FCC RADIO TEST REPORT
FCC ID: 2AZQY-G105

Product: 10.5-inch 2-in-1 tablet
Trade Mark: Visionsky
Model No.: G105
Family Model: N/A
Report No.: S21070801401003
Issue Date: Aug 28, 2021

Prepared for

Visionsky (SZ) Industrial Co., Ltd

303A, Xiagu, Meisheng Chuanggu, no. 10, Longchang Road, 68 district, Xingdong community, Xin 'an street, Bao 'an district, Shenzhen, China

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name ..... :	Visionsky (SZ) Industrial Co., Ltd
Address ..... :	303A, Xiagu, Meisheng Chuanggu, no. 10, Longchang Road, 68 district, Xingdong community, Xin 'an street, Bao 'an district, Shenzhen, China
Manufacturer's Name ..... :	Visionsky (SZ) Industrial Co., Ltd Shiyan Branch
Address ..... :	Floor 4, building a, east Shilongzi road, Shuitian community, Shiyan Street, Bao 'an district, Shenzhen, China
Product description	
Product name ..... :	10.5-inch 2-in-1 tablet
Model and/or type reference ..... :	G105
Family Model ..... :	N/A

Measurement Procedure Used:

APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2013 KDB 558074 D01 15.247 Meas Guidance v05r02	Complied

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.
This report shall not be reproduced except in full, without the written approval of Shenzhen NTEK Testing Technology Co., Ltd., this document may be altered or revised by Shenzhen NTEK Testing Technology Co., Ltd., personnel only, and shall be noted in the revision of the document.
The test results of this report relate only to the tested sample identified in this report.

Date of Test : Jul 12. 2021 ~Aug 27, 2021

Testing Engineer : Allen Liu
(Allen Liu)

Authorized Signatory : Alex
(Alex Li)

2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C			
Standard Section	**Test Item**	**Verdict**	**Remark**
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Maximum Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:
1. "N/A" denotes test is not applicable in this Test Report.
2. All test items were verified and recorded according to the standards and without any deviation during the test.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
Shenzhen, Guangdong, China
The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab.	:	The Certificate Registration Number is L5516.
IC-Registration		The Certificate Registration Number is 9270A. CAB identifier:CN0074
FCC- Accredited		Test Firm Registration Number: 463705. Designation Number: CN1184
A2LA-Lab.		The Certificate Registration Number is 4298.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).
Name of Firm	:	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	:	1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District Shenzhen, Guangdong, China

3.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	±2.80dB
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(30MHz~1GHz)	±2.64dB
5	All emissions, radiated(1GHz~6GHz)	±2.40dB
6	All emissions, radiated(＞6GHz)	±2.52dB
7	Temperature	±0.5°C
8	Humidity	±2%
9	All emissions, radiated(9KHz~30MHz)	±6dB

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	10.5-inch 2-in-1 tablet
Trade Mark	Visionsky
FCC ID	2AZQY-G105
Model No.	G105
Family Model	N/A
Model Difference	N/A
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20); 2422-2452MHz for 802.11n(HT40);
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n;
Number of Channels	11 channels for 802.11b/g/11n(HT20); 7 channels for 802.11n(HT40);
Antenna Type	Main ANT 1 :FPCB antenna AUX ANT 2: FPCB antenna
Antenna Gain	Main ANT 1 :0.3 dBi AUX ANT 2: 0.3 dBi
Power supply	DC 7.6V/3500mAh from battery or DC 12V from Adapter.
Adapter	Model: JZB024-120200UX Input: 100-240V~50-60Hz 0.7A Output: 12V⎓2A
HW Version	IINET-X153-REV10-2021-05-11&INET-P15J-CARO-REV10-2018-12-14
SW Version	iNet.X153.2104040.002.bin
Firmware version	X153_2104040_V010301.BIN

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Revision History

Report No.	Version	Description	Issued Date
S21070801401003	Rev.01	Initial issue of report	Aug 28, 2021

5 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.
The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20): MCS0; 802.11n (HT40): MCS0) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n (HT20/HT40):

Channel	Frequency(MHz)
1	2412
2	2417
…	…
5	2432
6	2437
…	…
10	2457
11	2462

Note: fc=2412MHz+(k-1)×5MHz k=1 to 11
EUT built-in battery-powered, the battery is fully-charged.

EUT has two antennas, and different modes support different transmit mode what describe as Following form:

Mode	Tx/Rx
802.11b/g/n	1TX, 1RX

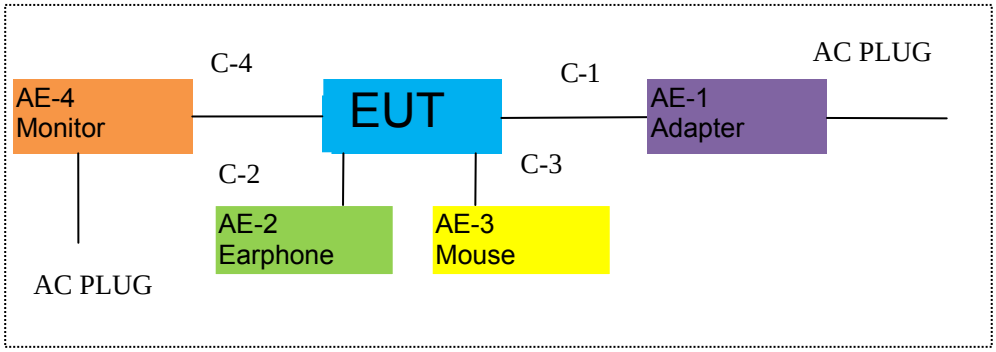
Test Mode:

Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
Maximum Conducted Output Power	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20	MCS0	1/6/11	1/2
	11n HT40	MCS0	3/6/9	1/2
Power Spectral Density				
	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20	MCS0	1/6/11	1/2
	11n HT40	MCS0	3/6/9	1/2
6dB Spectrum Bandwidth				
	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20	MCS0	1/6/11	1/2
	11n HT40	MCS0	3/6/9	1/2
Radiated Emissions Below 1GHz	Normal Link	-	-	-
Radiated Emissions Above 1GHz				
	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20	MCS0	1/6/11	1/2
	11n HT40	MCS0	3/6/9	1/2
Band Edge Emissions				
	11b/CCK	1 Mbps	1/6/11	1/2
	11g/BPSK	6 Mbps	1/6/11	1/2
	11n HT20	MCS0	1/6/11	1/2
	11n HT40	MCS0	3/6/9	1/2

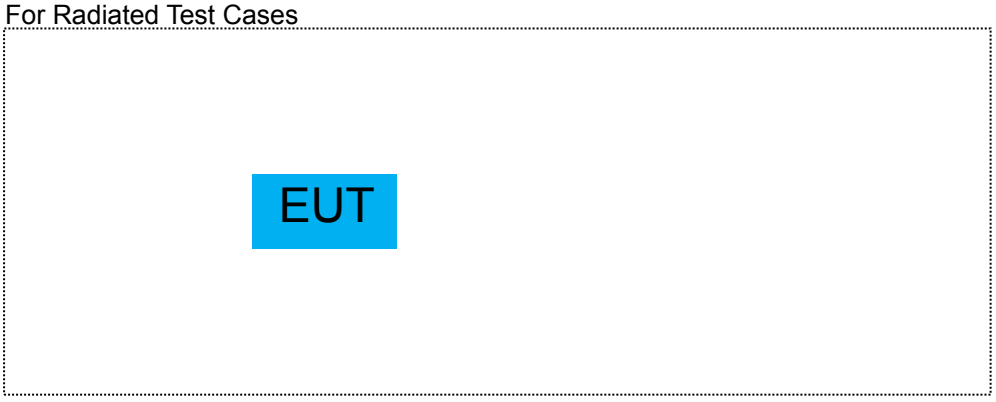
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

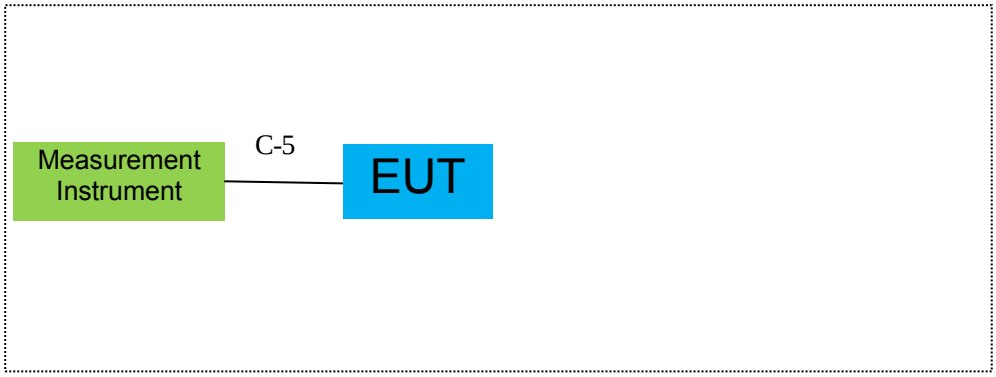
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note:The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

6.2 SUPPORT EQUIPMENT

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Adapter	JZB024-120200UX	N/A	Peripherals
AE-2	Earphone	N/A	N/A	Peripherals
AE-3	Mouse	N/A	N/A	Peripherals
AE-4	Monitor	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	1.2m
C-2	Earphone Cable	NO	NO	1.2m
C-3	Mouse Cable	NO	NO	1.2m
C-4	HDMI Cable	NO	NO	1.0m
C-5	RF Cable	YES	NO	0.1m

Notes:

(1) The support equipment was authorized by Declaration of Confirmation.
(2) For detachable type I/O cable should be specified the length in cm in『Length』column.
(3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

6.3 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Aglient	E4407B	MY45108040	2021.04.27	2022.04.26	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2021.07.01	2022.06.30	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2021.07.01	2022.06.30	1 year
4	Test Receiver	R&S	ESPI7	101318	2021.04.27	2022.04.26	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2021.03.29	2022.03.28	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2020.05.11	2023.05.10	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2021.03.29	2022.03.28	1 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2020.11.19	2021.11.18	1 year
9	Amplifier	EMC	EMC051835SE	980246	2021.07.01	2022.06.30	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519 B	055	2020.11.19	2021.11.18	1 year
11	Power Meter	DARE	RPR3006W	15I00041SNO84	2021.07.01	2022.06.30	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2019.08.06	2022.08.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2019.08.06	2022.08.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2019.06.28	2022.06.27	3 year
15	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2019.08.06	2022.08.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2021.07.01	2022.06.30	1 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:
We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2021.04.27	2022.04.26	1 year
2	LISN	R&S	ENV216	101313	2021.04.27	2022.04.26	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2021.04.27	2022.04.26	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2020.05.11	2023.05.10	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2020.05.11	2023.05.10	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2020.05.11	2023.05.10	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2020.05.11	2023.05.10	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

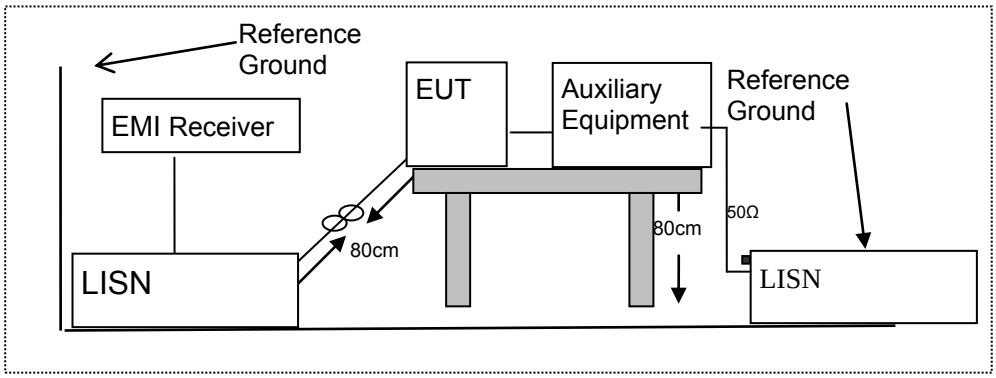
Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. *Decreases with the logarithm of the frequency
2. The lower limit shall apply at the transition frequencies
3. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

7.1.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

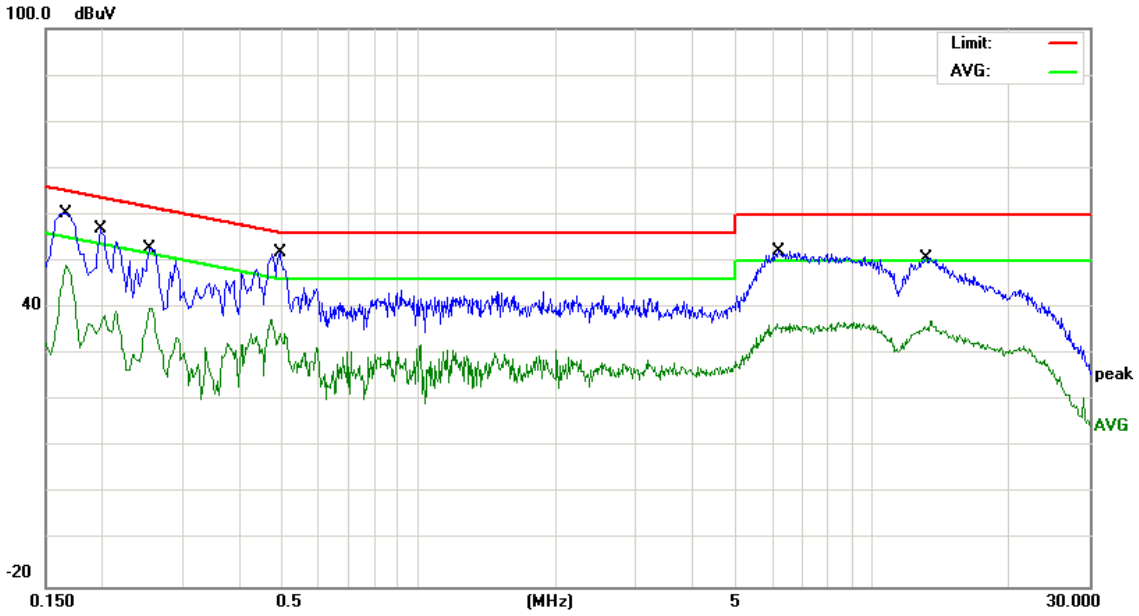
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

7.1.6 Test Results

EUT：	10.5-inch 2-in-1 tablet	Model Name ：	G105
Temperature：	22 ℃	Relative Humidity：	57%
Pressure：	1010hPa	Phase :	L
Test Voltage ：	DC 12V from Adapter AC 120V/60Hz	Test Mode：	Normal Link

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1660	50.65	9.70	60.35	65.15	-4.80	QP
0.1660	41.52	9.70	51.22	55.15	-3.93	AVG
0.1980	47.46	9.63	57.09	63.69	-6.60	QP
0.1980	39.70	9.63	49.33	53.69	-4.36	AVG
0.2540	43.25	9.63	52.88	61.62	-8.74	QP
0.2540	35.51	9.63	45.14	51.62	-6.48	AVG
0.4979	40.19	9.64	49.83	56.03	-6.20	QP
0.4979	31.39	9.64	41.03	46.03	-5.00	AVG
6.2138	42.43	9.69	52.12	60.00	-7.88	QP
6.2138	32.89	9.69	42.58	50.00	-7.42	AVG
13.1098	40.98	9.78	50.76	60.00	-9.24	QP
13.1098	32.58	9.78	42.36	50.00	-7.64	AVG

Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

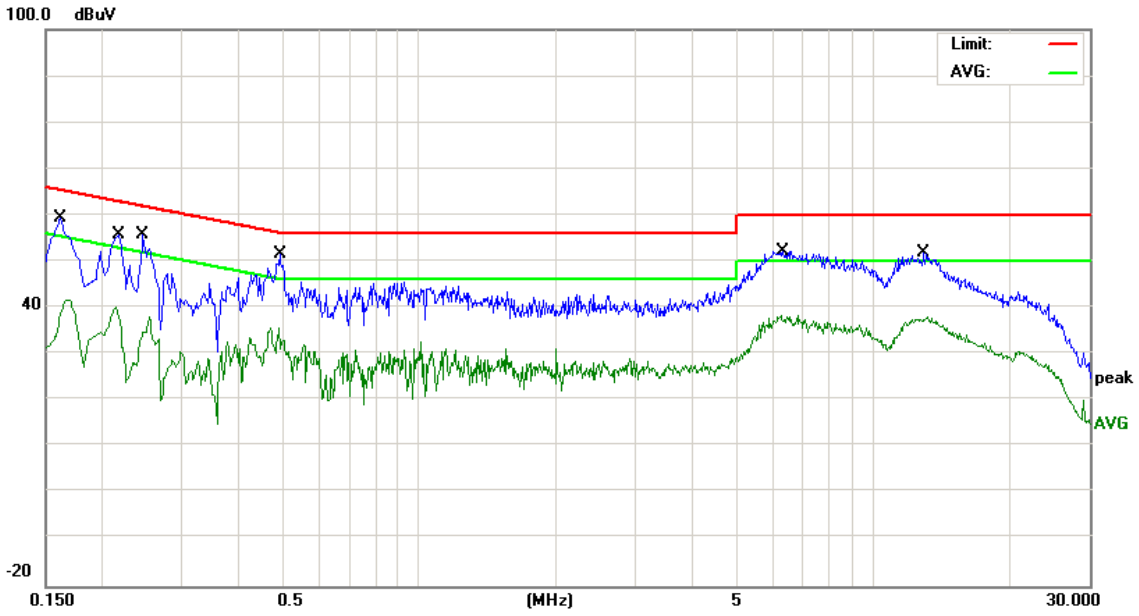


EUT：	10.5-inch 2-in-1 tablet	Model Name ：	G105
Temperature：	22℃	Relative Humidity：	57%
Pressure：	1010hPa	Phase :	N
Test Voltage ：	DC 12V from Adapter AC 120V/60Hz	Test Mode：	Normal Link

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	49.60	9.63	59.23	65.36	-6.13	QP
0.1620	41.59	9.63	51.22	55.36	-4.14	AVG
0.2179	46.23	9.64	55.87	62.89	-7.02	QP
0.2179	37.38	9.64	47.02	52.89	-5.87	AVG
0.2459	45.96	9.65	55.61	61.89	-6.28	QP
0.2459	36.04	9.65	45.69	51.89	-6.20	AVG
0.4939	41.66	9.74	51.40	56.10	-4.70	QP
0.4939	32.84	9.74	42.58	46.10	-3.52	AVG
6.3498	42.38	9.79	52.17	60.00	-7.83	QP
6.3498	33.90	9.79	43.69	50.00	-6.31	AVG
12.9219	41.99	9.76	51.75	60.00	-8.25	QP
12.9219	32.26	9.76	42.02	50.00	-7.98	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d) and 15.209 and ANSI C63.10-2013

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009~0.490	2400/F(KHz)	20 log (uV/m)	300
0.490~1.705	24000/F(KHz)	20 log (uV/m)	30
1.705~30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

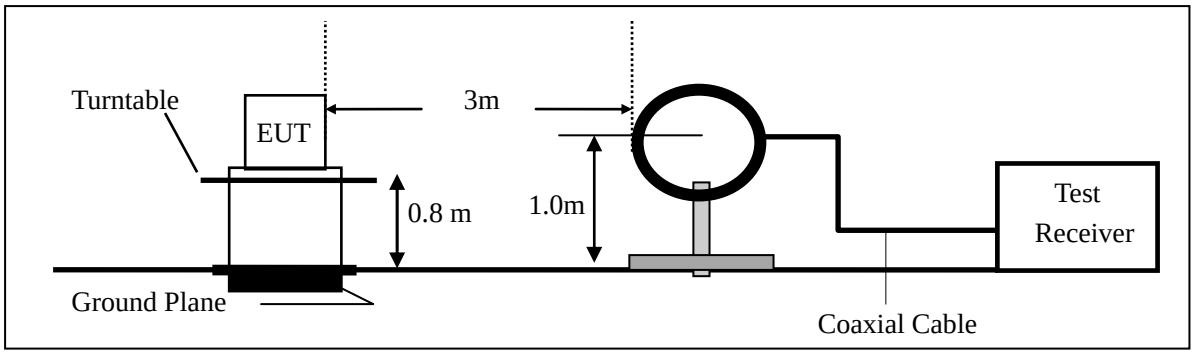
Remark :1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. For Frequency 9kHz~30MHz:
Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.
For Frequency above 30MHz:
Distance extrapolation factor =20log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

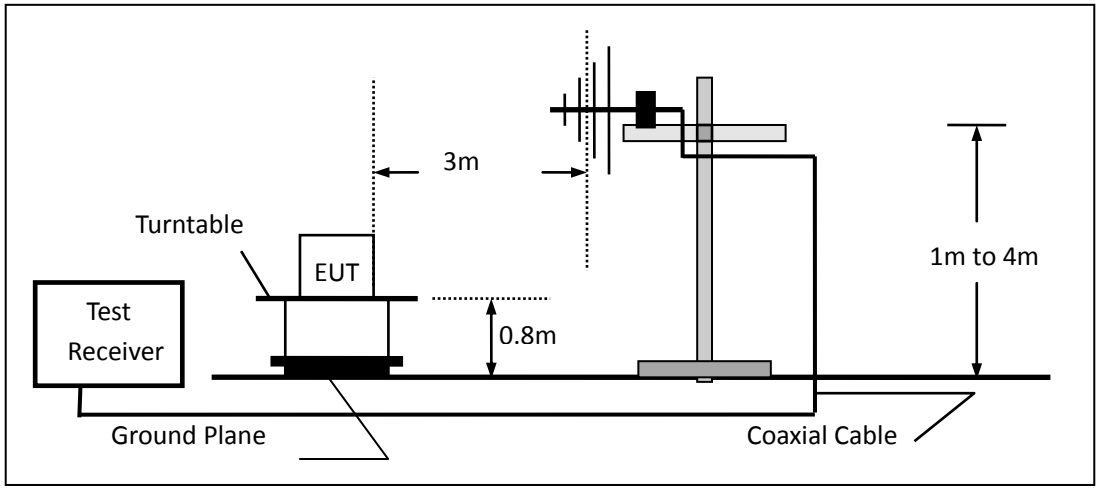
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

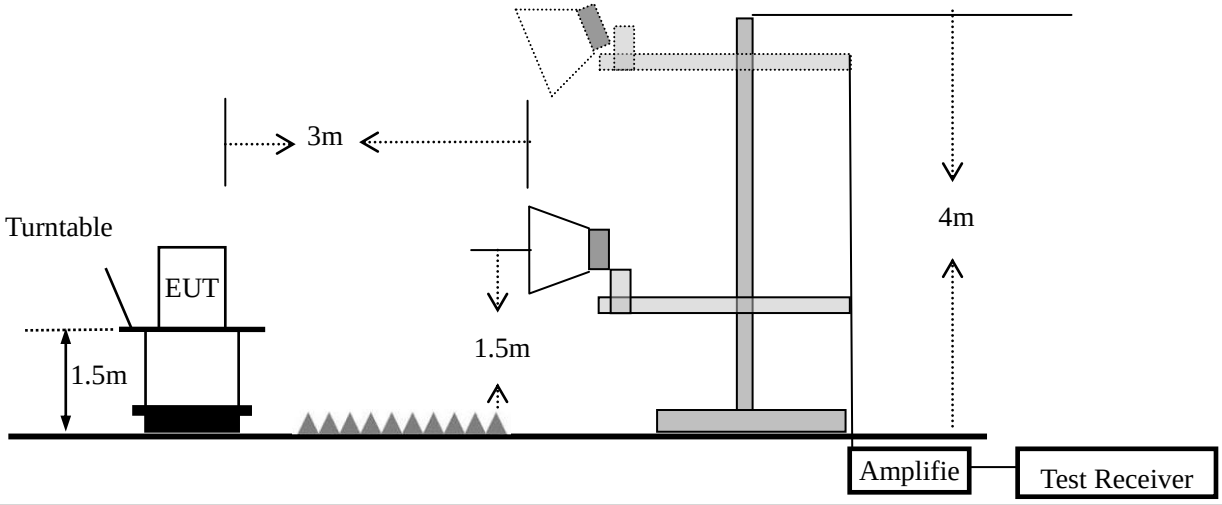
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



7.2.5 Test Procedure

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2013. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 and CAN/CSA-CEI/IEC CISPR 22.
This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.
Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz and frequencies above 1GHz,
b. The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
c. The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
d. For the radiated emission test above 1GHz:
Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
e. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
f. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
g For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested
and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:
For peak measurement:
Set RBW=120 kHz for f < 1 GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;
Set RBW = 1 MHz, VBW= 3MHz for f≥1 GHz
For average measurement:
VBW = 10 Hz, when duty cycle is no less than 98 percent.
VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where RBWCF [dB] =10*lg(100 [kHz]/narrower RBW [kHz]). , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

7.2.6 Test Results

■ Spurious Emission below 30MHz (9KHz to 30MHz)

EUT:	10.5-inch 2-in-1 tablet	Model No.:	G105
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20, HT40)	Test By:	Allen Liu

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

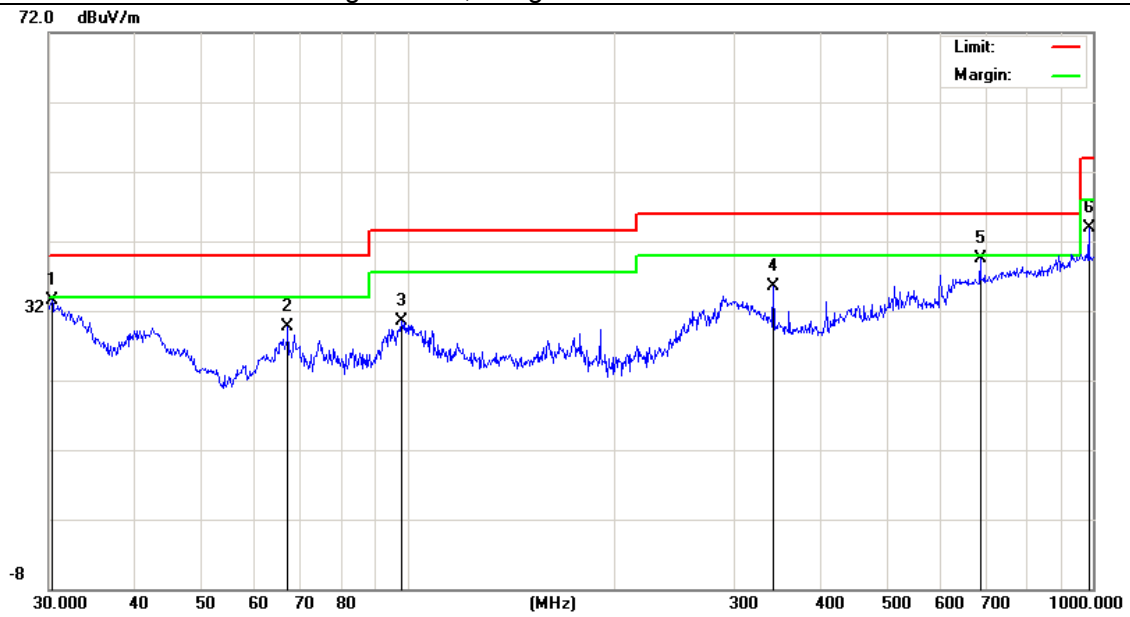
Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

■ Spurious Emission below 1GHz (30MHz to 1GHz)
All the modulation modes have been tested, and the worst result was report as below:

EUT：	10.5-inch 2-in-1 tablet	Model Name ：	G105
Temperature：	25 ℃	Relative Humidity：	55%
Pressure：	1010hPa	Test Mode：	Normal Link
Test Voltage ：	DC 7.6V		

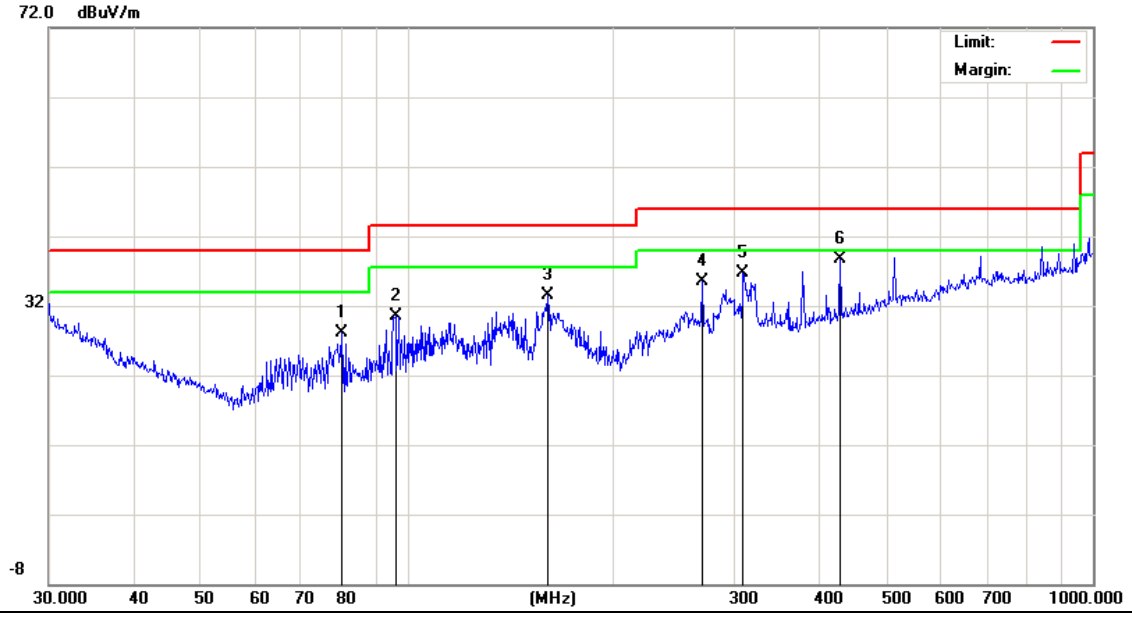
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	30.3170	8.63	24.94	33.57	40.00	-6.43	QP
V	66.9668	17.43	12.22	29.65	40.00	-10.35	QP
V	98.1419	14.02	16.42	30.44	43.50	-13.06	QP
V	341.9786	13.05	22.54	35.59	46.00	-10.41	QP
V	684.7454	9.88	29.66	39.54	46.00	-6.46	QP
V	986.0715	10.22	33.75	43.97	54.00	-10.03	QP

Remark:
Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	80.3619	14.04	14.02	28.06	40.00	-11.94	QP
H	96.0986	14.07	16.37	30.44	43.50	-13.06	QP
H	160.3454	15.30	18.15	33.45	43.50	-10.05	QP
H	269.4284	14.16	21.25	35.41	46.00	-10.59	QP
H	308.9125	15.66	21.01	36.67	46.00	-9.33	QP
H	428.0192	14.02	24.60	38.62	46.00	-7.38	QP

Remark:
Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit



Note: Both ANT1 and ANT2 have been tested, and only the worst ANT1 data is reflected in the report.

■ Spurious Emission Above 1GHz (1GHz to 25GHz)

EUT:	10.5-inch 2-in-1 tablet	Model No.:	G105
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20, HT40)	Test By:	Allen Liu

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Read Level	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)		
Low Channel (2412 MHz)(802.11b)--Above 1G									
4824.265	62.69	5.21	35.59	44.30	59.19	74.00	-14.81	Pk	Vertical
4824.265	40.79	5.21	35.59	44.30	37.29	54.00	-16.71	AV	Vertical
7236.296	59.79	6.48	36.27	44.60	57.94	74.00	-16.06	Pk	Vertical
7236.296	44.05	6.48	36.27	44.60	42.20	54.00	-11.80	AV	Vertical
4824.414	60.63	5.21	35.55	44.30	57.09	74.00	-16.91	Pk	Horizontal
4824.414	42.95	5.21	35.55	44.30	39.41	54.00	-14.59	AV	Horizontal
7236.428	62.82	6.48	36.27	44.52	61.05	74.00	-12.95	Pk	Horizontal
7236.428	46.41	6.48	36.27	44.52	44.64	54.00	-9.36	AV	Horizontal
Middle Channel (2437 MHz)(802.11b)--Above 1G									
4874.312	62.74	5.21	35.66	44.20	59.41	74.00	-14.59	Pk	Vertical
4874.312	42.51	5.21	35.66	44.20	39.18	54.00	-14.82	AV	Vertical
7311.227	59.95	7.10	36.50	44.43	59.12	74.00	-14.88	Pk	Vertical
7311.227	47.51	7.10	36.50	44.43	46.68	54.00	-7.32	AV	Vertical
4874.529	60.44	5.21	35.66	44.20	57.11	74.00	-16.89	Pk	Horizontal
4874.529	48.62	5.21	35.66	44.20	45.29	54.00	-8.71	AV	Horizontal
7311.313	59.17	7.10	36.50	44.43	58.34	74.00	-15.66	Pk	Horizontal
7311.313	41.32	7.10	36.50	44.43	40.49	54.00	-13.51	AV	Horizontal
High Channel (2462 MHz)(802.11b)--Above 1G									
4924.102	66.11	5.21	35.52	44.21	62.63	74.00	-11.37	Pk	Vertical
4924.102	42.36	5.21	35.52	44.21	38.88	54.00	-15.12	AV	Vertical
7386.425	61.11	7.10	36.53	44.60	60.14	74.00	-13.86	Pk	Vertical
7386.425	44.35	7.10	36.53	44.60	43.38	54.00	-10.62	AV	Vertical
4924.066	66.96	5.21	35.52	44.21	63.48	74.00	-10.52	Pk	Horizontal
4924.066	46.69	5.21	35.52	44.21	43.21	54.00	-10.79	AV	Horizontal
7386.198	60.64	7.10	36.53	44.60	59.67	74.00	-14.33	Pk	Horizontal
7386.198	44.50	7.10	36.53	44.60	43.53	54.00	-10.47	AV	Horizontal

Note:

(1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

(3)"802.11b" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

(4) Both ANT1 and ANT2 have been tested, and only the worst ANT1 data is reflected in the report

■ Spurious Emission in Restricted Band 2310MHz -18000MHz

All the modulation modes have been tested, and the worst result was report as below:

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
802.11b									
2310.00	57.94	2.97	27.80	43.80	44.91	74	-29.09	Pk	Horizontal
2310.00	43.71	2.97	27.80	43.80	30.68	54	-23.32	AV	Horizontal
2310.00	58.74	2.97	27.80	43.80	45.71	74	-28.29	Pk	Vertical
2310.00	41.46	2.97	27.80	43.80	28.43	54	-25.57	AV	Vertical
2390.00	57.99	3.14	27.21	43.80	44.54	74	-29.46	Pk	Vertical
2390.00	42.28	3.14	27.21	43.80	28.83	54	-25.17	AV	Vertical
2390.00	56.41	3.14	27.21	43.80	42.96	74	-31.04	Pk	Horizontal
2390.00	41.48	3.14	27.21	43.80	28.03	54	-25.97	AV	Horizontal
2483.50	57.77	3.58	27.70	44.00	45.05	74	-28.95	Pk	Vertical
2483.50	42.66	3.58	27.70	44.00	29.94	54	-24.06	AV	Vertical
2483.50	58.65	3.58	27.70	44.00	45.93	74	-28.07	Pk	Horizontal
2483.50	41.72	3.58	27.70	44.00	29.00	54	-25.00	AV	Horizontal
802.11g									
2310.00	58.74	2.97	27.80	43.80	45.71	74	-28.29	Pk	Horizontal
2310.00	44.08	2.97	27.80	43.80	31.05	54	-22.95	AV	Horizontal
2310.00	56.54	2.97	27.80	43.80	43.51	74	-30.49	Pk	Vertical
2310.00	42.84	2.97	27.80	43.80	29.81	54	-24.19	AV	Vertical
2390.00	57.31	3.14	27.21	43.80	43.86	74	-30.14	Pk	Vertical
2390.00	42.11	3.14	27.21	43.80	28.66	54	-25.34	AV	Vertical
2390.00	57.67	3.14	27.21	43.80	44.22	74	-29.78	Pk	Horizontal
2390.00	43.75	3.14	27.21	43.80	30.30	54	-23.70	AV	Horizontal
2483.50	58.80	3.58	27.70	44.00	46.08	74	-27.92	Pk	Vertical
2483.50	43.58	3.58	27.70	44.00	30.86	54	-23.14	AV	Vertical
2483.50	59.24	3.58	27.70	44.00	46.52	74	-27.48	Pk	Horizontal
2483.50	42.54	3.58	27.70	44.00	29.82	54	-24.18	AV	Horizontal
802.11n20									
2310.00	58.25	2.97	27.80	43.80	45.22	74	-28.78	Pk	Horizontal
2310.00	43.56	2.97	27.80	43.80	30.53	54	-23.47	AV	Horizontal
2310.00	59.14	2.97	27.80	43.80	46.11	74	-27.89	Pk	Vertical
2310.00	42.02	2.97	27.80	43.80	28.99	54	-25.01	AV	Vertical
2390.00	57.81	3.14	27.21	43.80	44.36	74	-29.64	Pk	Vertical
2390.00	42.28	3.14	27.21	43.80	28.83	54	-25.17	AV	Vertical
2390.00	56.73	3.14	27.21	43.80	43.28	74	-30.72	Pk	Horizontal
2390.00	42.13	3.14	27.21	43.80	28.68	54	-25.32	AV	Horizontal
2483.50	58.01	3.58	27.70	44.00	45.29	74	-28.71	Pk	Vertical
2483.50	42.57	3.58	27.70	44.00	29.85	54	-24.15	AV	Vertical
2483.50	58.65	3.58	27.70	44.00	45.93	74	-28.07	Pk	Horizontal
2483.50	42.21	3.58	27.70	44.00	29.49	54	-24.51	AV	Horizontal

802.11n40									
2310.00	59.61	2.97	27.80	43.80	46.58	74	-27.42	Pk	Horizontal
2310.00	44.38	2.97	27.80	43.80	31.35	54	-22.65	AV	Horizontal
2310.00	56.67	2.97	27.80	43.80	43.64	74	-30.36	Pk	Vertical
2310.00	42.97	2.97	27.80	43.80	29.94	54	-24.06	AV	Vertical
2390.00	57.61	3.14	27.21	43.80	44.16	74	-29.84	Pk	Vertical
2390.00	42.69	3.14	27.21	43.80	29.24	54	-24.76	AV	Vertical
2390.00	57.89	3.14	27.21	43.80	44.44	74	-29.56	Pk	Horizontal
2390.00	44.00	3.14	27.21	43.80	30.55	54	-23.45	AV	Horizontal
2483.50	58.28	3.58	27.70	44.00	45.56	74	-28.44	Pk	Vertical
2483.50	44.64	3.58	27.70	44.00	31.92	54	-22.08	AV	Vertical
2483.50	58.62	3.58	27.70	44.00	45.90	74	-28.10	Pk	Horizontal
2483.50	42.70	3.58	27.70	44.00	29.98	54	-24.02	AV	Horizontal

Note: Both ANT1 and ANT2 have been tested, and only the worst ANT1 data is reflected in the report.

Spurious Emission in Restricted Bands 3260MHz- 18000MHz

All the modulation modes have been tested, the worst result was report as below:

Frequency	Reading Level	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
3260	60.72	4.04	29.57	44.70	49.63	74	-24.37	Pk	Vertical
3260	56.30	4.04	29.57	44.70	45.21	54	-8.79	AV	Vertical
3260	61.77	4.04	29.57	44.70	50.68	74	-23.32	Pk	Horizontal
3260	56.63	4.04	29.57	44.70	45.54	54	-8.46	AV	Horizontal
3332	64.47	4.26	29.87	44.40	54.20	74	-19.80	Pk	Vertical
3332	53.43	4.26	29.87	44.40	43.16	54	-10.84	AV	Vertical
3332	62.80	4.26	29.87	44.40	52.53	74	-21.47	Pk	Horizontal
3332	52.58	4.26	29.87	44.40	42.31	54	-11.69	AV	Horizontal
17797	43.22	10.99	43.95	43.50	54.66	74	-19.34	Pk	Vertical
17797	32.85	10.99	43.95	43.50	44.29	54	-9.71	AV	Vertical
17788	43.88	11.81	43.69	44.60	54.78	74	-19.22	Pk	Horizontal
17788	32.39	11.81	43.69	44.60	43.29	54	-10.71	AV	Horizontal

“802.11b” mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

Both ANT1 and ANT2 have been tested, and only the worst ANT1 data is reflected in the report.

7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows Subclause 11.8 of ANSI C63.10.
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
Set to the maximum power setting and enable the EUT transmit continuously.
The EUT was operating in controlled its channel.
Use the following spectrum analyzer settings:
Span = the frequency band of operation
RBW = 100KHz
VBW ≥ 3*RBW
Sweep = auto
Detector function = peak
Trace = max hold

7.3.6 Test Results

EUT:	10.5-inch 2-in-1 tablet	Model No.:	G105
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Allen Liu

Test data reference attachment.

7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02 Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

a) A diode detector and an oscilloscope that together have a sufficiently short response time to permit accurate measurements of the ON and OFF times of the transmitted signal.
b) The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:
1) Set the center frequency of the instrument to the center frequency of the transmission.
2) Set RBW ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ RBW. Set detector = peak or average.
4) 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. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if T ≤ 16.7 μs.)
Measure T_{total} and T_{on}
Calculate Duty Cycle = T_{on} / T_{total}

7.4.6 Test Results

EUT:	10.5-inch 2-in-1 tablet	Model No.:	G105
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Allen Liu

Test data reference attachment.

7.5 MAXIMUM OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.2.3.

7.5.2 Conformance Limit

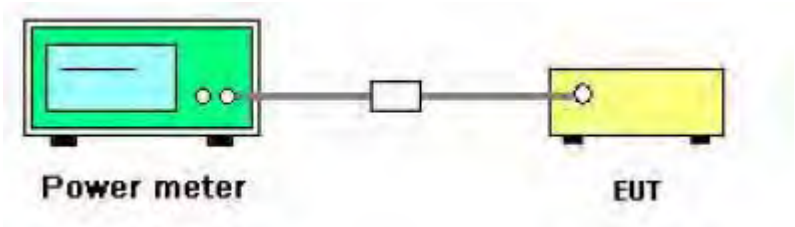
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The following table is the setting of the power meter.

Power meter parameter	Setting
Detector	PK

7.5.4 Test Setup



7.5.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.9.1.3 of ANSI C63.10

7.5.6 EUT operation during Test

The EUT was programmed to be in continuously transmitting mode.

7.5.7 Test Results

EUT:	10.5-inch 2-in-1 tablet	Model No.:	G105
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Allen Liu

Test data reference attachment.

7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.10.2 of ANSI C63.10
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.
a) Set analyzer center frequency to DTS channel center frequency.
b) Set the span to 1.5 times the DTS bandwidth.
c) Set the RBW to: 3 kHz ≤ RBW ≤ 100 kHz.
d) Set the VBW ≥ 3 *RBW.
e) Detector = peak.
f) Sweep time = auto couple.
g) Trace mode = max hold.
h) Allow trace to fully stabilize.
i) Use the peak marker function to determine the maximum amplitude level within the RBW.
j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.6.6 Test Results

EUT:	10.5-inch 2-in-1 tablet	Model No.:	G105
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Allen Liu

Test data reference attachment.

7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows FCC KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.
The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
Set to the maximum power setting and enable the EUT transmit continuously.
The EUT was operating in controlled its channel.
Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	10.5-inch 2-in-1 tablet	Model No.:	G105
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Allen Liu

Test data reference attachment.

7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength, and measure frequency range from 30MHz to 25GHz.

7.8.5 Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

Test data reference attachment.

