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TEST REPORT

REPORT NUMBER
181200217TWN-001

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PAGES
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DOCUMENT CONTROL NUMBER

Radio Spectrum
TEST REPORT

Applicant:	**InnoComm Mobile Technology Corp.** **3F, No. 6, Hsin Ann Rd., Hsinchu Science Park, Hsinchu 30078, Taiwan**
Product:	**Wireless console module**
Model No.:	**Foenix_AN, Foenix_A, Foenix_N, Foenix**
Brand Name:	**InnoComm**
FCC ID:	**YAI-CIC22101**
Test Method/ Standard:	**47 CFR FCC Part 15.247 & ANSI C63.10 2013** **KDB 558074 D01 v04** **KDB 662911 D01 v02r01**
Test By:	**Intertek Testing Services Taiwan Ltd.,** **Hsinchu Laboratory** **No. 11, Lane 275, Ko-Nan 1 Street, Chia-Tung Li,** **Shiang-Shan District, Hsinchu City, Taiwan**

Testing Laboratory
0597

Prepared and Checked by:

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Approved by:

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Engineer

Revision History

Report No.	Issue Date	Revision Summary
181200217TWN-001	Jan. 28, 2019	Original report

Table of Contents

Summary of Test Data

Test Requirement	Applicable Rule (Section 15.247)	Result
Minimum 6 dB Bandwidth	15.247(a)(2)	Pass
Maximum Peak Conducted Output Power	15.247(b)(3)	Pass
Power Spectral Density	15.247(e)	Pass
Emissions In Non-Restricted Frequency Bands	15.247(d)	Pass
Emissions In Restricted Frequency Bands (Radiated emission measurements)	15.247(d), 15.205, 15.209	Pass
Emission On The Band Edge	15.247(d), 15.205	Pass
AC Power Line Conducted Emission	15.207	Pass
Antenna Requirement	15.203	Pass

1. General Information

1.1 Identification of the EUT

Product:	Wireless console module
Model No.:	Foenix_AN
Operating Frequency:	2412 MHz ~ 2462 MHz for 802.11b, 802.11g, 802.11n HT20, 802.11n HT40
Channel Number:	11 channels for 2412 MHz ~ 2462 MHz
Frequency of Each Channel:	2412+5 k, k＝0 ~ 10 for 802.11b, 802.11g, 802.11n HT20, 802.11n HT40
Access scheme:	DSSS, OFDM
Rated Power:	DC 12V from adapter
Power Cord:	N/A
Sample receiving date:	Dec. 20, 2018
Sample condition:	Workable
Test Date(s):	Jan. 04, 2019~Jan. 22, 2019

1.2 Description of the EUT

The customer confirmed the models listed as below were series model to model Foenix_AN (EUT), the difference between main model and series model are listed as below.

Model Number	Different
Foenix_AN	Wi-Fi 2.4G(2T2R)/5G (B1+B4 2T2R) / BT 2.1+4.2 / ANT+ / NFC
Foenix_A	Wi-Fi 2.4G(2T2R)/5G (B1+B4 2T2R) / BT 2.1+4.2 /ANT+
Foenix_N	Wi-Fi 2.4G(2T2R)/5G (B1+B4 2T2R) / BT 2.1+4.2 /NFC
Foenix	Wi-Fi 2.4G(2T2R)/5G (B1+B4 2T2R) / BT 2.1+4.2

Modulation mode	Transmit path	
	Chain 0	Chain 1
802.11b	V	V
802.11g	V	V
802.11n (HT20)	V	V

1.3 Antenna description

Antenna 1

Antenna Gain	: 3.95 dBi
Antenna Type	: PCB antenna
Connector Type	: I-Pex

Antenna 2

Antenna Gain	: 4.72 dBi
Antenna Type	: PCB antenna
Connector Type	: I-Pex

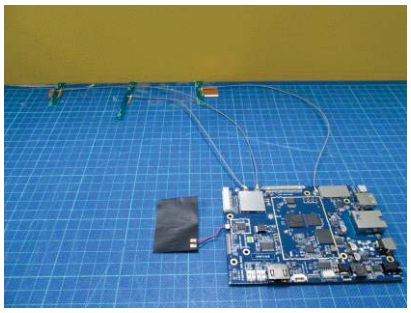
1.4 Peripherals equipment

No.	Model no.	Specification
Adapter	EA10681G-120	I/P: 100-240V~, 2.0A, 50-60Hz O/P: 12V, 4.16A

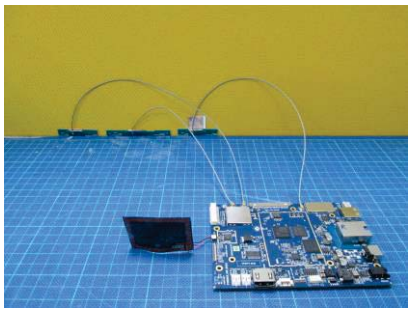
1.5 Operation mode

TX mode: EUT use cmd.exe entering test mode , and write down different cmd to change different channel.
With individual verifying, the maximum output power were found out 1 Mbps data rate for 802.11b mode, 6 Mbps data rate for 802.11g mode, 6.5 Mbps data rate for 802.11n(HT20) mode, 13.5 Mbps data rate for 802.11n(HT40) mode, the final tests were executed under these conditions recorded in this report individually.

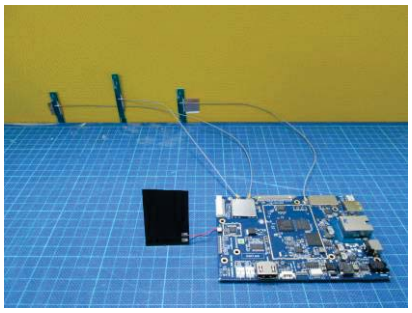
The signal is maximized through rotation and placement in the three orthogonal axes.



X axis



Y axis



Z axis

After verifying three axes, we found the maximum electromagnetic field was occurred at Y axis. The final test data was executed under this configuration.

Chain 0

802.11b ch6 chain0		802.11g ch6 chain0		802.11n(HT20) ch6 chain0	
Data rate (Mbps)	AV (dBm)	Data rate (Mbps)	AV (dBm)	Data rate (Mbps)	AV (dBm)
1	17.65	6	15.31	MCS08	13.94
2	17.62	9	15.29	MCS09	13.88
5.5	17.56	12	15.25	MCS10	13.84
11	17.48	18	15.20	MCS11	13.79
		24	15.16	MCS12	13.77
		36	15.14	MCS13	13.73
		48	15.08	MCS14	13.65
		54	15.03	MCS15	13.61

802.11n(HT40) ch6 chain0	
Data rate (Mbps)	AV (dBm)
MCS08	12.12
MCS09	12.06
MCS10	12.02
MCS11	11.98
MCS12	11.94
MCS13	11.91
MCS14	11.86
MCS15	11.83

Chain 1

802.11b ch6 chain1		802.11g ch6 chain1		802.11n(HT20) ch6 chain1	
Data rate (Mbps)	AV (dBm)	Data rate (Mbps)	AV (dBm)	Data rate (Mbps)	AV (dBm)
1	17.59	6	15.08	MCS08	13.26
2	17.55	9	15.01	MCS09	13.22
5.5	17.51	12	14.97	MCS10	13.18
11	17.48	18	14.92	MCS11	13.14
		24	14.86	MCS12	13.09
		36	14.83	MCS13	13.07
		48	14.76	MCS14	13.02
		54	14.72	MCS15	13.01

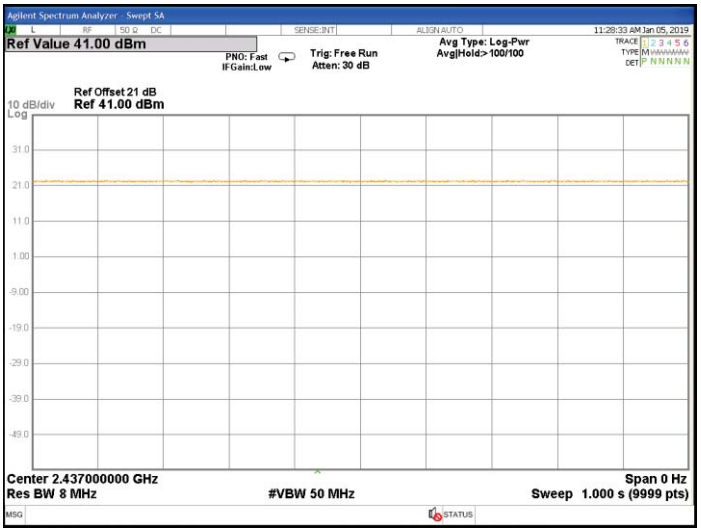
802.11n(HT40) ch6 chain1	
Data rate (Mbps)	AV (dBm)
MCS08	11.61
MCS09	11.58
MCS10	11.54
MCS11	11.49
MCS12	11.46
MCS13	11.42
MCS14	11.37
MCS15	11.35

1.6 Power setting of test software

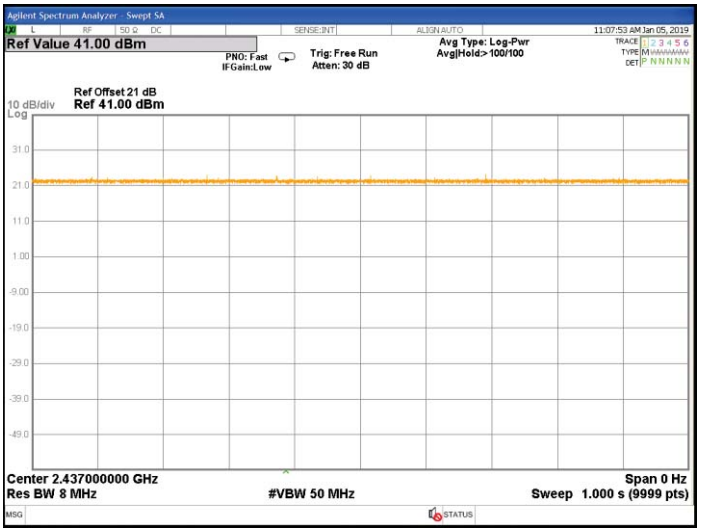
Mode	Chain	Channel	Frequency (MHz)	Data rate (Mbps)	Signal on time(s)	Total signal transmit time(s)	Duty cycle	Duty Cycle factor
802.11b	Chain 0	6	2437	1	1	1	1.000	0.000
802.11g	Chain 0	6	2437	6	1	1	1.000	0.000
802.11n (HT20)	Chain 0	6	2437	6.5	1	1	1.000	0.000
802.11n (HT40)	Chain 0	6	2437	13.5	1	1	1.000	0.000
802.11b	Chain 1	6	2437	1	1	1	1.000	0.000
802.11g	Chain 1	6	2437	6	1	1	1.000	0.000
802.11n (HT20)	Chain 1	6	2437	6.5	1	1	1.000	0.000
802.11n (HT40)	Chain 1	6	2437	13.5	1	1	1.000	0.000

