TEST REPORT

of

FCC Part 15 Subpart C §15.247

FCC ID: 2AF4XAPPBOT-RILEY

Equipment Under Test	:	HOME CAMERA
Model Name	:	APPBOT-RILEY
Applicant	:	VARRAM SYSTEM Co., Ltd.
Manufacturer	:	VARRAM SYSTEM Co., Ltd.
Date of Receipt	:	2017.09.27
Date of Test(s)	:	2017.10.31 ~ 2017.11.09
Date of Issue	:	2017.11.09

In the configuration tested, the EUT complied with the standards specified above.

Tested By: **Jinhyoung Cho** **Date:** **2017.11.09**

Technical Manager: **Jungmin Yang** **Date:** **2017.11.09**

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1. General Information

1.1. Testing Laboratory

SGS Korea Co., Ltd. (Gunpo Laboratory)
- Wireless Div. 2FL, 10-2, LS-ro 182beon-gil, Gunpo-si, Gyeonggi-do, Korea, 15807

All SGS services are rendered in accordance with the applicable SGS conditions of service available on request and accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx.
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1.2. Details of Applicant

Applicant : VARRAM SYSTEM Co., Ltd.
Address : 2 Floors, Dadong, 55-1, Techno 11-ro, Yuseong-gu, Daejeon, 34036, Korea
Contact Person : Jung, Ju-Yong
Phone No. : +82 70 8797 8920

1.3. Details of manufacturer

Applicant : Same as applicant
Address : Same as applicant

1.4. Description of EUT

Kind of Product	HOME CAMERA
Model Name	APPBOT-RELEY
Power Supply	DC 3.6 V
Frequency Range	2 412 ㎒ ~ 2 462 ㎒ (11b/g/n_HT20), 2 422 ㎒ ~ 2 452 ㎒ (11n_HT40)
Modulation Technique	DSSS, OFDM
Number of Channels	11 channels (11b/g/n_HT20), 7 channels (11n_HT40)
Antenna Type	PCB Antenna
Antenna Gain	0 ㏈i
H/W version	ABR-HW_V1.1
S/W version	ABR-SW_V1.0

1.5. Test Equipment List

Equipment	Manufacturer	Model	S/N	Cal. Date	Cal. Interval	Cal. Due
Signal Generator	R&S	SMR40	100272	Jun. 16, 2017	Annual	Jun. 16, 2018
Signal Generator	R&S	SMBV100A	255834	Jun. 15, 2017	Annual	Jun. 15, 2018
Spectrum Analyzer	R&S	FSV30	103102	Jun. 10, 2017	Annual	Jun. 10, 2018
Spectrum Analyzer	Agilent	N9030A	MY53120526	Jun. 21, 2017	Annual	Jun. 21, 2018
Attenuator	AEROFLEX / INMET	18N-20 dB	2	Feb. 24, 2017	Annual	Feb. 24, 2018
High Pass Filter	Wainwright Instrument GmbH	WHK3.0/18G-10SS	344	May 28, 2017	Annual	May 28, 2018
High Pass Filter	Wainwright Instrument GmbH	WHNX7.5/26.5G-6SS	11	May 28, 2017	Annual	May 28, 2018
Low Pass Filter	Mini-Circuits	NLP-1200+	V 8979400903-2	Feb. 21, 2017	Annual	Feb. 21, 2018
Power Sensor	R&S	NRP-Z81	100669	Feb. 23, 2017	Annual	Feb. 23, 2018
DC Power Supply	Agilent	U8002A	MY50060028	Mar. 16, 2017	Annual	Mar. 16, 2018
Preamplifier	H.P.	8447F	2944A03909	Aug. 11, 2017	Annual	Aug. 11, 2018
Preamplifier	R&S	SCU-18	10117	Apr. 08, 2017	Annual	Apr. 08, 2018
Preamplifier	MITEQ Inc.	JS44-18004000-35-8P	1546891	May 15, 2017	Annual	May 15, 2018
Loop Antenna	Schwarzbeck Mess-Elektronik	FMZB 1519	1519-039	Aug. 23, 2017	Biennial	Aug. 23, 2019
Bilog Antenna	Schwarzbeck Mess-Elektronik	VULB9168	506	Nov. 25, 2016	Biennial	Nov. 25, 2018
Horn Antenna	R&S	HF906	100326	Feb. 01, 2016	Biennial	Feb. 01, 2018
Horn Antenna	Schwarzbeck Mess-Elektronik	BBHA 9170	BBHA9170431	Aug. 25, 2016	Biennial	Aug. 25, 2018
Antenna Master	INNCO systems GmbH	MA4640-XP-ET	MA4640/536/383 30516/L	N.C.R.	N/A	N.C.R.
Controller	INNCO systems GmbH	CONTROLLER CO3000-4P	CO3000/963/383 30516/L	N.C.R.	N/A	N.C.R.
Turn Table	INNCO systems GmbH	DS 1200 S	N/A	N.C.R.	N/A	N.C.R.
Test Receiver	R&S	ESU26	100109	Feb. 17, 2017	Annual	Feb. 17, 2018
Anechoic Chamber	SY Corporation	L × W × H (9.6 m × 6.4 m × 6.6 m)	N/A	N.C.R.	N/A	N.C.R.
Test Receiver	R&S	ESCI 7	100911	Feb. 22, 2017	Annual	Feb. 22, 2018
Two-Line V-Network	R&S	ENV216	100190	Dec. 21, 2016	Annual	Dec. 21, 2017
Shield Room	SY Corporation	L × W × H (6.5 m × 3.5 m × 3.5 m)	N/A	N.C.R.	N/A	N.C.R.
Coaxial Cable	SUCOFLEX	104 (3 m)	MY3258414	N.C.R.	N/A	N.C.R.
Coaxial Cable	SUCOFLEX	104 (10 m)	MY3145814	N.C.R.	N/A	N.C.R.

1.6. Summary of Test Results

The EUT has been tested according to the following specifications:

APPLIED STANDARD: FCC Part15 Subpart C		
Standard section	**Test Item(s)**	**Result**
15.205(a) 15.209 15.247(d)	Transmitter Radiated Spurious Emissions Conducted Spurious Emission	Complied
15.247(a)(2)	6 dB Bandwidth	Complied
15.247(b)(3)	Maximum Peak Conducted Output Power	Complied
15.247(e)	Power Spectral Density	Complied
15.207	AC Power Line Conducted Emission	Complied

1.7. Test Procedure(s)

The measurement procedures described in the American National Standard of Procedure for Compliance Testing of unlicensed Wireless Devices (ANSI C63.10-2013) and the guidance provided in KDB 558074 D01 DTS Meas Guidance v04 were used in the measurement of the DUT.

1.8. Sample calculation

Where relevant, the following sample calculation is provided:

1.8.1. Conducted test

Offset value (dB) = Attenuator (dB) + Cable loss (dB)

1.8.2. Radiation test

Field strength level (dBμV/m) = Measured level (dBμV) + Antenna factor (dB) + Cable loss (dB) - Amplifier gain (dB)

1.9. Test report revision

Revision	Report number	Date of Issue	Description
0	F690501/RF-RTL011979	2017.11.09	Initial

1.10. Duty Cycle of EUT

Regarding to KDB 558074 D01 DTS Meas Guidance v04, 6.0, the maximum duty cycles of all modes were investigated and set the spectrum analyzer as below:
Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are > 50/T and the number of sweep points across duration T exceeds 100.

Mode	Data Rate	Duty Cycle (%)	Correction factor (dB)
11b	1 Mbps	100	0
11g	6 Mbps	100	0
11n_HT20	MCS0	100	0
11n_HT40	MCS0	100	0

Remark:

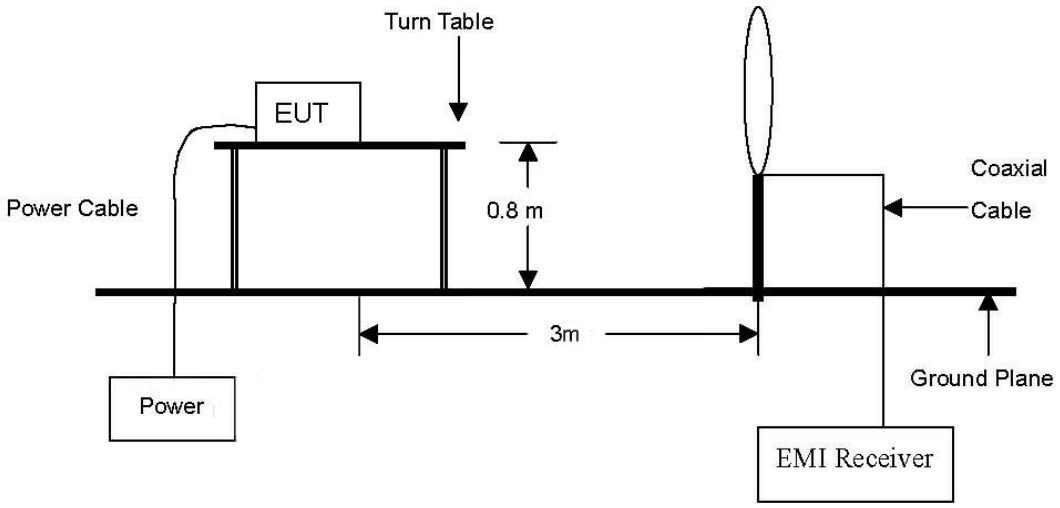
1. As measured duty cycles of EUT, all of mode and data rate keep constant period and are converted to log scale (power averaging) to compensate correction factor to result of average test items.
2. Duty Cycle (%) = (Tx on time / Tx on + off time) x 100
3. Correction factor (dB) = 10 log (1 / Duty Cycle)

2. Transmitter Radiated Spurious Emissions and Conducted Spurious Emission

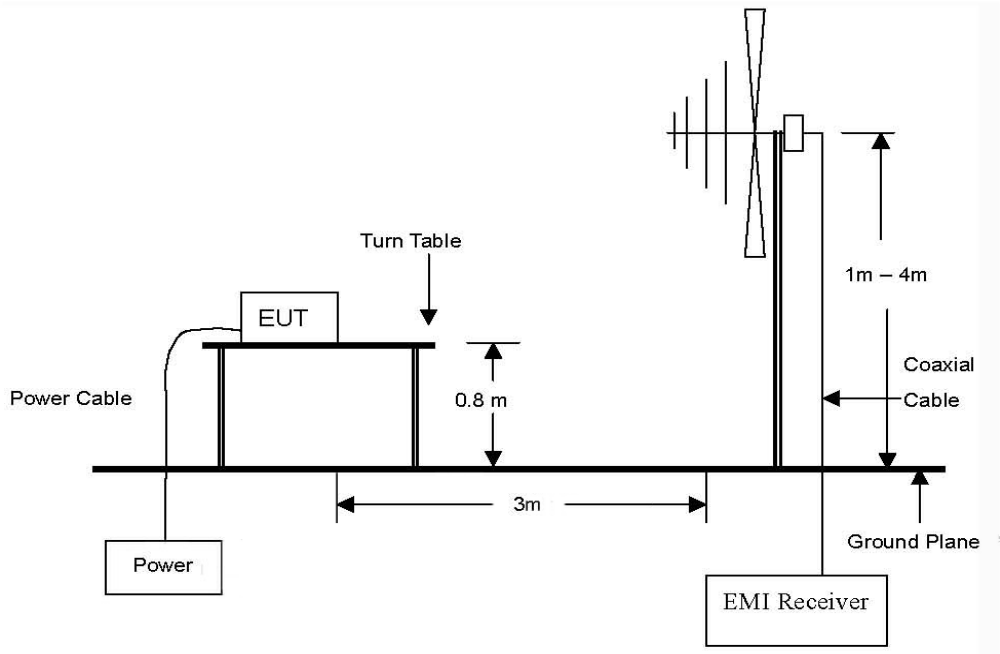
2.1. Test Setup

2.1.1. Transmitter Radiated Spurious Emissions

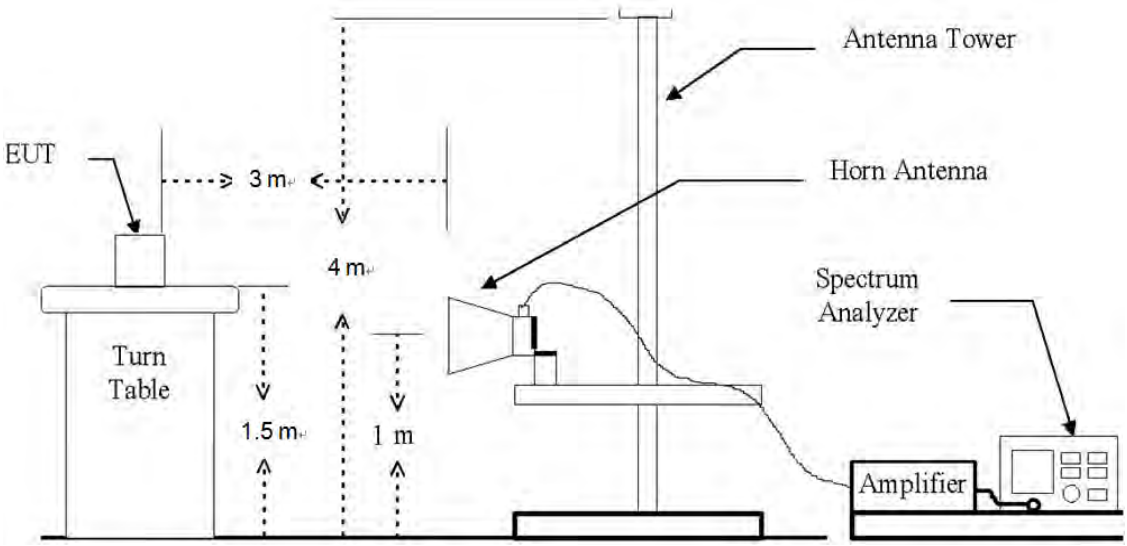
The diagram below shows the test setup that is utilized to make the measurements for emission from 9 ㎑ to 30 ㎒.



The diagram below shows the test setup that is utilized to make the measurements for emission from 30 ㎒ to 1 ㎓.



The diagram below shows the test setup that is utilized to make the measurements for emission. The spurious emissions were investigated form 1 ㎓ to the 10th harmonic of the highest fundamental frequency or 40 ㎓, whichever is lower.



2.1.2. Conducted Spurious Emission

2.2. Limit

§15.247(d), in any 100 ㎑ 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 ㏈ below that in the 100 ㎑ 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 ㏈ instead of 20 ㏈. Attenuation below the general limits specified in section §15.209(a) is not required. In addition, radiated emission which in the restricted band, as define in section §15.205(a), must also comply the radiated emission limits specified in section §15.209(a) (see §15.205(c)).

§15.209(a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (㎒)	Measurement Distance (meters)	Field Strength (㏈㎶/m)	Field Strength (㎶/m)
0.009-0.490	300	20 log (2 400/F(㎑))	2 400/F(㎑)
0.490-1.705	30	20 log (24 000/F(㎑))	24 000/F(㎑)
1.705-30.0	30	29.54	30
30-88	3	40.0	100**
88-216	3	43.5	150**
216-960	3	46.0	200**
Above 960	3	54.0	500

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 ㎒, 76-88 ㎒, 174-216 ㎒ or 470-806 ㎒. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections §15.231 and §15.241.

2.3. Test Procedures

Radiated emissions from the EUT were measured according to the dictates in section 11.0 & 12.0 of KDB 558074 D01 DTS Meas Guidance v04 and ANSI C63.10-2013.

2.3.1. Test Procedures for emission below 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
2. Then antenna is a loop antenna is fixed at one meter above the ground to determine the maximum value of the field strength. Both parallel and perpendicular of the antenna are set to make the measurement.
3. For each suspected emission, the EUT was arranged to its worst case and then the table was turned from 0 degrees to 360 degrees to find the maximum reading.
4. The test-receiver system was set to average or quasi peak detect function and Specified Bandwidth with Maximum Hold Mode.

Note;

Although these tests were performed other than open field test site, adequate comparison measurements were confirmed against 30 meter open field test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788 D01 Radiated Test Site v01.

2.3.2. Test Procedures for emission from above 30 ㎒

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter anechoic chamber test site below 1 ㎓ and 1.5 meters above the ground at a 3 meter anechoic chamber test site above 1 ㎓. The table was rotated 360 degrees to determine the position of the highest radiation.
2. During performing radiated emission below 1 ㎓, the EUT was set 3 meters away from the interference receiving antenna, which was mounted on the top of a variable-height antenna tower. During performing radiated emission above 1 ㎓, the EUT was set 3 meter away from the interference-receiving antenna.
3. The antenna is a bi-log antenna, a horn antenna and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
6. If the emission level of the EUT in peak mode was 10 ㏈ lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 ㏈ margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

NOTE;

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

1. Unwanted Emissions into Non-Restricted Frequency Bands

- The Reference Level Measurement refer to section 11.2
  Set analyzer center frequency to DTS channel center frequency, SPAN ≥ 1.5 times the DTS bandwidth, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Sweep time = Auto couple, Trace mode = Max hold.

- Unwanted Emissions Level Measurement refer to section 11.3
  Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Sweep time = Auto couple, Trace mode = Max hold.

2. Unwanted Emissions into Restricted Frequency Bands

- Peak Power measurement procedure refer to section 12.2.4
  Set RBW = as specified in Table 1, VBW ≥ 3 x RBW, Detector = Peak, Sweep time = Auto couple, Trace mode = Max hold.

Table 1- RBW as a function of frequency

Frequency	RBW
9-150 ㎑	200-300 ㎐
0.15-30 ㎒	9-10 ㎑
30-1 000 ㎒	100-120 ㎑
> 1 000 ㎒	1 ㎒

- Average Power measurements procedure refer to section 12.2.5.1
Set RBW = 1 ㎒, VBW ≥ 3 x RBW, Detector = RMS, if span / (# of points in sweep) ≤ (RBW/2). Satisfying this condition may require increasing the number of points in the sweep or reducing the span. If this condition cannot be satisfied then the detector mode shall be set to peak.

Averaging type = power (i.e., RMS).
As an alternative the detector and averaging type may be set for linear voltage averaging.
Some instruments require linear display mode in order to use linear voltage averaging. Log or ㏈ averaging shall not be used. Sweep time = auto, Perform a trace average of at least 100 traces.

3. Definition of DUT Axis.

Definition of the test orthogonal plan for EUT was described in the test setup photo.
The test orthogonal plan of EUT is **X – axis** during radiation test.

2.3.3. Test Procedures for Conducted Spurious Emissions

All data rates and modes were investigated for radiated spurious emissions. Only the radiated emissions of the configuration that produced the worst case emissions are reported in this section.

Per the guidance of KDB 558074 D01 DTS Meas Guidance v04, section 11.1 & 11.2 & 11.3, the reference level for out of band emissions is established from the plots of this section since the band edge emissions are measured with a RBW of 100 ㎑. This reference level is then used as the limit in subsequent plots for out of band spurious emissions shown in section 2.4.3. The limit for out of band spurious emission at the band edge is 20 ㏈ below the fundamental emission level measured in a 100 ㎑ bandwidth.

1. Conducted Emissions at Band Edge
 - The Measurement refer to section 11.2
   Set the center frequency and span to encompass frequency range to be measured, the RBW = 100 ㎑ and VBW ≥ 3 x RBW, Detector = Peak, Sweep time = Auto couple, Trace mode = Max hold, Ensure that the number of measurement points ≥ span/RBW, The trace was allowed to stabilize.

2. Conducted Spurious Emissions
 - The Measurement refer to section 11.3
   Start frequency was set to 9 ㎑ and stop frequency was set to 25 ㎓ (separated into two plots per channel), RBW = 100 ㎑, VBW ≥ 3 x RBW, Detector = Peak, Sweep time = Auto couple, Trace = Max hold, The trace was allowed to stabilize.

3. TDF function
 - For plots showing conducted spurious emissions from 9 ㎑ to 25 ㎓, all path loss of wide frequency range was investigated and compensated to spectrum analyzer as TDF function.
   So, the reading values shown in plots were final result.

2.4. Test Results

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

2.4.1. Radiated Spurious Emission below 1 000 ㎒

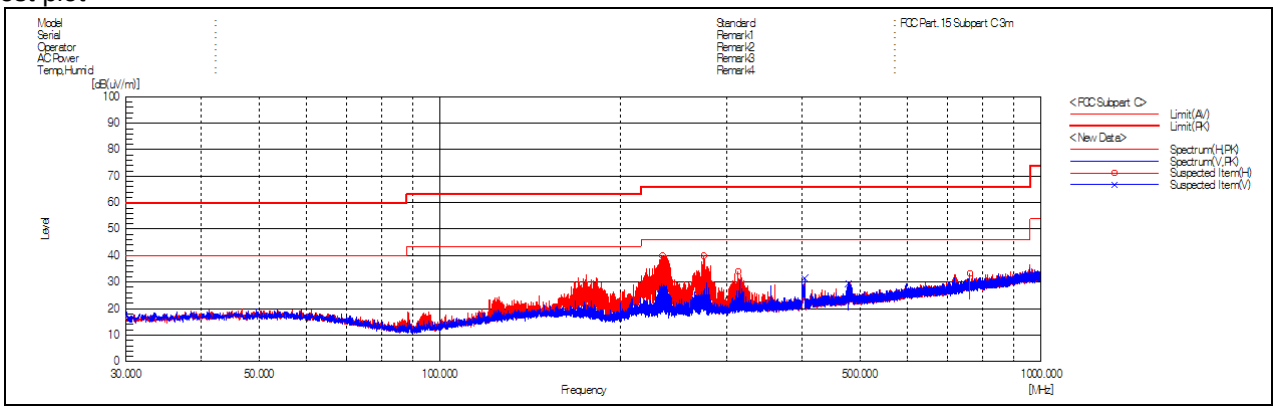
The frequency spectrum from 9 ㎑ to 1 000 ㎒ was investigated.

Radiated Emissions			Ant	Correction Factors		Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP + CL (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
234.59	54.30	Peak	H	10.48	-25.34	39.44	46.00	6.56
274.89	52.10	Peak	H	13.00	-25.07	40.03	46.00	5.97
313.48	45.20	Peak	H	13.90	-24.96	34.14	46.00	11.86
404.82	41.20	Peak	V	15.70	-25.32	31.58	46.00	14.42
478.59	37.50	Peak	V	17.47	-25.65	29.32	46.00	16.68
762.23	35.80	Peak	H	22.10	-24.69	33.21	46.00	12.79
Above 800.00	Not detected	-	-	-	-	-	-	-

Remark;

1. Spurious emissions for all channels were investigated and almost the same below 1 ㎓.
2. Reported spurious emissions are in **11b / 1 Mbps / High channel** as worst case among other modes.
3. Radiated spurious emission measurement as below.
   (Actual = Reading + AF + AMP + CL)
4. According to §15.31(o), emission levels are not report much lower than the limits by over 20 ㏈.

Test plot



2.4.2. Radiated Spurious Emission above 1 000 ㎒

The frequency spectrum above 1 000 ㎒ was investigated. All reading values are peak and average values.

DSSS: 802.11b (1 Mbps)

Low Channel (2 412 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 310.00	15.17	Peak	V	28.07	6.92	-	50.16	74.00	23.84
*2 310.00	3.69	Average	V	28.07	6.92	-	38.68	54.00	15.32
*2 385.52	18.07	Peak	V	28.14	7.00	-	53.21	74.00	20.79
*2 332.94	6.17	Average	V	28.09	6.94	-	41.20	54.00	12.80
*2 390.00	16.53	Peak	V	28.15	6.97	-	51.65	74.00	22.35
*2 390.00	5.48	Average	V	28.15	6.97	-	40.60	54.00	13.40

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 823.88	41.69	Peak	H	32.71	-28.14	-	46.26	74.00	27.74
*4 824.00	36.95	Average	H	32.71	-28.14	-	41.52	54.00	12.48
Above 4 900.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 874.01	38.51	Peak	H	32.84	-28.02	-	43.33	74.00	30.67
*4 873.91	30.29	Average	H	32.84	-28.02	-	35.11	54.00	18.89
Above 4 900.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	16.67	Peak	V	28.24	7.27	-	52.18	74.00	21.82
*2 483.50	6.08	Average	V	28.24	7.27	-	41.59	54.00	12.41
*2 488.83	17.11	Peak	V	28.25	7.24	-	52.60	74.00	21.40
*2 484.71	6.21	Average	V	28.24	7.26	-	41.71	54.00	12.29
*2 500.00	15.84	Peak	V	28.26	7.19	-	51.29	74.00	22.71
*2 500.00	5.33	Average	V	28.26	7.19	-	40.78	54.00	13.22

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 923.97	37.27	Peak	H	32.98	-27.58	-	42.67	74.00	31.33
*4 923.90	29.24	Average	H	32.98	-27.58	-	34.64	54.00	19.36
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11g (6 Mbps)

Low Channel (2 412 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 310.00	14.77	Peak	V	28.07	6.92	-	49.76	74.00	24.24
*2 310.00	3.95	Average	V	28.07	6.92	-	38.94	54.00	15.06
*2 338.31	16.70	Peak	V	28.10	6.93	-	51.73	74.00	22.27
*2 325.13	4.87	Average	V	28.08	6.97	-	39.92	54.00	14.08
*2 390.00	15.18	Peak	V	28.15	6.97	-	50.30	74.00	23.70
*2 390.00	4.48	Average	V	28.15	6.97	-	39.60	54.00	14.40

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 824.06	40.60	Peak	H	32.71	-28.14	-	45.17	74.00	28.83
*4 823.94	33.35	Average	H	32.71	-28.14	-	37.92	54.00	16.08
Above 4 900.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 874.19	38.30	Peak	H	32.84	-28.02	-	43.12	74.00	30.88
*4 873.95	30.24	Average	H	32.84	-28.02	-	35.06	54.00	18.94
Above 4 900.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	15.38	Peak	V	28.24	7.27	-	50.89	74.00	23.11
*2 483.50	4.58	Average	V	28.24	7.27	-	40.09	54.00	13.91
*2 495.21	16.51	Peak	V	28.26	7.21	-	51.98	74.00	22.02
*2 485.29	4.91	Average	V	28.24	7.26	-	40.41	54.00	13.59
*2 500.00	14.10	Peak	V	28.26	7.19	-	49.55	74.00	24.45
*2 500.00	4.24	Average	V	28.26	7.19	-	39.69	54.00	14.31

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 924.02	37.11	Peak	H	32.98	-27.58	-	42.51	74.00	31.49
*4 923.88	29.85	Average	H	32.98	-27.58	-	35.25	54.00	18.75
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11n_HT20 (MCS0)

Low Channel (2 412 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 310.00	13.78	Peak	V	28.07	6.92	-	48.77	74.00	25.23
*2 310.00	3.66	Average	V	28.07	6.92	-	38.65	54.00	15.35
*2 325.74	16.97	Peak	V	28.08	6.97	-	52.02	74.00	21.98
*2 327.33	4.97	Average	V	28.08	6.96	-	40.01	54.00	13.99
*2 390.00	14.69	Peak	V	28.15	6.97	-	49.81	74.00	24.19
*2 390.00	4.42	Average	V	28.15	6.97	-	39.54	54.00	14.46

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 823.61	39.98	Peak	H	32.71	-28.13	-	44.56	74.00	29.44
*4 823.91	32.62	Average	H	32.71	-28.14	-	37.19	54.00	16.81
Above 4 900.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 873.52	38.75	Peak	H	32.84	-28.02	-	43.57	74.00	30.43
*4 873.98	30.09	Average	H	32.84	-28.02	-	34.91	54.00	19.09
Above 4 900.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 462 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	14.44	Peak	V	28.24	7.27	-	49.95	74.00	24.05
*2 483.50	4.61	Average	V	28.24	7.27	-	40.12	54.00	13.88
*2 485.93	16.61	Peak	V	28.25	7.26	-	52.12	74.00	21.88
*2 483.96	4.80	Average	V	28.24	7.27	-	40.31	54.00	13.69
*2 500.00	14.25	Peak	V	28.26	7.19	-	49.70	74.00	24.30
*2 500.00	4.62	Average	V	28.26	7.19	-	40.07	54.00	13.93

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 923.85	38.14	Peak	H	32.98	-27.58	-	43.54	74.00	30.46
*4 924.03	29.87	Average	H	32.98	-27.58	-	35.27	54.00	18.73
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-

OFDM: 802.11n_HT40 (MCS0)

Low Channel (2 422 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 310.00	14.08	Peak	V	28.07	6.92	-	49.07	74.00	24.93
*2 310.00	2.81	Average	V	28.07	6.92	-	37.80	54.00	16.20
*2 386.66	16.80	Peak	V	28.14	6.99	-	51.93	74.00	22.07
*2 389.30	5.43	Average	V	28.15	6.98	-	40.56	54.00	13.44
*2 390.00	15.05	Peak	V	28.15	6.97	-	50.17	74.00	23.83
*2 390.00	4.96	Average	V	28.15	6.97	-	40.08	54.00	13.92

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 843.95	40.74	Peak	H	32.76	-28.08	-	45.42	74.00	28.58
*4 843.99	33.22	Average	H	32.76	-28.08	-	37.90	54.00	16.10
Above 4 900.00	Not detected	-	-	-	-	-	-	-	-

Middle Channel (2 437 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 874.00	40.13	Peak	H	32.84	-28.02	-	44.95	74.00	29.05
*4 874.02	31.09	Average	H	32.84	-28.02	-	35.91	54.00	18.09
Above 4 900.00	Not detected	-	-	-	-	-	-	-	-

High Channel (2 452 ㎒)

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*2 483.50	15.48	Peak	V	28.24	7.27	-	50.99	74.00	23.01
*2 483.50	4.90	Average	V	28.24	7.27	-	40.41	54.00	13.59
*2 485.06	16.29	Peak	V	28.24	7.26	-	51.79	74.00	22.21
*2 485.76	5.03	Average	V	28.25	7.26	-	40.54	54.00	13.46
*2 500.00	14.92	Peak	V	28.26	7.19	-	50.37	74.00	23.63
*2 500.00	4.05	Average	V	28.26	7.19	-	39.50	54.00	14.50

Radiated Emissions			Ant.	Correction Factors			Total	Limit	
Frequency (㎒)	Reading (dB㎶)	Detect Mode	Pol.	AF (dB/m)	AMP+CL (dB)	Duty (dB)	Actual (dB㎶/m)	Limit (dB㎶/m)	Margin (dB)
*4 903.72	38.45	Peak	H	32.92	-27.81	-	43.56	74.00	30.44
*4 904.04	30.57	Average	H	32.92	-27.81	-	35.68	54.00	18.32
Above 5 000.00	Not detected	-	-	-	-	-	-	-	-

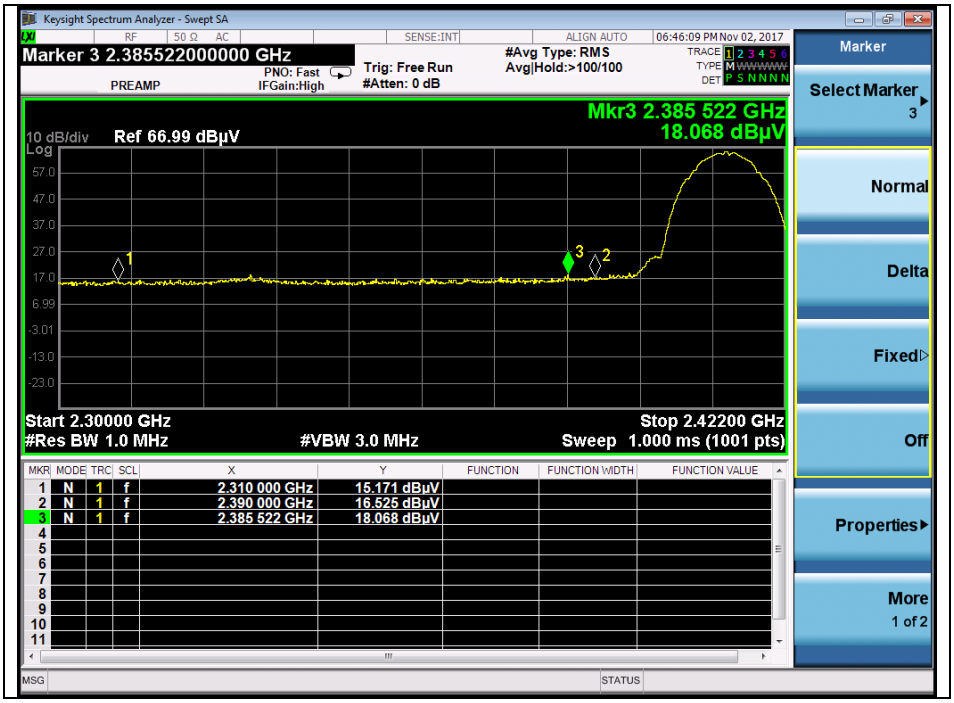
Remarks;

1. "*" means the restricted band.
2. Measuring frequencies from 1 ㎓ to the 10th harmonic of highest fundamental frequency.
3. Radiated emissions measured in frequency above 1 000 ㎒ were made with an instrument using peak/average detector mode.
4. Actual = Reading + AF + AMP + CL or Reading + AF + CL.
5. According to § 15.31(o), emission levels are not reported much lower than the limits by over 20 ㏈.