7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

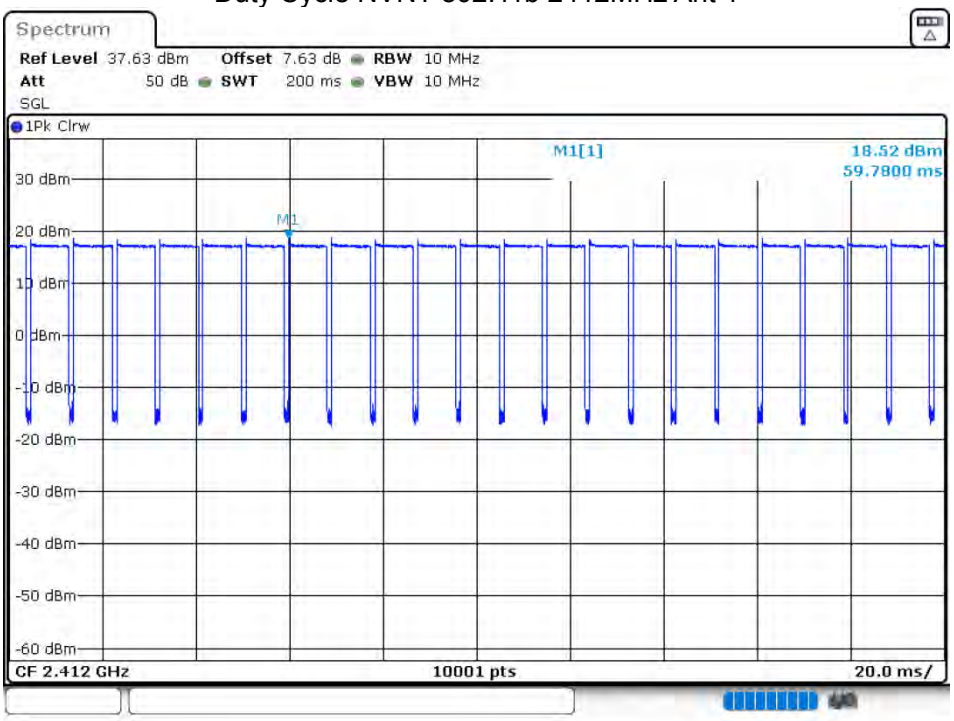
The EUT antenna is permanent attached FPCB Antenna (Gain: 0.3dBi(Main ANT), 0.3dBi(AUX ANT)). It comply with the standard requirement.

8 TEST RESULTS

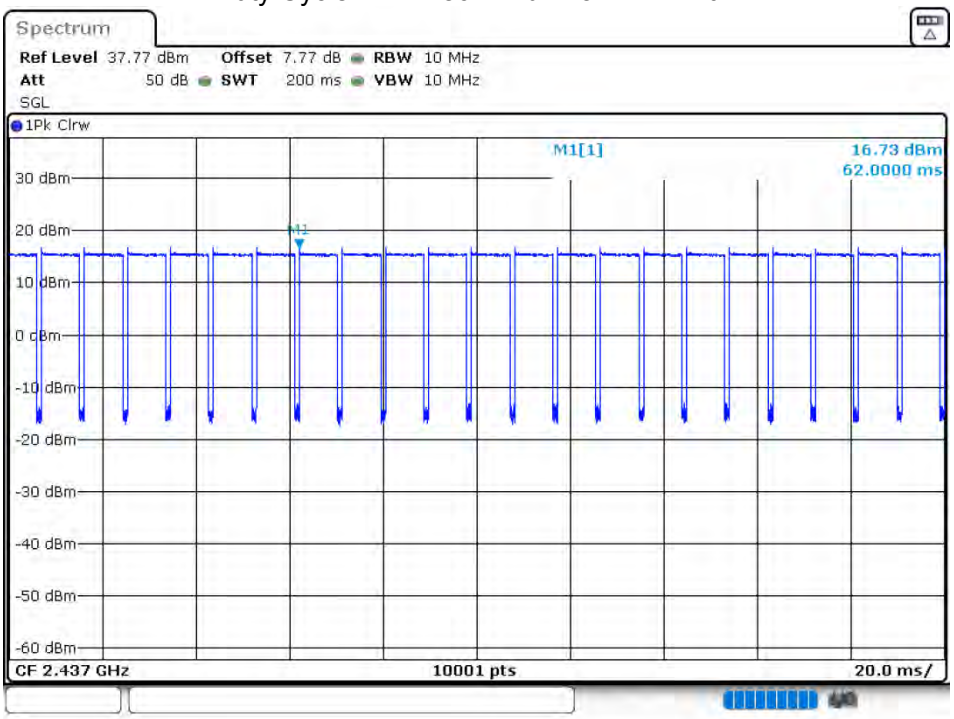
8.1 DUTY CYCLE

Antenna	Condition	Mode	Frequency (MHz)	Duty Cycle (%)	Correction Factor (dB)
Ant 1	NVNT	802.11b	2412	89.19	0.5
Ant 1	NVNT	802.11b	2437	89.16	0.5
Ant 1	NVNT	802.11b	2462	89.33	0.49
Ant 2	NVNT	802.11b	2412	89.18	0.5
Ant 2	NVNT	802.11b	2437	89.19	0.5
Ant 2	NVNT	802.11b	2462	89.16	0.5
Ant 1	NVNT	802.11g	2412	58.04	2.36
Ant 1	NVNT	802.11g	2437	58.22	2.35
Ant 1	NVNT	802.11g	2462	58.23	2.35
Ant 2	NVNT	802.11g	2412	58.22	2.35
Ant 2	NVNT	802.11g	2437	58.13	2.36
Ant 2	NVNT	802.11g	2462	58.23	2.35
Ant 1	NVNT	802.11n(HT20)	2412	56.26	2.5
Ant 1	NVNT	802.11n(HT20)	2437	56.27	2.5
Ant 1	NVNT	802.11n(HT20)	2462	56.34	2.49
Ant 2	NVNT	802.11n(HT20)	2412	56.22	2.5
Ant 2	NVNT	802.11n(HT20)	2437	56.24	2.5
Ant 2	NVNT	802.11n(HT20)	2462	56.25	2.5
Ant 1	NVNT	802.11n(HT40)	2422	39.16	4.07
Ant 1	NVNT	802.11n(HT40)	2437	39.16	4.07
Ant 1	NVNT	802.11n(HT40)	2452	39.21	4.07
Ant 2	NVNT	802.11n(HT40)	2422	39.16	4.07
Ant 2	NVNT	802.11n(HT40)	2437	39.33	4.05
Ant 2	NVNT	802.11n(HT40)	2452	39.15	4.07

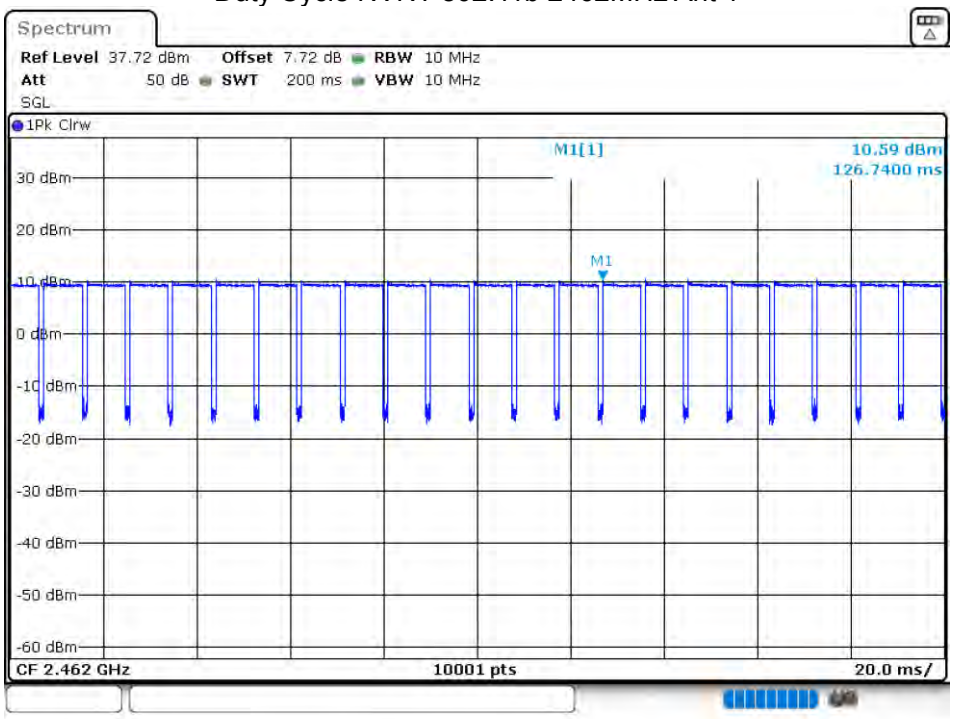
Duty Cycle NVNT 802.11b 2412MHz Ant 1



Duty Cycle NVNT 802.11b 2437MHz Ant 1



Duty Cycle NVNT 802.11b 2462MHz Ant 1



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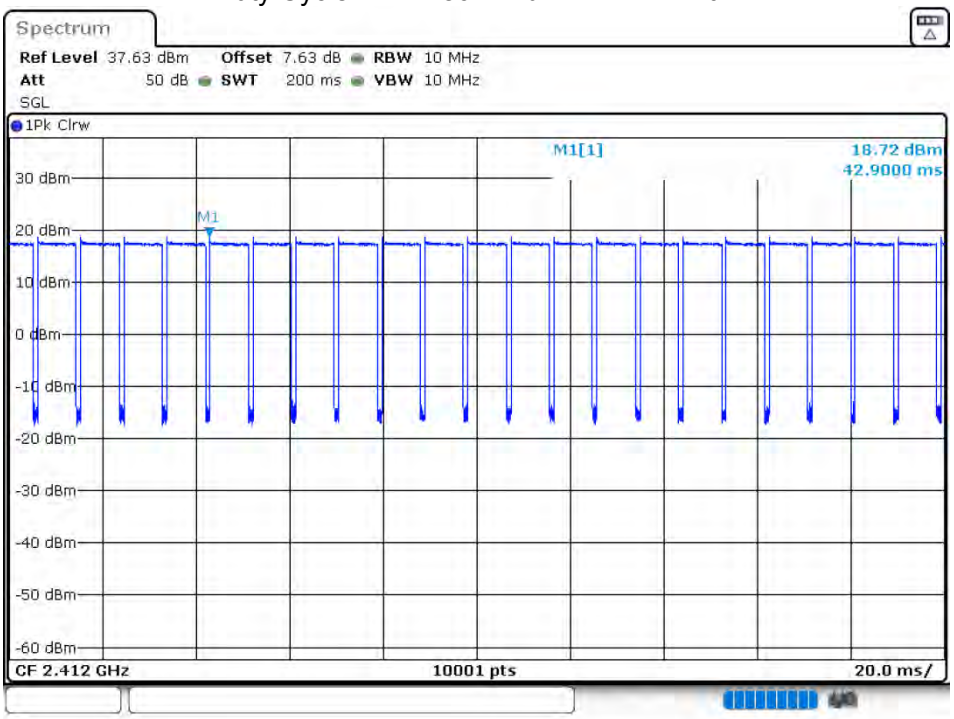

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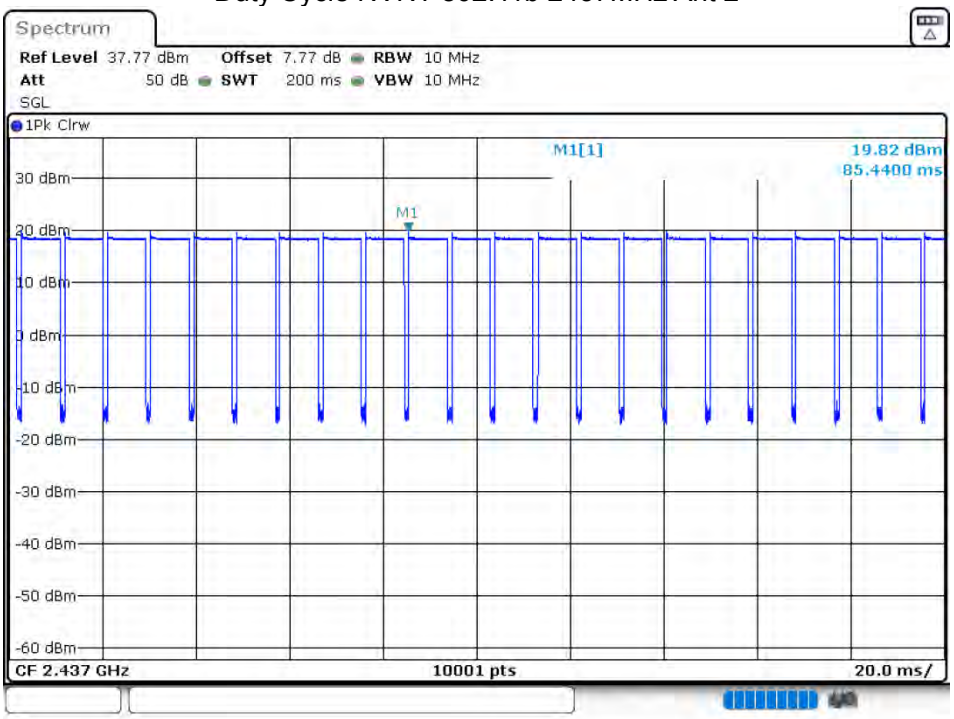

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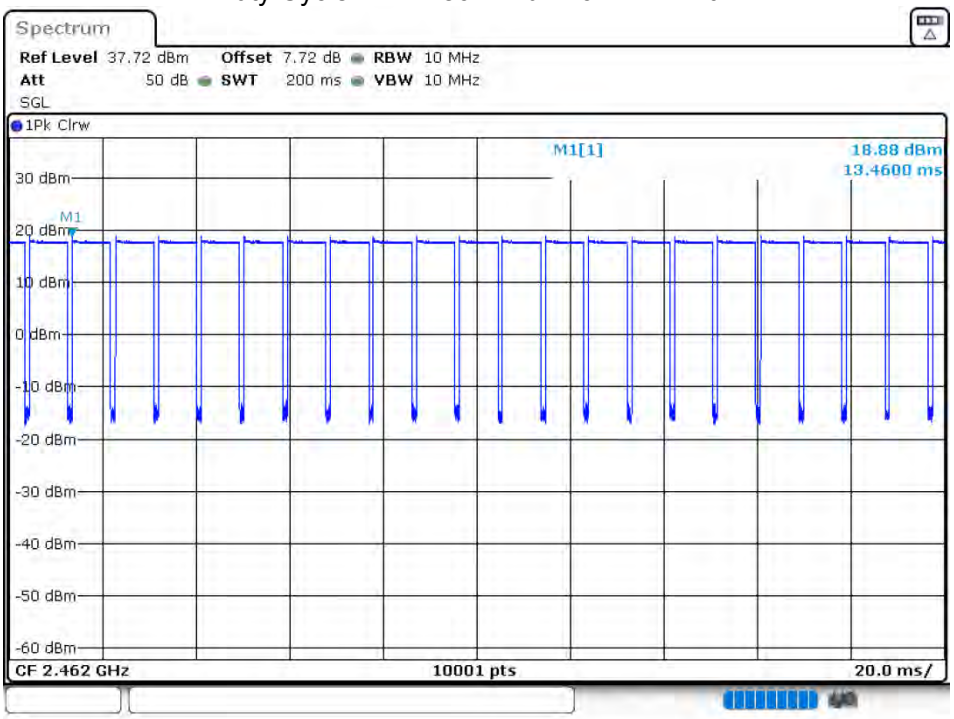
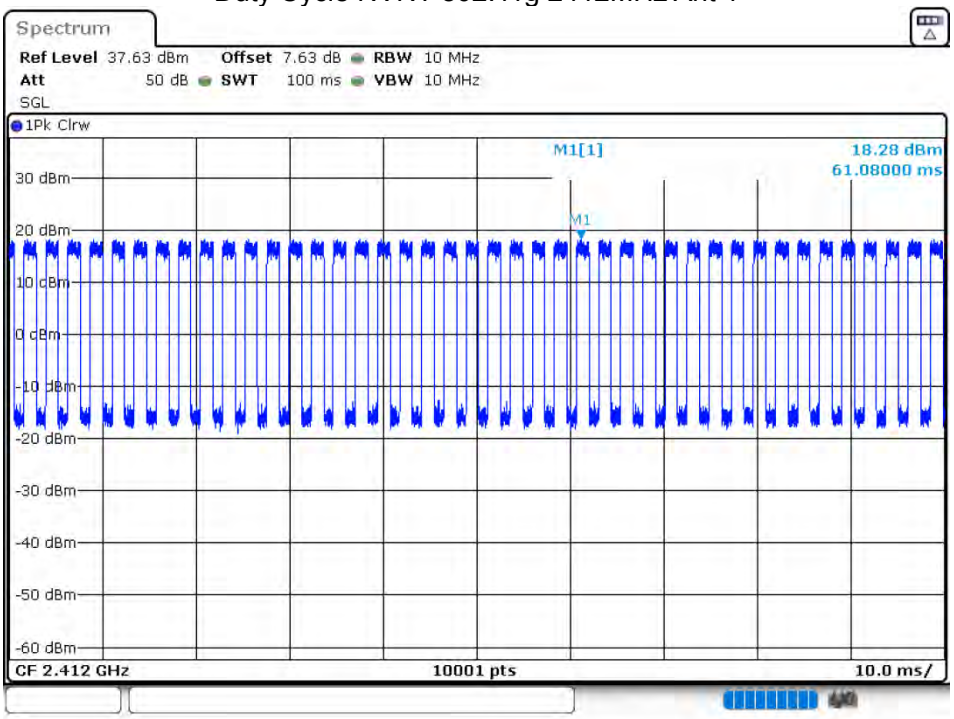


Duty Cycle NVNT 802.11g 2412MHz Ant 1



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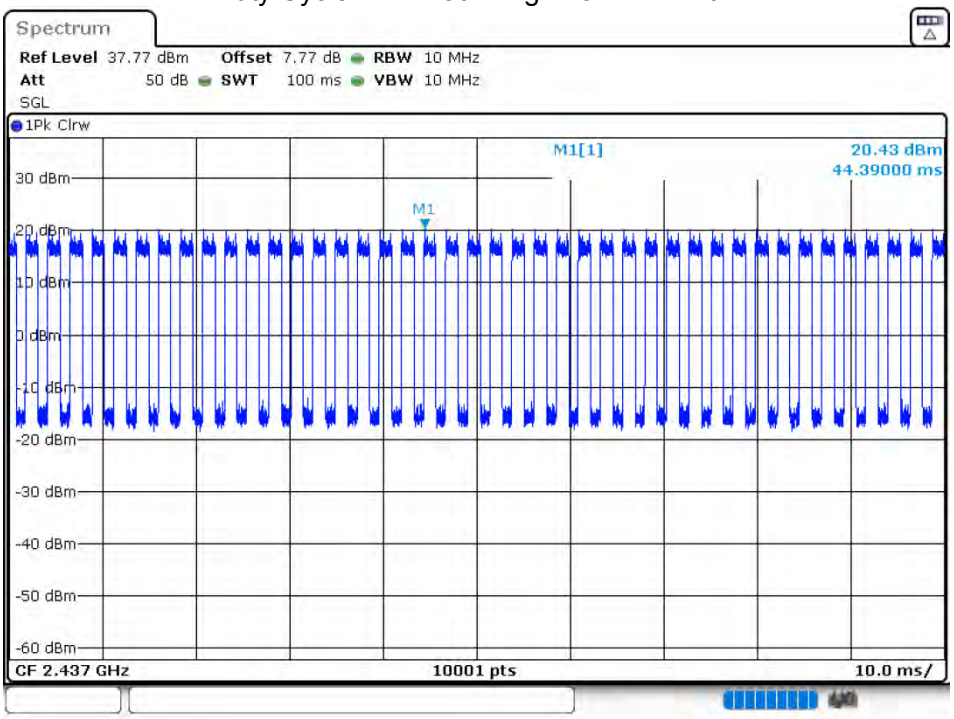

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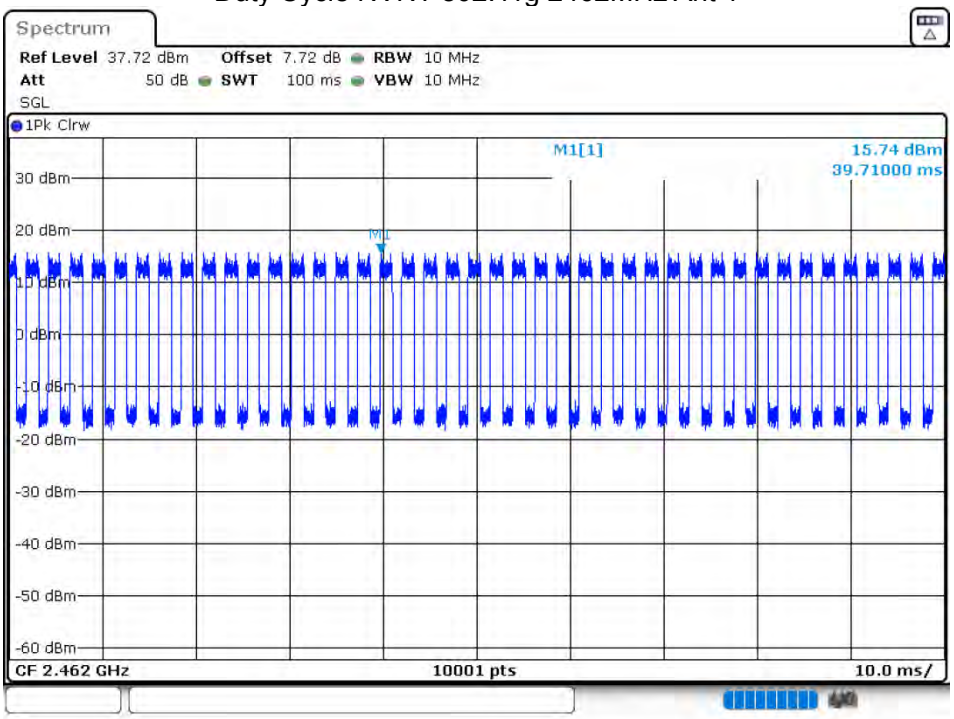

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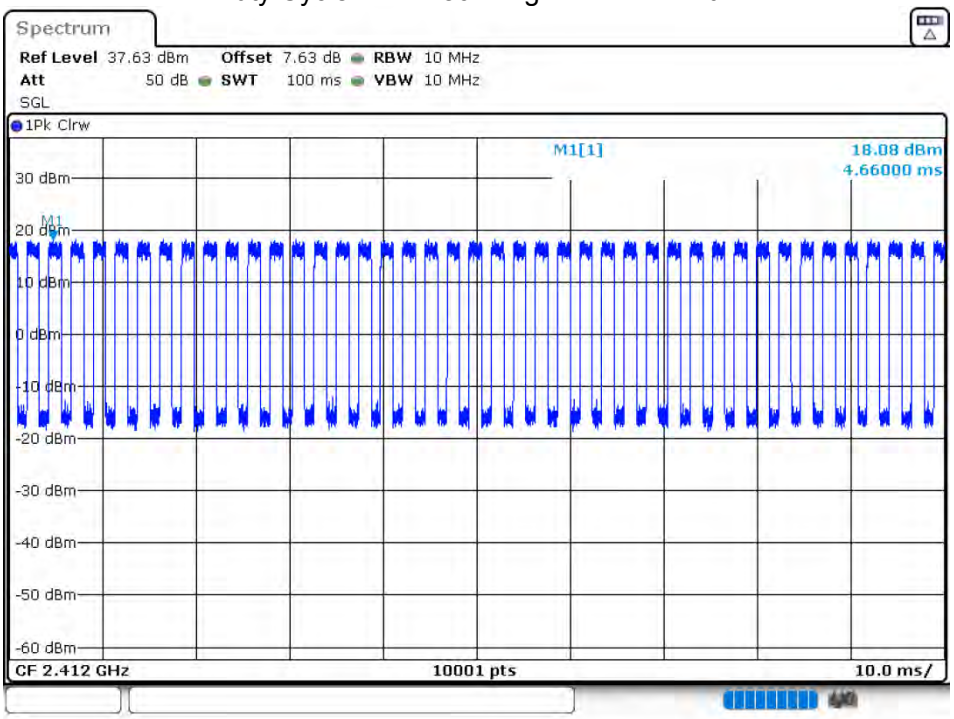

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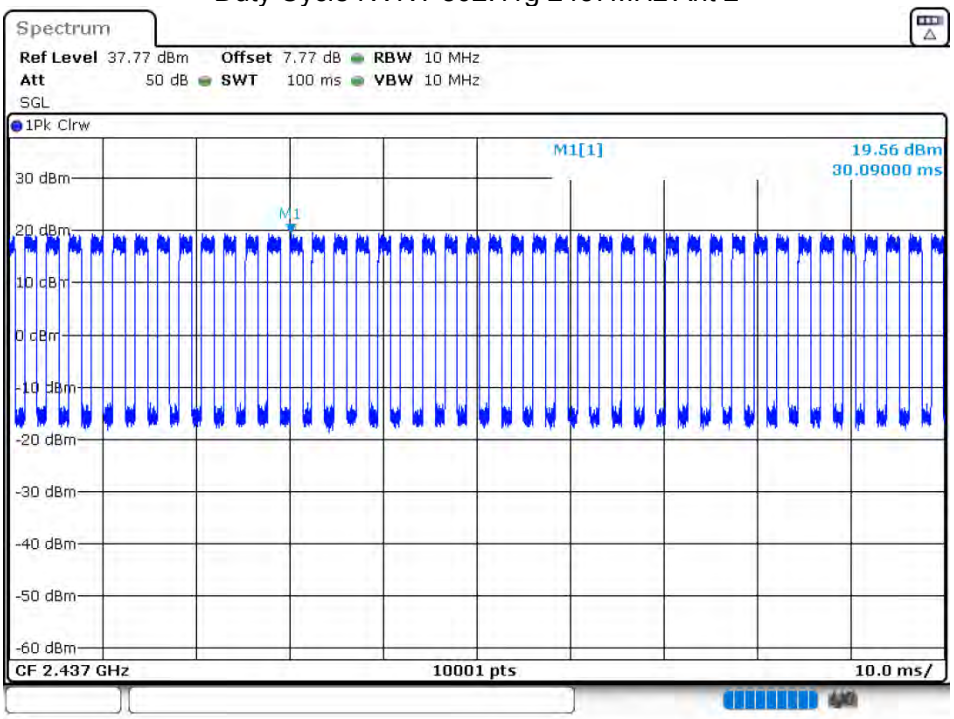

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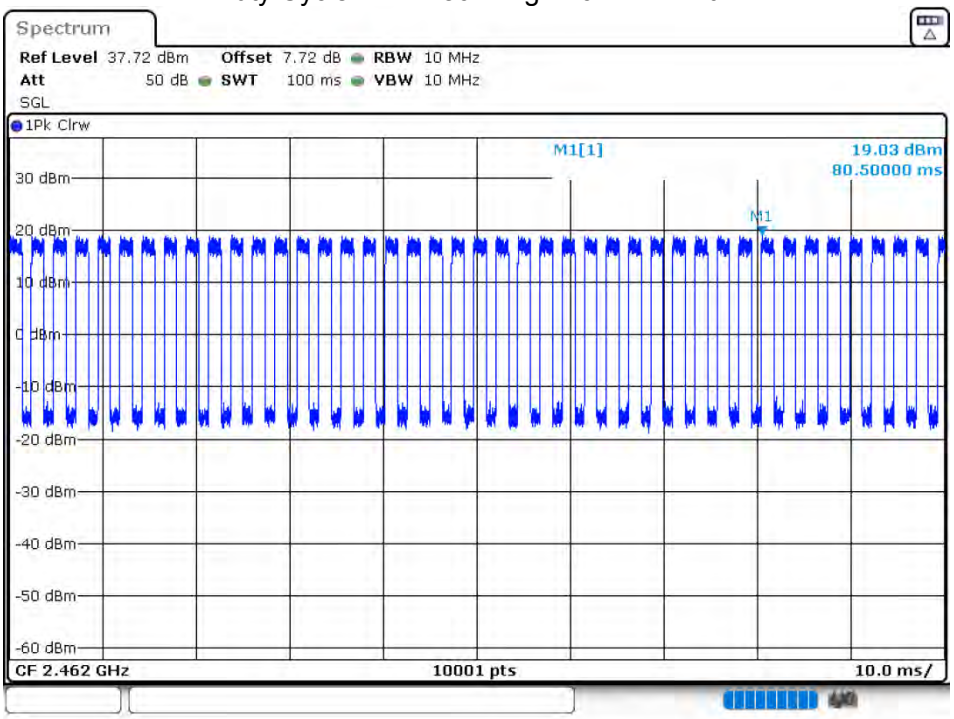
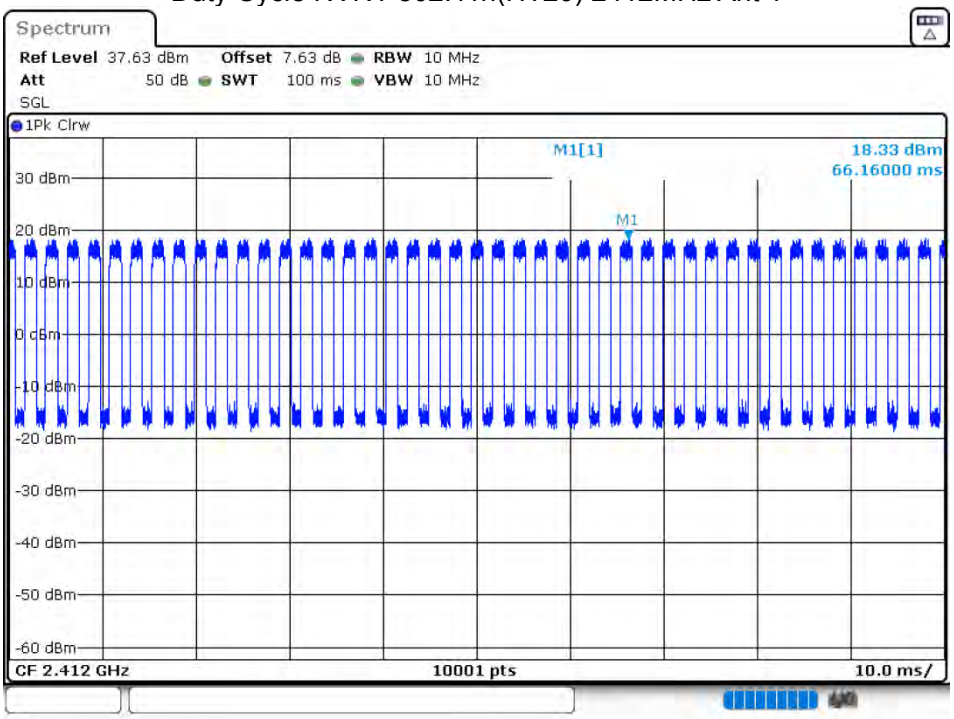


Duty Cycle NVNT 802.11n(HT20) 2412MHz Ant 1



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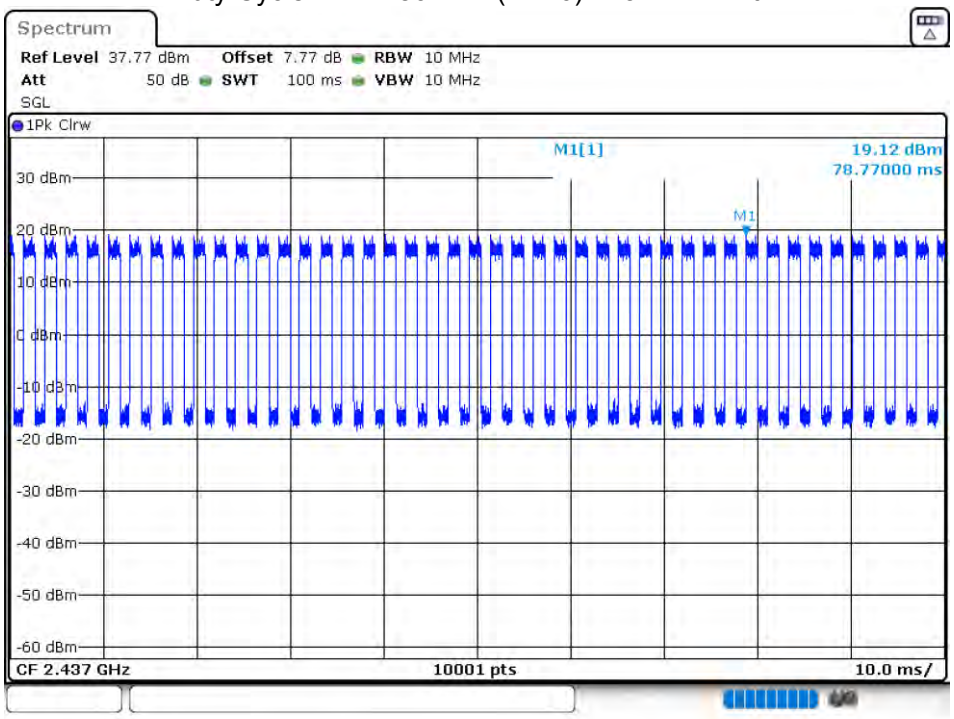

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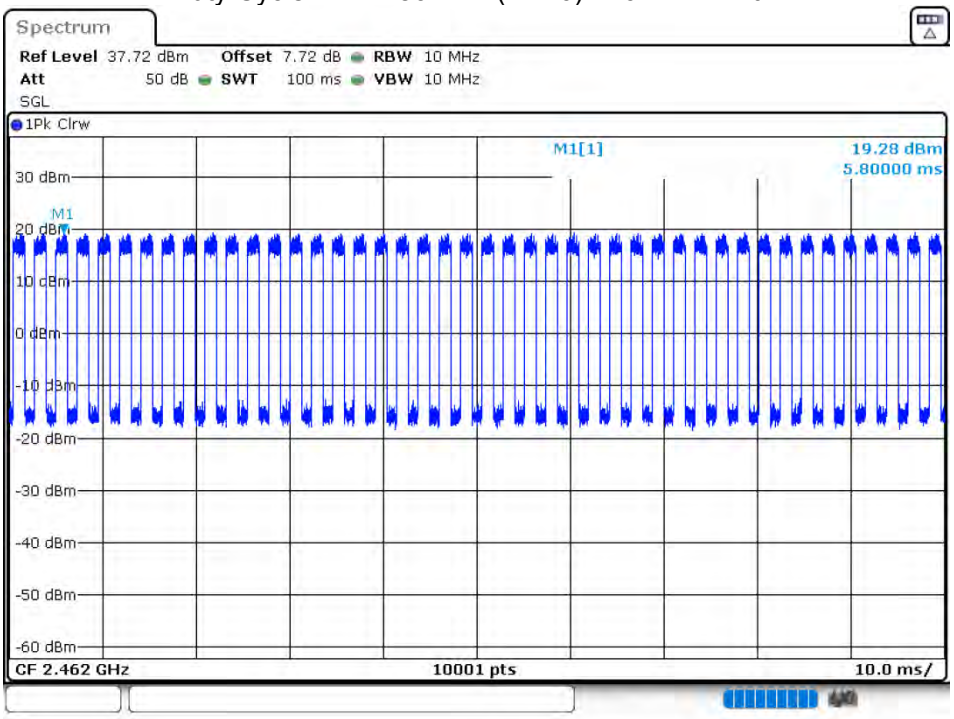

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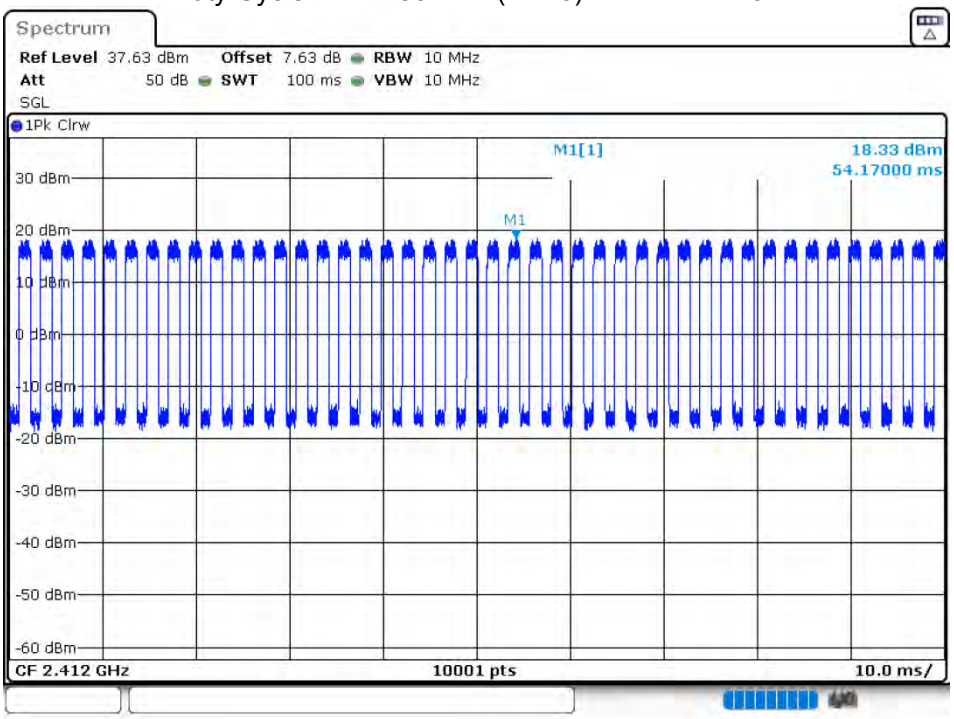

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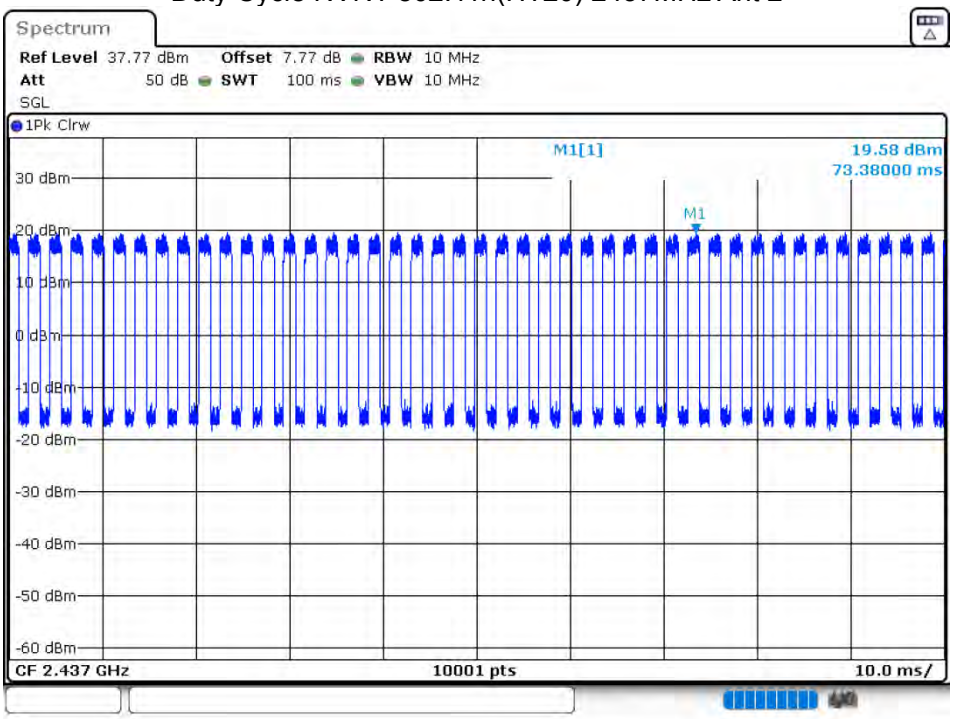

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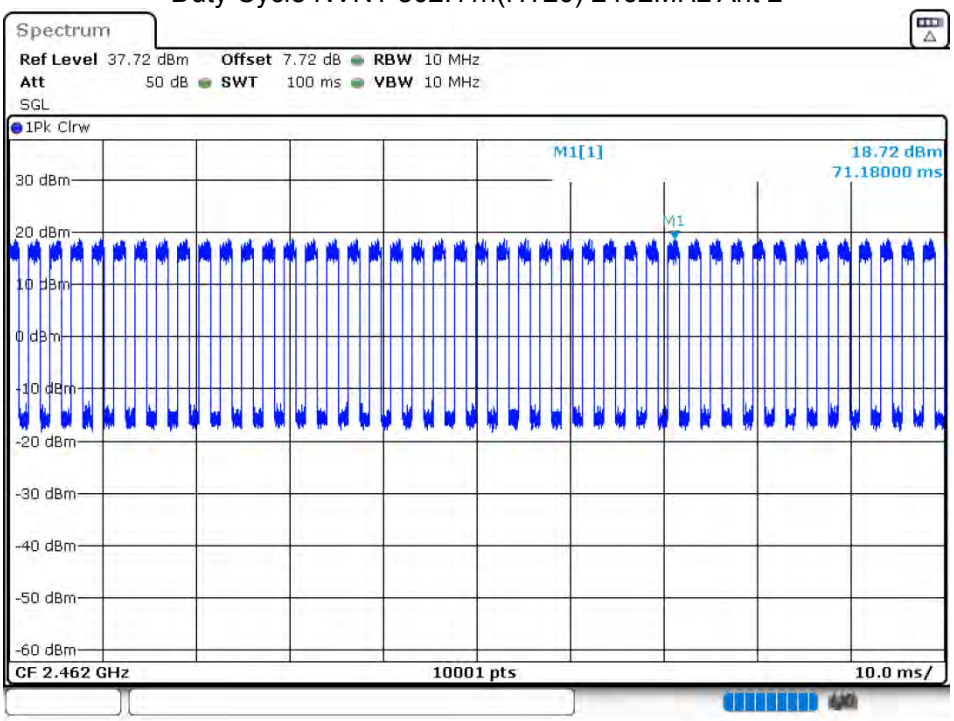
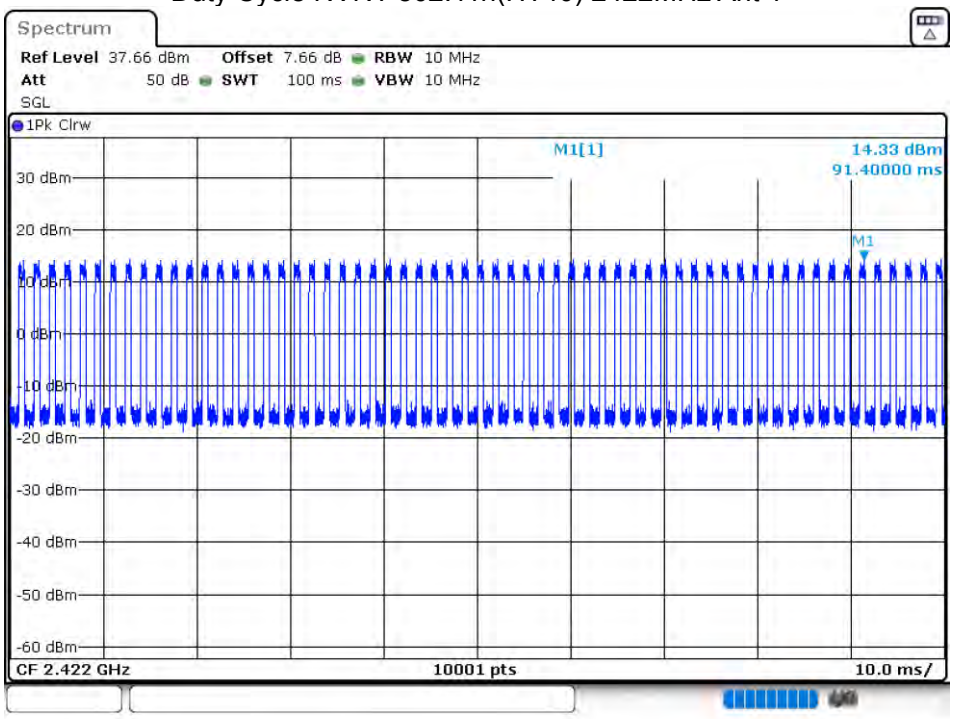


