



EMC TEST REPORT for Intentional Radiator
No. 140101279SHA-001

Applicant : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089
Manufacturer : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089
Product Name : Wireless Access Point
Type/Model : APIN0103

SUMMARY

The equipment complies with the requirements according to the following standard(s):

47CFR Part 15 (2012): Radio Frequency Devices (Subpart C)

ANSI C63.4 (2009): 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

RSS-210 Issue 8 (December 2010): Low-power Licence-exempt Radiocommunication Devices (All Frequency Bands): Category I Equipment

RSS-Gen Issue 3 (December 2010): General Requirements and Information for the Certification of Radiocommunication Equipment

Date of issue: Jan. 24, 2014

Prepared by:

Daniel Zhao (*Project Engineer*)

Reviewed by:

Jonny Jing (*Reviewer*)



FCC ID: Q9DAPIN0103
IC: 4675A-APIN0103

Description of Test Facility

Name: Intertek Testing Services Limited Shanghai
Address: Building No.86, 1198 Qinzhou Road(North), Shanghai 200233, P.R. China

FCC Registration Number: 236597
IC Assigned Code: 2042B-1

Name of contact: Steve Li
Tel: +86 21 64956565 ext. 214
Fax: +86 21 54262335 ext. 214

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1. General Information

1.1 Applicant Information

Applicant : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089
Name of contact : Greg Rocha
Tel : 408-419-4093
Fax : /
Manufacturer : Aruba Networks, Inc
1344 Crossman Ave. Sunnyvale, CA,94089

1.2 Identification of the EUT

Product Name : **Wireless Access Point**
Type/model : **APIN0103**
FCC ID : Q9DAPIN0103
IC : 4675A-APIN0103



1.3 Technical specification

Operation Frequency : 2412~2462 MHz;
Band : 5745~5825 MHz

Type of Modulation : CCK,BPSK,QPSK,DSSS,OFDM

EUT Modes of : 802.11a/b/g;
Modulation : 802.11n HT20,HT40;

Channel Number : 11Channel for 2412MHz~2462MHz for 11b,11g,11n HT20;
7 Channel for 2422MHz~2452MHz for 11n HT40;
5745MHz~5825MHz for 11a&11n HT20: channel 149 - 165
5755~5795MHz for 11n HT40: channel 151 - 159

Description of EUT : The EUT is a wireless access point, and it is a MIMO product.

Port identification : power port 1;
RJ45 ports 1

Antenna : Integral, 3.9 dBi for 2.4GHz band, 4.1 dBi for 5.15 – 5.35GHz
band, 4.3 dBi for 5.475 – 5.850 GHz band

Rating : DC 12V, 1A (Adaptor) or DC 57V, 350 mA(PoE)

Declared : 0°C ~ 45°C
Temperature range

Category of EUT : Class B

EUT type : Table top Floor standing

Sample received date : Dec. 26, 2013

Sample Identification :
No /

Date of test : Dec. 26, 2013 – Jan. 10, 2014



MIMO Function Description:

Freq. Band	Modulation	Tx/Rx Function	Beam forming	Array Gain	Note
2412-2462MHz	802.11b	2TX/2RX	NO	0 dBi	
	802.11g	2TX/2RX	NO	0 dBi	
	802.11n HT20	2TX/2RX	NO	0 dBi	
	802.11n HT40	2TX/2RX	NO	0 dBi	
5745-5825MHz	802.11a	2TX/2RX	NO	0 dBi	
	802.11n HT20	2TX/2RX	NO	0 dBi	
	802.11n HT40	2TX/2RX	NO	0 dBi	

Note: The mimo mode (IEEE 802.11) is Cyclic Delay Diversity, and the array gain is 0 dBi according to clause f) of KDB 662911.



2. Test Specification

2.1 Instrument list

Equipment	Type	Manu.	Internal no.	Cal. Date	Due date
Test Receiver	ESCS 30	R&S	EC 2107	2013-10-21	2014-10-20
Test Receiver	ESIB 26	R&S	EC 3045	2013-10-21	2014-10-20
Test Receiver	ESCI 7	R&S	EC4501	2013-12-29	2014-12-28
Spectrum Analyzer	N9010	Agilent	EC4890	2013-10-21	2014-10-20
Power meter	ML 2495A	Anritsu	EC 4895	2013-10-21	2014-10-20
A.M.N.	ESH2-Z5	R&S	EC 3119	2014-1-9	2015-1-8
Bilog Antenna	CBL 6112D	TESEQ	EC 4206	2013-5-16	2014-5-15
Horn antenna	HF 906	R&S	EC 3049	2013-5-13	2014-5-12
Pre-amplifier	Pre-amp 18	R&S	EC 3222	2013-4-12	2014-4-11
Pre-amplifier	Tpa0118-40	R&S	EC 4792-2	2013-4-12	2014-4-11
Log-period antenna	AT 1080	AR	EC 3044-7	2013-5-22	2014-5-21
Biconical antenna	3109PX	ETS	EC3564	2013-8-25	2014-8-24
Semi-anechoic chamber	-	Albatross project	EC 3048	2013-5-21	2014-5-20
Shielded room	-	Zhongyu	EC 2838	2014-1-12	2016-1-11
Shielded room	-	Zhongyu	EC 2839	2014-1-12	2016-1-11
High Pass Filter	WHKX 1.0/15G-10SS	Wainwright	EC4297-1	2013-2-1	2014-1-31
High Pass Filter	WHKX 2.8/18G-12SS	Wainwright	EC4297-2	2013-2-1	2014-1-31
High Pass Filter	WHKX 7.0/1.8G-8SS	Wainwright	EC4297-3	2013-2-1	2014-1-31
Band Reject Filter	WRCGV 2400/2483-2390/2493-35/10SS	Wainwright	EC4297-4	2013-2-1	2014-1-31

2.2 Test Standard

47CFR Part 15 (2012)
ANSI C63.4 (2009)
KDB 558074 (V03R01)
KDB 662911 (V02R01)
RSS-210 Issue 8 (December 2010)
RSS-Gen Issue 3 (December 2010)

2.3 Mode of operation during the test / Test peripherals used

While testing transmitting mode of EUT, the internal modulation and continuously transmission was applied.

The lowest, middle and highest channel were tested as representatives.

Freq. Band	Modulation	Lowest(MHz)	Middle(MHz)	Highest(MHz)
2412-2462MHz	802.11b	2412	2437	2462
	802.11g	2412	2437	2462
	802.11n HT20	2412	2437	2462
	802.11n HT40	2422	2437	2452
5745-5825MHz	802.11a	5745	5785	5825
	802.11n HT20	5745	5785	5825
	802.11n HT40	5755	/	5795

Test software setting:

The power level setting for 802.11a/b/g/n/ac is used with ART software offered by the manufactory.

For 2.4G Band:

Mode 1	Frequency (MHz)	ART Setting	Note
802.11b	2412	18.00	
	2437	18.00	
	2462	18.00	
802.11g	2412	15.00	
	2437	18.00	
	2462	14.50	
802.11n20	2412	15.00	
	2437	18.00	
	2462	15.00	
802.11n40	2422	13.00	
	2437	18.00	
	2452	11.50	



For 5.8G Band:

Mode 1	Frequency (MHz)	ART Setting	Note
802.11a	5745	18.00	
	5785	18.00	
	5825	18.00	
802.11n20	5745	18.00	
	5785	18.00	
	5825	18.00	
802.11n40	5755	18.00	
	5795	18.00	

Test peripherals used:

Item No	Description	Band and Model	S/No
1	Laptop computer	HP ProBook 6470b	NA



Data rate VS Power

The pre-scan for the conducted power with all rates in each modulation and bands was used, and the worst case was found and used in all test cases.

2.4GHz Band:

After this pre-scan, we choose the following table of the data rate as the worst case.

Freq. Band	Modulation	Worst case data rate
2400-2483.5MHz	802.11b	1Mbps
	802.11g	6Mbps
	802.11n HT20	MCS8
	802.11n HT40	MCS8

5.8GHz Band:

After this pre-scan, we choose the following table of the data rate as the worst case.

Freq. Band	Modulation	Worst case data rate
5725-5850MHz	802.11a	6Mbps
	802.11n HT20	MCS8
	802.11n HT40	MCS8



2.4 Test Summary

This report applies to tested sample only. This report shall not be reproduced in part without written approval of Intertek Testing Service Shanghai Limited.

TEST ITEM	FCC REFERANCE	IC REFERANCE	RESULT
Minimum 6dB Bandwidth	15.247(a)(2)	RSS-210 Issue 8 Annex 8	Pass
Maximum peak output power	15.247(b)	RSS-210 Issue 8 Annex 8	Pass
Power spectrum density	15.247(e)	RSS-210 Issue 8 Annex 8	Pass
Radiated emission	15.205 & 15.209	RSS-210 Issue 8 Clause 2	Pass
Emission outside the frequency band	15.247(d)	RSS-210 Issue 8 Annex 8	Pass
Power line conducted emission	15.207	RSS-Gen Issue 3 Clause 7.2.4	Pass
Occupied bandwidth	-	RSS-Gen Issue 3 Clause 4.6.1	Tested

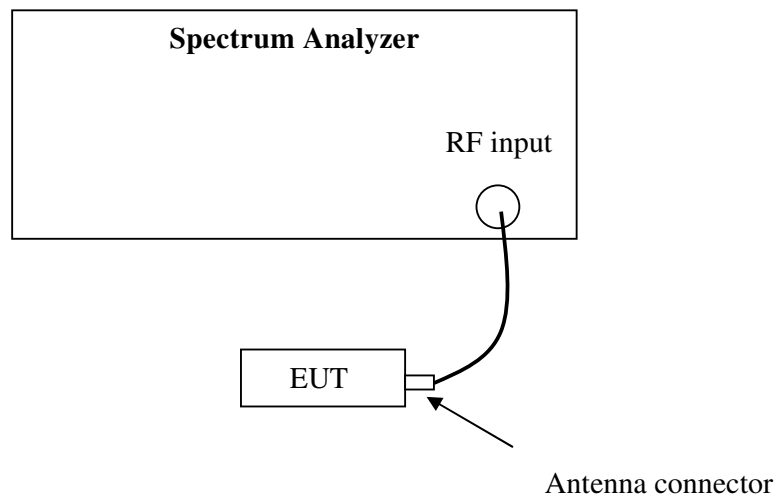
3. Minimum 6dB Bandwidth

Test result: PASS

3.1 Limit

For systems using digital modulation techniques that 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.

3.2 Test Configuration



3.3 Test Procedure and test setup

The minimum 6dB bandwidth per FCC §15.247(a)(2) is measured using the Spectrum Analyzer according to DTS test procedure of "KDB558074 D01 DTS Meas Guidance v03r01" for compliance to FCC 47CFR 15.247 requirements.

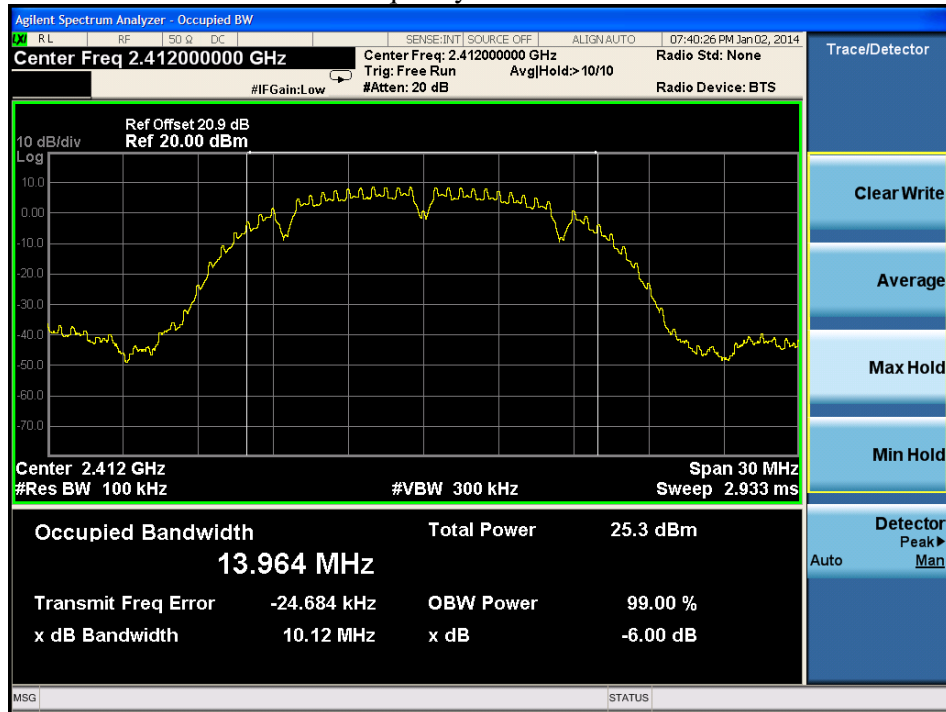
3.4 Test Protocol

Temperature : 25°C
Relative Humidity : 55%

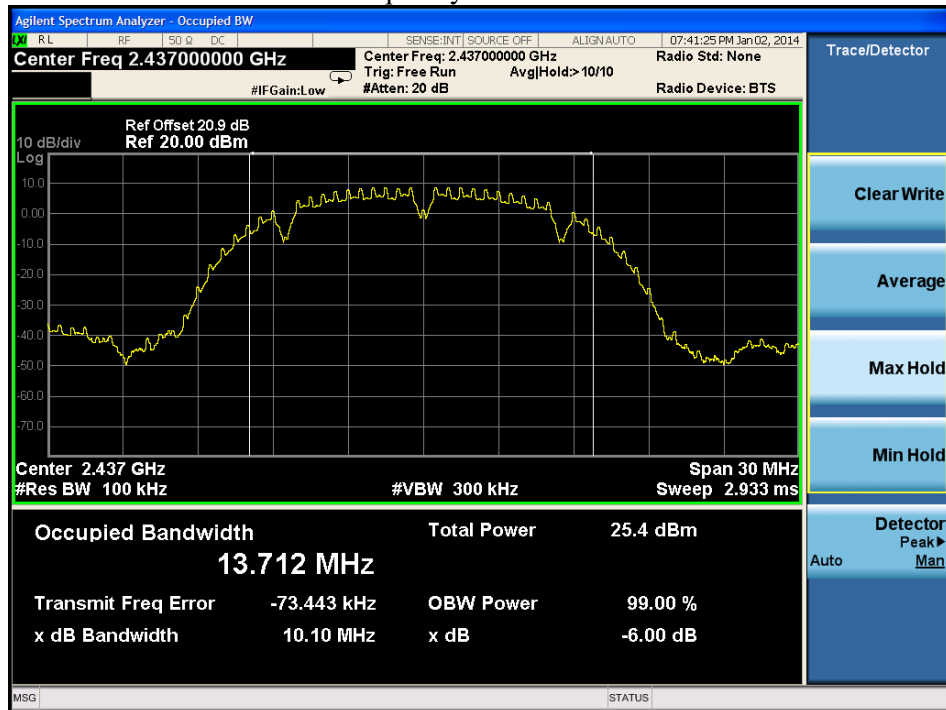
Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11b – chain 0	L	10.12	≥0.5
	M	10.10	
	H	10.10	

Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11b – chain 1	L	10.13	≥0.5
	M	10.11	
	H	10.09	

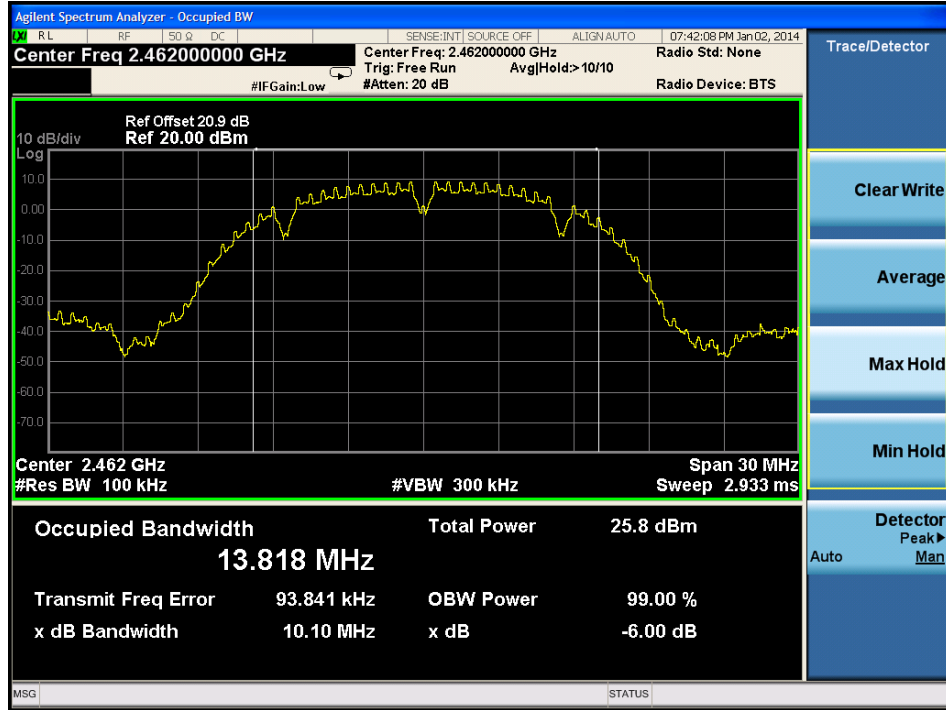
Frequency L – Chain 0



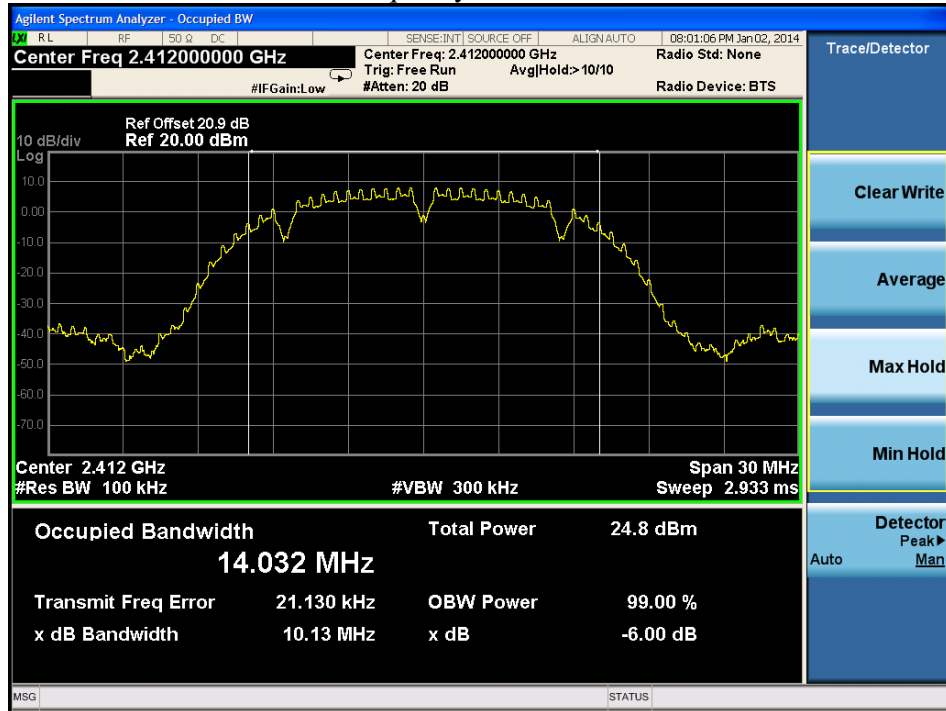
Frequency M – Chain 0



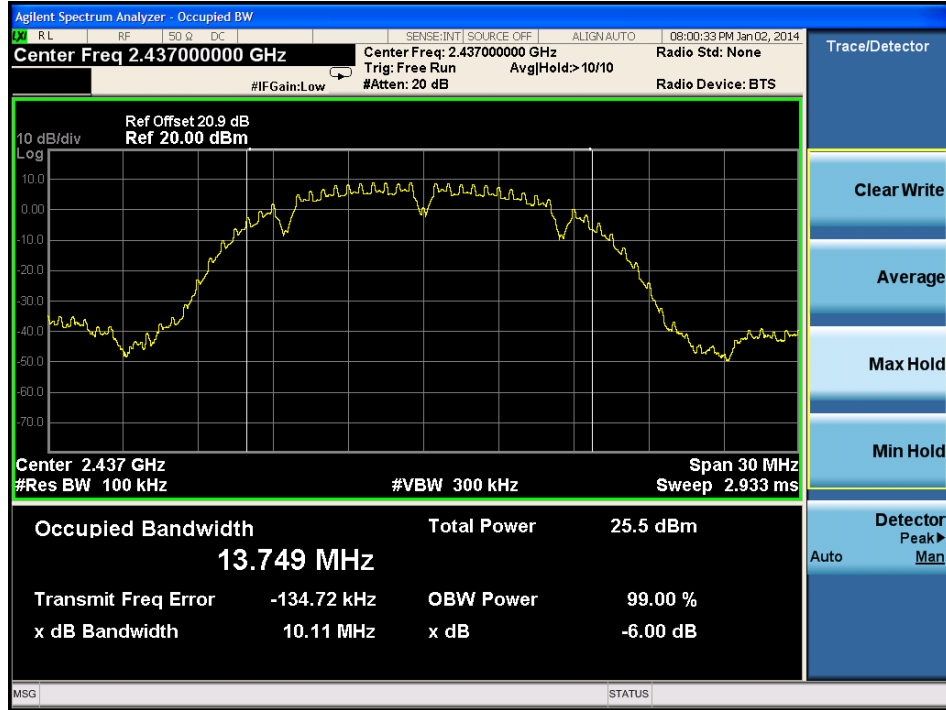
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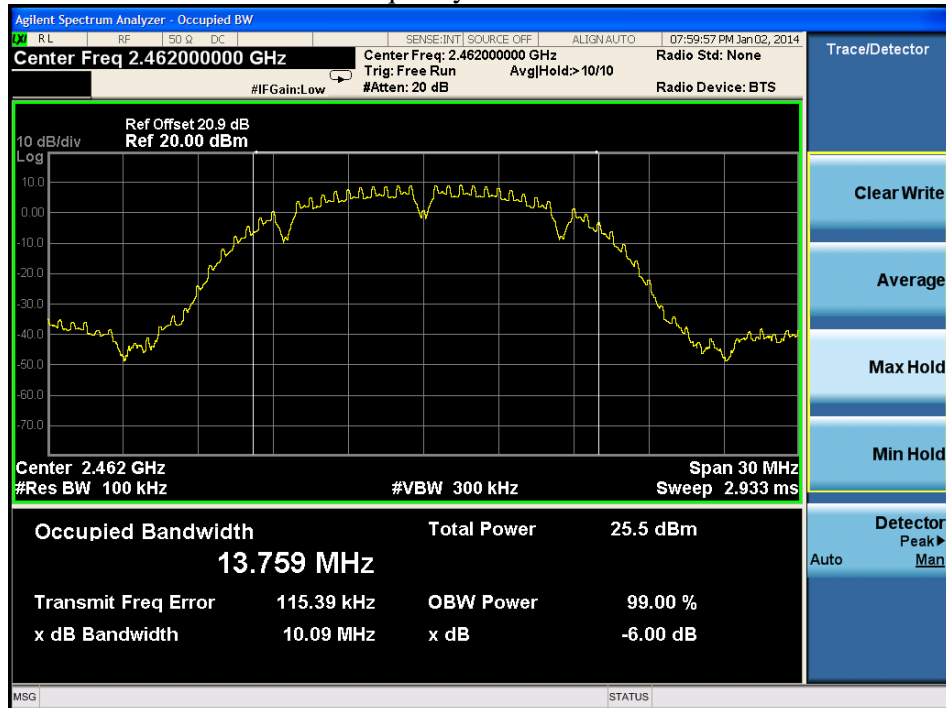
Frequency L – Chain 1