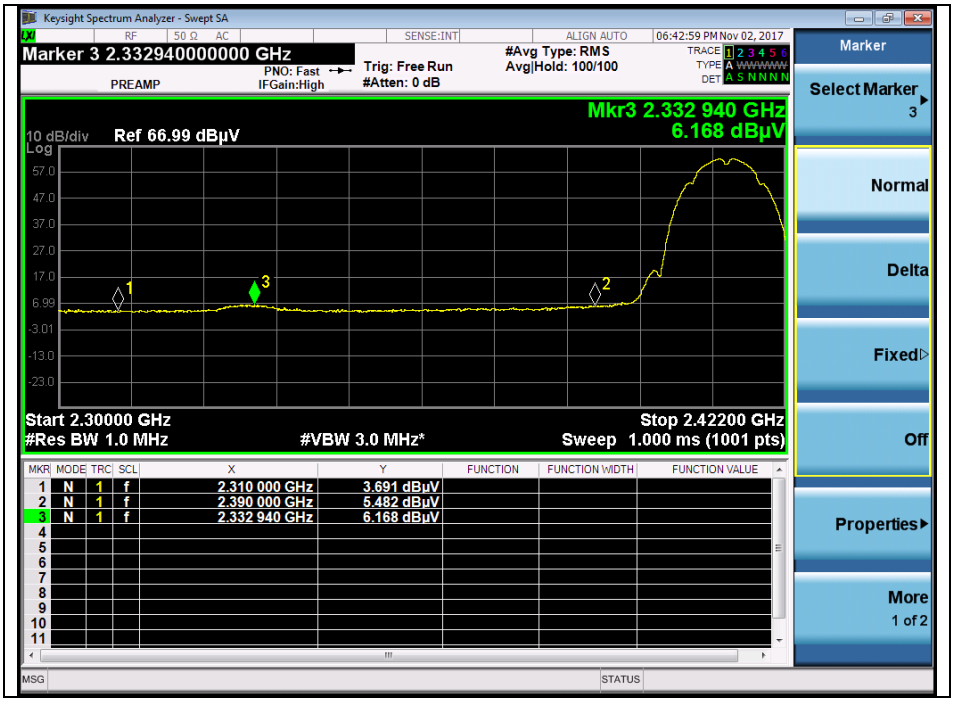
2.4.3. Plot of Transmitter Radiated Spurious Emissions

DSSS: 802.11b (1 Mbps)

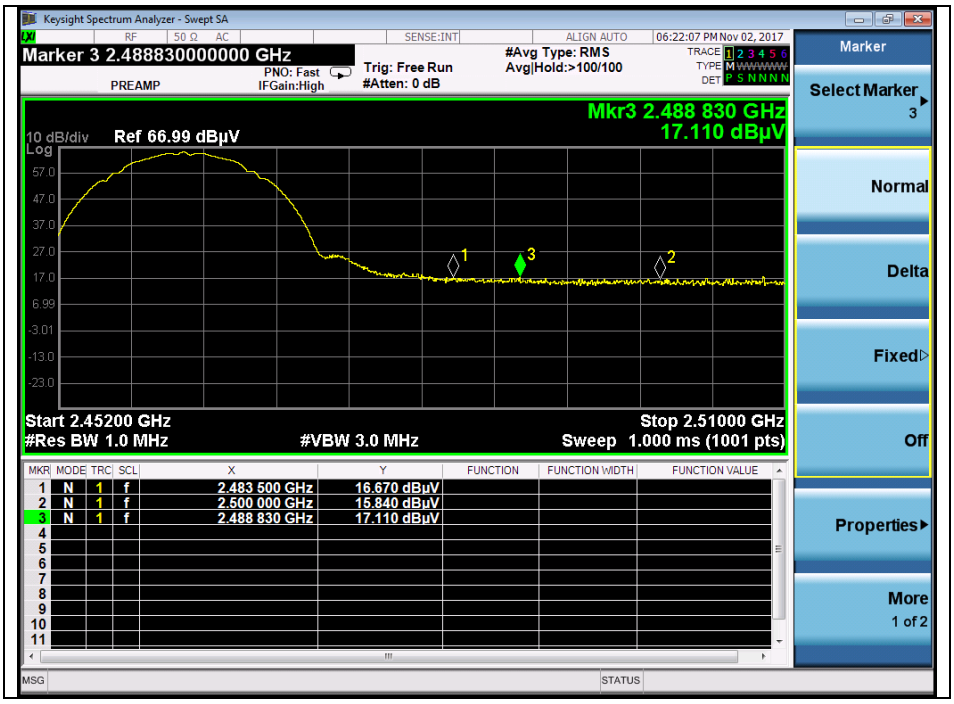
Low channel Band edge (Peak)



Low channel Band edge (Average)



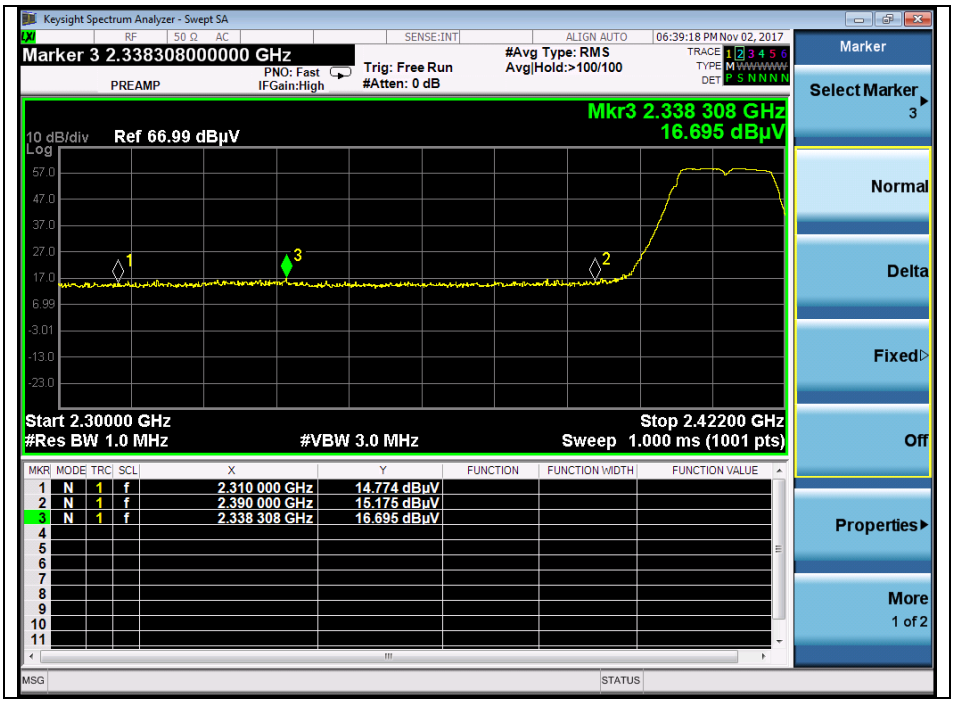
High channel Band edge (Peak)



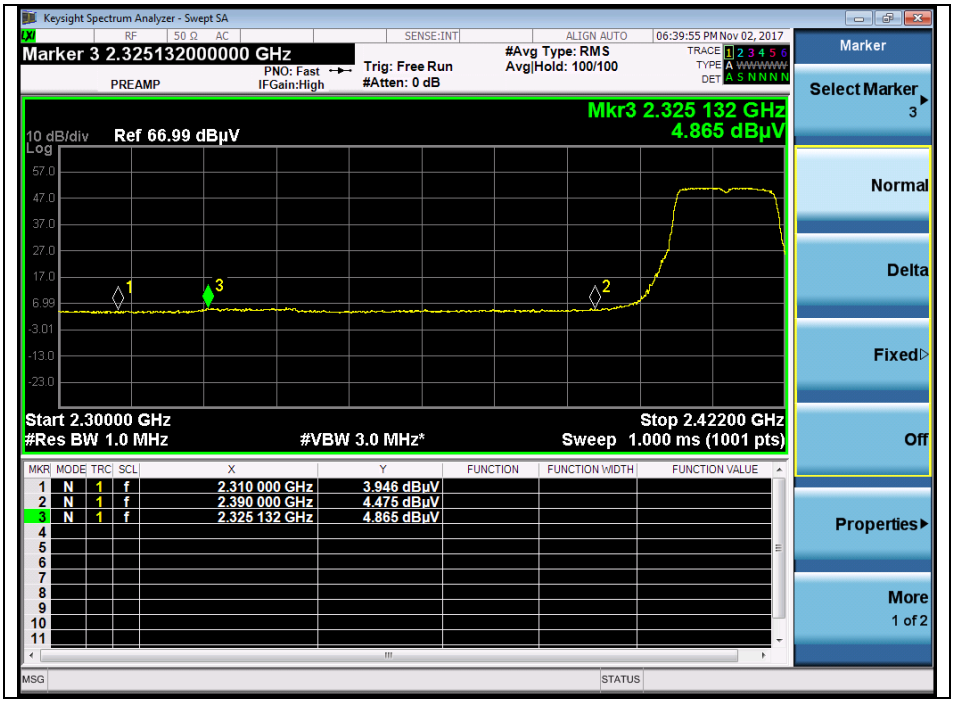
High channel Band edge (Average)

OFDM: 802.11g (6 Mbps)

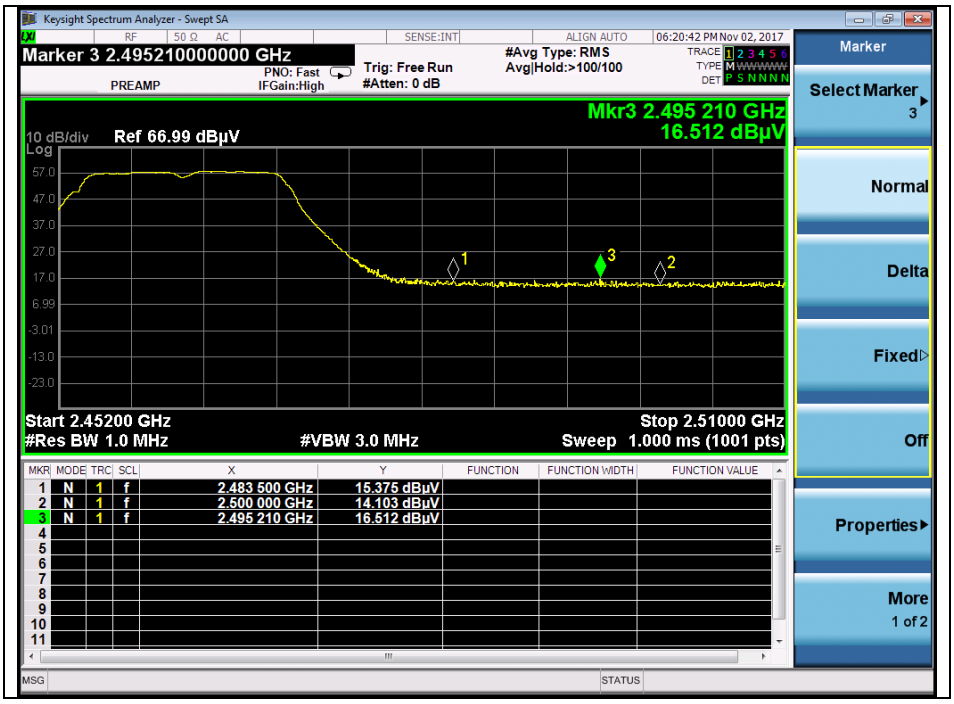
Low channel Band edge (Peak)



Low channel Band edge (Average)



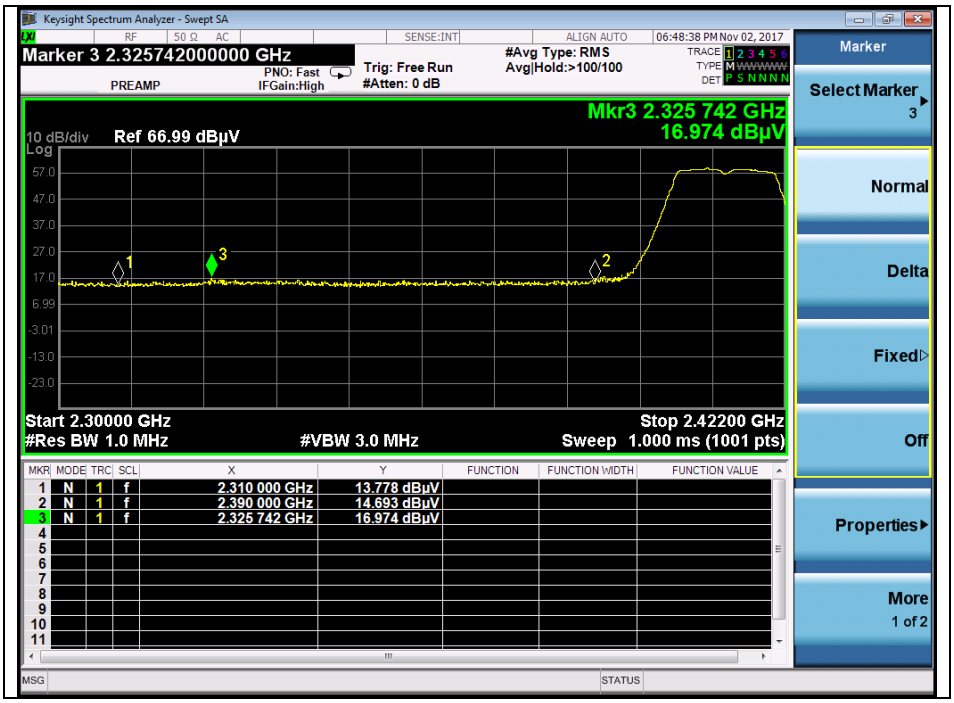
High channel Band edge (Peak)



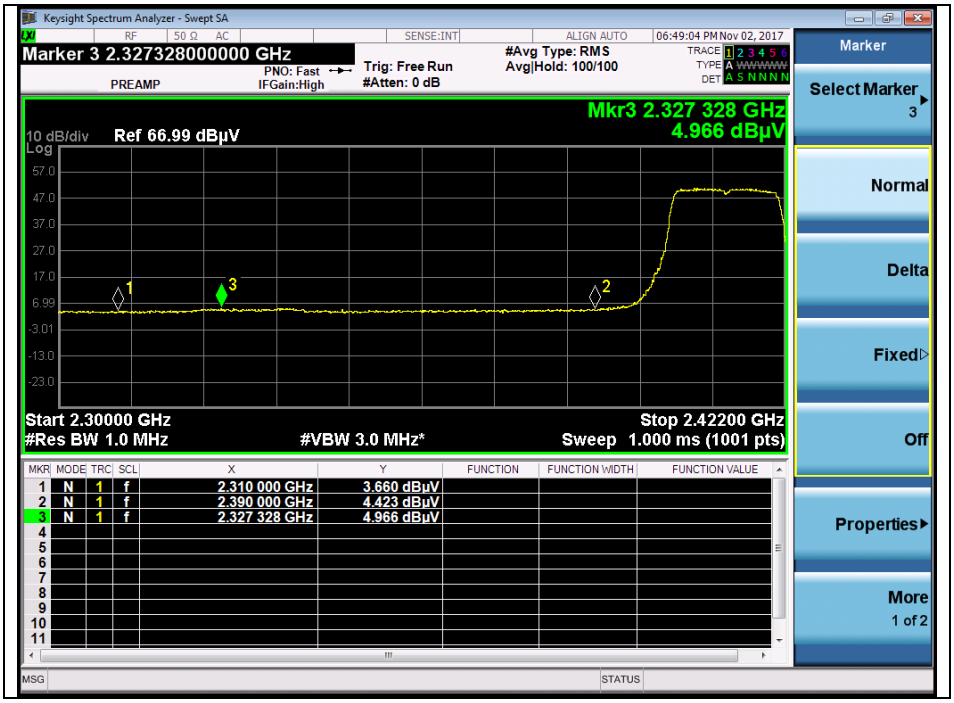
High channel Band edge (Average)

OFDM: 802.11n_HT20 (MCS0)

Low channel Band edge (Peak)

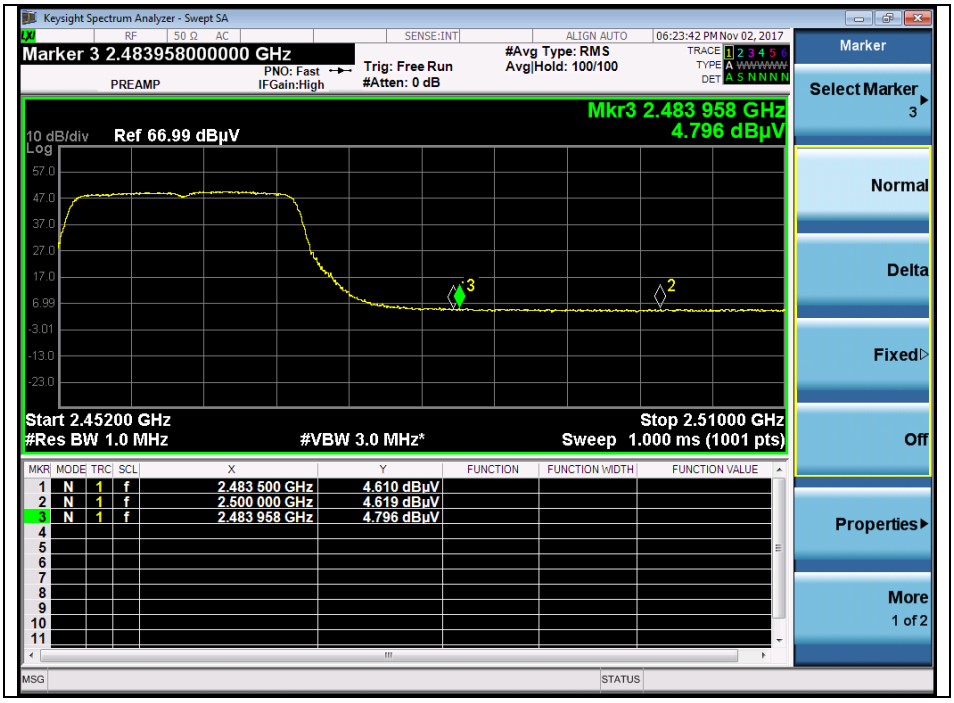


Low channel Band edge (Average)



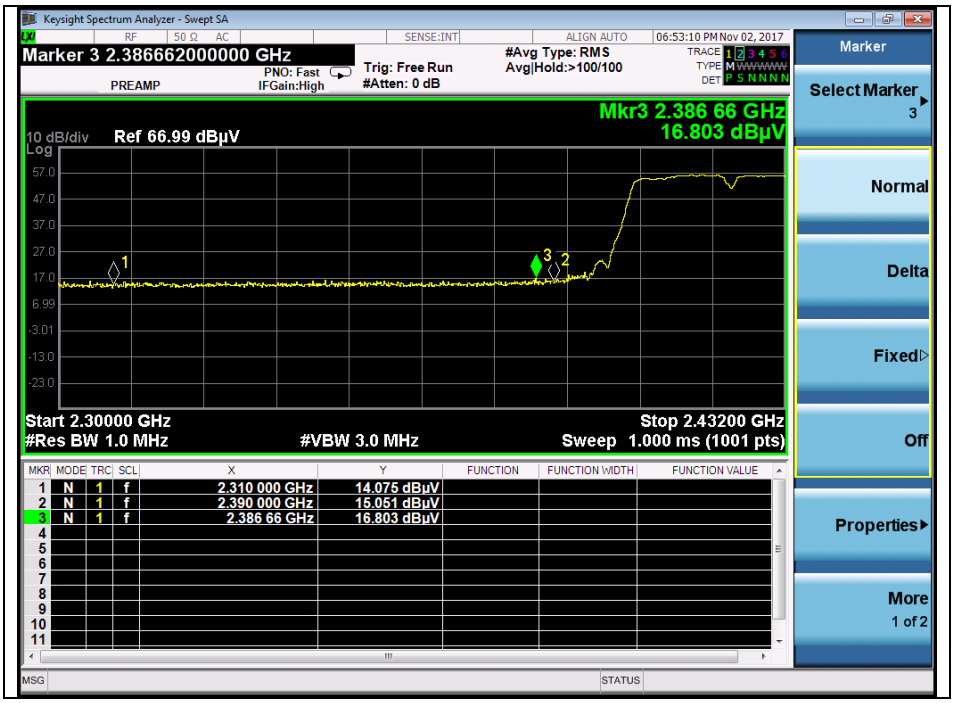
High channel Band edge (Peak)

High channel Band edge (Average)



OFDM: 802.11n_HT40 (MCS0)

Low channel Band edge (Peak)



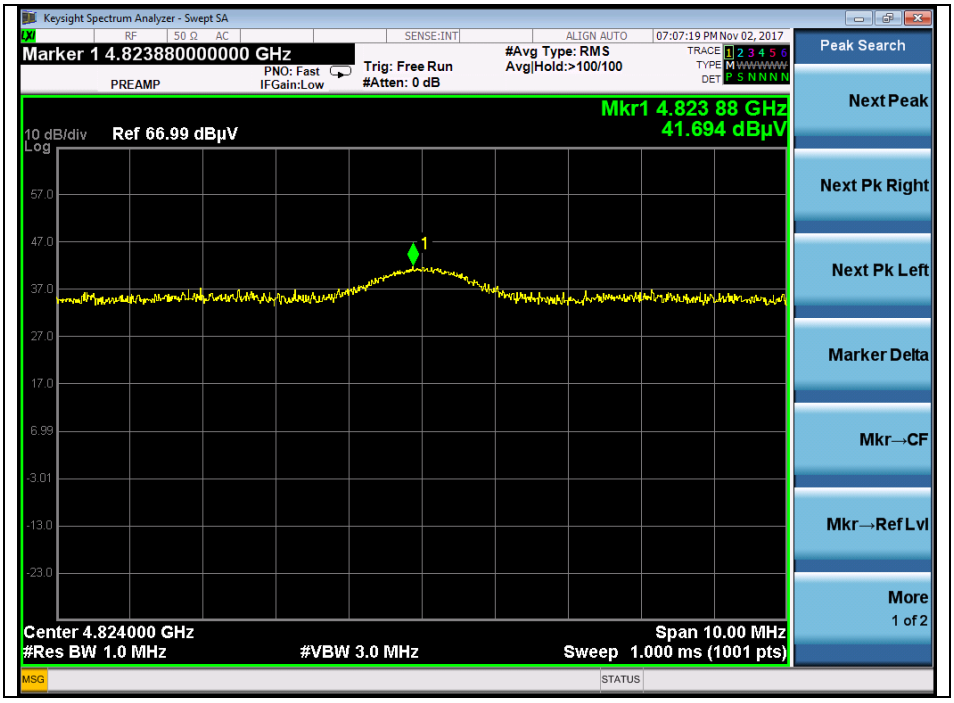
Low channel Band edge (Average)

High channel Band edge (Peak)

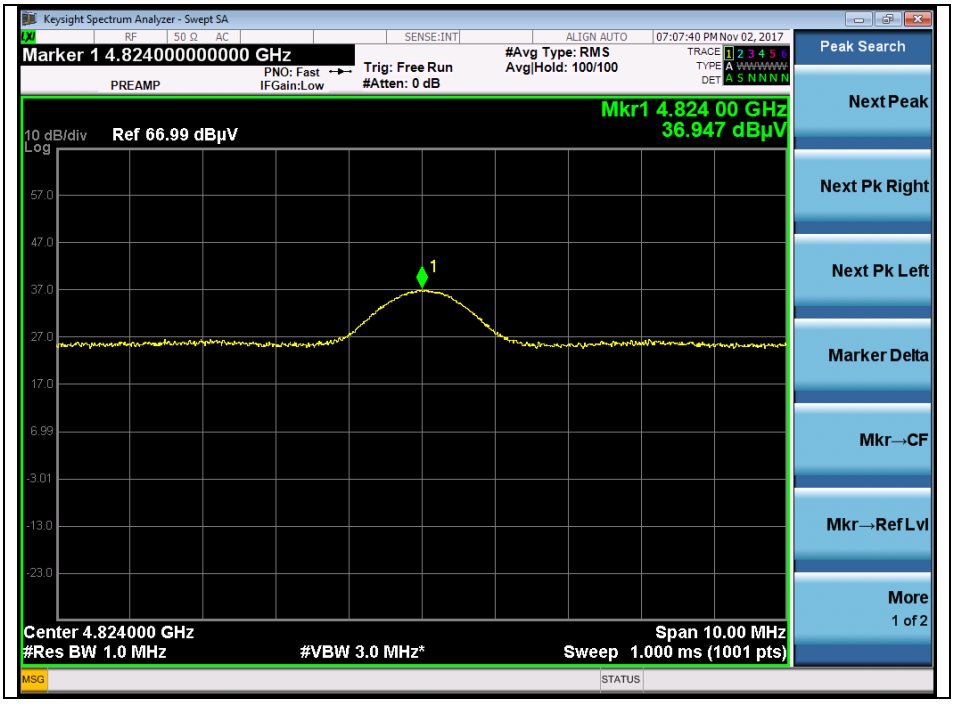
High channel Band edge (Average)