Chain0 : Duty Cycle @ 802.11b Mode

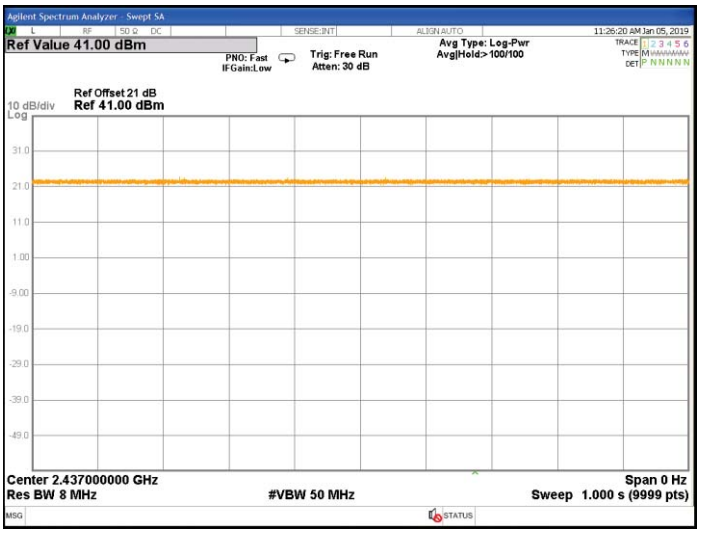
Chain1 : Duty Cycle @ 802.11b Mode



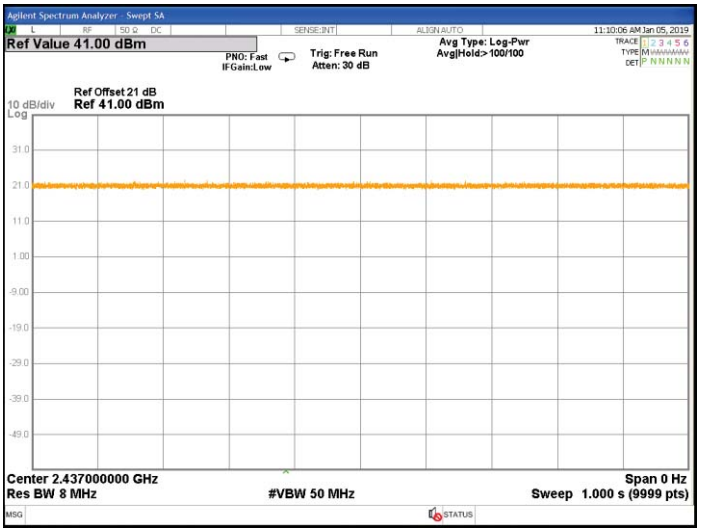
Chain0 : Duty Cycle @ 802.11g Mode



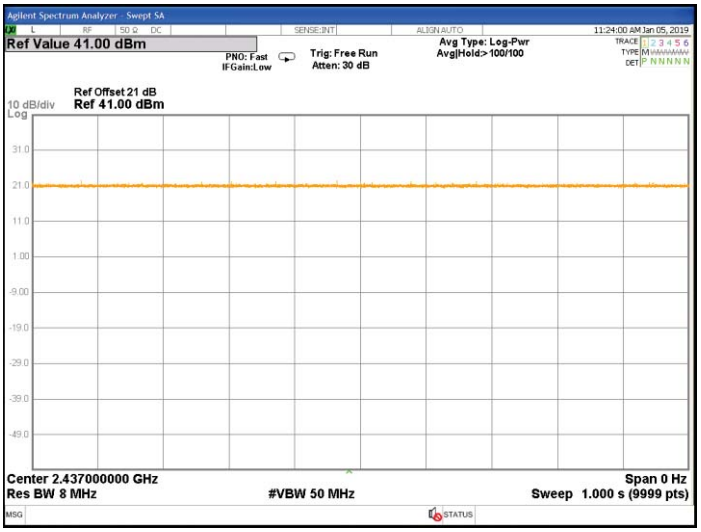
Chain1 : Duty Cycle @ 802.11g Mode



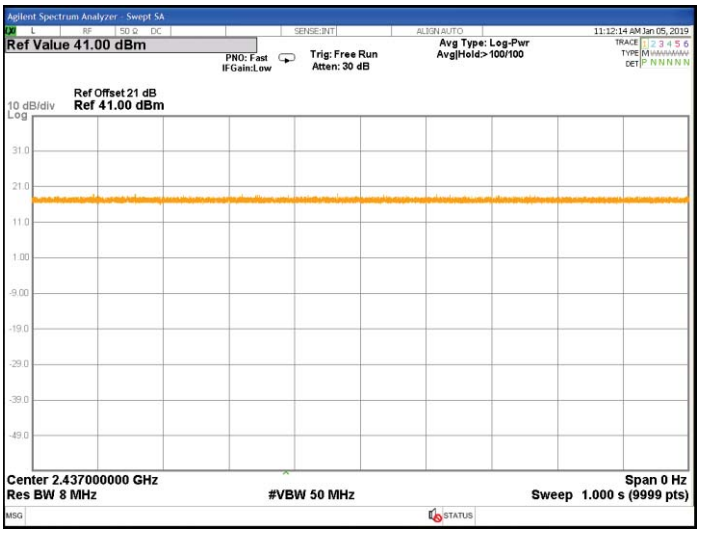
Chain0 : Duty Cycle @ 802.11n(HT20) Mode



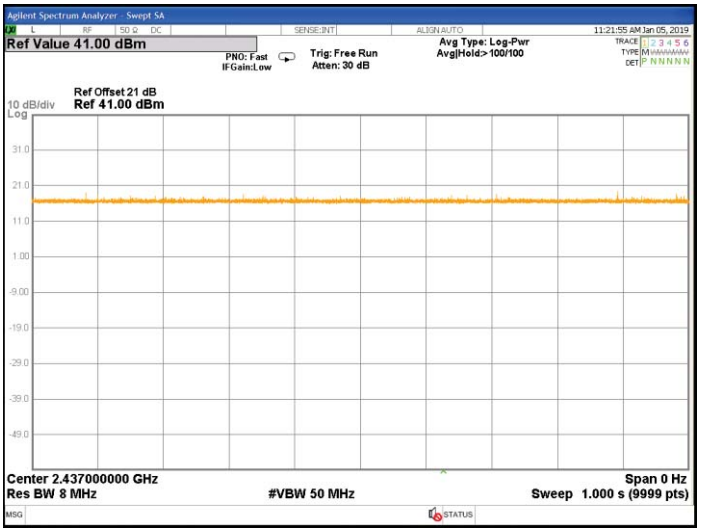
Chain1 : Duty Cycle @ 802.11n(HT20) Mode



Chain0 : Duty Cycle @ 802.11n(HT40) Mode



Chain1 : Duty Cycle @ 802.11n(HT40) Mode



2. Minimum 6 dB Bandwidth

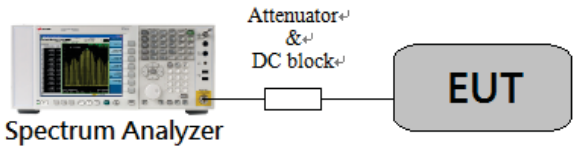
2.1 Instrument Setting

Spectrum Parameter	Setting
Detector	Peak
RBW	100kHz
VBW	≧ 3 x RBW
Sweep	Auto couple
Trace	Allow the trace to stabilize.
Span	Between two times and five times the occupied bandwidth
Attenuation	Auto

2.2 Test Procedure

Step 1	The transmitter output was connected to the spectrum analyzer.
Step 2	Test was performed in accordance with clause 8.1 option1 of KDB 558074 D01.
Step 3	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

2.3 Test Diagram



2.4 Limit

The minimum 6 dB bandwidth shall be at least 500 kHz.

2.5 Operating Environment Condition

Temperature (℃) :	25
Relative Humidity (%) :	50
Atmospheric Pressure (hPa) :	1008
Test Date :	2019/1/04~ 2019/1/07

2.6 Test Results

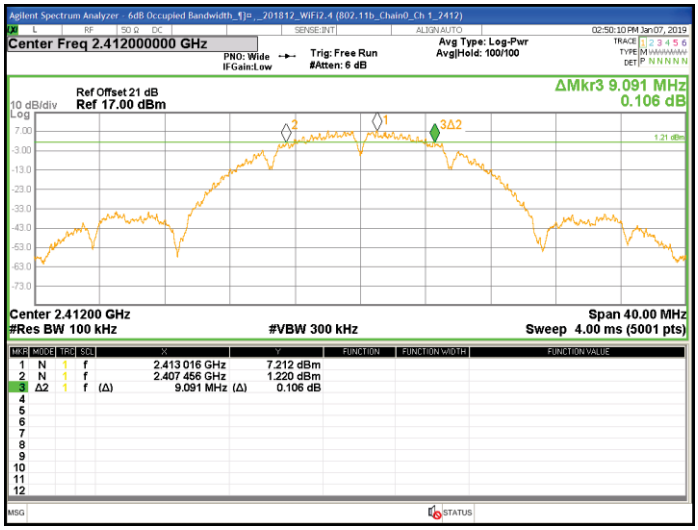
Chain 0

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1	2412	9.091	>0.5	Pass
	6	2437	9.079	>0.5	Pass
	11	2462	9.054	>0.5	Pass
802.11g	1	2412	13.695	>0.5	Pass
	6	2437	15.086	>0.5	Pass
	11	2462	15.068	>0.5	Pass
802.11n(HT20)	1	2412	15.042	>0.5	Pass
	6	2437	15.955	>0.5	Pass
	11	2462	15.069	>0.5	Pass
802.11n(HT40)	3	2422	34.988	>0.5	Pass
	6	2437	34.939	>0.5	Pass
	9	2452	35.133	>0.5	Pass

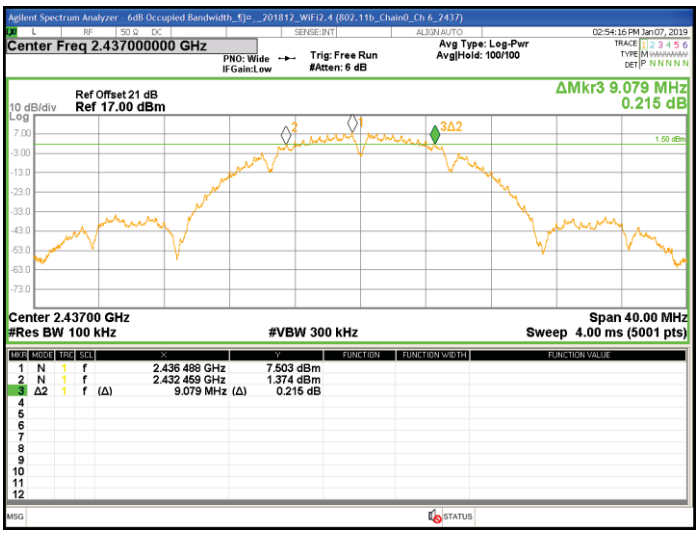
Chain 1

Mode	Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11b	1	2412	9.077	>0.5	Pass
	6	2437	9.051	>0.5	Pass
	11	2462	9.064	>0.5	Pass
802.11g	1	2412	15.068	>0.5	Pass
	6	2437	13.823	>0.5	Pass
	11	2462	15.424	>0.5	Pass
802.11n(HT20)	1	2412	16.215	>0.5	Pass
	6	2437	16.035	>0.5	Pass
	11	2462	15.092	>0.5	Pass
802.11n(HT40)	3	2422	35.071	>0.5	Pass
	6	2437	35.130	>0.5	Pass
	9	2452	35.124	>0.5	Pass

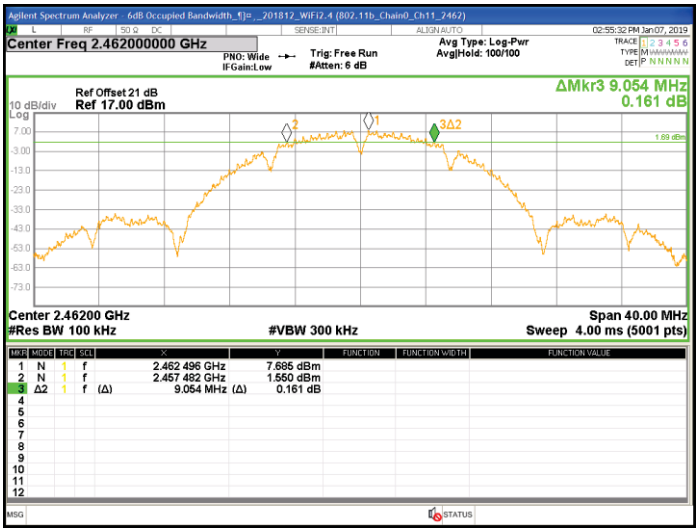
Chain0 : 6dB Bandwidth @ 802.11b Mode Ch 1



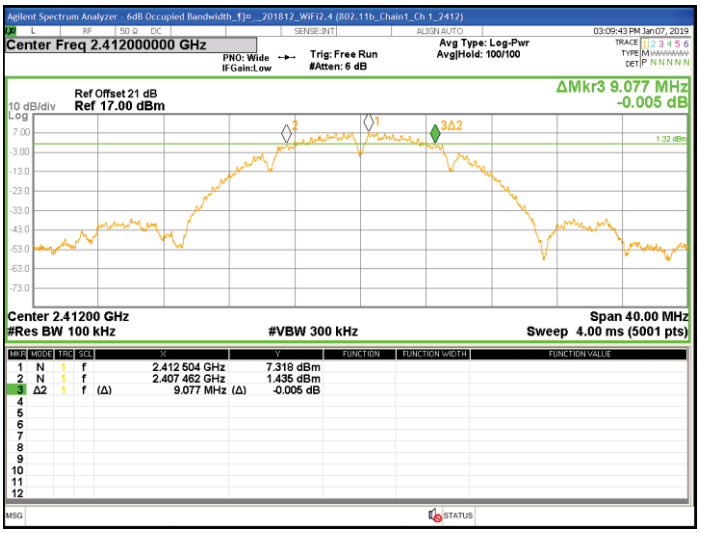
Chain0 : 6dB Bandwidth @ 802.11b Mode Ch 6



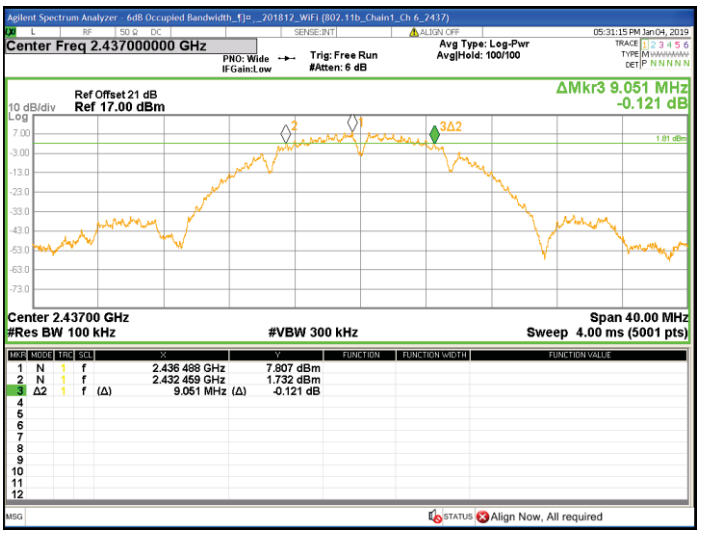
Chain0 : 6dB Bandwidth @ 802.11b Mode Ch11