Frequency M – Chain 1



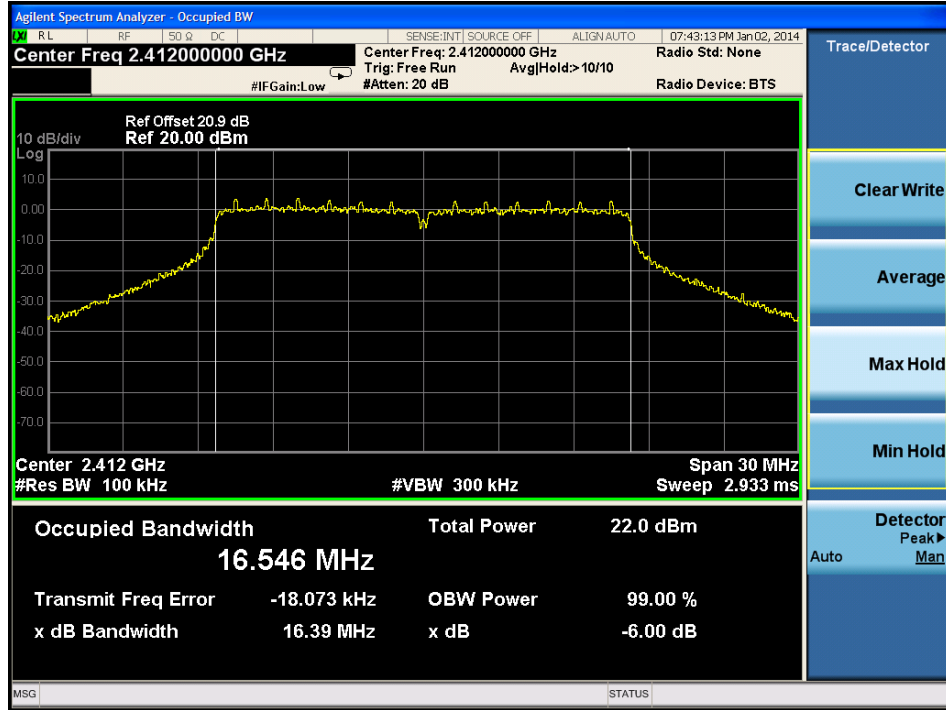
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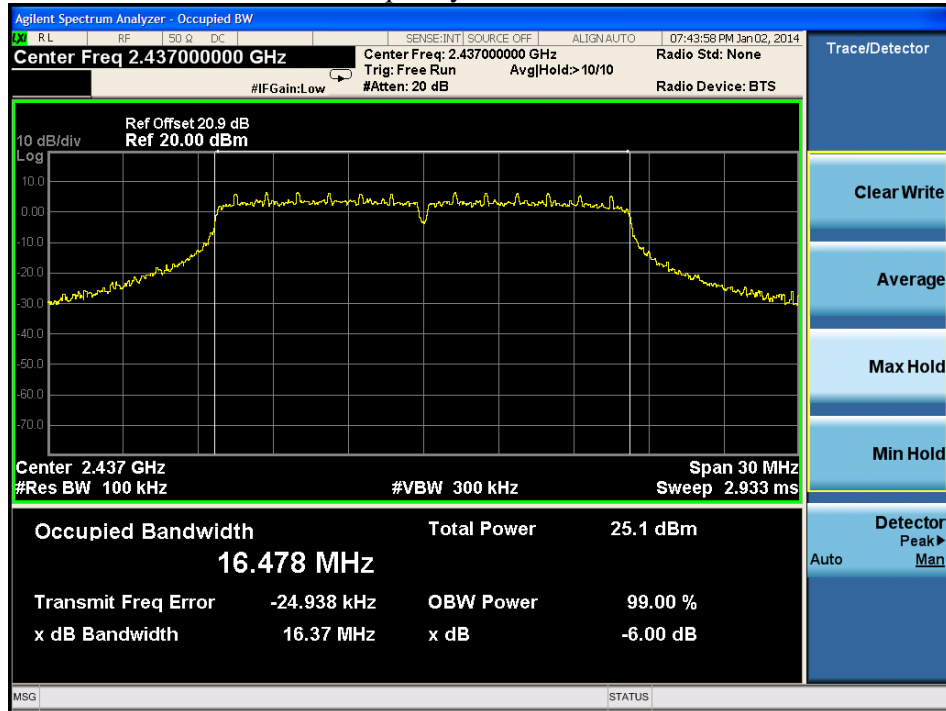
Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11g – chain 0	L	16.39	≥0.5
	M	16.37	
	H	16.38	

Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11g – chain 1	L	16.44	≥0.5
	M	16.34	
	H	16.38	

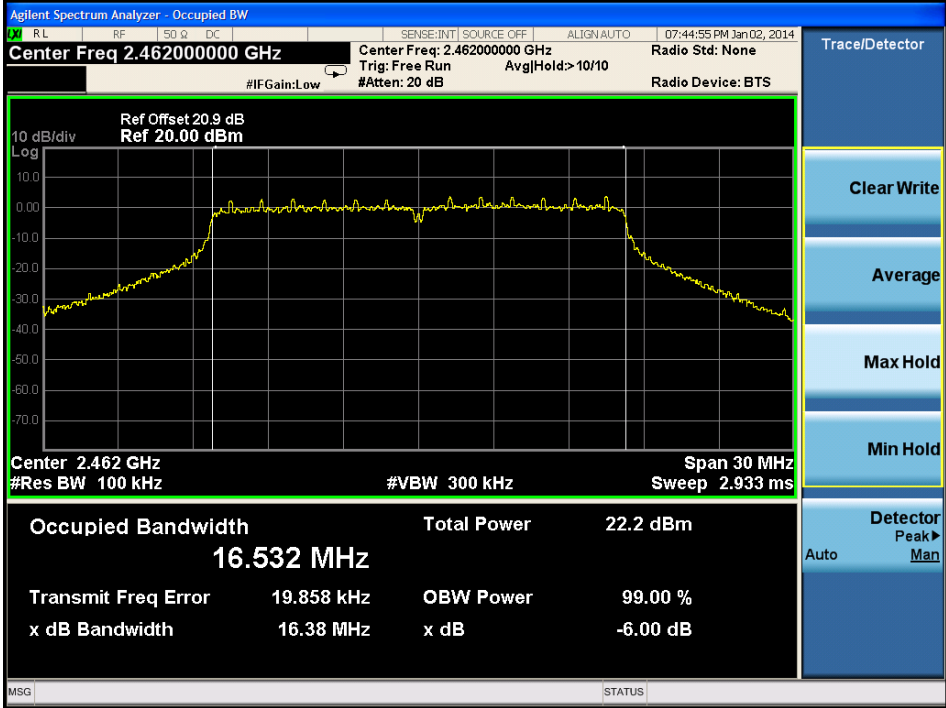
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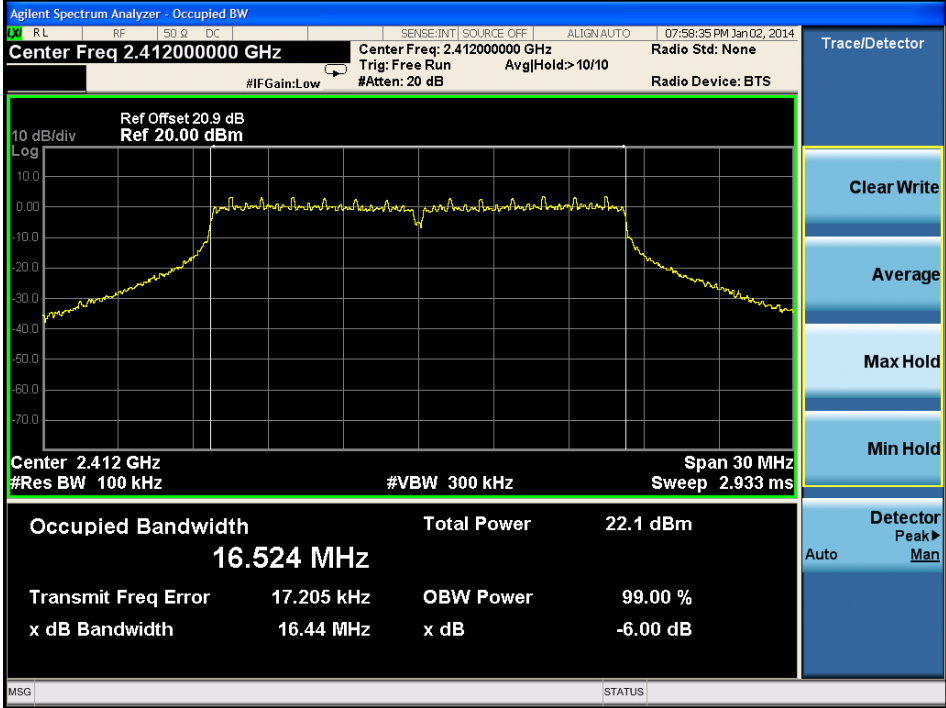
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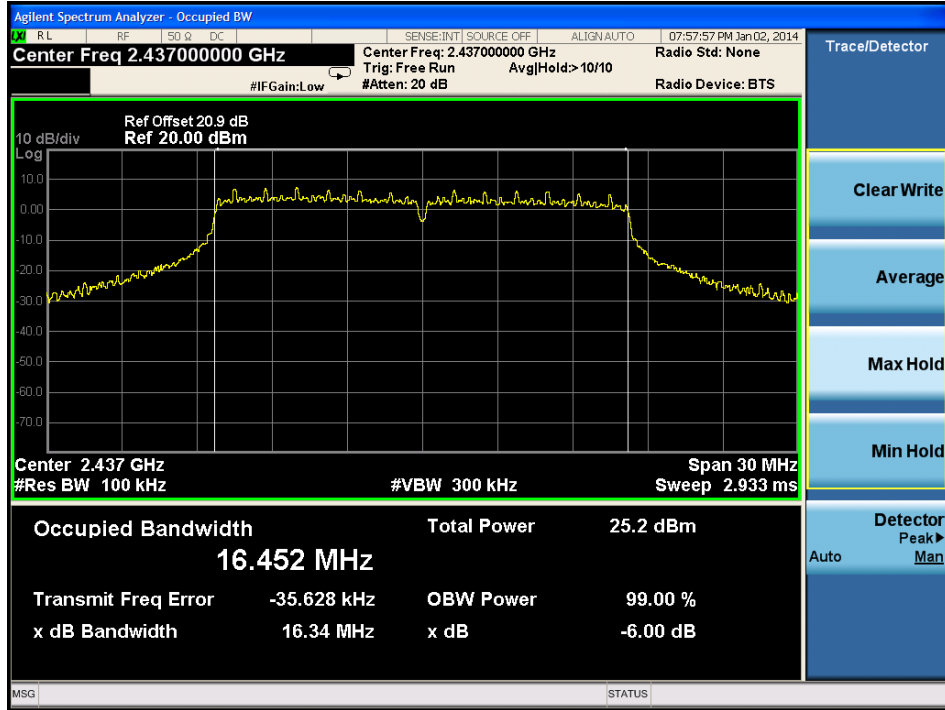
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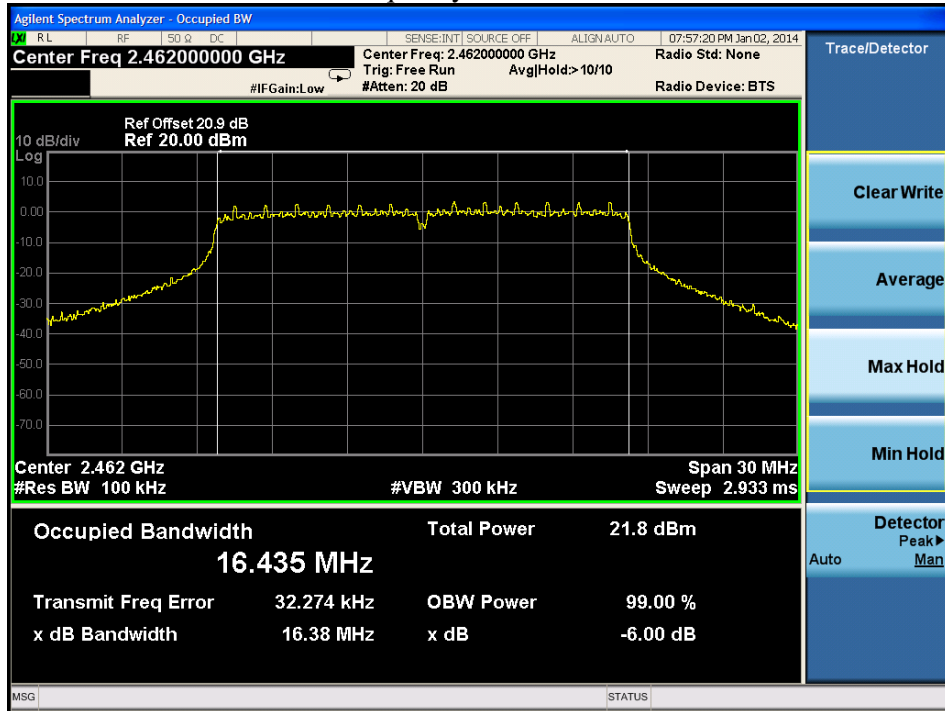
Frequency L – Chain 1



Frequency M – Chain 1



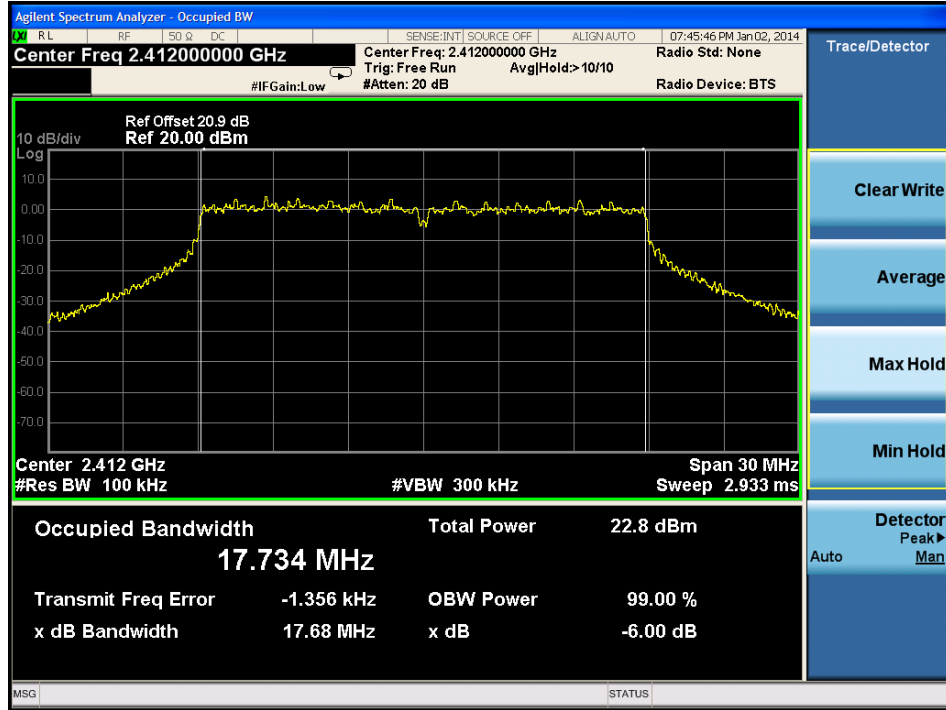
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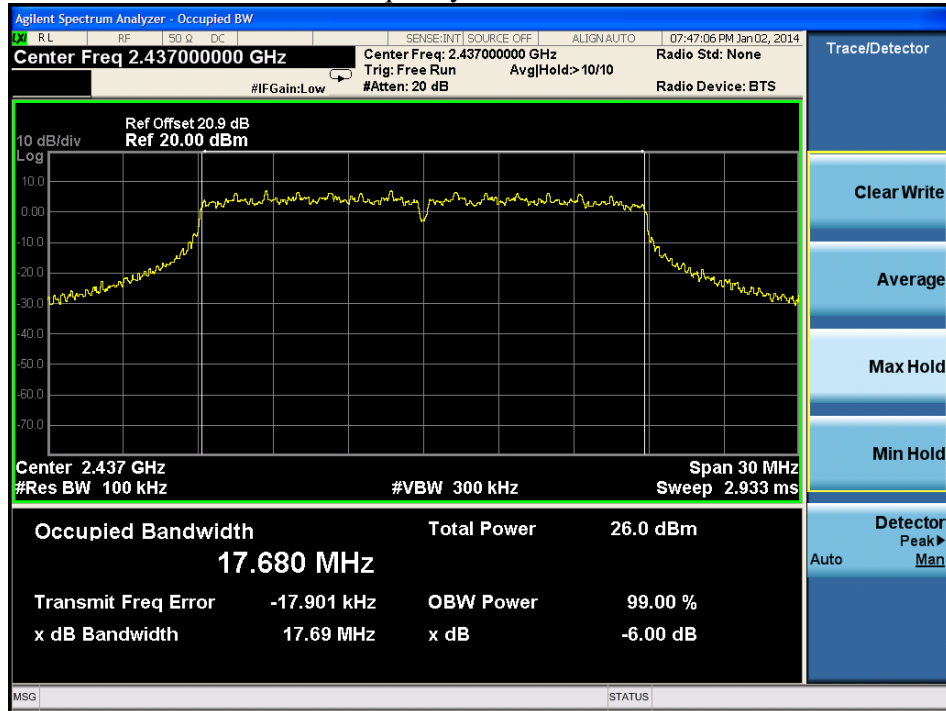
Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11n20 – chain 0	L	17.68	≥0.5
	M	17.69	
	H	17.73	

Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11n20 – chain 1	L	17.72	≥0.5
	M	17.59	
	H	17.67	

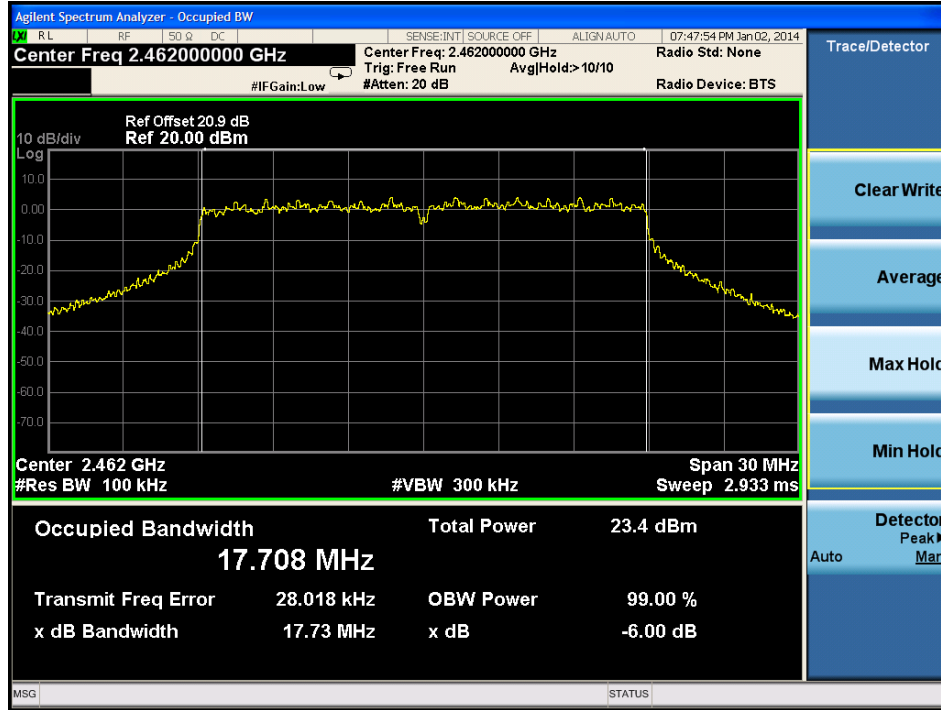
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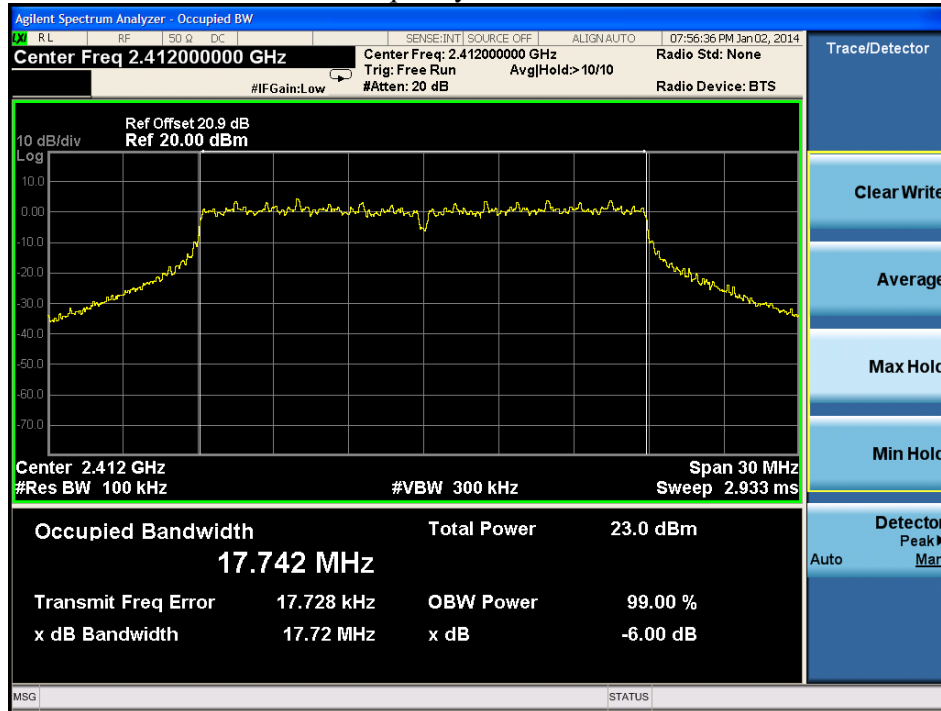
Frequency M – Chain 0



