FCC PART 15.247

TEST REPORT

For

Actiontec Electronics, Inc.

760 North Mary Avenue Sunnyvale, CA 94085, USA

FCC ID: LNQMWTV2RX

Report Type:	Product Type:
Original Report	MyWirelessTV 2 Wireless HD Receiver

Test Engineer:	Dean Liu
Report Number:	R2SH140320050-00A
Report Date:	2014-05-19
Reviewed By:	Sula Huang RF Engineer
Test Laboratory:	Bay Area Compliance Laboratories Corp. (Dongguan) No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China Tel: +86-769-86858888 Fax: +86-769-86858891 www.baclcorp.com.cn

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Actiontec Electronics, Inc.*'s product, model number: *MWTV2Rx (FCC ID: LNQMWTV2RX) or* ("EUT") in this report is a *MyWirelessTV 2 Wireless HD Receiver*, which was measured approximately: 12.0 cm (L) x 10.4 cm (W) x 2.8 cm (H), rated input voltage: DC 5.0V from adapter.

Adapter information: Actiontec
Model name: WA-10P05FU
Input: 100-240Vac, 50-60Hz, 0.3A Max
Output: DC 5V, 2A

All measurement and test data in this report was gathered from production sample serial number: 140320050 (Assigned by BACL, Dongguan). The EUT was received on 2014-03-21.

Antenna information

Chain	Manufacturer	Model Name	Antenna Type	Max. Antenna Gain
0	Wha Yu	C787-510126-A	Dipole (PCB)	2400-2500MHz: 3.03dBi 4900-5825MHz: 5.14dBi
1	Wha Yu	C787-510126-A	Dipole (PCB)	2400-2500MHz: 3.03dBi 4900-5825MHz: 5.14dBi

Objective

This report is prepared on behalf of *Actiontec Electronics, Inc.* accordance with Part 2-Subpart J, Part 15-Subparts A, B and C of the Federal Communications Commission rules.

The tests were performed in order to determine the compliance of the EUT with FCC Part 15-Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15E NII submissions with FCC ID: *LNQMWTV2RX*.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan).

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industrial Zone, Tangxia, Dongguan, Guangdong, China

Test site at Bay Area Compliance Laboratories Corp. (Dongguan) 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 February 02, 2012. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission has the reports on file and is listed under FCC Registration No.: 273710. 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 system was configured for testing in testing mode, which was provided by manufacturer.
For 2.4GHz band, 11 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

For 802.11b, 802.11g, and 802.11n ht20 modes were tested with Channel 1, 6 and 11.For 802.11n ht40 mode were tested with Channel 3, 6 and 9.

For 5725~5850MHz band, 8 channels are provided to testing:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
149	5745	159	5795
151	5755	161	5805
153	5765	165	5825
155	5775	/	/
157	5785	/	/

For 802.11a, 802.11n ht20, Channel 149, 157 and 165 was tested, for 802.11n ht40, Channel 151, 159 was tested.

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.

Equipment Modifications

No modification was made to the EUT tested.

EUT Exercise Software

The software "AR6kArt2Win_SW.3110" was used for testing, which was provided by manufacturer. The worst condition (maximum power) was setting by the software as following table:

Test Mode	Test Software Version	AR6kArt2Win_SW.3110		
802.11b	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	1Mbps	1Mbps	1Mbps
	Power Level Setting Chain0	16	17.5	17
	Power Level Setting Chain1	16	17.5	17
802.11g	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	6Mbps	6Mbps	6Mbps
	Power Level Setting Chain0	12.5	18.5	15.5
	Power Level Setting Chain1	12.5	18.5	15.5
802.11n ht20	Test Frequency	2412MHz	2437MHz	2462MHz
	Data Rate	MCS8	MCS8	MCS8
	Power Level Setting Chain0	10	18.5	11
	Power Level Setting Chain1	10	18.5	11
802.11n ht40	Test Frequency	2422MHz	2437MHz	2452MHz
	Data Rate	MCS8	MCS8	MCS8
	Power Level Setting Chain0	9	17.5	11
	Power Level Setting Chain1	9	17.5	11
802.11 a	Test Frequency	5745MHz	5785MHz	5825MHz
	Data Rate	6Mbps	6Mbps	6Mbps
	Power Level Setting Chain0	12	22.5	13.5
	Power Level Setting Chain1	12	22.5	13.5
5G 802.11n ht20	Test Frequency	5745MHz	5785MHz	5825MHz
	Data Rate	MCS8	MCS8	MCS8
	Power Level Setting Chain0	8	22	11
	Power Level Setting Chain1	8	22	11
5G 802.11n ht40	Test Frequency	5755MHz	5795MHz	
	Data Rate	MCS8	MCS8	
	Power Level Setting Chain0	9	16	
	Power Level Setting Chain1	9	16	

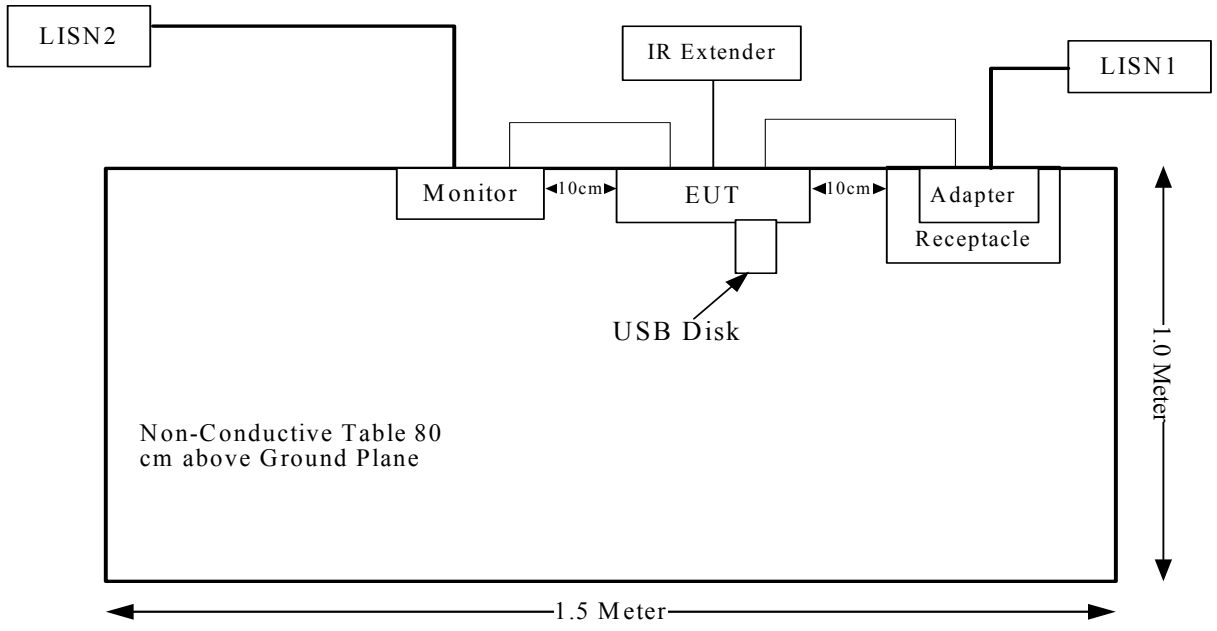
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
SAMSUNG	Monitor	S22C330H	ZXDCHTHD101491K
Kingston	USB Disk	8GB	N/A

External Cable

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Adapter DC Cable	No	No	1.58	Adapter	EUT
HDMI Cable	Yes	No	0.92	HDMI Port of Monitor	EUT
IR Extender Cable	No	No	1.53	IR Port of EUT	IR Extender

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.247 (i) & §1.1310 & §2.1091	Maximum Permissible Exposure	Compliance
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(d)	Spurious Emissions at Antenna Port	Compliance
§15.205, §15.209, §15.247(d)	Spurious Emissions	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
§15.247(b)(3)	Maximum conducted output power	Compliance
§15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliance
§15.247(e)	Power Spectral Density	Compliance

FCC §15.247 (i) & §1.1310 & §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart 15.247(i)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/f²)	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/cm^2);
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);

Calculated Data:

Mode	**Frequency (MHz)**	**Antenna Gain**		**Conducted Power**		**Evaluation Distance (cm)**	**Power Density (mW/cm^2)**	**MPE Limit (mW/cm^2)**
		(dBi)	**(numeric)**	**(dBm)**	**(mW)**			
2.4G-802.11b	2437	3.03	2.01	21.00	125.89	20	0.050	1.0
2.4G-802.11g	2437	3.03	2.01	20.38	109.14	20	0.044	1.0
2.4G-802.11n HT20	2437	3.03	2.01	23.27	212.32	20	0.085	1.0
2.4G-802.11n HT40	2437	3.03	2.01	22.89	194.54	20	0.078	1.0
802.11a	5785	5.14	3.27	17.59	57.41	20	0.037	1.0
5G-802.11n HT20	5785	5.14	3.27	20.41	109.90	20	0.071	1.0
5G-802.11n HT40	5795	5.14	3.27	16.24	42.07	20	0.027	1.0

Result: The device meet FCC MPE at 20 cm distance

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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

a. Antenna must be permanently attached to the unit.
b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

This product used two internal dipole antennas which were connected to the mainboard with I-PEX socket, the maximum gain is 3.03dBi for 2.4G band and 5.14dBi for 5G band, which fulfill the requirement of this section, and please refer to the EUT photos.

Result: Compliance.

FCC §15.207 (a) – AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC§15.207

Measurement Uncertainty

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

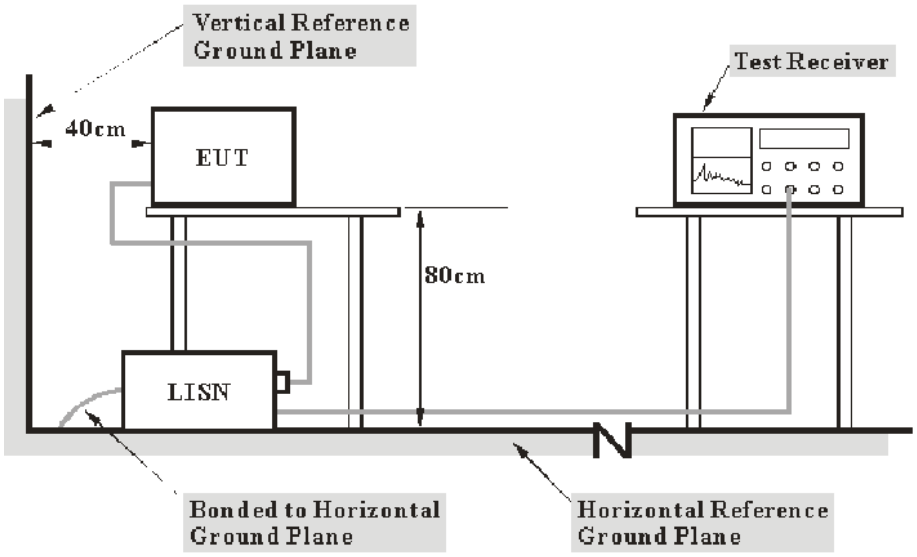
If U_{lab} is less than or equal to U_{cispr} of Table 1, then:
– compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
– non - compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.
If U_{lab} is greater than U_{cispr} of 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 conducted disturbance at mains port using AMN at Bay Area Compliance Laboratories Corp. (Dongguan) is 3.46 dB (150 kHz to 30 MHz).

Table 1 – Values of U_{cispr}

Measurement	U_{cispr}
Conducted disturbance at mains port using AMN (150 kHz to 30 MHz)	3.4 dB

EUT Setup



Note: 1. Support units were connected to second LISN.
2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.4-2003 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

The adapter was connected to a 120 VAC/60 Hz power source

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the adapter was connected to the first LISN and the other support equipments were connected to the outlet of the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Amplitude & Margin Calculation

The basic equation is as follows:

$V_C = V_R + A_C + VDF$
$C_f = A_C + VDF$

Herein,
V_C (cord. Reading): corrected voltage amplitude
V_R: reading voltage amplitude
A_c: attenuation caused by cable loss
VDF: voltage division factor of AMN
C_f: Correction Factor

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

Margin = Limit – Corrected Amplitude

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCS 30	830245/006	2013-11-20	2014-11-19
R&S	Two-line V-network	ENV216	3560.6550.12	2014-01-22	2015-01-21
R&S	L.I.S.N	ESH3-Z5	100113	N/A	N/A
R&S	Test Software	EMC32	Version8.53.0	N/A	N/A

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests 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 Part 15.207, with the worst margin reading of:

9.9 dB at **0.399703 MHz** in the **Line** conducted mode

Test Data

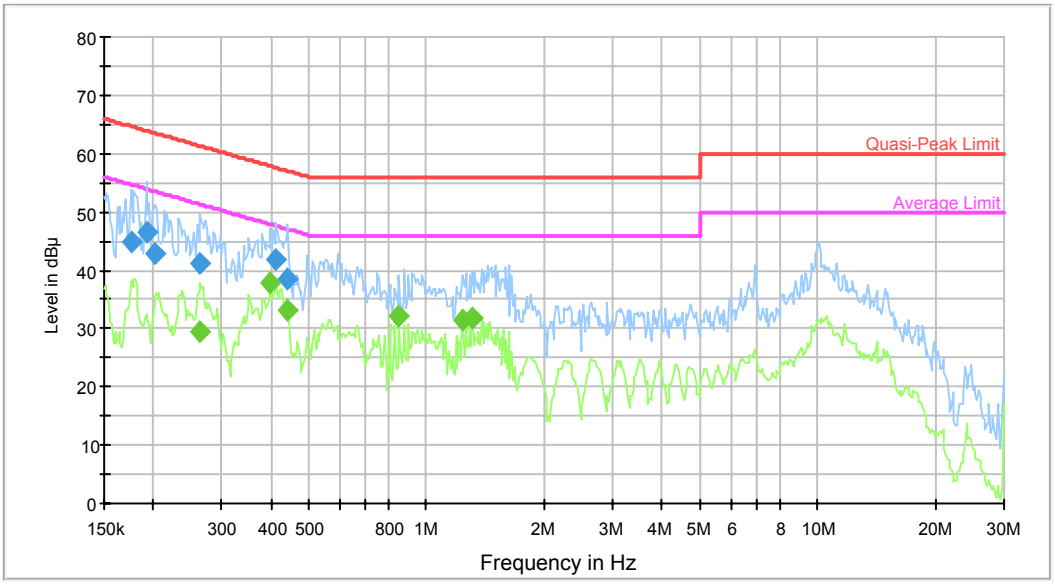
Environmental Conditions

Temperature:	25.2 °C
Relative Humidity:	54 %
ATM Pressure:	100.9 kPa

The testing was performed by Dean Liu on 2014-04-28.

Test Mode: Transmitting

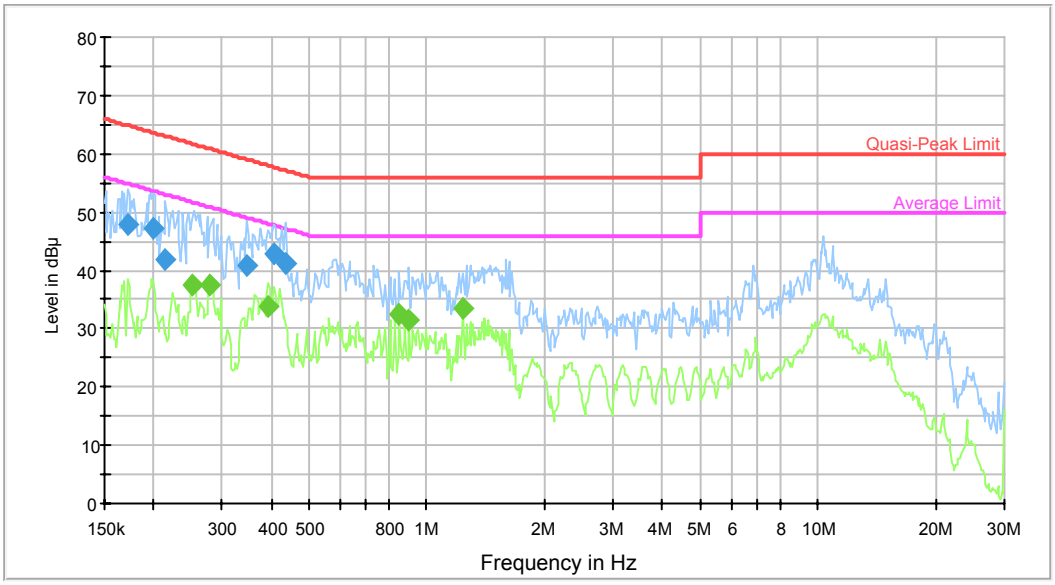
AC120 V, 60 Hz, Line:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.175915	44.8	9.000	L1	9.9	19.9	64.7	Compliance
0.192030	46.6	9.000	L1	10.1	17.3	63.9	Compliance
0.203045	42.8	9.000	L1	10.2	20.7	63.5	Compliance
0.264113	41.2	9.000	L1	10.2	20.1	61.3	Compliance
0.412647	41.9	9.000	L1	10.0	15.7	57.6	Compliance
0.443327	38.4	9.000	L1	10.0	18.6	57.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.264113	29.5	9.000	L1	10.2	21.8	51.3	Compliance
0.399703	37.9	9.000	L1	10.0	9.9	47.9	Compliance
0.439808	33.0	9.000	L1	10.0	14.0	47.1	Compliance
0.852094	32.2	9.000	L1	9.8	13.8	46.0	Compliance
1.239175	31.4	9.000	L1	9.7	14.6	46.0	Compliance
1.310256	31.7	9.000	L1	9.7	14.3	46.0	Compliance

AC120 V, 60 Hz, Neutral:



Frequency (MHz)	QuasiPeak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.171759	48.0	9.000	N	10.2	16.9	64.9	Compliance
0.199835	47.2	9.000	N	10.8	16.4	63.6	Compliance
0.214692	41.7	9.000	N	10.8	21.3	63.0	Compliance
0.346296	40.8	9.000	N	10.4	18.3	59.1	Compliance
0.406123	42.8	9.000	N	10.2	14.9	57.7	Compliance
0.436318	41.0	9.000	N	10.2	16.1	57.1	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.251783	37.5	9.000	N	10.7	14.2	51.7	Compliance
0.279263	37.4	9.000	N	10.6	13.4	50.8	Compliance
0.393383	33.9	9.000	N	10.3	14.1	48.0	Compliance
0.852094	32.4	9.000	N	9.8	13.6	46.0	Compliance
0.900972	31.6	9.000	N	9.8	14.4	46.0	Compliance
1.239175	33.4	9.000	N	9.8	12.6	46.0	Compliance

FCC §15.209, §15.205 & §15.247(d) - SPURIOUS EMISSIONS

Applicable Standard

FCC §15.247 (d); §15.209; §15.205;

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 2, 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 2, 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.

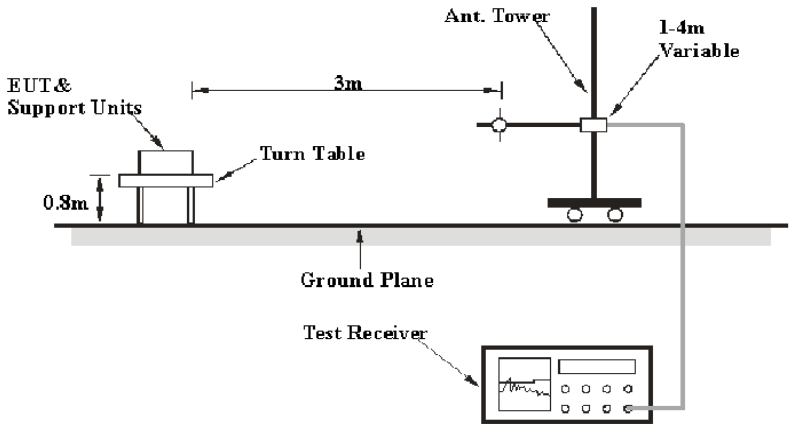
Based on CISPR 16-4-2-2011, measurement uncertainty of radiated emission at a distance of 3m at Bay Area Compliance Laboratories Corp. (Dongguan) is:
30M~200MHz: 5.0 dB
200M~1GHz: 6.2 dB
1G~6GHz: 4.45 dB
6G~18GHz: 5.23 dB

Table 2 – Values of U_{cispr}

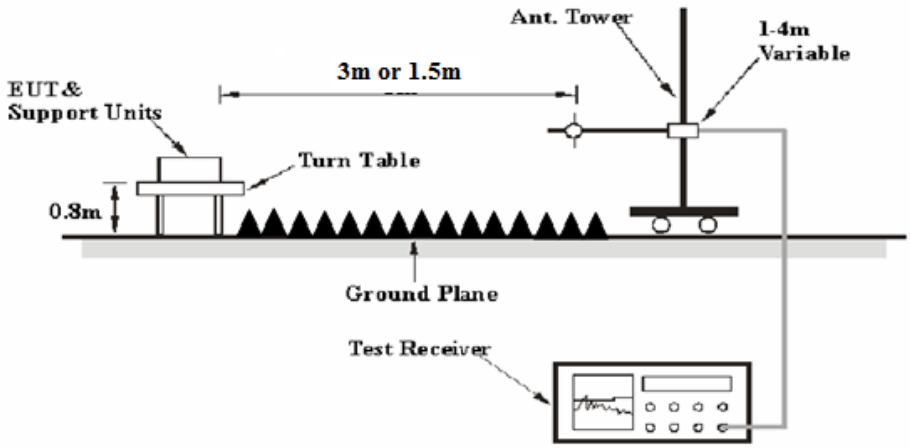
Measurement	U_{cispr}
Radiated disturbance (electric field strength at an OATS or in a SAC) (30 MHz to 1000 MHz)	6.3 dB
Radiated disturbance (electric field strength in a FAR) (1 GHz to 6 GHz)	5.2 dB
Radiated disturbance (electric field strength in a FAR) (6 GHz to 18 GHz)	5.5 dB

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209, and FCC 15.247 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 was connected to a 120 VAC/60 Hz 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 and the other support equipments were connected to the second 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-1 GHz, peak and Average detection modes for frequencies above 1 GHz.

According to C63.4, 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 (specific distance [3m]/test distance [1.5m]) dB
Extrapolation result = Corrected Amplitude (dBµV/m) - distance extrapolation factor (6dB)
or Limit line = Specific limits(dBµV) + 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:

Corrected Amplitude = Meter Reading + Antenna Loss + Cable Loss - 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:

Margin = Limit – Corrected Amplitude or Extrapolation result

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2014-05-05	2015-05-04
Sunol Sciences	Antenna	JB3	A060611-1	2011-09-06	2014-09-05
HP	Amplifier	8447E	2434A02181	2013-09-06	2014-09-05
R&S	Spectrum Analyzer	FSEM	DE31388	2014-05-05	2015-05-04
ETS LINDGREN	Horn Antenna	3115	000 527 35	2012-09-06	2015-09-05
Mini-Circuit	Amplifier	ZVA-213-S+	054201245	2014-02-19	2015-02-18
R&S	Spectrum Analyzer	FSP 38	100478	2013-06-16	2014-06-15
Ducommun Technolagies	Horn Antenna	ARH-4223-02	1007726-01 1304	2013-06-16	2014-06-15
Ducommun Technolagies	Horn Antenna	ARH-2823-02	1007726-01 1302	2013-06-16	2014-06-15
Quinstar	Amplifier	QLW-18405536-JO	15964001001	2013-09-06	2014-09-05

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests 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, Section 15.205, 15.209 and 15.247, with the worst margin reading of:

0.11 dB at **5850 MHz** in the **Horizontal** polarization for 802.11n ht40 Mode of 5GHz band

Test Data

Environmental Conditions

Temperature:	23.4~24.7 °C
Relative Humidity:	64~68 %
ATM Pressure:	100.1~100.8 kPa

The testing was performed by Dean Liu from 2014-05-06 to 2014-05-13

Mode: Transmitting

2.4GHz band:
802.11b 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: 2412 MHz									
2412	78.52	PK	H	25.67	4.42	0.00	108.61	N/A	N/A
2412	75.61	AV	H	25.67	4.42	0.00	105.70	N/A	N/A
2412	76.44	PK	V	25.67	4.42	0.00	106.53	N/A	N/A
2412	72.90	AV	V	25.67	4.42	0.00	102.99	N/A	N/A
2390	30.19	PK	H	25.61	4.39	0.00	60.19	74.00	13.81
2390	20.69	AV	H	25.61	4.39	0.00	50.69	54.00	3.31*
4824	39.36	PK	H	30.64	6.03	27.41	48.62	74.00	25.38
4824	30.86	AV	H	30.64	6.03	27.41	40.12	54.00	13.88
7236	31.22	PK	H	34.17	7.47	25.90	46.96	74.00	27.04
7236	19.01	AV	H	34.17	7.47	25.90	34.75	54.00	19.25
9648	28.99	PK	H	36.06	8.81	27.46	46.40	74.00	27.60
9648	19.70	AV	H	36.06	8.81	27.46	37.11	54.00	16.89
1153	30.15	PK	H	22.70	2.77	26.73	28.89	74.00	45.11
1153	13.16	AV	H	22.70	2.77	26.73	11.90	54.00	42.10
402	27.20	QP	H	16.25	2.43	21.78	24.10	46.00	21.90
Middle Channel: 2437 MHz									
2437	80.59	PK	H	25.74	4.41	0.00	110.74	N/A	N/A
2437	75.53	AV	H	25.74	4.41	0.00	105.68	N/A	N/A
2437	78.63	PK	V	25.74	4.41	0.00	108.78	N/A	N/A
2437	73.04	AV	V	25.74	4.41	0.00	103.19	N/A	N/A
4874	39.37	PK	H	30.77	6.09	27.42	48.81	74.00	25.19
4874	30.92	AV	H	30.77	6.09	27.42	40.36	54.00	13.64
7311	31.26	PK	H	34.35	7.51	25.88	47.24	74.00	26.76
7311	19.26	AV	H	34.35	7.51	25.88	35.24	54.00	18.76
9748	29.2	PK	H	36.30	8.83	27.24	47.09	74.00	26.91
9748	19.59	AV	H	36.30	8.83	27.24	37.48	54.00	16.52
1364	30.14	PK	H	23.25	3.05	26.97	29.47	74.00	44.53
1364	13.61	AV	H	23.25	3.05	26.97	12.94	54.00	41.06
1153	30.25	PK	H	22.70	2.77	26.73	28.99	74.00	45.01
1153	13.26	AV	H	22.70	2.77	26.73	12.00	54.00	42.00
402	27.70	QP	H	16.25	2.43	21.78	24.60	46.00	21.40
High Channel: 2462 MHz									
2462	79.02	PK	H	25.80	4.43	0.00	109.25	N/A	N/A
2462	74.81	AV	H	25.80	4.43	0.00	105.04	N/A	N/A
2462	77.35	PK	V	25.80	4.43	0.00	107.58	N/A	N/A
2462	74.16	AV	V	25.80	4.43	0.00	104.39	N/A	N/A
2483.5	29.95	PK	H	25.86	4.49	0.00	60.30	74.00	13.70
2483.5	18.77	AV	H	25.86	4.49	0.00	49.12	54.00	4.88
4924	40.08	PK	H	30.90	5.97	27.43	49.52	74.00	24.48
4924	32.03	AV	H	30.90	5.97	27.43	41.47	54.00	12.53
7386	32.07	PK	H	34.53	7.55	25.86	48.29	74.00	25.71
7386	18.61	AV	H	34.53	7.55	25.86	34.83	54.00	19.17
9848	32.68	PK	H	36.54	8.85	26.94	51.13	74.00	22.87
9848	19.35	AV	H	36.54	8.85	26.94	37.80	54.00	16.20
1153	30.43	PK	H	22.70	2.77	26.73	29.17	74.00	44.83
1153	13.28	AV	H	22.70	2.77	26.73	12.02	54.00	41.98
402	27.40	QP	H	16.25	2.43	21.78	24.30	46.00	21.70

*Within measurement uncertainty!

802.11g 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: 2412 MHz									
2412	77.32	PK	H	25.67	4.42	0.00	107.41	N/A	N/A
2412	68.68	AV	H	25.67	4.42	0.00	98.77	N/A	N/A
2412	75.38	PK	V	25.67	4.42	0.00	105.47	N/A	N/A
2412	66.18	AV	V	25.67	4.42	0.00	96.27	N/A	N/A
2483.5	41.66	PK	H	25.86	4.49	0.00	72.01	74.00	1.99*
2483.5	23.27	AV	H	25.86	4.49	0.00	53.62	54.00	0.38 *
4824	38.31	PK	H	30.64	6.03	27.41	47.57	74.00	26.43
4824	25.93	AV	H	30.64	6.03	27.41	35.19	54.00	18.81
7236	31.36	PK	H	34.17	7.47	25.90	47.10	74.00	26.90
7236	19.22	AV	H	34.17	7.47	25.90	34.96	54.00	19.04
9648	29.26	PK	H	36.06	8.81	27.46	46.67	74.00	27.33
9648	19.71	AV	H	36.06	8.81	27.46	37.12	54.00	16.88
1153	30.16	PK	H	22.70	2.77	26.73	28.90	74.00	45.10
1153	13.41	AV	H	22.70	2.77	26.73	12.15	54.00	41.85
402	28.40	QP	H	16.25	2.43	21.78	25.30	46.00	20.70
Middle Channel: 2437 MHz									
2437	78.72	PK	H	25.74	4.41	0.00	108.87	N/A	N/A
2437	69.19	AV	H	25.74	4.41	0.00	99.34	N/A	N/A
2437	77.48	PK	V	25.74	4.41	0.00	107.63	N/A	N/A
2437	68.11	AV	V	25.74	4.41	0.00	98.26	N/A	N/A
4874	37.70	PK	H	30.77	6.09	27.42	47.14	74.00	26.86
4874	26.43	AV	H	30.77	6.09	27.42	35.87	54.00	18.13
7311	31.27	PK	H	34.35	7.51	25.88	47.25	74.00	26.75
7311	19.20	AV	H	34.35	7.51	25.88	35.18	54.00	18.82
9748	29.13	PK	H	36.30	8.83	27.24	47.02	74.00	26.98
9748	19.59	AV	H	36.30	8.83	27.24	37.48	54.00	16.52
1364	30.27	PK	H	23.25	3.05	26.97	29.60	74.00	44.40
1364	13.71	AV	H	23.25	3.05	26.97	13.04	54.00	40.96
1153	30.35	PK	H	22.70	2.77	26.73	29.09	74.00	44.91
1153	13.42	AV	H	22.70	2.77	26.73	12.16	54.00	41.84
402	27.90	QP	H	16.25	2.43	21.78	24.80	46.00	21.20
High Channel: 2462 MHz									
2462	80.51	PK	H	25.80	4.43	0.00	110.74	N/A	N/A
2462	69.23	AV	H	25.80	4.43	0.00	99.46	N/A	N/A
2462	78.31	PK	V	25.80	4.43	0.00	108.54	N/A	N/A
2462	68.84	AV	V	25.80	4.43	0.00	99.07	N/A	N/A
2483.5	38.29	PK	H	25.86	4.49	0.00	68.64	74.00	5.36
2483.5	23.03	AV	H	25.86	4.49	0.00	53.38	54.00	0.62*
4924	38.30	PK	H	30.90	5.97	27.43	47.74	74.00	26.26
4924	26.00	AV	H	30.90	5.97	27.43	35.44	54.00	18.56
7386	31.27	PK	H	34.53	7.55	25.86	47.49	74.00	26.51
7386	19.28	AV	H	34.53	7.55	25.86	35.50	54.00	18.50
9848	29.38	PK	H	36.54	8.85	26.94	47.83	74.00	26.17
9848	19.85	AV	H	36.54	8.85	26.94	38.30	54.00	15.70
1153	30.29	PK	H	22.70	2.77	26.73	29.03	74.00	44.97
1153	13.46	AV	H	22.70	2.77	26.73	12.20	54.00	41.80
402	27.40	QP	H	16.25	2.43	21.78	24.30	46.00	21.70

*Within measurement uncertainty!

802.11 n 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: 2412 MHz									
2412	76.53	PK	H	25.67	4.42	0.00	106.62	N/A	N/A
2412	66.07	AV	H	25.67	4.42	0.00	96.16	N/A	N/A
2412	74.85	PK	V	25.67	4.42	0.00	104.94	N/A	N/A
2412	65.07	AV	V	25.67	4.42	0.00	95.16	N/A	N/A
2390	37.92	PK	H	25.61	4.39	0.00	67.92	74.00	6.08
2390	20.64	AV	H	25.61	4.39	0.00	50.64	54.00	3.36*
4824	35.34	PK	H	30.64	6.03	27.41	44.60	74.00	29.40
4824	21.46	AV	H	30.64	6.03	27.41	30.72	54.00	23.28
7236	31.03	PK	H	34.17	7.47	25.90	46.77	74.00	27.23
7236	18.82	AV	H	34.17	7.47	25.90	34.56	54.00	19.44
9648	28.90	PK	H	36.06	8.81	27.46	46.31	74.00	27.69
9648	19.42	AV	H	36.06	8.81	27.46	36.83	54.00	17.17
1153	30.01	PK	H	22.70	2.77	26.73	28.75	74.00	45.25
1153	13.19	AV	H	22.70	2.77	26.73	11.93	54.00	42.07
402	27.00	QP	H	16.25	2.43	21.78	23.90	46.00	22.10
Middle Channel: 2437 MHz									
2437	80.39	PK	H	25.74	4.41	0.00	110.54	N/A	N/A
2437	69.25	AV	H	25.74	4.41	0.00	99.40	N/A	N/A
2437	78.82	PK	V	25.74	4.41	0.00	108.97	N/A	N/A
2437	68.23	AV	V	25.74	4.41	0.00	98.38	N/A	N/A
4874	34.86	PK	H	30.77	6.09	27.42	44.30	74.00	29.70
4874	21.23	AV	H	30.77	6.09	27.42	30.67	54.00	23.33
7311	30.99	PK	H	34.35	7.51	25.88	46.97	74.00	27.03
7311	18.94	AV	H	34.35	7.51	25.88	34.92	54.00	19.08
9748	28.84	PK	H	36.30	8.83	27.24	46.73	74.00	27.27
9748	19.42	AV	H	36.30	8.83	27.24	37.31	54.00	16.69
1364	30.00	PK	H	23.25	3.05	26.97	29.33	74.00	44.67
1364	13.58	AV	H	23.25	3.05	26.97	12.91	54.00	41.09
1153	30.16	PK	H	22.70	2.77	26.73	28.90	74.00	45.10
1153	13.14	AV	H	22.70	2.77	26.73	11.88	54.00	42.12
402	27.60	QP	H	16.25	2.43	21.78	24.50	46.00	21.50
High Channel: 2462 MHz									
2462	76.55	PK	H	25.80	4.43	0.00	106.78	N/A	N/A
2462	66.08	AV	H	25.80	4.43	0.00	96.31	N/A	N/A
2462	74.68	PK	V	25.80	4.43	0.00	104.91	N/A	N/A
2462	65.06	AV	V	25.80	4.43	0.00	95.29	N/A	N/A
2483.5	36.65	PK	H	25.86	4.49	0.00	67.00	74.00	7.00
2483.5	20.50	AV	H	25.86	4.49	0.00	50.85	54.00	3.15*
4924	35.16	PK	H	30.90	5.97	27.43	44.60	74.00	29.40
4924	21.37	AV	H	30.90	5.97	27.43	30.81	54.00	23.19
7386	30.84	PK	H	34.53	7.55	25.86	47.06	74.00	26.94
7386	18.72	AV	H	34.53	7.55	25.86	34.94	54.00	19.06
9848	28.83	PK	H	36.54	8.85	26.94	47.28	74.00	26.72
9848	19.29	AV	H	36.54	8.85	26.94	37.74	54.00	16.26
1153	29.96	PK	H	22.70	2.77	26.73	28.70	74.00	45.30
1153	13.15	AV	H	22.70	2.77	26.73	11.89	54.00	42.11
402	27.10	QP	H	16.25	2.43	21.78	24.00	46.00	22.00

*Within measurement uncertainty!

802.11 n 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: 2422 MHz									
2422	70.77	PK	H	25.70	4.41	0.00	100.88	N/A	N/A
2422	60.23	AV	H	25.70	4.41	0.00	90.34	N/A	N/A
2422	70.35	PK	V	25.70	4.41	0.00	100.46	N/A	N/A
2422	60.01	AV	V	25.70	4.41	0.00	90.12	N/A	N/A
2390	41.80	PK	H	25.61	4.39	0.00	71.80	74.00	2.20*
2390	21.74	AV	H	25.61	4.39	0.00	51.74	54.00	2.26*
4844	32.65	PK	H	30.69	6.08	27.42	42.00	74.00	32.00
4844	19.04	AV	H	30.69	6.08	27.42	28.39	54.00	25.61
7266	30.44	PK	H	34.24	7.48	25.89	46.27	74.00	27.73
7266	18.17	AV	H	34.24	7.48	25.89	34.00	54.00	20.00
9688	28.68	PK	H	36.15	8.82	27.37	46.28	74.00	27.72
9688	19.54	AV	H	36.15	8.82	27.37	37.14	54.00	16.86
1153	29.86	PK	H	22.70	2.77	26.73	28.60	74.00	45.40
1153	13.11	AV	H	22.70	2.77	26.73	11.85	54.00	42.15
402	26.80	QP	H	16.25	2.43	21.78	23.70	46.00	22.30
Middle Channel: 2437 MHz									
2437	77.11	PK	H	25.74	4.41	0.00	107.26	N/A	N/A
2437	67.54	AV	H	25.74	4.41	0.00	97.69	N/A	N/A
2437	77.00	PK	V	25.74	4.41	0.00	107.15	N/A	N/A
2437	67.18	AV	V	25.74	4.41	0.00	97.33	N/A	N/A
4874	33.10	PK	H	30.77	6.09	27.42	42.54	74.00	31.46
4874	18.99	AV	H	30.77	6.09	27.42	28.43	54.00	25.57
7311	30.49	PK	H	34.35	7.51	25.88	46.47	74.00	27.53
7311	18.30	AV	H	34.35	7.51	25.88	34.28	54.00	19.72
9748	28.99	PK	H	36.30	8.83	27.24	46.88	74.00	27.12
9748	18.60	AV	H	36.30	8.83	27.24	36.49	54.00	17.51
1364	29.91	PK	H	23.25	3.05	26.97	29.24	74.00	44.76
1364	13.69	AV	H	23.25	3.05	26.97	13.02	54.00	40.98
1153	29.29	PK	H	22.70	2.77	26.73	28.03	74.00	45.97
1153	12.83	AV	H	22.70	2.77	26.73	11.57	54.00	42.43
402	26.90	QP	H	16.25	2.43	21.78	23.80	46.00	22.20
High Channel: 2452 MHz									
2452	72.93	PK	H	25.78	4.41	0.00	103.12	N/A	N/A
2452	61.84	AV	H	25.78	4.41	0.00	92.03	N/A	N/A
2452	71.03	PK	V	25.78	4.41	0.00	101.22	N/A	N/A
2452	61.40	AV	V	25.78	4.41	0.00	91.59	N/A	N/A
2483.5	39.75	PK	H	25.86	4.49	0.00	70.10	74.00	3.90*
2483.5	21.77	AV	H	25.86	4.49	0.00	52.12	54.00	1.88*
4904	33.72	PK	H	30.85	6.06	27.43	43.20	74.00	30.80
4904	20.17	AV	H	30.85	6.06	27.43	29.65	54.00	24.35
7356	30.32	PK	H	34.45	7.53	25.87	46.43	74.00	27.57
7356	18.39	AV	H	34.45	7.53	25.87	34.50	54.00	19.50
9808	28.86	PK	H	36.44	8.84	27.09	47.05	74.00	26.95
9808	18.80	AV	H	36.44	8.84	27.09	36.99	54.00	17.01
1153	29.16	PK	H	22.70	2.77	26.73	27.90	74.00	46.10
1153	13.66	AV	H	22.70	2.77	26.73	12.40	54.00	41.60
402	27.10	QP	H	16.25	2.43	21.78	24.00	46.00	22.00

*Within measurement uncertainty!

5725-5850 MHz band: （Note: For above 1GHz, the test distance is 1.5m）
802.11a Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5745 MHz										
5745	62.63	PK	H	32.15	6.10	0.00	100.88	94.88	N/A	N/A
5745	54.95	AV	H	32.15	6.10	0.00	93.20	87.20	N/A	N/A
5745	61.35	PK	V	32.15	6.10	0.00	99.60	93.60	N/A	N/A
5745	53.04	AV	V	32.15	6.10	0.00	91.29	85.29	N/A	N/A
5725	37.49	PK	H	32.15	6.04	0.00	75.68	69.68	74.00	4.32*
5725	20.74	AV	H	32.15	6.04	0.00	58.93	52.93	54.00	1.07*
11490	34.35	PK	H	37.89	9.86	26.14	55.96	49.96	74.00	24.04
11490	18.19	AV	H	37.89	9.86	26.14	39.80	33.80	54.00	20.20
17235	29.94	PK	H	40.91	14.02	25.63	59.24	53.24	74.00	20.76
17235	19.52	AV	H	40.91	14.02	25.63	48.82	42.82	54.00	11.18
2365	31.54	PK	H	25.55	4.32	27.31	34.10	28.10	74.00	45.90
2365	13.90	AV	H	25.55	4.32	27.31	16.46	10.46	54.00	43.54
3260	32.01	PK	H	28.03	6.20	27.32	38.92	32.92	74.00	41.08
3260	14.18	AV	H	28.03	6.20	27.32	21.09	15.09	54.00	38.91
326	27.90	QP	H	14.62	2.16	21.59	23.09	/	46.00	22.91
Middle Channel:5785 MHz										
5785	71.68	PK	H	32.16	6.12	0.00	109.96	103.96	N/A	N/A
5785	60.82	AV	H	32.16	6.12	0.00	99.10	93.10	N/A	N/A
5785	69.29	PK	V	32.16	6.12	0.00	107.57	101.57	N/A	N/A
5785	59.80	AV	V	32.16	6.12	0.00	98.08	92.08	N/A	N/A
11570	36.58	PK	H	37.90	9.76	26.07	58.17	52.17	74.00	21.83
11570	20.51	AV	H	37.90	9.76	26.07	42.10	36.10	54.00	17.90
17355	30.08	PK	H	41.63	13.37	25.63	59.45	53.45	74.00	20.55
17355	19.50	AV	H	41.63	13.37	25.63	48.87	42.87	54.00	11.13
1571	30.07	PK	H	23.74	3.23	27.69	29.35	23.35	74.00	50.65
1571	13.73	AV	H	23.74	3.23	27.69	13.01	7.01	54.00	46.99
2365	31.48	PK	H	25.55	4.32	27.31	34.04	28.04	74.00	45.96
2365	14.02	AV	H	25.55	4.32	27.31	16.58	10.58	54.00	43.42
3260	32.01	PK	H	28.03	6.20	27.32	38.92	32.92	74.00	41.08
3260	14.31	AV	H	28.03	6.20	27.32	21.22	15.22	54.00	38.78
326	28.30	QP	H	14.62	2.16	21.59	23.49	/	46.00	22.51

High Channel:5825 MHz										
5825	64.34	PK	H	32.17	6.24	0.00	102.75	96.75	N/A	N/A
5825	56.72	AV	H	32.17	6.24	0.00	95.13	89.13	N/A	N/A
5825	63.45	PK	V	32.17	6.24	0.00	101.86	95.86	N/A	N/A
5825	55.97	AV	V	32.17	6.24	0.00	94.38	88.38	N/A	N/A
5850	34.99	PK	H	32.17	6.34	0.00	73.50	67.50	74.00	6.50
5850	20.16	AV	H	32.17	6.34	0.00	58.67	52.67	54.00	1.33*
11650	34.17	PK	H	37.90	9.63	25.75	55.95	49.95	74.00	24.05
11650	18.12	AV	H	37.90	9.63	25.75	39.90	33.90	54.00	20.10
17475	29.94	PK	H	42.35	12.73	25.39	59.63	53.63	74.00	20.37
17475	19.36	AV	H	42.35	12.73	25.39	49.05	43.05	54.00	10.95
2365	31.26	PK	H	25.55	4.32	27.31	33.82	27.82	74.00	46.18
2365	13.7	AV	H	25.55	4.32	27.31	16.26	10.26	54.00	43.74
3260	31.88	PK	H	28.03	6.20	27.32	38.79	32.79	74.00	41.21
3260	14.02	AV	H	28.03	6.20	27.32	20.93	14.93	54.00	39.07
326	28.10	QP	H	14.62	2.16	21.59	23.29	/	46.00	22.71

*Within measurement uncertainty!

802.11n ht20 Mode:

Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5745 MHz										
5745	68.69	PK	H	32.15	6.10	0.00	106.94	100.94	N/A	N/A
5745	59.34	AV	H	32.15	6.10	0.00	97.59	91.59	N/A	N/A
5745	67.21	PK	V	32.15	6.10	0.00	105.46	99.46	N/A	N/A
5745	58.95	AV	V	32.15	6.10	0.00	97.20	91.20	N/A	N/A
5725	37.35	PK	H	32.15	6.04	0.00	75.54	69.54	74.00	4.46
5725	20.86	AV	H	32.15	6.04	0.00	59.05	53.05	54.00	0.95*
11490	36.37	PK	H	37.89	9.86	26.14	57.98	51.98	74.00	22.02
11490	20.36	AV	H	37.89	9.86	26.14	41.97	35.97	54.00	18.03
17235	30.12	PK	H	40.91	14.02	25.63	59.42	53.42	74.00	20.58
17235	19.64	AV	H	40.91	14.02	25.63	48.94	42.94	54.00	11.06
2365	31.61	PK	H	25.55	4.32	27.31	34.17	28.17	74.00	45.83
2365	14.08	AV	H	25.55	4.32	27.31	16.64	10.64	54.00	43.36
3260	32.07	PK	H	28.03	6.20	27.32	38.98	32.98	74.00	41.02
3260	14.32	AV	H	28.03	6.20	27.32	21.23	15.23	54.00	38.77
326	28.22	QP	H	14.62	2.16	21.59	23.41	/	46.00	22.59
Middle Channel:5785 MHz										
5785	74.64	PK	H	32.16	6.12	0.00	112.92	106.92	N/A	N/A
5785	64.34	AV	H	32.16	6.12	0.00	102.62	96.62	N/A	N/A
5785	74.26	PK	V	32.16	6.12	0.00	112.54	106.54	N/A	N/A
5785	64.18	AV	V	32.16	6.12	0.00	102.46	96.46	N/A	N/A
11570	38.68	PK	H	37.90	9.76	26.07	60.27	54.27	74.00	19.73
11570	22.53	AV	H	37.90	9.76	26.07	44.12	38.12	54.00	15.88
17355	30.30	PK	H	41.63	13.37	25.63	59.67	53.67	74.00	20.33
17355	19.79	AV	H	41.63	13.37	25.63	49.16	43.16	54.00	10.84
1571	30.16	PK	H	23.74	3.23	27.69	29.44	23.44	74.00	50.56
1571	13.70	AV	H	23.74	3.23	27.69	12.98	6.98	54.00	47.02
2365	31.59	PK	H	25.55	4.32	27.31	34.15	28.15	74.00	45.85
2365	14.23	AV	H	25.55	4.32	27.31	16.79	10.79	54.00	43.21
3260	32.16	PK	H	28.03	6.20	27.32	39.07	33.07	74.00	40.93
3260	14.55	AV	H	28.03	6.20	27.32	21.46	15.46	54.00	38.54
326	28.50	QP	H	14.62	2.16	21.59	23.69	/	46.00	22.31

High Channel:5825 MHz										
5825	68.67	PK	H	32.17	6.24	0.00	107.08	101.08	N/A	N/A
5825	60.01	AV	H	32.17	6.24	0.00	98.42	92.42	N/A	N/A
5825	68.60	PK	V	32.17	6.24	0.00	107.01	101.01	N/A	N/A
5825	60.26	AV	V	32.17	6.24	0.00	98.67	92.67	N/A	N/A
5850	35.50	PK	H	32.17	6.34	0.00	74.01	68.01	74.00	5.99
5850	21.20	AV	H	32.17	6.34	0.00	59.71	53.71	54.00	0.29*
11650	36.25	PK	H	37.90	9.63	25.75	58.03	52.03	74.00	21.97
11650	20.19	AV	H	37.90	9.63	25.75	41.97	35.97	54.00	18.03
17475	30.03	PK	H	42.35	12.73	25.39	59.72	53.72	74.00	20.28
17475	19.46	AV	H	42.35	12.73	25.39	49.15	43.15	54.00	10.85
2365	31.61	PK	H	25.55	4.32	27.31	34.17	28.17	74.00	45.83
2365	13.85	AV	H	25.55	4.32	27.31	16.41	10.41	54.00	43.59
3260	32.02	PK	H	28.03	6.20	27.32	38.93	32.93	74.00	41.07
3260	14.19	AV	H	28.03	6.20	27.32	21.10	15.10	54.00	38.90
326	27.80	QP	H	14.62	2.16	21.59	22.99	/	46.00	23.01

*Within measurement uncertainty!

802.11n ht40 Mode:

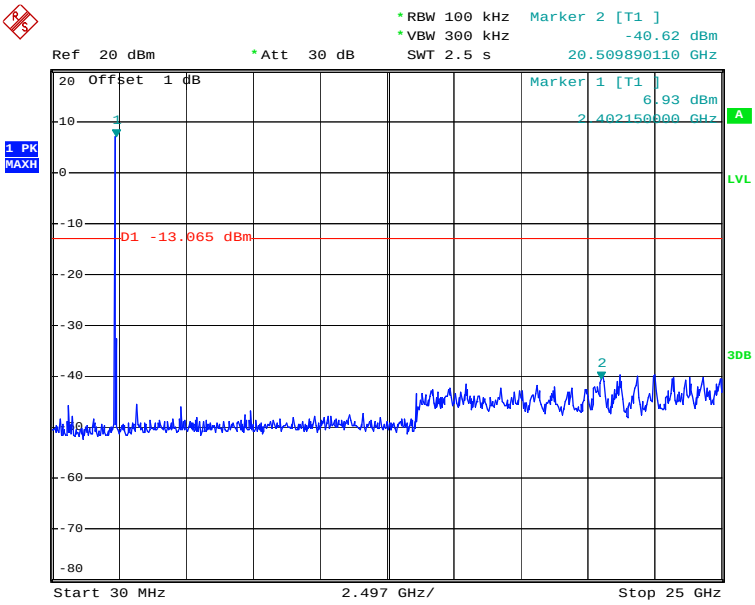
Frequency	Receiver		Rx Antenna		Cable loss (dB)	Amplifier Gain (dB)	Corrected Amplitude (dBμV/m)	Extrapolation result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
(MHz)	Reading (dBμV)	Detector (PK/QP/AV)	Polar (H/V)	Factor (dB)						
Low Channel:5755 MHz										
5755	64.14	PK	H	32.15	6.11	0.00	102.40	96.40	N/A	N/A
5755	53.59	AV	H	32.15	6.11	0.00	91.85	85.85	N/A	N/A
5755	63.55	PK	V	32.15	6.11	0.00	101.81	95.81	N/A	N/A
5755	53.59	AV	V	32.15	6.11	0.00	91.85	85.85	N/A	N/A
5725	40.40	PK	H	32.15	6.04	0.00	78.59	72.59	74.00	1.41*
5725	21.52	AV	H	32.15	6.04	0.00	59.71	53.71	54.00	0.29*
11490	35.25	PK	H	37.89	9.86	26.14	56.86	50.86	74.00	23.14
11490	20.29	AV	H	37.89	9.86	26.14	41.90	35.90	54.00	18.10
17235	31.07	PK	H	40.91	14.02	25.63	60.37	54.37	74.00	19.63
17235	19.55	AV	H	40.91	14.02	25.63	48.85	42.85	54.00	11.15
2365	31.51	PK	H	25.55	4.32	27.31	34.07	28.07	74.00	45.93
2365	13.87	AV	H	25.55	4.32	27.31	16.43	10.43	54.00	43.57
3260	33.07	PK	H	28.03	6.20	27.32	39.98	33.98	74.00	40.02
3260	14.17	AV	H	28.03	6.20	27.32	21.08	15.08	54.00	38.92
326	28.00	QP	H	14.62	2.16	21.59	23.19	/	46.00	22.81
Middle Channel:5795 MHz										
5795	73.44	PK	H	32.16	6.13	0.00	111.73	105.73	N/A	N/A
5795	61.93	AV	H	32.16	6.13	0.00	100.22	94.22	N/A	N/A
5795	72.83	PK	V	32.16	6.13	0.00	111.12	105.12	N/A	N/A
5795	60.29	AV	V	32.16	6.13	0.00	98.58	92.58	N/A	N/A
5850	34.48	PK	H	32.17	6.34	0.00	72.99	66.99	74.00	7.01
5850	21.38	AV	H	32.17	6.34	0.00	59.89	53.89	54.00	0.11 *
11590	38.25	PK	H	37.90	9.73	26.06	59.82	53.82	74.00	20.18
11590	23.11	AV	H	37.90	9.73	26.06	44.68	38.68	54.00	15.32
17385	29.8	PK	H	41.81	13.21	25.63	59.19	53.19	74.00	20.81
17385	19.32	AV	H	41.81	13.21	25.63	48.71	42.71	54.00	11.29
2365	31.41	PK	H	25.55	4.32	27.31	33.97	27.97	74.00	46.03
2365	14.03	AV	H	25.55	4.32	27.31	16.59	10.59	54.00	43.41
3260	31.88	PK	H	28.03	6.20	27.32	38.79	32.79	74.00	41.21
3260	14.11	AV	H	28.03	6.20	27.32	21.02	15.02	54.00	38.98
326	27.73	QP	H	14.62	2.16	21.59	22.99	/	46.00	23.08

*Within measurement uncertainty!

