FCC RADIO TEST REPORT
FCC ID: 2BX8O-AQ6

Product: Mobile Phone
Trade Mark: ACER
Model No.: AQ6
Family Model: N/A
Report No.: N26042809606E
Issue Date: Aug. 10, 2026

Prepared for

Shenzhen Hengrui Ming Technology Co., Ltd.

052, Longuang building B , HaiXiu Road, Xin an street, Baoan District, Shenzhen, Guangdong Province

Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name .....:	Shenzhen Hengrui Ming Technology Co., Ltd.
Address .....:	052, Longuang building B , HaiXiu Road, Xin an street, Baoan District, Shenzhen, Guangdong Province
Manufacturer's Name .....:	Shenzhen Hengrui Ming Technology Co., Ltd.
Address .....:	052, Longuang building B , HaiXiu Road, Xin an street, Baoan District, Shenzhen, Guangdong Province
Product description	
Product name .....:	Mobile Phone
Trade Mark .....:	ACER
Model and/or type reference .....:	AQ6
Family Model .....:	N/A
Test sample number	S2605110076-1#
Date (s) of performance of tests ...	May. 11, 2026 ~ Aug. 10, 2026

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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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.

Prepared By:	Reviewed By:	Approved By:
Mary Hu (Project Engineer)	Aaron Cheng (Supervisor)	Alex Li (Manager)

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
No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of 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 17025:2017 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	:	No. 24 Xinfa East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of 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(9-150kHz)	3.7dB
2	Conducted Emission Test(0.15-30MHz)	3.3dB
3	RF power, conducted	0.9dB
4	Power Spectral Density, conducted	0.9dB
5	Occupied bandwidth	1.2%
6	Spurious emissions, conducted	2.2dB
7	Radio Frequency	0.2ppm
8	All emissions, radiated(9kHz~30MHz)	4.5dB
9	All emissions, radiated(30MHz~1G)	4.9dB
10	All emissions, radiated(1G~18G)	5.1dB
11	All emissions, radiated(18G~40G)	5.0dB
12	Temperature	0.5°C
13	Humidity	2%

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	Mobile Phone
Trade Mark	ACER
FCC ID	2BX8O-AQ6
Model No.	AQ6
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/802.11n20; 7 channels for 802.11n40;
Antenna Type	FPC Antenna
Antenna Gain	-0.97dBi
Adapter	Model: SGCH0030 Input: 100-240V~50/60Hz 0.9A Output: 5.0V⎓3.0A 15.0W OR 9.0V⎓3.0A 27.0W OR 12.0V⎓2.5A 30.0W OR 15.0V⎓2.0A 30.0W OR 20.0V⎓1.5A 30.0W MAX
Battery	Rated Capacity/Capacidad Nominal: DC 3.87V, 4900mAh, 18.96Wh Typical Capacity/Capacidad Tipica: DC 3.87V, 5000mAh, 19.35Wh
Rating(s)	DC 3.87V from battery or DC 5V/9V/12V/15V/20V from adapter
HW Version	SG0701_MB_V1.0
SW Version	N/A

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
N26042809606E	Rev.01	Initial issue of report	Aug. 10, 2026

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

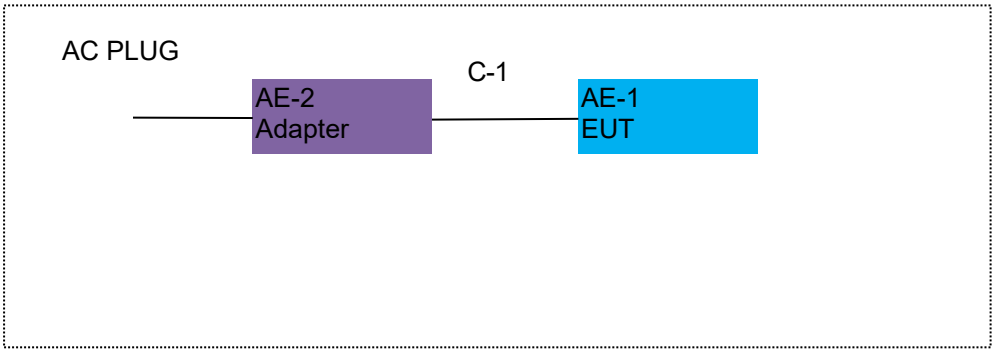
Test Mode:

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
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
Power Spectral Density				
	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
6dB Spectrum Bandwidth				
	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
Radiated Emissions Below 1GHz	Normal Link	-	-	-
Radiated Emissions Above 1GHz				
	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1
Band Edge Emissions				
	11b/CCK	1 Mbps	1/6/11	1
	11g/BPSK	6 Mbps	1/6/11	1
	11n HT20	MCS0	1/6/11	1
	11n HT40	MCS0	3/6/9	1

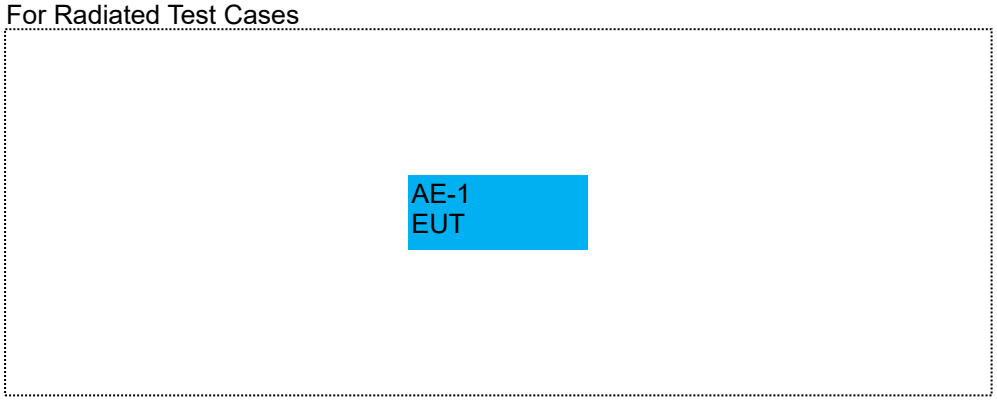
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

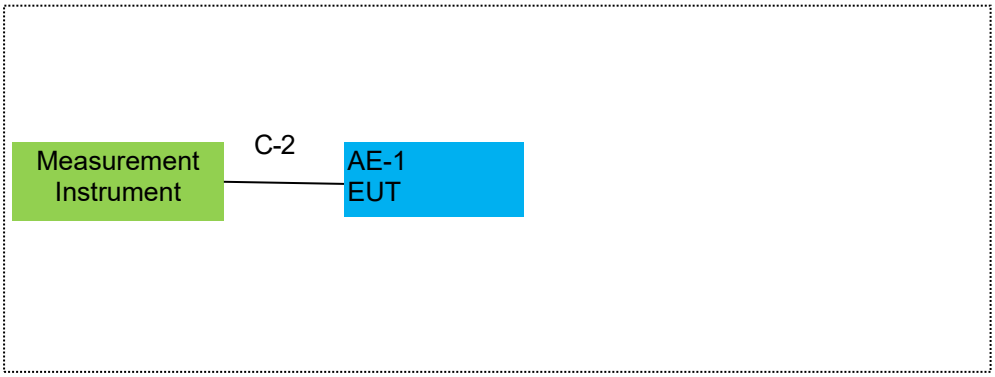
For AC Conducted Emission Mode



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	Mobile Phone	AQ6	N/A	EUT
AE-2	Adapter	SGCH0030	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	USB Cable	YES	NO	1.0m
C-2	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	Agilent	E4440A	MY41000130	2026.04.15	2027.04.14	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2026.04.08	2027.04.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2026.04.08	2027.04.07	1 year
4	Test Receiver	R&S	ESPI3	100145	2026.04.08	2027.04.07	1 year
5	Log-Periodic Antenna	SCHWARZBECK	VULB 9162	584	2026.04.11	2027.04.10	N/A
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2026.04.08	2027.04.07	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SNO84	2026.04.08	2027.04.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2024.05.06	2027.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2024.05.06	2027.05.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2024.05.06	2027.05.05	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	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	2026.04.08	2027.04.07	1 year
2	LISN	R&S	ENV216	101313	2026.04.08	2027.04.07	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2026.04.08	2027.04.07	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2024.05.06	2027.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2024.05.06	2027.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2024.05.06	2027.05.05	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.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

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

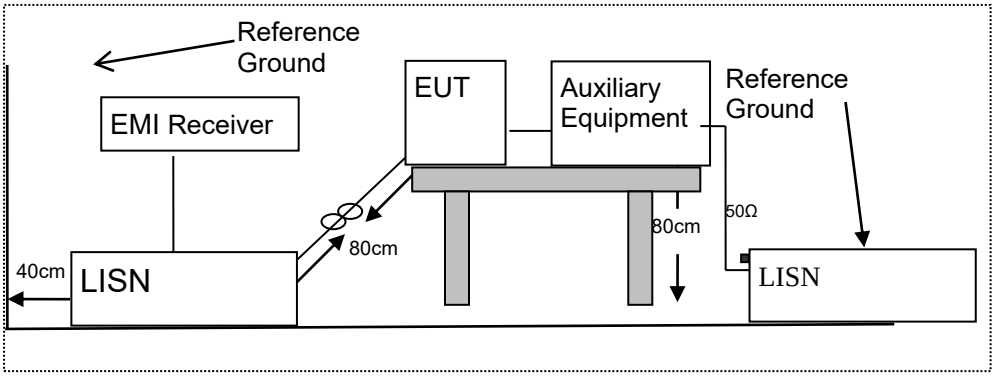
Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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.