DSSS: 802.11b (1 Mbps)

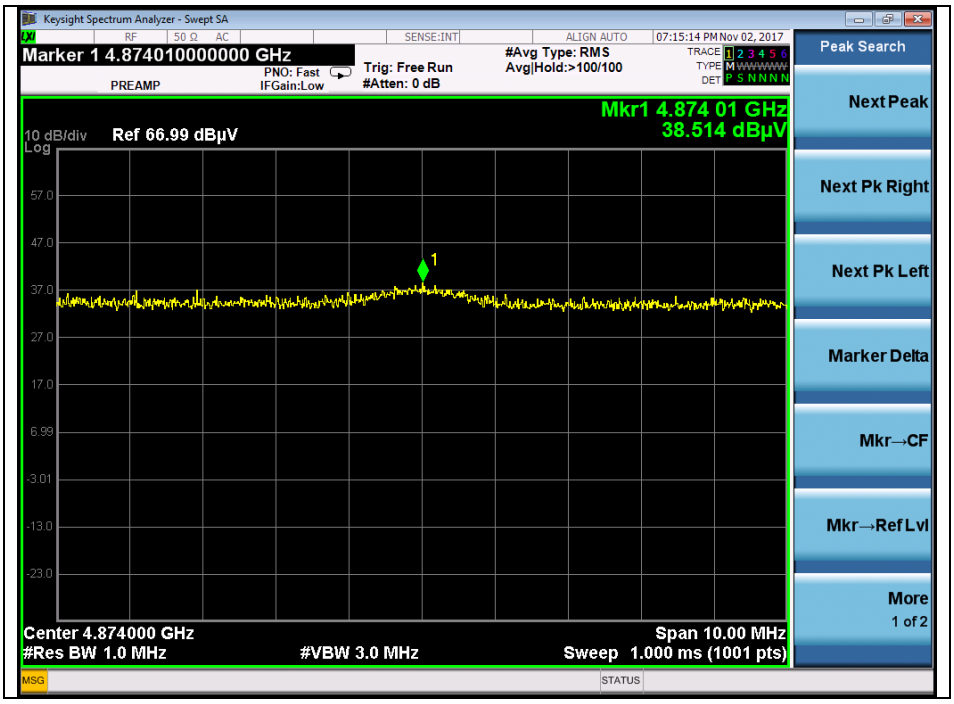
Low channel 2nd harmonic (Peak)



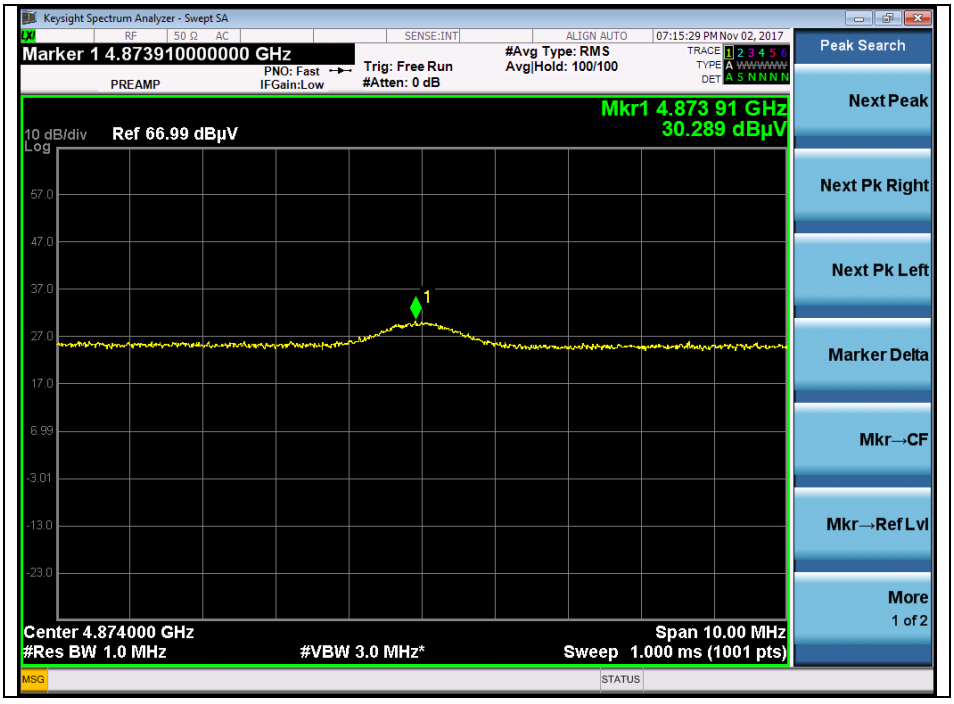
Low channel 2nd harmonic (Average)



Middle channel 2nd harmonic (Peak)



Middle channel 2nd harmonic (Average)

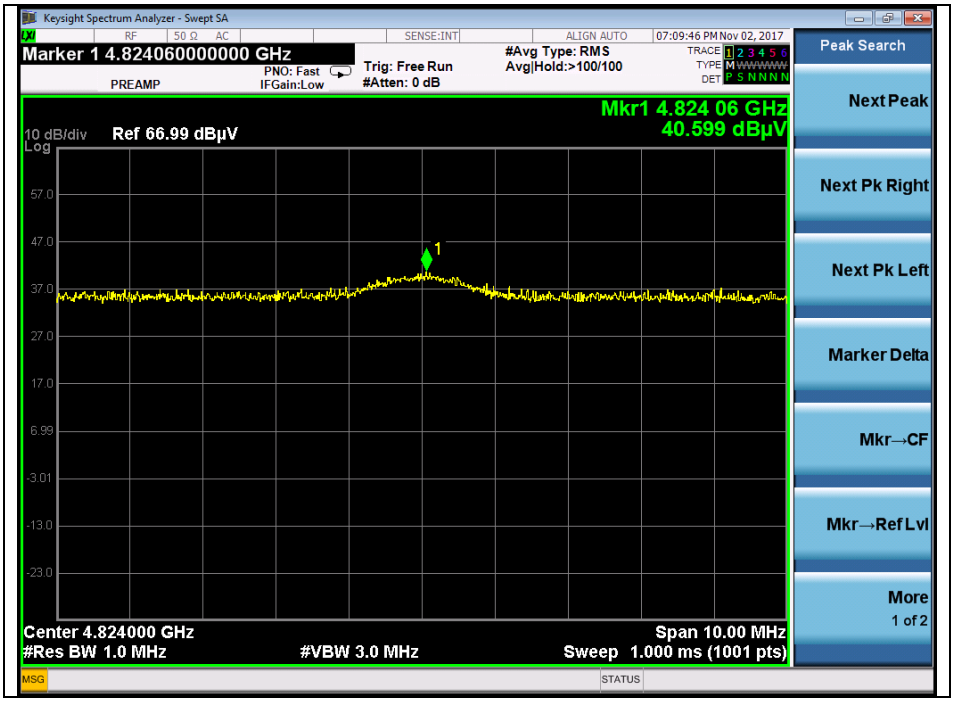


High channel 2nd harmonic (Peak)

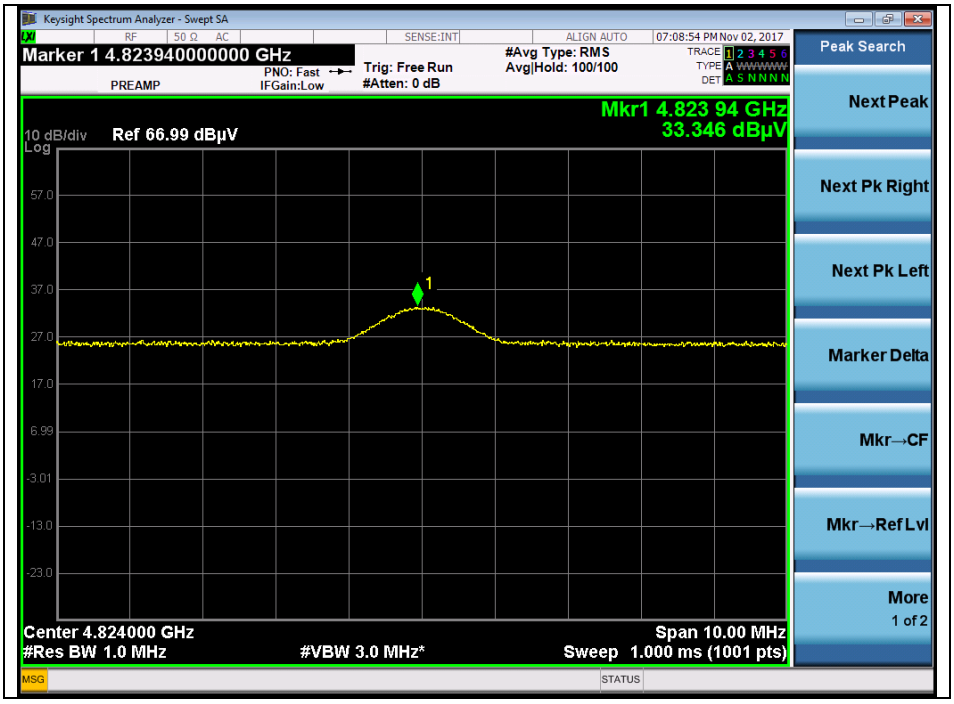
High channel 2nd harmonic (Average)

OFDM: 802.11g (6 Mbps)

Low channel 2nd harmonic (Peak)

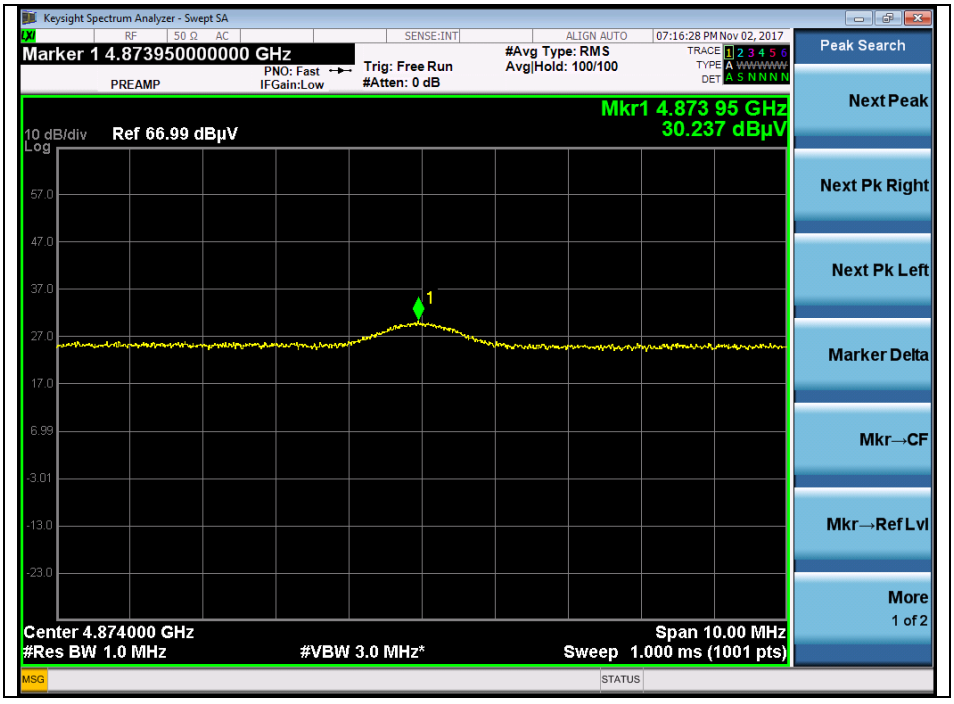


Low channel 2nd harmonic (Average)



Middle channel 2nd harmonic (Peak)

Middle channel 2nd harmonic (Average)

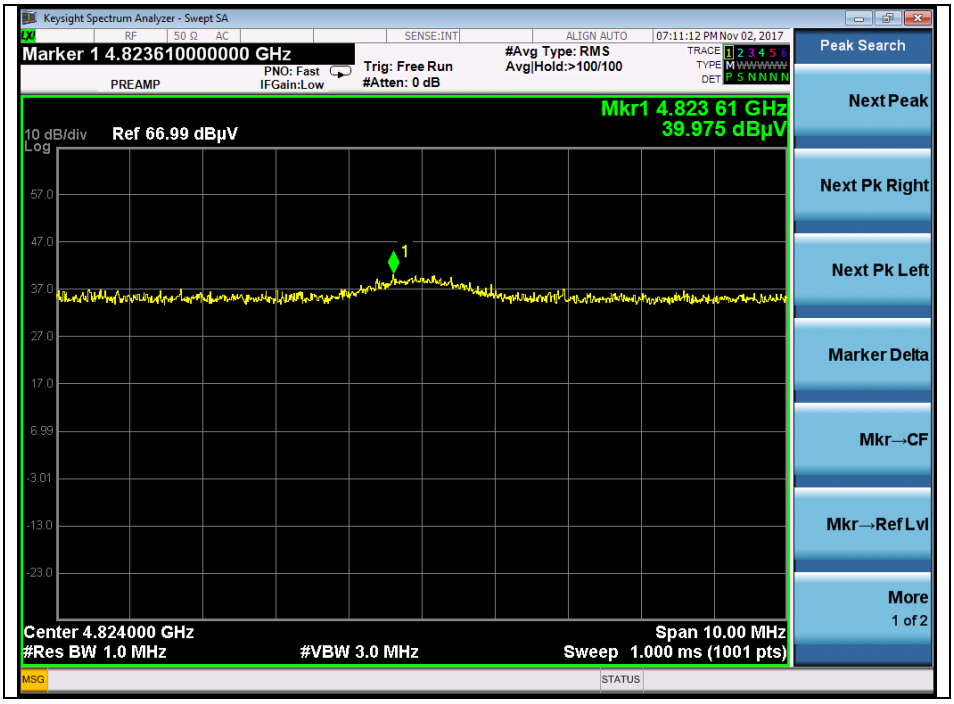


High channel 2nd harmonic (Peak)

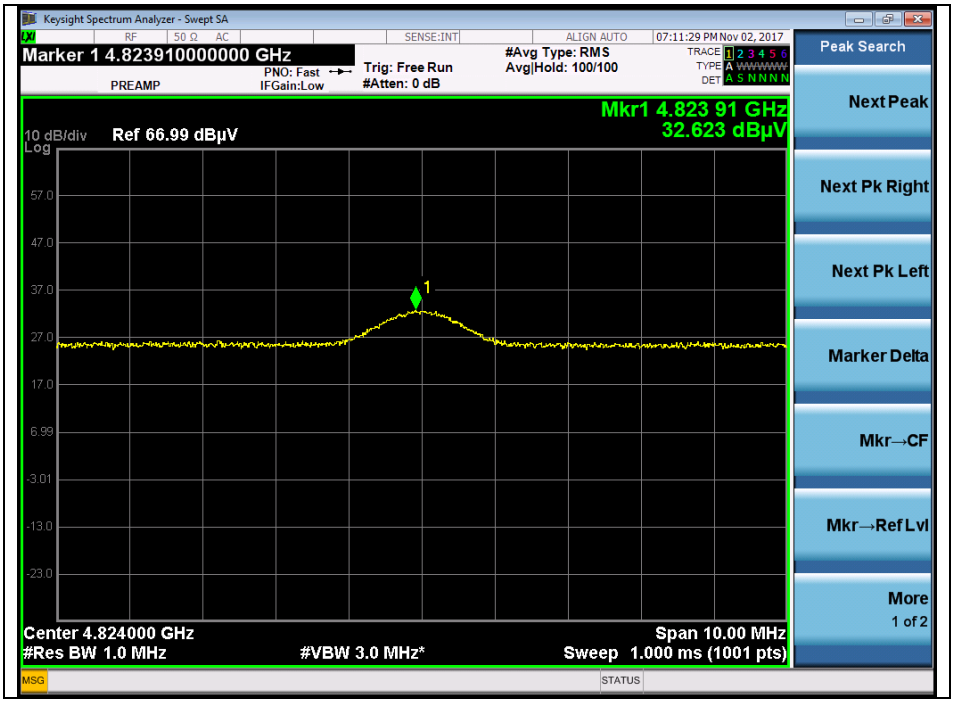
High channel 2nd harmonic (Average)

OFDM: 802.11n_HT20 (MCS0)

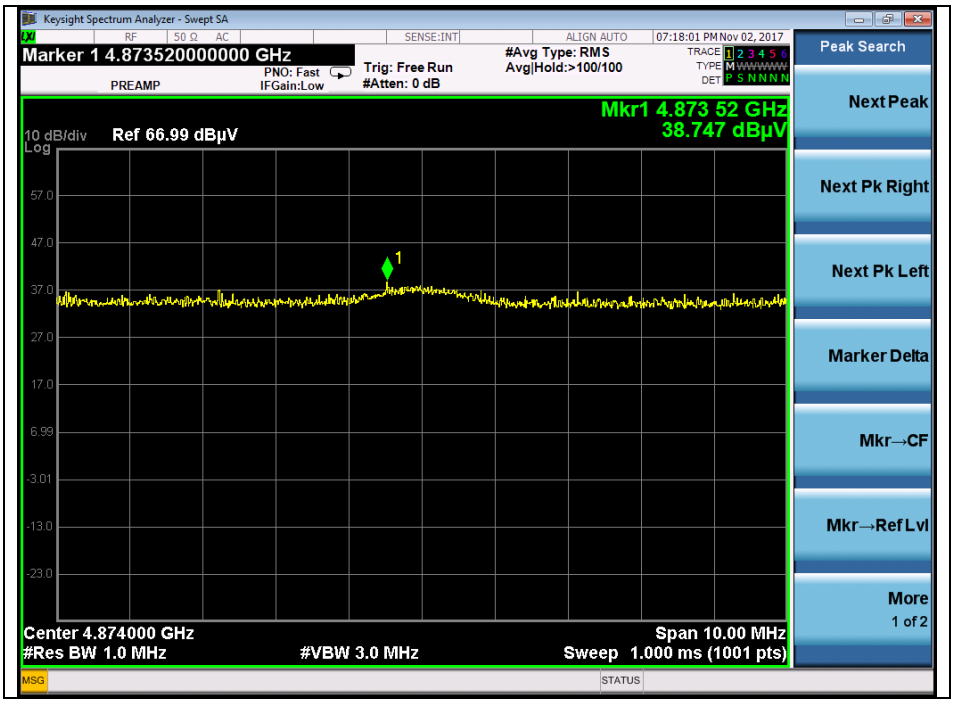
Low channel 2nd harmonic (Peak)



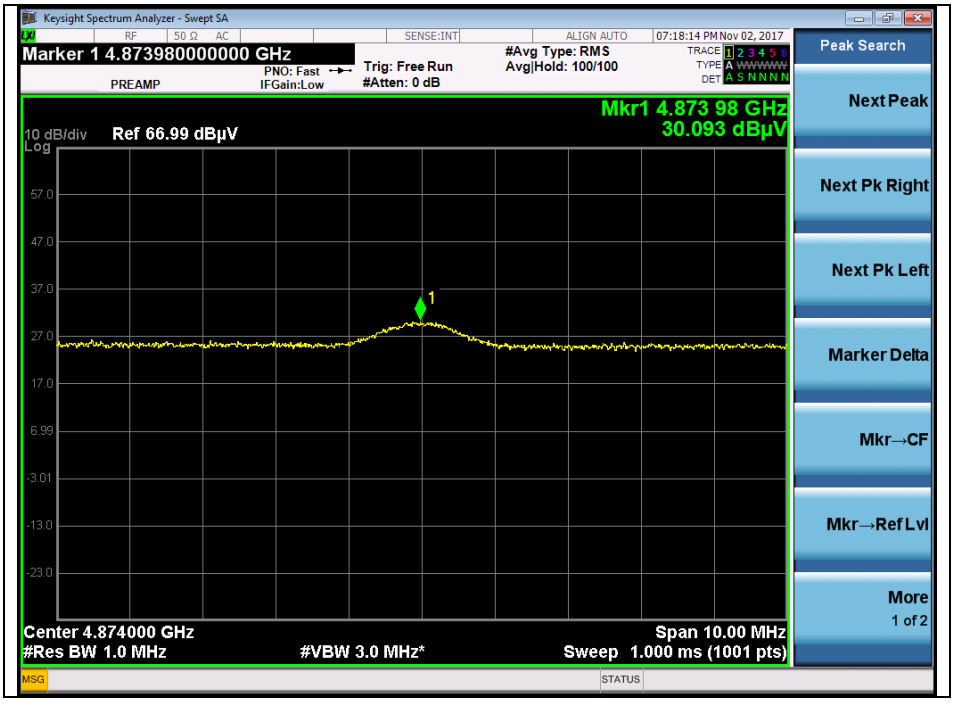
Low channel 2nd harmonic (Average)



Middle channel 2nd harmonic (Peak)

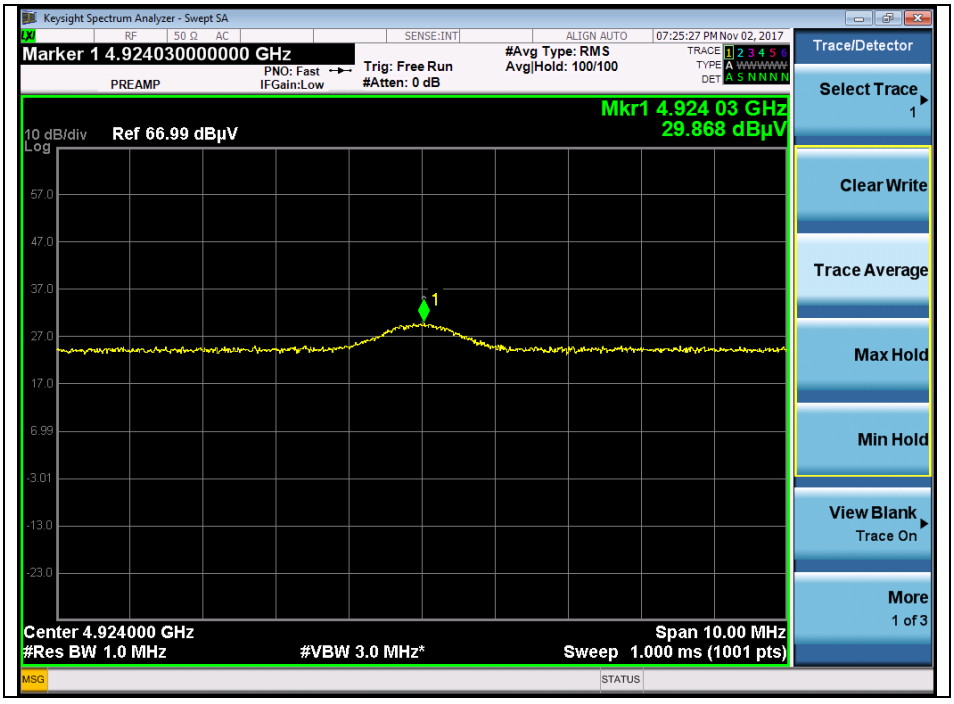


Middle channel 2nd harmonic (Average)



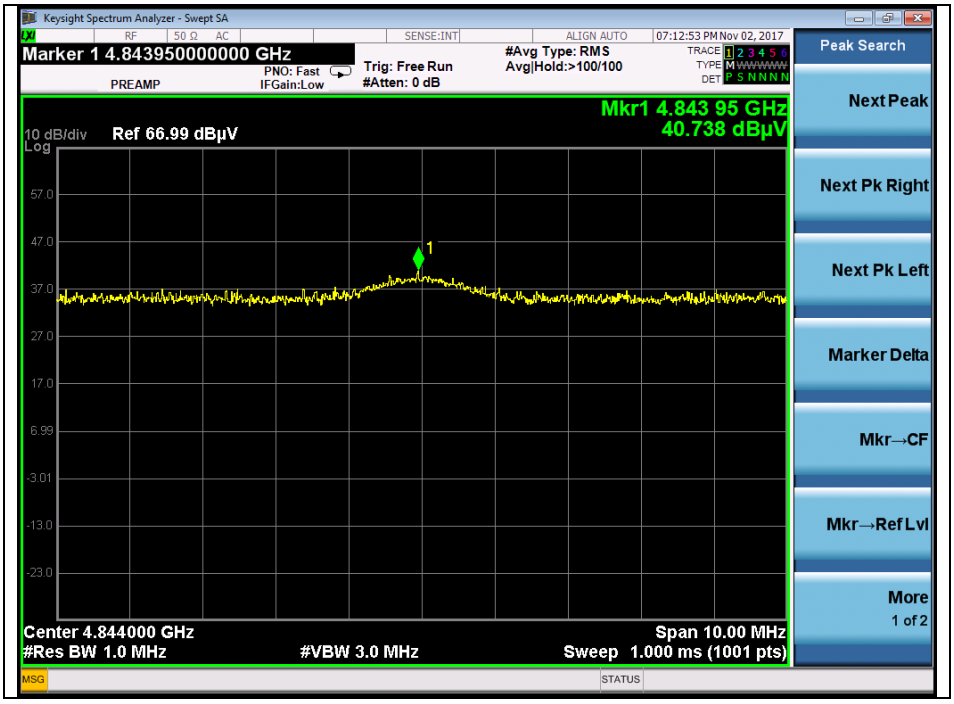
High channel 2nd harmonic (Peak)

High channel 2nd harmonic (Average)

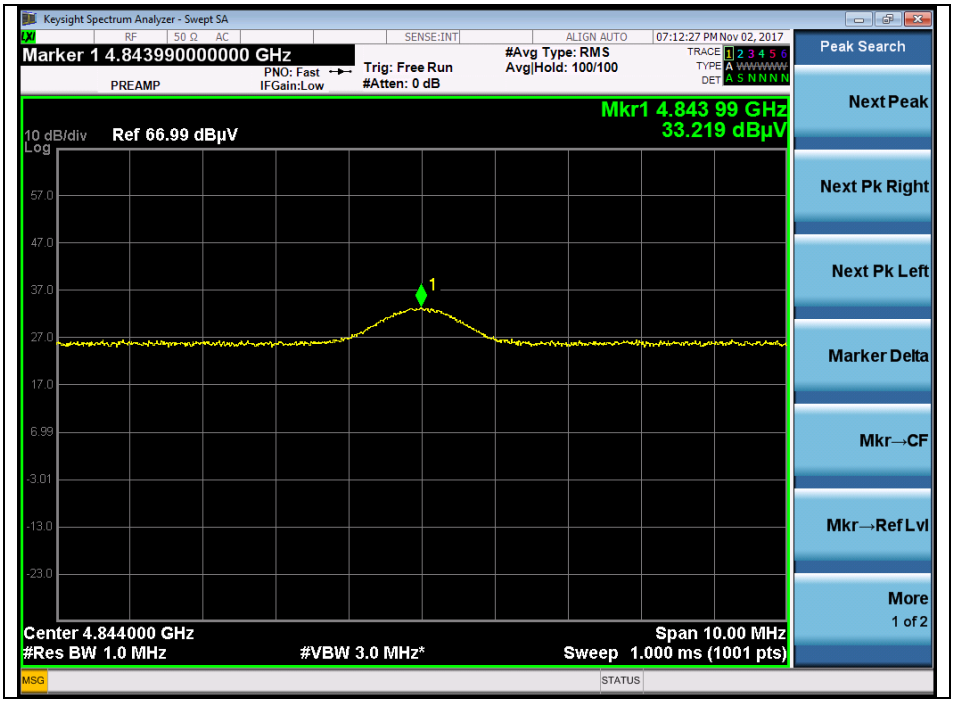


OFDM: 802.11n_HT40 (MCS0)