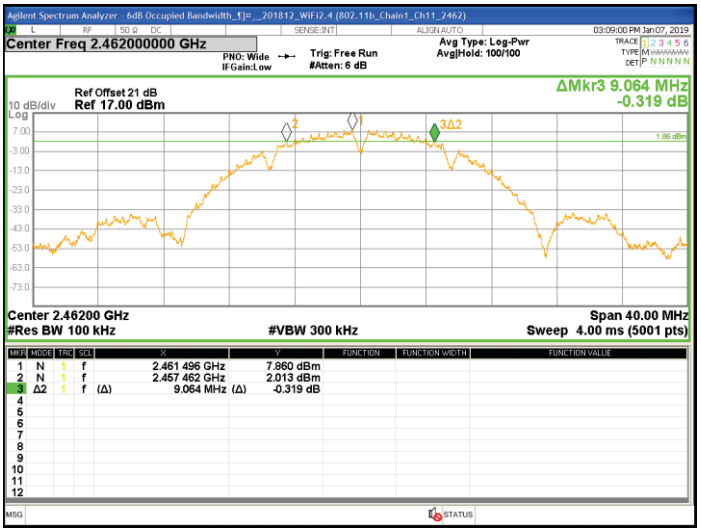
Chain1 : 6dB Bandwidth @ 802.11b Mode Ch 1



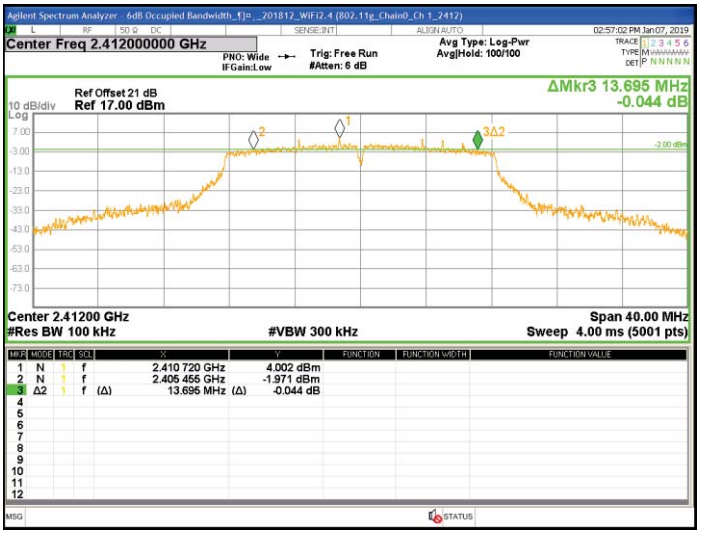
Chain1 : 6dB Bandwidth @ 802.11b Mode Ch 6



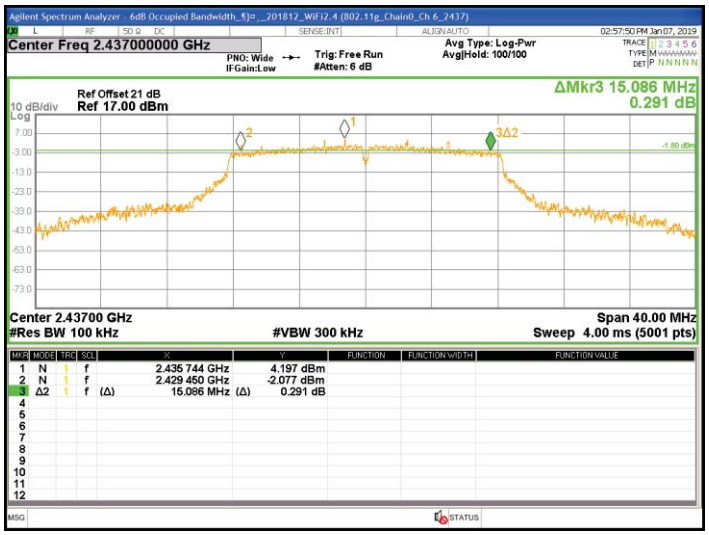
Chain1 : 6dB Bandwidth @ 802.11b Mode Ch11



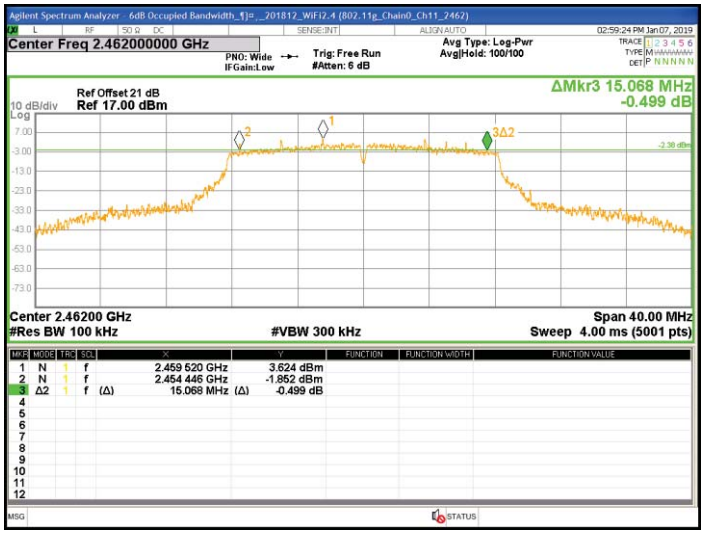
Chain0 : 6dB Bandwidth @ 802.11g Mode Ch 1



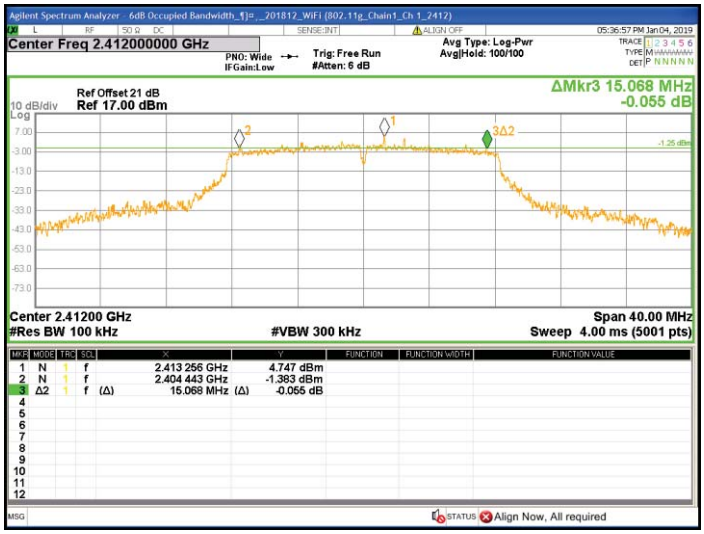
Chain0 : 6dB Bandwidth @ 802.11g Mode Ch 6



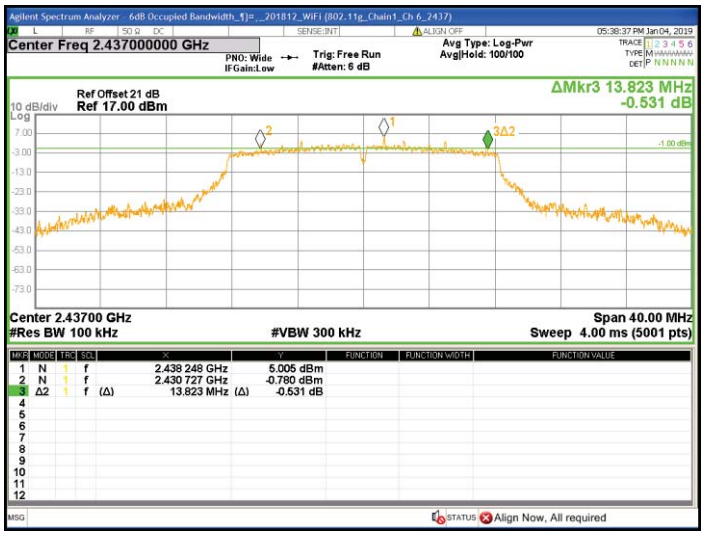
Chain0 : 6dB Bandwidth @ 802.11g Mode Ch11



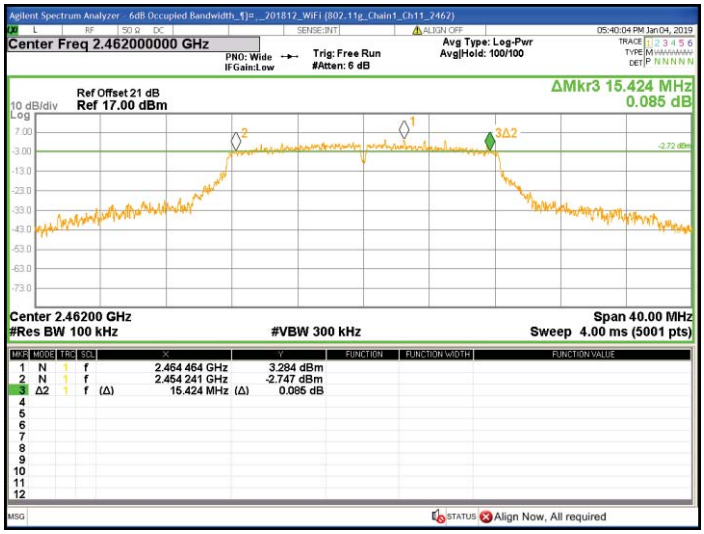
Chain1 : 6dB Bandwidth @ 802.11g Mode Ch 1



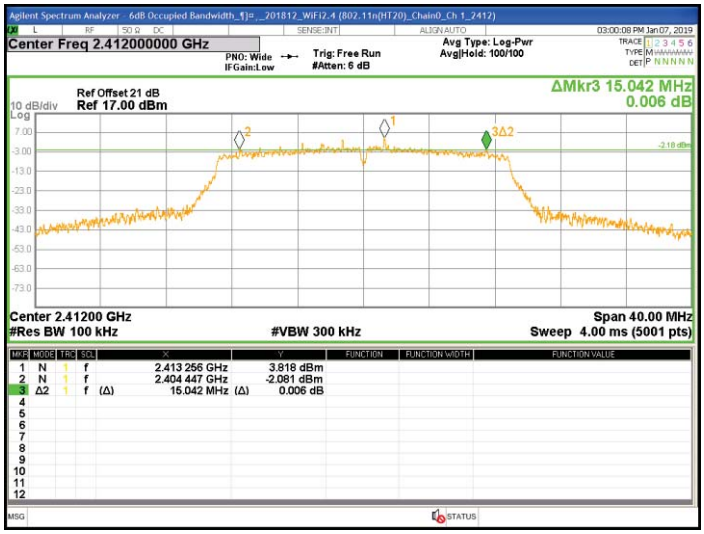
Chain1 : 6dB Bandwidth @ 802.11g Mode Ch 6



Chain1 : 6dB Bandwidth @ 802.11g Mode Ch11

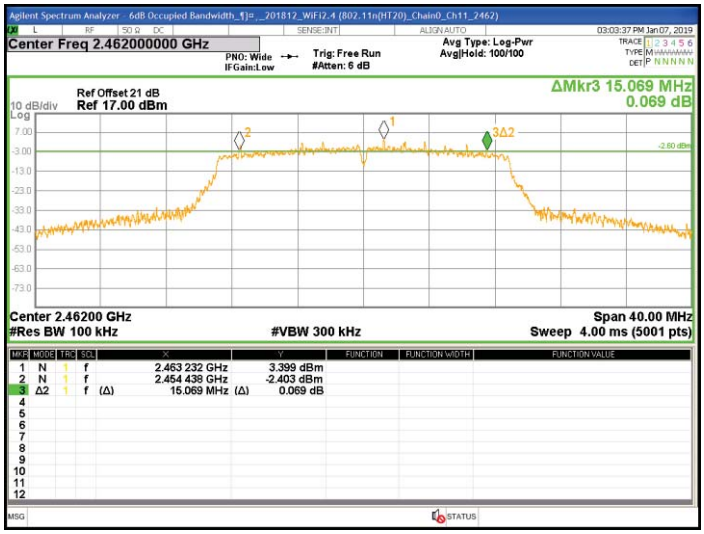


Chain0 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch 1

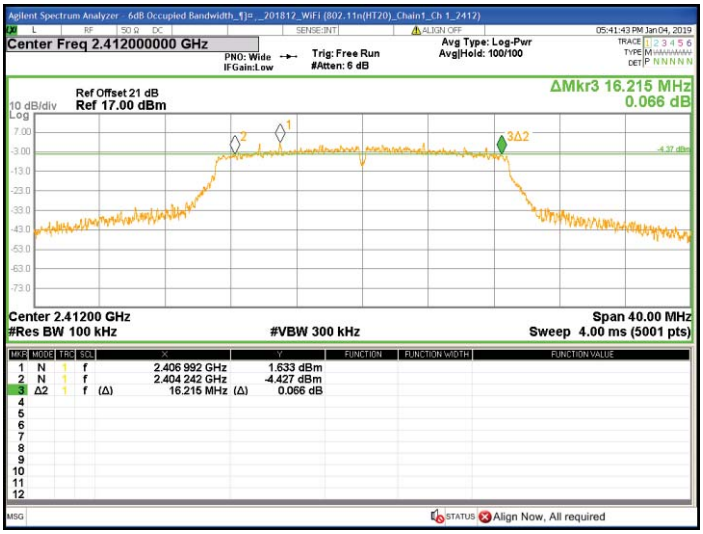


Chain0 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch 6

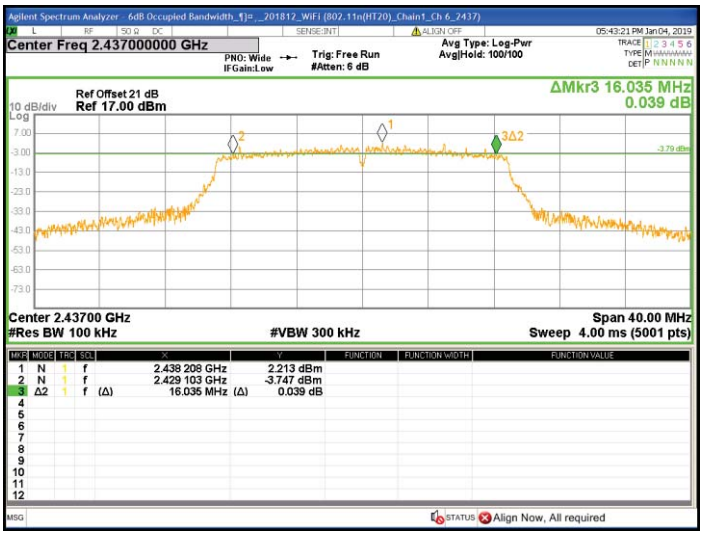
Chain0 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch11