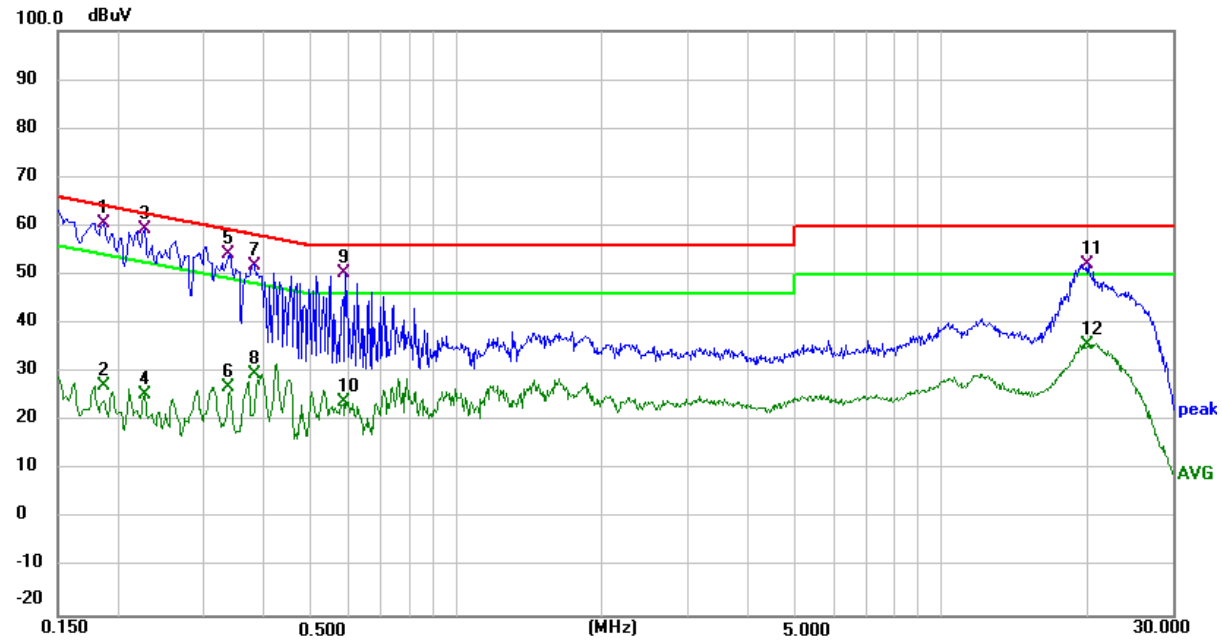
7.1.6 Test Results

EUT:	Mobile Phone	Model Name :	AQ6
Temperature:	23.6℃	Relative Humidity:	59.1%
Pressure:	1010hPa	Phase :	L
Test Voltage :	DC 5V 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
0.1860	40.18	20.42	60.60	64.21	-3.61	QP
0.1860	6.93	20.42	27.35	54.21	-26.86	AVG
0.2260	38.90	20.47	59.37	62.60	-3.23	QP
0.2260	5.08	20.47	25.55	52.60	-27.05	AVG
0.3379	33.73	20.49	54.22	59.25	-5.03	QP
0.3379	6.50	20.49	26.99	49.25	-22.26	AVG
0.3810	31.54	20.46	52.00	58.26	-6.26	QP
0.3810	9.12	20.46	29.58	48.26	-18.68	AVG
0.5899	29.83	20.46	50.29	56.00	-5.71	QP
0.5899	3.64	20.46	24.10	46.00	-21.90	AVG
20.1259	31.78	20.44	52.22	60.00	-7.78	QP
20.1259	15.07	20.44	35.51	50.00	-14.49	AVG

Remark:

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

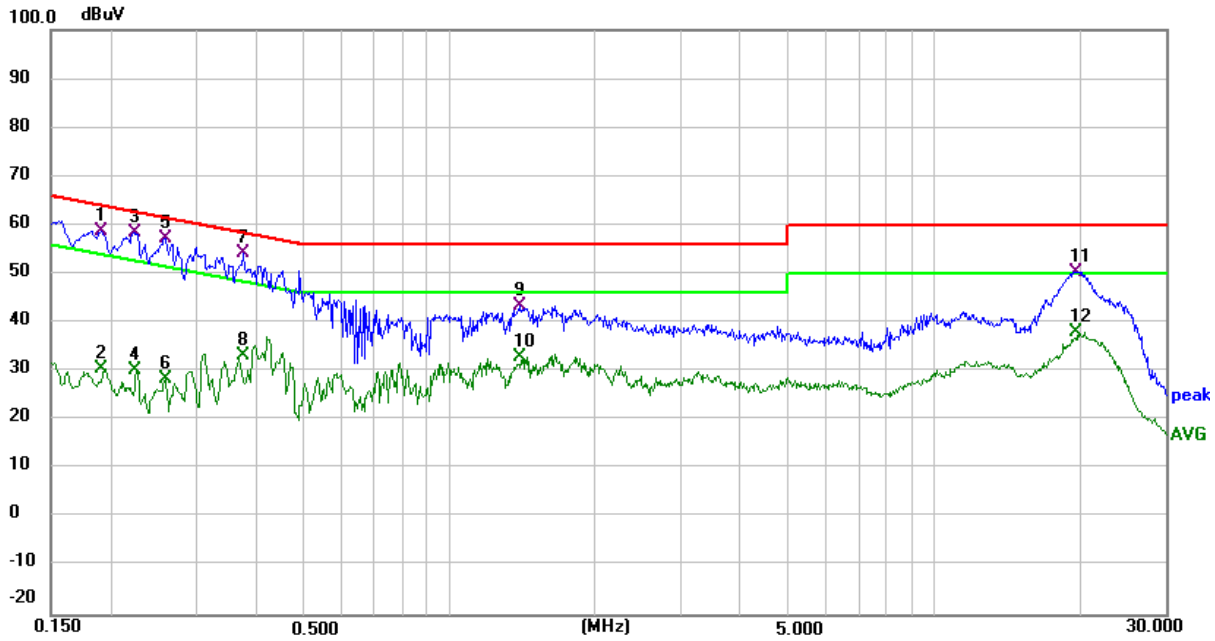


EUT：	Mobile Phone	Model Name ：	AQ6
Temperature：	23.6℃	Relative Humidity：	59.1%
Pressure：	1010hPa	Phase :	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Normal Link

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1900	38.33	20.38	58.71	64.04	-5.33	QP
0.1900	10.04	20.38	30.42	54.04	-23.62	AVG
0.2243	37.98	20.43	58.41	62.66	-4.25	QP
0.2243	9.87	20.43	30.30	52.66	-22.36	AVG
0.2580	36.72	20.49	57.21	61.50	-4.29	QP
0.2580	7.95	20.49	28.44	51.50	-23.06	AVG
0.3740	33.74	20.43	54.17	58.41	-4.24	QP
0.3740	12.90	20.43	33.33	48.41	-15.08	AVG
1.4020	23.12	20.25	43.37	56.00	-12.63	QP
1.4020	12.83	20.25	33.08	46.00	-12.92	AVG
19.5580	29.97	20.53	50.50	60.00	-9.50	QP
19.5580	17.61	20.53	38.14	50.00	-11.86	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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024

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);

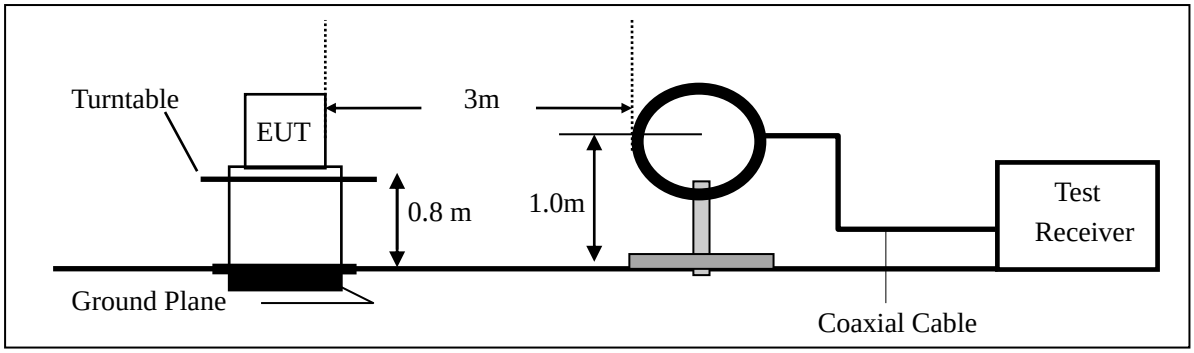
Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

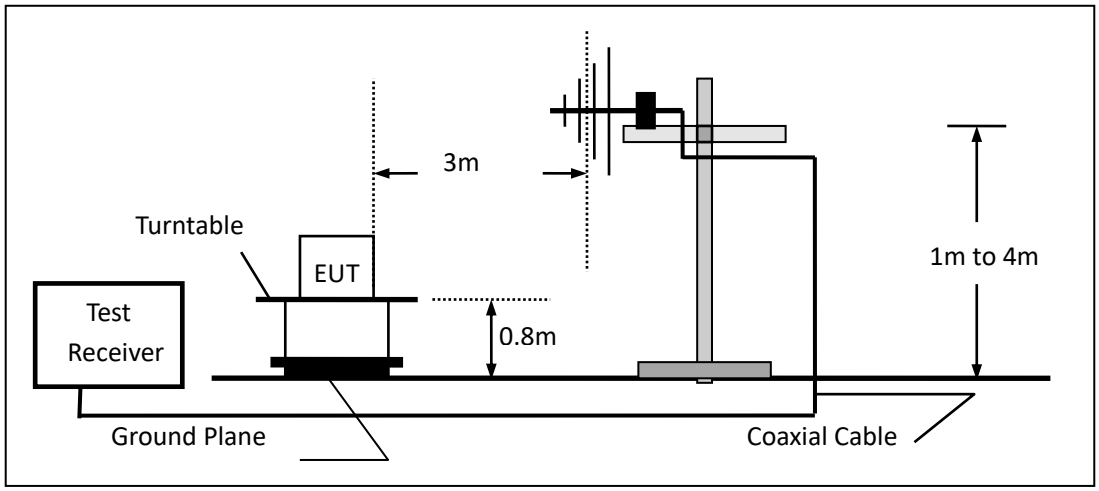
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