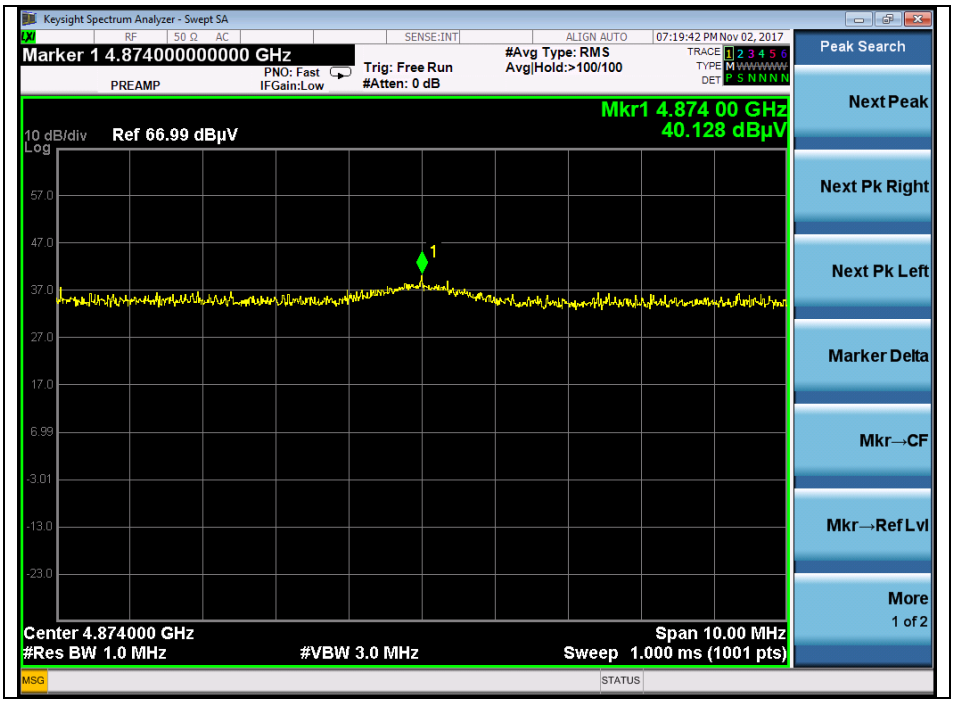
Low channel 2nd harmonic (Peak)



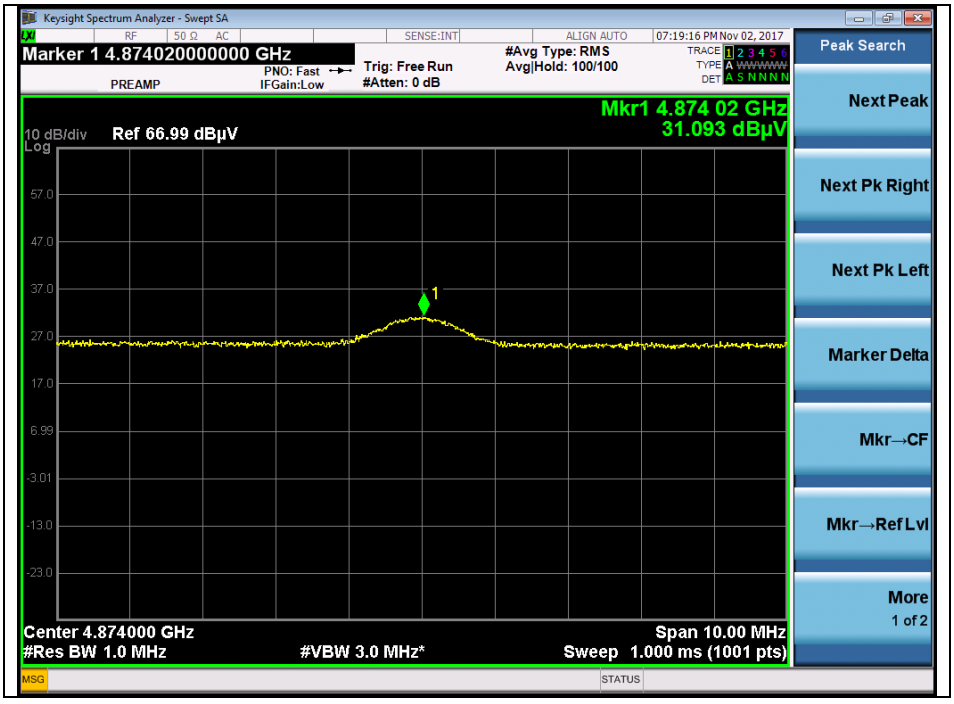
Low channel 2nd harmonic (Average)



Middle channel 2nd harmonic (Peak)

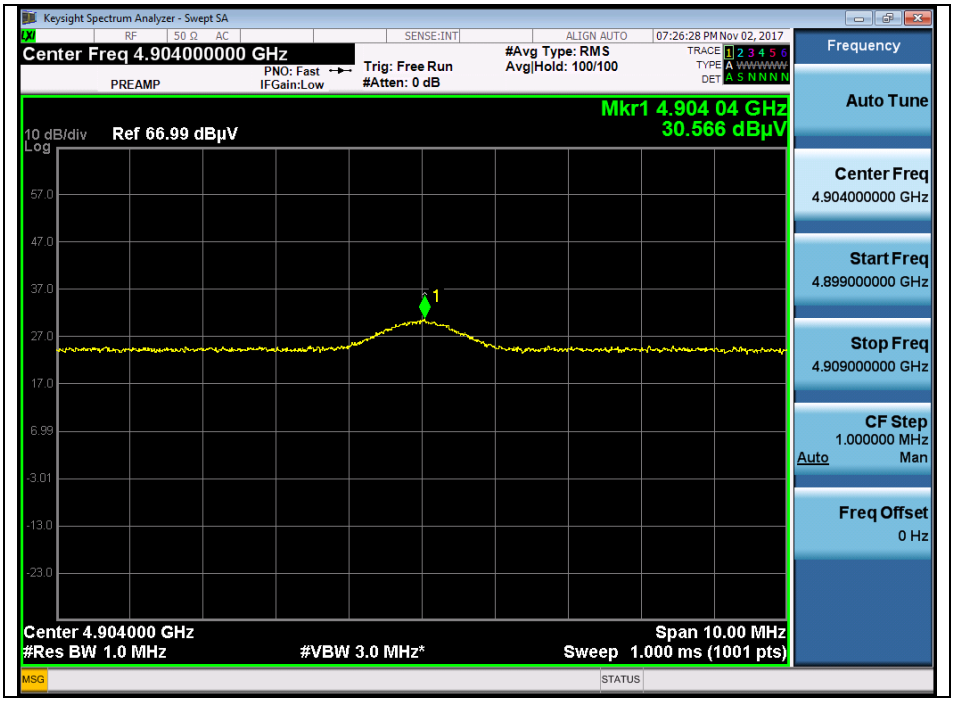


Middle channel 2nd harmonic (Average)



High channel 2nd harmonic (Peak)

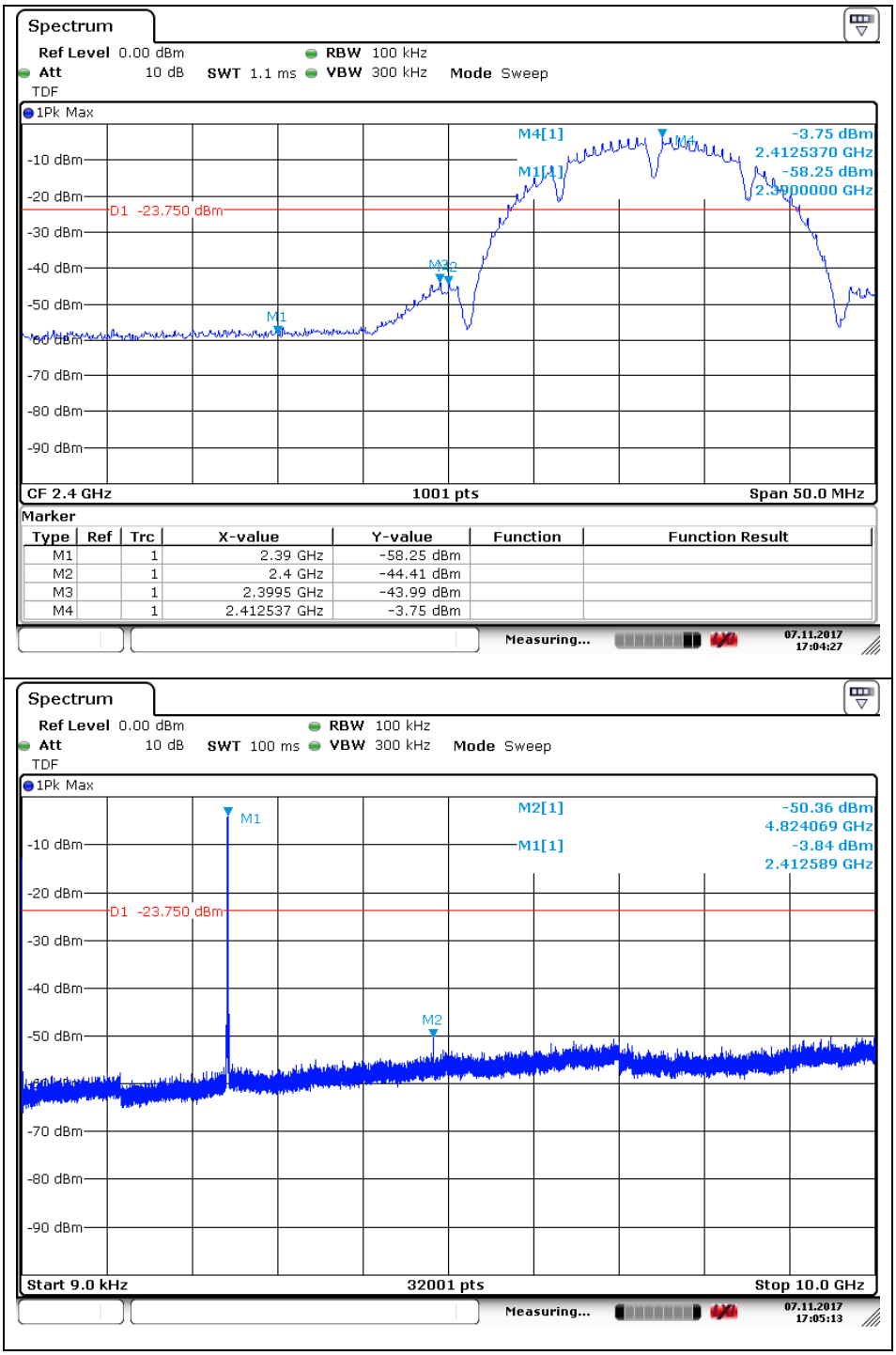
High channel 2nd harmonic (Average)

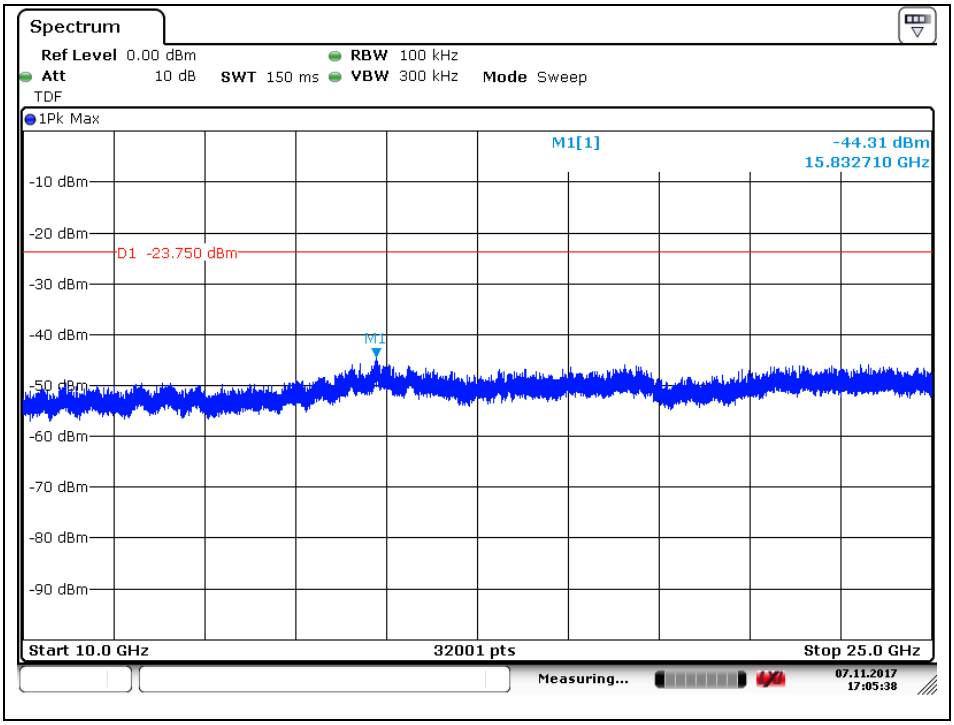


2.4.4. Plot of Conducted Spurious Emissions

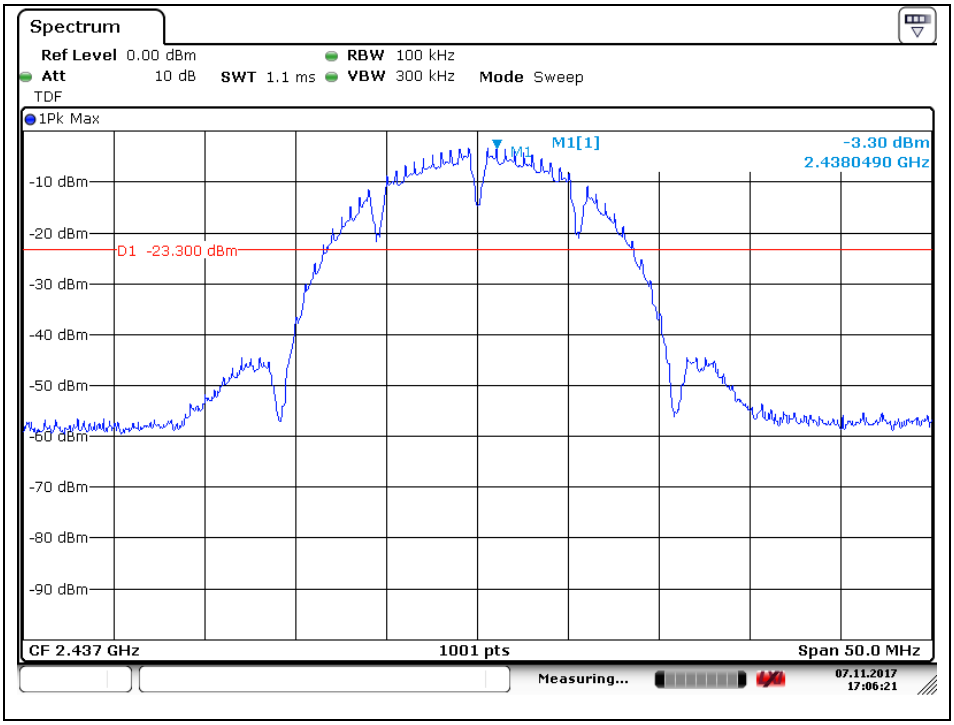
DSSS: 802.11b (1 Mbps)

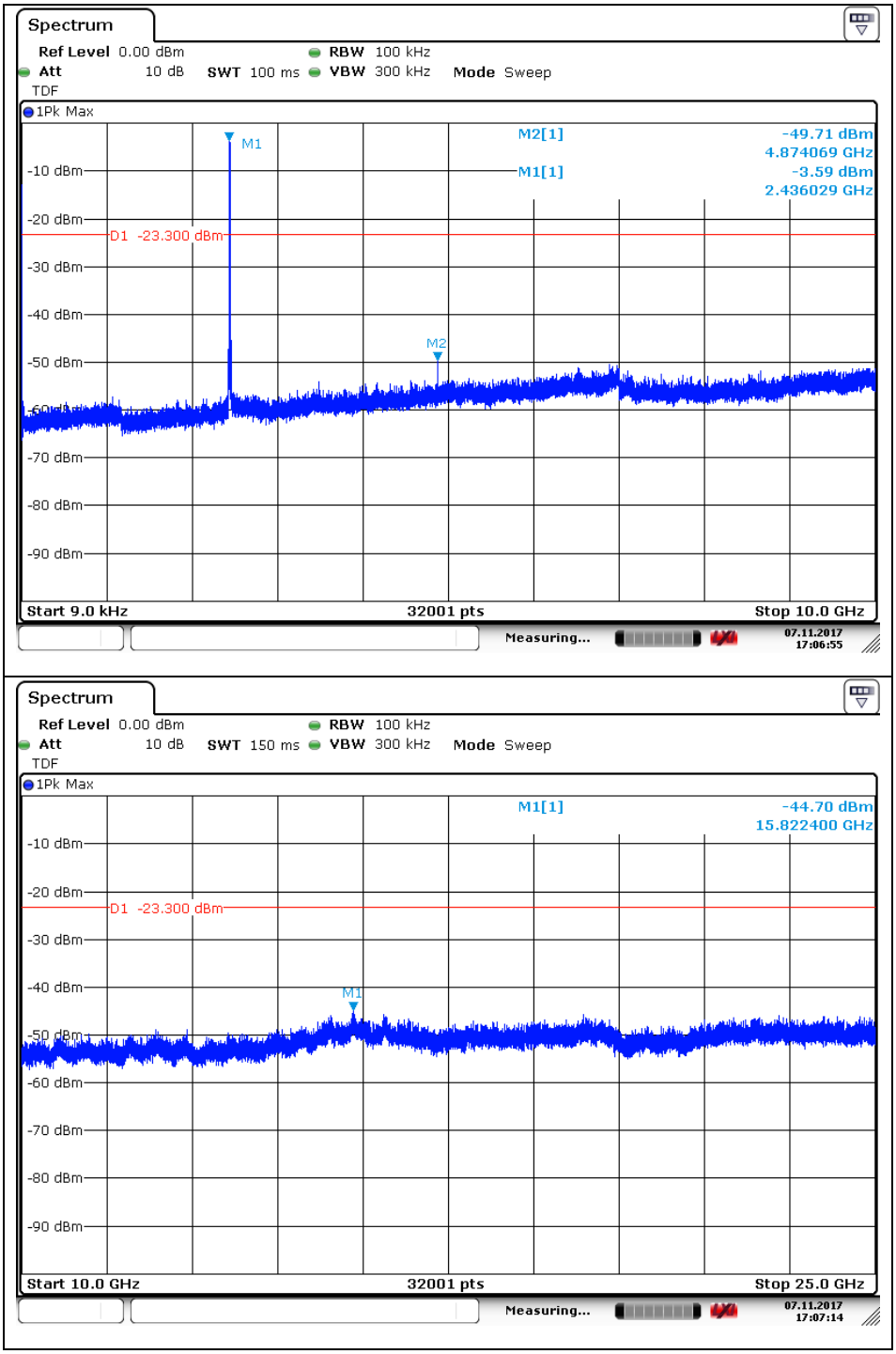
Low Channel



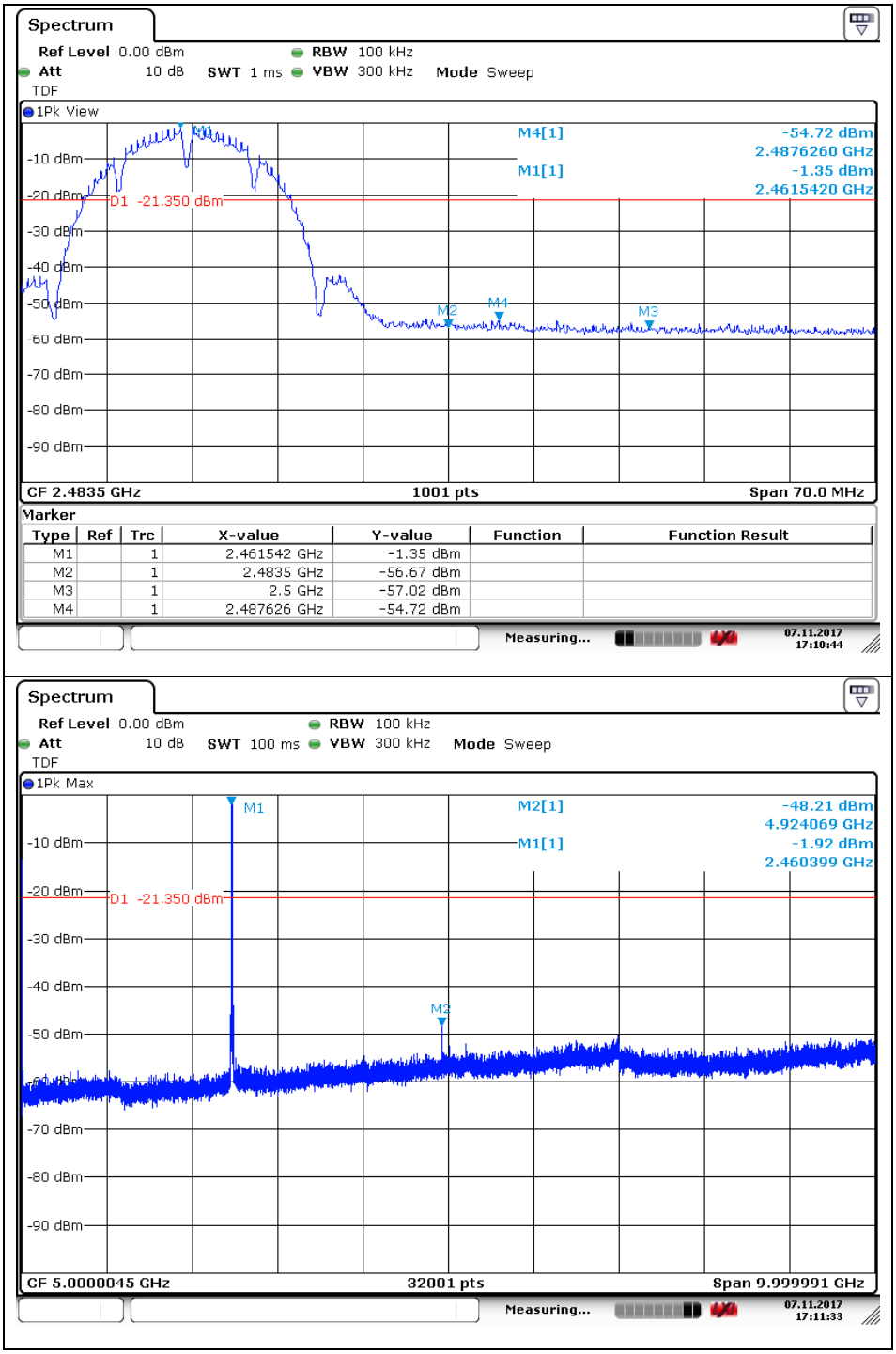


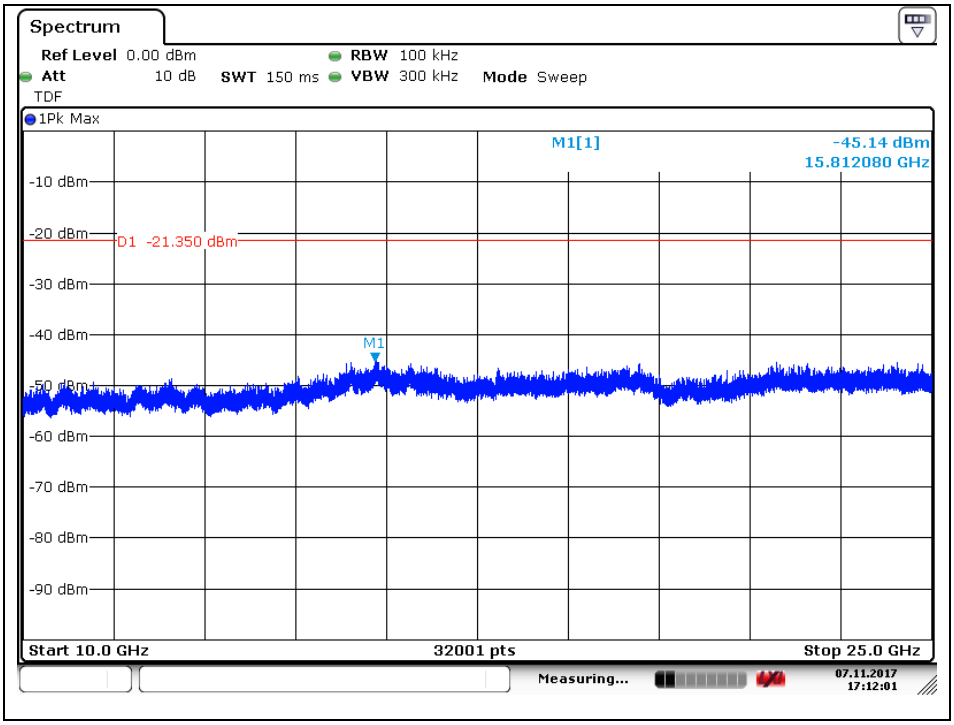
Middle Channel





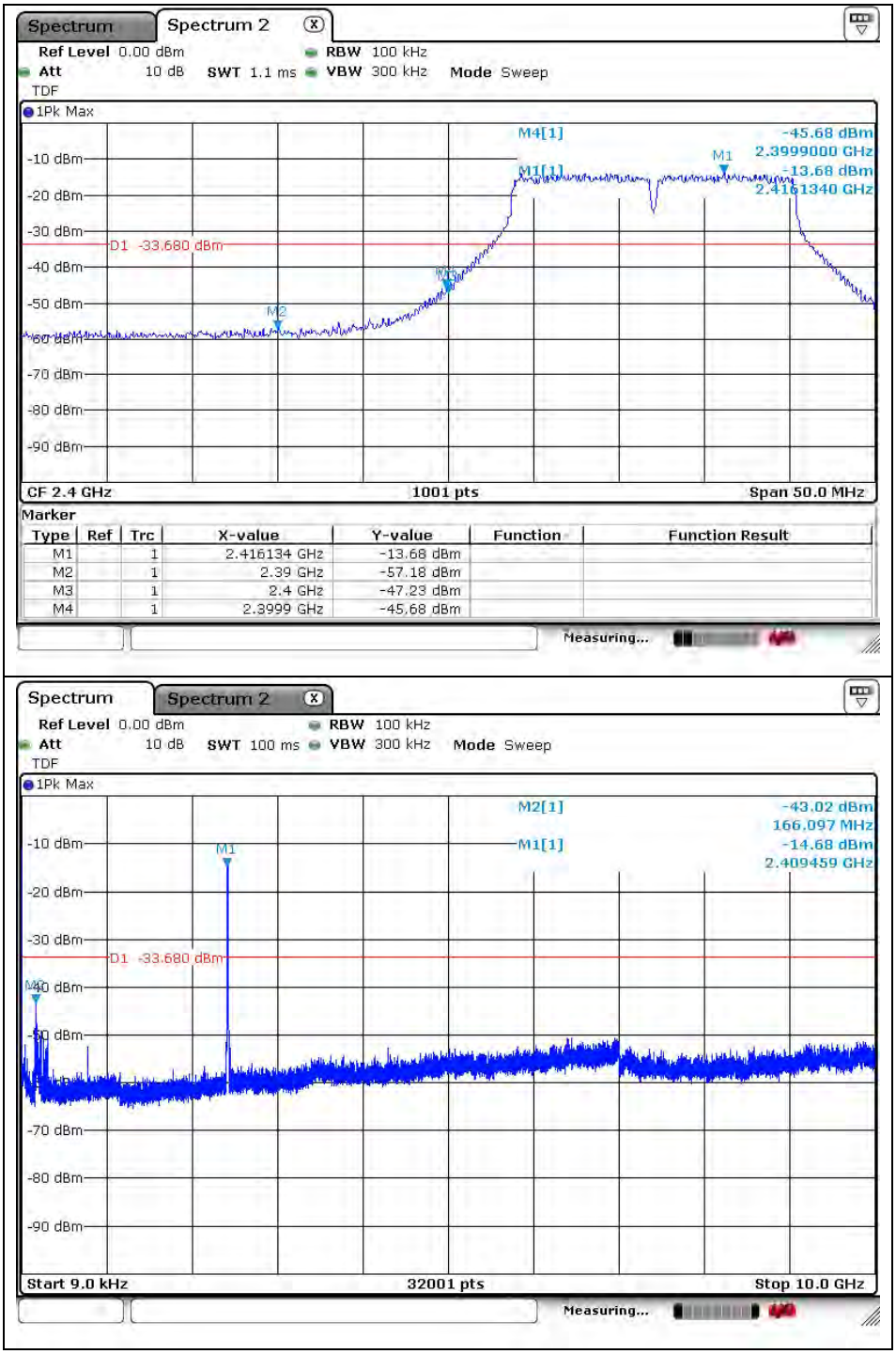
High Channel

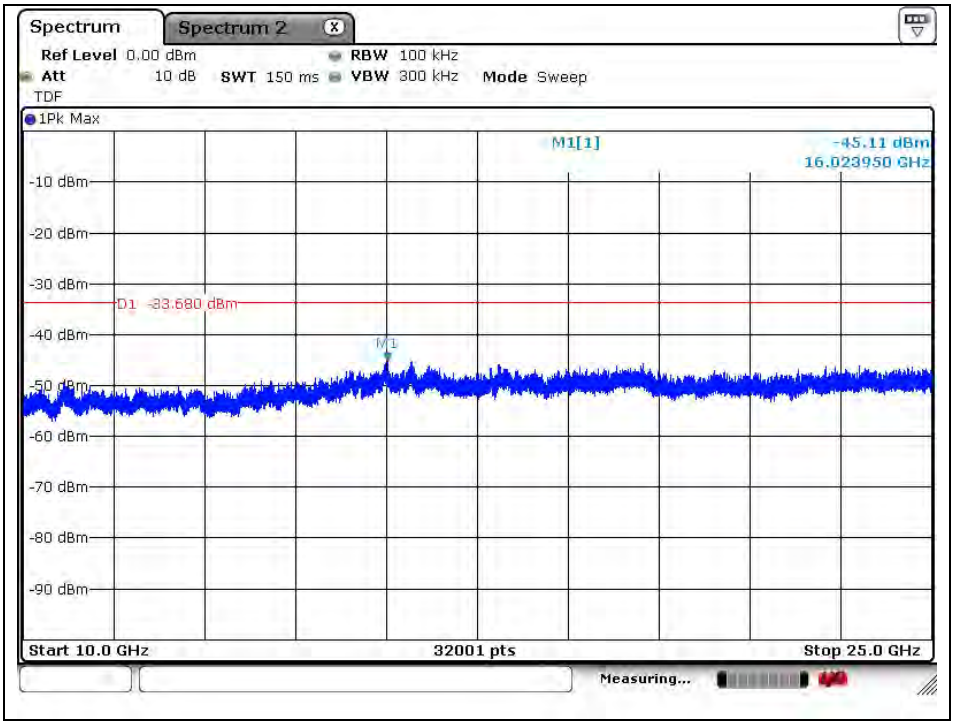




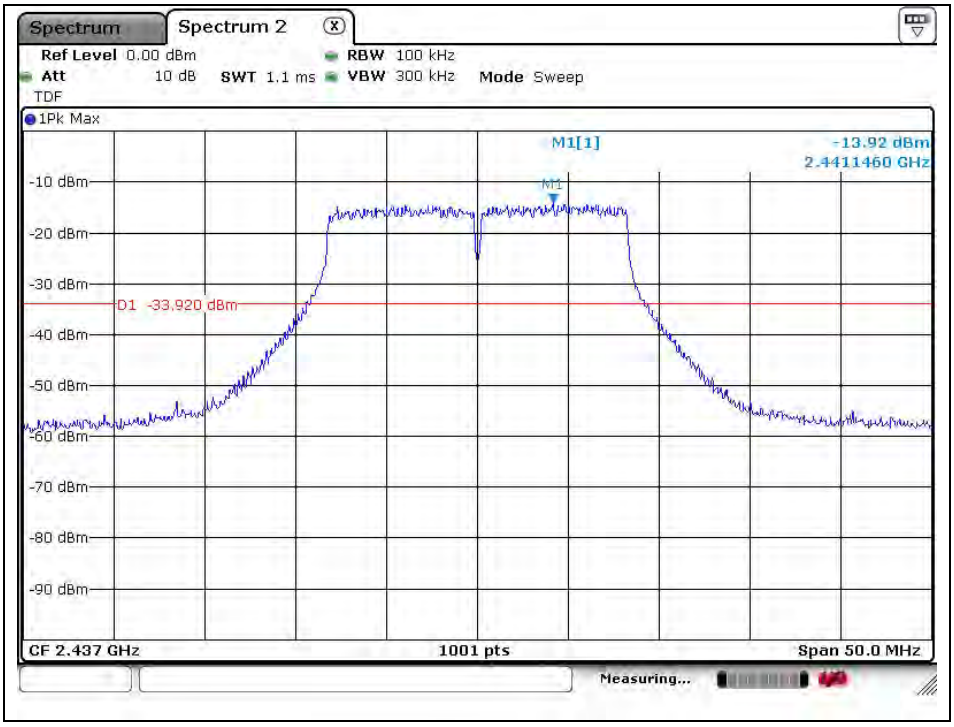
OFDM: 802.11g (6 Mbps)