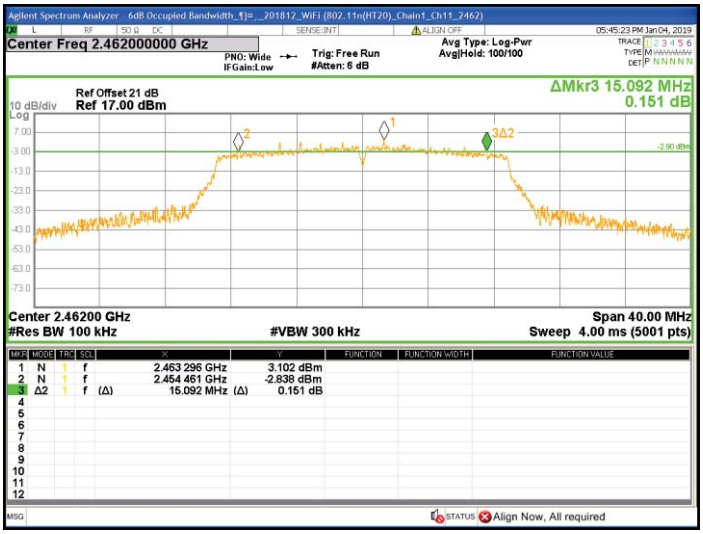
Chain1 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch 1



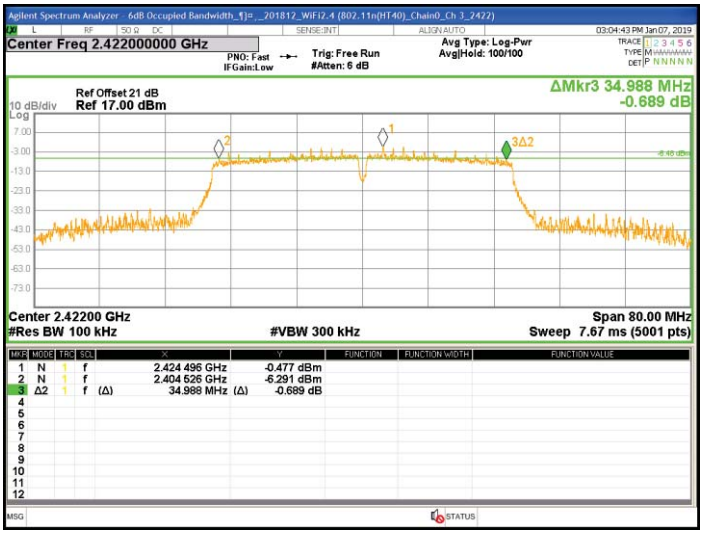
Chain1 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch 6



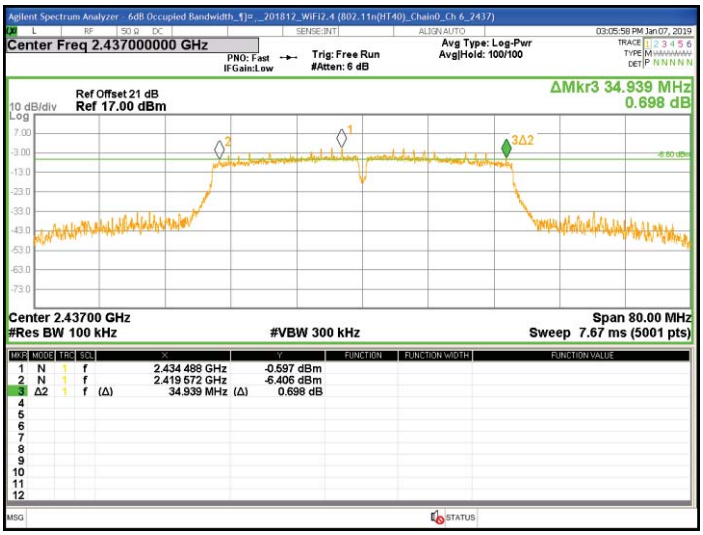
Chain1 : 6dB Bandwidth @ 802.11n(HT20) Mode Ch11



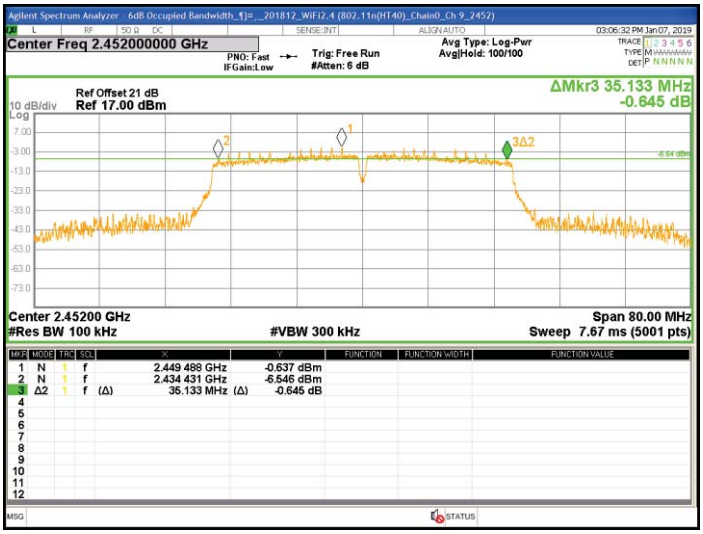
Chain0 : 6dB Bandwidth @ 802.11n(HT40) Mode Ch 3



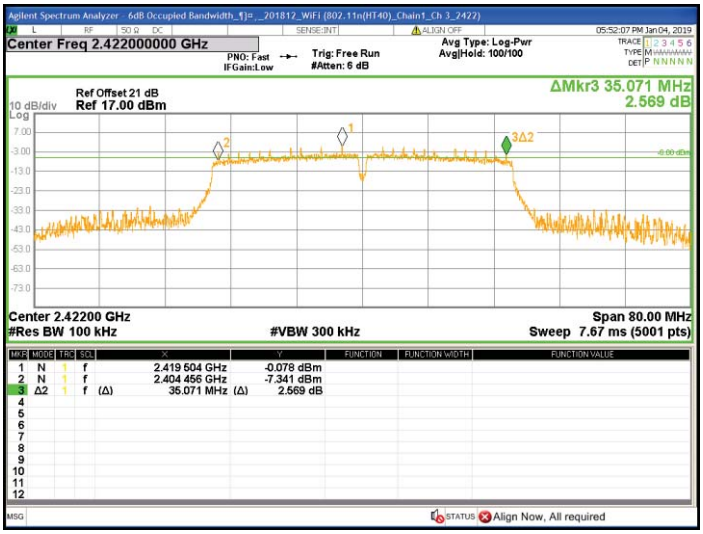
Chain0 : 6dB Bandwidth @ 802.11n(HT40) Mode Ch 6



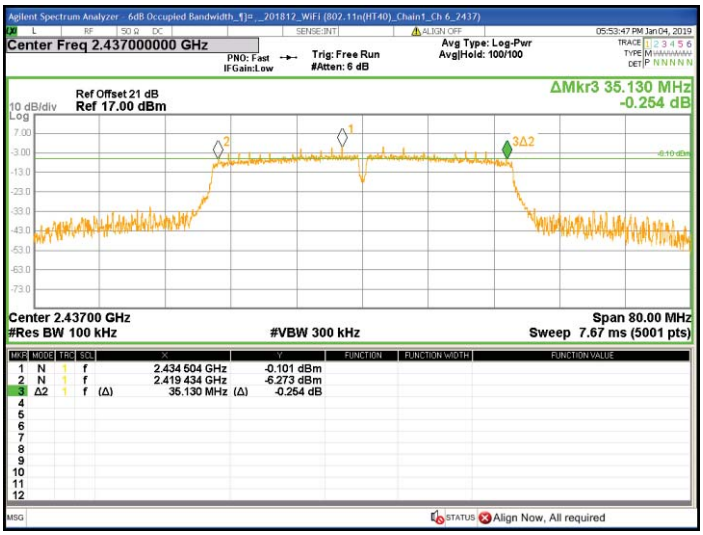
Chain0 : 6dB Bandwidth @ 802.11n(HT40) Mode Ch 9



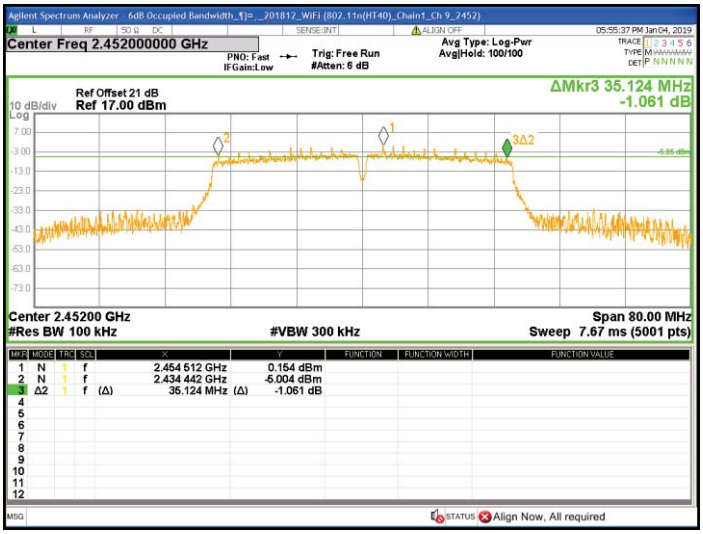
Chain1 : 6dB Bandwidth @ 802.11n(HT40) Mode Ch 3



Chain1 : 6dB Bandwidth @ 802.11n(HT40) Mode Ch 6



Chain1 : 6dB Bandwidth @ 802.11n(HT40) Mode Ch 9



3.Maximum Peak Conducted Output Power

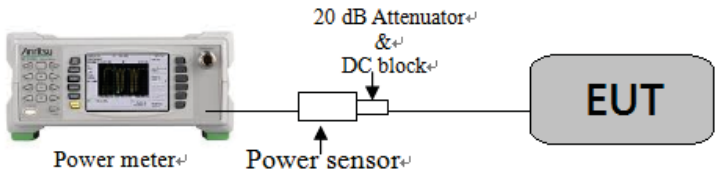
3.1 Instrument Setting

Power Meter Parameter	Setting
Bandwidth	65MHz bandwidth is greater than the EUT emission bandwidth
Detector	Peak & Average

3.2Test Procedure

Test procedures refer to clause 9.1.3 peak power meter method and clause 9.2.3.2 measurement using a gated RF average power meter of KDB 558074 D01.

