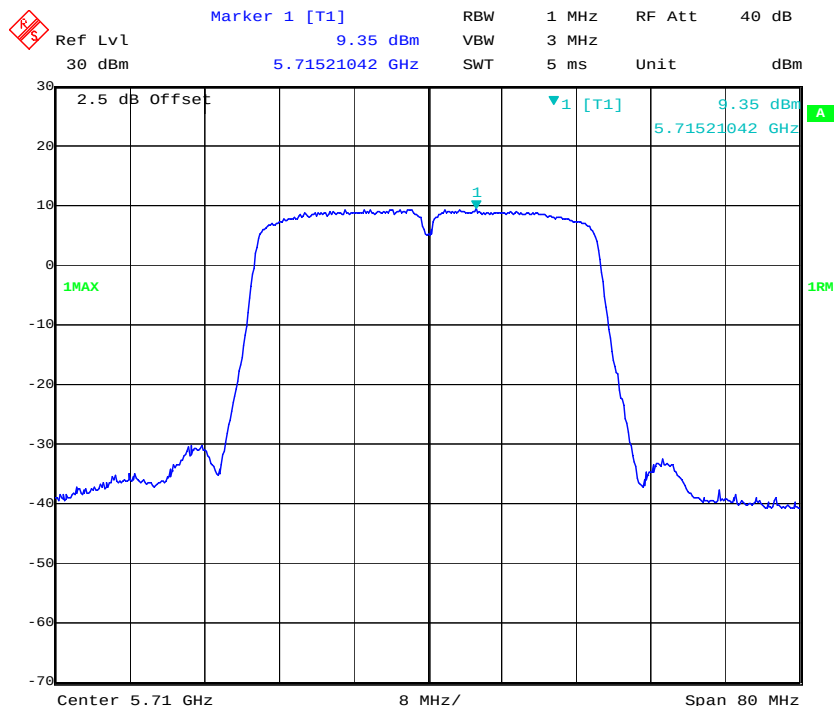
802.11n ht40 Middle Channel – Chain1



802.11n ht40 High Channel – Chain1

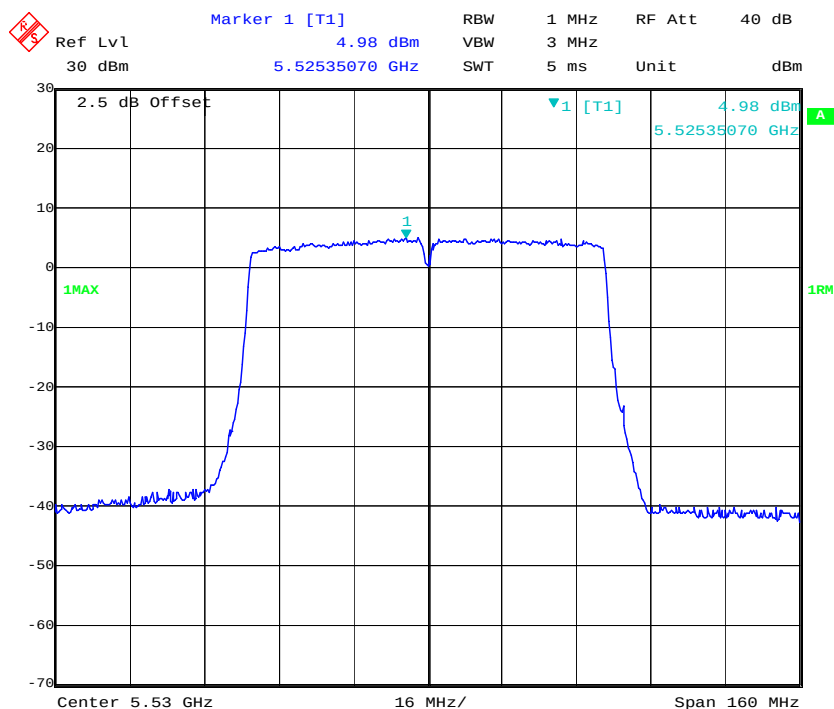


802.11n ht40 Cross Channel – Chain1



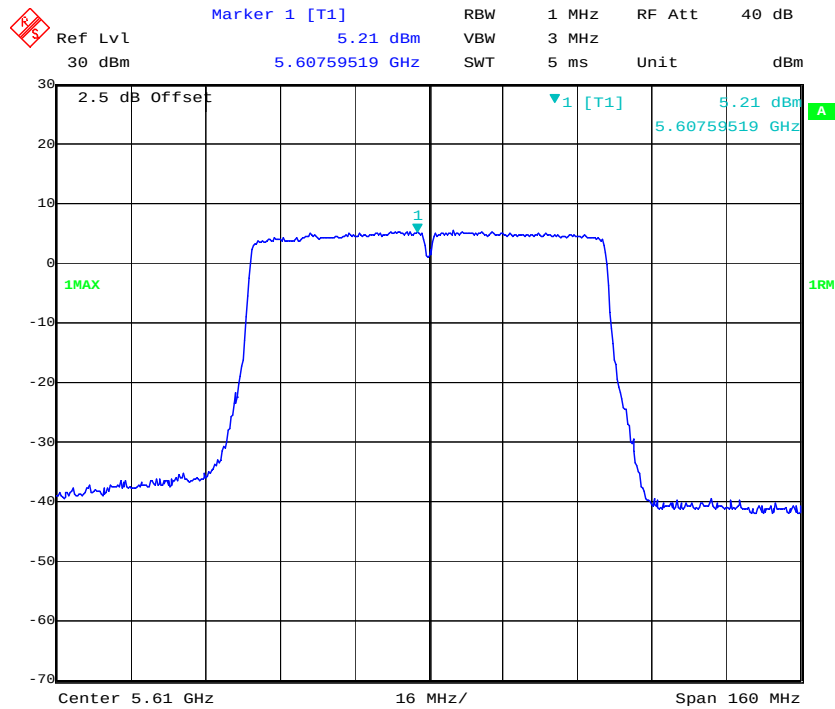
Date: 30.NOV.2016 10:18:42

802.11 ac80 Low Channel – Chain1

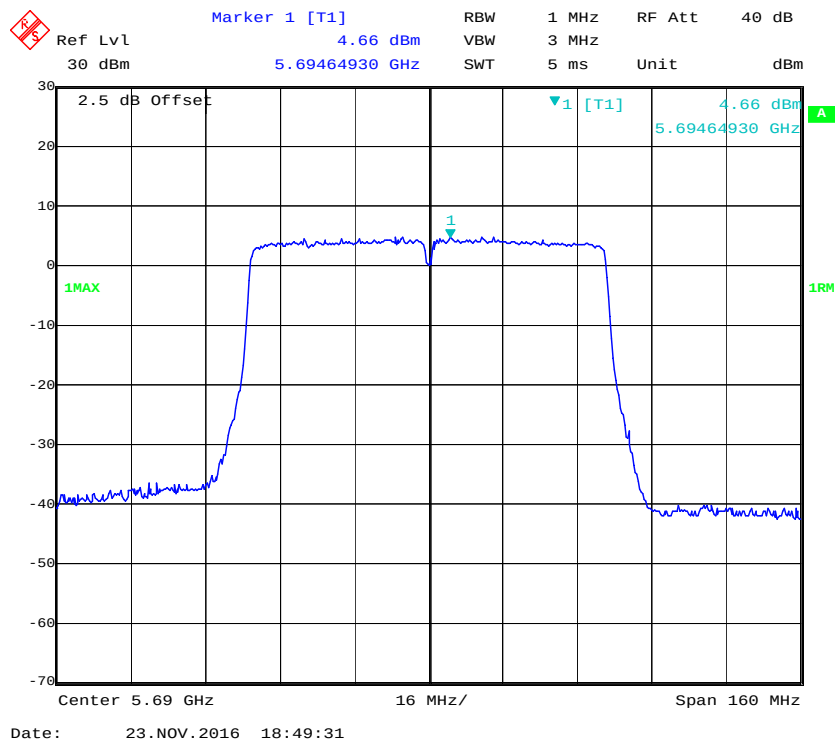


Date: 23.NOV.2016 18:50:50

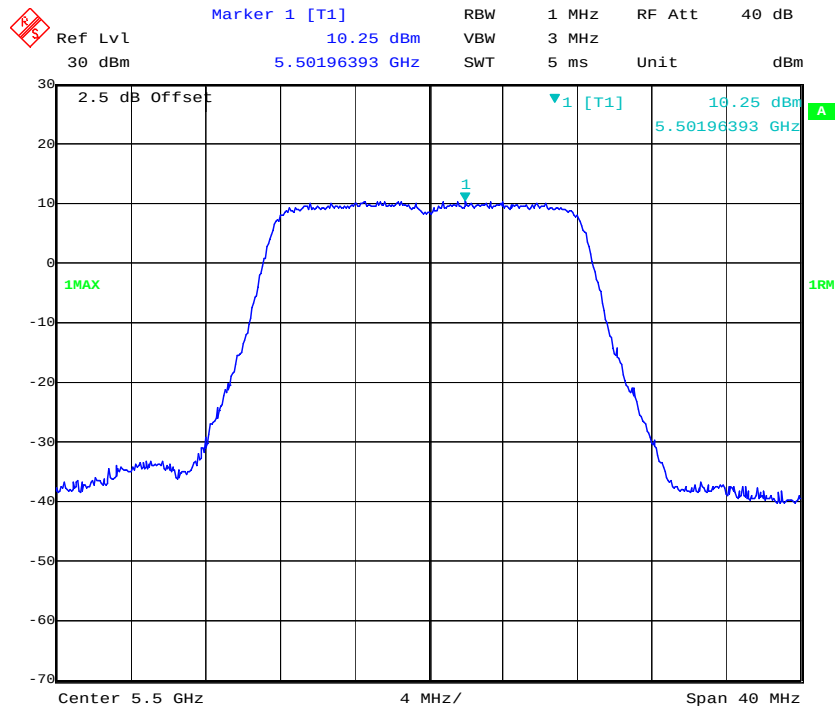
802.11 ac80 High Channel – Chain1



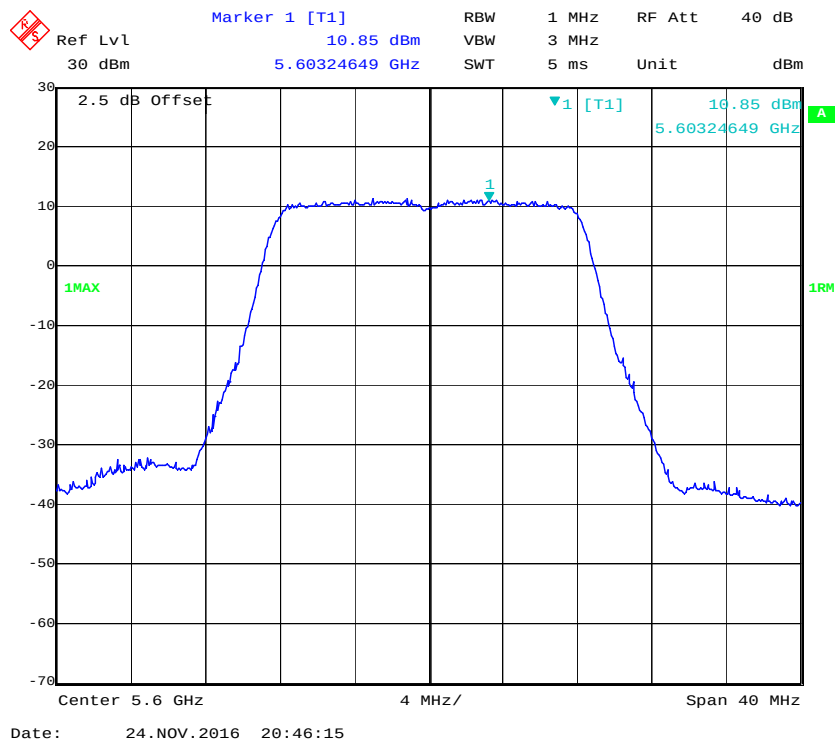
802.11 ac80 Cross Channel – Chain1



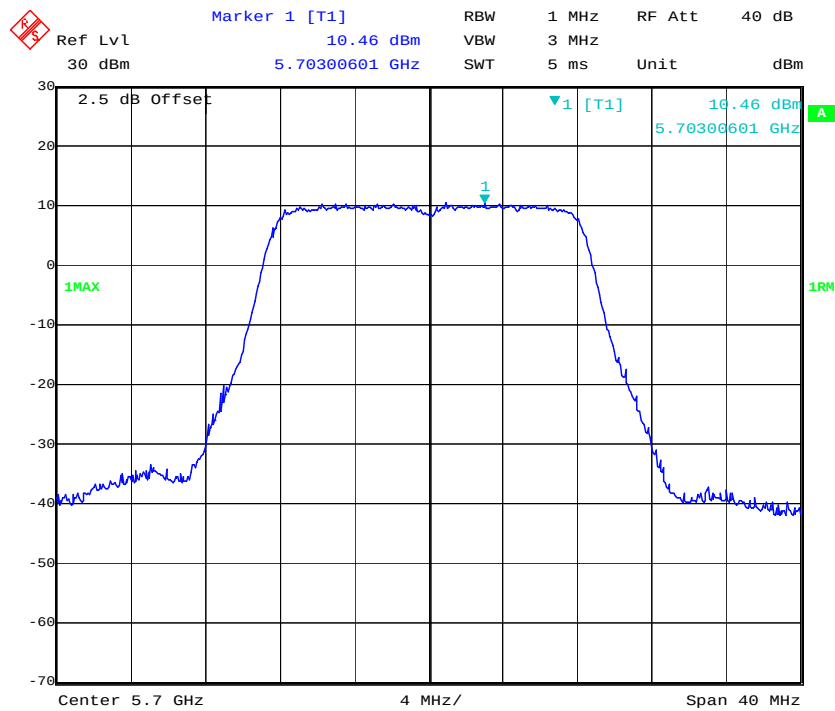
802.11a Low Channel – Chain2



802.11a Middle Channel – Chain2

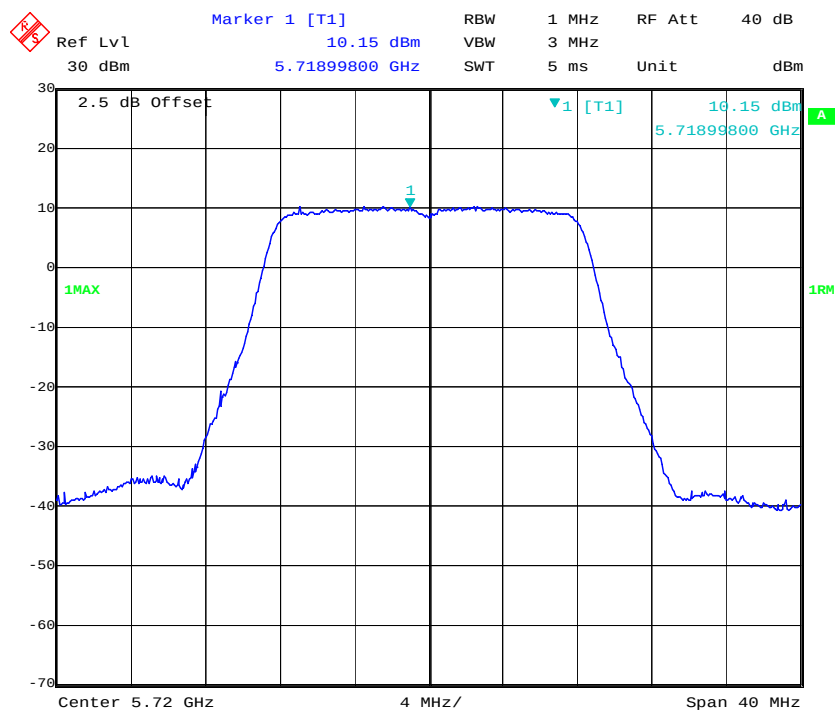


802.11a High Channel – Chain2



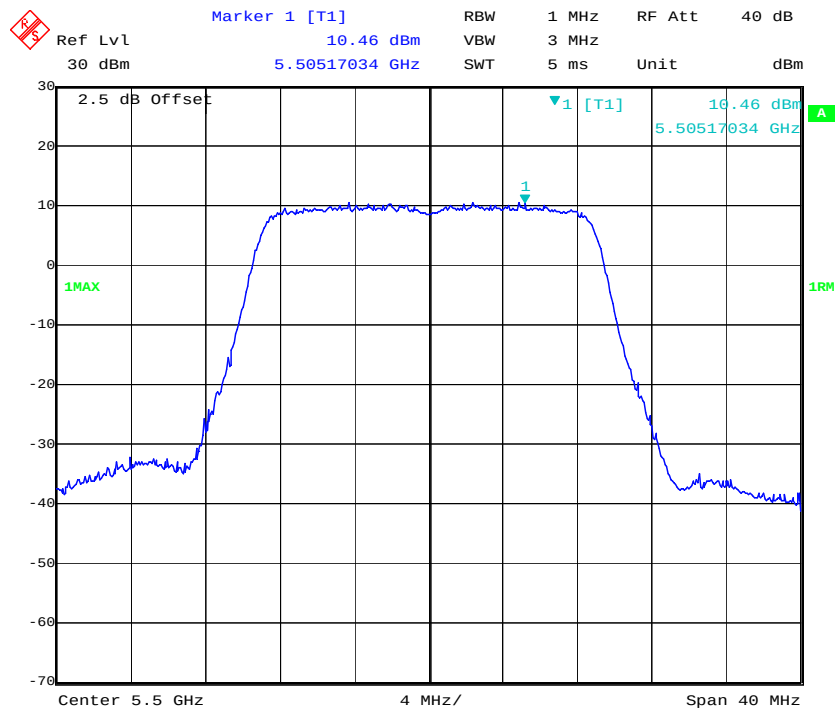
Date: 23.NOV.2016 17:15:14

802.11a Cross Channel – Chain2

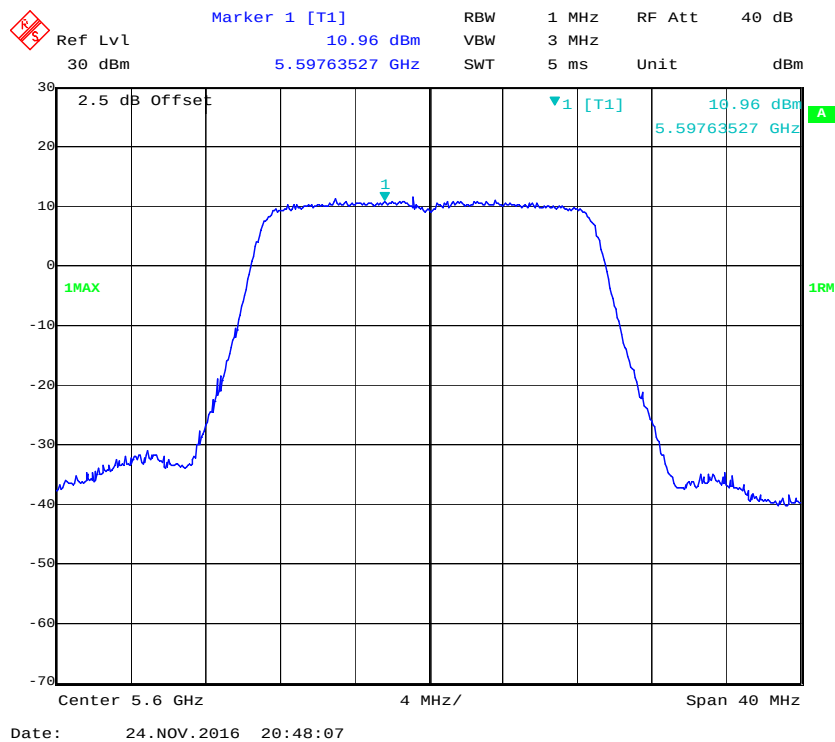


Date: 30.NOV.2016 10:22:23

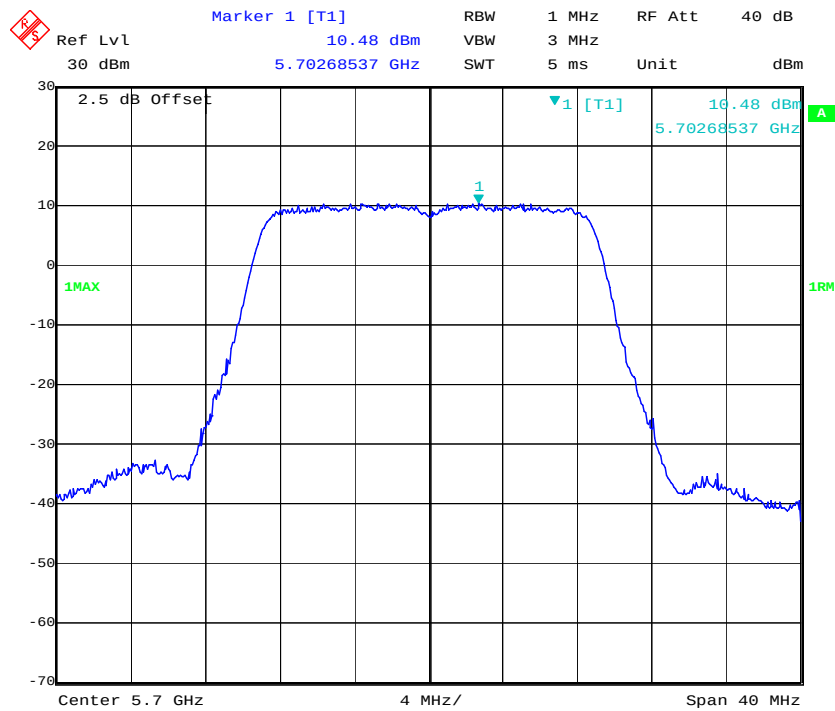
802.11n ht20 Low Channel – Chain2



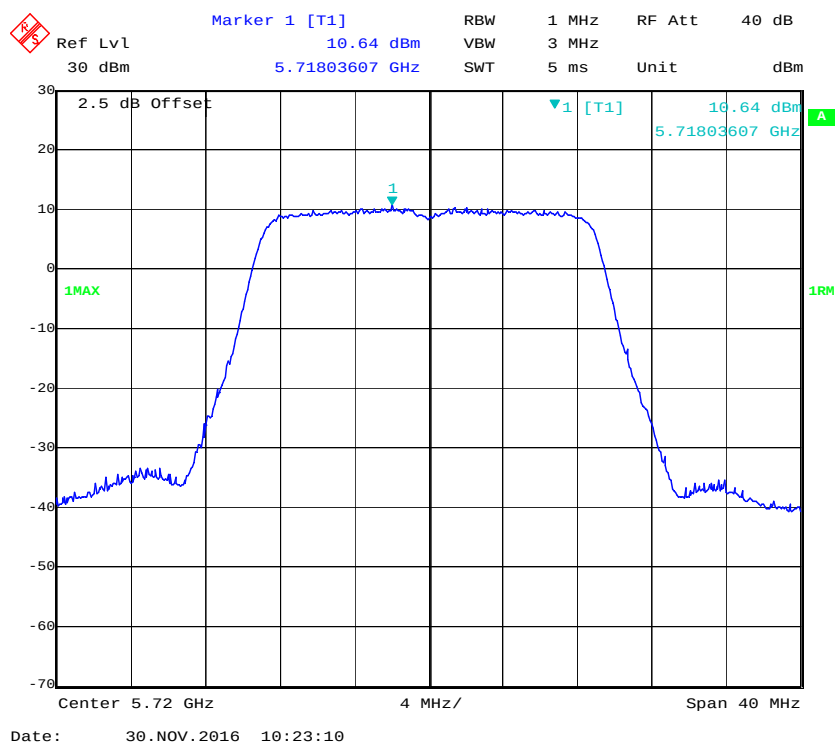
802.11n ht20 Middle Channel – Chain2



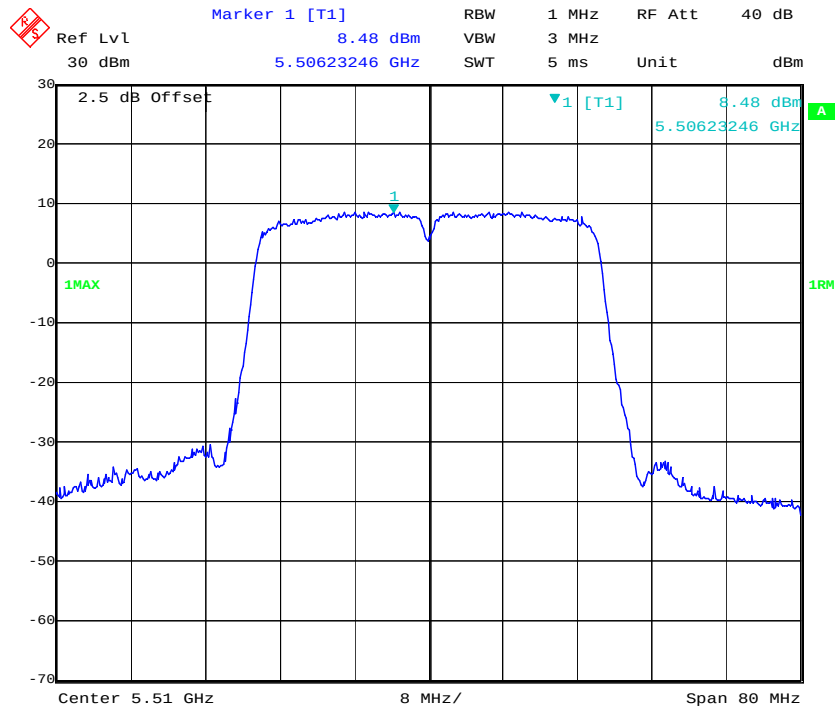
802.11n ht20 High Channel – Chain2



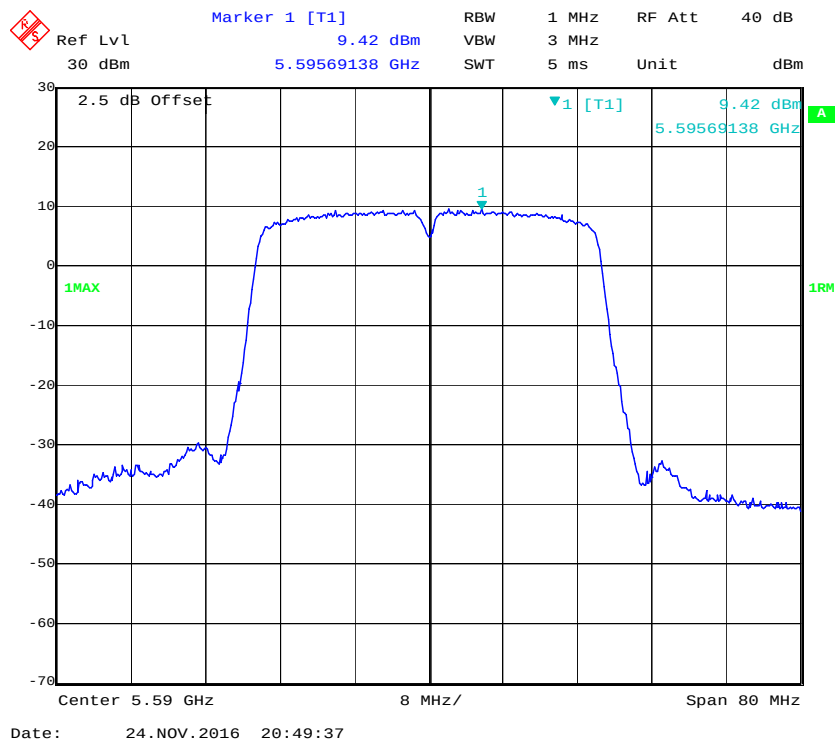
802.11n ht20 Cross Channel – Chain2



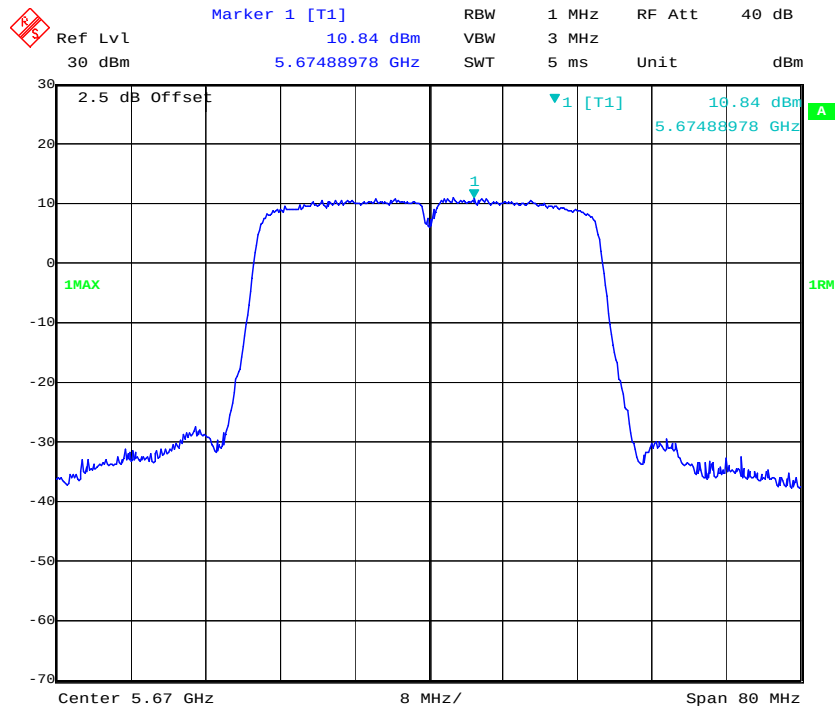
802.11n ht40 Low Channel – Chain2



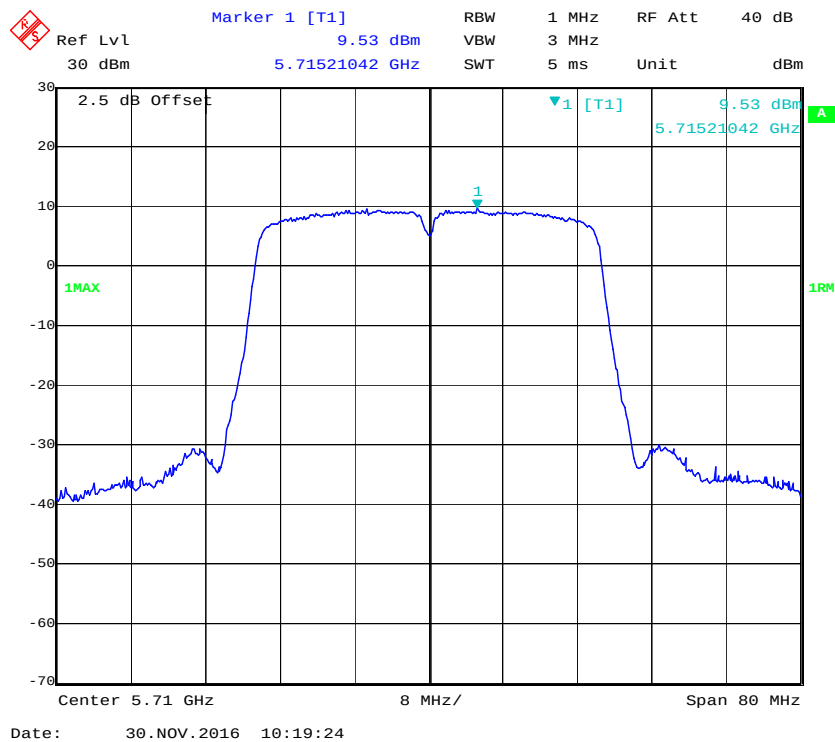
802.11n ht40 Middle Channel – Chain2



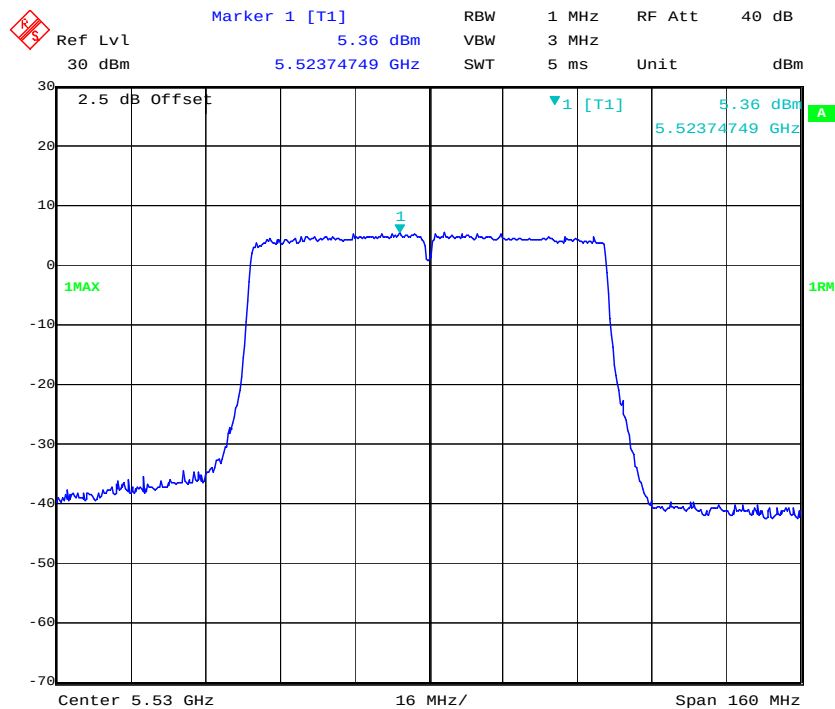
802.11n ht40 High Channel – Chain2



802.11n ht40 Cross Channel – Chain2

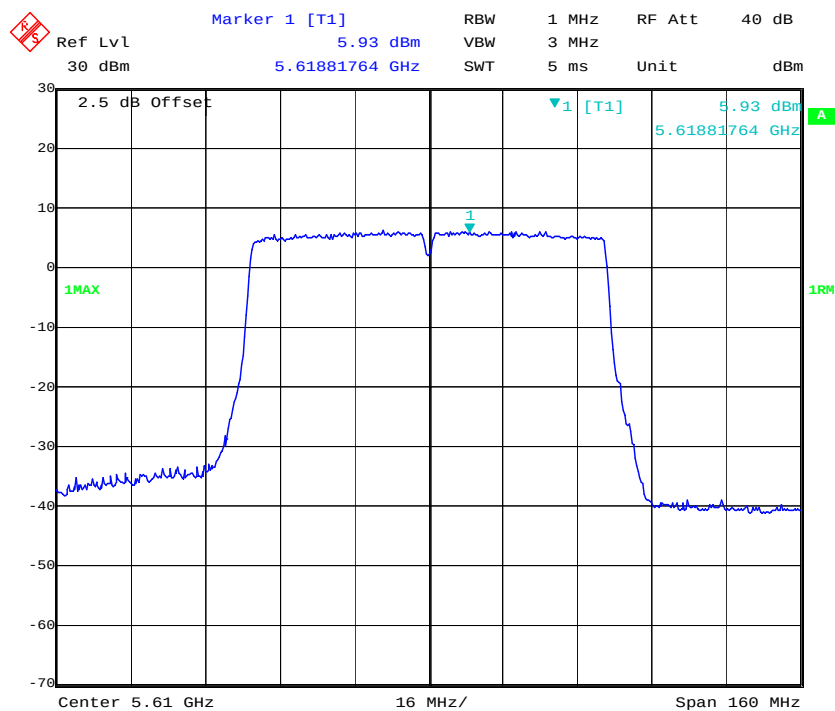


802.11 ac80 Low Channel – Chain2



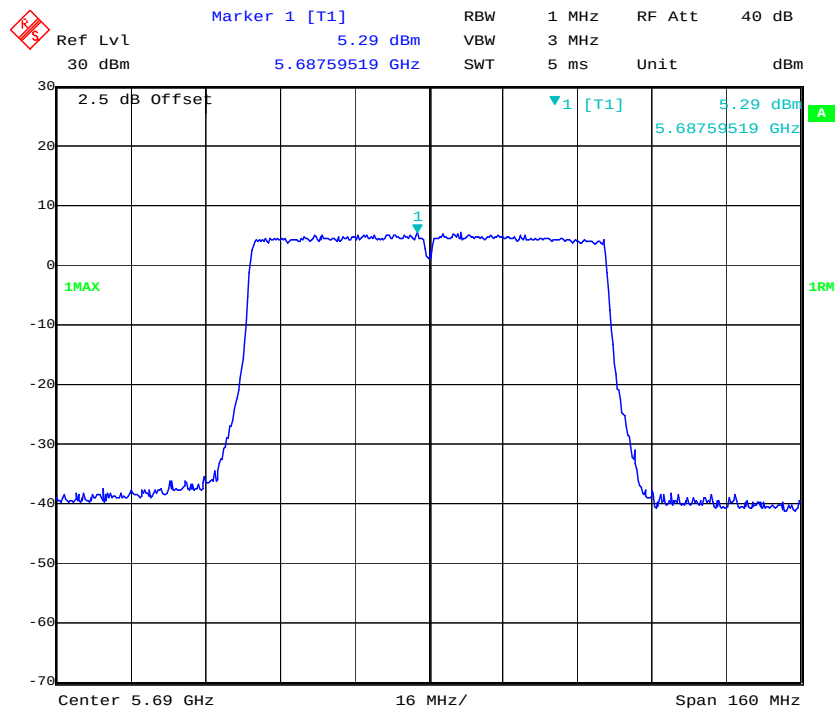