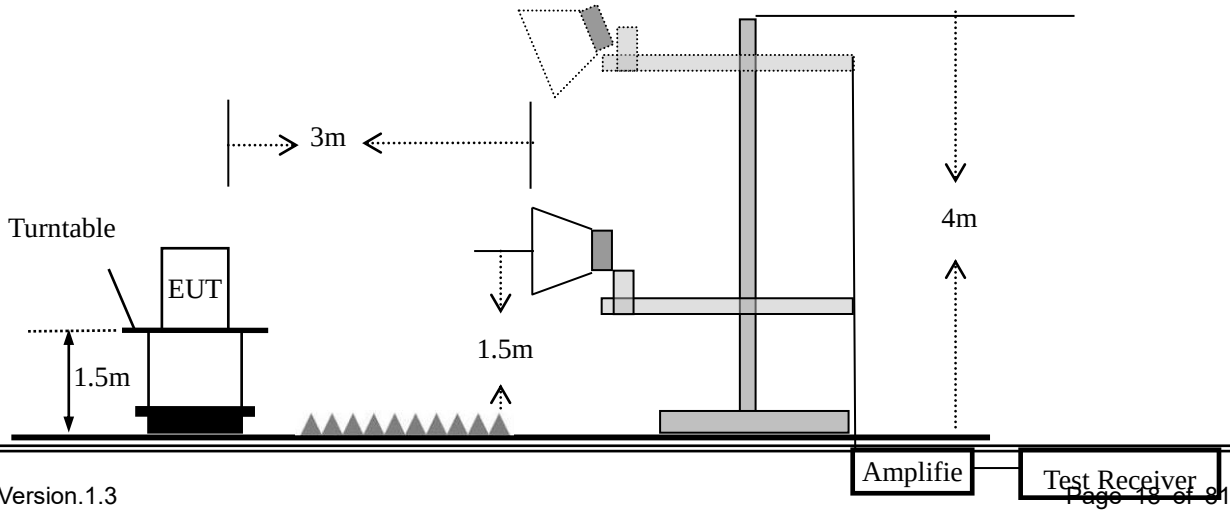
(a) For radiated emissions below 30MHz



(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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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:	Mobile Phone	Model No.:	AQ6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20,HT40)	Test By:	Mary Hu

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

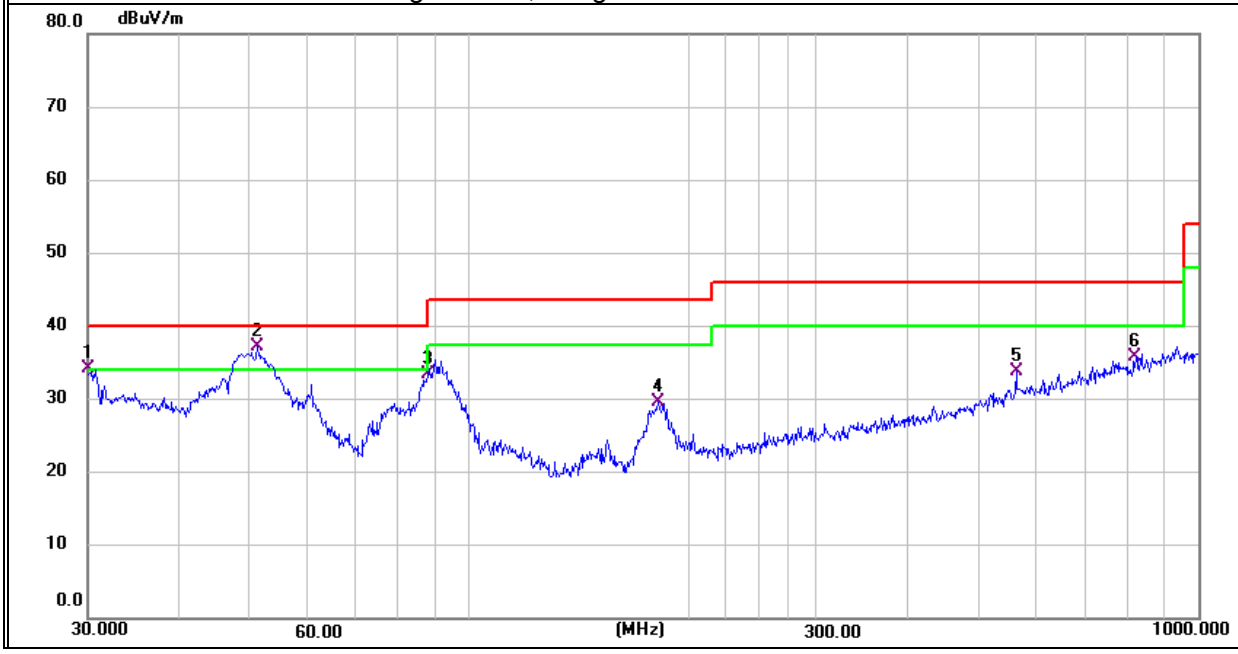
Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

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

EUT:	Mobile Phone	Model Name :	AQ6
Temperature:	24.3℃	Relative Humidity:	54.7%
Pressure:	1010hPa	Test Mode:	802.11b CH06
Test Voltage :	DC 3.87V		

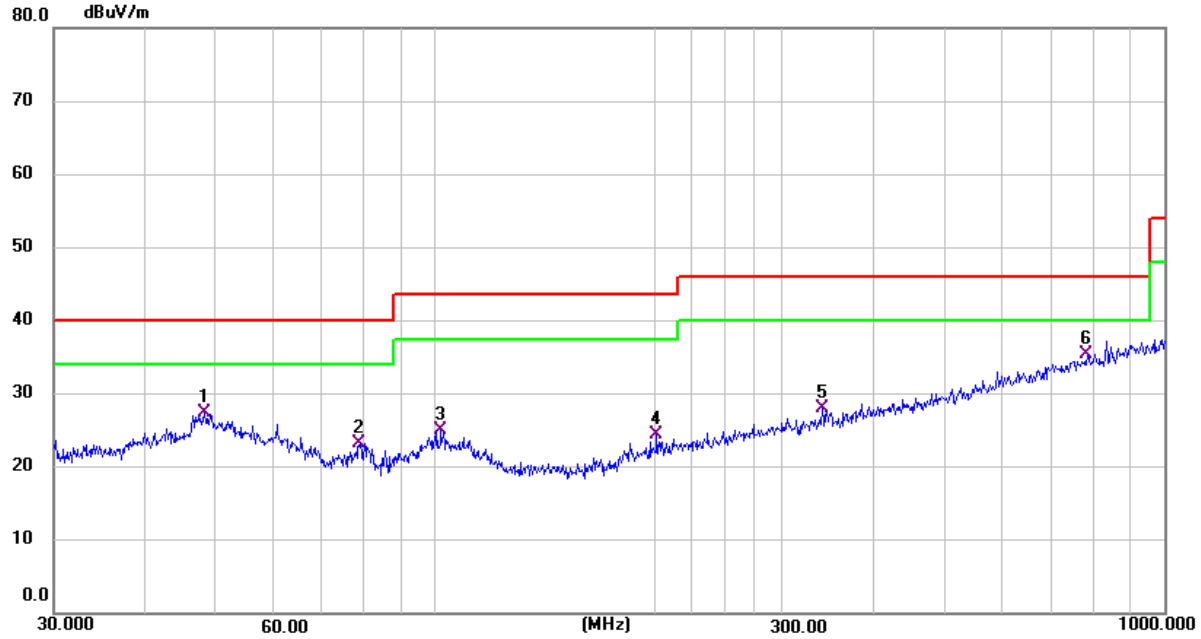
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	30.0000	17.19	17.08	34.27	40.00	-5.73	QP
V	51.3005	17.61	19.65	37.26	40.00	-2.74	QP
V	87.7246	17.94	15.51	33.45	40.00	-6.55	QP
V	181.9202	13.19	16.52	29.71	43.50	-13.79	QP
V	562.6623	8.24	25.64	33.88	46.00	-12.12	QP
V	821.7103	6.38	29.36	35.74	46.00	-10.26	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	48.3320	7.28	20.17	27.45	40.00	-12.55	QP
H	78.9649	9.17	14.05	23.22	40.00	-16.78	QP
H	102.0010	6.89	18.19	25.08	43.50	-18.42	QP
H	201.3930	6.68	17.82	24.50	43.50	-19.00	QP
H	339.5890	6.29	21.71	28.00	46.00	-18.00	QP
H	785.0930	6.34	29.04	35.38	46.00	-10.62	QP

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



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

EUT:	Mobile Phone	Model No.:	AQ6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n(HT20,HT40)	Test By:	Mary Hu