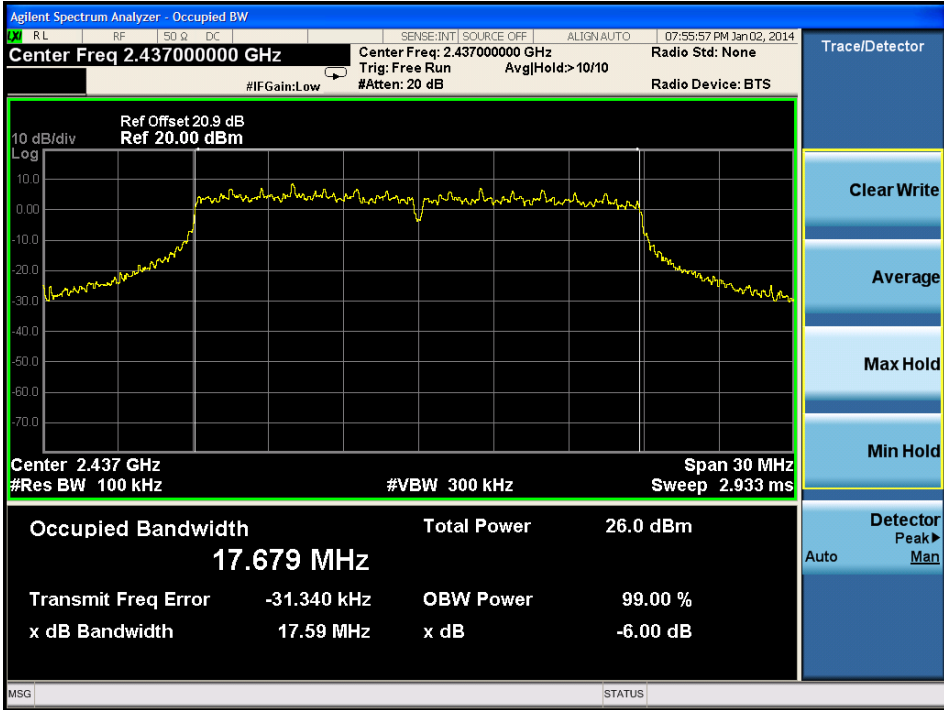
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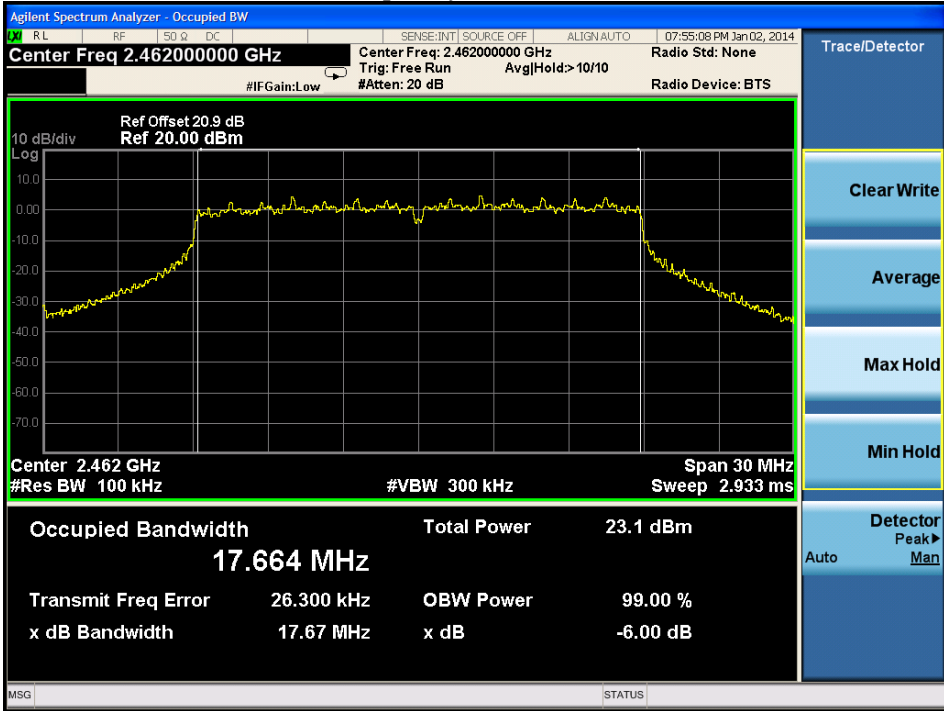
Frequency L – Chain 1



Frequency M – Chain 1



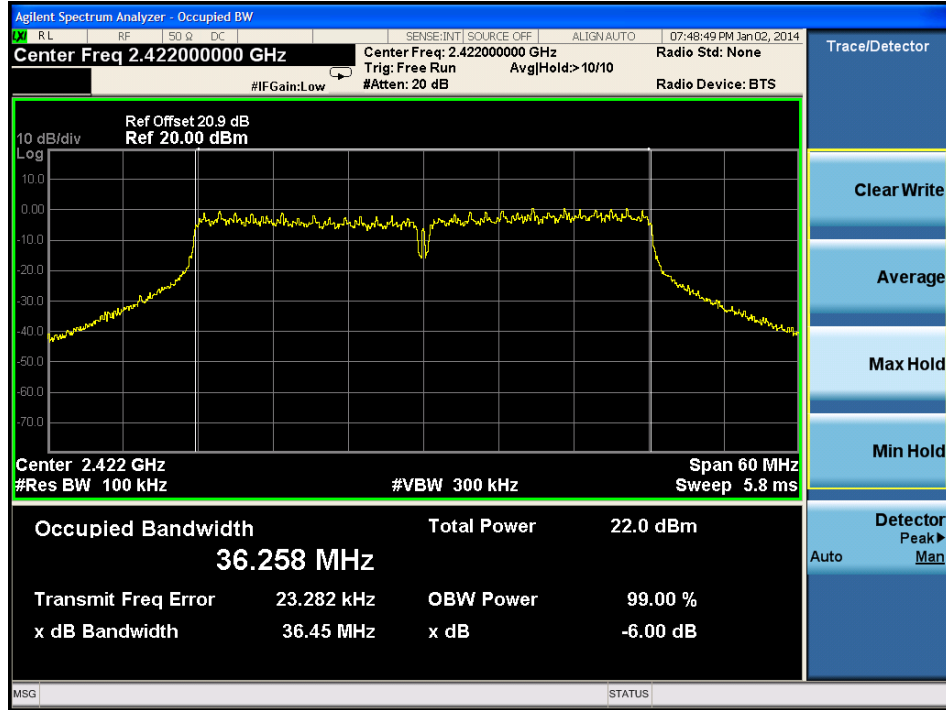
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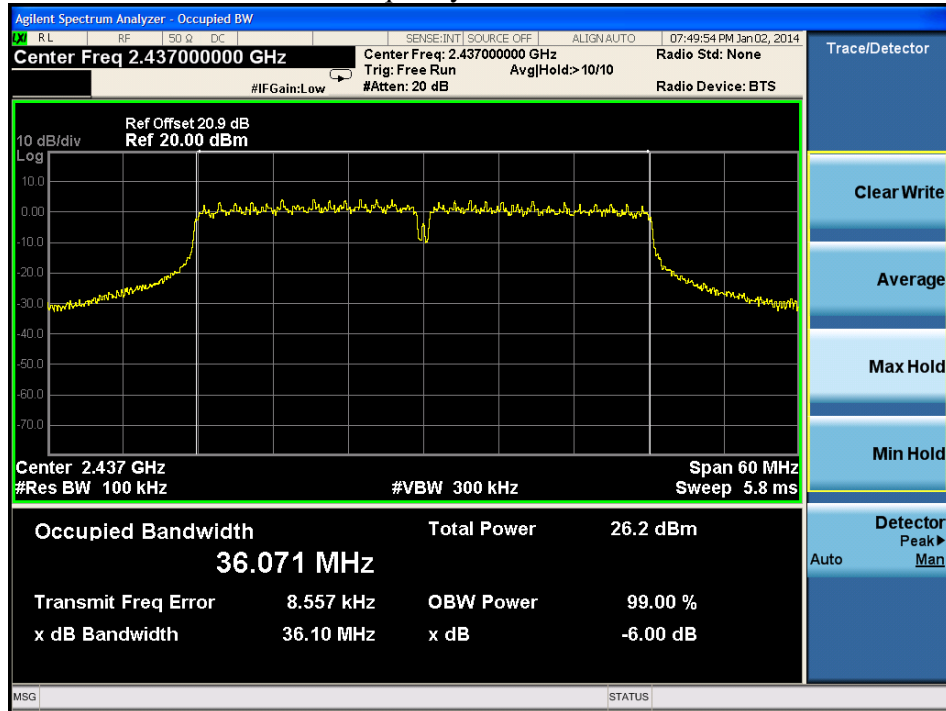
Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11n40 – chain 0	L	36.45	≥0.5
	M	36.10	
	H	36.50	

Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11n40 – chain 1	L	36.35	≥0.5
	M	35.94	
	H	36.45	

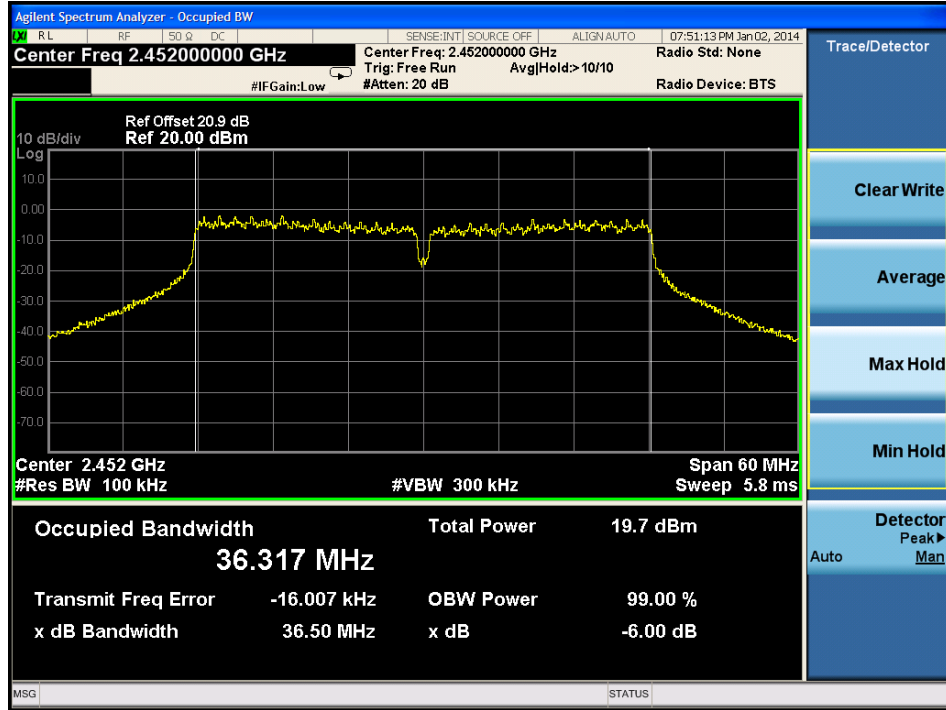
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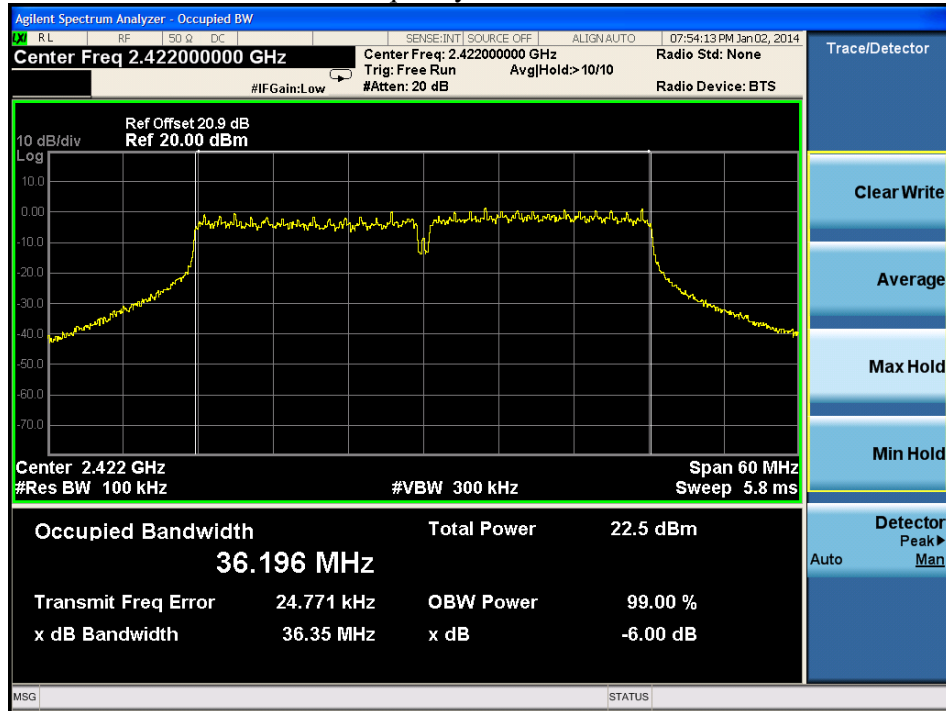
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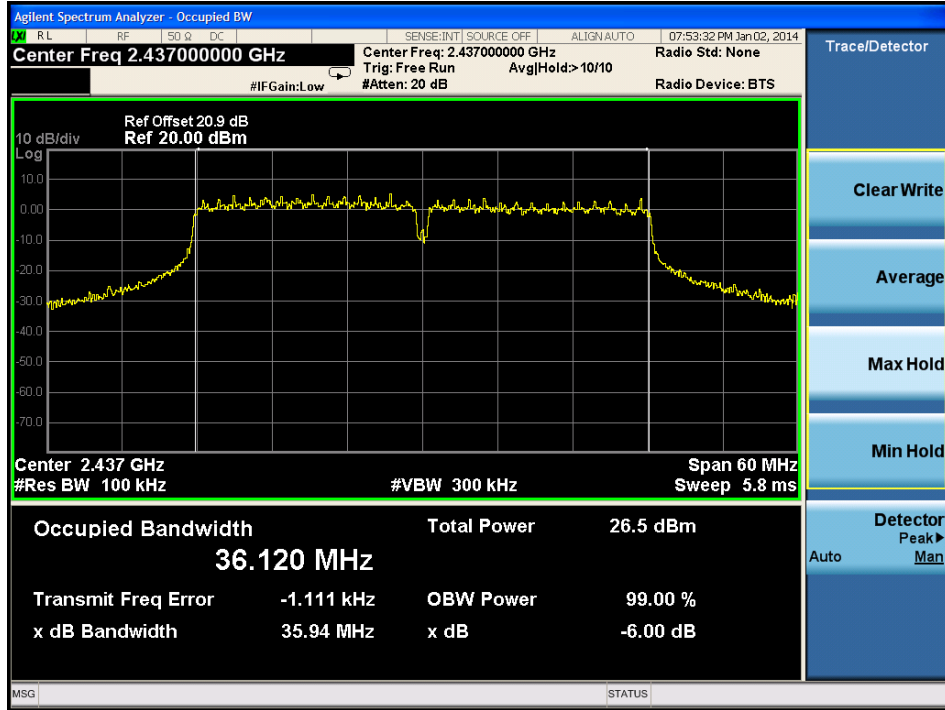
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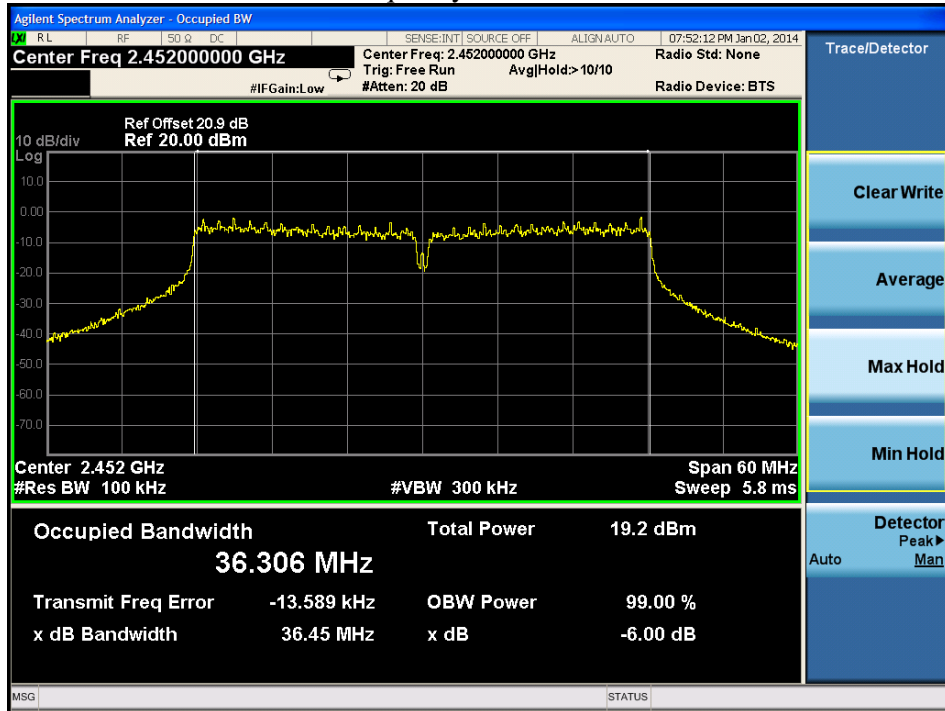
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Frequency M – Chain 1



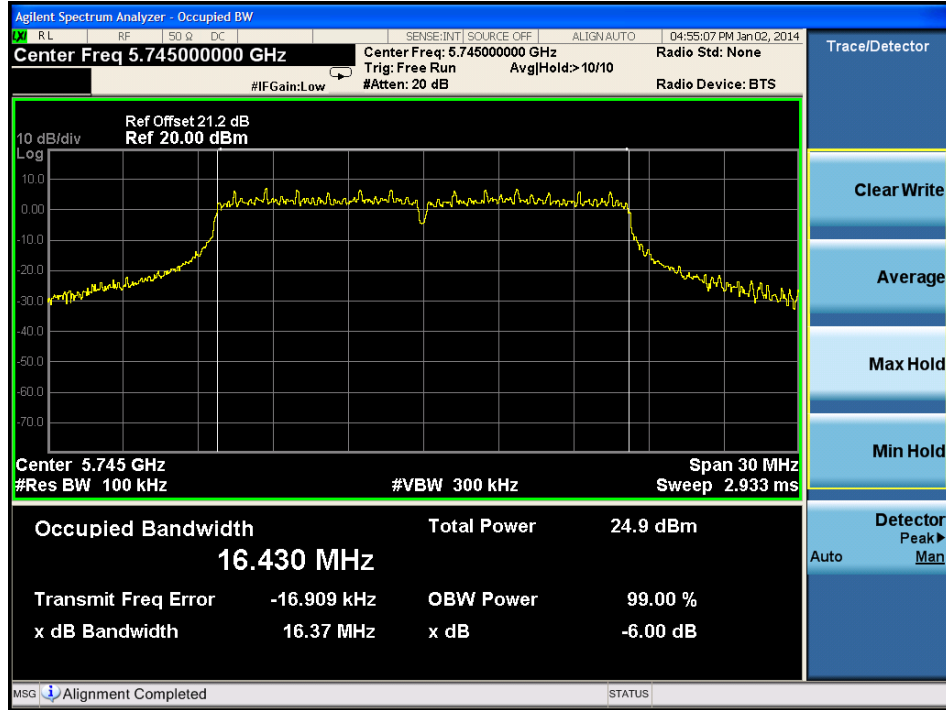
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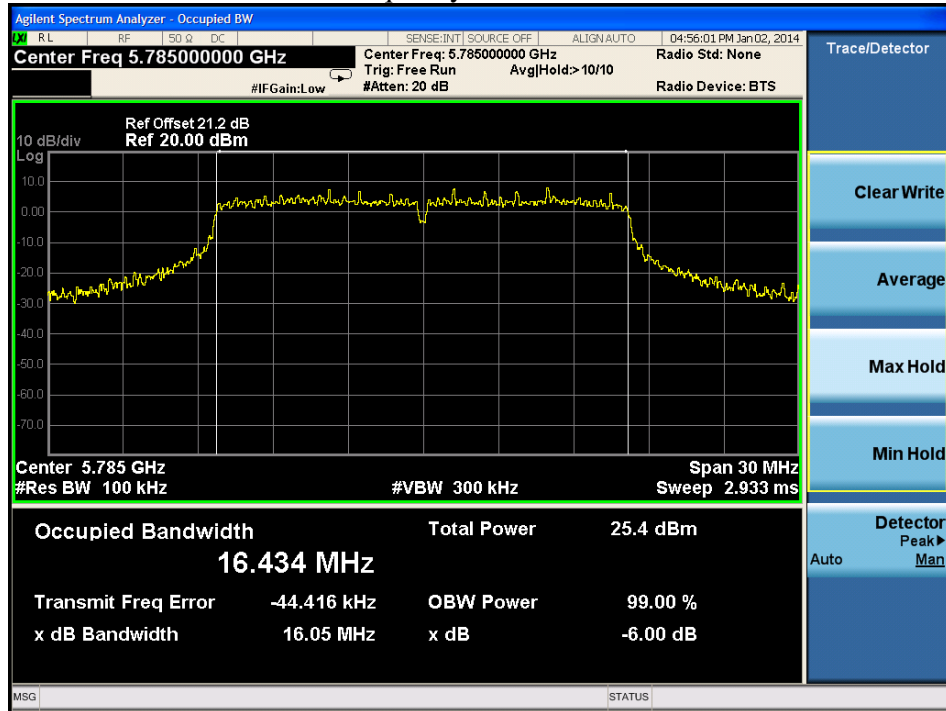
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802.11a – chain 0	L	16.37	≥0.5
	M	16.05	
	H	16.37	

Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11a – chain 1	L	16.36	≥0.5
	M	16.36	
	H	16.34	

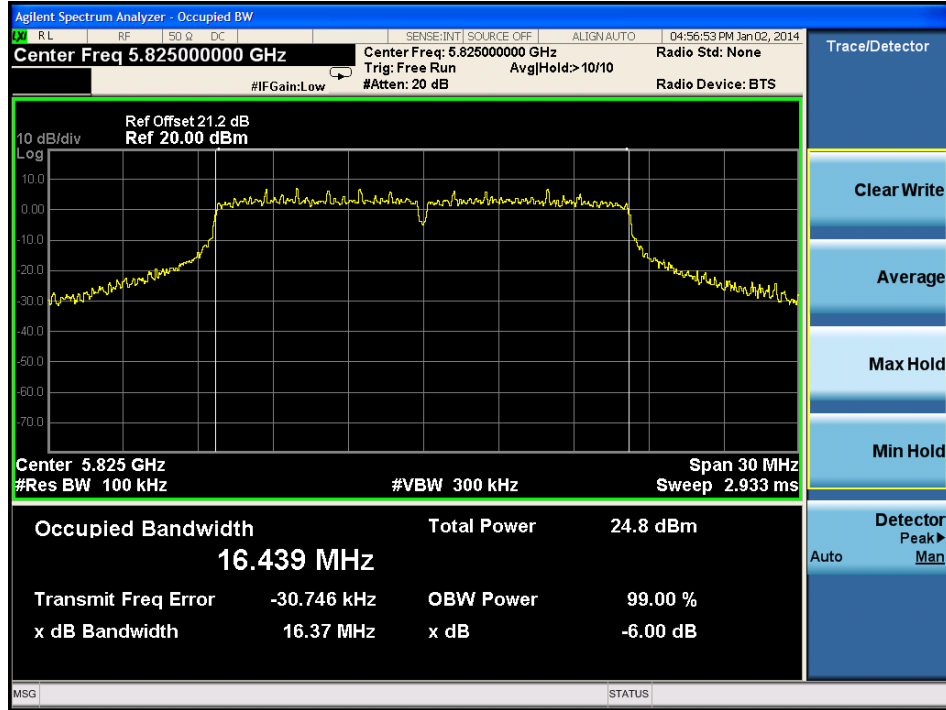
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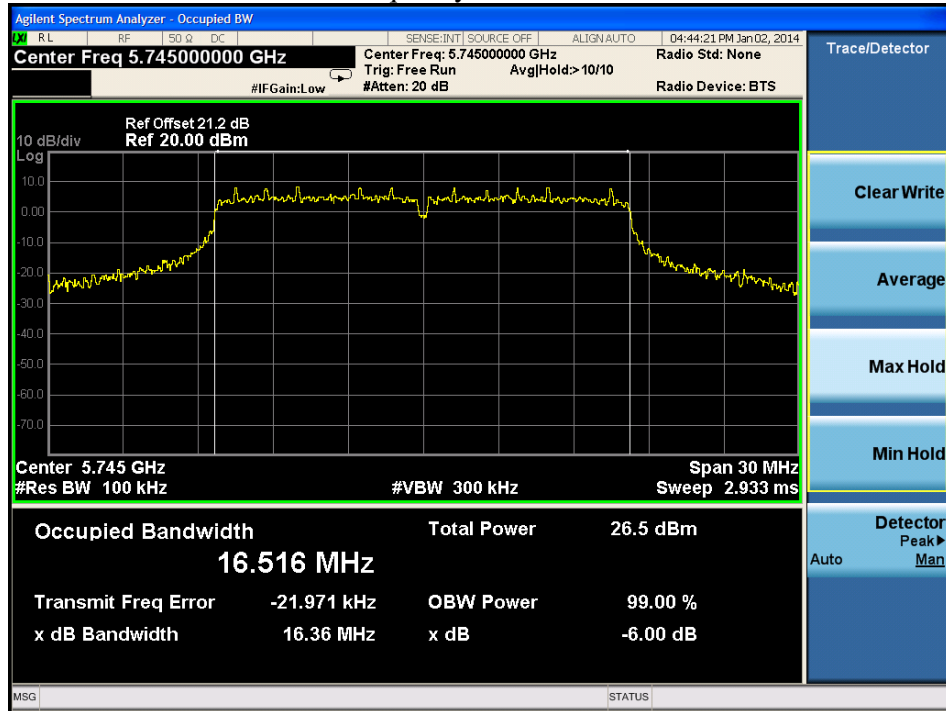
Frequency M – Chain 0