Conducted Spurious Emissions at Antenna Port

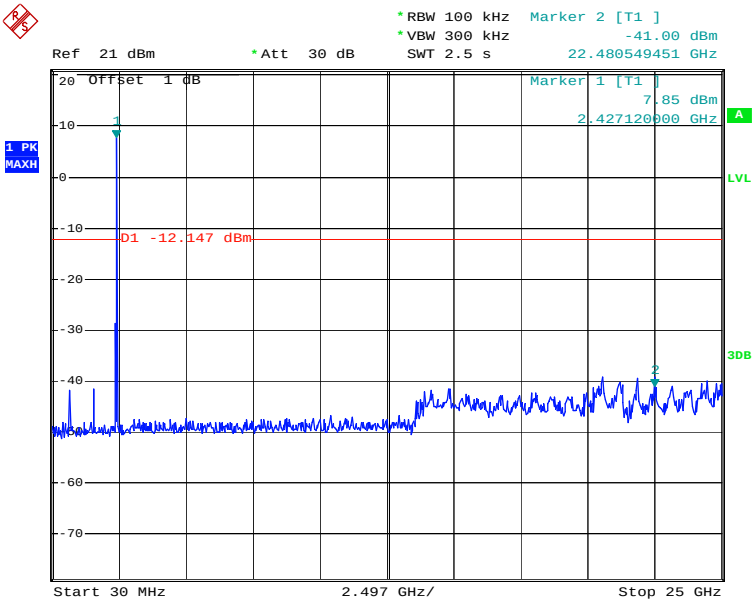
2.4GHz band:

Chain0: 802.11b Low Channel



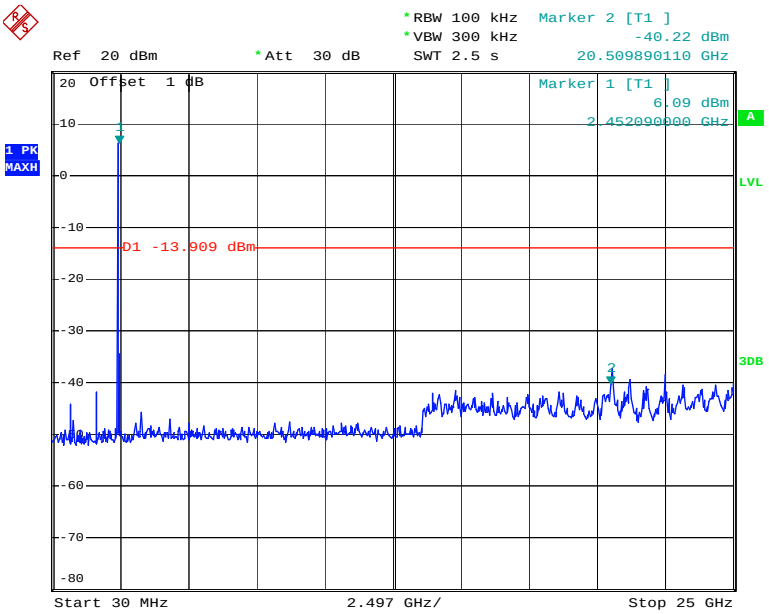
Date: 6.MAY.2014 10:41:26

Chain0: 802.11b Middle Channel



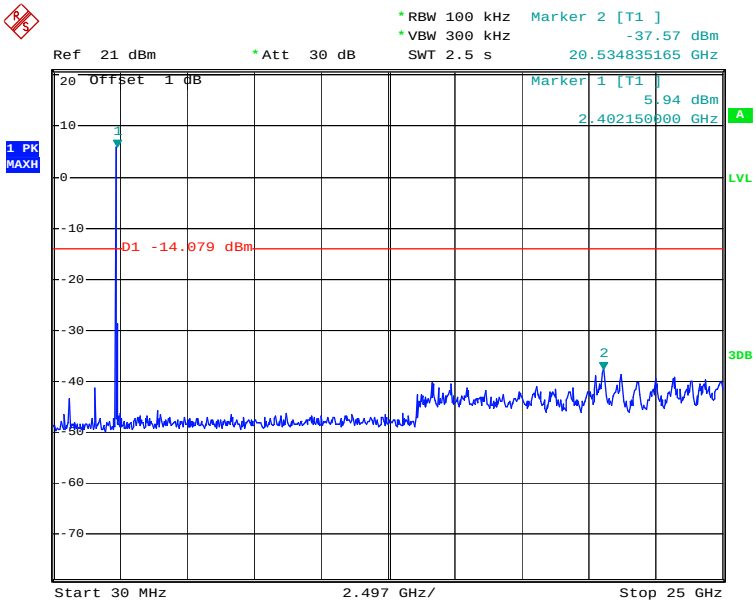
Date: 12.MAY.2014 18:04:21

Chain0: 802.11b High Channel



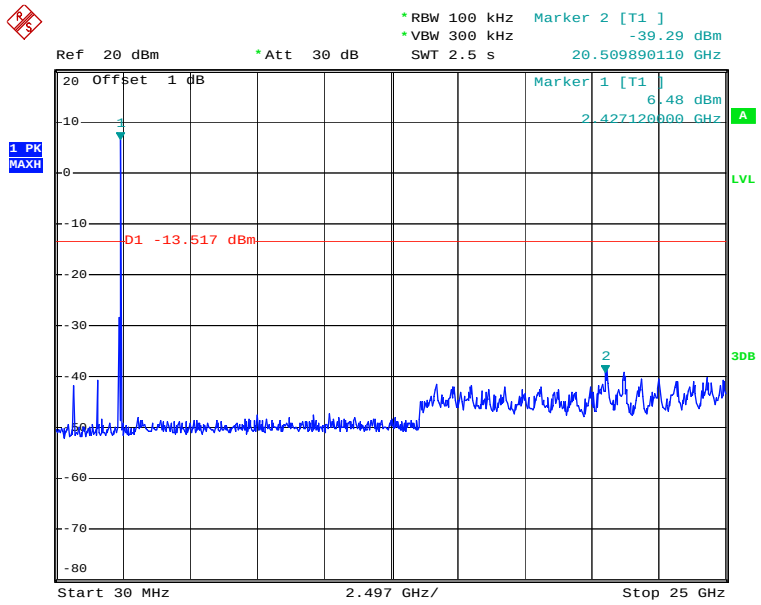
Date: 6.MAY.2014 10:44:29

Chain1: 802.11b Low Channel



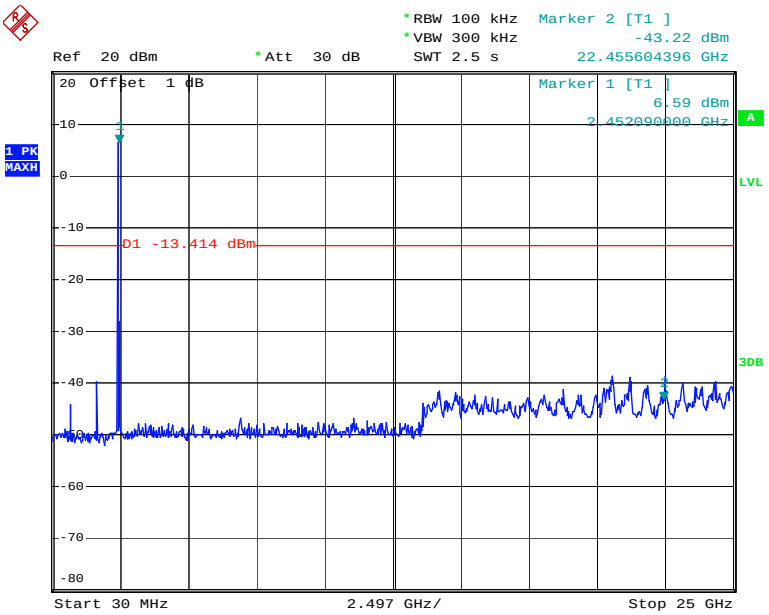
Date: 9.MAY.2014 15:27:57

Chain1: 802.11b Middle Channel



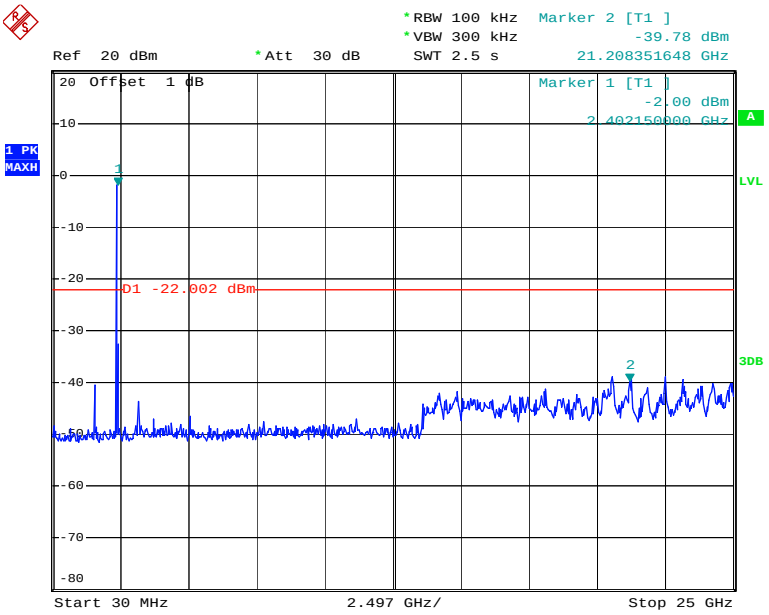
Date: 12.MAY.2014 18:05:34

Chain1: 802.11b High Channel



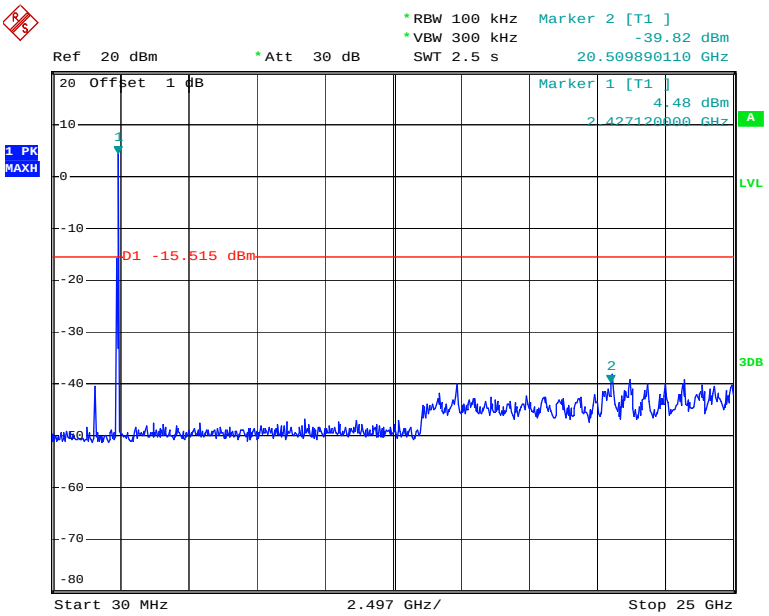
Date: 9.MAY.2014 15:44:32

Chain0: 802.11g Low Channel



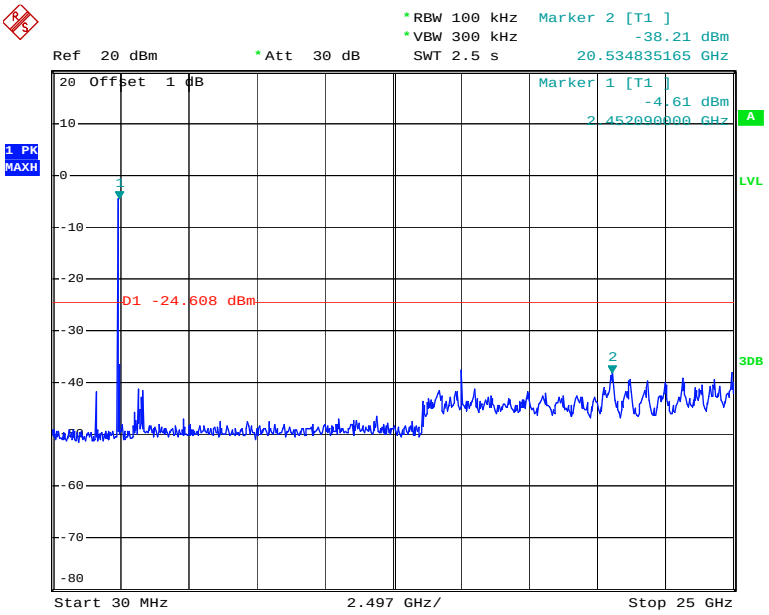
Date: 6.MAY.2014 10:51:24

Chain0: 802.11g Middle Channel



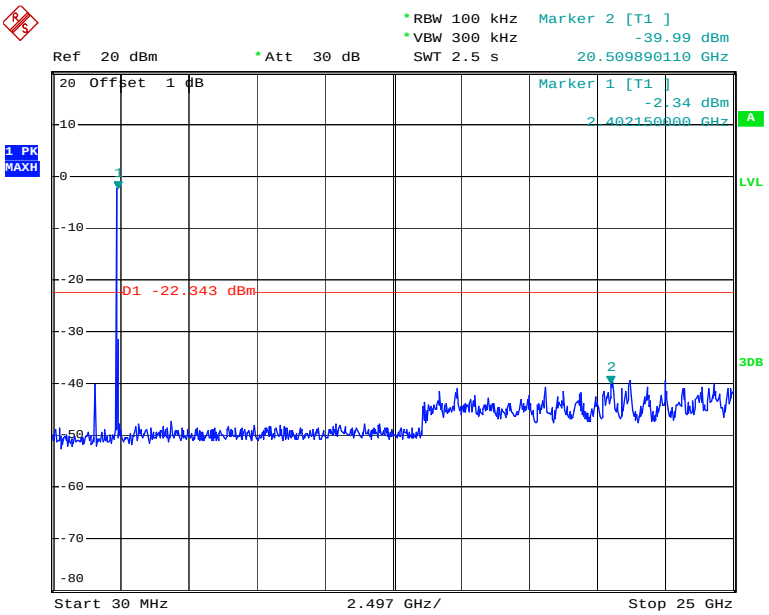
Date: 12.MAY.2014 18:08:09

Chain0: 802.11g High Channel



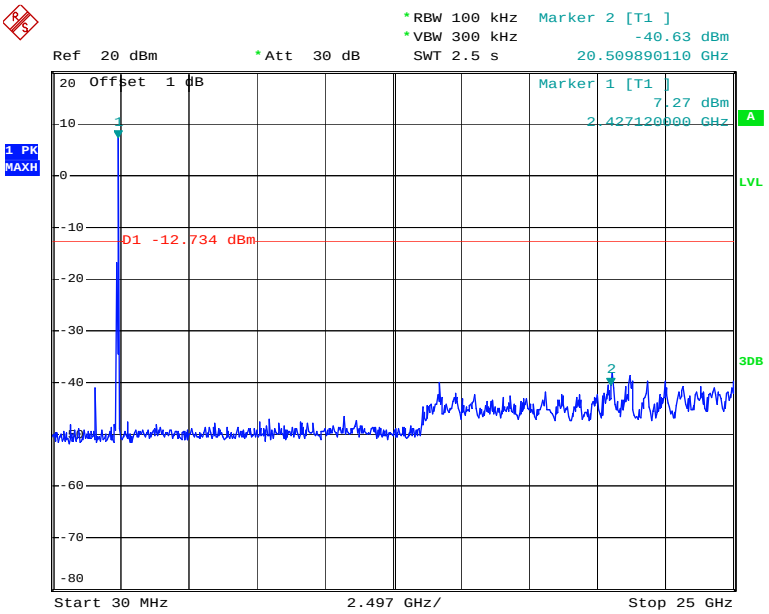
Date: 28.APR.2014 13:07:58

Chain1: 802.11g Low Channel



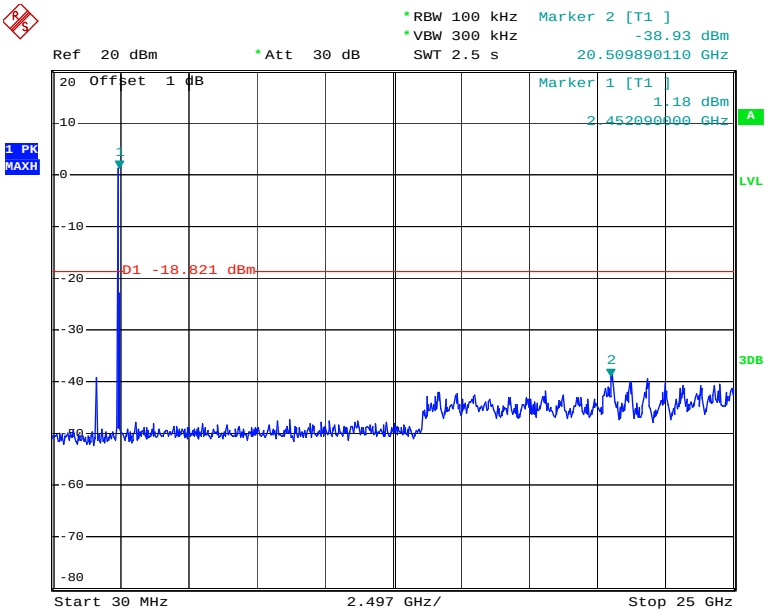
Date: 9.MAY.2014 15:50:31

Chain1: 802.11g Middle Channel



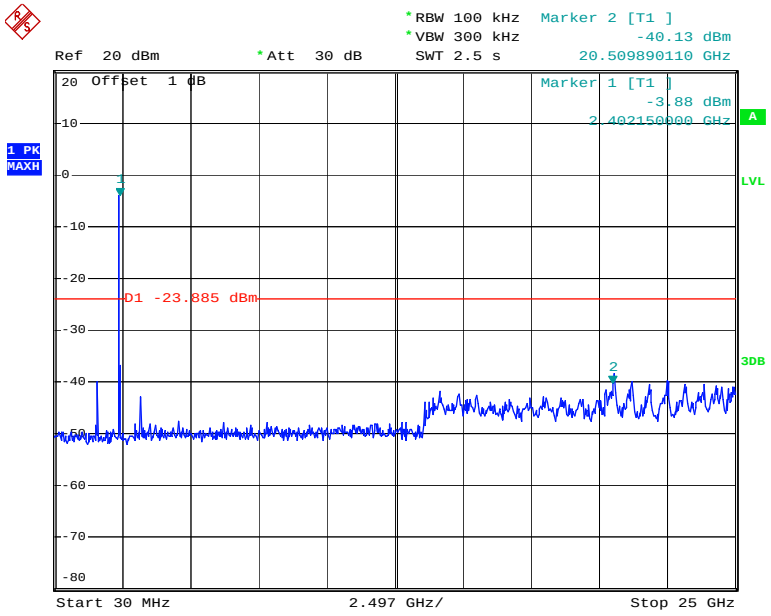
Date: 12.MAY.2014 18:10:10

Chain1: 802.11g High Channel



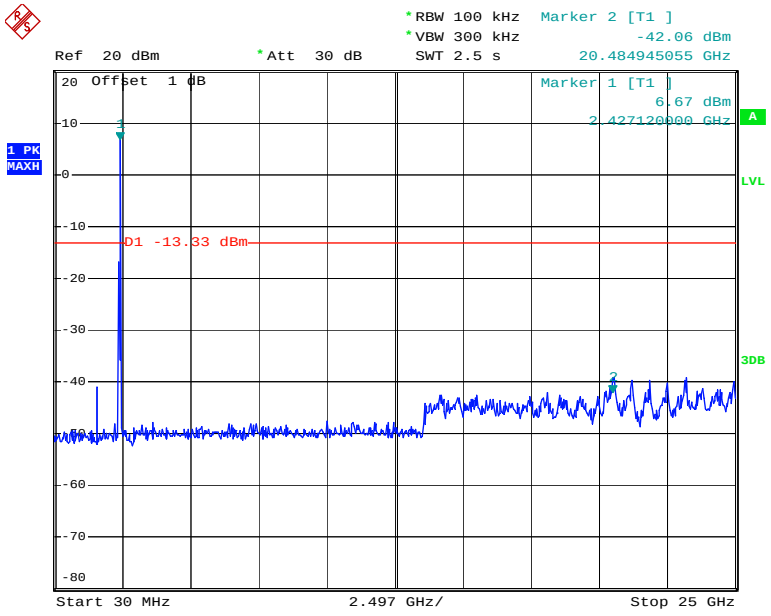
Date: 9.MAY.2014 16:00:32

Chain 0: 802.11n ht20 Low Channel



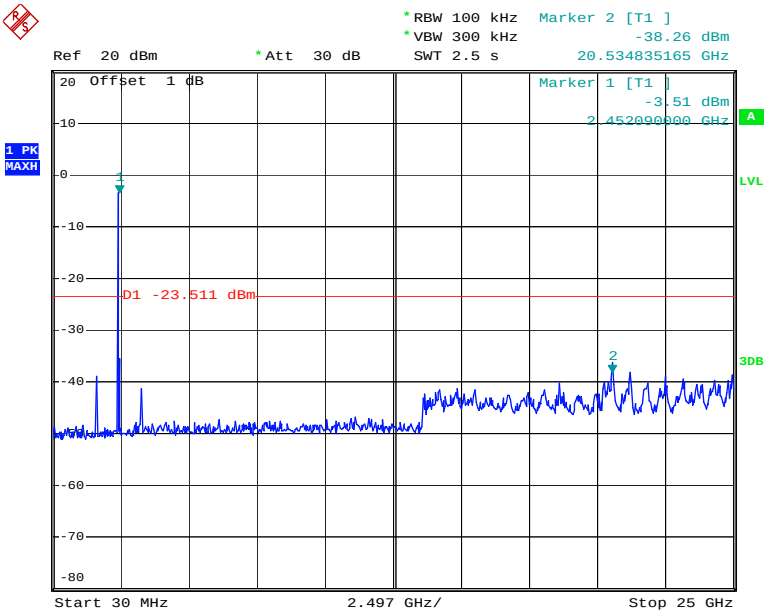
Date: 6.MAY.2014 10:59:35

Chain 0: 802.11n ht20 Middle Channel



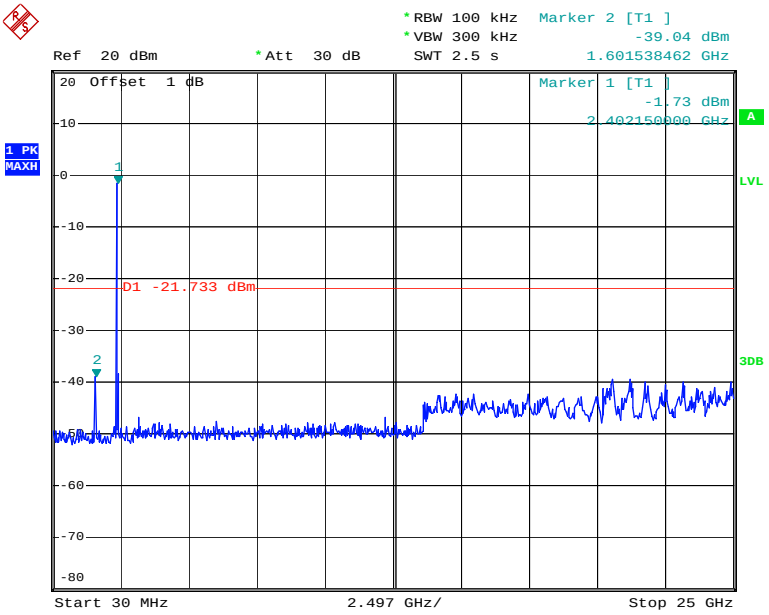
Date: 12.MAY.2014 18:12:05

Chain 0: 802.11n ht20 High Channel



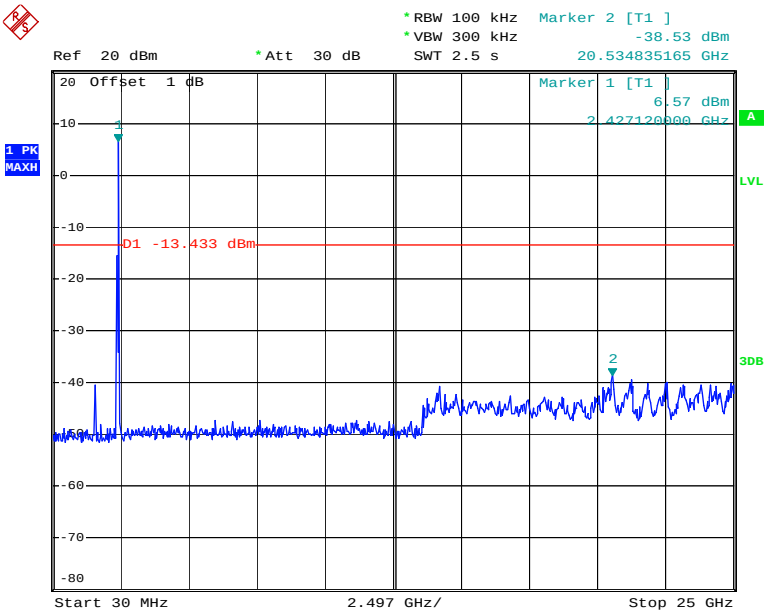
Date: 6.MAY.2014 11:11:43

Chain 1: 802.11n ht20 Low Channel



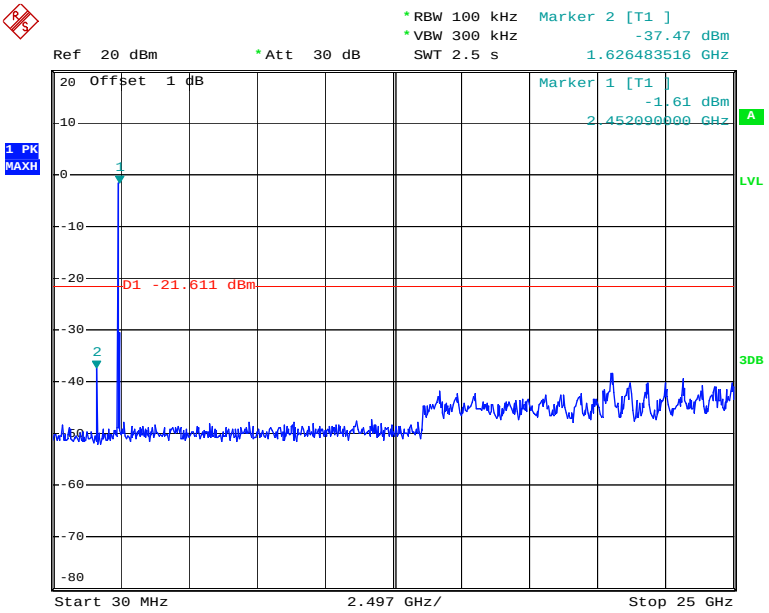
Date: 6.MAY.2014 11:02:01

Chain 1: 802.11n ht20 Middle Channel



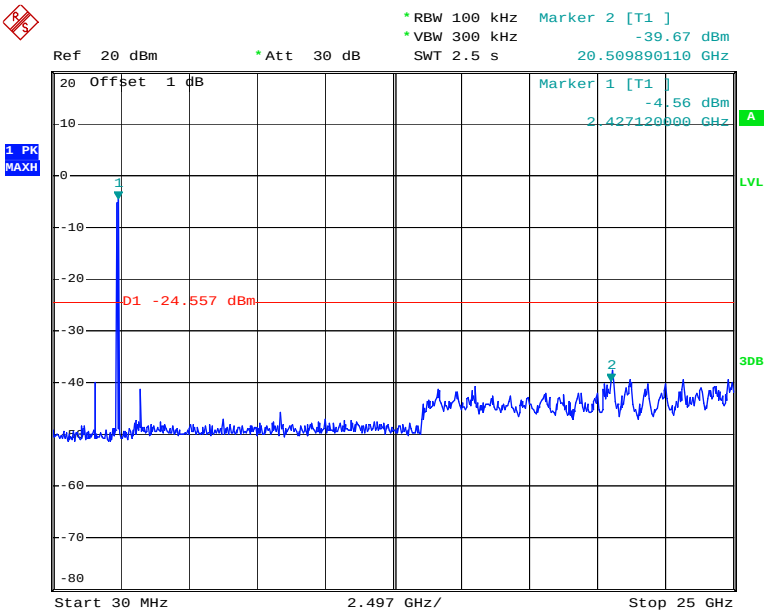
Date: 12.MAY.2014 18:13:25

Chain 1: 802.11n ht20 High Channel



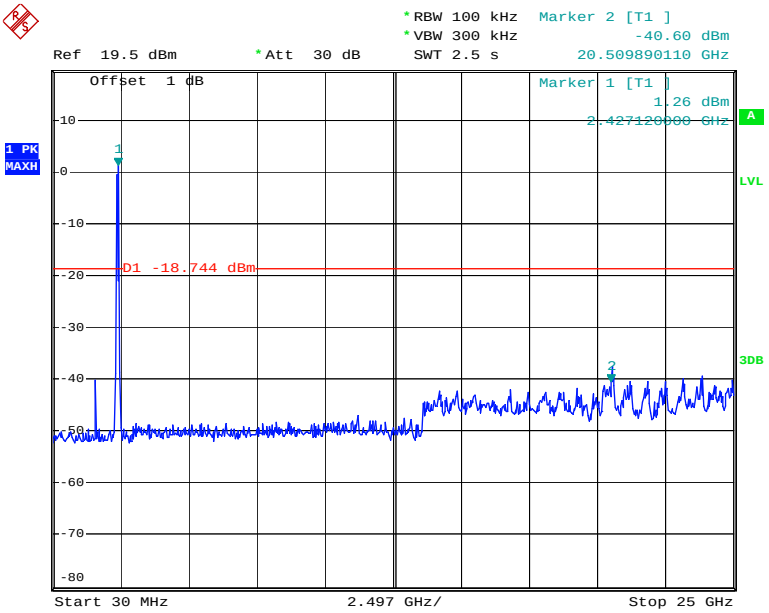
Date: 6.MAY.2014 11:30:30

Chain 0: 802.11n ht40 Low Channel



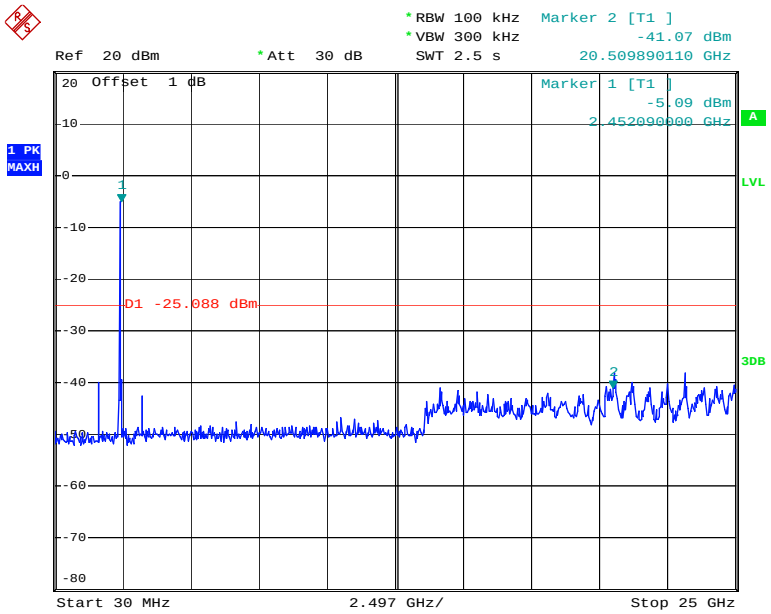
Date: 6.MAY.2014 11:14:47

Chain 0: 802.11n ht40 Middle Channel



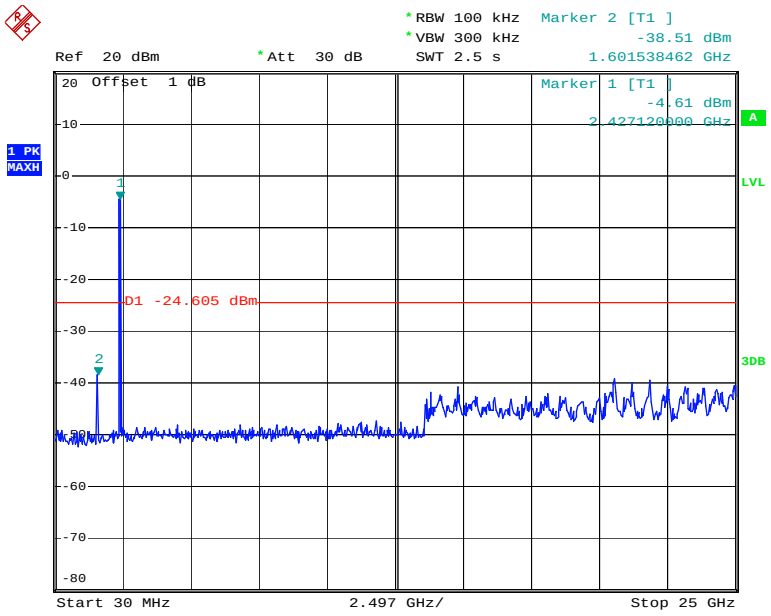
Date: 13.MAY.2014 11:19:43

Chain 0: 802.11n ht40 High Channel



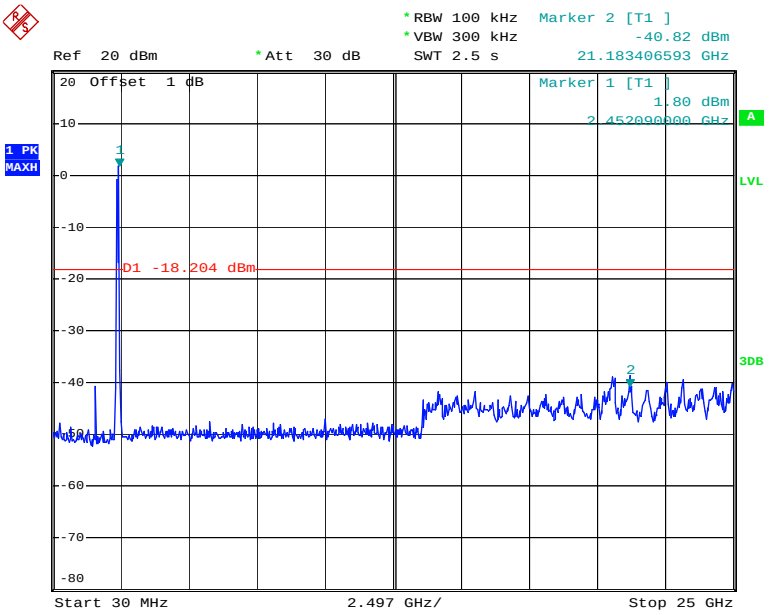
Date: 6.MAY.2014 11:26:21

Chain 1: 802.11n ht40 Low Channel



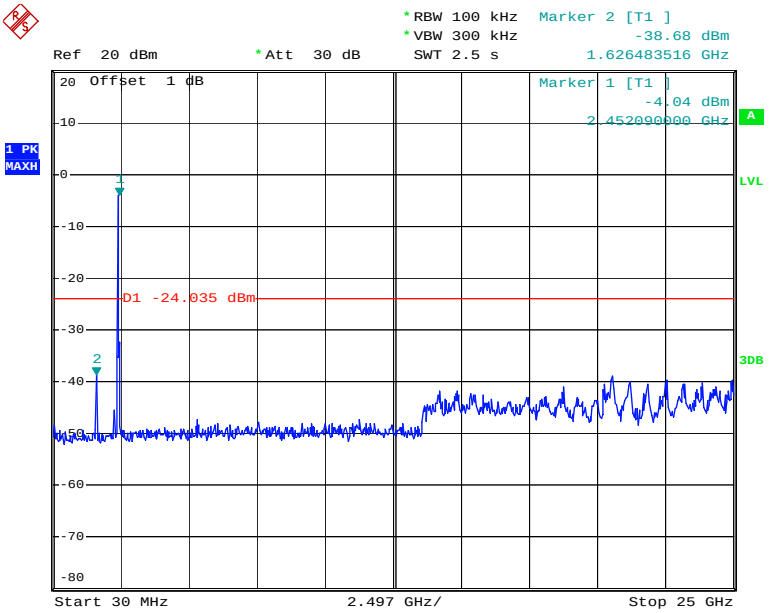
Date: 6.MAY.2014 11:16:51

Chain 1: 802.11n ht40 Middle Channel



Date: 12.MAY.2014 18:18:55

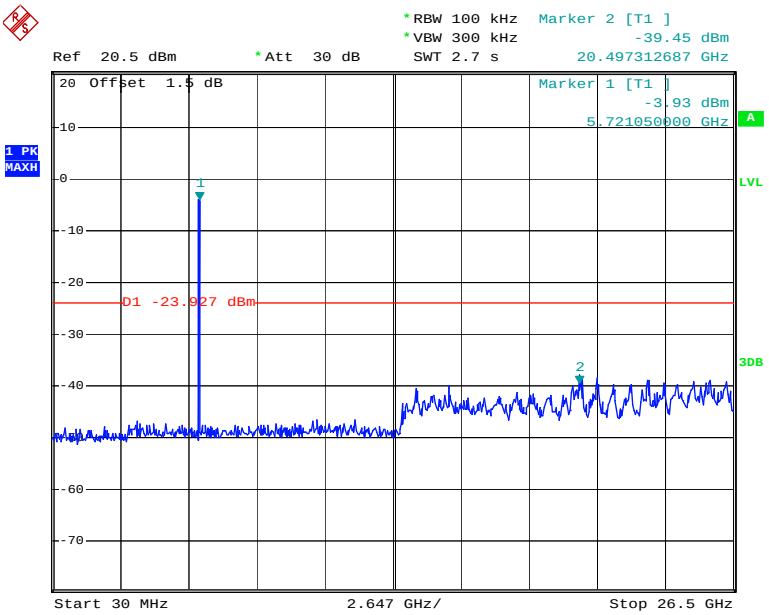
Chain 1: 802.11n ht40 High Channel



Date: 6.MAY.2014 11:28:17

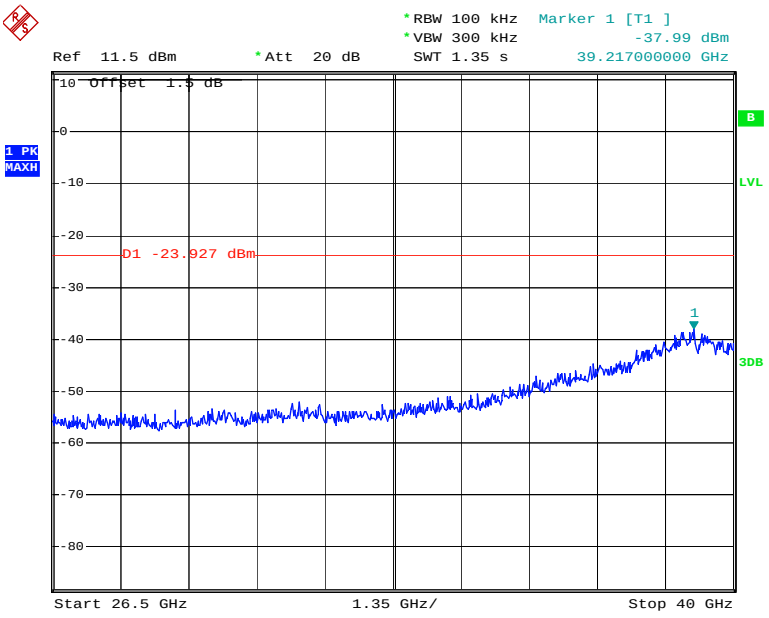
5725-5850MHz band:

Chain0: 802.11a Low Channel: 30MHz-26.5GHz



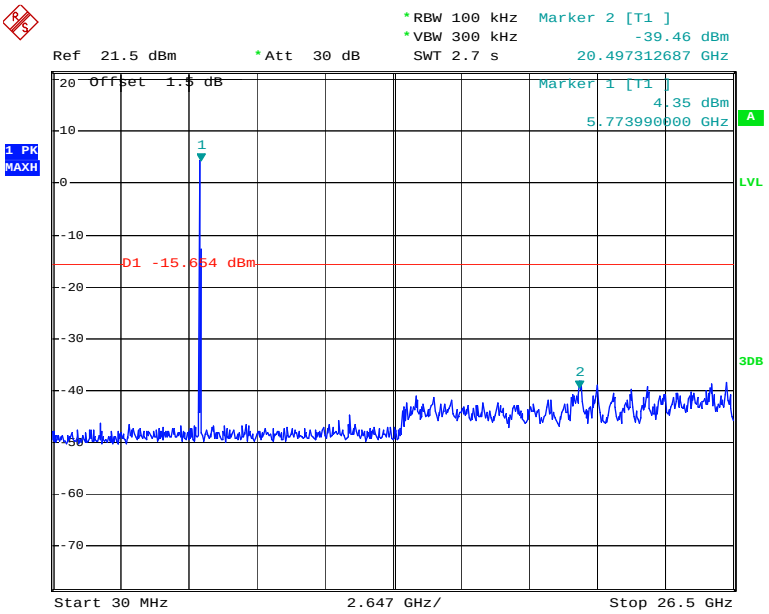
Date: 7.MAY.2014 09:23:33

Chain0: 802.11a Low Channel 26.5 GHz-40 GHz



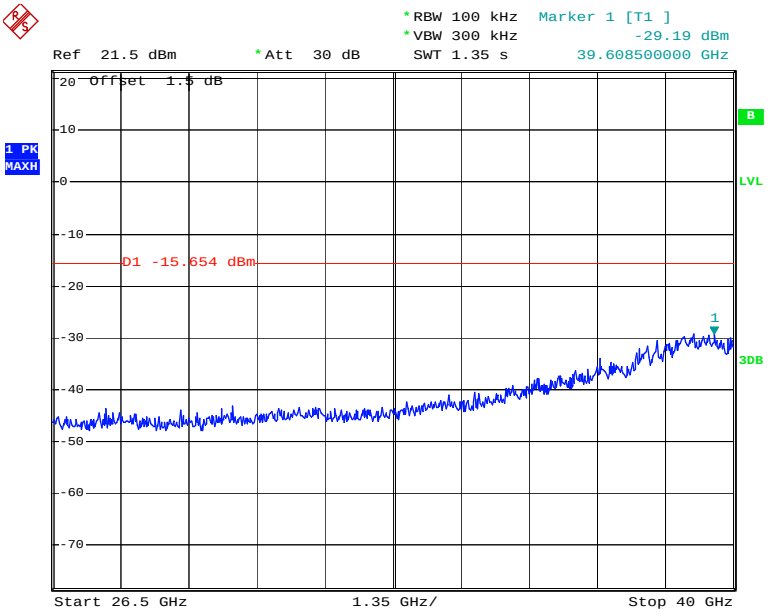
Date: 7.MAY.2014 09:24:29

Chain0: 802.11a Middle Channel 30MHz-26.5GHz



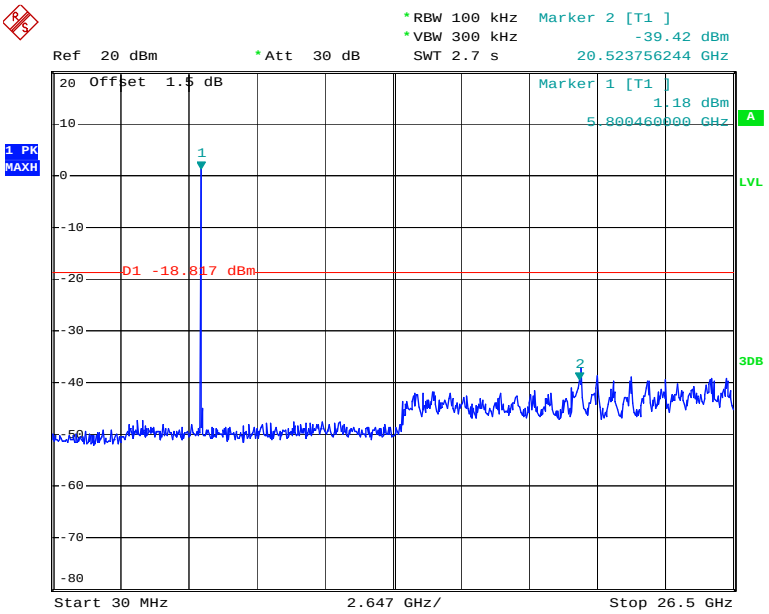
Date: 12.MAY.2014 18:25:38

Chain0: 802.11a Middle Channel 26.5GHz-40GHz



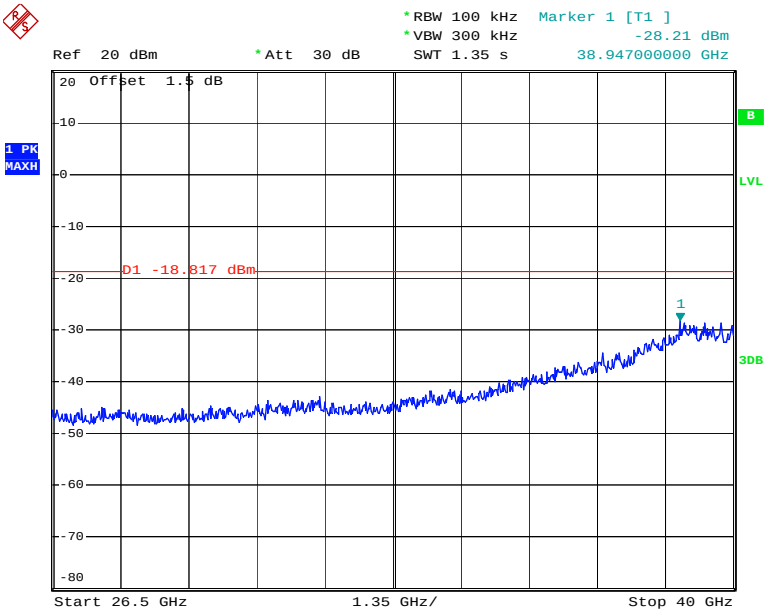
Date: 12.MAY.2014 18:26:13

Chain0: 802.11a High Channel 30MHz-26.5GHz



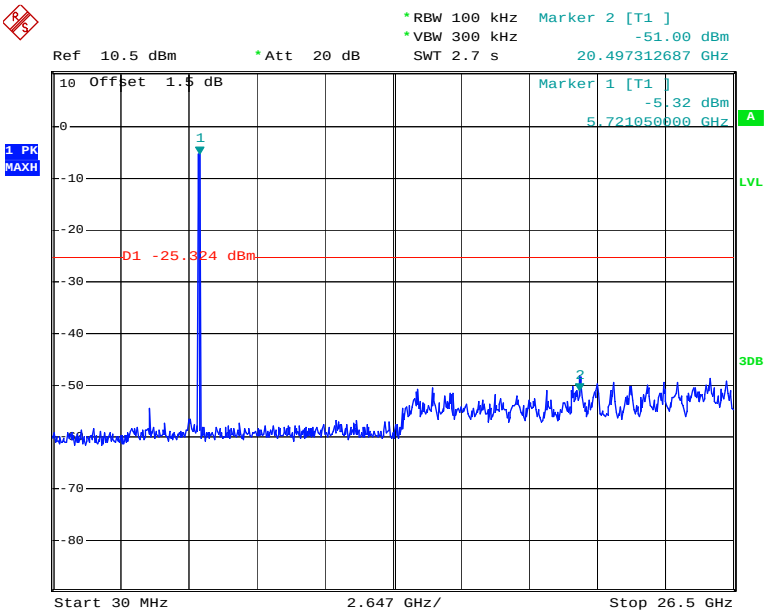
Date: 7.MAY.2014 09:39:11

Chain0: 802.11a High Channel 26.5GHz-40GHz



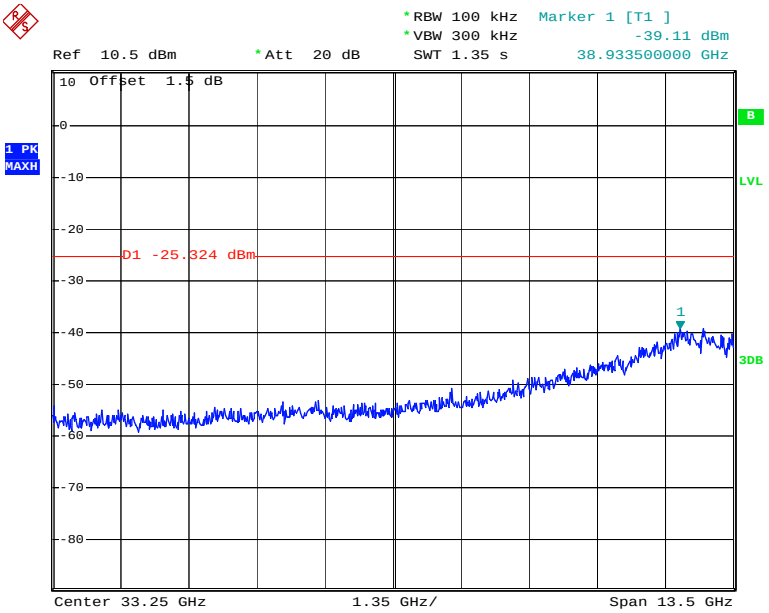
Date: 7.MAY.2014 09:39:38

Chain1: 802.11a Low Channel 30MHz-26.5GHz



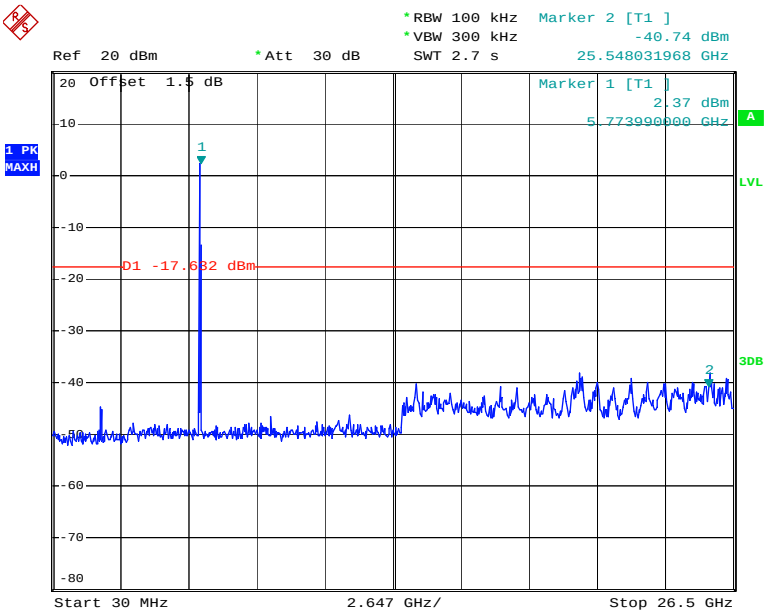
Date: 9.MAY.2014 16:19:28

Chain1: 802.11a Low Channel 26.5GHz-40GHz



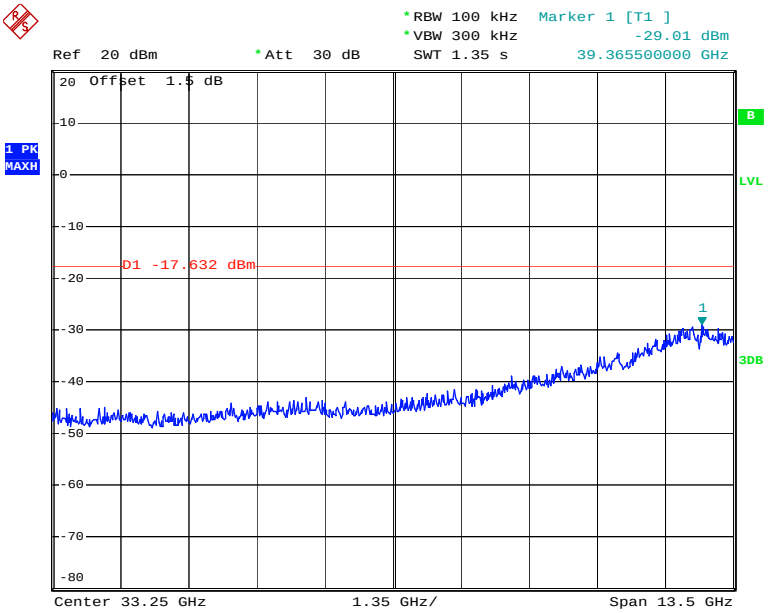
Date: 9.MAY.2014 16:19:51

Chain1: 802.11a Middle Channel 30MHz-26.5GHz



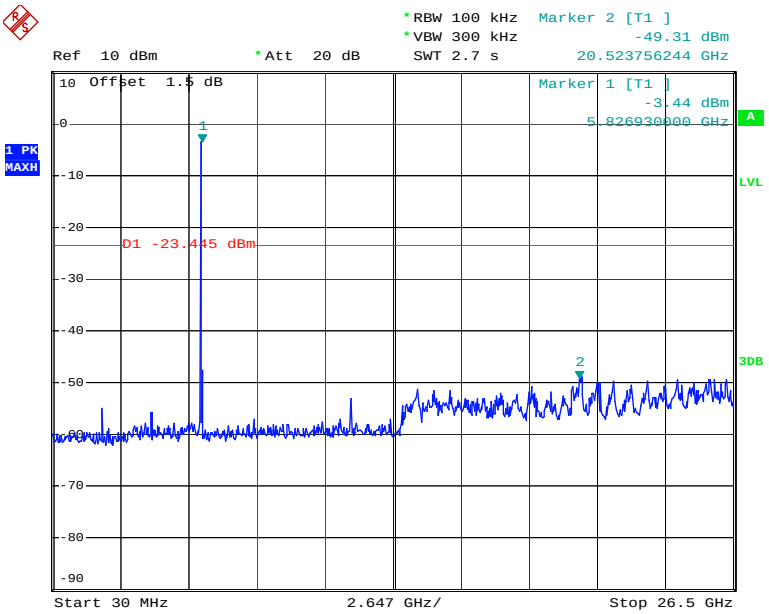
Date: 12.MAY.2014 18:27:38

Chain1: 802.11a Middle Channel 26.5GHz-40GHz



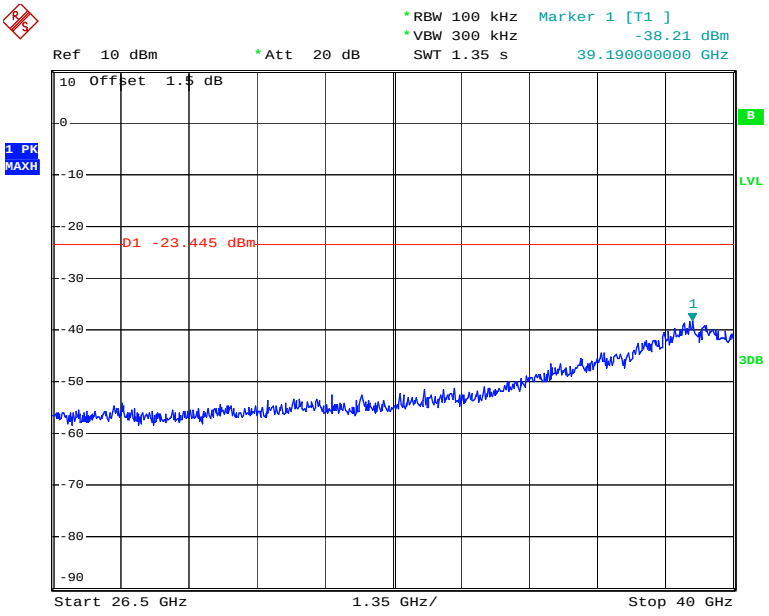
Date: 12.MAY.2014 18:27:59

Chain1: 802.11a High Channel 30MHz-26.5GHz



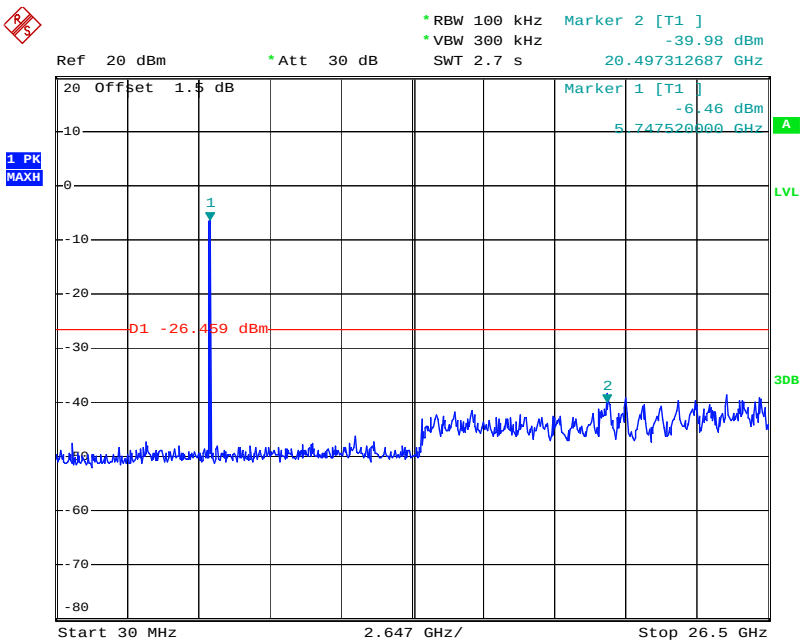
Date: 9.MAY.2014 16:25:32

Chain1: 802.11a High Channel 26.5GHz-40GHz



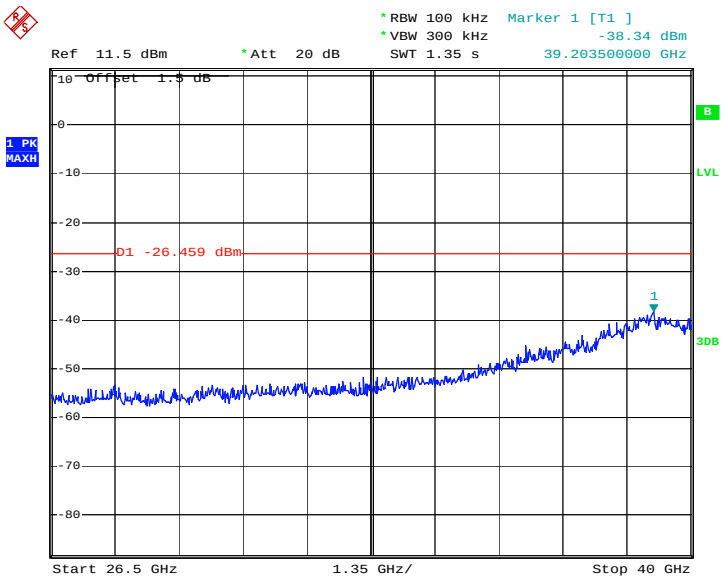
Date: 9.MAY.2014 16:25:58

Chain 0: 802.11n ht20 Low Channel 30MHz-26.5GHz



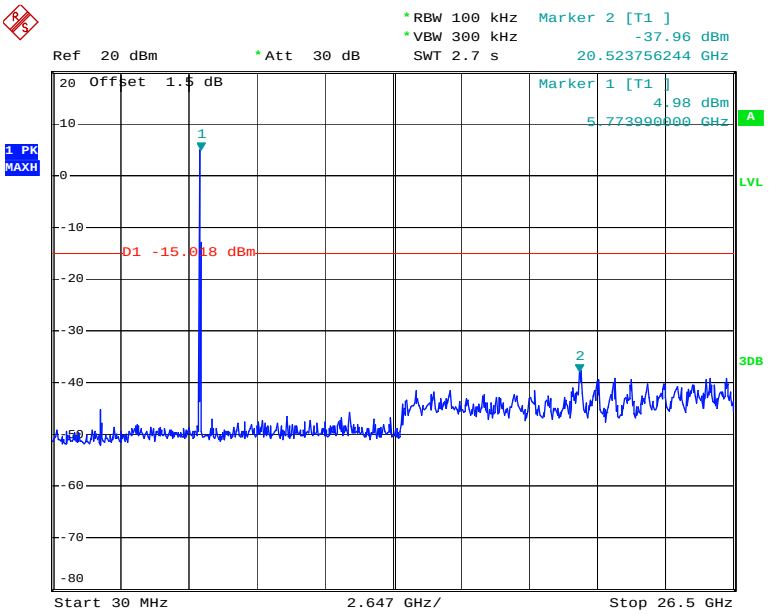
Date: 7.MAY.2014 09:45:47

Chain 0: 802.11n ht20 Low Channel 26.5GHz-40GHz



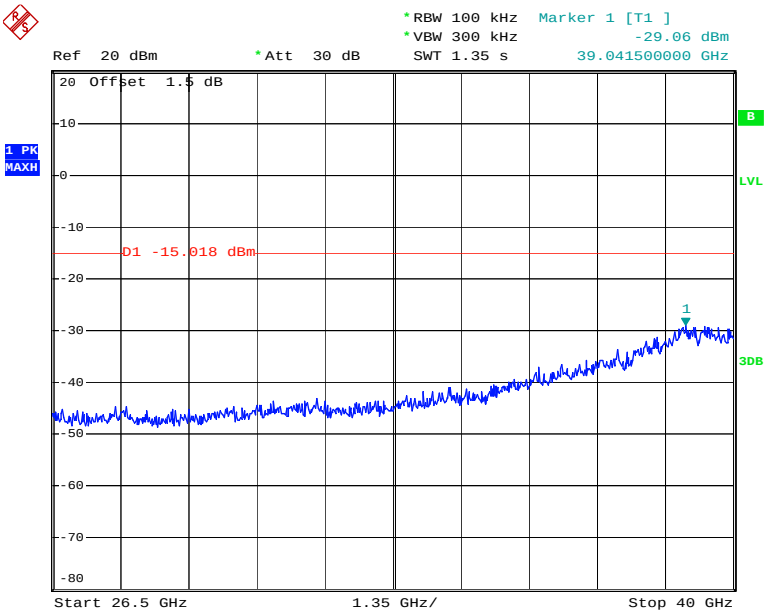
Date: 7.MAY.2014 09:46:24

Chain 0: 802.11n ht20 Middle Channel 30MHz-26.5GHz



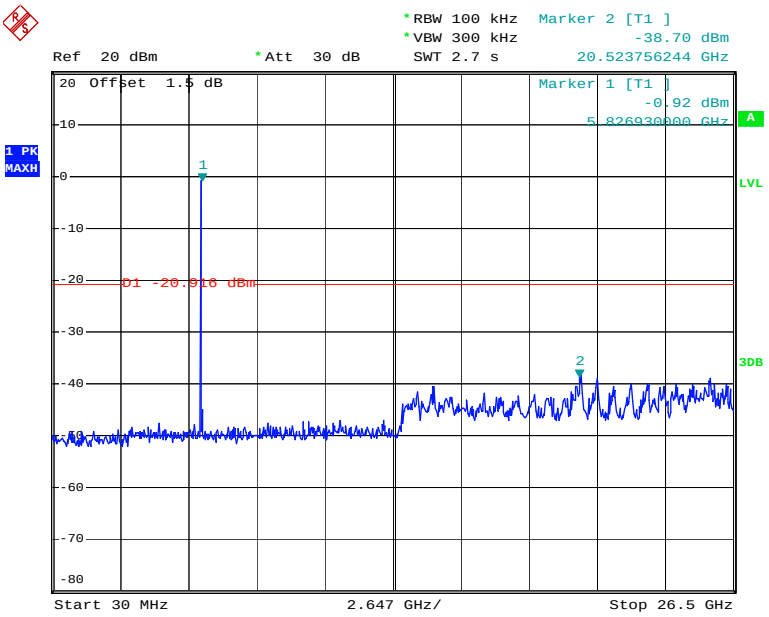
Date: 12.MAY.2014 18:30:06

Chain 0: 802.11n ht20 Middle Channel 26.5GHz-40GHz



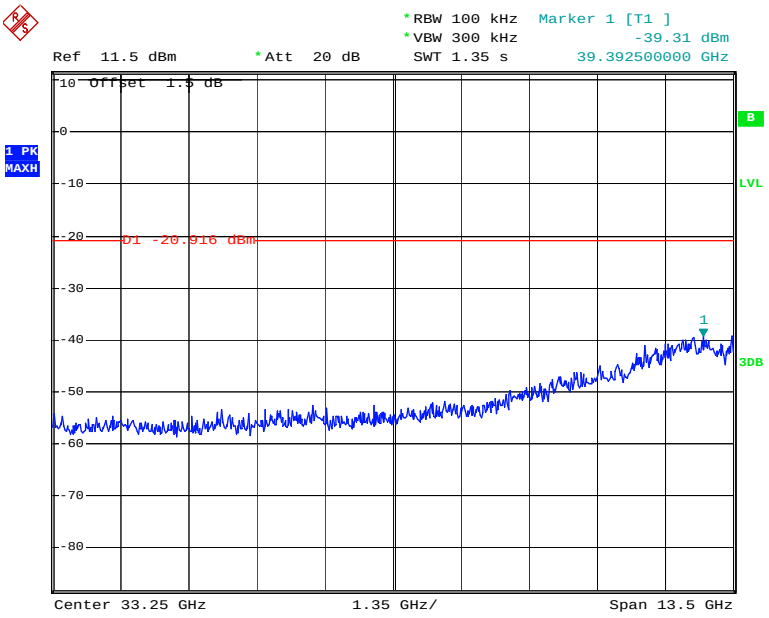
Date: 12.MAY.2014 18:30:29

Chain 0: 802.11n ht20 High Channel 30MHz-26.5GHz



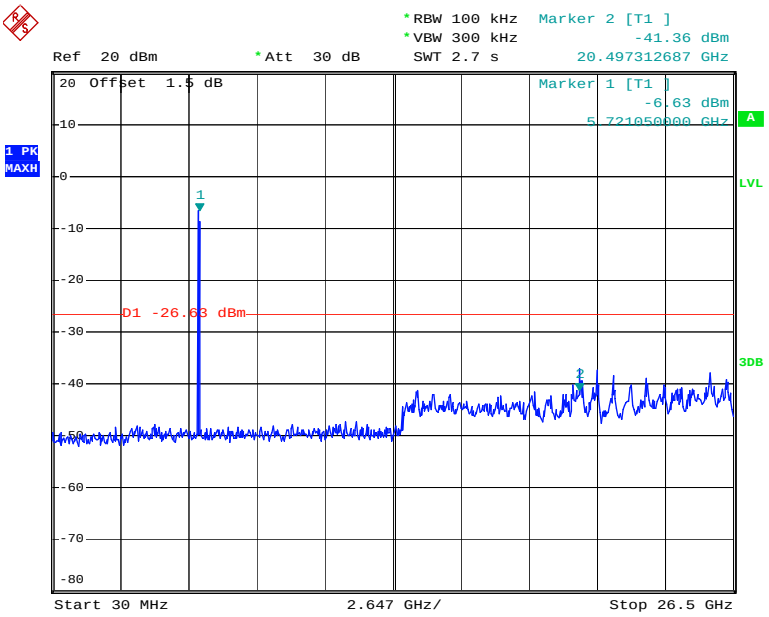
Date: 7.MAY.2014 10:15:59

Chain 0: 802.11n ht20 High Channel 26.5GHz-40GHz



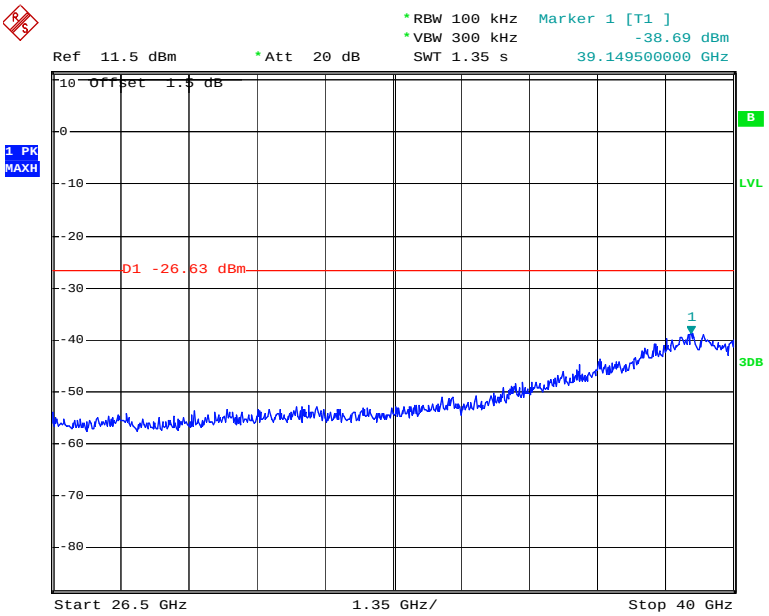
Date: 7.MAY.2014 10:16:29

Chain 1: 802.11n ht20 Low Channel 30MHz-26.5GHz



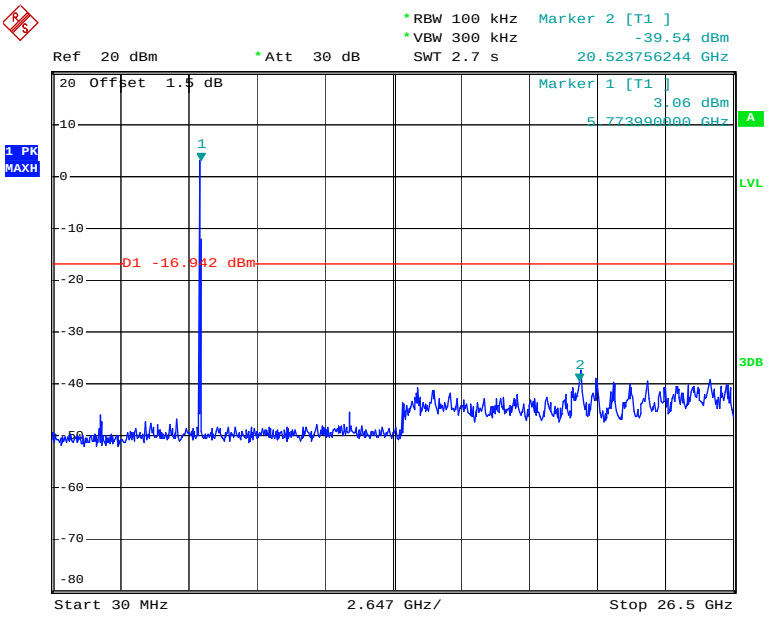
Date: 7.MAY.2014 09:52:44

Chain 1: 802.11n ht20 Low Channel 26.5GHz-40GHz



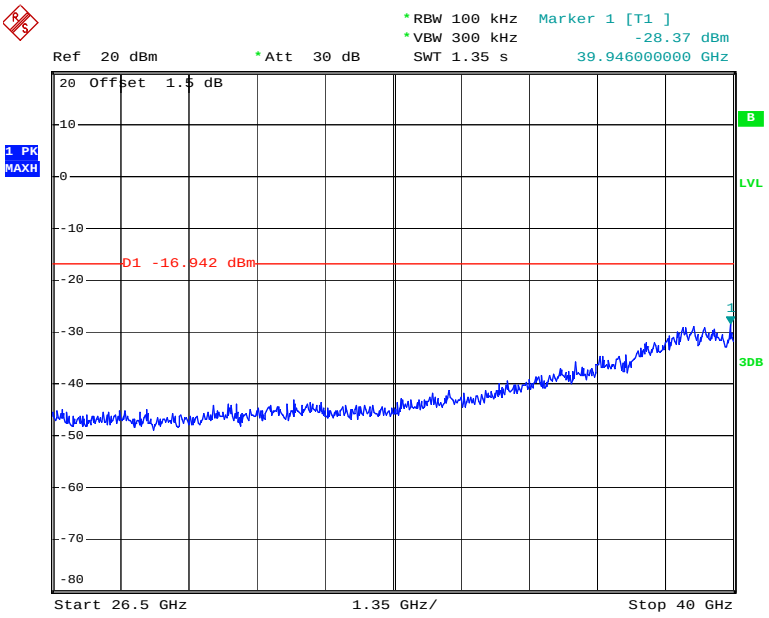
Date: 7.MAY.2014 09:53:20

Chain 1: 802.11n ht20 Middle Channel 30MHz-26.5GHz



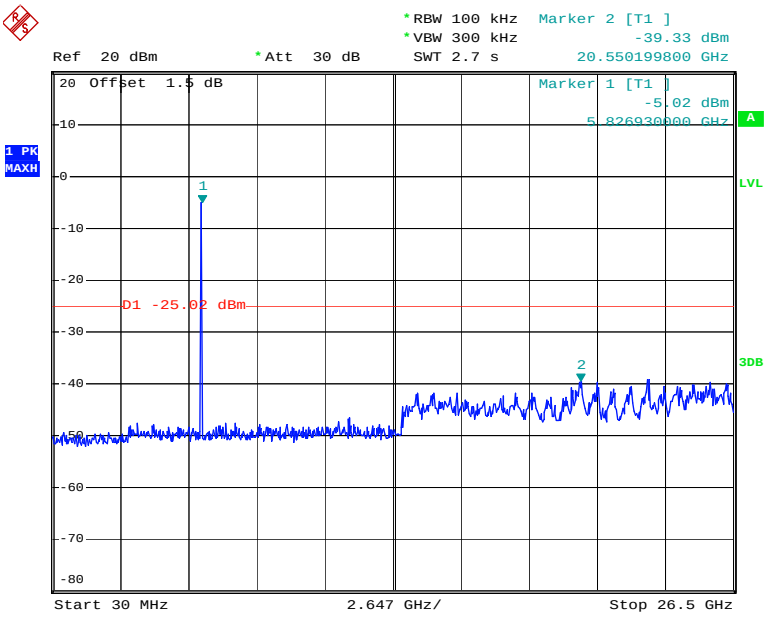
Date: 12.MAY.2014 18:31:58

Chain 1: 802.11n ht20 Middle Channel 26.5GHz-40GHz



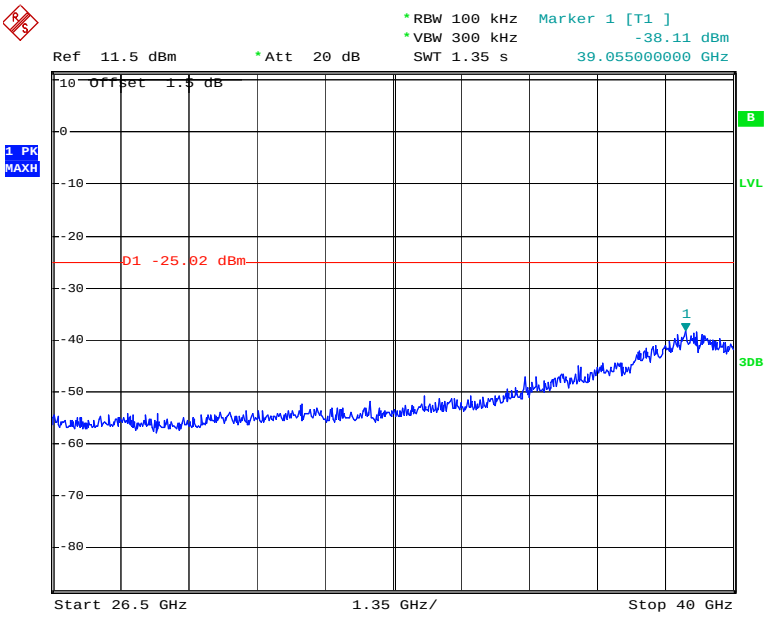
Date: 12.MAY.2014 18:32:28

Chain 1: 802.11n ht20 High Channel 30MHz-26.5GHz



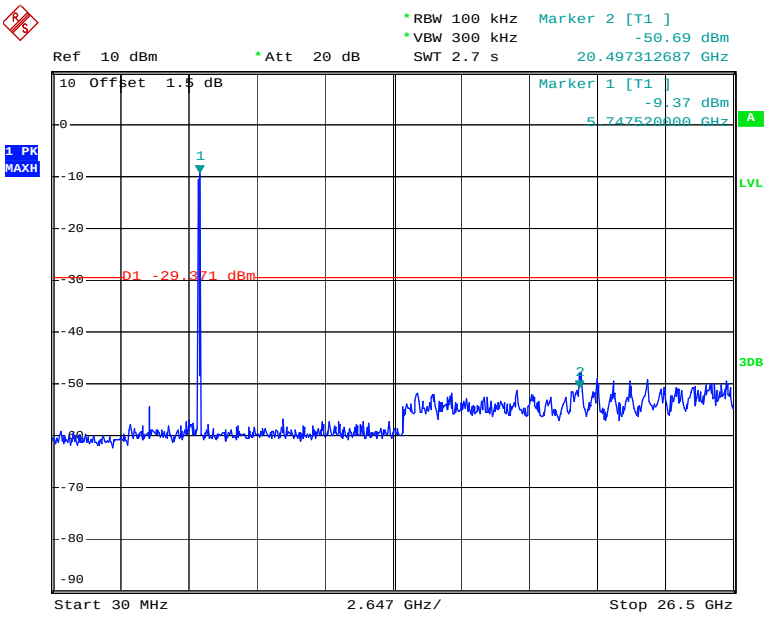
Date: 7.MAY.2014 10:20:03

Chain 1: 802.11n ht20 High Channel 26.5GHz-40GHz



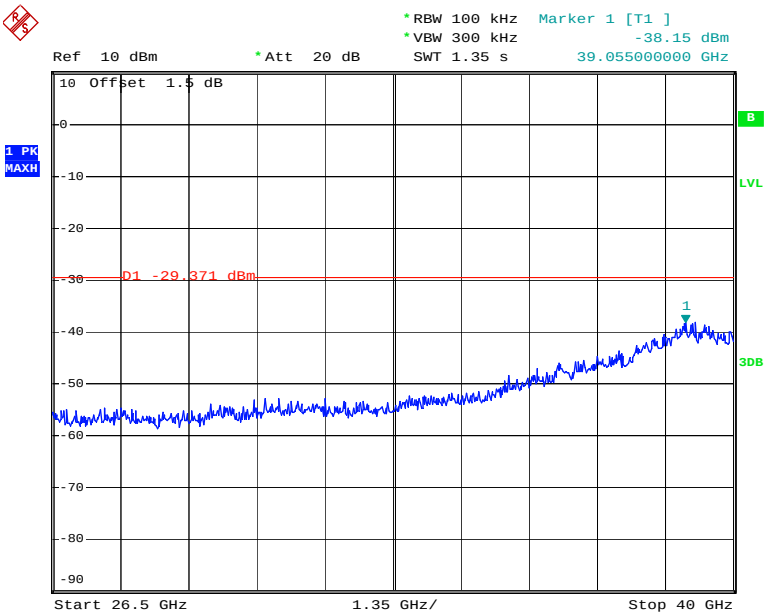
Date: 7.MAY.2014 10:20:32

Chain 0: 802.11n ht40 Low Channel 30MHz-26.5GHz



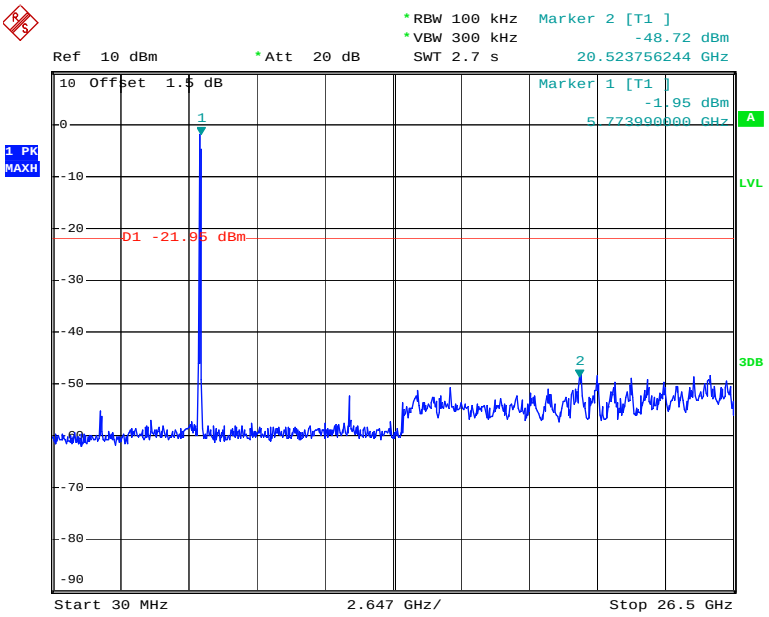
Date: 7.MAY.2014 10:26:28

Chain 0: 802.11n ht40 Low Channel 26.5GHz-40GHz



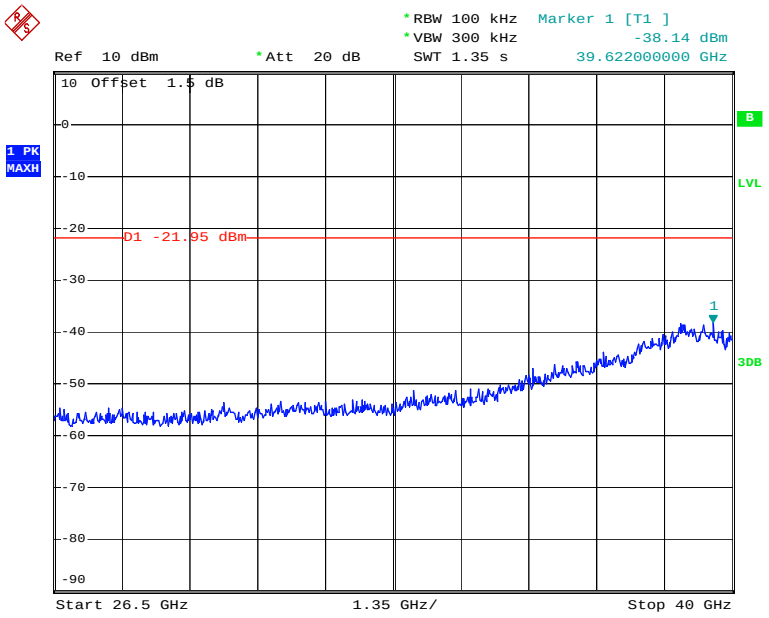
Date: 7.MAY.2014 10:27:08

Chain 0: 802.11n ht40 High Channel 30MHz-26.5GHz



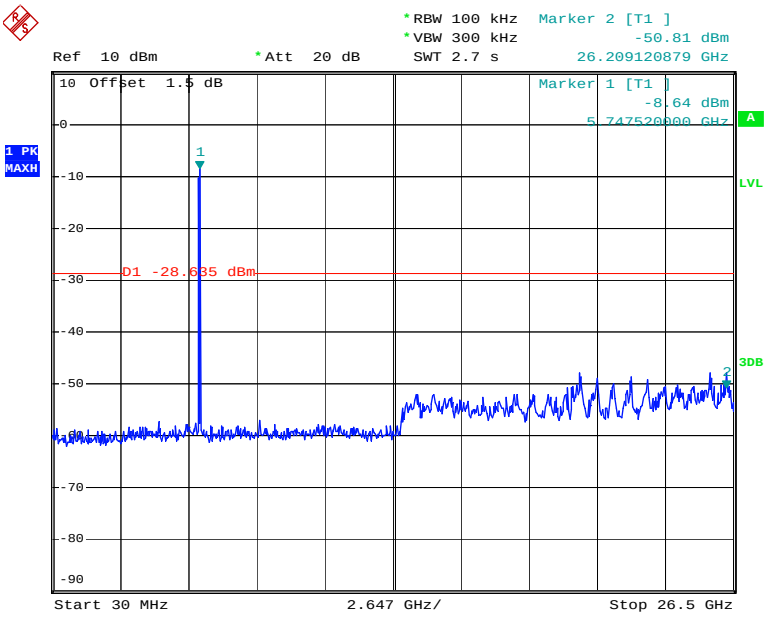
Date: 13.MAY.2014 16:53:40

Chain 0: 802.11n ht40 High Channel 26.5GHz-40GHz



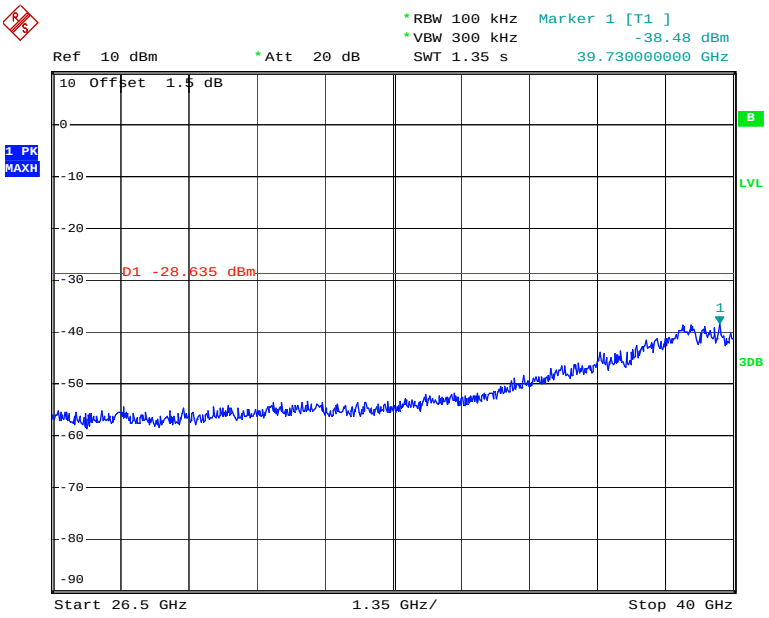
Date: 13.MAY.2014 16:54:04

Chain 1: 802.11n ht40 Low Channel 30MHz-26.5GHz



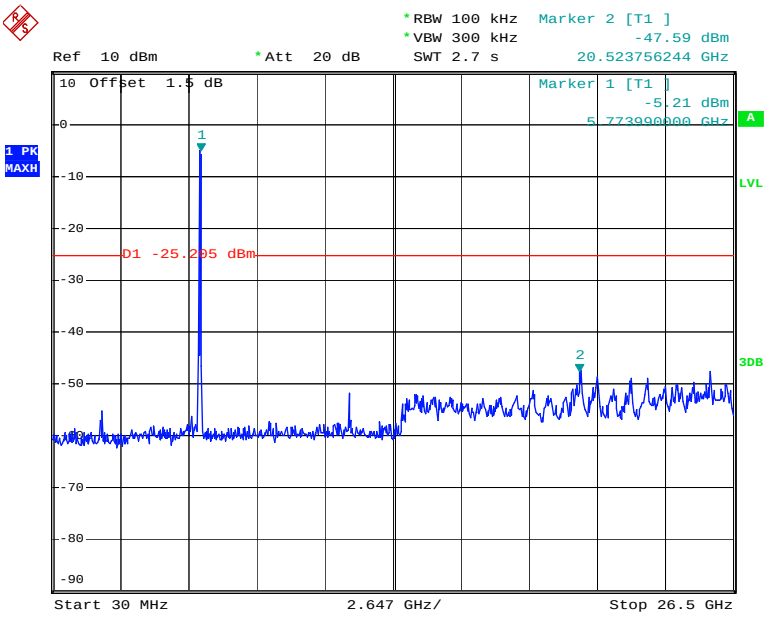
Date: 7.MAY.2014 10:23:53

Chain 1: 802.11n ht40 Low Channel 26.5GHz-40GHz



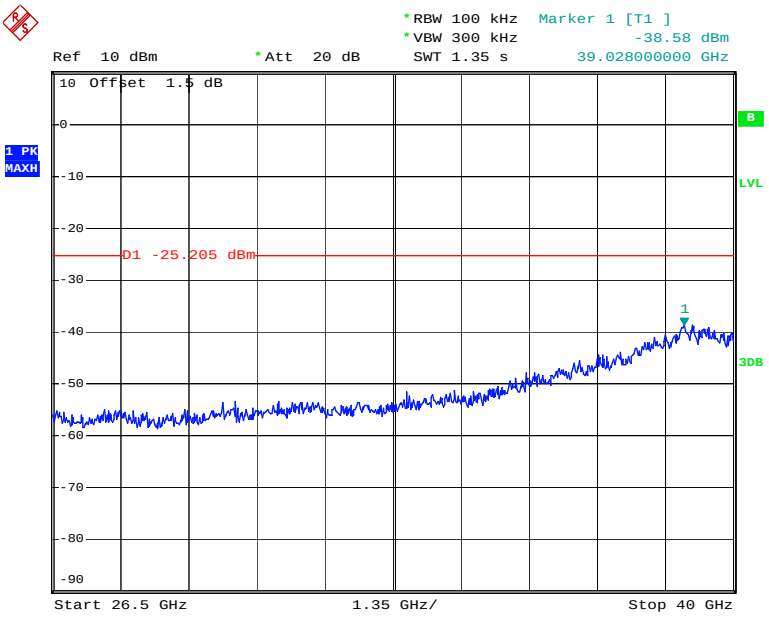
Date: 7.MAY.2014 10:24:18

Chain 1: 802.11n ht40 High Channel 30MHz-26.5GHz



Date: 13.MAY.2014 16:56:15

Chain 1: 802.11n ht40 High Channel 26.5GHz-40GHz



Date: 13.MAY.2014 16:56:48

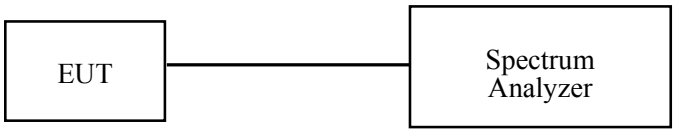
FCC §15.247(a) (2) – 6 dB EMISSION BANDWIDTH

Applicable Standard

Systems using digital modulation techniques may operate in the 902–928 MHz, 2400–2483.5 MHz, and 5725–5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01clause8.1 Option 1:
a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3×RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Sweep = auto couple.
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2013-06-16	2014-06-15

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	24.2~25.7 °C
Relative Humidity:	64~68 %
ATM Pressure:	100.1~100.8 kPa

The testing was performed by Dean Liu from 2014-05-06 to 2014-05-13.

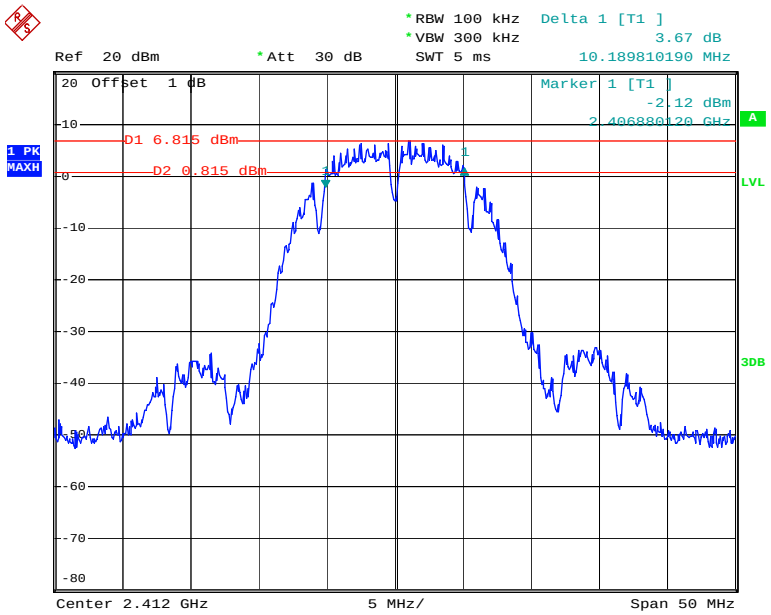
Test Result: Pass.

Please refer to the following tables and plots.

Test mode	Channel	Frequency	6 dB Bandwidth (MHz)		Limit
		(MHz)	Chain0	Chain1	(kHz)
2.4GHz band-802.11b	Low	2412	10.19	10.14	≥500
	Middle	2437	10.19	10.14	≥500
	High	2462	10.19	10.14	≥500
2.4GHz band-802.11g	Low	2412	16.43	16.43	≥500
	Middle	2437	16.38	16.38	≥500
	High	2462	16.48	16.43	≥500
2.4GHz band-802.11n ht20	Low	2412	17.73	17.73	≥500
	Middle	2437	16.78	17.73	≥500
	High	2462	17.78	17.73	≥500
2.4GHz band-802.11n ht40	Low	2422	35.76	36.06	≥500
	Middle	2437	35.96	36.26	≥500
	High	2452	36.26	36.16	≥500
5725-5850MHz band-802.11a	Low	5745	16.33	16.43	≥500
	Middle	5785	15.98	16.08	≥500
	High	5825	16.13	16.38	≥500
5725-5850MHz band-802.11n ht20	Low	5745	17.68	17.68	≥500
	Middle	5785	16.03	16.78	≥500
	High	5825	17.63	17.63	≥500
5725-5850MHz band-802.11n ht40	Low	5755	35.56	35.76	≥500
	High	5795	35.56	35.56	≥500

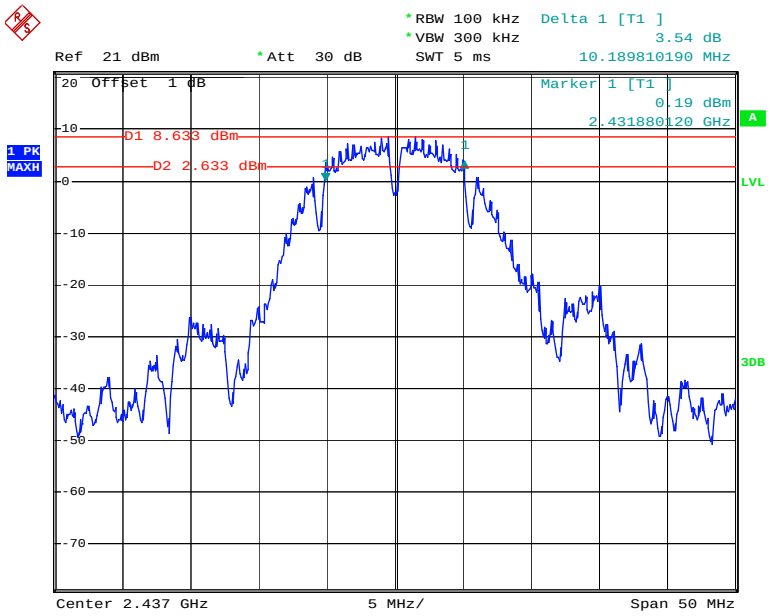
2.4GHz band:

Chain 0: 802.11b Low Channel



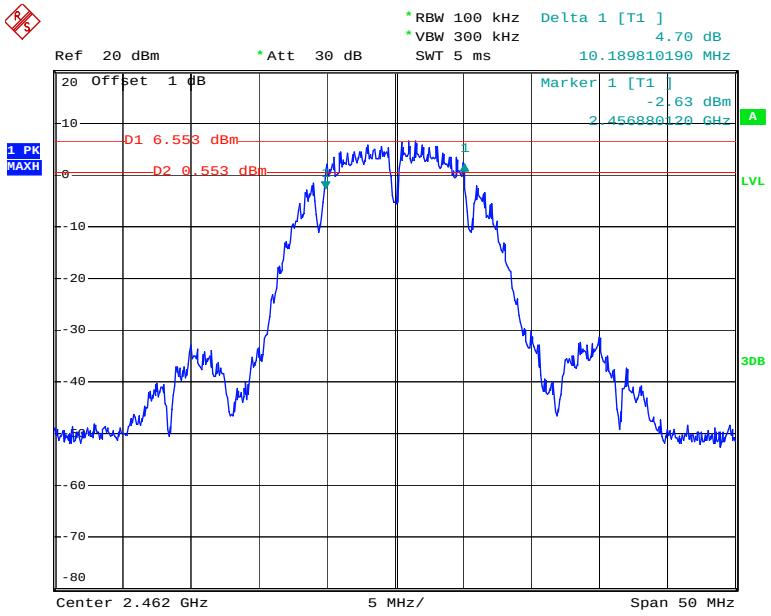
Date: 6.MAY.2014 10:40:41

Chain 0: 802.11b Middle Channel



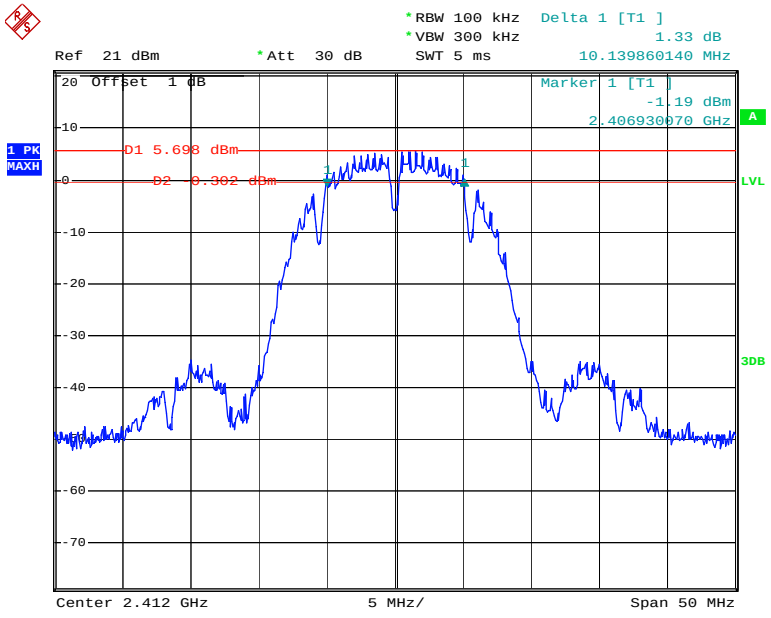
Date: 12.MAY.2014 18:03:29

Chain 0: 802.11b High Channel



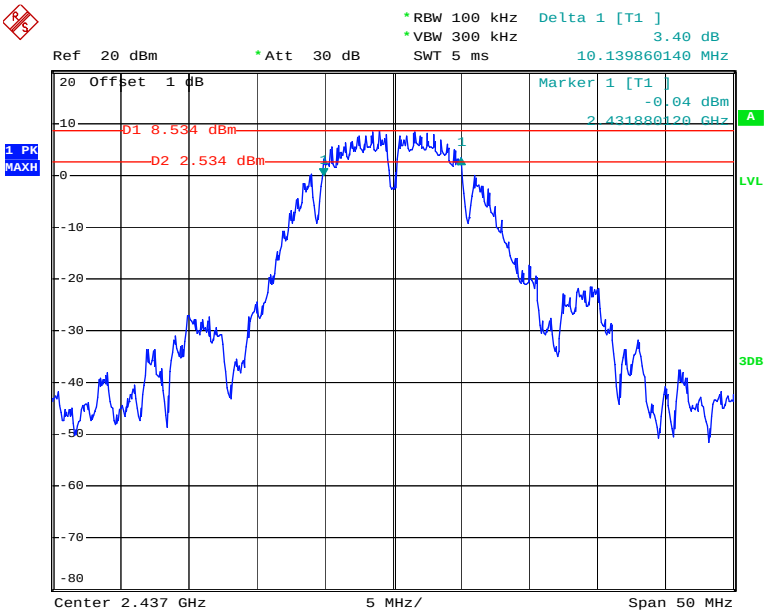
Date: 6.MAY.2014 10:43:42

Chain 1: 802.11b Low Channel



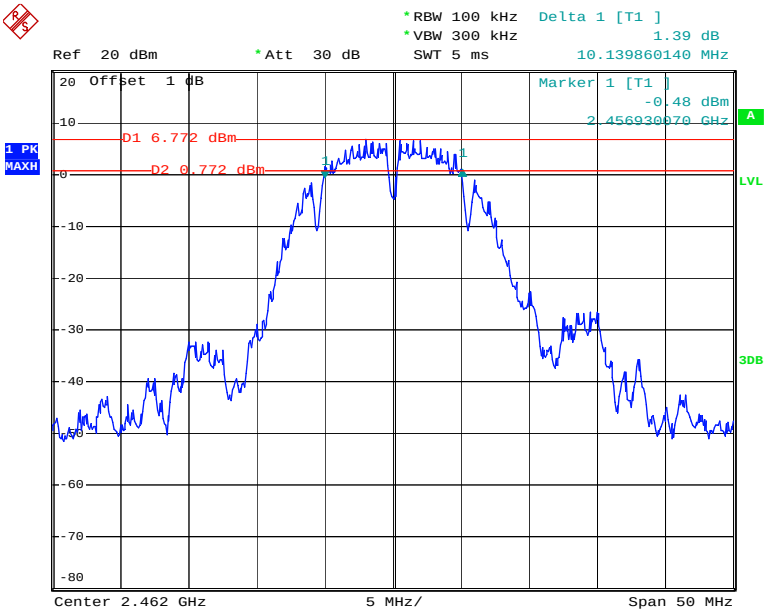
Date: 9.MAY.2014 15:24:39

Chain 1: 802.11b Middle Channel



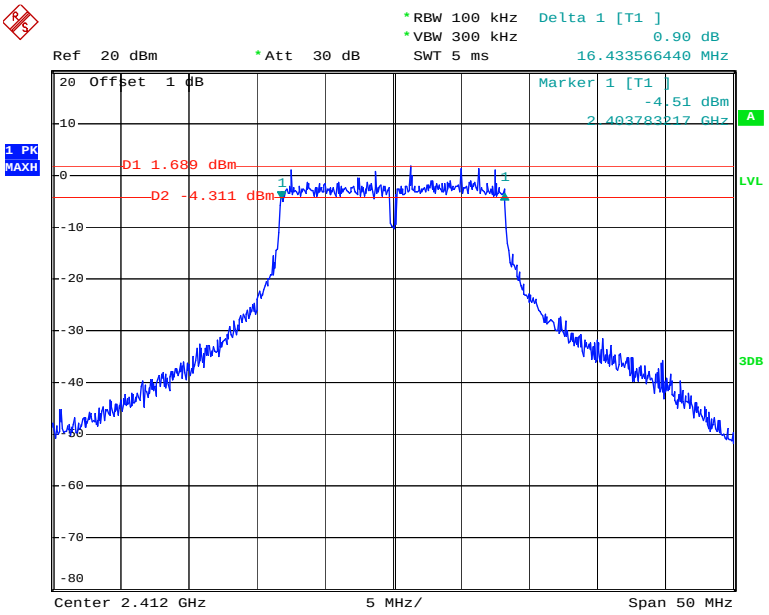
Date: 12.MAY.2014 18:04:43

Chain 1: 802.11b High Channel



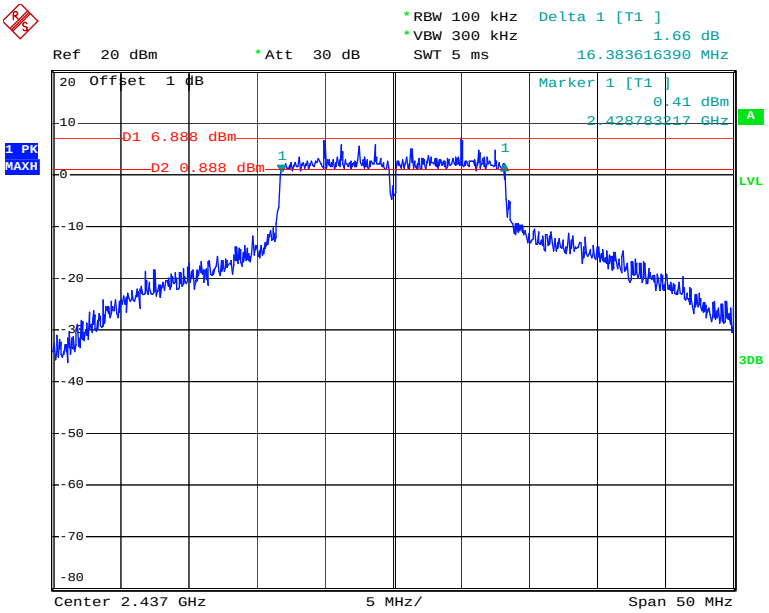
Date: 9.MAY.2014 15:43:35

Chain 0: 802.11g Low Channel



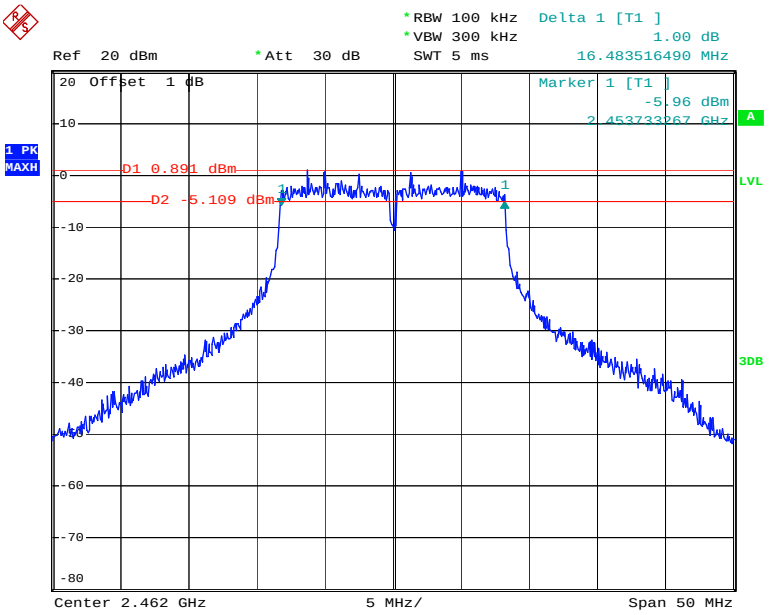
Date: 6.MAY.2014 10:50:29

Chain 0: 802.11g Middle Channel



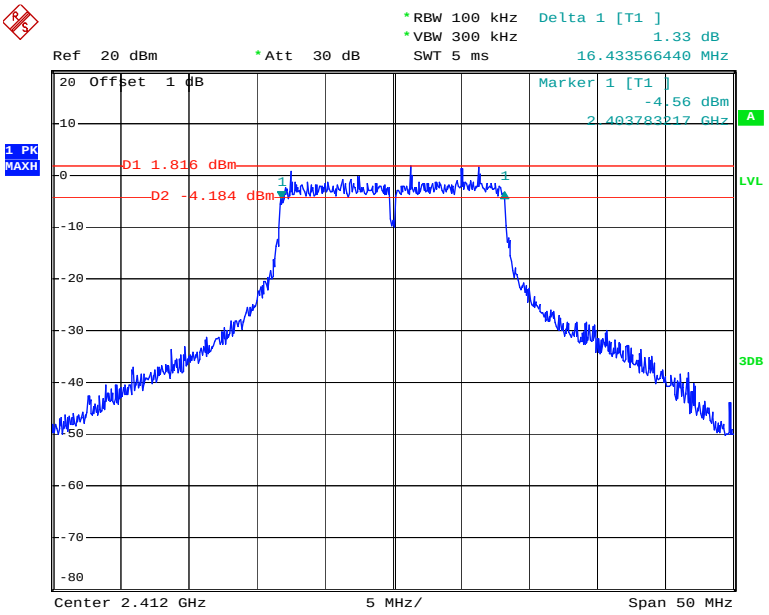
Date: 12.MAY.2014 18:06:22

Chain 0: 802.11g High Channel



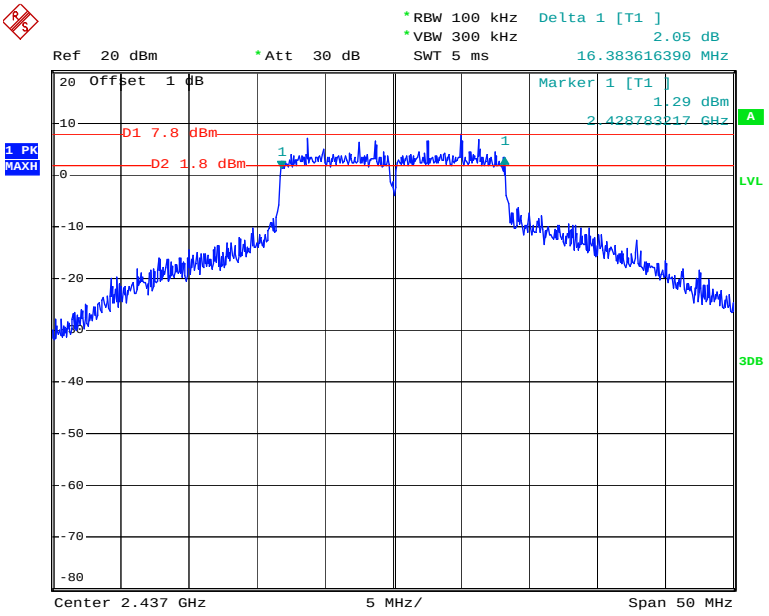
Date: 6.MAY.2014 10:53:44

Chain 1: 802.11g Low Channel



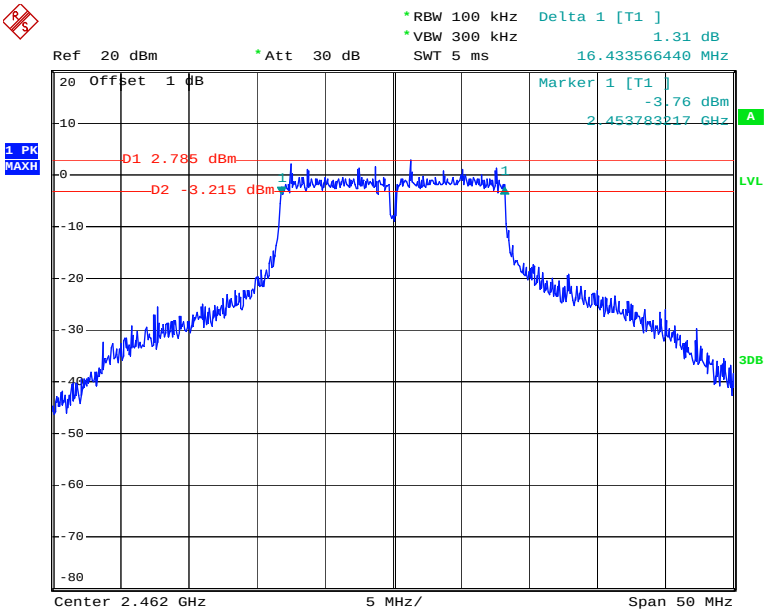
Date: 9.MAY.2014 15:47:52

Chain 1: 802.11g Middle Channel



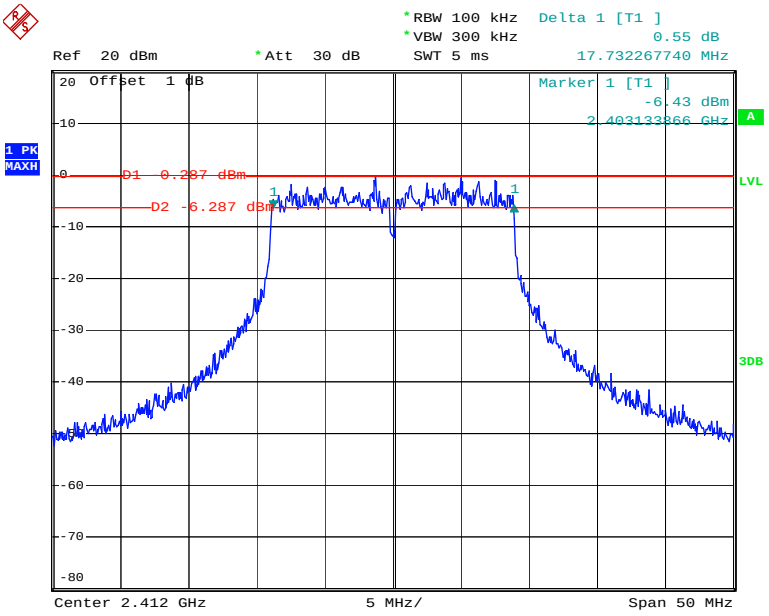
Date: 12.MAY.2014 18:09:06

Chain 1: 802.11g High Channel



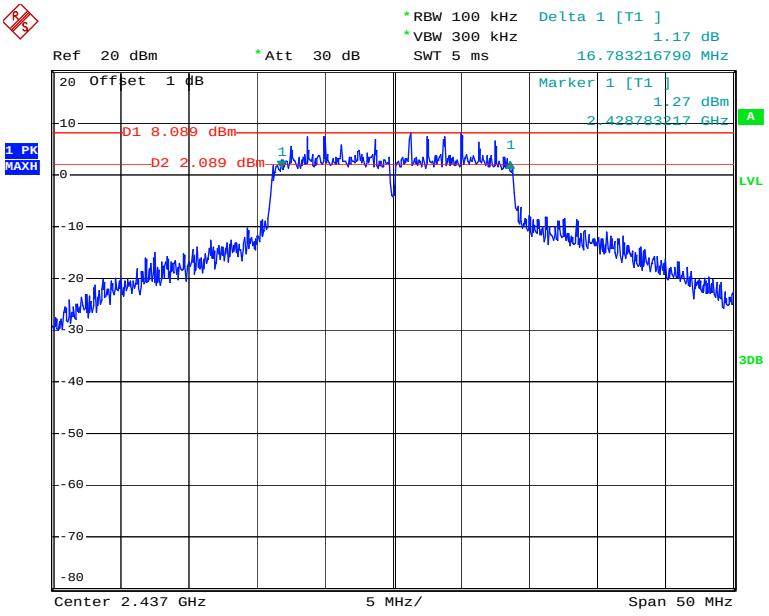
Date: 9.MAY.2014 15:59:19

Chain 0: 802.11n ht20 Low Channel



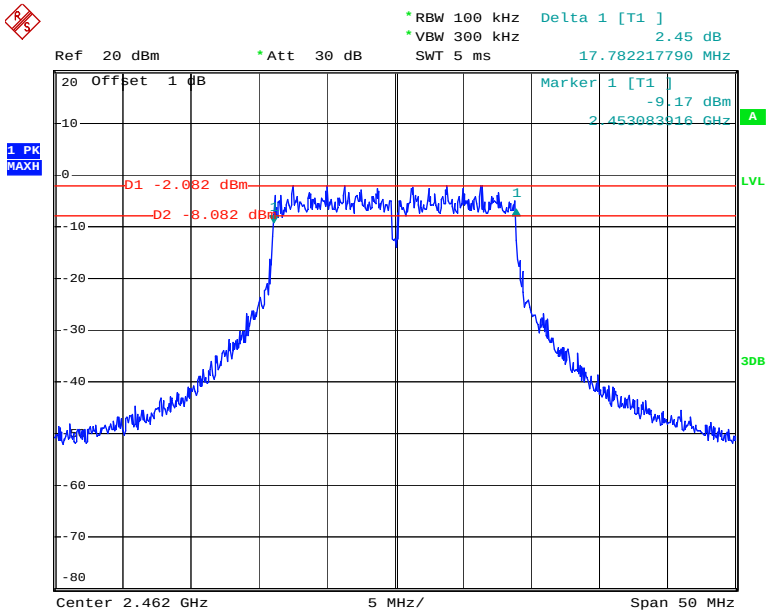
Date: 6.MAY.2014 10:58:36

Chain 0: 802.11n ht20 Middle Channel



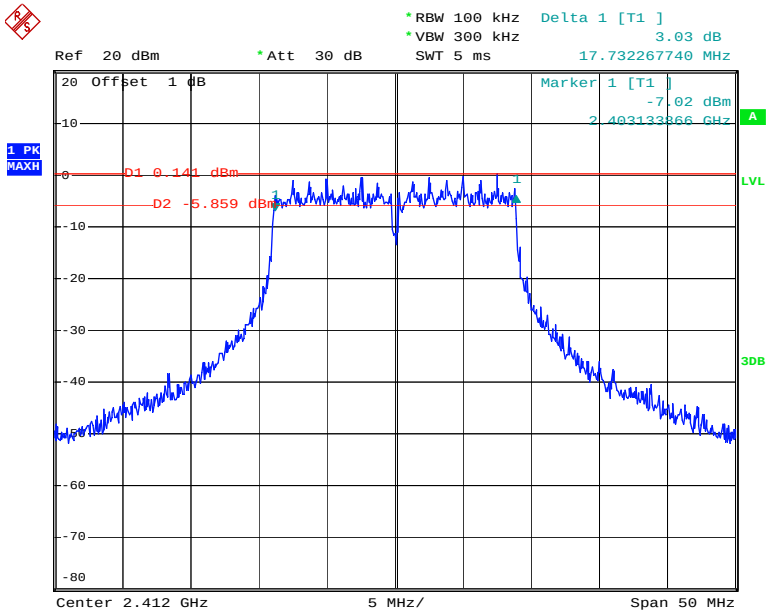
Date: 12.MAY.2014 18:11:04

Chain 0: 802.11n ht20 High Channel



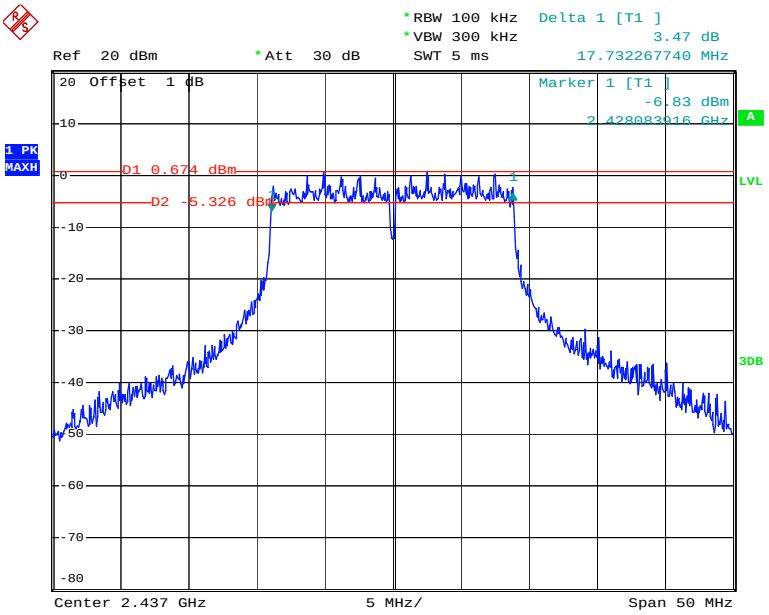
Date: 6.MAY.2014 11:09:54

Chain 1: 802.11n ht20 Low Channel



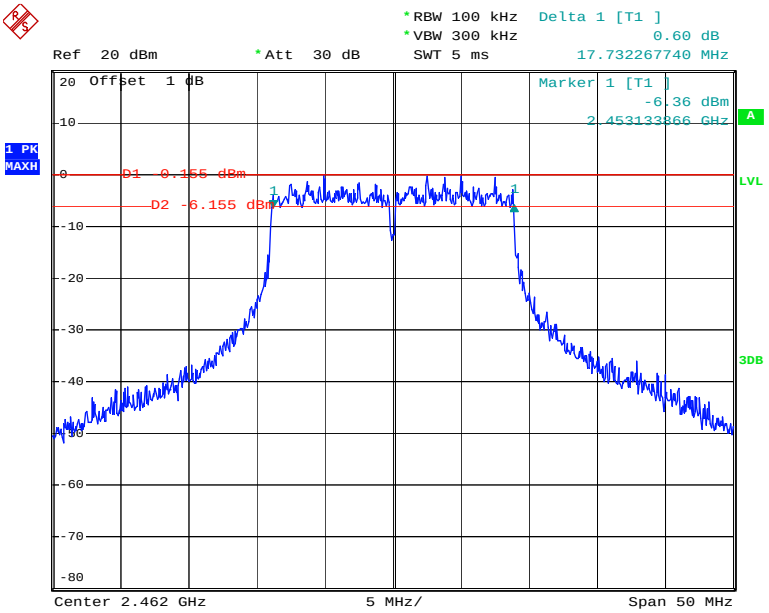
Date: 6.MAY.2014 11:01:04

Chain 1: 802.11n ht20 Middle Channel



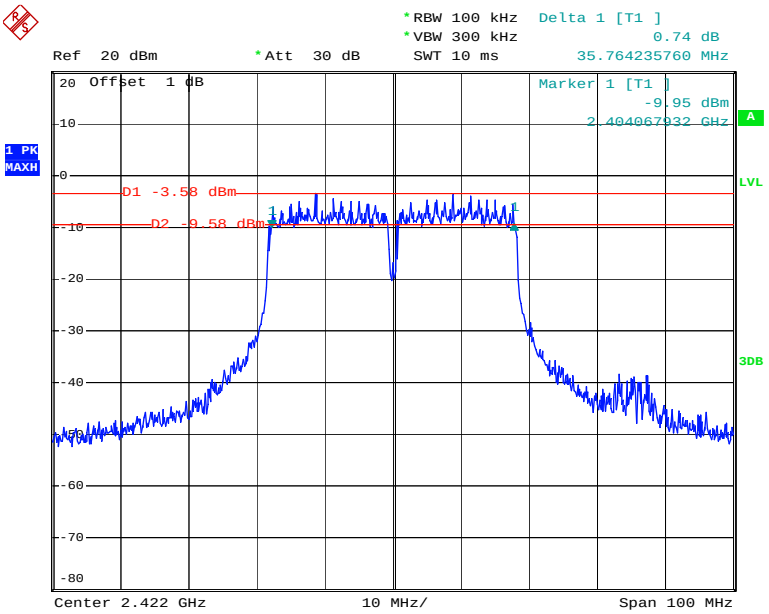
Date: 6.MAY.2014 11:06:31

Chain 1: 802.11n ht20 High Channel



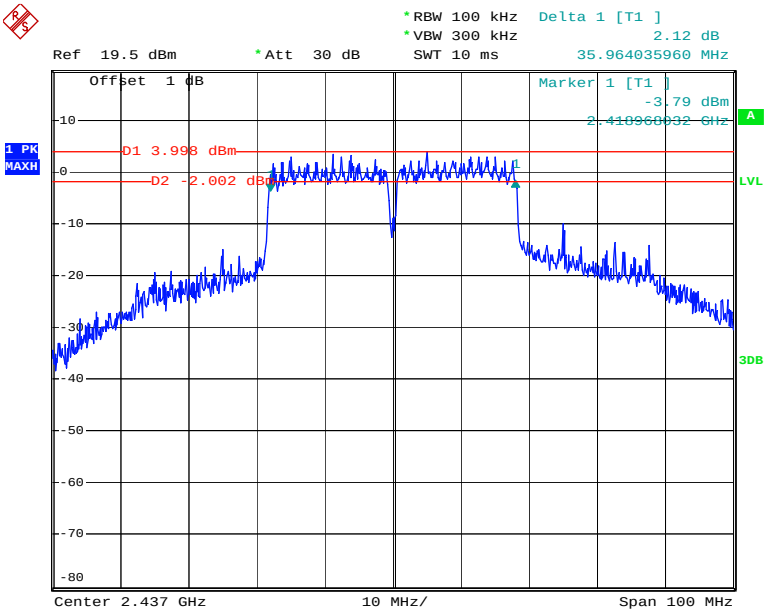
Date: 6.MAY.2014 11:29:24

Chain 0: 802.11n ht40 Low Channel



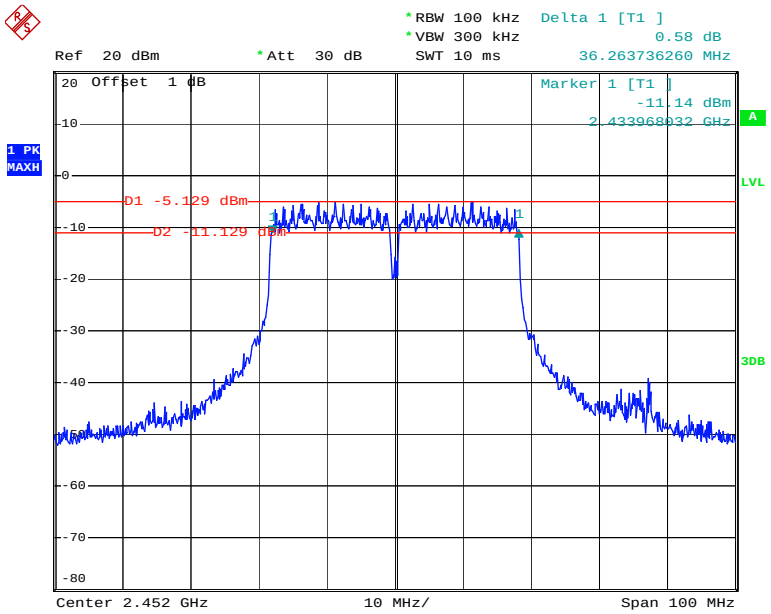
Date: 6.MAY.2014 11:13:11

Chain 0: 802.11n ht40 Middle Channel



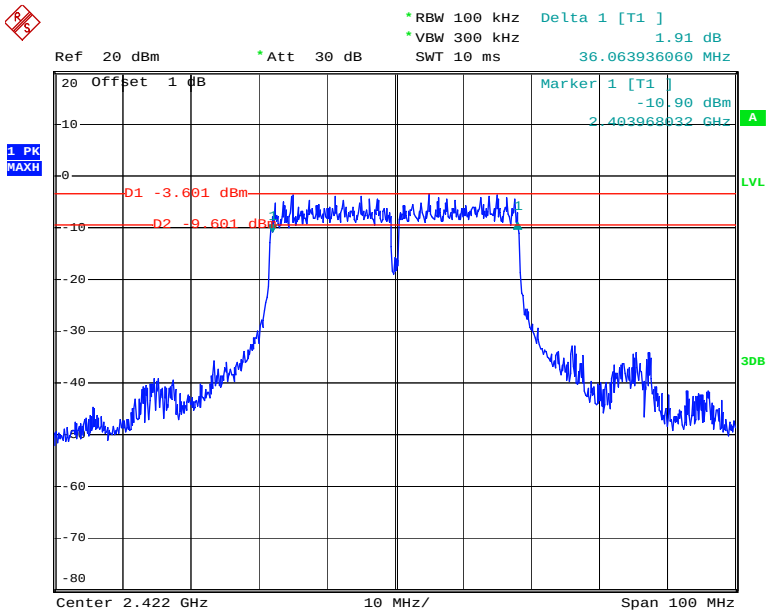
Date: 13.MAY.2014 11:18:37

Chain 0: 802.11n ht40 High Channel



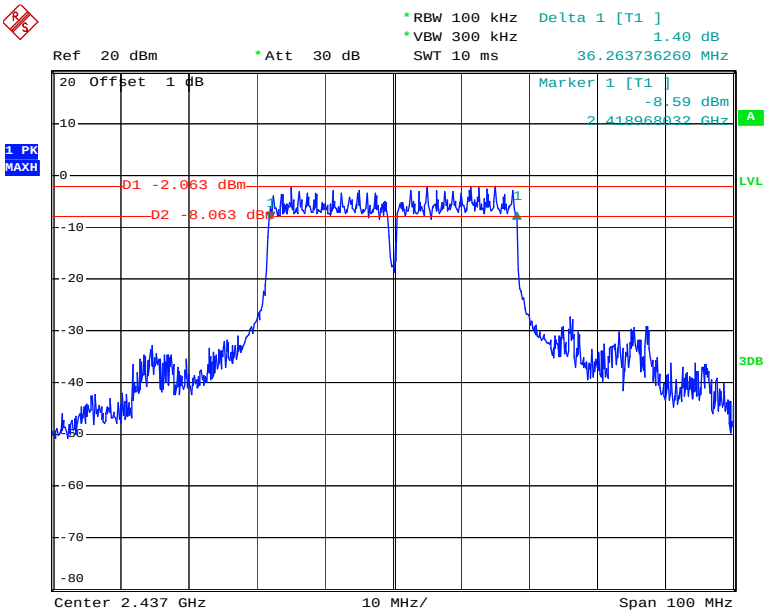
Date: 6.MAY.2014 11:24:56

Chain 1: 802.11n ht40 Low Channel



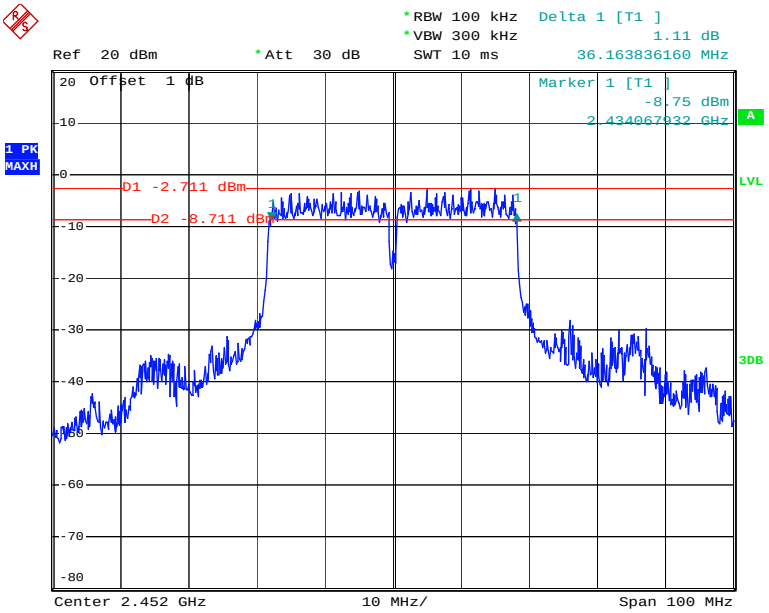
Date: 6.MAY.2014 11:15:44

Chain 1: 802.11n ht40 Middle Channel



Date: 6.MAY.2014 11:21:38

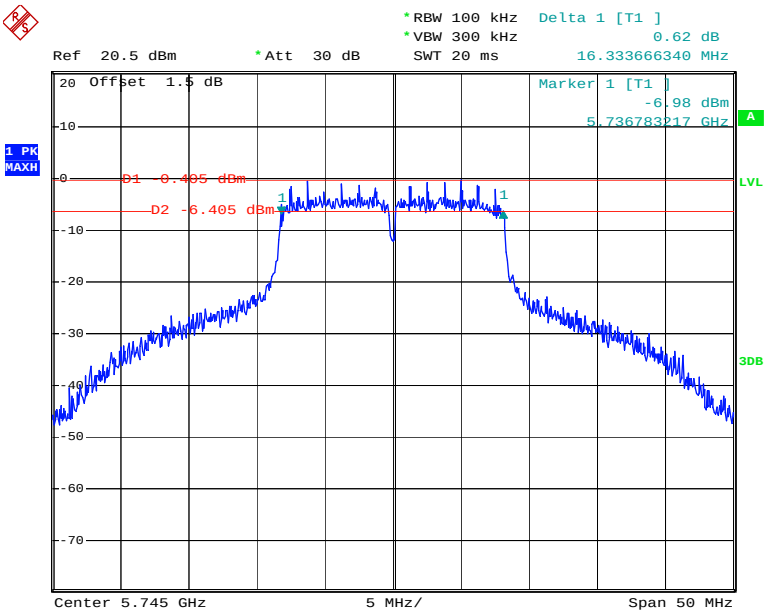
Chain 1: 802.11n ht40 High Channel



Date: 6.MAY.2014 11:27:09

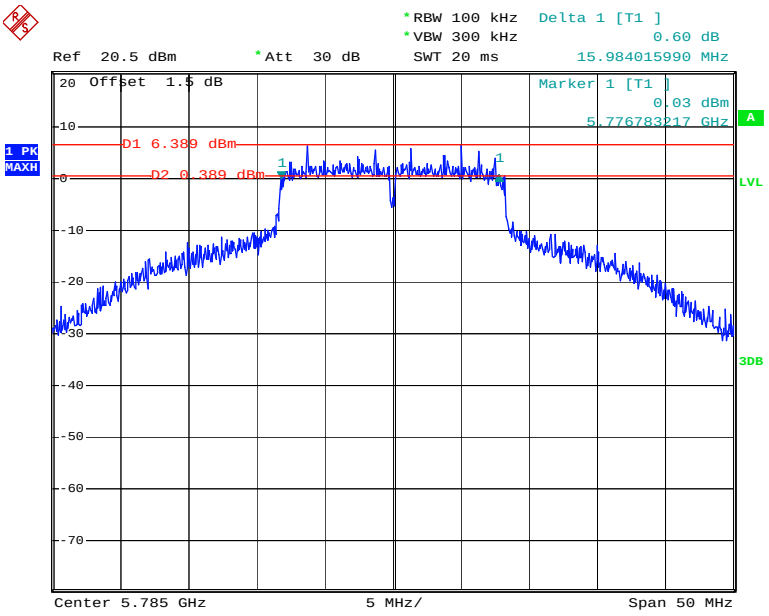
5725-5850MHz band:

Chain 0: 802.11a Low Channel



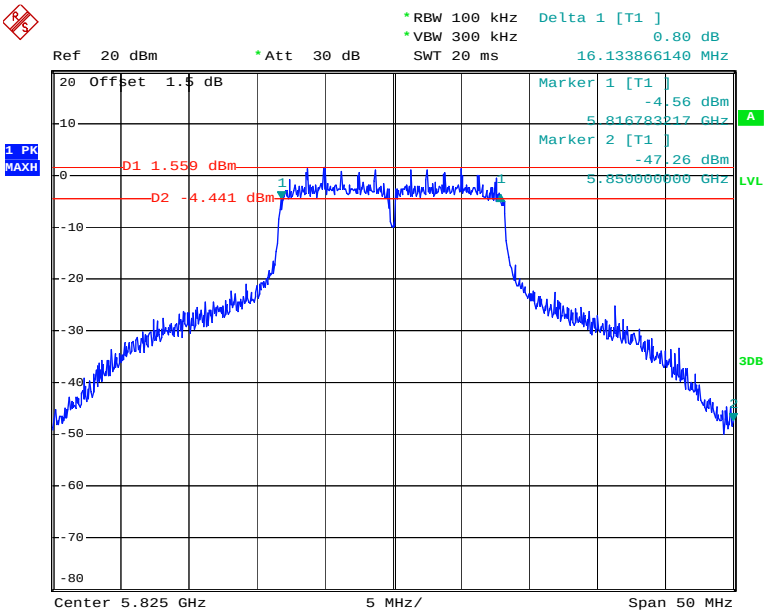
Date: 7.MAY.2014 09:22:23

Chain 0: 802.11a Middle Channel



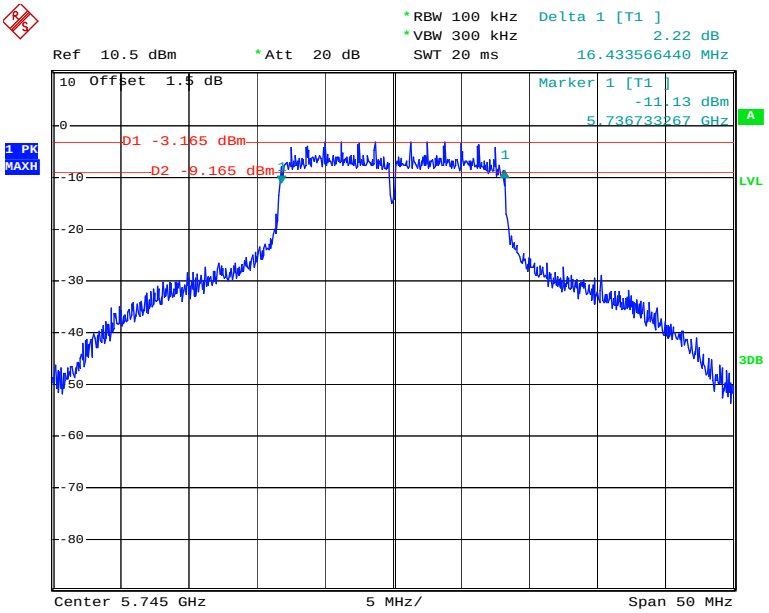
Date: 12.MAY.2014 18:20:32

Chain 0: 802.11a High Channel



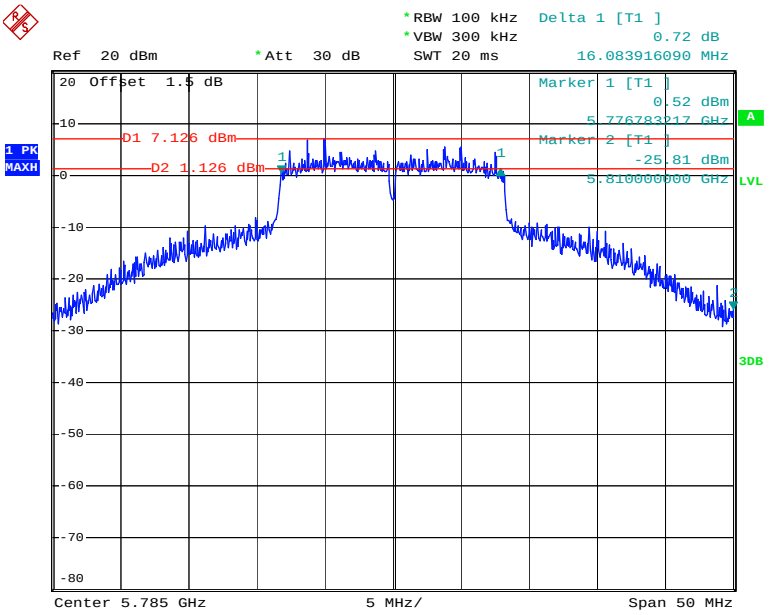
Date: 7.MAY.2014 09:38:15

Chain 1: 802.11a Low Channel



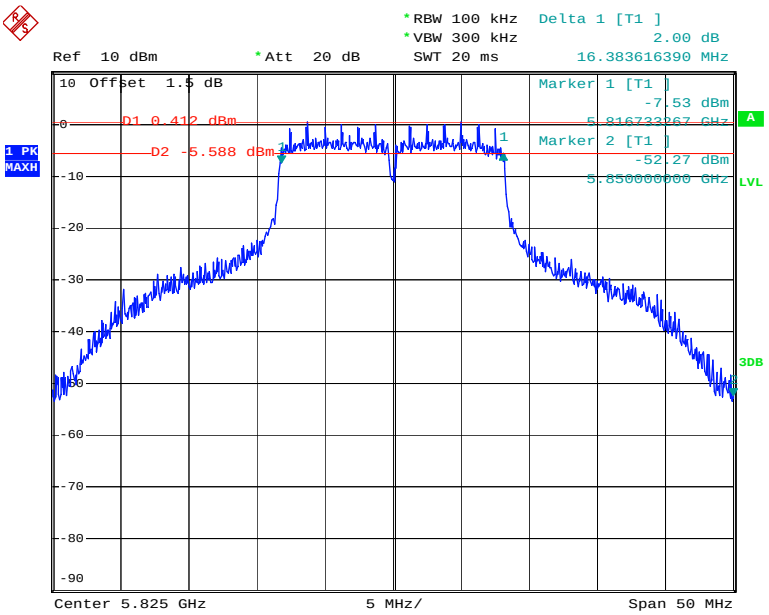
Date: 9.MAY.2014 16:18:28

Chain 1: 802.11a Middle Channel



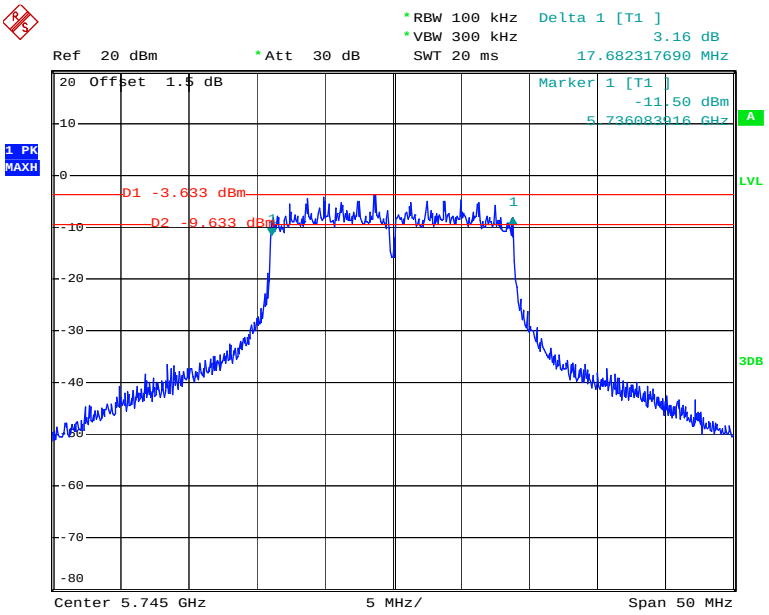
Date: 12.MAY.2014 18:26:50

Chain 1: 802.11a High Channel



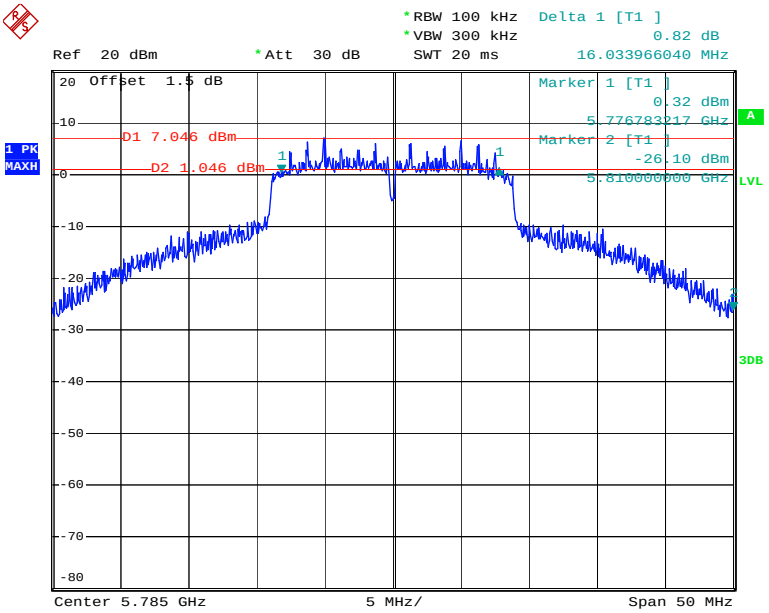
Date: 9.MAY.2014 16:24:40

Chain 0:802.11n ht20 Low Channel



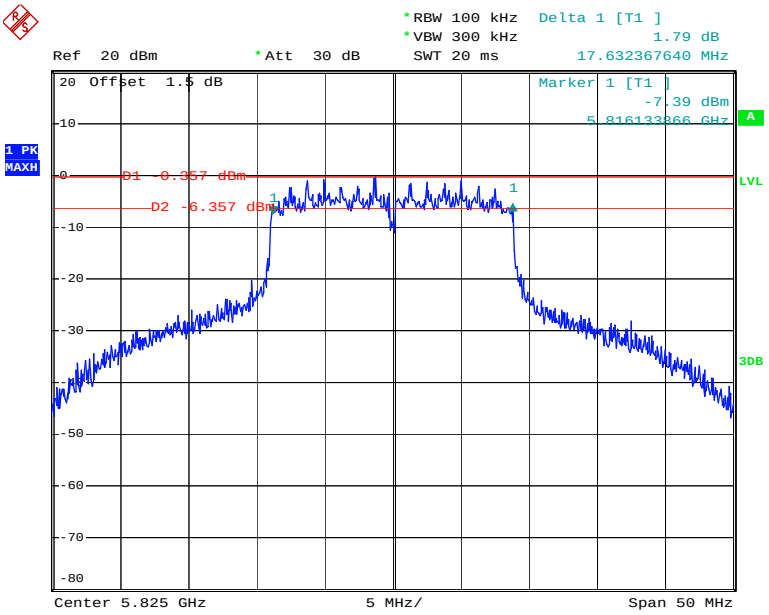
Date: 7.MAY.2014 09:44:45

Chain 0:802.11n ht20 Middle Channel



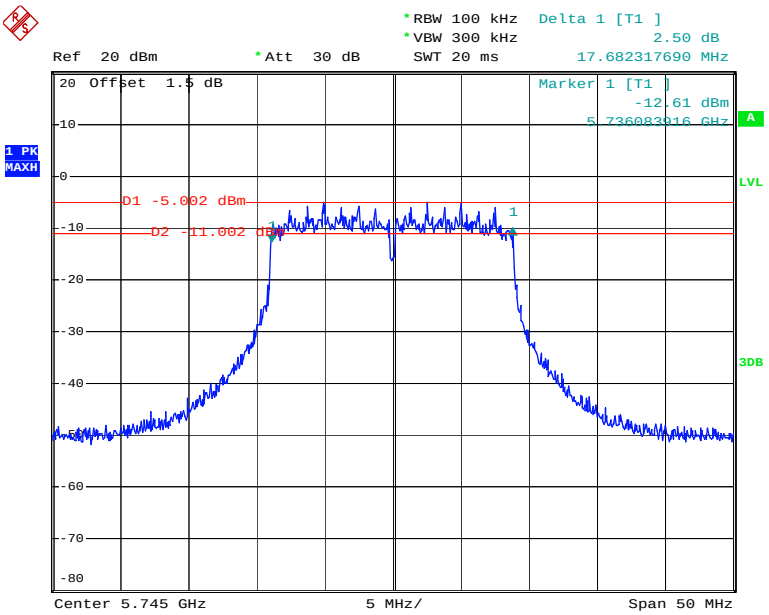
Date: 12.MAY.2014 18:28:48

Chain 0:802.11n ht20 High Channel



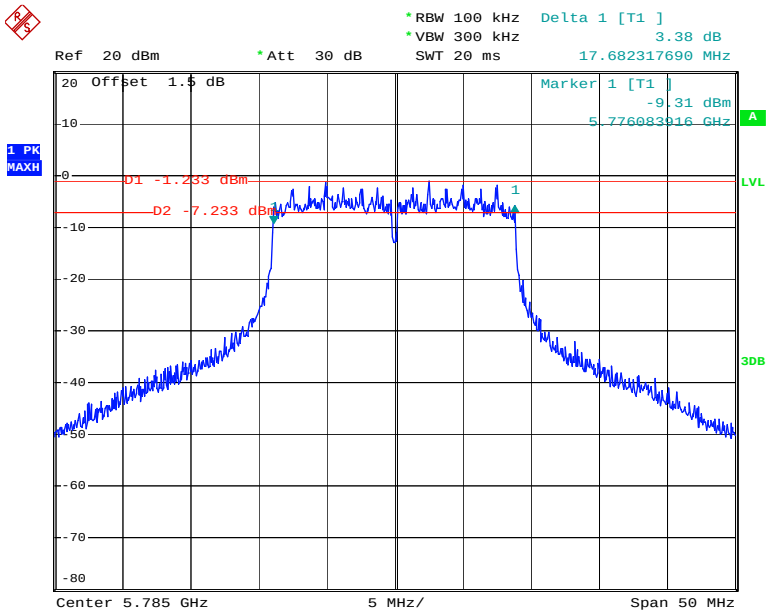
Date: 7.MAY.2014 10:15:04

Chain 1:802.11n ht20 Low Channel



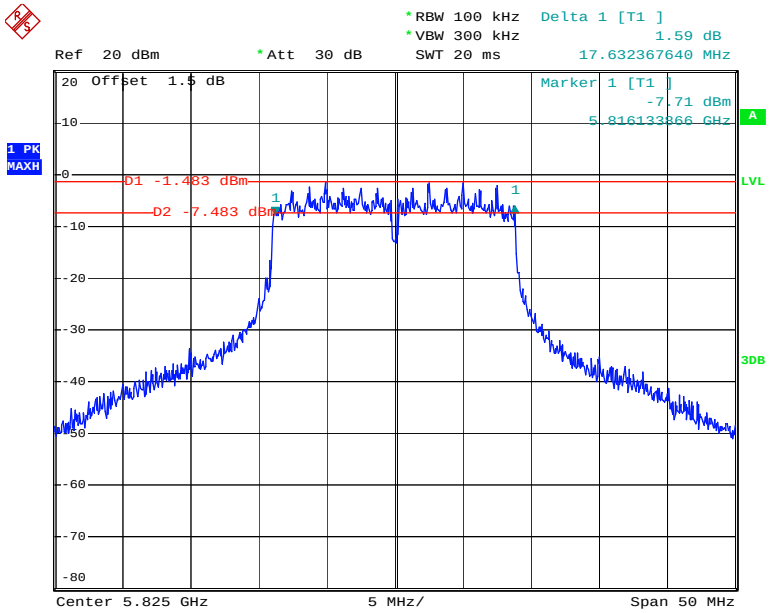
Date: 7.MAY.2014 09:51:27

Chain 1:802.11n ht20 Middle Channel



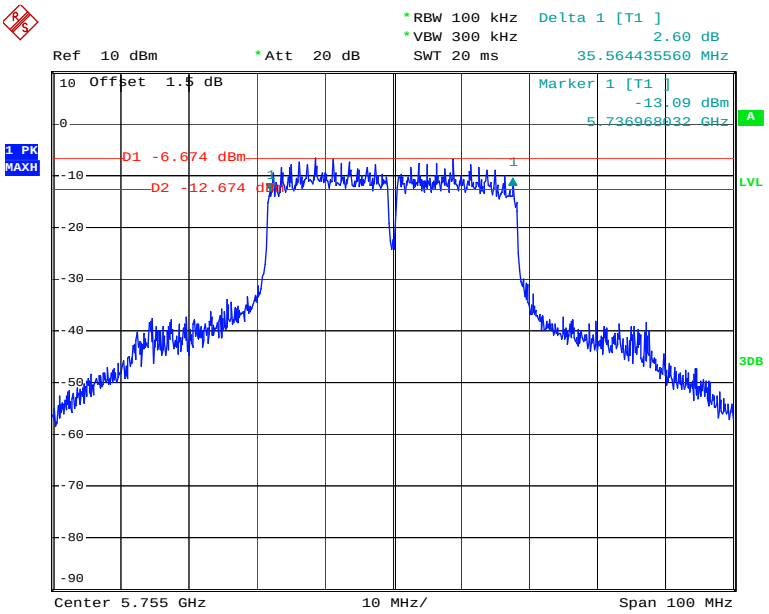
Date: 7.MAY.2014 10:07:51

Chain 1:802.11n ht20 High Channel



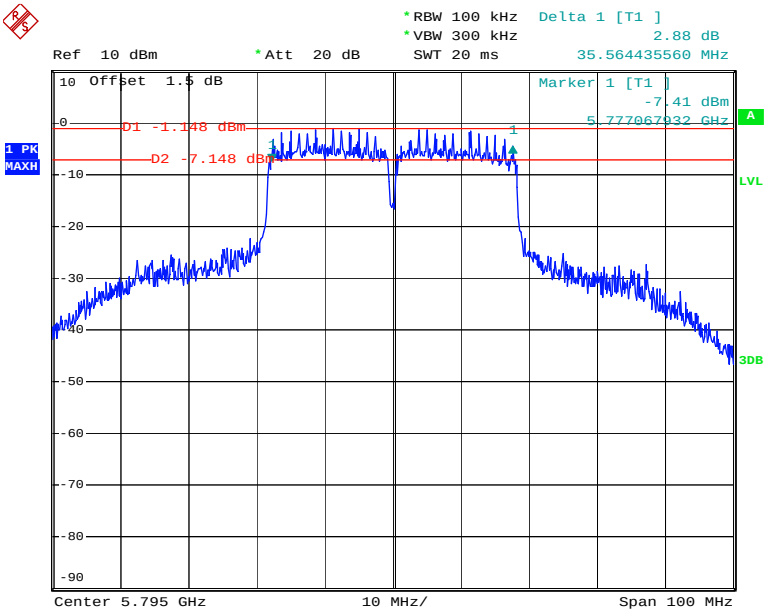
Date: 7.MAY.2014 10:19:00

Chain 0:802.11n ht40 Low Channel



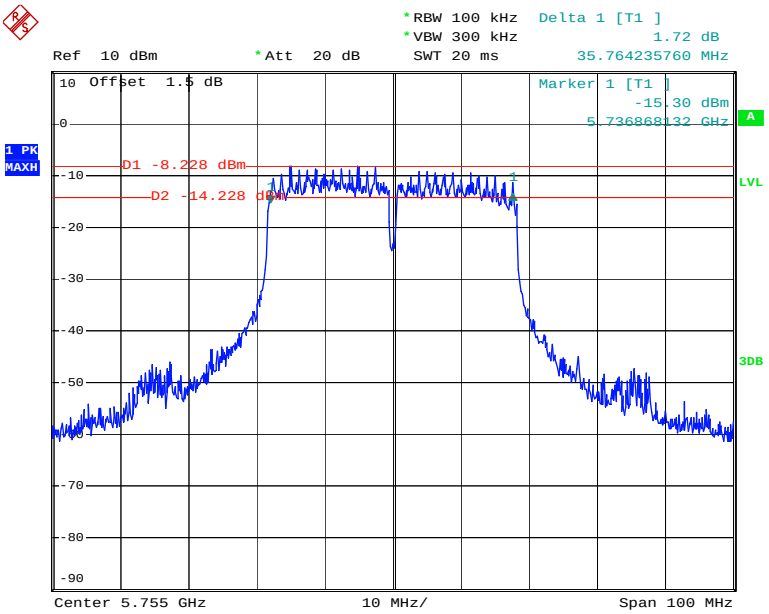
Date: 7.MAY.2014 10:25:10

Chain 0:802.11n ht40 High Channel



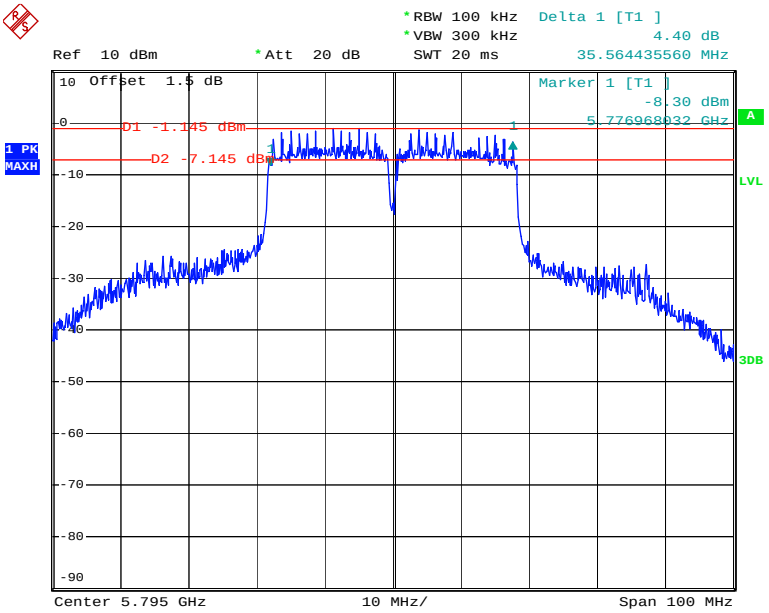
Date: 13.MAY.2014 16:52:34

Chain 1:802.11n ht40 Low Channel



Date: 7.MAY.2014 10:27:58

Chain 1:802.11n ht40 High Channel



Date: 13.MAY.2014 16:55:09

FCC §15.247(b) (3) - MAXIMUM CONDUCTED OUTPUT POWER

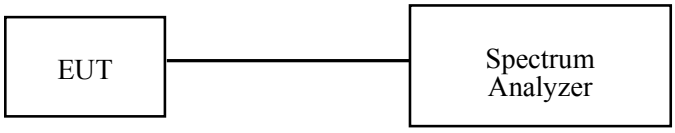
Applicable Standard

According to FCC §15.247(b) (3), for systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01clause9.2.2.2

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
3. Add a correction factor to the display.



Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2013-06-16	2014-06-15

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	24.2~25.7 °C
Relative Humidity:	64~68 %
ATM Pressure:	100.1~100.8 kPa

The testing was performed by Dean Liu from 2014-05-06 to 2014-05-13.