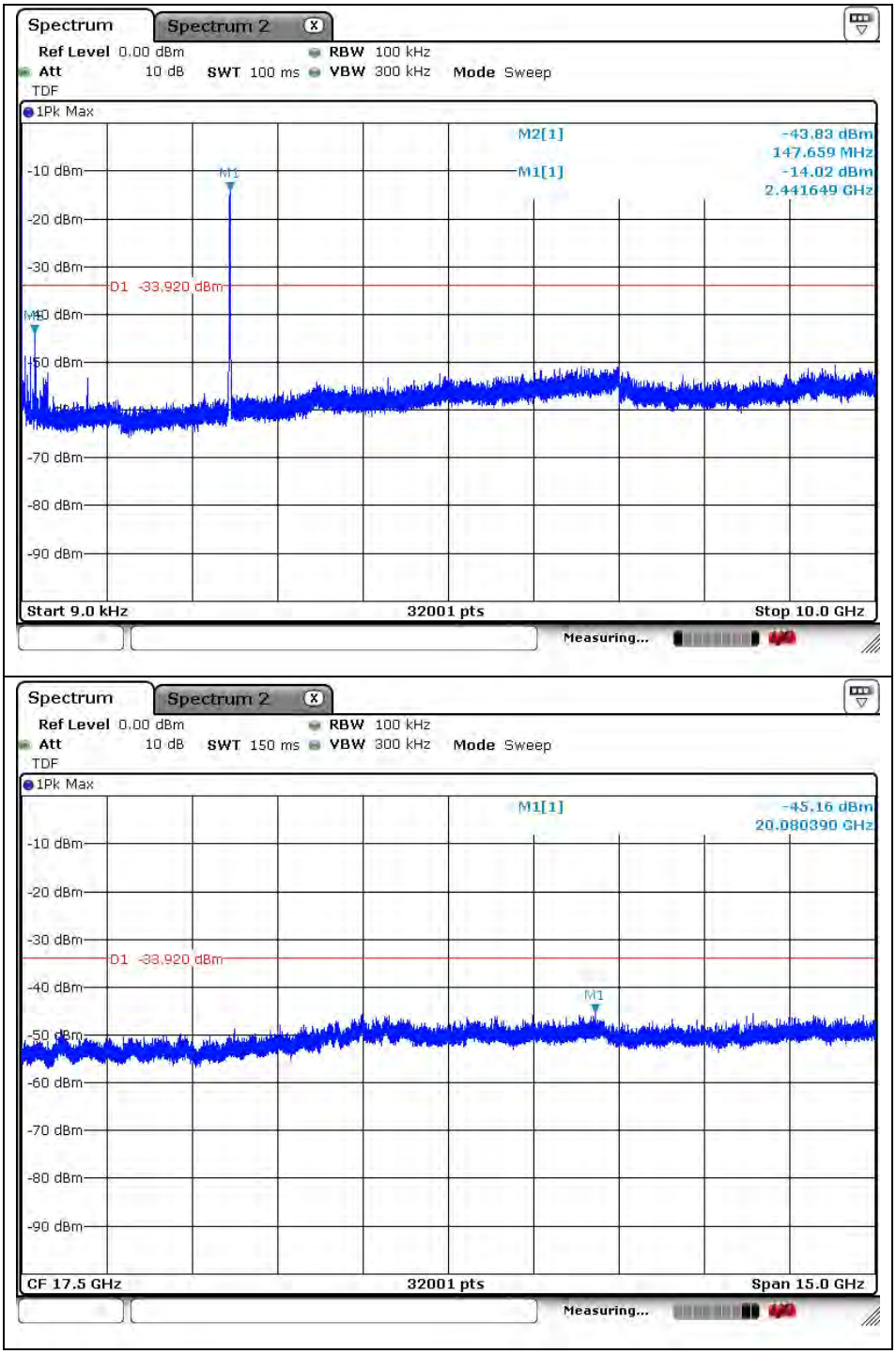
Low Channel



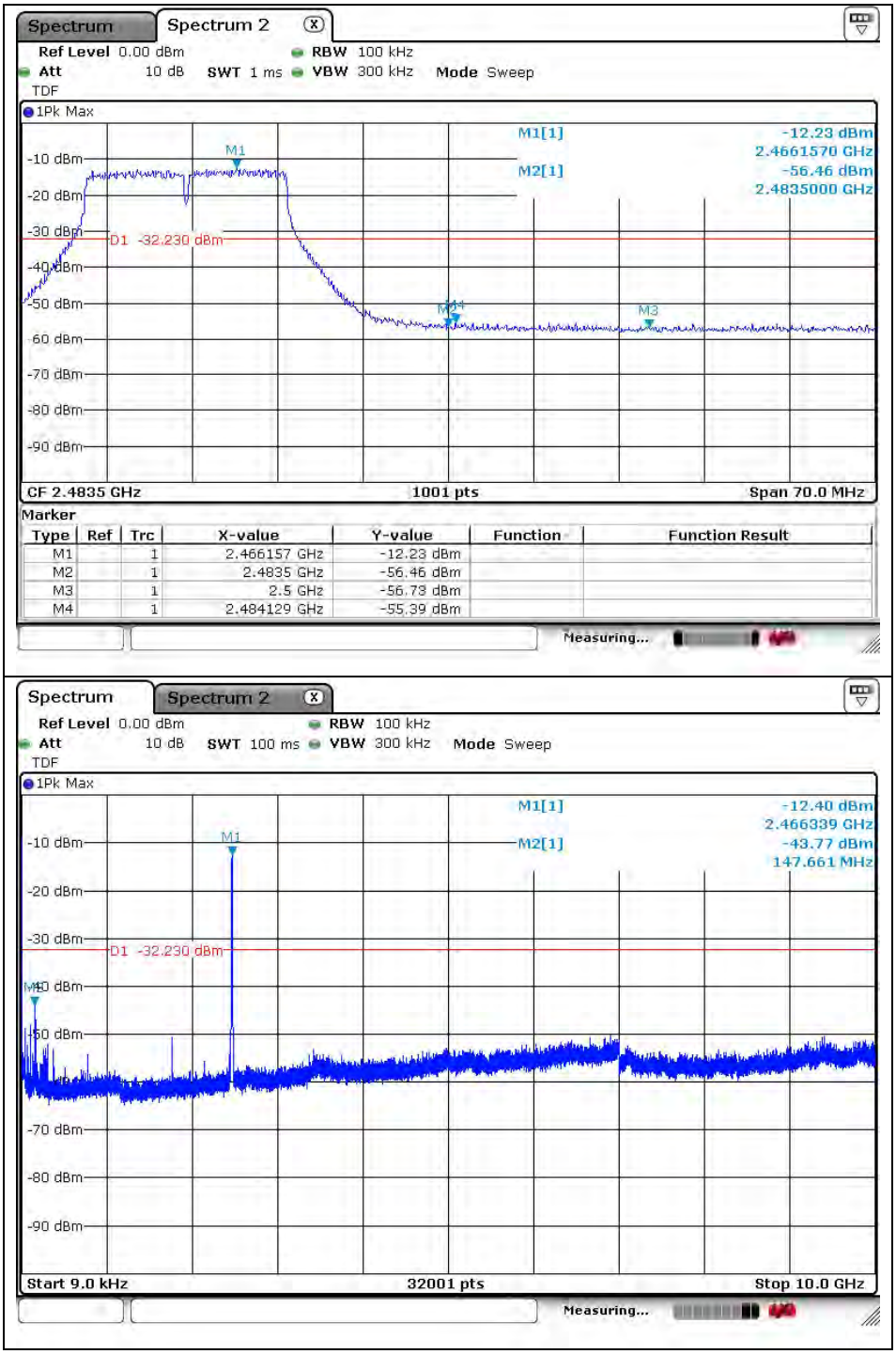


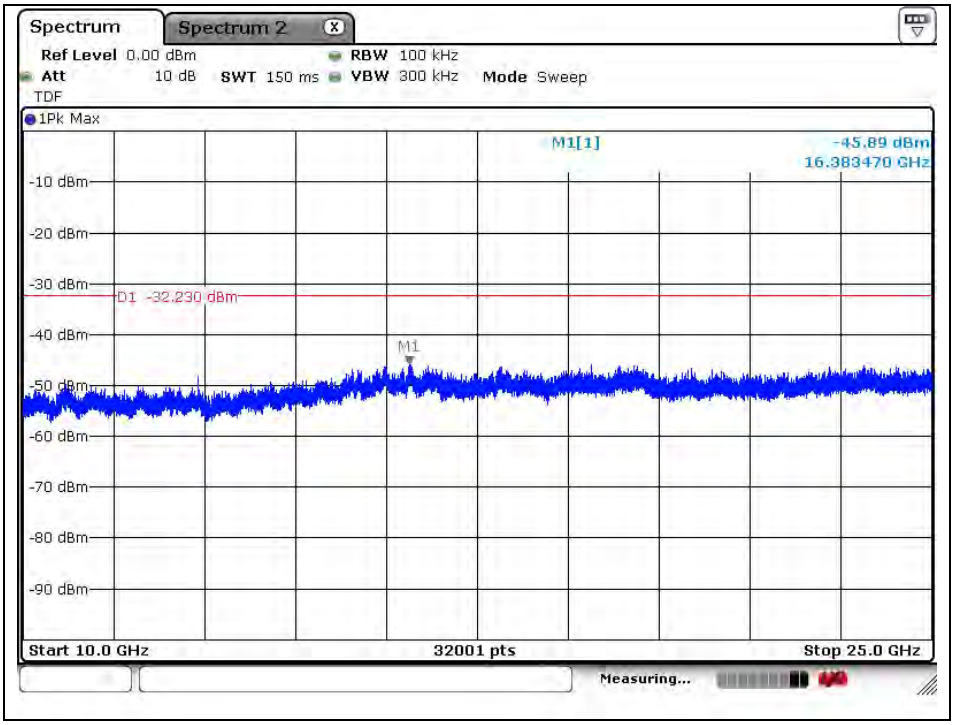
Middle Channel





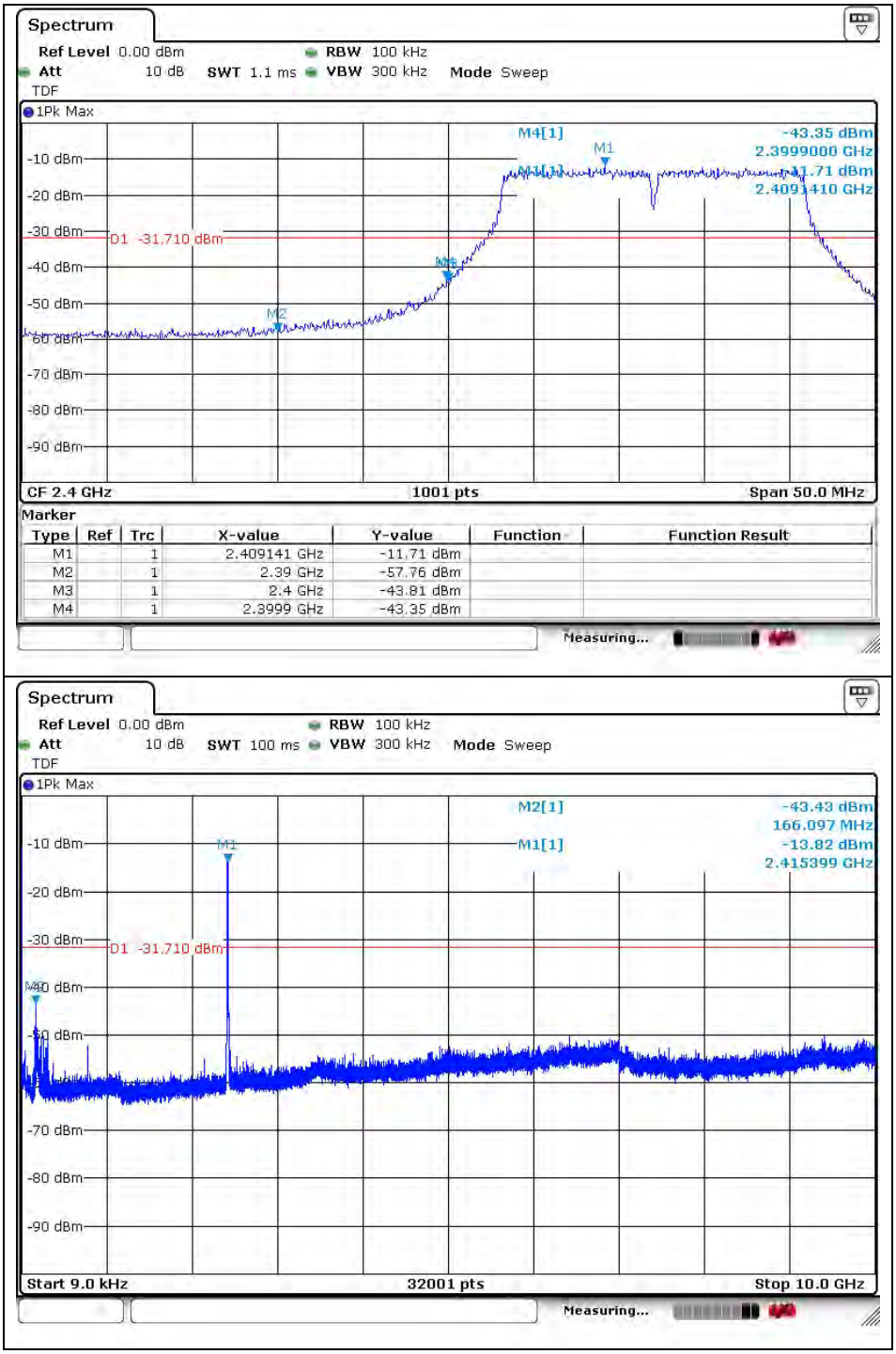
High Channel

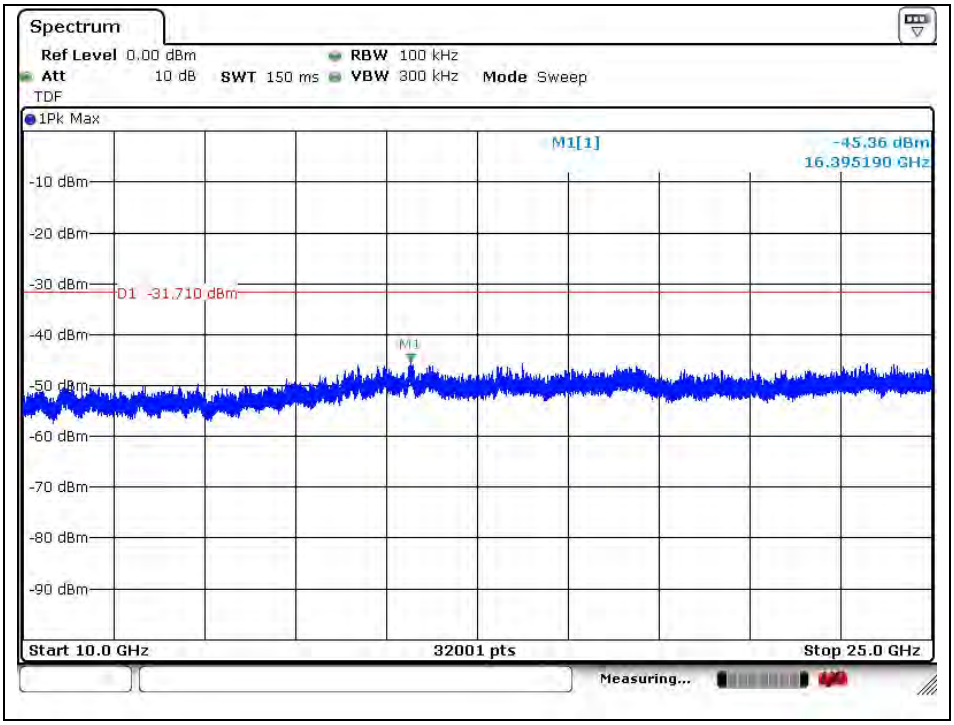




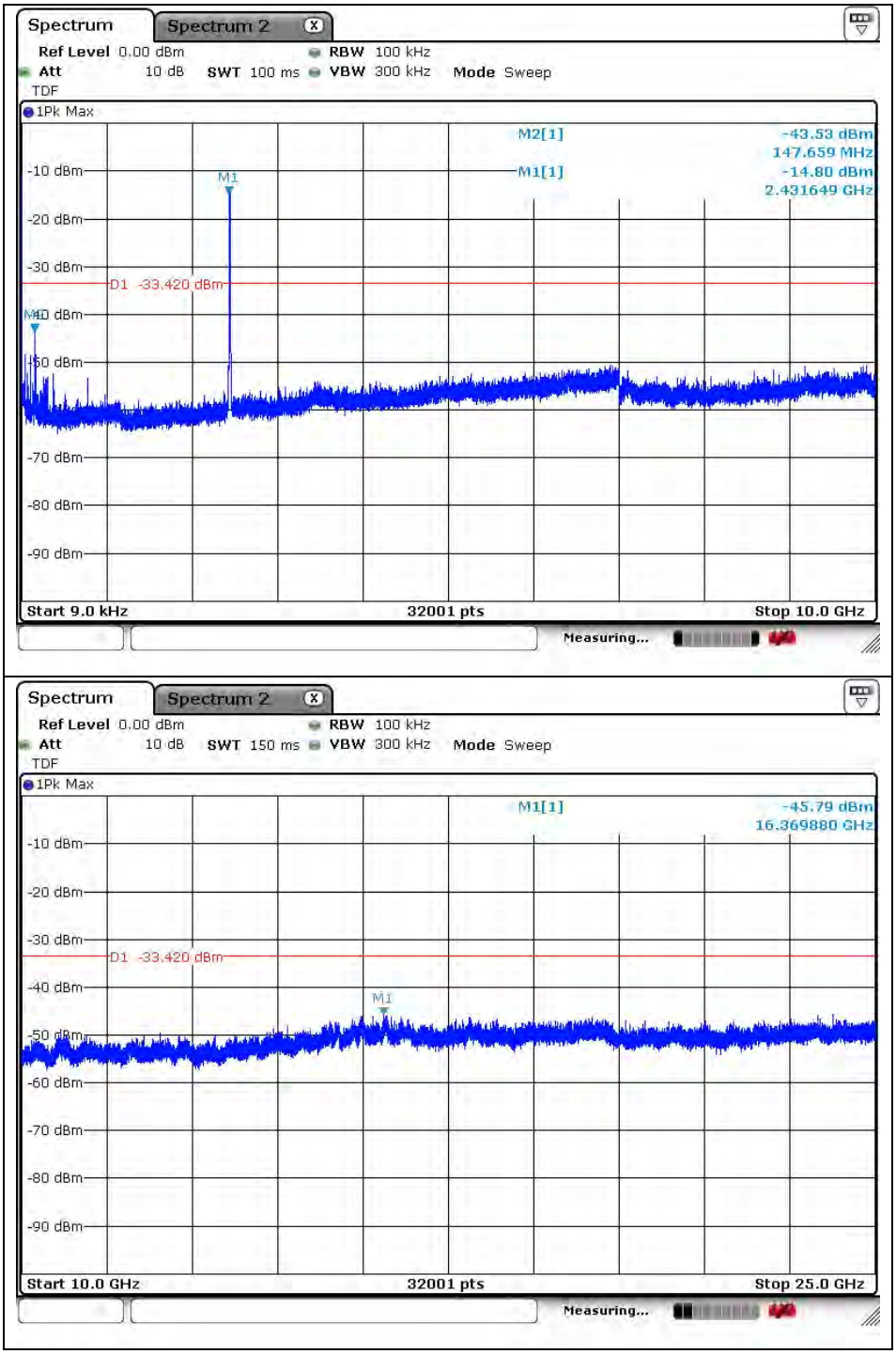
OFDM: 802.11n_HT20 (MCS0)