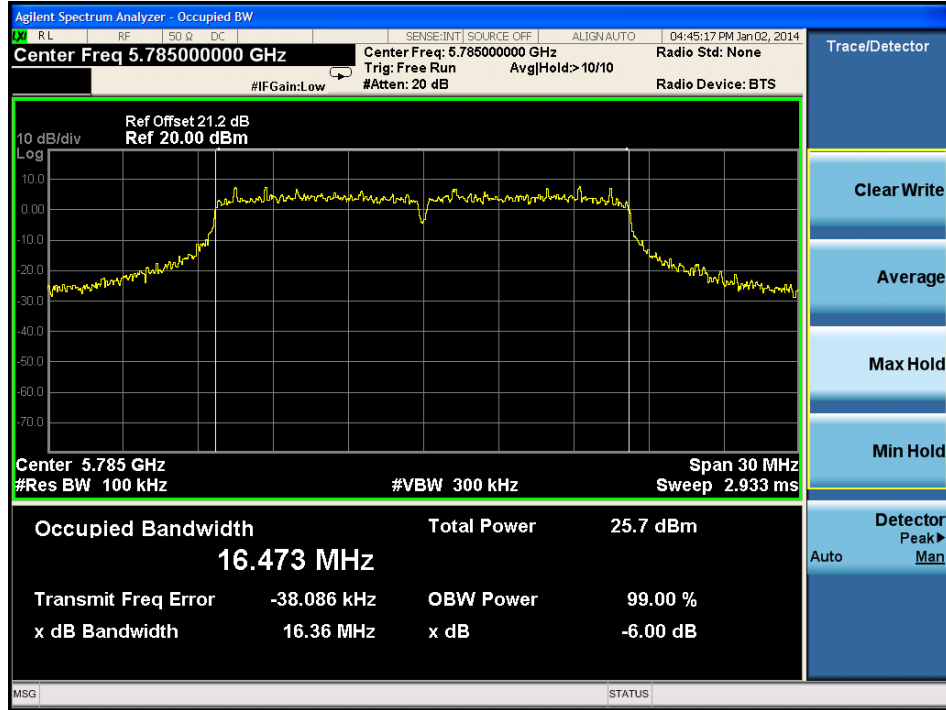
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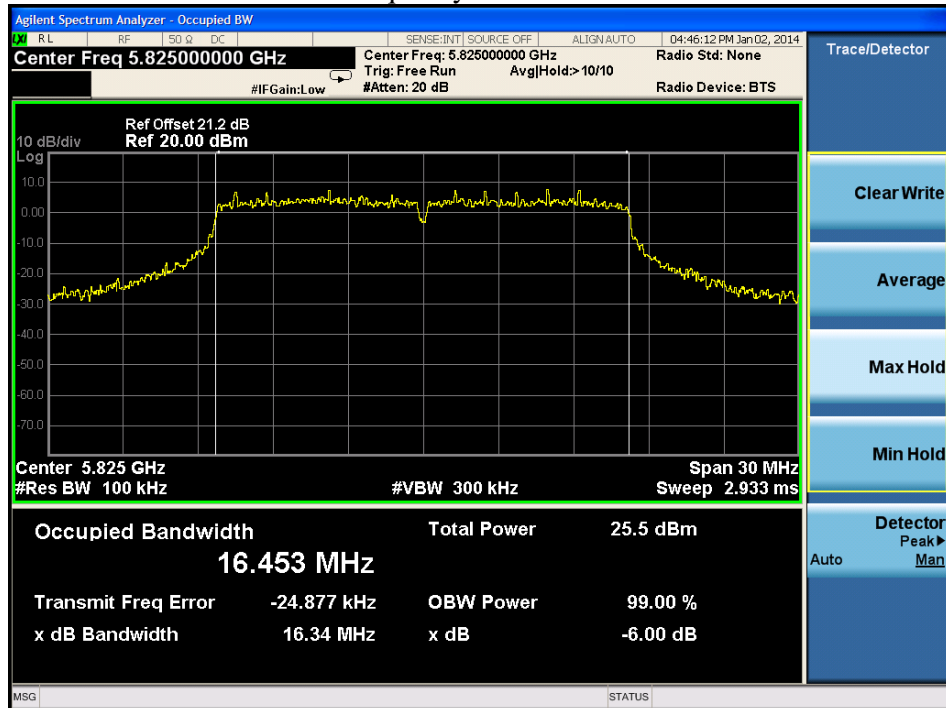
Frequency L – Chain 1



Frequency M – Chain 1



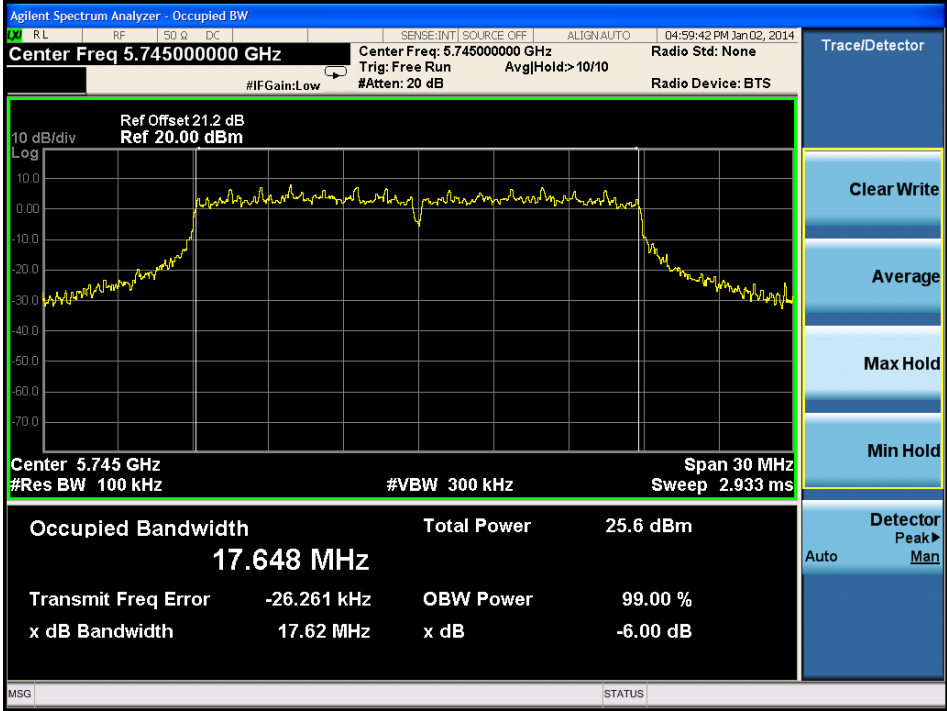
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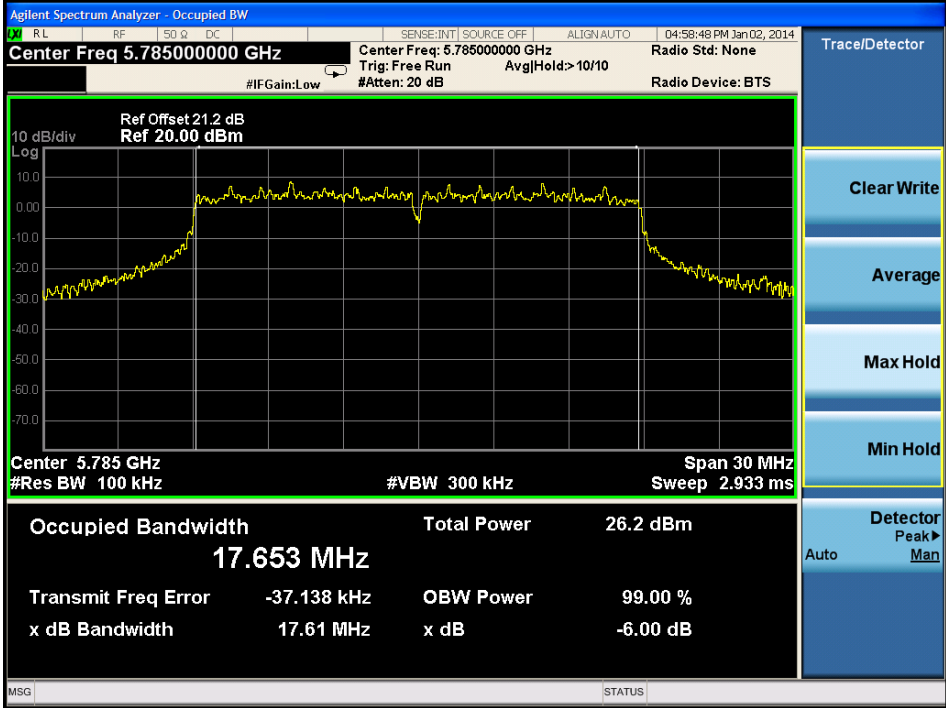
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802.11n20 – chain 0	L	17.62	≥0.5
	M	17.61	
	H	17.58	

Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11n20 – chain 1	L	17.60	≥0.5
	M	17.62	
	H	17.64	

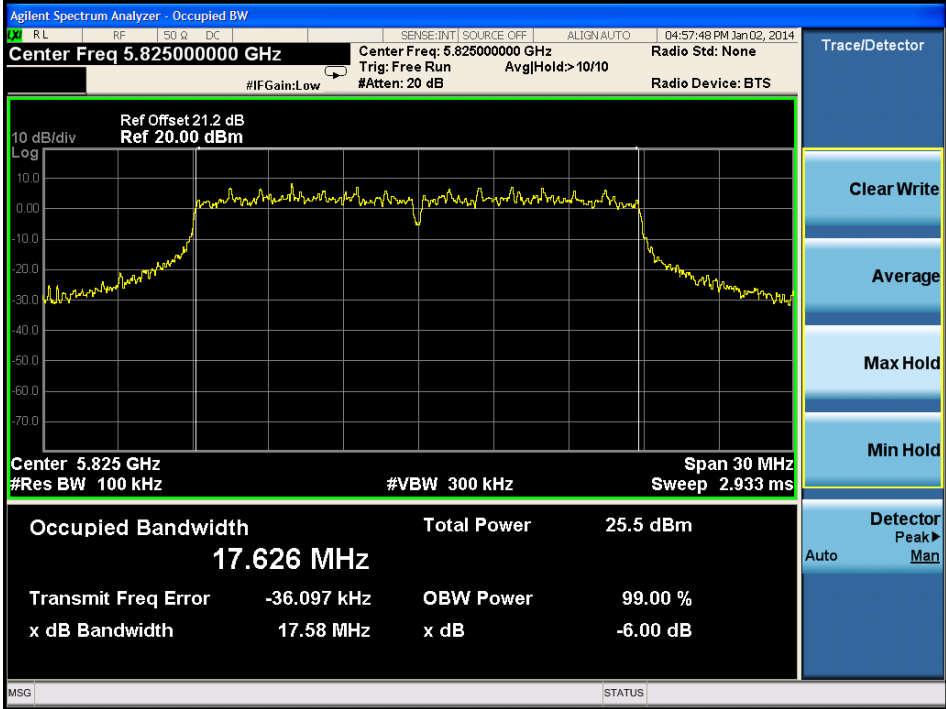
Frequency L – Chain 0



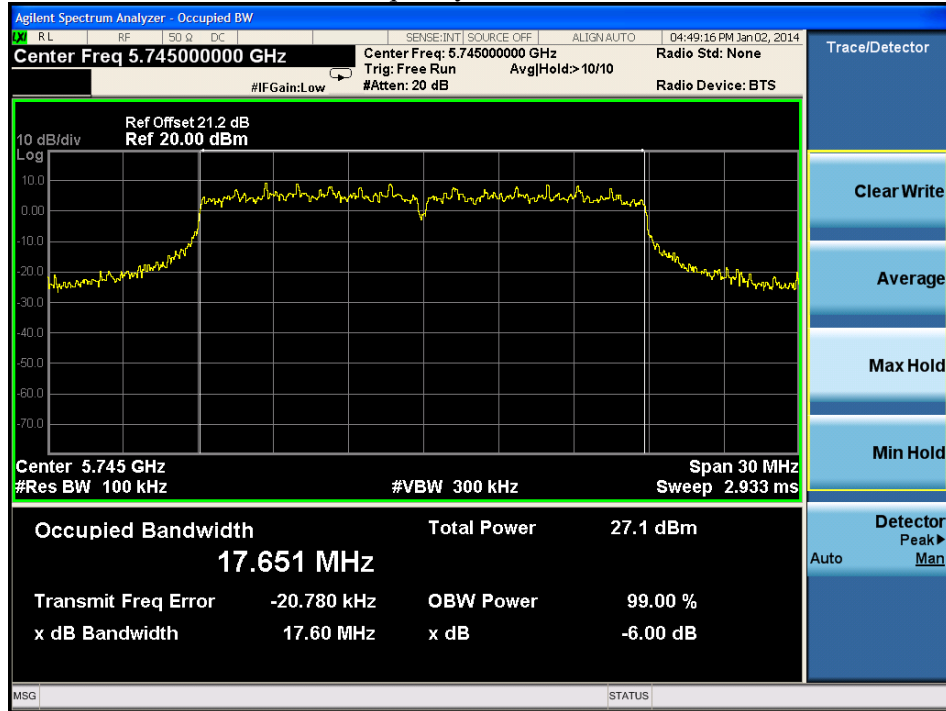
Frequency M – Chain 0



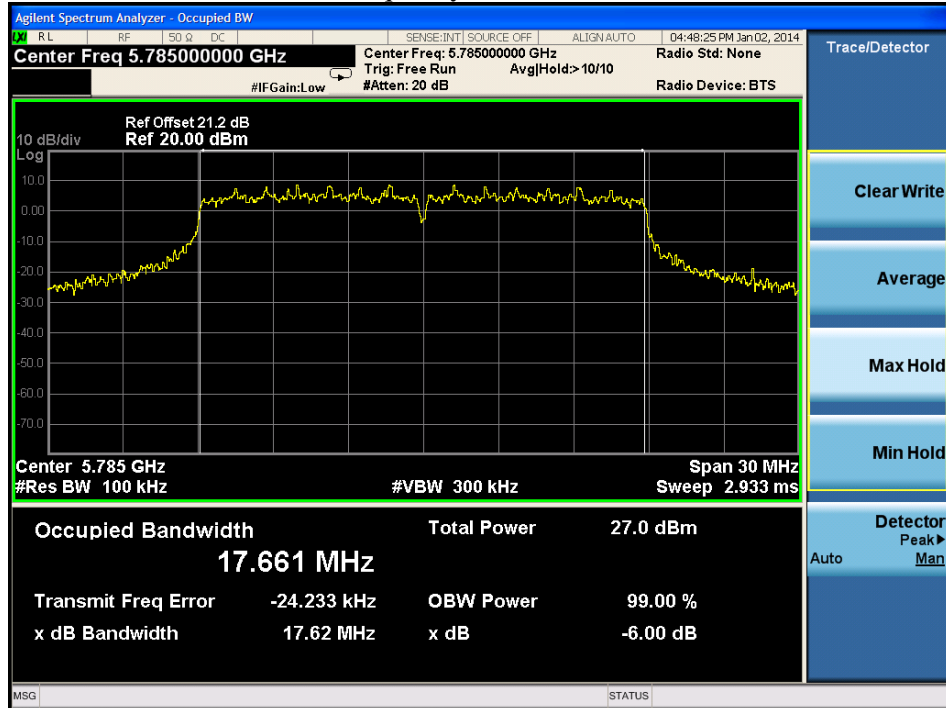
Frequency H – Chain 0



Frequency L – Chain 1

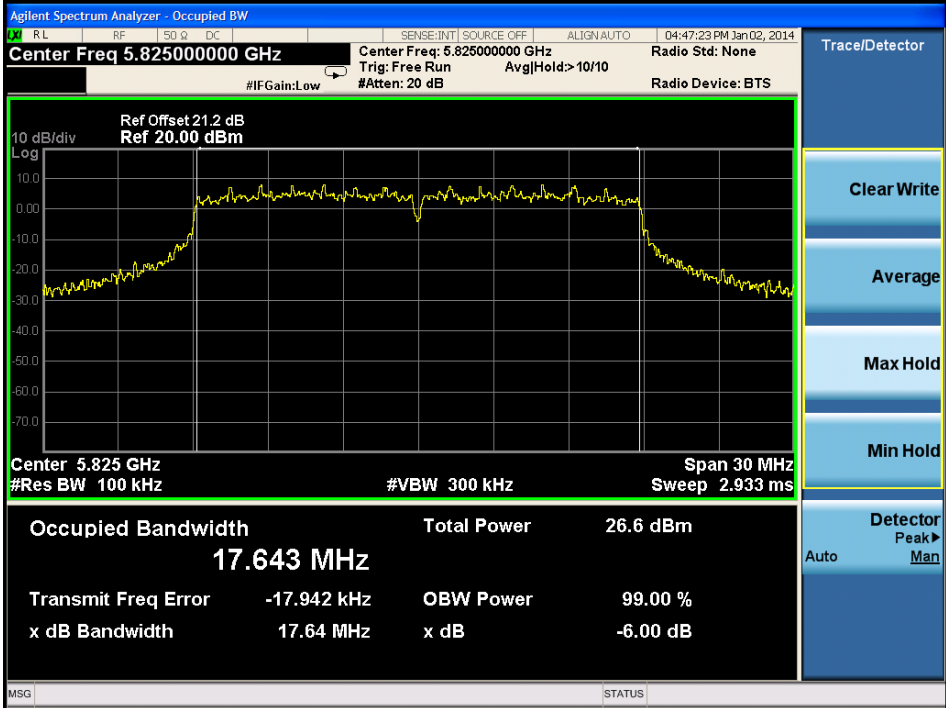


Frequency M – Chain 1





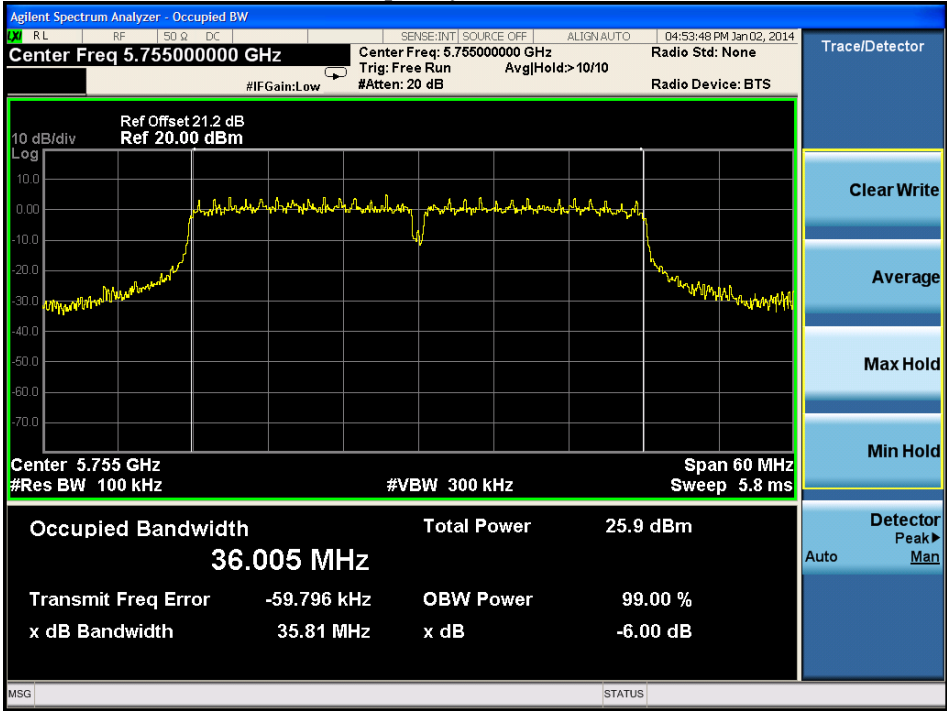
Frequency H – Chain 1



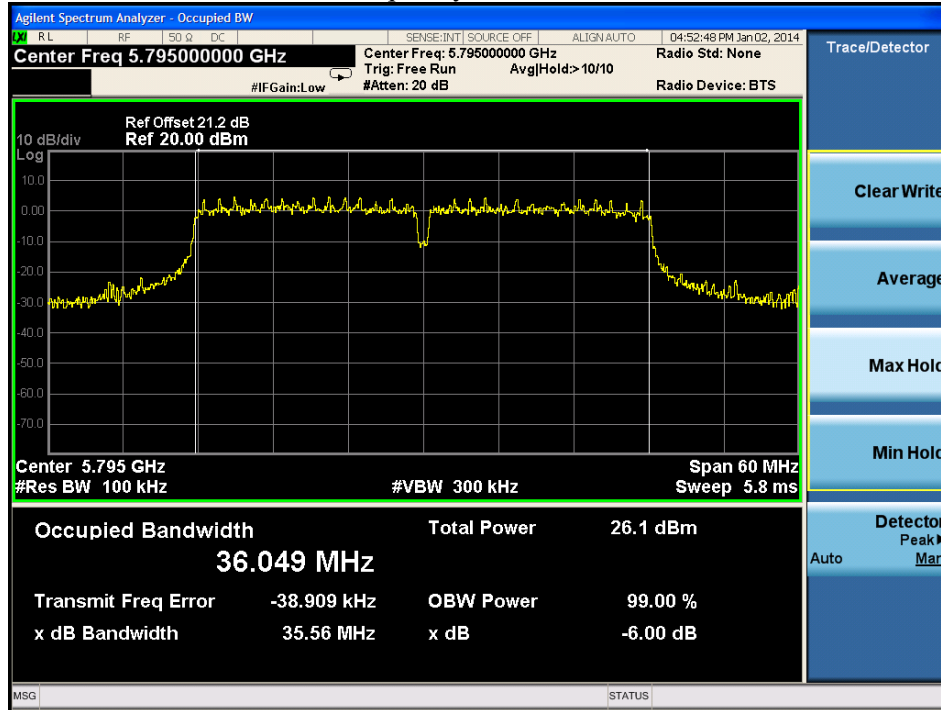
Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11n40 – chain 0	L	35.81	≥0.5
	H	35.56	