Duty Cycle NVNT 802.11n(HT40) 2422MHz Ant 1



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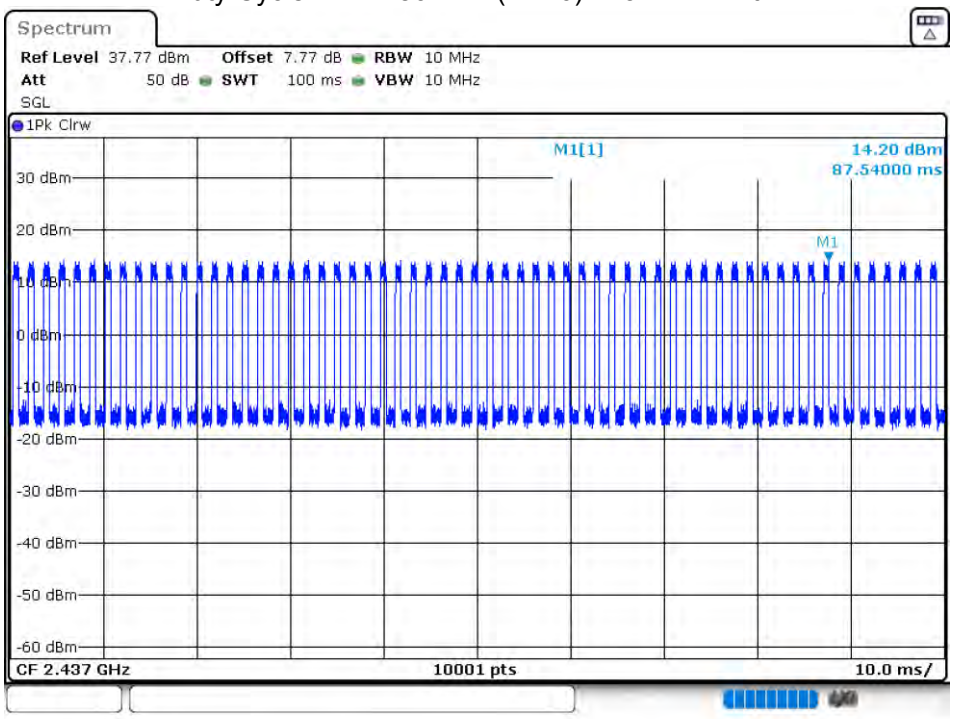
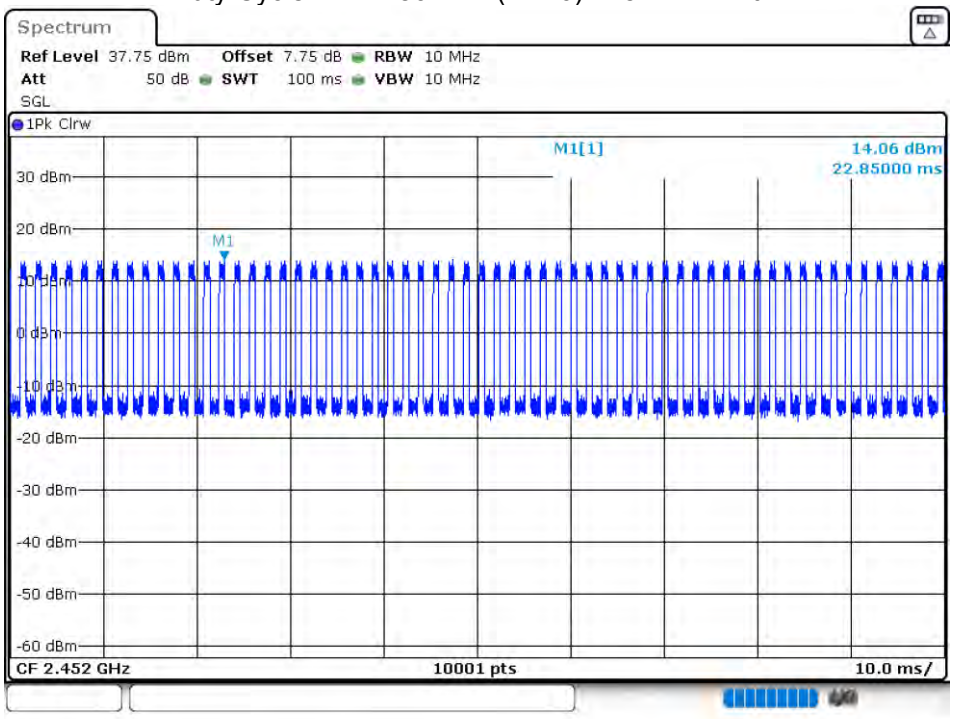
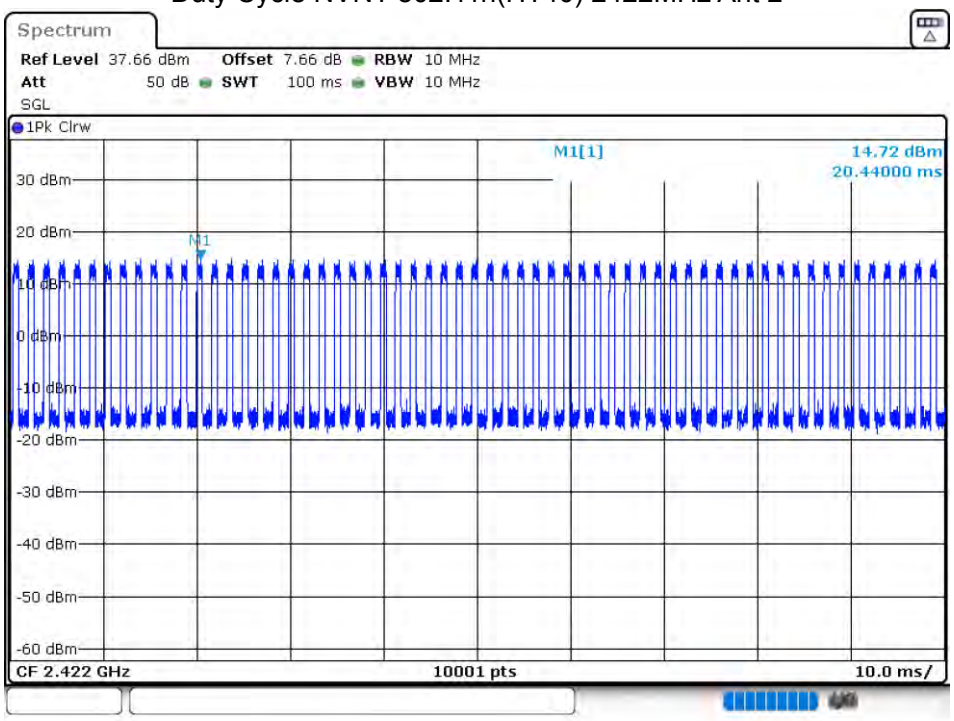


Duty Cycle NVNT 802.11n(HT40) 2452MHz Ant 1



Duty Cycle NVNT 802.11n(HT40) 2422MHz Ant 2



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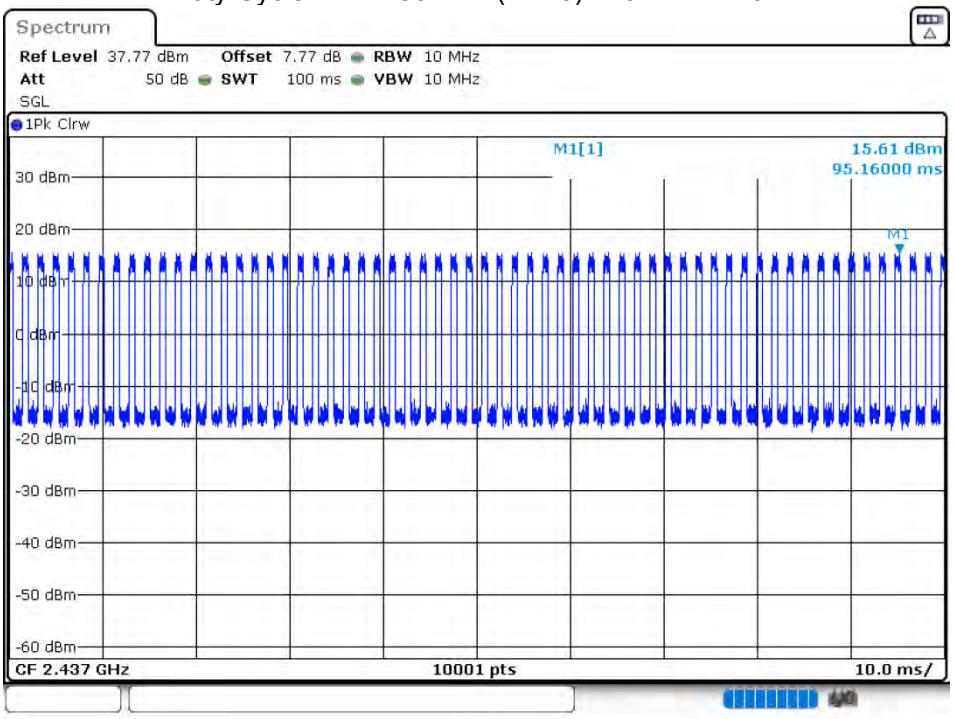
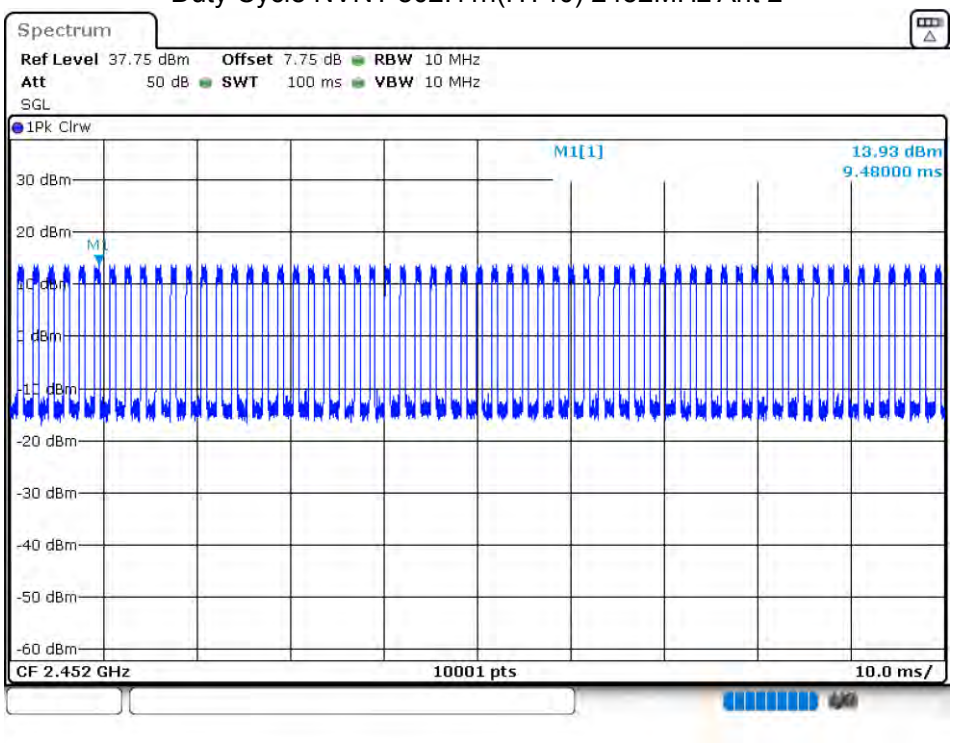


Duty Cycle NVNT 802.11n(HT40) 2452MHz Ant 2



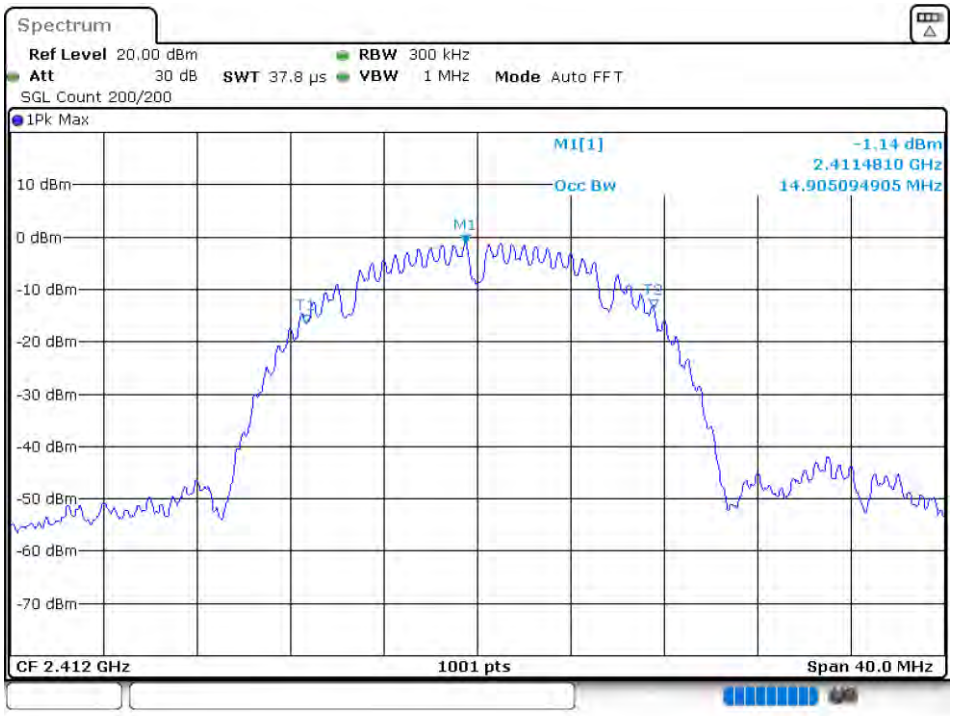
8.2 MAXIMUM CONDUCTED OUTPUT POWER

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	802.11b	2412	Ant 1	14.43	30	Pass
NVNT	802.11b	2437	Ant 1	15.13	30	Pass
NVNT	802.11b	2462	Ant 1	14.66	30	Pass
NVNT	802.11b	2412	Ant 2	14.62	30	Pass
NVNT	802.11b	2437	Ant 2	15.56	30	Pass
NVNT	802.11b	2462	Ant 2	15.09	30	Pass
NVNT	802.11g	2412	Ant 1	10.96	30	Pass
NVNT	802.11g	2437	Ant 1	11.38	30	Pass
NVNT	802.11g	2456	Ant 1	11.25	30	Pass
NVNT	802.11g	2412	Ant 2	10.78	30	Pass
NVNT	802.11g	2437	Ant 2	11.79	30	Pass
NVNT	802.11g	2456	Ant 2	11.51	30	Pass
NVNT	802.11n(HT20)	2412	Ant 1	10.95	30	Pass
NVNT	802.11n(HT20)	2437	Ant 1	11.4	30	Pass
NVNT	802.11n(HT20)	2462	Ant 1	11.71	30	Pass
NVNT	802.11n(HT20)	2412	Ant 2	10.83	30	Pass
NVNT	802.11n(HT20)	2437	Ant 2	11.79	30	Pass
NVNT	802.11n(HT20)	2462	Ant 2	10.58	30	Pass
NVNT	802.11n(HT40)	2422	Ant 1	8.96	30	Pass
NVNT	802.11n(HT40)	2437	Ant 1	8.91	30	Pass
NVNT	802.11n(HT40)	2452	Ant 1	9.46	30	Pass
NVNT	802.11n(HT40)	2422	Ant 2	9.41	30	Pass
NVNT	802.11n(HT40)	2437	Ant 2	10.45	30	Pass
NVNT	802.11n(HT40)	2452	Ant 2	9.43	30	Pass

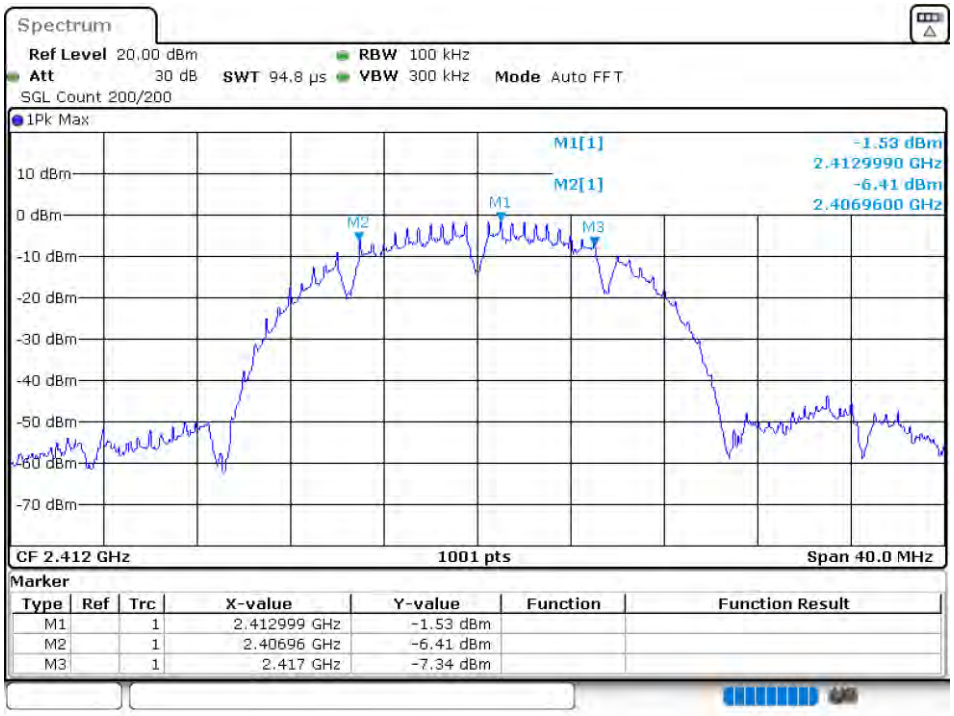
8.3 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	802.11b	2412	Ant 1	14.9051	10.04	0.5	Pass
NVNT	802.11b	2437	Ant 1	14.9051	12.04	0.5	Pass
NVNT	802.11b	2462	Ant 1	14.985	11.08	0.5	Pass
NVNT	802.11b	2412	Ant 2	14.9051	10.08	0.5	Pass
NVNT	802.11b	2437	Ant 2	14.8651	12.04	0.5	Pass
NVNT	802.11b	2462	Ant 2	14.9451	10.04	0.5	Pass
NVNT	802.11g	2412	Ant 1	16.8232	16.04	0.5	Pass
NVNT	802.11g	2437	Ant 1	16.5834	15.68	0.5	Pass
NVNT	802.11g	2462	Ant 1	16.5834	16.36	0.5	Pass
NVNT	802.11g	2412	Ant 2	16.7033	16.08	0.5	Pass
NVNT	802.11g	2437	Ant 2	16.6633	16.36	0.5	Pass
NVNT	802.11g	2462	Ant 2	16.7033	16.36	0.5	Pass
NVNT	802.11n(HT20)	2412	Ant 1	17.7023	15.92	0.5	Pass
NVNT	802.11n(HT20)	2437	Ant 1	17.7023	17.32	0.5	Pass
NVNT	802.11n(HT20)	2462	Ant 1	17.7822	15.92	0.5	Pass
NVNT	802.11n(HT20)	2412	Ant 2	17.6623	16.64	0.5	Pass
NVNT	802.11n(HT20)	2437	Ant 2	17.6224	17.56	0.5	Pass
NVNT	802.11n(HT20)	2462	Ant 2	17.7822	17.56	0.5	Pass
NVNT	802.11n(HT40)	2422	Ant 1	36.1239	33.92	0.5	Pass
NVNT	802.11n(HT40)	2437	Ant 1	36.3636	35.36	0.5	Pass
NVNT	802.11n(HT40)	2452	Ant 1	36.2038	35.52	0.5	Pass
NVNT	802.11n(HT40)	2422	Ant 2	36.044	33.44	0.5	Pass
NVNT	802.11n(HT40)	2437	Ant 2	36.2837	34.96	0.5	Pass
NVNT	802.11n(HT40)	2452	Ant 2	36.3636	35.12	0.5	Pass

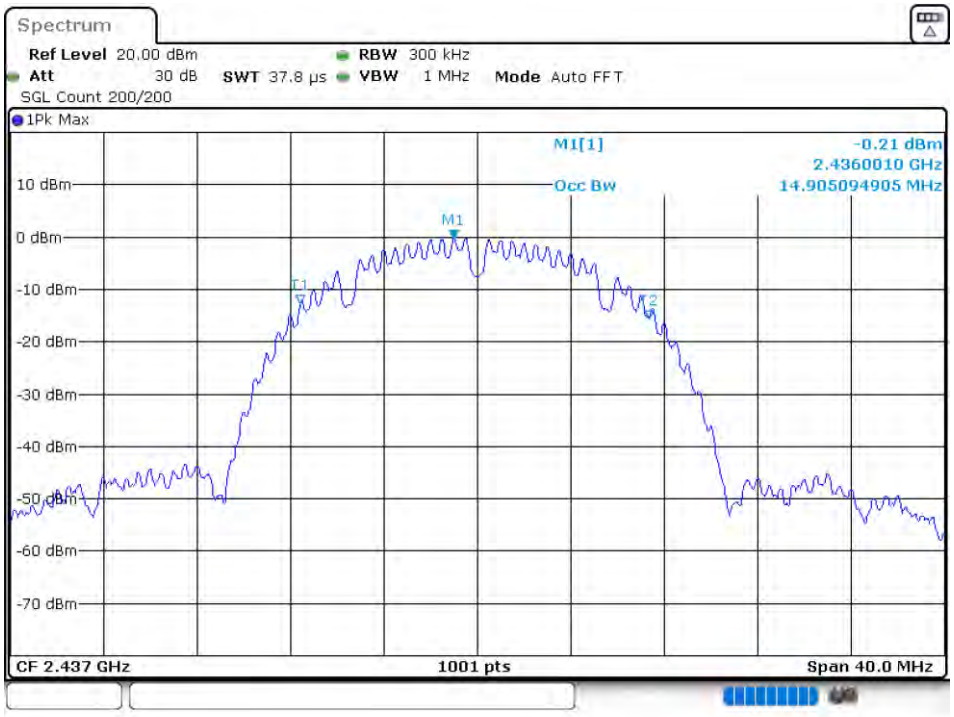
OBW NVNT 802.11b 2412MHz Ant 1



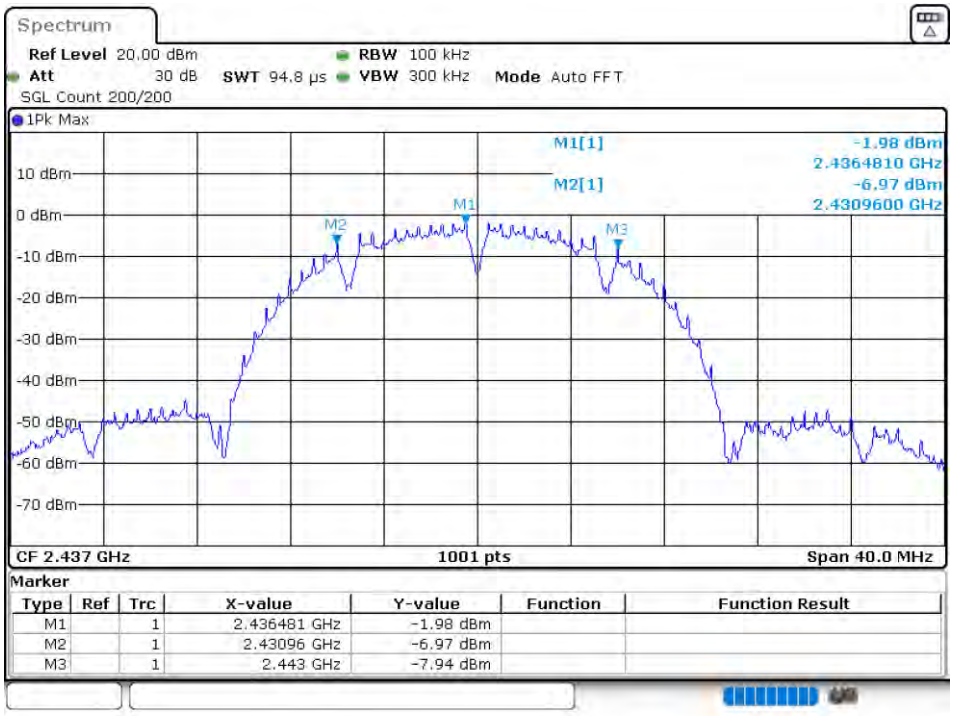
-6 dB BW NVNT 802.11b 2412MHz Ant 1



OBW NVNT 802.11b 2437MHz Ant 1



-6 dB BW NVNT 802.11b 2437MHz Ant 1



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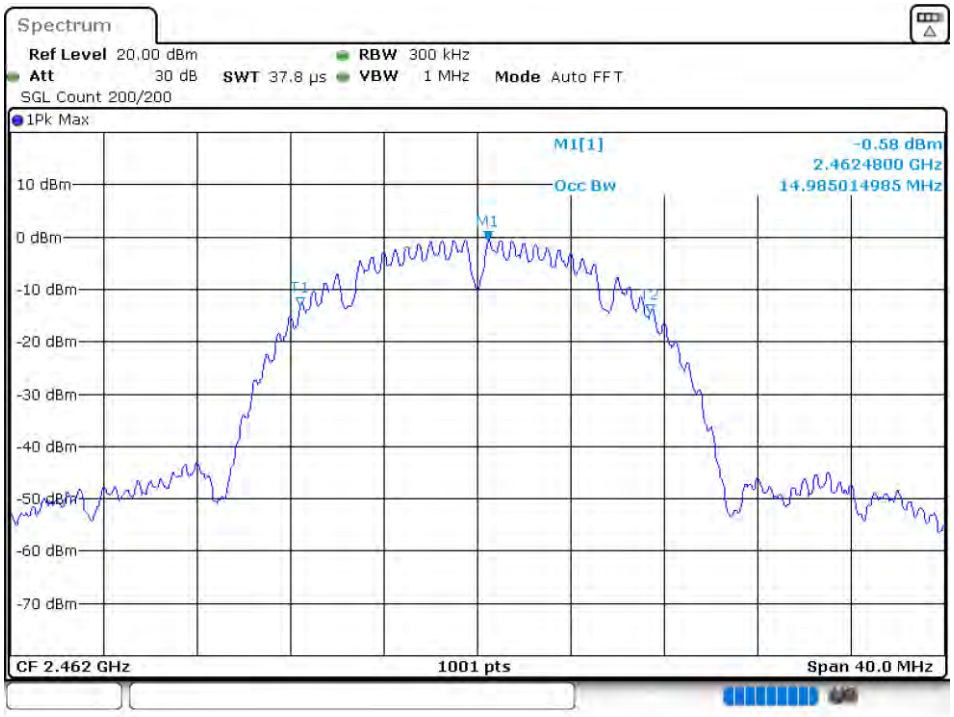
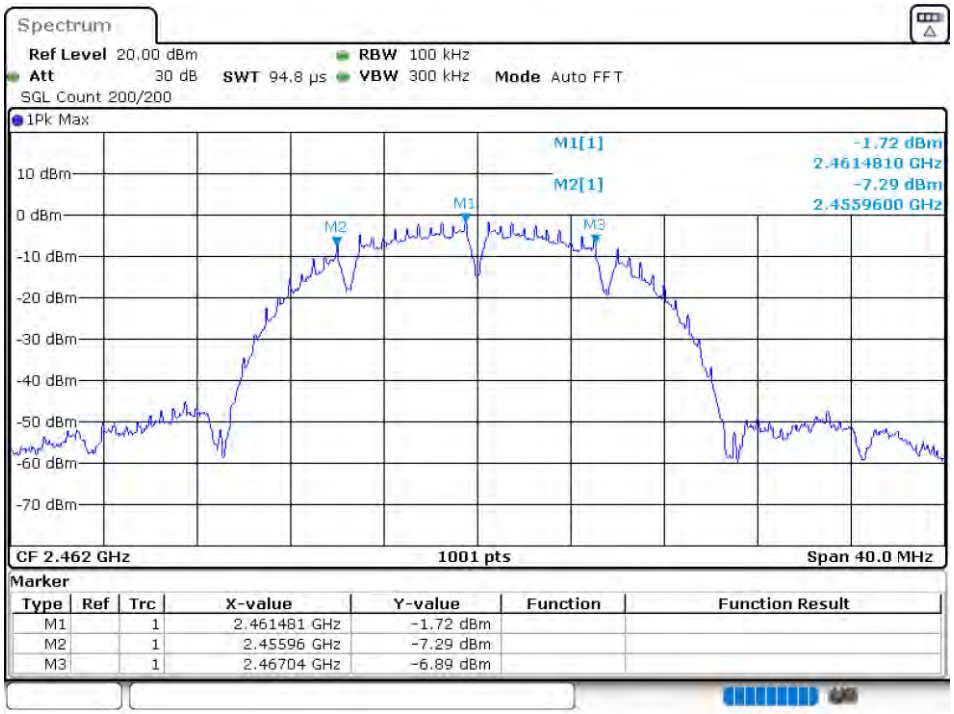
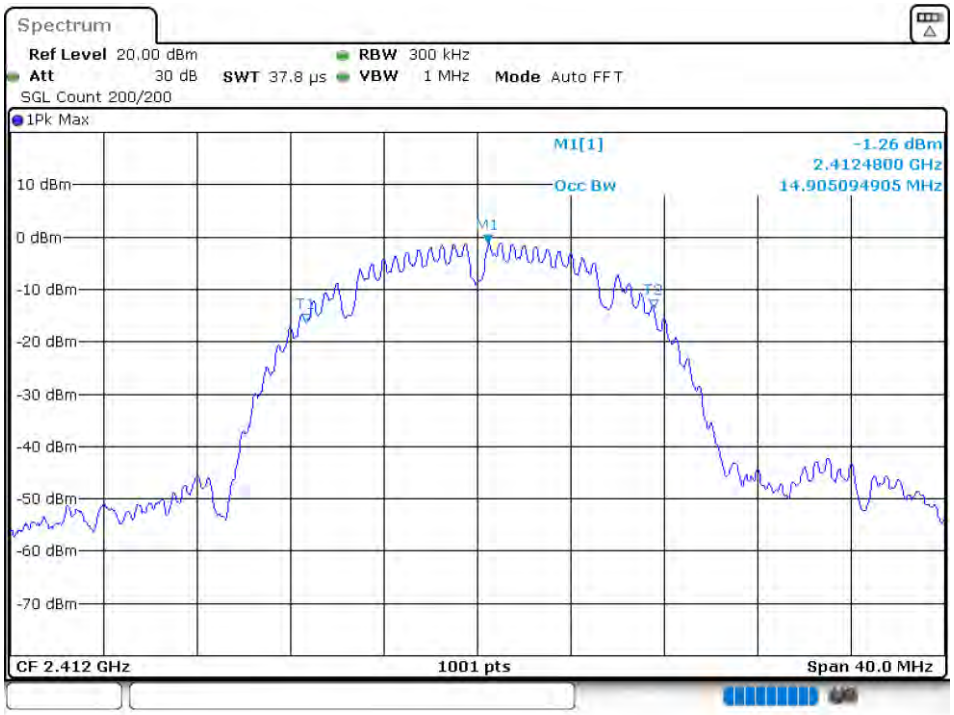


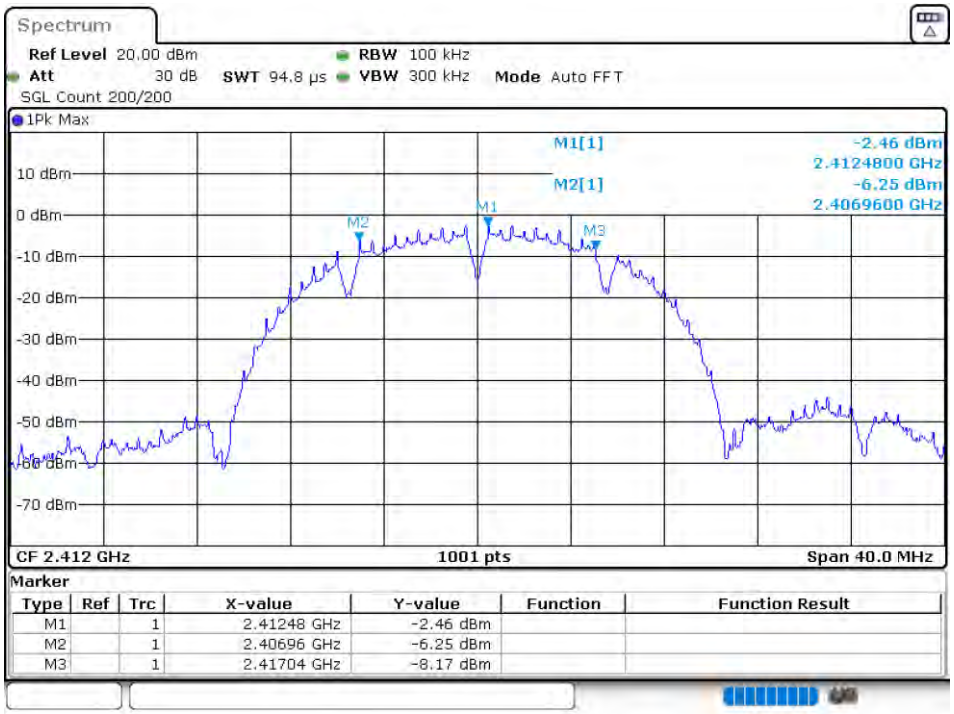
-6 dB BW NVNT 802.11b 2462MHz Ant 1



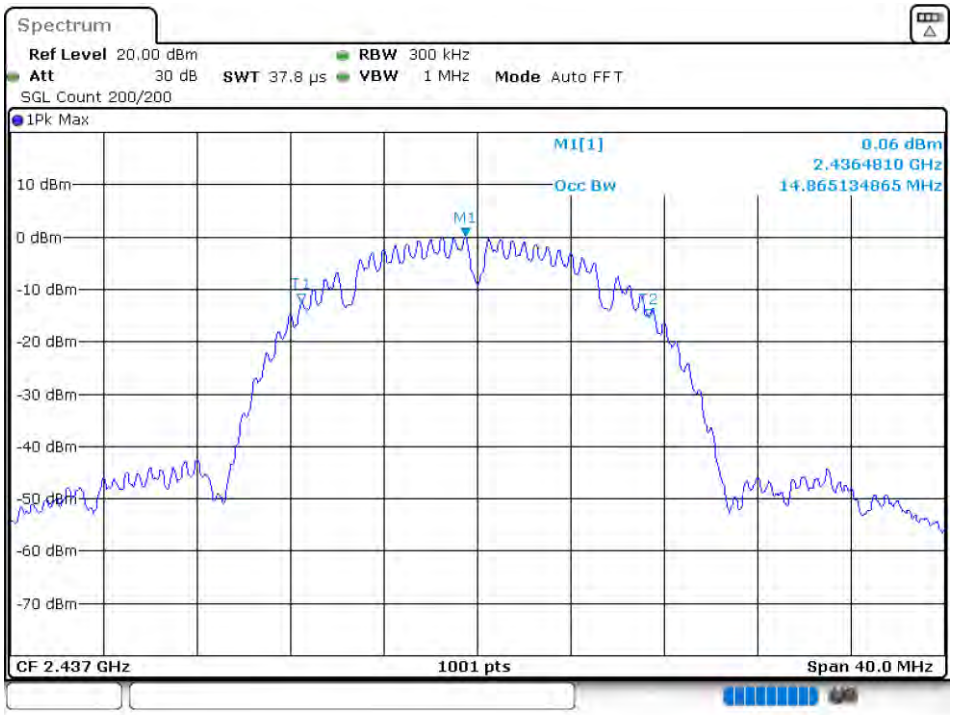
OBW NVNT 802.11b 2412MHz Ant 2



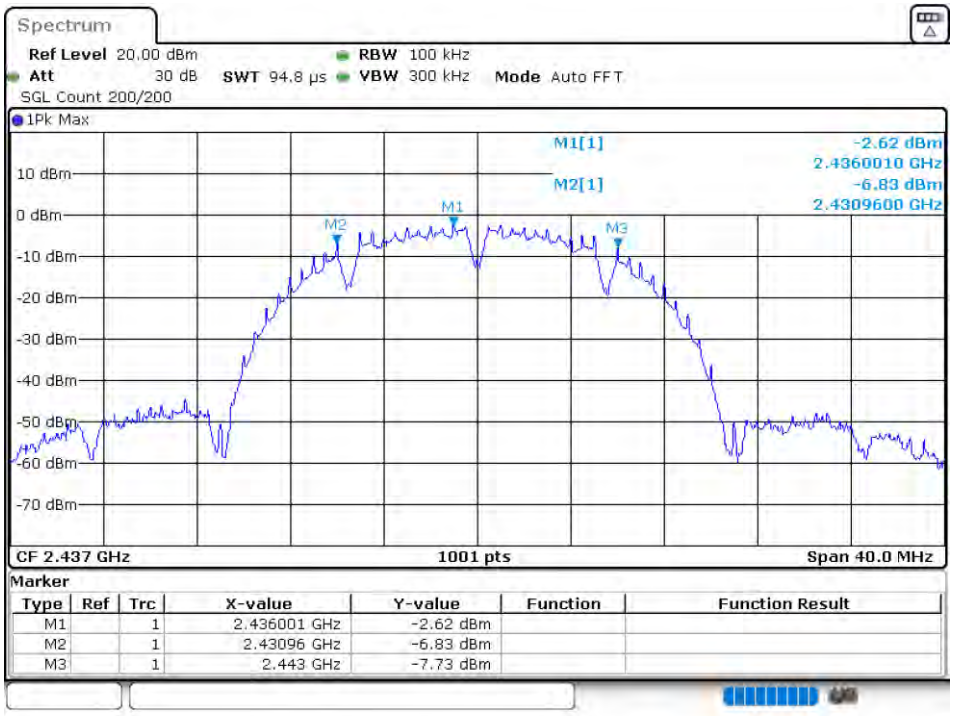
-6 dB BW NVNT 802.11b 2412MHz Ant 2



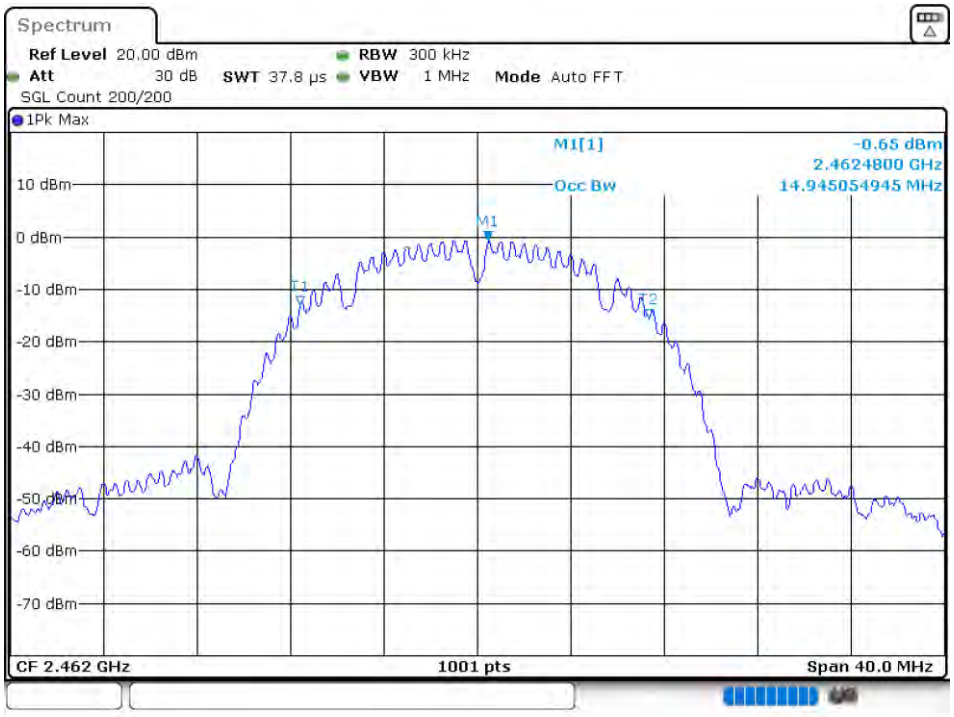
OBW NVNT 802.11b 2437MHz Ant 2



-6 dB BW NVNT 802.11b 2437MHz Ant 2



OBW NVNT 802.11b 2462MHz Ant 2



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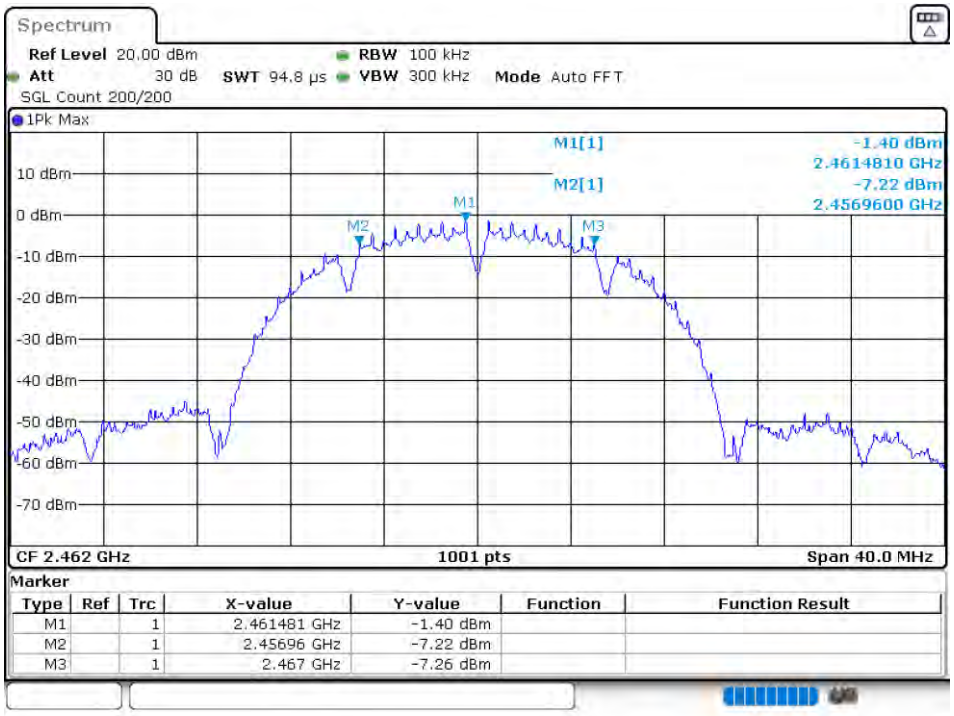
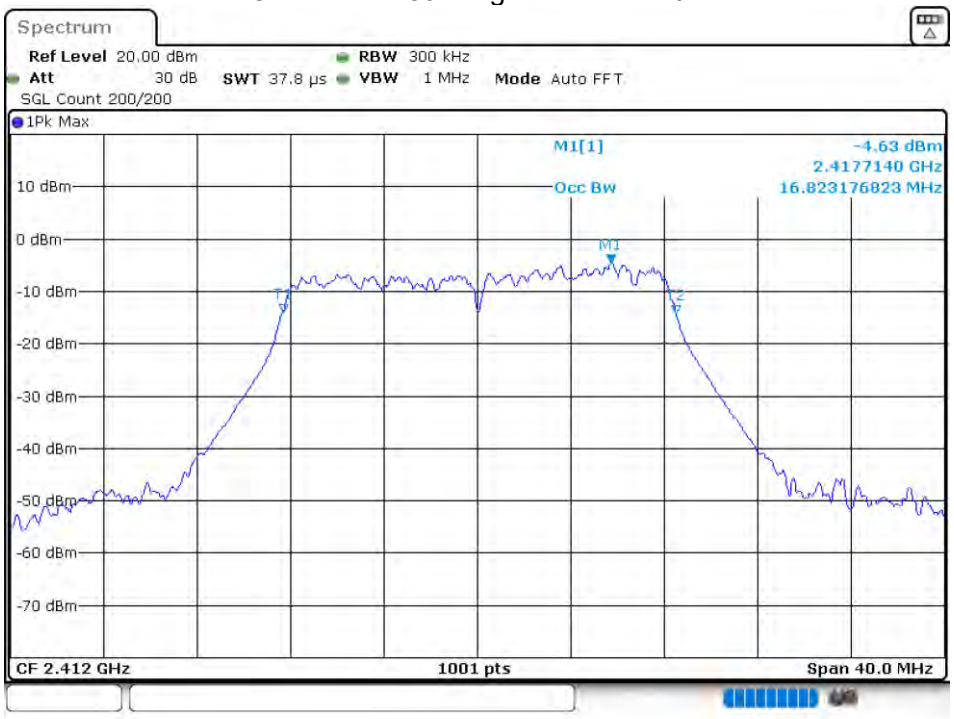