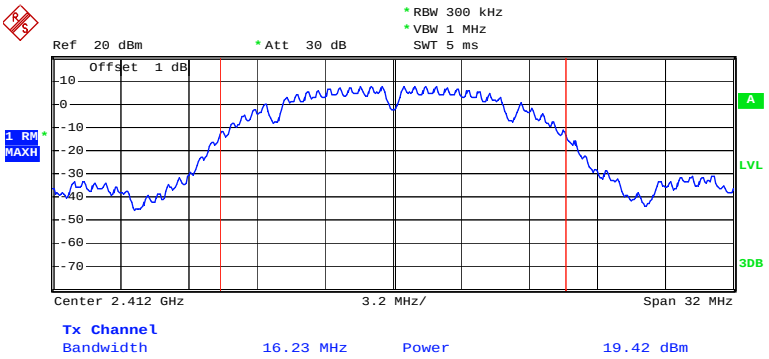
Test Mode: Transmitting

Test mode	Channel	Frequency	Conducted Average Output Power (dBm)			Limit	Result
		(MHz)	Chain0	Chain1	Chain0+1	(dBm)	
2.4GHz band-802.11b	Low	2412	19.42	19.30	/	30	PASS
	Middle	2437	21.00	21.00	/	30	PASS
	High	2462	18.84	19.43	/	30	PASS
2.4GHz band-802.11g	Low	2412	16.35	16.71	/	30	PASS
	Middle	2437	20.38	20.29	/	30	PASS
	High	2462	16.36	17.21	/	30	PASS
2.4GHz band-802.11n ht20	Low	2412	15.14	15.23	18.20	30	PASS
	Middle	2437	20.35	20.16	23.27	30	PASS
	High	2462	14.15	15.68	17.99	30	PASS
2.4GHz band-802.11n ht40	Low	2422	12.30	13.14	15.75	30	PASS
	Middle	2437	20.05	19.70	22.89	30	PASS
	High	2452	12.29	13.93	16.20	30	PASS
5725-5850MHz band-802.11a	Low	5745	12.29	11.64	/	30	PASS
	Middle	5785	17.59	17.51	/	30	PASS
	High	5825	14.19	13.03	/	30	PASS
5725-5850MHz band-802.11n ht20	Low	5745	9.07	8.30	11.71	30	PASS
	Middle	5785	17.43	17.37	20.41	30	PASS
	High	5825	12.24	11.44	14.87	30	PASS
5725-5850MHz band-802.11n ht40	Low	5755	7.85	7.58	10.73	30	PASS
	High	5795	13.22	13.23	16.24	30	PASS

Please refer to the following plots

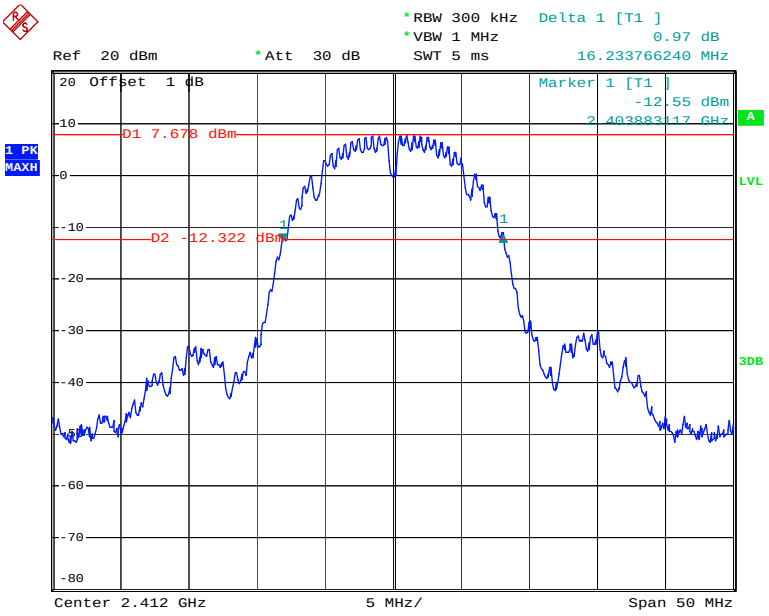
2.4GHz band:

Chain 0: 802.11b RF Output Power, Low Channel



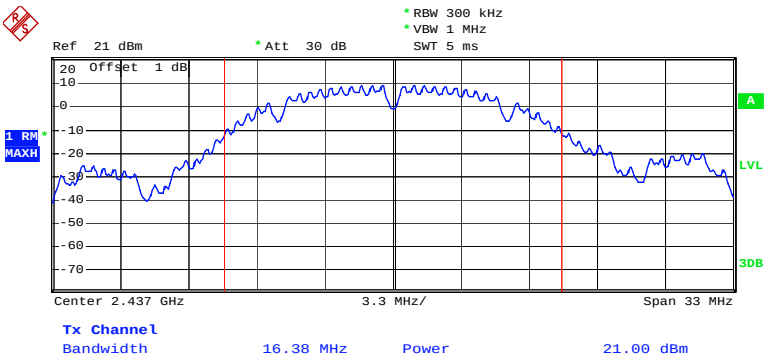
Date: 6.MAY.2014 10:41:04

Chain 0: 802.11b OBW, Low Channel



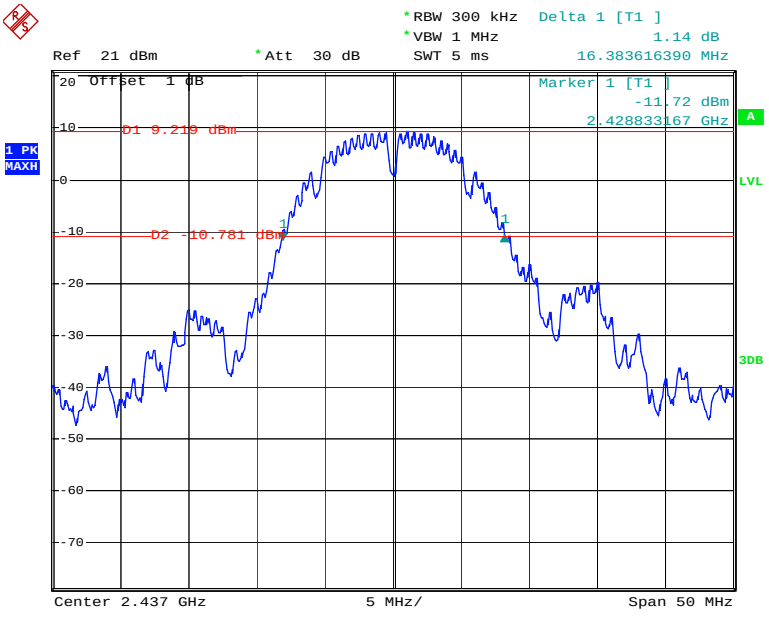
Date: 6.MAY.2014 10:40:56

Chain 0: 802.11b RF Output Power, Middle Channel



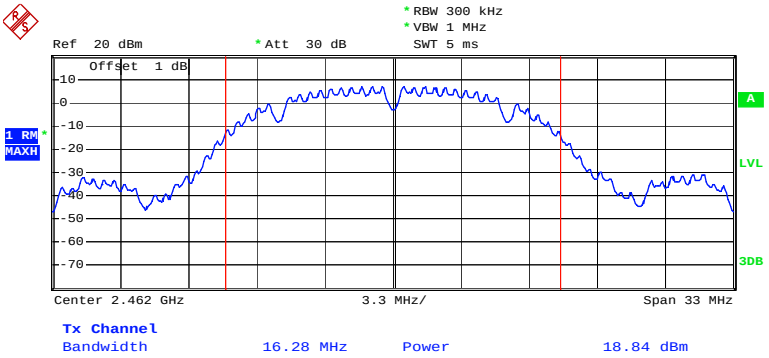
Date: 12.MAY.2014 18:03:58

Chain 0: 802.11b OBW, Middle Channel



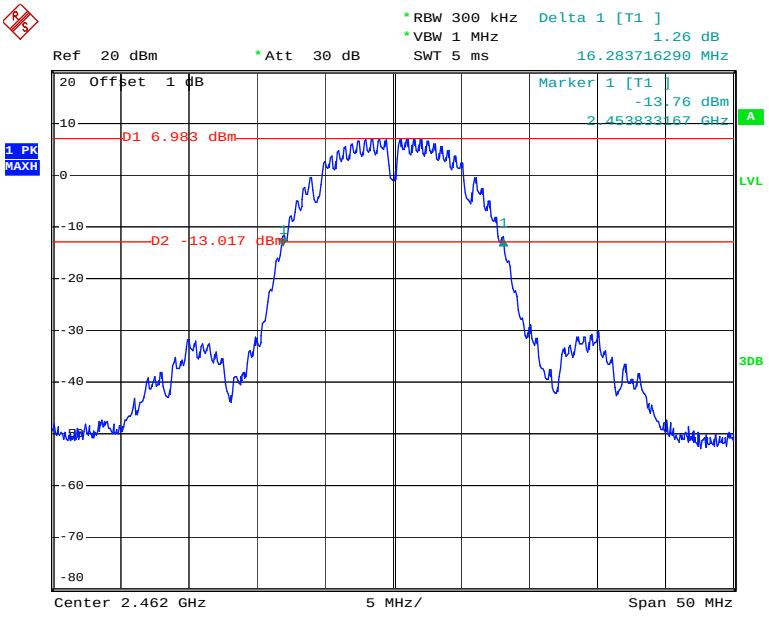
Date: 12.MAY.2014 18:03:43

Chain 0: 802.11b RF Output Power, High Channel



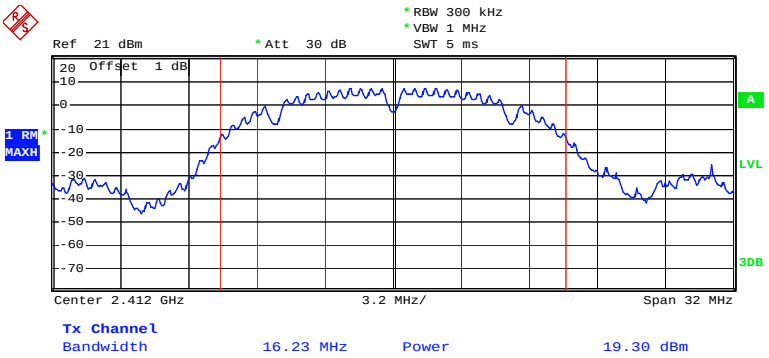
Date: 6.MAY.2014 10:44:07

Chain 0: 802.11b OBW, High Channel



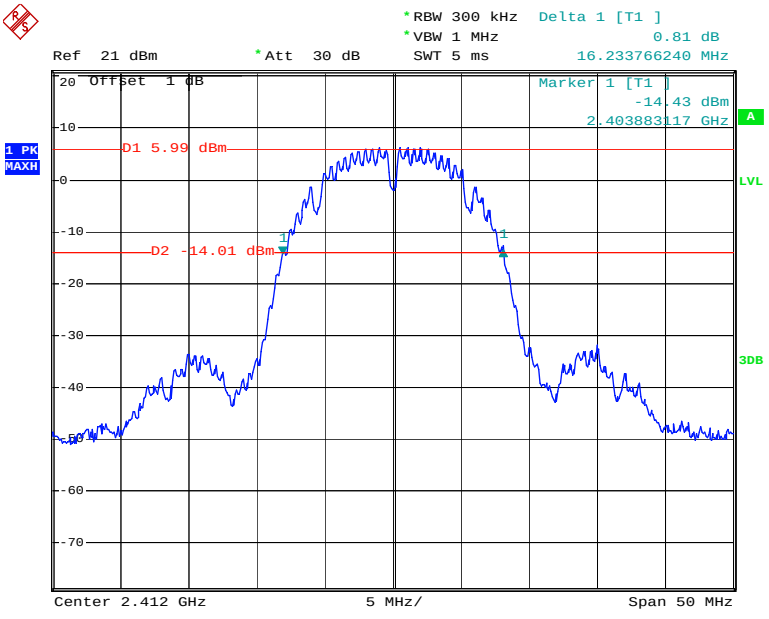
Date: 6.MAY.2014 10:43:56

Chain 1: 802.11b RF Output Power, Low Channel



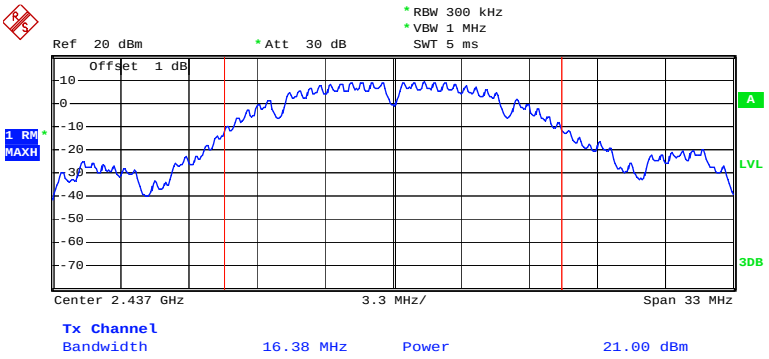
Date: 9.MAY.2014 15:26:28

Chain 1: 802.11b OBW, Low Channel



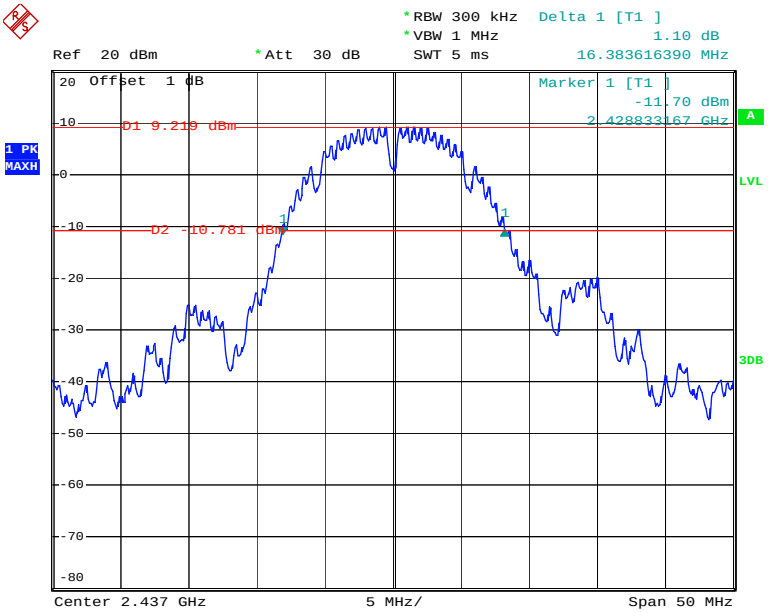
Date: 9.MAY.2014 15:25:44

Chain 1: 802.11b RF Output Power, Middle Channel



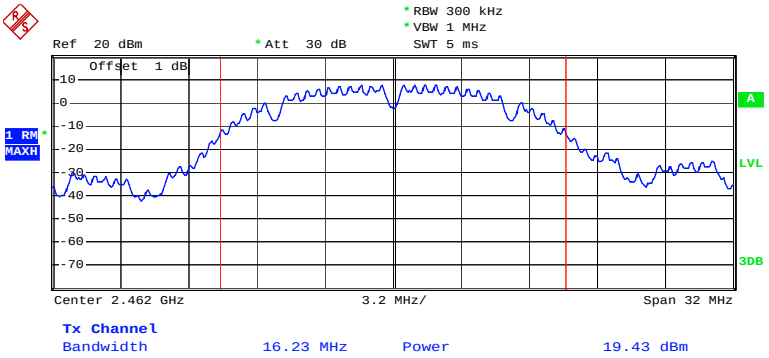
Date: 12.MAY.2014 18:05:12

Chain 1: 802.11b OBW, Middle Channel



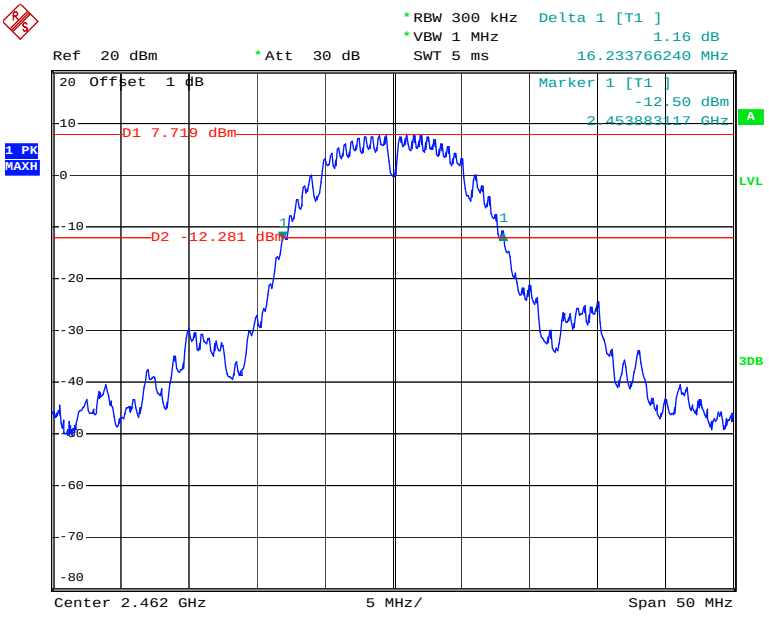
Date: 12.MAY.2014 18:04:57

Chain 1: 802.11b RF Output Power, High Channel



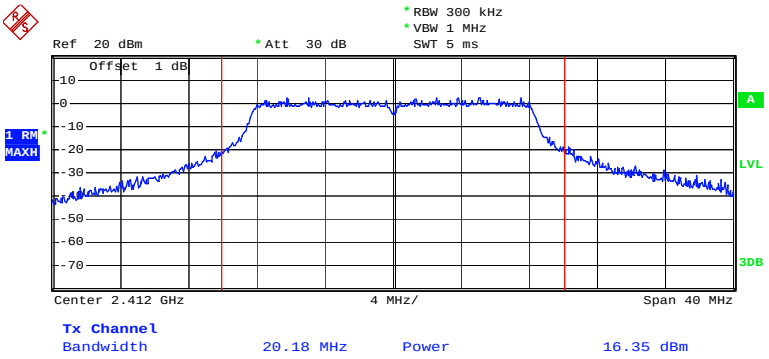
Date: 9.MAY.2014 15:43:59

Chain 1: 802.11b OBW, High Channel



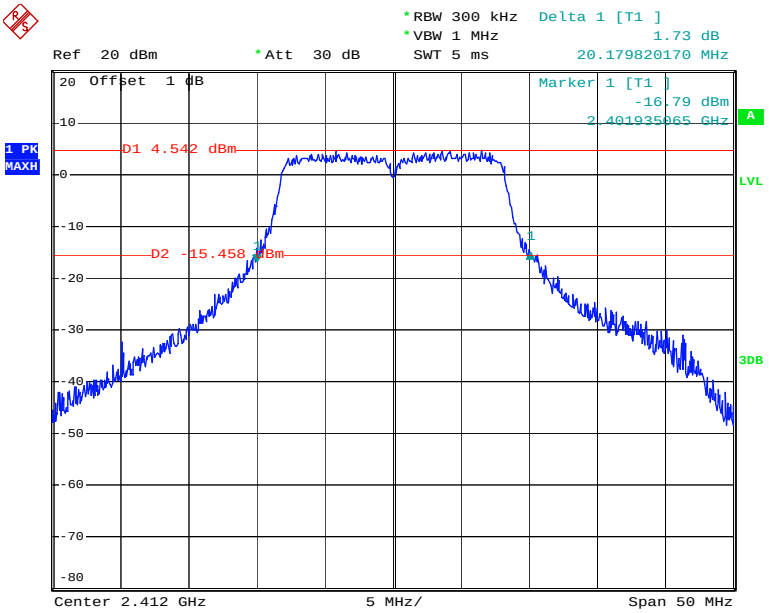
Date: 9.MAY.2014 15:43:49

Chain 0: 802.11g RF Output Power, Low Channel



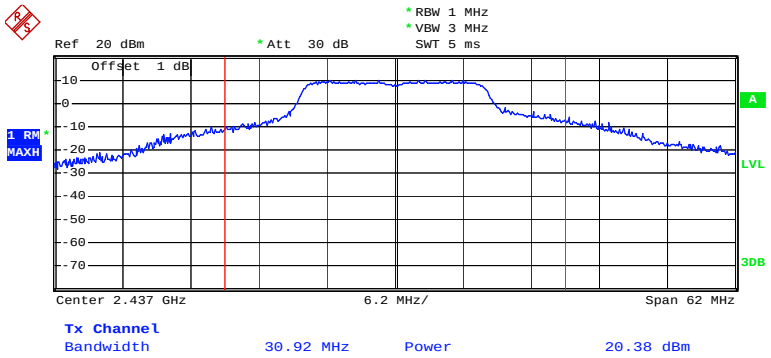
Date: 6.MAY.2014 10:50:52

Chain 0: 802.11g OBW, Low Channel



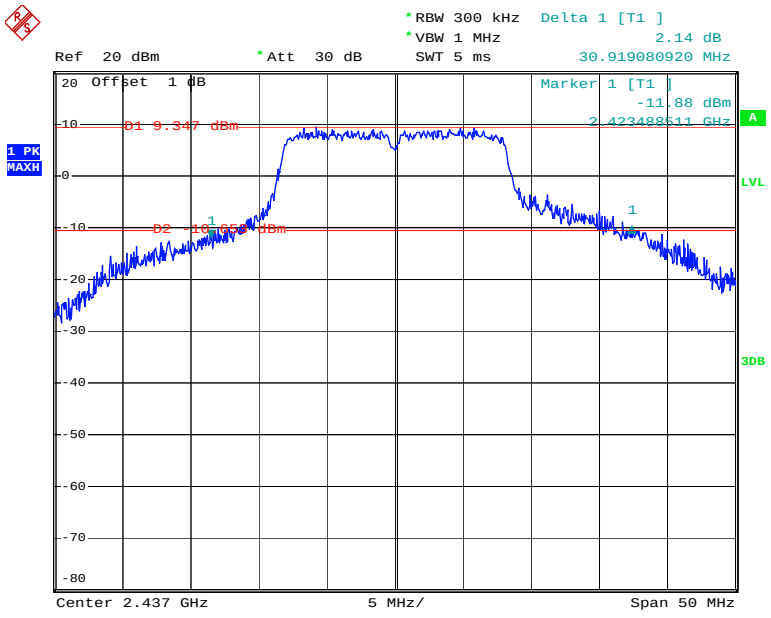
Date: 6.MAY.2014 10:50:45

Chain 0: 802.11g RF Output Power, Middle Channel



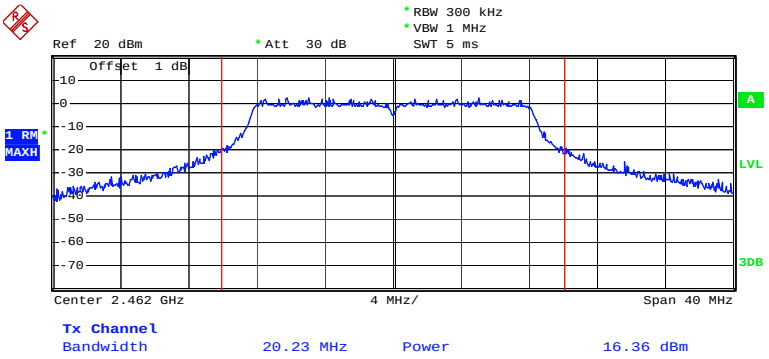
Date: 12.MAY.2014 18:07:29

Chain 0: 802.11g OBW, Middle Channel



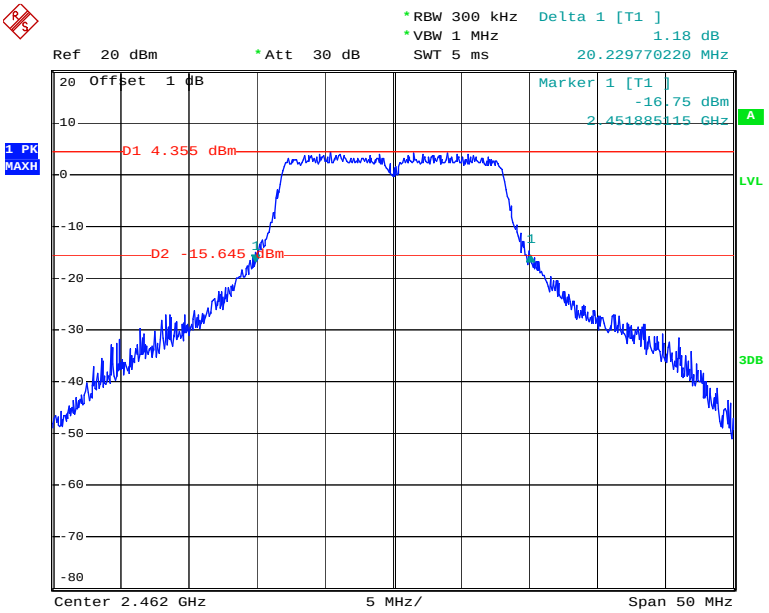
Date: 12.MAY.2014 18:06:36

Chain 0: 802.11g RF Output Power, High Channel



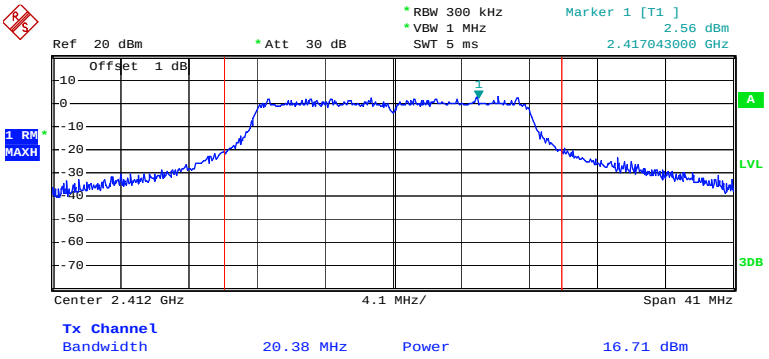
Date: 6.MAY.2014 10:54:12

Chain 0: 802.11g OBW, High Channel



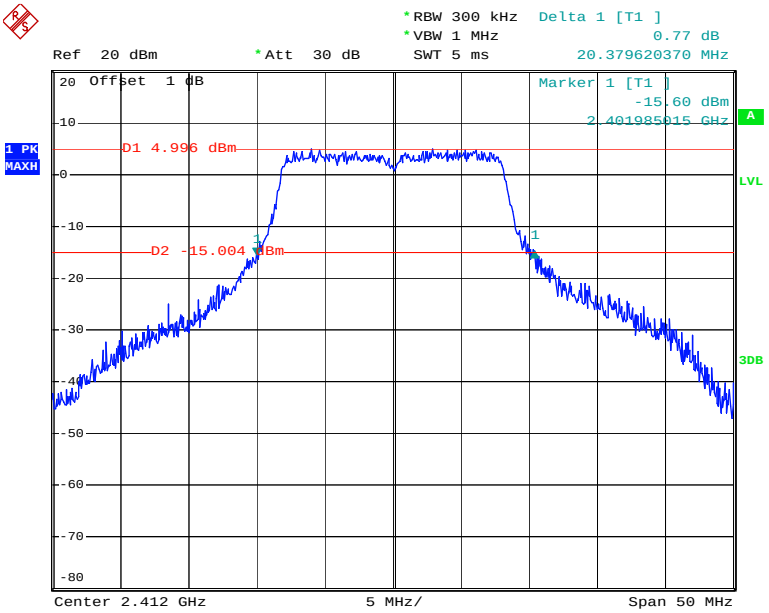
Date: 6.MAY.2014 10:53:58

Chain 1: 802.11g RF Output Power, Low Channel



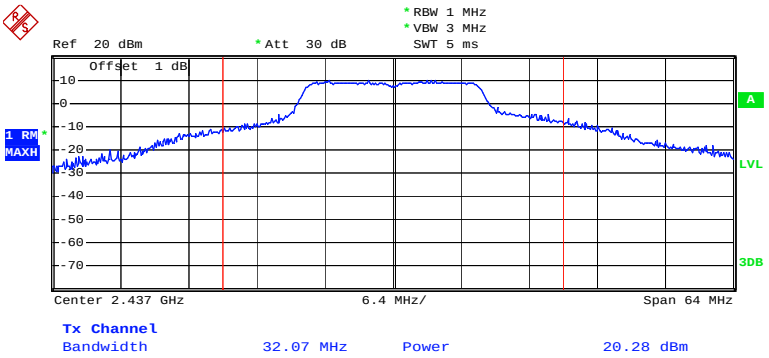
Date: 9.MAY.2014 15:49:59

Chain 1: 802.11g OBW, Low Channel



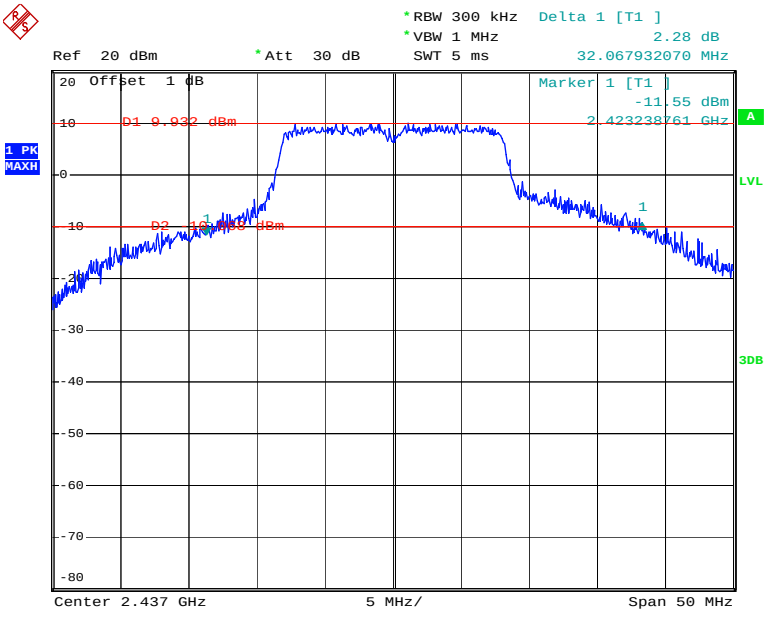
Date: 9.MAY.2014 15:48:06

Chain 1: 802.11g RF Output Power, Middle Channel



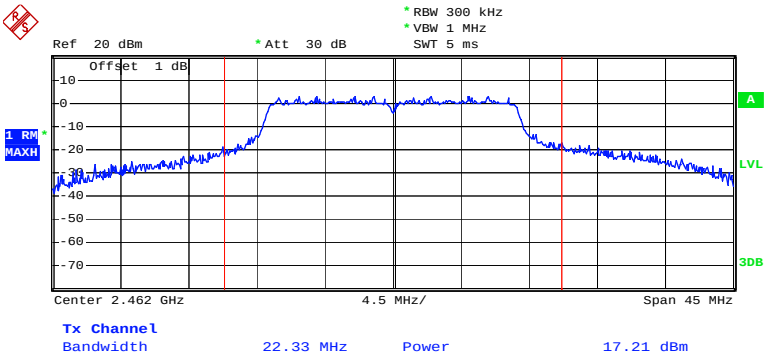
Date: 12.MAY.2014 18:09:41

Chain 1: 802.11g OBW, Middle Channel



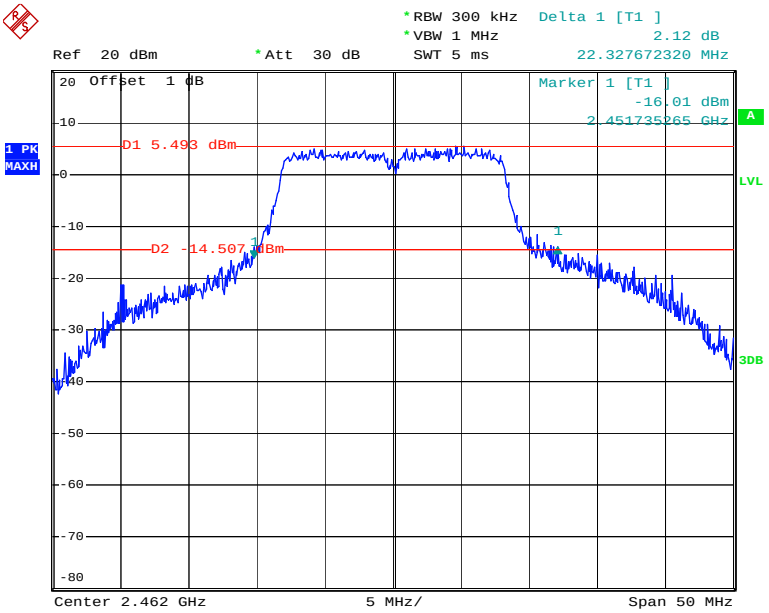
Date: 12.MAY.2014 18:09:20

Chain 1: 802.11g RF Output Power, High Channel



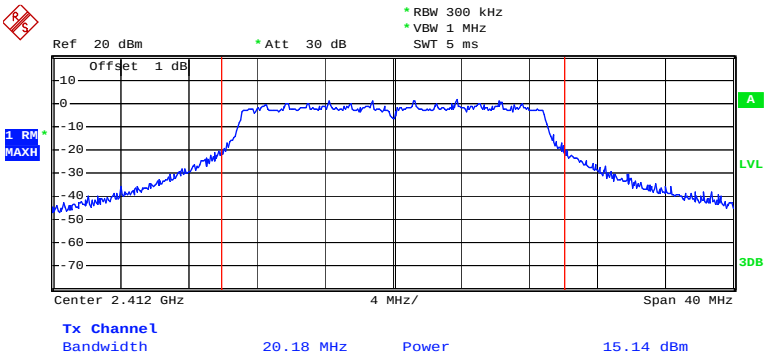
Date: 9.MAY.2014 16:00:05

Chain 1: 802.11g OBW, High Channel



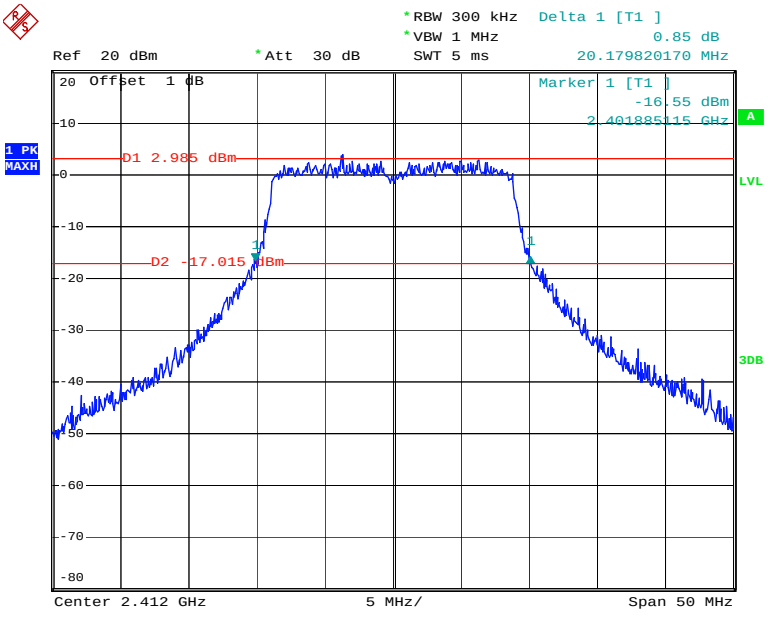
Date: 9.MAY.2014 15:59:52

Chain 0: 802.11n ht20 RF Output Power, Low Channel



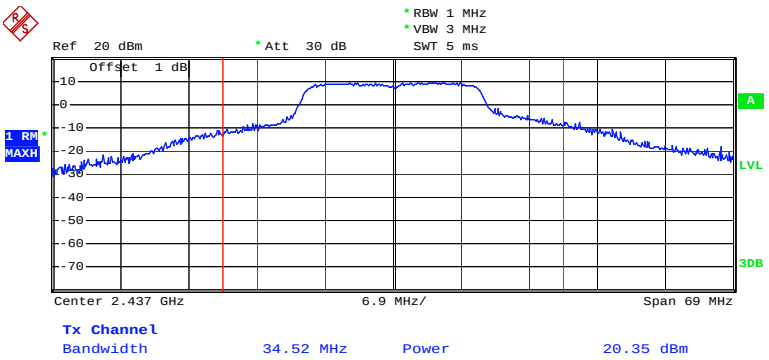
Date: 6.MAY.2014 10:59:09

Chain 0: 802.11n ht20 OBW, Low Channel



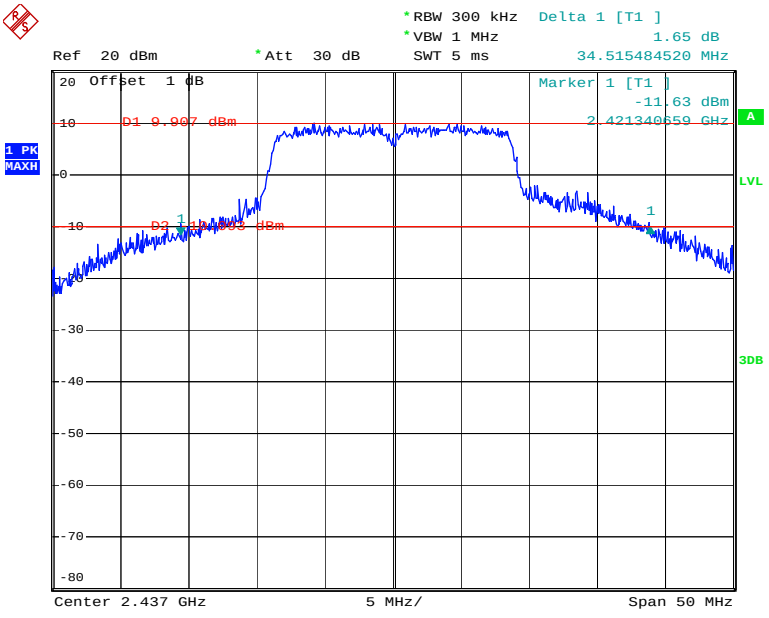
Date: 6.MAY.2014 10:58:50

Chain 0: 802.11n ht20 RF Output Power, Middle Channel



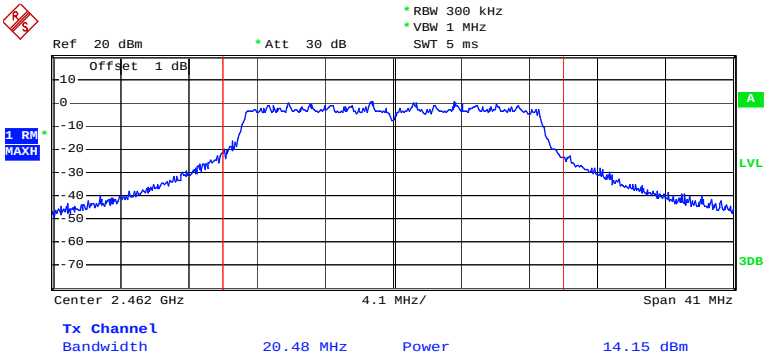
Date: 12.MAY.2014 18:11:38

Chain 0: 802.11n ht20 OBW, Middle Channel



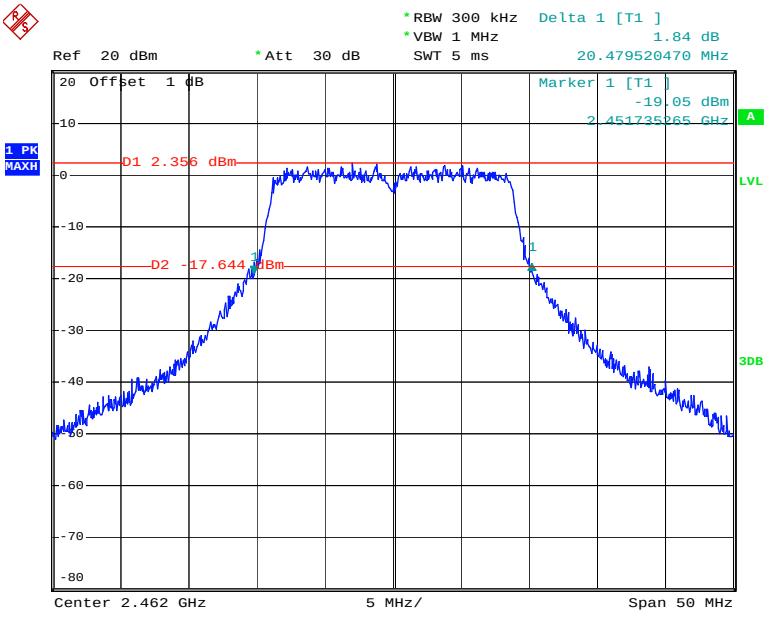
Date: 12.MAY.2014 18:11:18

Chain 0: 802.11n ht20 RF Output Power, High Channel



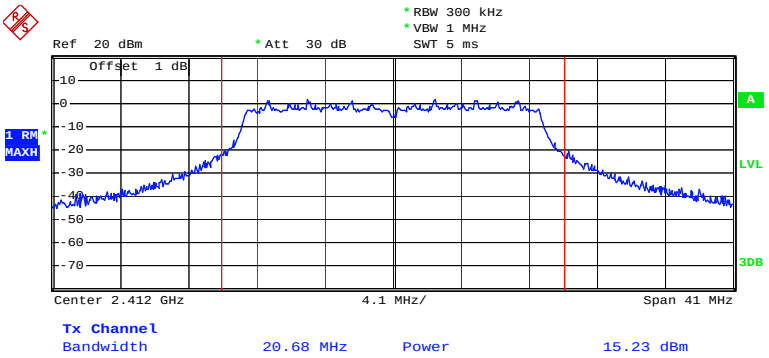
Date: 6.MAY.2014 11:10:25

Chain 0: 802.11n ht20 OBW, High Channel



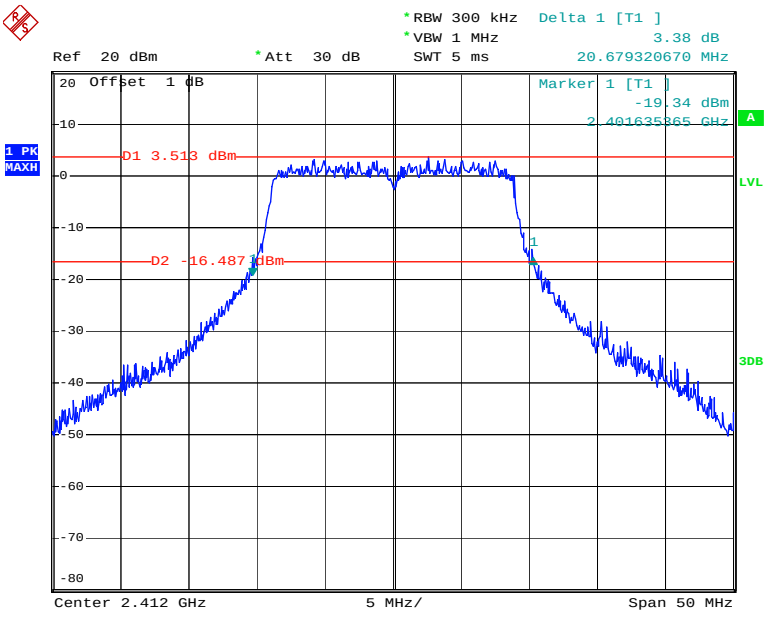
Date: 6.MAY.2014 11:10:08

Chain 1: 802.11n ht20 RF Output Power, Low Channel



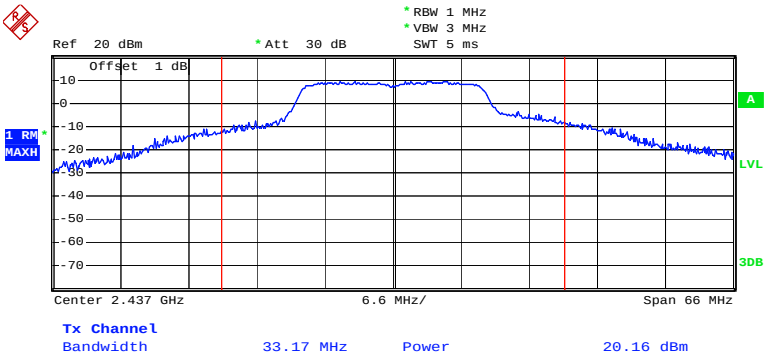
Date: 6.MAY.2014 11:01:34

Chain 1: 802.11n ht20 OBW, Low Channel



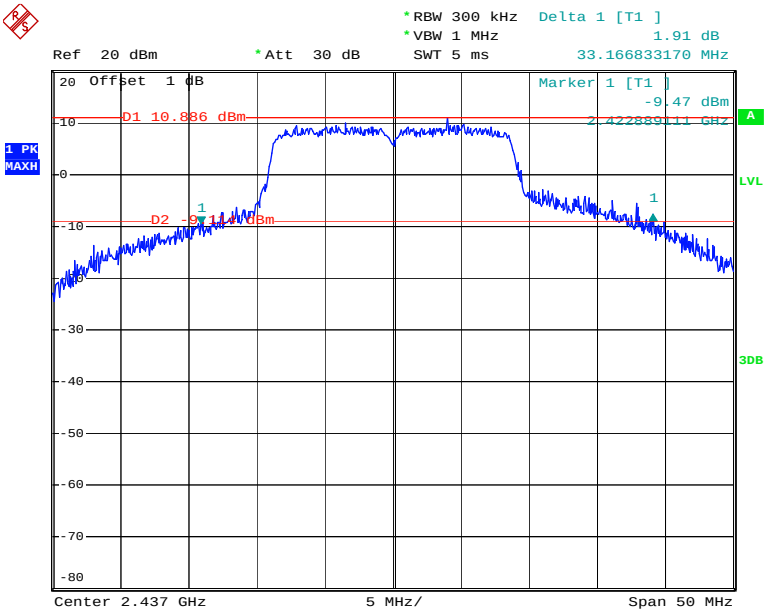
Date: 6.MAY.2014 11:01:20

Chain 1: 802.11n ht20 RF Output Power, Middle Channel



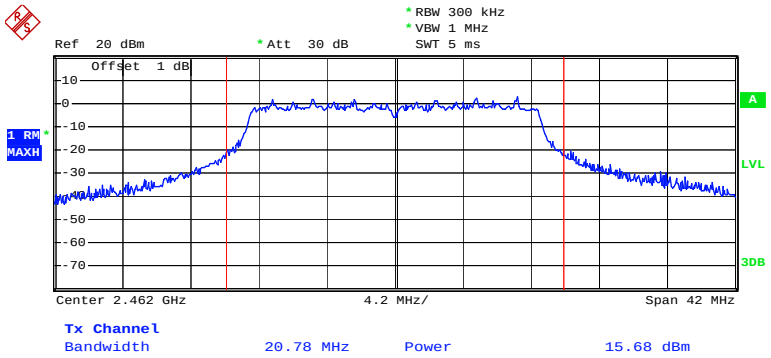
Date: 12.MAY.2014 18:12:52

Chain 1: 802.11n ht20 OBW, Middle Channel



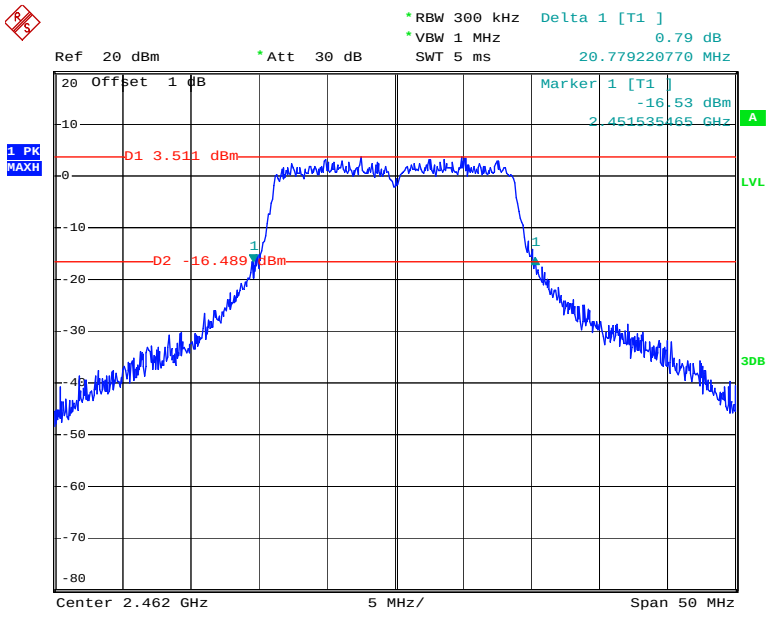
Date: 12.MAY.2014 18:12:41

Chain 1: 802.11n ht20 RF Output Power, High Channel



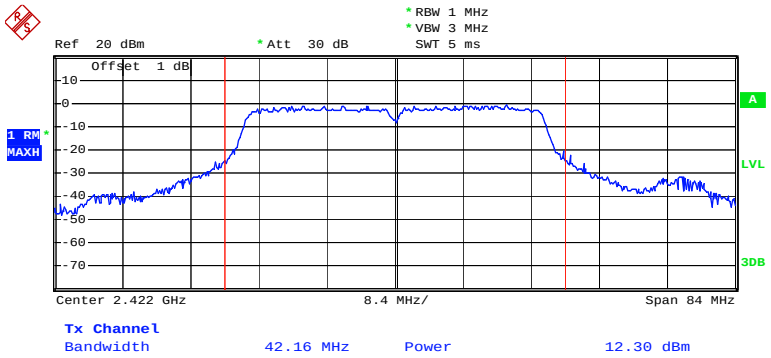
Date: 6.MAY.2014 11:30:03

Chain 1: 802.11n ht20 OBW, High Channel



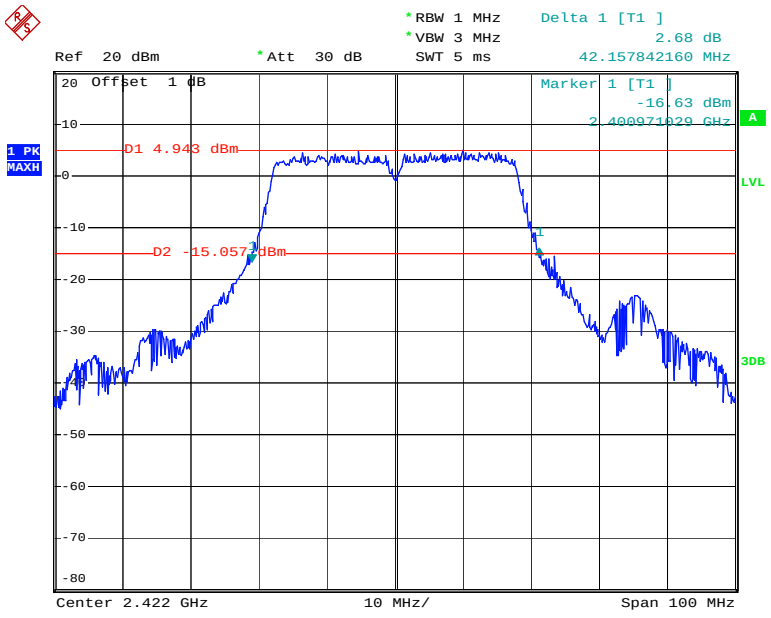
Date: 6.MAY.2014 11:29:38

Chain 0: 802.11n ht40 RF Output Power, Low Channel



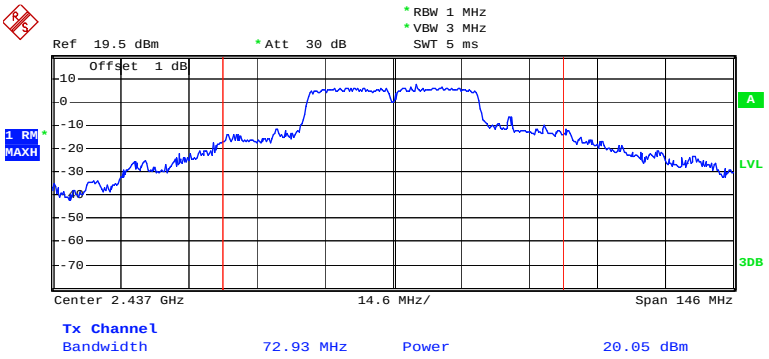
Date: 6.MAY.2014 11:13:35

Chain 0: 802.11n ht40 OBW, Low Channel



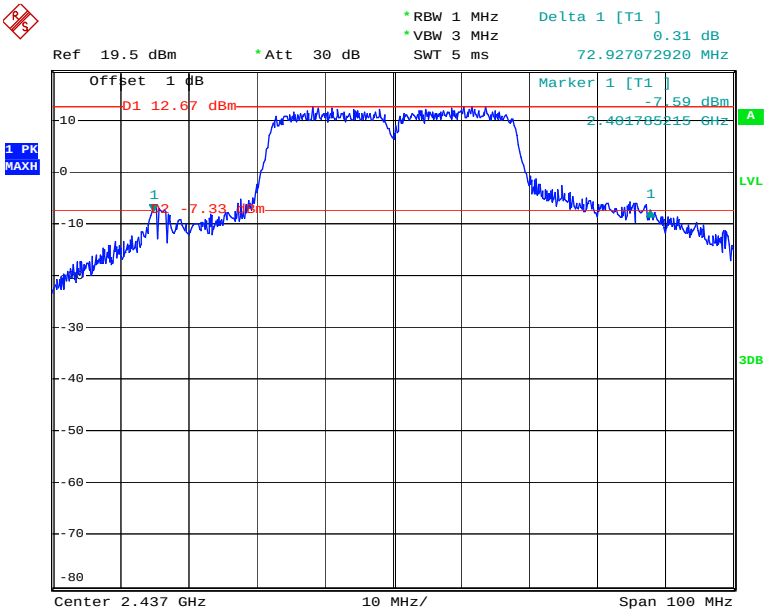
Date: 6.MAY.2014 11:13:25

Chain 0: 802.11n ht40 RF Output Power, Middle Channel



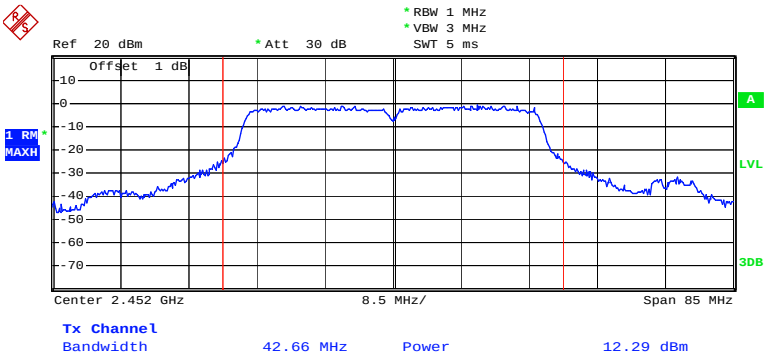
Date: 13.MAY.2014 11:19:05

Chain 0: 802.11n ht40 OBW, Middle Channel



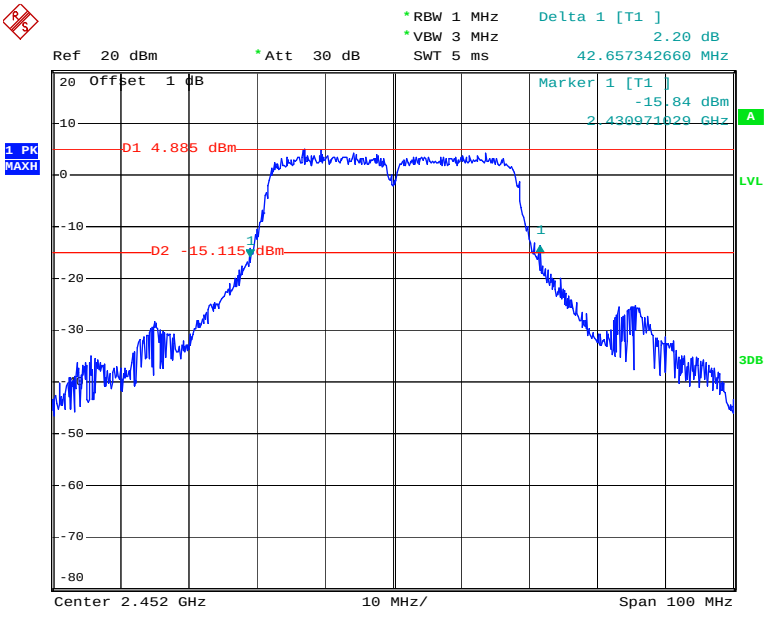
Date: 13.MAY.2014 11:18:51

Chain 0: 802.11n ht40 RF Output Power, High Channel



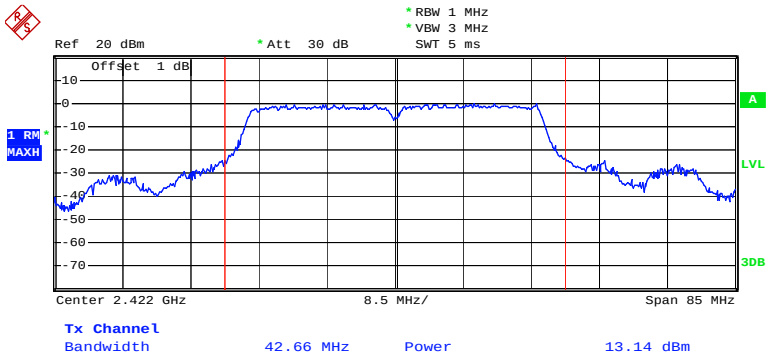
Date: 6.MAY.2014 11:25:41

Chain 0: 802.11n ht40 OBW, High Channel



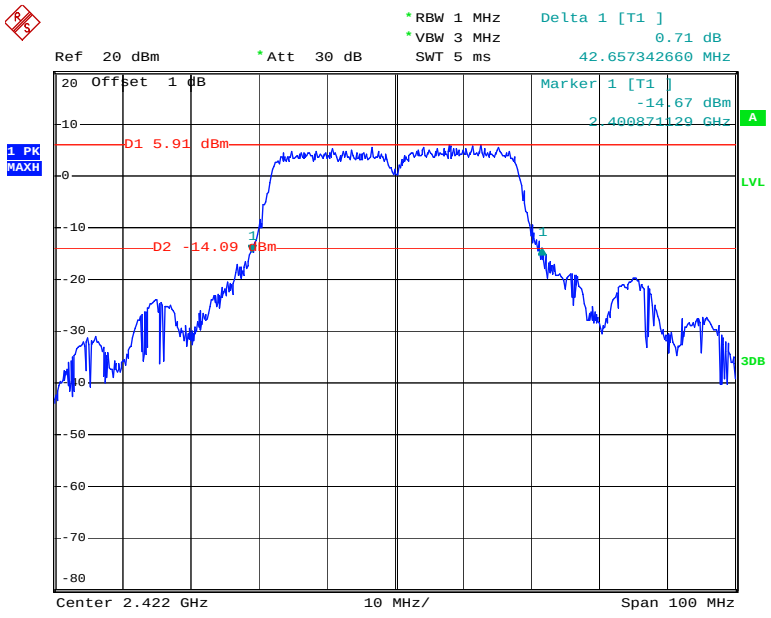
Date: 6.MAY.2014 11:25:10

Chain 1: 802.11n ht40 RF Output Power, Low Channel



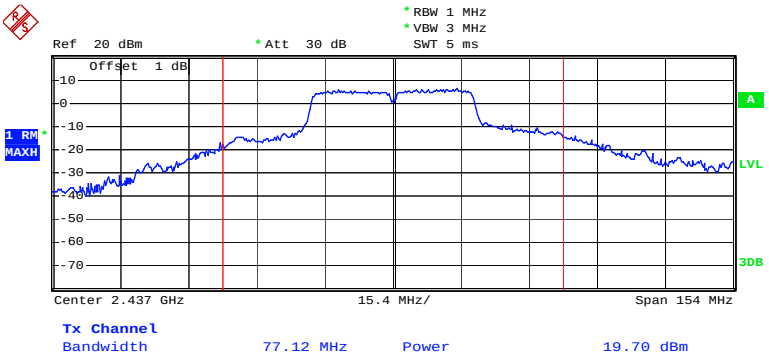
Date: 6.MAY.2014 11:16:12

Chain 1: 802.11n ht40 OBW, Low Channel



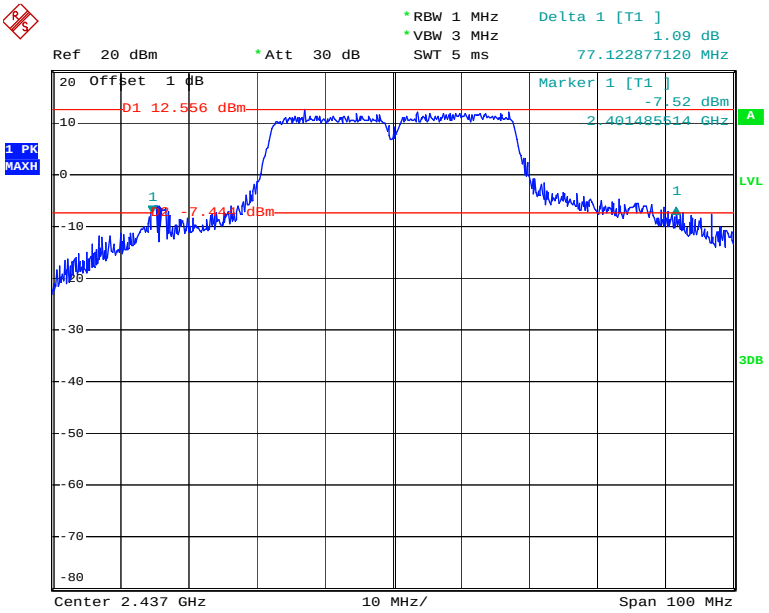
Date: 6.MAY.2014 11:15:58

Chain 1: 802.11n ht40 RF Output Power, Middle Channel



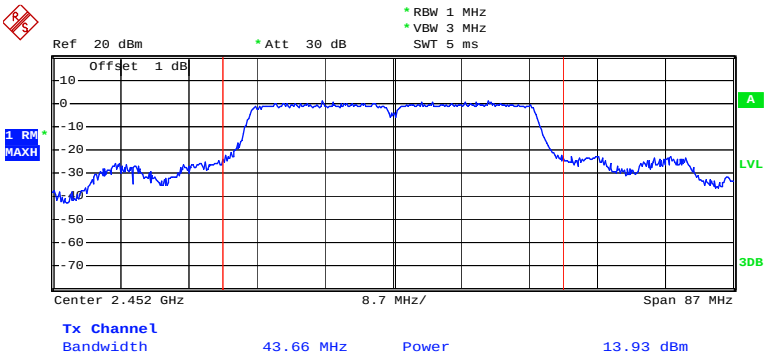
Date: 12.MAY.2014 18:18:15

Chain 1: 802.11n ht40 OBW, Middle Channel



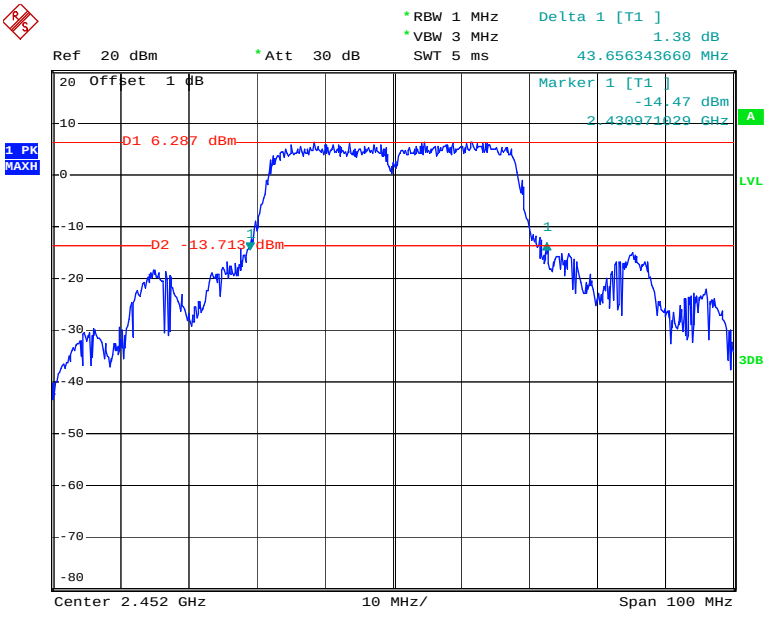
Date: 12.MAY.2014 18:17:51

Chain 1: 802.11n ht40 RF Output Power, High Channel



Date: 6.MAY.2014 11:27:39

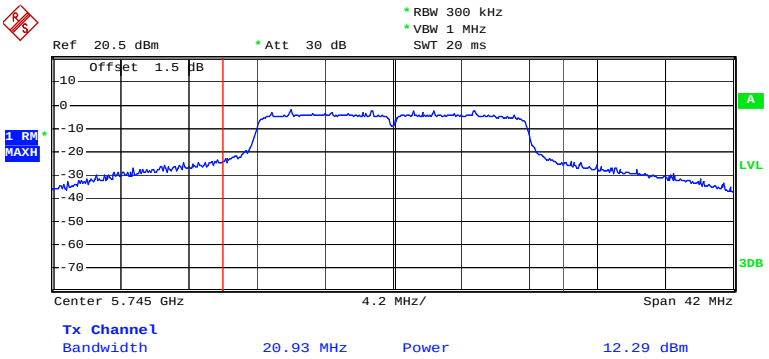
Chain 1: 802.11n ht40 OBW, High Channel



Date: 6.MAY.2014 11:27:23

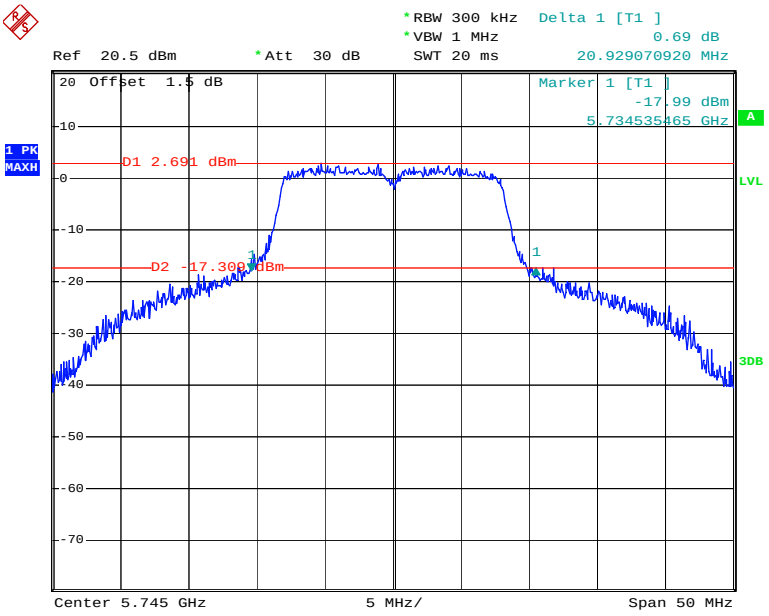
5725-5850 MHz:

Chain 0:802.11a RF Output Power, Low Channel



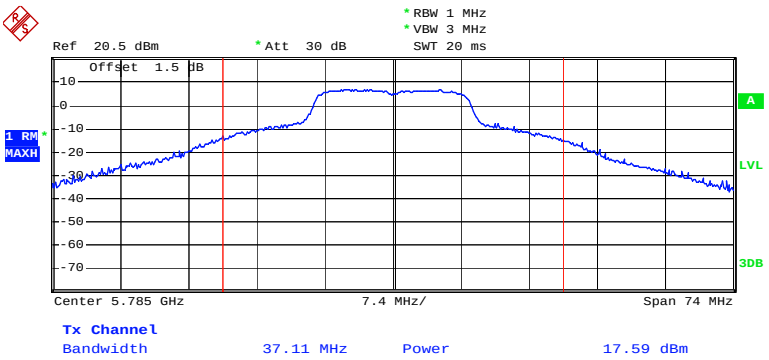
Date: 7.MAY.2014 09:22:53

Chain 0:802.11a OBW, Low Channel



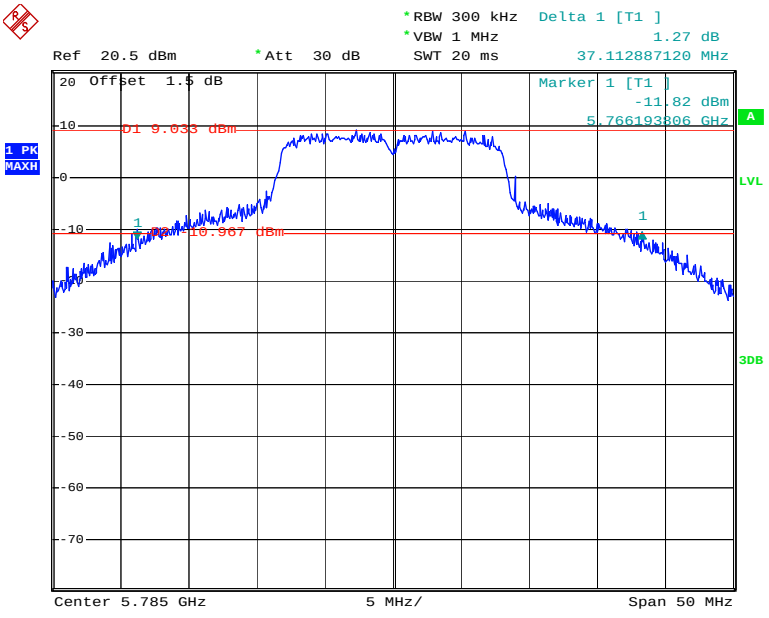
Date: 7.MAY.2014 09:22:37

Chain 0:802.11a RF Output Power, Middle Channel



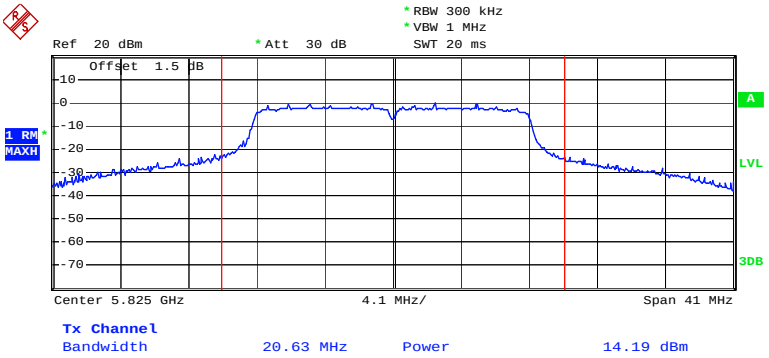
Date: 12.MAY.2014 18:21:25

Chain 0:802.11a OBW, Middle Channel



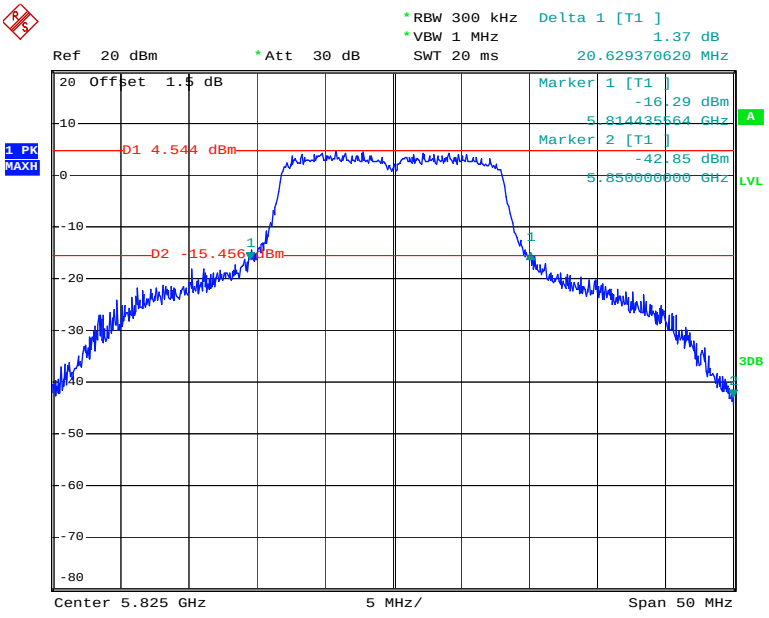
Date: 12.MAY.2014 18:20:46

Chain 0:802.11a RF Output Power, High Channel



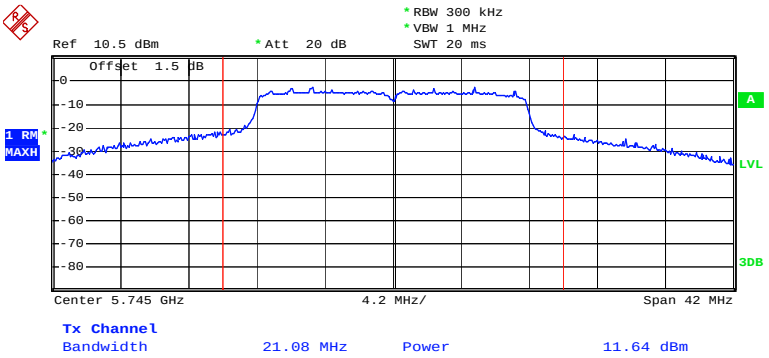
Date: 7.MAY.2014 09:38:45

Chain 0:802.11a OBW, High Channel



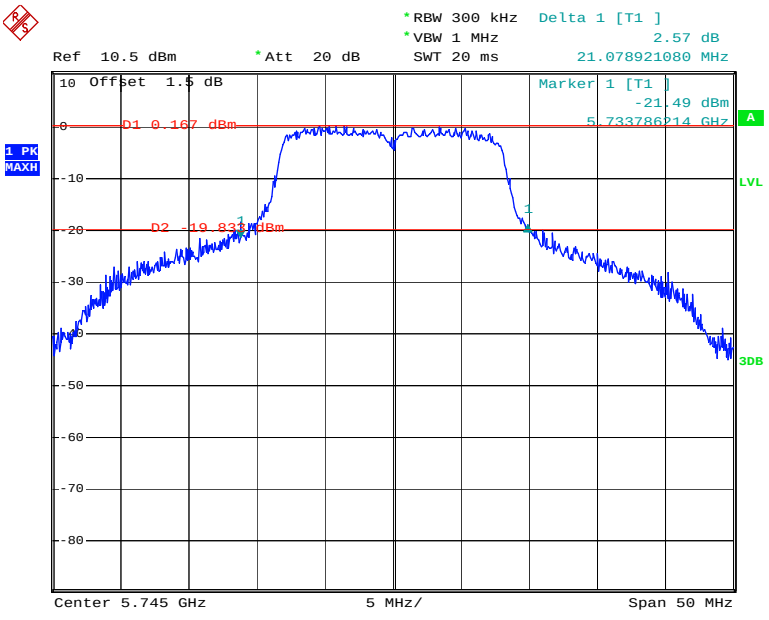
Date: 7.MAY.2014 09:38:29

Chain 1:802.11a RF Output Power, Low Channel



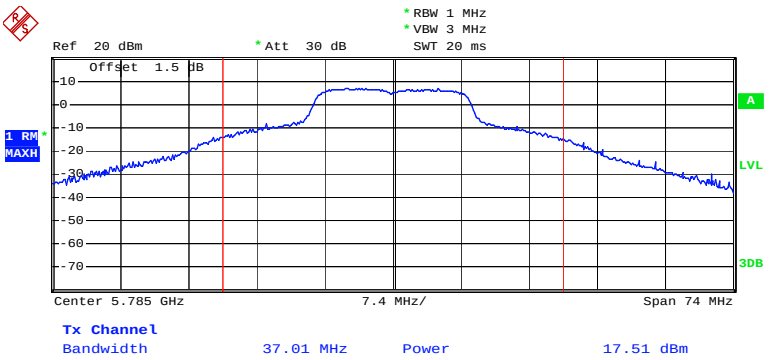
Date: 9.MAY.2014 16:19:02

Chain 1:802.11a OBW, Low Channel



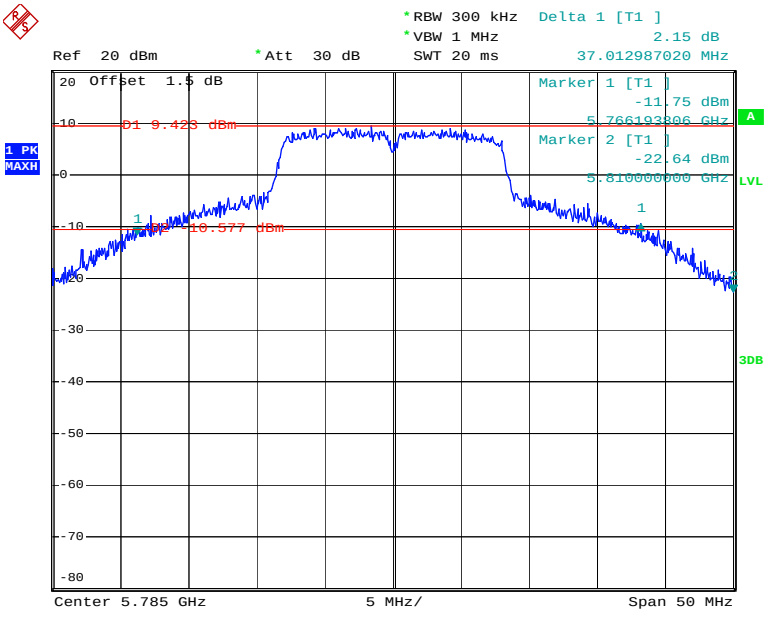
Date: 9.MAY.2014 16:18:42

Chain 1:802.11a RF Output Power, Middle Channel



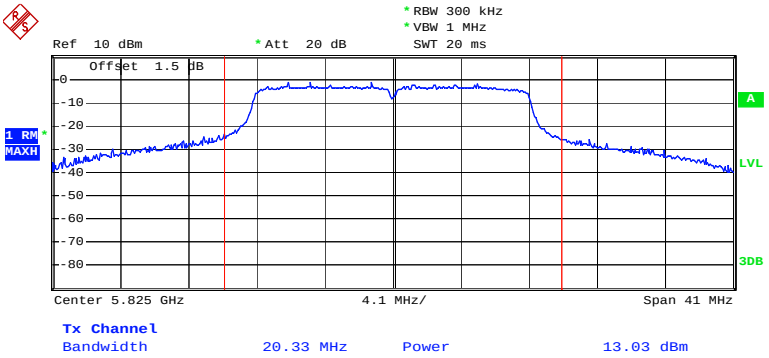
Date: 12.MAY.2014 18:27:13

Chain 1:802.11a OBW, Middle Channel



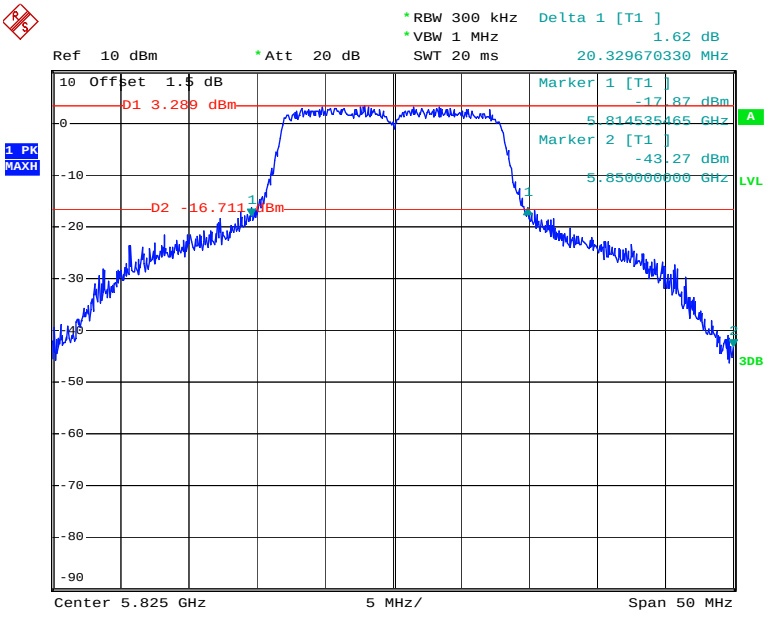
Date: 12.MAY.2014 18:27:04

Chain 1:802.11a RF Output Power, High Channel



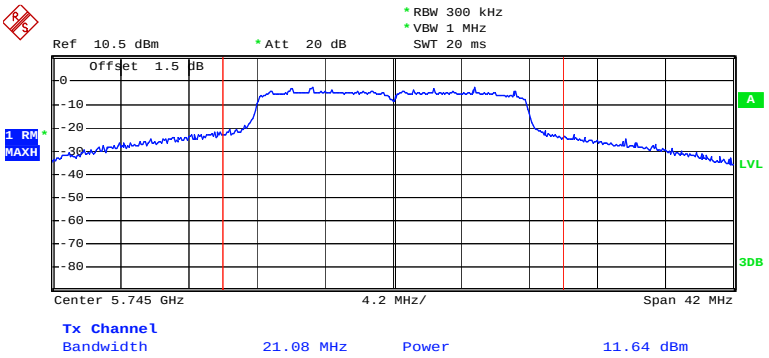
Date: 9.MAY.2014 16:25:05

Chain 1:802.11a OBW, High Channel



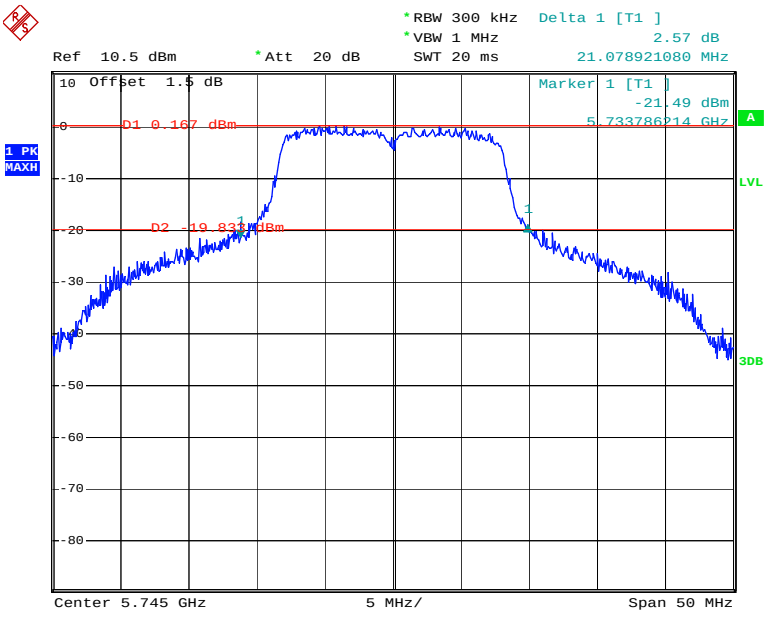
Date: 9.MAY.2014 16:24:54

Chain 0:802.11n ht20 RF Output Power, Low Channel



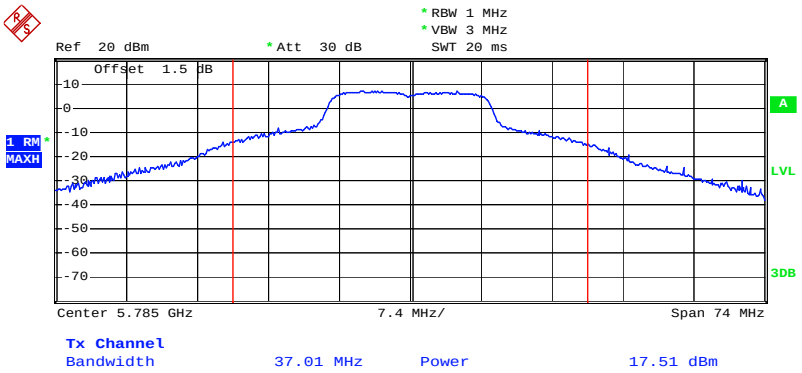
Date: 9.MAY.2014 16:19:02

Chain 0:802.11n ht20 OBW, Low Channel



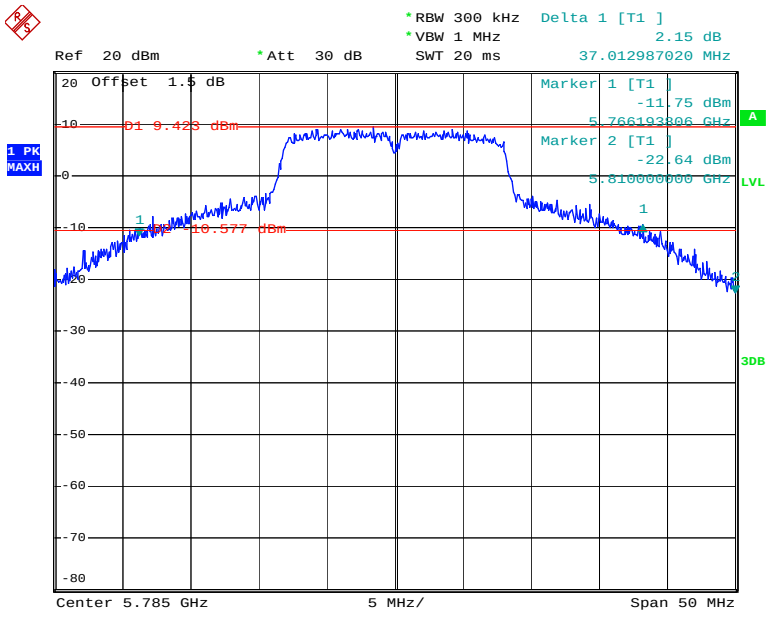
Date: 9.MAY.2014 16:18:42

Chain 0:802.11n ht20 RF Output Power, Middle Channel



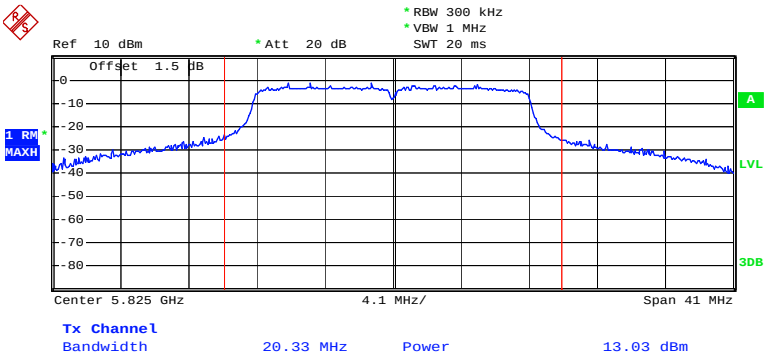
Date: 12.MAY.2014 18:27:13

Chain 0:802.11n ht20 OBW, Middle Channel



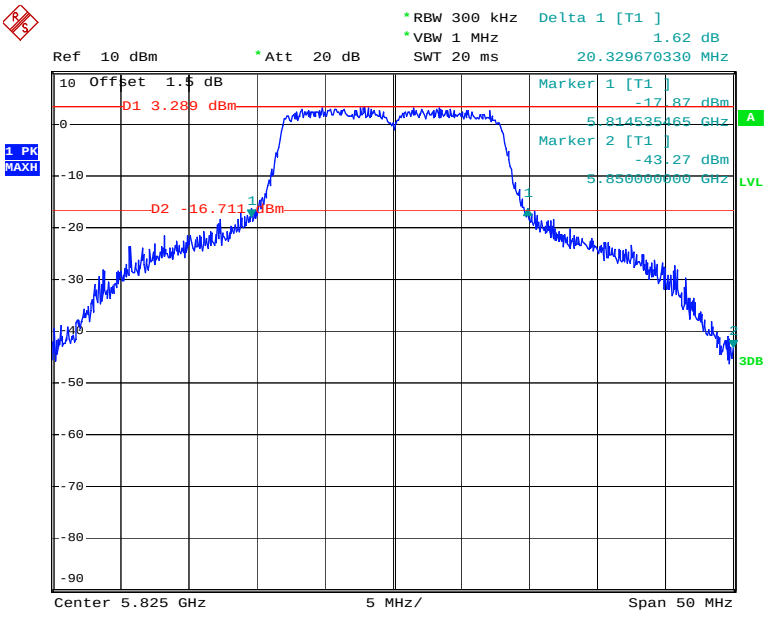
Date: 12.MAY.2014 18:27:04

Chain 0:802.11n ht20 RF Output Power, High Channel



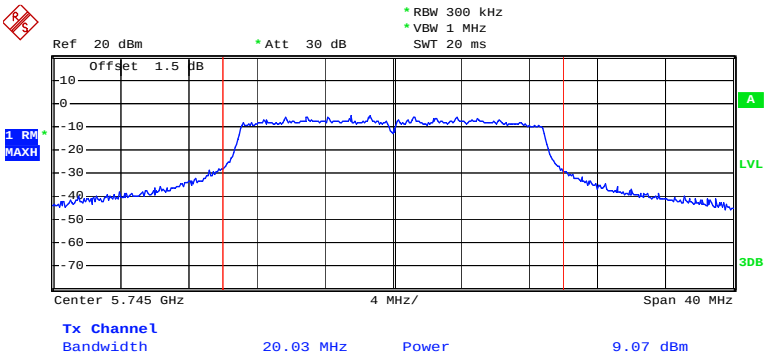
Date: 9.MAY.2014 16:25:05

Chain 0:802.11n ht20 OBW, High Channel



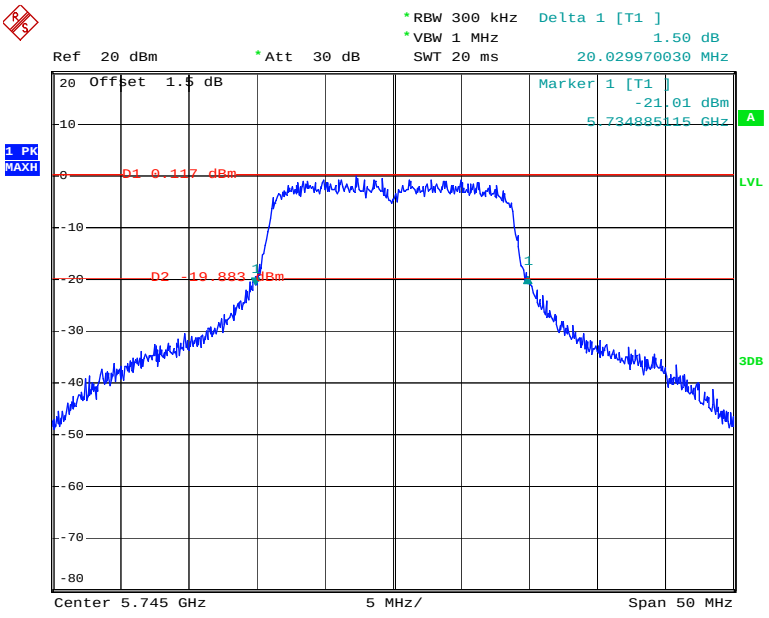
Date: 9.MAY.2014 16:24:54

Chain 1:802.11n ht20 RF Output Power, Low Channel



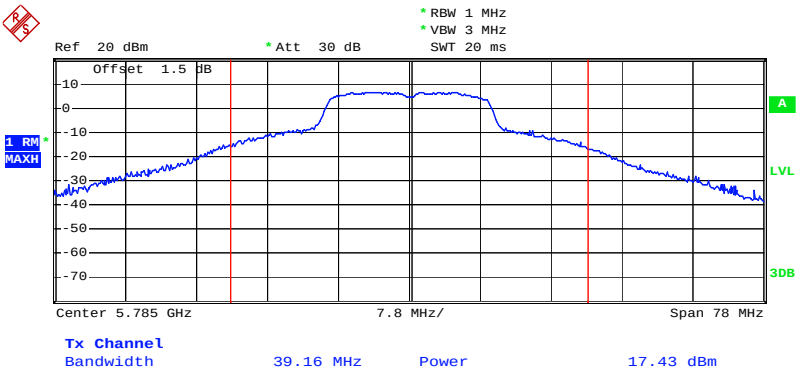
Date: 7.MAY.2014 09:45:18

Chain 1:802.11n ht20 OBW, Low Channel



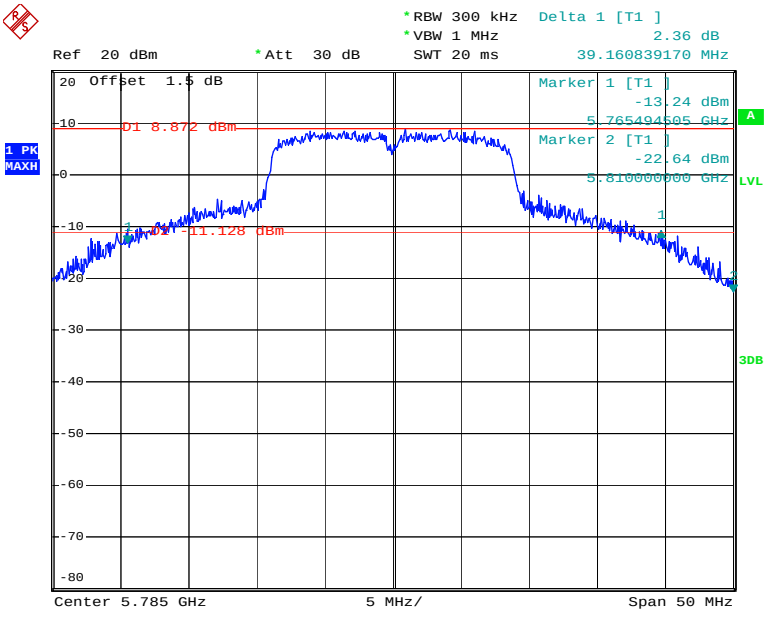
Date: 7.MAY.2014 09:44:59

Chain 1:802.11n ht20 RF Output Power, Middle Channel



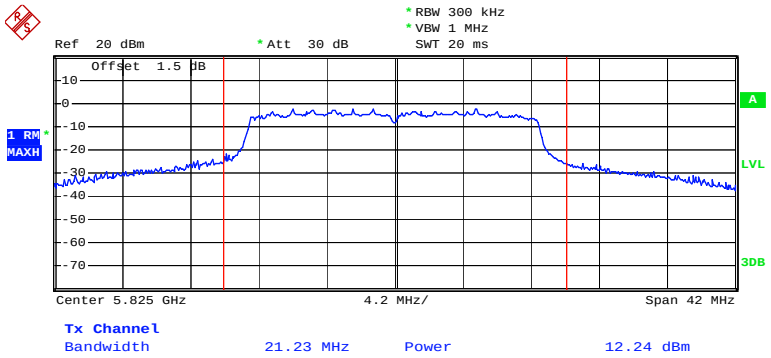
Date: 12.MAY.2014 18:29:40

Chain 1:802.11n ht20 OBW, Middle Channel



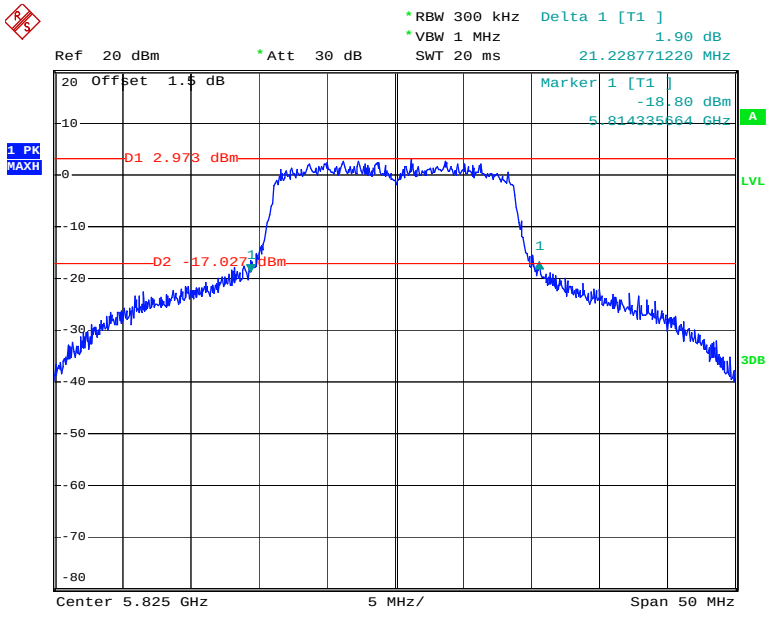
Date: 12.MAY.2014 18:29:02

Chain 1:802.11n ht20 RF Output Power, High Channel



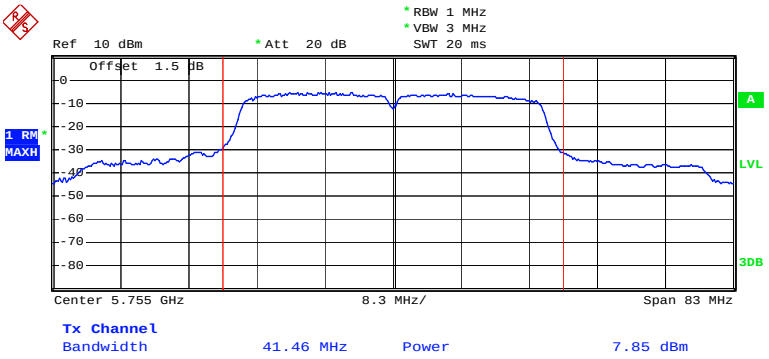
Date: 7.MAY.2014 10:15:32

Chain 1:802.11n ht20 OBW, High Channel



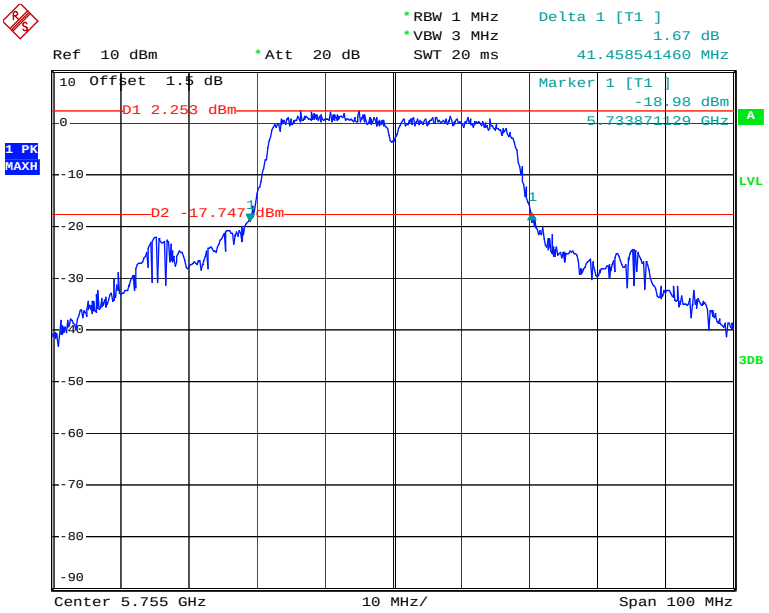
Date: 7.MAY.2014 10:15:17

Chain 0:802.11n ht40 RF Output Power, Low Channel



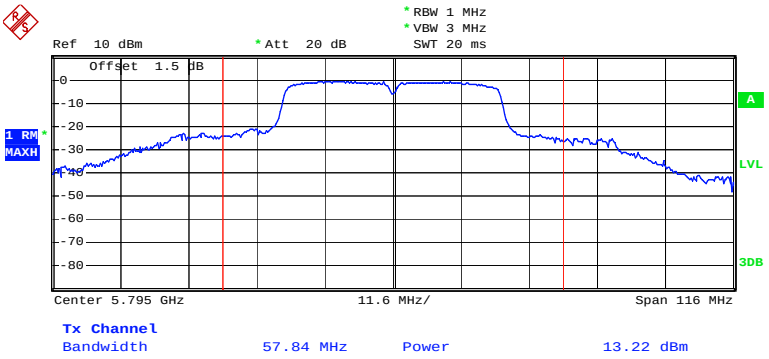
Date: 7.MAY.2014 10:25:50

Chain 0:802.11n ht40 OBW, Low Channel



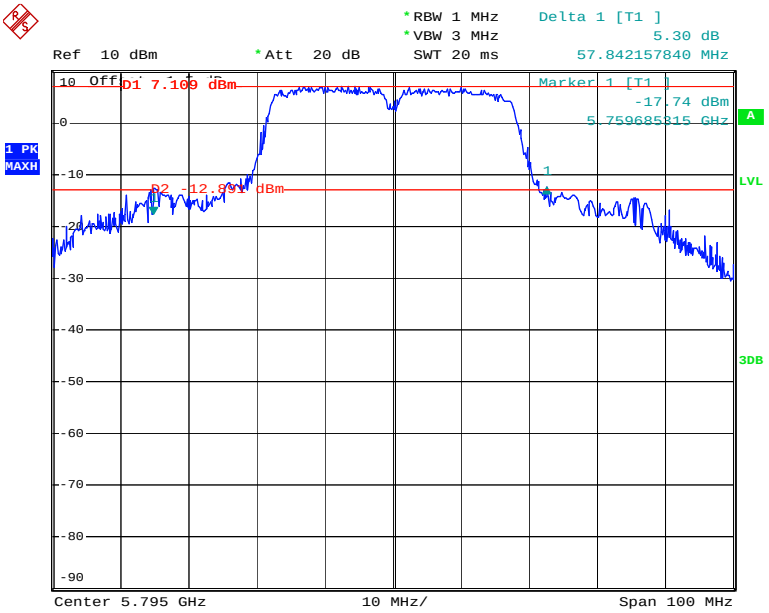
Date: 7.MAY.2014 10:25:24

Chain 0:802.11n ht40 RF Output Power, High Channel



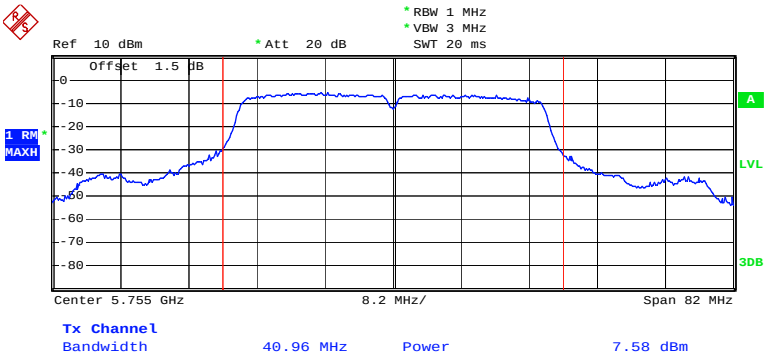
Date: 13.MAY.2014 16:53:01

Chain 0:802.11n ht40 OBW, High Channel



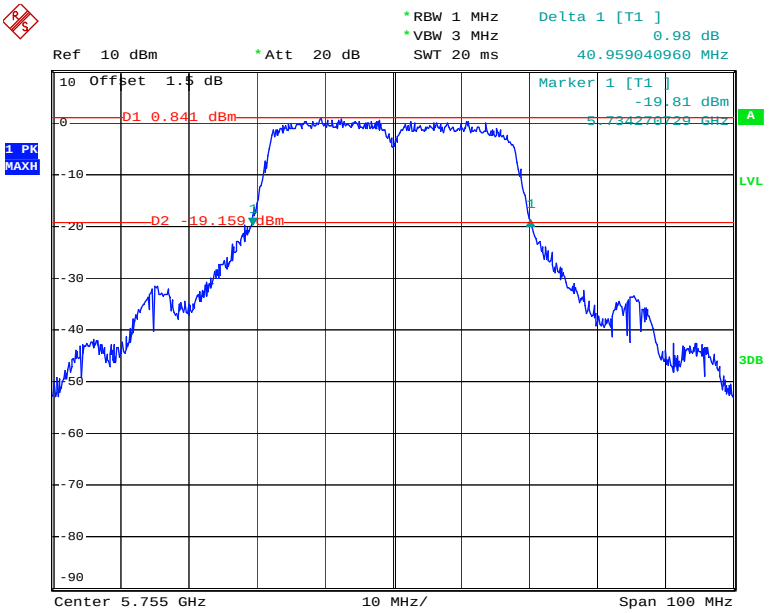
Date: 13.MAY.2014 16:52:49

Chain 1:802.11n ht40 RF Output Power, Low Channel



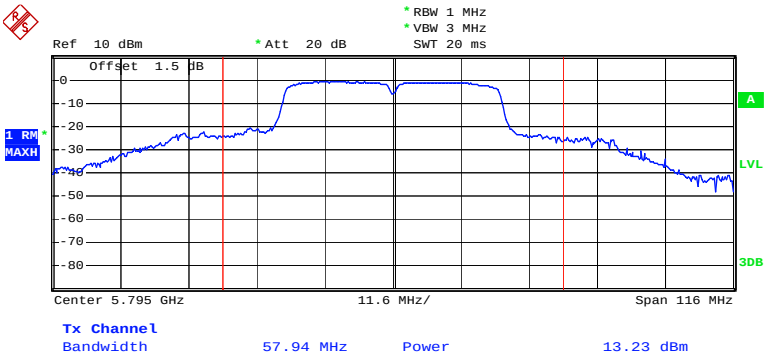
Date: 7.MAY.2014 10:29:37

Chain 1:802.11n ht40 OBW, Low Channel



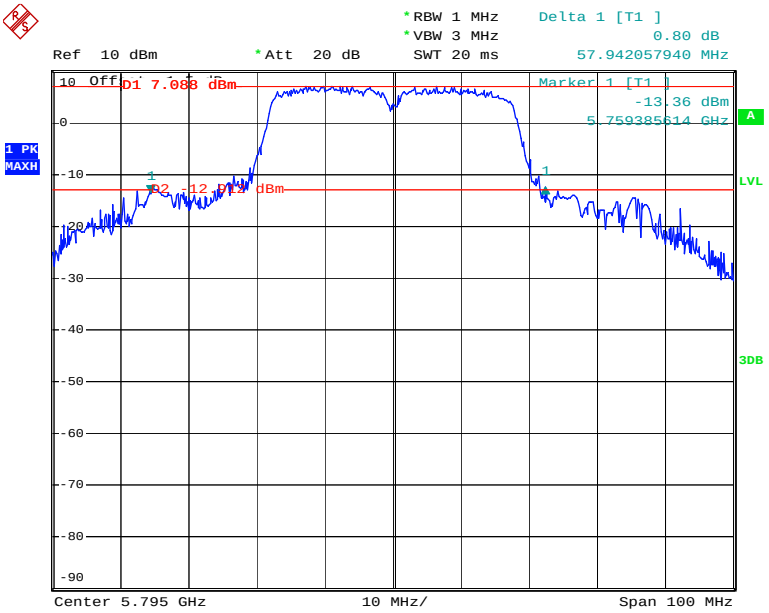
Date: 7.MAY.2014 10:28:13

Chain 1:802.11n ht40 RF Output Power, High Channel



Date: 13.MAY.2014 16:55:36

Chain 1:802.11n ht40 OBW, High Channel



Date: 13.MAY.2014 16:55:23

FCC §15.247(d) – 100 kHz BANDWIDTH OF FREQUENCY BAND EDGE

Applicable Standard

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2013-06-16	2014-06-15

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	24.2~25.7 °C
Relative Humidity:	64~68 %
ATM Pressure:	100.1~100.8 kPa

The testing was performed by Dean Liu from 2014-05-06 to 2014-05-13.

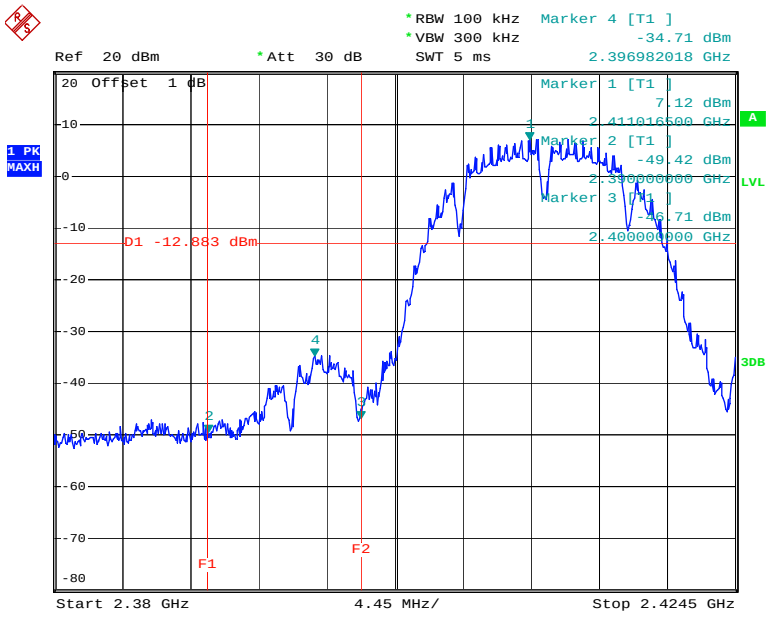
Test Result: *Compliance*

Test mode: Transmitting

Please refer to following plots.