3.3 Test Diagram



3.4 Limit

For systems using digital modulation in the 2400-2483.5 MHz: 1 Watt (30dBm)

3.5 Operating Environment Condition

Temperature (℃) :	25
Relative Humidity (%) :	50
Atmospheric Pressure (hPa) :	1008
Test Date :	2019/01/06

3.6 Test Results

Single Tx

Mode	Channel	Frequency (MHz)	Output Power (AV) (dBm)	Total Power (AV) (mW)	Maximum power (PK) (dBm)	Maximum power (PK) (mW)	Limit (dBm)	Margin (dB)
802.11b Chain 0	1	2412	17.68	58.61	19.75	94.41	30	-10.25
	6	2437	17.65	58.21	19.72	93.76	30	-10.28
	11	2462	17.67	58.48	19.77	94.84	30	-10.23
802.11g Chain 0	1	2412	15.06	32.06	23.25	211.35	30	-6.75
	6	2437	15.31	33.96	23.31	214.29	30	-6.69
	11	2462	15.40	34.67	23.49	223.36	30	-6.51

Mode	Channel	Frequency (MHz)	Output Power (AV) (dBm)	Total Power (AV) (mW)	Maximum power (PK) (dBm)	Maximum power (PK) (mW)	Limit (dBm)	Margin (dB)
802.11b Chain 1	1	2412	17.27	53.33	19.39	86.90	30	-10.61
	6	2437	17.59	57.41	19.68	92.90	30	-10.32
	11	2462	17.75	59.57	19.9	97.72	30	-10.10
802.11g Chain 1	1	2412	14.90	30.90	22.79	190.11	30	-7.21
	6	2437	15.08	32.21	22.97	198.15	30	-7.03
	11	2462	15.27	33.65	23.12	205.12	30	-6.88

MIMO

Mode	Channel	Frequency (MHz)	Output Power (dBm)				Output Power (mW)				Total Power (dBm)				Limit (dBm)	Margin (dB)
			Chian 0		Chain 1		Chain 0		Chian 1		AV		PK			
			AV	PK	AV	PK	AV	PK	AV	PK	0+1 (mW)	0+1 (dBm)	0+1 (mW)	0+1 (dBm)		
802.11n (HT20)	1	2412	13.88	21.84	12.89	21.41	24.43	152.76	19.45	138.36	43.89	16.42	291.11	24.64	30	-5.36
	6	2437	13.94	21.95	13.26	21.66	24.77	156.68	21.18	146.55	45.96	16.62	303.23	24.82	30	-5.18
	11	2462	13.97	22.08	13.46	21.84	24.95	161.44	22.18	152.76	47.13	16.73	314.19	24.97	30	-5.03

MIMO

Mode	Channel	Frequency (MHz)	Output Power (dBm)				Output Power (mW)				Total Power (dBm)				Limit (dBm)	Margin (dB)
			Chian 0		Chain 1		Chain 0		Chian 1		AV		PK			
			AV	PK	AV	PK	AV	PK	AV	PK	0+1 (mW)	0+1 (dBm)	0+1 (mW)	0+1 (dBm)		
802.11n (HT40)	3	2422	11.88	21.39	11.33	20.53	15.42	137.72	13.58	112.98	29.00	14.62	250.70	23.99	30	-6.01
	6	2437	12.12	21.46	11.61	20.94	16.29	139.96	14.49	124.17	30.78	14.88	264.12	24.22	30	-5.78
	9	2452	12.18	21.67	11.87	21.19	16.52	146.89	15.38	131.52	31.90	15.04	278.42	24.45	30	-5.55

4.Power Spectral Density

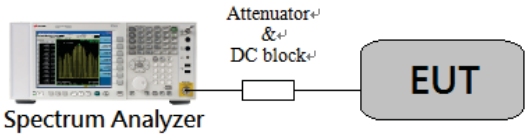
4.1 Instrument Setting

Spectrum Function	Setting
Detector	Peak
RBW	≧ 3 kHz
VBW	≧ 3 x RBW
Sweep	Auto couple
Trace	Max hold
Span	1.5 times x 6dB bandwidth
Attenuation	Auto

4.2 Test Procedure

Step 1	Test procedure refer to clause 10.2 method PKPSD (peak PSD) of KDB 558074 D01 and clause E) 2) c) of KDB 662911 D01 measure and sum spectral maxima across the outputs.
Step 2	Using the maximum conducted output power in the fundamental emission demonstrates compliance. The EUT must be configured to transmit continuously at full power over the measurement duration.
Step 3	Use the peak marker function to determine the maximum amplitude level within the RBW.

4.3 Test Diagram



4.4 Limit

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

4.5 Operating Environment Condition

Temperature (℃) :	25
Relative Humidity (%) :	50
Atmospheric Pressure (hPa) :	1008

Test Date :	2019/1/6

4.6 Test Results

Note1: RBW Correction = 10*log(10kHz/3kHz) = 5.229
Note2: PSD in 3kHz = PSD in 10kHz – RBW Correction
Note3: Because using KDB 662911 v02r01 D01 E) 2) c), we found the peak PSD and add 10 log(N_{ANT}) dB, where N_{ANT} is the number of outputs. Before adding 10 log(N_{ANT}), each PSD was subtracted by RBW factor.

Single TX

Mode	Channel	Frequency (MHz)	RBW factor	PSD in 10kHz	PSD in 3kHz		Limit (dBm)	Margin (dB)
					(dBm)	(mW)		
802.11b (chain0)	1	2412	5.23	-2.879	-8.11	0.15	8	-16.11
	6	2437	5.23	-2.277	-7.51	0.18	8	-15.51
	11	2462	5.23	-2.640	-7.87	0.16	8	-15.87
802.11g (chain0)	1	2412	5.23	-5.961	-11.19	0.08	8	-19.19
	6	2437	5.23	-5.766	-10.99	0.08	8	-18.99
	11	2462	5.23	-5.728	-10.96	0.08	8	-18.96

Mode	Channel	Frequency (MHz)	RBW factor	PSD in 10kHz	PSD in 3kHz		Limit (dBm)	Margin (dB)
					(dBm)	(mW)		
802.11b (chain1)	1	2412	5.23	-3.000	-8.23	0.15	8	-16.23
	6	2437	5.23	-2.571	-7.80	0.17	8	-15.80
	11	2462	5.23	-2.628	-7.86	0.16	8	-15.86
802.11g (chain1)	1	2412	5.23	-5.655	-10.88	0.08	8	-18.88
	6	2437	5.23	-6.035	-11.26	0.07	8	-19.26
	11	2462	5.23	-6.290	-11.52	0.07	8	-19.52

MIMO

Mode	Channel	Freq. (MHz)	Correction Factor	PSD (dBm) in 10kHz		PSD (dBm) in 3kHz		Total PSD		MIMO		Limit (dBm)	Margin (dB)
				chain0	chain1	chain0	chain1	mW	dBm	Corr.n	Result		
802.11n (HT20)	1	2412	5.23	-6.024	-6.696	-11.253	-11.925	0.14	-8.57	3.00	-5.56	8	-13.56
	6	2437	5.23	-6.663	-6.795	-11.892	-12.024	0.13	-8.95	3.00	-5.94	8	-13.94
	11	2462	5.23	-7.003	-7.136	-12.232	-12.365	0.12	-9.29	3.00	-6.28	8	-14.28

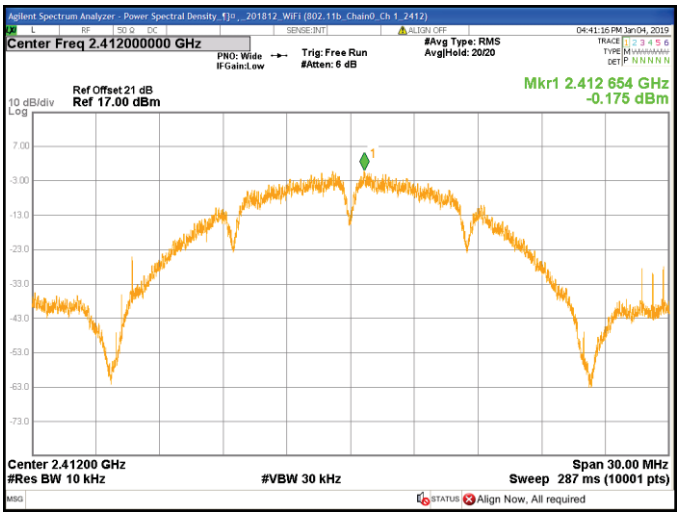
Note: MIMO Correction: 10log(Nant)= 10log(2) = 3
Correction Factor =10log(10kHz/3kHz)

MIMO

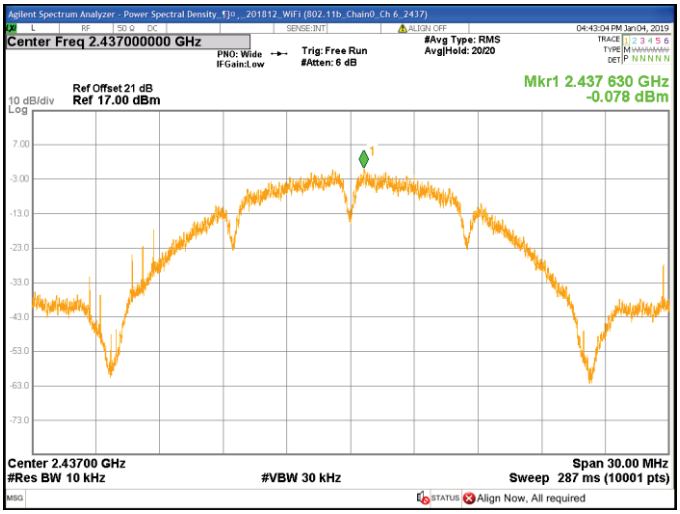
Mode	Channel	Freq. (MHz)	Correction Factor	PSD (dBm) in 10kHz		PSD (dBm) in 3kHz		Total PSD		MIMO		Limit (dBm)	Margin (dB)
				chain0	chain1	chain0	chain1	mW	dBm	Corr.n	Result		
802.11n (HT40)	3	2422	5.23	-11.011	-9.497	-16.24	-14.73	0.06	-12.41	3.00	-9.40	8	-17.40
	6	2437	5.23	-10.052	-10.51	-15.28	-15.74	0.06	-12.49	3.00	-9.48	8	-17.48
	9	2452	5.23	-11.102	-9.557	-16.33	-14.79	0.06	-12.48	3.00	-9.47	8	-17.47

Note: MIMO Correction: 10log(Nant)= 10log(2) = 3
Correction Factor =10log(10kHz/3kHz)

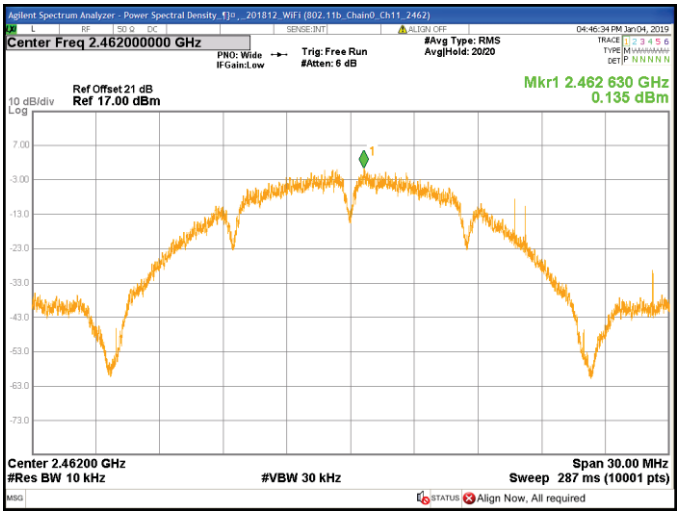
Chain0 : Power Spectral Density @ 802.11b Mode Ch 1



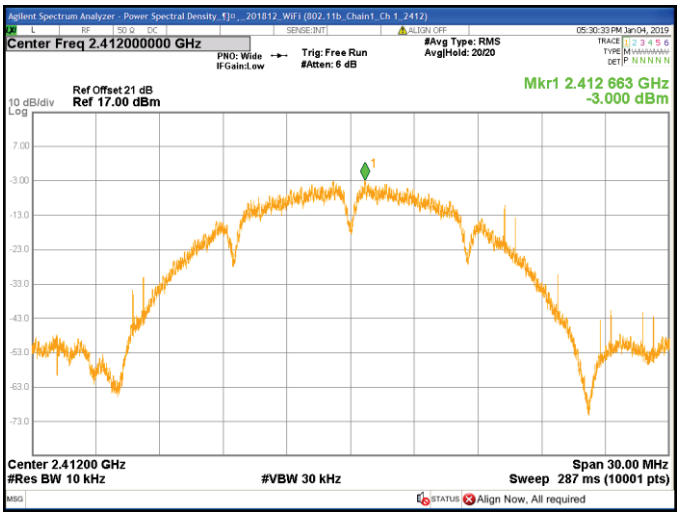
Chain0 : Power Spectral Density @ 802.11b Mode Ch 6



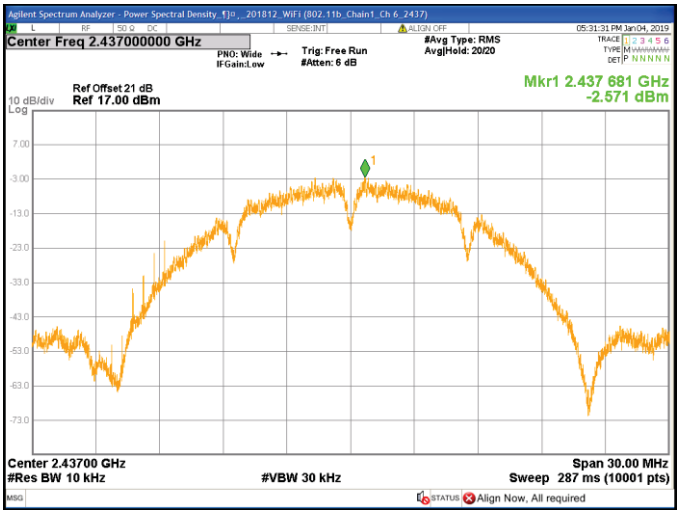
Chain0 : Power Spectral Density @ 802.11b Mode Ch11