OBW NVNT 802.11g 2412MHz Ant 1



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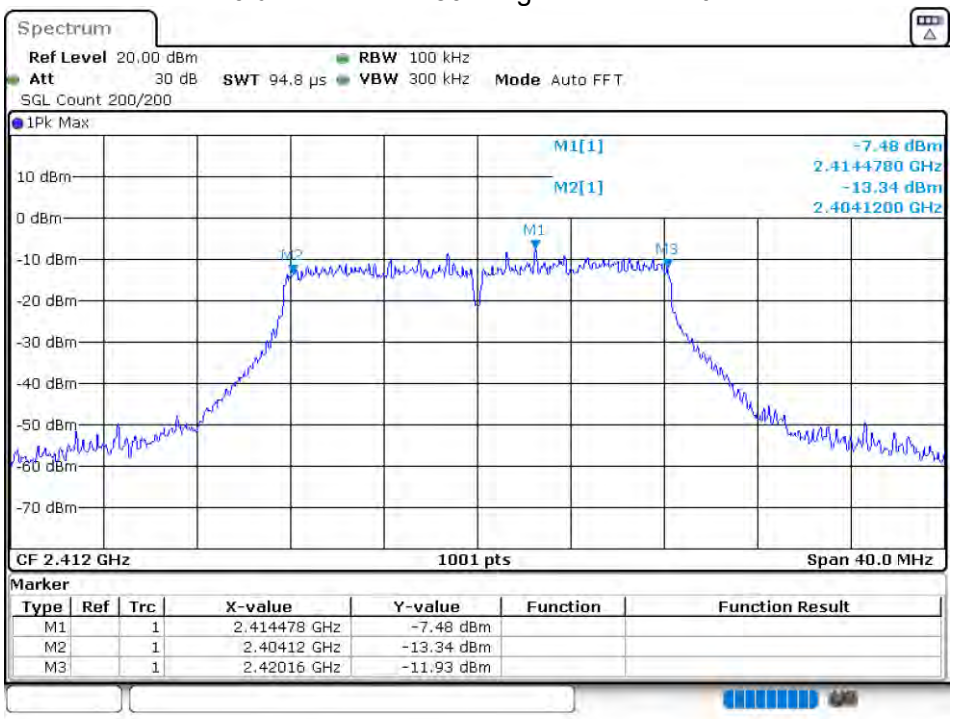
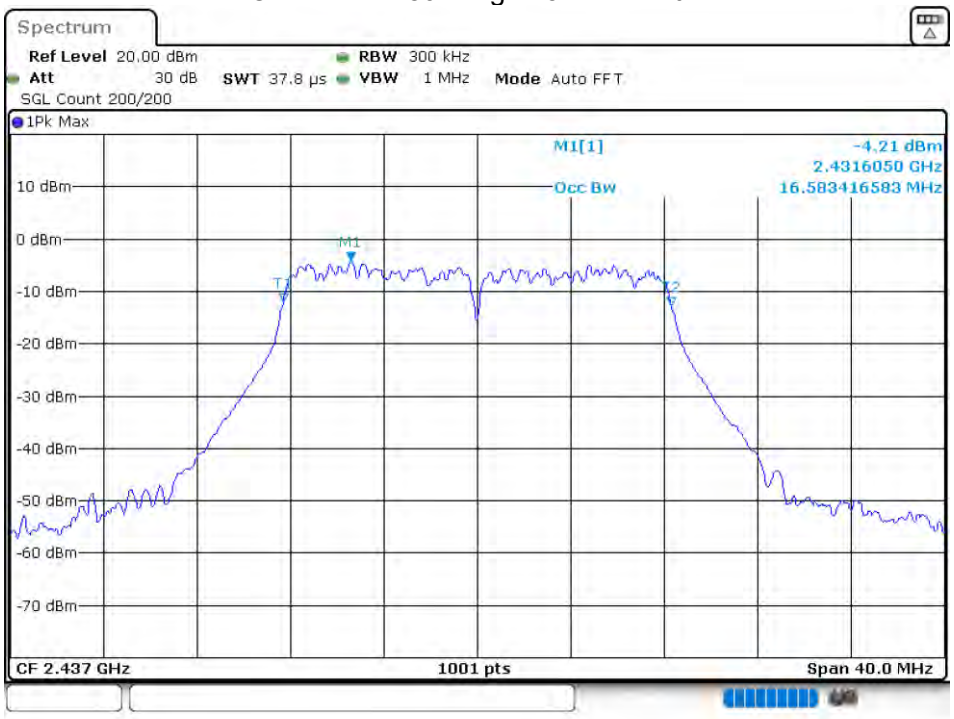
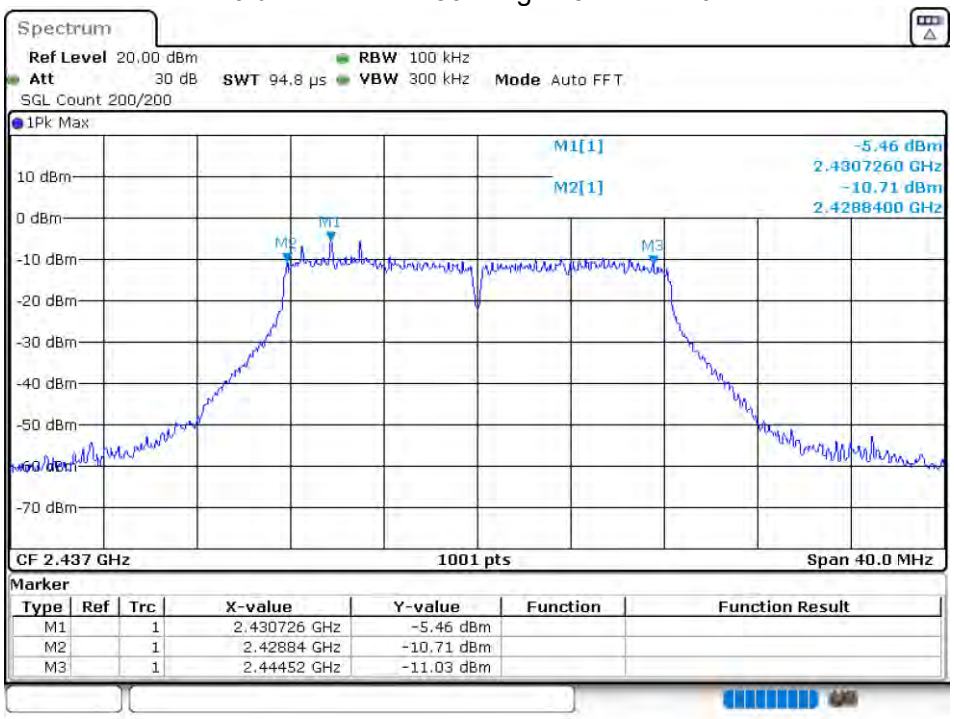


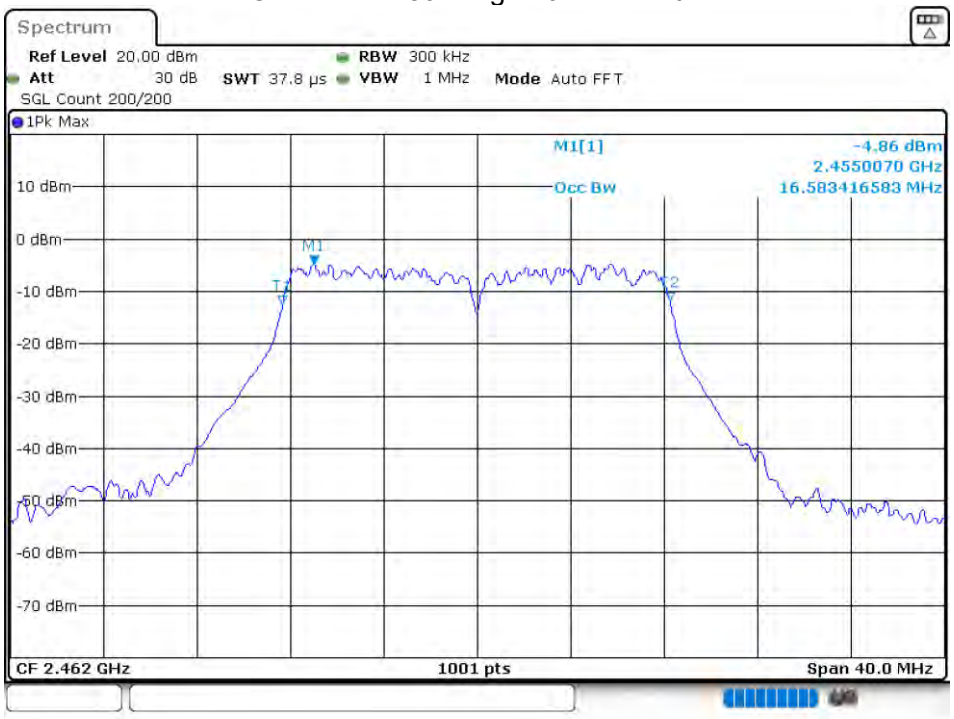
OBW NVNT 802.11g 2437MHz Ant 1



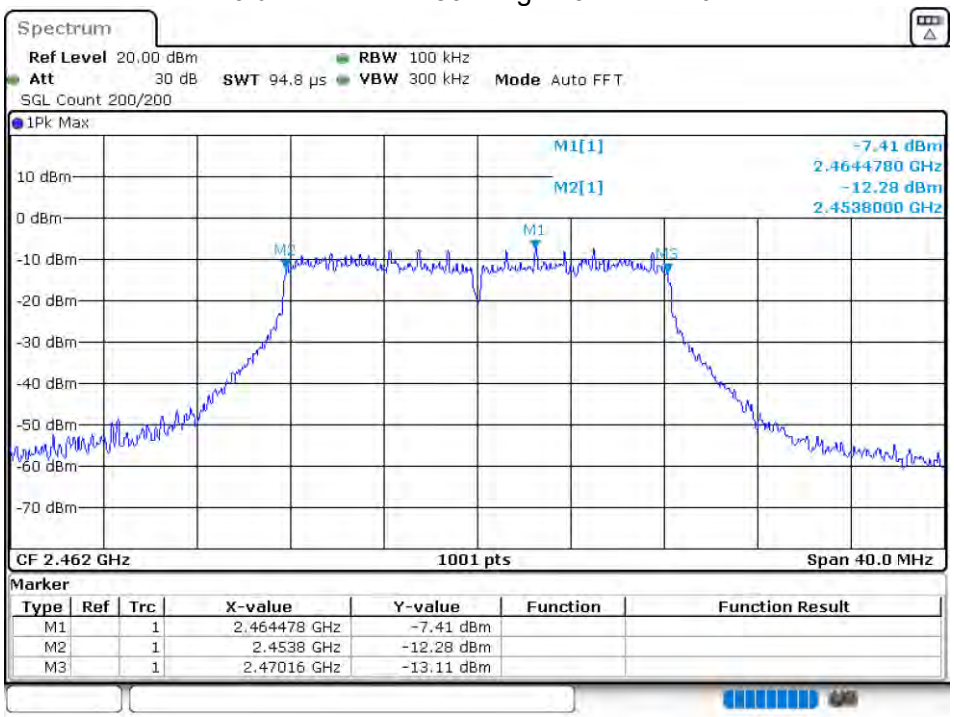
-6 dB BW NVNT 802.11g 2437MHz Ant 1



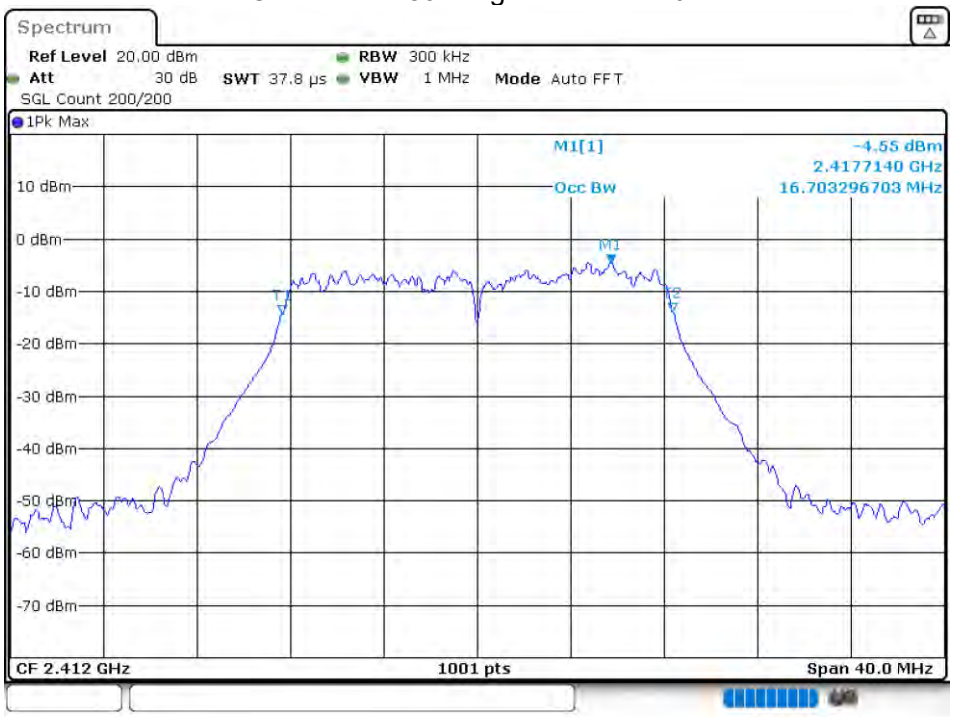
OBW NVNT 802.11g 2462MHz Ant 1



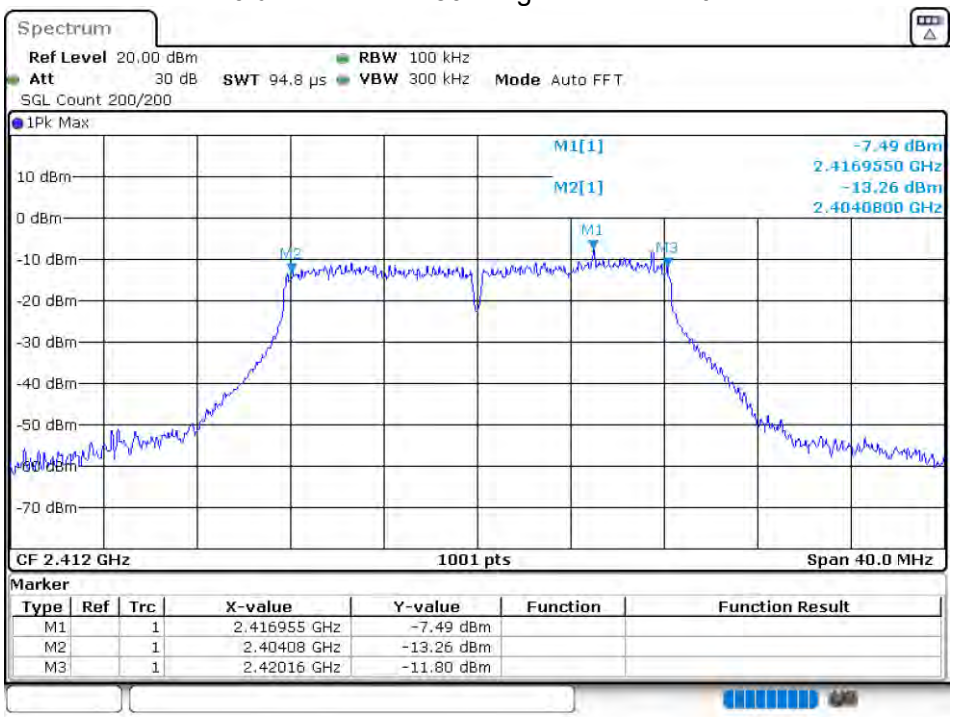
-6 dB BW NVNT 802.11g 2462MHz Ant 1



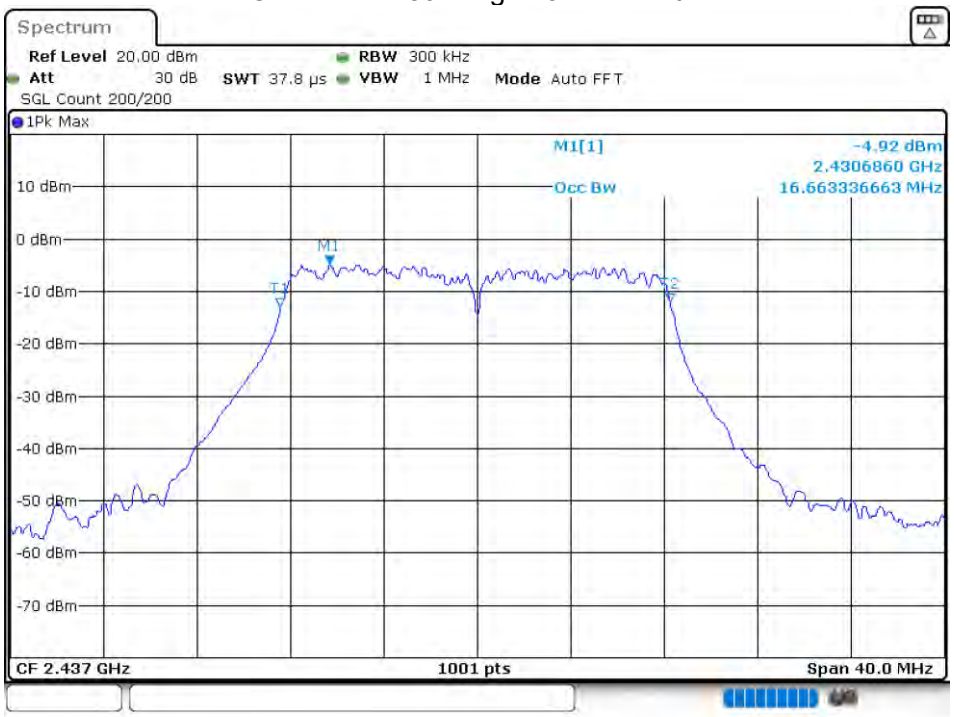
OBW NVNT 802.11g 2412MHz Ant 2



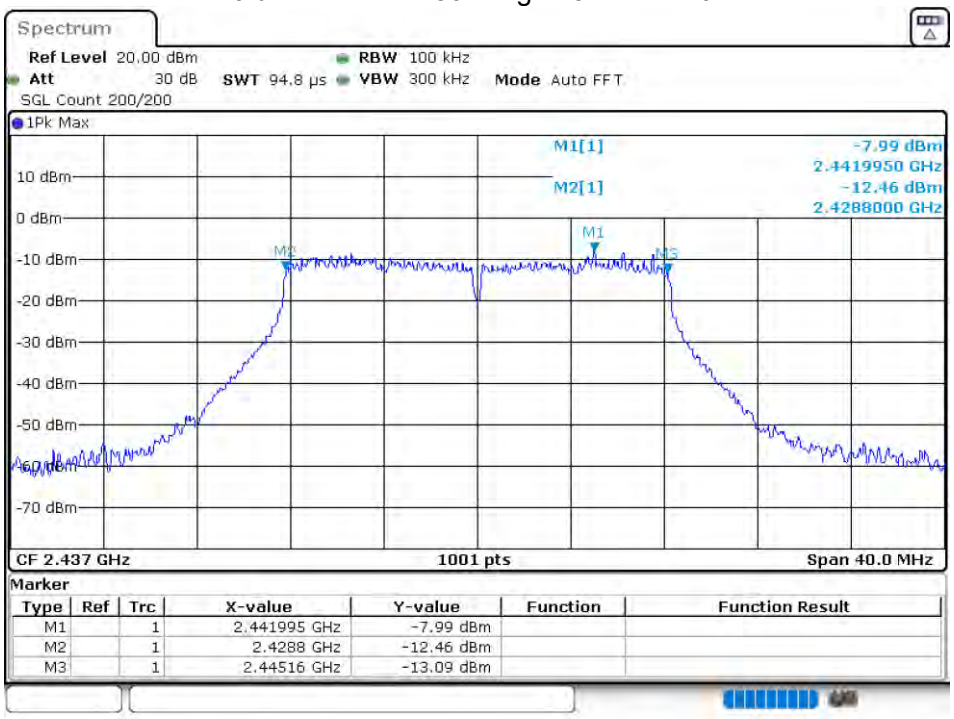
-6 dB BW NVNT 802.11g 2412MHz Ant 2



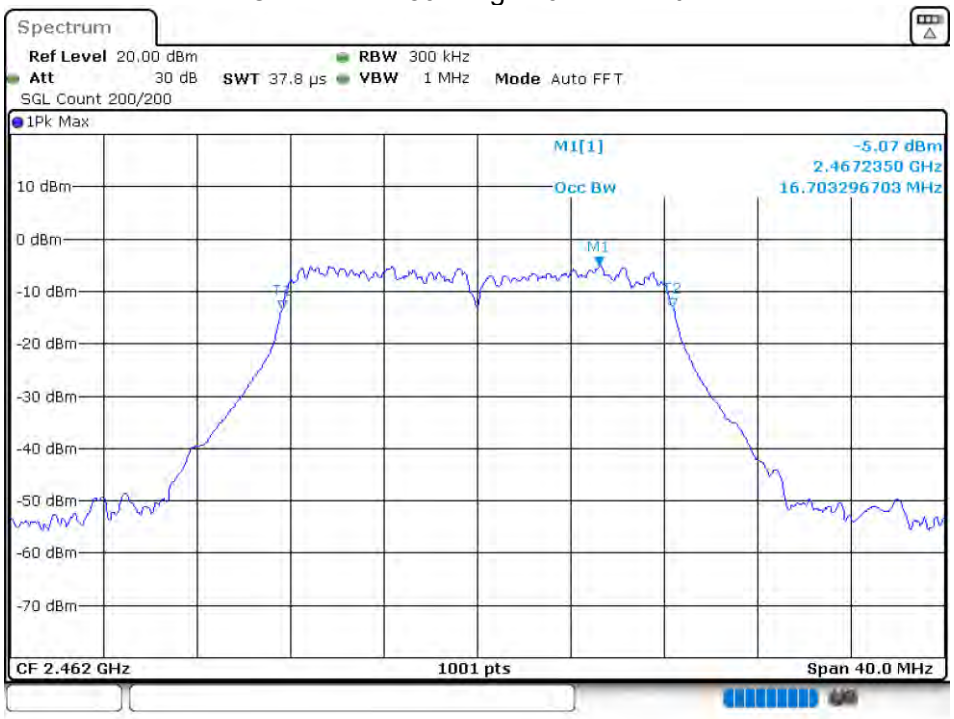
OBW NVNT 802.11g 2437MHz Ant 2



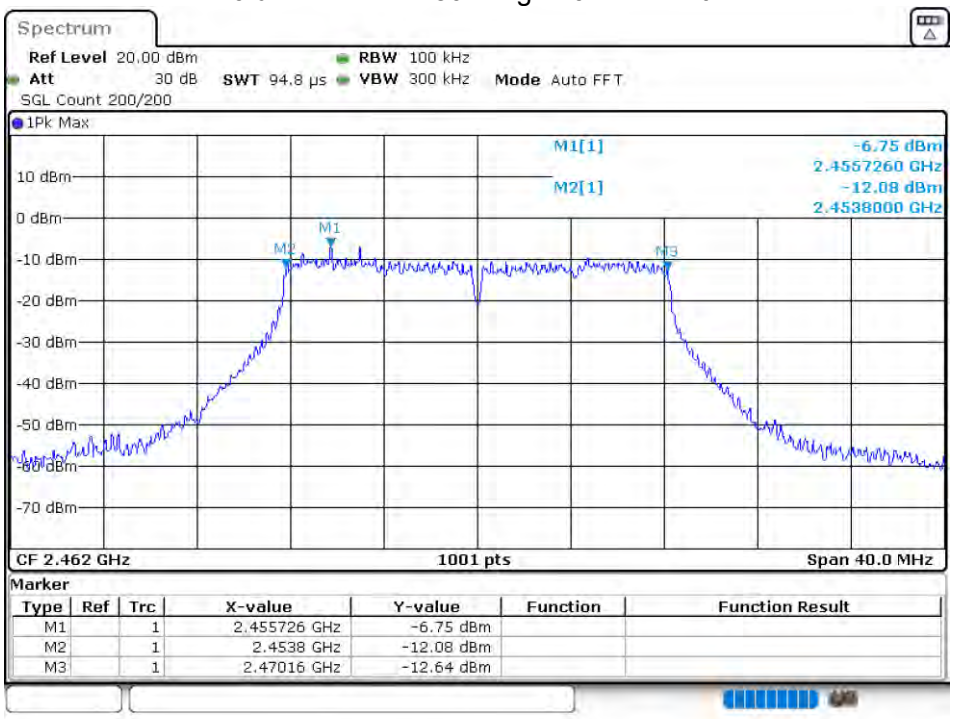
-6 dB BW NVNT 802.11g 2437MHz Ant 2



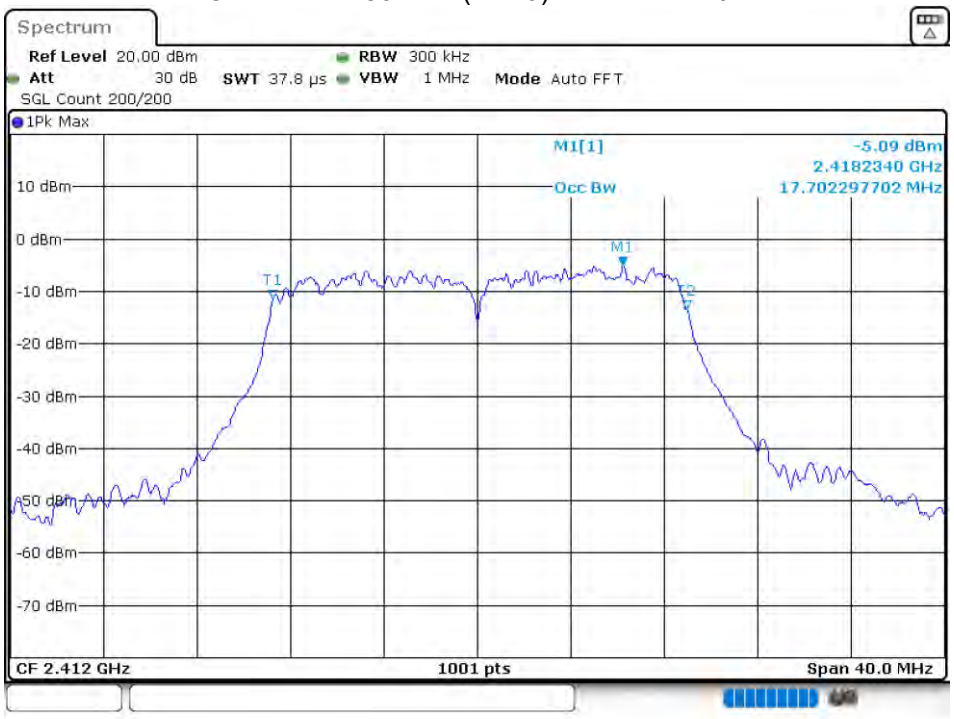
OBW NVNT 802.11g 2462MHz Ant 2



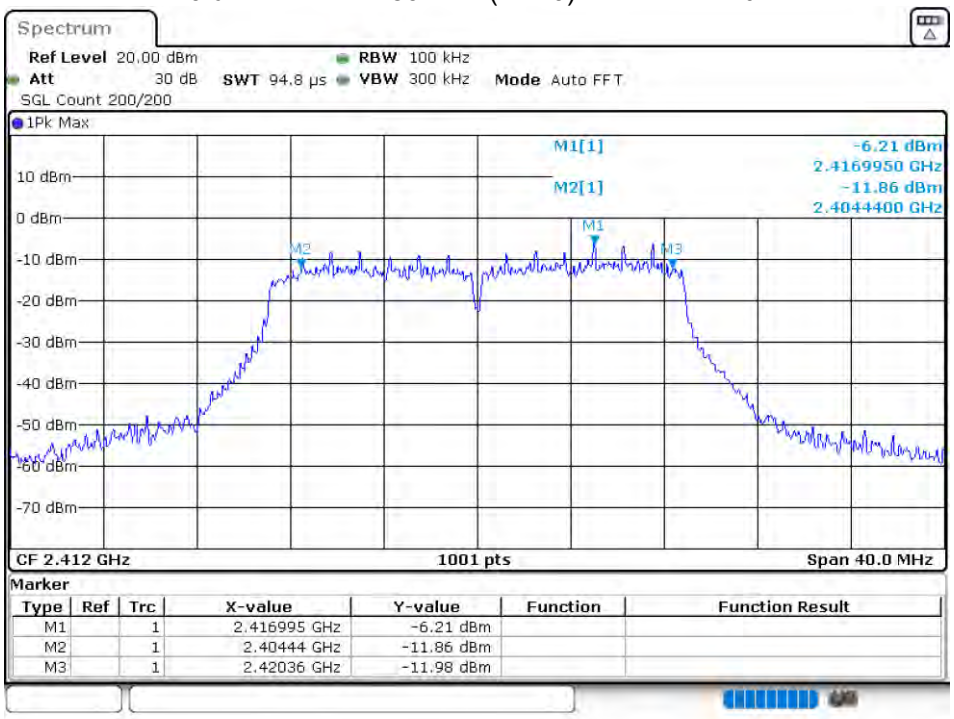
-6 dB BW NVNT 802.11g 2462MHz Ant 2



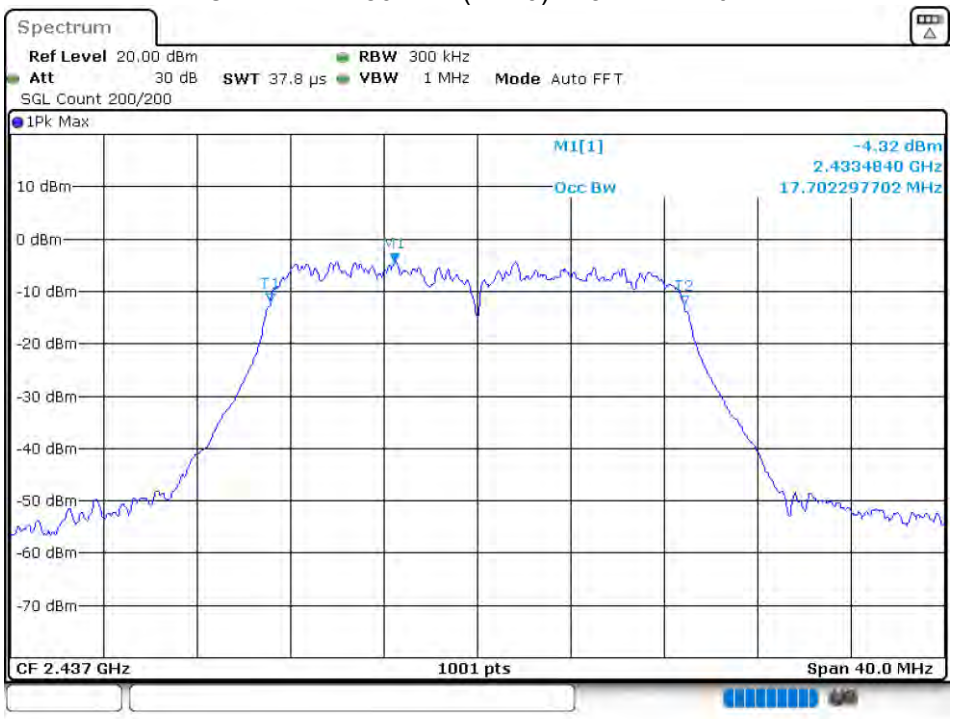
OBW NVNT 802.11n(HT20) 2412MHz Ant 1



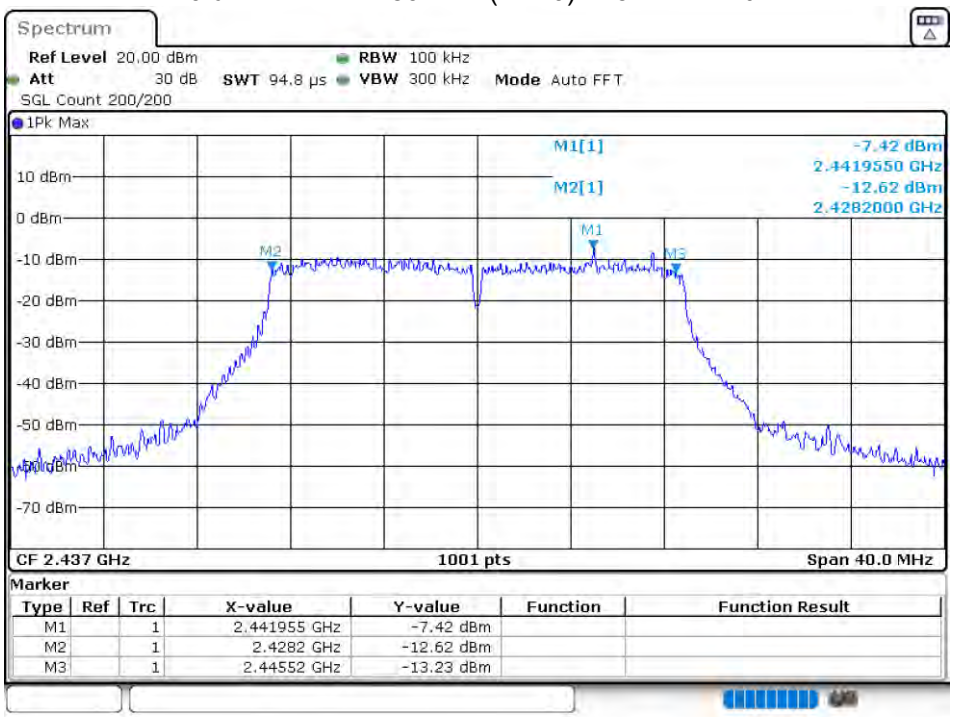
-6 dB BW NVNT 802.11n(HT20) 2412MHz Ant 1



OBW NVNT 802.11n(HT20) 2437MHz Ant 1



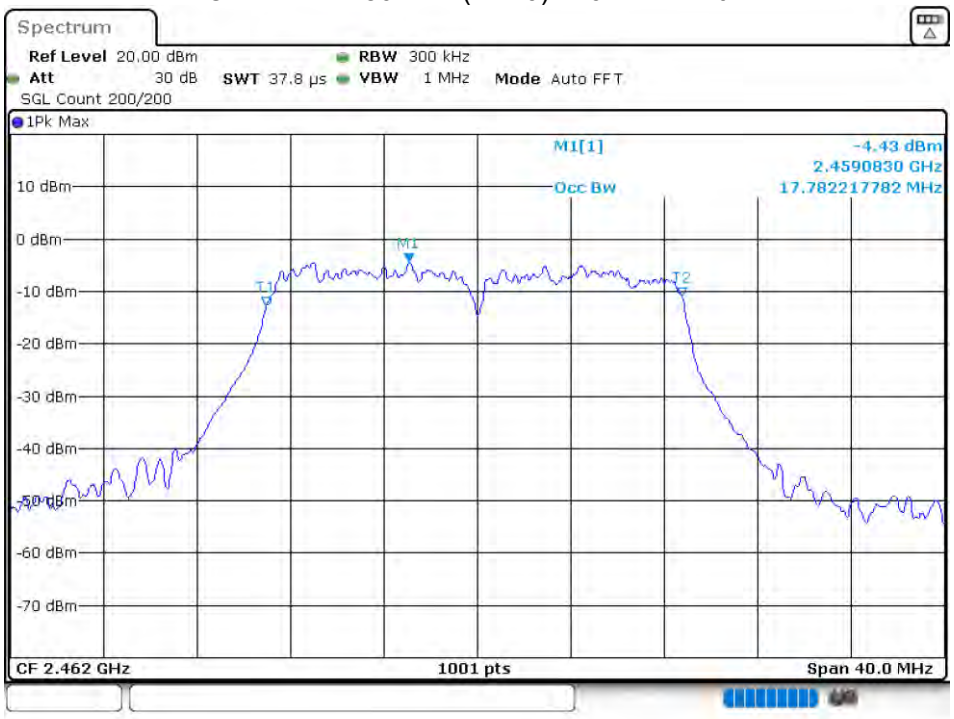
-6 dB BW NVNT 802.11n(HT20) 2437MHz Ant 1



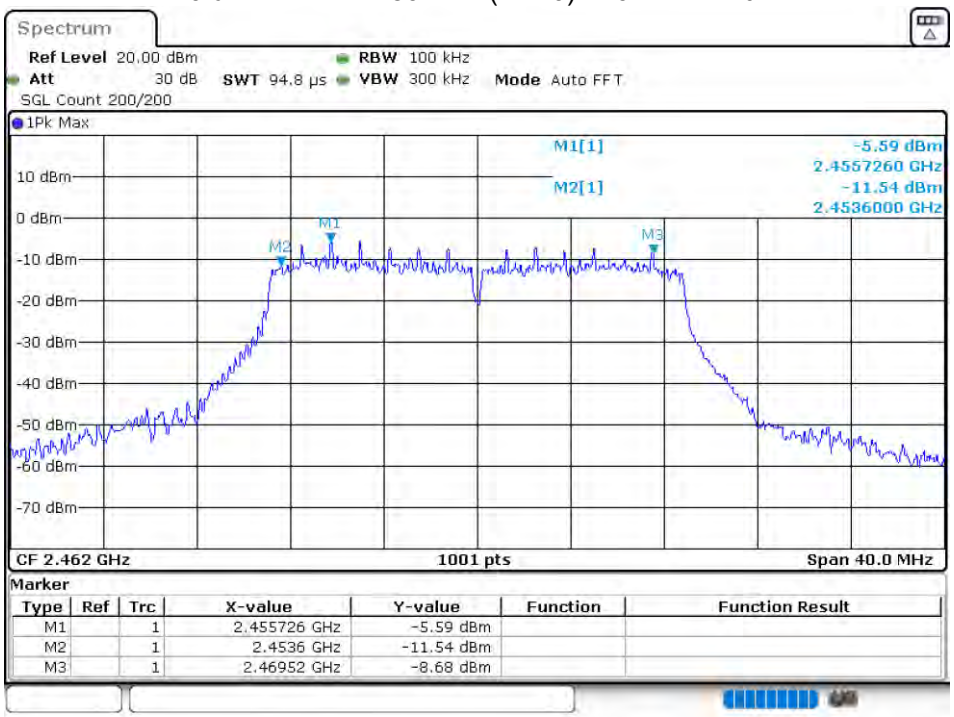
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.441955 GHz	-7.42 dBm		
M2		1	2.4282 GHz	-12.62 dBm		
M3		1	2.44552 GHz	-13.23 dBm		

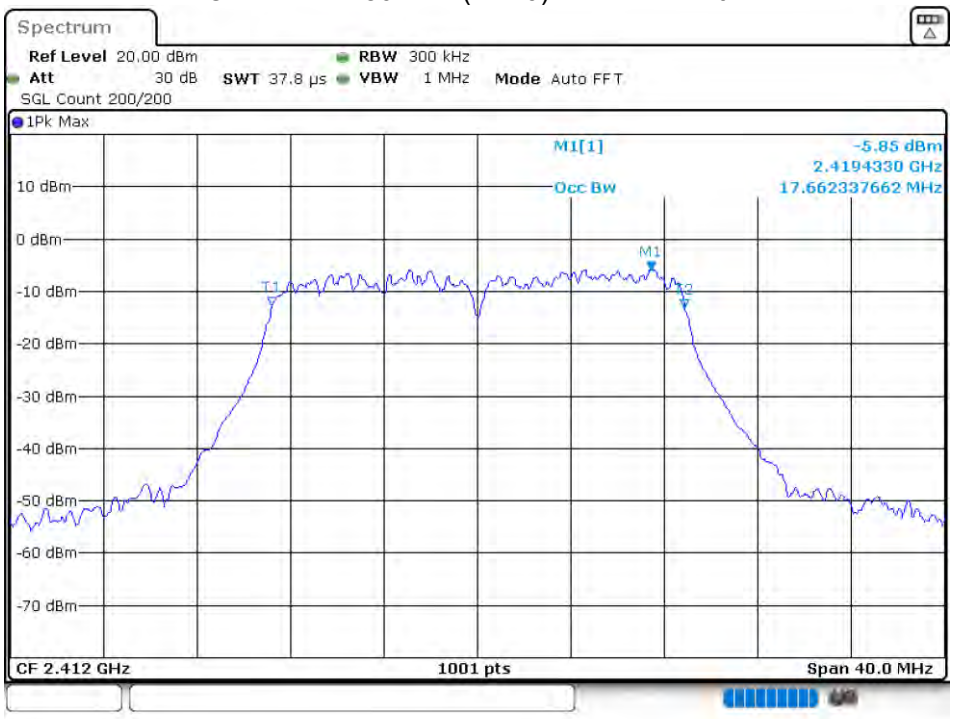
OBW NVNT 802.11n(HT20) 2462MHz Ant 1



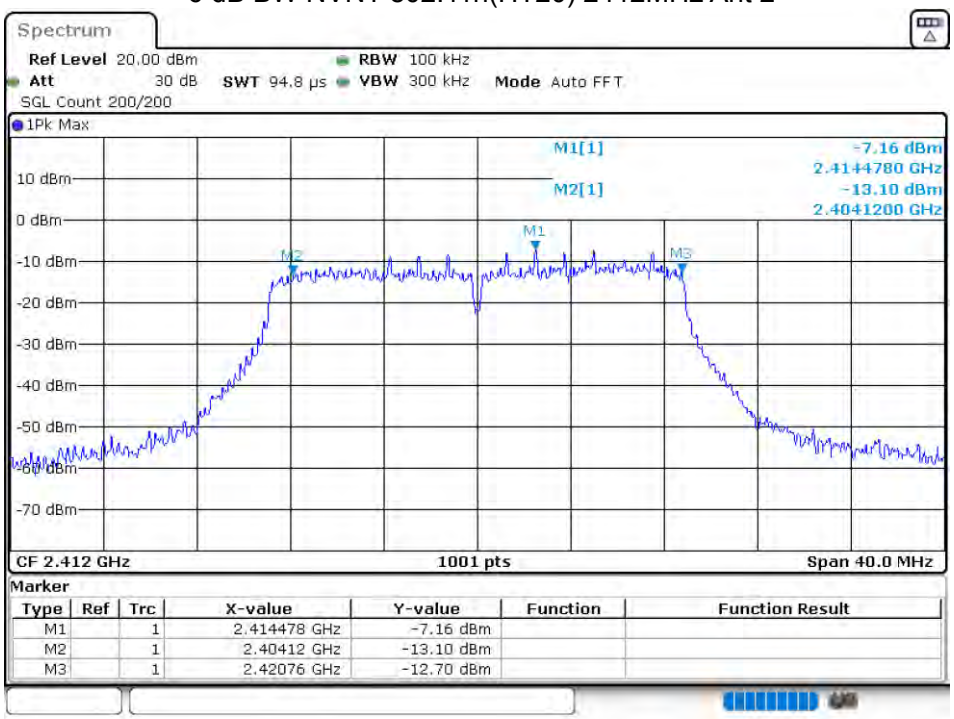
-6 dB BW NVNT 802.11n(HT20) 2462MHz Ant 1



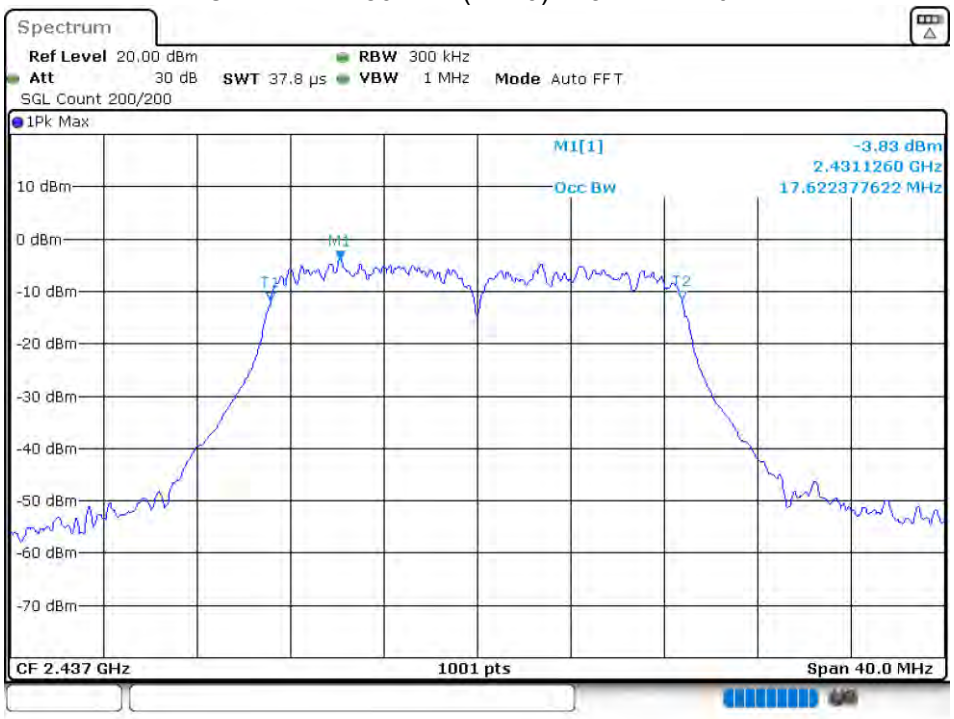
OBW NVNT 802.11n(HT20) 2412MHz Ant 2



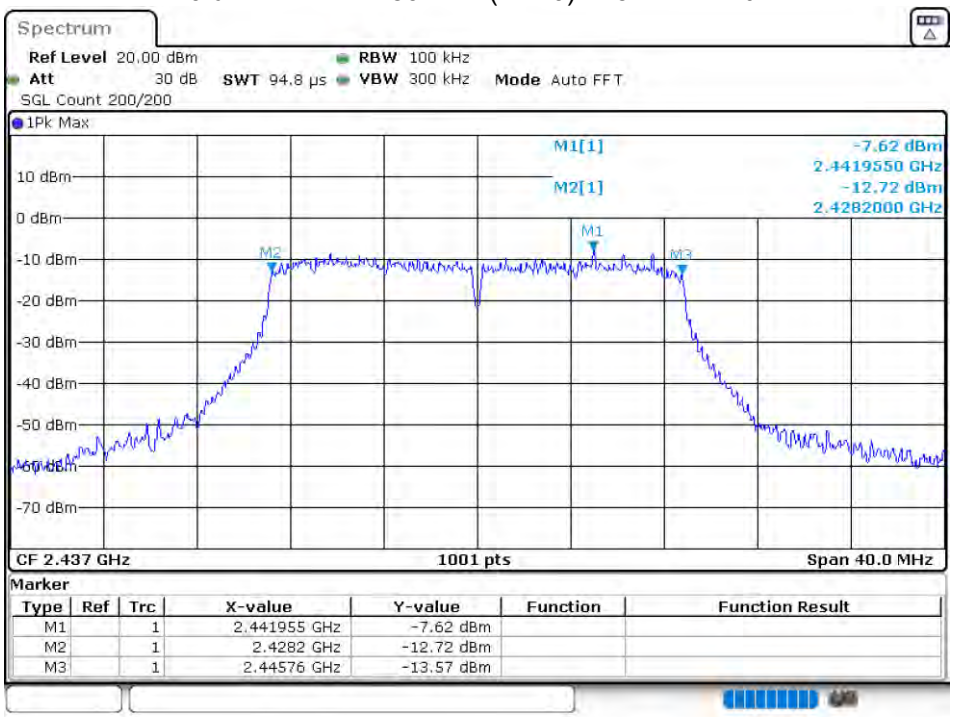
-6 dB BW NVNT 802.11n(HT20) 2412MHz Ant 2