Mode	CH	Bandwidth (MHz)	Limit (MHz)
802.11n40 – chain 1	L	36.13	≥0.5
	H	36.13	

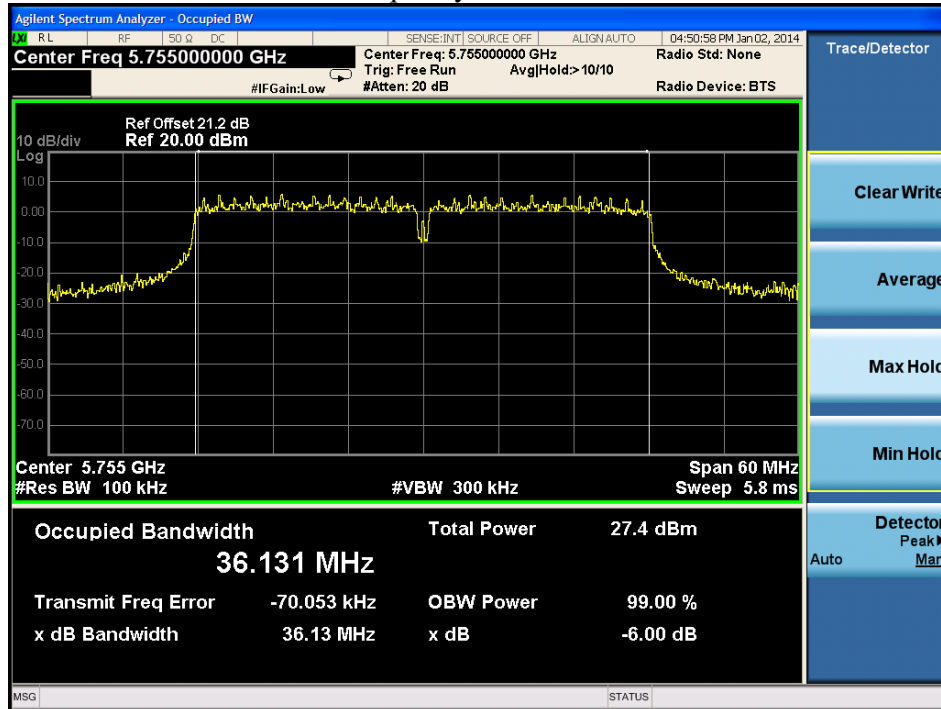
Frequency L – Chain 0



Frequency H – Chain 0

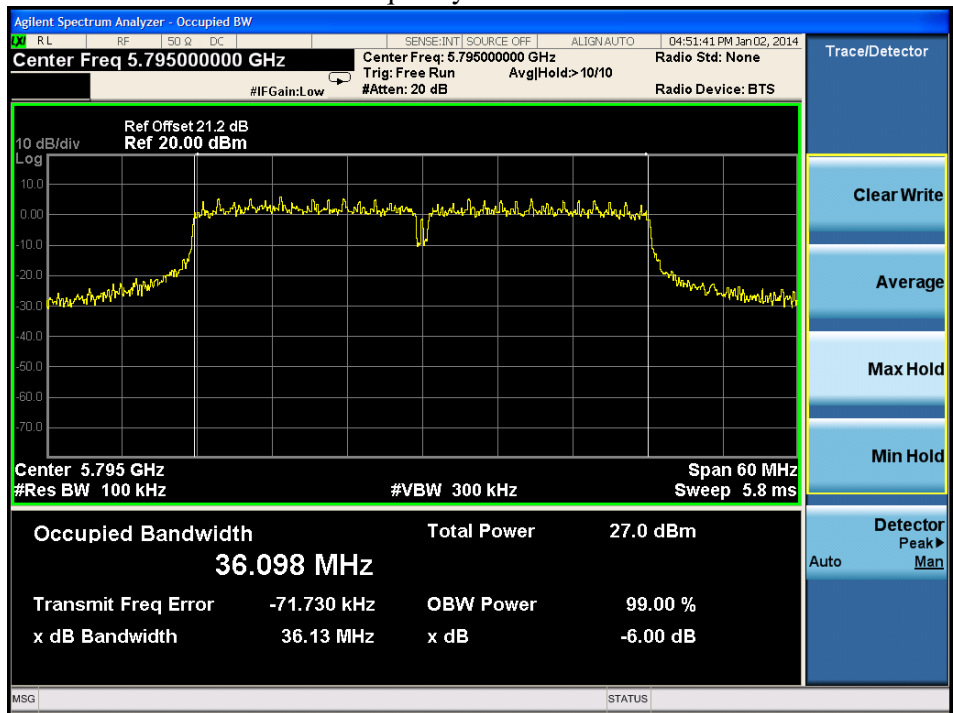


Frequency L – Chain 1





Frequency H – Chain 1



4. Maximum peak output power

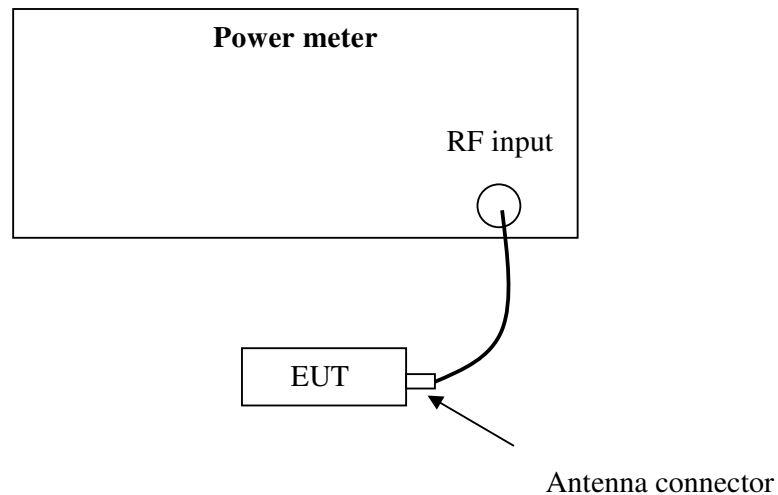
Test result: Pass

4.1 Test limit

- For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt
- For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts
- For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.

If the transmitting antenna of directional gain greater than 6dBi is used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

4.2 Test Configuration



4.3 Test procedure and test setup

The EUT was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance v03r01” for compliance to FCC 47CFR 15.247 requirements (clause 9.1.3).

4.4 Test protocol

Temperature : 25 °C

Relative Humidity : 55 %

Mode	Freq. (MHz)	Cable loss	Reading (dBm)		Total Peak power (dBm)	Limit (dBm)	Margin (dB)
			Port 0	Port 1			
802. 11b	2412	20.9	20.11	19.65	22.90	30.00	7.10
	2437	20.9	20.64	20.62	23.64	30.00	6.36
	2462	20.9	20.85	20.43	23.66	30.00	6.34
802. 11g	2412	20.9	24.17	24.05	27.12	30.00	2.88
	2437	20.9	26.14	25.95	29.06	30.00	0.94
	2462	20.9	24.24	24.07	27.17	30.00	2.83
802. 11n20	2412	20.9	24.45	24.33	27.40	30.00	2.60
	2437	20.9	25.90	25.86	28.89	30.00	1.11
	2462	20.9	24.72	24.46	27.60	30.00	2.40
802. 11n40	2422	20.9	23.62	23.48	26.56	30.00	3.44
	2437	20.9	25.87	25.80	28.85	30.00	1.15
	2452	20.9	20.94	20.78	23.87	30.00	6.13

Mode	Freq. (MHz)	Cable loss	Reading (dBm)		Total Peak power (dBm)	Limit (dBm)	Margin (dB)
			Port 0	Port 1			
802. 11a	5745	21.2	25.08	25.48	28.29	30.00	1.71
	5785	21.2	24.93	25.31	28.13	30.00	1.87
	5825	21.2	24.92	25.01	27.98	30.00	2.02
802. 11n20	5745	21.2	24.89	25.15	28.03	30.00	1.97
	5785	21.2	25.15	25.41	28.29	30.00	1.71
	5825	21.2	24.84	25.12	27.99	30.00	2.01
802. 11n40	5755	21.2	25.31	25.43	28.38	30.00	1.62
	5795	21.2	25.34	25.28	28.32	30.00	1.68

The maximum EIRP of the EUT = 29.06dBm + 3.9dBi = 32.96dBm = 1857.80mW which is lower than the EIRP limit of RSS-210.

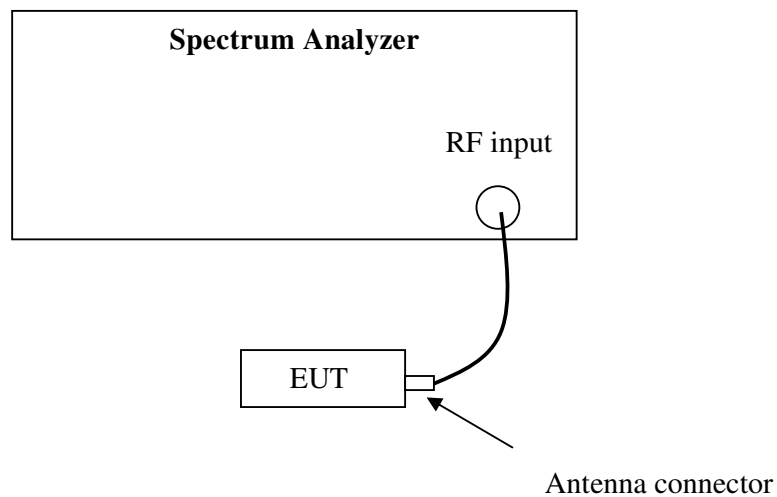
5. Power spectrum density

Test result: Pass

5.1 Test limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

5.2 Test Configuration



5.3 Test procedure and test setup

The power output per FCC §15.247(e) was tested according to DTS test procedure of “KDB558074 D01 DTS Meas Guidance v03r01” (clause 10.2) for compliance to FCC 47CFR 15.247 requirements.



5.4 Test Protocol

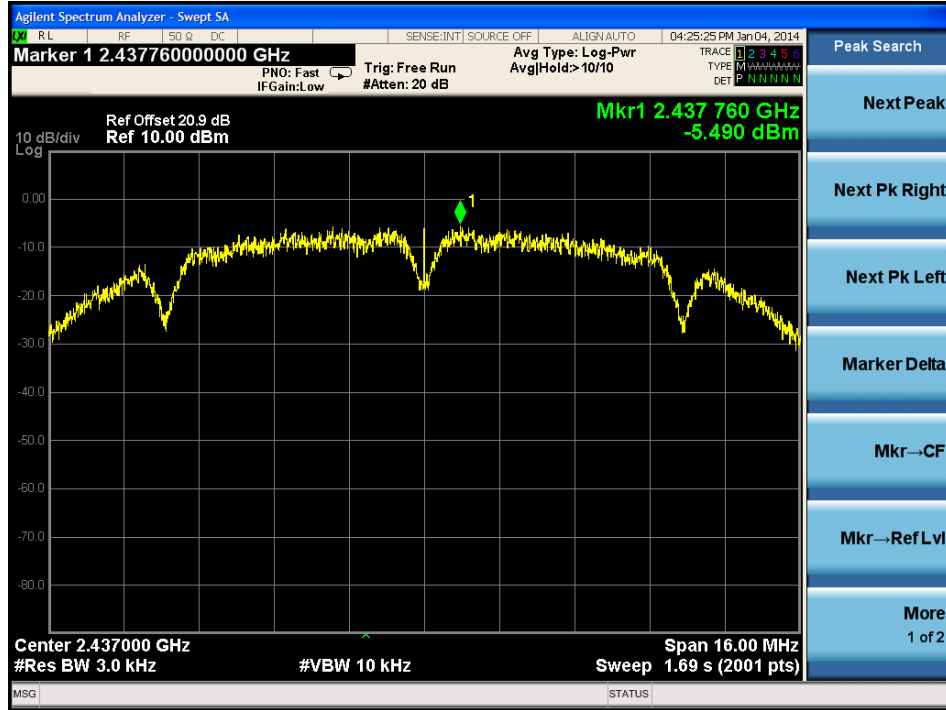
Temperature : 25 °C
Relative Humidity: 55 %

Mode	CH	Cable loss (dB)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)
			Port 0	Port 1		
802.11b	L	20.9	-5.845	-5.954	-2.890	≤8.00
	M	20.9	-5.490	-5.532	-2.500	
	H	20.9	-5.081	-5.565	-2.310	

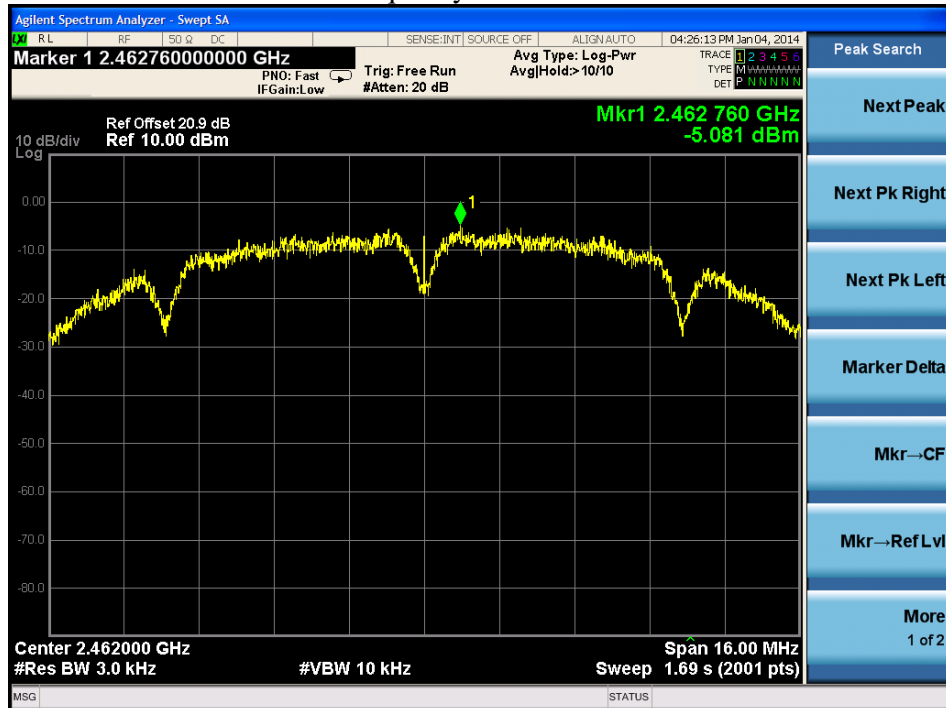
Frequency L – Chain 0



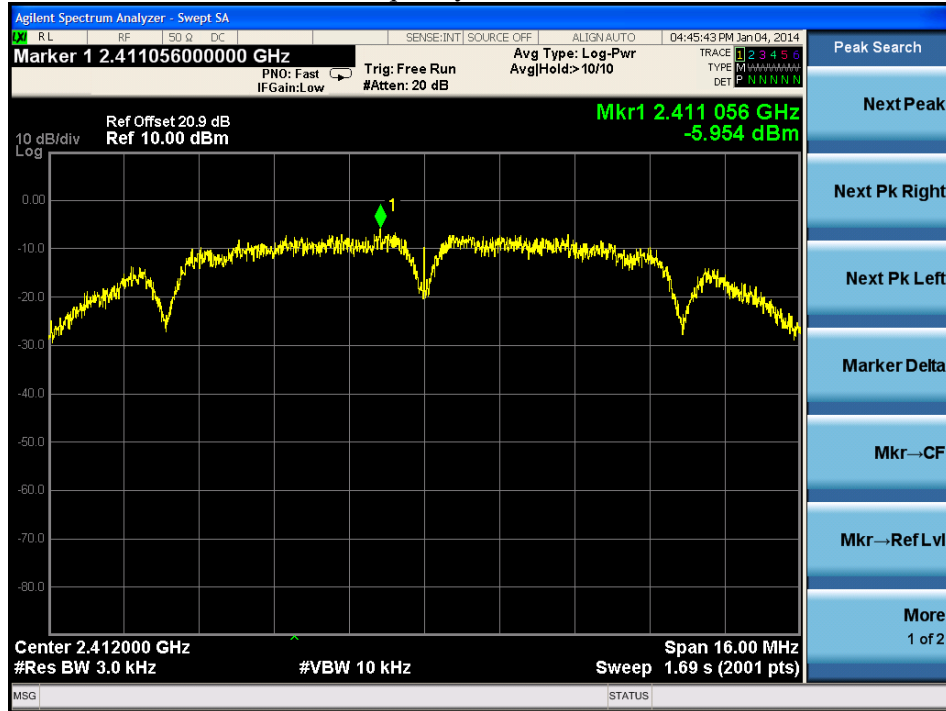
Frequency M – Chain 0



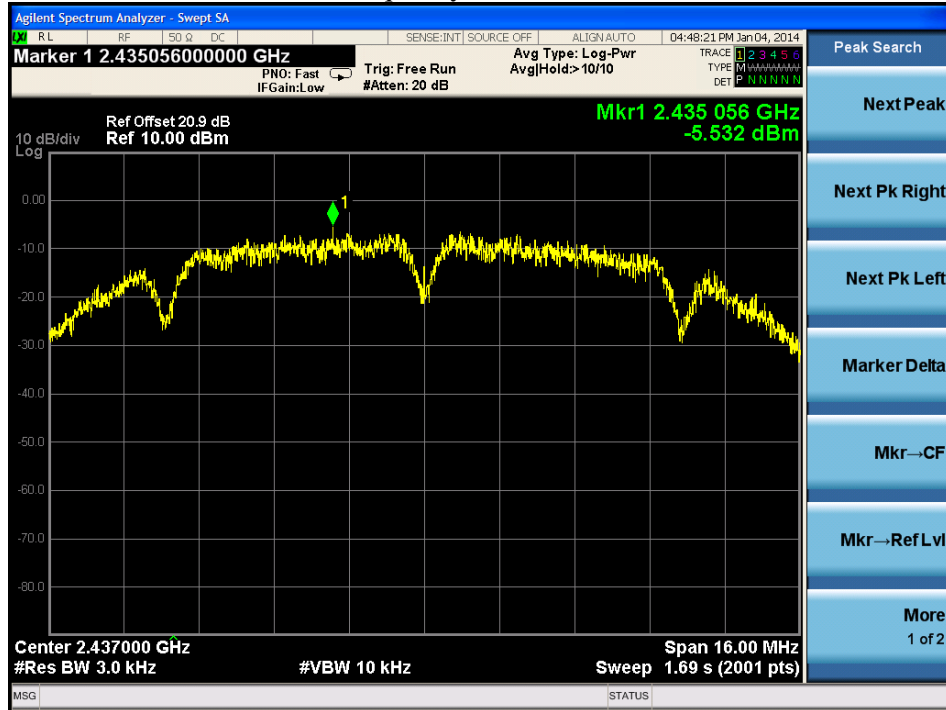
Frequency H – Chain 0



Frequency L – Chain 1



Frequency M – Chain 1





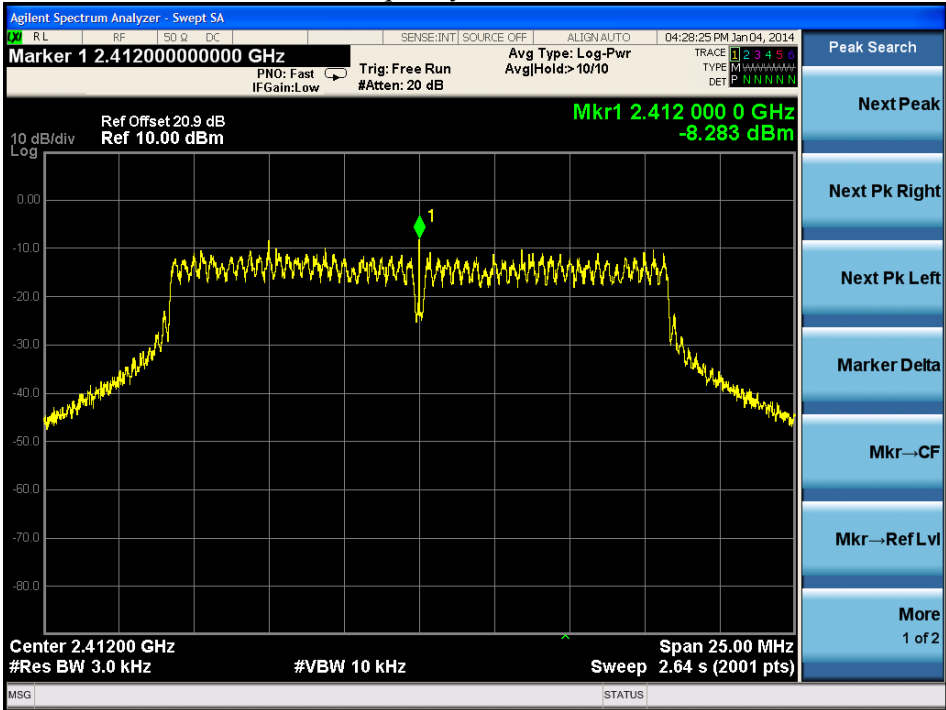
Frequency H – Chain 1



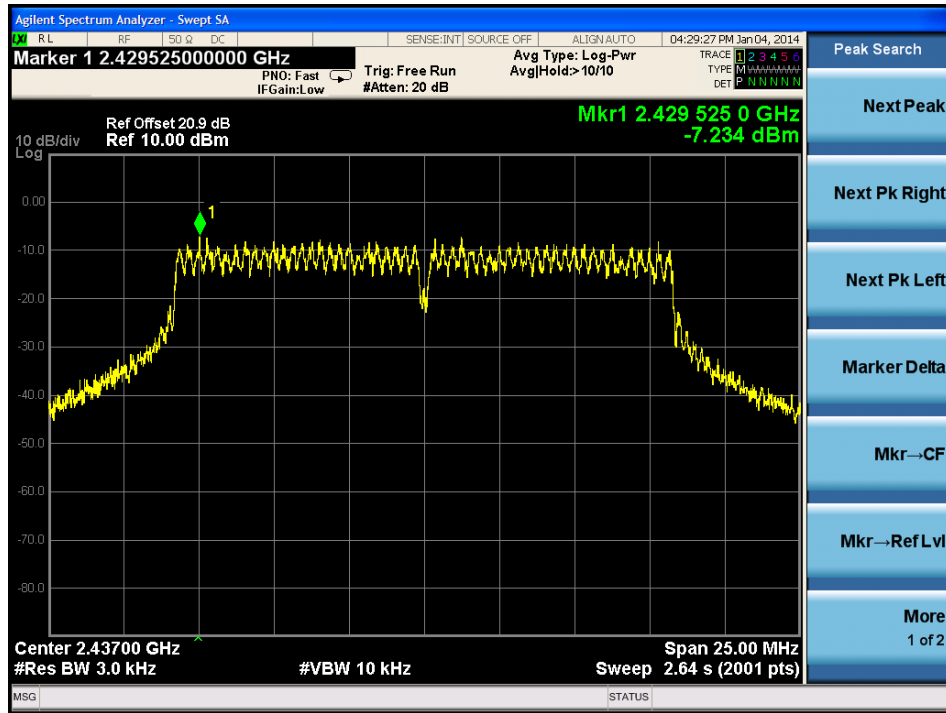


Mode	CH	Cable loss (dB)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)
			Port 0	Port 1		
802.11g	L	20.9	-8.283	-10.083	-6.080	≤8.00
	M	20.9	-7.234	-5.608	-3.340	
	H	20.9	-9.604	-8.998	-6.280	