Date: 23.NOV.2016 18:36:06

802.11 ac80 high Channel – Chain2



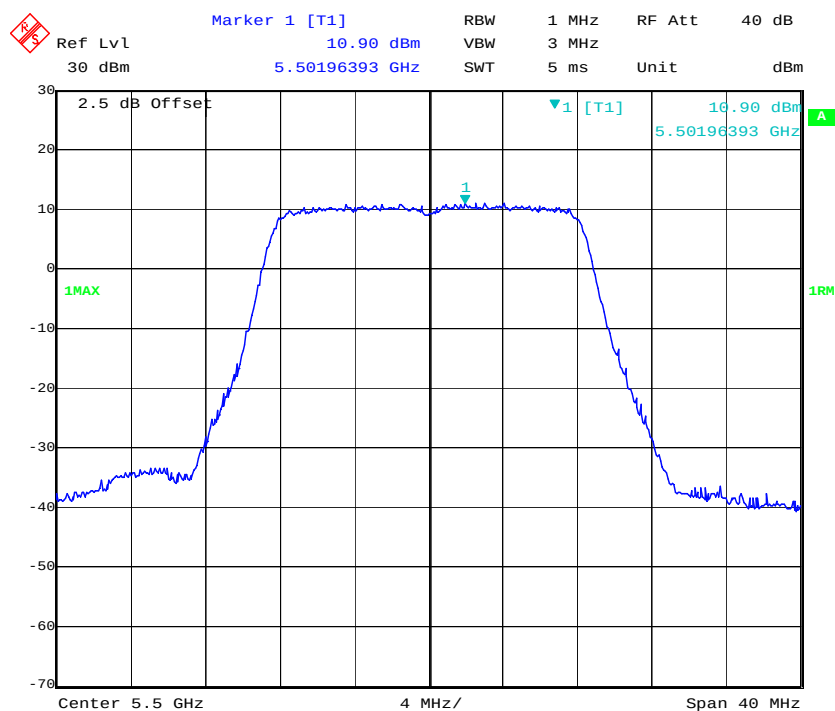
Date: 24.NOV.2016 20:52:07

802.11 ac80 Cross Channel – Chain2



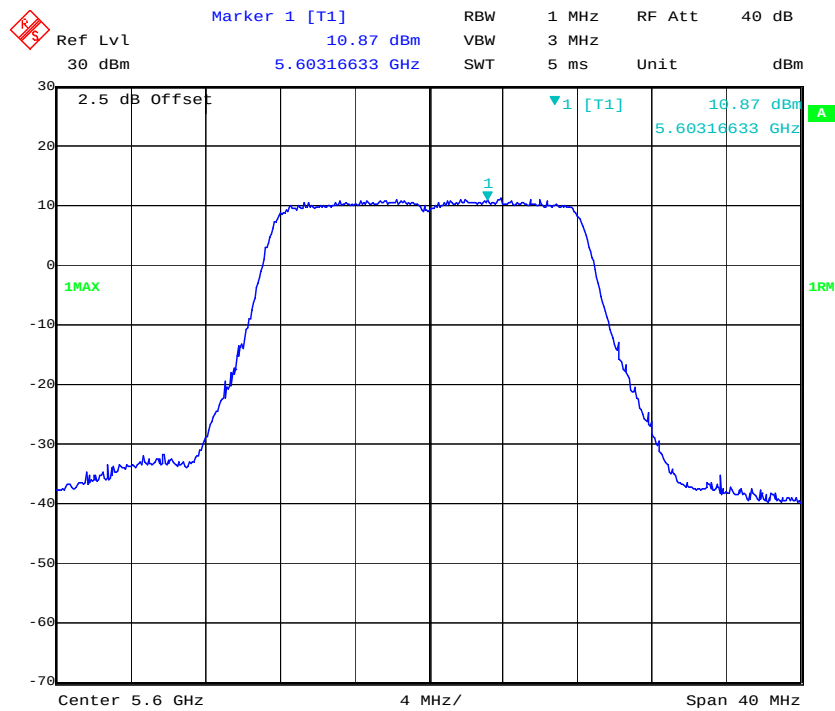
Date: 23.NOV.2016 18:39:20

802.11a Low Channel – Chain3

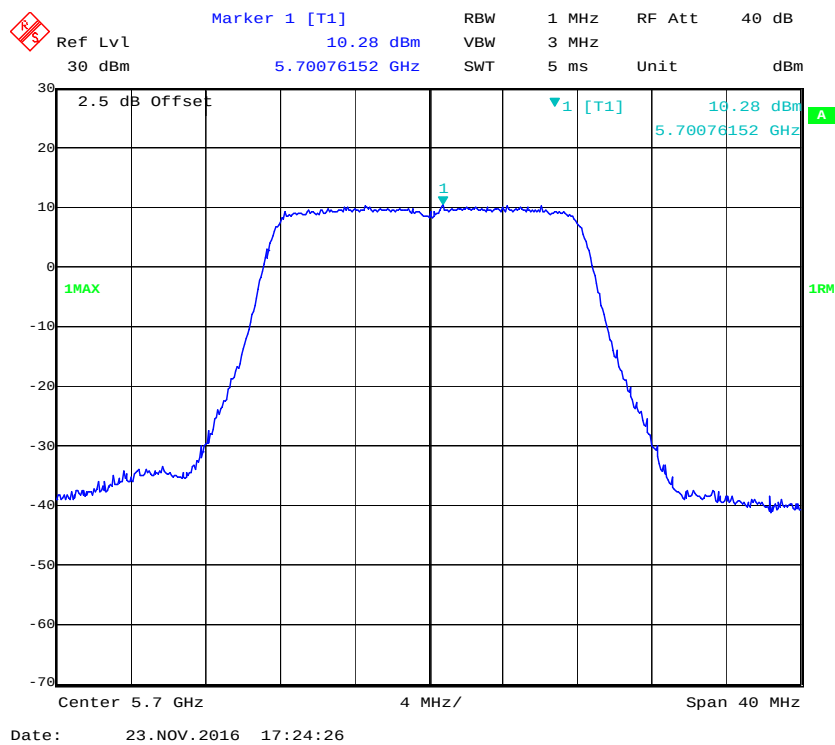


Date: 23.NOV.2016 17:22:05

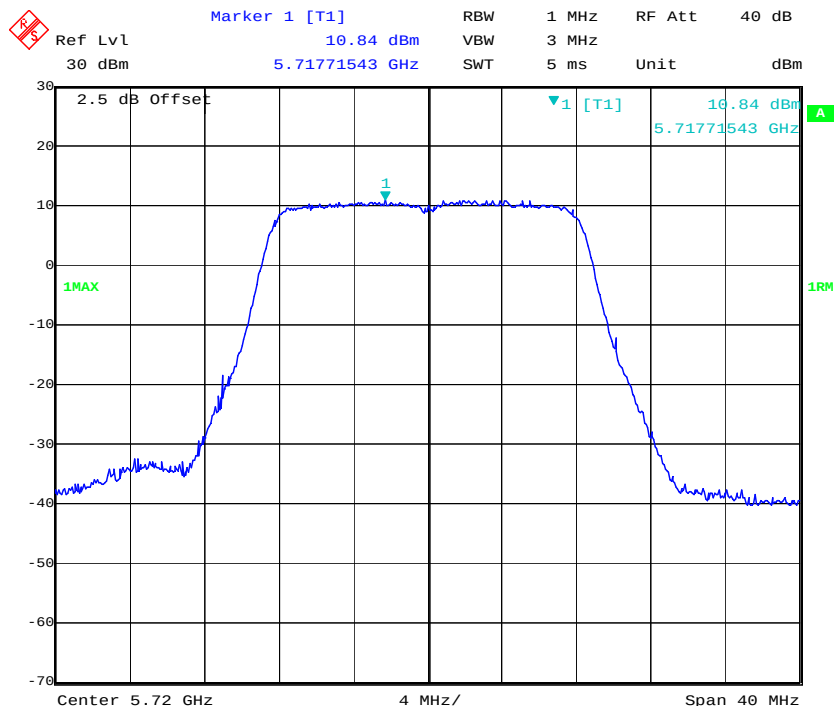
802.11a Middle Channel – Chain3



802.11a High Channel – Chain3

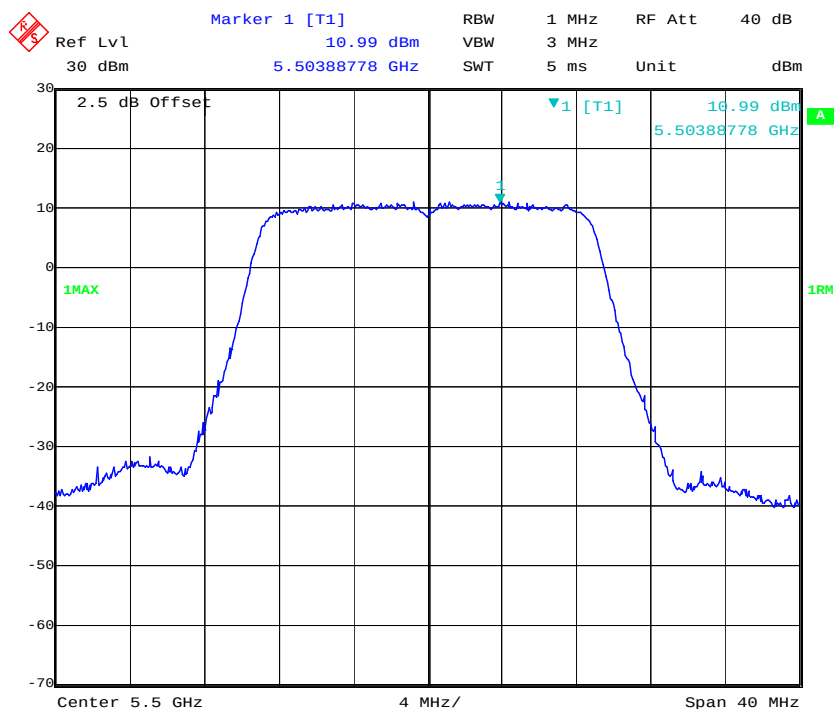


802.11a Cross Channel – Chain3



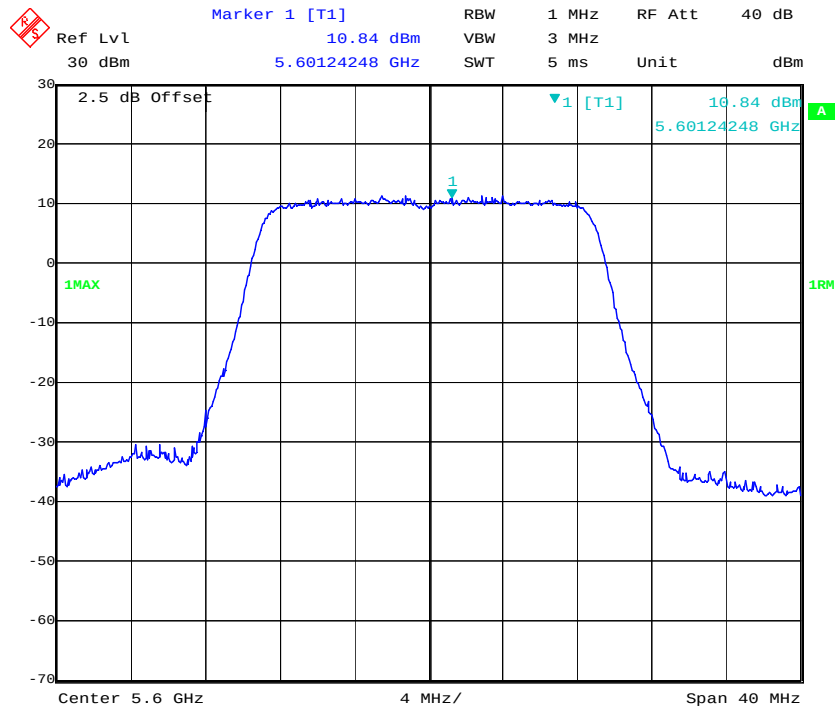
Date: 24.NOV.2016 20:55:58

802.11n ht20 Low Channel – Chain3



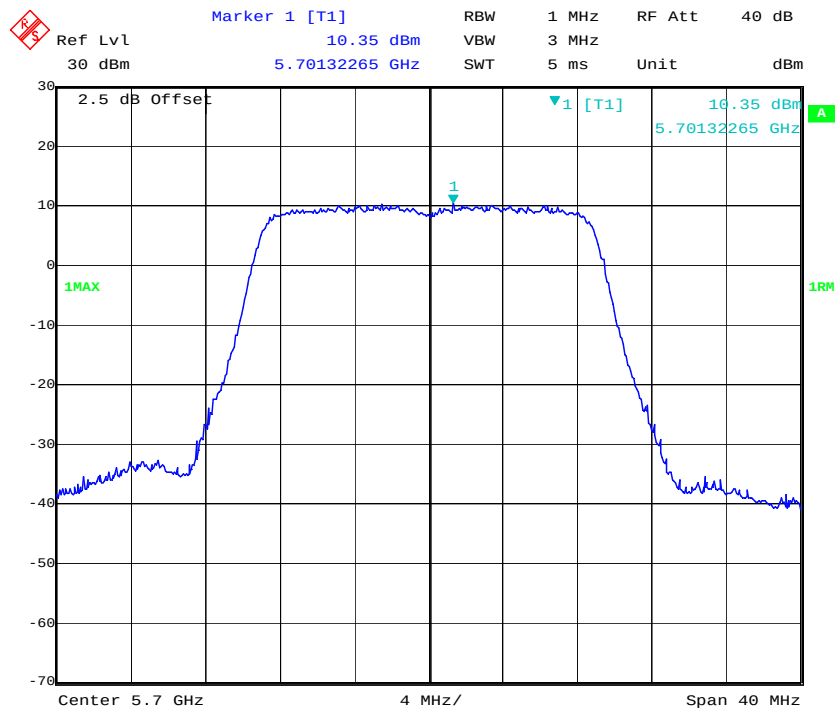
Date: 23.NOV.2016 17:49:22

802.11n ht20 Middle Channel – Chain3



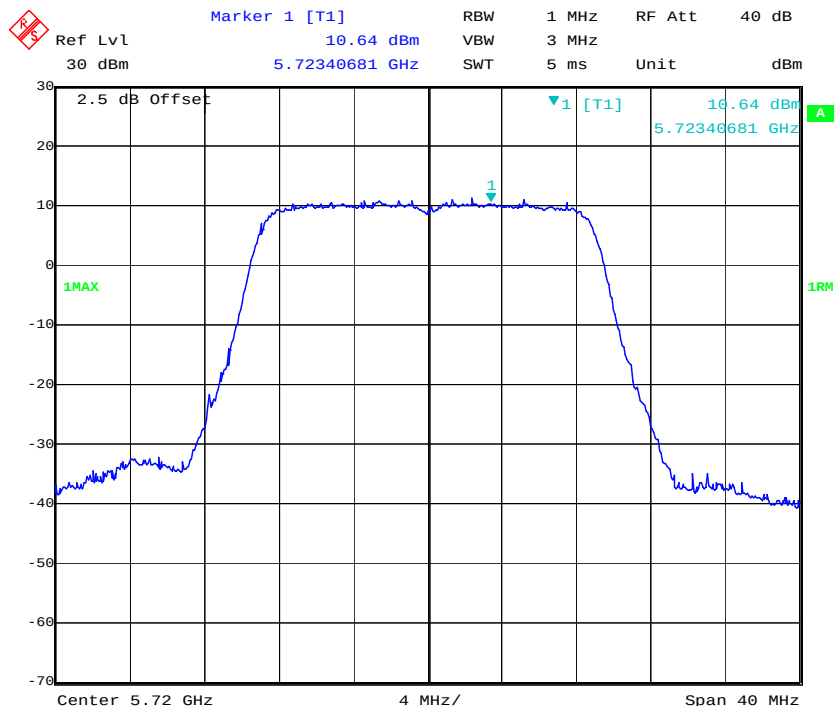
Date: 24.NOV.2016 20:57:12

802.11n ht20 High Channel – Chain3

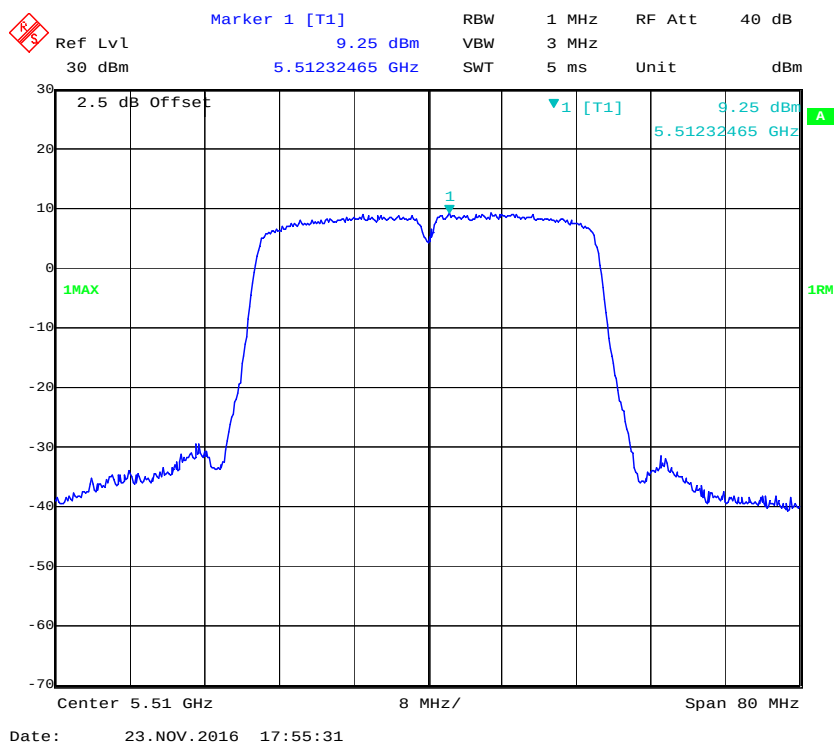


Date: 23.NOV.2016 17:46:52

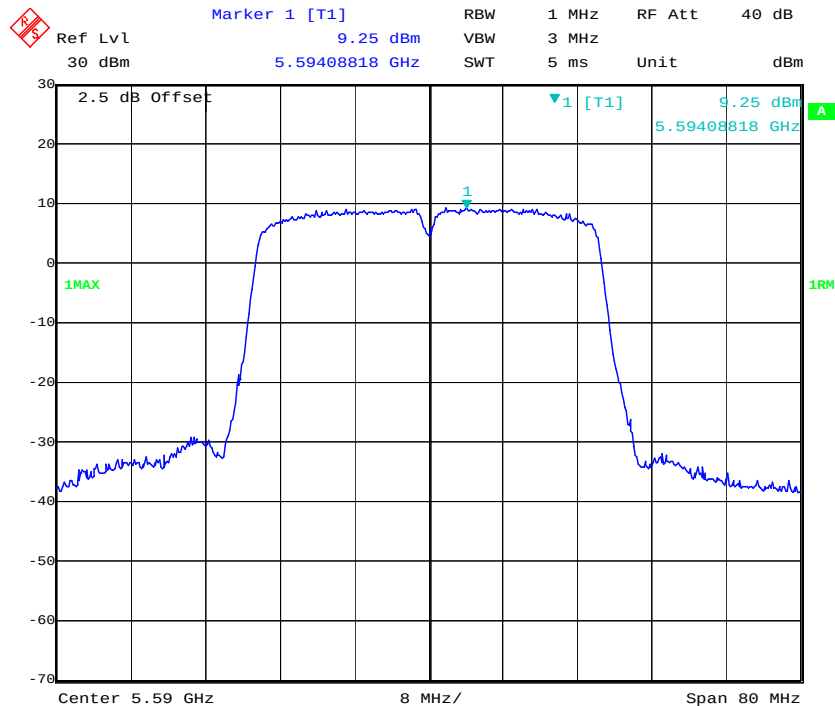
802.11n ht20 Cross Channel – Chain3



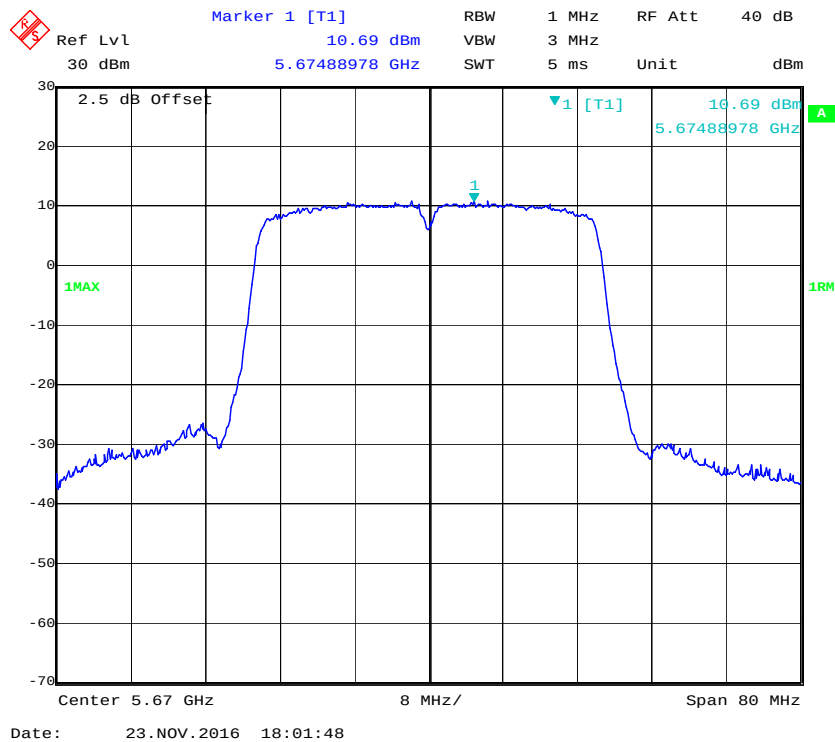
802.11n ht40 Low Channel – Chain3



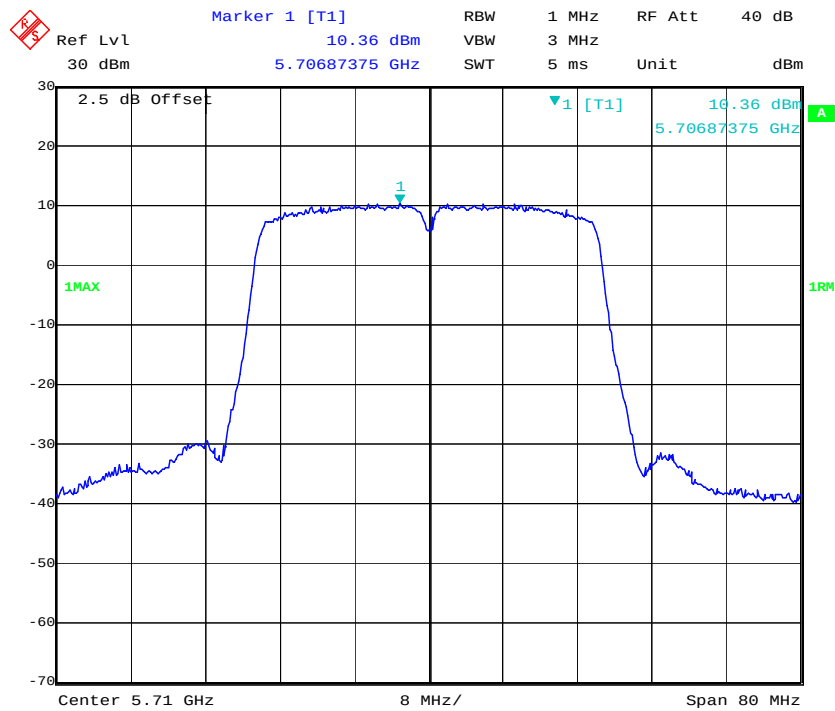
802.11n ht40 Middle Channel – Chain3



802.11n ht40 High Channel – Chain3

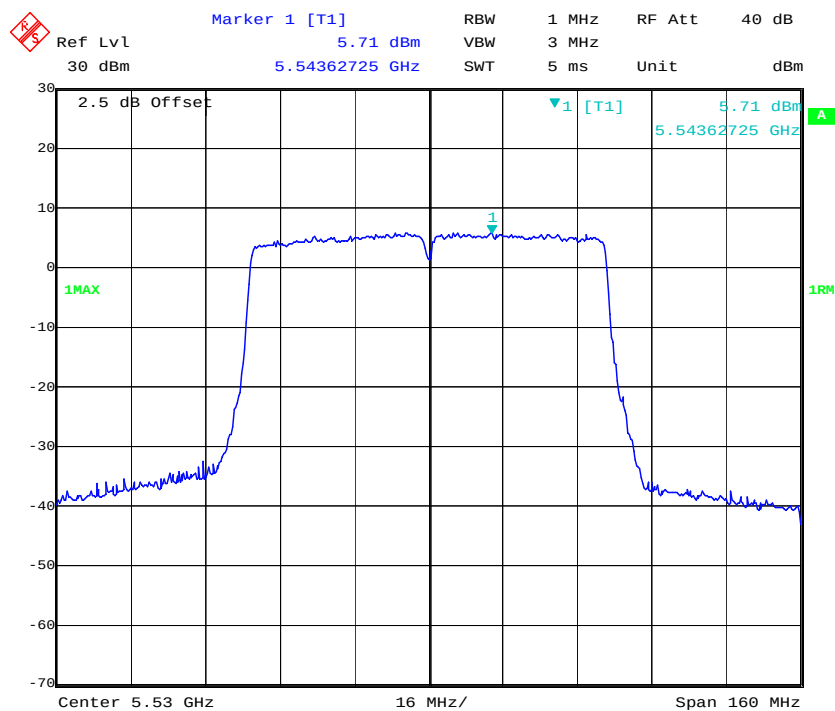


802.11n ht40 Cross Channel – Chain3



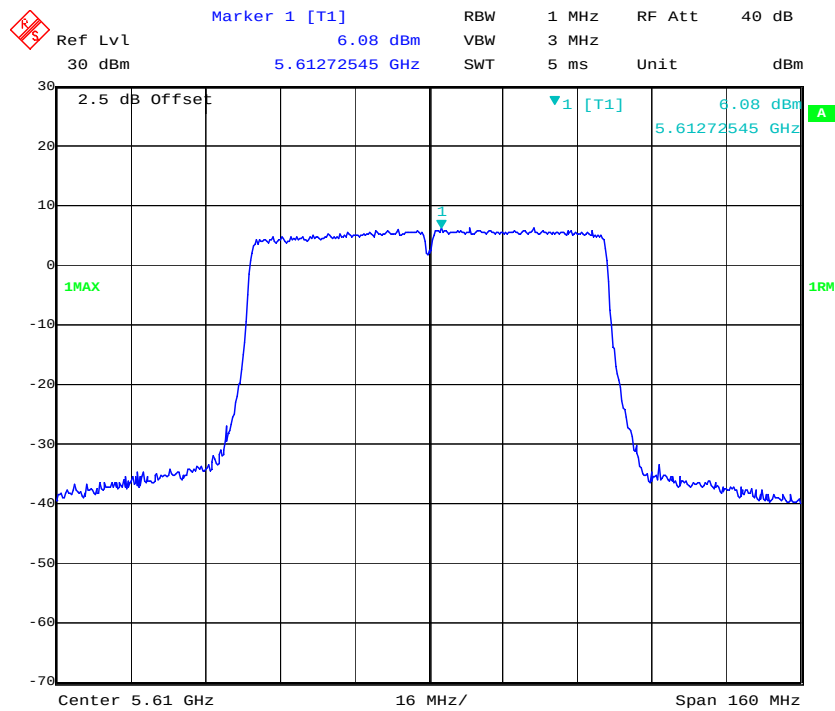
Date: 30.NOV.2016 10:19:52

802.11 ac80 Low Channel – Chain3

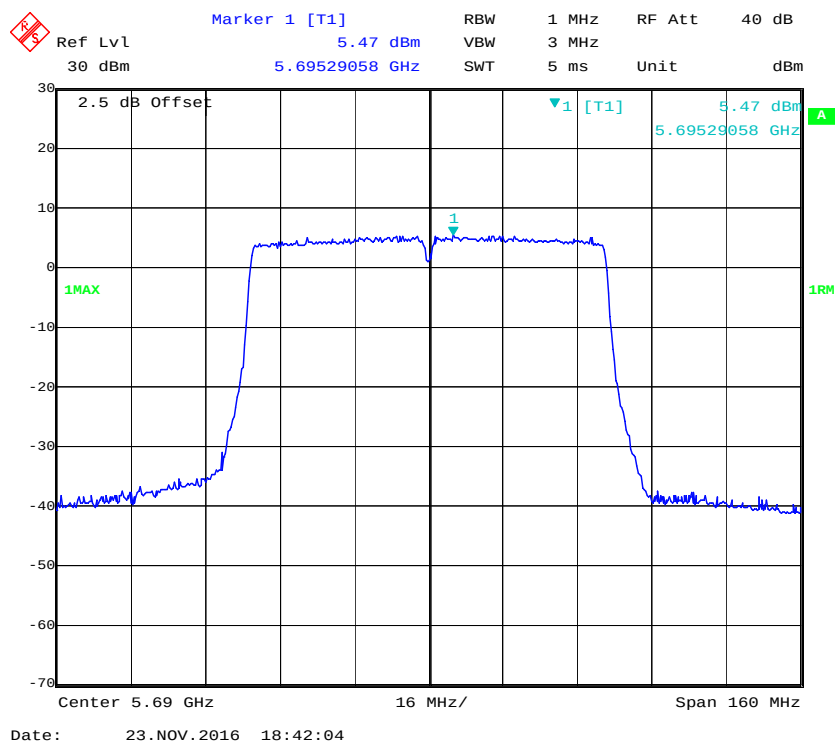


Date: 23.NOV.2016 18:44:35

802.11 ac80 High Channel – Chain3

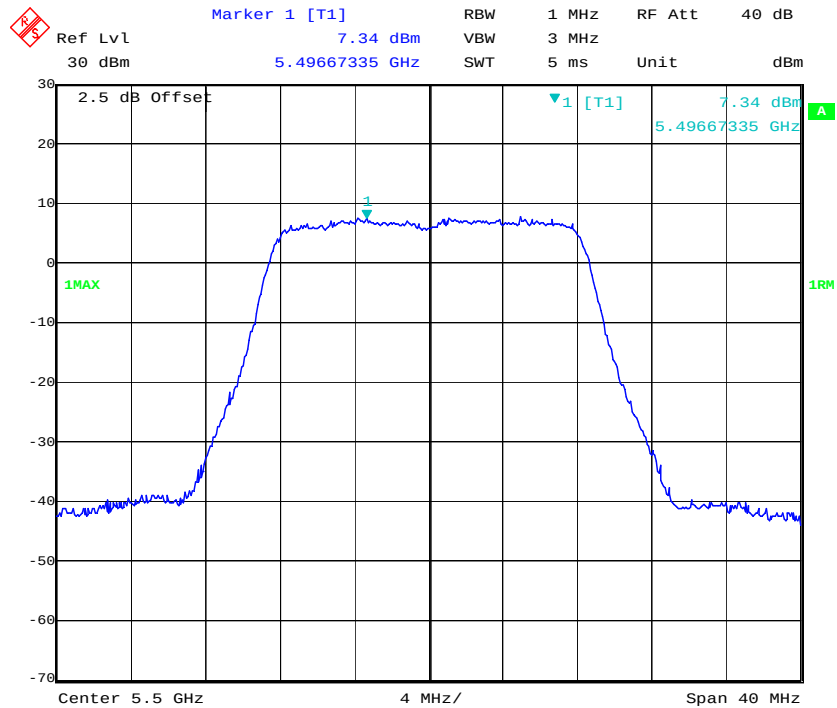


802.11 ac80 Cross Channel – Chain3

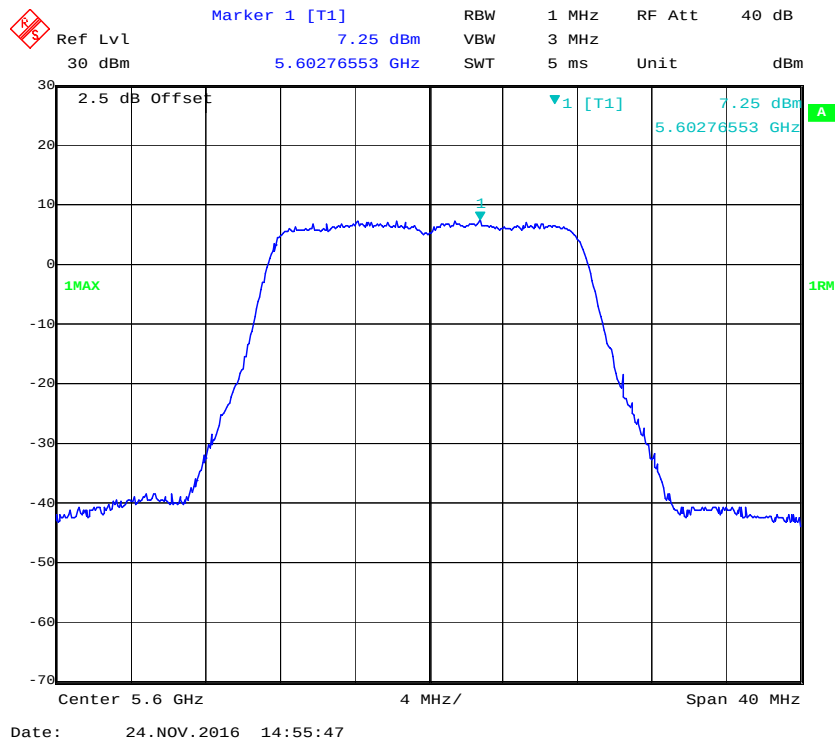


MIMO-2TX:

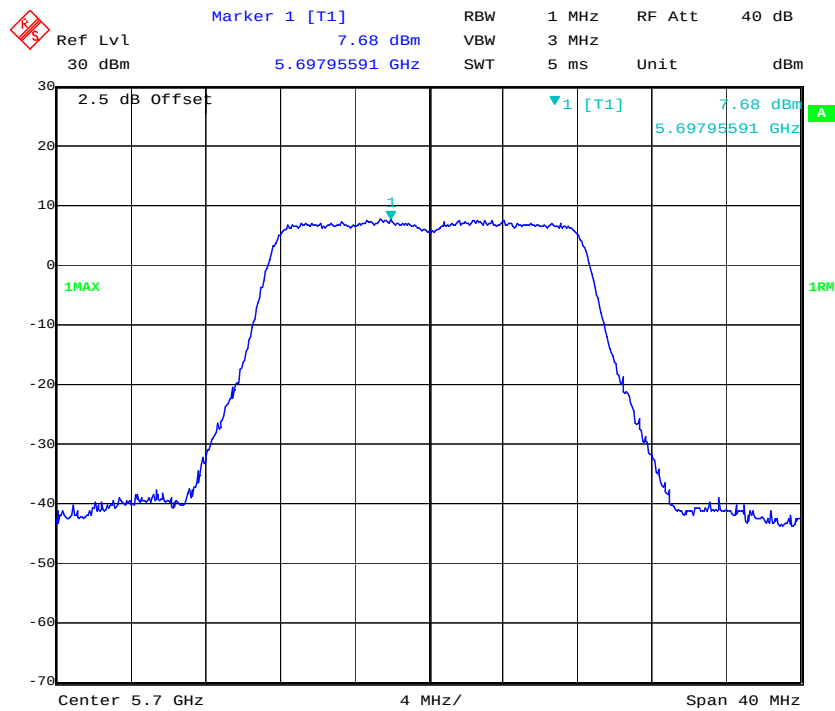
802.11a Low Channel – Chain0



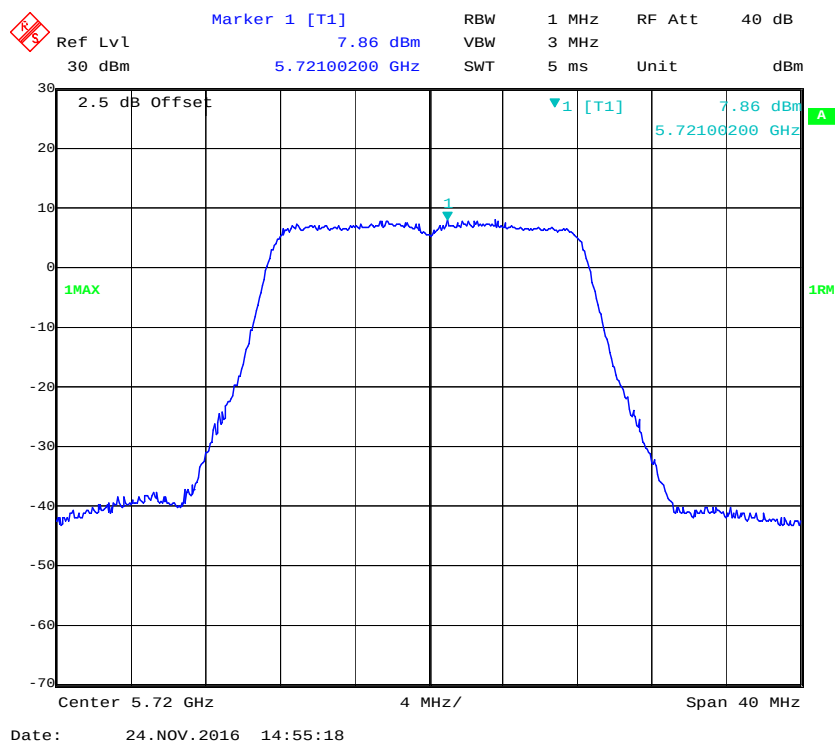
802.11a Middle Channel – Chain0



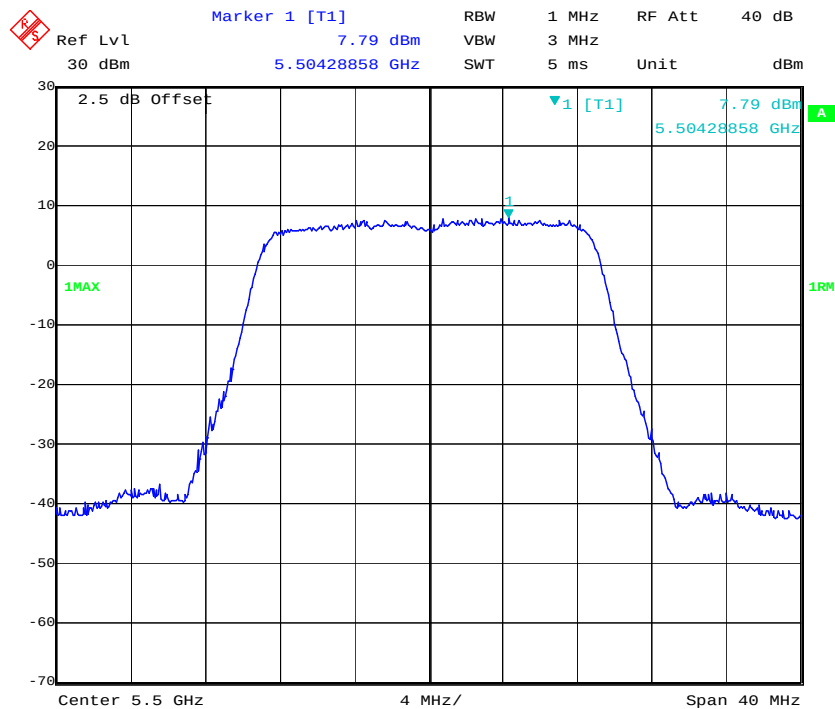
802.11a High Channel – Chain0



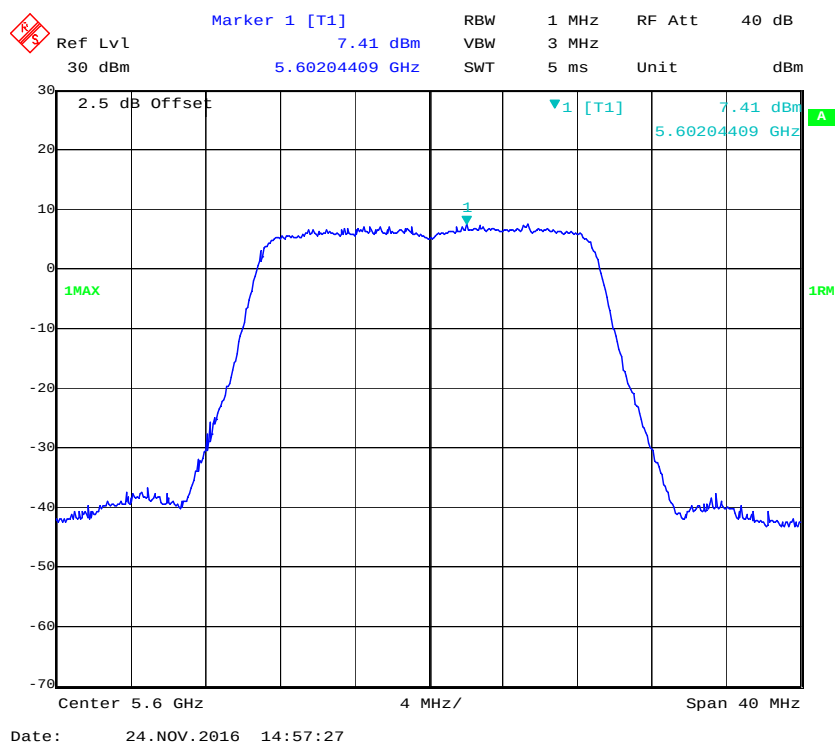
802.11a Cross Channel – Chain0



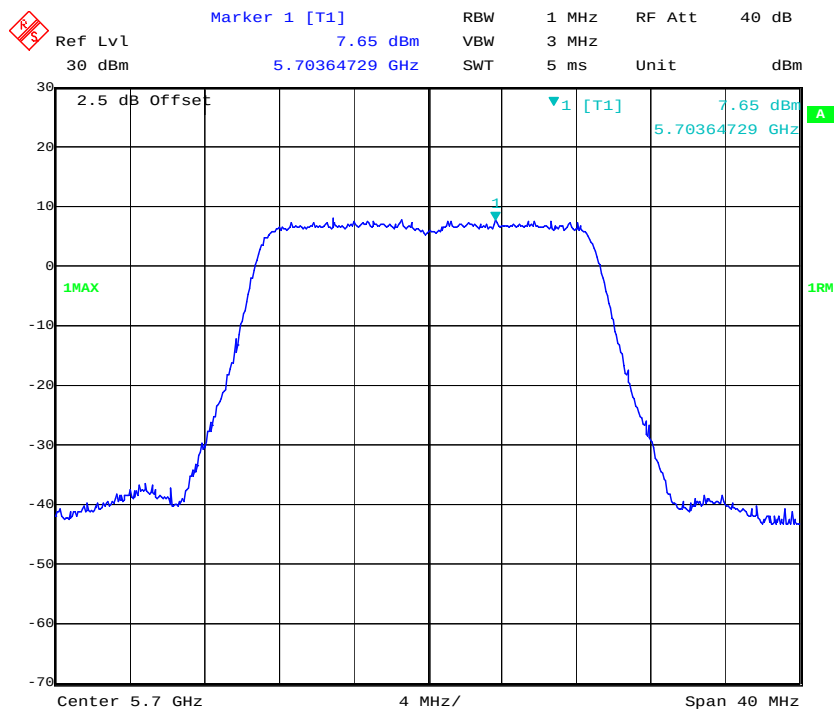
802.11n ht20 Low Channel – Chain0



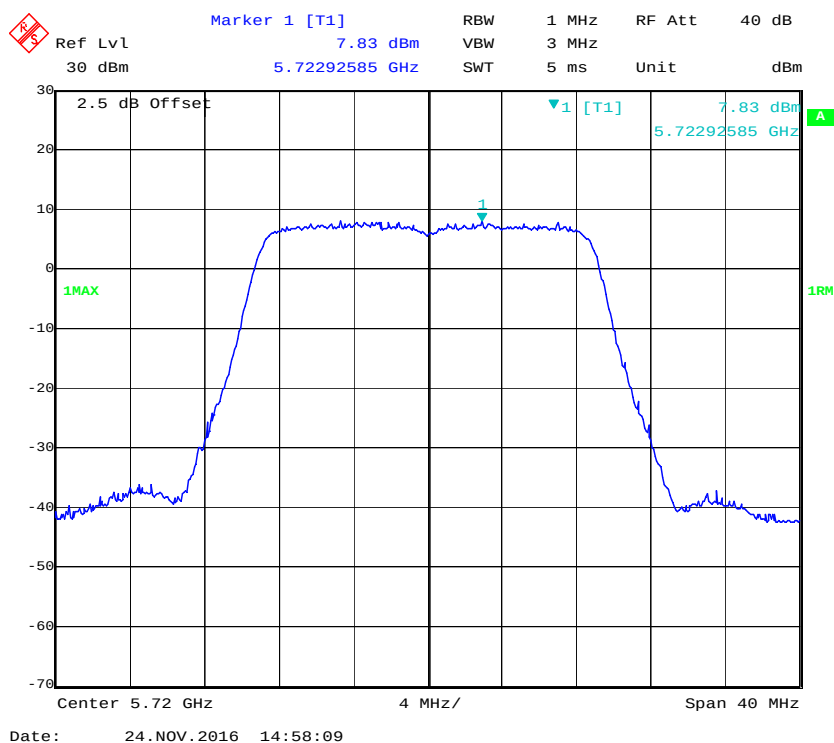
802.11n ht20 Middle Channel – Chain0



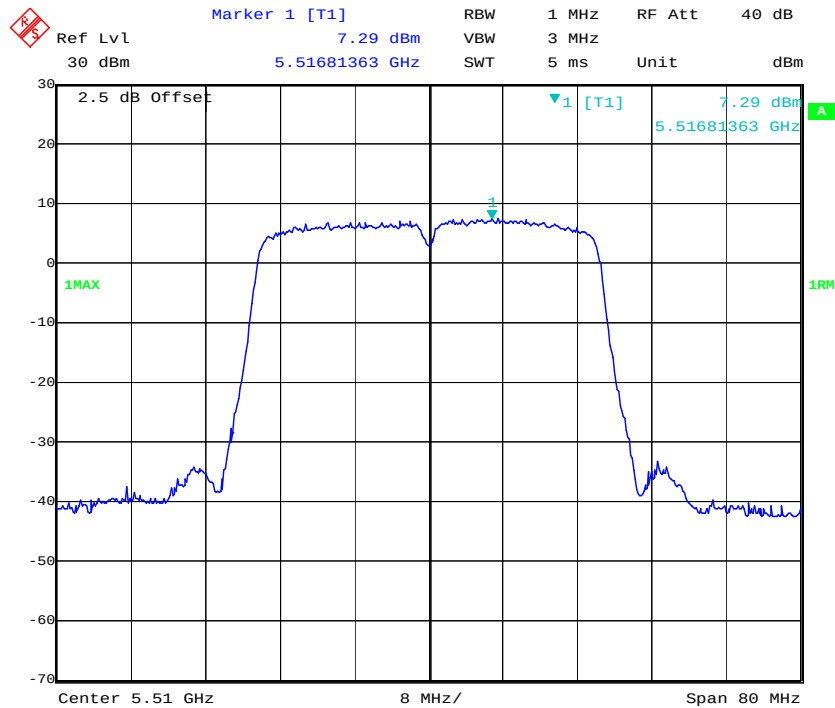
802.11n ht20 High Channel – Chain0



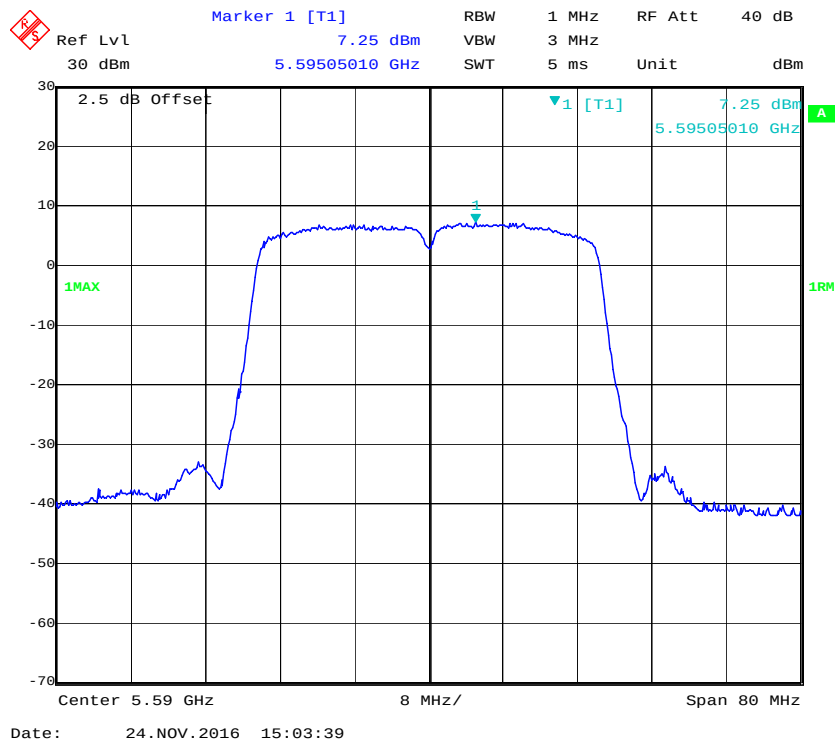
802.11n ht20 Cross Channel – Chain0



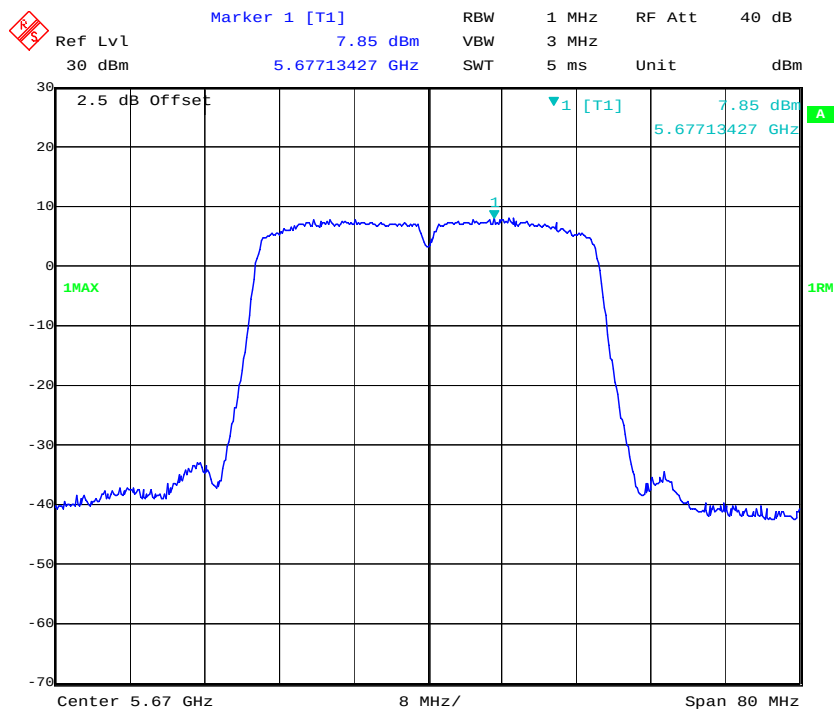
802.11n ht40 Low Channel – Chain0



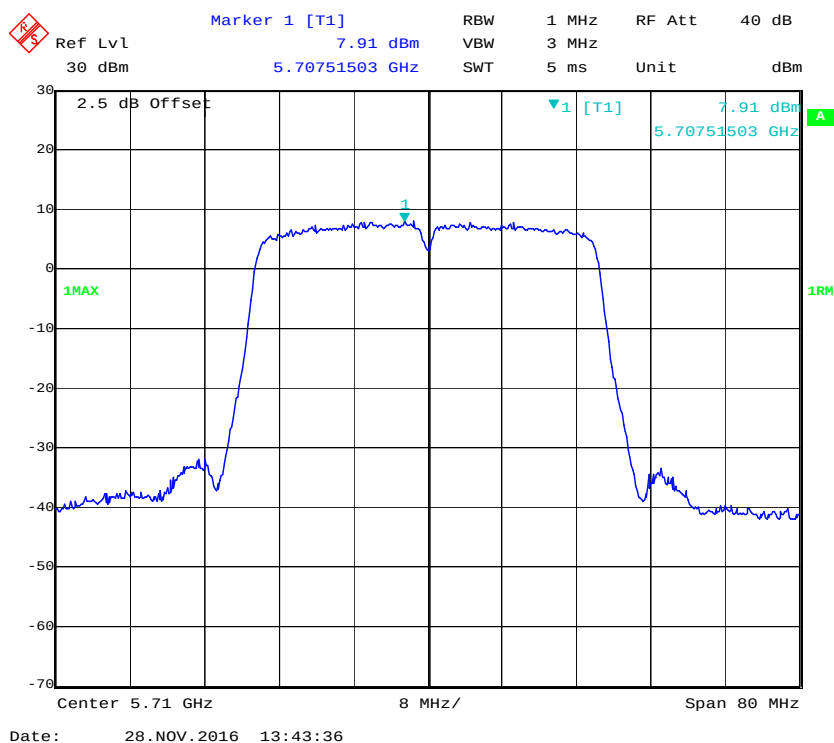
802.11n ht40 Middle Channel – Chain0



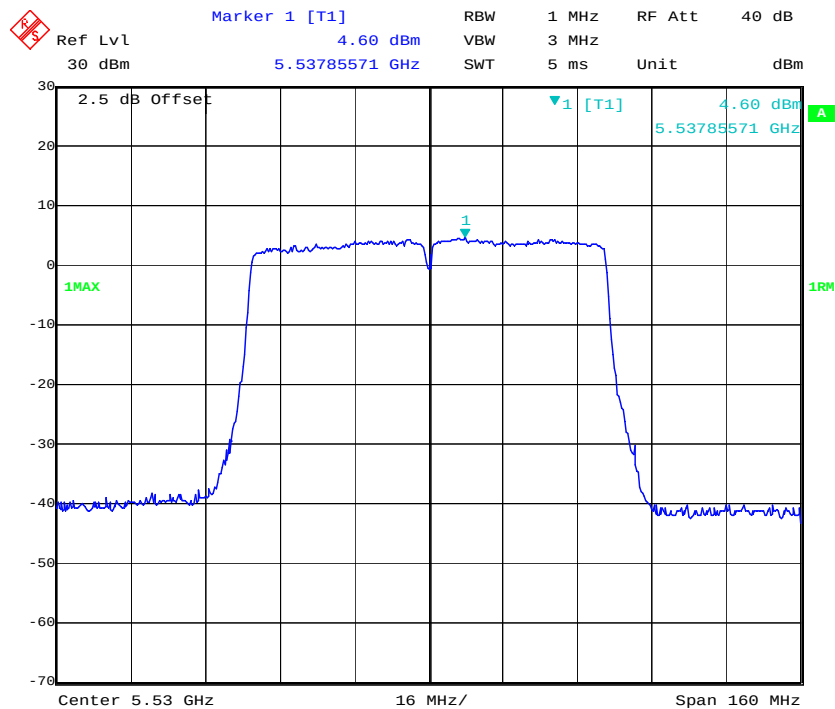
802.11n ht40 High Channel – Chain0



802.11n ht40 Cross Channel – Chain0

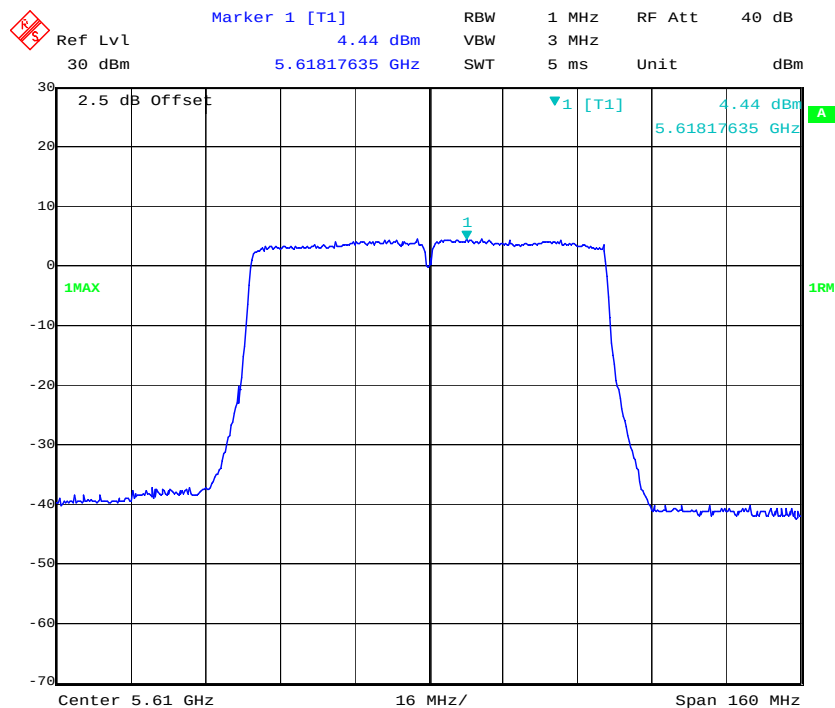


802.11 ac80 Low Channel – Chain0



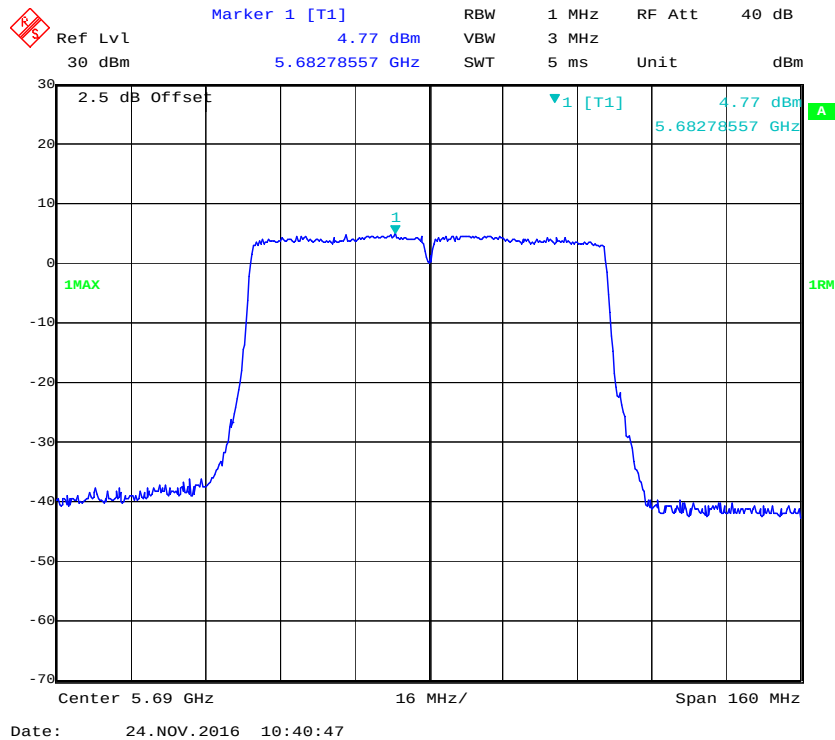
Date: 24.NOV.2016 10:38:47

802.11 ac80 High Channel – Chain0

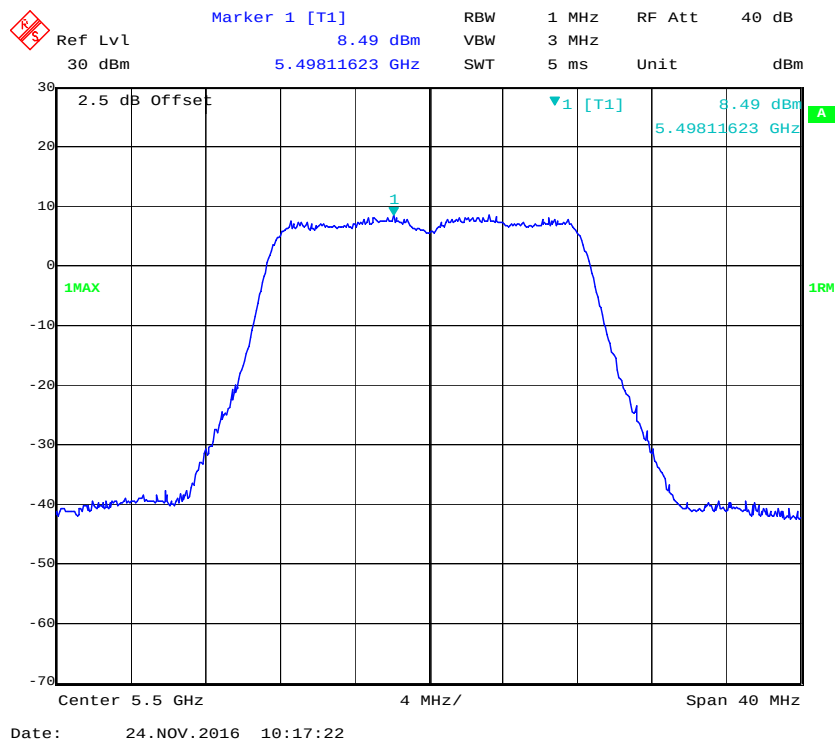


Date: 24.NOV.2016 15:06:10

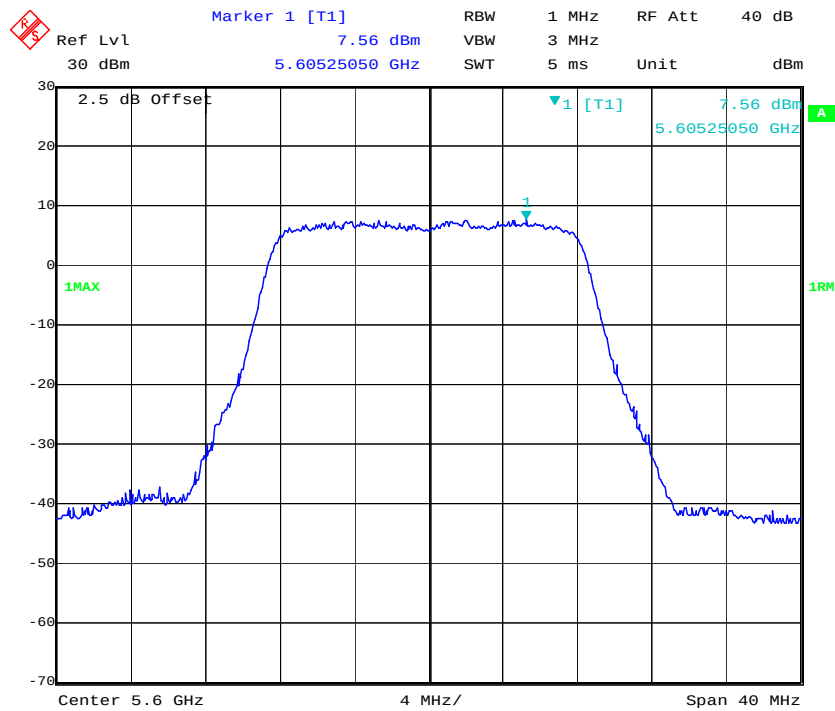
802.11 ac80 Cross Channel – Chain0



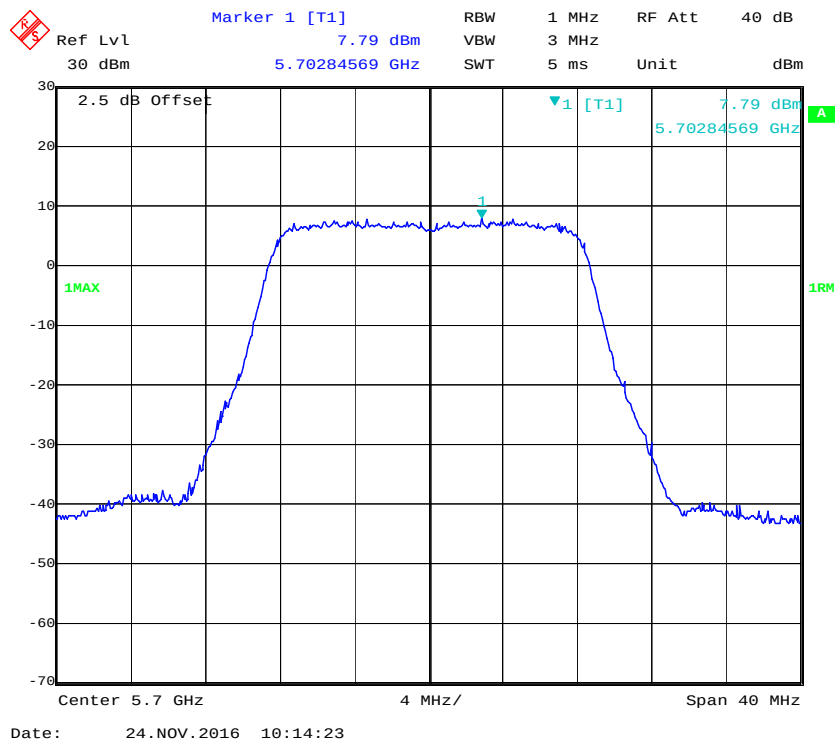
802.11a Low Channel – Chain1



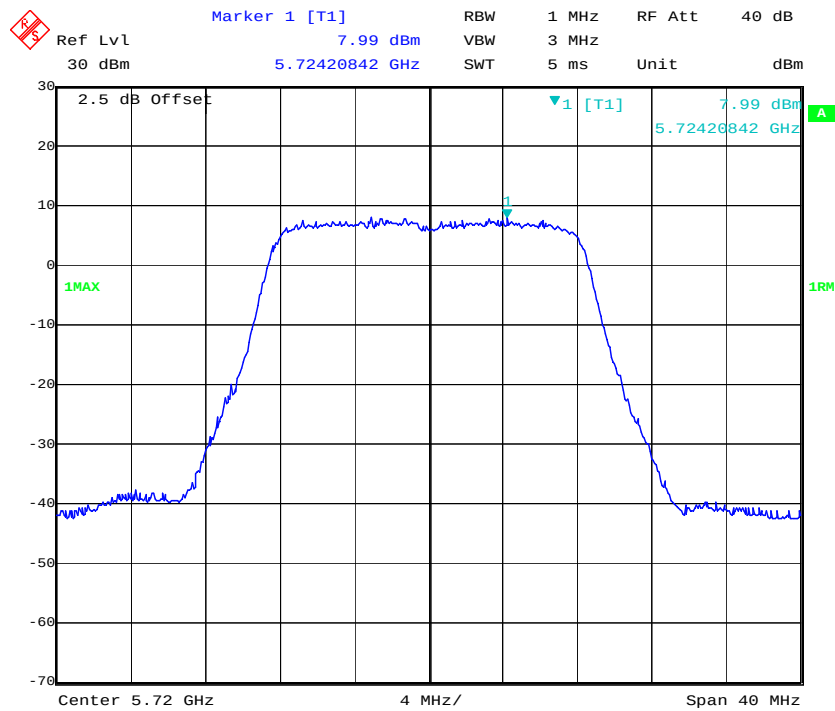
802.11a Middle Channel – Chain1



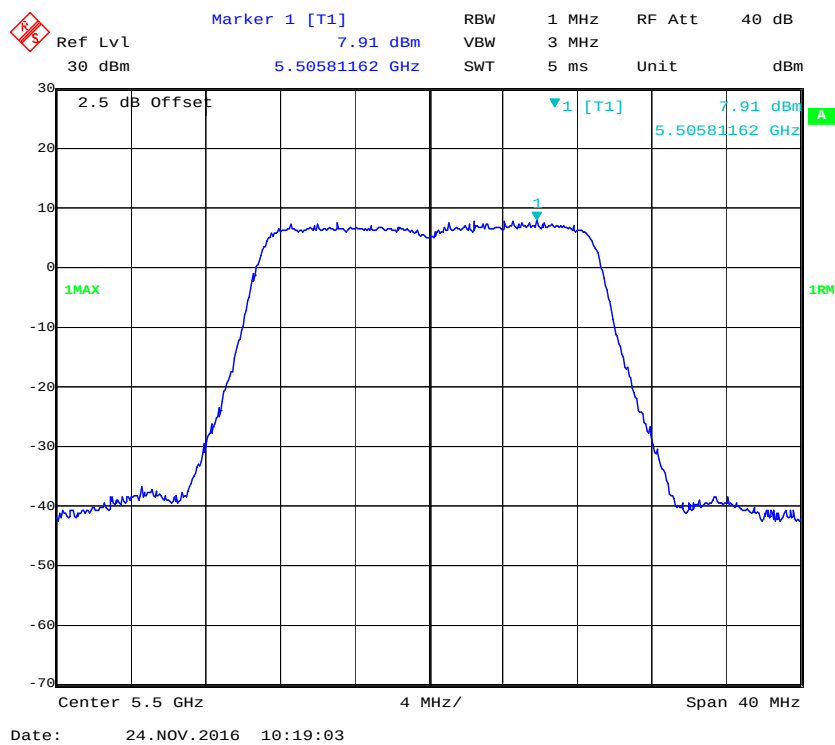
802.11a High Channel – Chain1



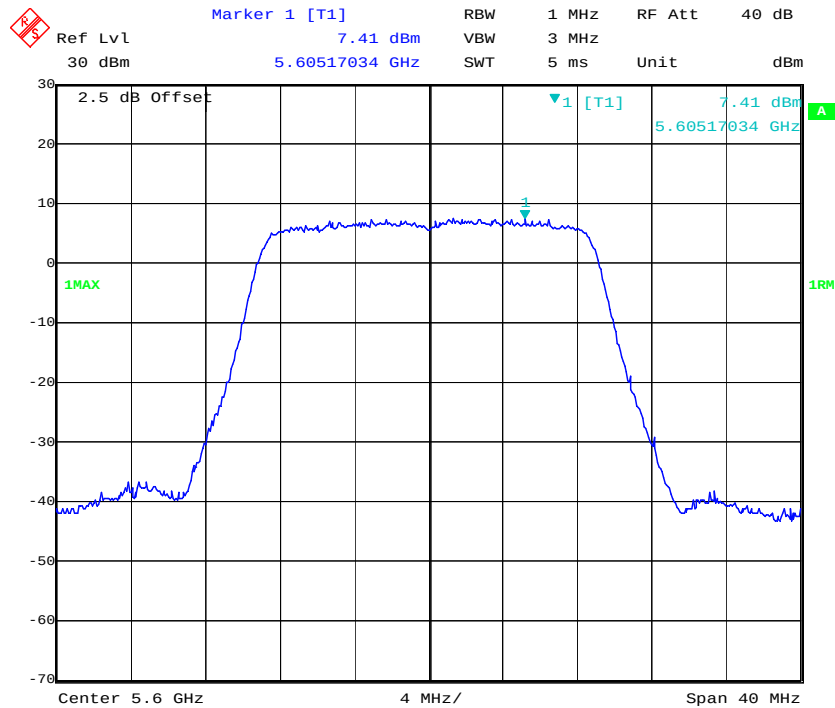
802.11a Cross Channel – Chain1



802.11n ht20 Low Channel – Chain1

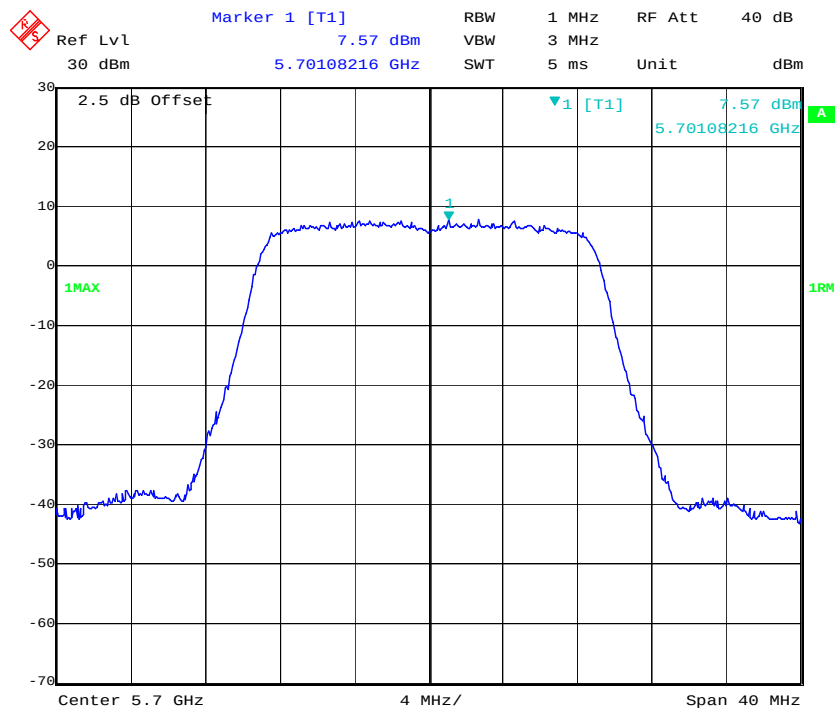


802.11n ht20 Middle Channel – Chain1



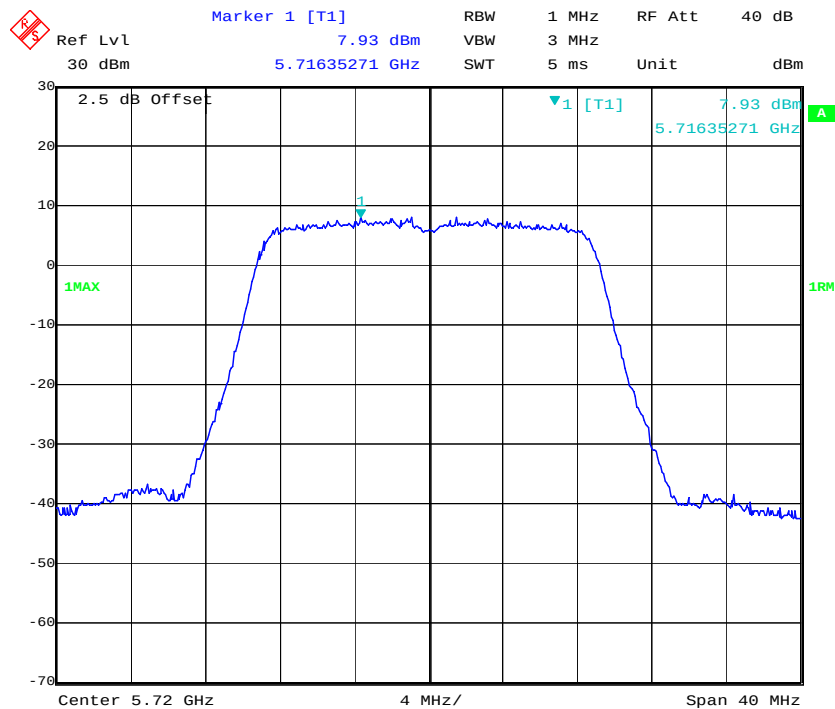
Date: 24.NOV.2016 14:59:25

802.11n ht20 High Channel – Chain1

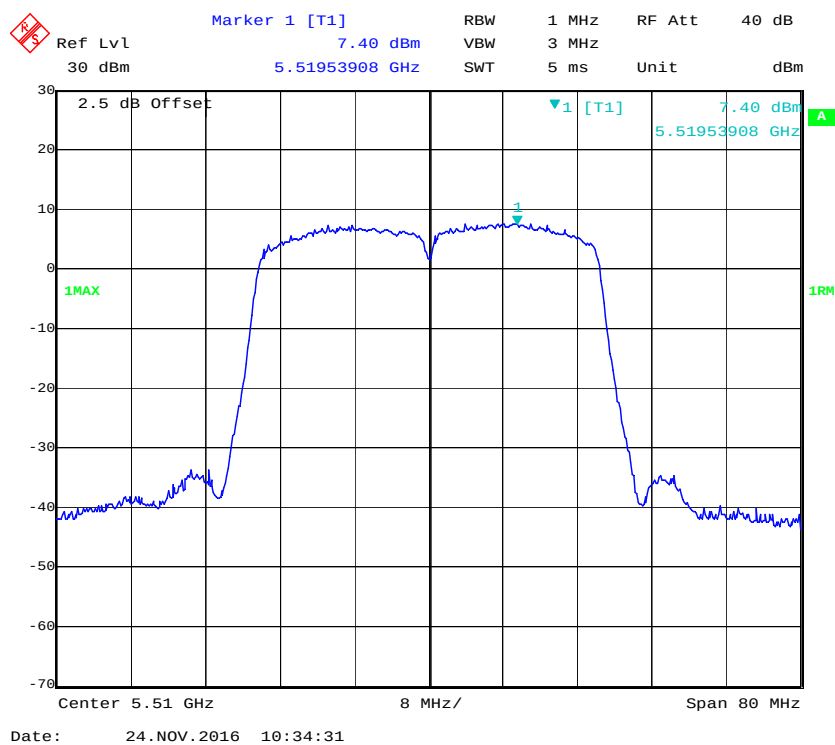


Date: 24.NOV.2016 10:20:25

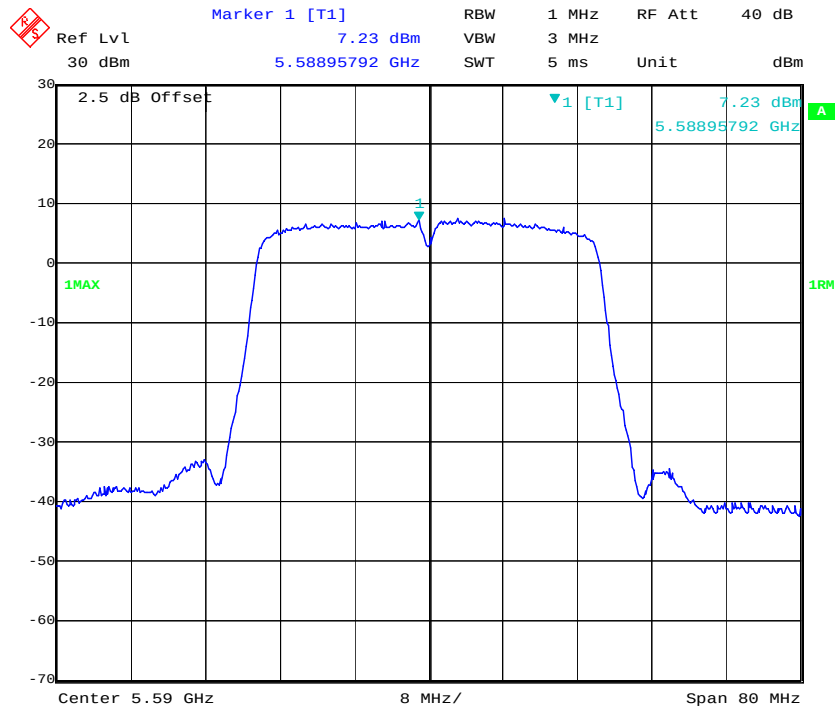
802.11n ht20 Cross Channel – Chain1



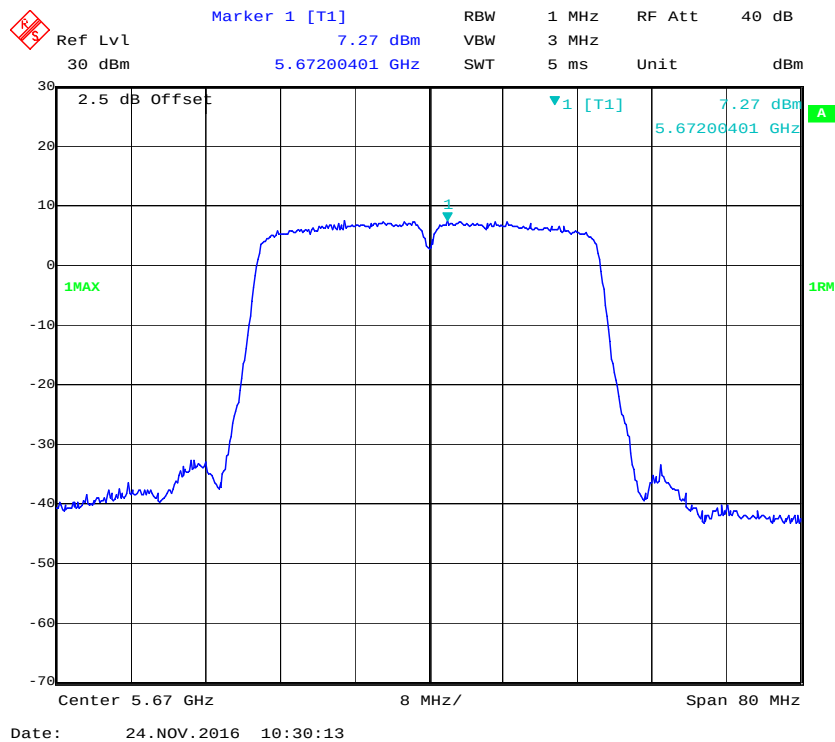
802.11n ht40 Low Channel – Chain1



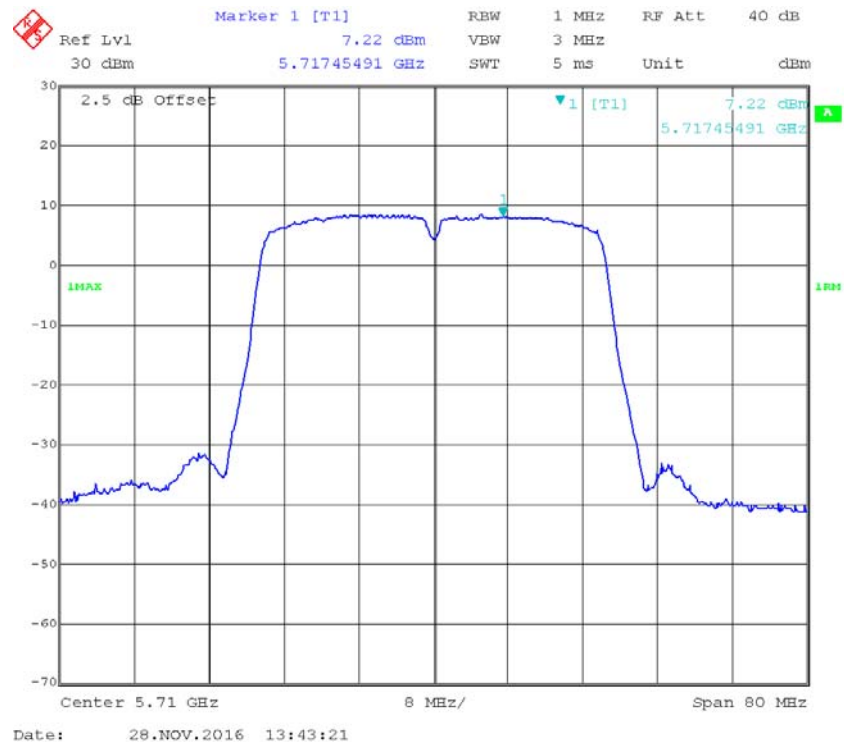
802.11n ht40 Middle Channel – Chain1



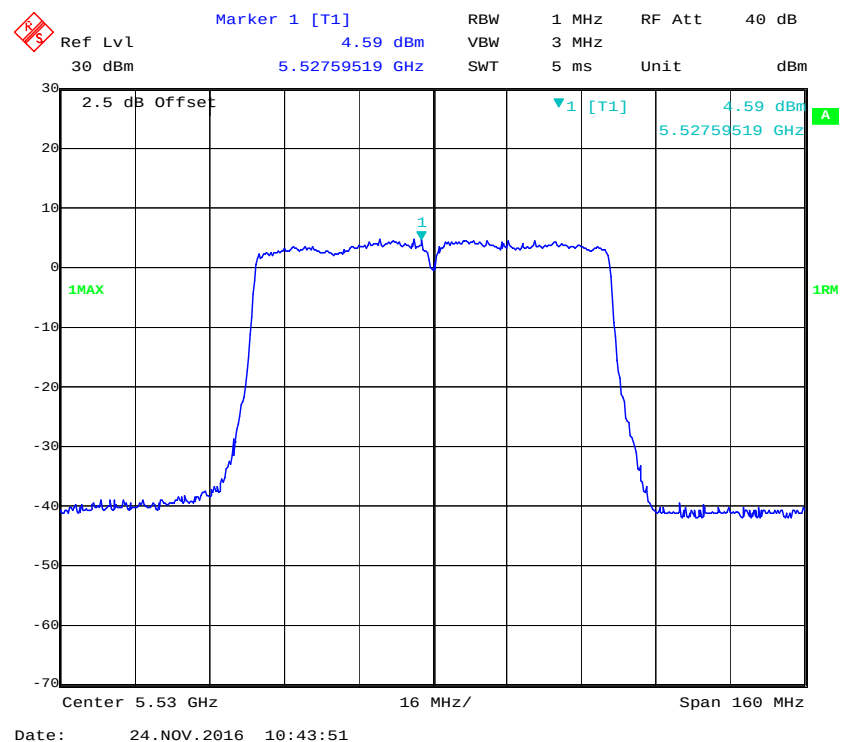
802.11n ht40 High Channel – Chain1



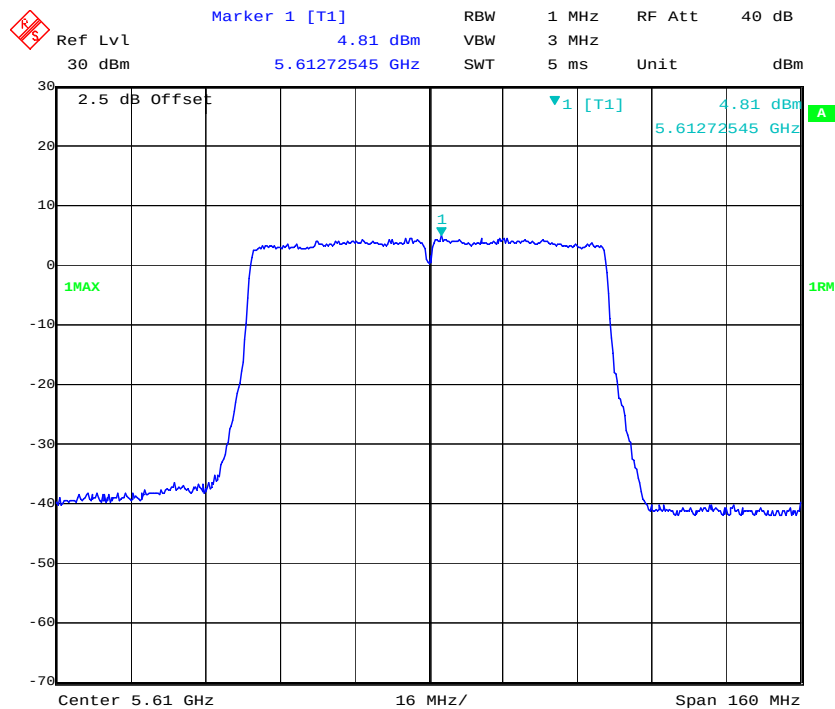
802.11n ht40 Cross Channel – Chain1



802.11 ac80 Low Channel – Chain1

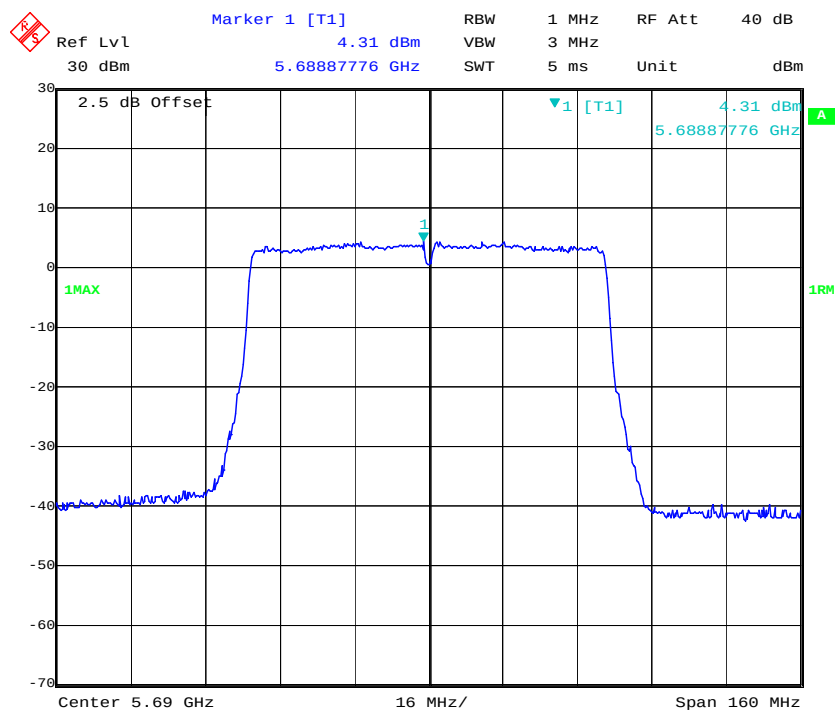


802.11 ac80 High Channel – Chain1



Date: 24.NOV.2016 15:06:41

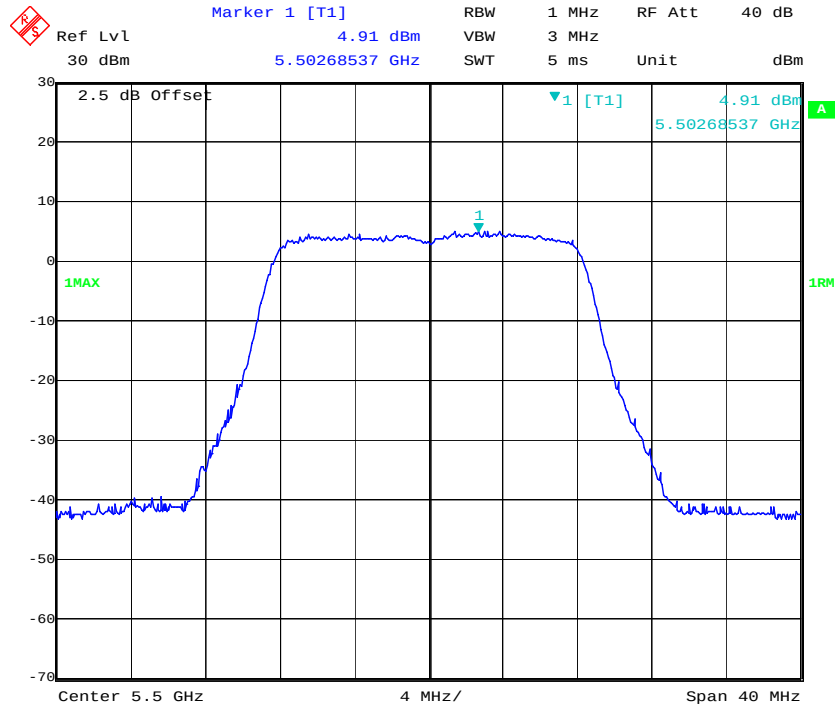
802.11 ac80 Cross Channel – Chain1



Date: 24.NOV.2016 10:42:22

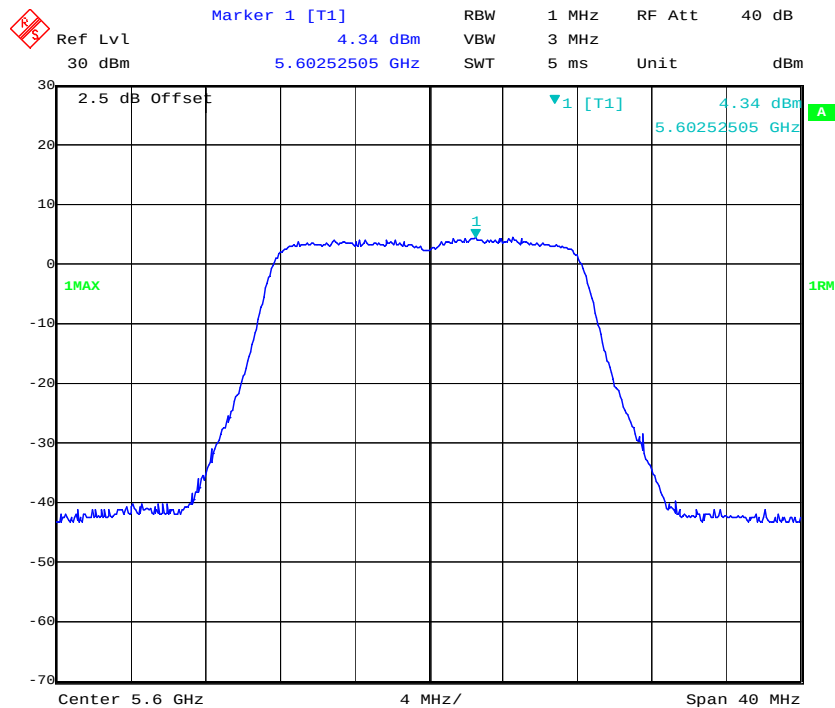
MIMO-3T3R:

802.11a Low Channel – Chain0



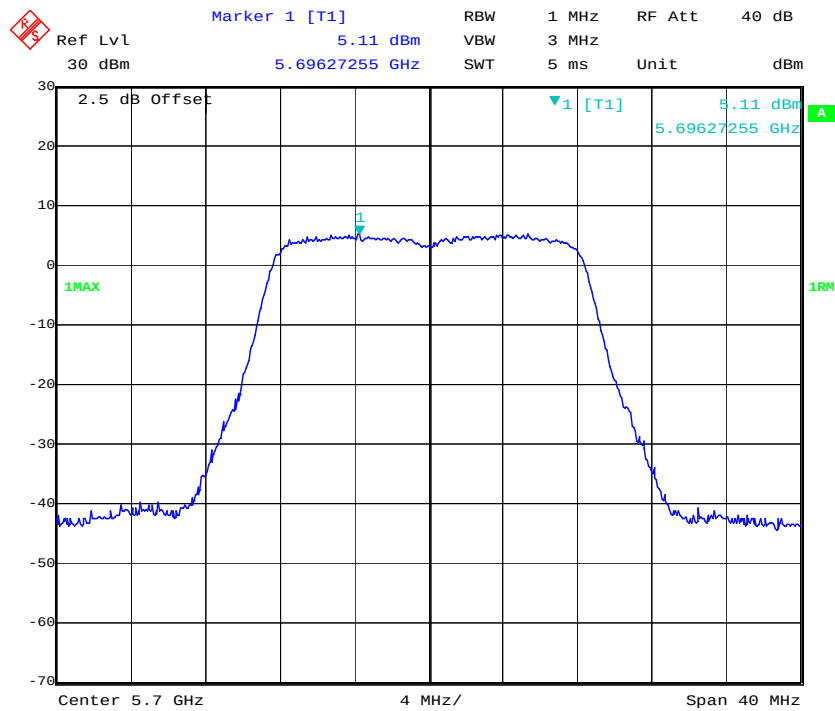
Date: 24.NOV.2016 11:44:56

802.11a Middle Channel – Chain0

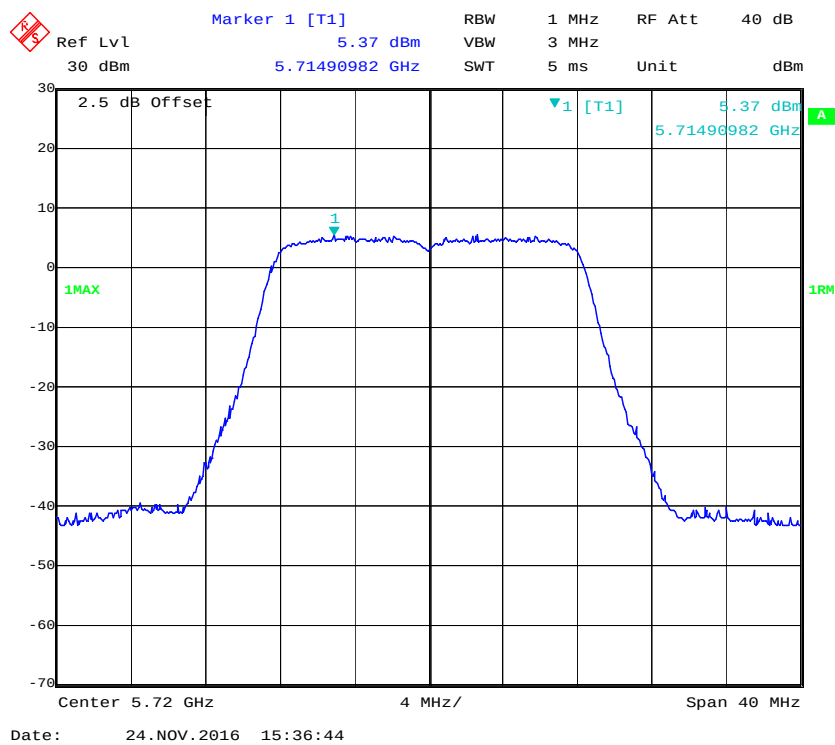


Date: 24.NOV.2016 15:41:08

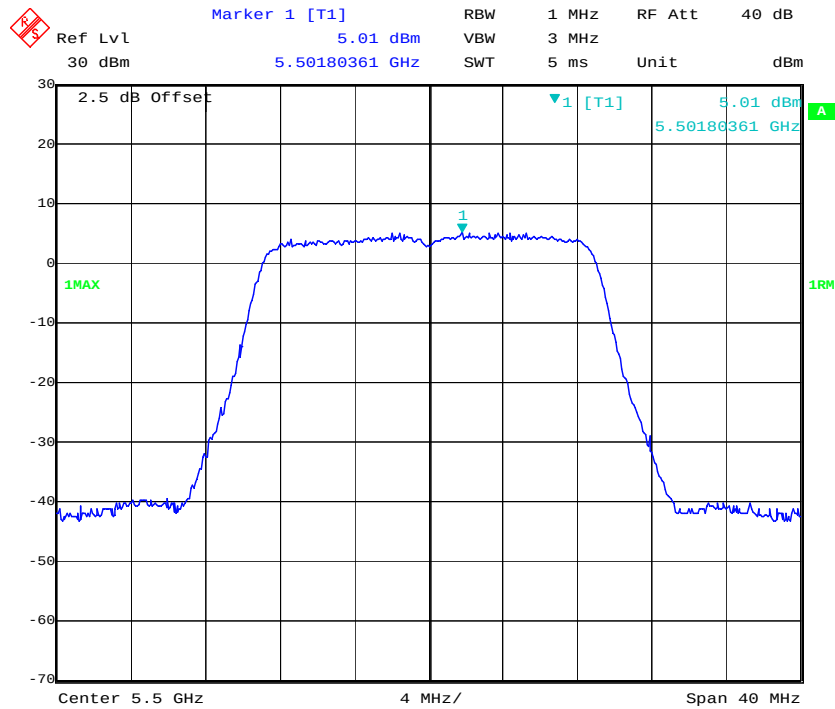
802.11a High Channel – Chain0



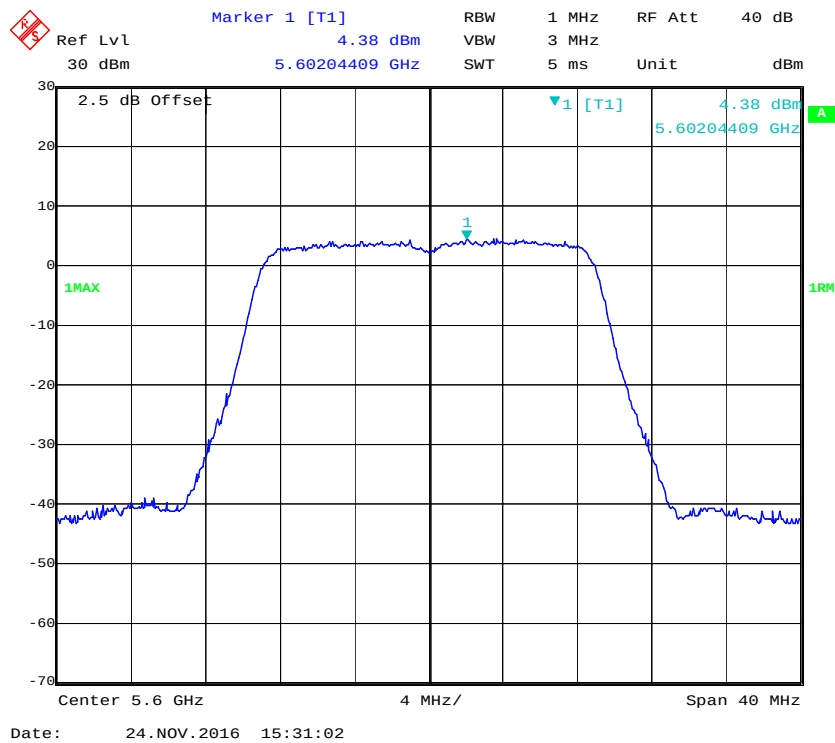
802.11a Cross Channel – Chain0



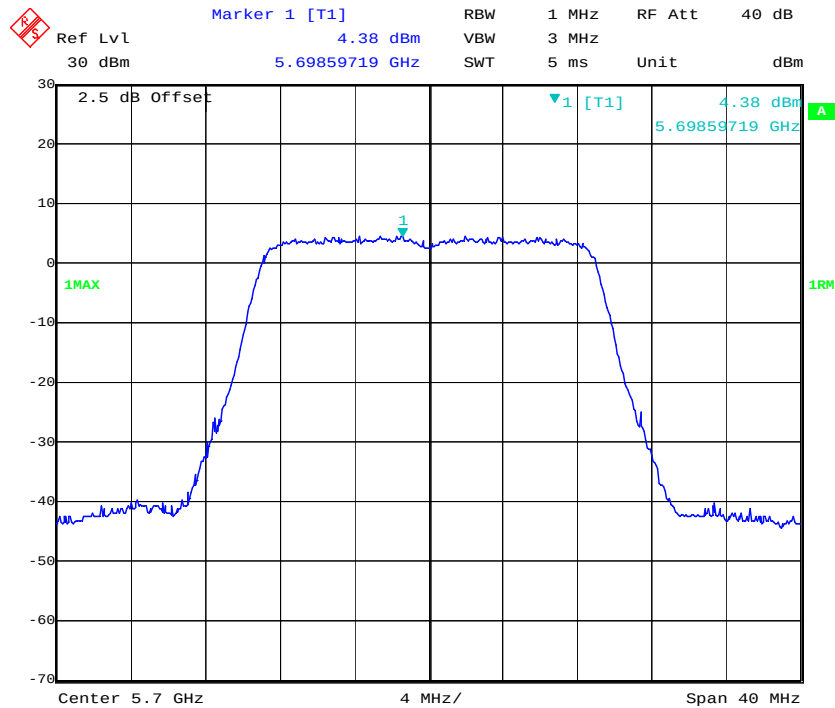
802.11n ht20 Low Channel – Chain0



802.11n ht20 Middle Channel – Chain0

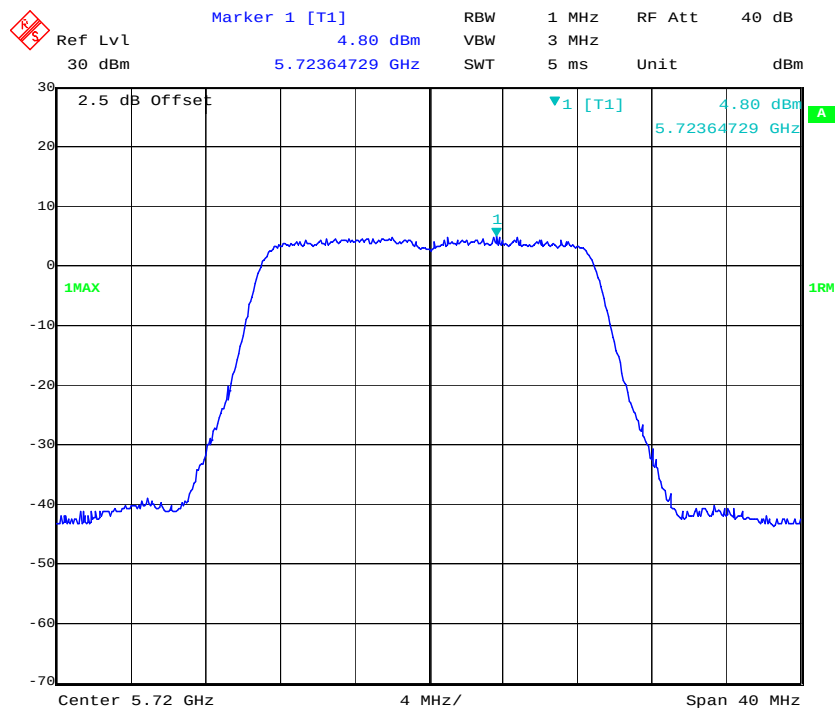


802.11n ht20 High Channel – Chain0



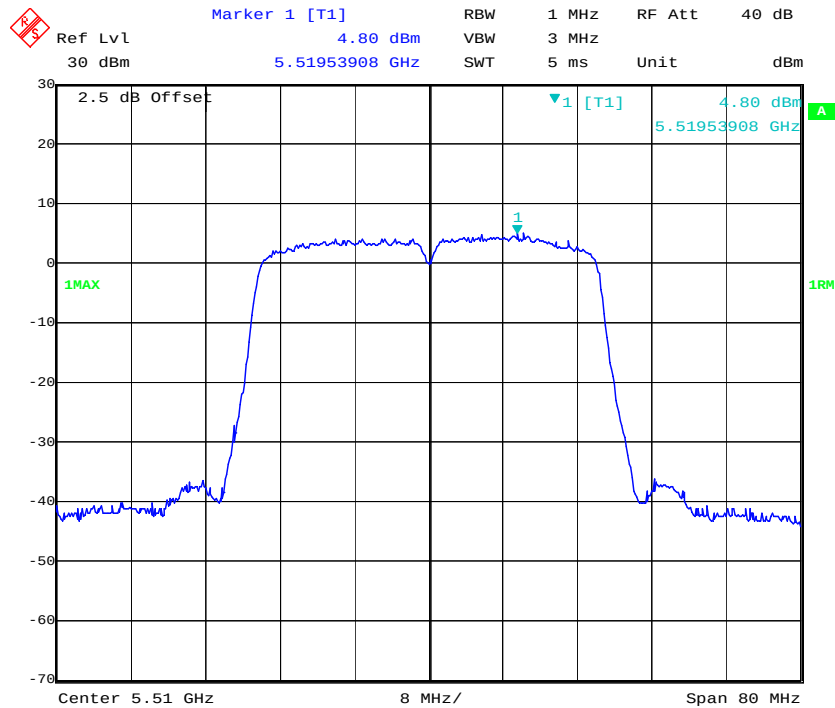
Date: 24.NOV.2016 11:01:30

802.11n ht20 Cross Channel – Chain0



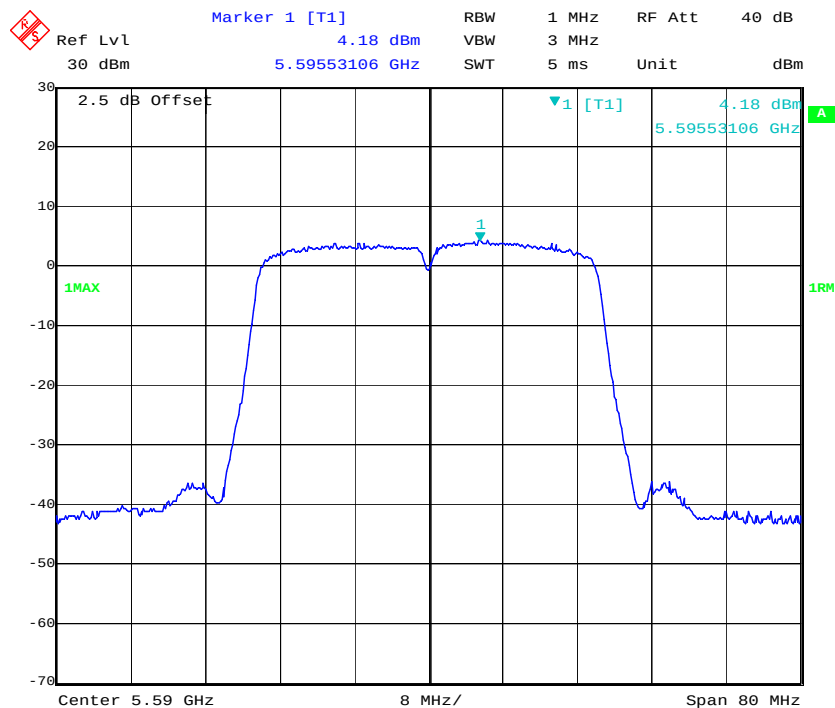
Date: 24.NOV.2016 15:35:08

802.11n ht40 Low Channel – Chain0



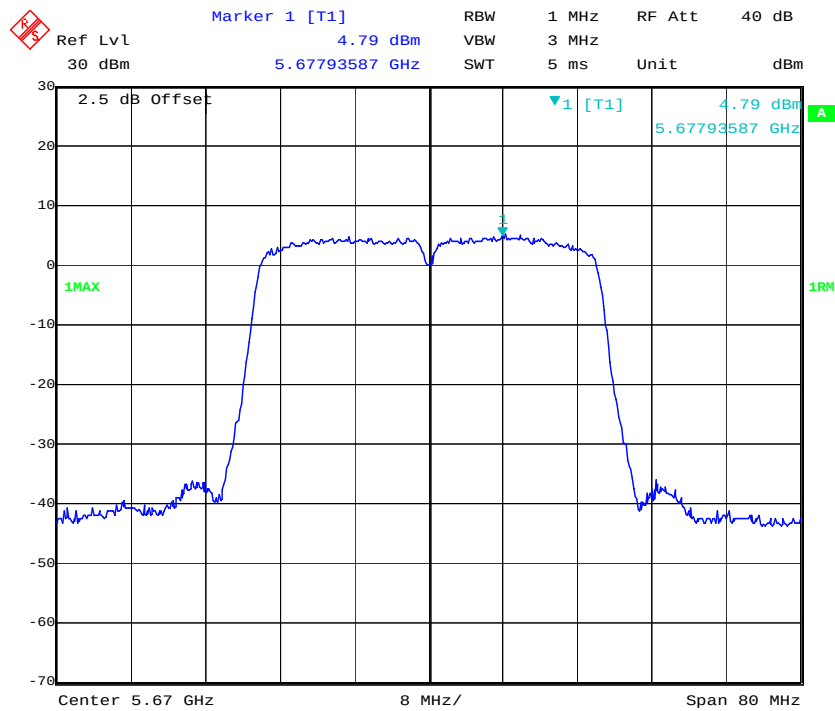
Date: 24.NOV.2016 12:04:12

802.11n ht40 Middle Channel – Chain0

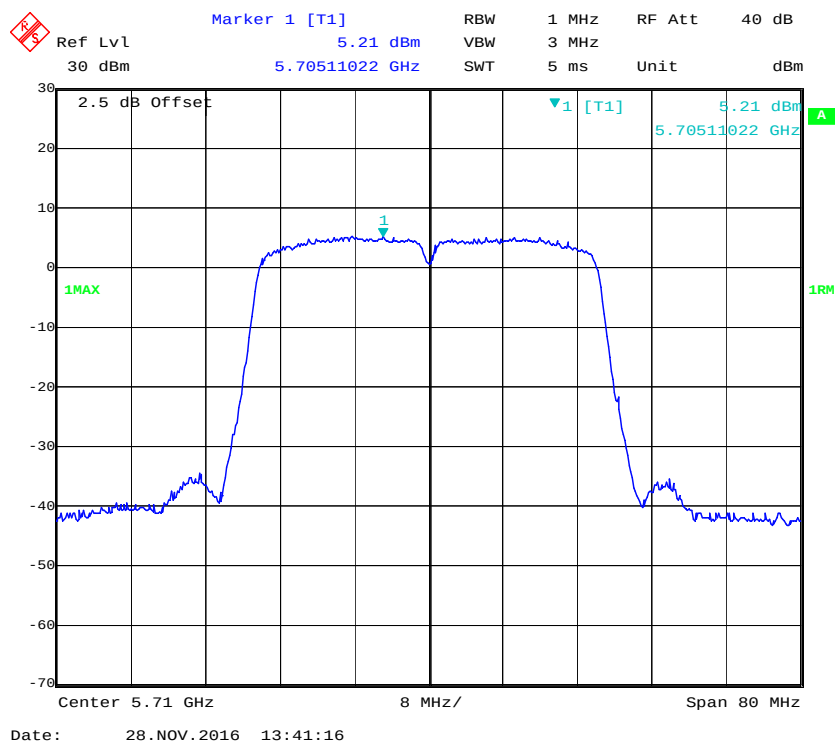


Date: 24.NOV.2016 15:28:37

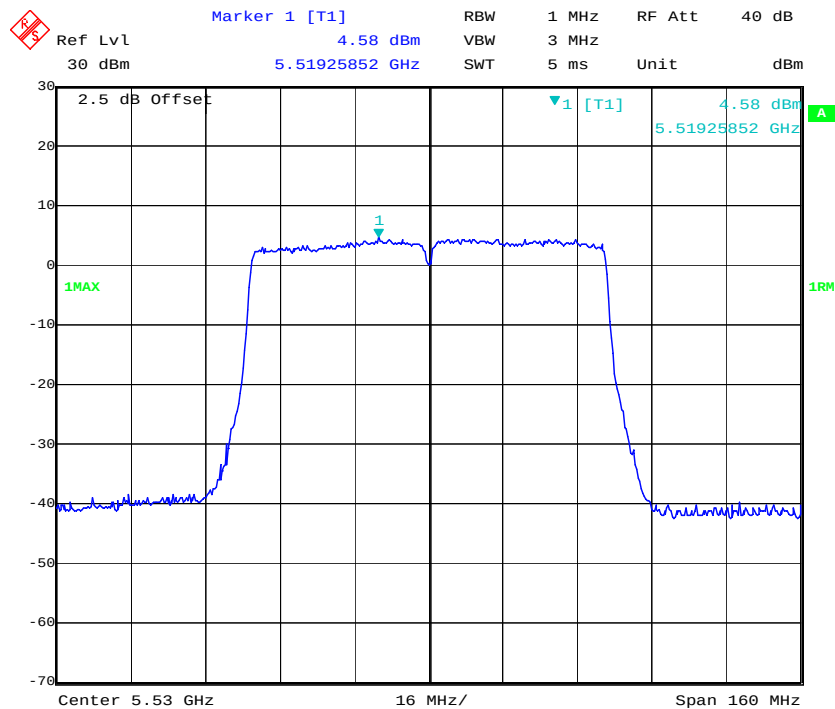
802.11n ht40 High Channel – Chain0



802.11n ht40 Cross Channel – Chain0

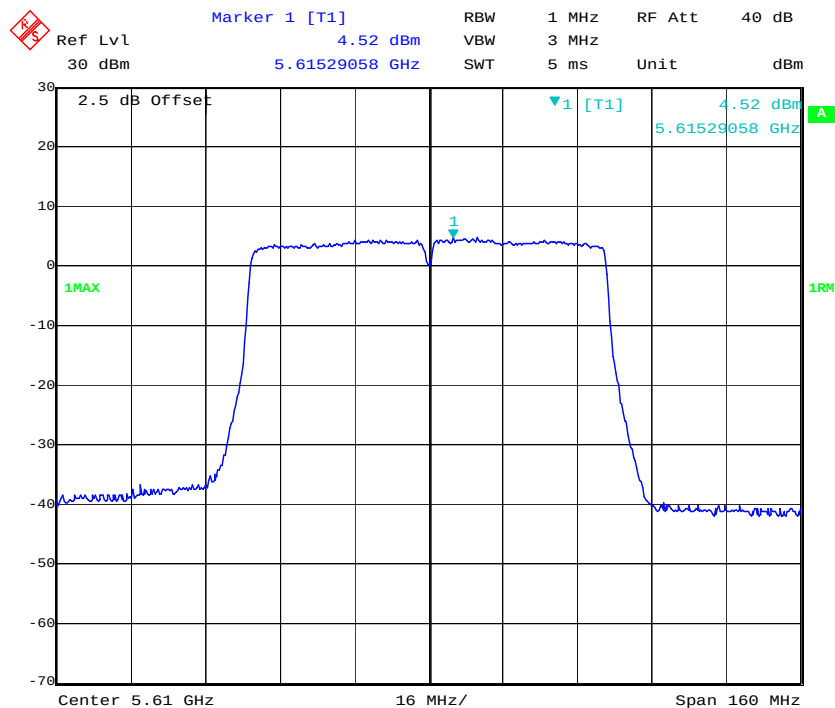


802.11 ac80 Low Channel – Chain0



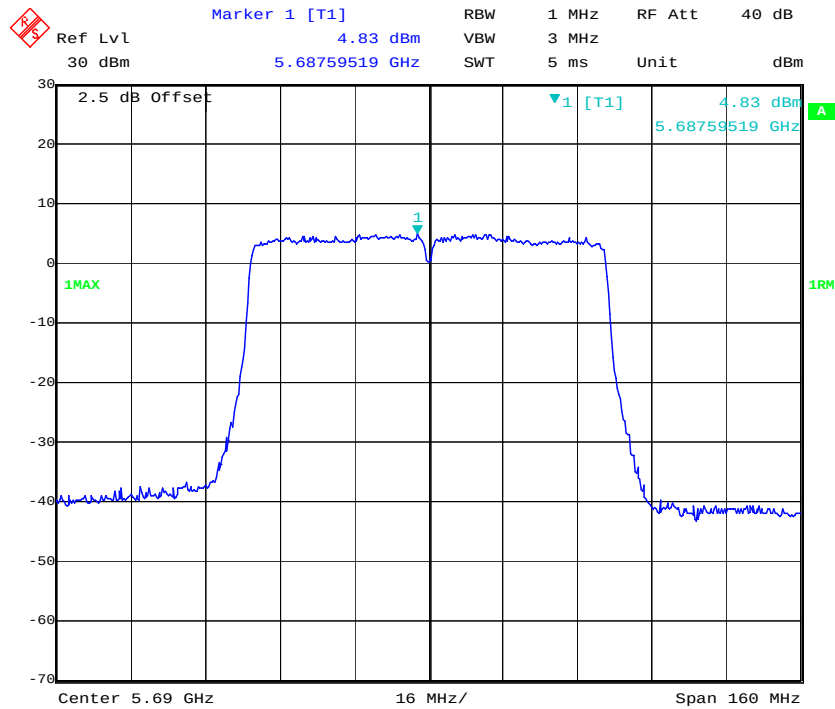
Date: 24.NOV.2016 11:10:35

802.11 ac80 High Channel – Chain0

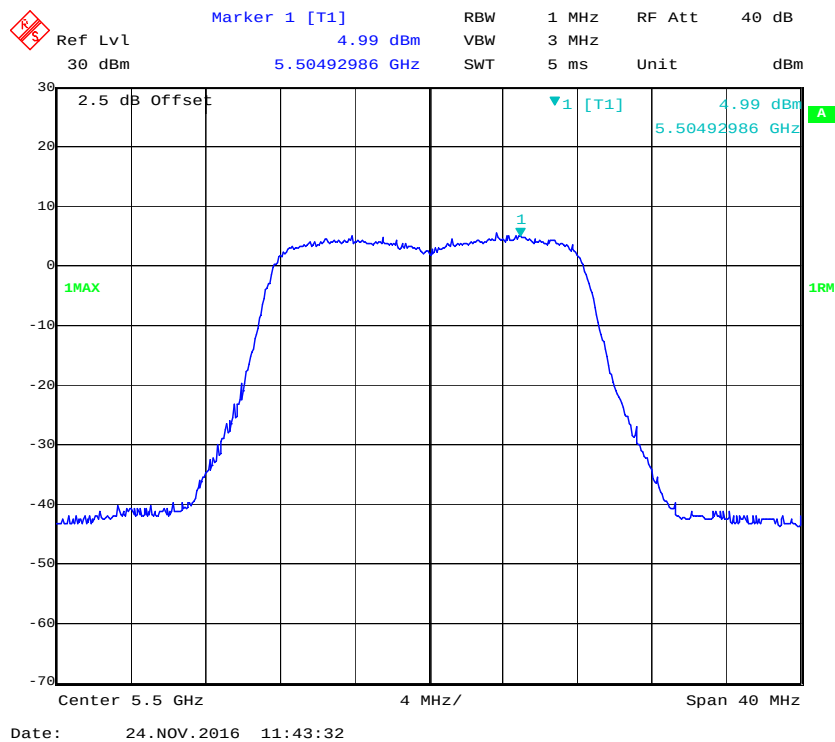


Date: 24.NOV.2016 15:16:19

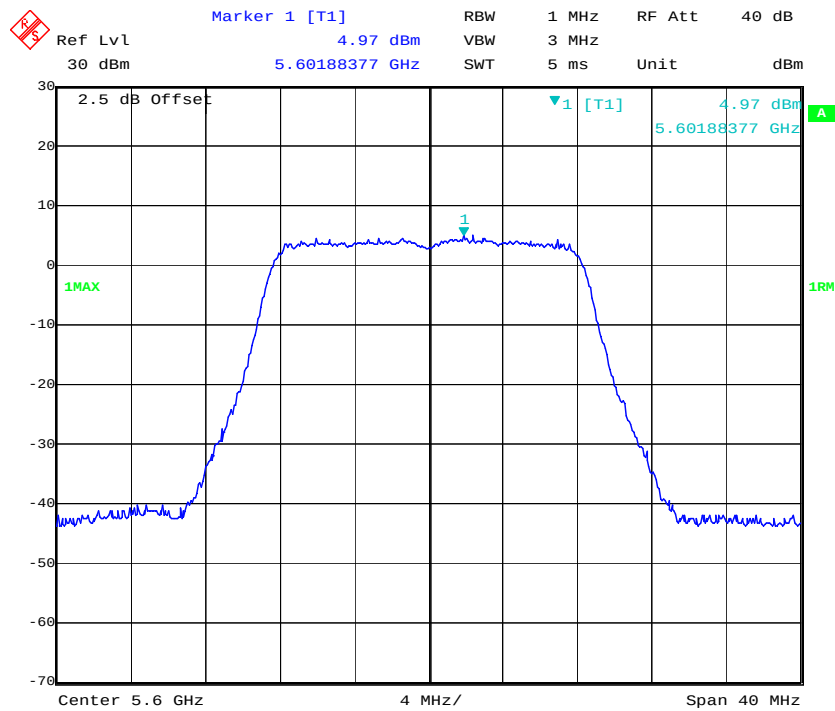
802.11 ac80 Cross Channel – Chain0



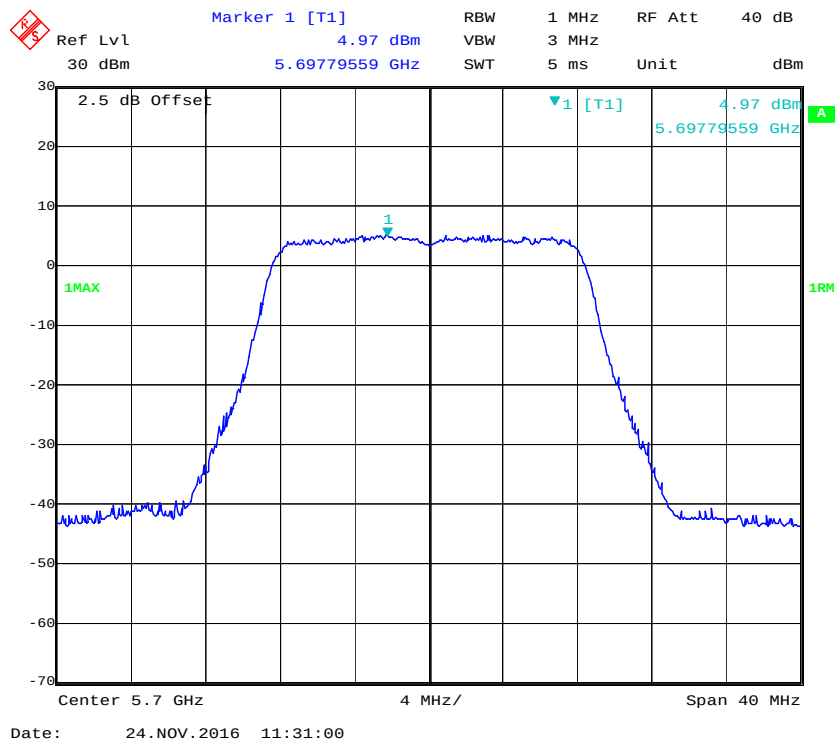
802.11a Low Channel – Chain1



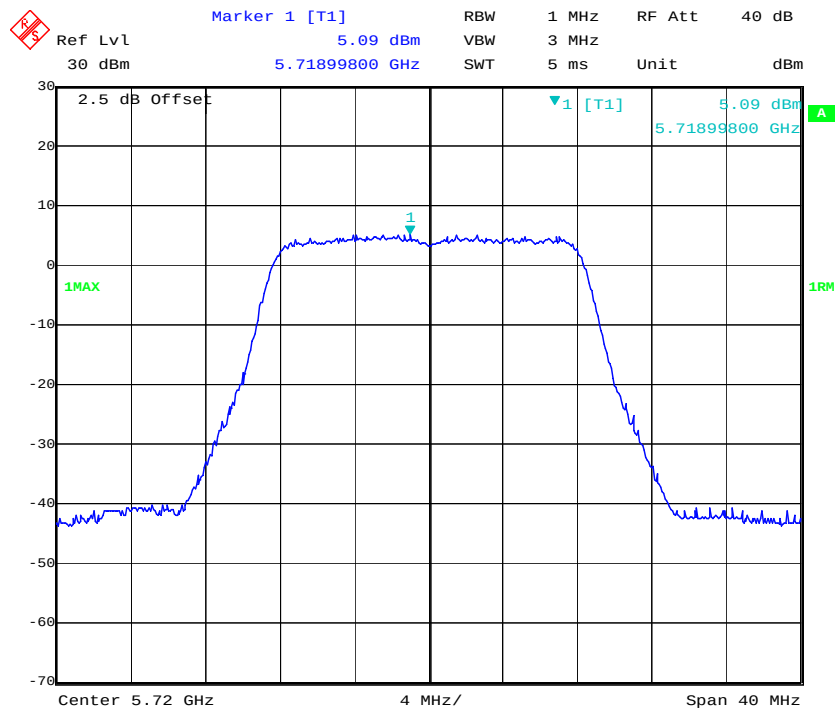
802.11a Middle Channel – Chain1



802.11a High Channel – Chain1

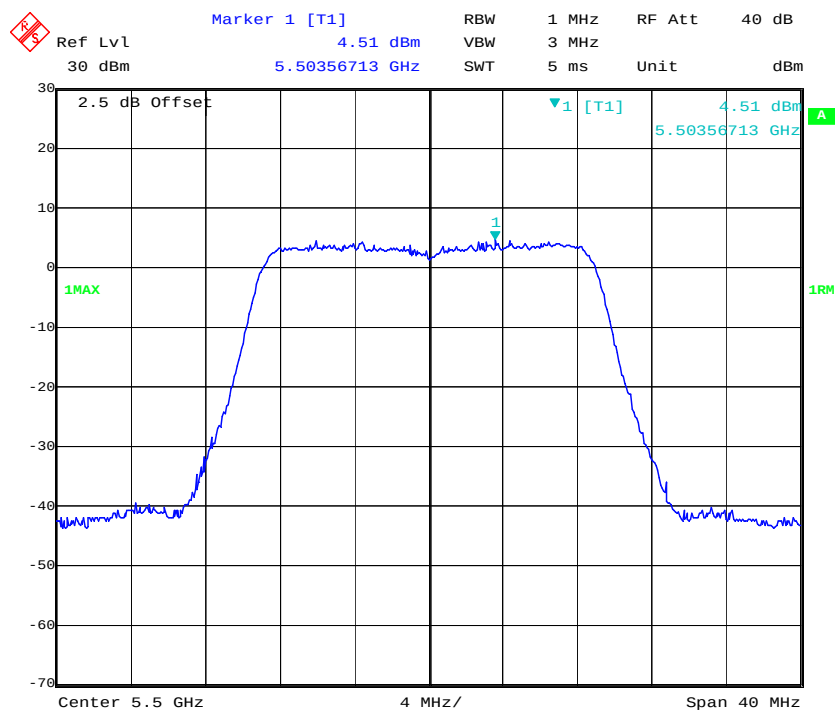


802.11a Cross Channel – Chain1



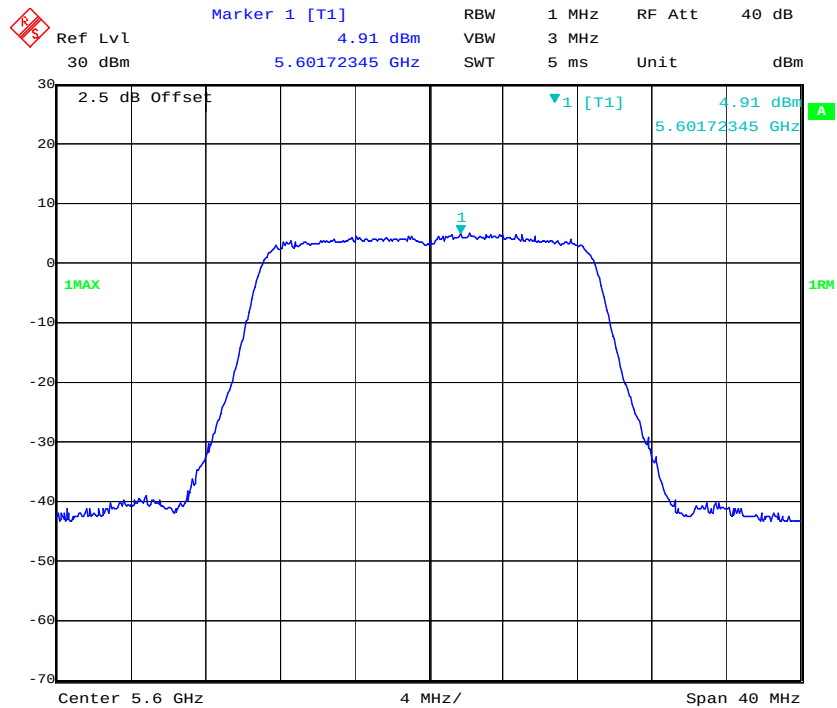