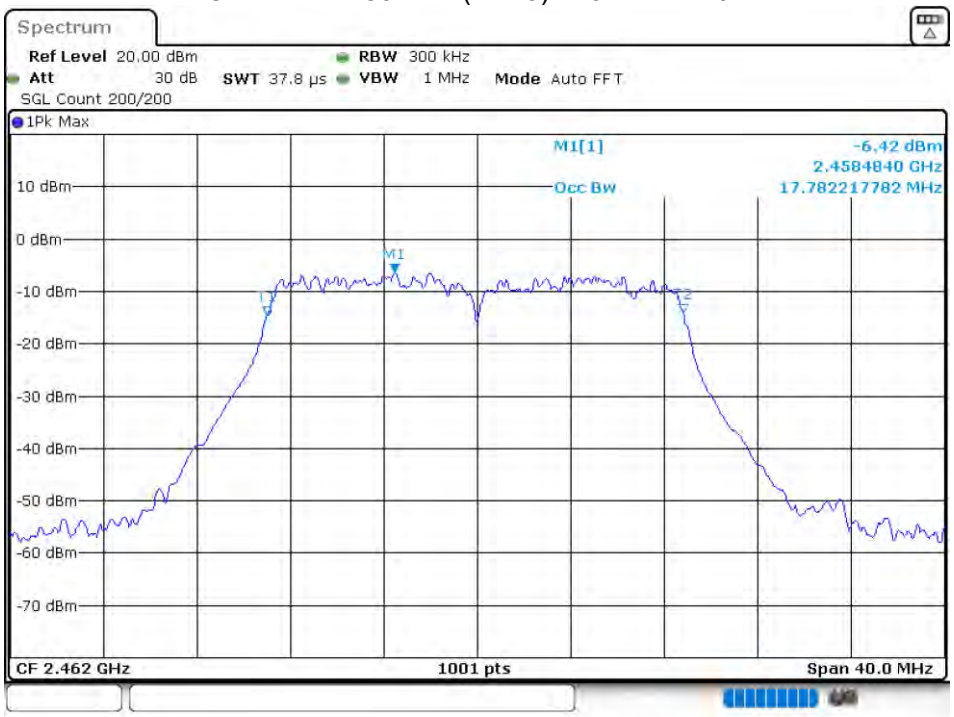
OBW NVNT 802.11n(HT20) 2437MHz Ant 2



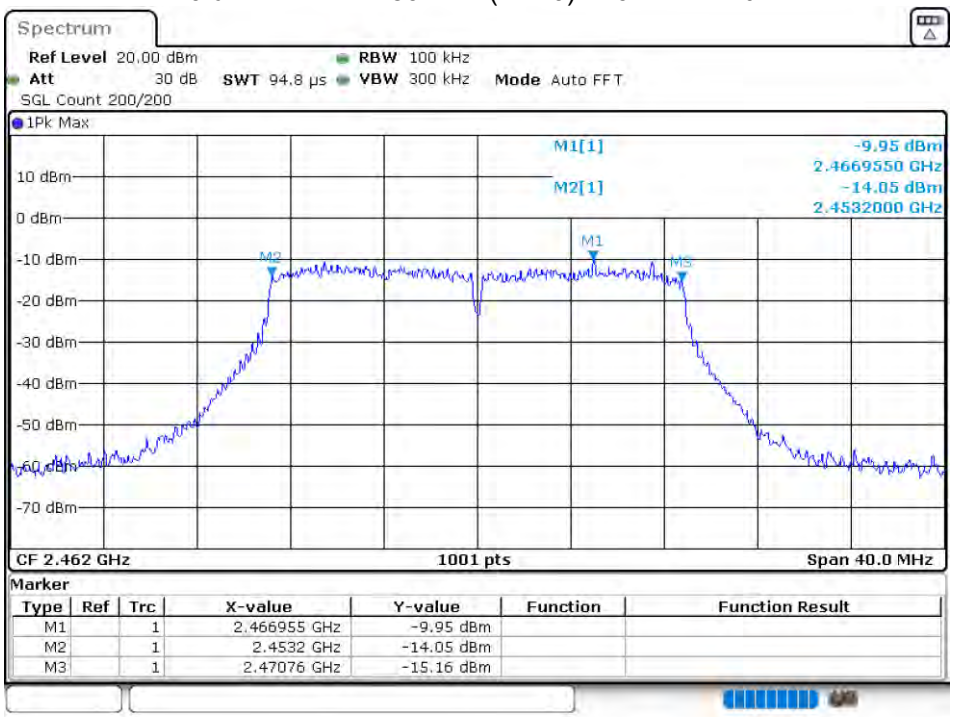
-6 dB BW NVNT 802.11n(HT20) 2437MHz Ant 2



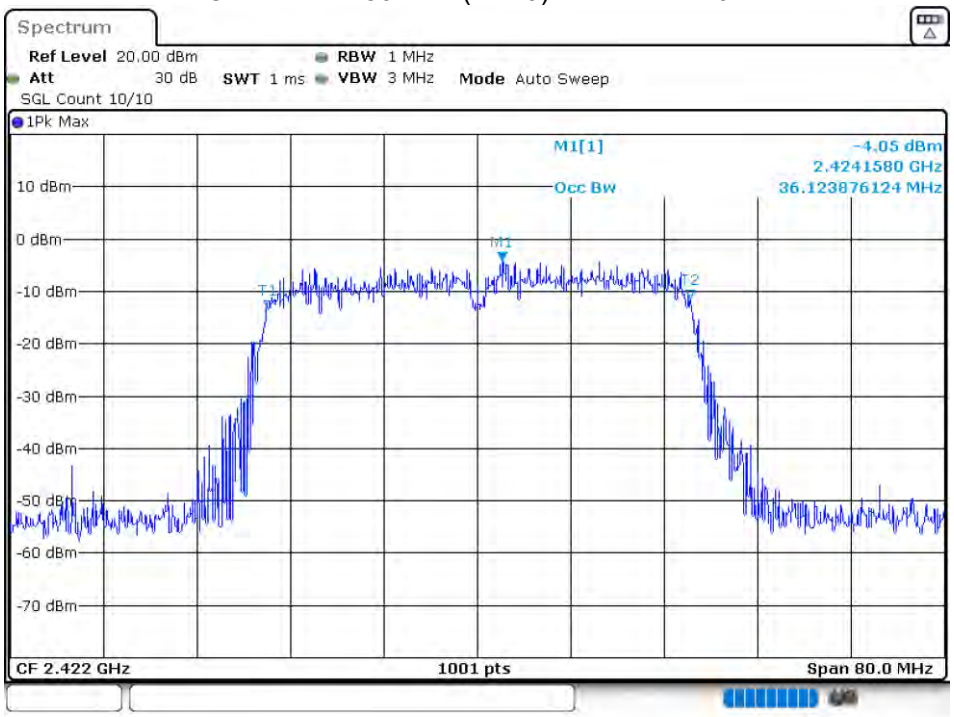
OBW NVNT 802.11n(HT20) 2462MHz Ant 2



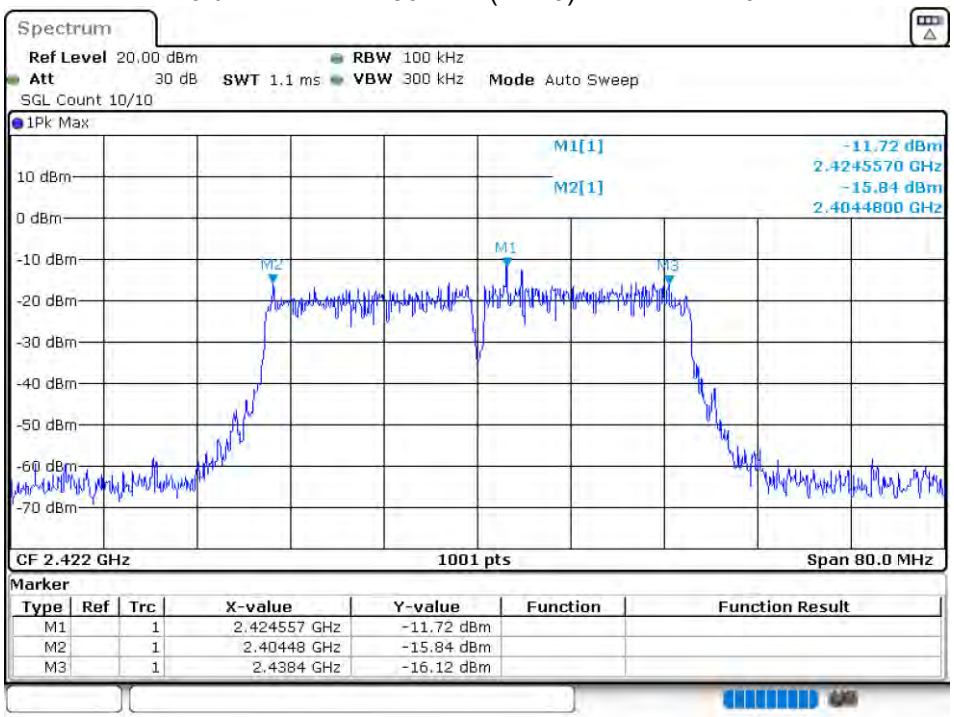
-6 dB BW NVNT 802.11n(HT20) 2462MHz Ant 2



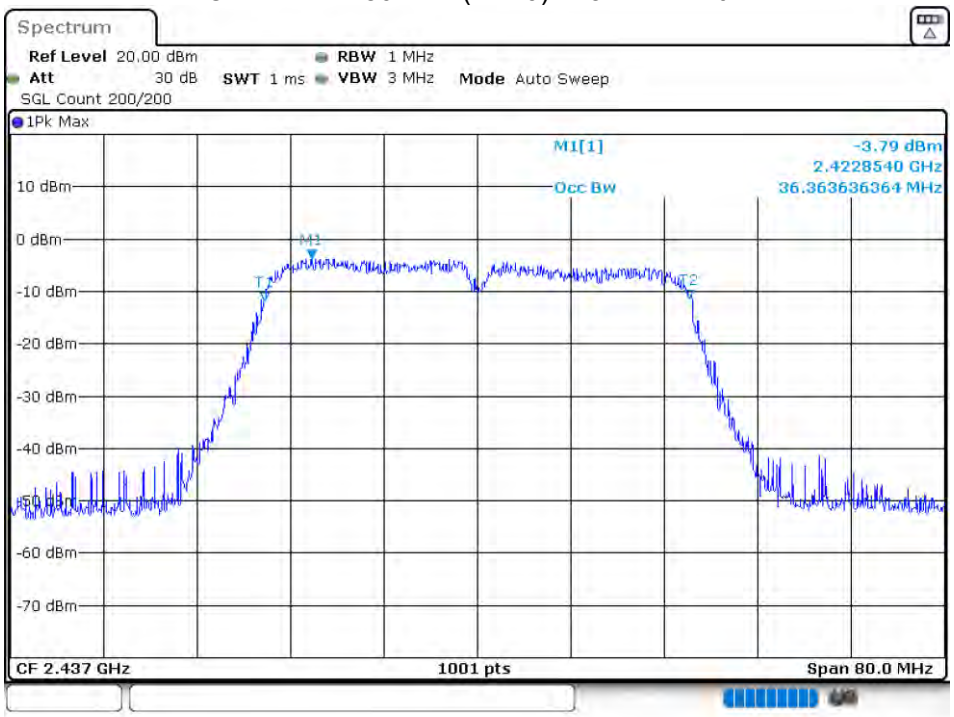
OBW NVNT 802.11n(HT40) 2422MHz Ant 1



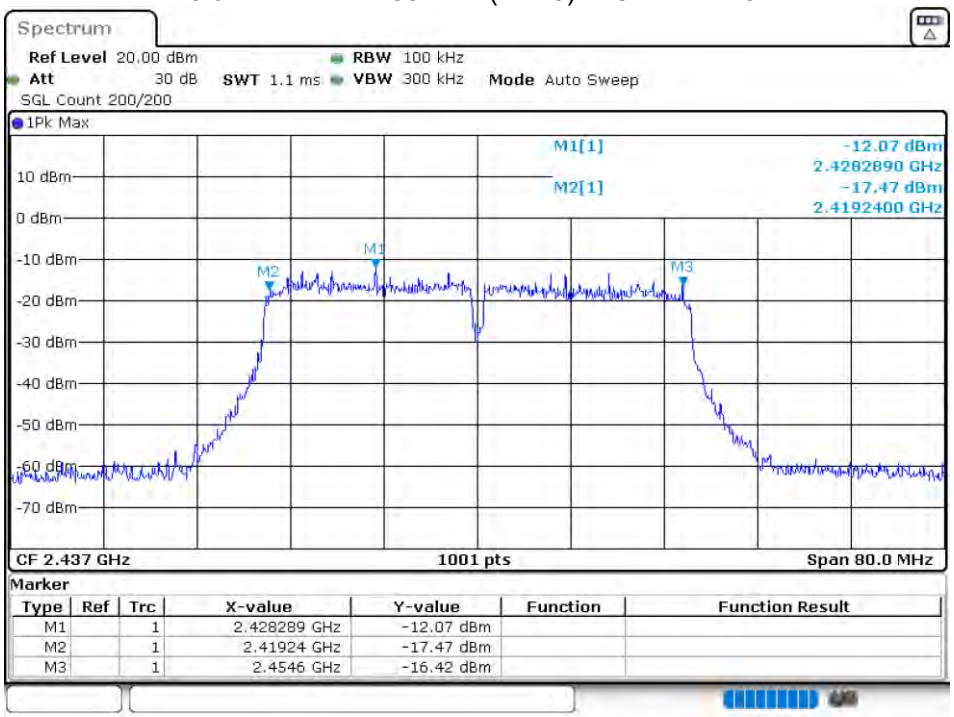
-6 dB BW NVNT 802.11n(HT40) 2422MHz Ant 1



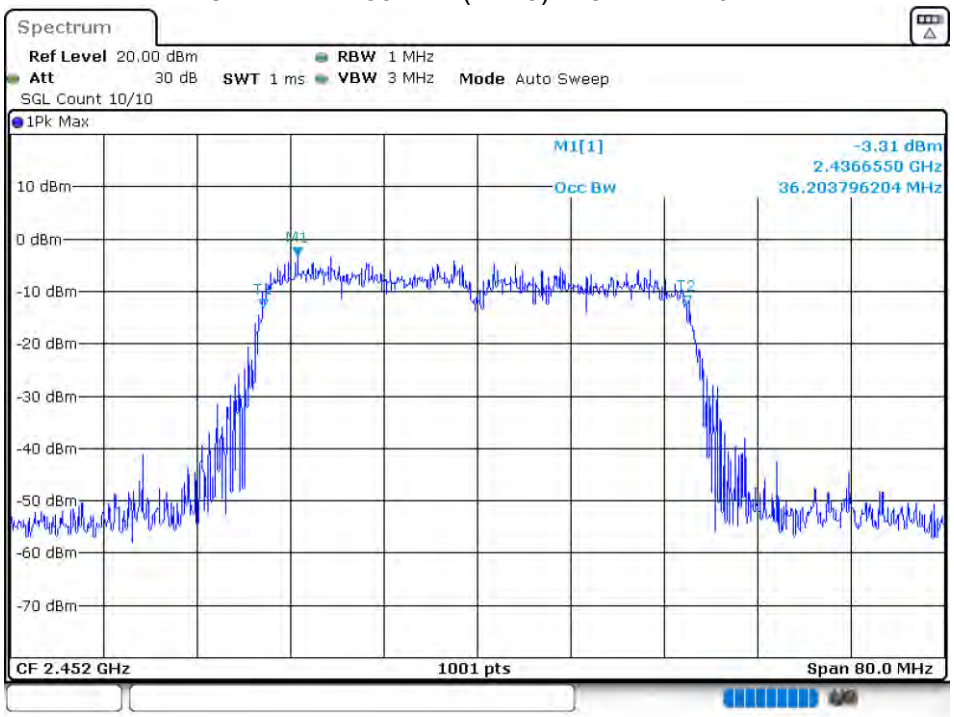
OBW NVNT 802.11n(HT40) 2437MHz Ant 1



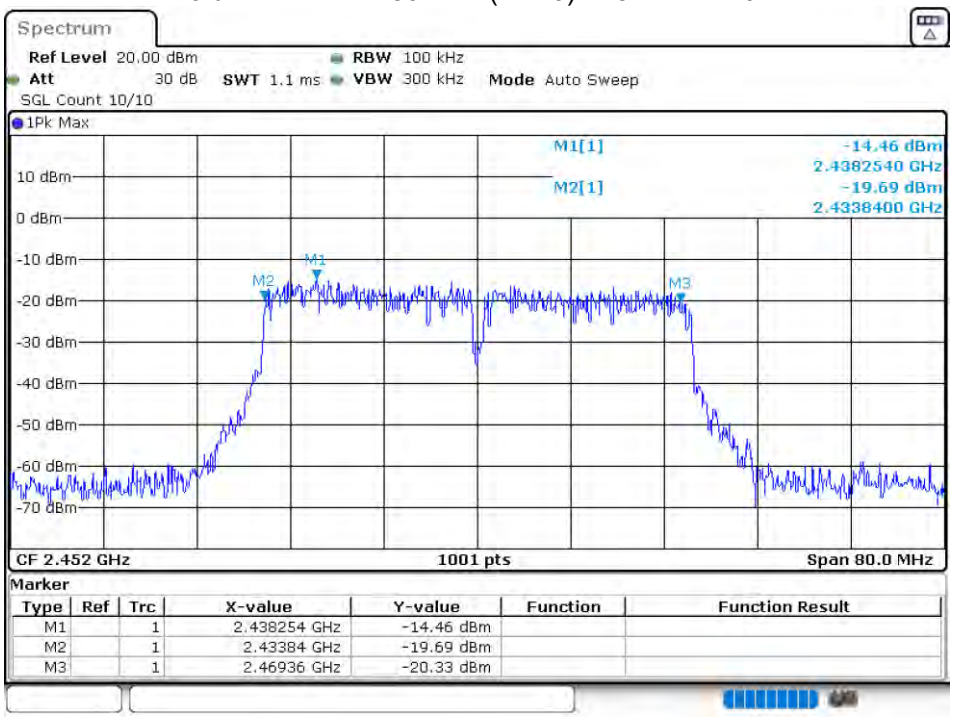
-6 dB BW NVNT 802.11n(HT40) 2437MHz Ant 1



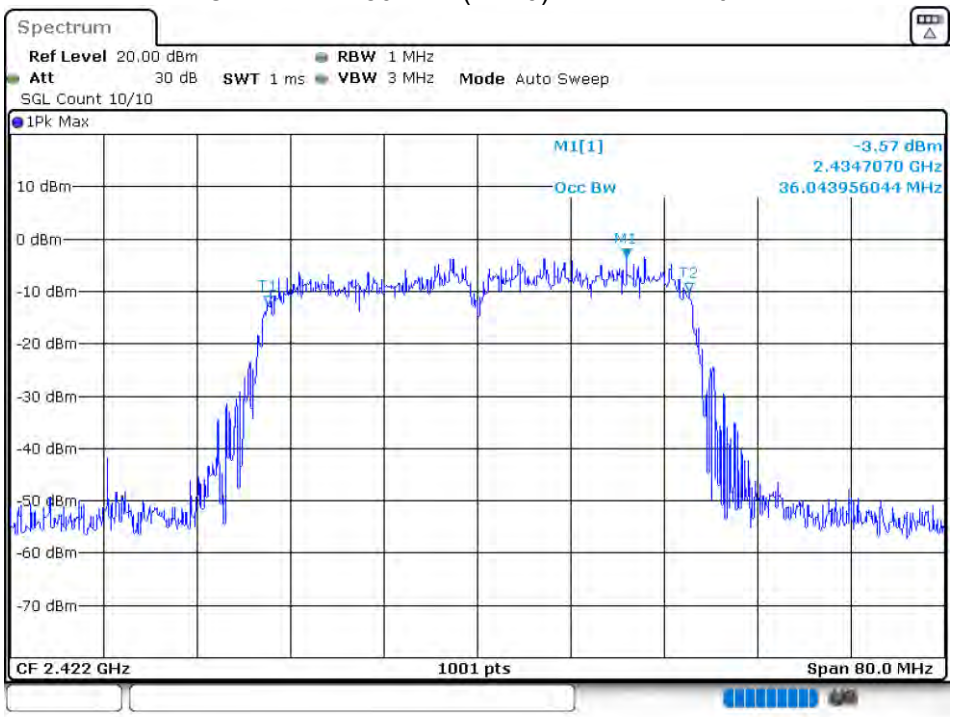
OBW NVNT 802.11n(HT40) 2452MHz Ant 1



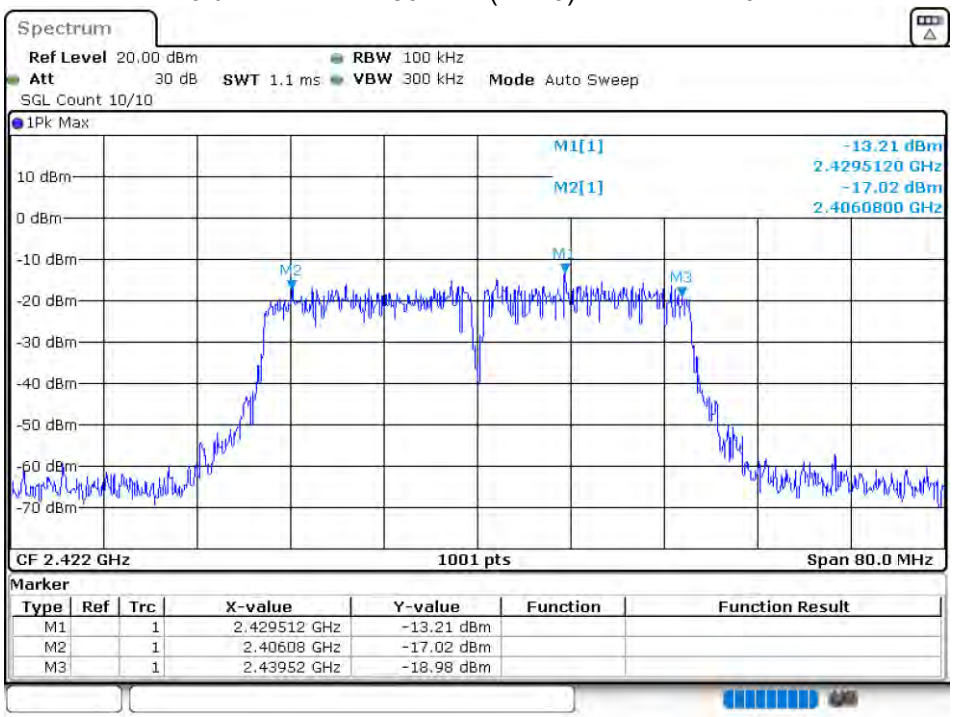
-6 dB BW NVNT 802.11n(HT40) 2452MHz Ant 1



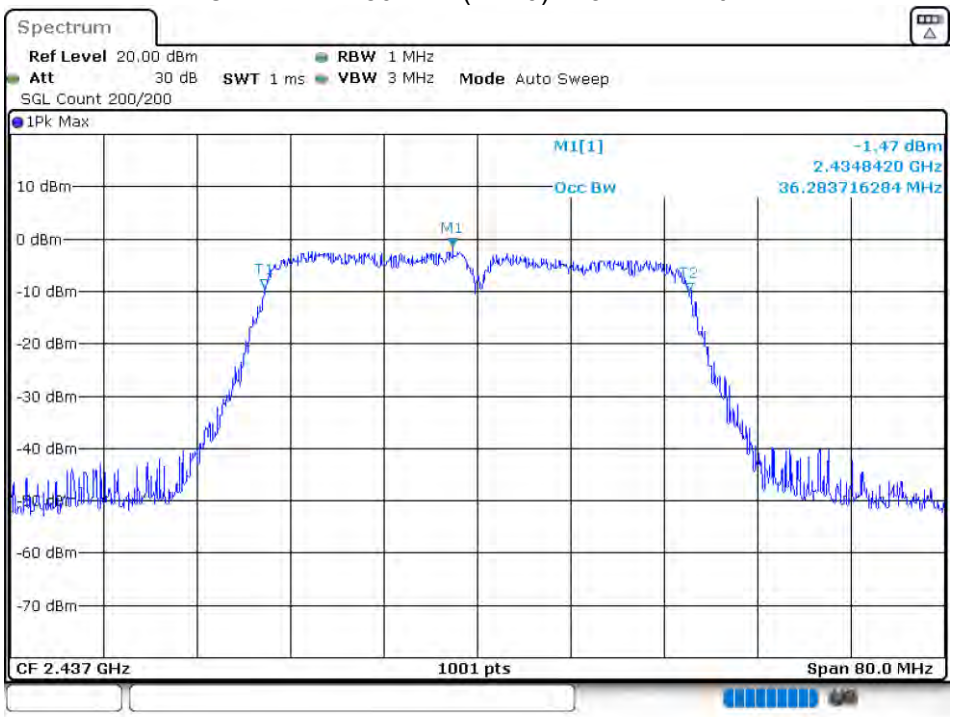
OBW NVNT 802.11n(HT40) 2422MHz Ant 2



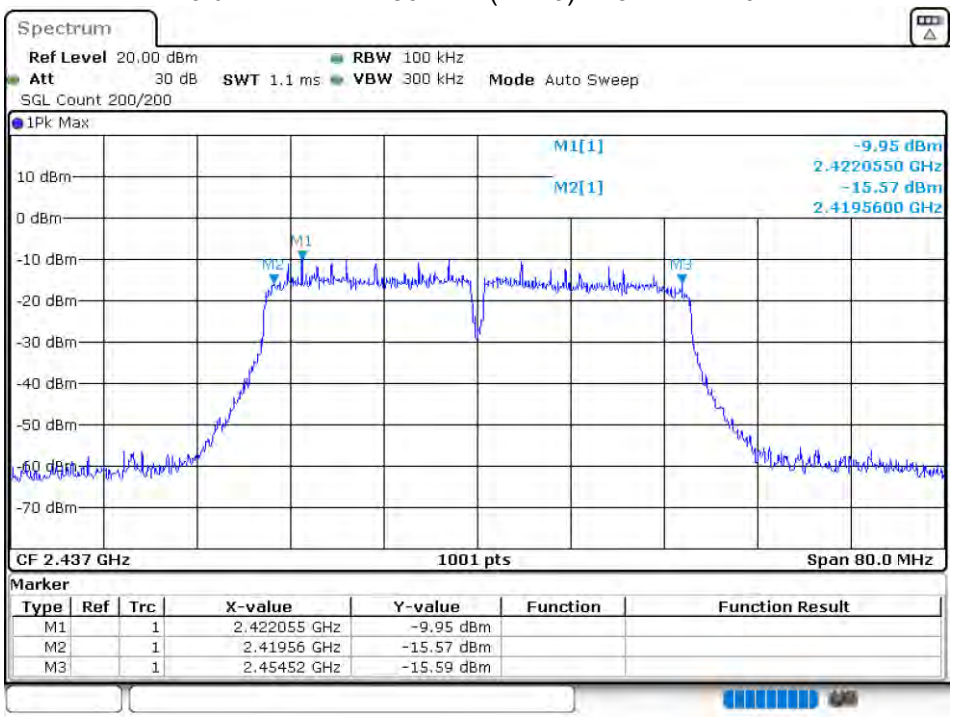
-6 dB BW NVNT 802.11n(HT40) 2422MHz Ant 2



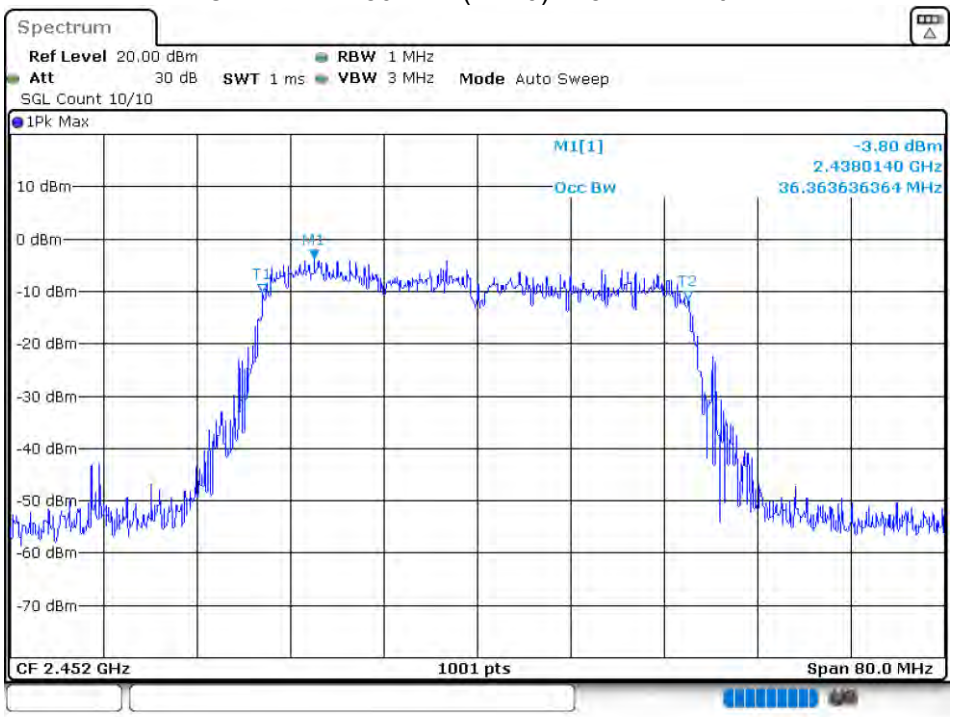
OBW NVNT 802.11n(HT40) 2437MHz Ant 2



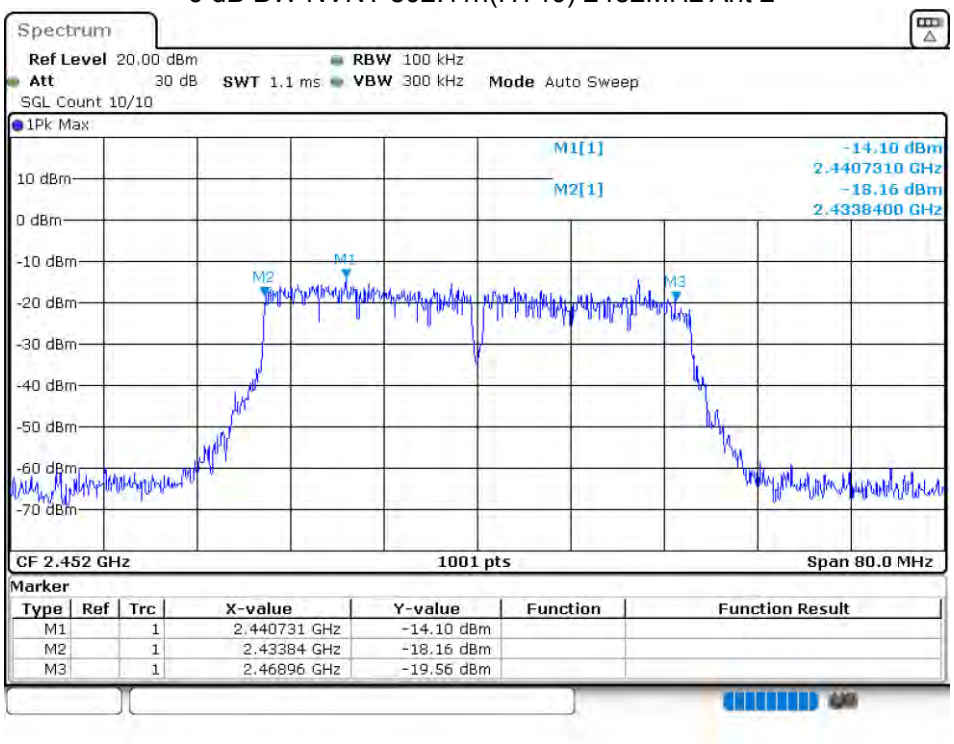
-6 dB BW NVNT 802.11n(HT40) 2437MHz Ant 2



OBW NVNT 802.11n(HT40) 2452MHz Ant 2



-6 dB BW NVNT 802.11n(HT40) 2452MHz Ant 2



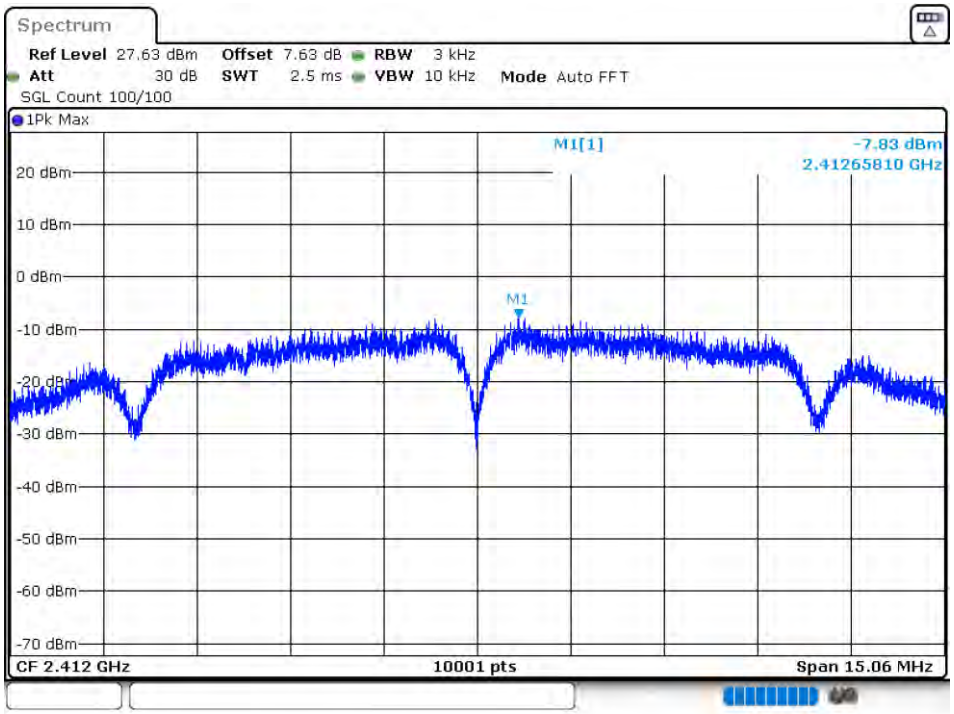
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.440731 GHz	-14.10 dBm		
M2		1	2.43384 GHz	-18.16 dBm		
M3		1	2.46896 GHz	-19.56 dBm		

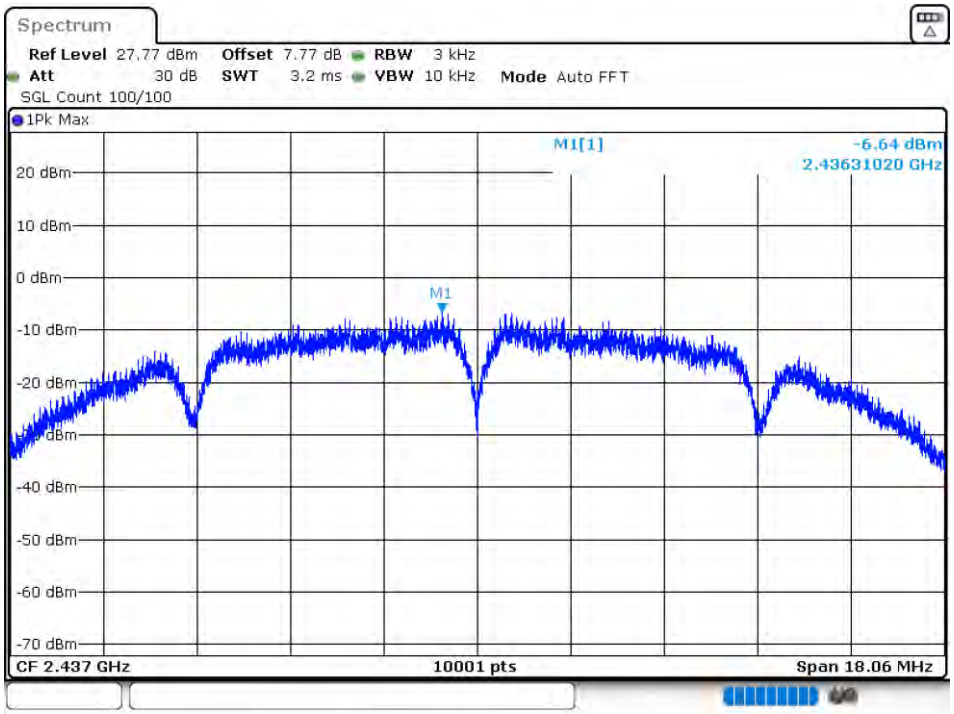
8.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	802.11b	2412	Ant 1	-7.83	8	Pass
NVNT	802.11b	2437	Ant 1	-6.637	8	Pass
NVNT	802.11b	2462	Ant 1	-7.406	8	Pass
NVNT	802.11b	2412	Ant 2	-7.622	8	Pass
NVNT	802.11b	2437	Ant 2	-7.808	8	Pass
NVNT	802.11b	2462	Ant 2	-7.138	8	Pass
NVNT	802.11g	2412	Ant 1	-13.236	8	Pass
NVNT	802.11g	2437	Ant 1	-12.401	8	Pass
NVNT	802.11g	2462	Ant 1	-12.619	8	Pass
NVNT	802.11g	2412	Ant 2	-13.299	8	Pass
NVNT	802.11g	2437	Ant 2	-12.429	8	Pass
NVNT	802.11g	2462	Ant 2	-12.812	8	Pass
NVNT	802.11n(HT20)	2412	Ant 1	-13.418	8	Pass
NVNT	802.11n(HT20)	2437	Ant 1	-12.468	8	Pass
NVNT	802.11n(HT20)	2462	Ant 1	-12.859	8	Pass
NVNT	802.11n(HT20)	2412	Ant 2	-13.492	8	Pass
NVNT	802.11n(HT20)	2437	Ant 2	-12.388	8	Pass
NVNT	802.11n(HT20)	2462	Ant 2	-14.211	8	Pass
NVNT	802.11n(HT40)	2422	Ant 1	-18.732	8	Pass
NVNT	802.11n(HT40)	2437	Ant 1	-19.09	8	Pass
NVNT	802.11n(HT40)	2452	Ant 1	-18.308	8	Pass
NVNT	802.11n(HT40)	2422	Ant 2	-18.498	8	Pass
NVNT	802.11n(HT40)	2437	Ant 2	-17.551	8	Pass
NVNT	802.11n(HT40)	2452	Ant 2	-18.294	8	Pass

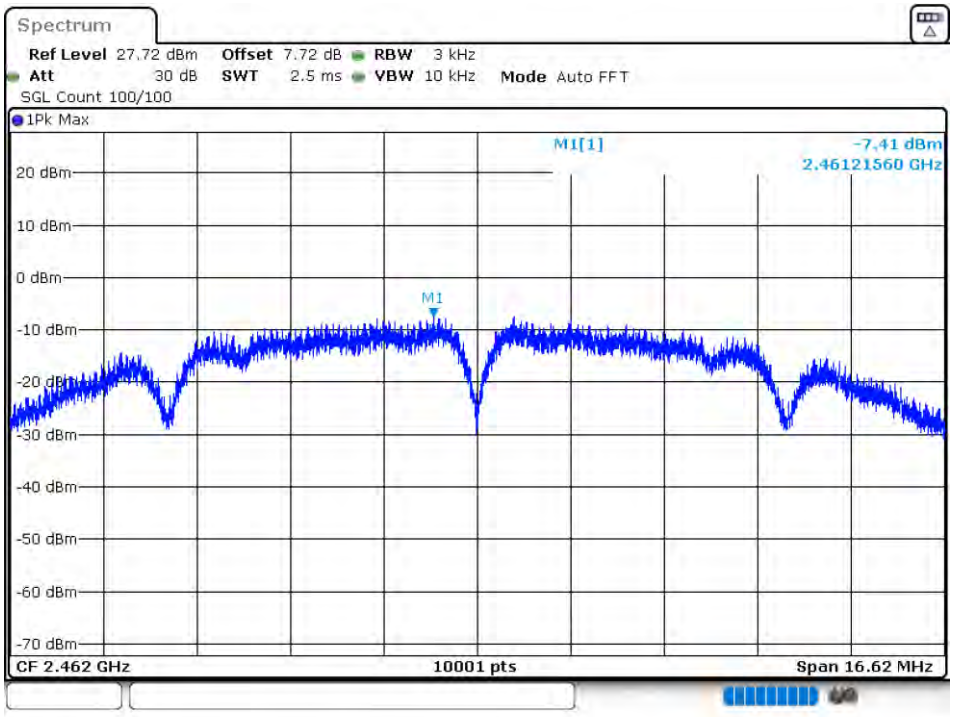
PSD NVNT 802.11b 2412MHz Ant 1



PSD NVNT 802.11b 2437MHz Ant 1



PSD NVNT 802.11b 2462MHz Ant 1



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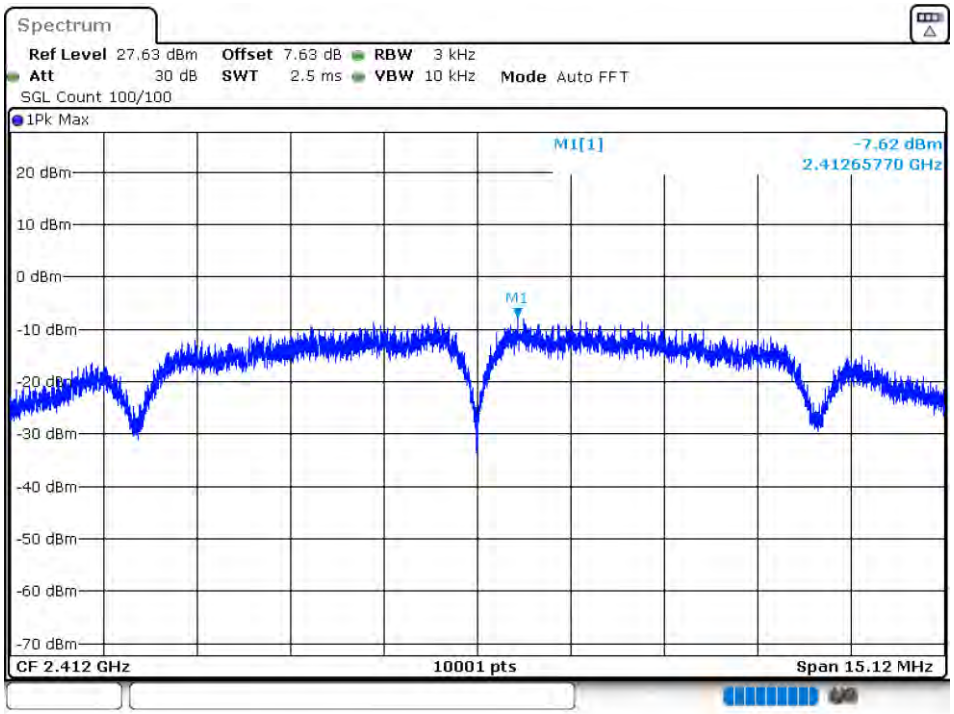