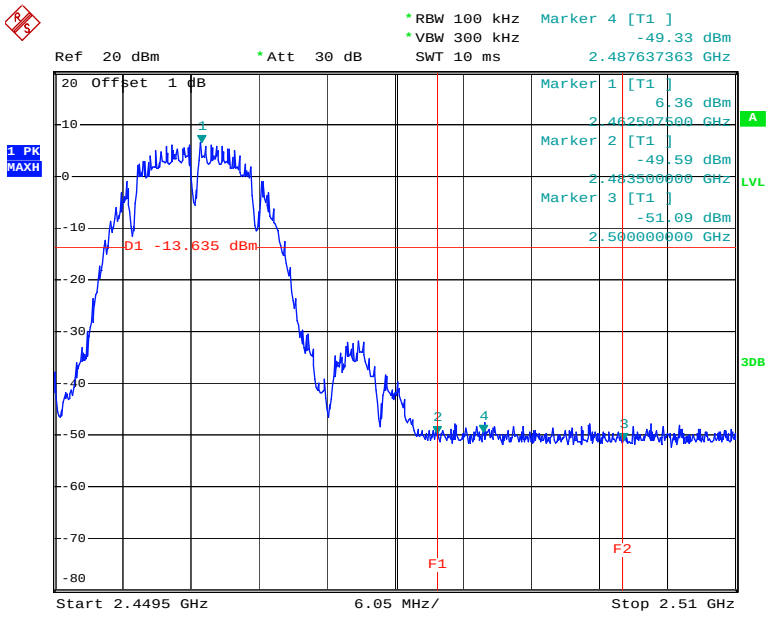
2.4GHz band:

Chain 0: 802.11b: Band Edge, Left Side



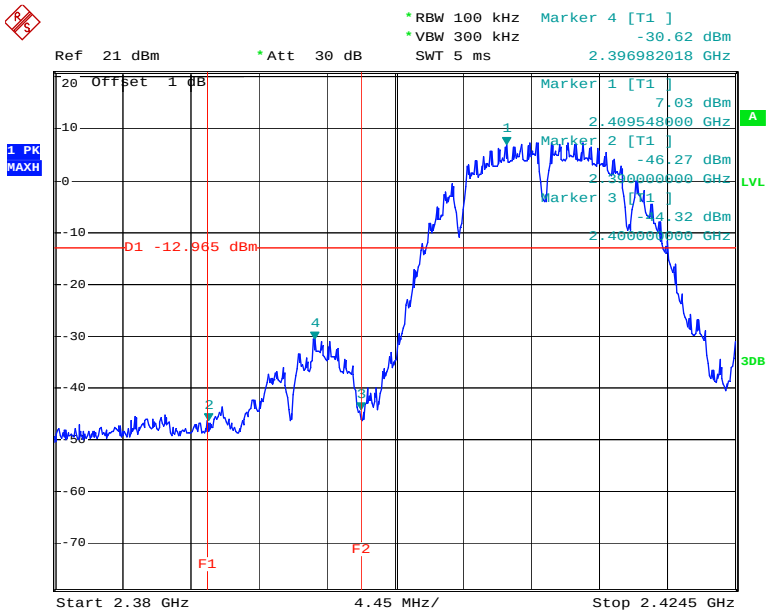
Date: 6.MAY.2014 10:41:38

Chain 0: 802.11b: Band Edge, Right Side



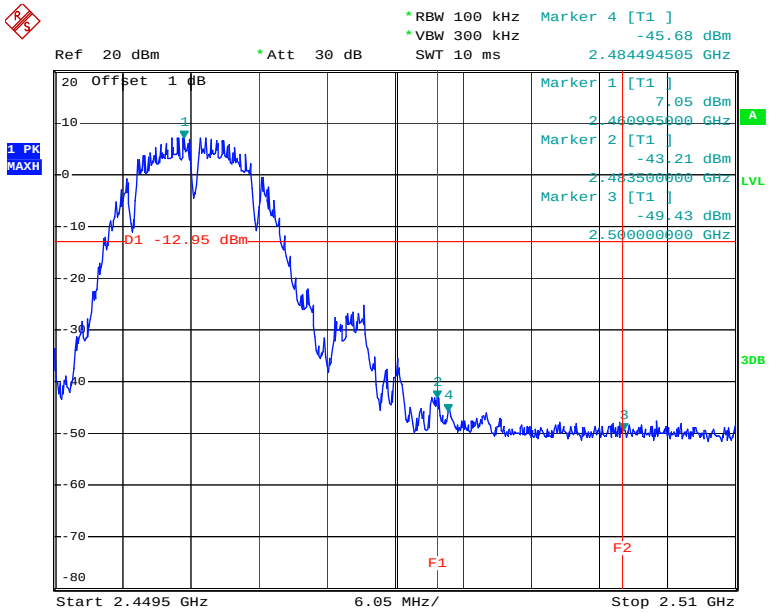
Date: 6.MAY.2014 10:44:41

Chain 1: 802.11b: Band Edge, Left Side



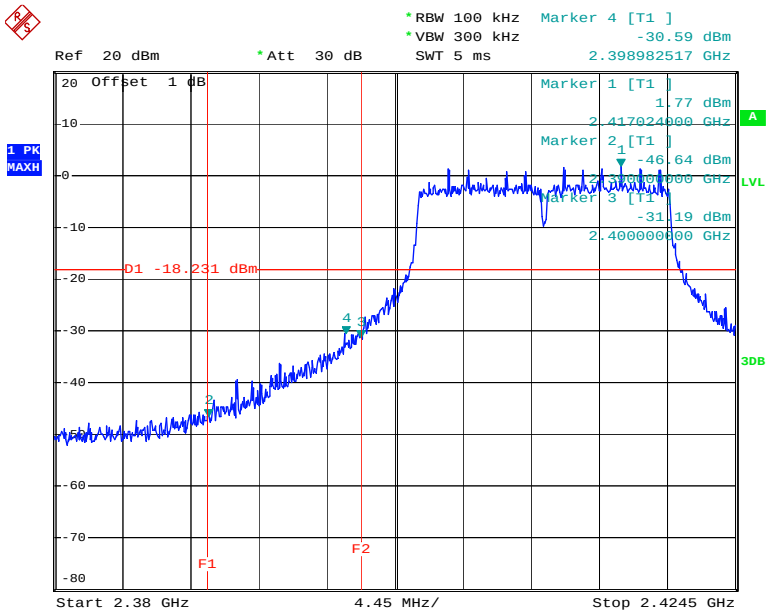
Date: 9.MAY.2014 15:29:00

Chain 1: 802.11b: Band Edge, Right Side



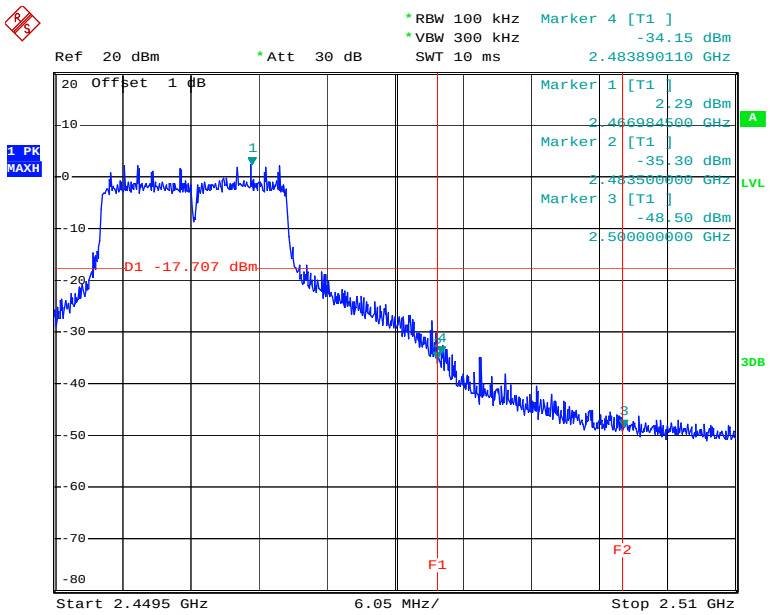
Date: 9.MAY.2014 15:44:44

Chain 0: 802.11g: Band Edge, Left Side



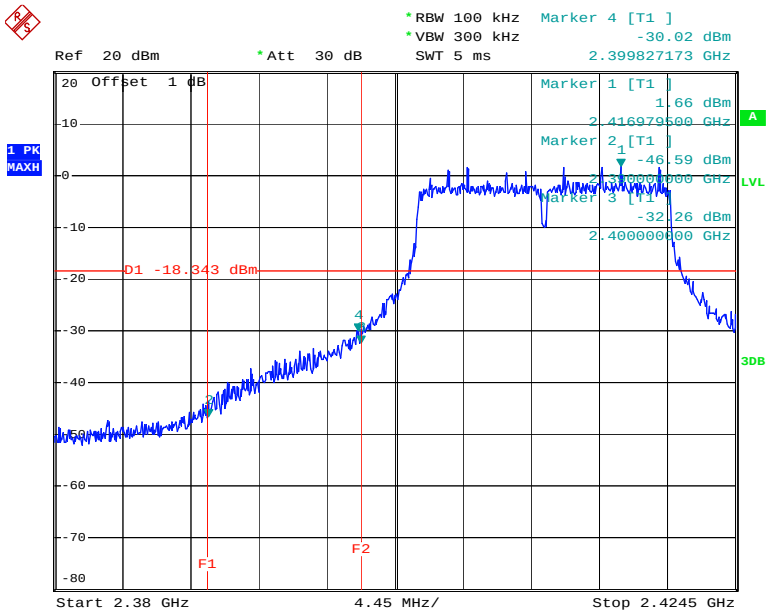
Date: 6.MAY.2014 10:51:36

Chain 0: 802.11g: Band Edge, Right Side



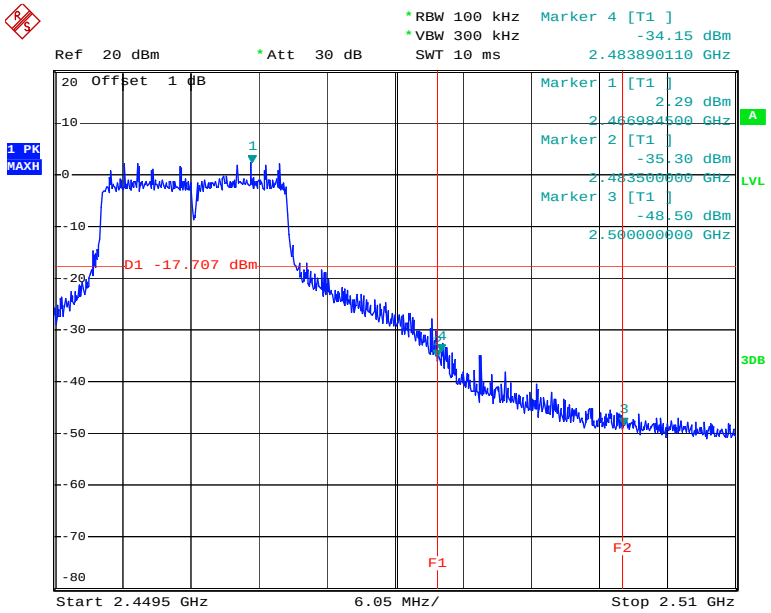
Date: 9.MAY.2014 16:00:44

Chain 1: 802.11g: Band Edge, Left Side



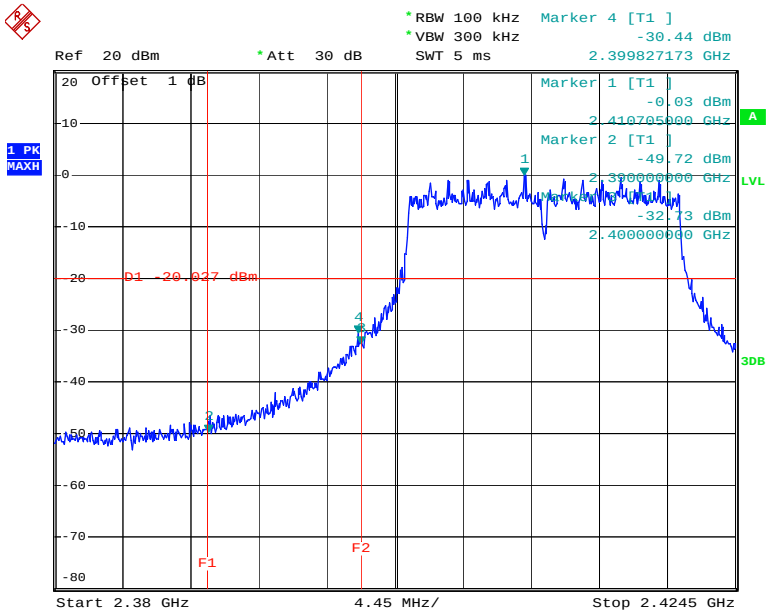
Date: 9.MAY.2014 15:50:43

Chain 1: 802.11g: Band Edge, Right Side



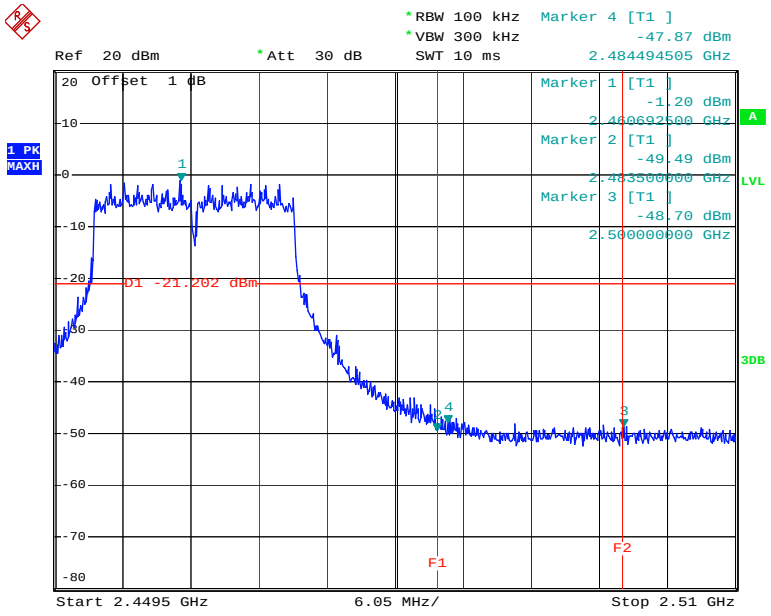
Date: 9.MAY.2014 16:00:44

Chain 0: 802.11n ht20 Band Edge, Left Side



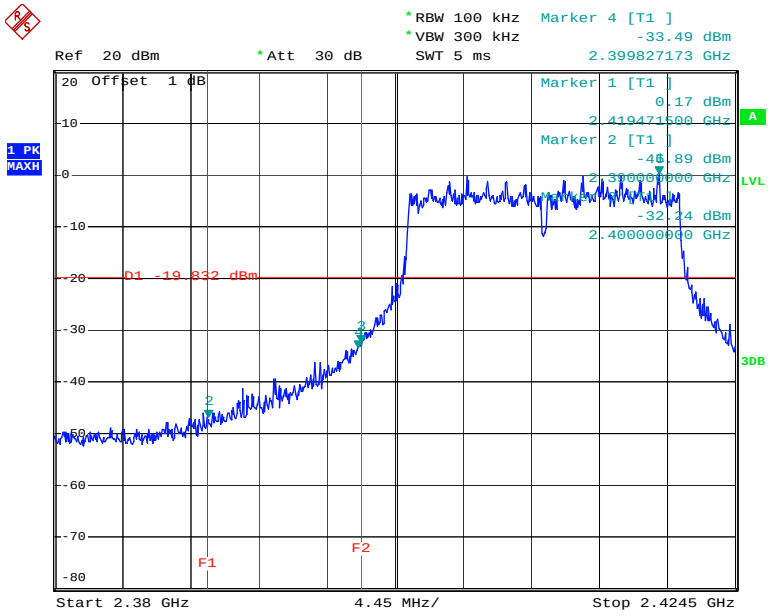
Date: 6.MAY.2014 10:59:47

Chain 0: 802.11n ht20 Band Edge, Right Side



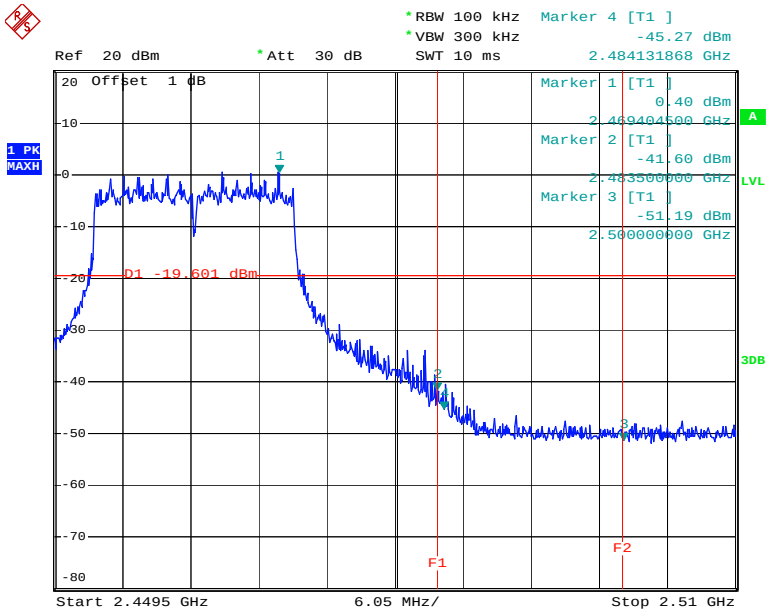
Date: 6.MAY.2014 11:11:55

Chain 1: 802.11n ht20 Band Edge, Left Side



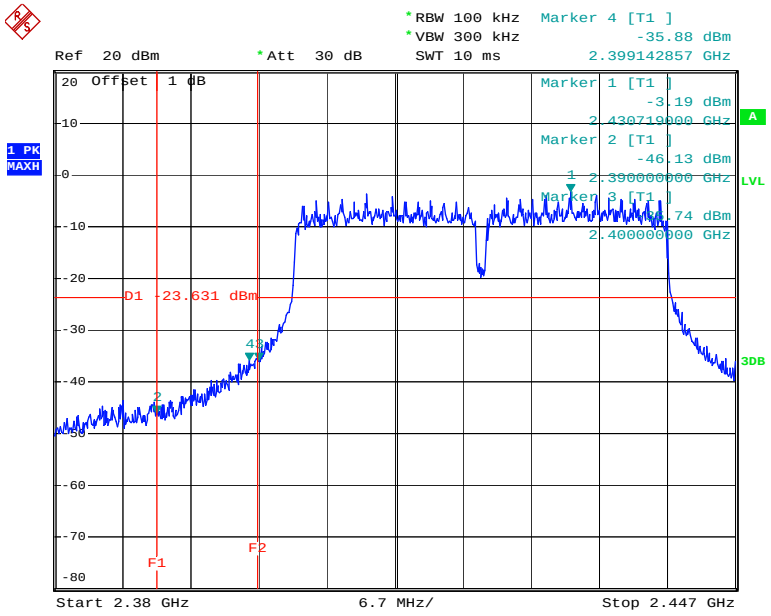
Date: 6.MAY.2014 11:02:13

Chain 1: 802.11n ht20 Band Edge, Right Side



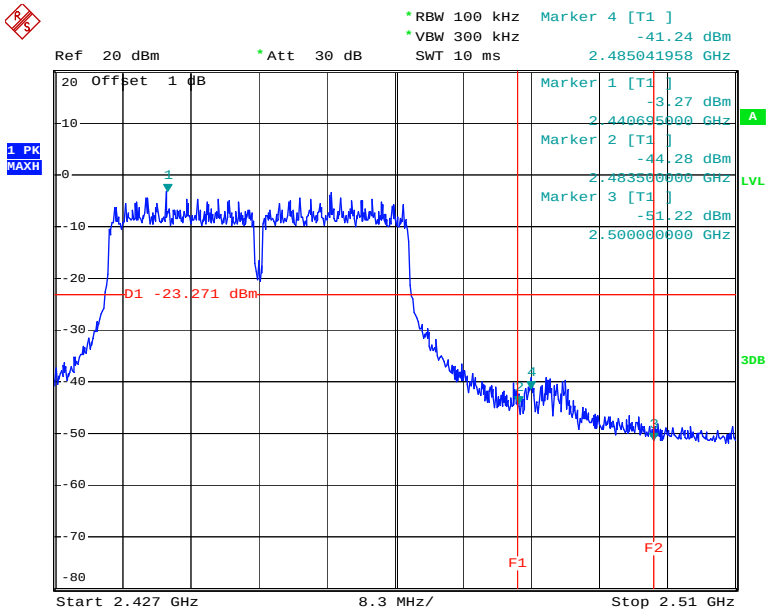
Date: 6.MAY.2014 11:30:42

Chain 0: 802.11n ht40 Band Edge, Left Side



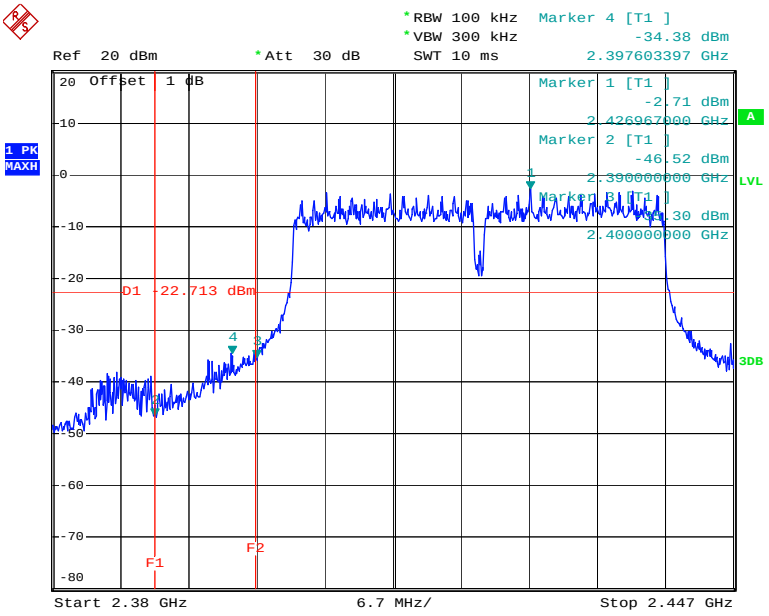
Date: 6.MAY.2014 11:14:59

Chain 0: 802.11n ht40 Band Edge, Right Side



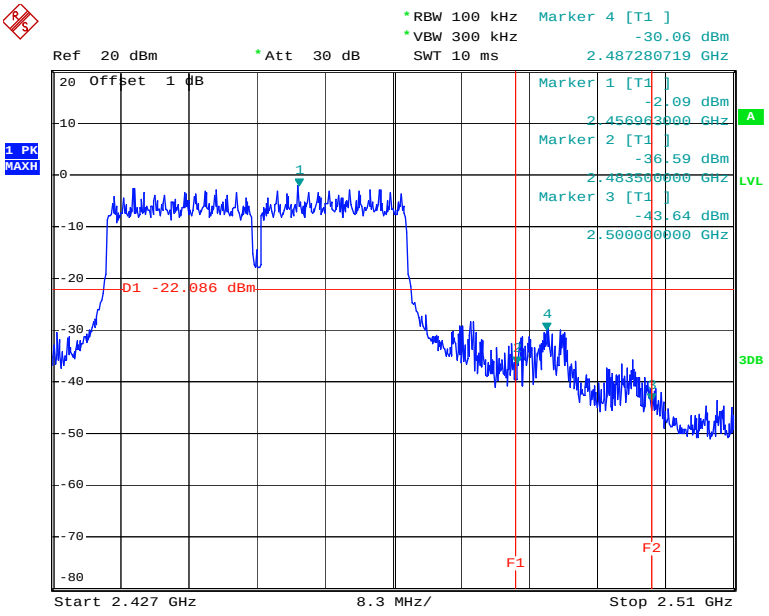
Date: 6.MAY.2014 11:26:33

Chain 1: 802.11n ht40 Band Edge, Left Side



Date: 6.MAY.2014 11:17:03

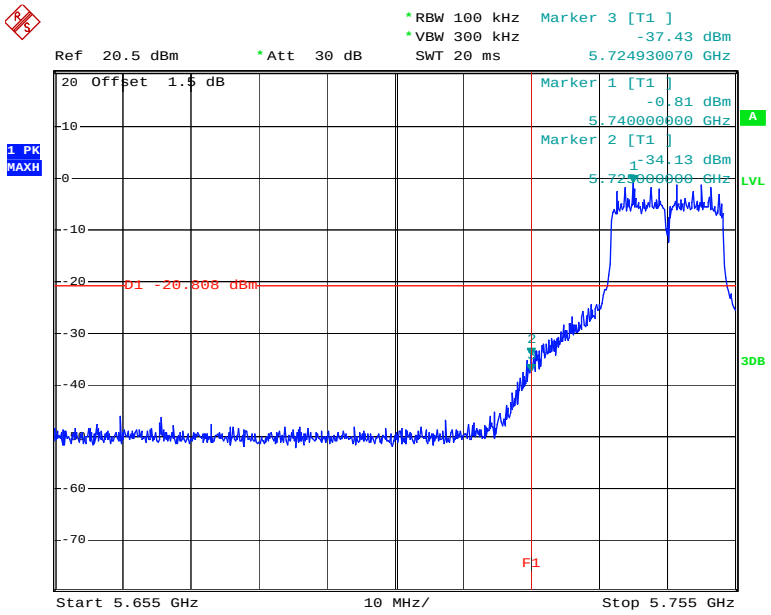
Chain 1: 802.11n ht40 Band Edge, Right Side



Date: 6.MAY.2014 11:28:29

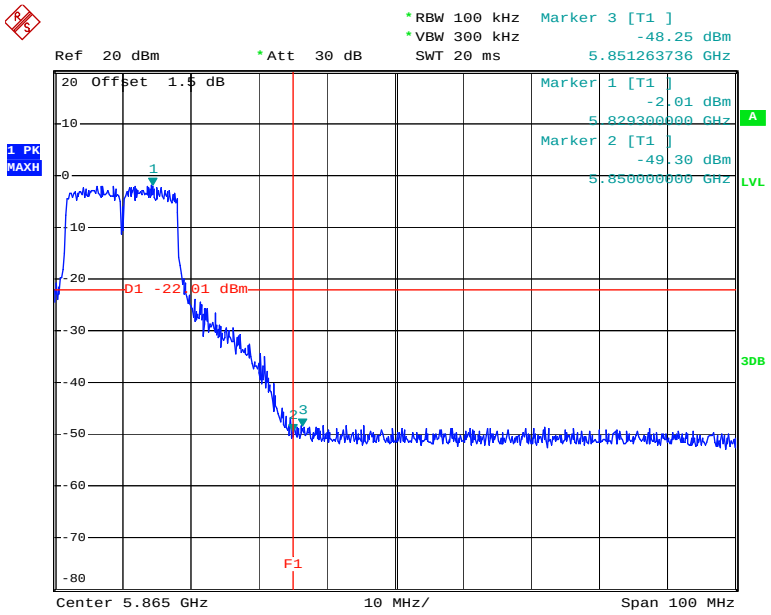
5725-5850MHz band:

Chain 0: 802.11a Band Edge, Left Side



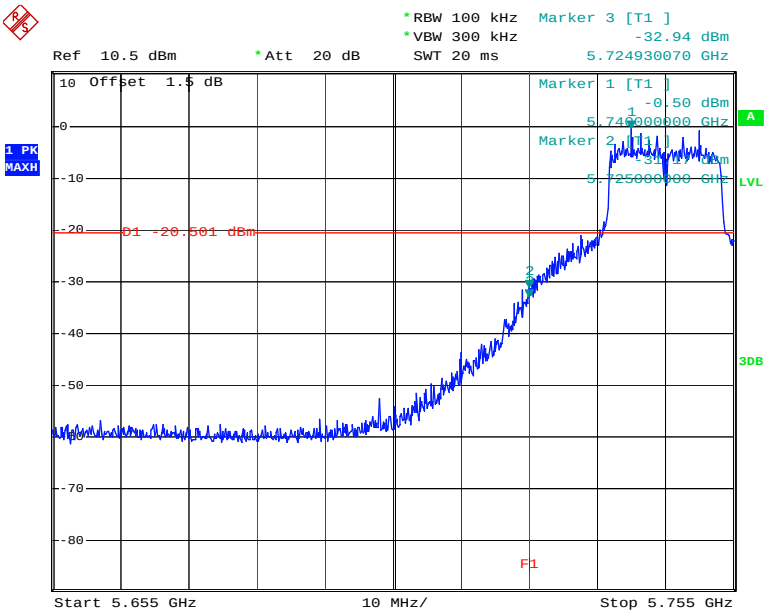
Date: 7.MAY.2014 09:24:49

Chain 0: 802.11a Band Edge, Right Side



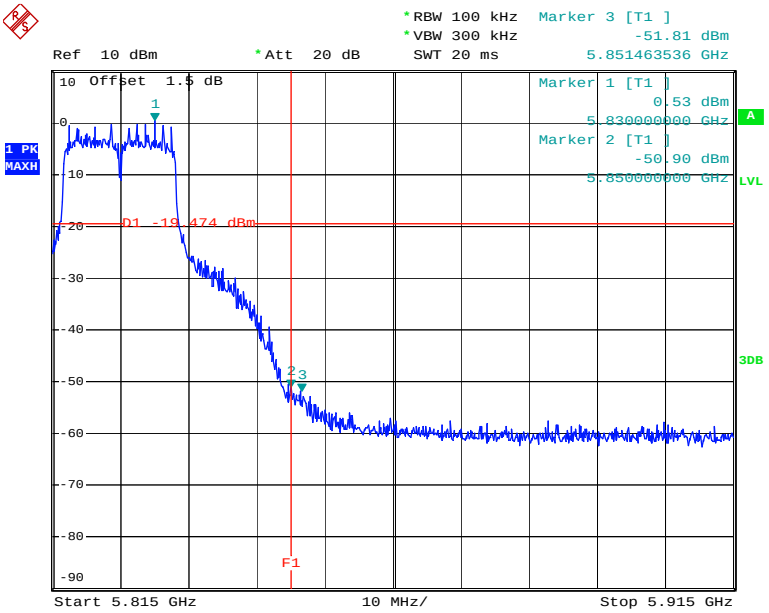
Date: 7.MAY.2014 09:40:26

Chain 1: 802.11a Band Edge, Left Side



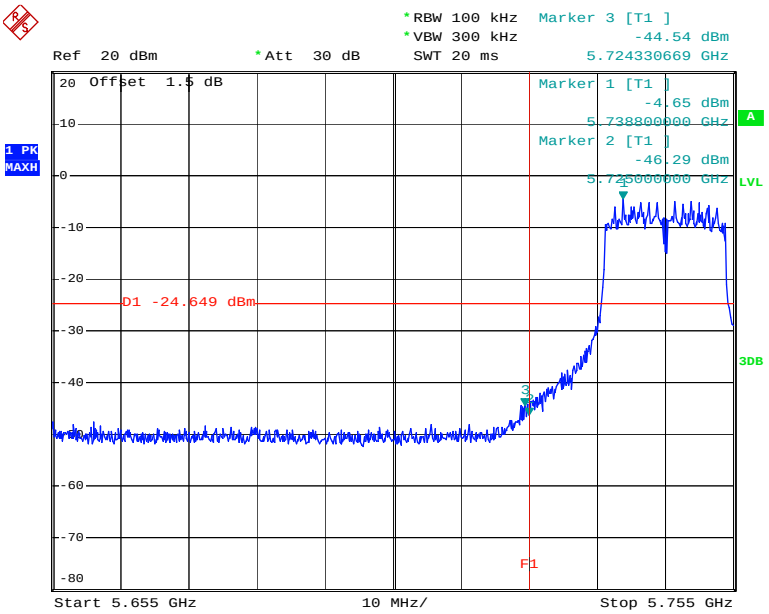
Date: 9.MAY.2014 16:20:10

Chain 1: 802.11a Band Edge, Right Side



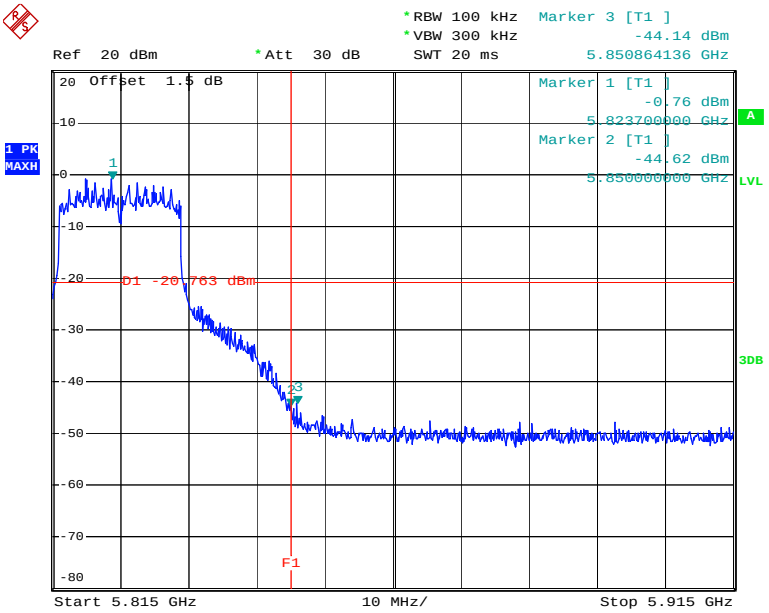
Date: 9.MAY.2014 16:26:16

Chain 0: 802.11n ht20 Band Edge, Left Side



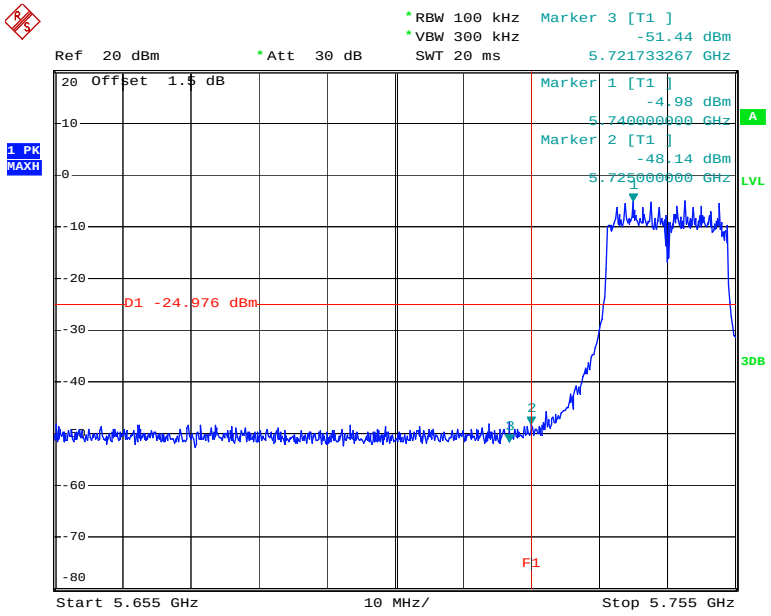
Date: 7.MAY.2014 09:46:45

Chain 0: 802.11n ht20 Band Edge, Right Side



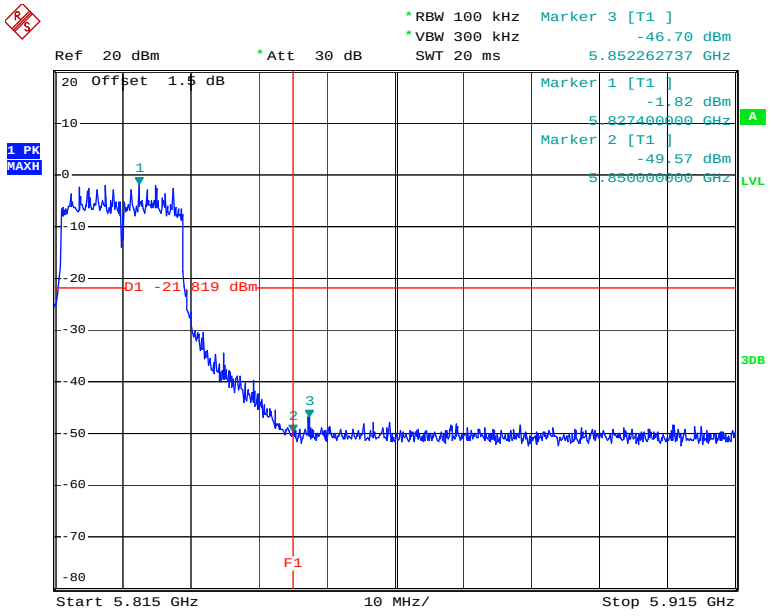
Date: 7.MAY.2014 10:16:55

Chain 1: 802.11n ht20 Band Edge, Left Side



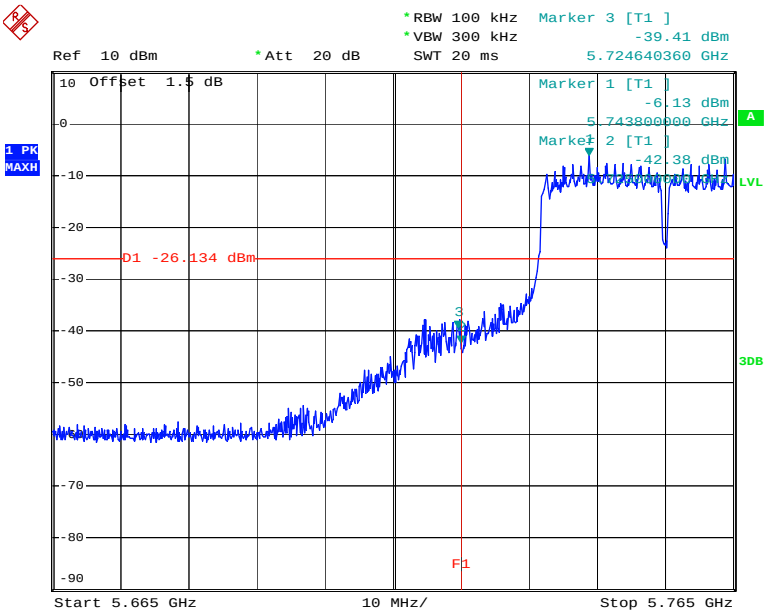
Date: 7.MAY.2014 09:53:41

Chain 1: 802.11n ht20 Band Edge, Right Side



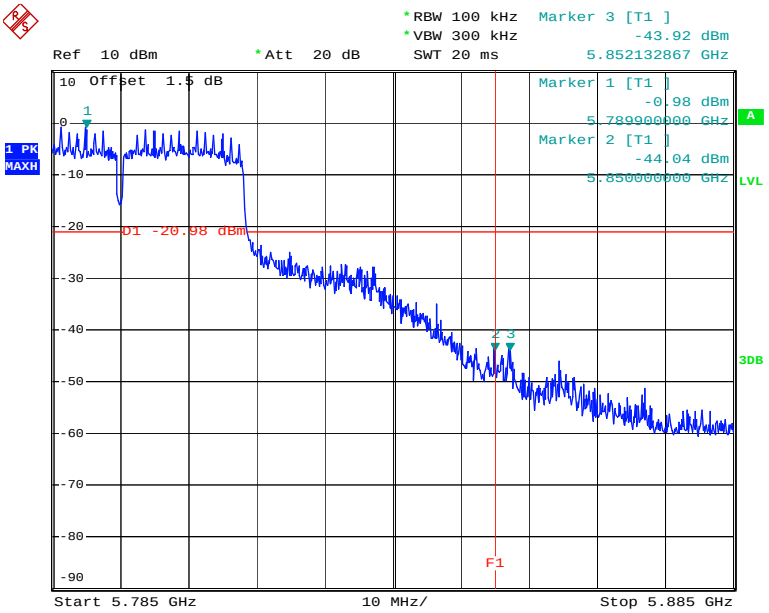
Date: 7.MAY.2014 10:20:52

Chain 0: 802.11n ht40 Band Edge, Left Side



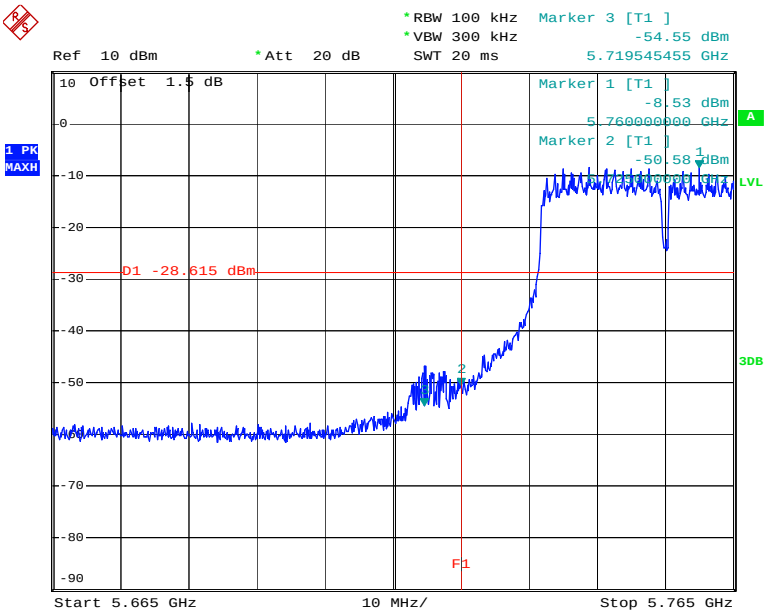
Date: 7.MAY.2014 10:27:29

Chain 0: 802.11n ht40 Band Edge, Right Side



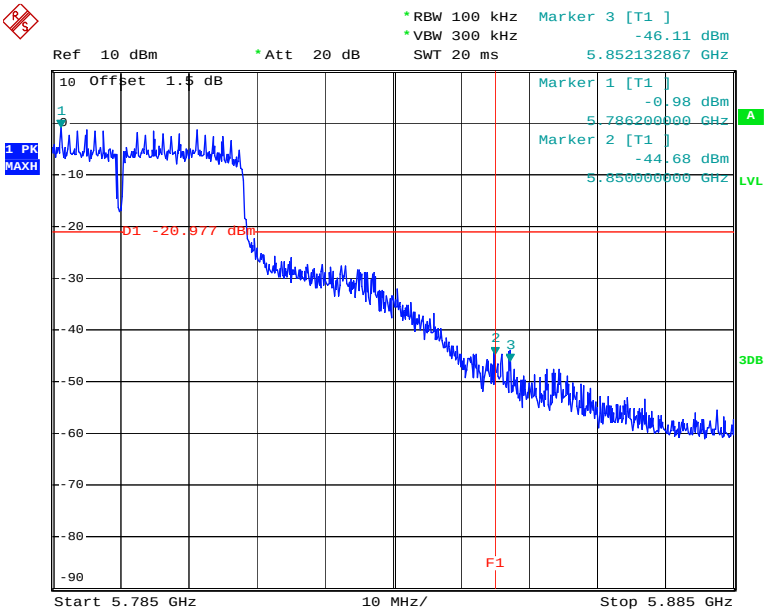
Date: 13.MAY.2014 16:54:30

Chain 1: 802.11n ht40 Band Edge, Left Side



Date: 7.MAY.2014 10:24:38

Chain 1: 802.11n ht40 Band Edge, Right Side



Date: 13.MAY.2014 16:57:07

FCC §15.247(e) - POWER SPECTRAL DENSITY

Applicable Standard

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

Test Procedure

According to KDB 558074 D01 DTS Meas Guidance v03r01clause10.2:

a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span to 1.5 times the DTS bandwidth.
c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ 3×RBW.
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSP 38	100478	2013-06-16	2014-06-15

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data

Environmental Conditions

Temperature:	24.2~25.7 °C
Relative Humidity:	64~68 %
ATM Pressure:	100.1~100.8 kPa

The testing was performed by Dean Liu from 2014-05-06 to 2014-05-13.

Test Mode: Transmitting

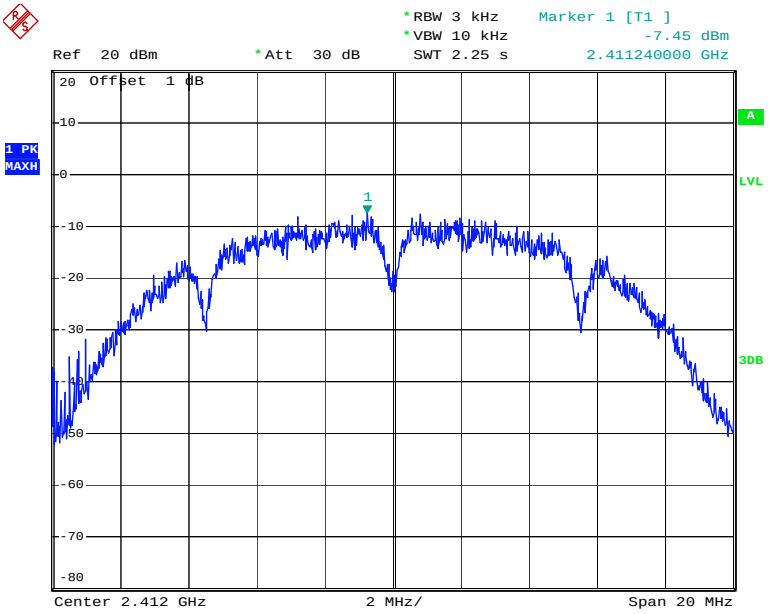
Test Result: Pass

Test mode	Channel	PSD (dBm/3kHz)			Limit	Result
		Chain0	Chain1	Chain0+1	(dBm/3kHz)	
2.4GHz band-802.11b	Low	-7.45	-7.87	/	≤8	PASS
	Middle	-6.28	-5.99	/	≤8	PASS
	High	-7.33	-8.19	/	≤8	PASS
2.4GHz band-802.11g	Low	-12.32	-13.02	/	≤8	PASS
	Middle	-7.43	-7.61	/	≤8	PASS
	High	-13.25	-11.93	/	≤8	PASS
2.4GHz band-802.11n ht20	Low	-14.28	-15.22	-11.71	≤8	PASS
	Middle	-7.92	-7.53	-4.71	≤8	PASS
	High	-16.08	-14.98	-12.48	≤8	PASS
2.4GHz band-802.11n ht40	Low	-19.35	-17.86	-15.53	≤8	PASS
	Middle	-11.36	-10.89	-8.11	≤8	PASS
	High	-18.96	-16.27	-14.40	≤8	PASS
5725-5850MHz band-802.11a	Low	-15.61	-15.37	/	≤8	PASS
	Middle	-9.70	-8.48	/	≤8	PASS
	High	-11.62	-14.92	/	≤8	PASS
5725-5850MHz band-802.11n ht20	Low	-19.19	-20.14	-16.63	≤8	PASS
	Middle	-9.26	-8.72	-5.97	≤8	PASS
	High	-15.81	-16.71	-13.23	≤8	PASS
5725-5850MHz band-802.11n ht40	Low	-22.04	-22.32	-19.17	≤8	PASS
	High	-15.67	-16.24	-12.94	≤8	PASS

Please refer to the following plots

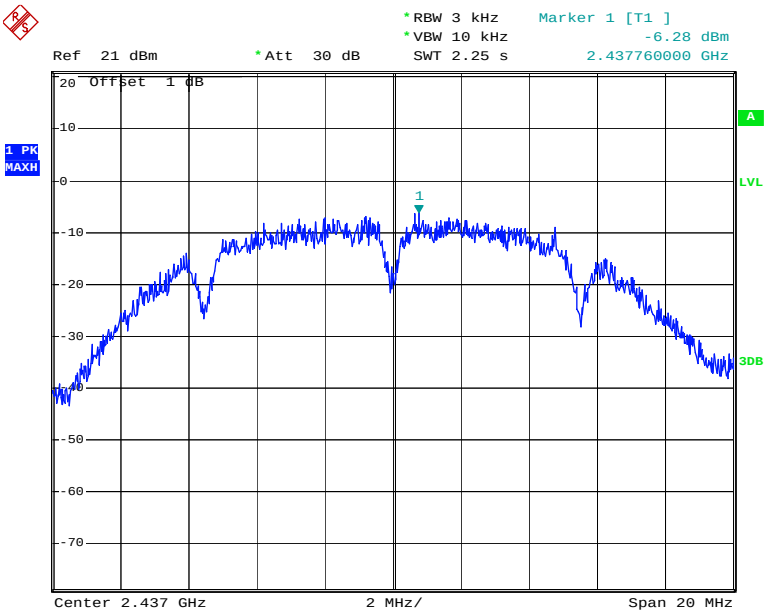
2.4GHz band:

Chain 0: Power Spectral Density, 802.11b Low Channel



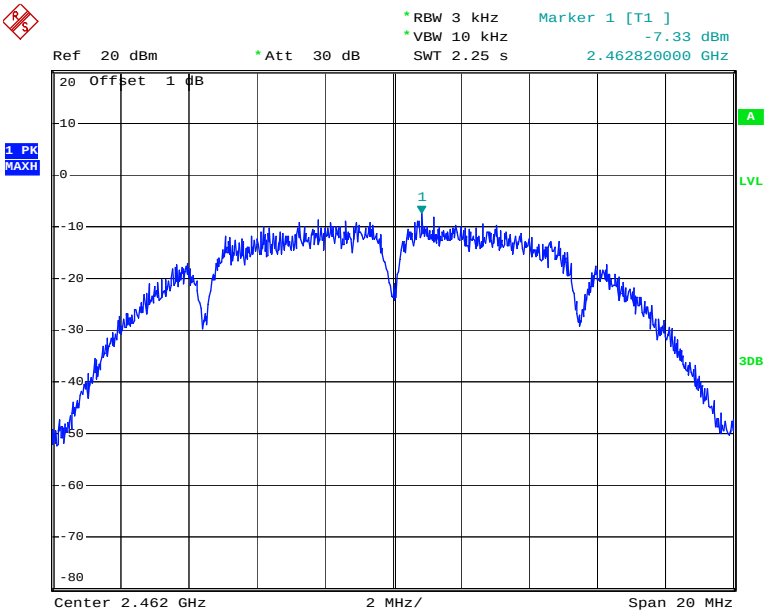
Date: 6.MAY.2014 10:41:13

Chain 0: Power Spectral Density, 802.11b Middle Channel



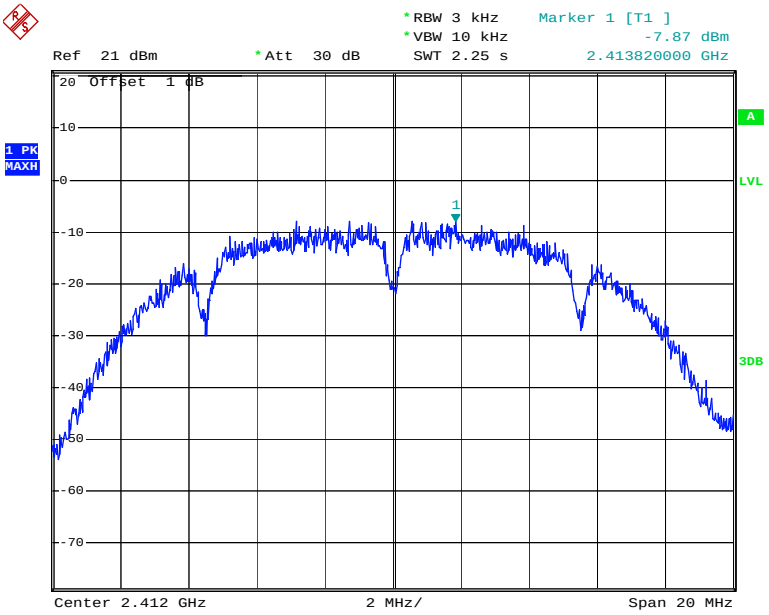
Date: 12.MAY.2014 18:04:08

Chain 0: Power Spectral Density, 802.11b High Channel



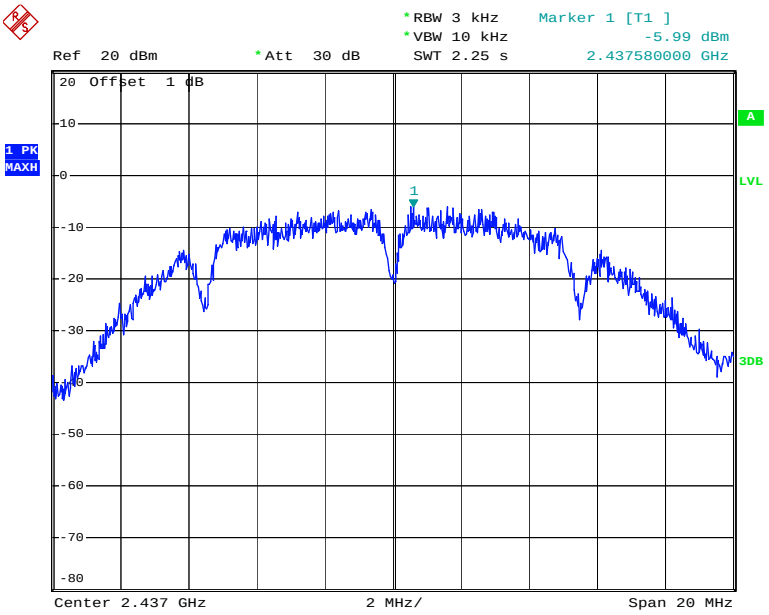
Date: 6.MAY.2014 10:44:16

Chain 1: Power Spectral Density, 802.11b Low Channel



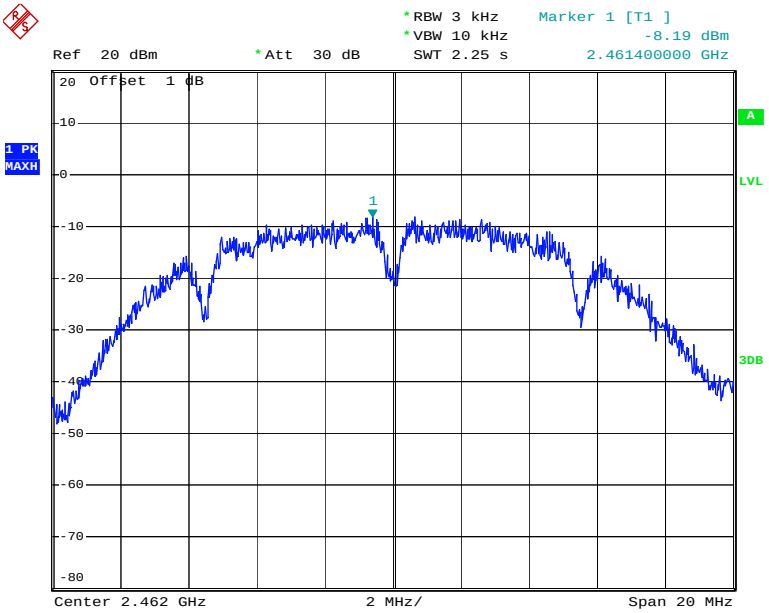
Date: 9.MAY.2014 15:26:37

Chain 1: Power Spectral Density, 802.11b Middle Channel



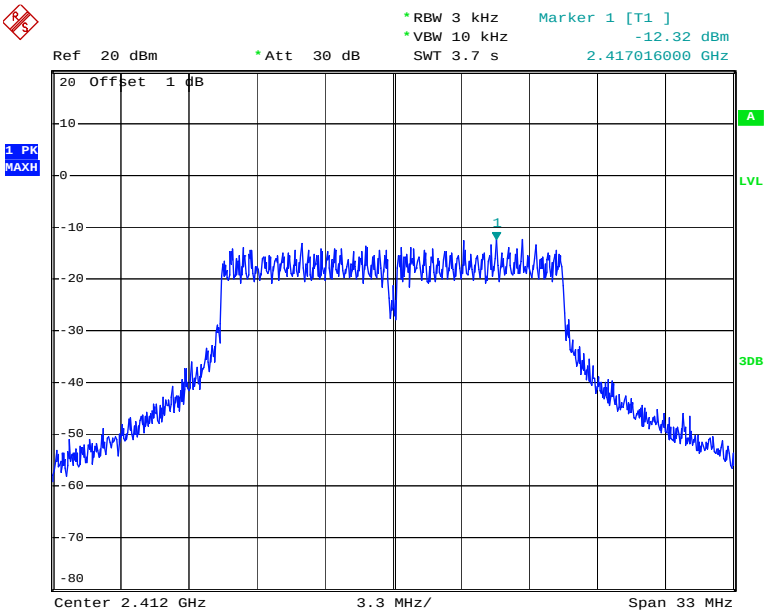
Date: 12.MAY.2014 18:05:21

Chain 1: Power Spectral Density, 802.11b High Channel



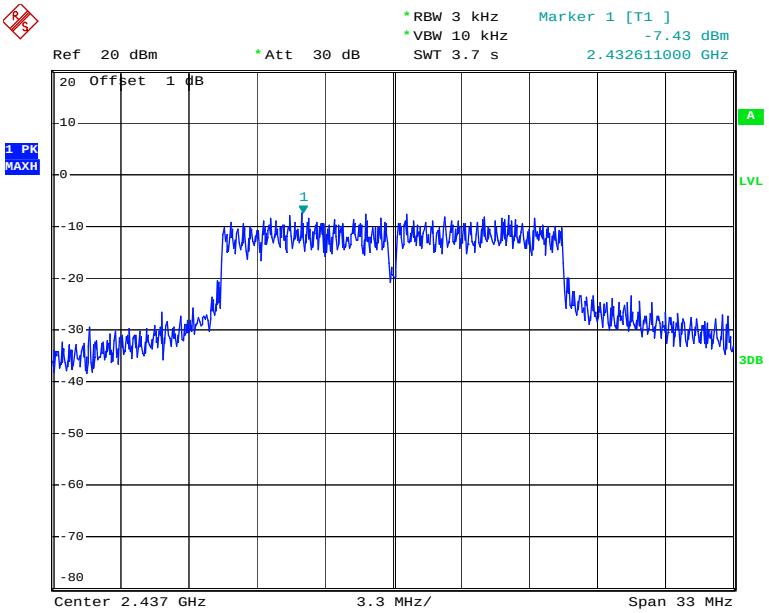
Date: 9.MAY.2014 15:44:09

Chain 0: Power Spectral Density, 802.11g Low Channel



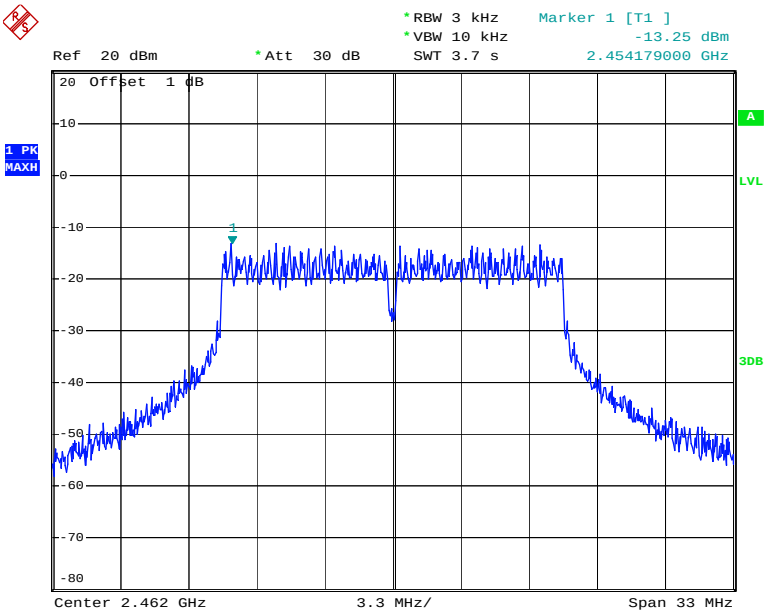
Date: 6.MAY.2014 10:51:05

Chain 0: Power Spectral Density, 802.11g Middle Channel



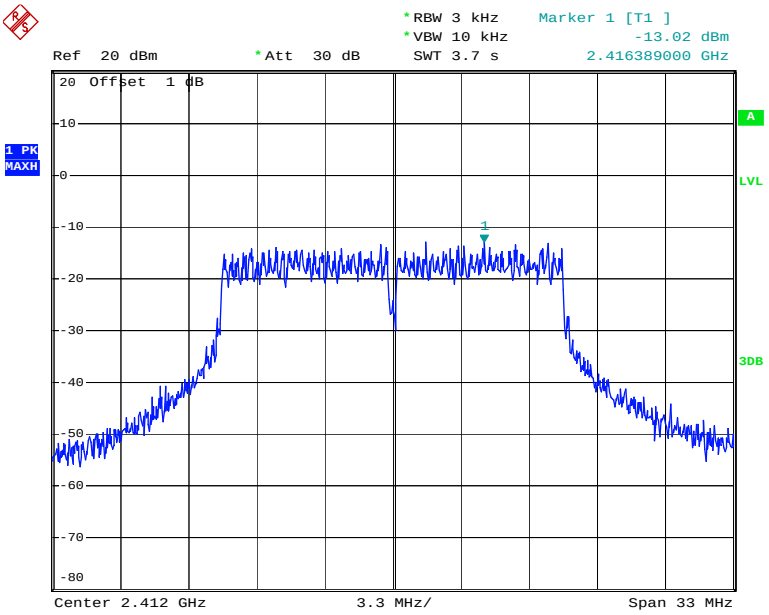
Date: 12.MAY.2014 18:07:42

Chain 0: Power Spectral Density, 802.11g High Channel



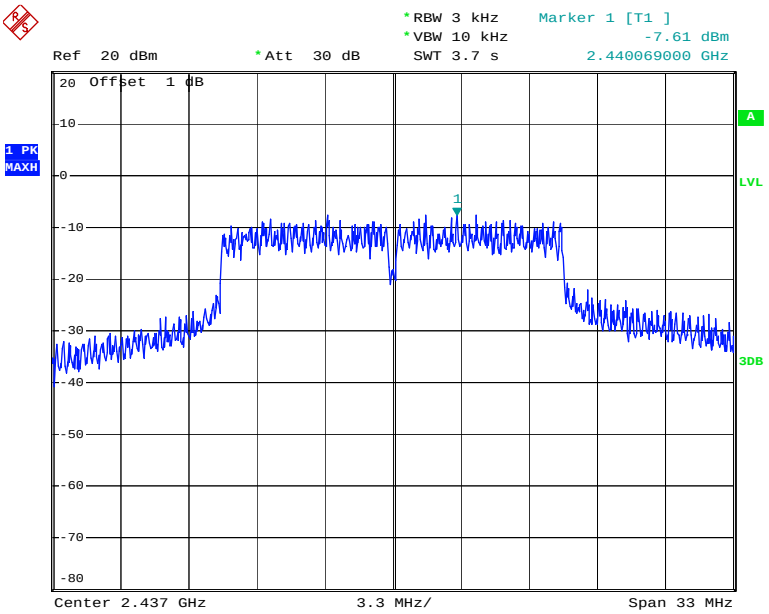
Date: 6.MAY.2014 10:54:25

Chain 1: Power Spectral Density, 802.11g Low Channel



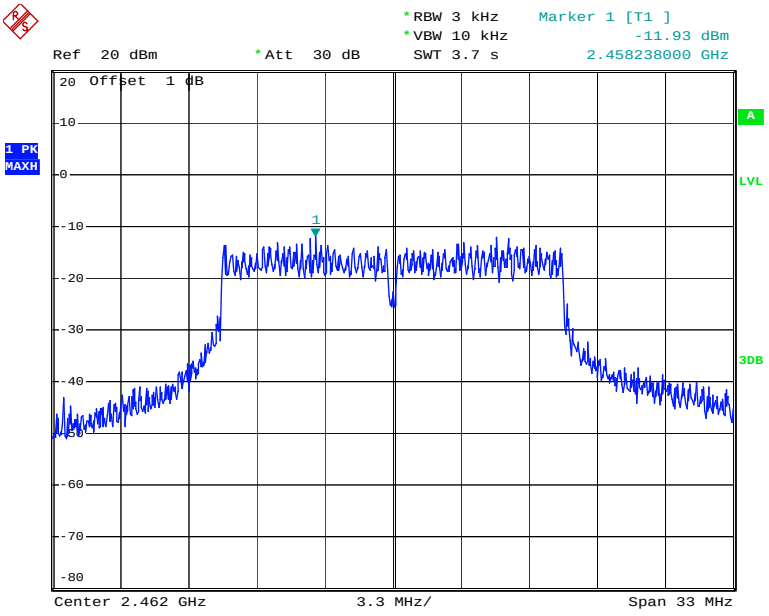
Date: 9.MAY.2014 15:50:18

Chain 1: Power Spectral Density, 802.11g Middle Channel



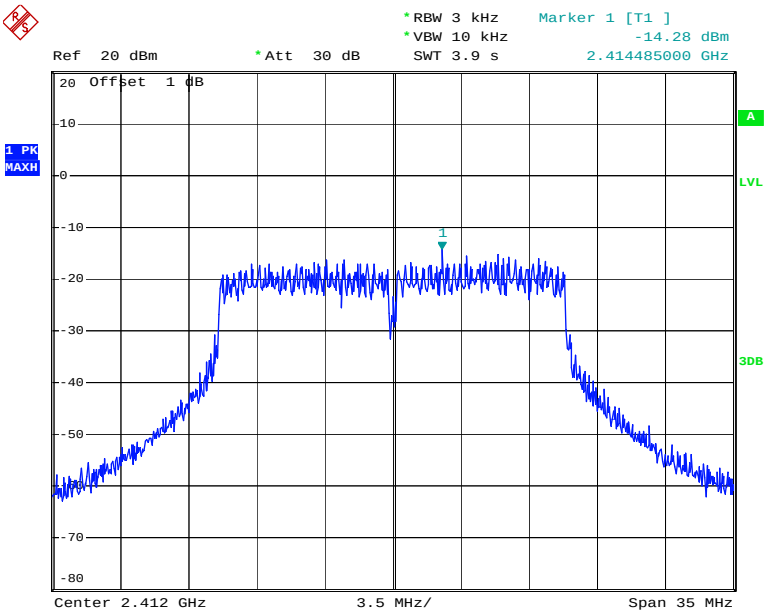
Date: 12.MAY.2014 18:09:55

Chain 1: Power Spectral Density, 802.11g High Channel



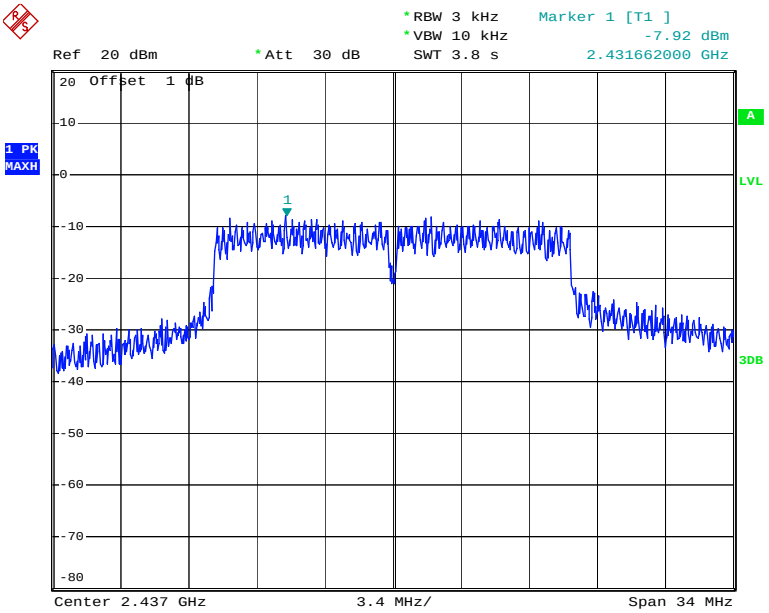
Date: 9.MAY.2014 16:00:19

Chain 0: Power Spectral Density, 802.11n ht20 Low Channel



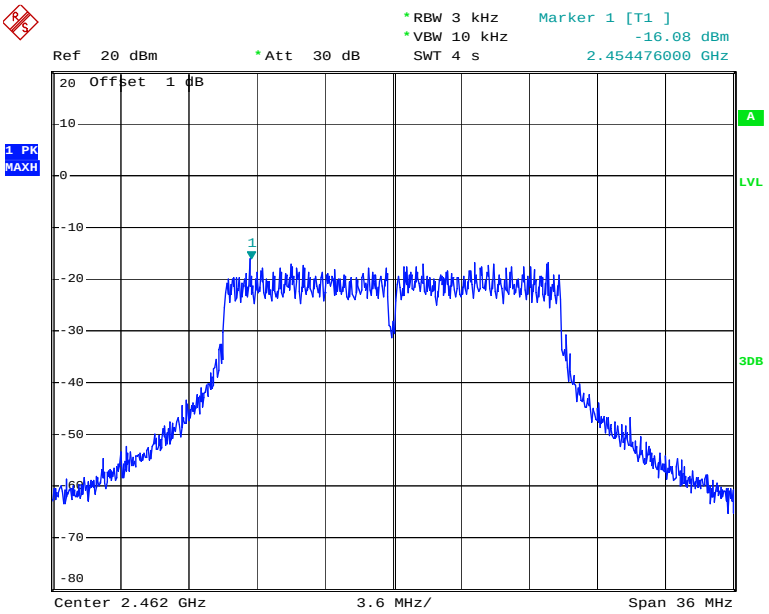
Date: 6.MAY.2014 10:59:22

Chain 0: Power Spectral Density, 802.11n ht20 Middle Channel



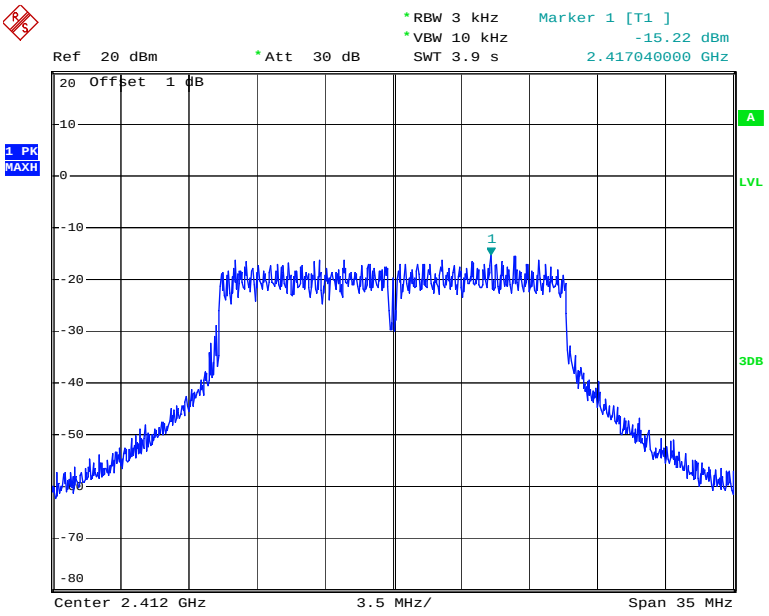
Date: 12.MAY.2014 18:11:52

Chain 0: Power Spectral Density, 802.11n ht20 High Channel



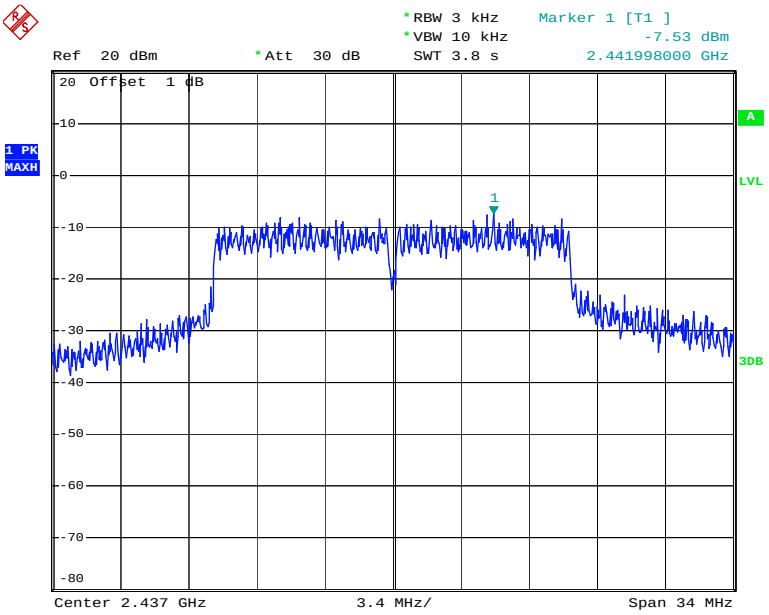
Date: 6.MAY.2014 11:10:39

Chain 1: Power Spectral Density, 802.11n ht20 Low Channel



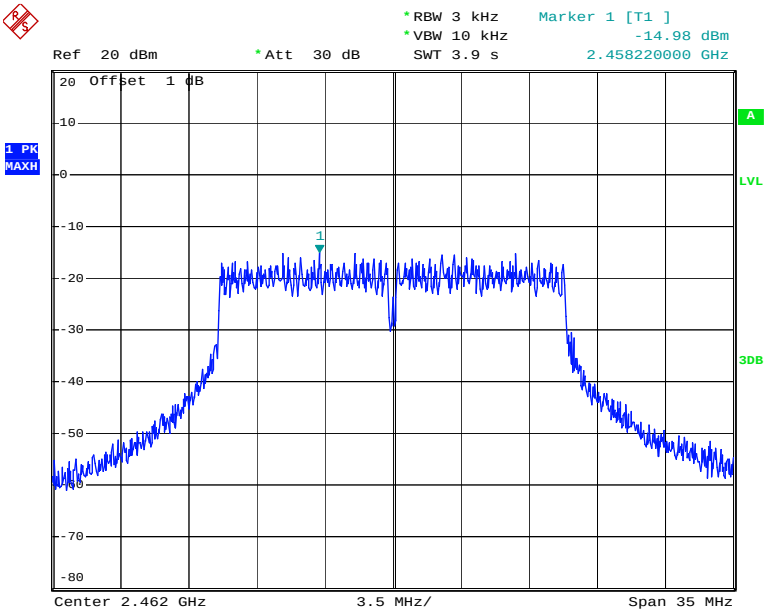
Date: 6.MAY.2014 11:01:48

Chain 1: Power Spectral Density, 802.11n ht20 Middle Channel



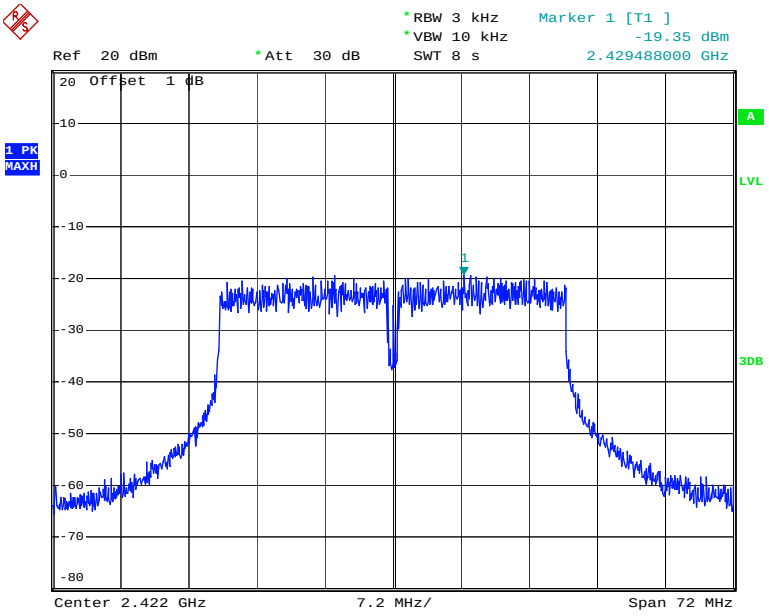
Date: 12.MAY.2014 18:13:06

Chain 1: Power Spectral Density, 802.11n ht20 High Channel



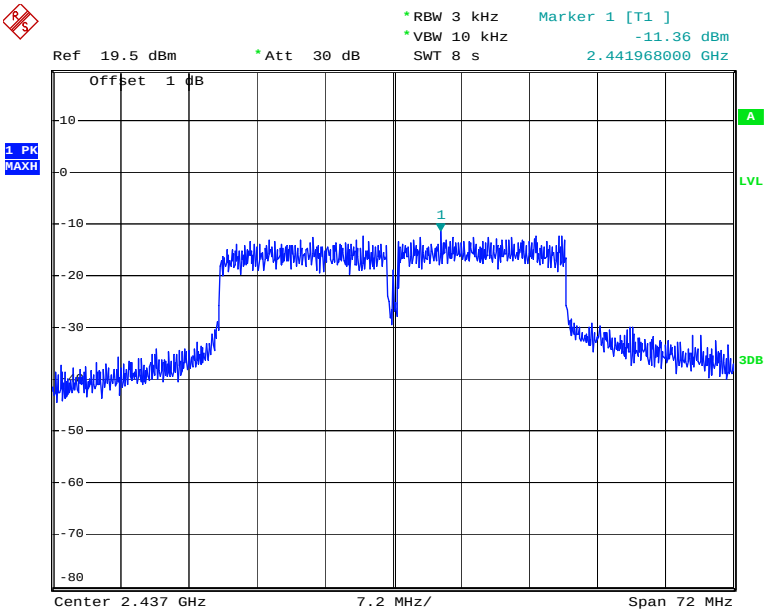
Date: 6.MAY.2014 11:30:17

Chain 0: Power Spectral Density, 802.11n ht40 Low Channel



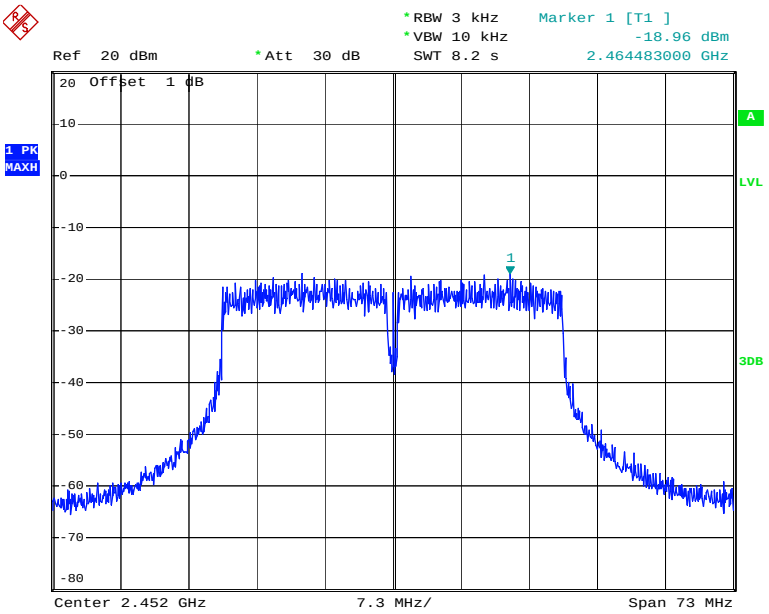
Date: 6.MAY.2014 11:14:01

Chain 0: Power Spectral Density, 802.11n ht40 Middle Channel



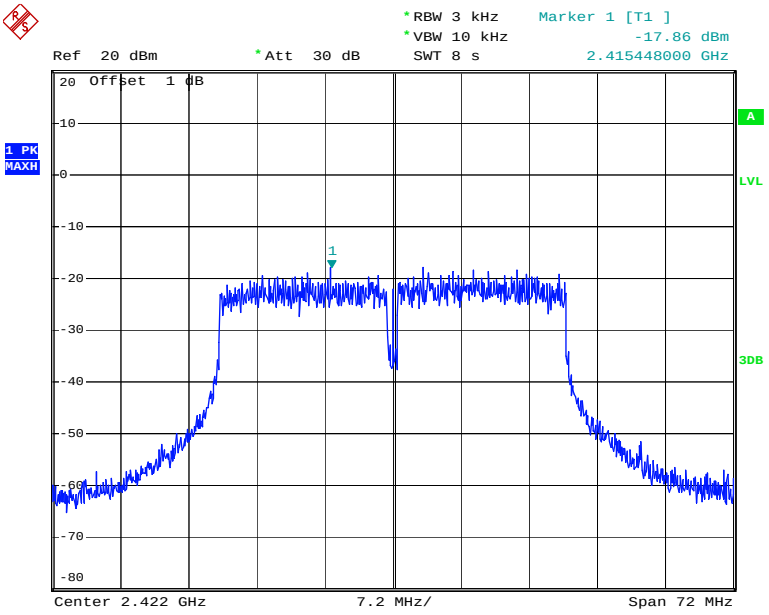
Date: 13.MAY.2014 11:19:30

Chain 0: Power Spectral Density, 802.11n ht40 High Channel



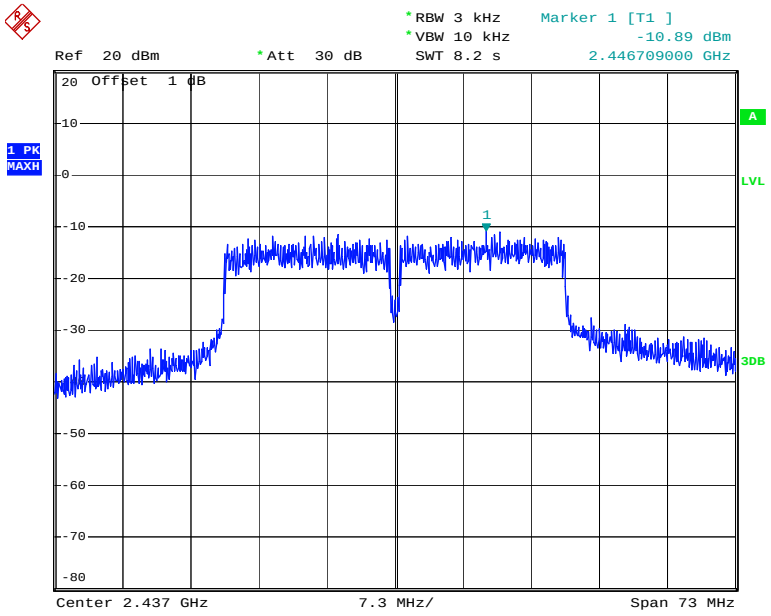
Date: 6.MAY.2014 11:26:08

Chain 1: Power Spectral Density, 802.11n ht40 Low Channel



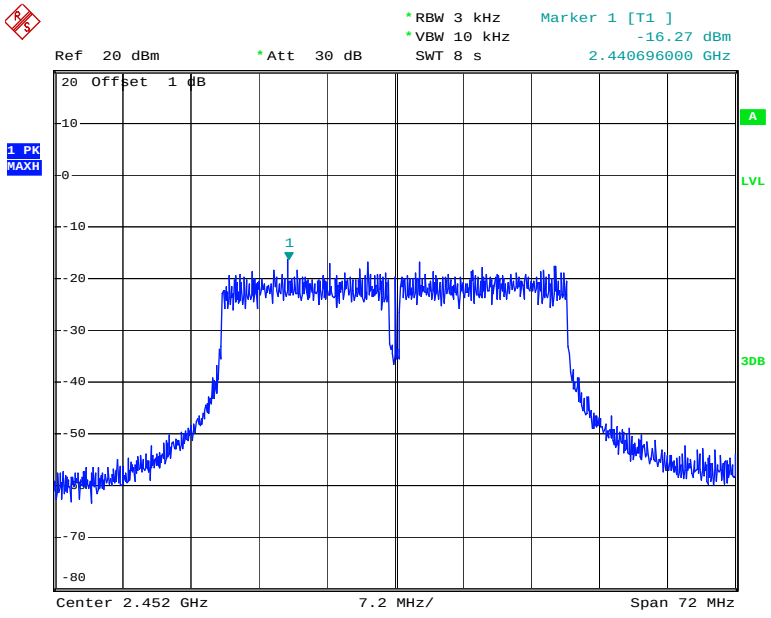
Date: 6.MAY.2014 11:16:38

Chain 1: Power Spectral Density, 802.11n ht40 Middle Channel



Date: 12.MAY.2014 18:18:42

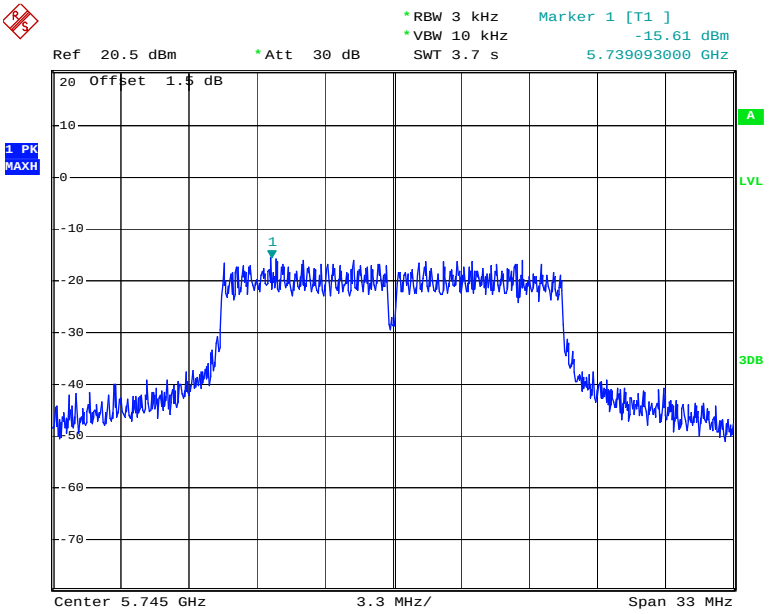
Chain 1: Power Spectral Density, 802.11n ht40 High Channel



Date: 6.MAY.2014 11:28:04

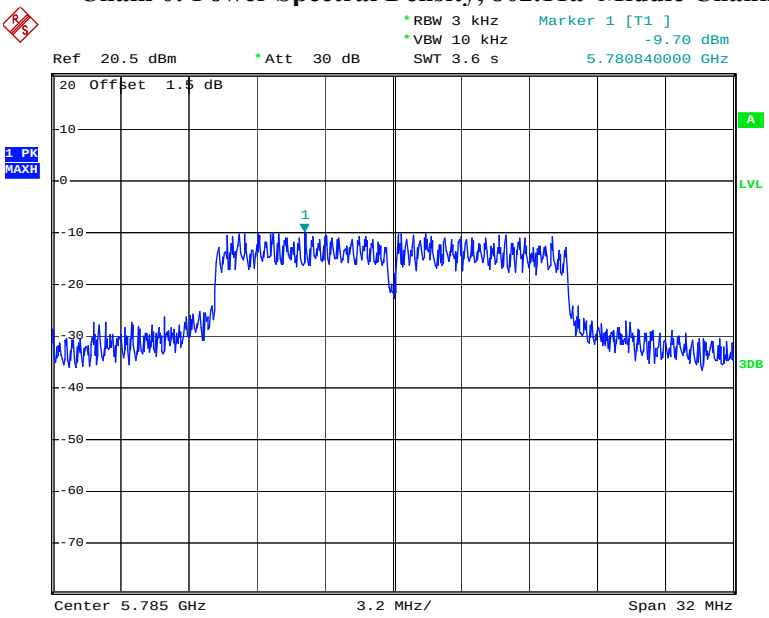
5725-5850MHz band:

Chain 0: Power Spectral Density, 802.11a Low Channel



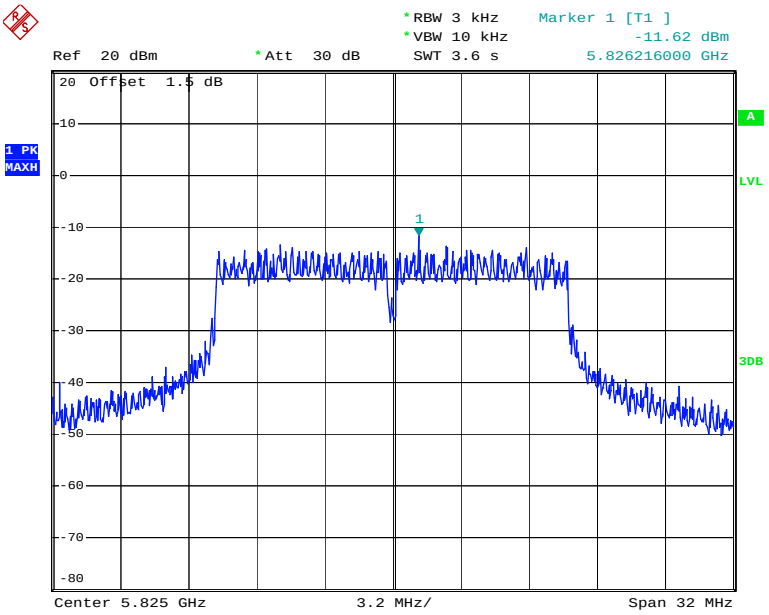
Date: 7.MAY.2014 09:23:06

Chain 0: Power Spectral Density, 802.11a Middle Channel



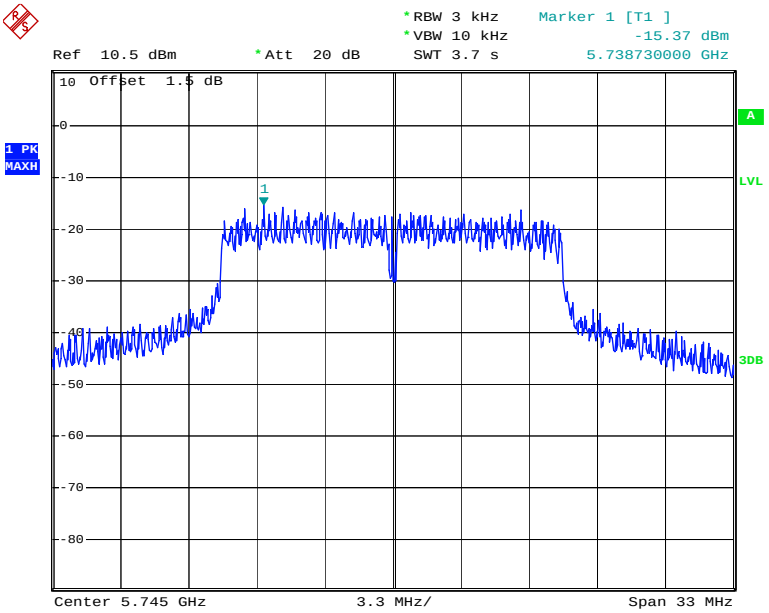
Date: 12.MAY.2014 18:21:38

Chain 0: Power Spectral Density, 802.11a High Channel



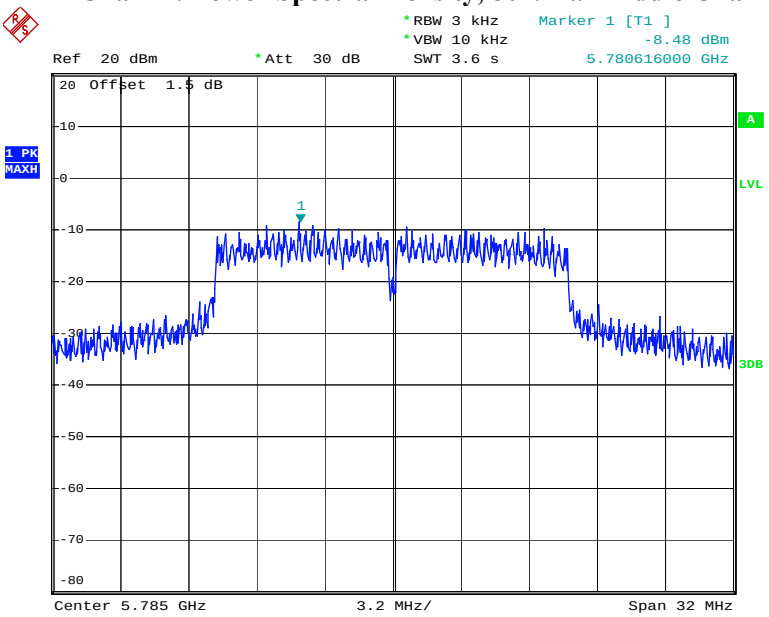
Date: 7.MAY.2014 09:38:58

Chain 1: Power Spectral Density, 802.11a Low Channel



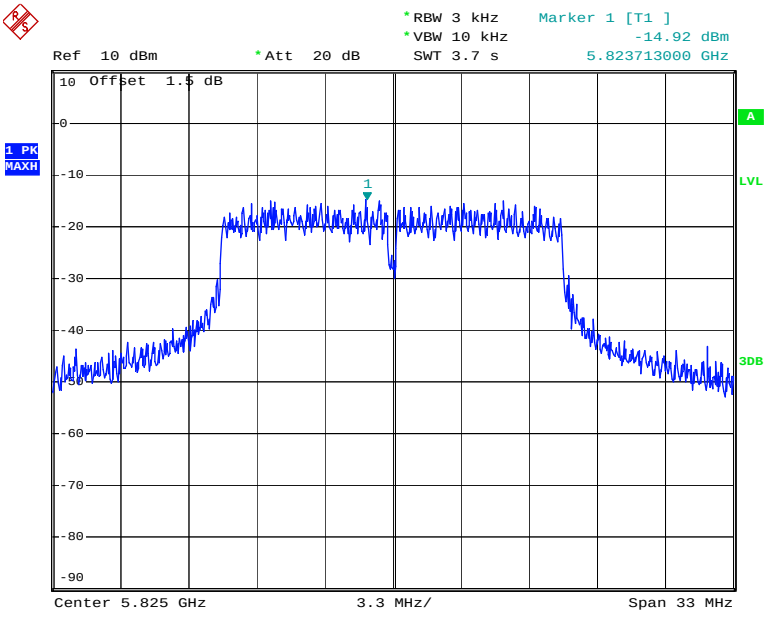
Date: 9.MAY.2014 16:19:15

Chain 1: Power Spectral Density, 802.11a Middle Channel



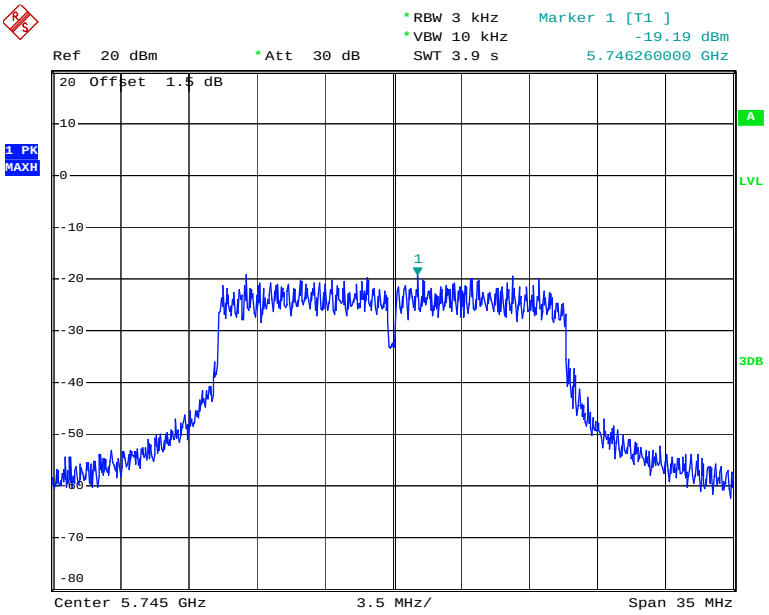
Date: 12.MAY.2014 18:27:25

Chain 1: Power Spectral Density, 802.11a High Channel



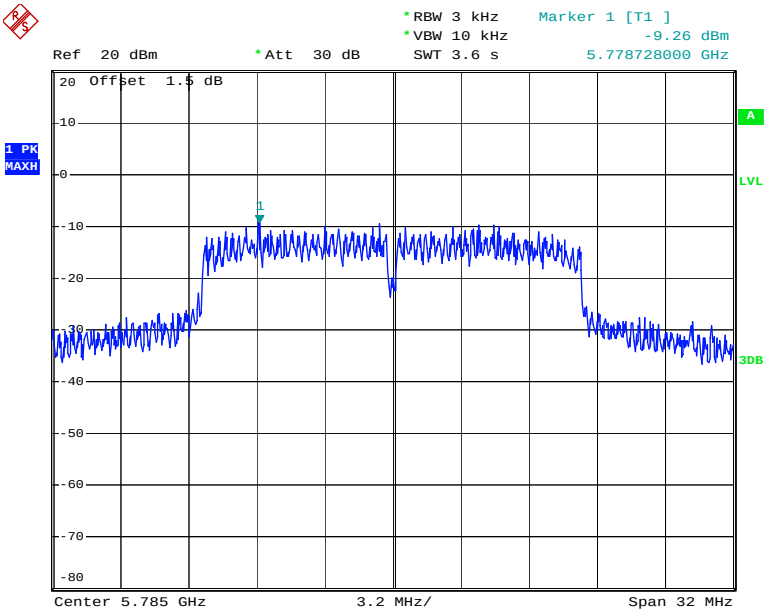
Date: 9.MAY.2014 16:25:19

Chain 0:Power Spectral Density, 802.11 n ht20 Low Channel



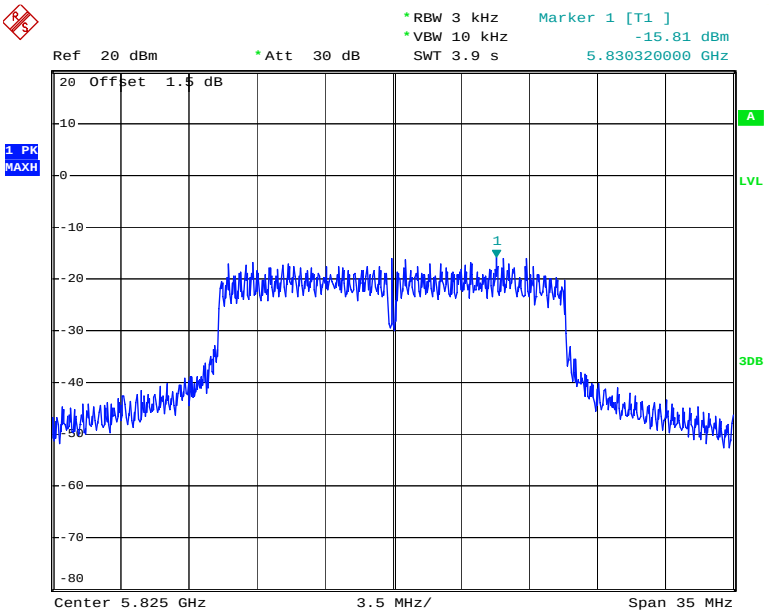
Date: 7.MAY.2014 09:45:32

Chain 0:Power Spectral Density, 802.11n ht20 Middle Channel



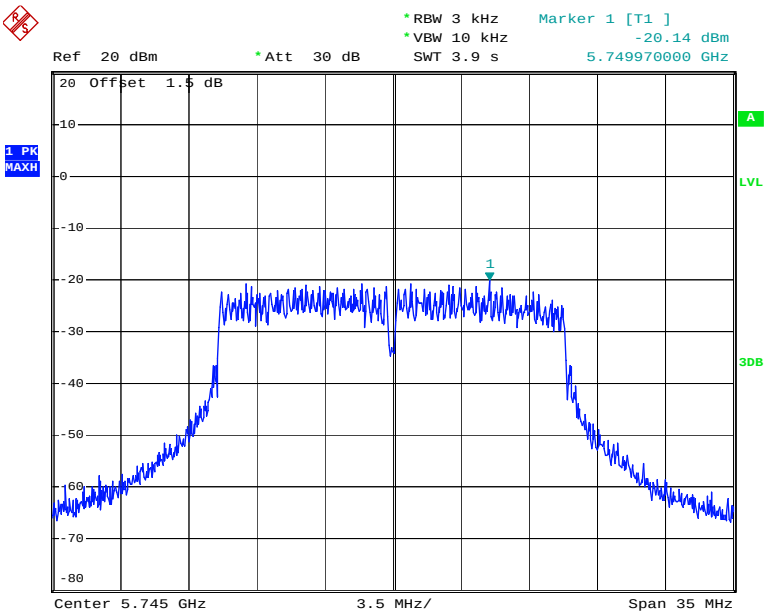
Date: 12.MAY.2014 18:29:53

Chain 0:Power Spectral Density, 802.11n ht20 High Channel



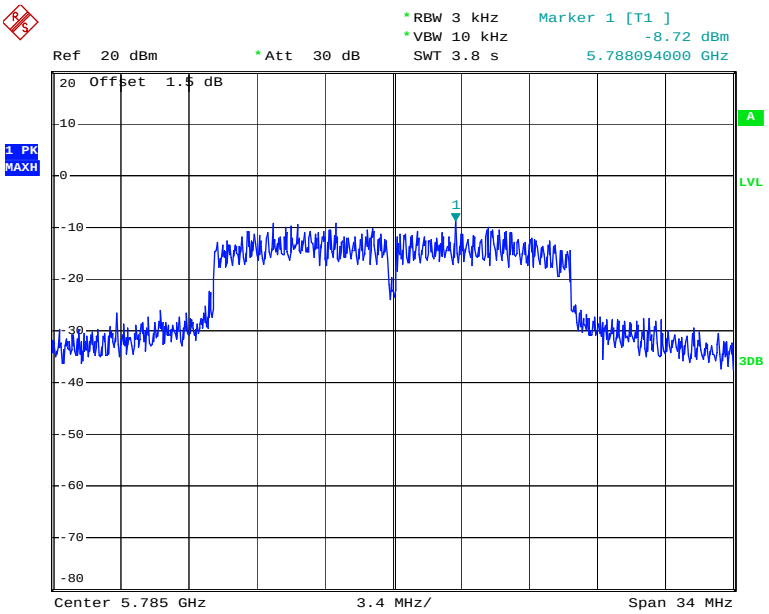
Date: 7.MAY.2014 10:15:46

Chain 1:Power Spectral Density, 802.11 n ht20 Low Channel



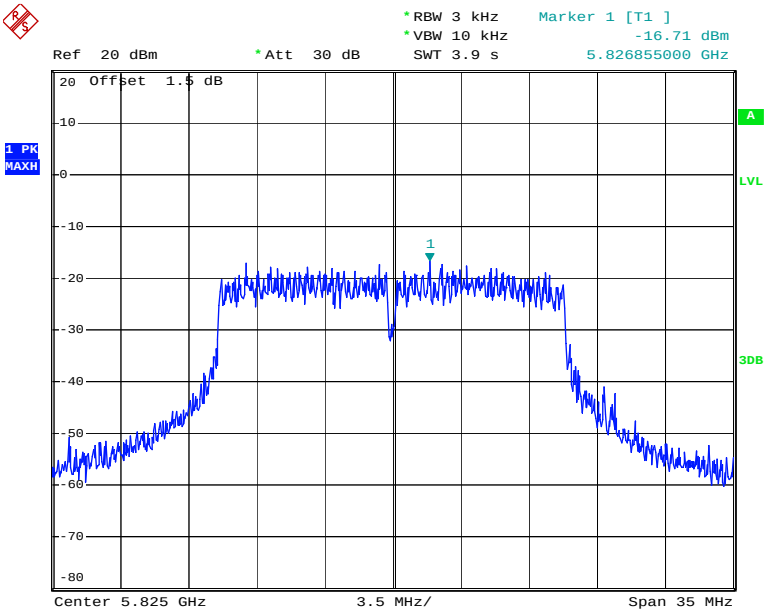
Date: 7.MAY.2014 09:52:31

Chain 1:Power Spectral Density, 802.11n ht20 Middle Channel



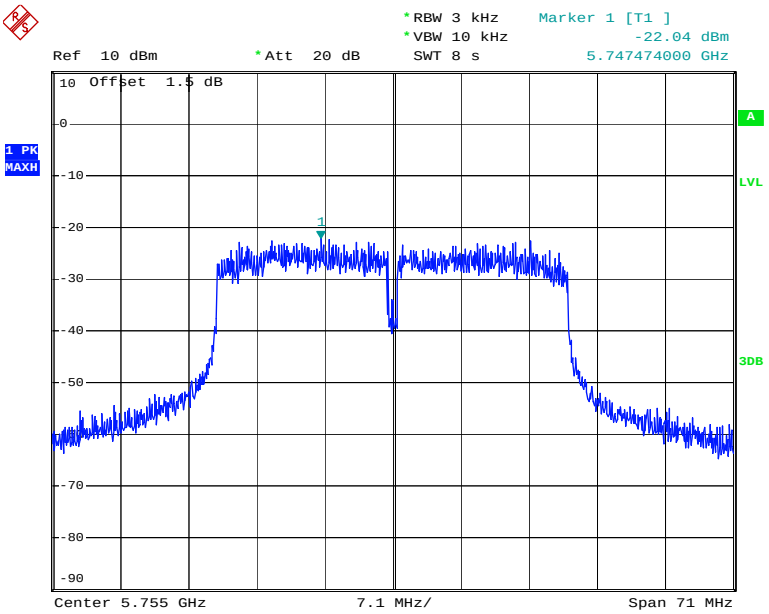
Date: 12.MAY.2014 18:31:45

Chain 1:Power Spectral Density, 802.11n ht20 High Channel



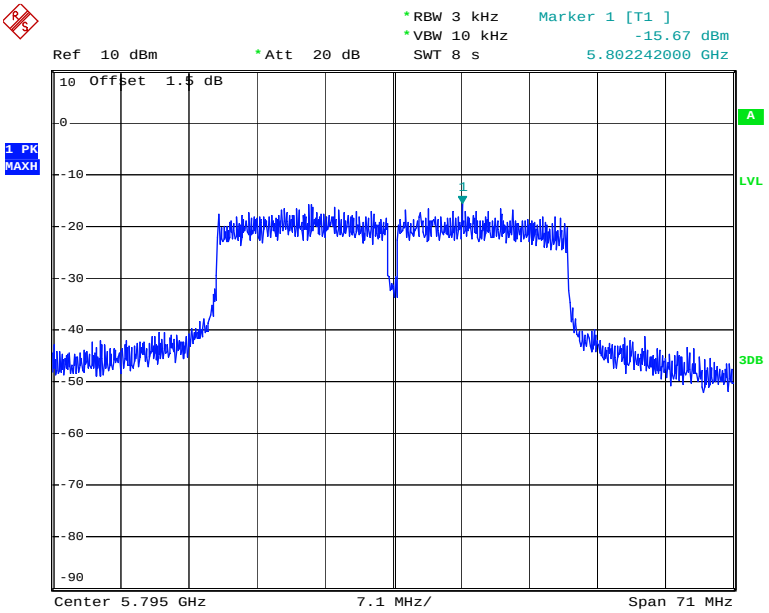
Date: 7.MAY.2014 10:19:50

Chain 0:Power Spectral Density, 802.11n ht40 Low Channel



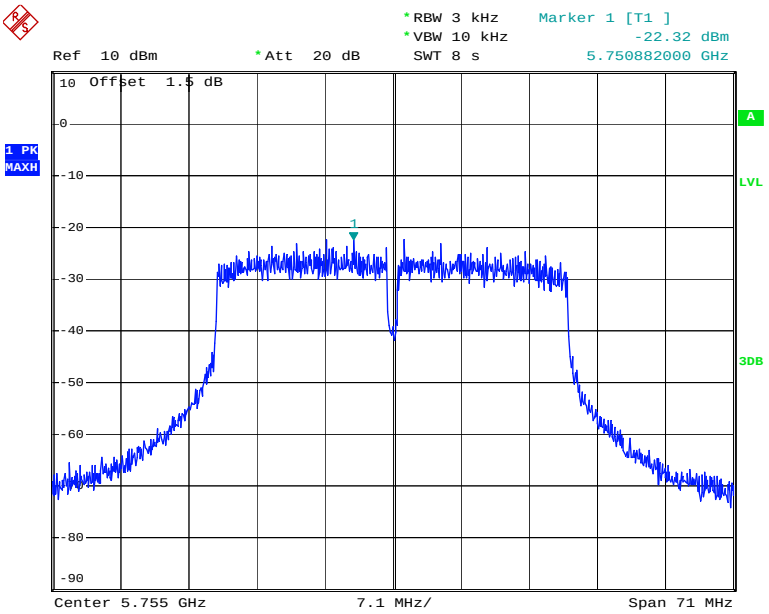
Date: 7.MAY.2014 10:26:16

Chain 0:Power Spectral Density, 802.11n ht40 High Channel



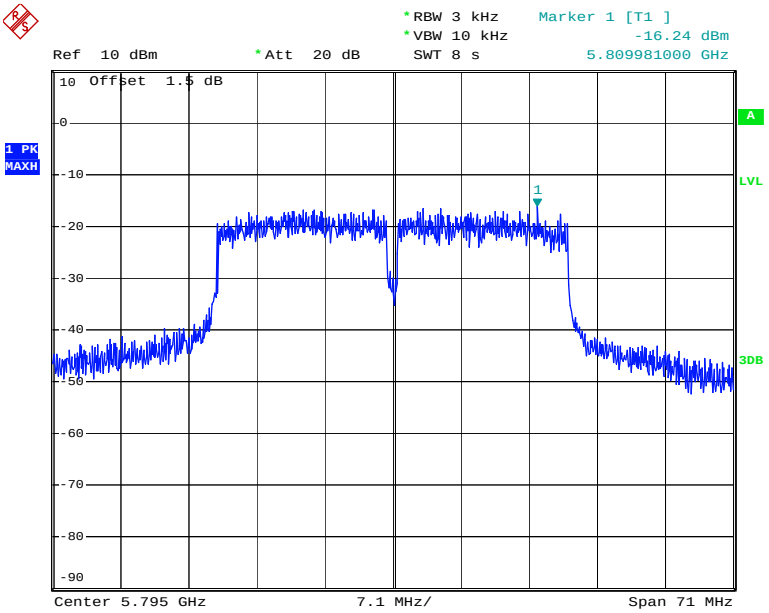
Date: 13.MAY.2014 16:53:27

Chain 1:Power Spectral Density, 802.11n ht40 Low Channel



Date: 7.MAY.2014 10:23:40

Chain 1:Power Spectral Density, 802.11n ht40 High Channel



Date: 13.MAY.2014 16:56:02

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