Date: 24.NOV.2016 15:36:59

802.11n ht20 Low Channel – Chain1

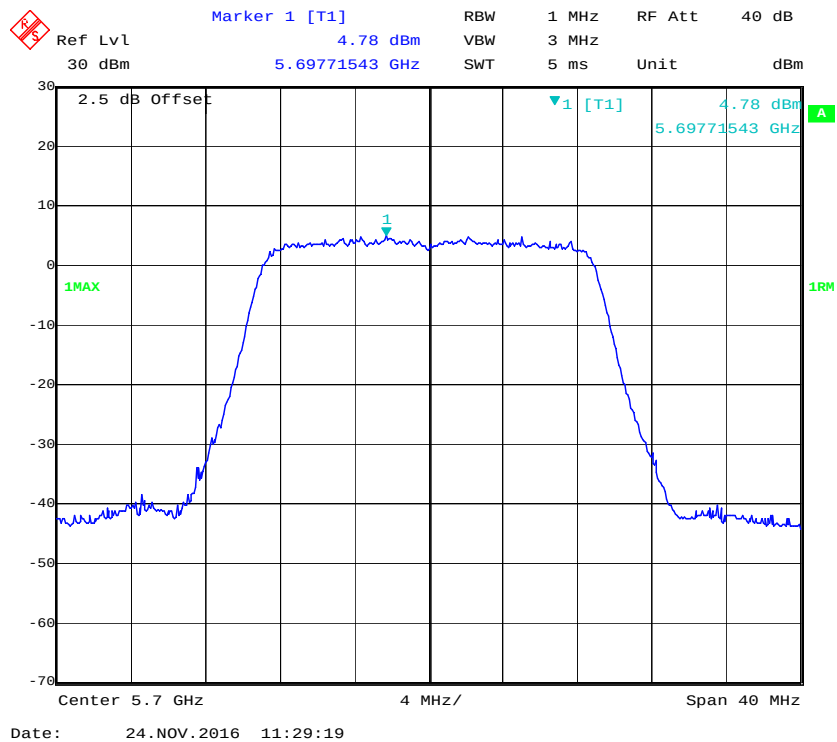


Date: 24.NOV.2016 11:27:44

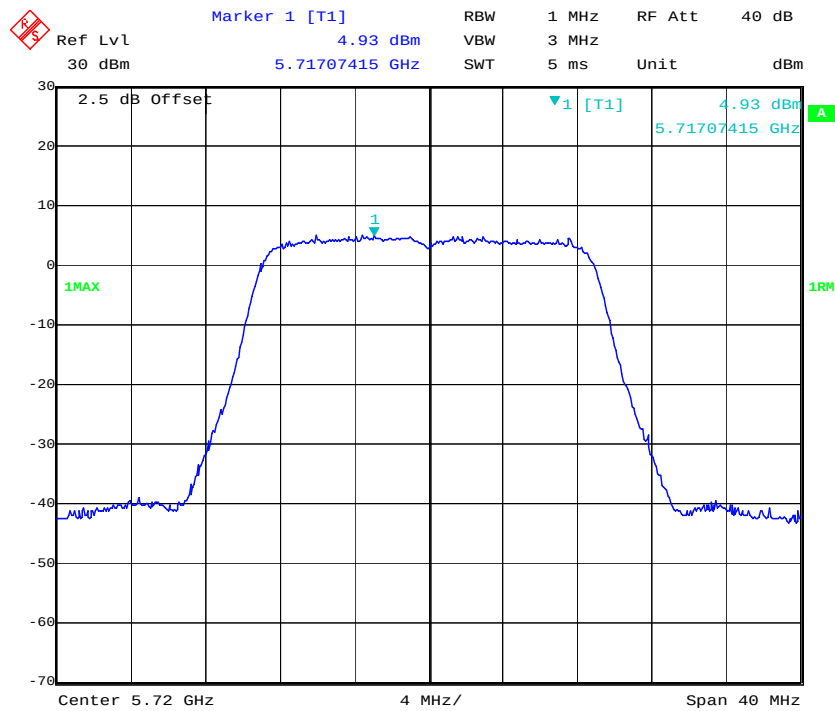
802.11n ht20 Middle Channel – Chain1



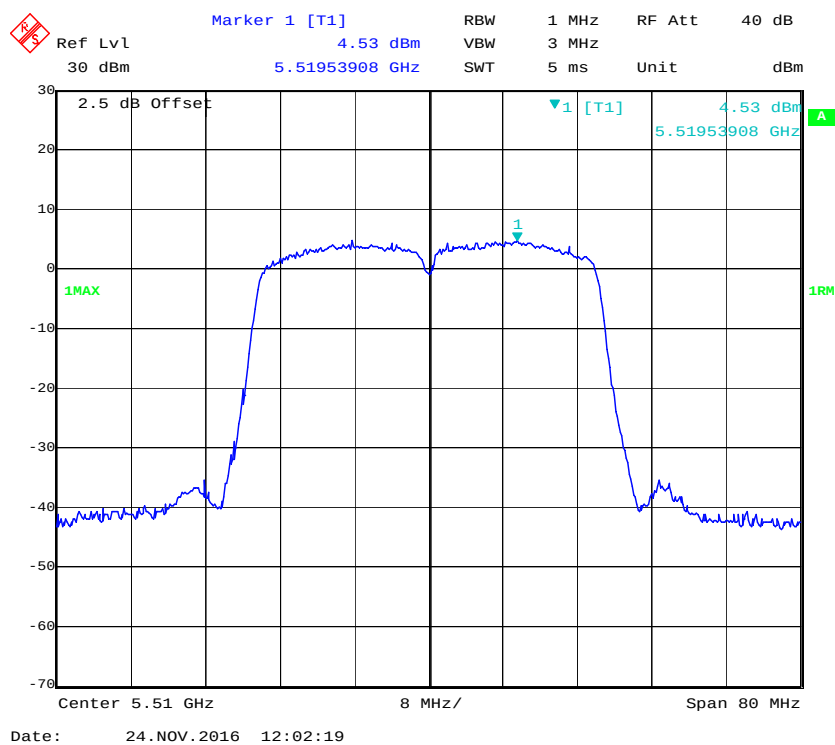
802.11n ht20 High Channel – Chain1



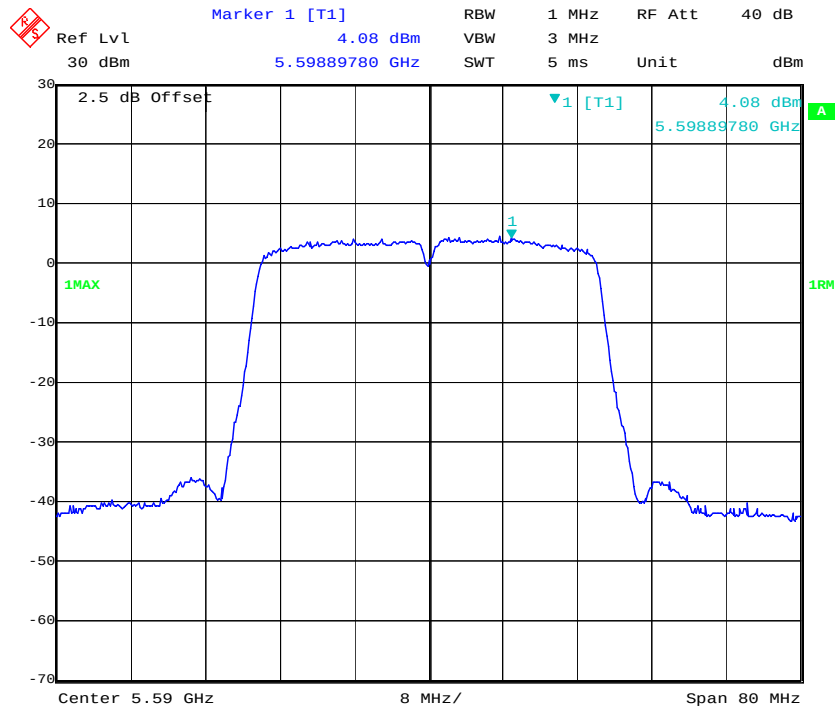
802.11n ht20 Cross Channel – Chain1



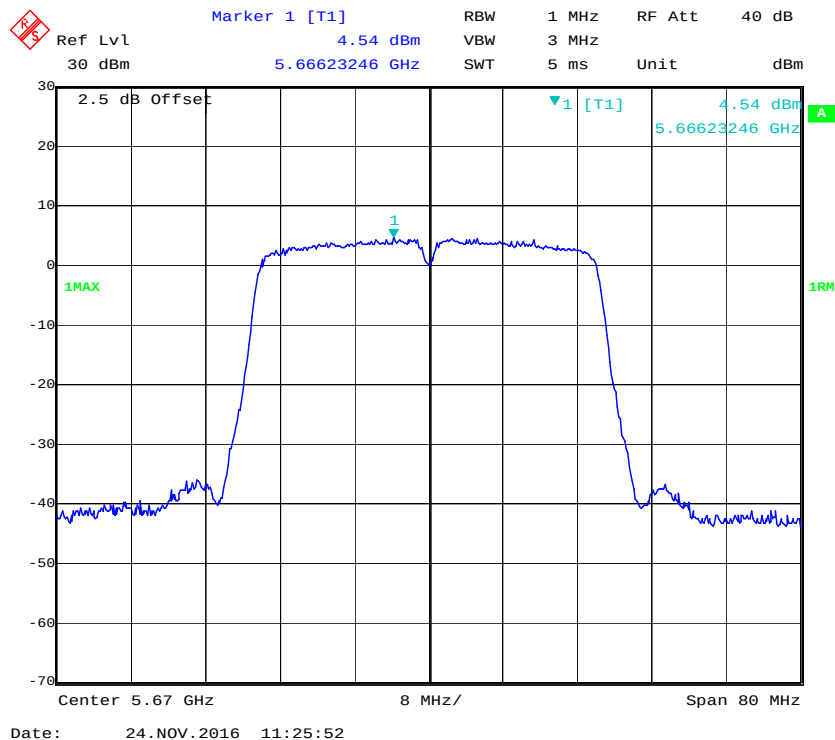
802.11n ht40 Low Channel – Chain1



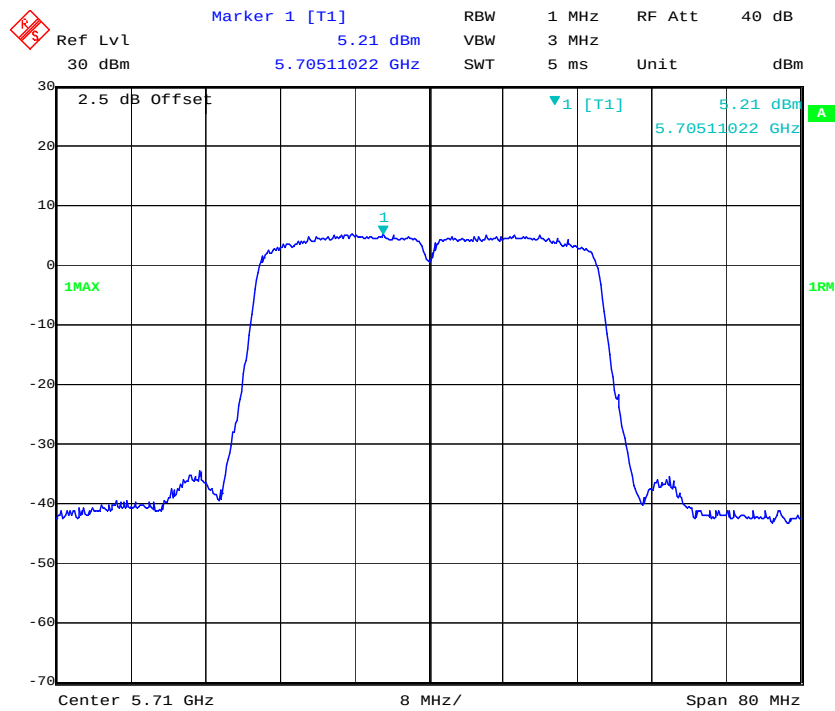
802.11n ht40 Middle Channel – Chain1



802.11n ht40 High Channel – Chain1

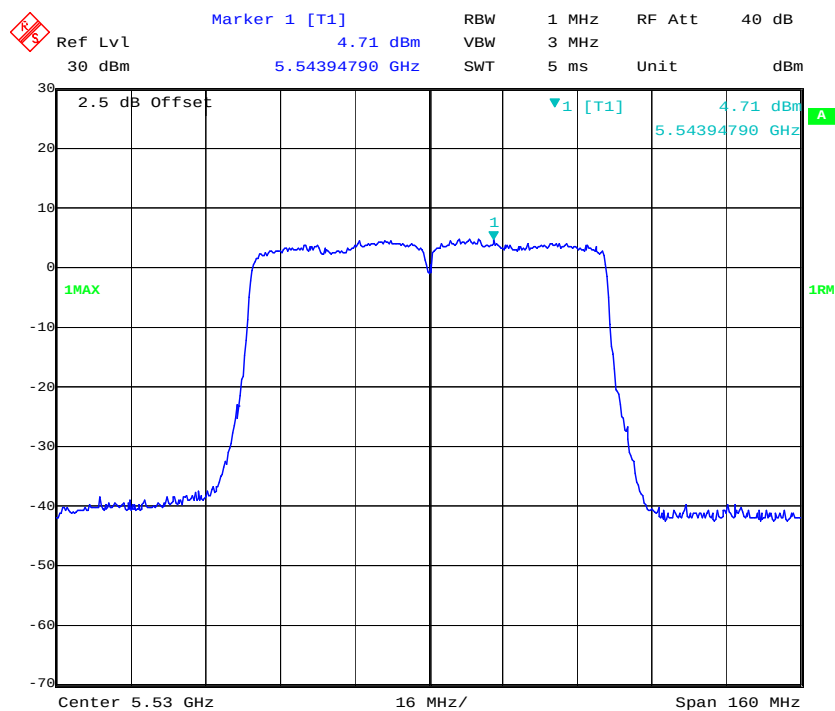


802.11n ht40 Cross Channel – Chain1



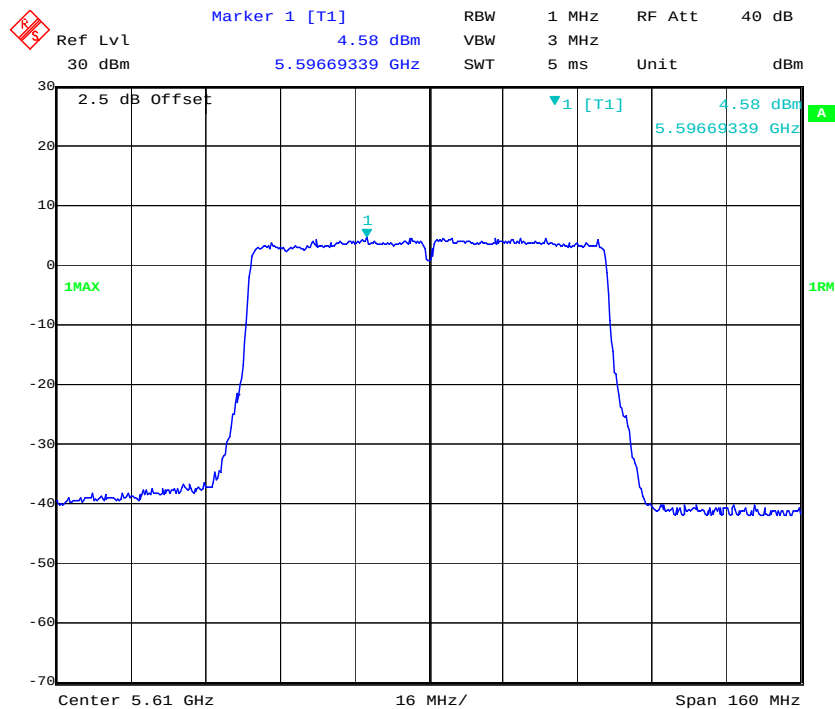
Date: 28.NOV.2016 13:41:16

802.11 ac80 Low Channel – Chain1



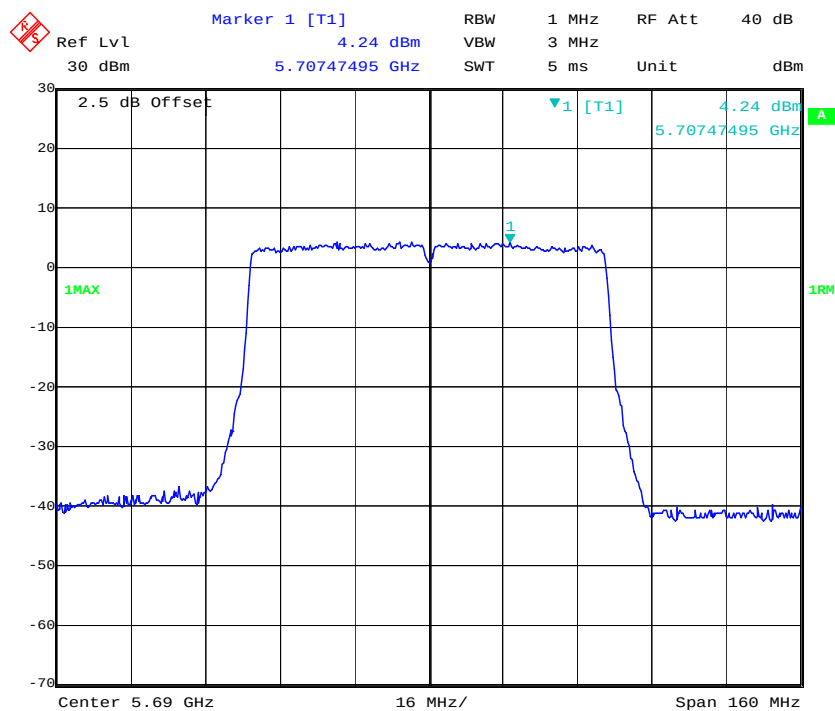
Date: 24.NOV.2016 11:15:07

802.11 ac80 High Channel – Chain1



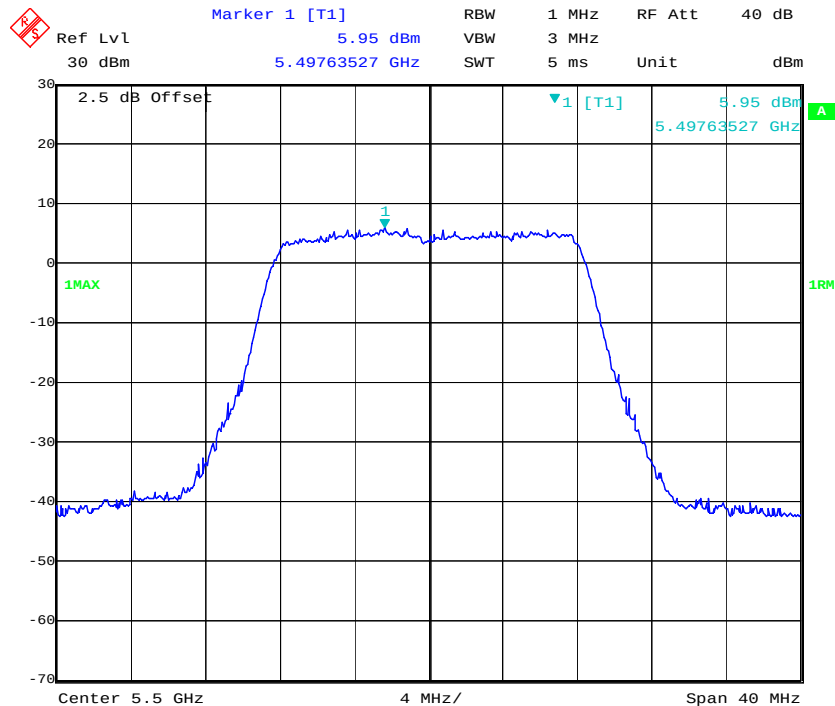
Date: 24.NOV.2016 15:16:54

802.11 ac80 Cross Channel – Chain1

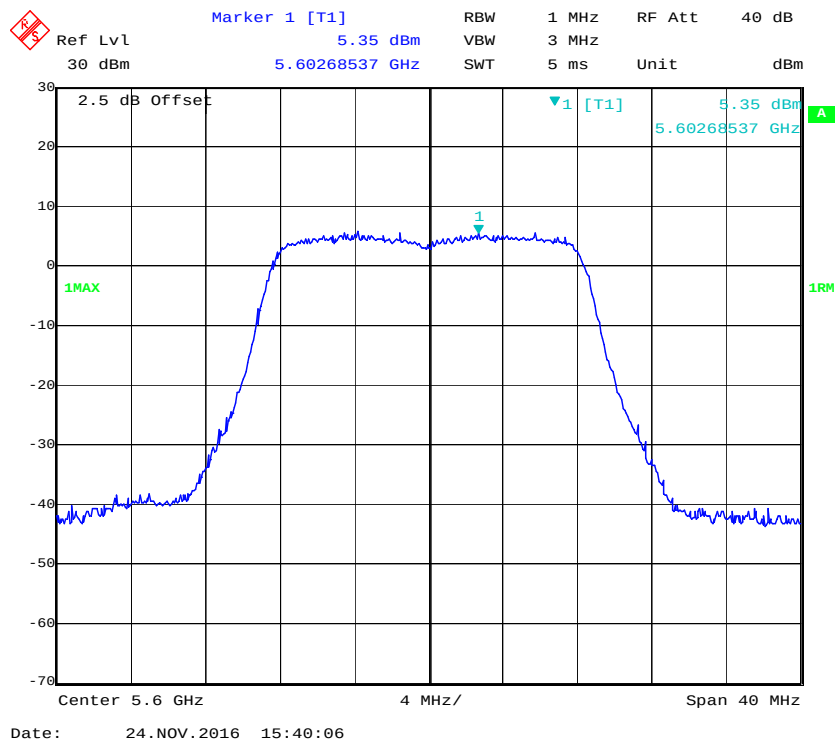


Date: 24.NOV.2016 11:13:36

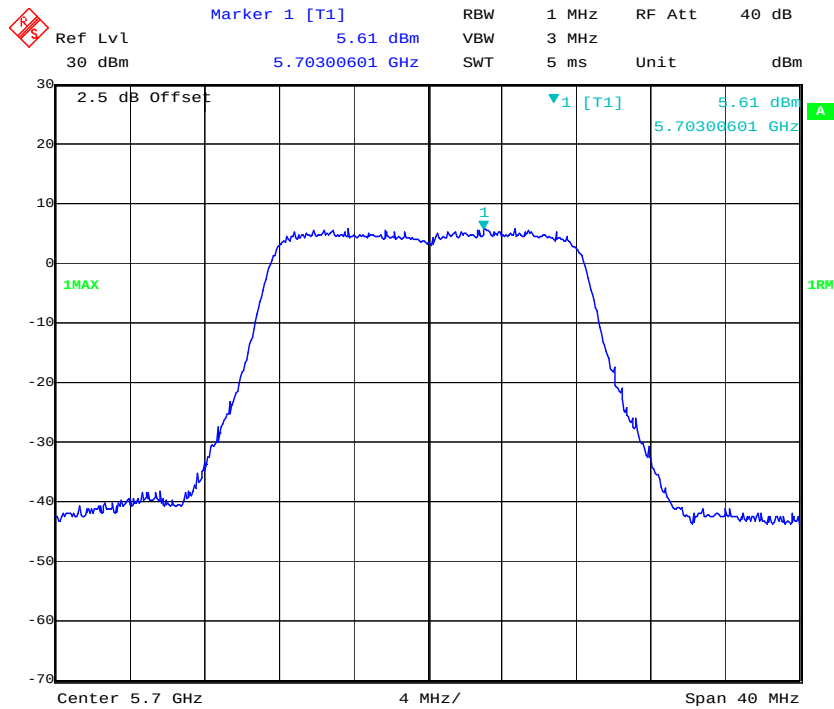
802.11a Low Channel – Chain2



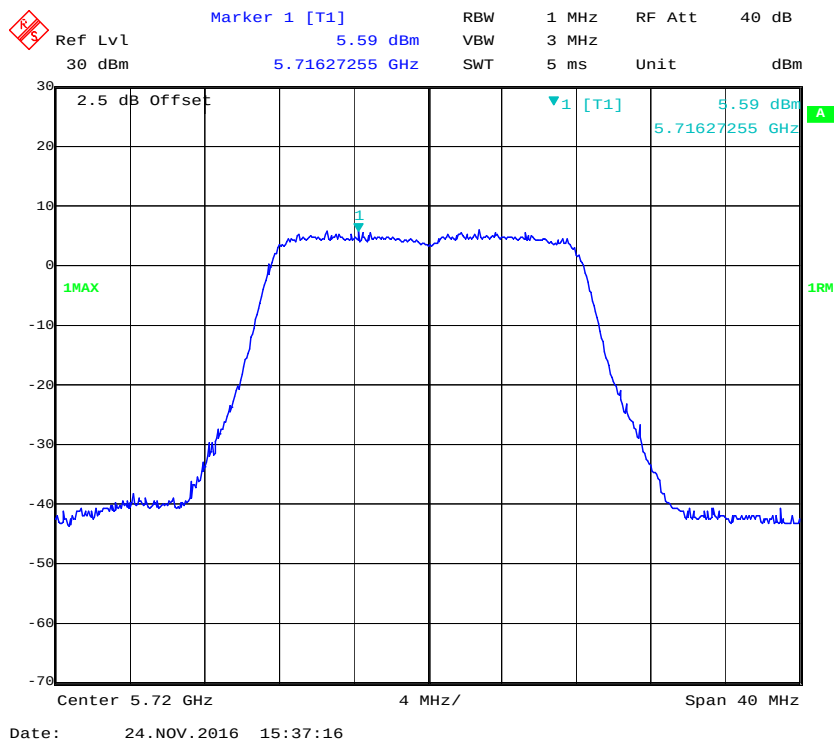
802.11a Middle Channel – Chain2



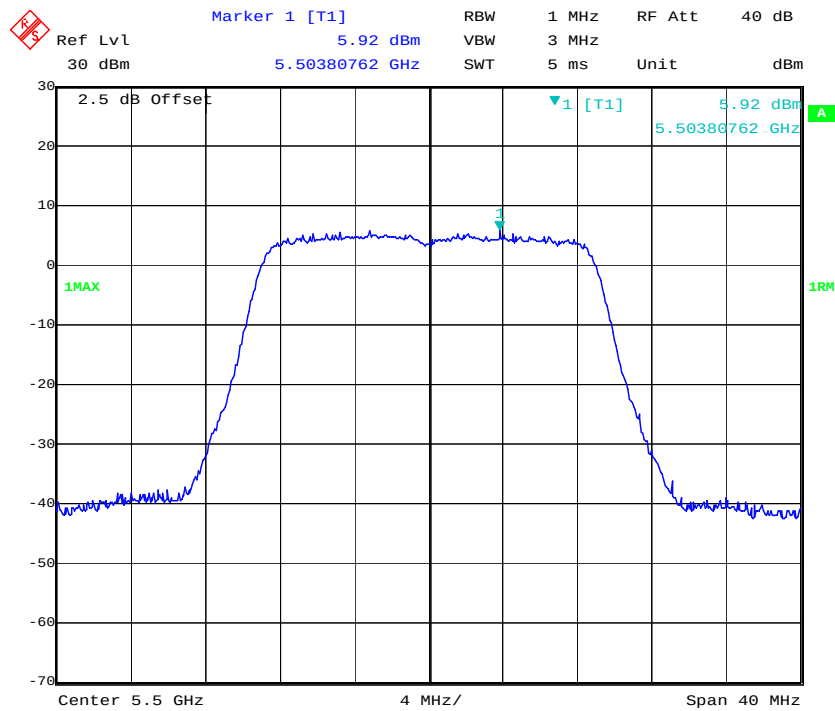
802.11a High Channel – Chain2



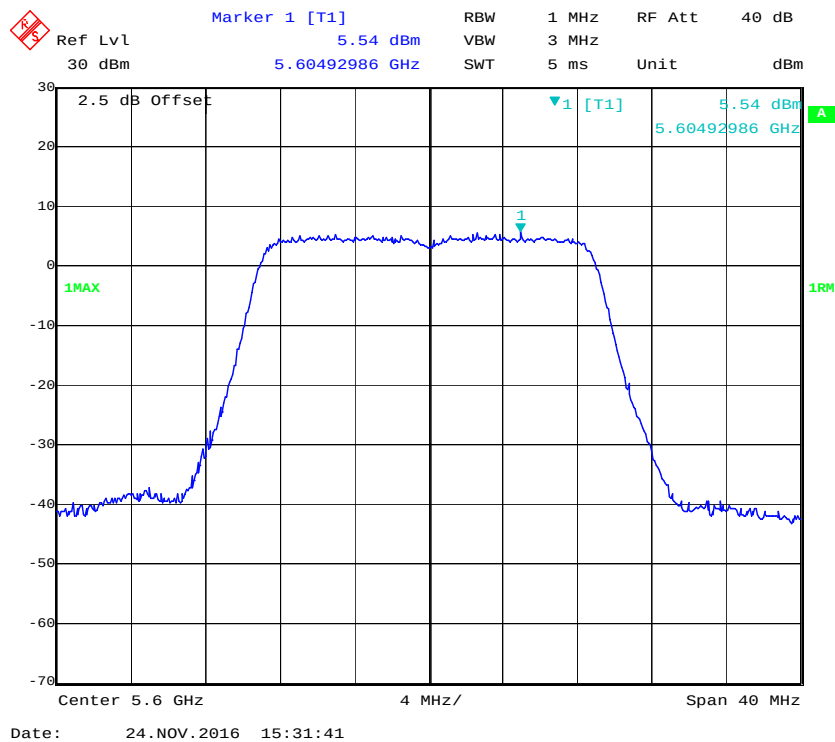
802.11a Cross Channel – Chain2



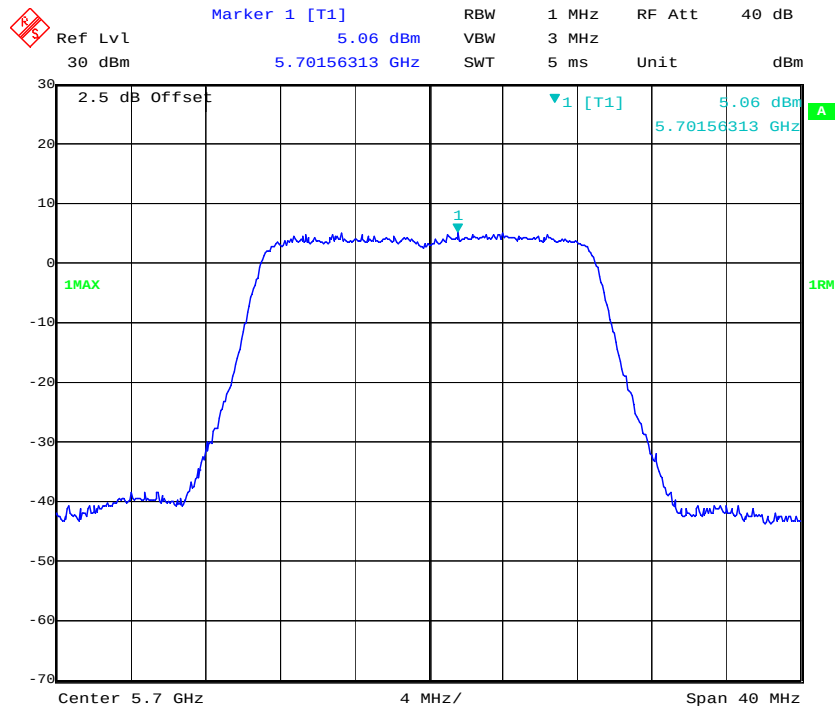
802.11n ht20 Low Channel – Chain2



802.11n ht20 Middle Channel – Chain2

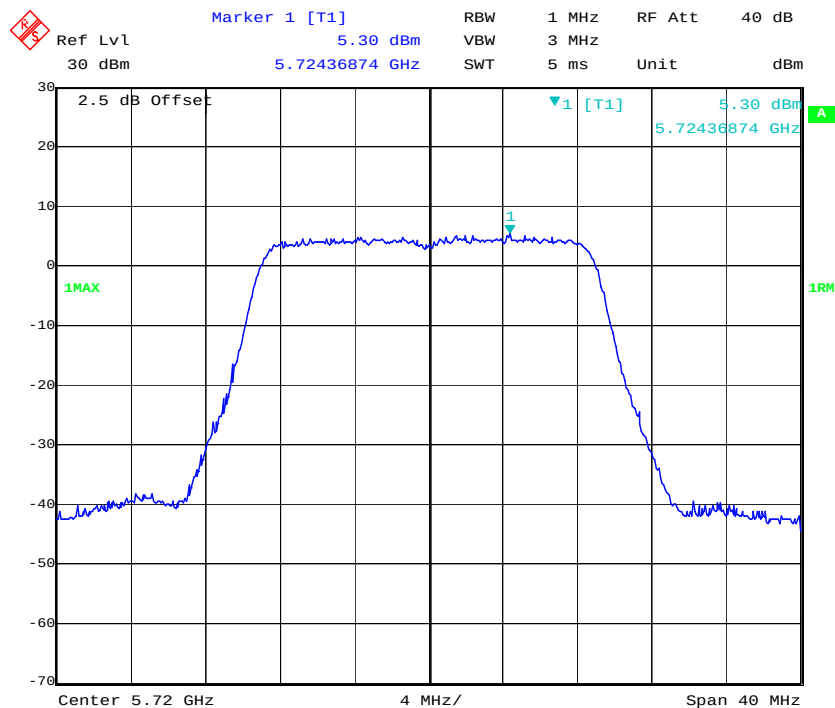


802.11n ht20 Middle Channel – Chain2



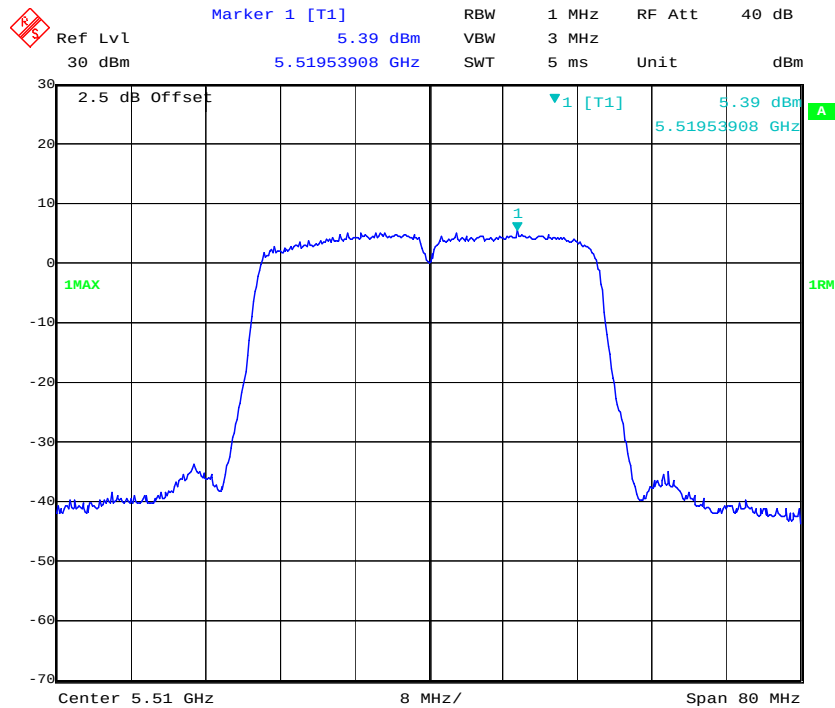
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802.11n ht20 High Channel – Chain2