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	
Low Channel (2412 MHz)(802.11b)--Above 1G									
4824.98	65.47	5.21	35.59	44.30	61.97	74.00	-12.03	Pk	Vertical
4824.98	52.27	5.21	35.59	44.30	48.77	54.00	-5.23	AV	Vertical
7236.35	67.38	6.48	36.27	44.60	65.53	74.00	-8.47	Pk	Vertical
7236.35	51.34	6.48	36.27	44.60	49.49	54.00	-4.51	AV	Vertical
4824.12	64.73	5.21	35.55	44.30	61.19	74.00	-12.81	Pk	Horizontal
4824.12	52.82	5.21	35.55	44.30	49.28	54.00	-4.72	AV	Horizontal
7235.84	64.59	6.48	36.27	44.52	62.82	74.00	-11.18	Pk	Horizontal
7235.84	50.94	6.48	36.27	44.52	49.17	54.00	-4.83	AV	Horizontal
Low Channel (2437 MHz)(802.11b)--Above 1G									
4874.84	68.47	5.21	35.66	44.20	65.14	74.00	-8.86	Pk	Vertical
4874.84	50.52	5.21	35.66	44.20	47.19	54.00	-6.81	AV	Vertical
7311.43	65.10	7.10	36.50	44.43	64.27	74.00	-9.73	Pk	Vertical
7311.43	52.43	7.10	36.50	44.43	51.60	54.00	-2.40	AV	Vertical
4874.65	67.19	5.21	35.66	44.20	63.86	74.00	-10.14	Pk	Horizontal
4874.65	50.20	5.21	35.66	44.20	46.87	54.00	-7.13	AV	Horizontal
7311.55	68.93	7.10	36.50	44.43	68.10	74.00	-5.90	Pk	Horizontal
7311.55	52.08	7.10	36.50	44.43	51.25	54.00	-2.75	AV	Horizontal
Low Channel (2462 MHz)(802.11b)--Above 1G									
4924.76	66.28	5.21	35.52	44.21	62.80	74.00	-11.20	Pk	Vertical
4924.76	51.90	5.21	35.52	44.21	48.42	54.00	-5.58	AV	Vertical
7386.16	65.10	7.10	36.53	44.60	64.13	74.00	-9.87	Pk	Vertical
7386.16	52.46	7.10	36.53	44.60	51.49	54.00	-2.51	AV	Vertical
4924.28	67.87	5.21	35.52	44.21	64.39	74.00	-9.61	Pk	Horizontal
4924.28	52.75	5.21	35.52	44.21	49.27	54.00	-4.73	AV	Horizontal
7386.36	65.60	7.10	36.53	44.60	64.63	74.00	-9.37	Pk	Horizontal
7386.36	50.62	7.10	36.53	44.60	49.65	54.00	-4.35	AV	Horizontal

Note:

(1) Emission Level= Read Level+ Factor

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

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

■ 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	65.08	2.97	27.80	43.80	52.05	74	-21.95	Pk	Horizontal
2310.00	47.31	2.97	27.80	43.80	34.28	54	-19.72	AV	Horizontal
2310.00	63.55	2.97	27.80	43.80	50.52	74	-23.48	Pk	Vertical
2310.00	51.41	2.97	27.80	43.80	38.38	54	-15.62	AV	Vertical
2390.00	71.83	3.14	27.21	43.80	58.38	74	-15.62	Pk	Vertical
2390.00	62.53	3.14	27.21	43.80	49.08	54	-4.92	AV	Vertical
2390.00	66.71	3.14	27.21	43.80	53.26	74	-20.74	Pk	Horizontal
2390.00	51.38	3.14	27.21	43.80	37.93	54	-16.07	AV	Horizontal
2483.50	66.59	3.58	27.70	44.00	53.87	74	-20.13	Pk	Vertical
2483.50	52.20	3.58	27.70	44.00	39.48	54	-14.52	AV	Vertical
2483.50	68.14	3.58	27.70	44.00	55.42	74	-18.58	Pk	Horizontal
2483.50	51.11	3.58	27.70	44.00	38.39	54	-15.61	AV	Horizontal
802.11g									
2310.00	66.37	2.97	27.80	43.80	53.34	74	-20.66	Pk	Horizontal
2310.00	45.63	2.97	27.80	43.80	32.60	54	-21.40	AV	Horizontal
2310.00	62.75	2.97	27.80	43.80	49.72	74	-24.28	Pk	Vertical
2310.00	47.98	2.97	27.80	43.80	34.95	54	-19.05	AV	Vertical
2390.00	64.13	3.14	27.21	43.80	50.68	74	-23.32	Pk	Vertical
2390.00	52.76	3.14	27.21	43.80	39.31	54	-14.69	AV	Vertical
2390.00	68.62	3.14	27.21	43.80	55.17	74	-18.83	Pk	Horizontal
2390.00	51.64	3.14	27.21	43.80	38.19	54	-15.81	AV	Horizontal
2483.50	64.20	3.58	27.70	44.00	51.48	74	-22.52	Pk	Vertical
2483.50	51.99	3.58	27.70	44.00	39.27	54	-14.73	AV	Vertical
2483.50	68.88	3.58	27.70	44.00	56.16	74	-17.84	Pk	Horizontal
2483.50	50.68	3.58	27.70	44.00	37.96	54	-16.04	AV	Horizontal
802.11n20									
2310.00	65.57	2.97	27.80	43.80	52.54	74	-21.46	Pk	Horizontal
2310.00	44.44	2.97	27.80	43.80	31.41	54	-22.59	AV	Horizontal
2310.00	66.35	2.97	27.80	43.80	53.32	74	-20.68	Pk	Vertical
2310.00	49.05	2.97	27.80	43.80	36.02	54	-17.98	AV	Vertical
2390.00	67.25	3.14	27.21	43.80	53.80	74	-20.20	Pk	Vertical
2390.00	51.39	3.14	27.21	43.80	37.94	54	-16.06	AV	Vertical
2390.00	67.89	3.14	27.21	43.80	54.44	74	-19.56	Pk	Horizontal
2390.00	51.06	3.14	27.21	43.80	37.61	54	-16.39	AV	Horizontal
2483.50	67.35	3.58	27.70	44.00	54.63	74	-19.37	Pk	Vertical
2483.50	52.14	3.58	27.70	44.00	39.42	54	-14.58	AV	Vertical
2483.50	67.99	3.58	27.70	44.00	55.27	74	-18.73	Pk	Horizontal
2483.50	50.65	3.58	27.70	44.00	37.93	54	-16.07	AV	Horizontal

802.11n40									
2310.00	65.97	2.97	27.80	43.80	52.94	74	-21.06	Pk	Horizontal
2310.00	46.94	2.97	27.80	43.80	33.91	54	-20.09	AV	Horizontal
2310.00	66.46	2.97	27.80	43.80	53.43	74	-20.57	Pk	Vertical
2310.00	50.29	2.97	27.80	43.80	37.26	54	-16.74	AV	Vertical
2390.00	68.16	3.14	27.21	43.80	54.71	74	-19.29	Pk	Vertical
2390.00	52.21	3.14	27.21	43.80	38.76	54	-15.24	AV	Vertical
2390.00	67.65	3.14	27.21	43.80	54.20	74	-19.80	Pk	Horizontal
2390.00	50.21	3.14	27.21	43.80	36.76	54	-17.24	AV	Horizontal
2483.50	65.66	3.58	27.70	44.00	52.94	74	-21.06	Pk	Vertical
2483.50	51.63	3.58	27.70	44.00	38.91	54	-15.09	AV	Vertical
2483.50	65.10	3.58	27.70	44.00	52.38	74	-21.62	Pk	Horizontal
2483.50	51.75	3.58	27.70	44.00	39.03	54	-14.97	AV	Horizontal

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	70.03	4.04	29.57	44.70	58.94	74	-15.06	Pk	Vertical
3260	46.41	4.04	29.57	44.70	35.32	54	-18.68	AV	Vertical
3260	69.18	4.04	29.57	44.70	58.09	74	-15.91	Pk	Horizontal
3260	45.54	4.04	29.57	44.70	34.45	54	-19.55	AV	Horizontal
3332	70.57	4.26	29.87	44.40	60.30	74	-13.70	Pk	Vertical
3332	50.16	4.26	29.87	44.40	39.89	54	-14.11	AV	Vertical
3332	70.97	4.26	29.87	44.40	60.70	74	-13.30	Pk	Horizontal
3332	46.93	4.26	29.87	44.40	36.66	54	-17.34	AV	Horizontal
17797	54.4	10.99	43.95	43.50	65.84	74	-8.16	Pk	Vertical
17797	32.92	10.99	43.95	43.50	44.36	54	-9.64	AV	Vertical
17788	58.8	11.81	43.69	44.60	69.70	74	-4.30	Pk	Horizontal
17788	35.86	11.81	43.69	44.60	46.76	54	-7.24	AV	Horizontal

“802.11 b” 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.

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:
a) Set RBW=shall be in therange of 1% to 5% of the OBW but not less than100kHz.
b) Set the VBW≥[3xRBW]
c) Detector = Peak.
d) Trace mode = max-hold.
e) Sweep=No faster than coupled (auto) time
f) Allow the trace to stabilize.
g) Measure the maximum width of the emission by placing two markers,one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display.such that each marker is at or slightly below the“-6 dB down amplitude".If a marker is below this“-6 dB down amplitude" value,then it shall be as close as possible to this value.