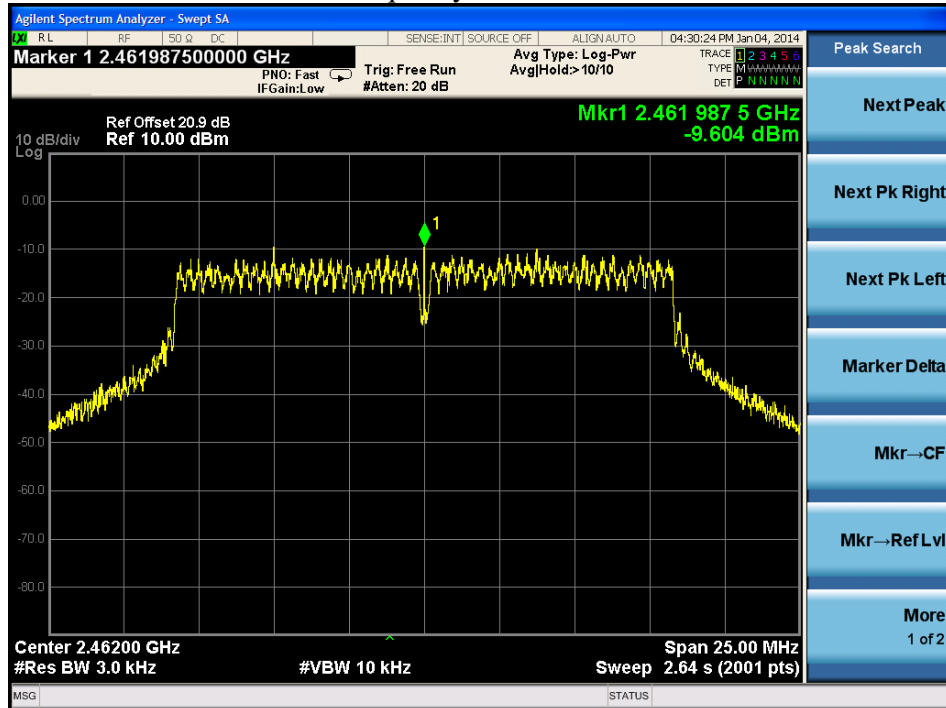
Frequency L – Chain 0



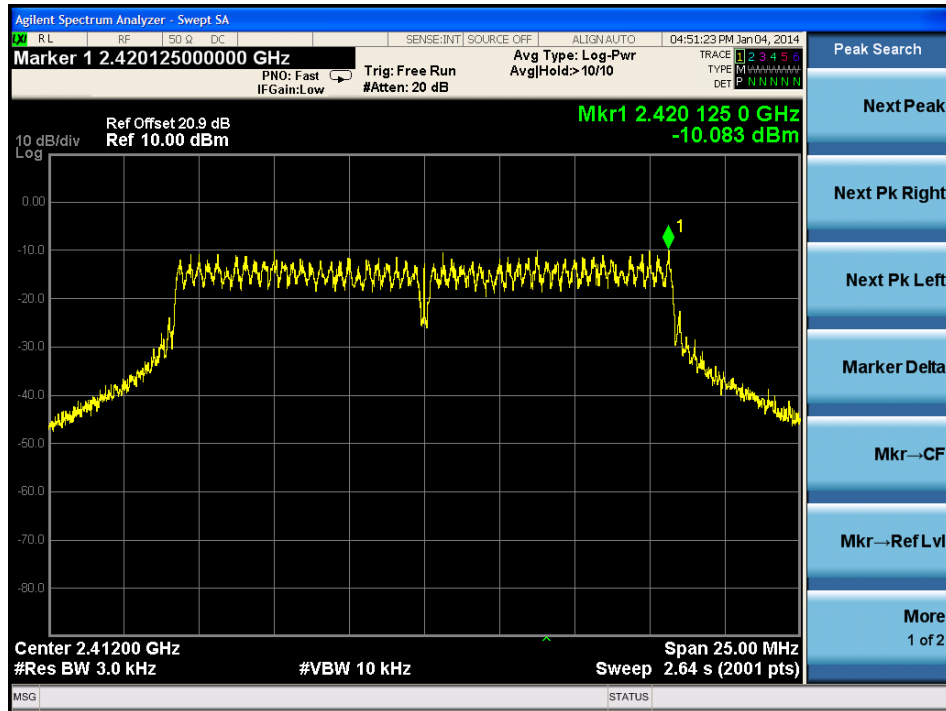
Frequency M – Chain 0



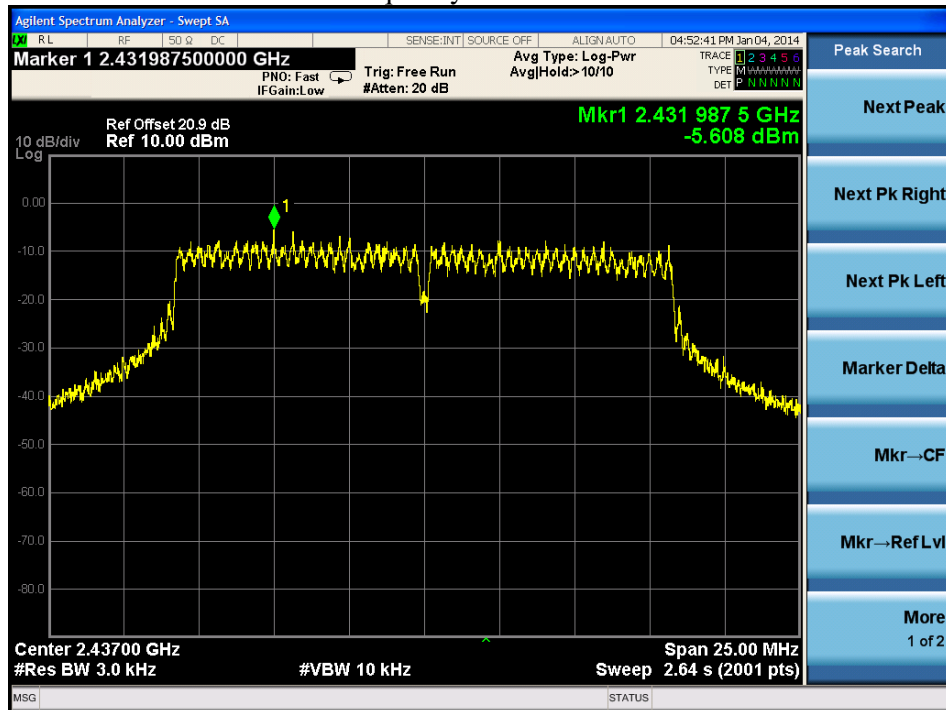
Frequency H – Chain 0



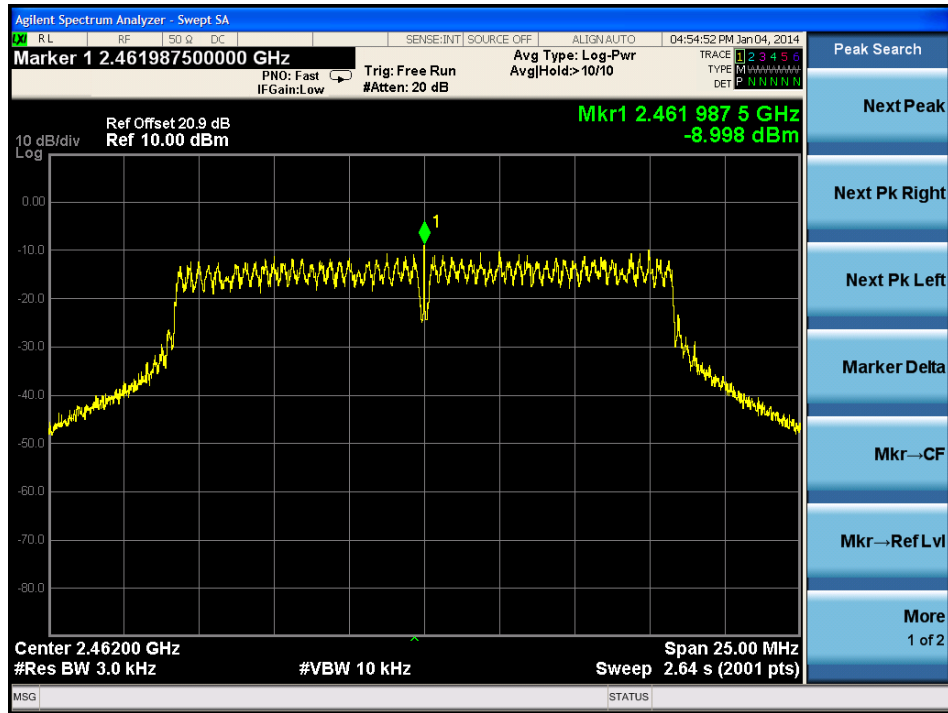
Frequency L – Chain 1



Frequency M – Chain 1



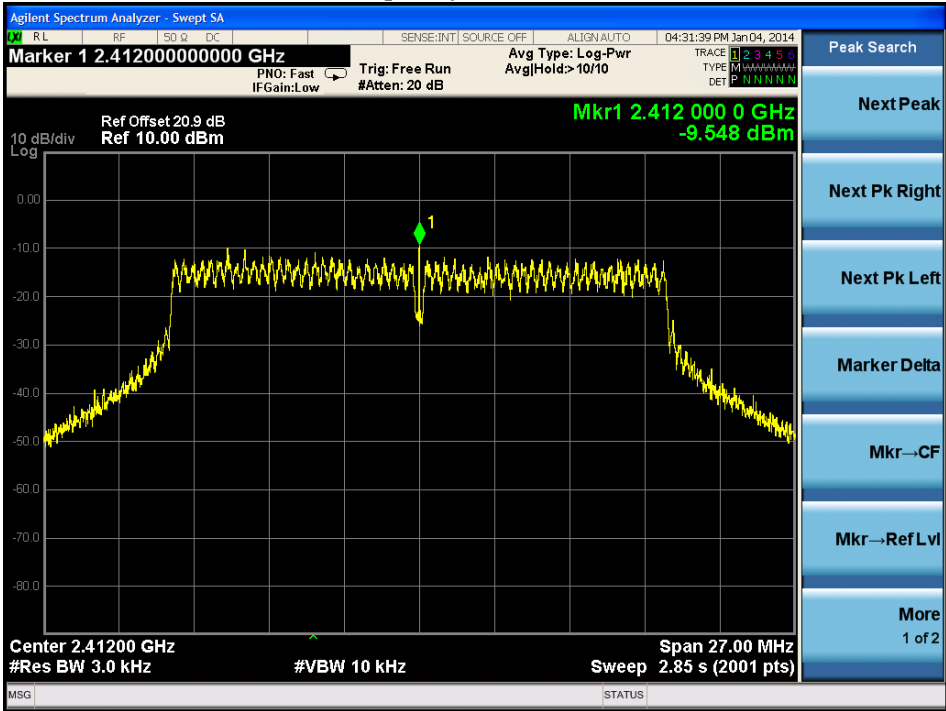
Frequency H – Chain 1



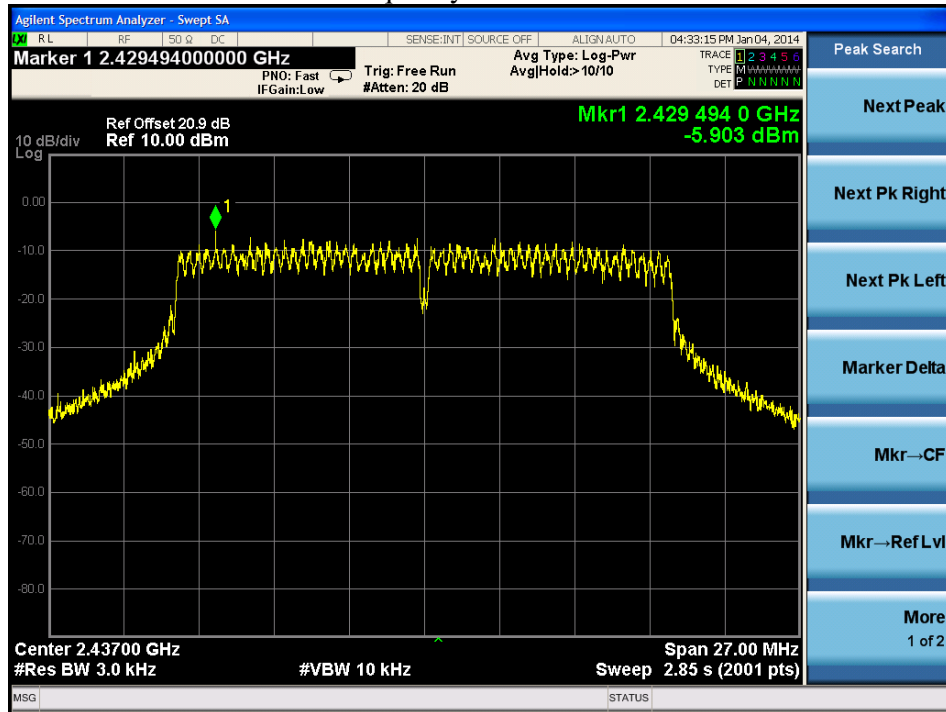


Mode	CH	Cable loss (dB)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)
			Port 0	Port 1		
802.11n 20	L	20.9	-9.548	-10.571	-7.020	≤8.00
	M	20.9	-5.903	-6.702	-3.270	
	H	20.9	-10.708	-9.564	-7.090	

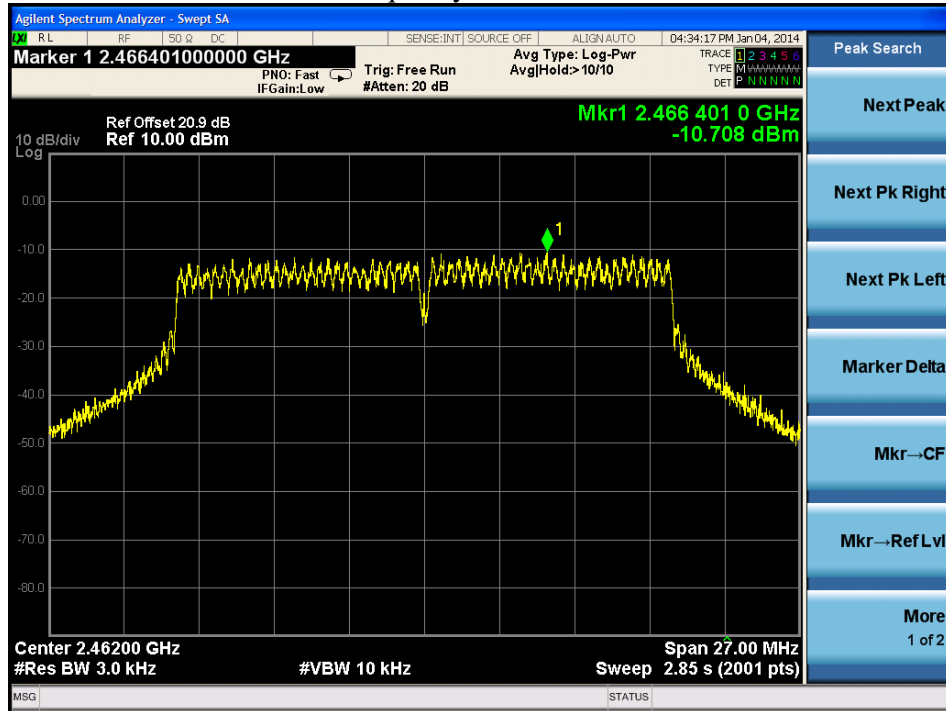
Frequency L – Chain 0



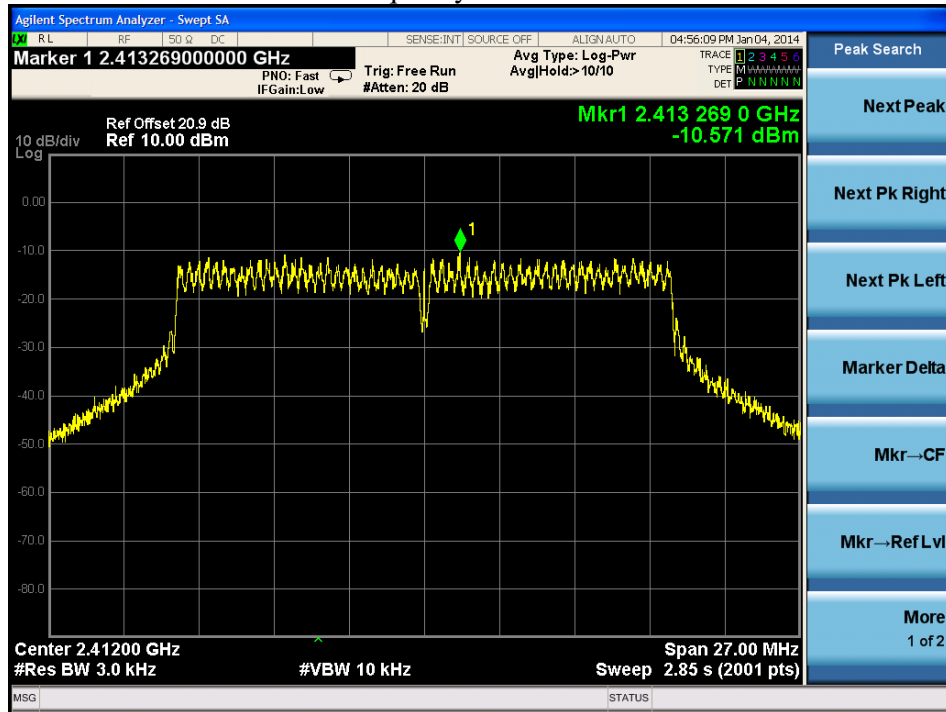
Frequency M – Chain 0



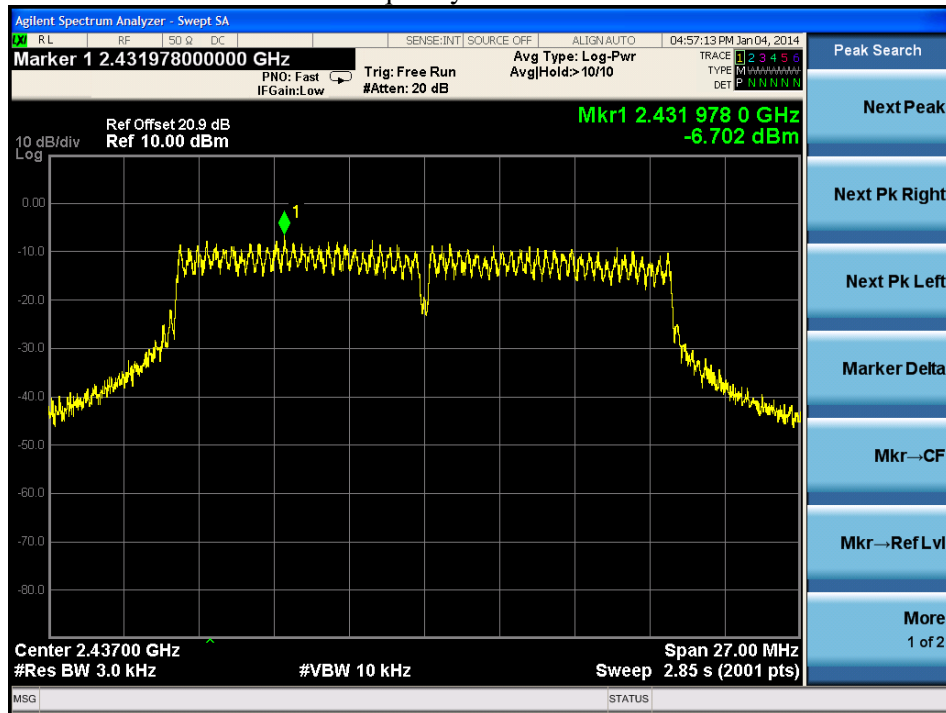
Frequency H – Chain 0



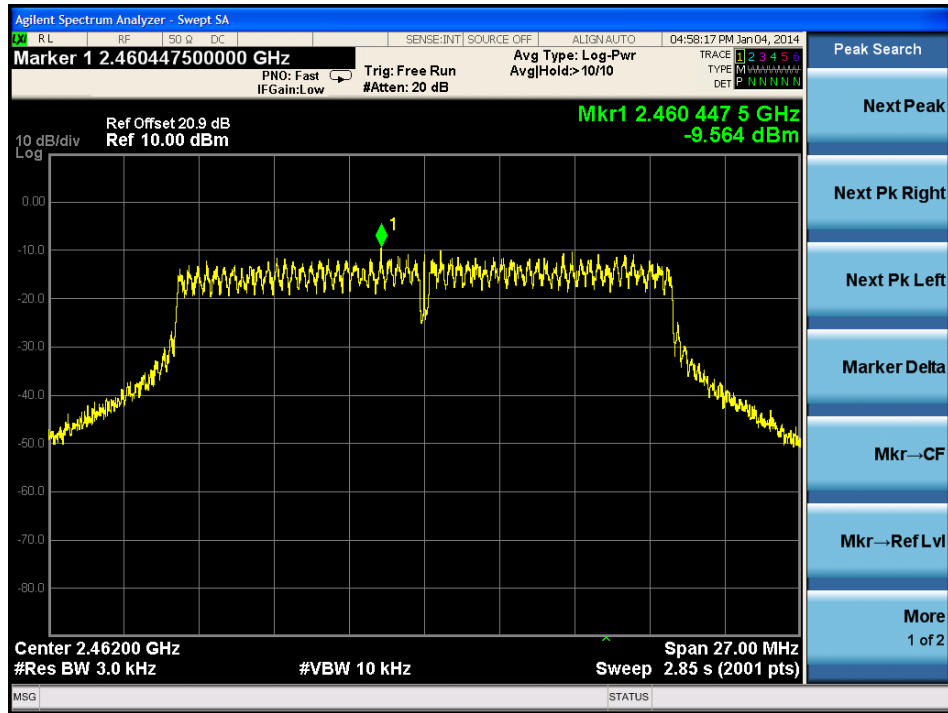
Frequency L – Chain 1



Frequency M – Chain 1

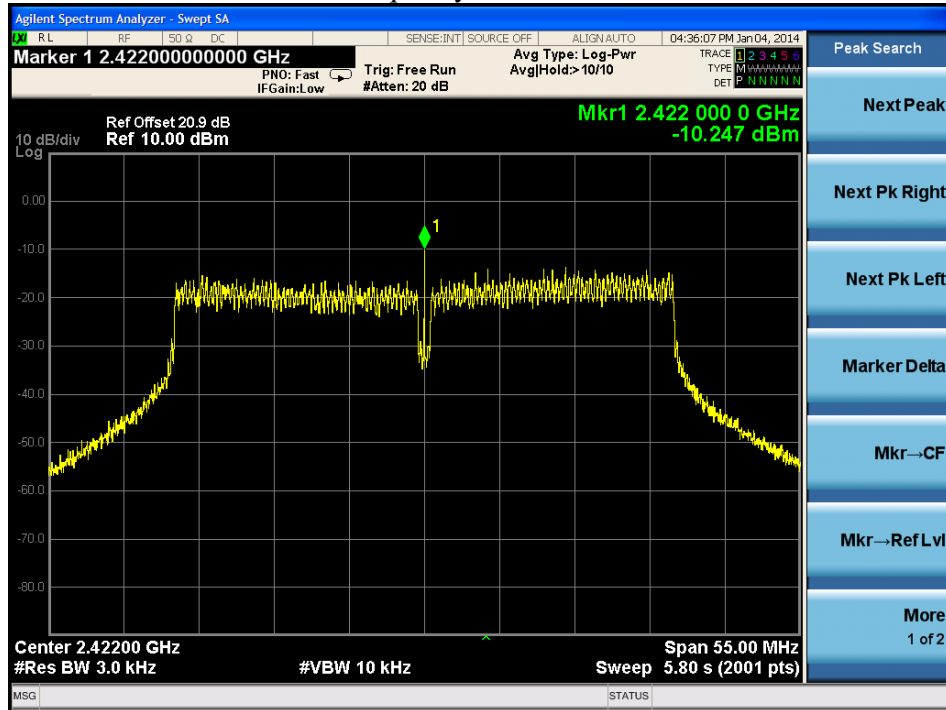


Frequency H – Chain 1

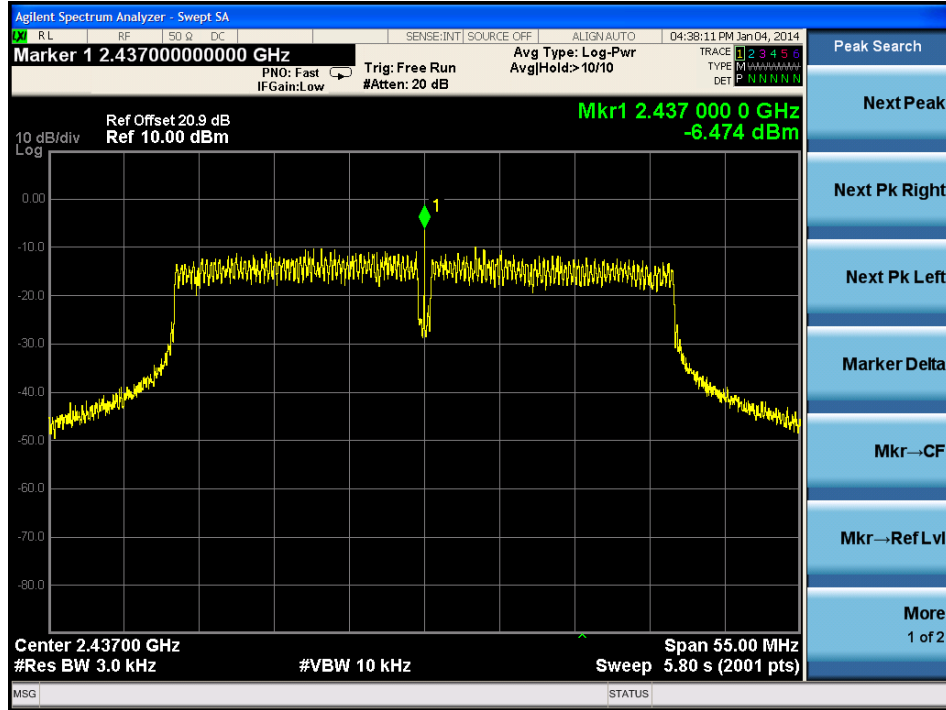


Mode	CH	Cable loss (dB)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)
			Port 0	Port 1		
802.11n40	L	20.9	-10.247	-10.874	-7.540	≤8.00
	M	20.9	-6.474	-9.674	-4.780	
	H	20.9	-16.372	-16.934	-13.630	