Low Channel

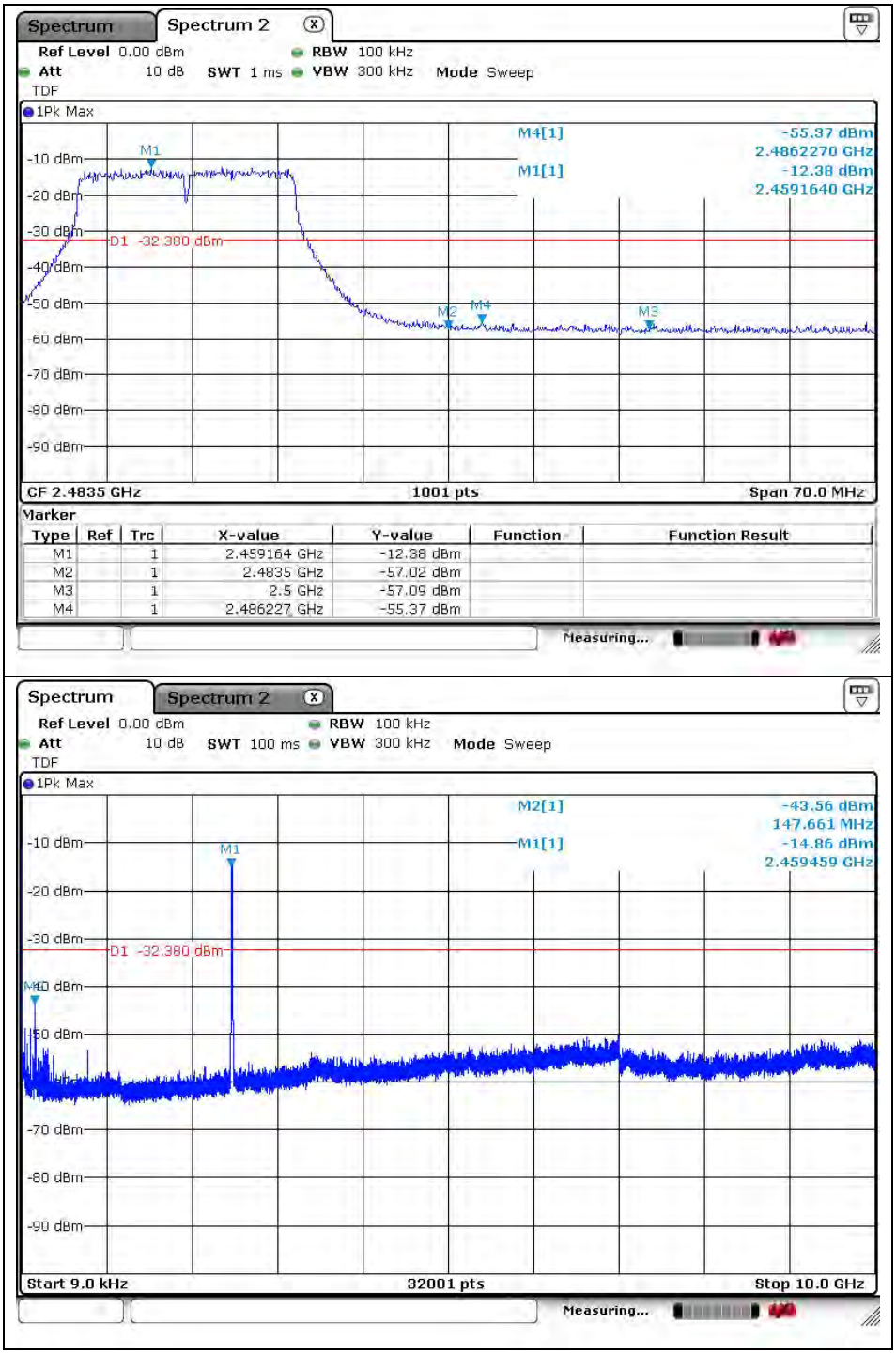


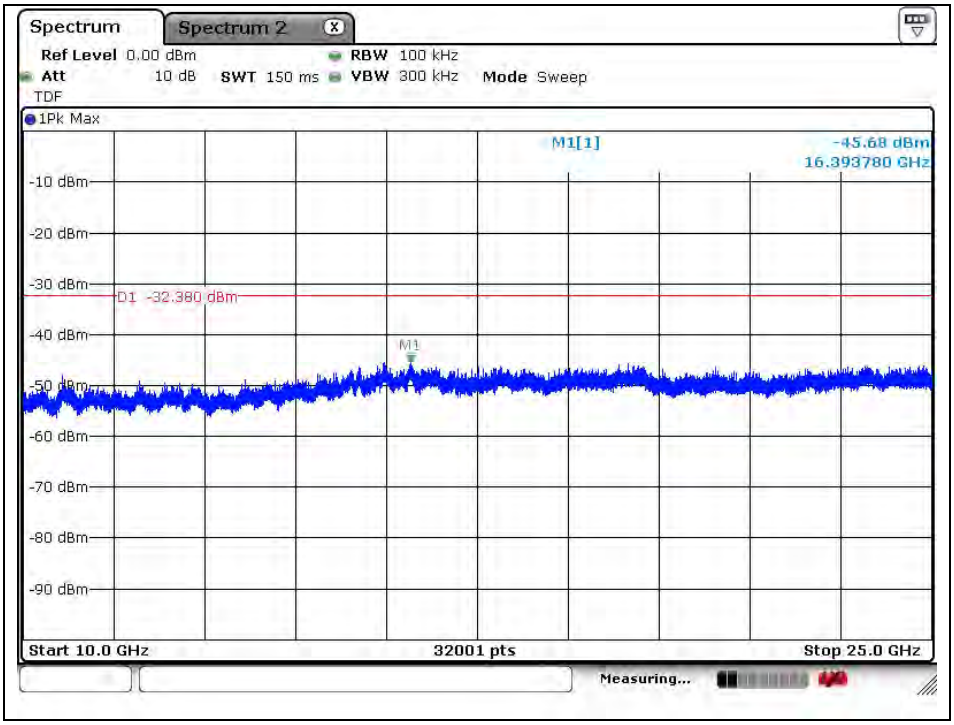


Middle Channel



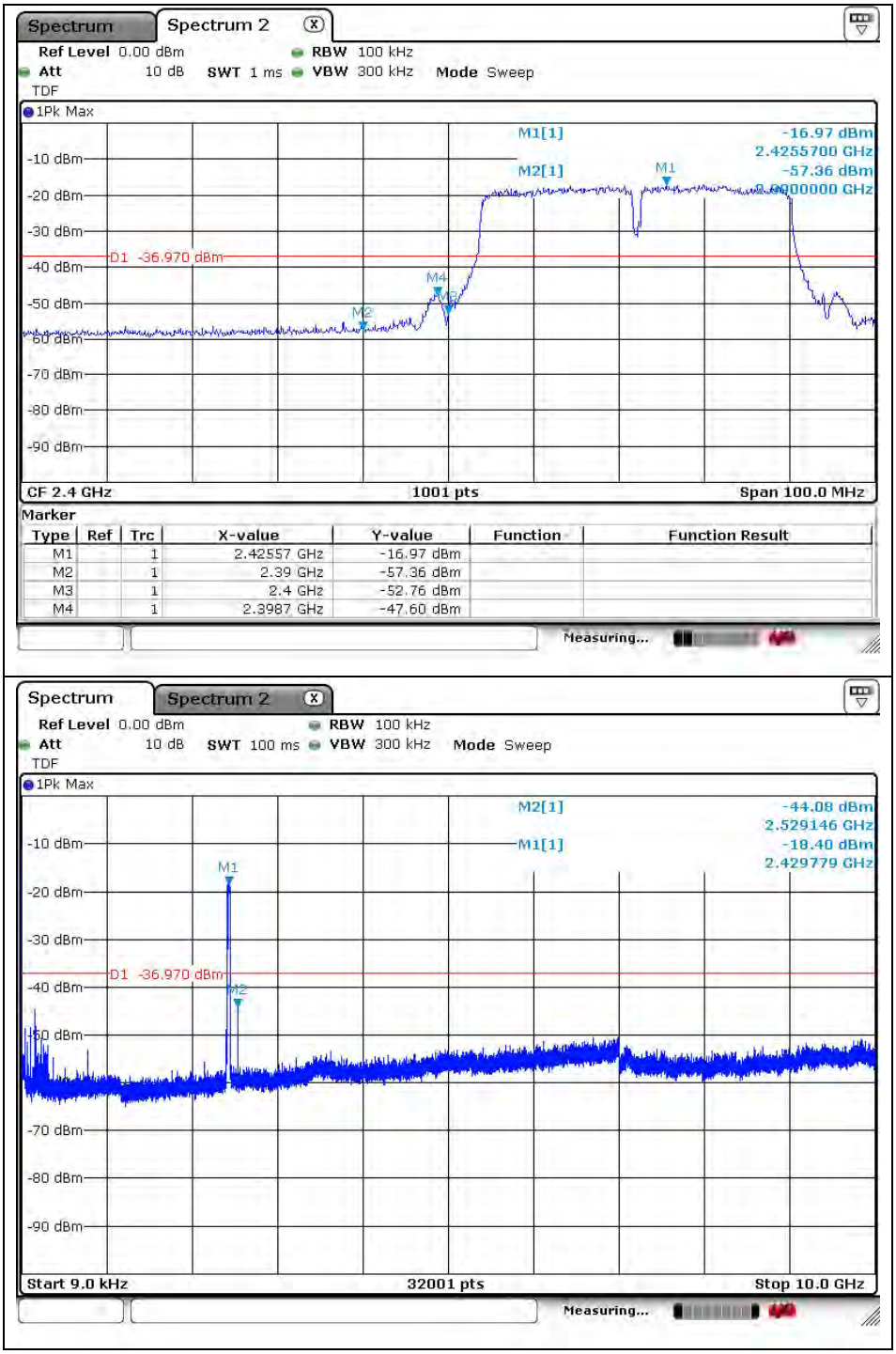
High Channel

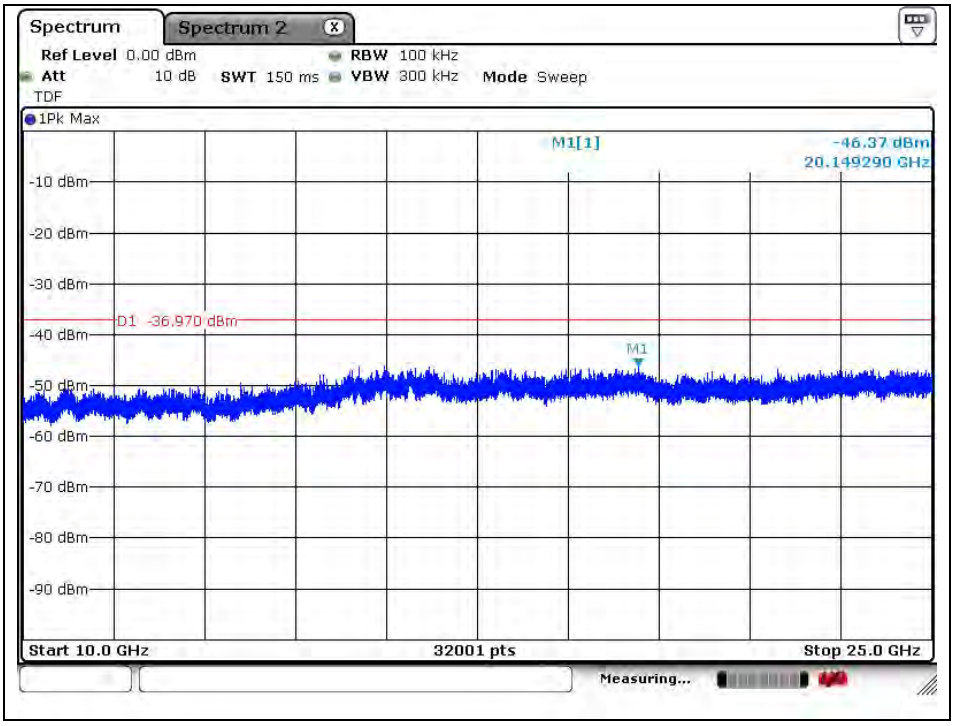




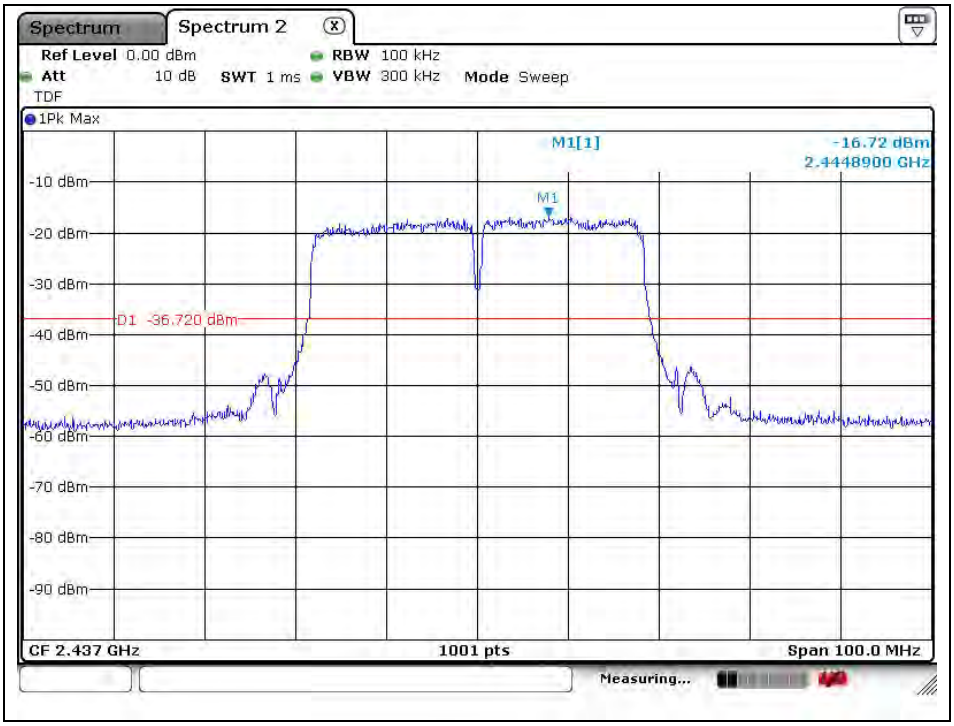
OFDM: 802.11n_HT40 (MCS0)

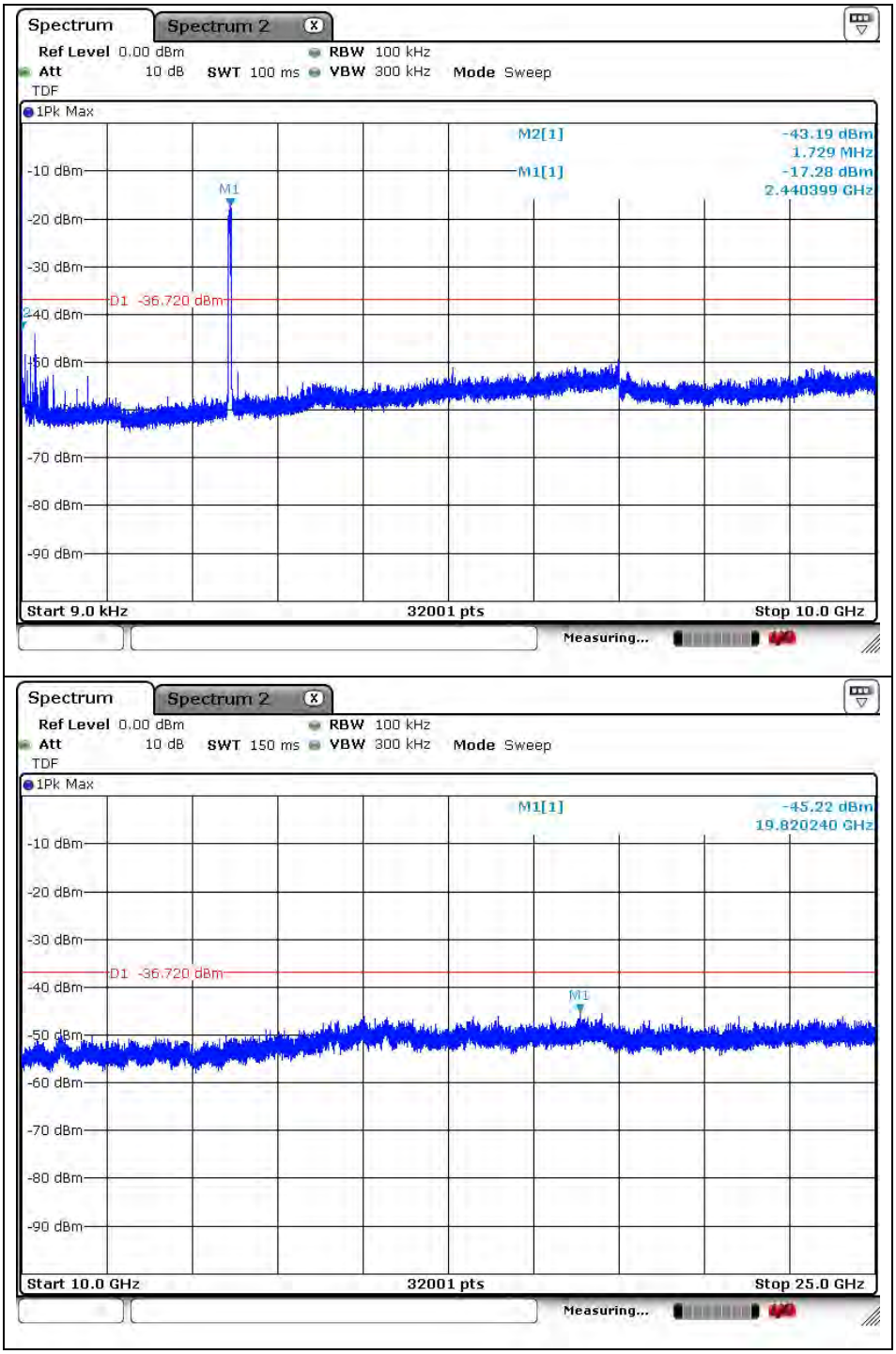
Low Channel



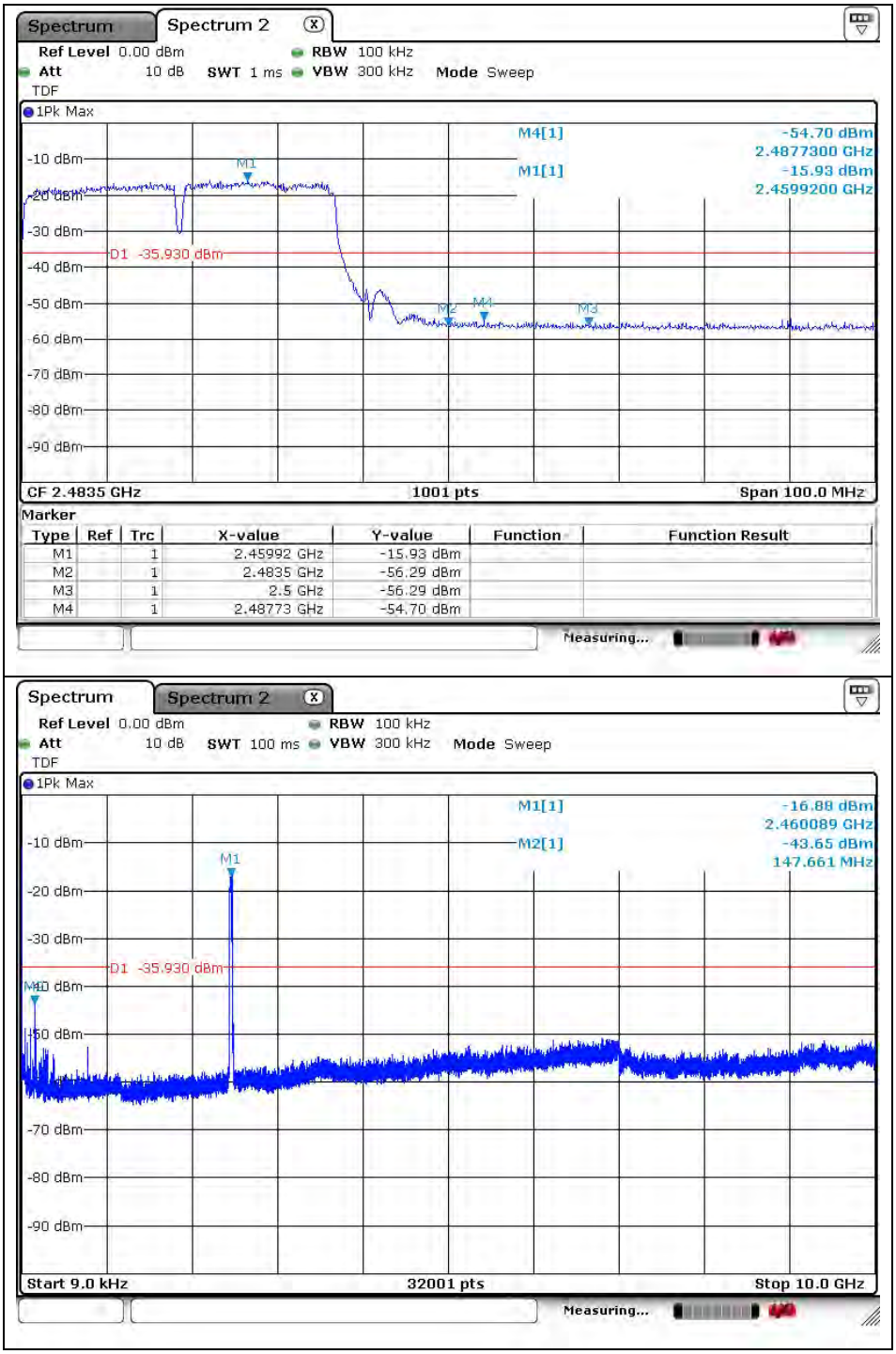


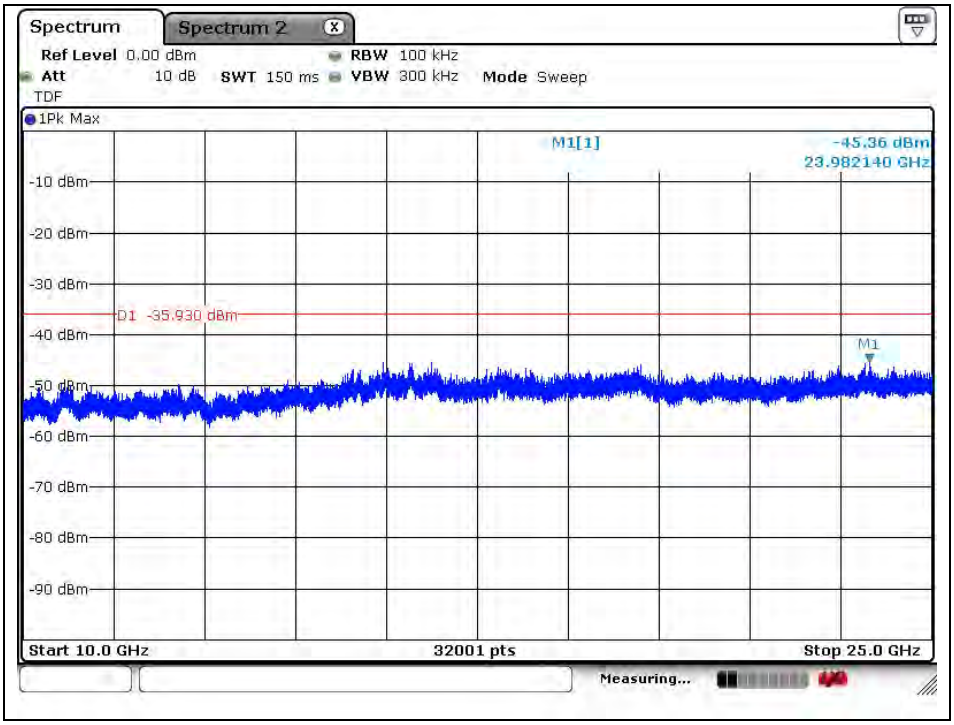
Middle Channel





High Channel





3. 6 dB Bandwidth

3.1. Test Setup

3.2. Limit

§15.247(a)(2), systems using digital modulation techniques may operate in the 902-928 ㎒, 2 400-2 483.5 ㎒, and 5 725-5 850 ㎒ bands. The minimum of 6 dB Bandwidth shall be at least 500 ㎑.

3.3. Test Procedure

3.3.1. 6 dB Bandwidth

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section

The test follows section 8.0 DTS bandwidth of KDB 558074 D01 DTS Meas Guidance v04.
Tests performed using section 8.1 Option 1.

- Option 1:
1. Set RBW = 100 ㎑.
2. Set the video bandwidth (VBW) ≥ 3 x RBW.
3. Detector = Peak.
4. Trace mode = Max hold.
5. Sweep = Auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude point (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4. Test Results

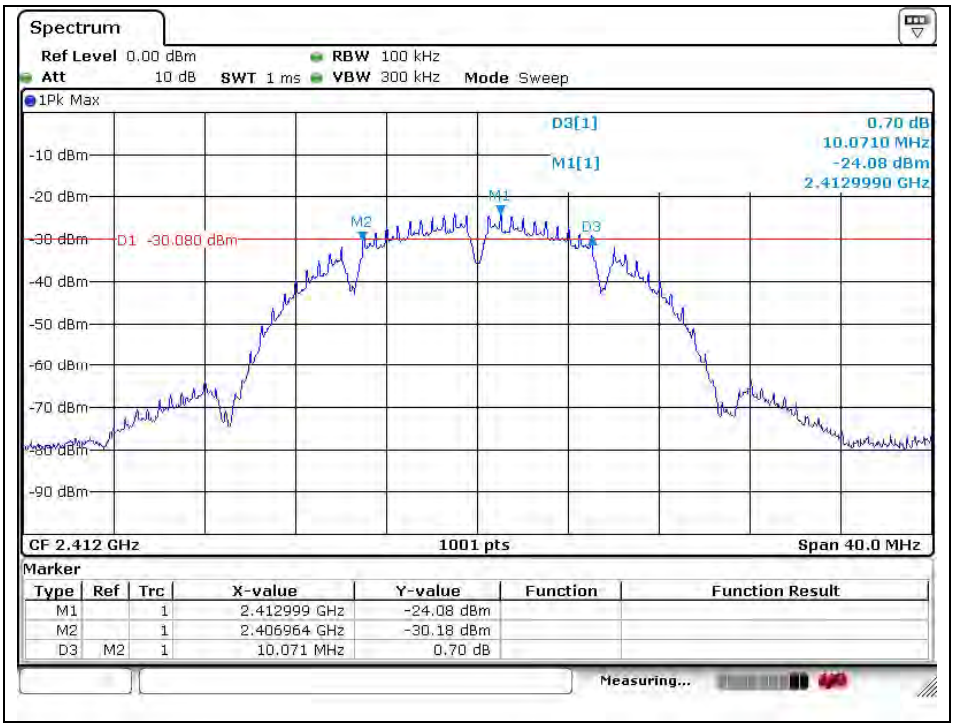
Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

Operation Mode	Data Rate	Channel	Frequency (㎒)	6 ㏈ Bandwidth (㎒)
DSSS (802.11b)	1 Mbps	Low	2 412	10.071
		Middle	2 437	10.085
		High	2 462	10.020
OFDM (802.11g)	6 Mbps	Low	2 412	16.543
		Middle	2 437	16.558
		High	2 462	16.623
OFDM (802.11n_HT20)	MCS0	Low	2 412	17.772
		Middle	2 437	17.797
		High	2 462	17.782
OFDM (802.11n_HT40)	MCS0	Low	2 422	36.394
		Middle	2 437	36.314
		High	2 452	36.394