7.3.6 Test Results

EUT:	Mobile Phone	Model No.:	AQ6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Mary Hu

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:	Mobile Phone	Model No.:	AQ6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Mary Hu

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

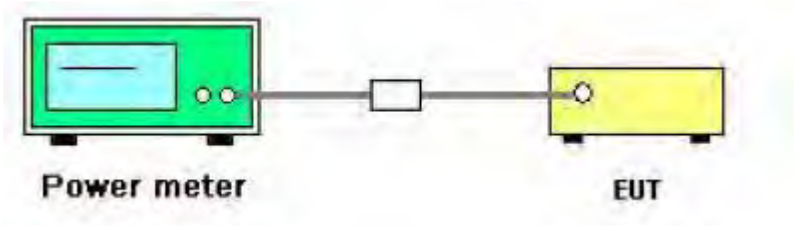
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). If transmitting antenna of directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be 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	AV

7.5.4 Test Setup



7.5.5 Test Procedure

The testing follows Measurement Procedure Subclause 11.9.2.3.1 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:	Mobile Phone	Model No.:	AQ6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Mary Hu

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 following procedure may be used when the maximum (average) conducted output power was used to determine compliance to the fundamental output power limit. This is the baseline method for determining the maximum (average) conducted PSD level. If the instrument has a power averaging (rms) detector, then it must be used; otherwise, use the sample detector. The EUT must be configured to transmit continuously (D ⩾ 98%), or else sweep triggering/signal gating must be implemented to help ensure that measurements are made only when the EUT is transmitting at its maximum power control level (no transmitter OFF time to be considered):

a) Set instrument center frequency to DTS channel center frequency.
b) Set span to > 1.5 times the OBW.
c) Set RBW to: 3 kHz ⩽ RBW ⩽ 100 kHz.
d) Set VBW ⩾ [3 × RBW].
e) Detector = power averaging (rms) or sample detector (when rms not available).
f) Ensure that the number of measurement points in the sweep ⩾ [2 × span / RBW].
g) Sweep time = auto couple.
h) Employ trace averaging (rms) mode over a minimum of 100 traces.
i) Use the peak marker function to determine the maximum amplitude level.
j) If the measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

7.6.6 Test Results

EUT:	Mobile Phone	Model No.:	AQ6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Mary Hu

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:	Mobile Phone	Model No.:	AQ6
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Mary Hu

Test data reference attachment.

7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -30dB 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 C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 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 26.5GHz.

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 FPC Antenna (Gain: -0.97dBi). It comply with the standard requirement.

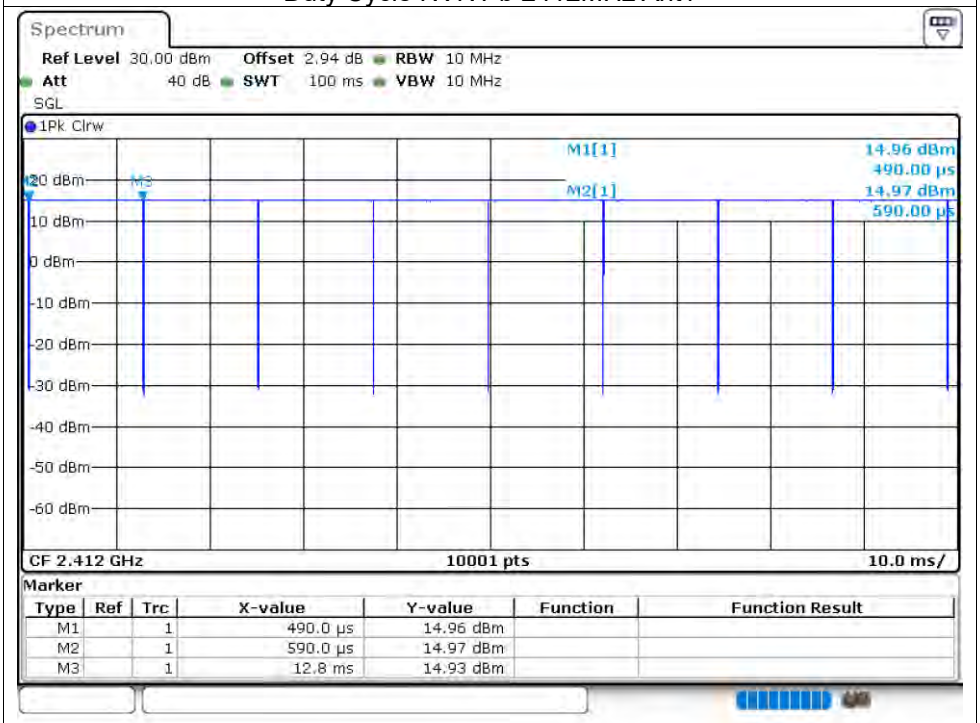
8 TEST RESULTS

8.1 DUTY CYCLE

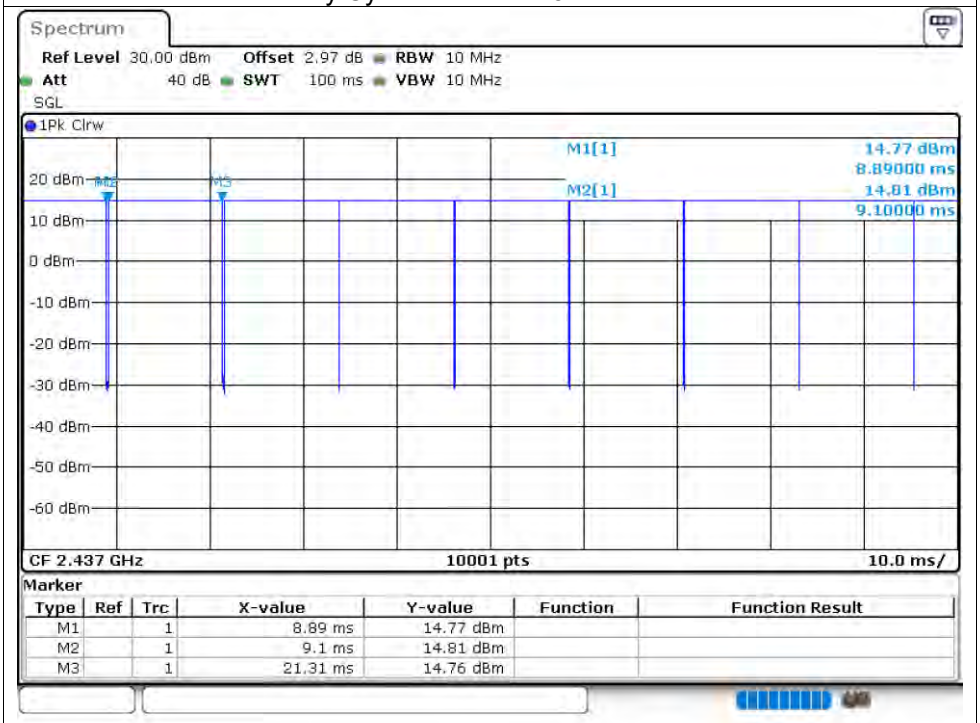
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.25	0.03	0.08
NVNT	b	2437	Ant1	99.07	0.04	0.08
NVNT	b	2462	Ant1	99.31	0.03	0.08
NVNT	g	2412	Ant1	98.77	0.05	0.49
NVNT	g	2437	Ant1	98.8	0.05	0.49
NVNT	g	2462	Ant1	98.8	0.05	0.49
NVNT	n20	2412	Ant1	98.7	0.06	0.53
NVNT	n20	2437	Ant1	98.7	0.06	0.53
NVNT	n20	2462	Ant1	98.7	0.06	0.53
NVNT	n40	2422	Ant1	98.38	0.07	0.55
NVNT	n40	2437	Ant1	98.12	0.08	0.55
NVNT	n40	2452	Ant1	98.22	0.08	0.55