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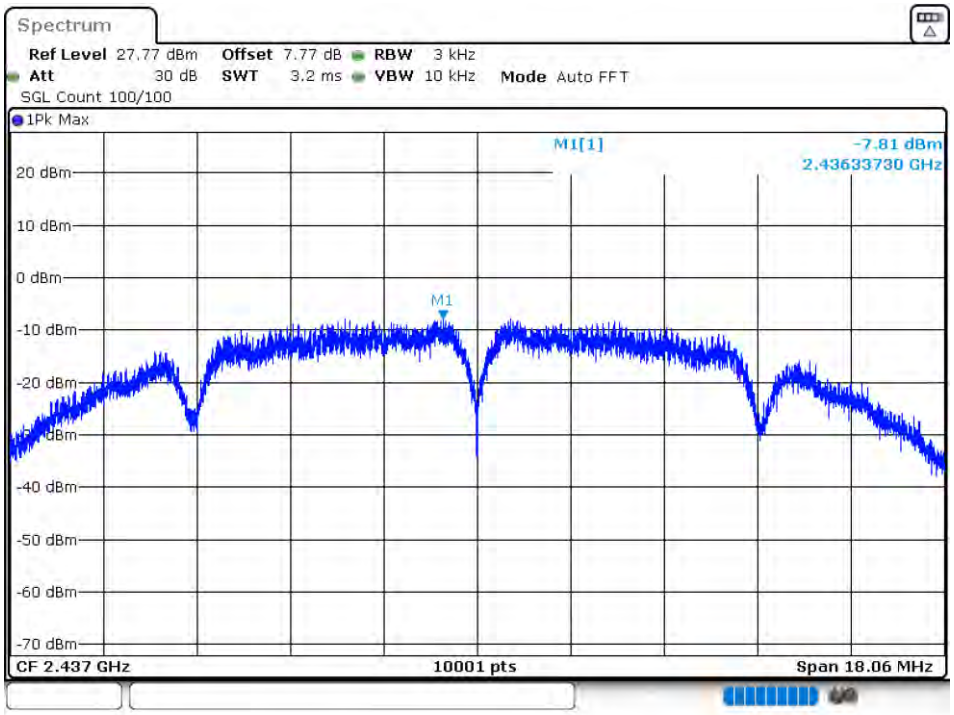

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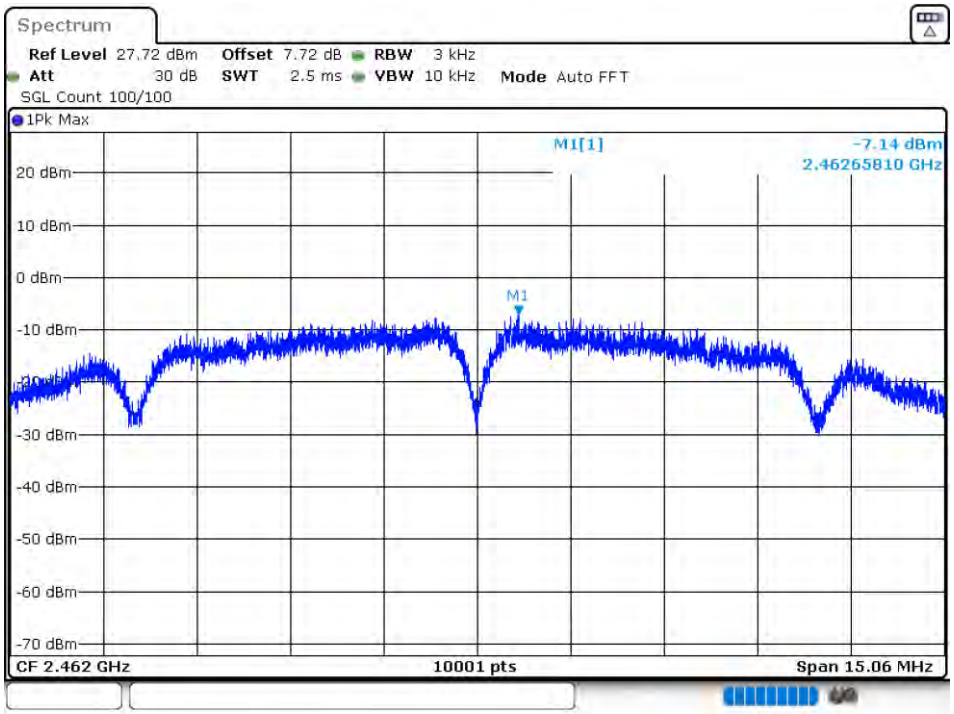

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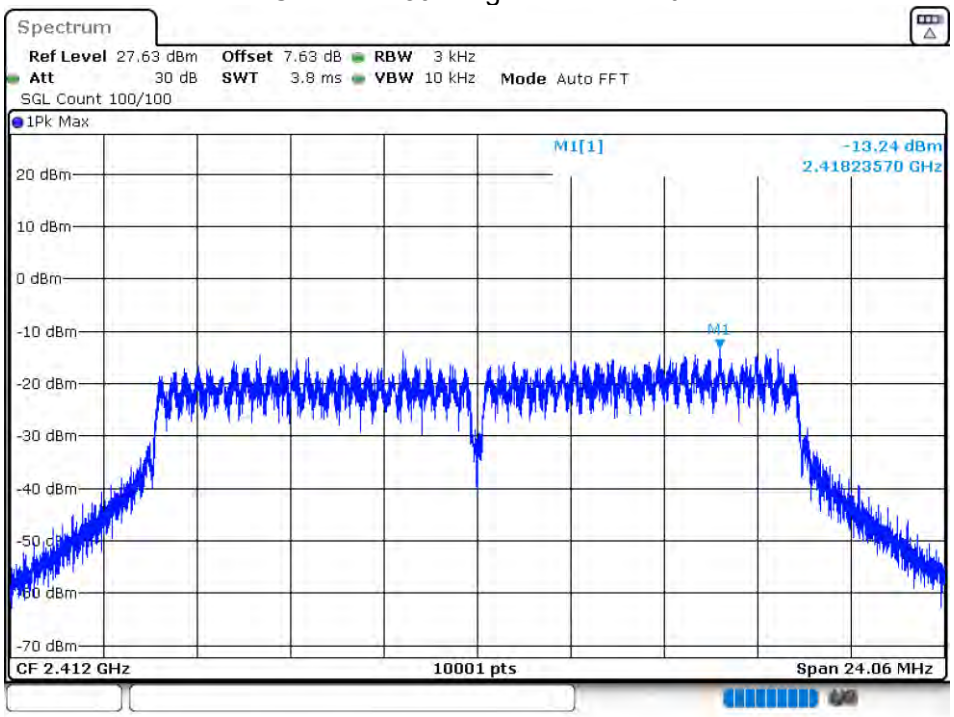

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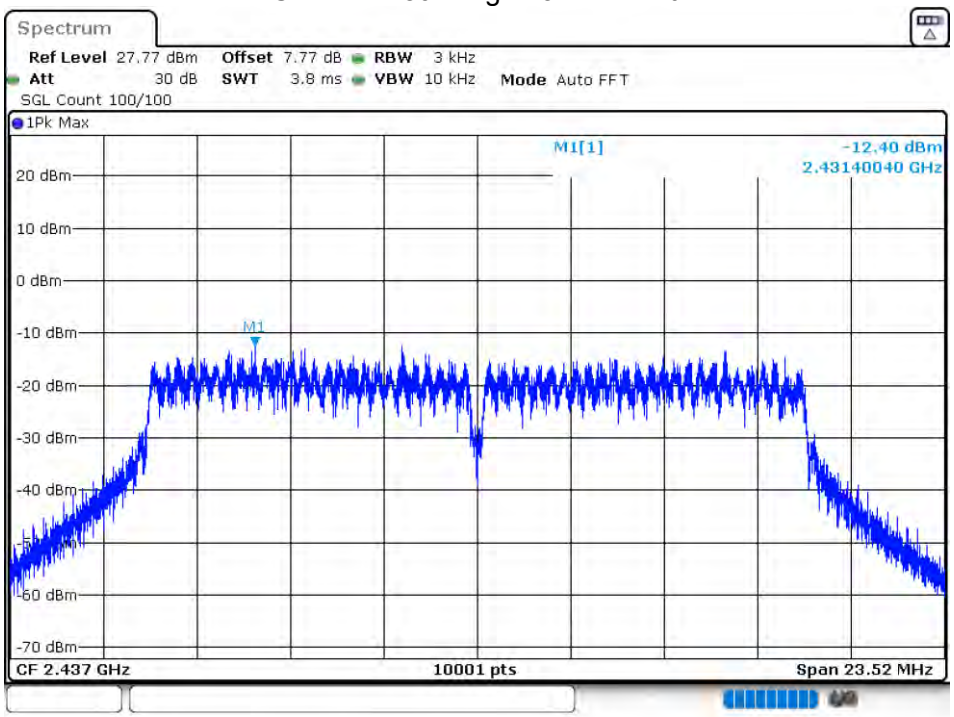

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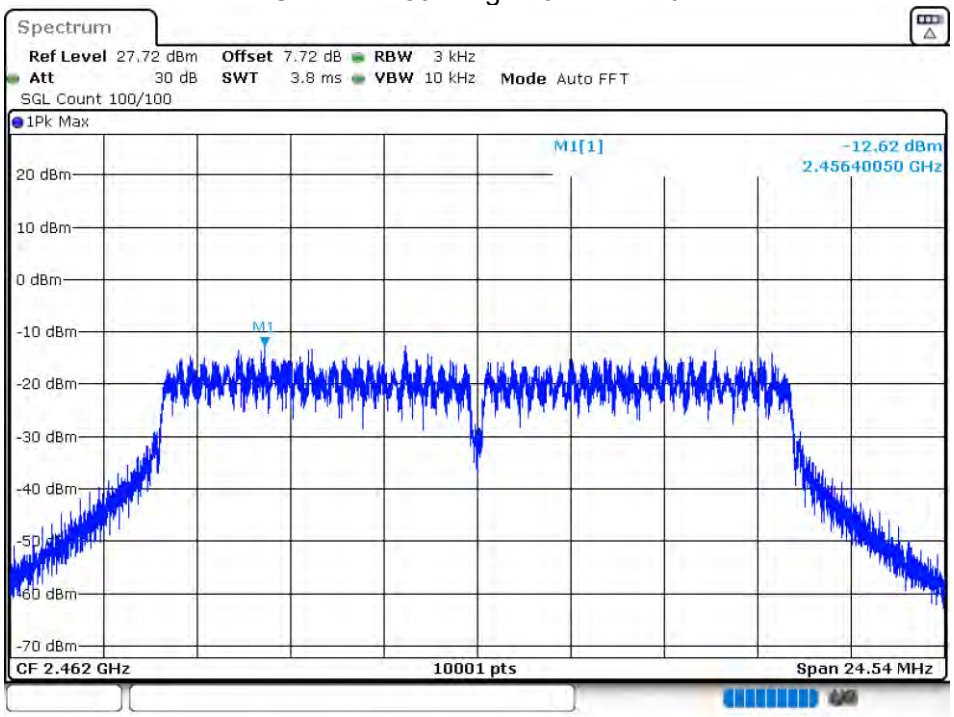

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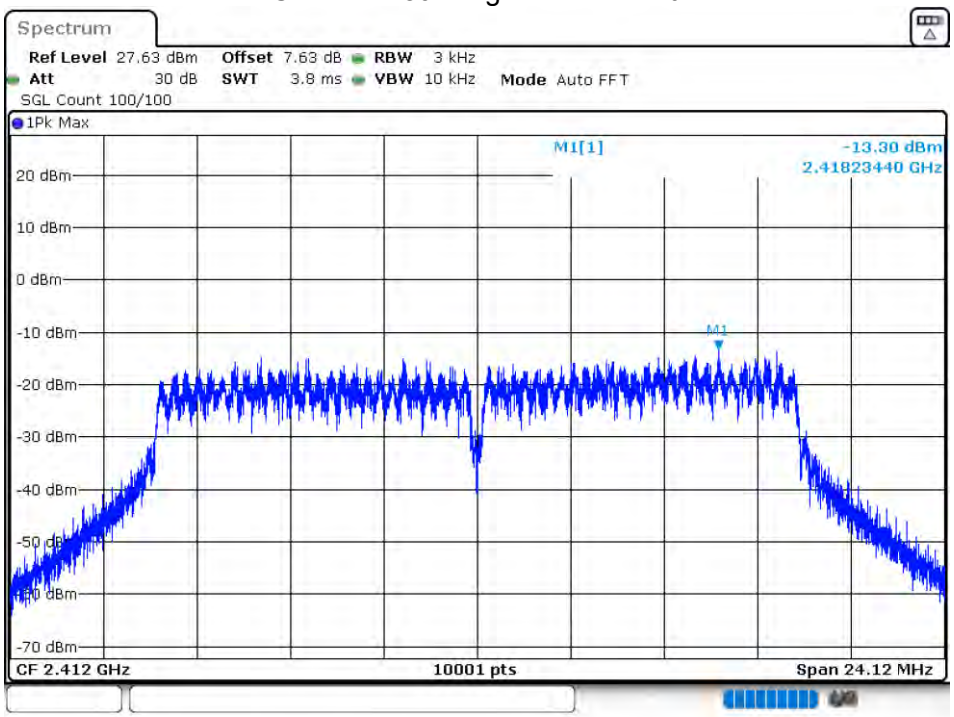

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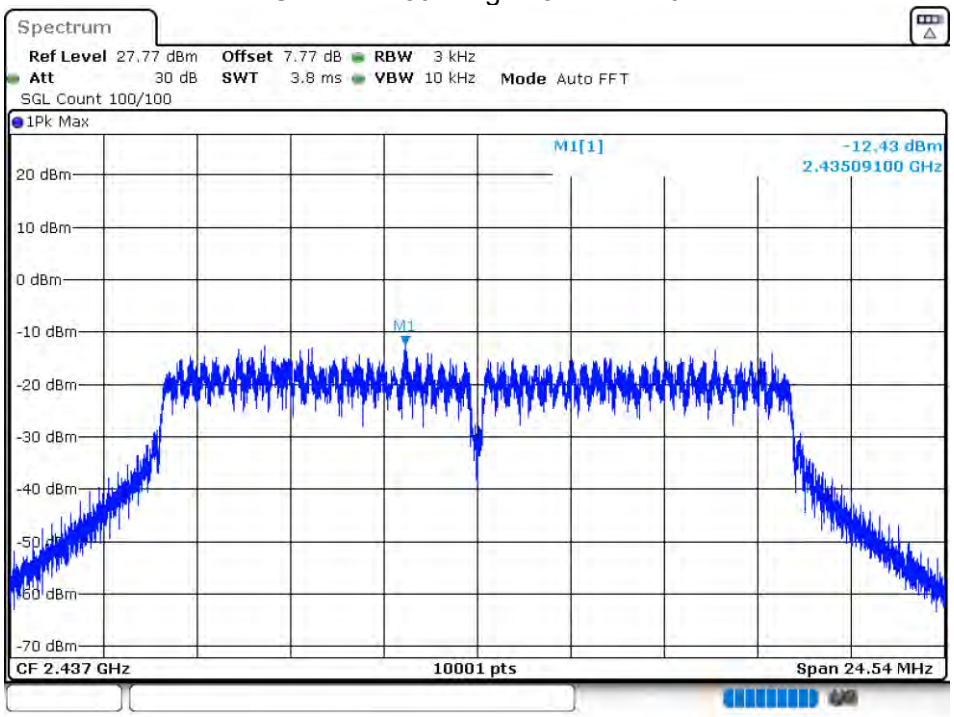
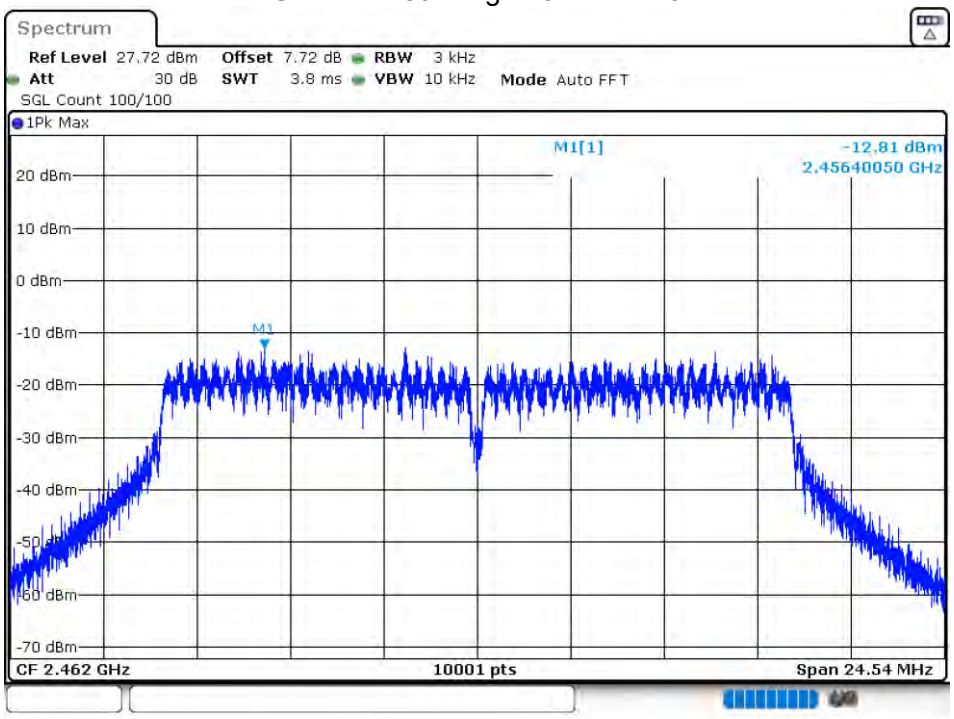
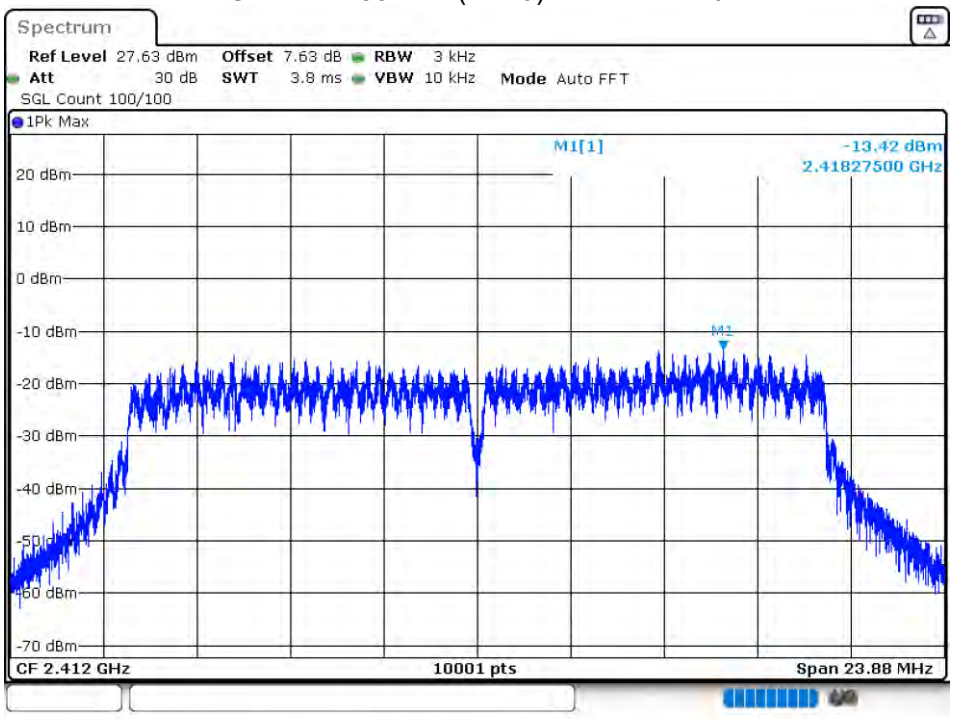


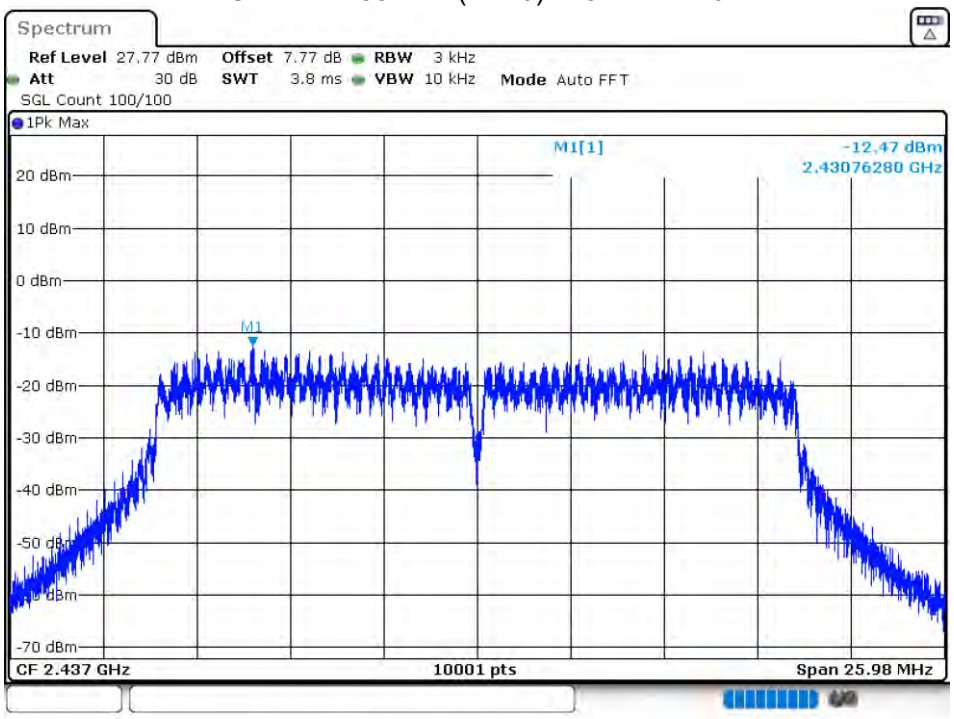
PSD NVNT 802.11g 2462MHz Ant 2



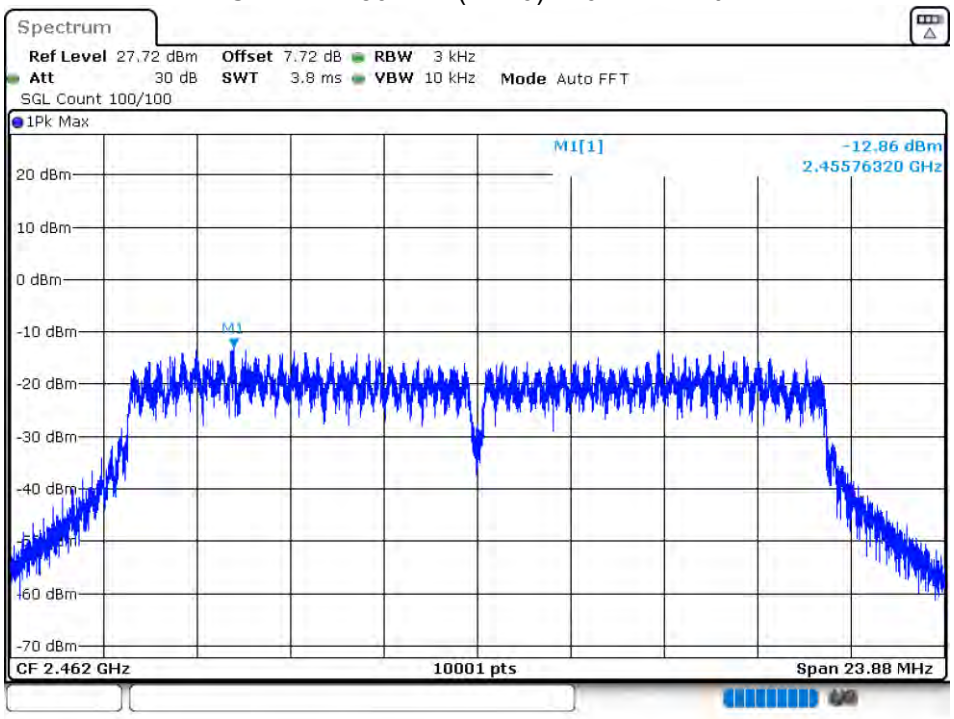
PSD NVNT 802.11n(HT20) 2412MHz Ant 1



PSD NVNT 802.11n(HT20) 2437MHz Ant 1



PSD NVNT 802.11n(HT20) 2462MHz Ant 1



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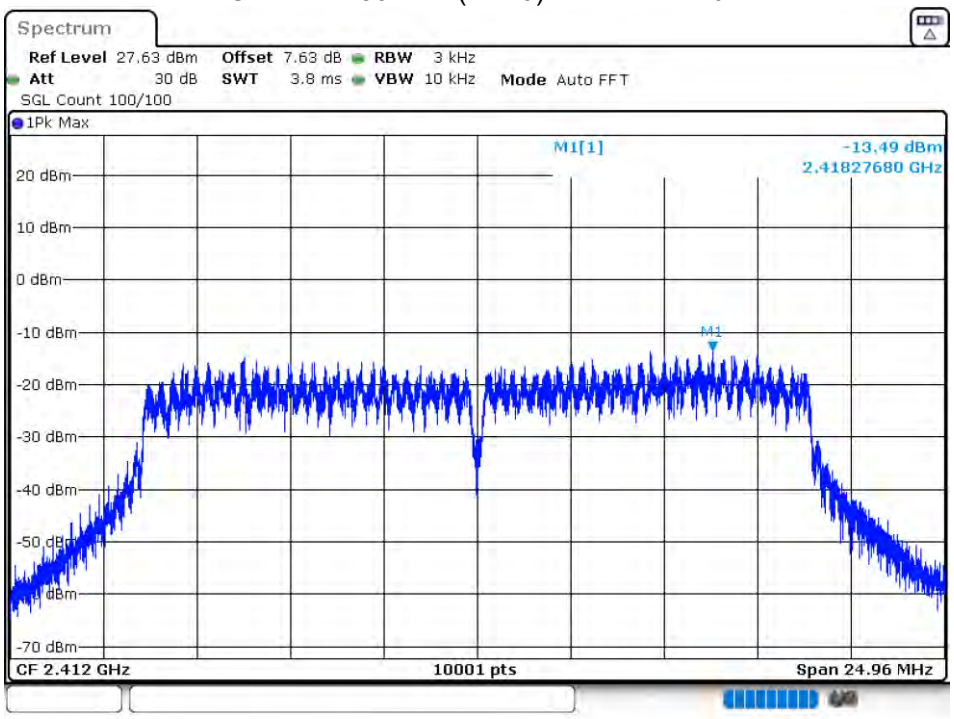
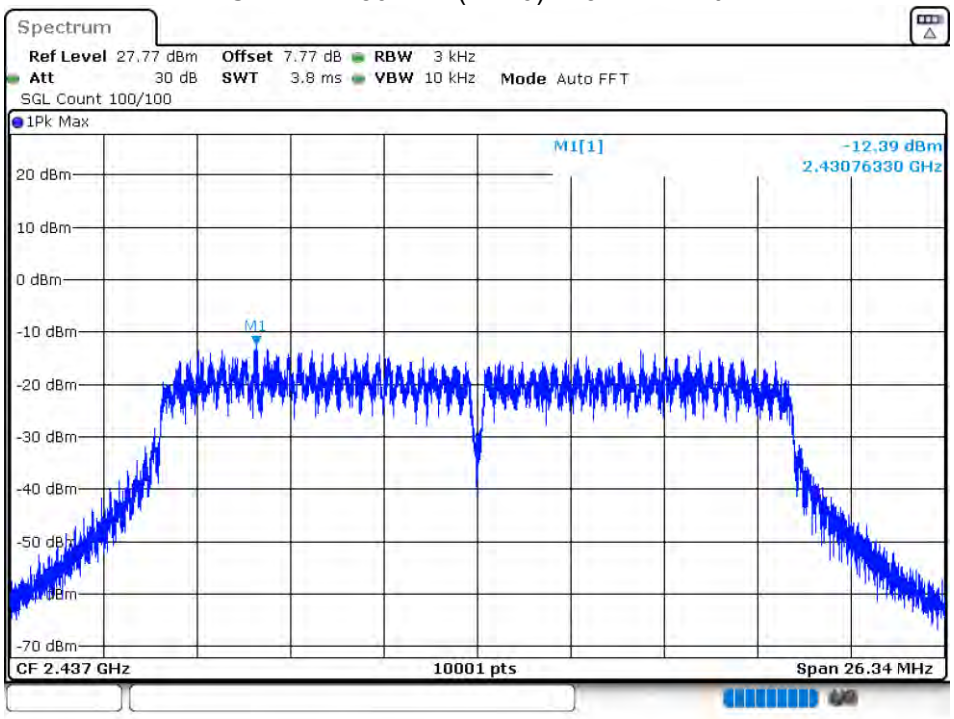
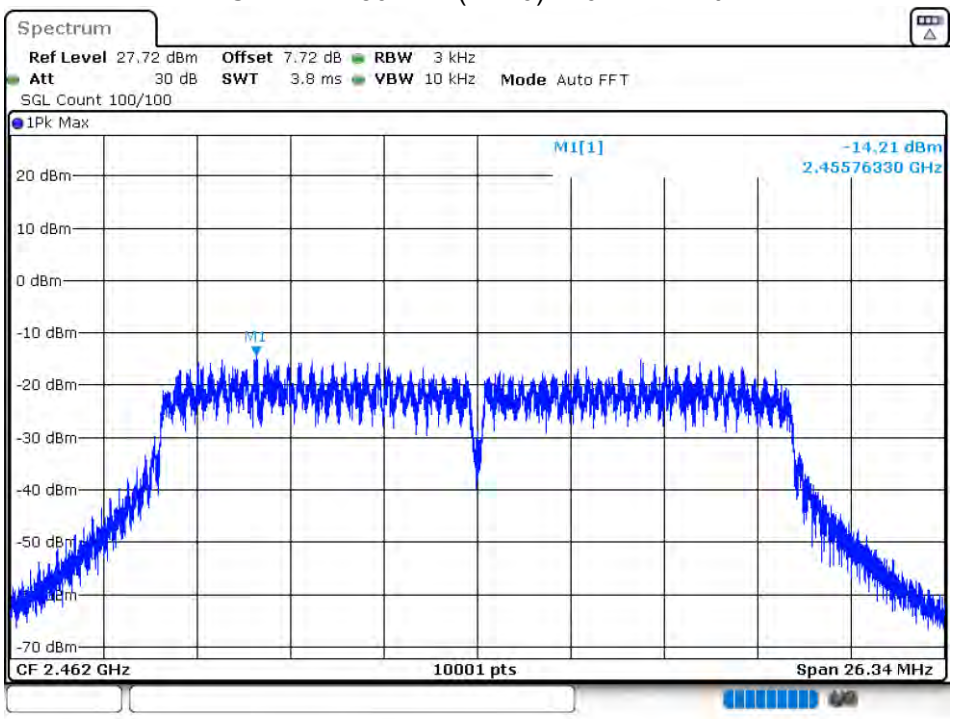


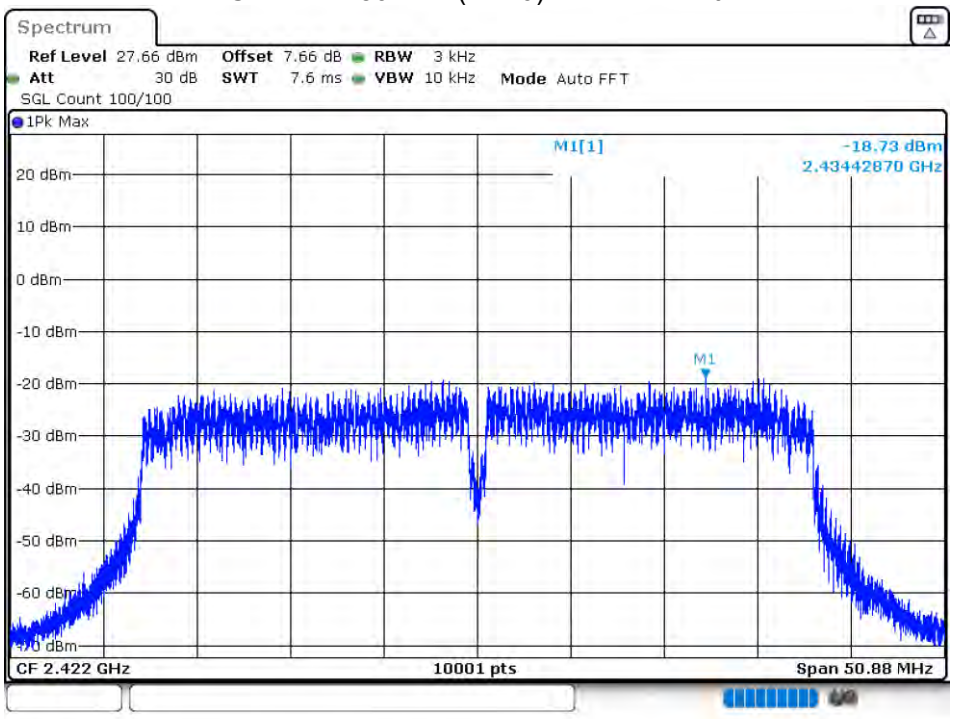
PSD NVNT 802.11n(HT20) 2437MHz Ant 2



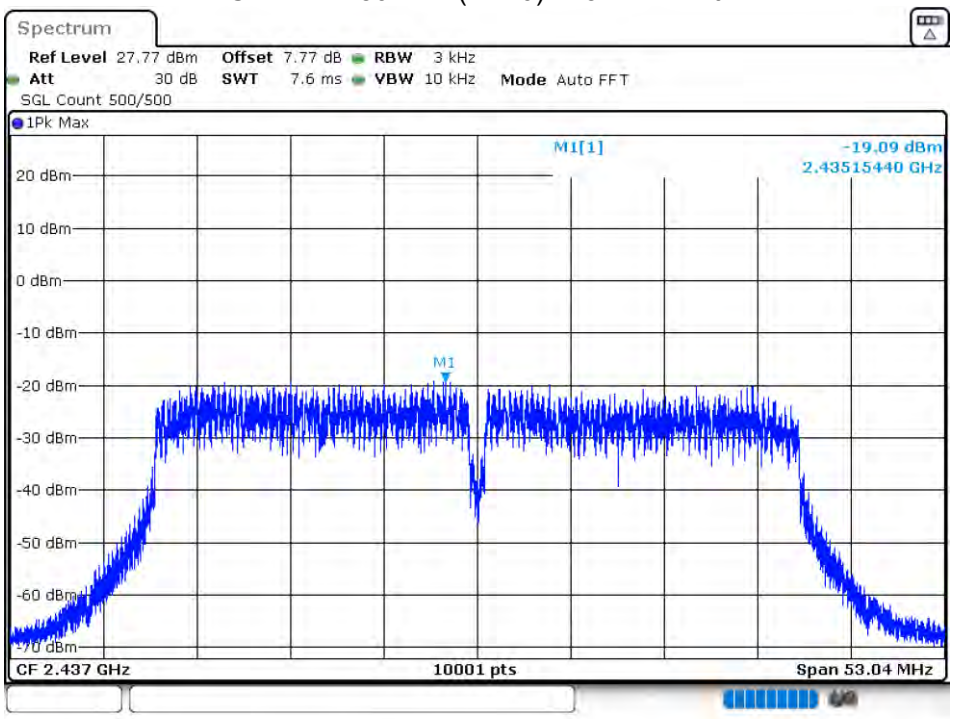
PSD NVNT 802.11n(HT20) 2462MHz Ant 2



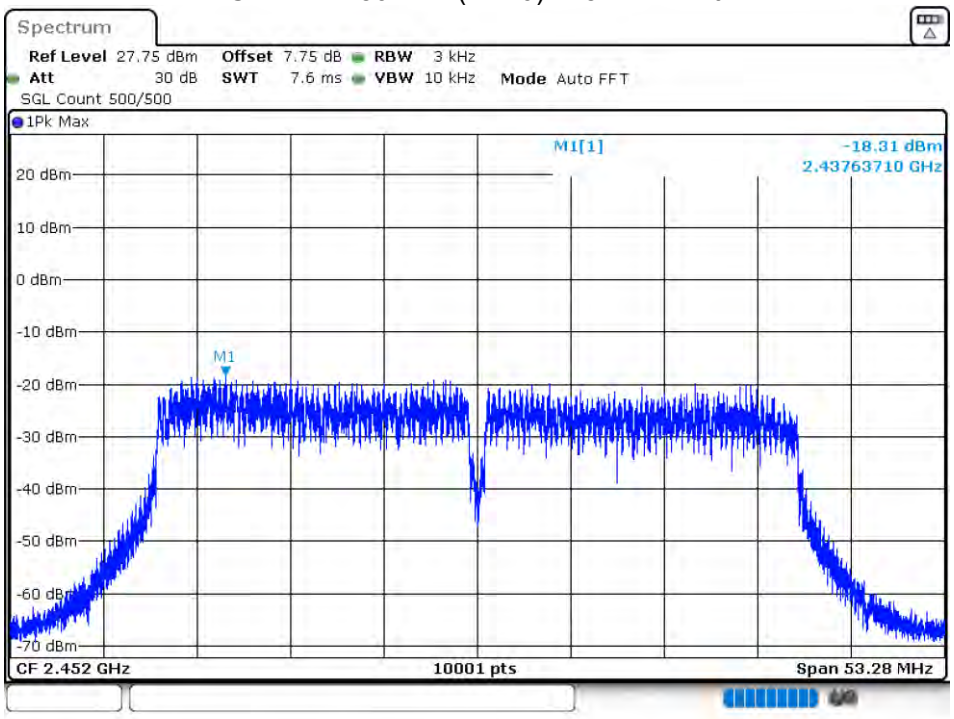
PSD NVNT 802.11n(HT40) 2422MHz Ant 1



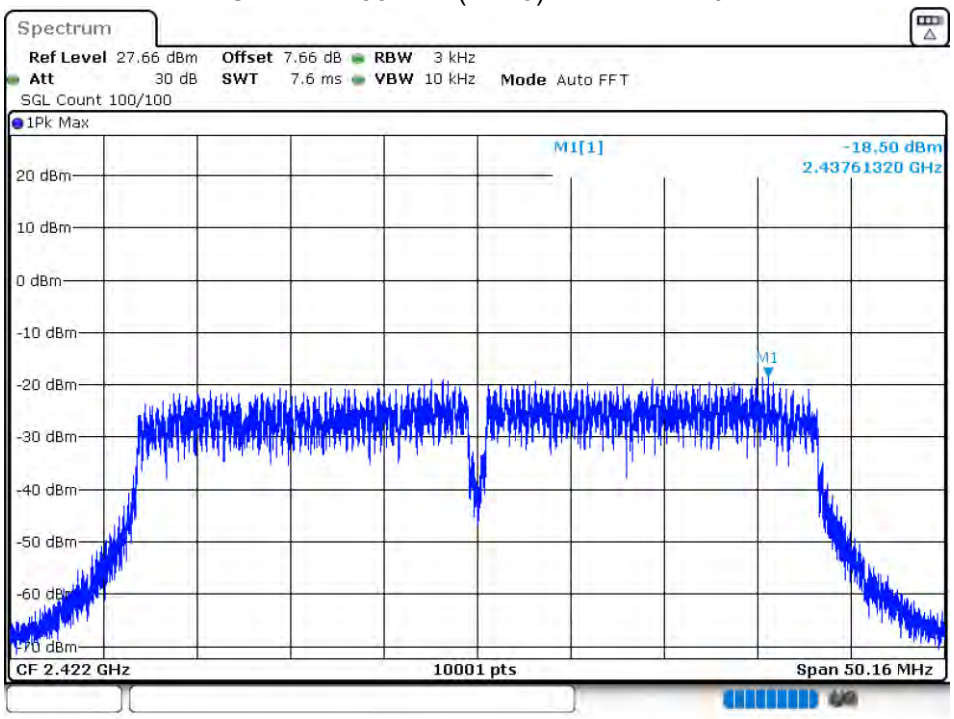
PSD NVNT 802.11n(HT40) 2437MHz Ant 1



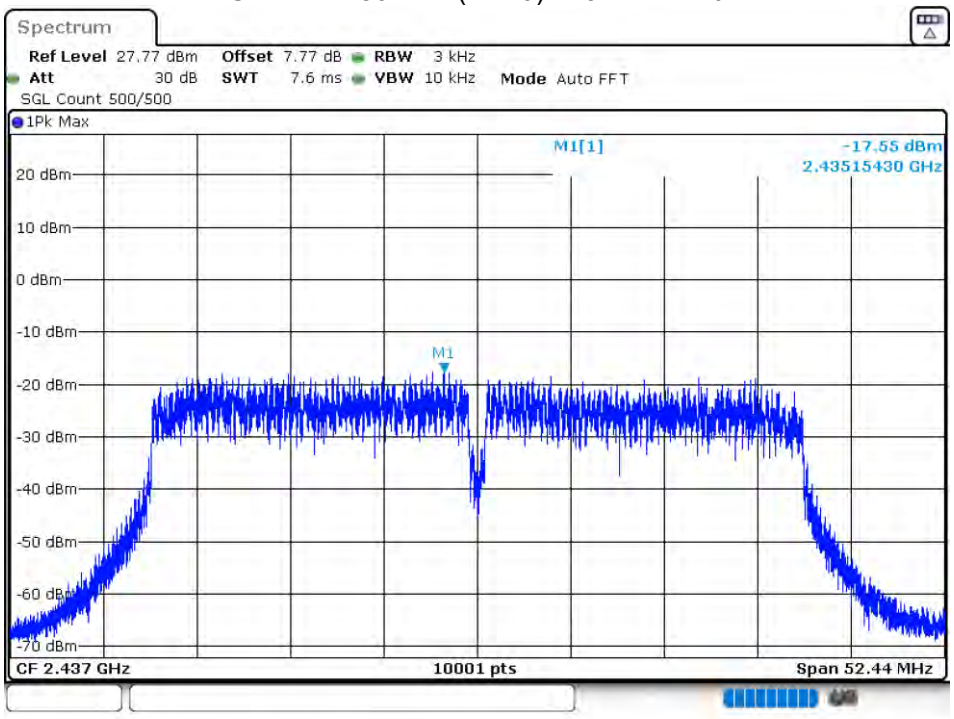
PSD NVNT 802.11n(HT40) 2452MHz Ant 1



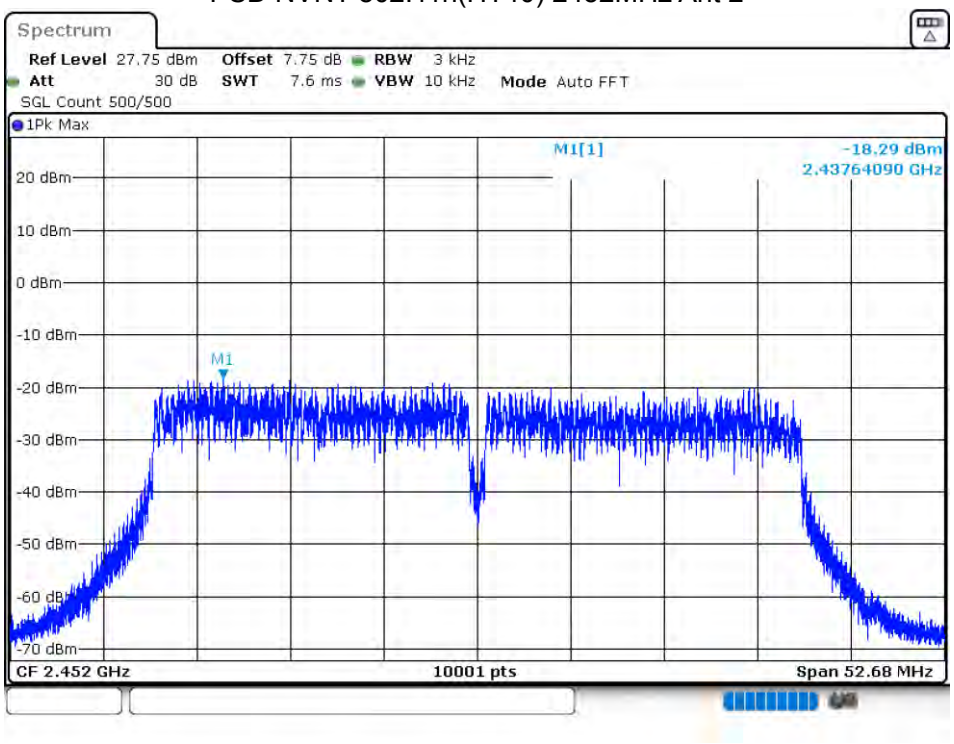
PSD NVNT 802.11n(HT40) 2422MHz Ant 2



PSD NVNT 802.11n(HT40) 2437MHz Ant 2



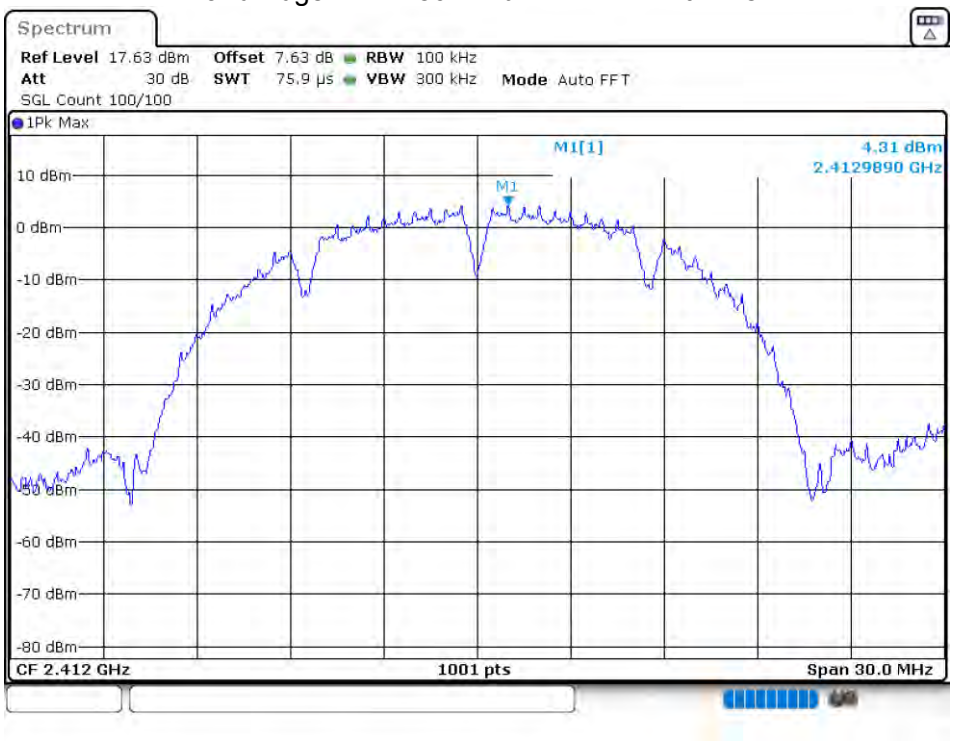
PSD NVNT 802.11n(HT40) 2452MHz Ant 2



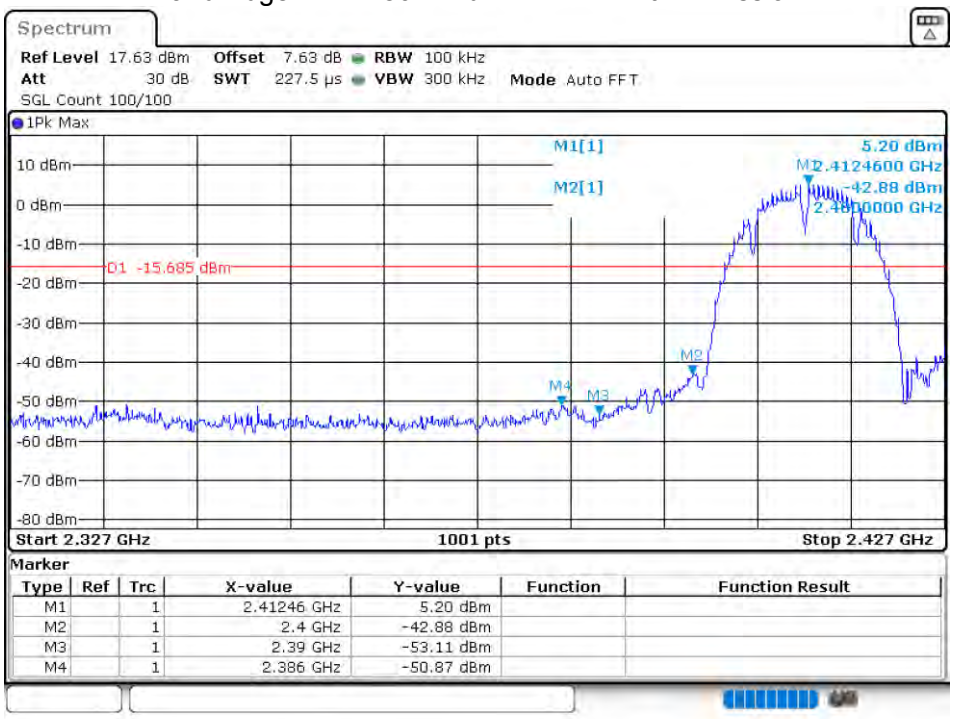
8.5 BAND EDGE

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11b	2412	Ant 1	-55.17	-20	Pass
NVNT	802.11b	2462	Ant 1	-54.24	-20	Pass
NVNT	802.11b	2412	Ant 2	-55.33	-20	Pass
NVNT	802.11b	2462	Ant 2	-55.32	-20	Pass
NVNT	802.11g	2412	Ant 1	-53.28	-20	Pass
NVNT	802.11g	2462	Ant 1	-51.72	-20	Pass
NVNT	802.11g	2412	Ant 2	-51.92	-20	Pass
NVNT	802.11g	2462	Ant 2	-49.42	-20	Pass
NVNT	802.11n(HT20)	2412	Ant 1	-50.51	-20	Pass
NVNT	802.11n(HT20)	2462	Ant 1	-49.45	-20	Pass
NVNT	802.11n(HT20)	2412	Ant 2	-49.28	-20	Pass
NVNT	802.11n(HT20)	2462	Ant 2	-49.58	-20	Pass
NVNT	802.11n(HT40)	2422	Ant 1	-47.53	-20	Pass
NVNT	802.11n(HT40)	2452	Ant 1	-47.16	-20	Pass
NVNT	802.11n(HT40)	2422	Ant 2	-48.76	-20	Pass
NVNT	802.11n(HT40)	2452	Ant 2	-48.46	-20	Pass