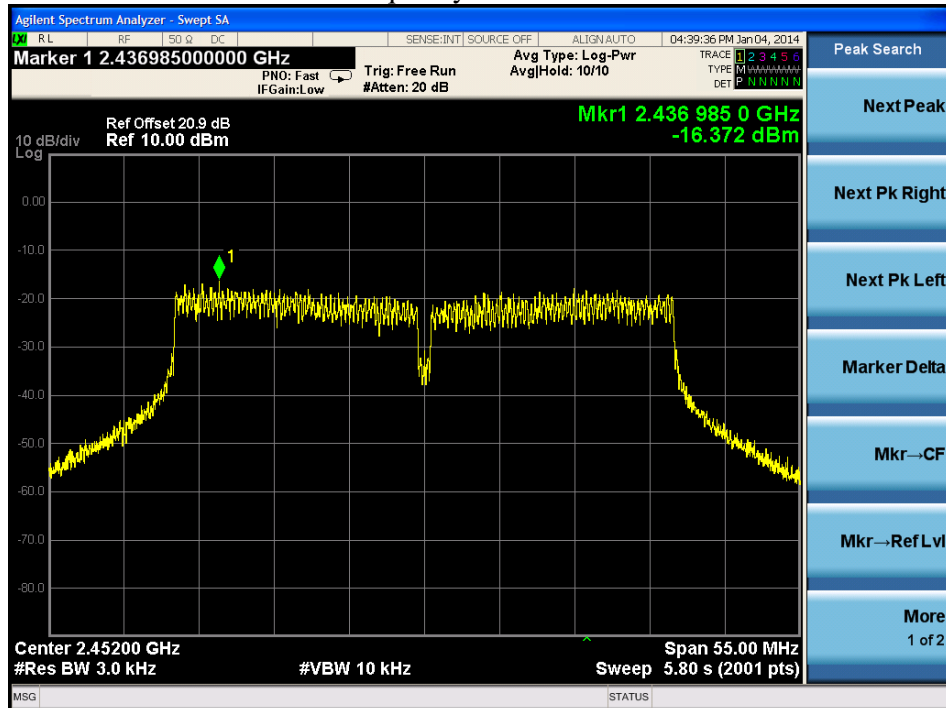
Frequency L – Chain 0



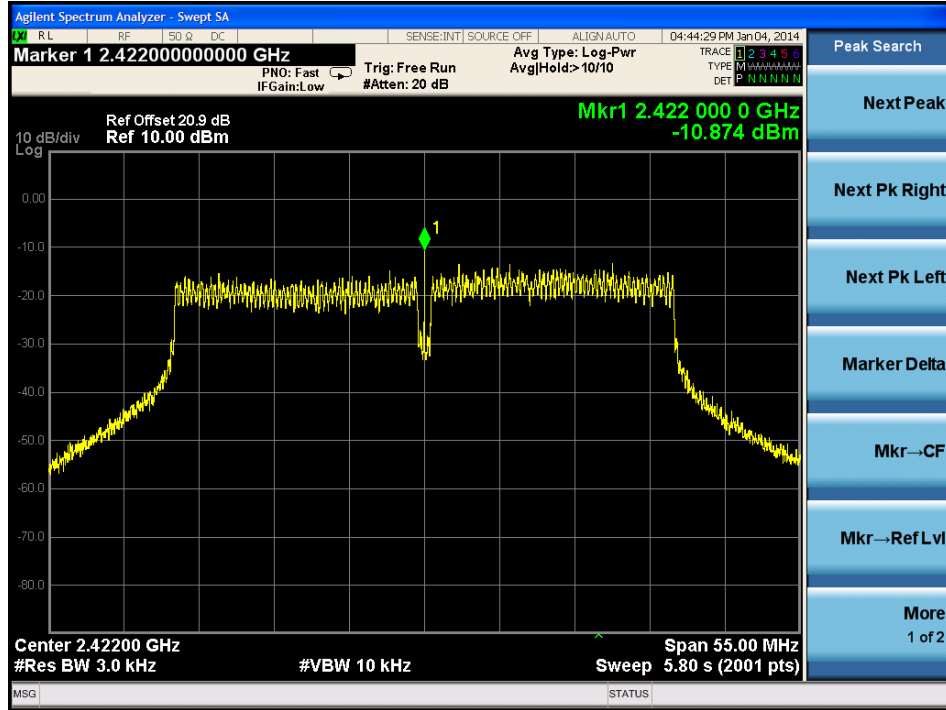
Frequency M – Chain 0



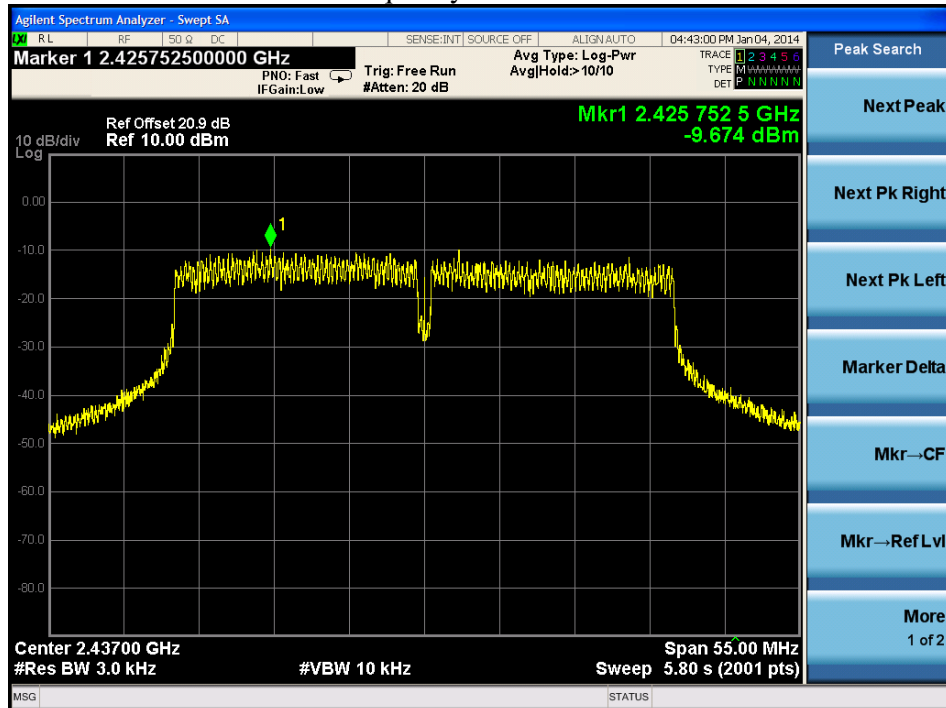
Frequency H – Chain 0



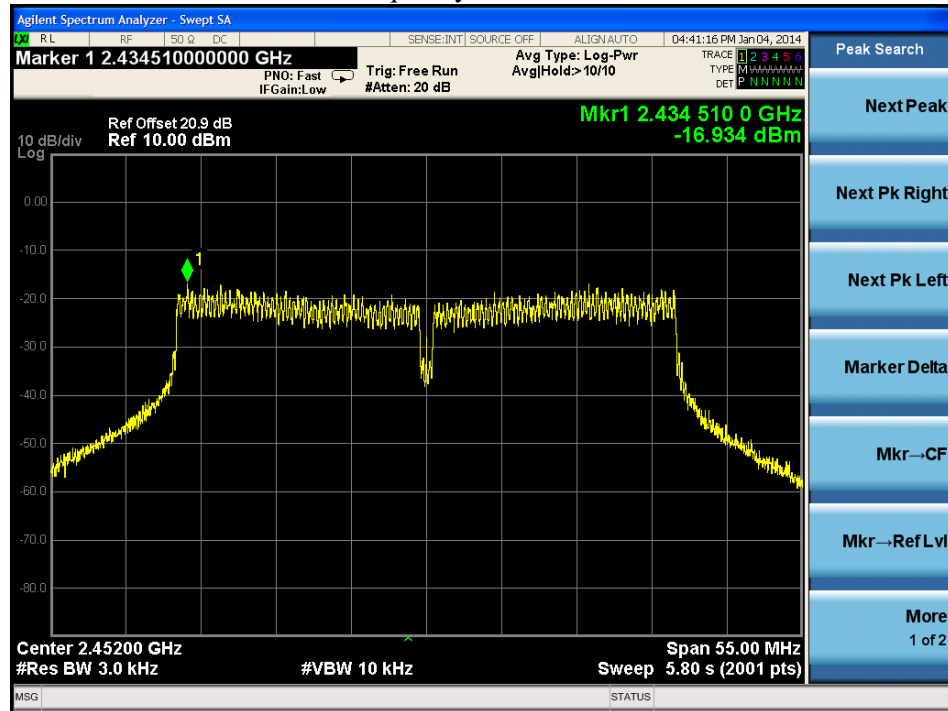
Frequency L – Chain 1



Frequency M – Chain 1

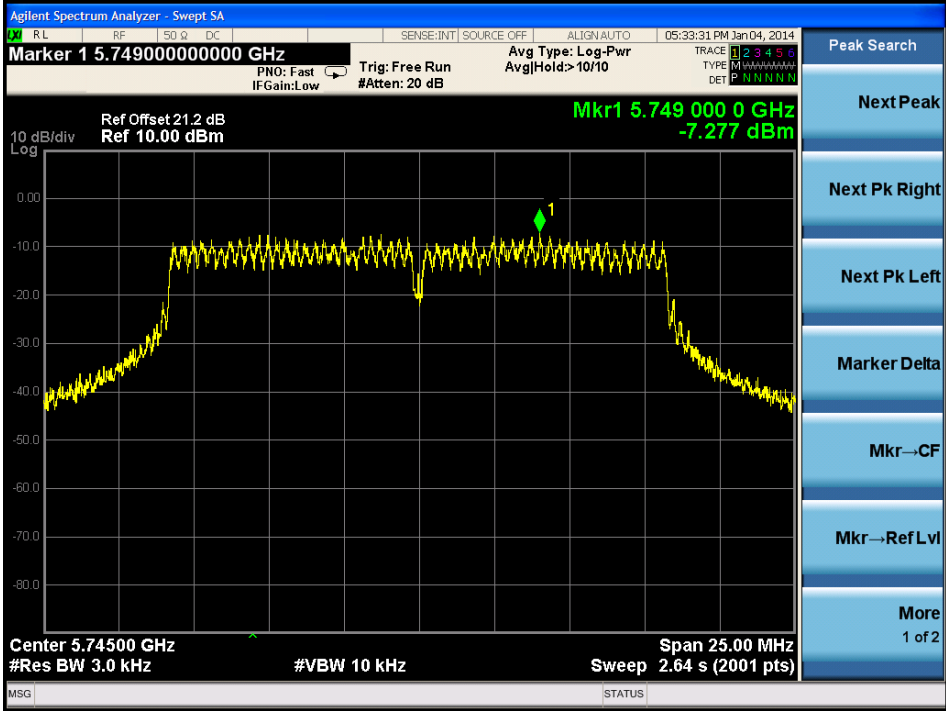


Frequency H – Chain 1

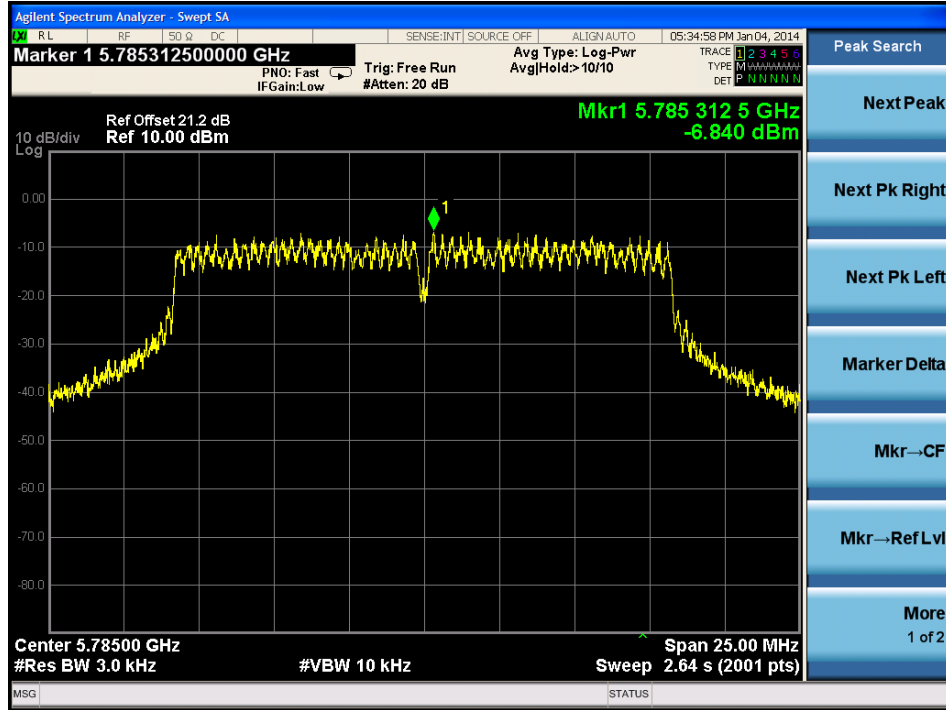


Mode	CH	Cable loss (dB)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)
			Port 0	Port 1		
802.11a	L	20.9	-7.277	-5.239	-3.130	≤8.00
	M	20.9	-6.840	-6.113	-3.450	
	H	20.9	-7.383	-6.810	-4.080	