Test Graphs

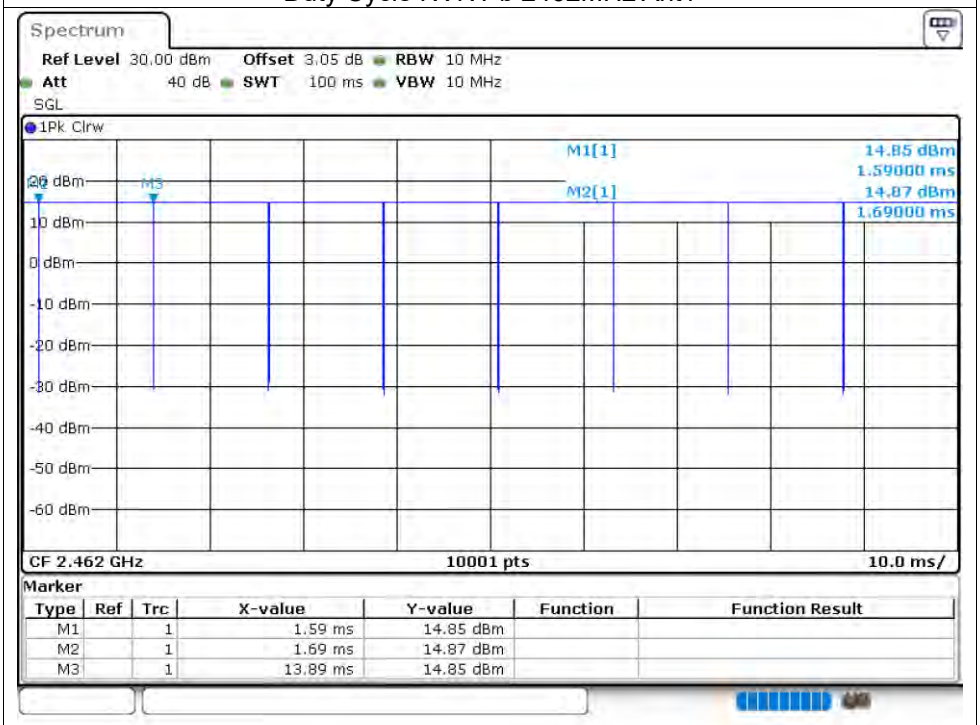
Duty Cycle NVNT b 2412MHz Ant1



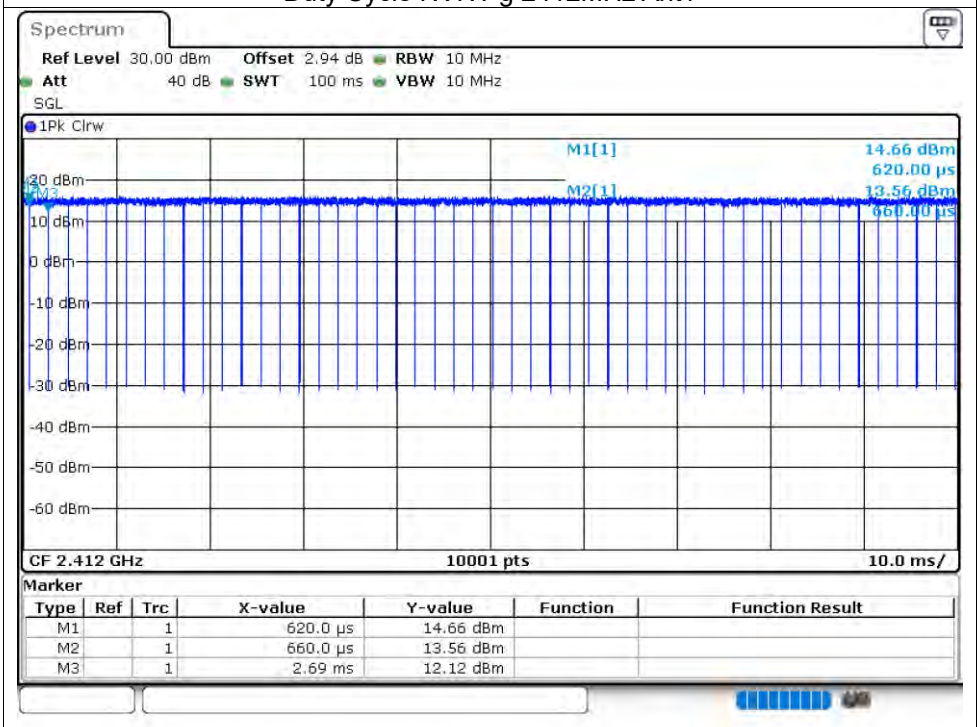
Duty Cycle NVNT b 2437MHz Ant1



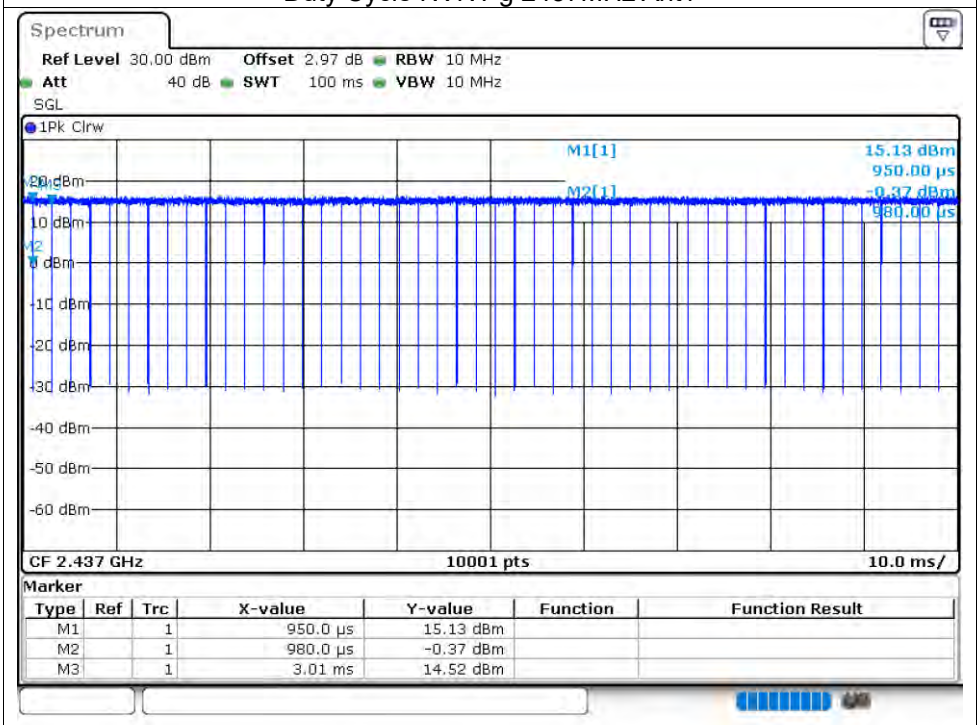
Duty Cycle NVNT b 2462MHz Ant1



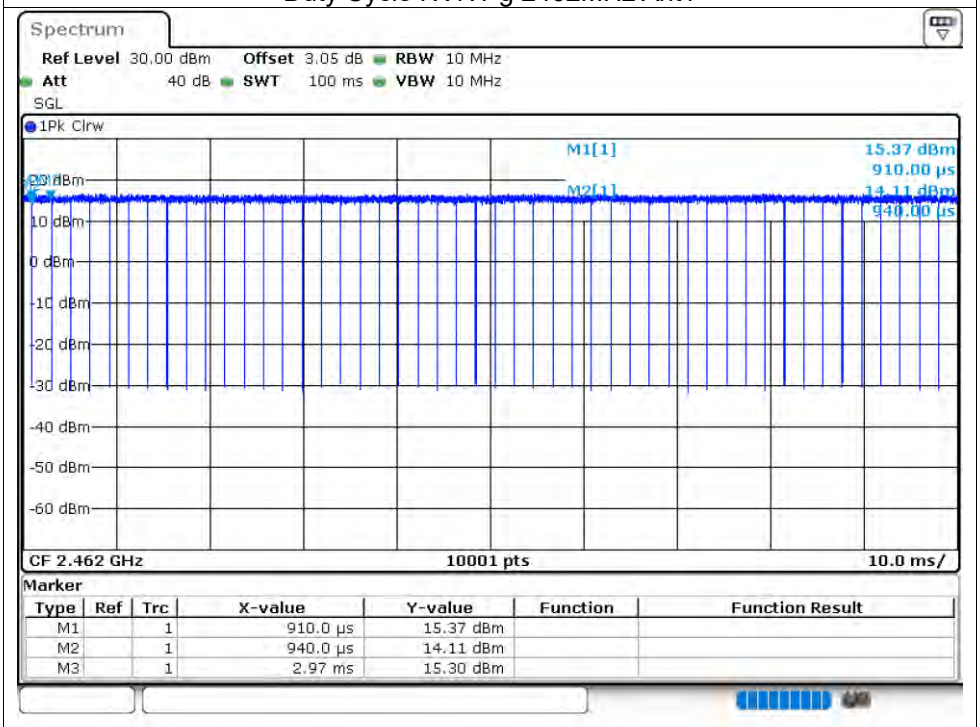
Duty Cycle NVNT g 2412MHz Ant1



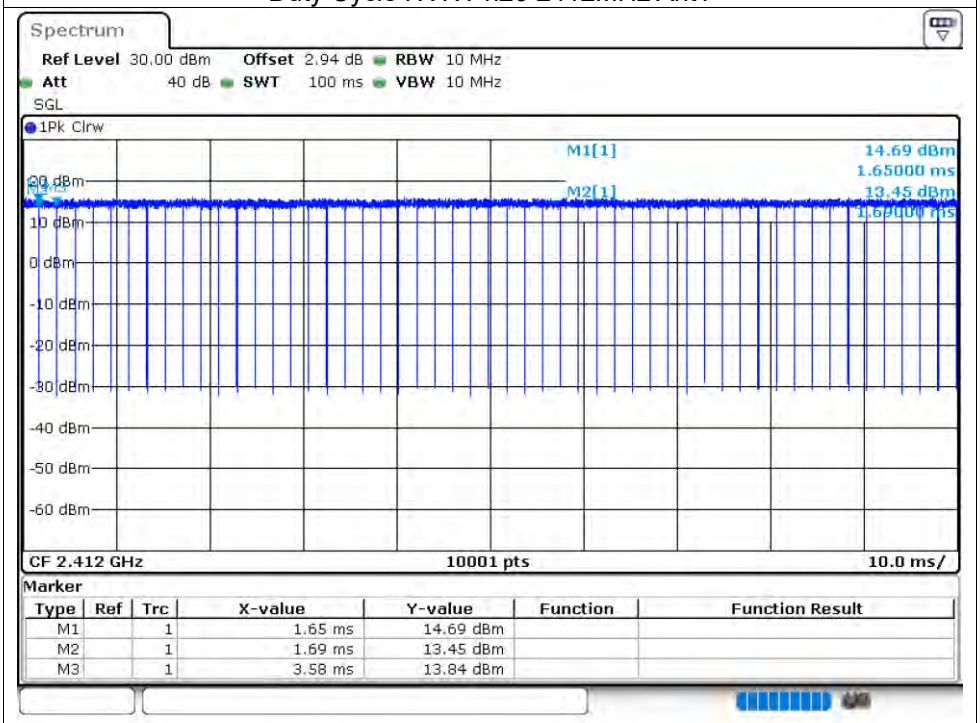
Duty Cycle NVNT g 2437MHz Ant1



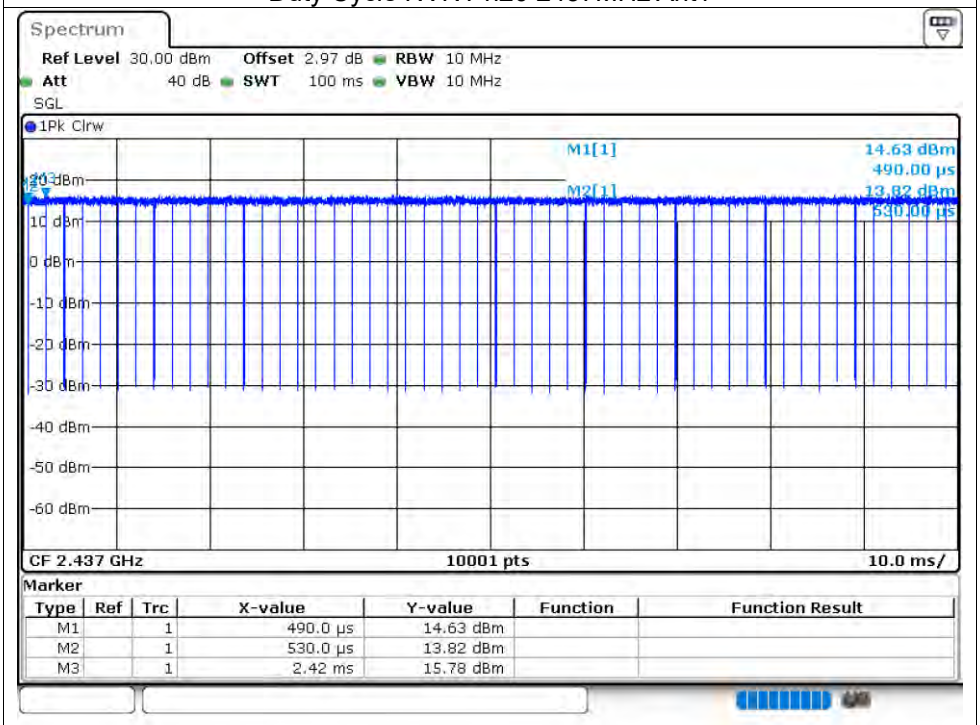
Duty Cycle NVNT g 2462MHz Ant1



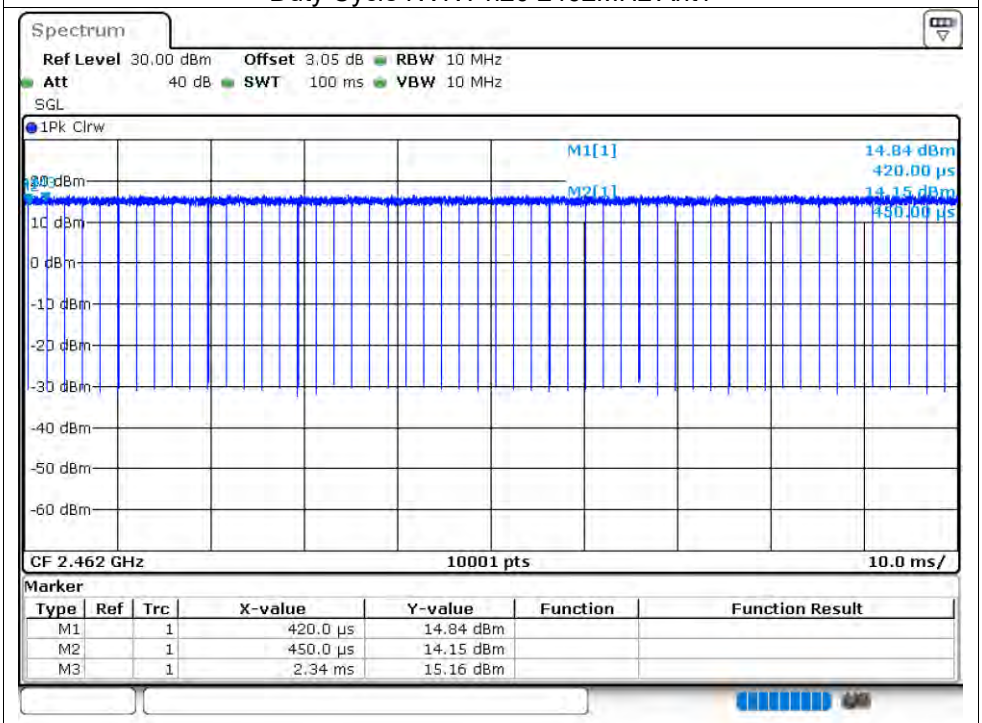
Duty Cycle NVNT n20 2412MHz Ant1



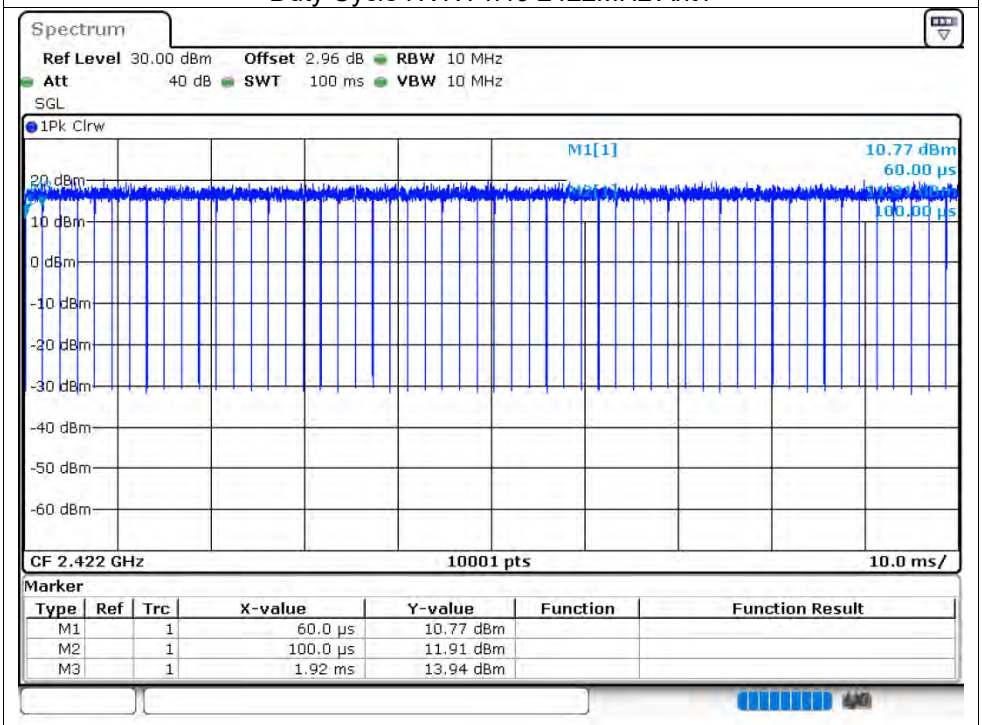
Duty Cycle NVNT n20 2437MHz Ant1



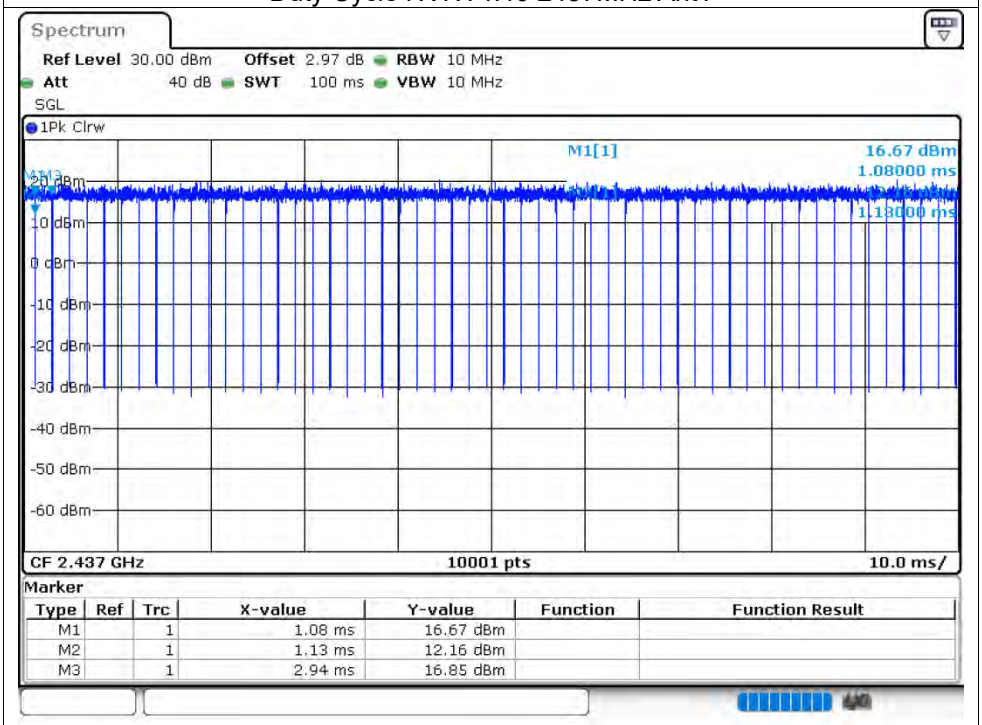
Duty Cycle NVNT n20 2462MHz Ant1