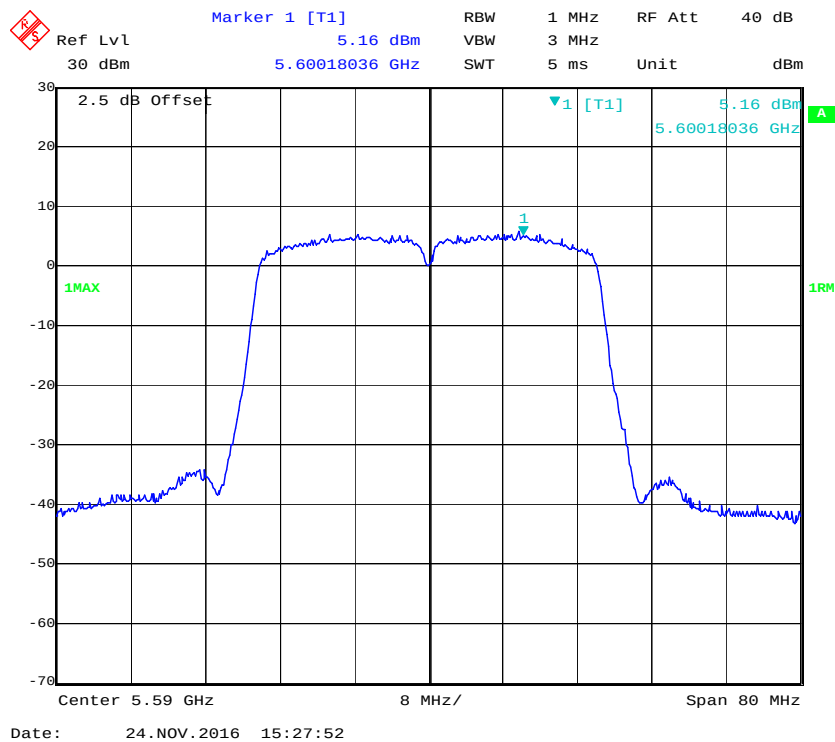


Date: 24.NOV.2016 15:34:13

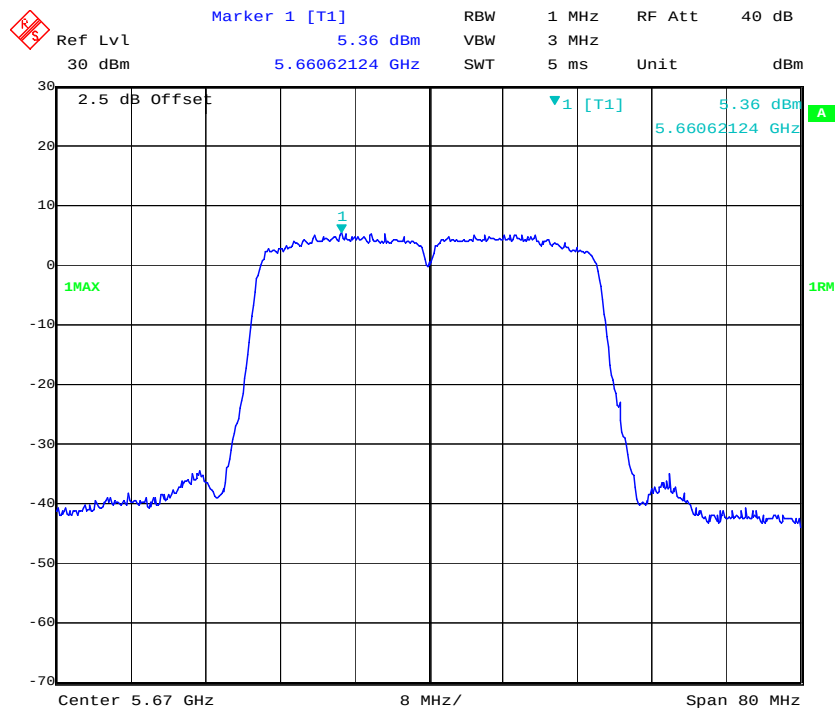
802.11n ht40 Low Channel – Chain2



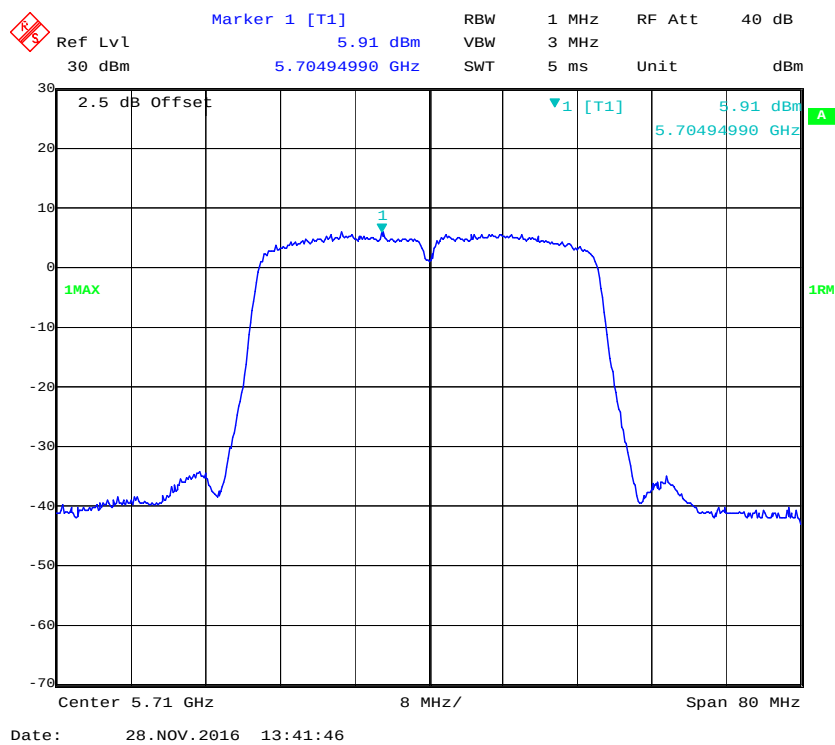
802.11n ht40 Middle Channel – Chain2



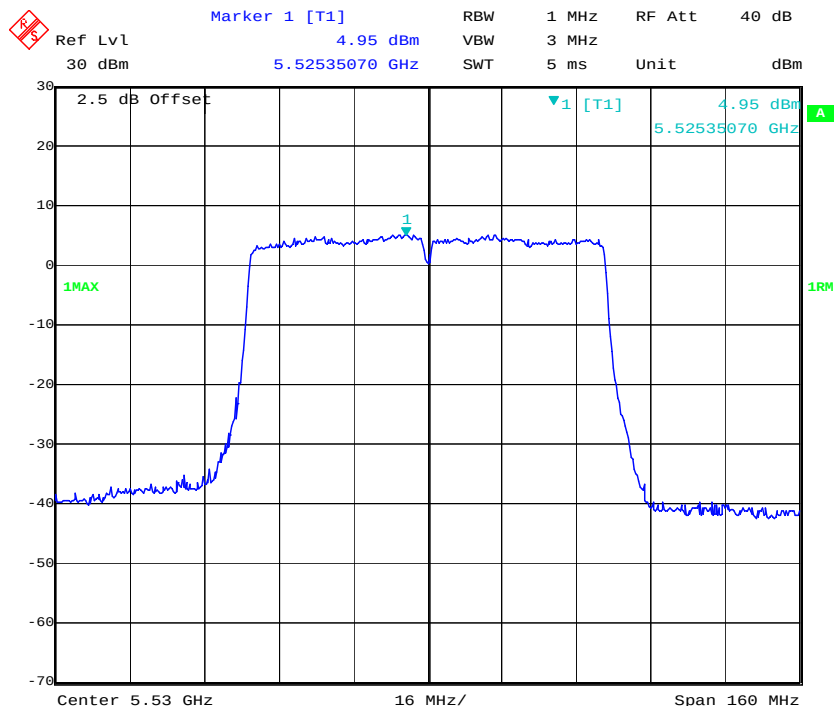
802.11n ht40 High Channel – Chain2



802.11n ht40 Cross Channel – Chain2

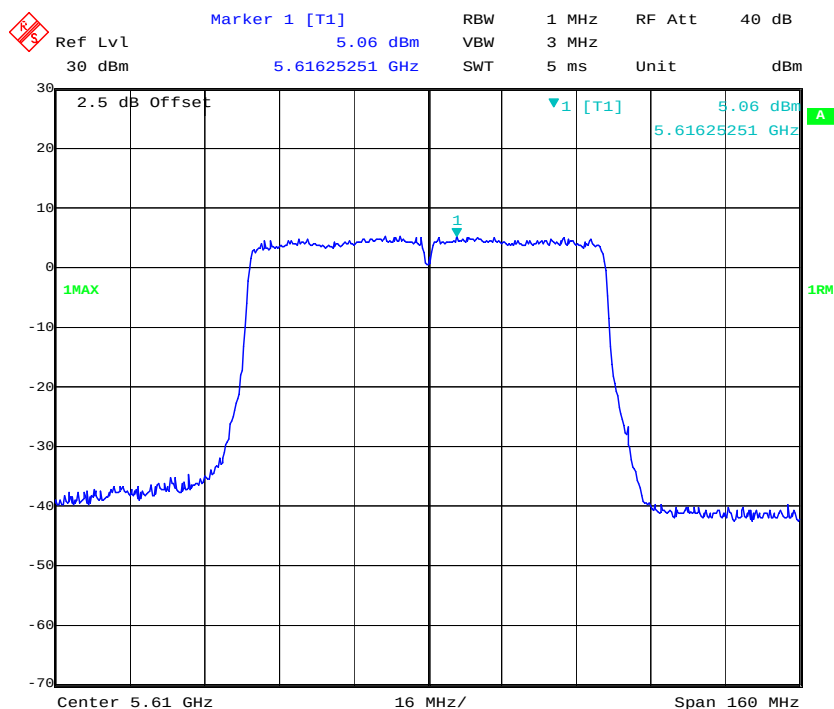


802.11 ac80 Low Channel – Chain2



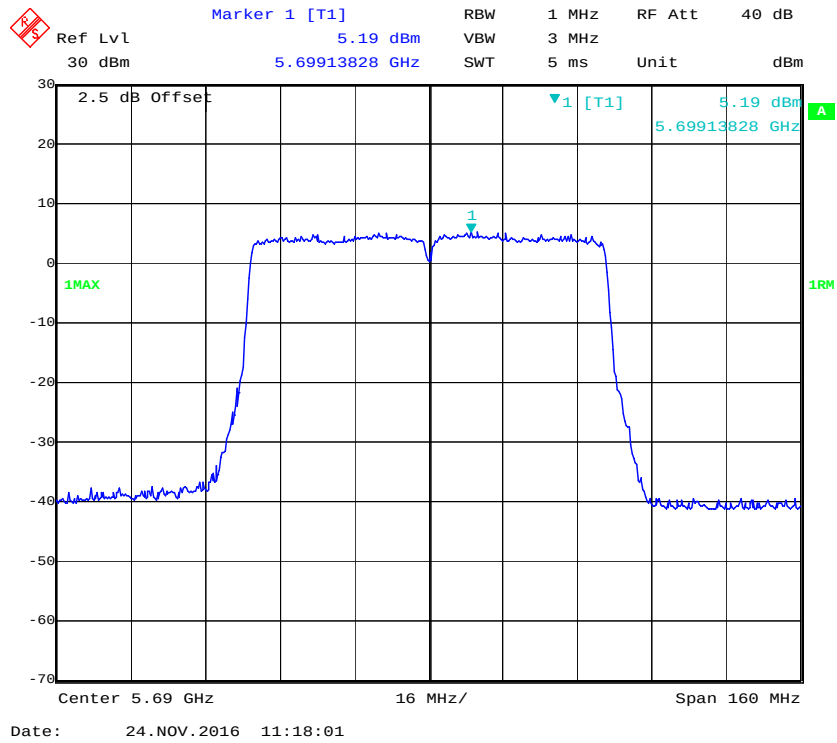
Date: 24.NOV.2016 11:16:39

802.11 ac80 High Channel – Chain2



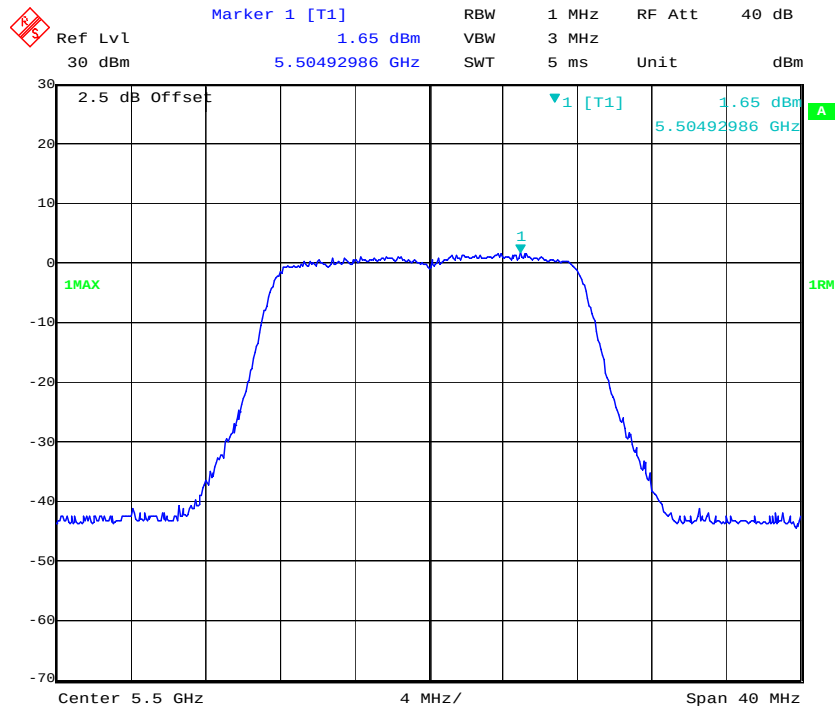
Date: 24.NOV.2016 15:17:56

802.11 ac80 Cross Channel – Chain2

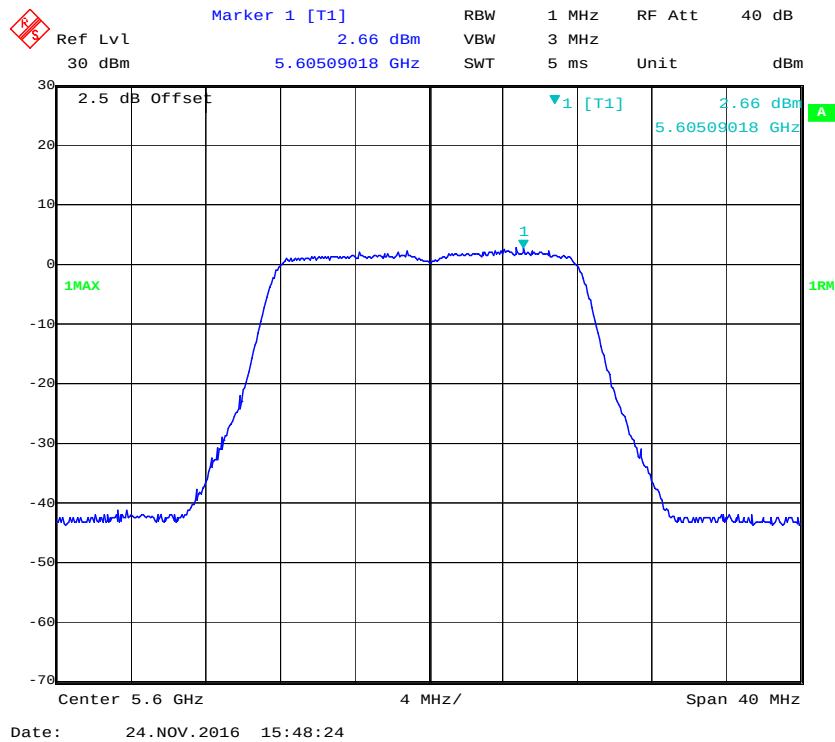


MIMO-4T4R:

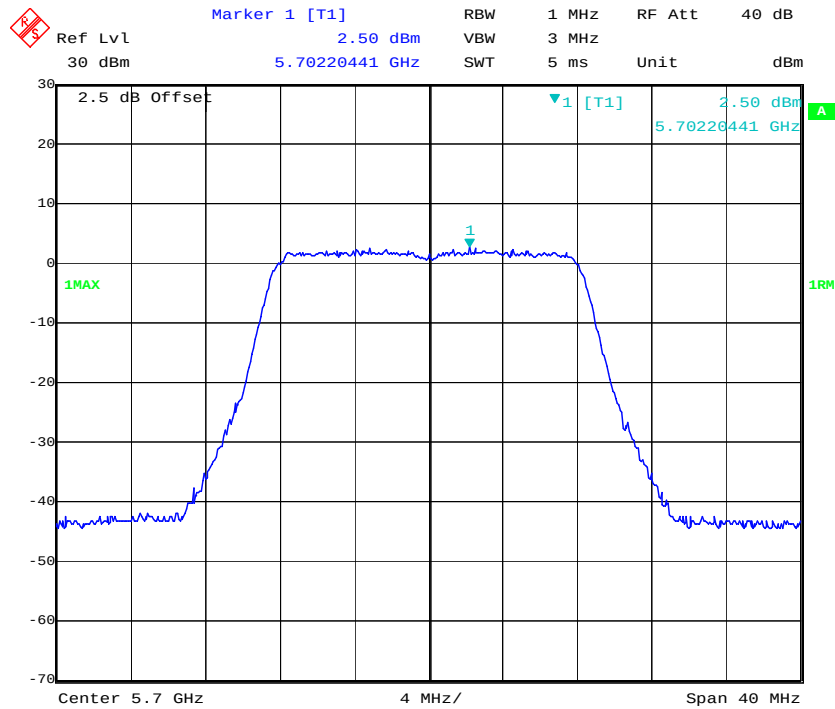
802.11a Low Channel – Chain0



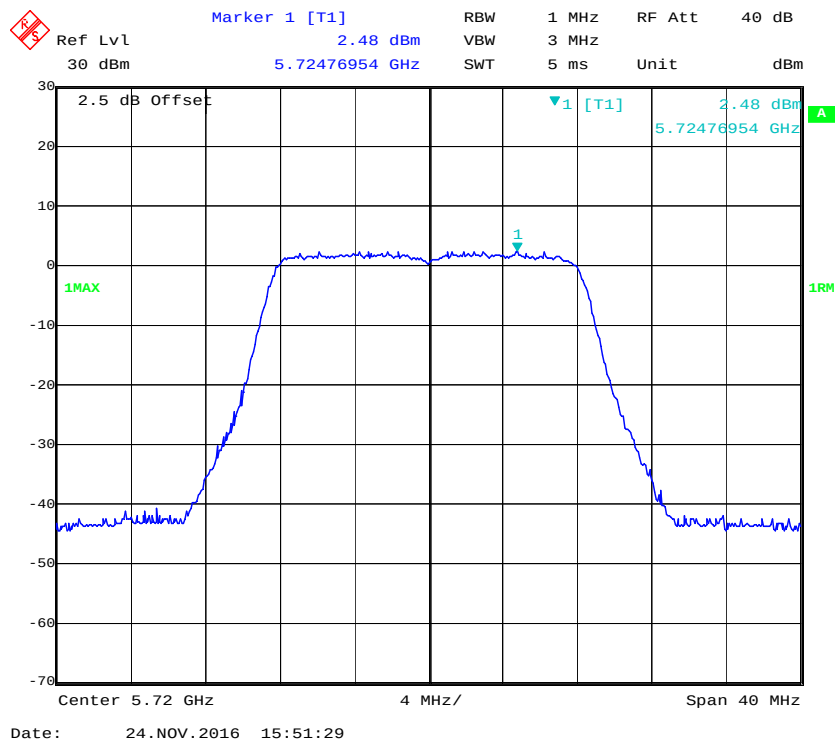
802.11a Middle Channel – Chain0



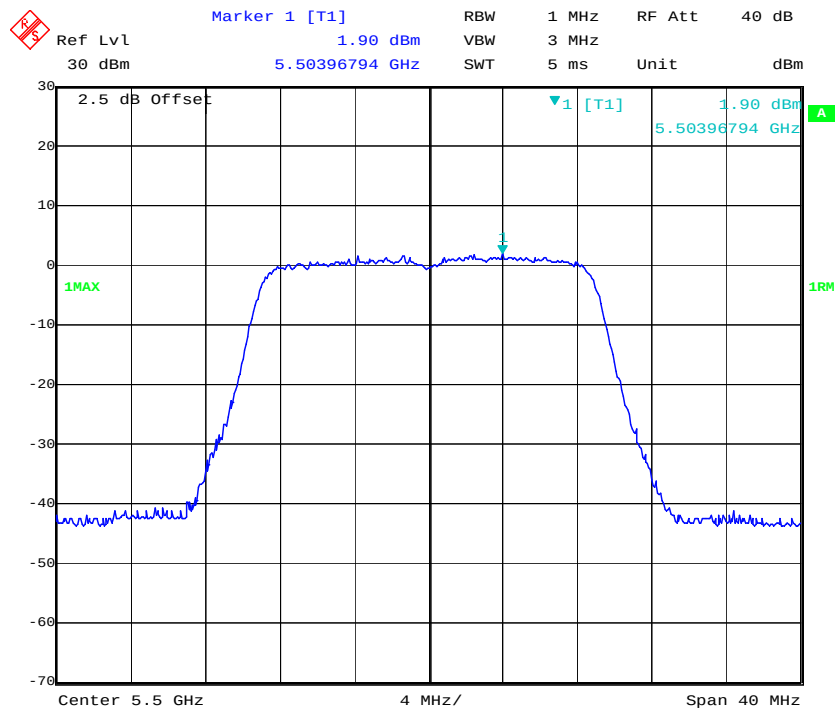
802.11a High Channel – Chain0



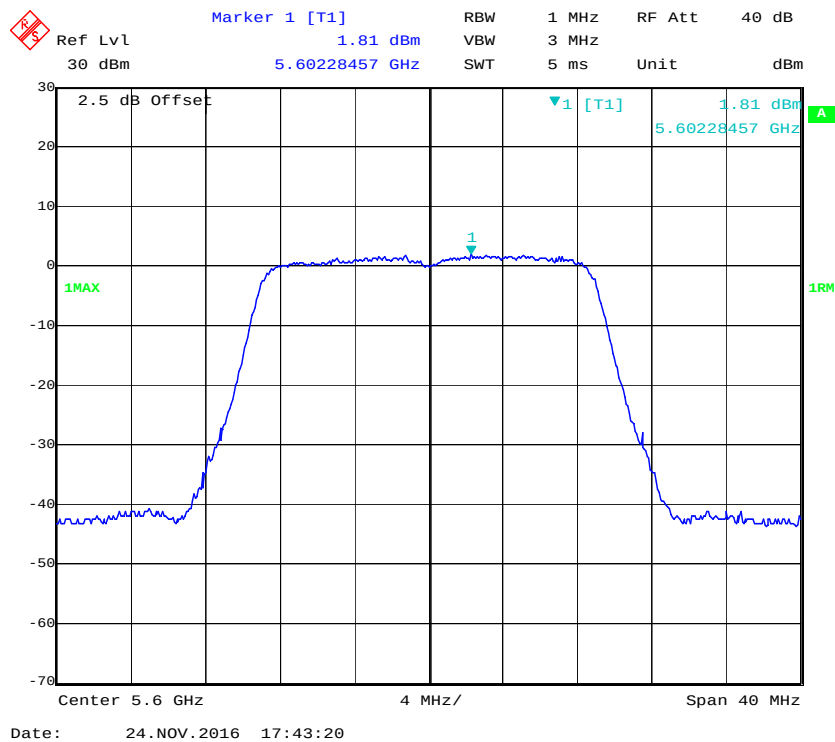
802.11a Cross Channel – Chain0



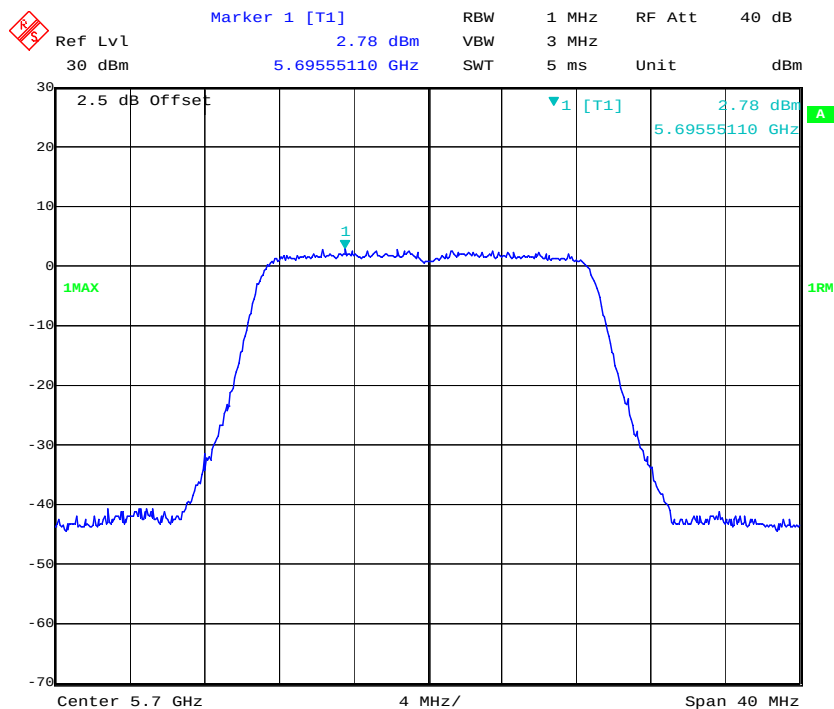
802.11n ht20 Low Channel – Chain0



802.11n ht20 Middle Channel – Chain0

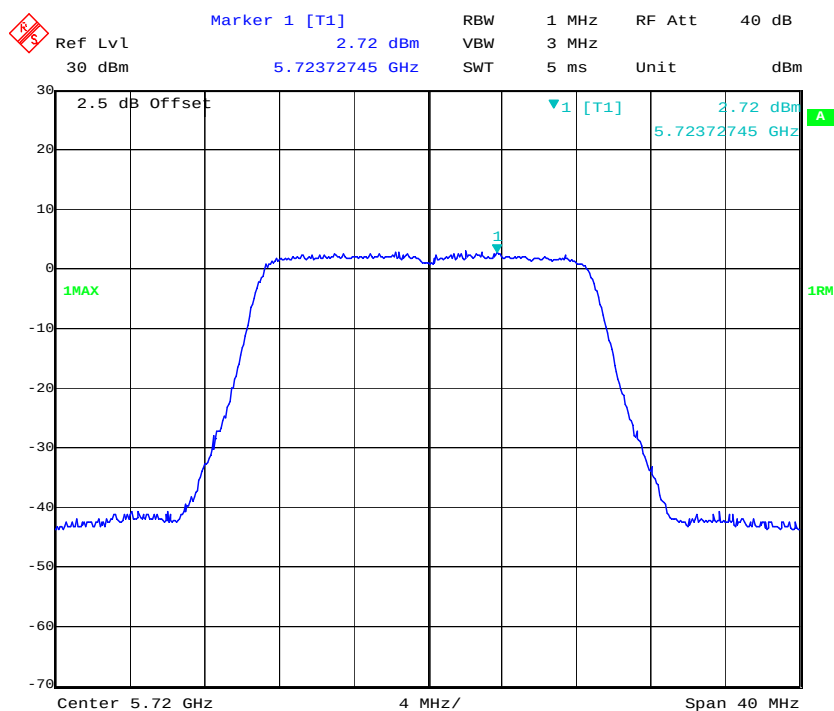


802.11n ht20 High Channel – Chain0



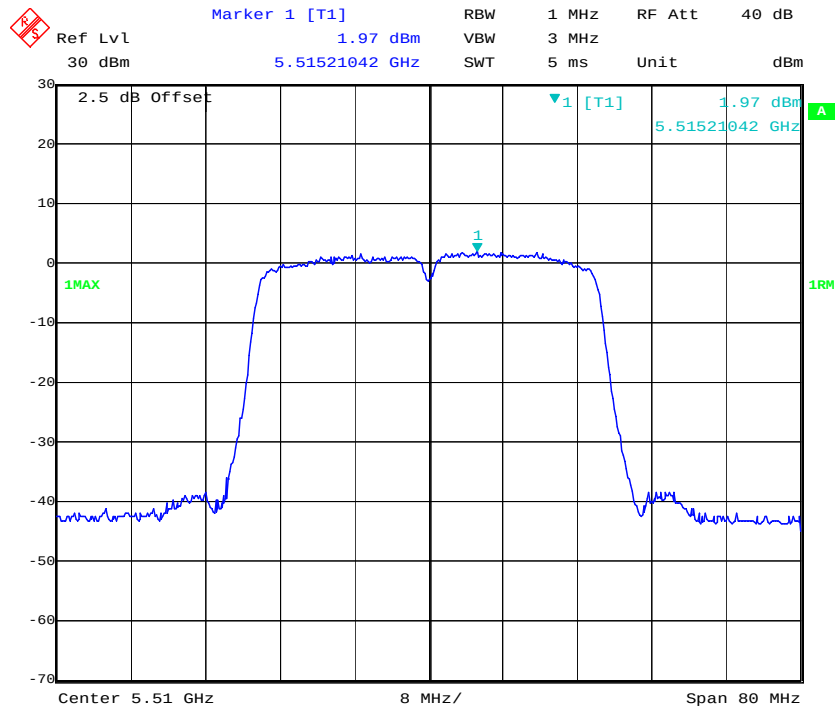
Date: 23.NOV.2016 21:05:06

802.11n ht20 Cross Channel – Chain0

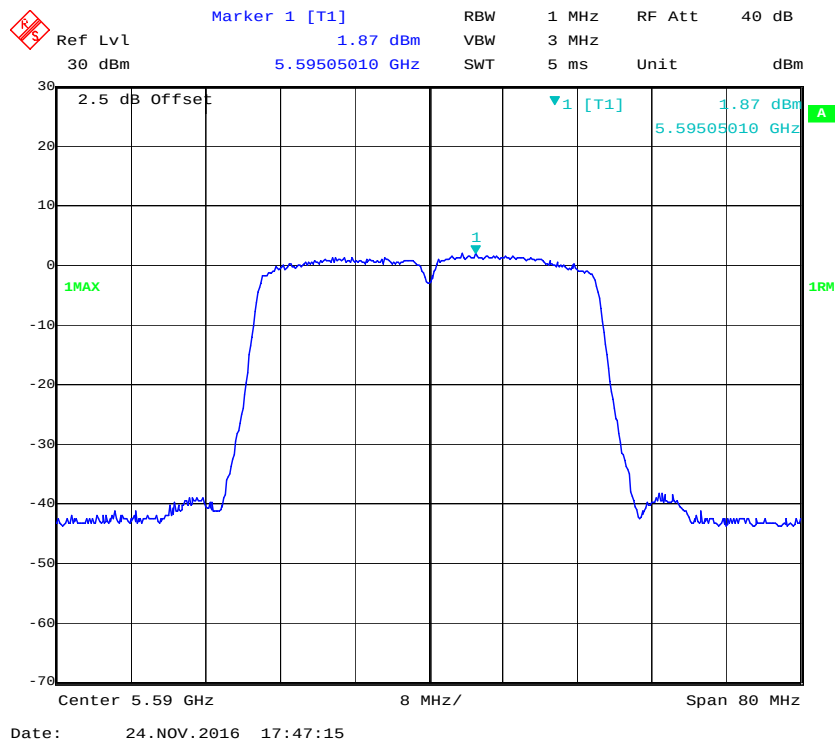


Date: 24.NOV.2016 15:53:32

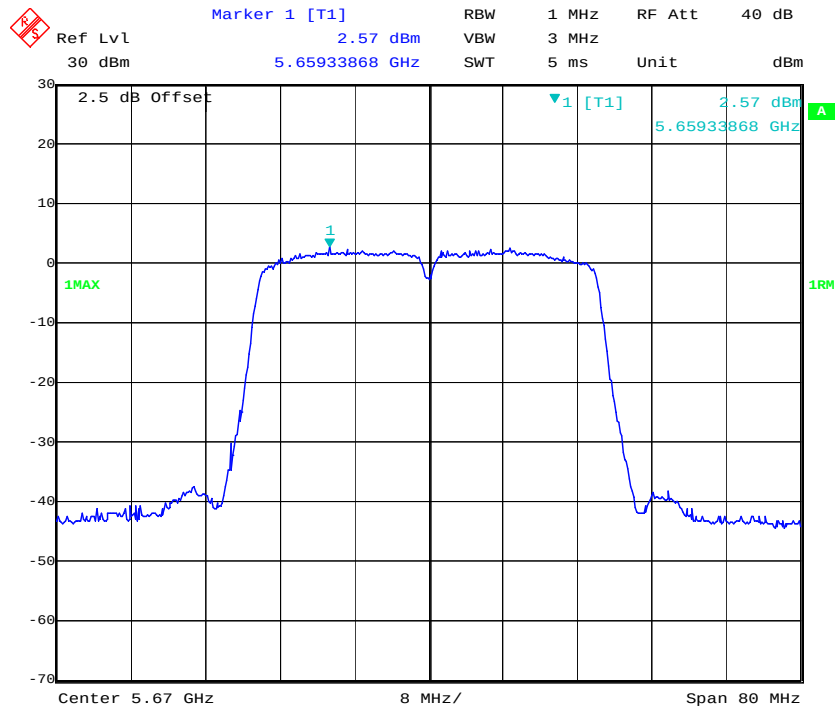
802.11n ht40 Low Channel – Chain0



802.11n ht40 Middle Channel – Chain0

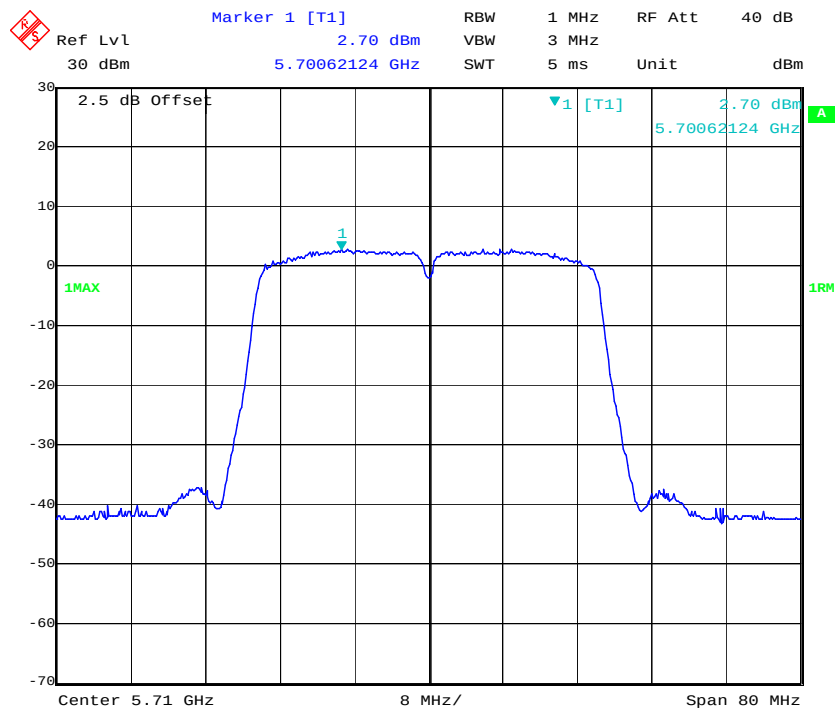


802.11n ht40 High Channel – Chain0



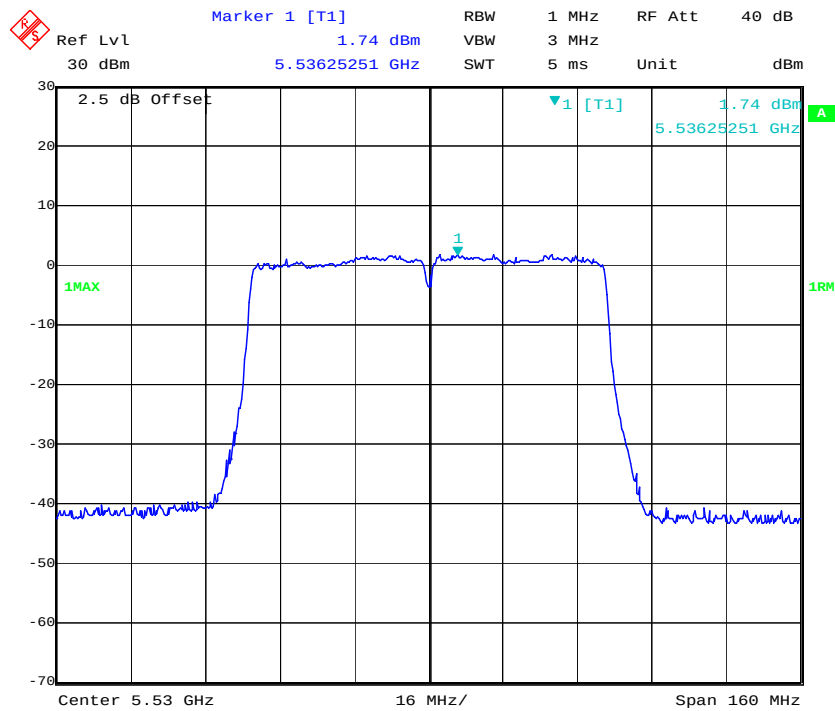
Date: 23.NOV.2016 21:32:52

802.11n ht40 Cross Channel – Chain0

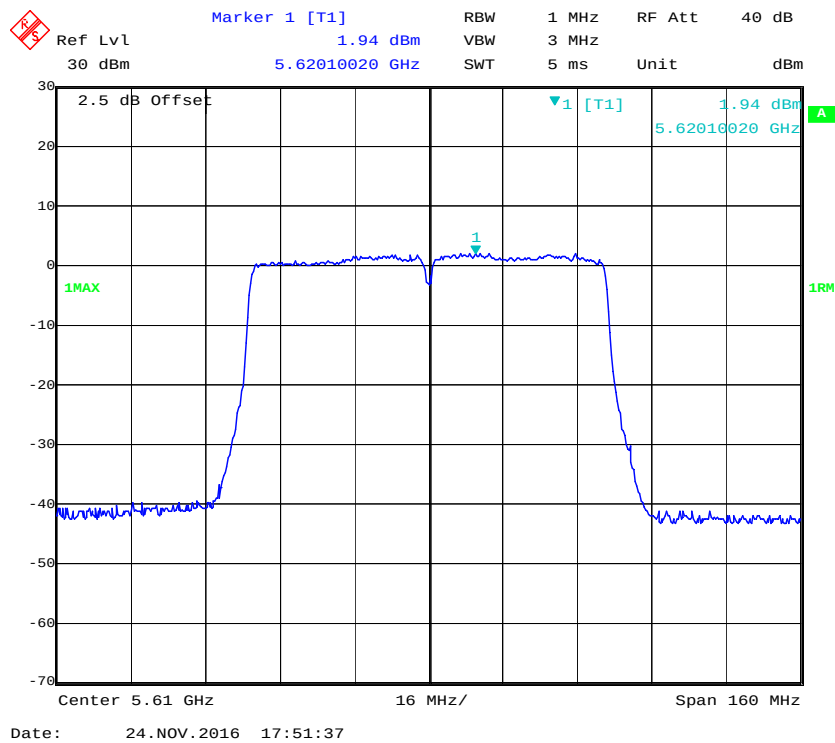


Date: 28.NOV.2016 13:39:49

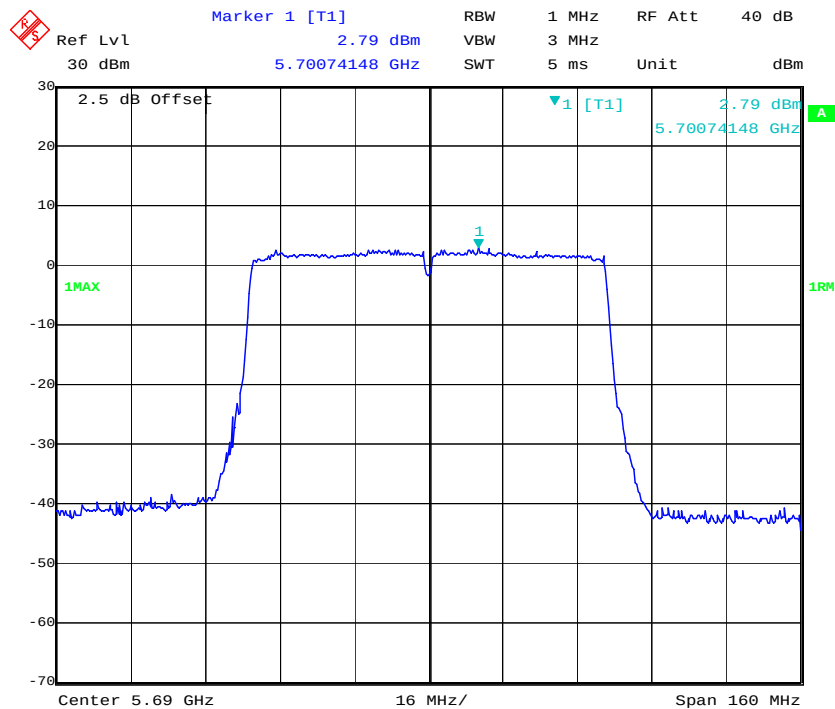
802.11 ac80 Low Channel – Chain0



802.11 ac80 High Channel – Chain0

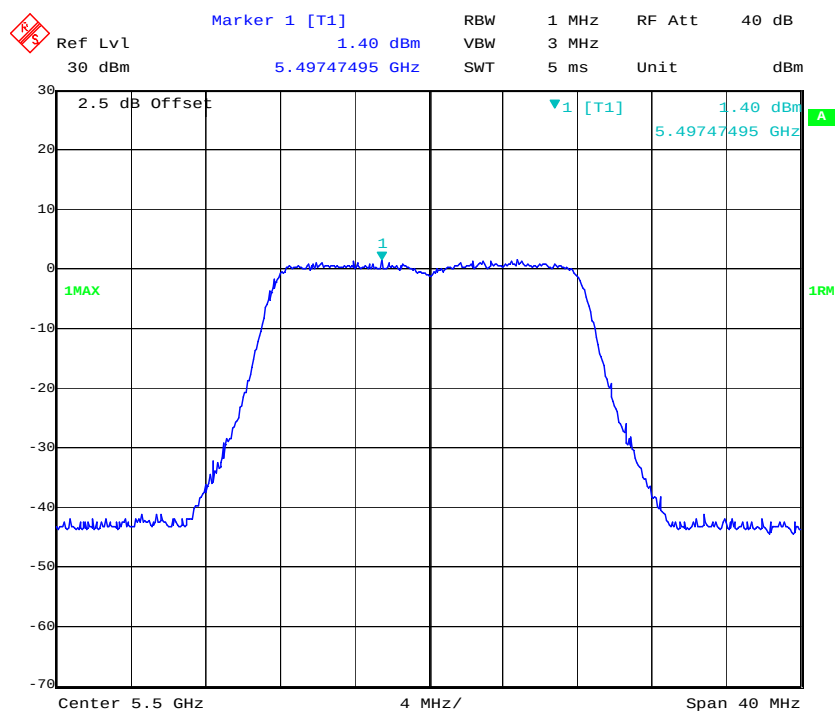


802.11 ac80 Cross Channel – Chain0



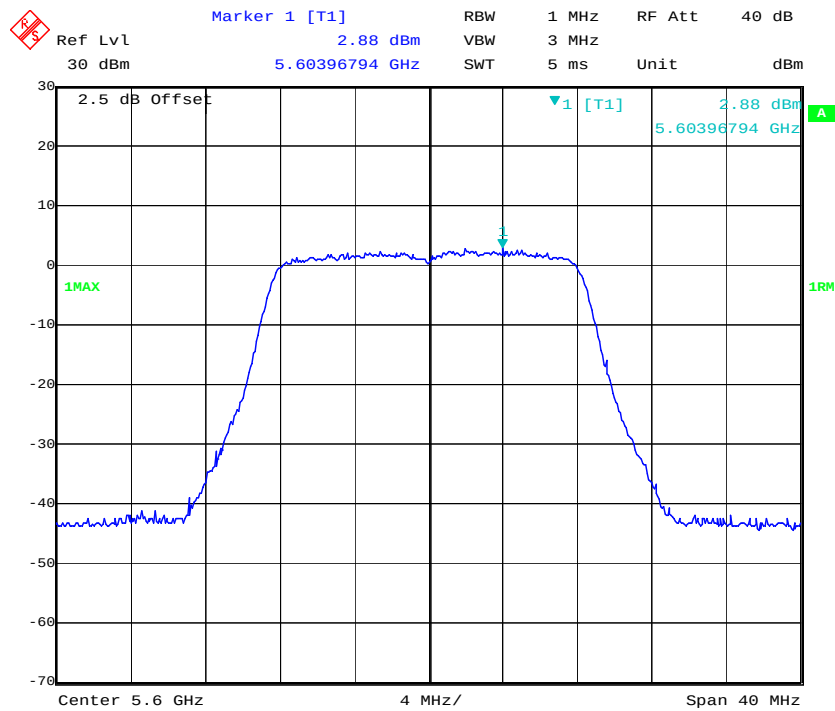
Date: 23.NOV.2016 22:16:28

802.11a Low Channel – Chain1

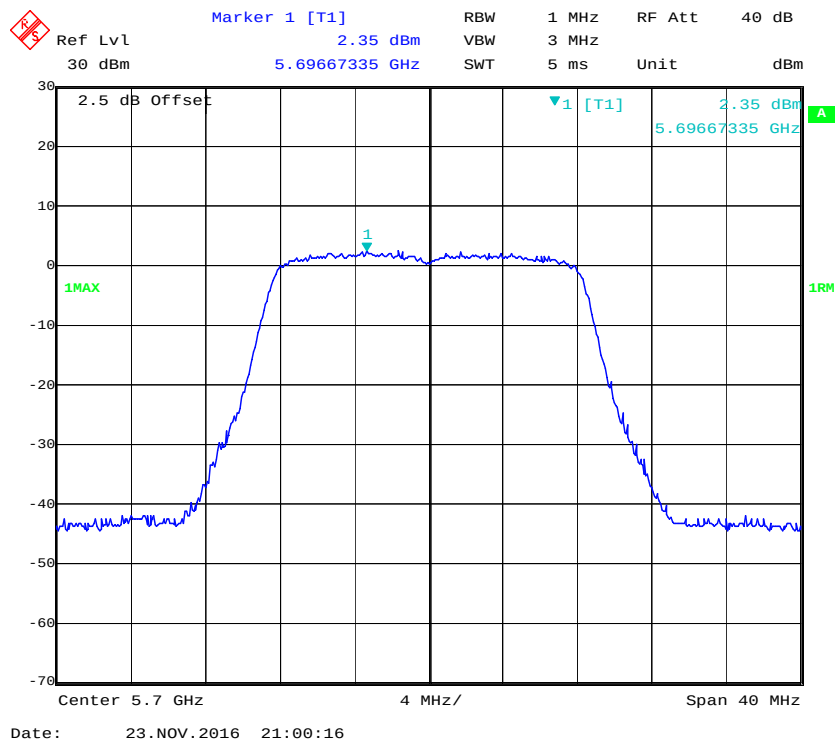


Date: 23.NOV.2016 20:41:49

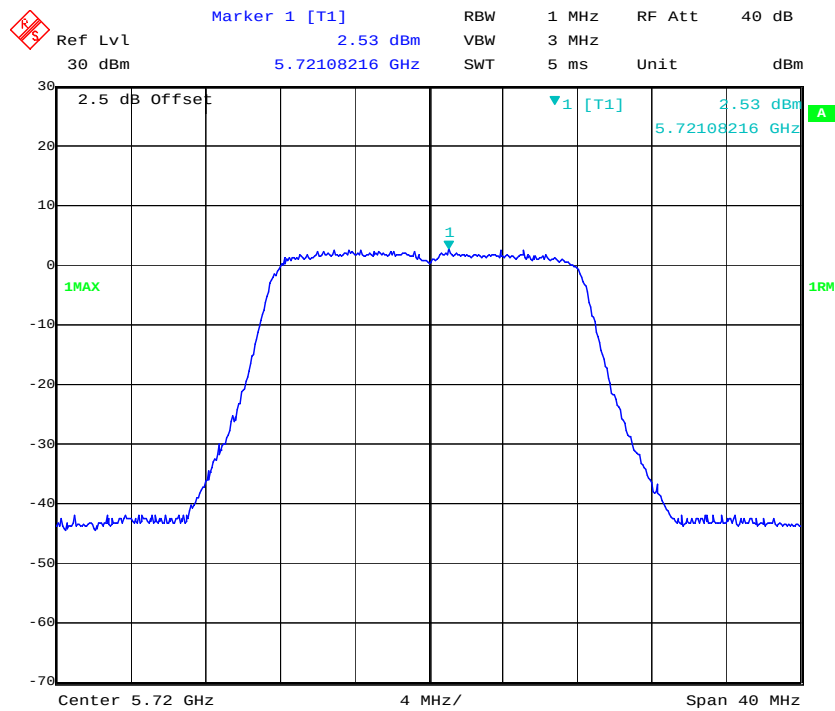
802.11a Middle Channel – Chain1



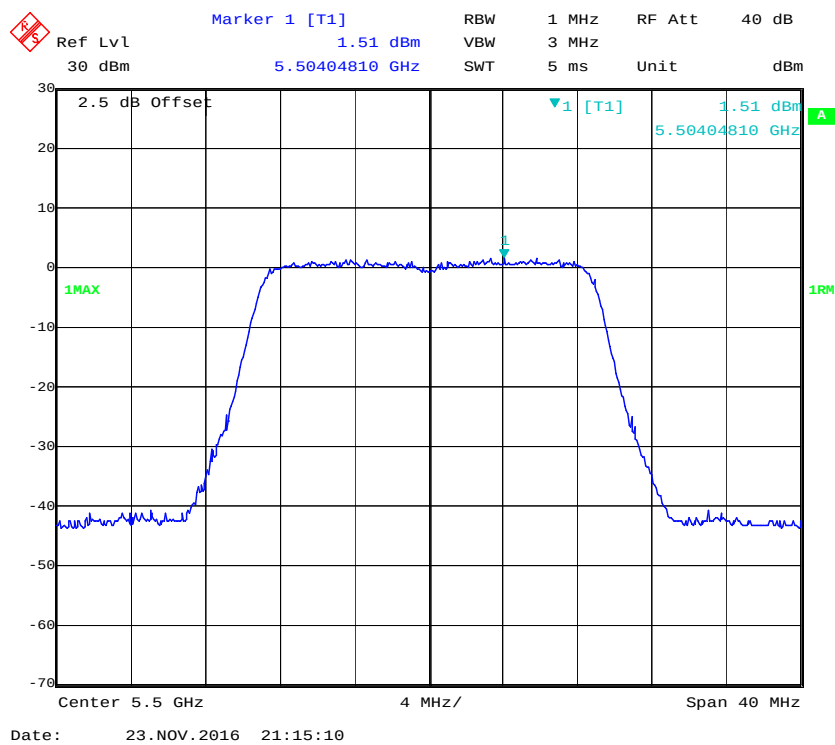
802.11a High Channel – Chain1



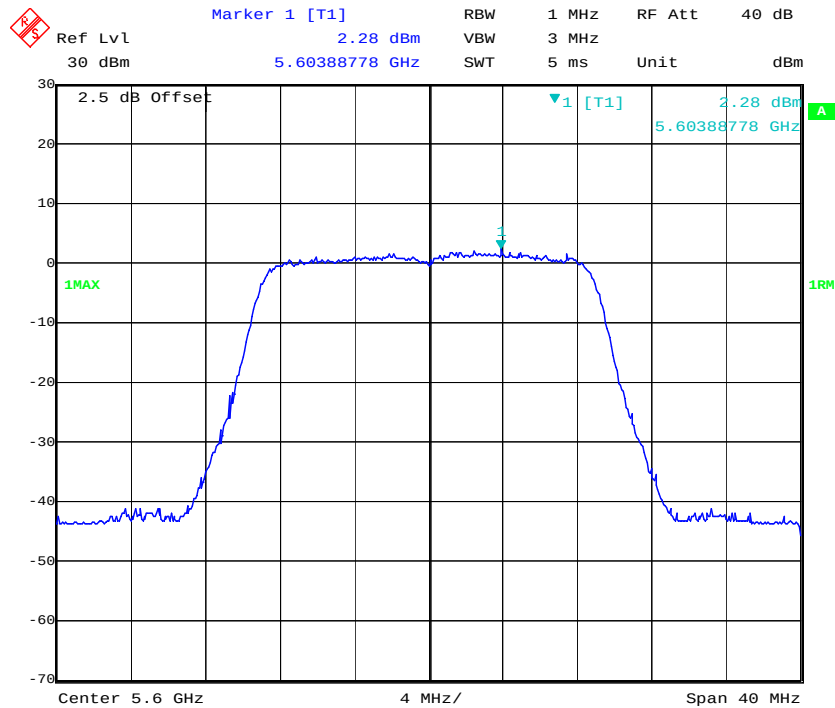
802.11a Cross Channel – Chain1



802.11n ht20 Low Channel – Chain1

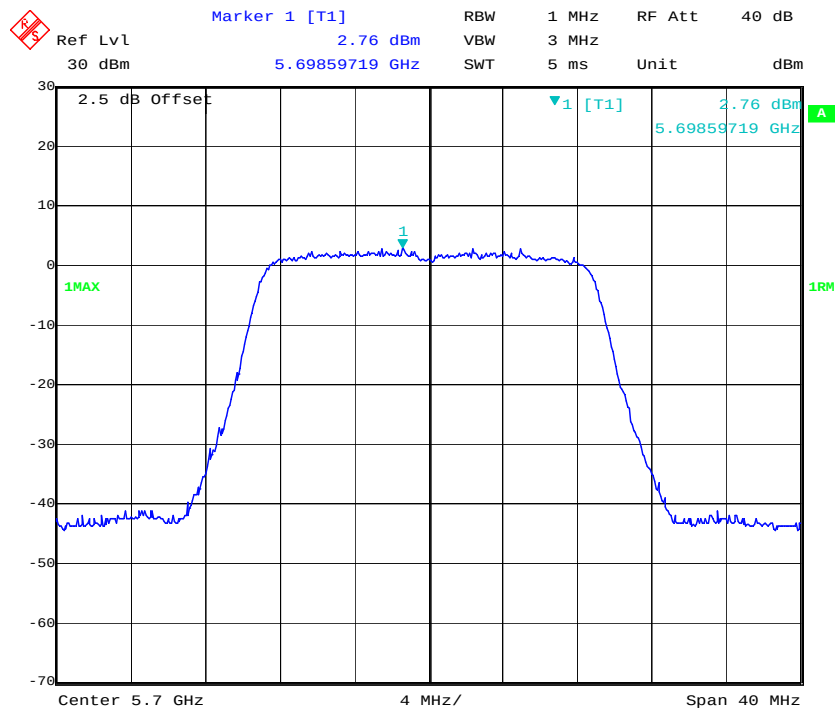


802.11n ht20 Middle Channel – Chain1



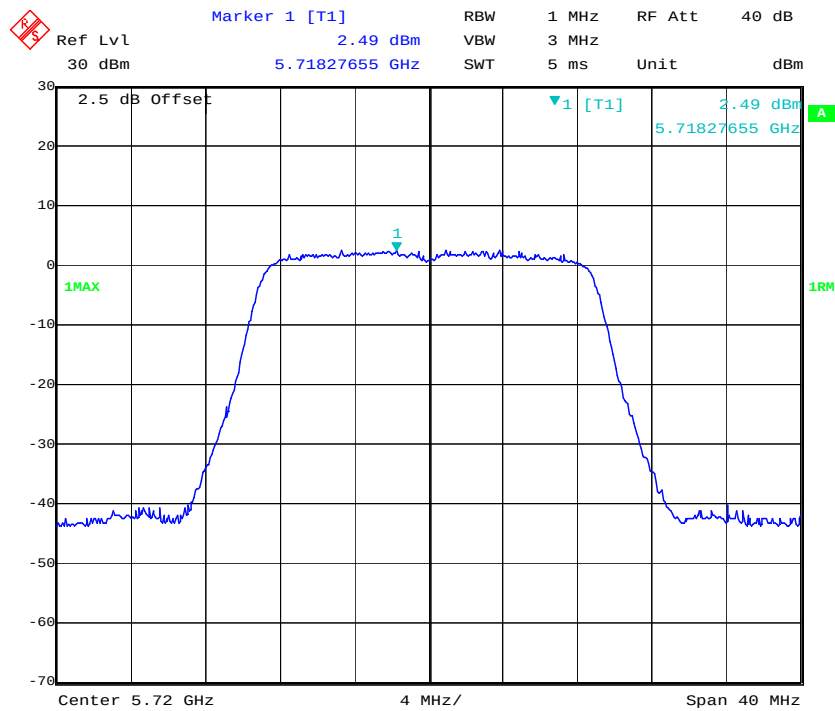
Date: 24.NOV.2016 17:43:33

802.11n ht20 High Channel – Chain1

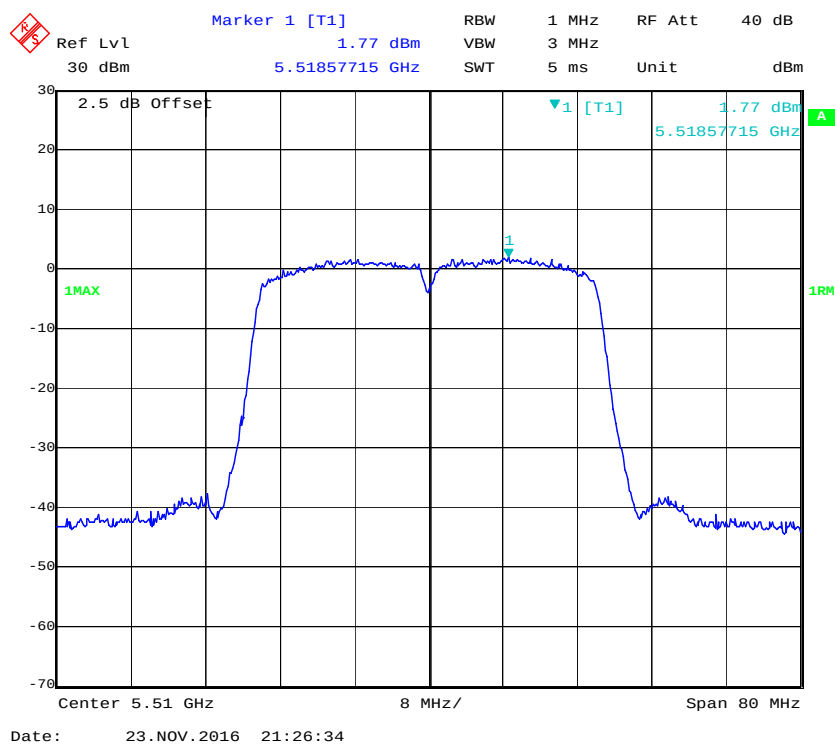


Date: 23.NOV.2016 21:06:34

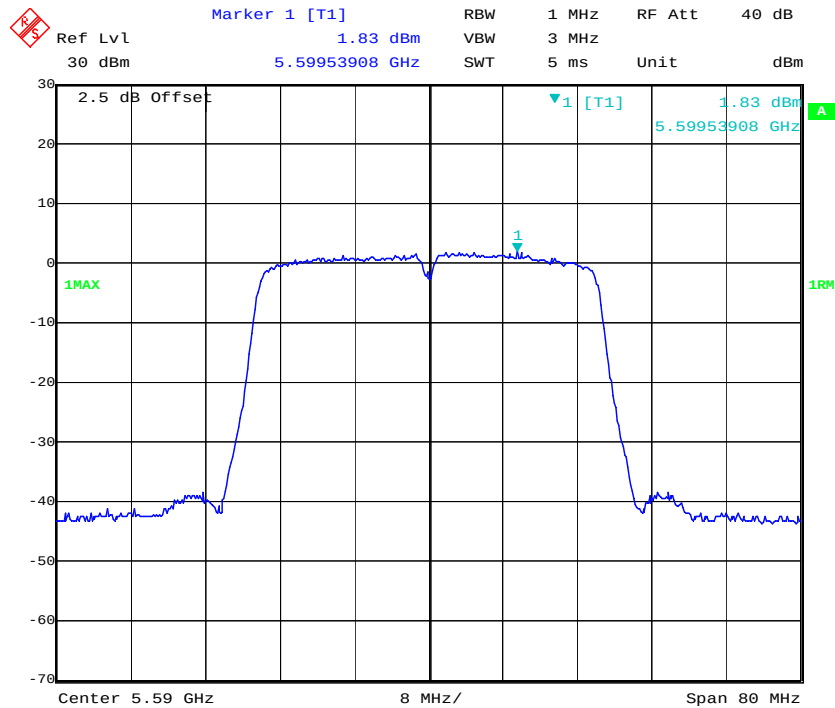
802.11n ht20 Cross Channel – Chain1



802.11n ht40 Low Channel – Chain1

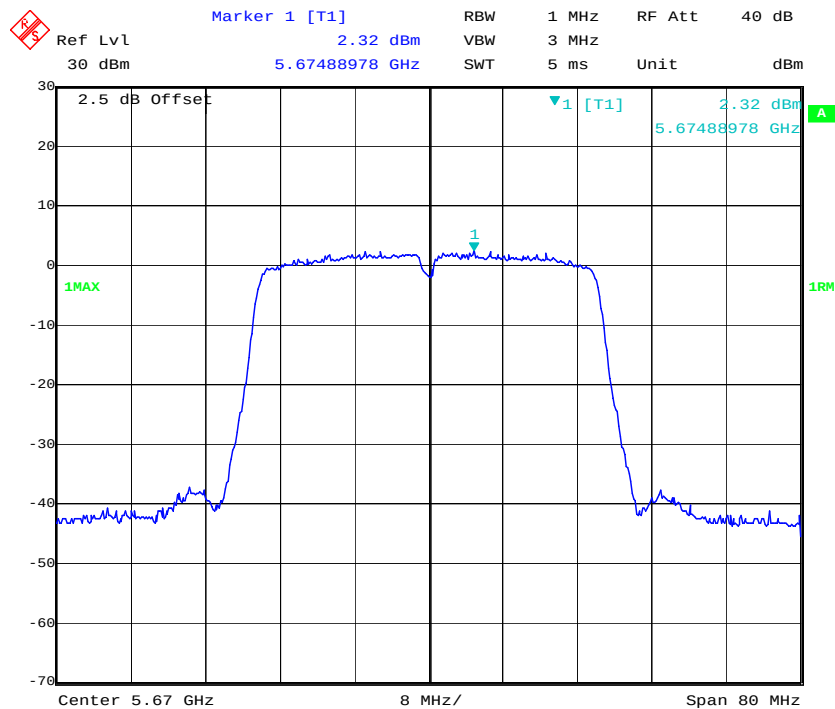


802.11n ht40 Middle Channel – Chain1



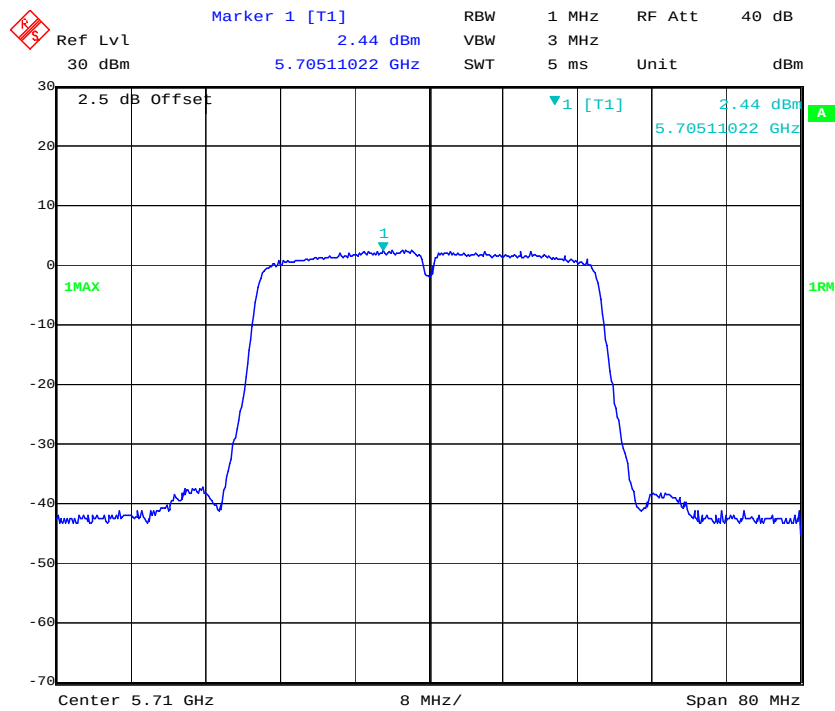
Date: 24.NOV.2016 17:46:58

802.11n ht40 High Channel – Chain1

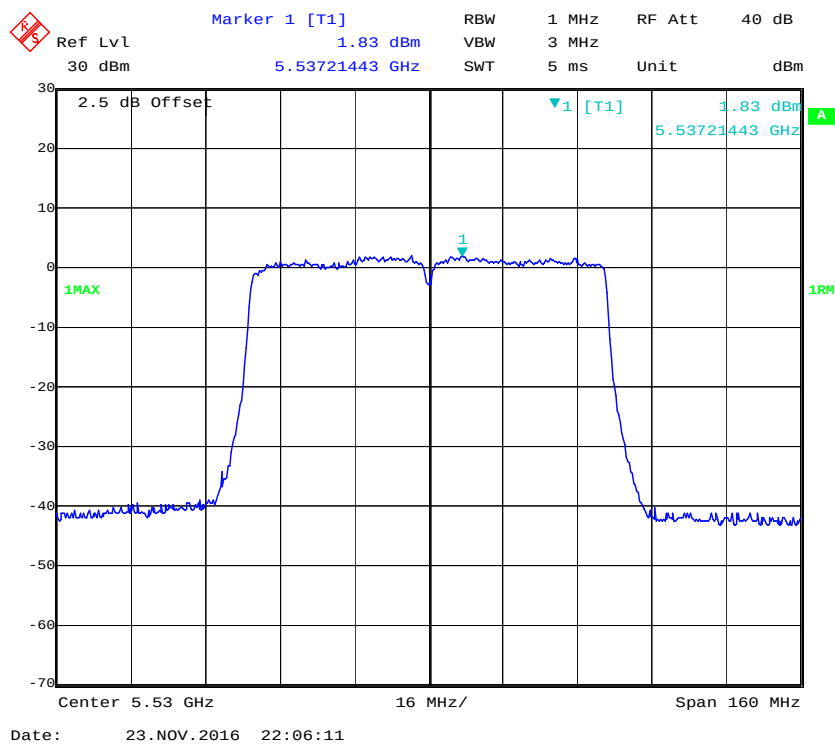


Date: 23.NOV.2016 21:39:48

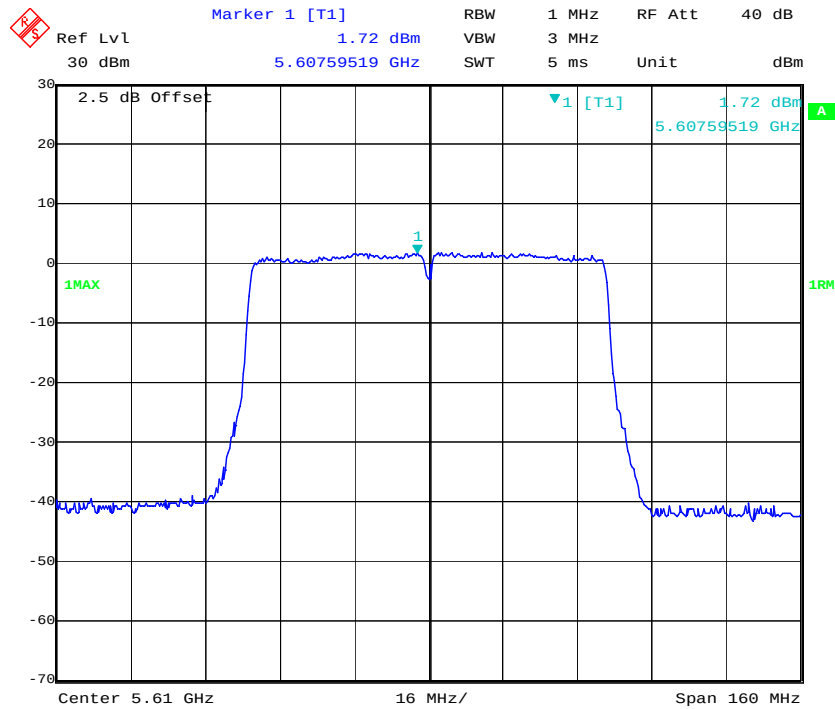
802.11n ht40 Cross Channel – Chain1



802.11 ac80 Low Channel – Chain1

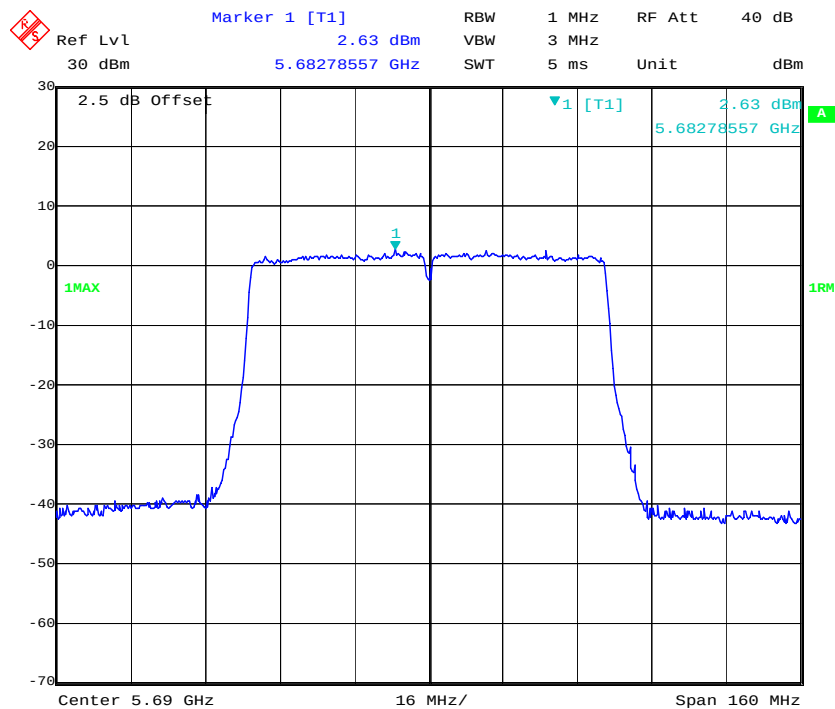


802.11 ac80 High Channel – Chain1



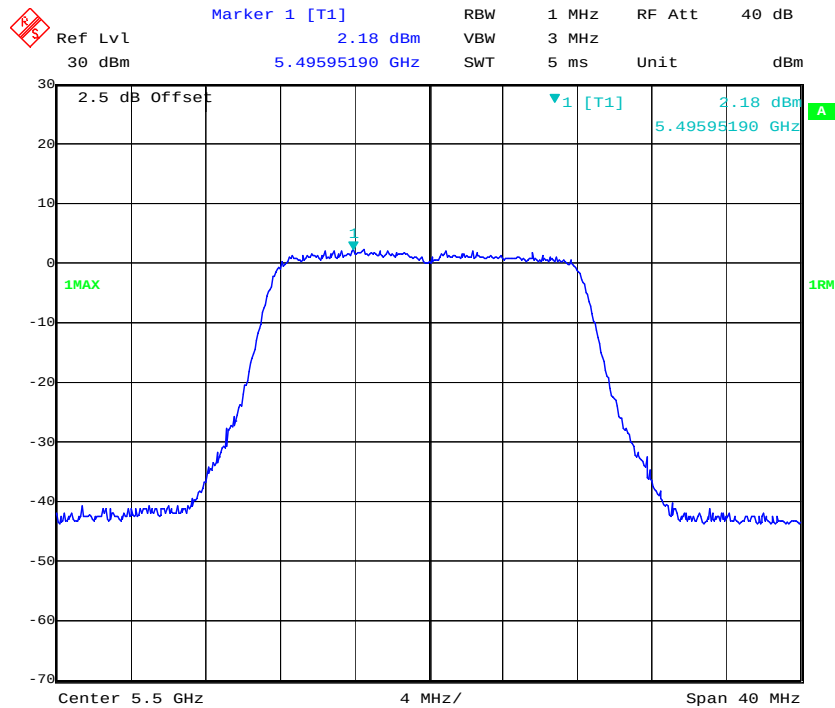
Date: 24.NOV.2016 17:51:20

802.11 ac80 Cross Channel – Chain1

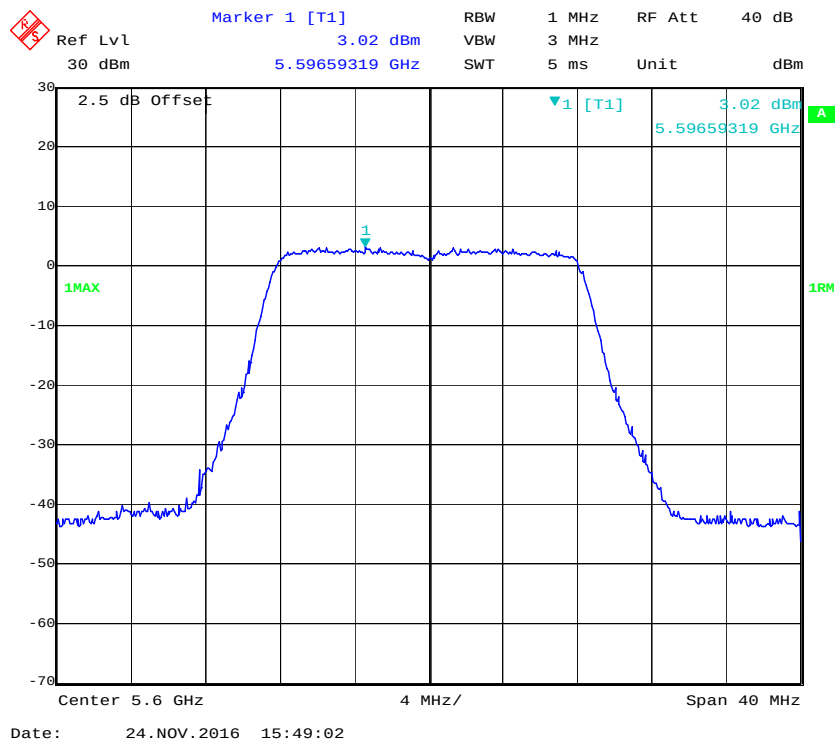


Date: 23.NOV.2016 22:15:13

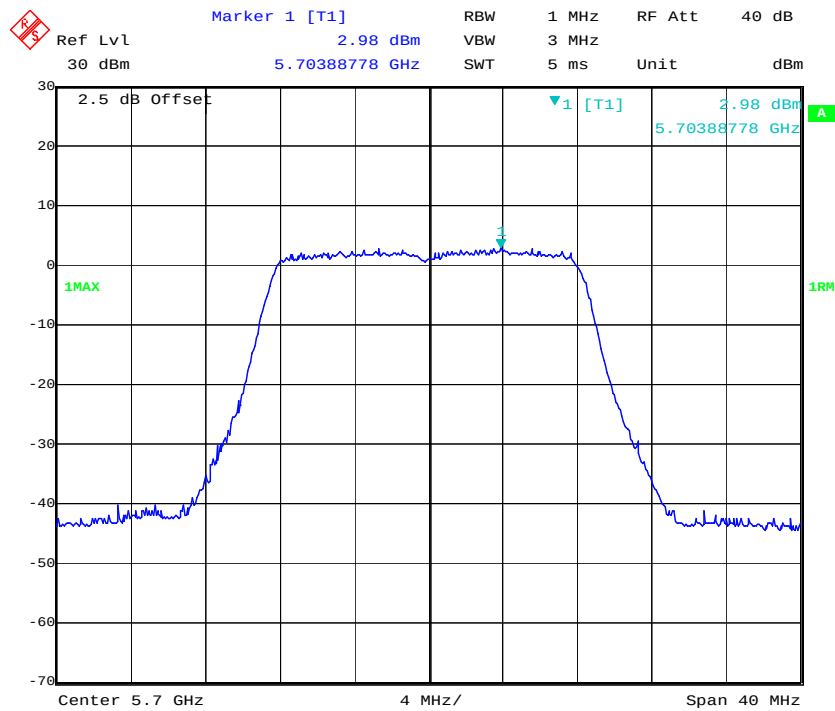
802.11a Low Channel – Chain2



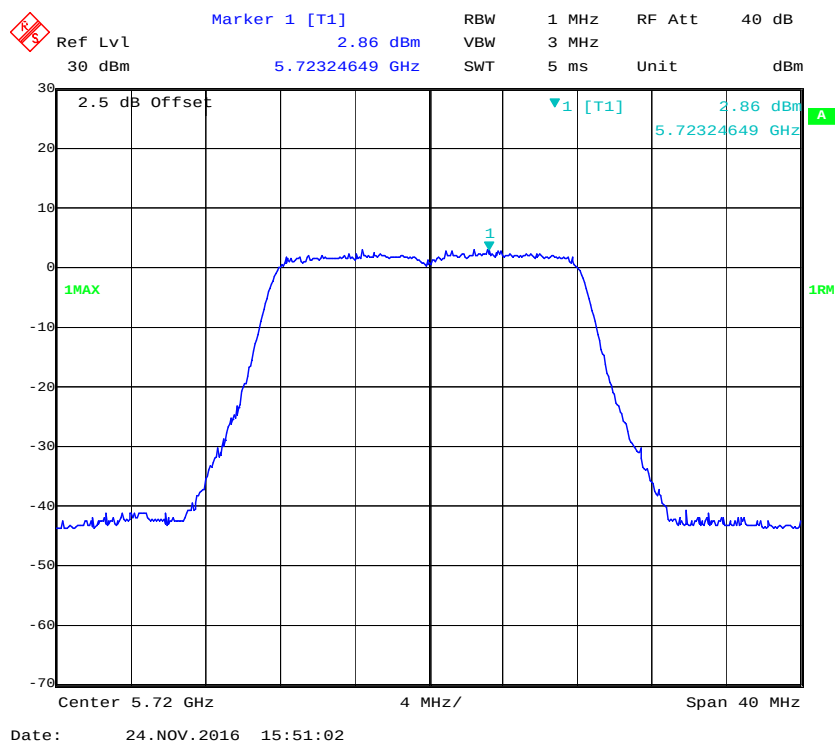
802.11a Middle Channel – Chain2



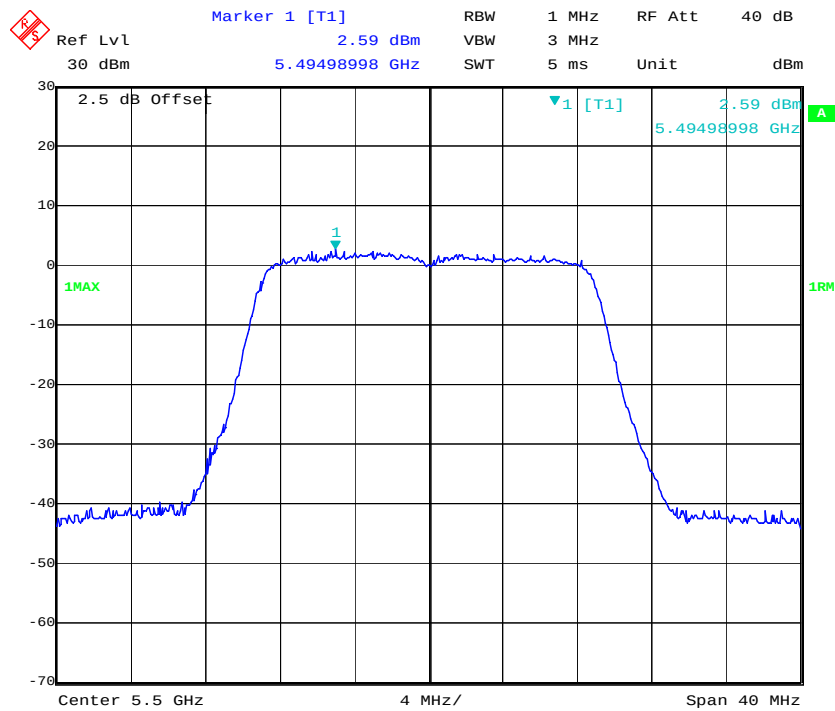
802.11a High Channel – Chain2



802.11a Cross Channel – Chain2

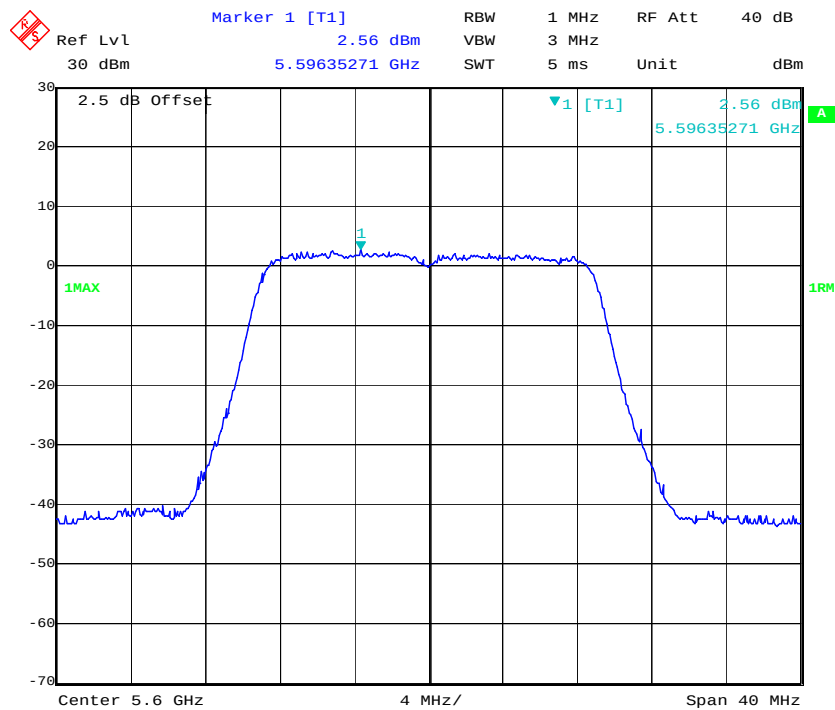


802.11n ht20 Low Channel – Chain2



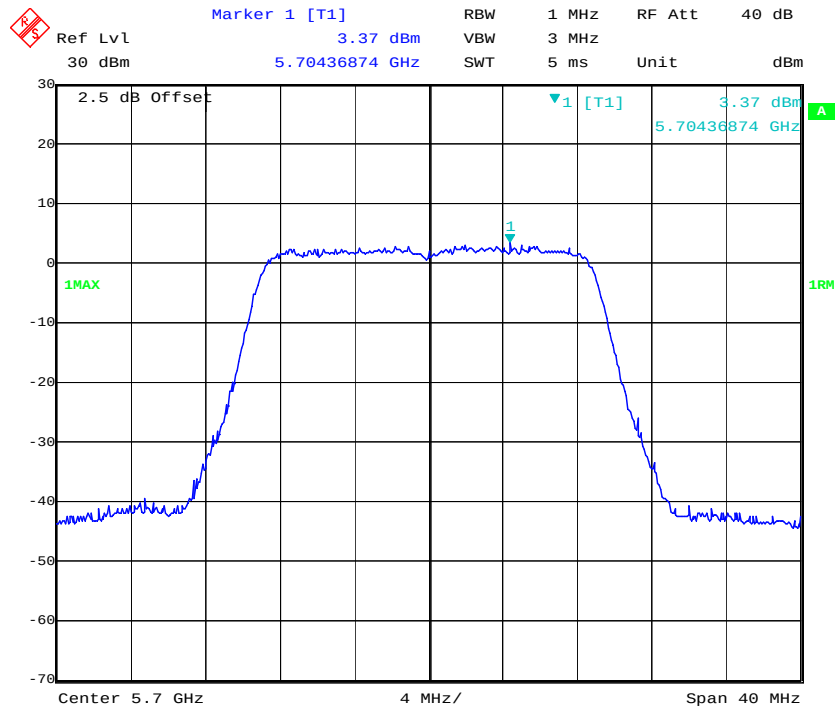
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802.11n ht20 Middle Channel – Chain2