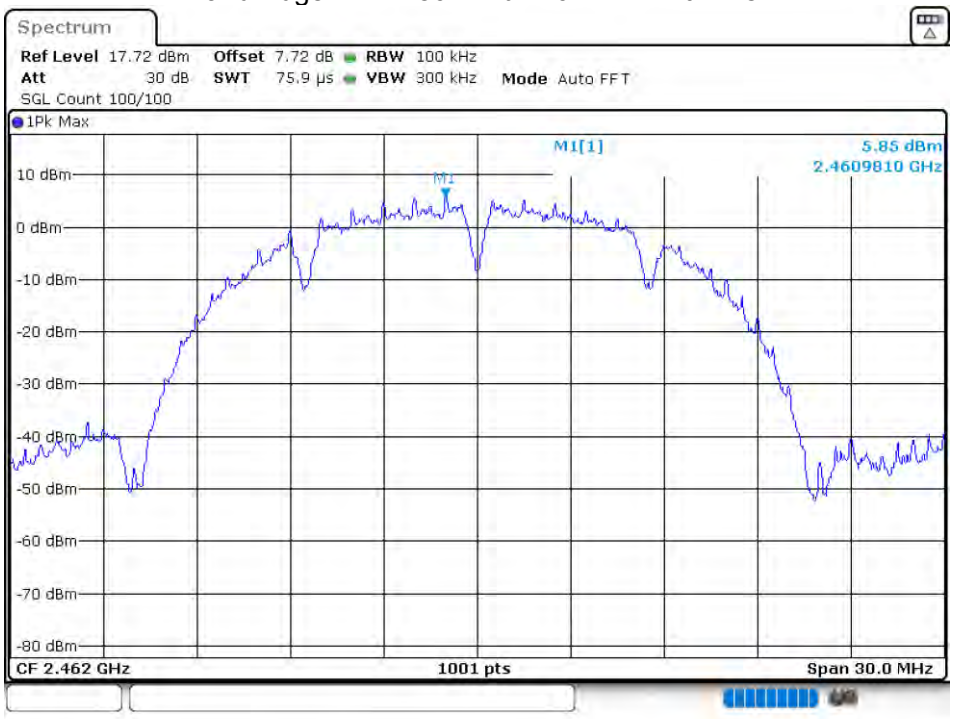
Band Edge NVNT 802.11b 2412MHz Ant 1 Ref



Band Edge NVNT 802.11b 2412MHz Ant 1 Emission

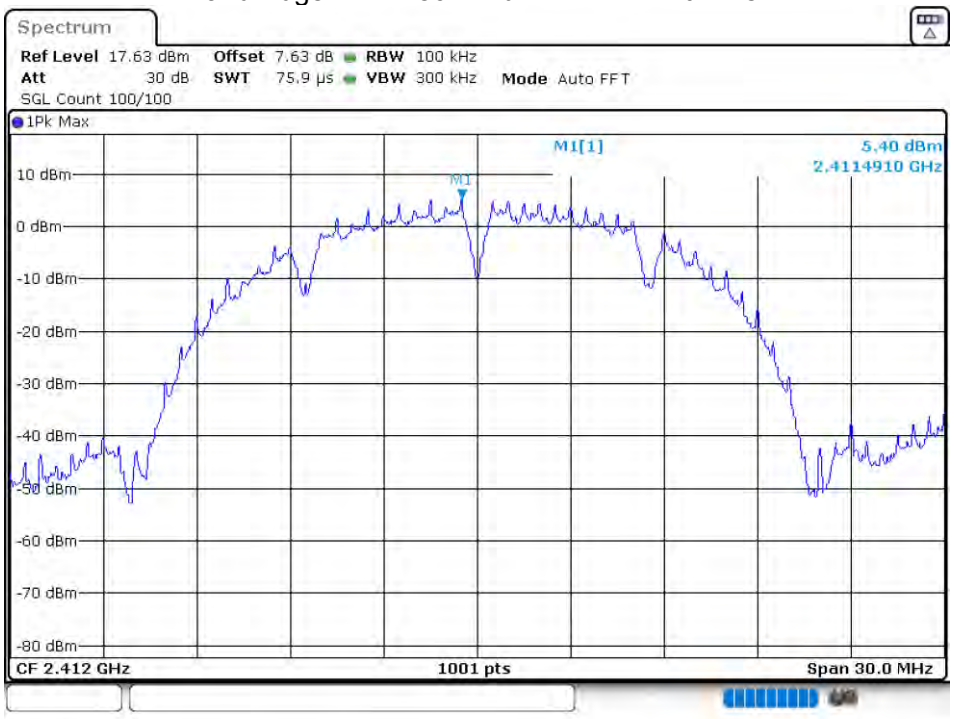


Band Edge NVNT 802.11b 2462MHz Ant 1 Ref

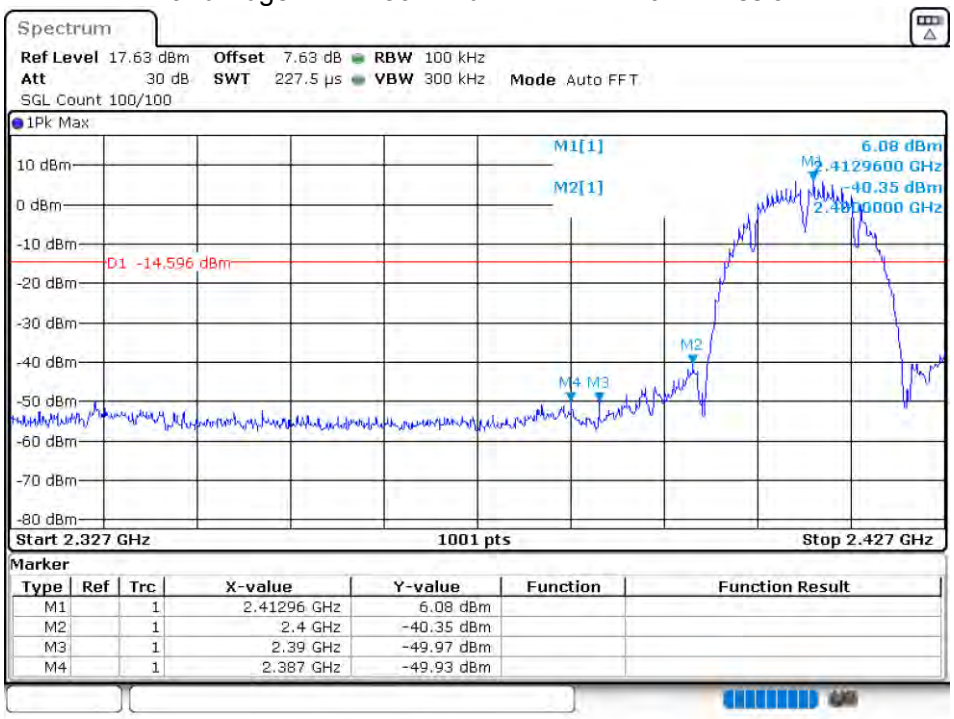


Band Edge NVNT 802.11b 2462MHz Ant 1 Emission

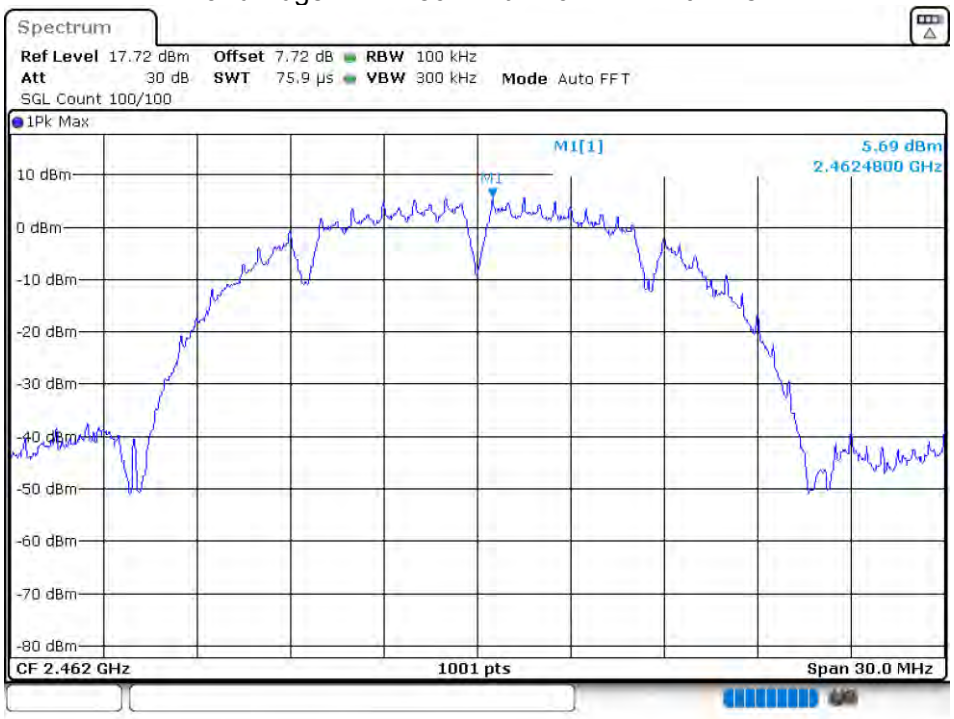
Band Edge NVNT 802.11b 2412MHz Ant 2 Ref



Band Edge NVNT 802.11b 2412MHz Ant 2 Emission

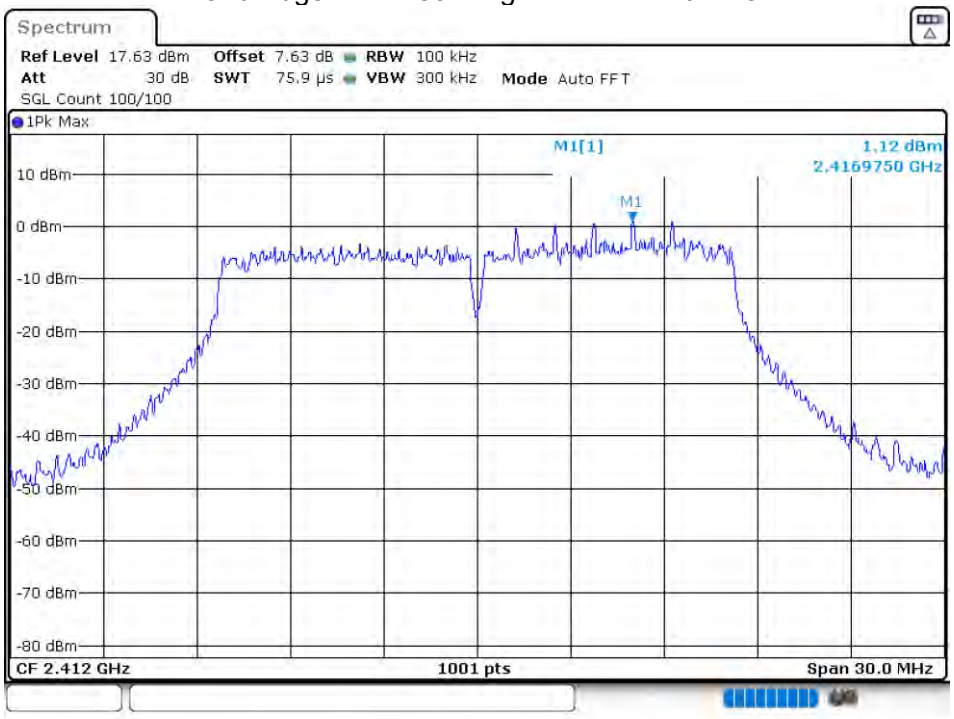


Band Edge NVNT 802.11b 2462MHz Ant 2 Ref

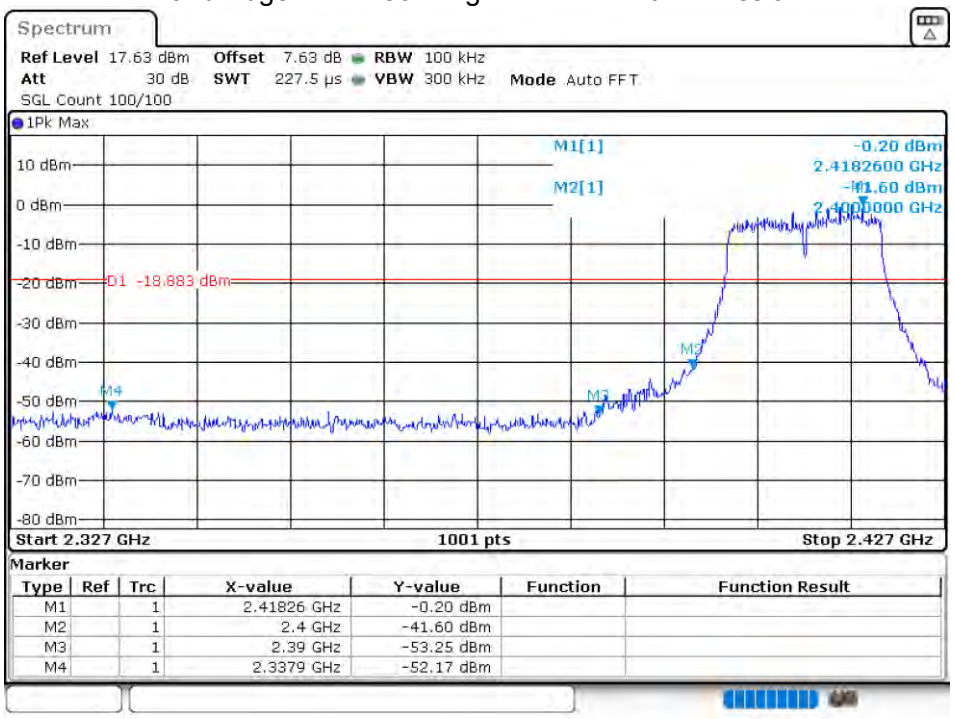


Band Edge NVNT 802.11b 2462MHz Ant 2 Emission

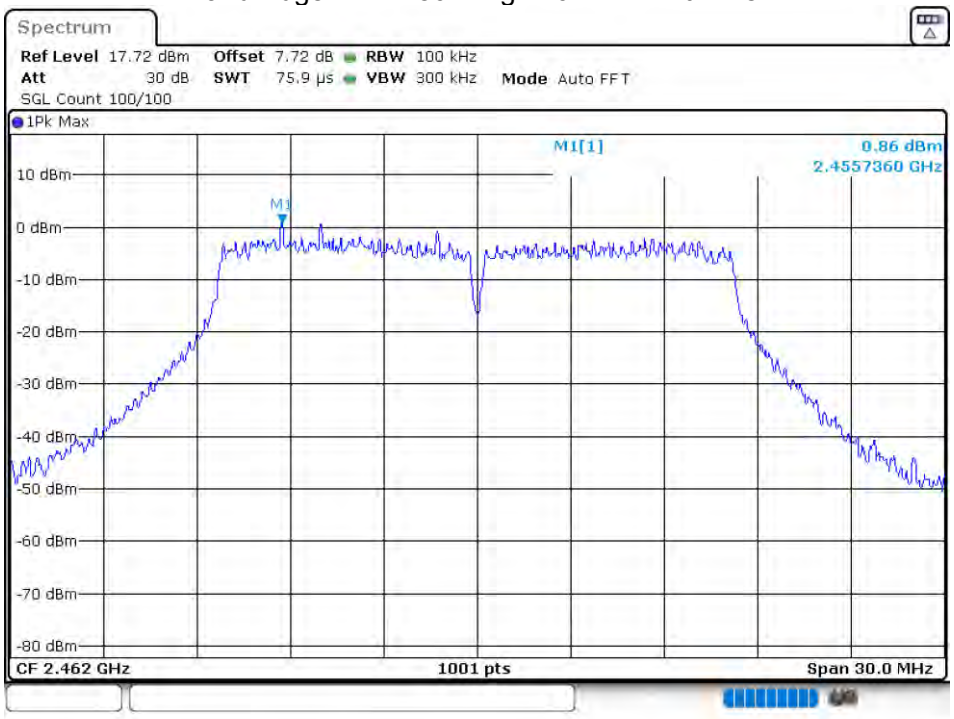
Band Edge NVNT 802.11g 2412MHz Ant 1 Ref



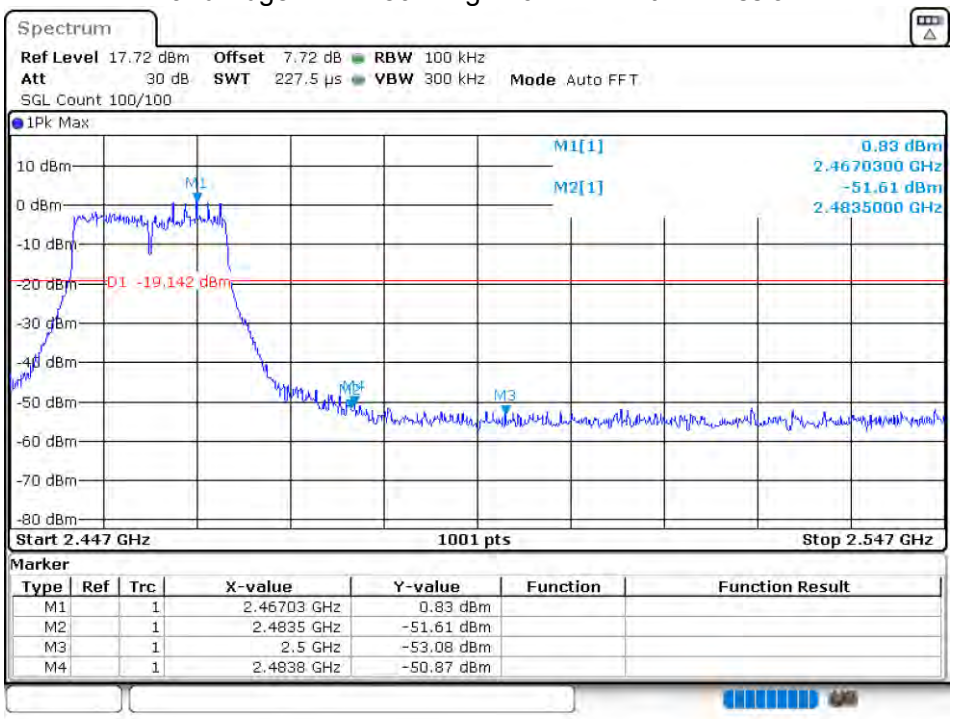
Band Edge NVNT 802.11g 2412MHz Ant 1 Emission



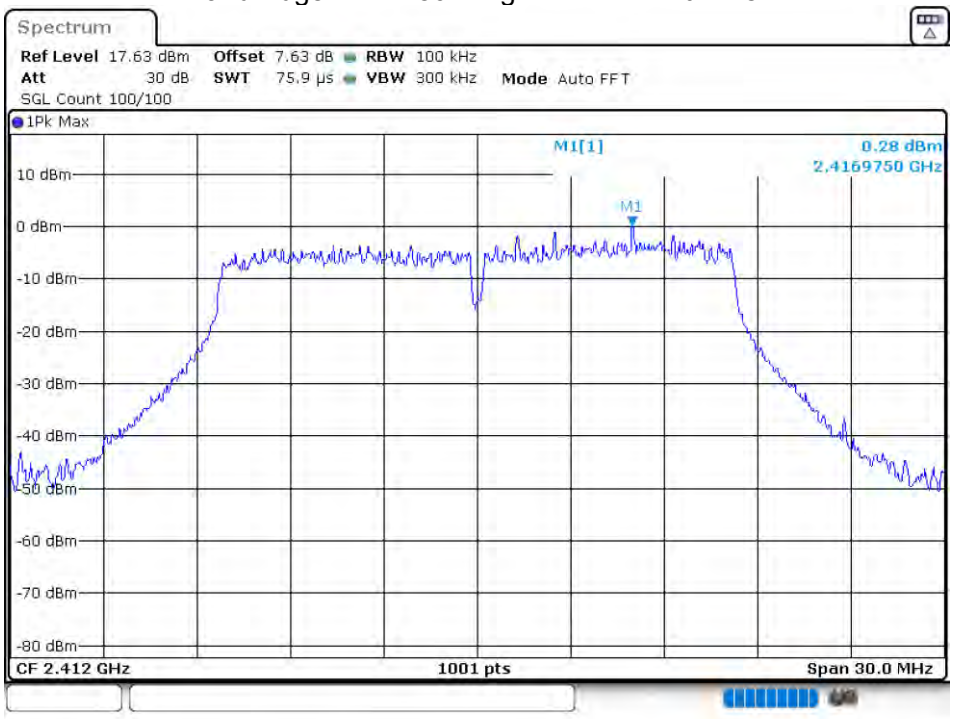
Band Edge NVNT 802.11g 2462MHz Ant 1 Ref



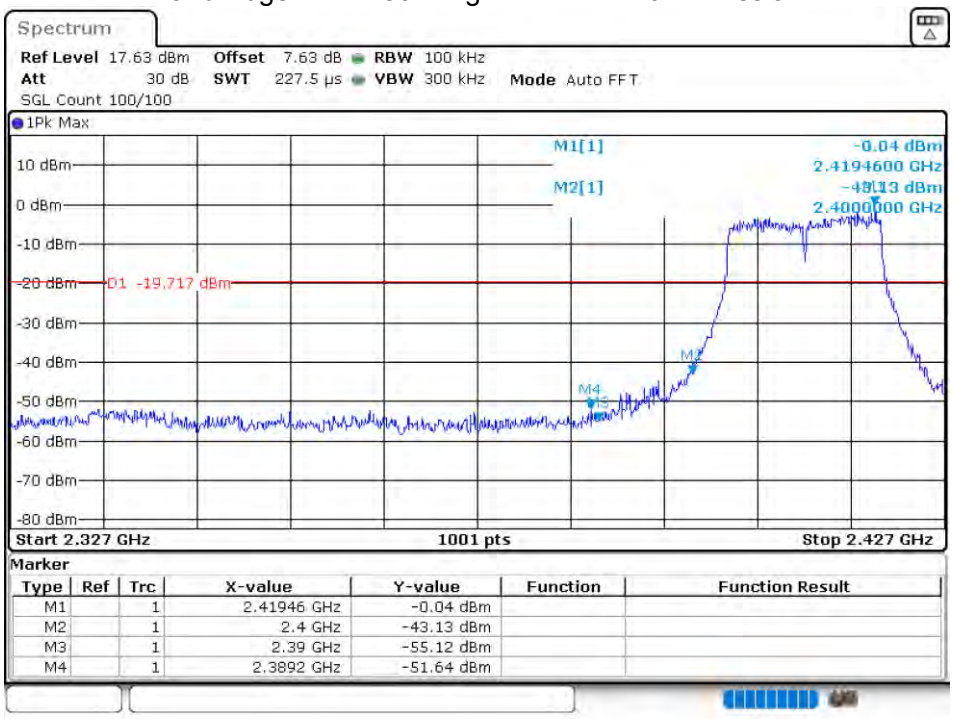
Band Edge NVNT 802.11g 2462MHz Ant 1 Emission



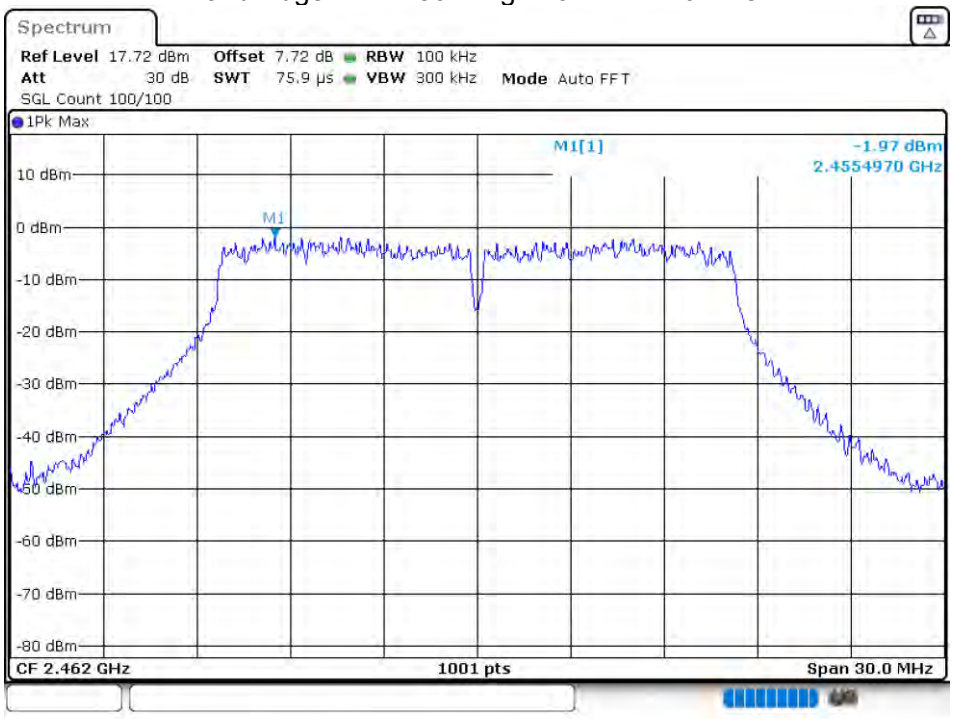
Band Edge NVNT 802.11g 2412MHz Ant 2 Ref



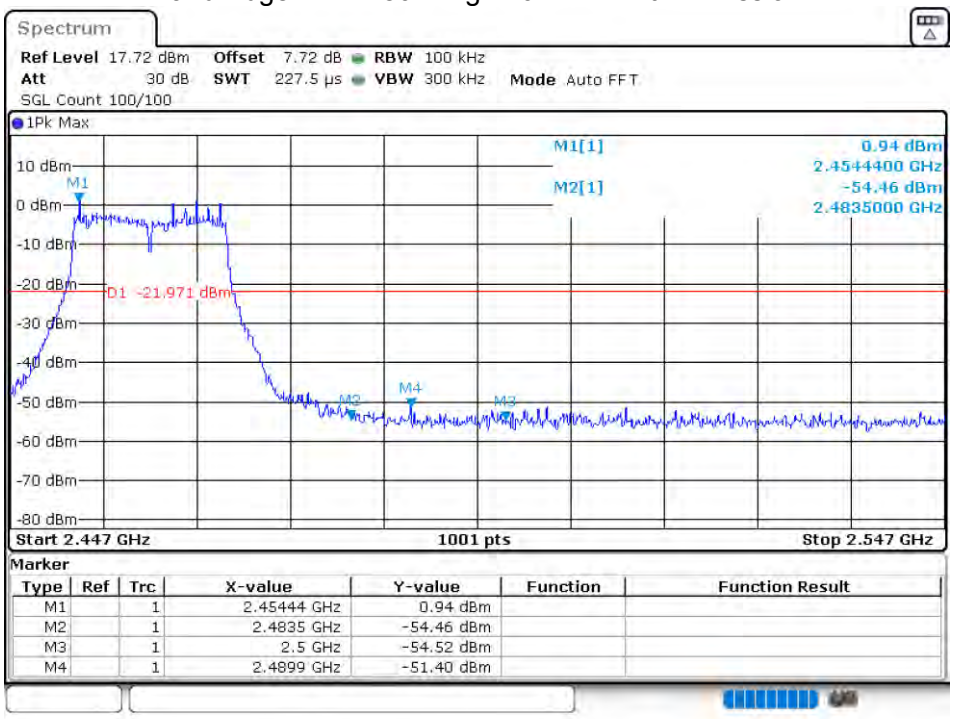
Band Edge NVNT 802.11g 2412MHz Ant 2 Emission



Band Edge NVNT 802.11g 2462MHz Ant 2 Ref



Band Edge NVNT 802.11g 2462MHz Ant 2 Emission



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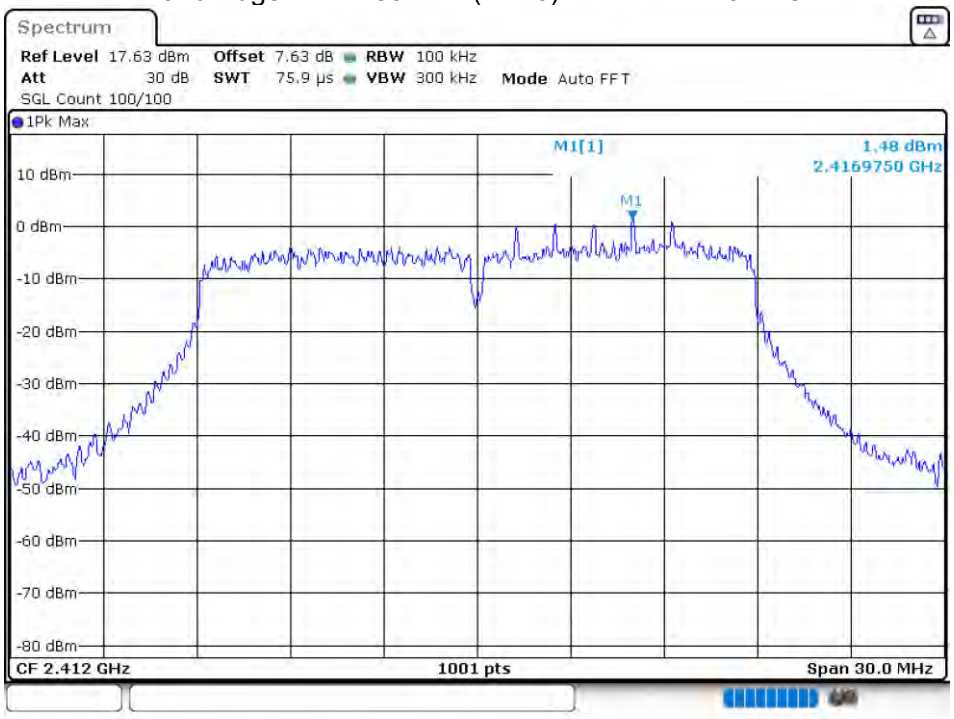
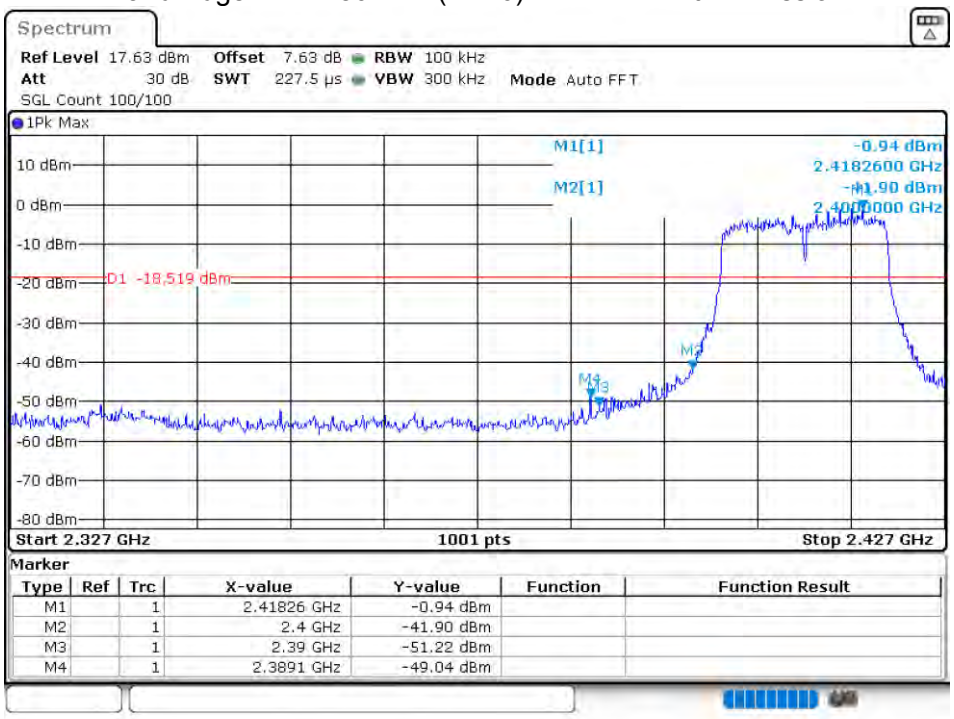
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45444 GHz	0.94 dBm		
M2		1	2.4835 GHz	-54.46 dBm		
M3		1	2.5 GHz	-54.52 dBm		
M4		1	2.4899 GHz	-51.40 dBm		

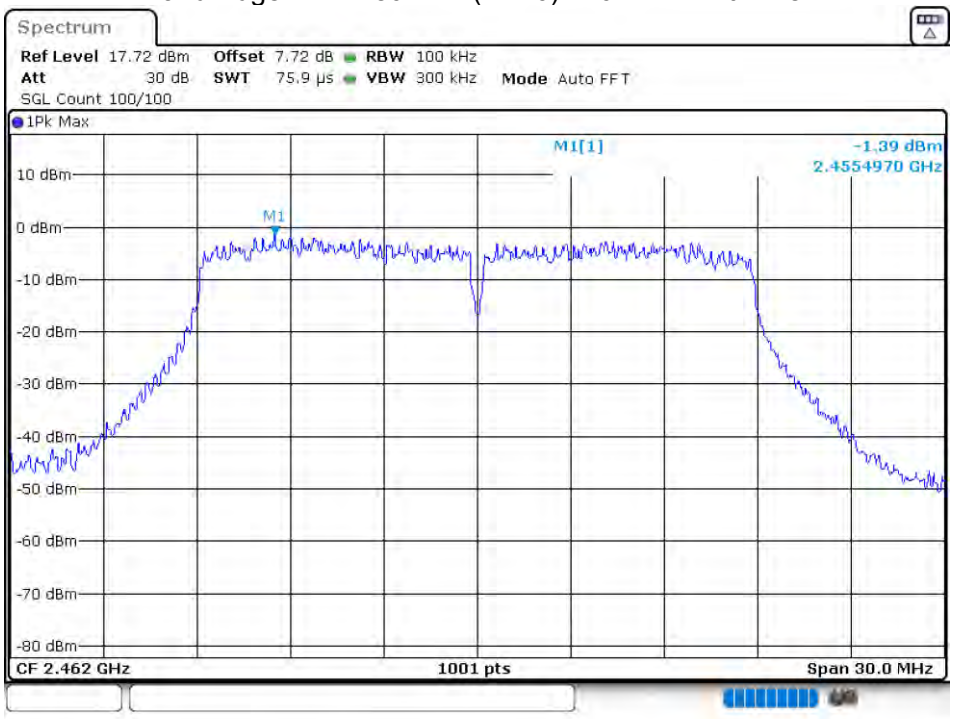
Band Edge NVNT 802.11n(HT20) 2412MHz Ant 1 Ref



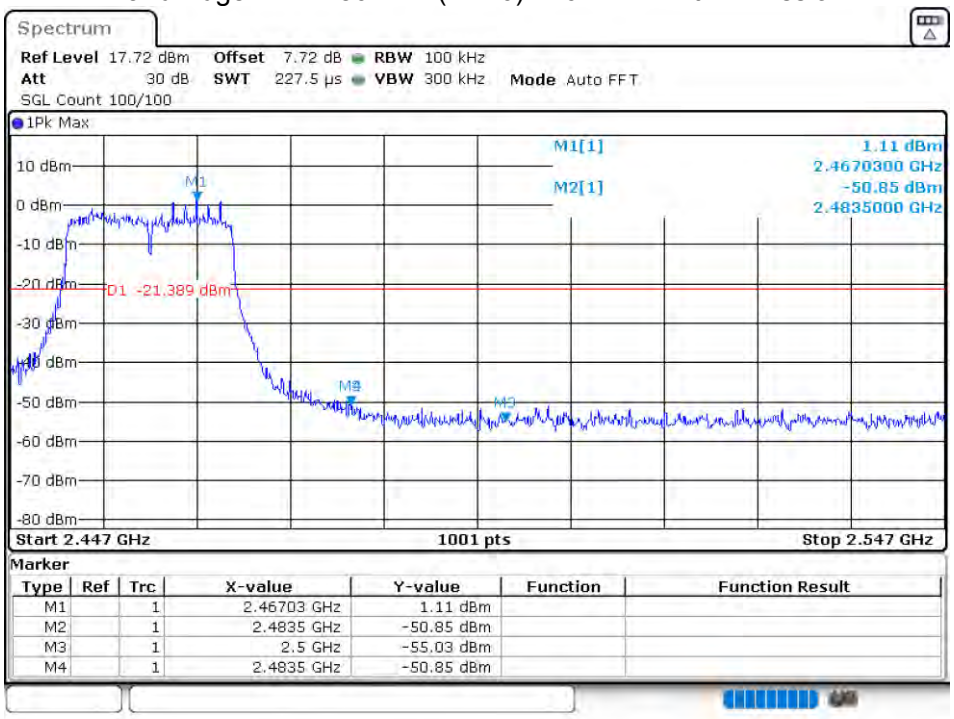
Band Edge NVNT 802.11n(HT20) 2412MHz Ant 1 Emission



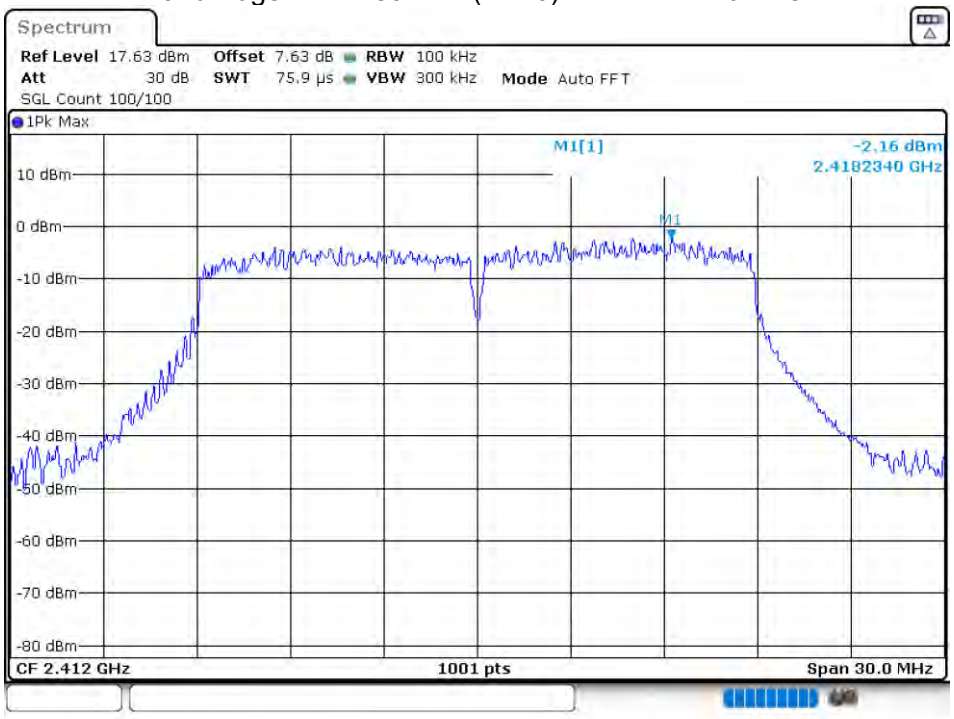
Band Edge NVNT 802.11n(HT20) 2462MHz Ant 1 Ref