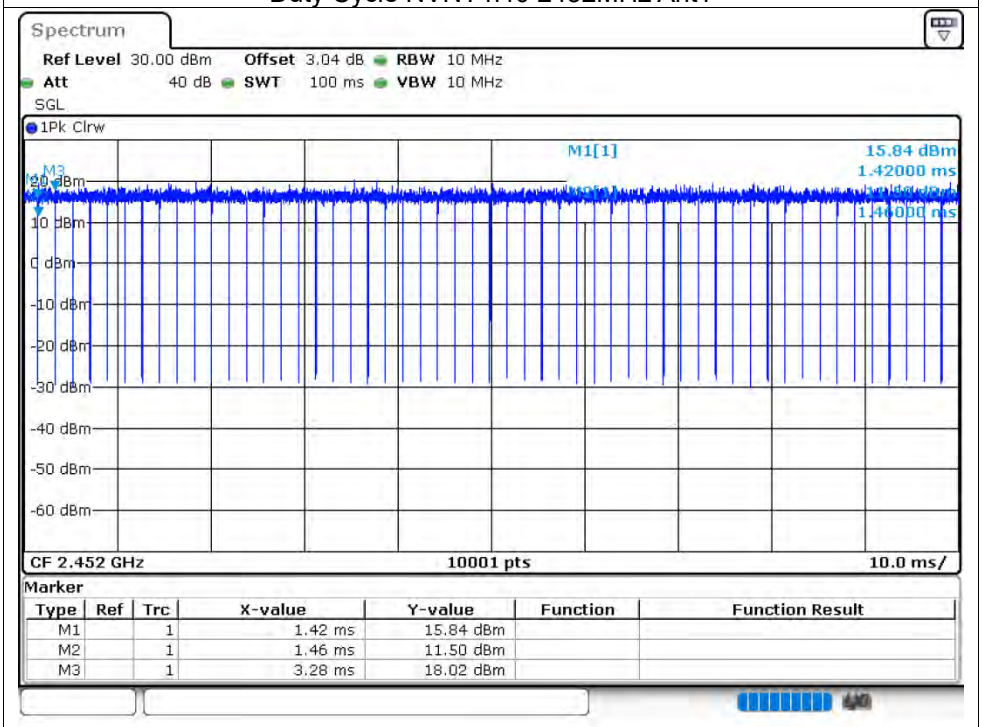
Duty Cycle NVNT n40 2422MHz Ant1



Duty Cycle NVNT n40 2437MHz Ant1



Duty Cycle NVNT n40 2452MHz Ant1



8.2 MAXIMUM CONDUCTED OUTPUT POWER

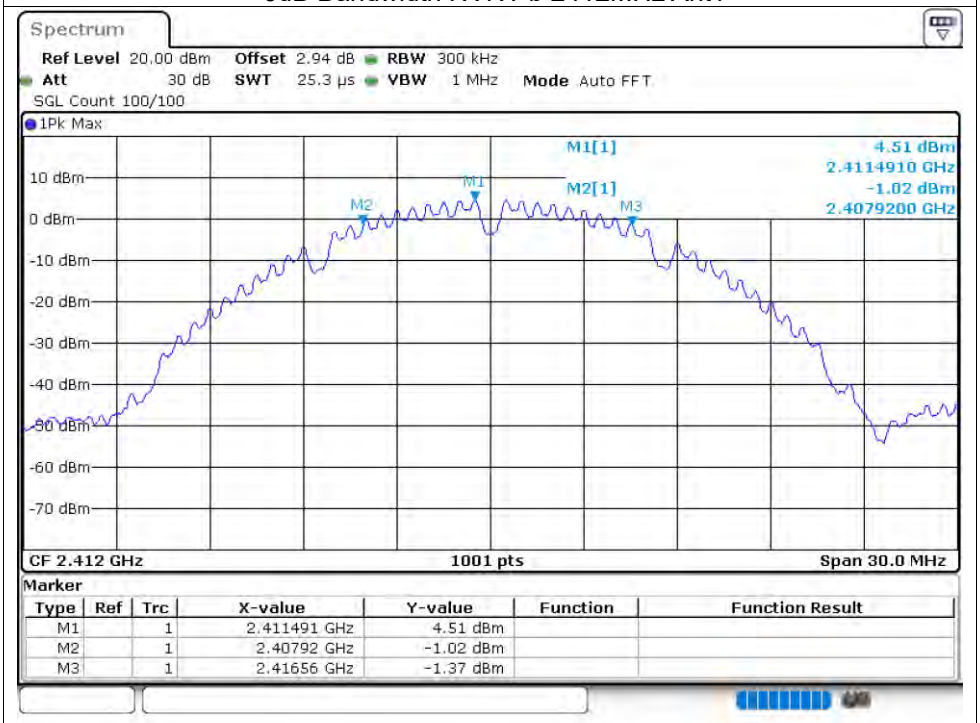
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	12.79	0.03	12.82	30	Pass
NVNT	b	2437	Ant1	12.88	0.04	12.92	30	Pass
NVNT	b	2462	Ant1	12.24	0.03	12.27	30	Pass
NVNT	g	2412	Ant1	11.26	0.05	11.31	30	Pass
NVNT	g	2437	Ant1	11.65	0.05	11.7	30	Pass
NVNT	g	2462	Ant1	11.43	0.05	11.48	30	Pass
NVNT	n20	2412	Ant1	10.91	0.06	10.97	30	Pass
NVNT	n20	2437	Ant1	11.57	0.06	11.63	30	Pass
NVNT	n20	2462	Ant1	11.47	0.06	11.53	30	Pass
NVNT	n40	2422	Ant1	10.69	0.34	11.03	30	Pass