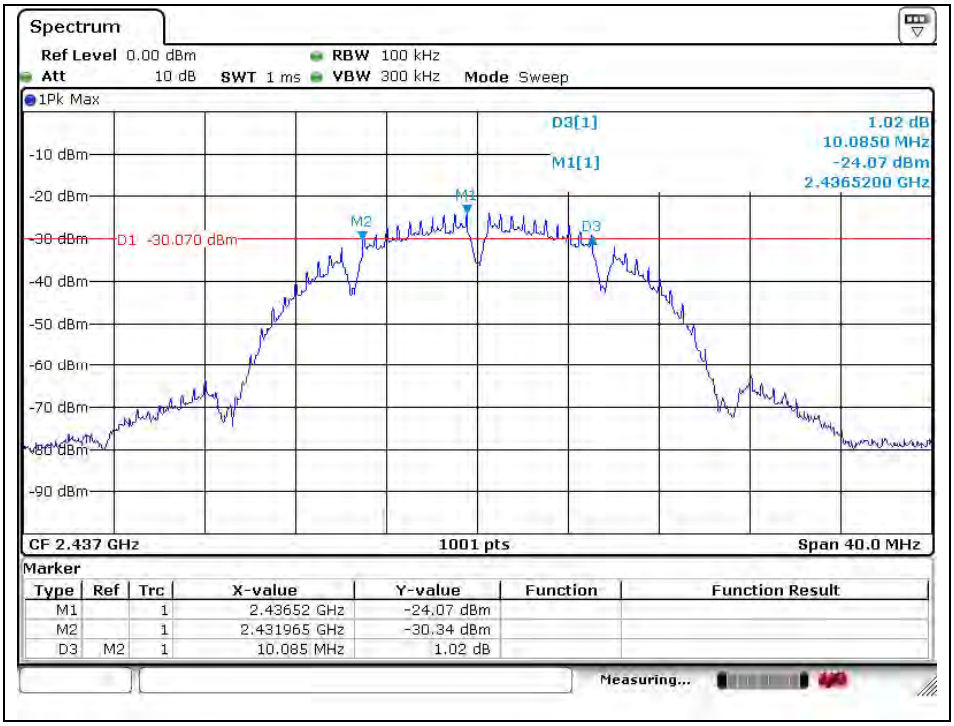
6 dB Bandwidth

DSSS: 802.11b

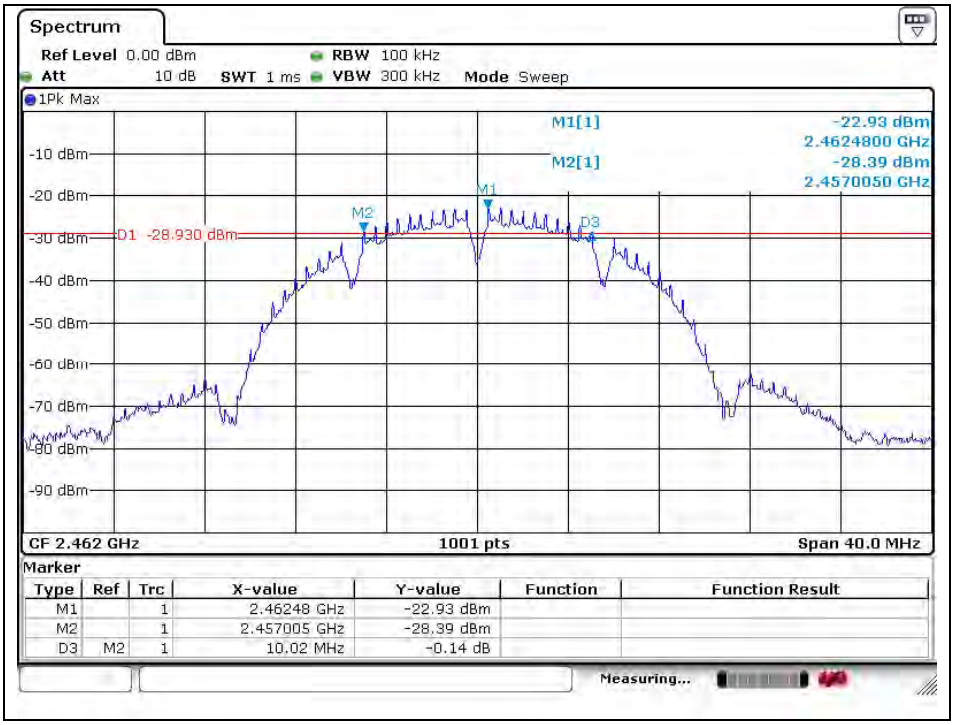
Low Channel



Middle Channel

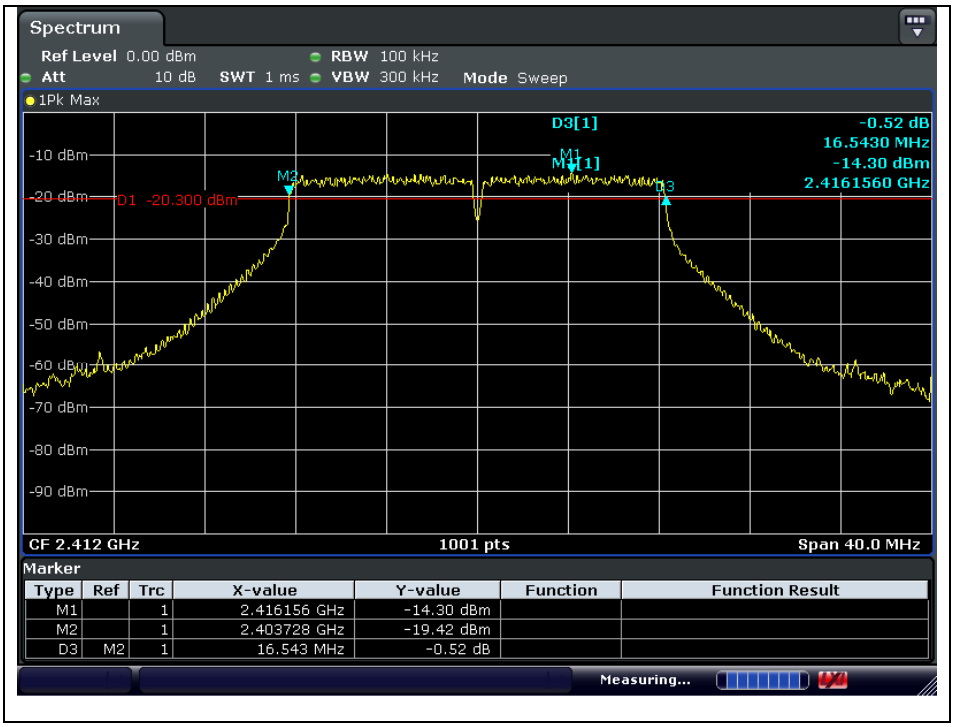


High Channel

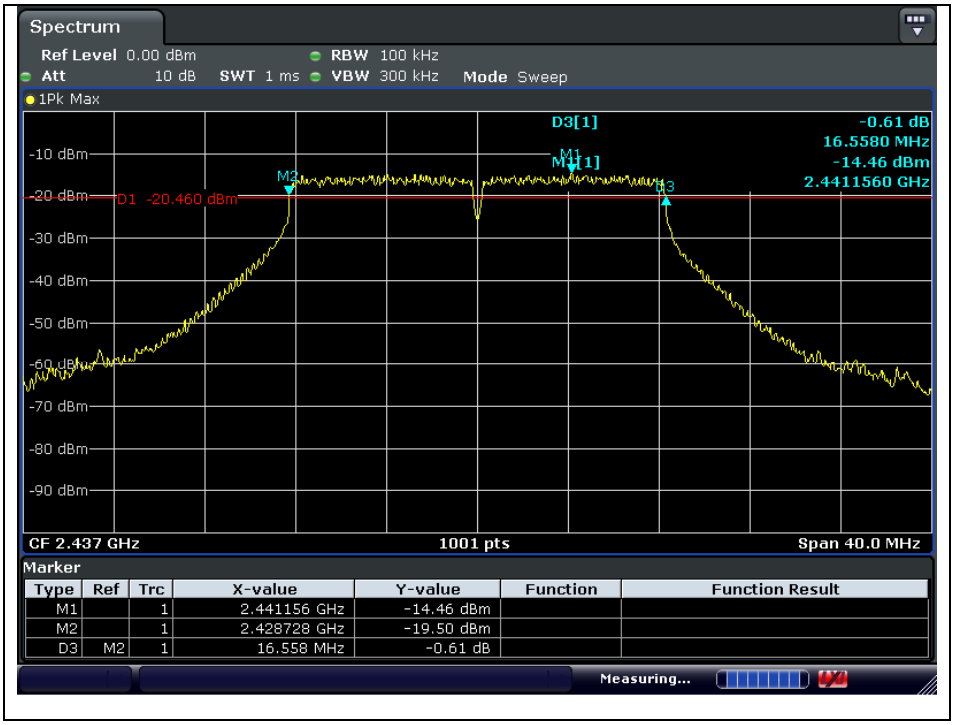


OFDM: 802.11g

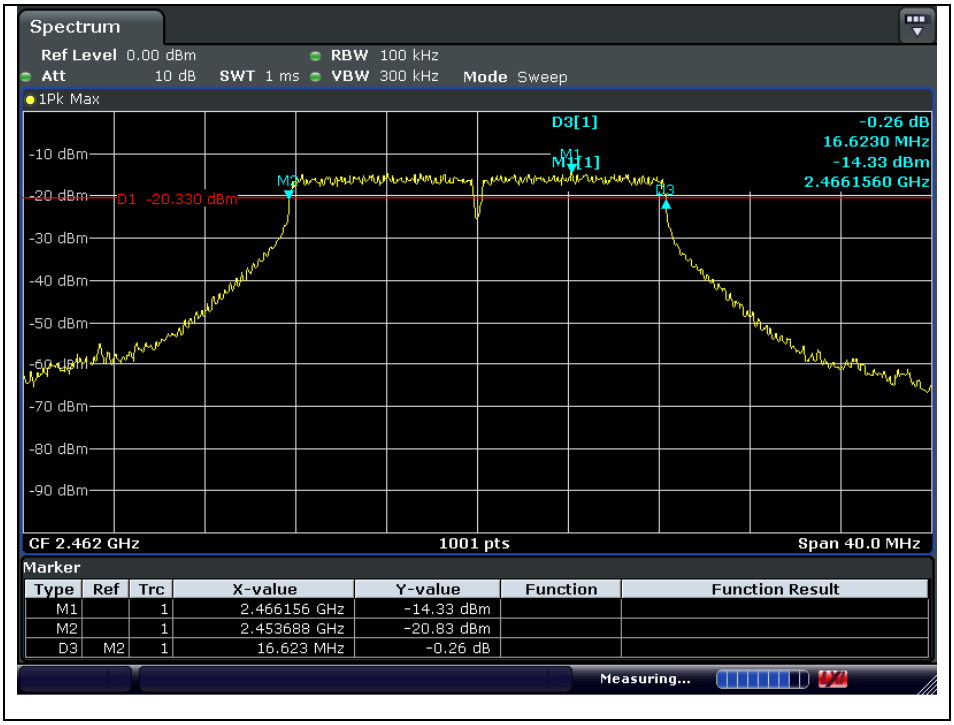
Low Channel



Middle Channel

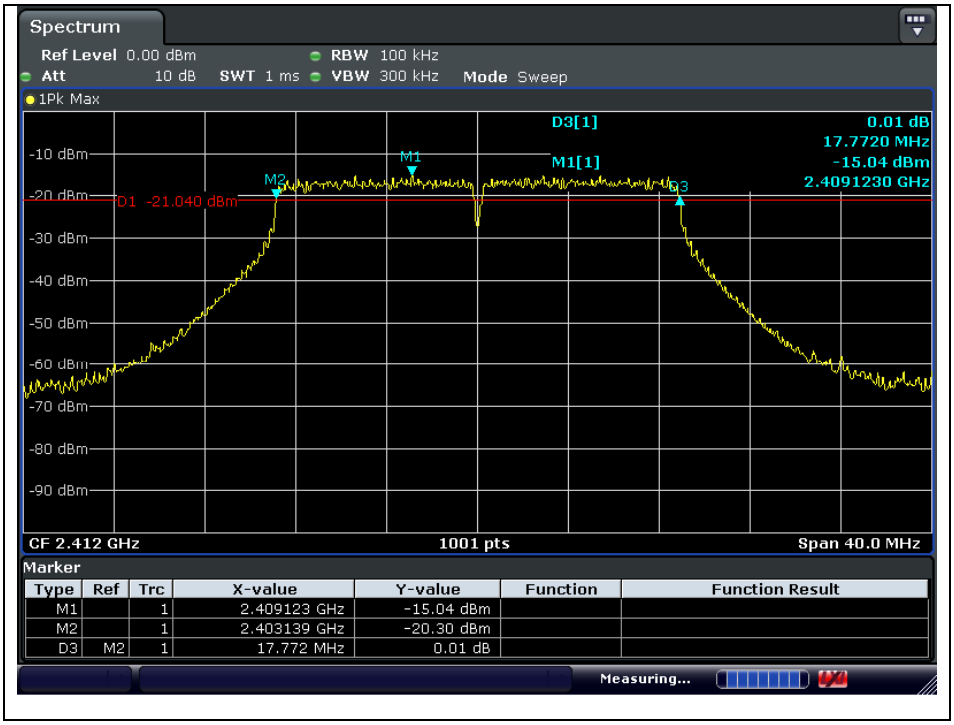


High Channel

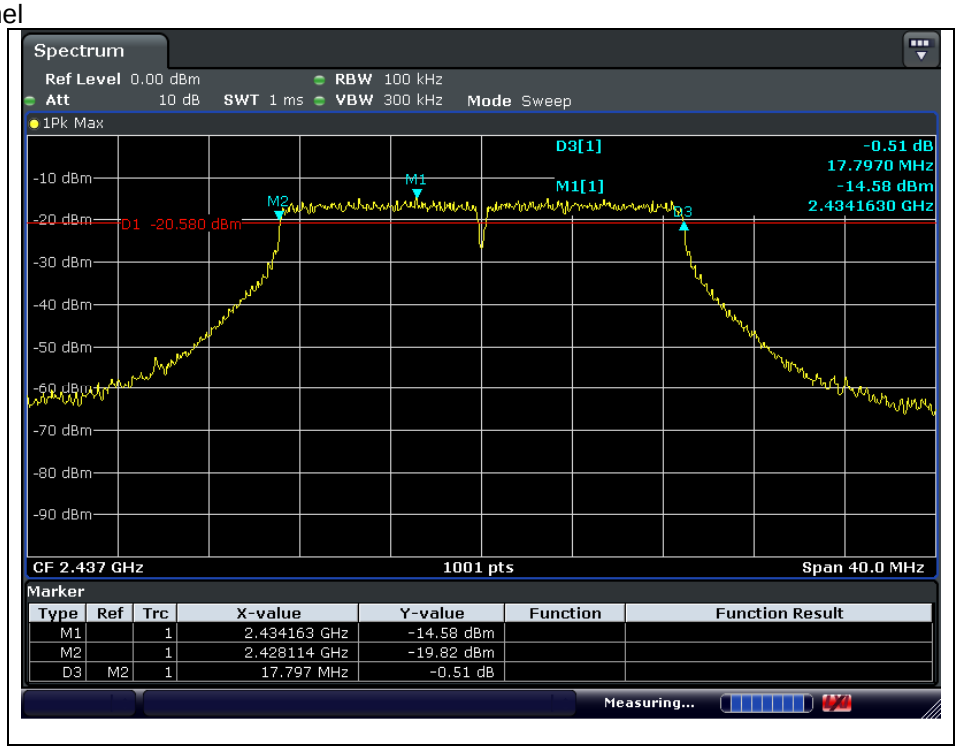


OFDM: 802.11n_HT20

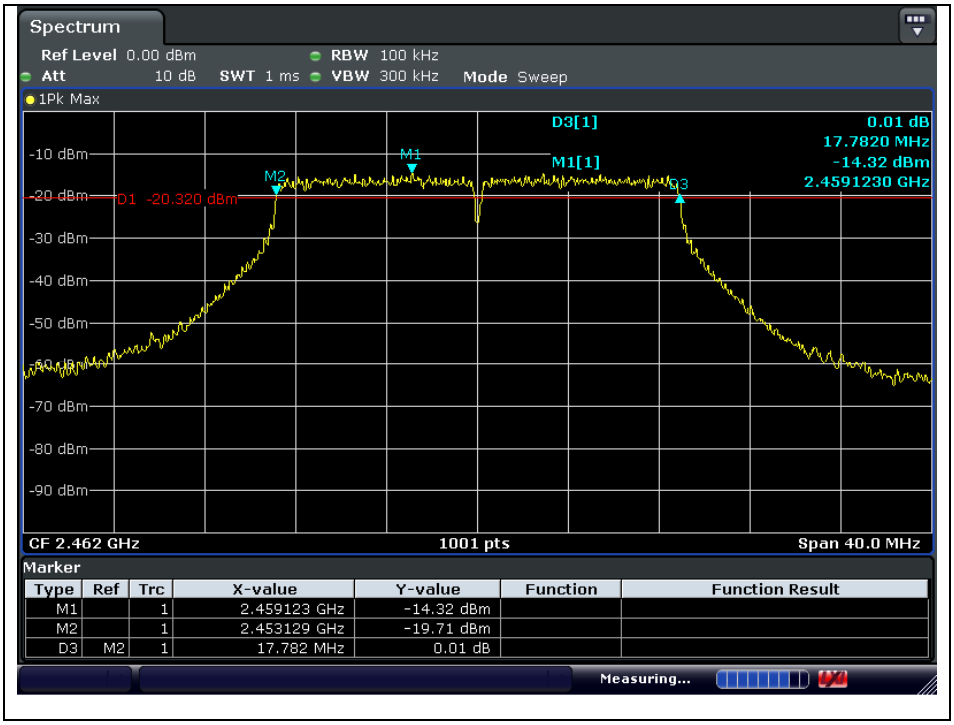
Low Channel



Middle Channel

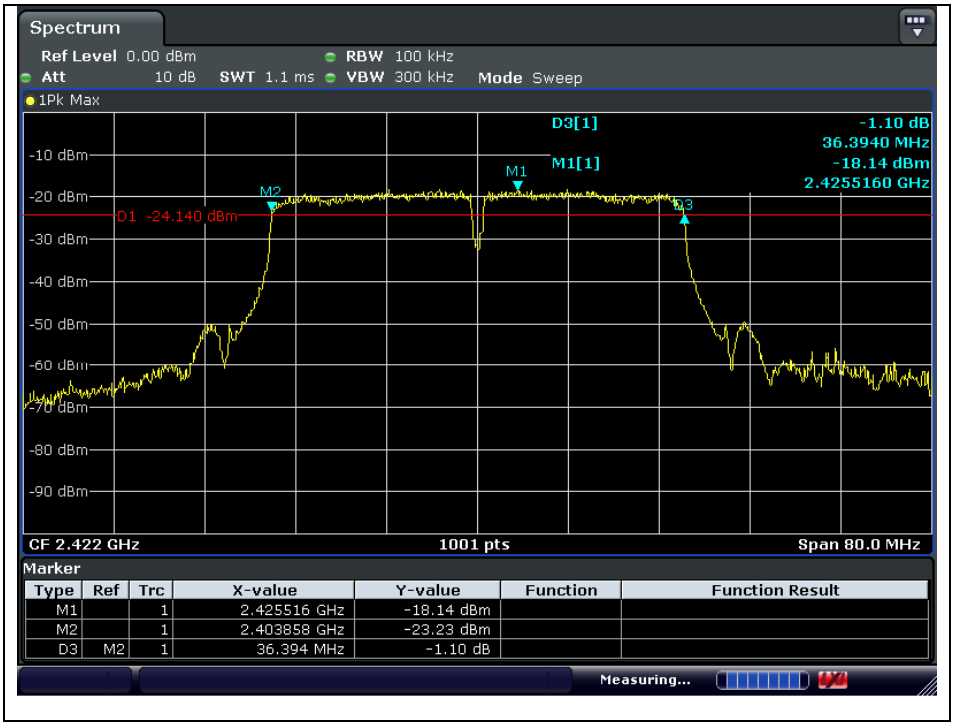


High Channel



OFDM: 802.11n_HT40

Low Channel

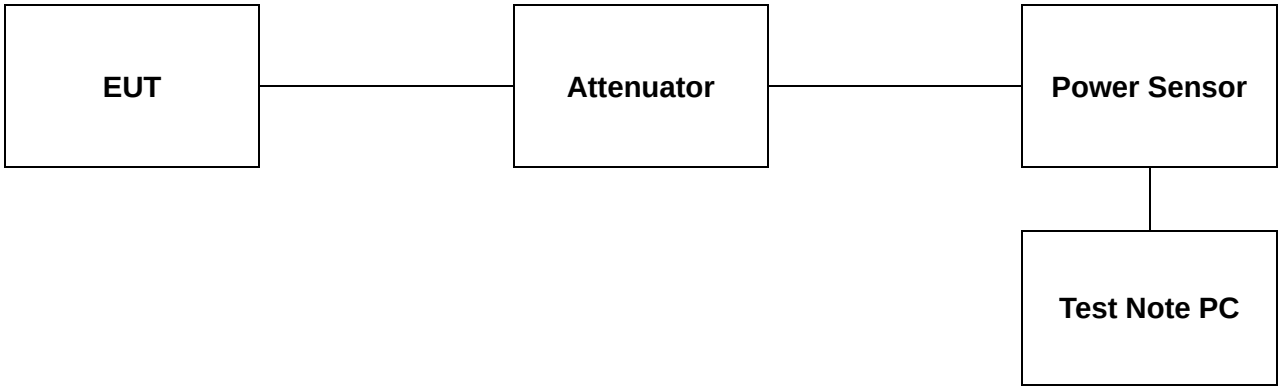


Middle Channel

High Channel

4. Maximum Peak Conducted Output Power

4.1. Test Setup



4.2. Limit

§15.247(b)(3), for systems using digital modulation in the 902-928 ㎒, 2 400-2 483.5 ㎒, and 5 725-5 850 ㎒ 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.
According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 ㏈i. Except as shown in paragraph (c) of this section, if transmitting antenna of directional gain greater than 6 ㏈i are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraph (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in ㏈ that the directional gain of the antenna exceeds 6 ㏈i.

4.3. Test Procedure

The test follows section 9.1.3 of KDB 558074 D01 DTS Meas Guidance v04.

- Peak power meter method

-The maximum peak conducted output power can be measured using a broad band peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.

Test program: (S/W name: R&S Power Viewer, Version: 3.2.0)

1. Initially overall offset for attenuator and cable loss is measured per frequency.
2. Measured offset is inserted in test program in advance of measurement for output power.
3. Power for each frequency (channel) of device is investigated as final result.
4. Final result reported on this section from R&S power viewer program includes with several factors and test program shows only final result.

4.4. Test Results

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

Mode	Channel	Frequency (㎒)	Data Rate	Average Power Result (dB m)	Peak Power Result (dB m)	Peak Power Limit (dB m)
DSSS (802.11b)	Low	2 412	1 Mbps	8.26	10.89	30
	Middle	2 437		8.61	11.21	
	High	2 462		8.73	**11.32**	
OFDM (802.11g)	Low	2 412	6 Mbps	0.31	10.07	
	Middle	2 437		0.48	**10.24**	
	High	2 462		0.31	10.06	
OFDM (802.11n_HT20)	Low	2 412	MCS0	0.32	9.62	
	Middle	2 437		0.72	**9.98**	
	High	2 462		0.74	9.96	
OFDM (802.11n_HT40)	Low	2 422	MCS0	-0.18	9.45	
	Middle	2 437		0.03	9.73	
	High	2 452		0.16	**9.87**	

Remark;

Attenuator and cable offset was compensated in test program (R&S Power Viewer) before measuring.

5. Power Spectral Density

5.1. Test Setup

5.2. Limit

§15.247(e) for digitally modulated system, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 ㏈m in any 3 ㎑ 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.

5.3. Test Procedure

All data rates and modes were investigated for this test. The full data for the worst case data rate are reported in this section.

The measurements are recorded using the PKPSD measurement procedure in section 10.2 of KDB 558074 D01 DTS Meas Guidance v04.

- This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance, and is optional if the maximum conducted (average) output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 x DTS bandwidth.
3. Set the RBW to 3 ㎑ ≤ RBW ≤ 100 ㎑.
4. Set the VBW ≥ 3 x RBW.
5. Detector = Peak.
6. Sweep time = Auto couple.
7. Trace mode = Max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level within the RBW.
10. If measured value exceeds limit, reduce RBW (no less than 3 ㎑) and repeat.

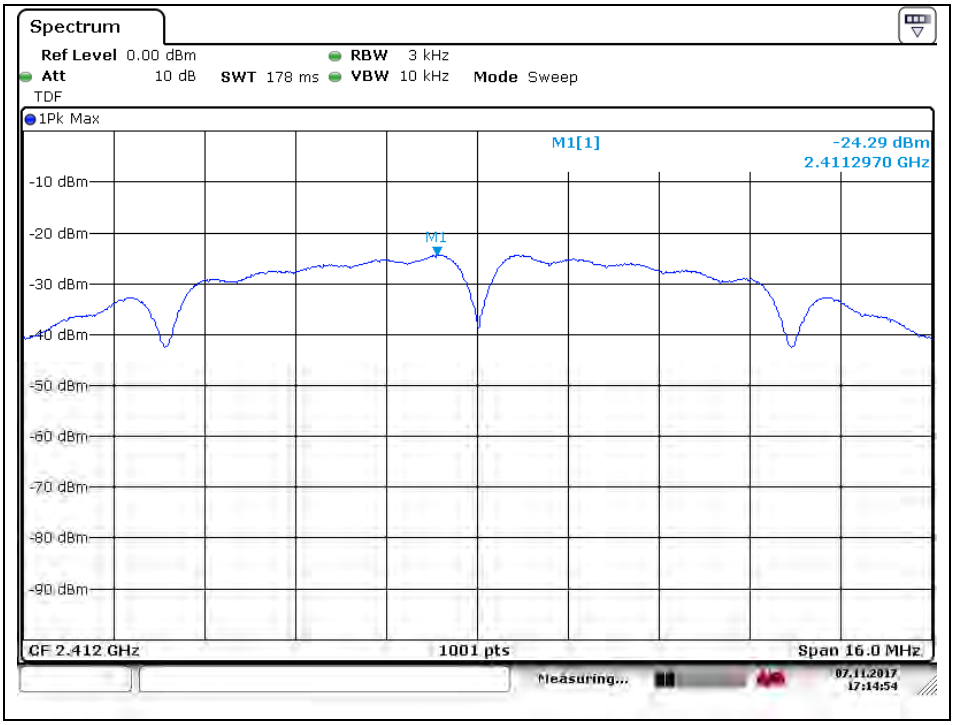
5.4. Test Results

Ambient temperature : (23 ± 1) ℃
Relative humidity : 47 % R.H.

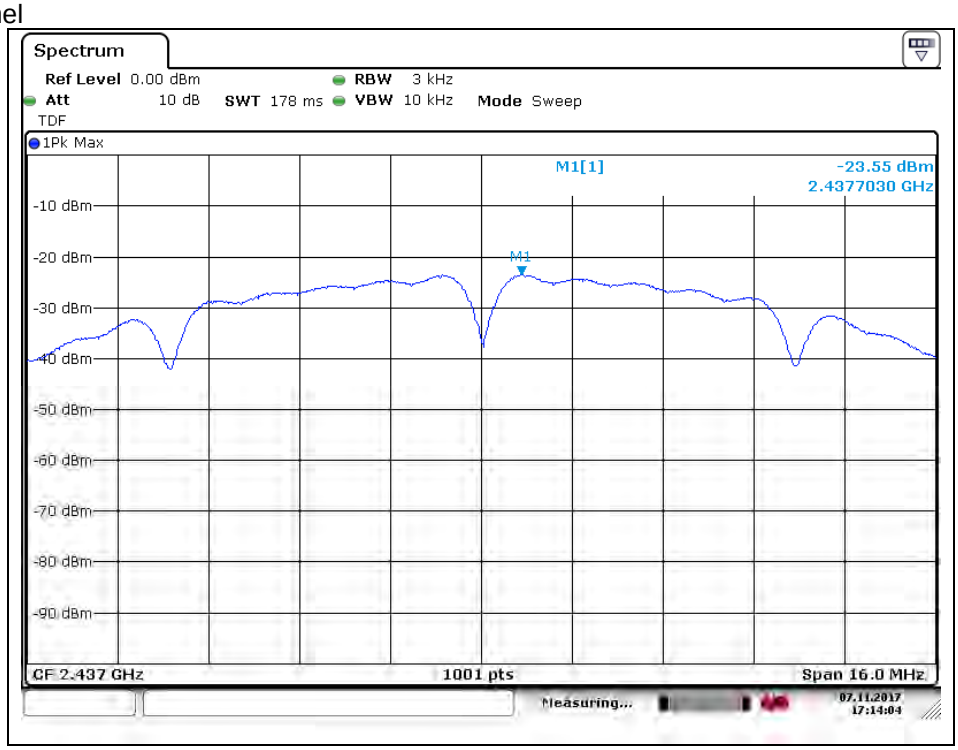
Operation Mode	Data Rate	Channel	Frequency (㎒)	Measured PSD (㏈m)	Maximum Limit (㏈m)
DSSS (802.11b)	1 Mbps	Low	2 412	-24.29	8
		Middle	2 437	-23.55	
		High	2 462	-21.89	
OFDM (802.11g)	6 Mbps	Low	2 412	-28.90	
		Middle	2 437	-27.86	
		High	2 462	-26.49	
OFDM (802.11n_HT20)	MCS0	Low	2 412	-28.28	
		Middle	2 437	-27.36	
		High	2 462	-27.06	
OFDM (802.11n_HT40)	MCS0	Low	2 422	-29.26	
		Middle	2 437	-27.98	
		High	2 452	-27.64	