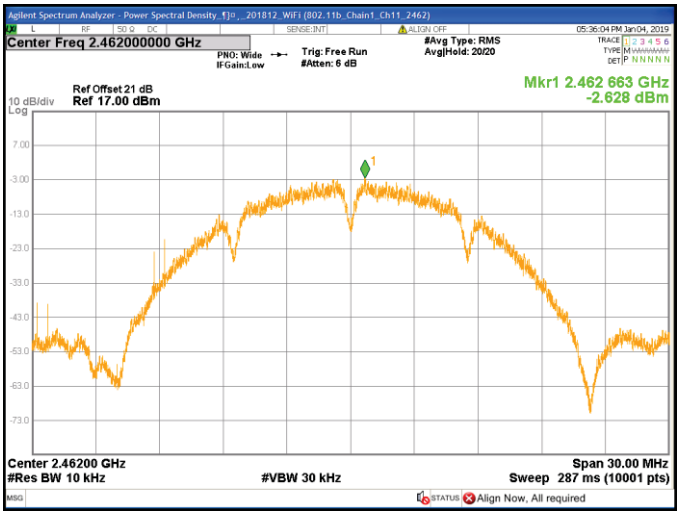
Chain1 : Power Spectral Density @ 802.11b Mode Ch 1



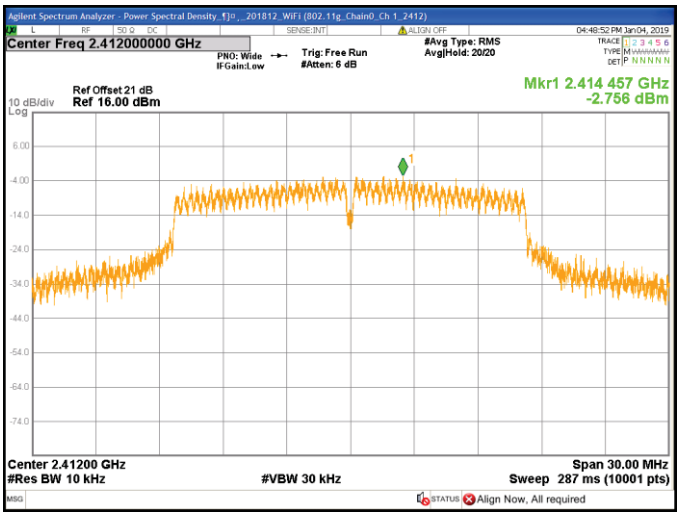
Chain1 : Power Spectral Density @ 802.11b Mode Ch 6



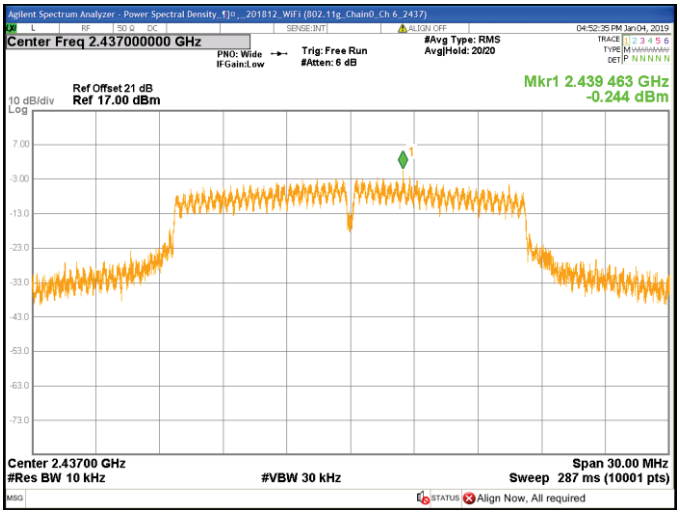
Chain1 : Power Spectral Density @ 802.11b Mode Ch11



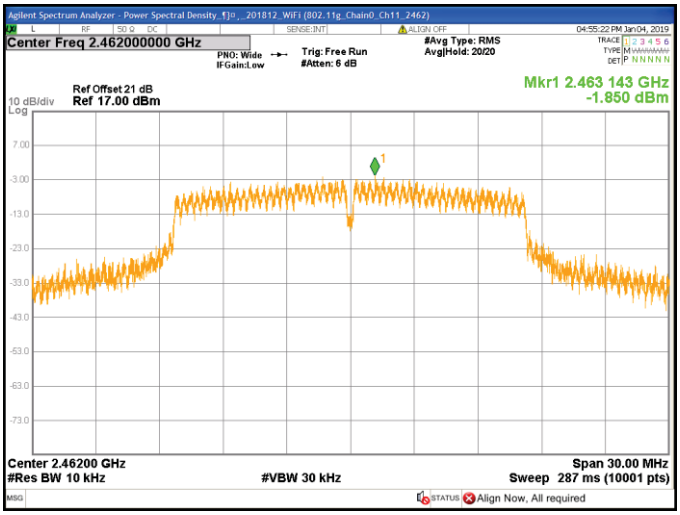
Chain0 : Power Spectral Density @ 802.11g Mode Ch 1



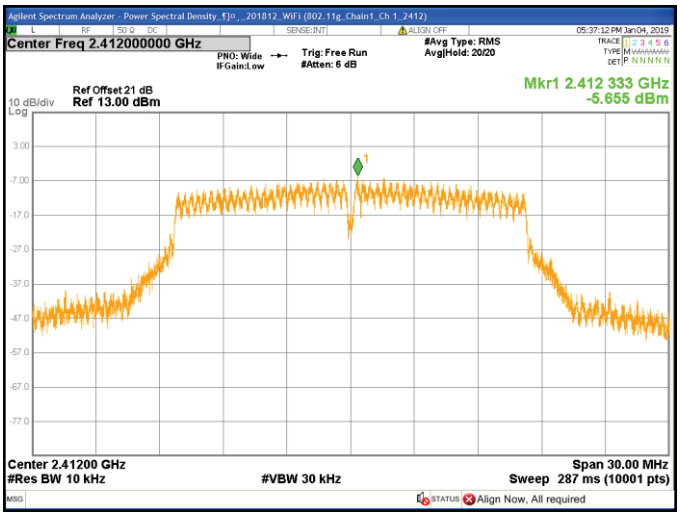
Chain0 : Power Spectral Density @ 802.11g Mode Ch 6



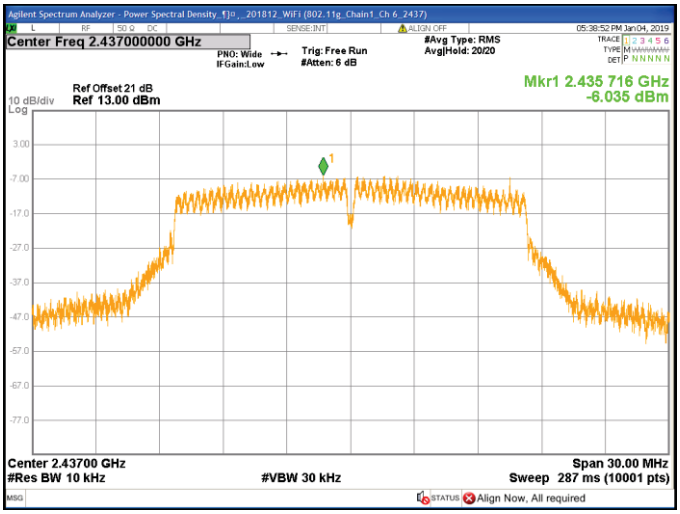
Chain0 : Power Spectral Density @ 802.11g Mode Ch11



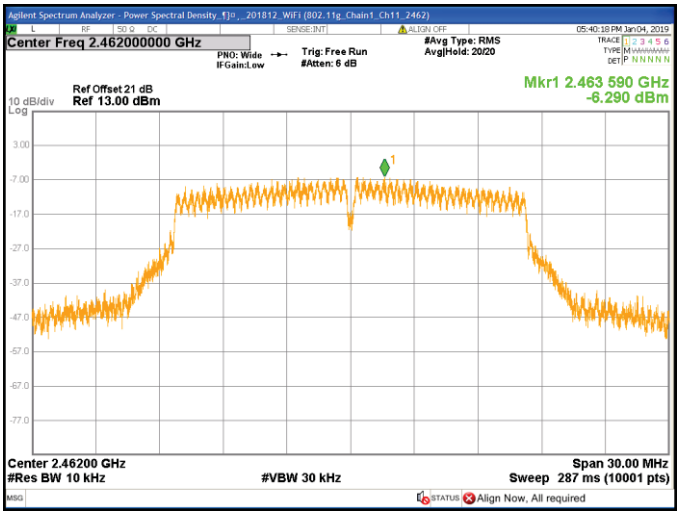
Chain1 : Power Spectral Density @ 802.11g Mode Ch 1



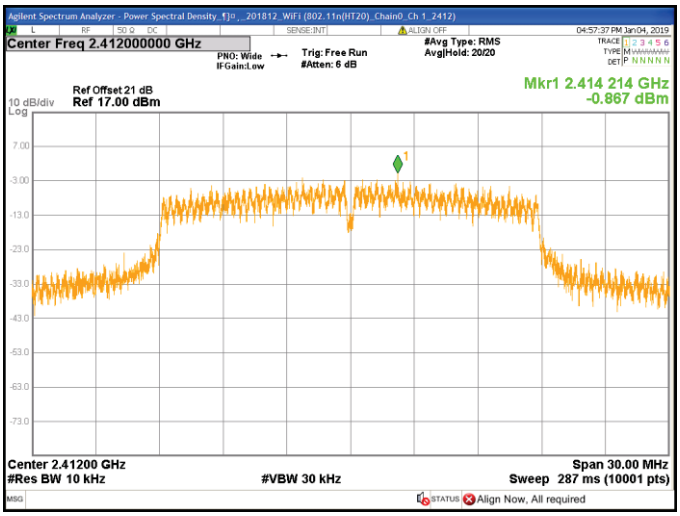
Chain1 : Power Spectral Density @ 802.11g Mode Ch 6



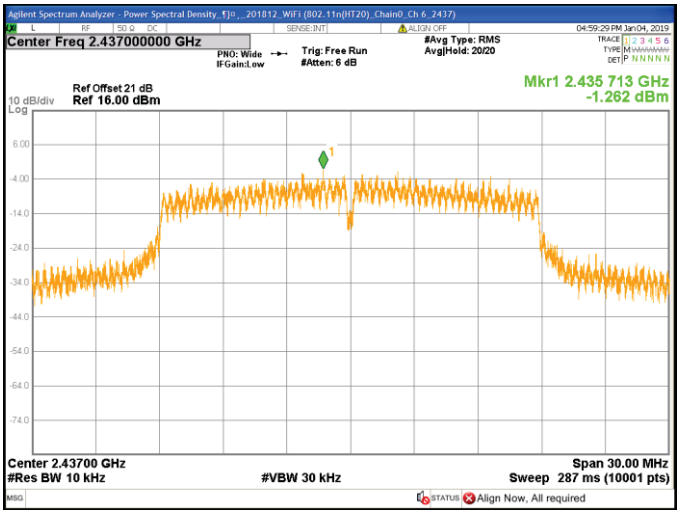
Chain1 : Power Spectral Density @ 802.11g Mode Ch11



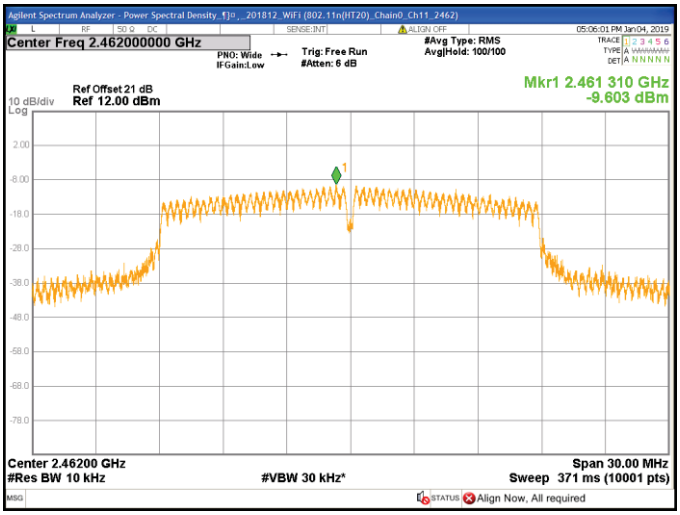
Chain0 : Power Spectral Density @ 802.11n(HT20) Mode Ch 1



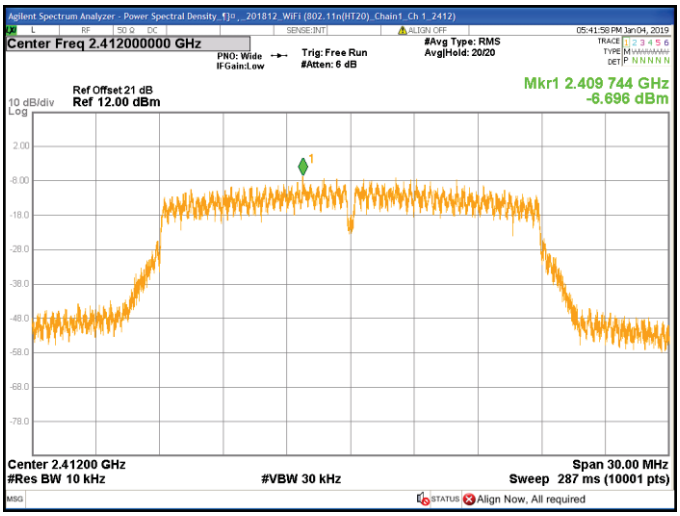
Chain0 : Power Spectral Density @ 802.11n(HT20) Mode Ch 6