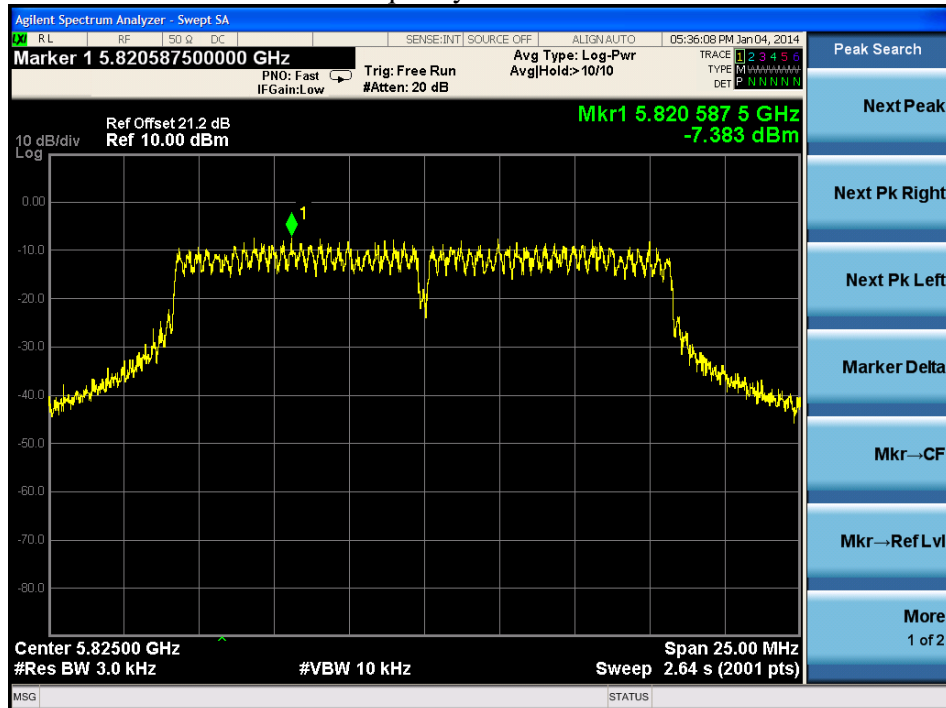
Frequency L – Chain 0



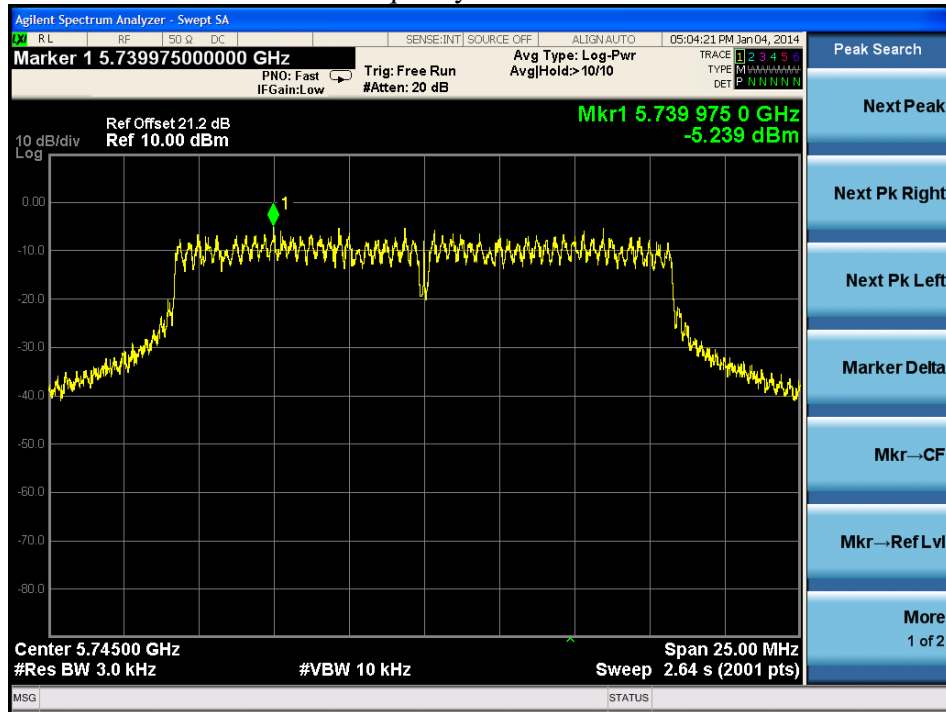
Frequency M – Chain 0



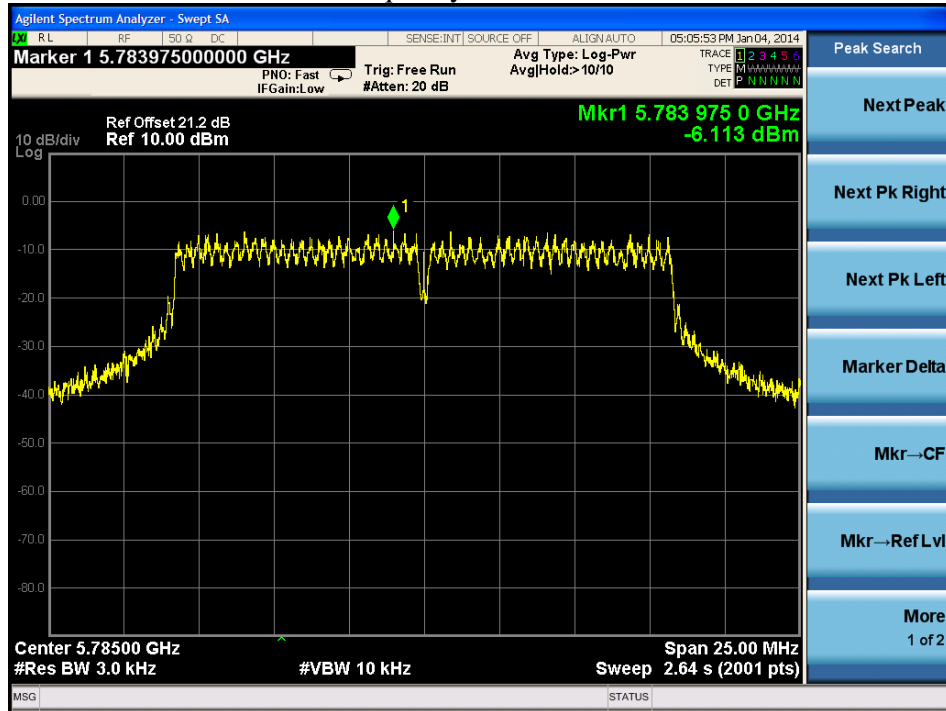
Frequency H – Chain 0



Frequency L – Chain 1

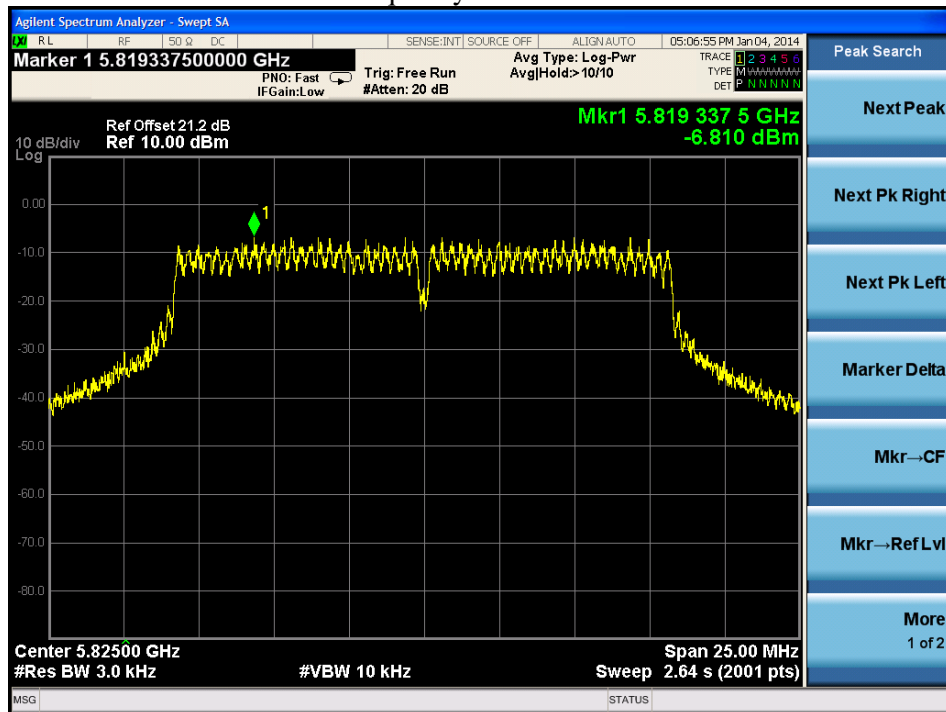


Frequency M – Chain 1



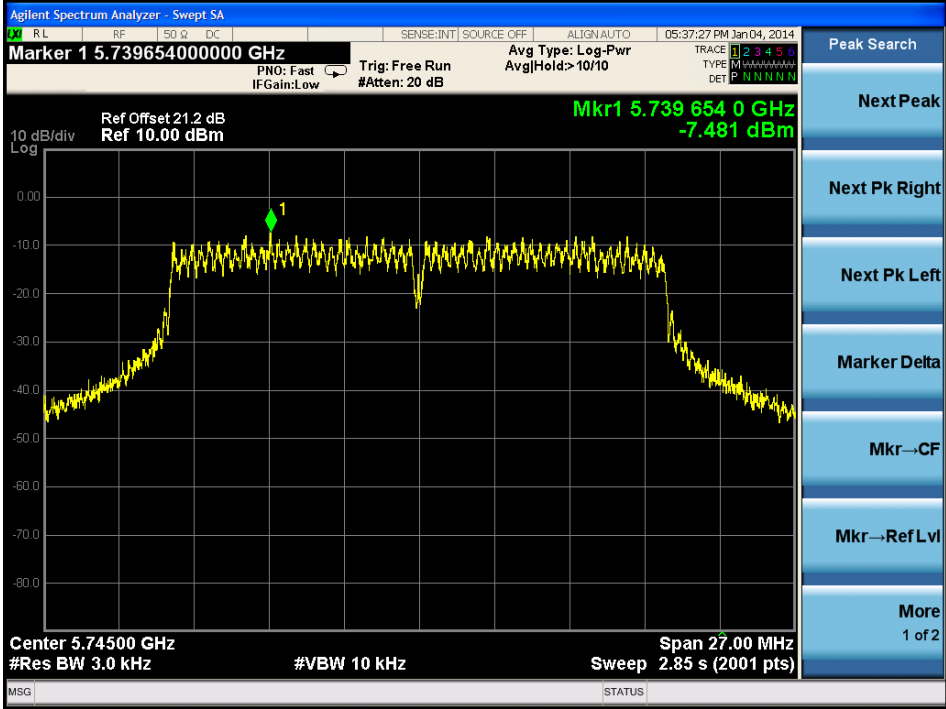


Frequency H – Chain 1

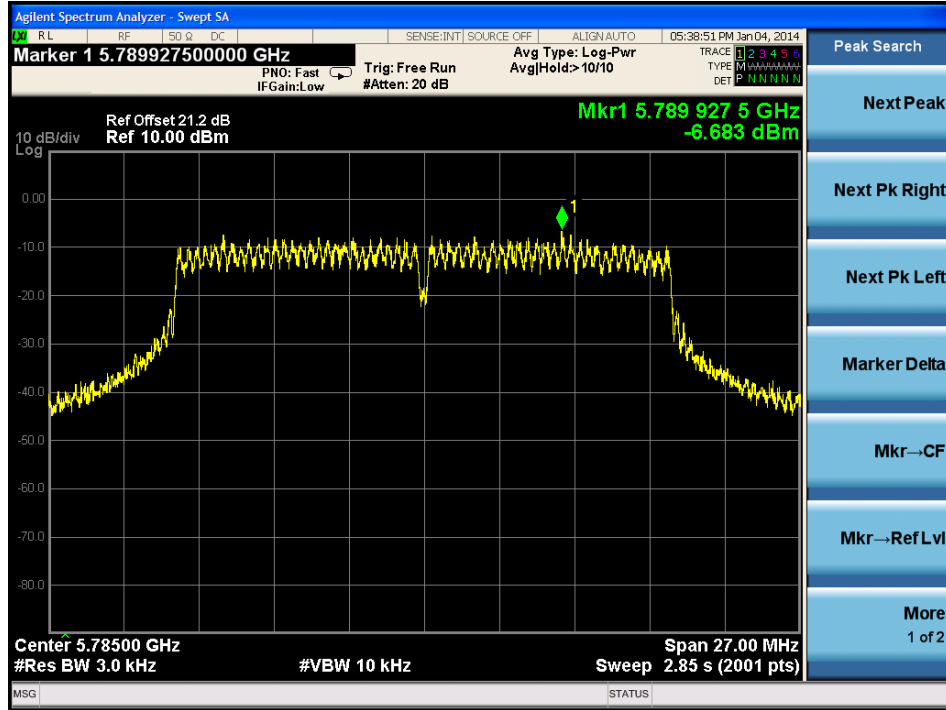


Mode	CH	Cable loss (dB)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)
			Port 0	Port 1		
802.11n20	L	20.9	-7.481	-6.852	-4.140	≤8.00
	M	20.9	-6.683	-6.090	-3.370	
	H	20.9	-7.590	-6.198	-3.830	

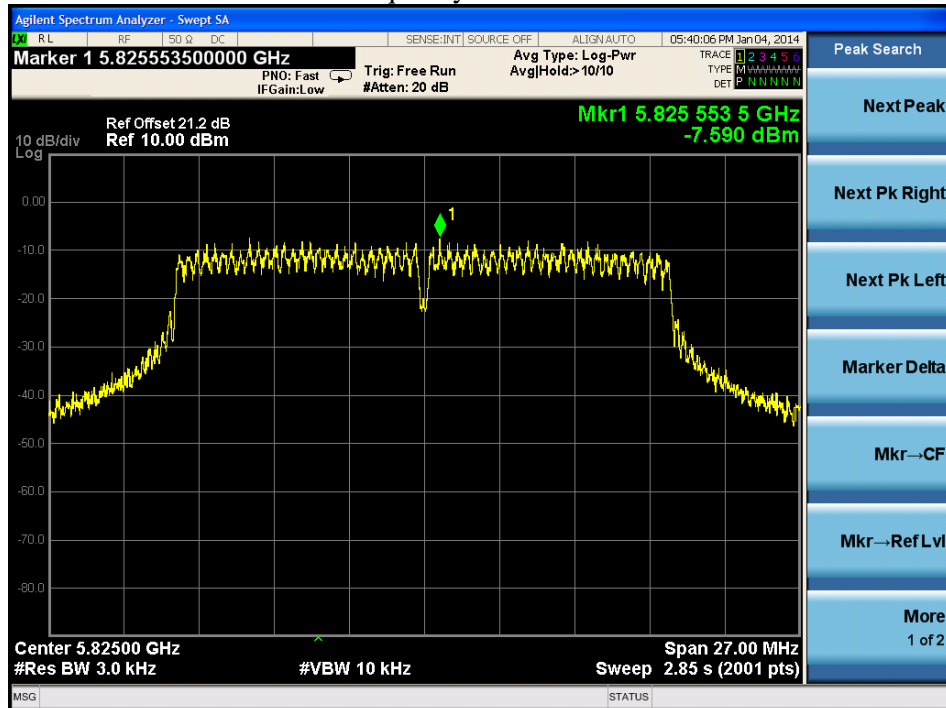
Frequency L – Chain 0



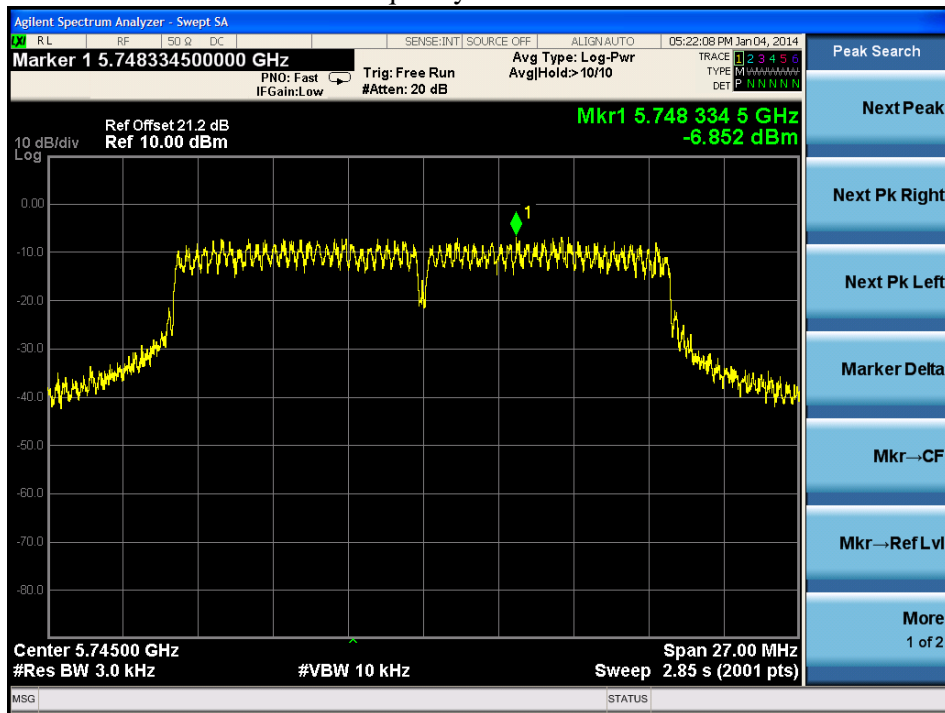
Frequency M – Chain 0



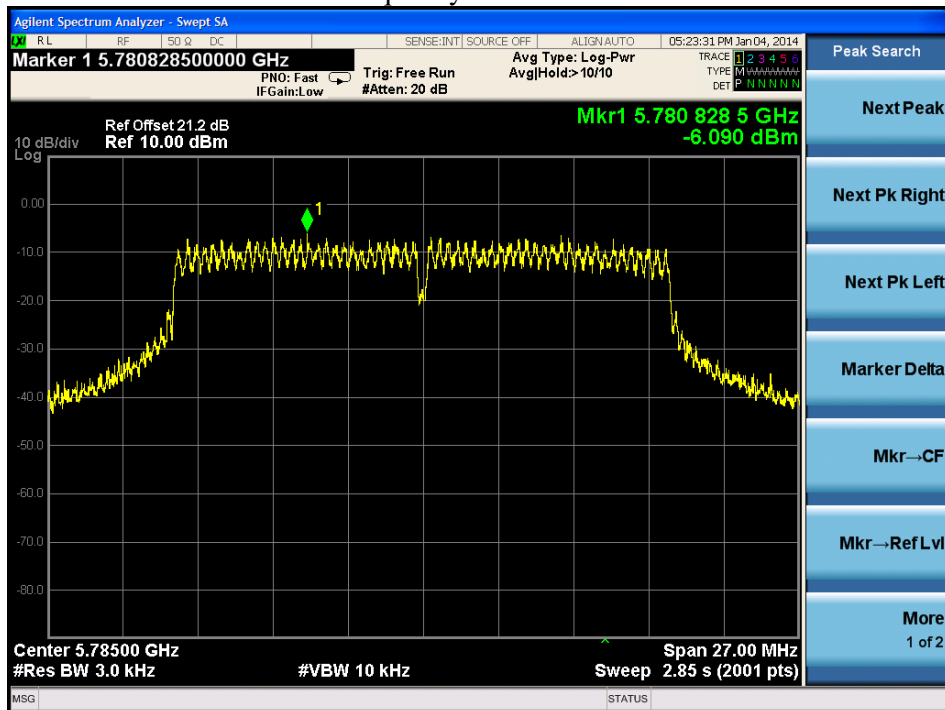
Frequency H – Chain 0



Frequency L – Chain 1

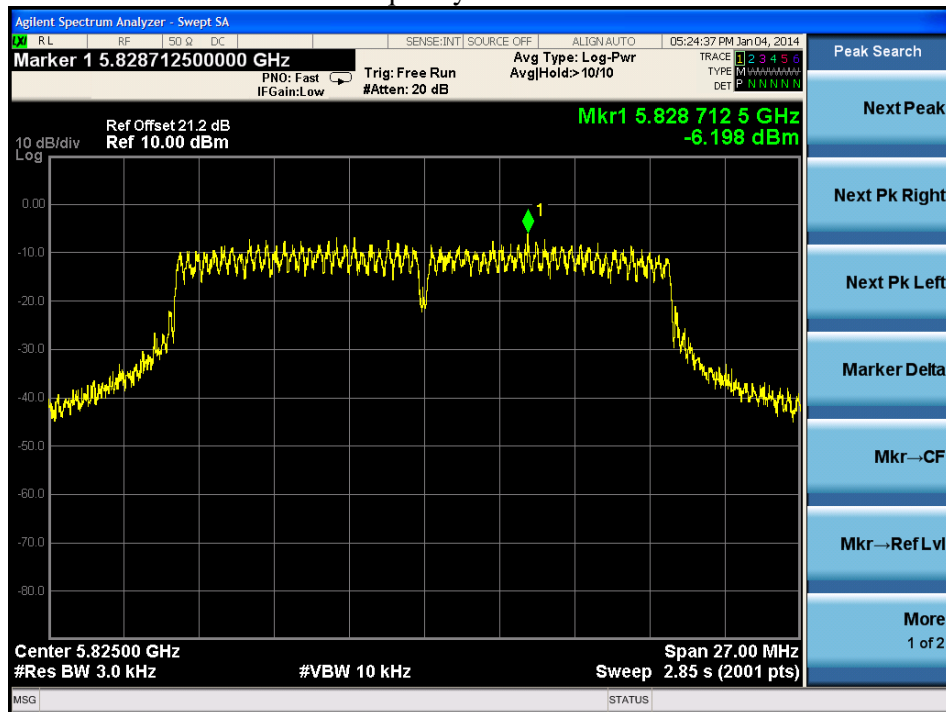


Frequency M – Chain 1





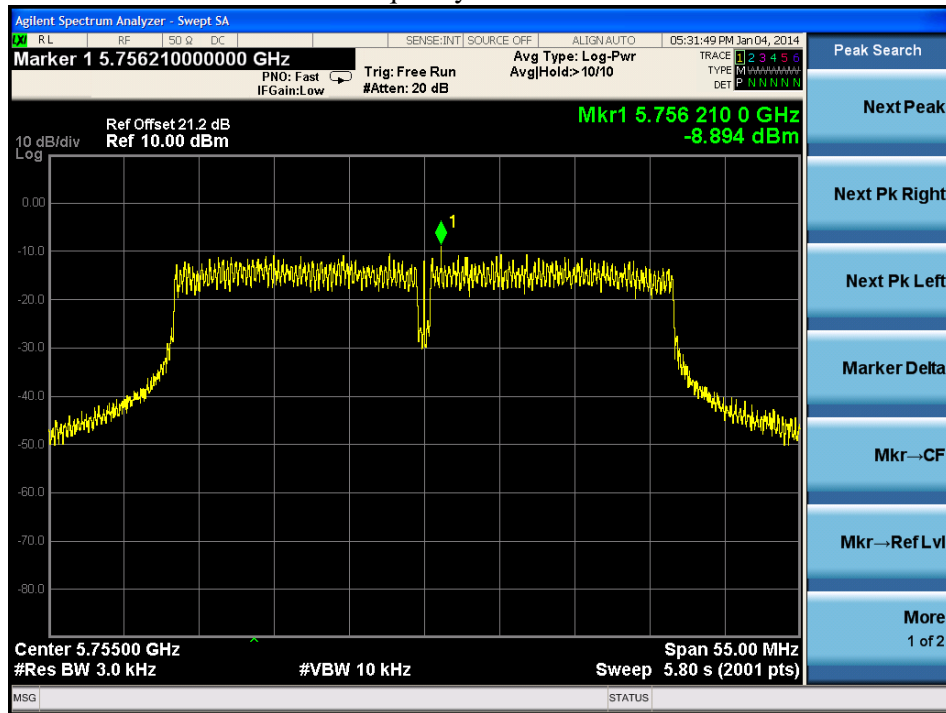
Frequency H – Chain 1



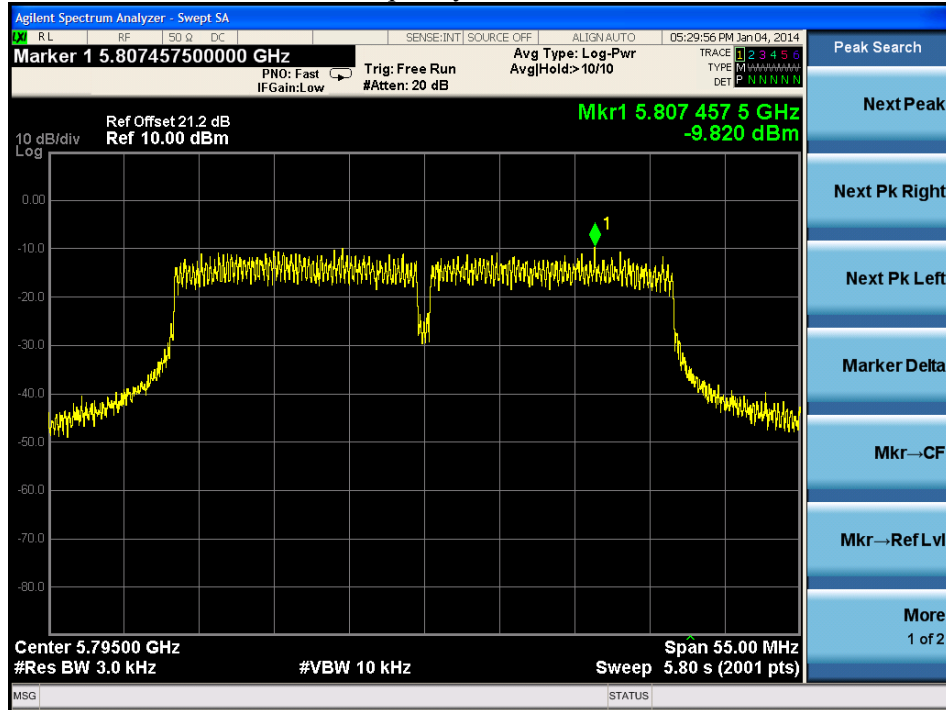


Mode	CH	Cable loss (dB)	PSD (dBm/3kHz)		Total PSD (dBm/3kHz)	Limit (dBm/3kHz)
			Port 0	Port 1		
802.11n20	L	20.9	-8.894	-7.376	-5.060	≤8.00
	H	20.9	-9.820	-9.334	-6.560	

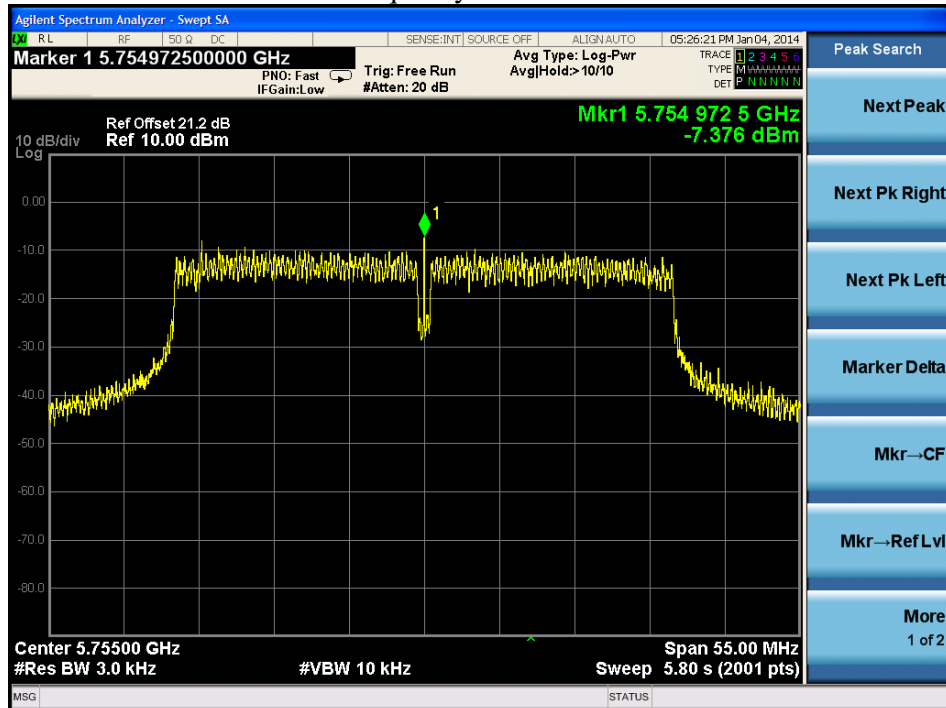
Frequency L – Chain 0



Frequency H – Chain 0

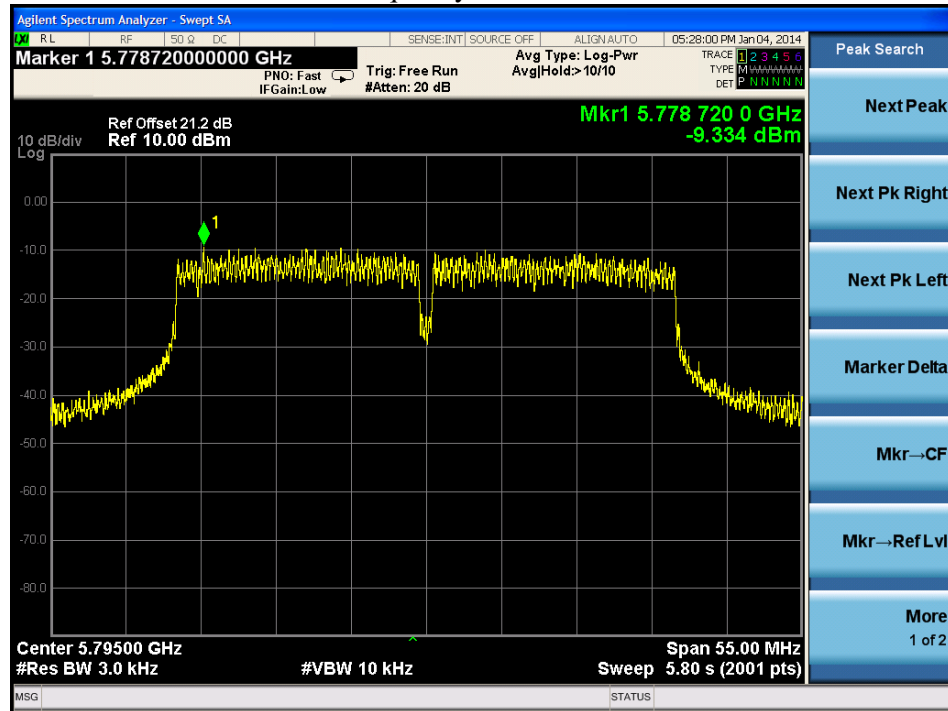


Frequency L – Chain 1





Frequency H – Chain 1



6. Radiated emission in the restricted bands

Test result: PASS

6.1 Test limit

The 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) showed as below:

Frequency (MHz)	Field Strength (dBuV/m)	Measurement Distance (m)
30 - 88	40.0	3
88 - 216	43.5	3
216 - 960	46.0	3
Above 960	54.0	3

6.2 Test Configuration