DSSS: 802.11b

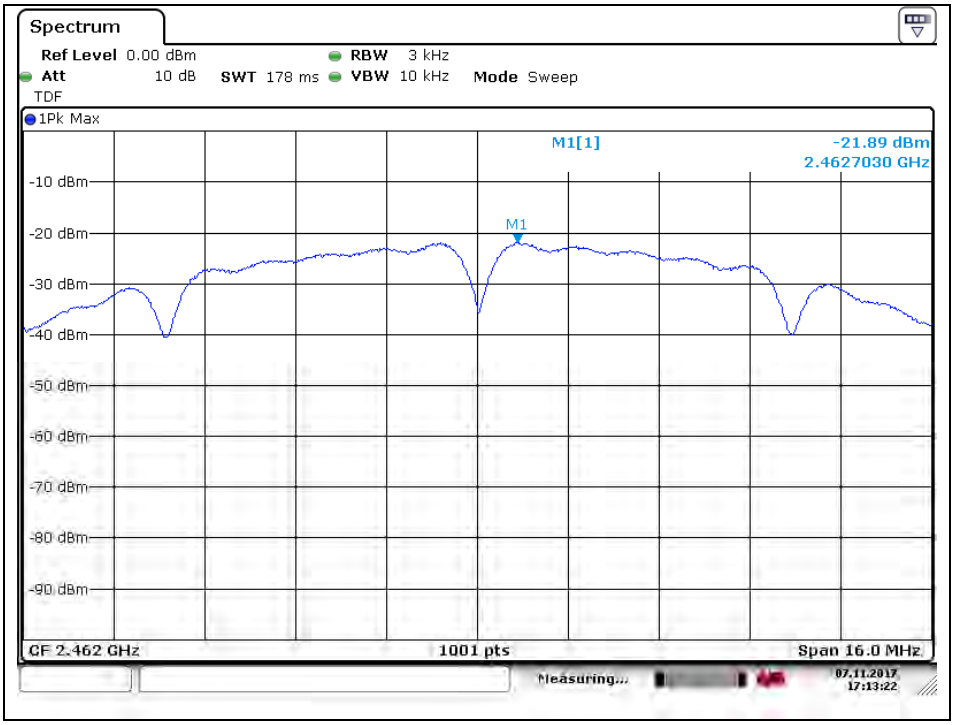
Low Channel



Middle Channel

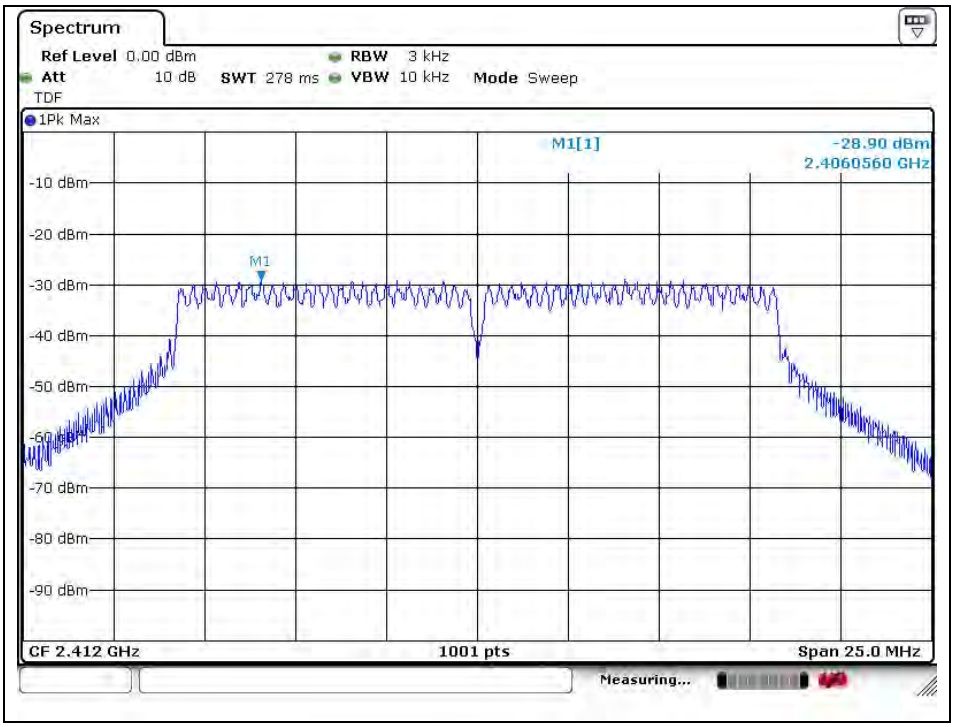


High Channel

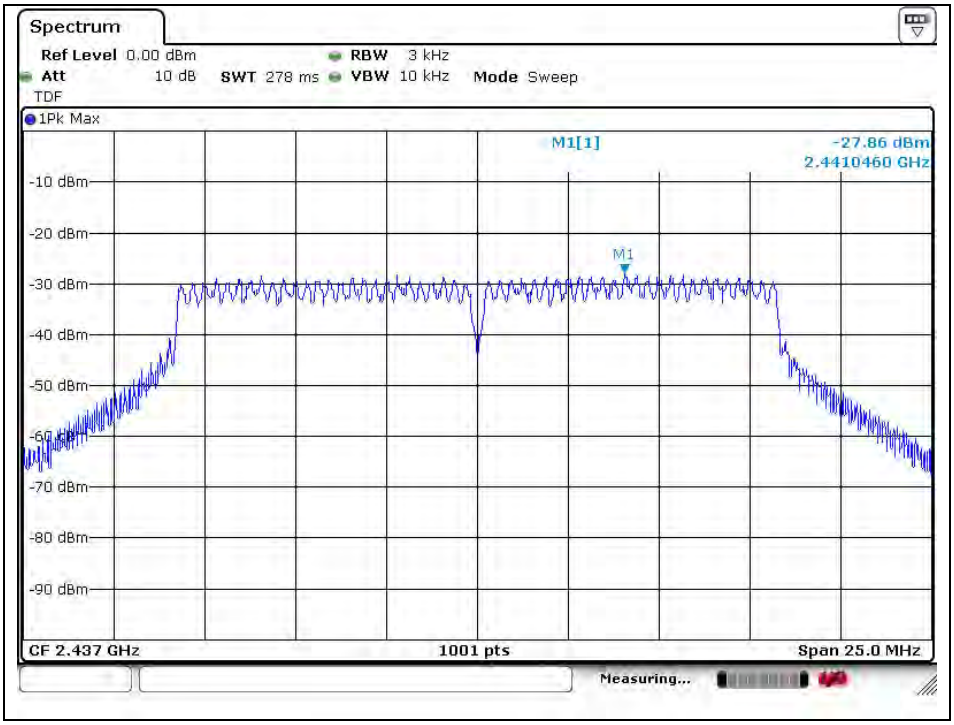


OFDM: 802.11g

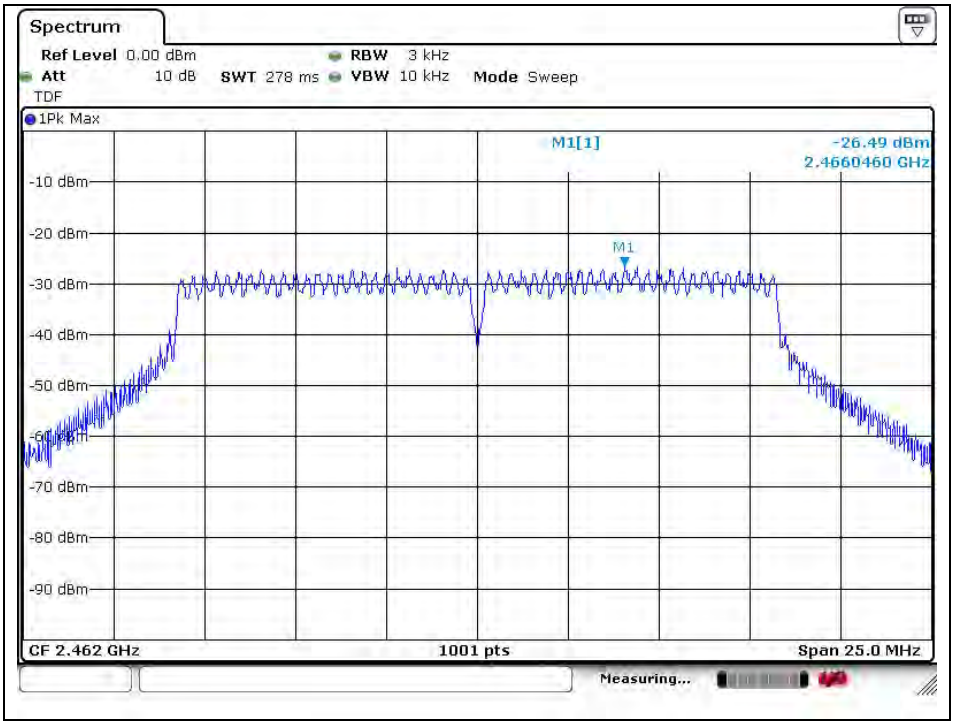
Low Channel



Middle Channel

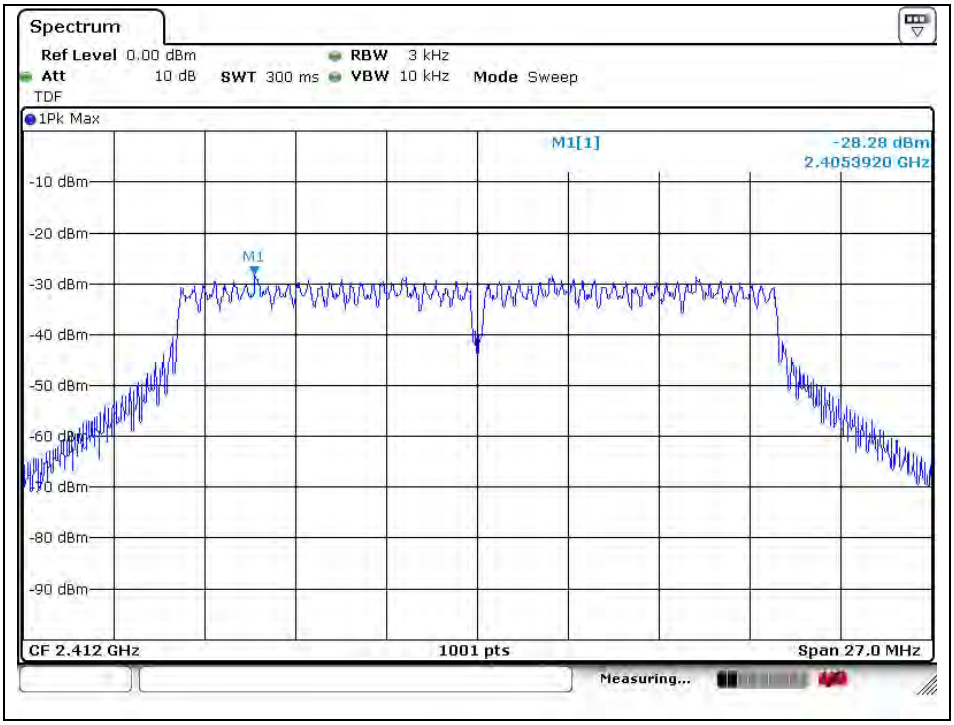


High Channel

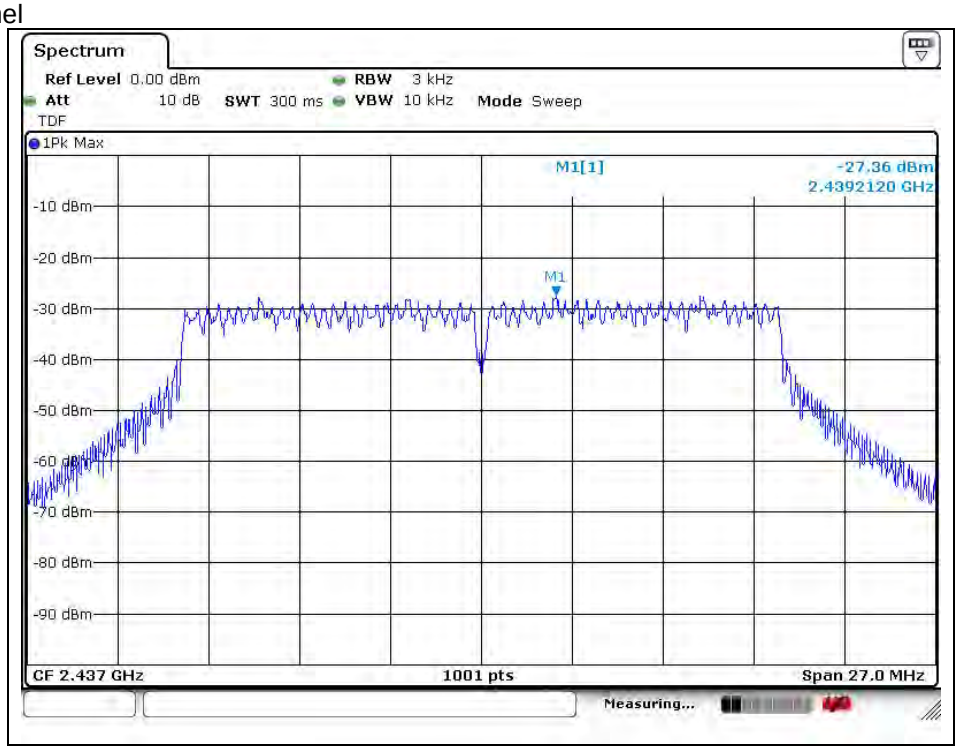


OFDM: 802.11n_HT20

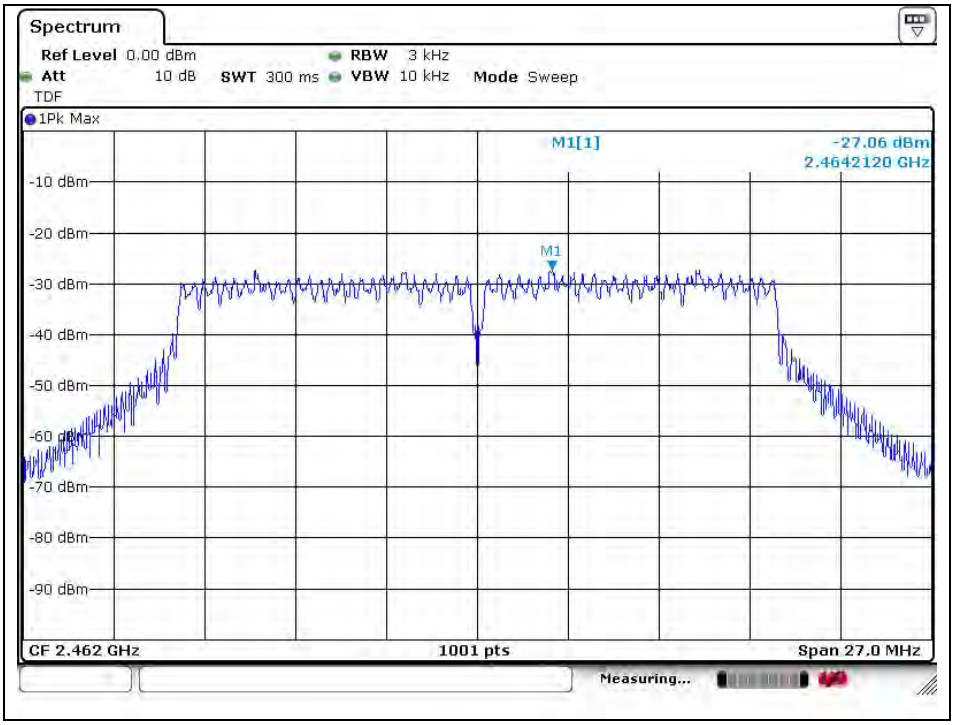
Low Channel



Middle Channel

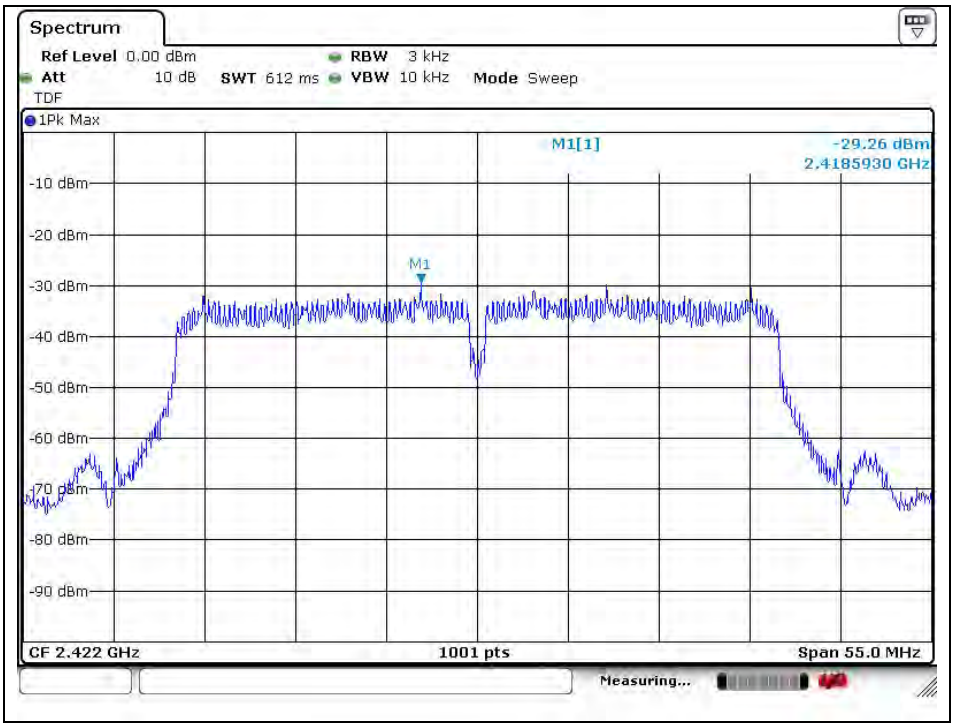


High Channel

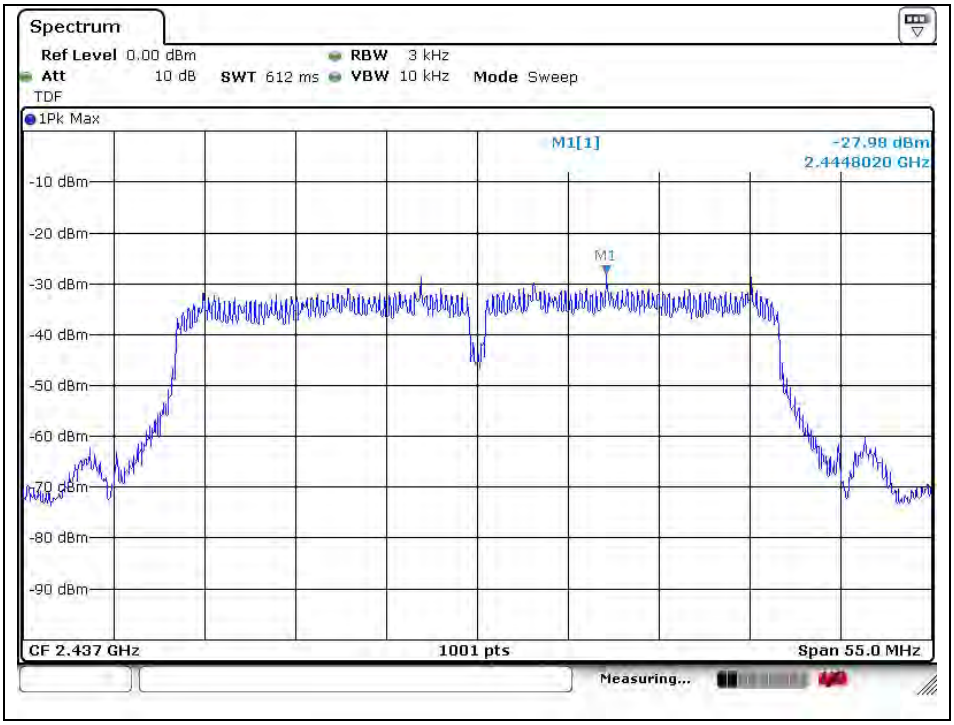


OFDM: 802.11n_HT40

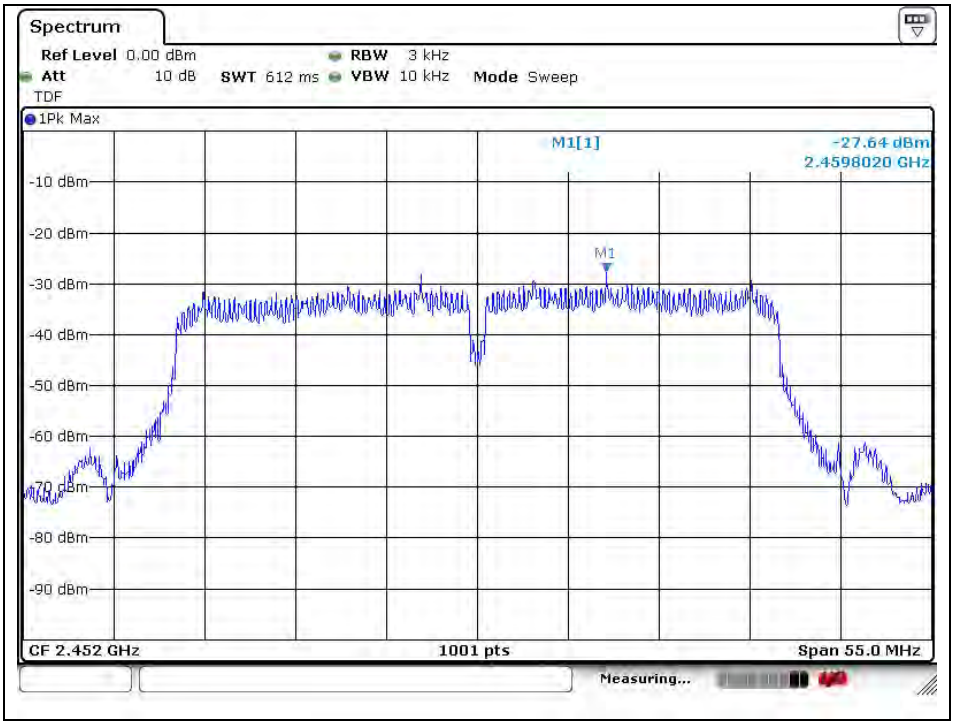
Low Channel



Middle Channel

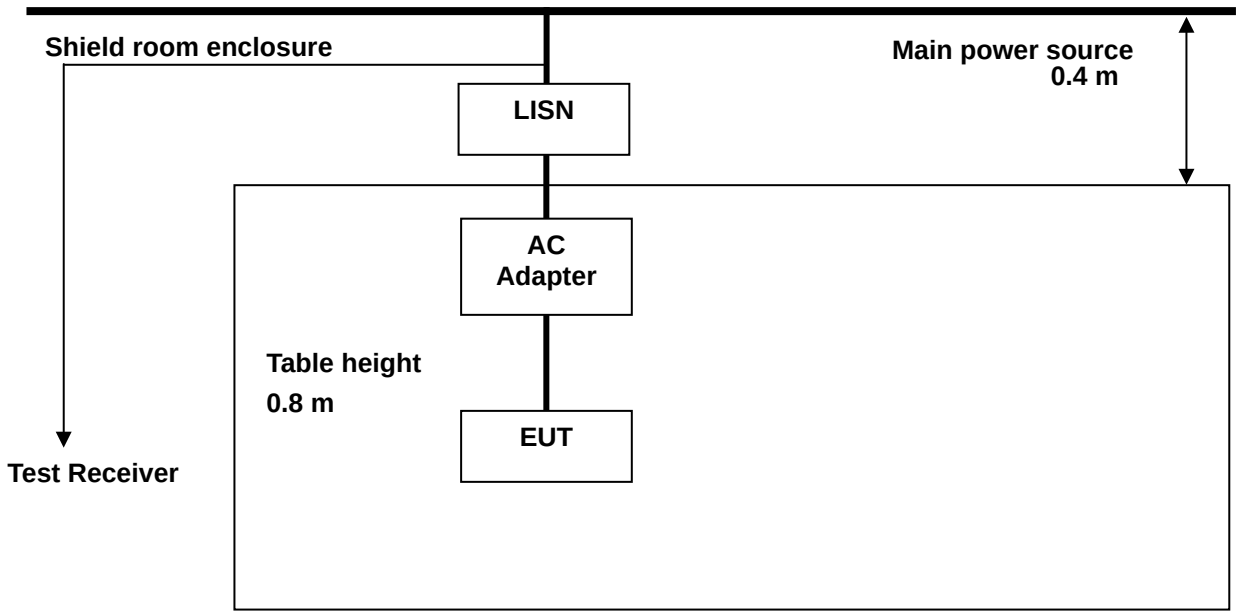


High Channel



6. AC Power Line Conducted Emission

6.1. Test Setup



6.2. Limit

According to §15.207(a) for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 ㎑ to 30 ㎒, shall not exceed the limits in the following table, as measured using a 50 ㎕H /50 ohm line impedance stabilization network(LISN).
Compliance with the provision of this paragraph shall on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower applies at the boundary between the frequency ranges.

Frequency of Emission (㎒)	Conducted limit (dB㎶)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

6.3. Test Procedures

AC conducted emissions from the EUT were measured according to the dictates of ANSI C63.10-2013.

1. The test procedure is performed in a 6.5 m × 3.5 m× 3.5 m (L × W × H) shielded room. The EUT along with its peripherals were placed on a 1.0 m (W) × 1.5 m (L) and 0.8 m in height wooden table and the EUT was adjusted to maintain a 0.4 meter space from a vertical reference plane.
2. The EUT was connected to power mains through a line impedance stabilization network (LISN) which provides 50 ohm coupling impedance for measuring instrument and the chassis ground was bounded to the horizontal ground plane of shielded room.
3. All peripherals were connected to the second LISN and the chassis ground also bounded to the horizontal ground plane of shielded room.
4. The excess power cable between the EUT and the LISN was bundled. The power cables of peripherals were unbundled. All connecting cables of EUT and peripherals were moved to find the maximum emission.

6.4. Test Results

The following table shows the highest levels of conducted emissions on both phase of Hot and Neutral line.

Ambient temperature : (24 ± 1) ℃
Relative humidity : 47 % R.H.

Frequency range : 150 ㎑ to 30 ㎒
Measured Bandwidth : 9 ㎑

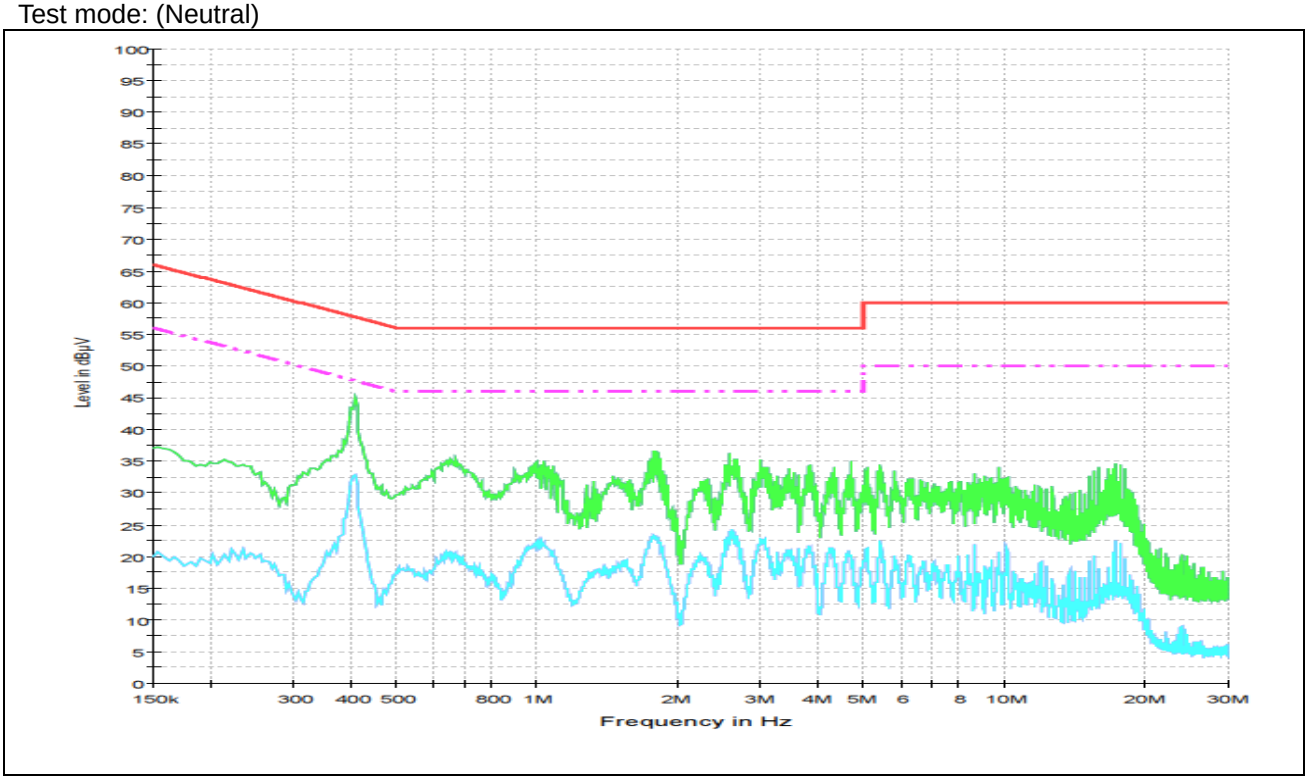
FREQ.	LEVEL (dBμV)		LINE	LIMIT (dBμV)		MARGIN (dB)	
(㎒)	Q-Peak	Average		Q-Peak	Average	Q-Peak	Average
0.41	40.50	32.80	N	57.65	47.65	17.15	14.85
1.03	27.90	21.80	N	56.00	46.00	28.10	24.20
1.79	27.50	22.90	N	56.00	46.00	28.50	23.10
4.70	27.70	20.30	N	56.00	46.00	28.30	25.70
9.76	28.60	20.90	N	60.00	50.00	31.40	29.10
17.35	30.20	21.50	N	60.00	50.00	29.80	28.50
0.40	54.30	44.20	H	57.85	47.85	3.55	3.65
1.00	32.50	28.40	H	56.00	46.00	23.50	17.60
2.61	34.20	28.80	H	56.00	46.00	21.80	17.20
5.42	32.00	24.70	H	60.00	50.00	28.00	25.30
10.12	32.00	23.50	H	60.00	50.00	28.00	26.50
16.99	35.60	27.40	H	60.00	50.00	24.40	22.60

Remark:

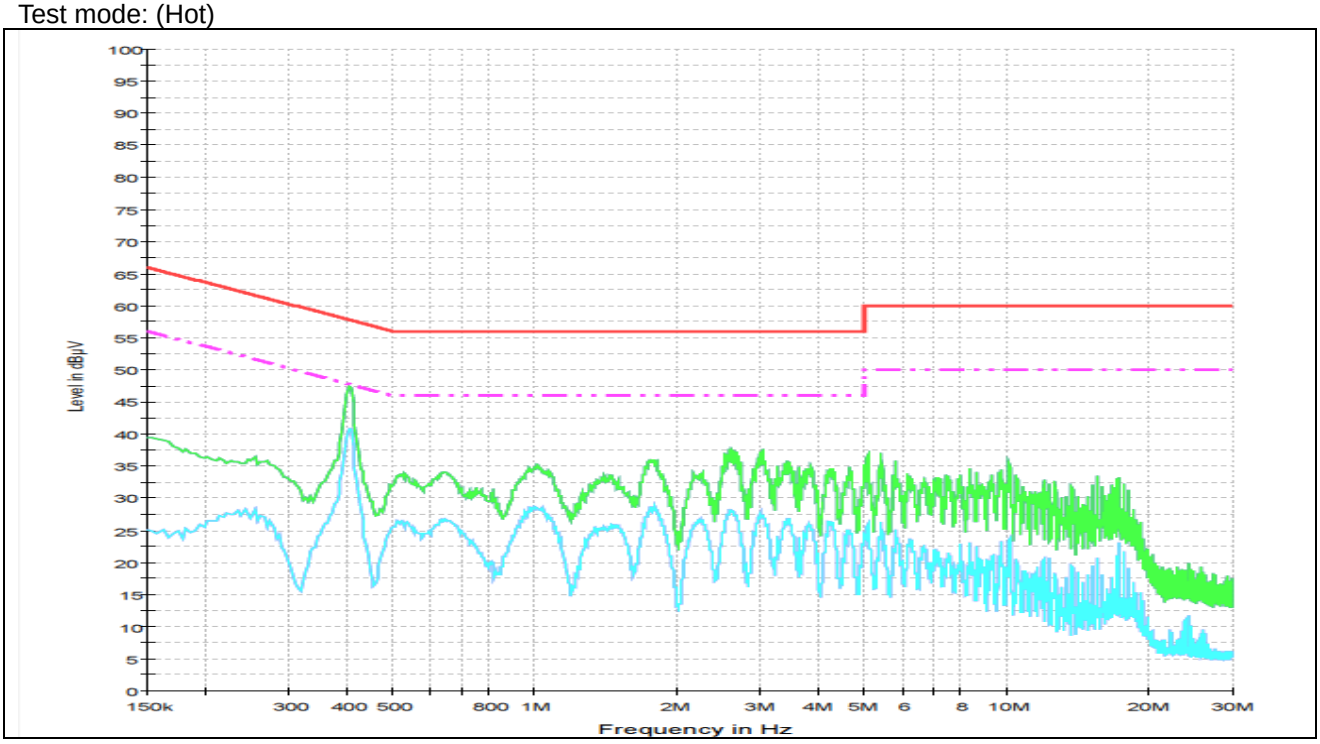
1. Line (H): Hot, Line (N): Neutral.
2. All modes of operation were investigated and the worst-case emissions were reported using **11b / 1 Mbps / High channel.**
3. The limit for Class B device(s) from 150 ㎑ to 30 ㎒ are specified in Section of the Title 47 CFR.
4. Traces shown in plot were made by using a peak detector and average detector.
5. Deviations to the Specifications: None.

Plots of Conducted Power line

Test mode: (Neutral)



Test mode: (Hot)



7. Antenna Requirement

7.1. Standard Applicable

For intentional device, according to FCC 47 CFR Section §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. And according to FCC 47 CFR Section §15.247 (b) if transmitting antennas of directional gain greater than 6 dBi are used, the power shall be reduced by the amount in dB that the gain of the antenna exceeds 6 dBi.

7.2. Antenna Connected Construction

Antenna used in this product is PCB Antenna with gain of 0 dBi.

- End of the Test Report -