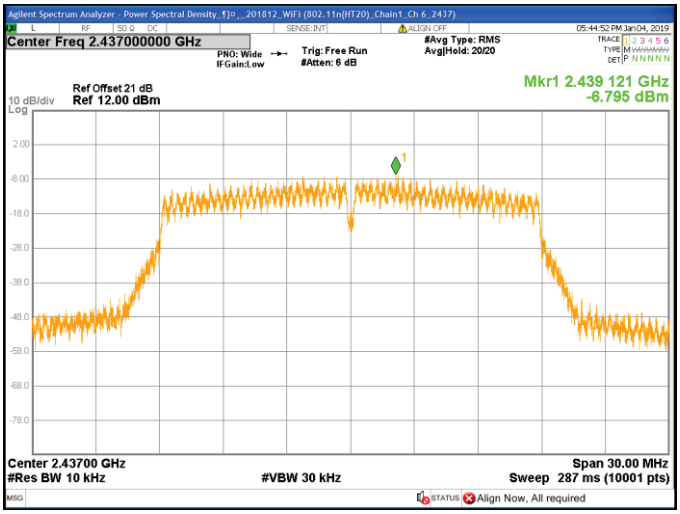
Chain0 : Power Spectral Density @ 802.11n(HT20) Mode Ch11



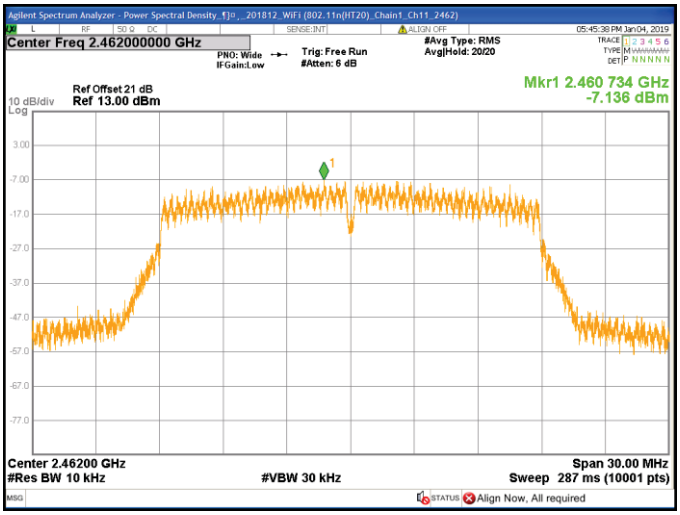
Chain1 : Power Spectral Density @ 802.11n(HT20) Mode Ch 1



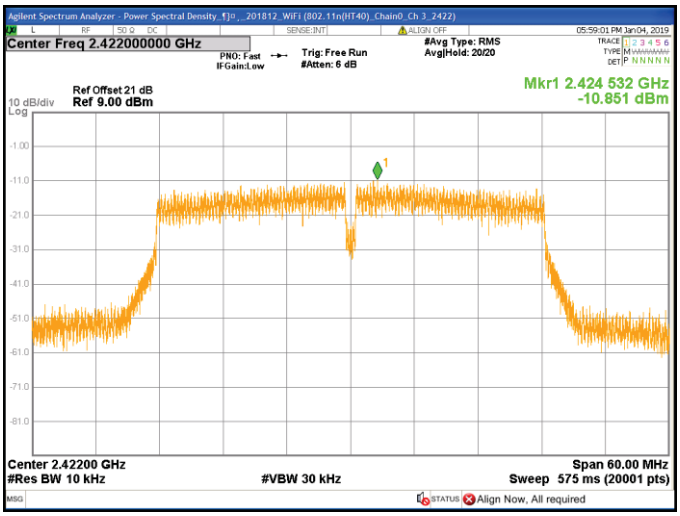
Chain1 : Power Spectral Density @ 802.11n(HT20) Mode Ch 6



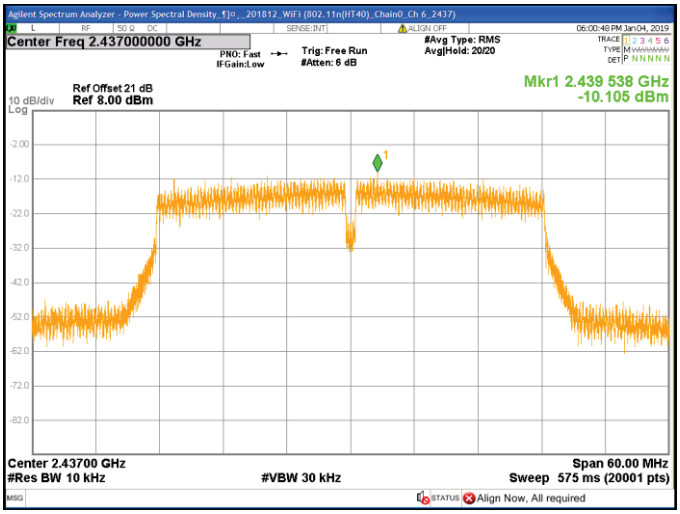
Chain1 : Power Spectral Density @ 802.11n(HT20) Mode Ch11



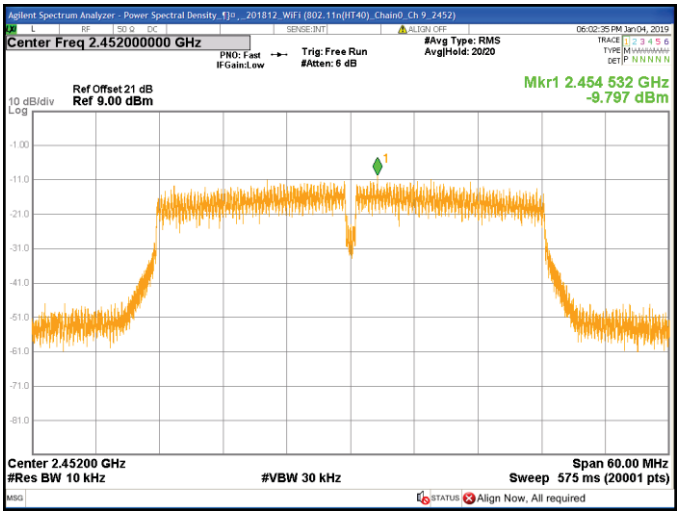
Chain0 : Power Spectral Density @ 802.11n(HT40) Mode Ch 3



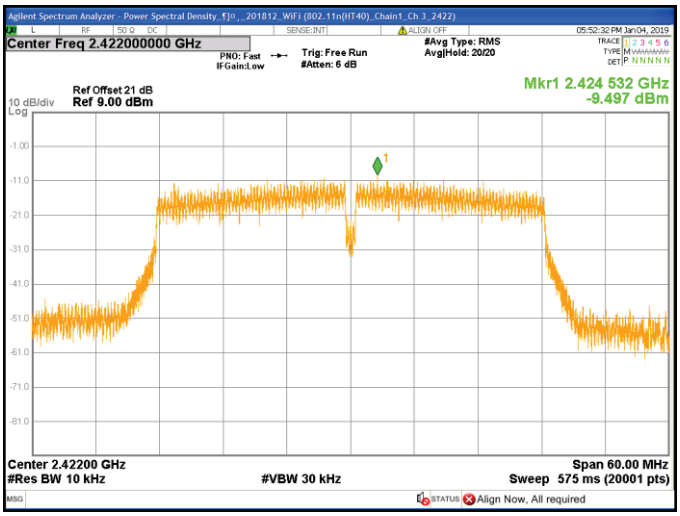
Chain0 : Power Spectral Density @ 802.11n(HT40) Mode Ch 6



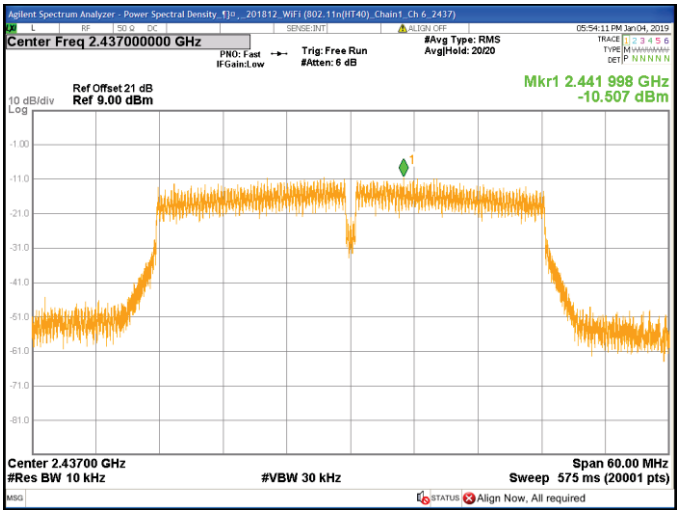
Chain0 : Power Spectral Density @ 802.11n(HT40) Mode Ch9



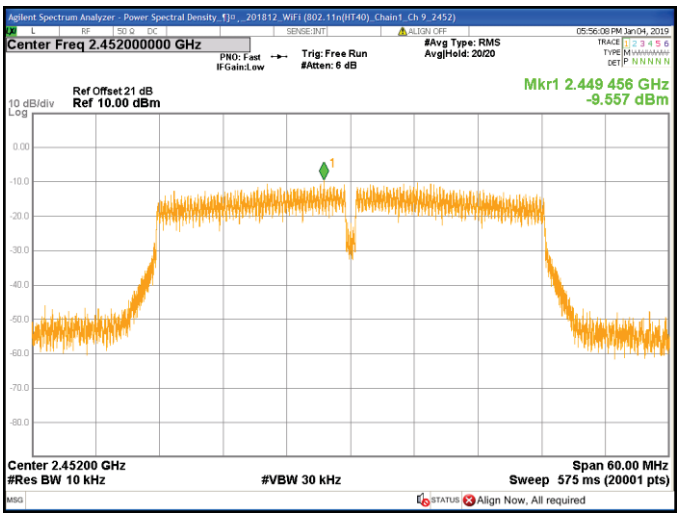
Chain1 : Power Spectral Density @ 802.11n(HT40) Mode Ch 3



Chain1 : Power Spectral Density @ 802.11n(HT40) Mode Ch 6



Chain1 : Power Spectral Density @ 802.11n(HT40) Mode Ch9



5.Emissions in Non-Restricted Frequency Bands

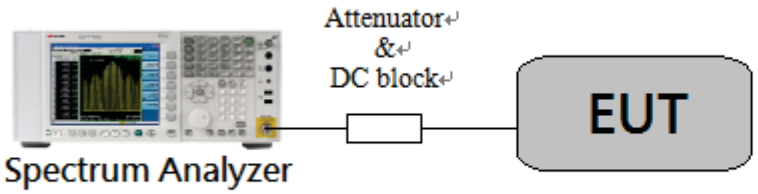
5.1 Instruments Setting

Spectrum Function	Setting (Reference Level)	Setting (Emission Level)
Detector	Peak	Peak
RBW	≧ 100 kHz	≧ 100 kHz
VBW	≧ 3 x RBW	≧ 3 x RBW
Sweep	Auto couple	Auto couple
Trace	Max hold	Max hold
Span	≧ 1.5 time 6dB bandwidth	
Attenuation	Auto	Auto

5.2 Test Procedure

Step 1 The procedure was used in antenna-port conducted and connected to the spectrum analyzer.
Step 2 Set instrument center frequency to center frequency.
Step 3 Use the parameter configured in clause 5.1 to measure.
Step 4 Use the peak marker function to determine the maximum amplitude level.