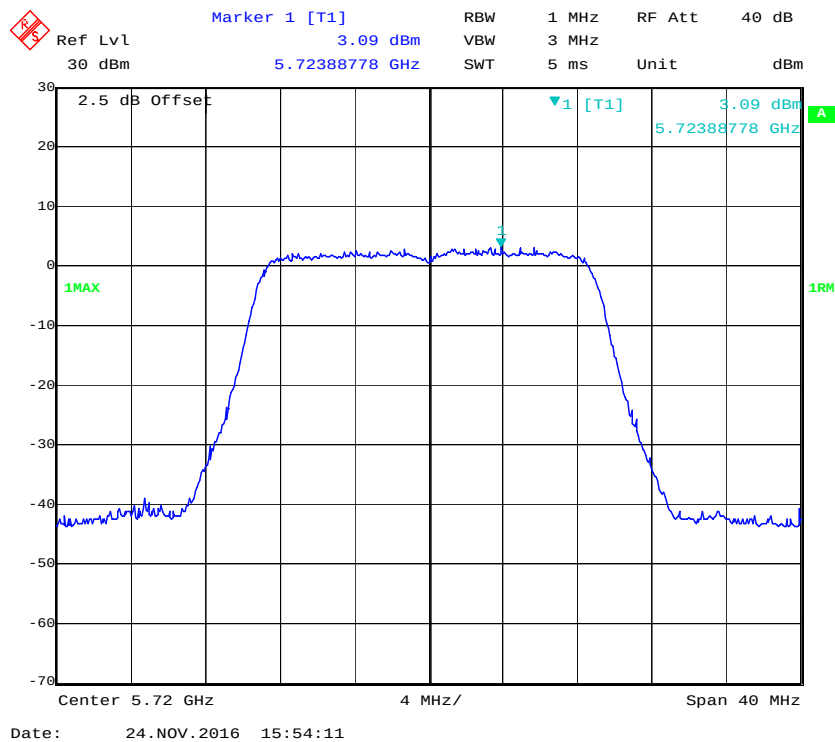


Date: 24.NOV.2016 17:43:50

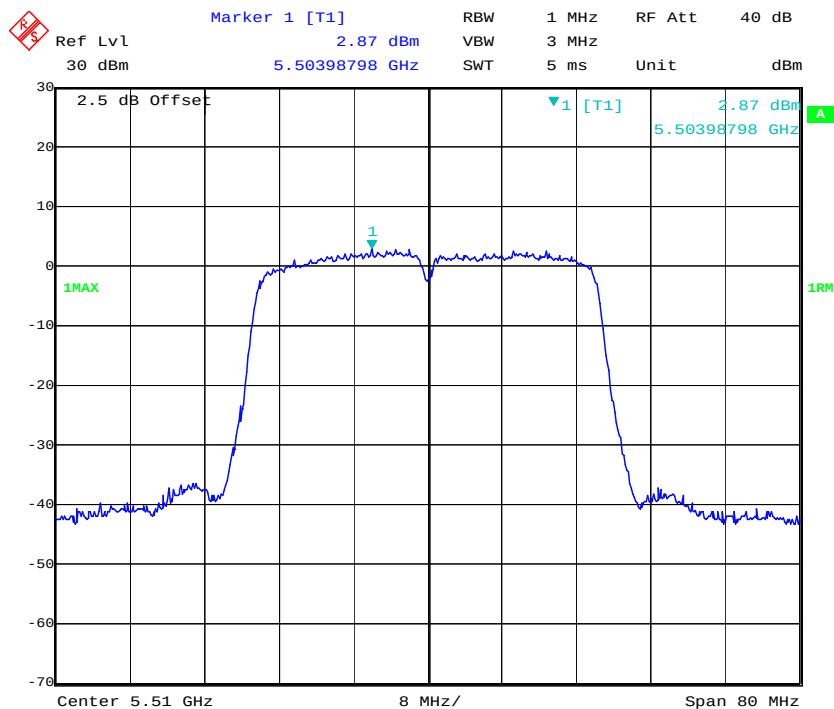
802.11n ht20 High Channel – Chain2



802.11n ht20 Cross Channel – Chain2

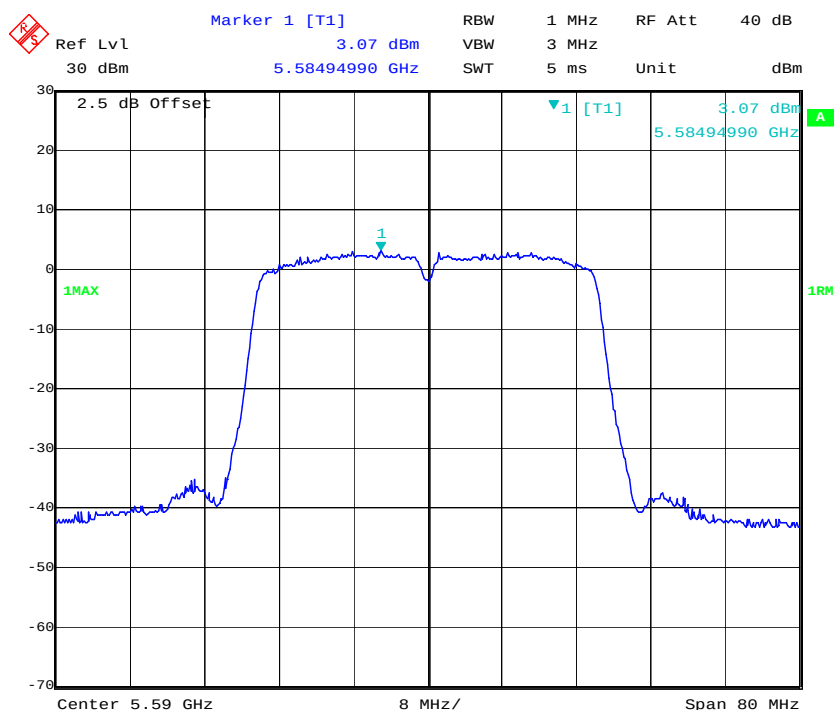


802.11n ht40 Low Channel – Chain2



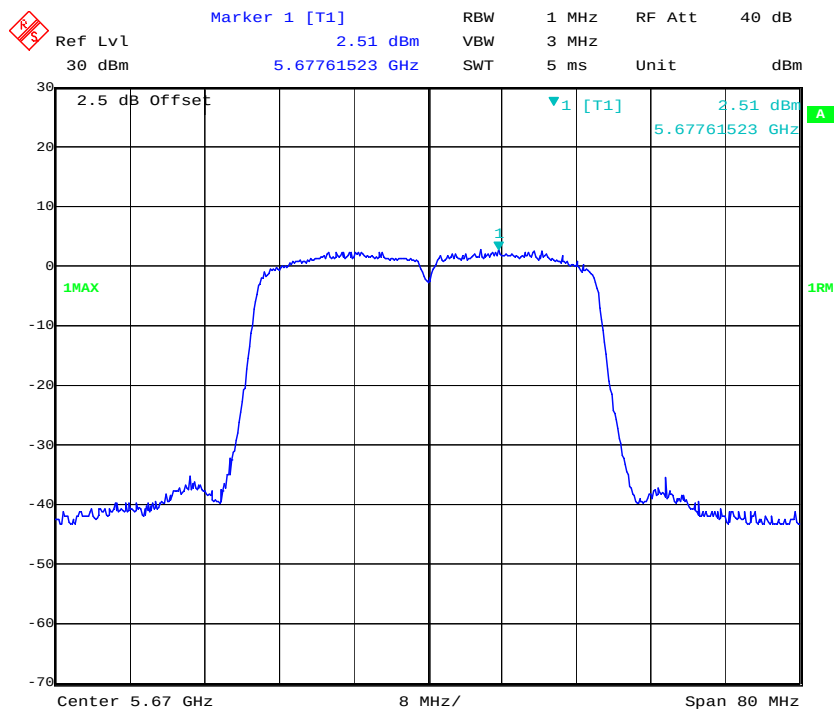
Date: 23.NOV.2016 21:25:07

802.11n ht40 Middle Channel – Chain2



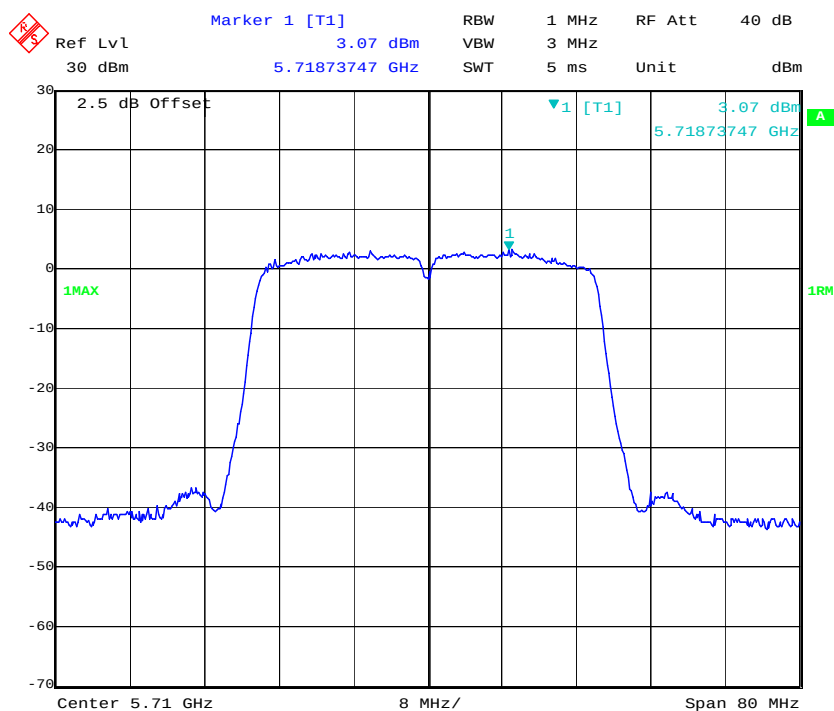
Date: 24.NOV.2016 17:46:40

802.11n ht40 High Channel – Chain2



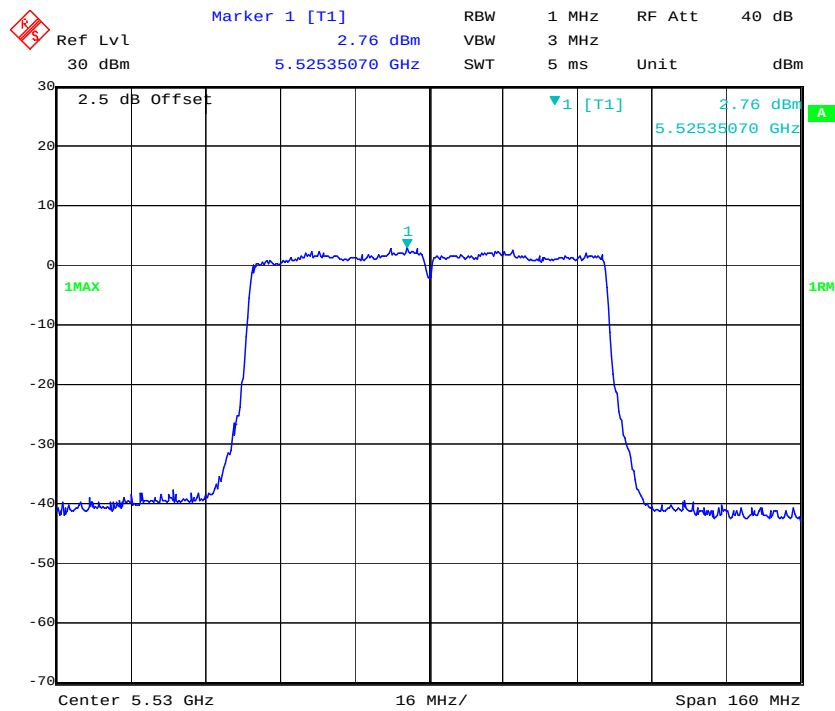
Date: 23.NOV.2016 21:35:47

802.11n ht40 Cross Channel – Chain2



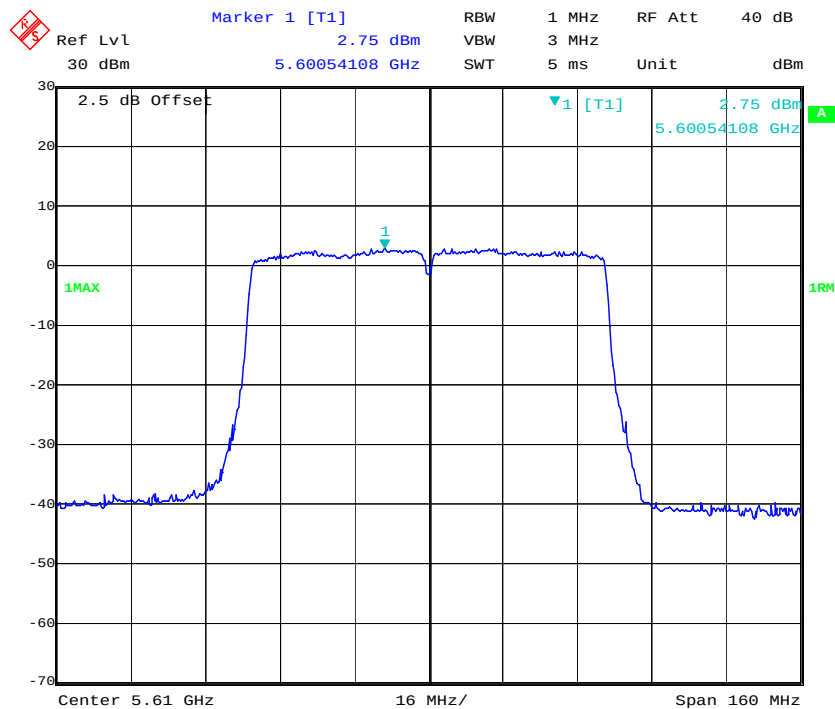
Date: 28.NOV.2016 13:40:16

802.11 ac80 Low Channel – Chain2



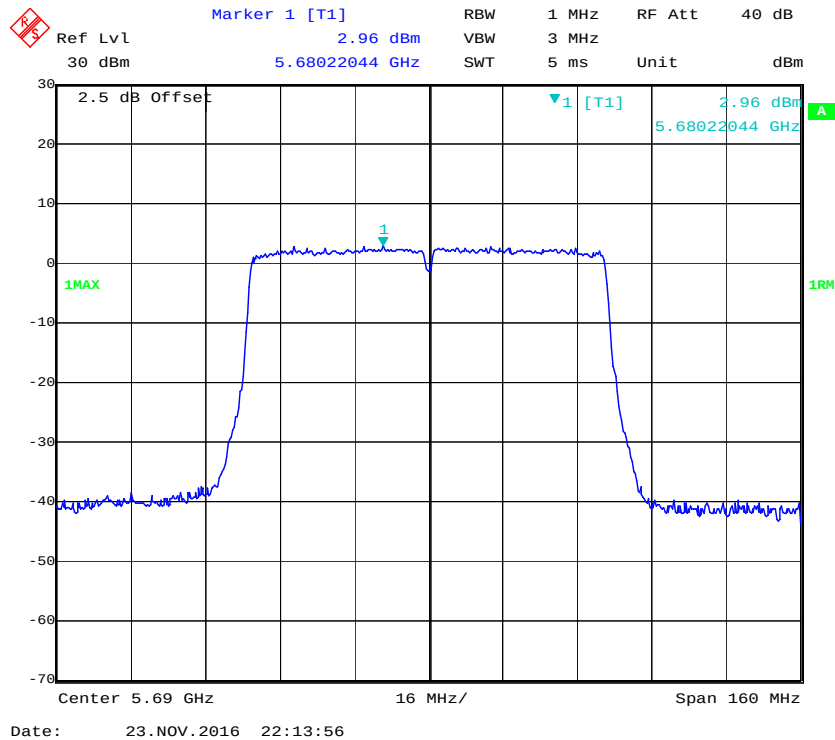
Date: 23.NOV.2016 22:07:47

802.11 ac80 High Channel – Chain2

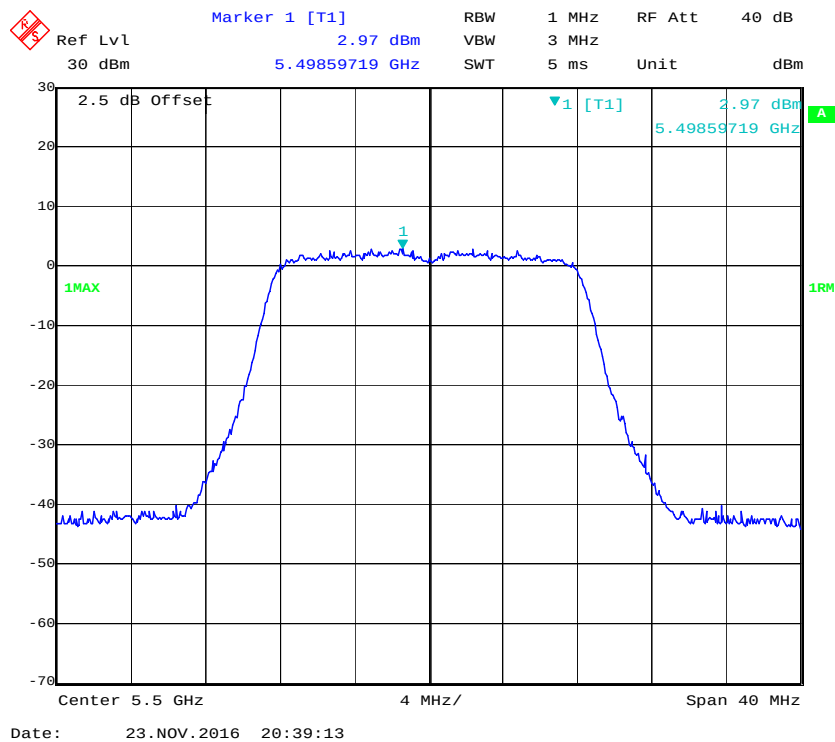


Date: 24.NOV.2016 17:51:02

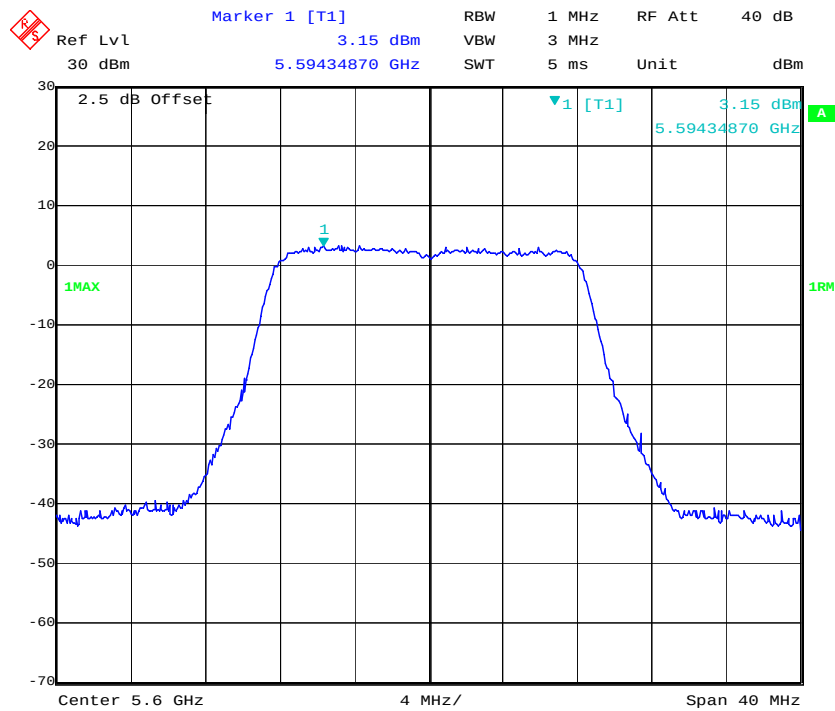
802.11 ac80 Cross Channel – Chain2



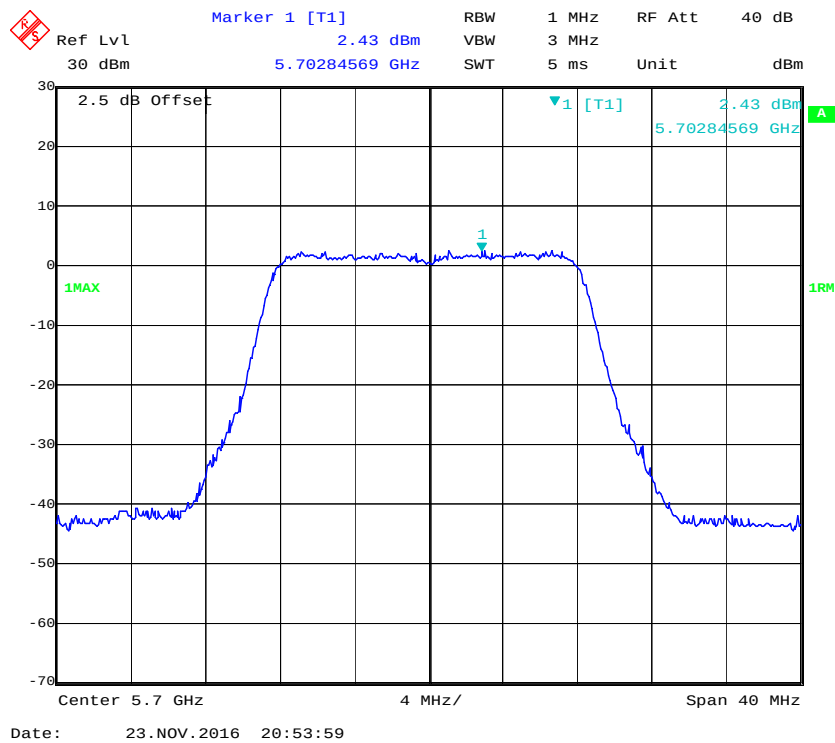
802.11a Low Channel – Chain3



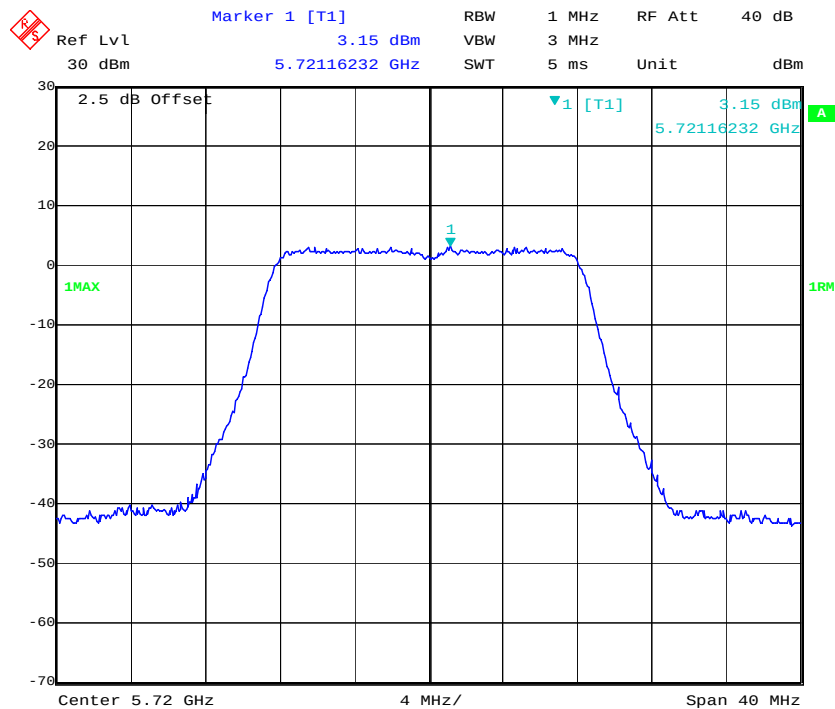
802.11a Middle Channel – Chain3



802.11a High Channel – Chain3

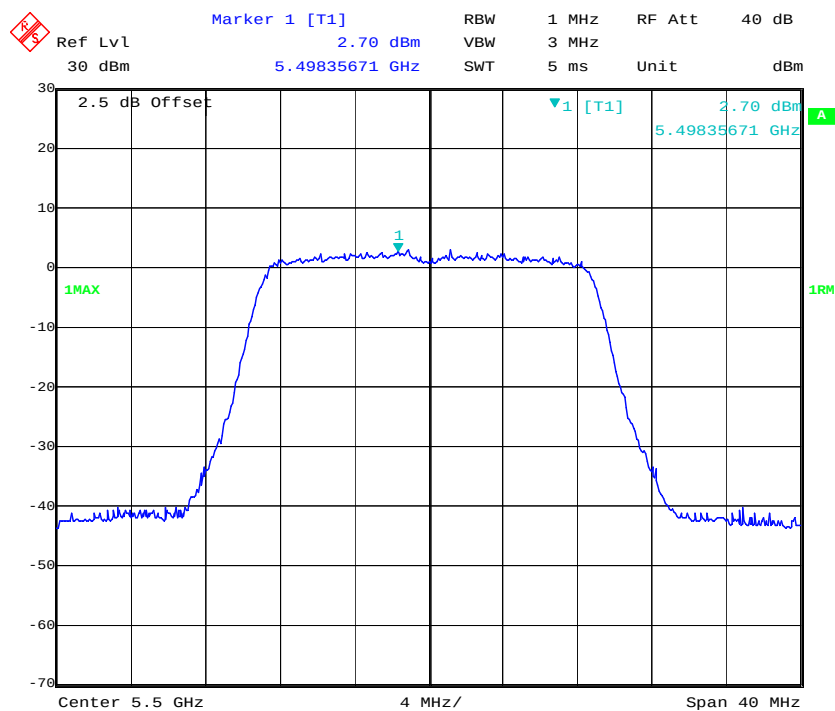


802.11a Cross Channel – Chain3



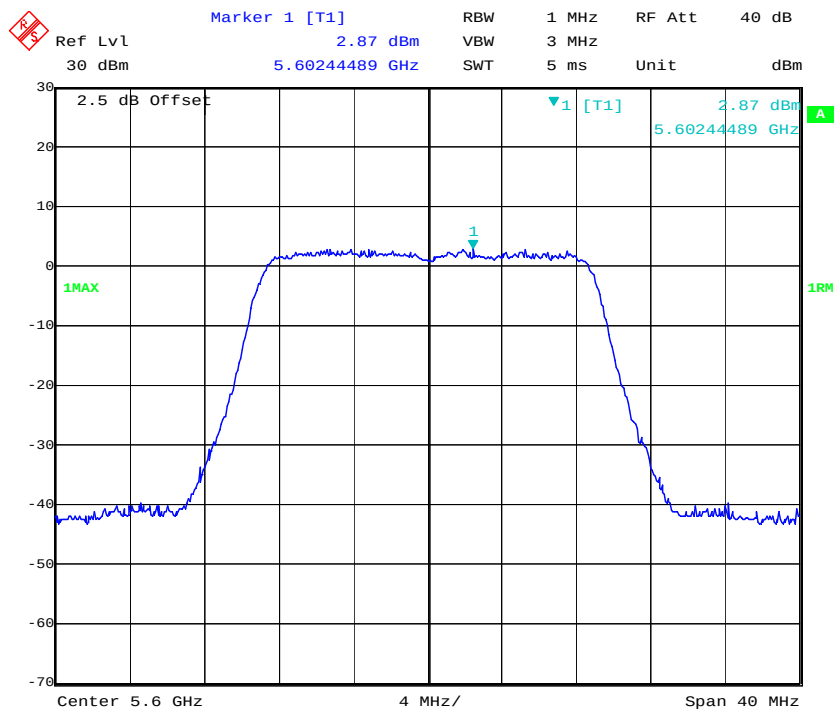
Date: 24.NOV.2016 15:50:47

802.11n ht20 Low Channel – Chain3

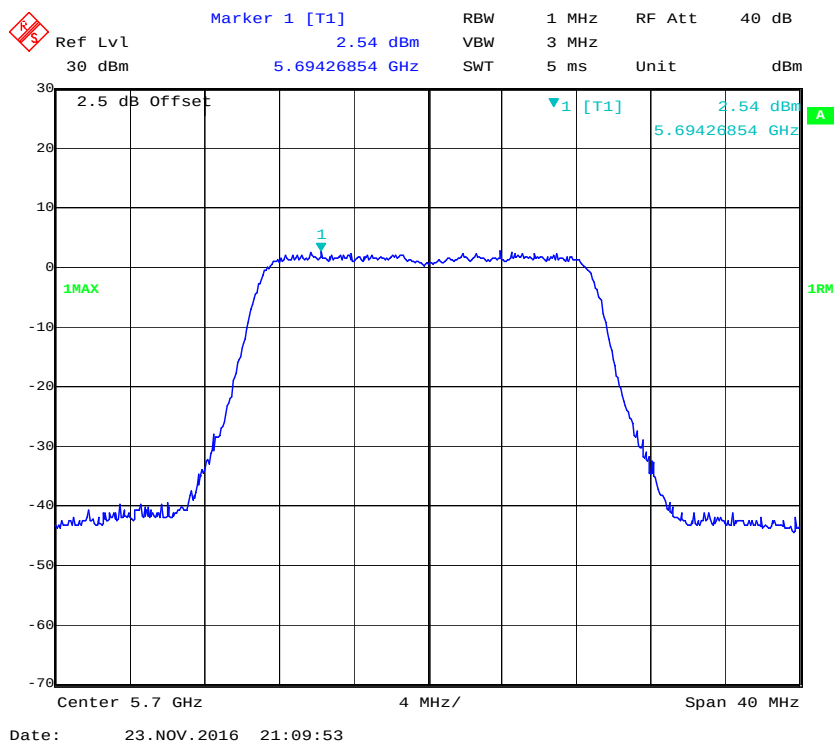


Date: 23.NOV.2016 21:12:03

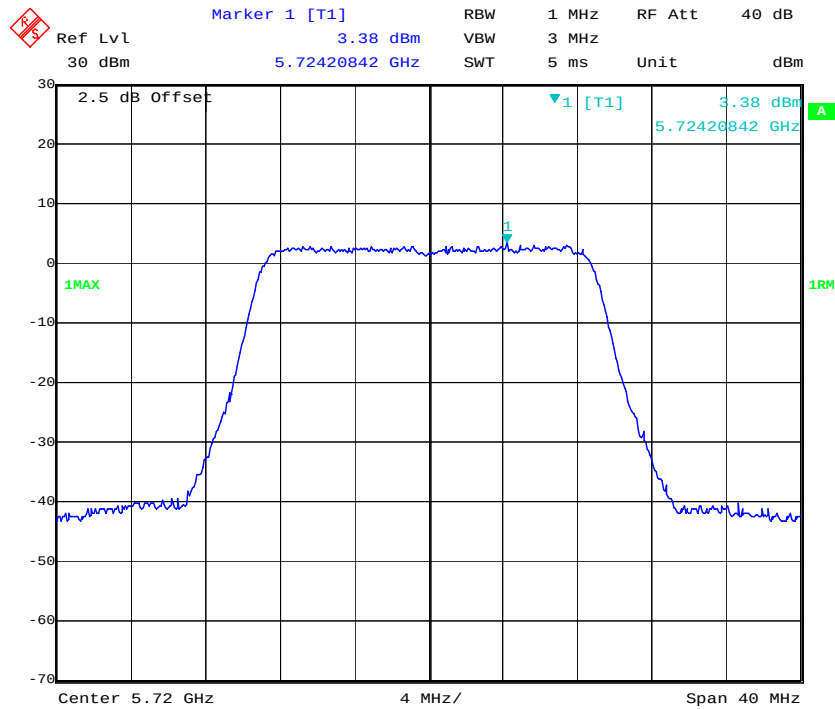
802.11n ht20 Middle Channel – Chain3



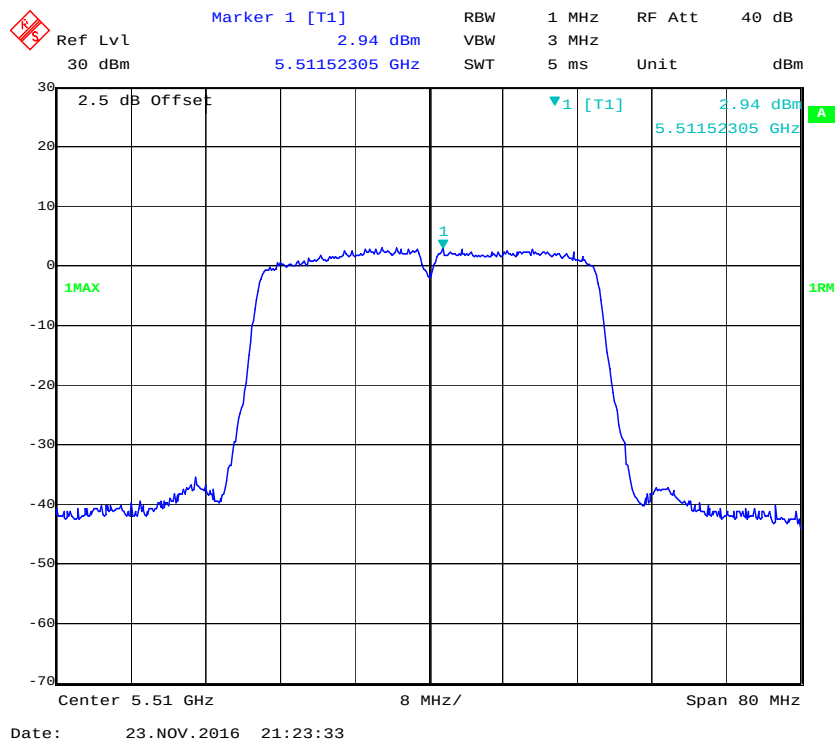
802.11n ht20 High Channel – Chain3



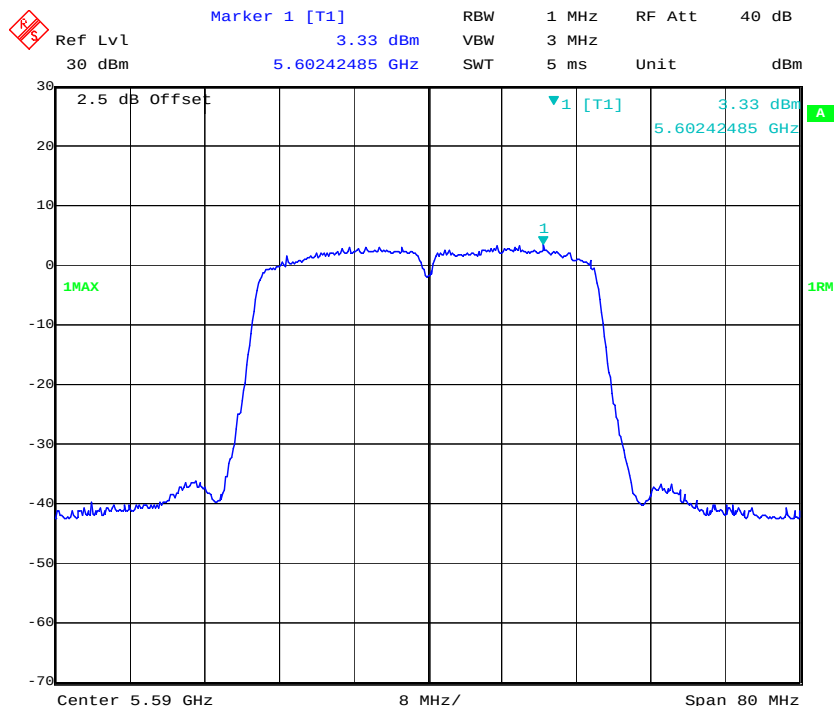
802.11n ht20 Cross Channel – Chain3



802.11n ht40 Low Channel – Chain3

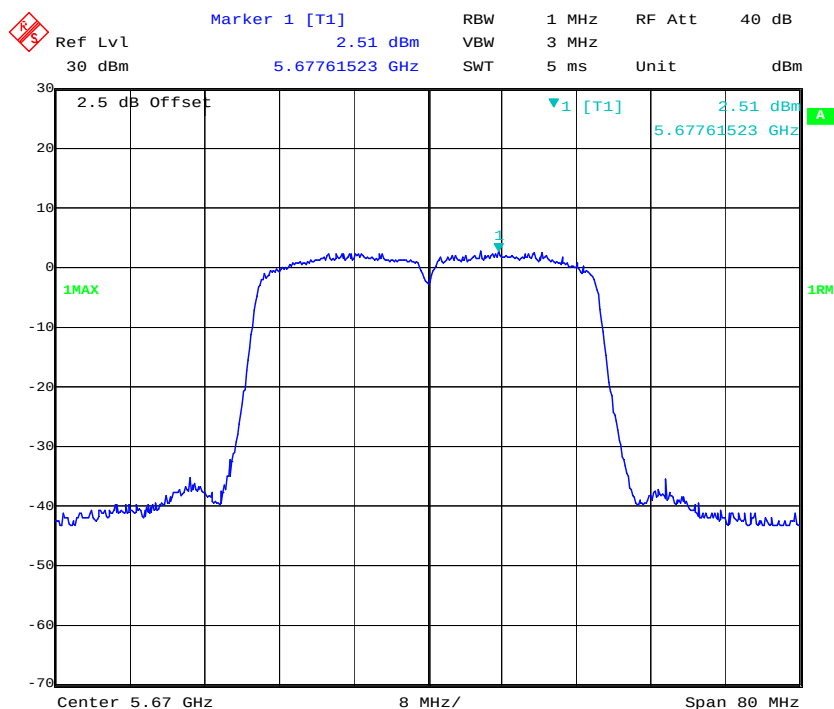


802.11n ht40 Middle Channel – Chain3



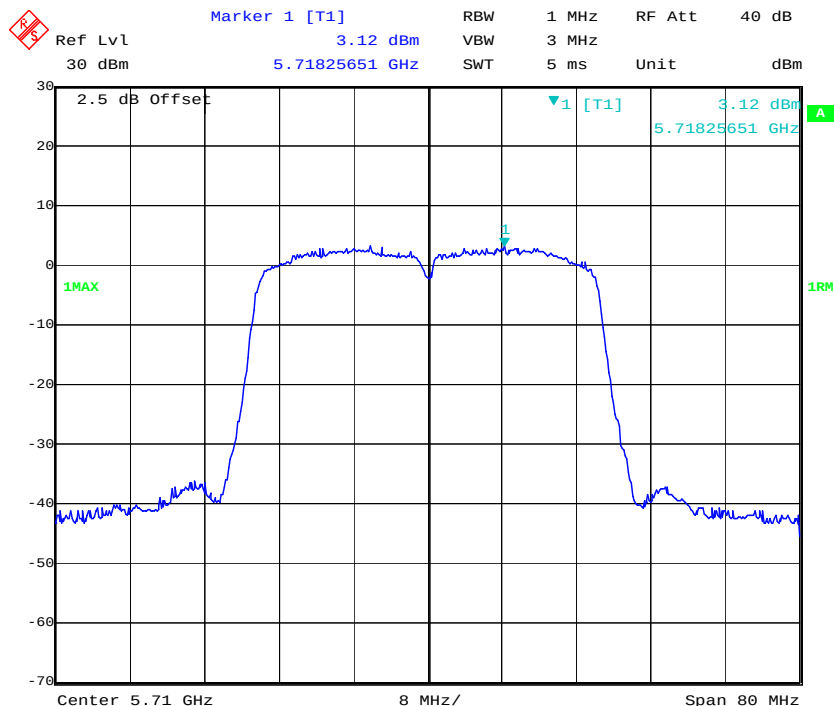
Date: 24.NOV.2016 17:46:27

802.11n ht40 High Channel – Chain3

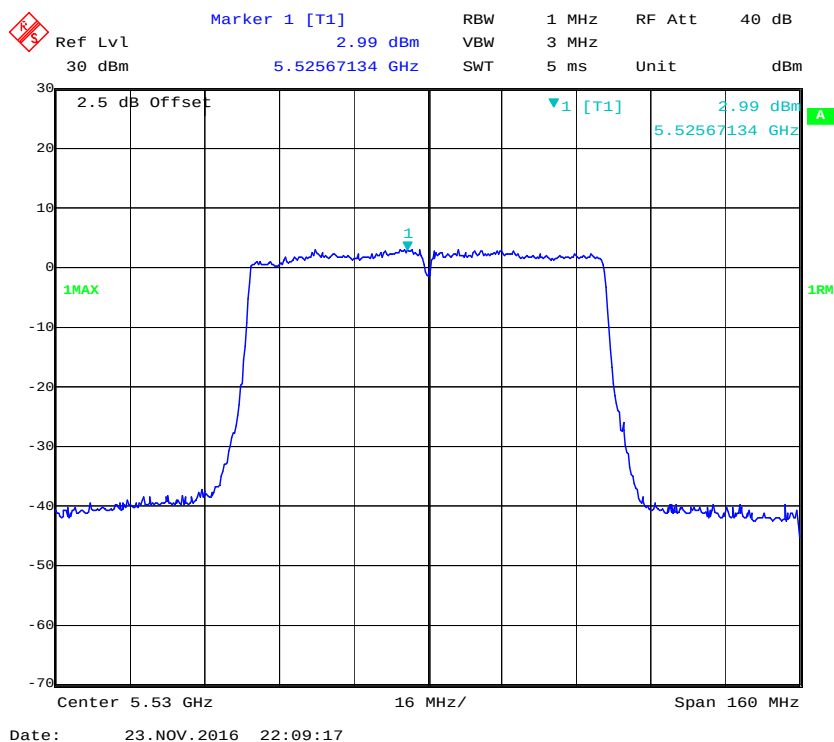


Date: 23.NOV.2016 21:35:47

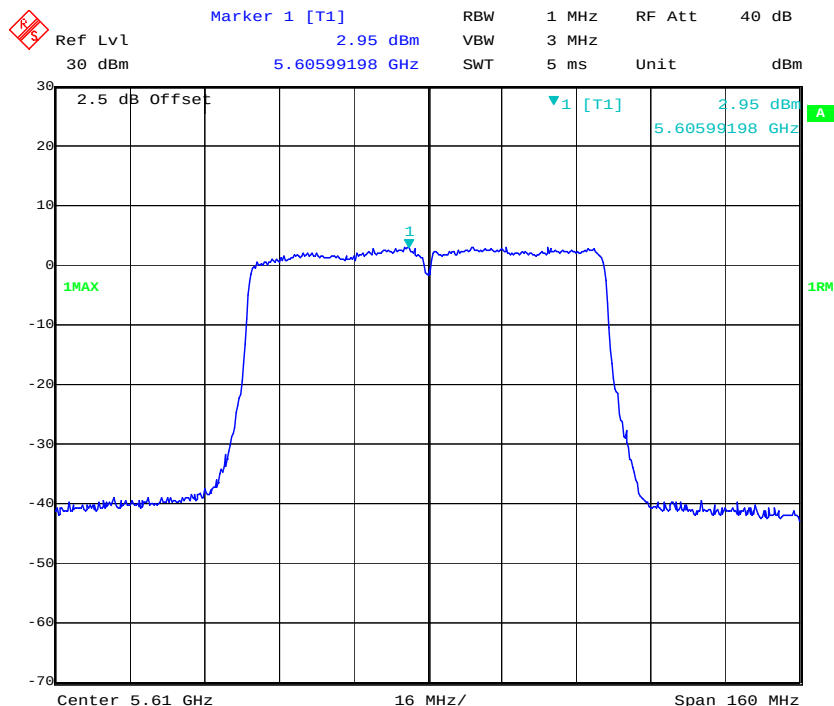
802.11n ht40 Cross Channel – Chain3



802.11 ac80 Low Channel – Chain3

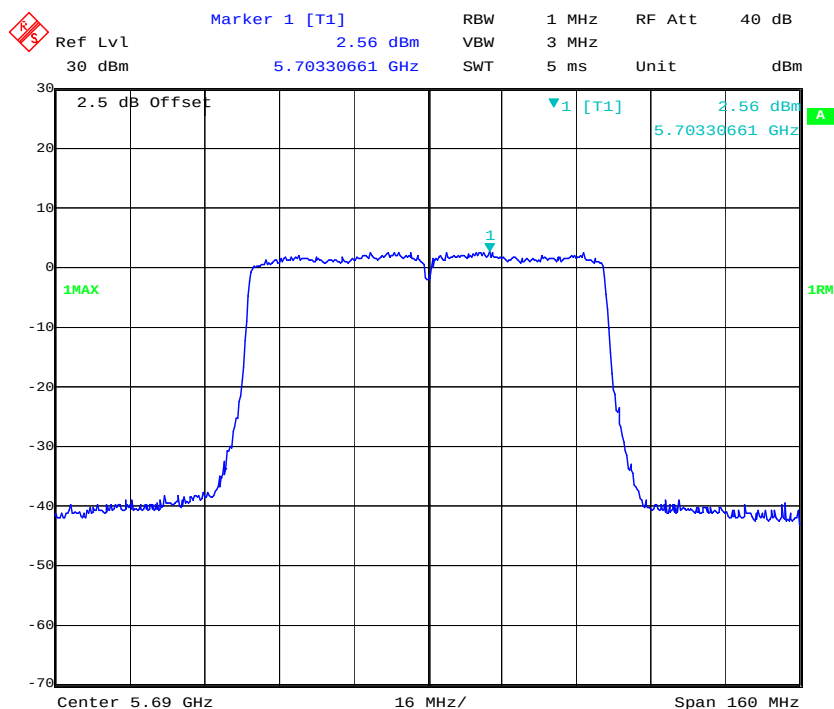


802.11 ac80 High Channel – Chain3



Date: 24.NOV.2016 17:50:44

802.11 ac80 Cross Channel – Chain3



Date: 23.NOV.2016 22:12:41

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