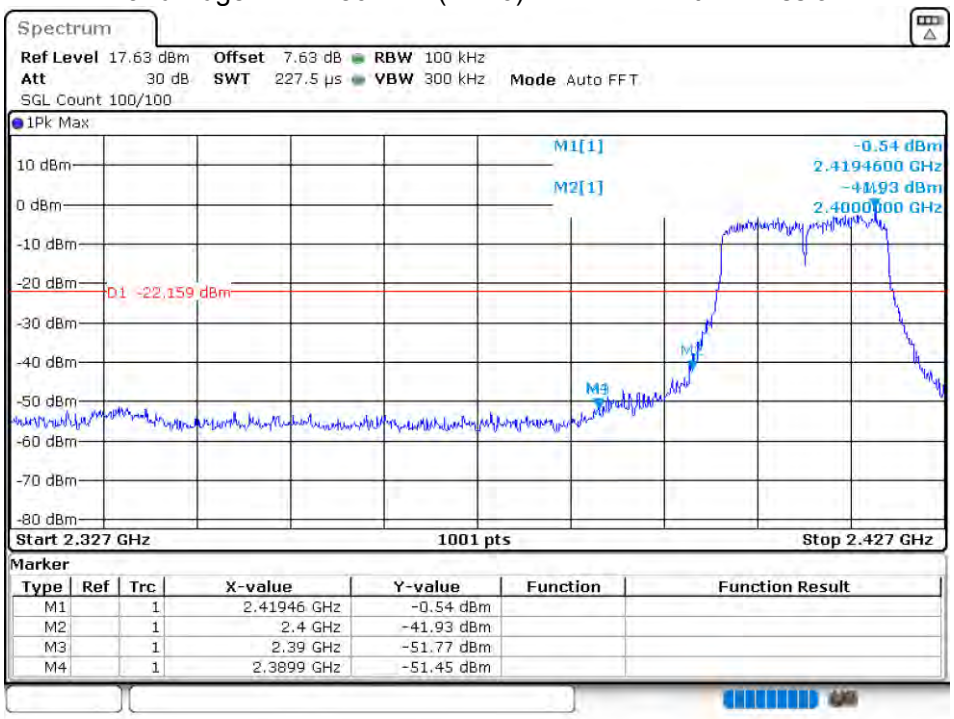
Band Edge NVNT 802.11n(HT20) 2462MHz Ant 1 Emission



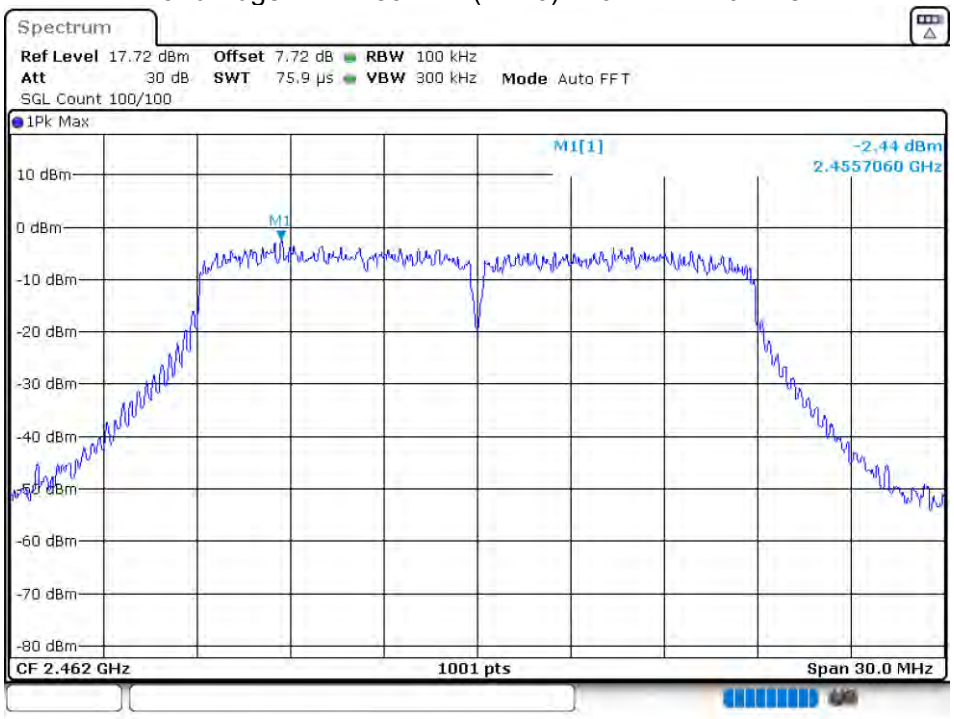
Band Edge NVNT 802.11n(HT20) 2412MHz Ant 2 Ref



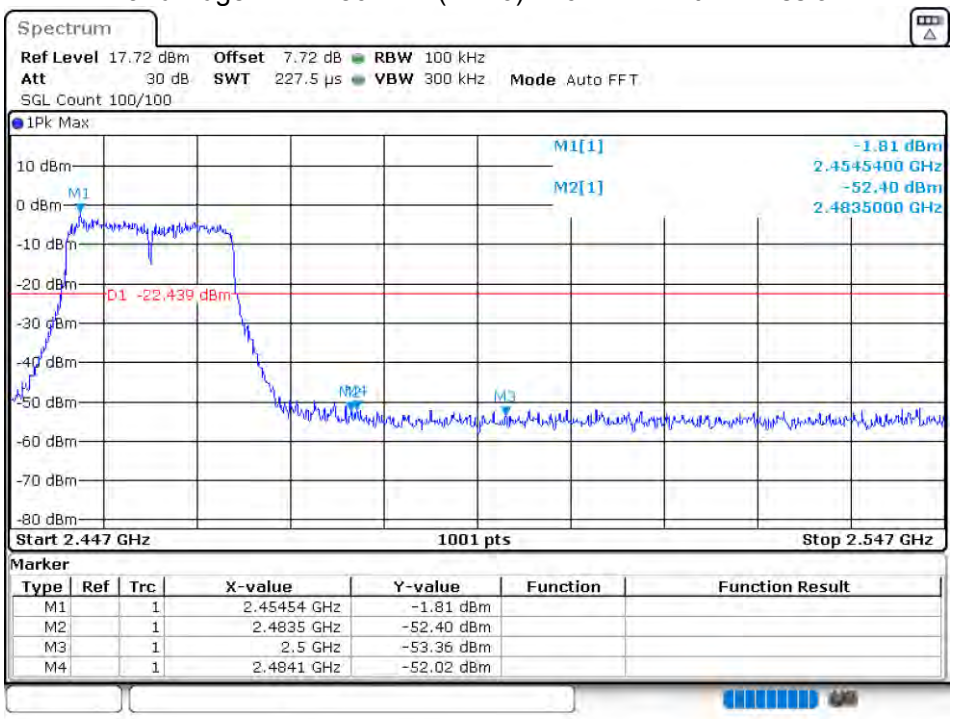
Band Edge NVNT 802.11n(HT20) 2412MHz Ant 2 Emission



Band Edge NVNT 802.11n(HT20) 2462MHz Ant 2 Ref



Band Edge NVNT 802.11n(HT20) 2462MHz Ant 2 Emission



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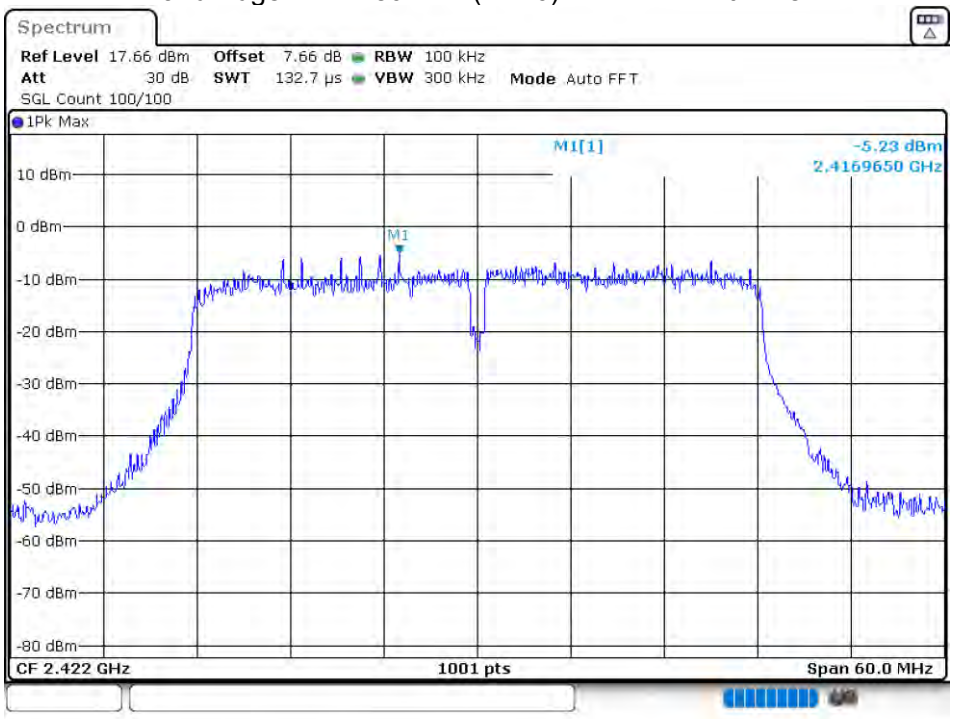
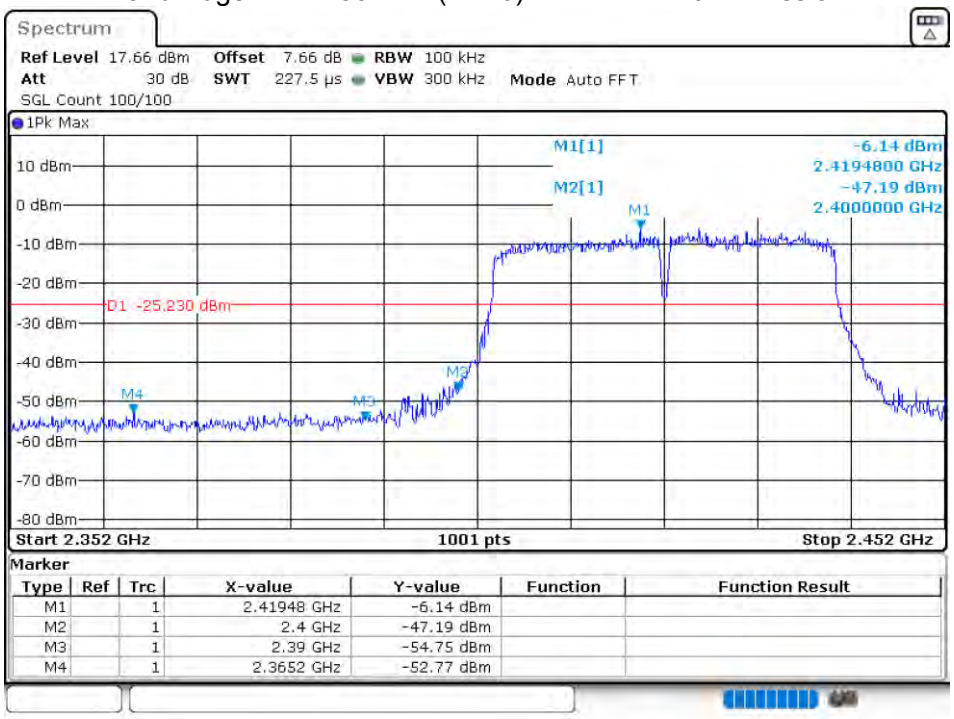
Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45454 GHz	-1.81 dBm		
M2		1	2.4835 GHz	-52.40 dBm		
M3		1	2.5 GHz	-53.36 dBm		
M4		1	2.4841 GHz	-52.02 dBm		

Band Edge NVNT 802.11n(HT40) 2422MHz Ant 1 Ref



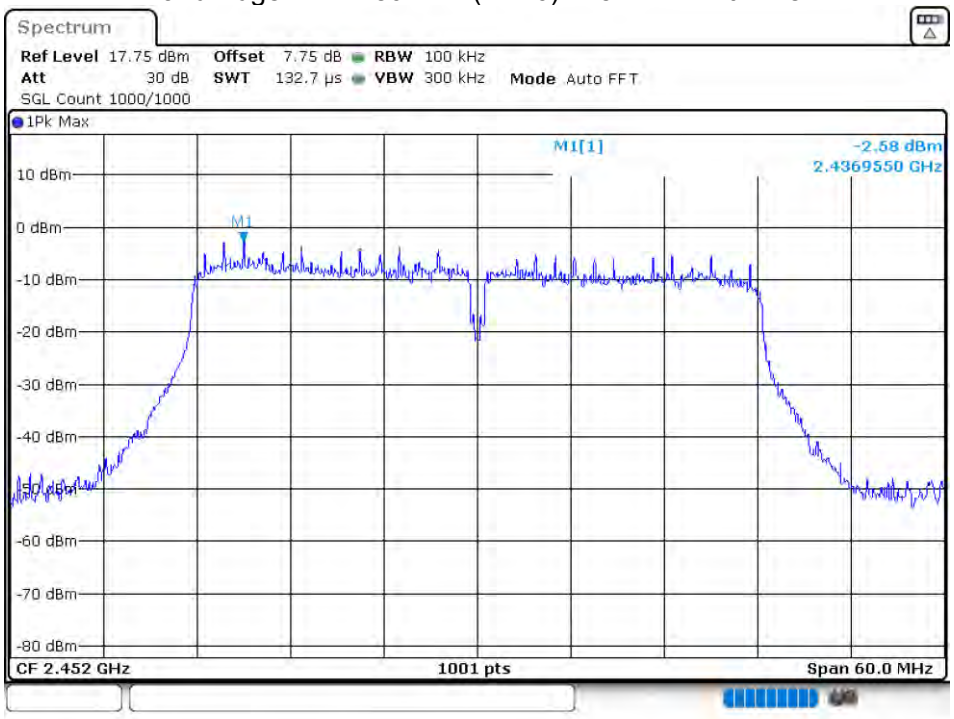
Band Edge NVNT 802.11n(HT40) 2422MHz Ant 1 Emission



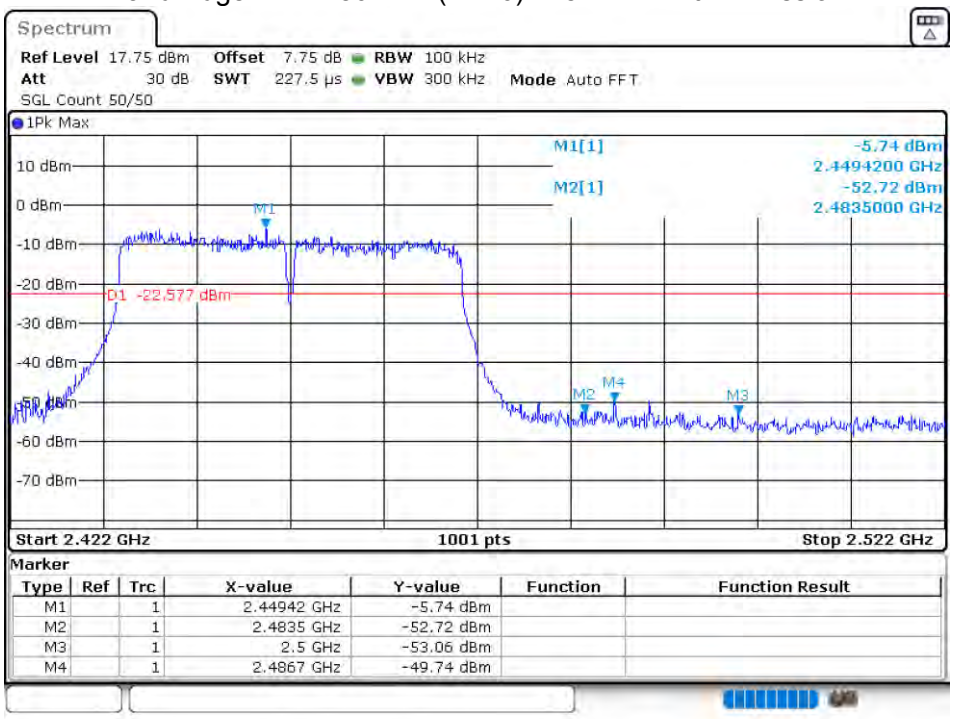
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41948 GHz	-6.14 dBm		
M2		1	2.4 GHz	-47.19 dBm		
M3		1	2.39 GHz	-54.75 dBm		
M4		1	2.3652 GHz	-52.77 dBm		

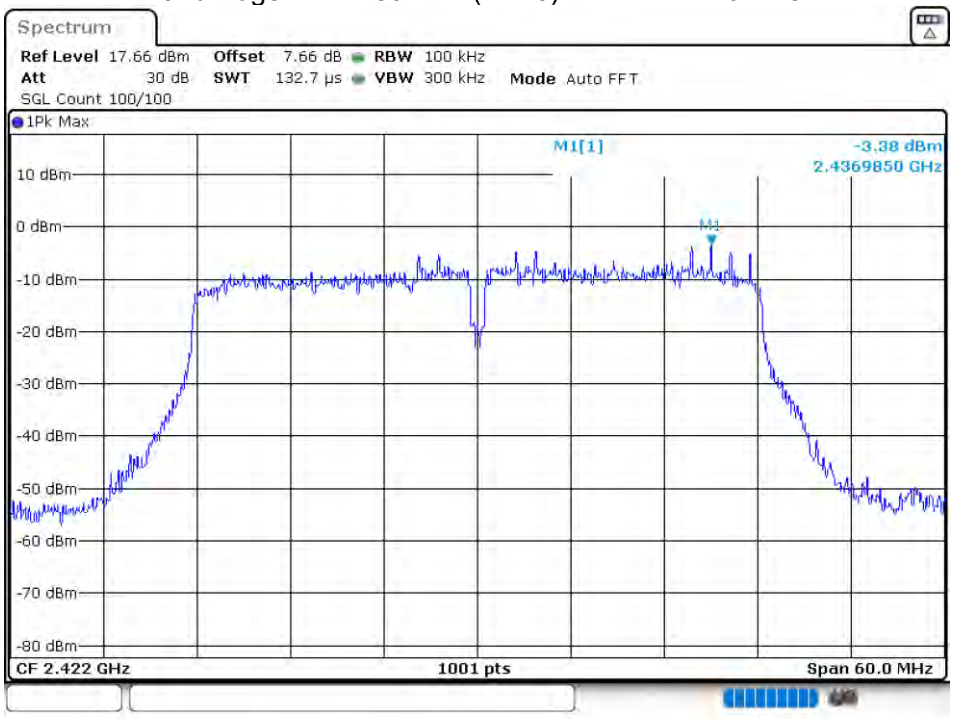
Band Edge NVNT 802.11n(HT40) 2452MHz Ant 1 Ref



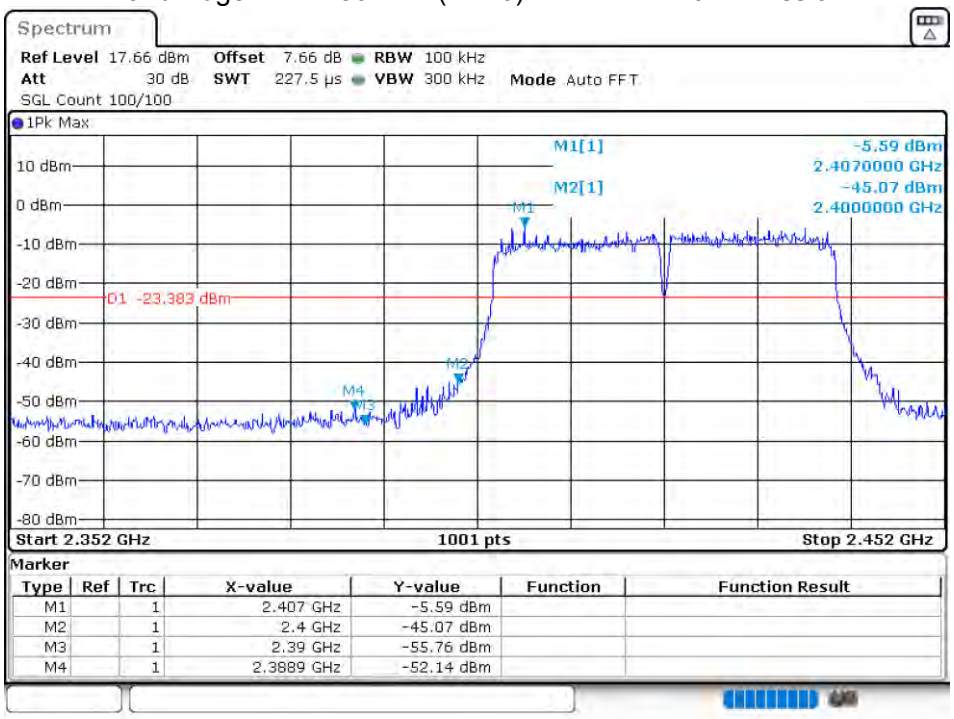
Band Edge NVNT 802.11n(HT40) 2452MHz Ant 1 Emission



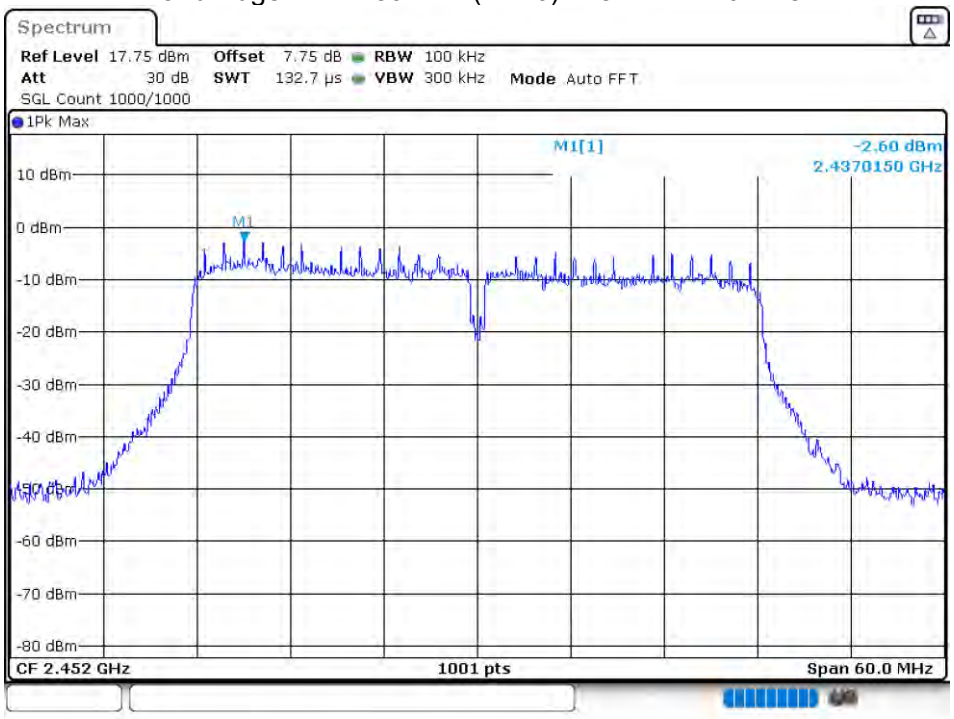
Band Edge NVNT 802.11n(HT40) 2422MHz Ant 2 Ref



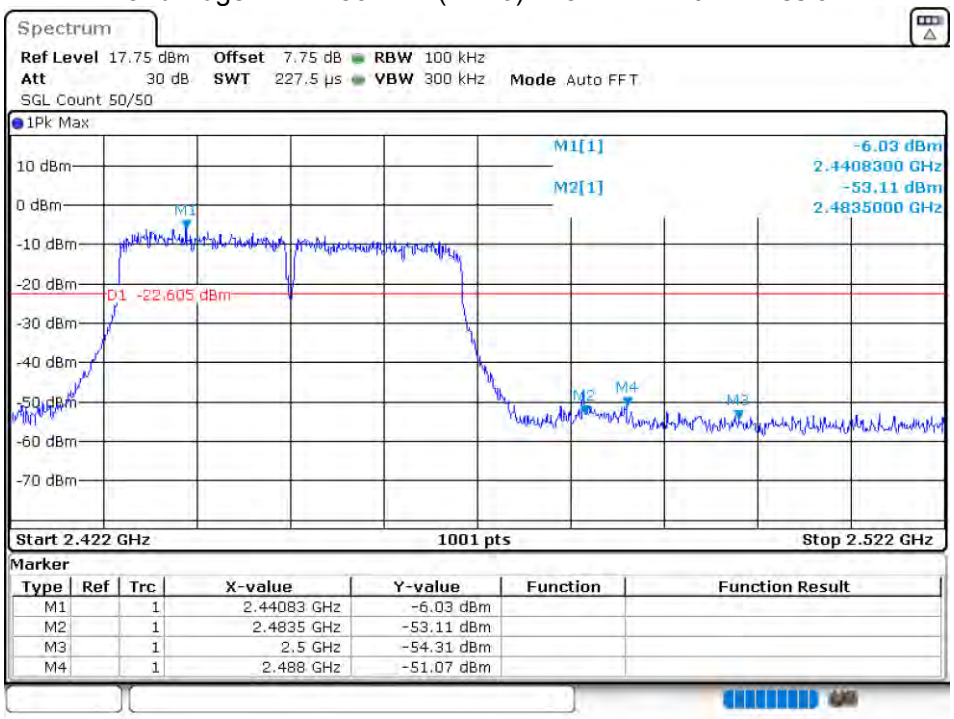
Band Edge NVNT 802.11n(HT40) 2422MHz Ant 2 Emission



Band Edge NVNT 802.11n(HT40) 2452MHz Ant 2 Ref



Band Edge NVNT 802.11n(HT40) 2452MHz Ant 2 Emission



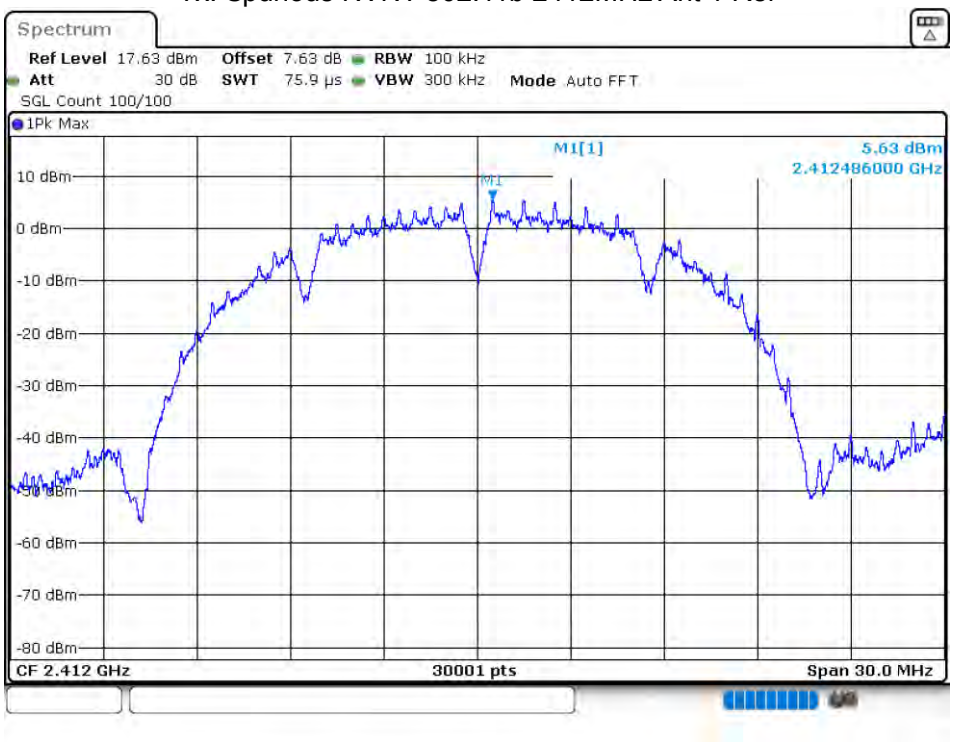
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.44083 GHz	-6.03 dBm		
M2		1	2.4835 GHz	-53.11 dBm		
M3		1	2.5 GHz	-54.31 dBm		
M4		1	2.488 GHz	-51.07 dBm		

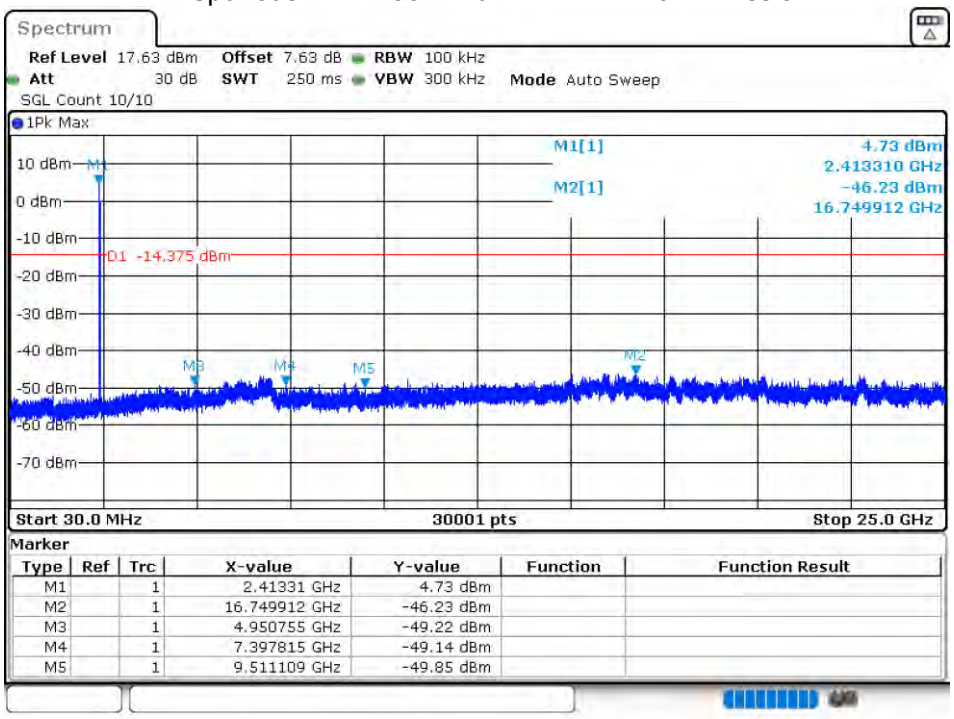
8.6 CONDUCTED RF SPURIOUS EMISSION

Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	802.11b	2412	Ant 1	-51.86	-20	Pass
NVNT	802.11b	2437	Ant 1	-52.78	-20	Pass
NVNT	802.11b	2462	Ant 1	-51.52	-20	Pass
NVNT	802.11b	2412	Ant 2	-50.54	-20	Pass
NVNT	802.11b	2437	Ant 2	-52.48	-20	Pass
NVNT	802.11b	2462	Ant 2	-52.3	-20	Pass
NVNT	802.11g	2412	Ant 1	-45.36	-20	Pass
NVNT	802.11g	2437	Ant 1	-43.71	-20	Pass
NVNT	802.11g	2462	Ant 1	-45.95	-20	Pass
NVNT	802.11g	2412	Ant 2	-45.31	-20	Pass
NVNT	802.11g	2437	Ant 2	-44.19	-20	Pass
NVNT	802.11g	2462	Ant 2	-46.57	-20	Pass
NVNT	802.11n(HT20)	2412	Ant 1	-45.61	-20	Pass
NVNT	802.11n(HT20)	2437	Ant 1	-45.56	-20	Pass
NVNT	802.11n(HT20)	2462	Ant 1	-44.93	-20	Pass
NVNT	802.11n(HT20)	2412	Ant 2	-45.81	-20	Pass
NVNT	802.11n(HT20)	2437	Ant 2	-44.23	-20	Pass
NVNT	802.11n(HT20)	2462	Ant 2	-41.94	-20	Pass
NVNT	802.11n(HT40)	2422	Ant 1	-41.22	-20	Pass
NVNT	802.11n(HT40)	2437	Ant 1	-41.81	-20	Pass
NVNT	802.11n(HT40)	2452	Ant 1	-43.07	-20	Pass
NVNT	802.11n(HT40)	2422	Ant 2	-41.98	-20	Pass
NVNT	802.11n(HT40)	2437	Ant 2	-43.64	-20	Pass
NVNT	802.11n(HT40)	2452	Ant 2	-42.15	-20	Pass

Tx. Spurious NVNT 802.11b 2412MHz Ant 1 Ref



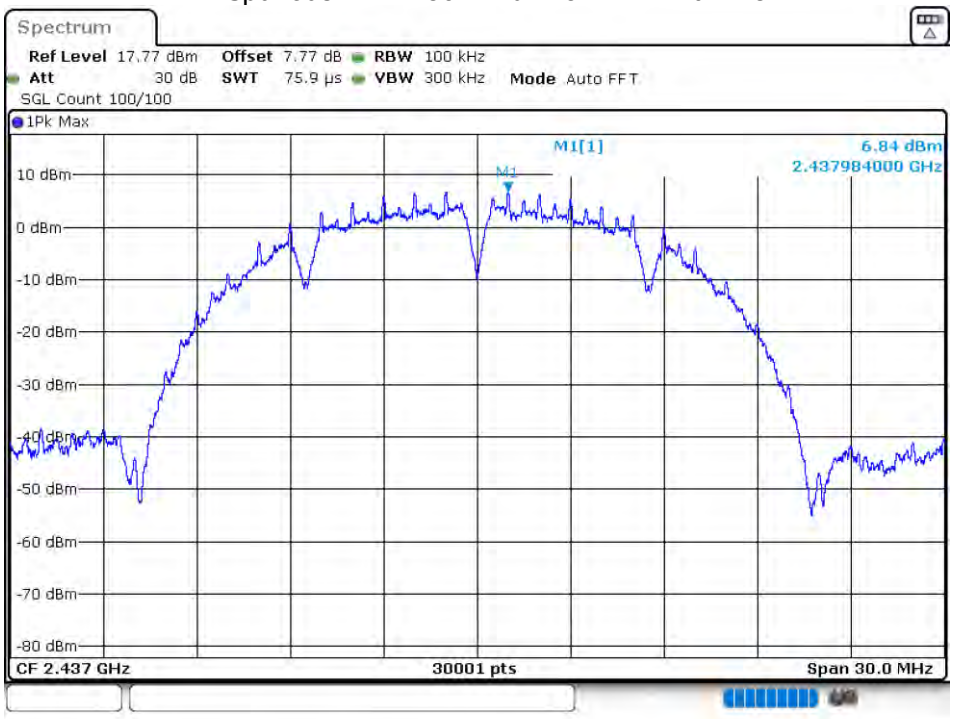
Tx. Spurious NVNT 802.11b 2412MHz Ant 1 Emission



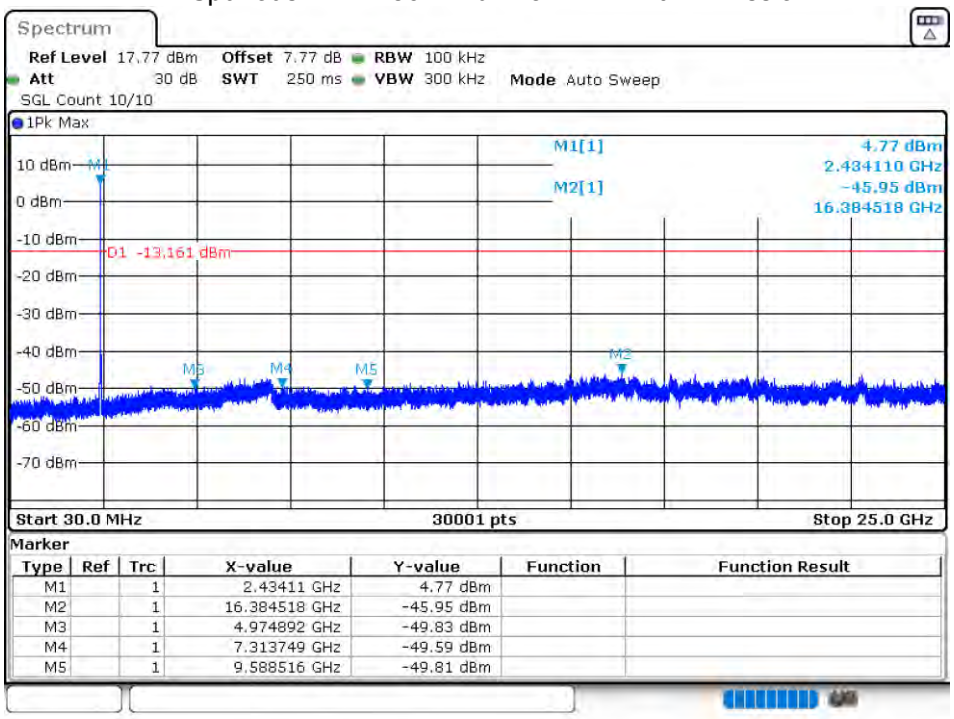
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.41331 GHz	4.73 dBm		
M2		1	16.749912 GHz	-46.23 dBm		
M3		1	4.950755 GHz	-49.22 dBm		
M4		1	7.397815 GHz	-49.14 dBm		
M5		1	9.511109 GHz	-49.85 dBm		

Tx. Spurious NVNT 802.11b 2437MHz Ant 1 Ref



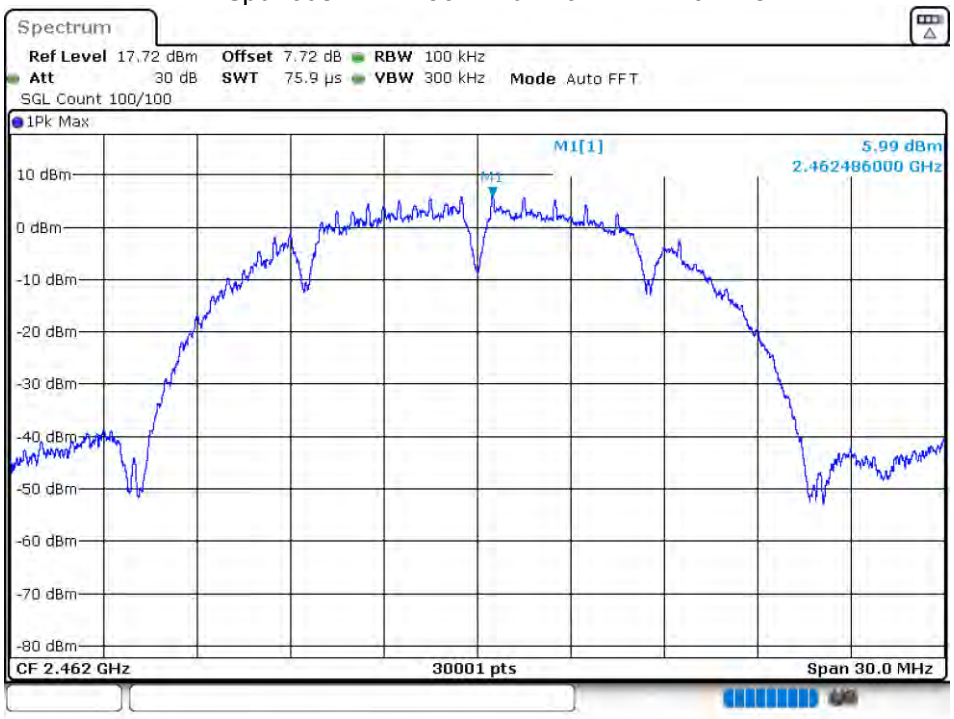
Tx. Spurious NVNT 802.11b 2437MHz Ant 1 Emission



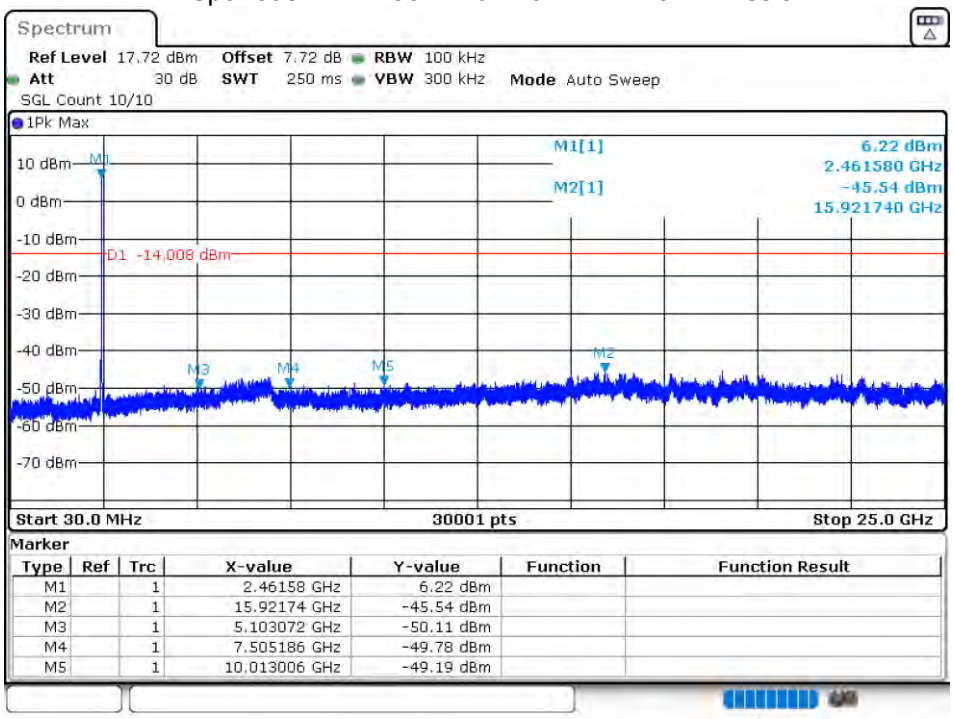
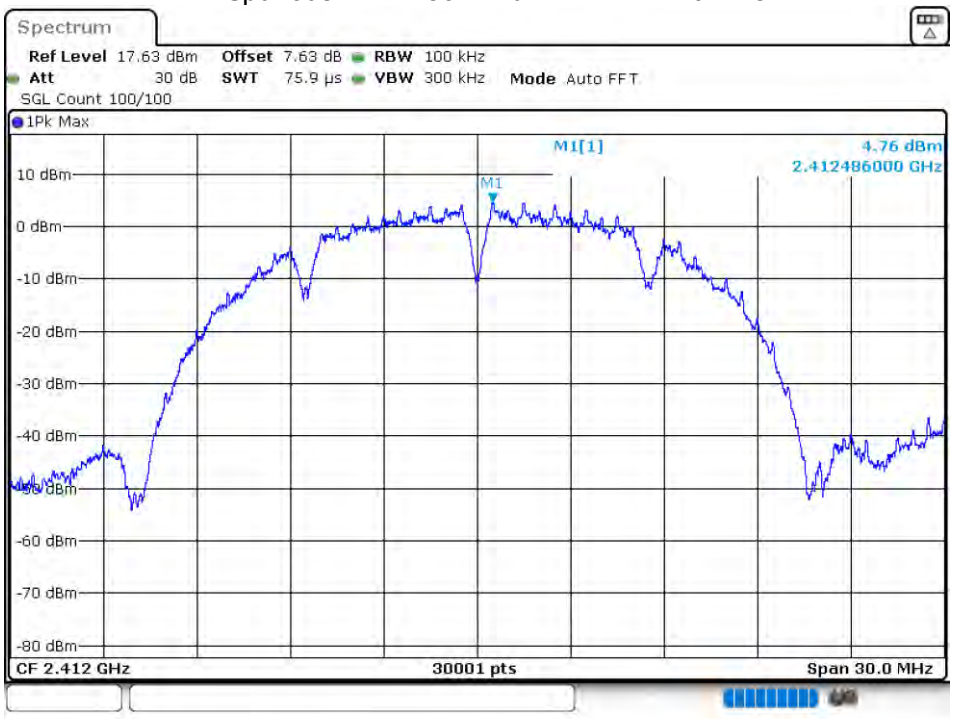
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.43411 GHz	4.77 dBm		
M2		1	16.384518 GHz	-45.95 dBm		
M3		1	4.974892 GHz	-49.83 dBm		
M4		1	7.313749 GHz	-49.59 dBm		
M5		1	9.588516 GHz	-49.81 dBm		

Tx. Spurious NVNT 802.11b 2462MHz Ant 1 Ref



Tx. Spurious NVNT 802.11b 2462MHz Ant 1 Emission



Tx. Spurious NVNT 802.11b 2412MHz Ant 2 Ref