5.3 Test Diagram



5.4 Limit

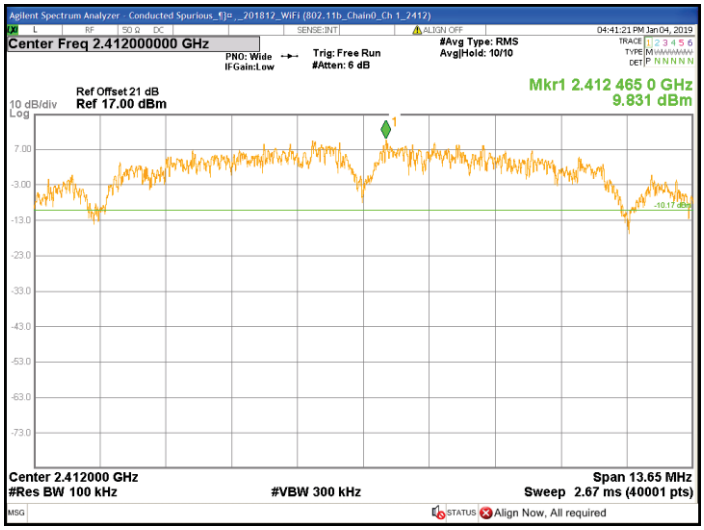
The peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz

5.5 Operating Environment Condition

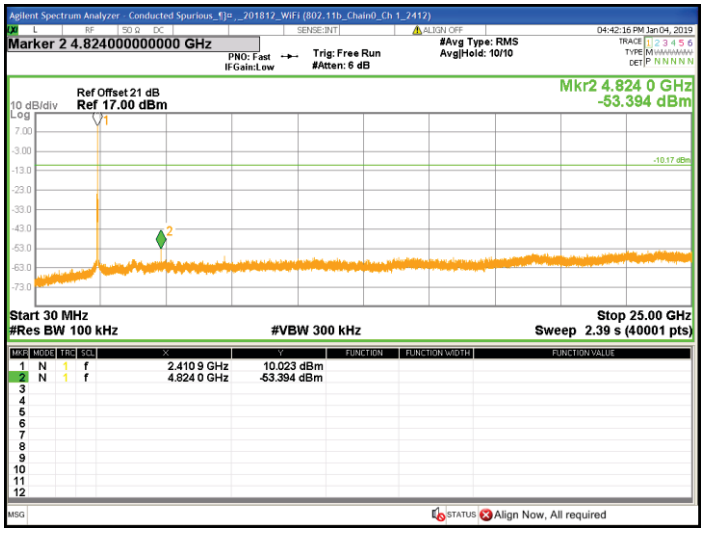
Temperature (℃) :	25
Relative Humidity (%) :	50
Atmospheric Pressure (hPa) :	1008
Test Date :	2019/1/4

3.6 Test Results

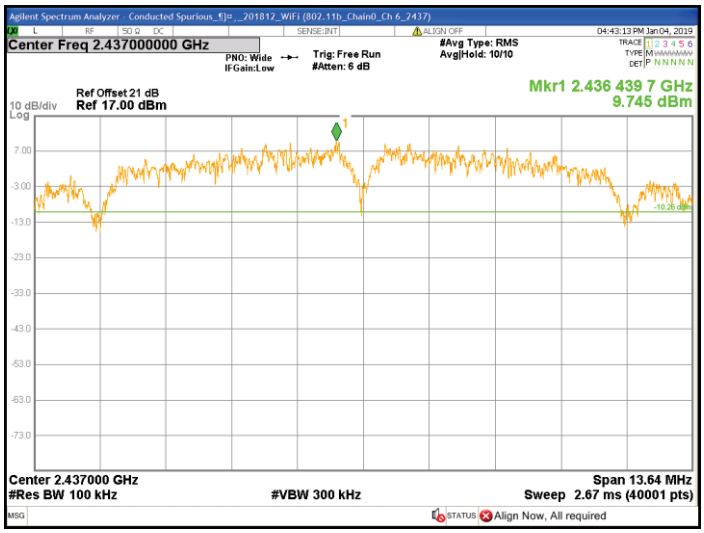
Chain0 : Conducted Spurious @ 802.11b Mode Ch 1



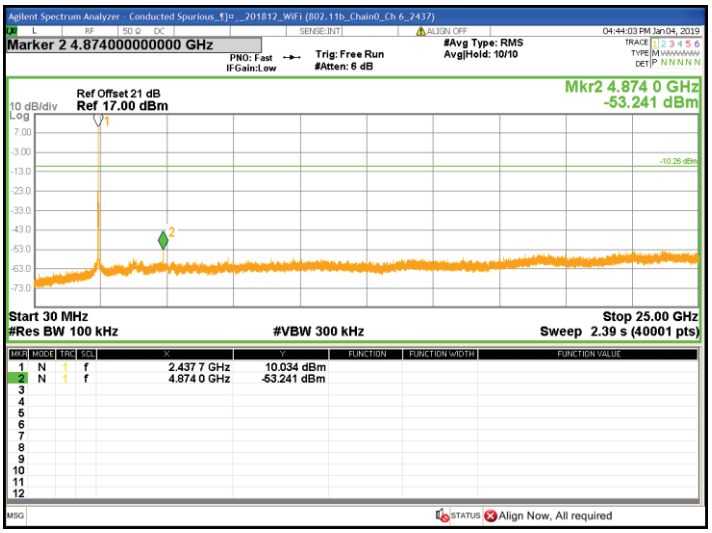
Chain0 : Conducted Spurious @ 802.11b Mode Ch 1



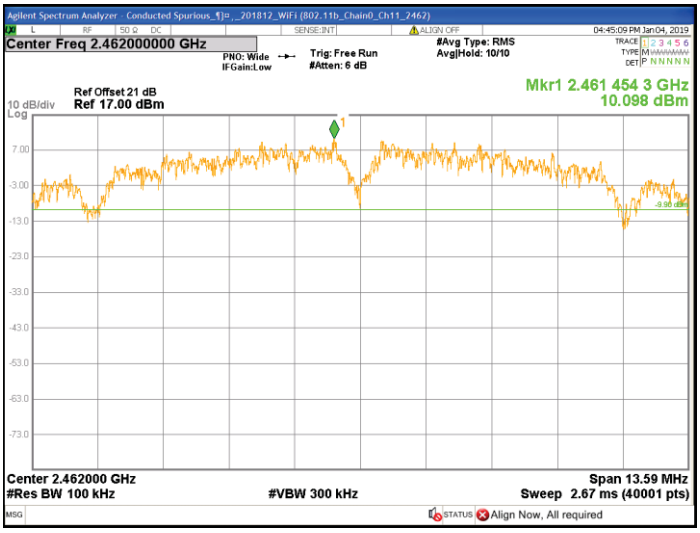
Chain0 : Conducted Spurious @ 802.11b Mode Ch 6



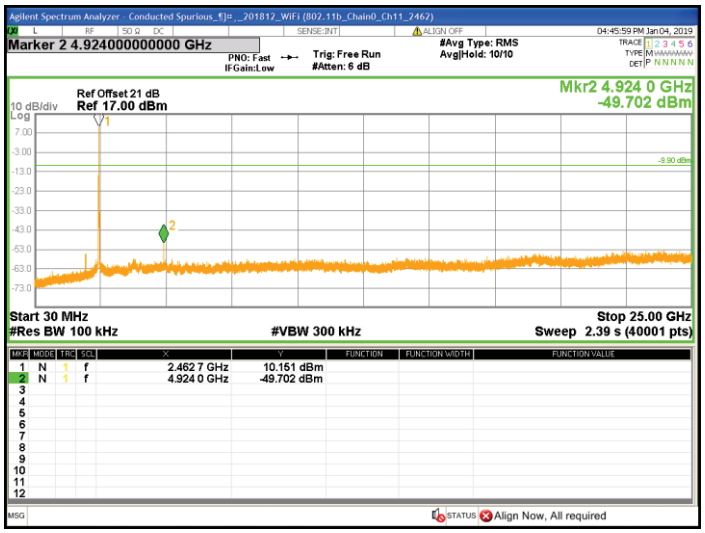
Chain0 : Conducted Spurious @ 802.11b Mode Ch 6



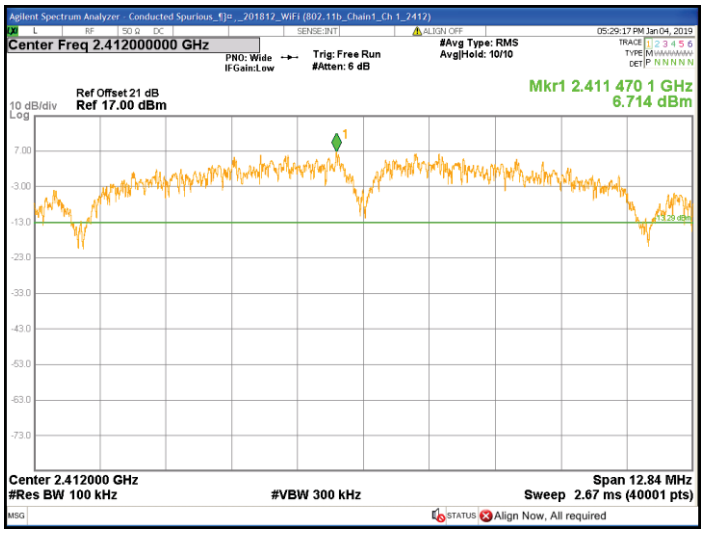
Chain0 : Conducted Spurious @ 802.11b Mode Ch11



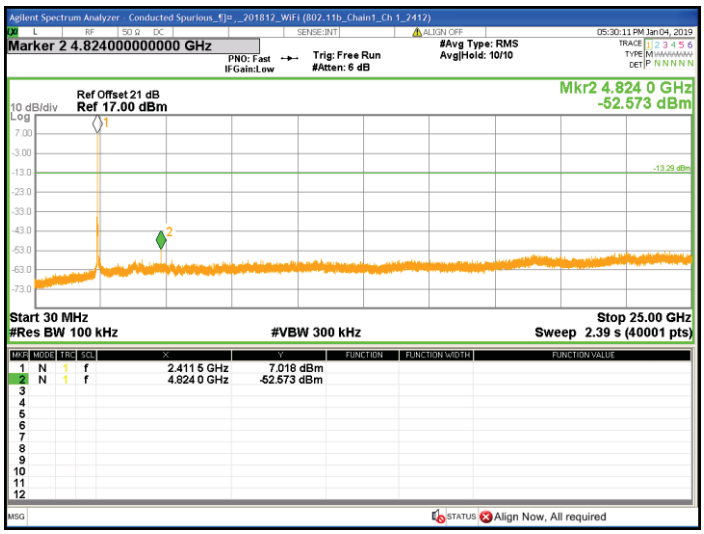
Chain0 : Conducted Spurious @ 802.11b Mode Ch11



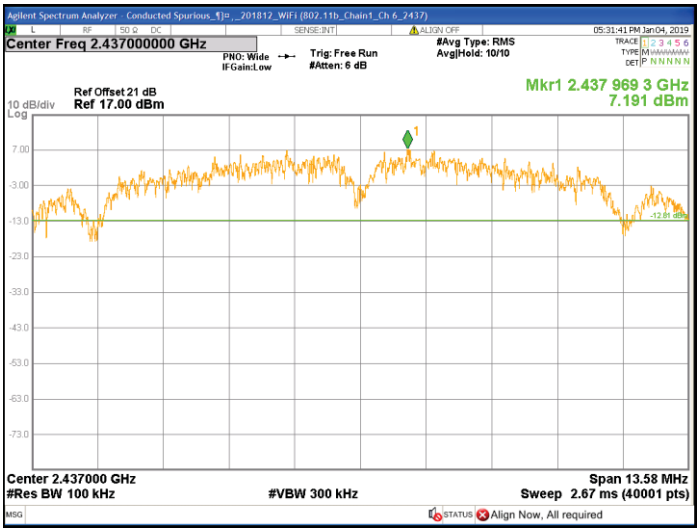
Chain1 : Conducted Spurious @ 802.11b Mode Ch 1



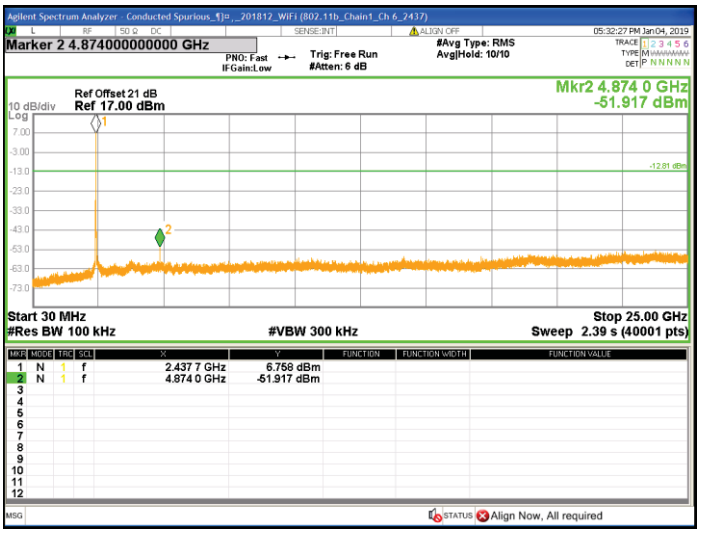
Chain1 : Conducted Spurious @ 802.11b Mode Ch 1



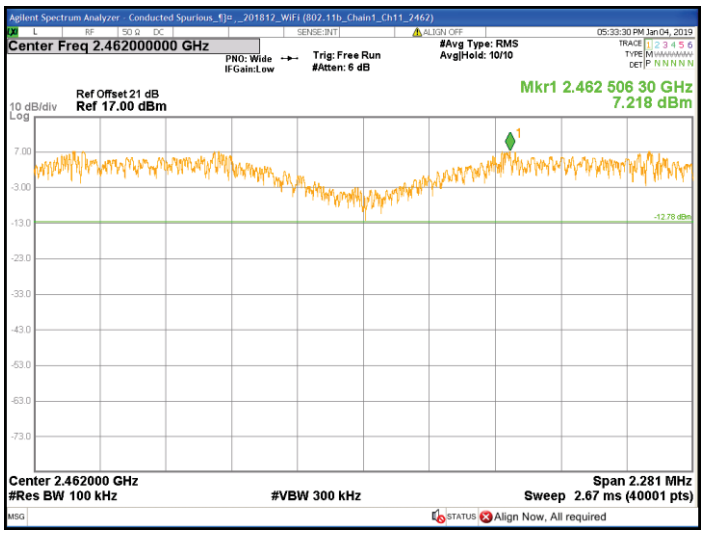
Chain1 : Conducted Spurious @ 802.11b Mode Ch 6



Chain1 : Conducted Spurious @ 802.11b Mode Ch 6



Chain1 : Conducted Spurious @ 802.11b Mode Ch11



Chain1 : Conducted Spurious @ 802.11b Mode Ch11