NVNT	n40	2437	Ant1	11.75	0.34	12.09	30	Pass
NVNT	n40	2452	Ant1	11.79	0.34	12.13	30	Pass

8.3 -6dB Bandwidth

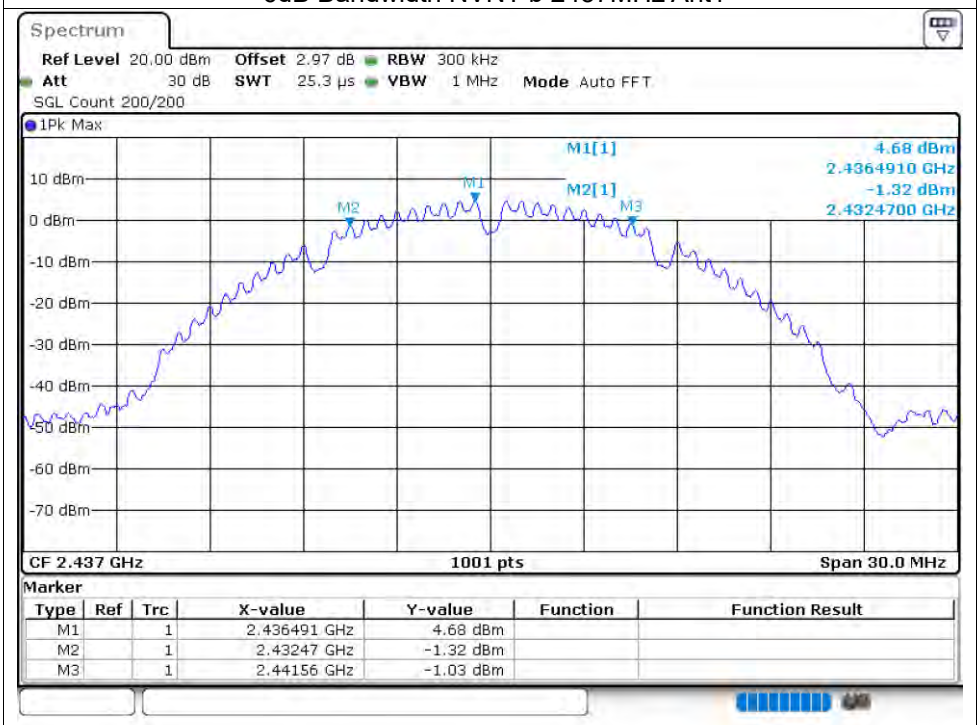
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	8.64	0.5	Pass
NVNT	b	2437	Ant1	9.09	0.5	Pass
NVNT	b	2462	Ant1	9.063	0.5	Pass
NVNT	g	2412	Ant1	16.347	0.5	Pass
NVNT	g	2437	Ant1	16.344	0.5	Pass
NVNT	g	2462	Ant1	16.278	0.5	Pass
NVNT	n20	2412	Ant1	17.475	0.5	Pass
NVNT	n20	2437	Ant1	17.598	0.5	Pass
NVNT	n20	2462	Ant1	17.448	0.5	Pass
NVNT	n40	2422	Ant1	36.036	0.5	Pass
NVNT	n40	2437	Ant1	36.372	0.5	Pass
NVNT	n40	2452	Ant1	36.108	0.5	Pass

Test Graphs

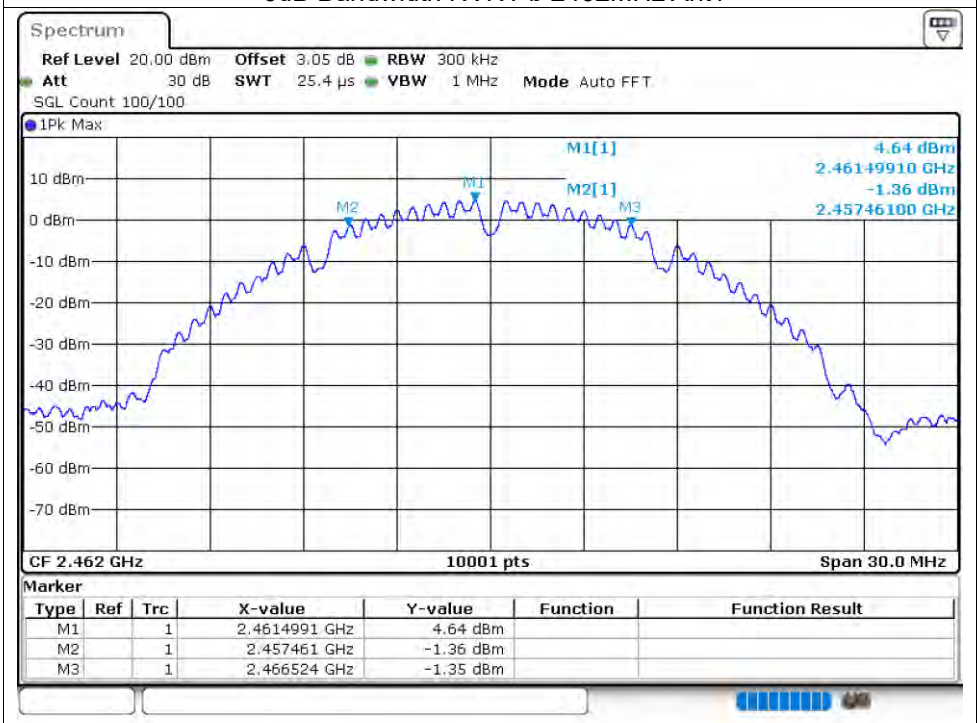
-6dB Bandwidth NVNT b 2412MHz Ant1



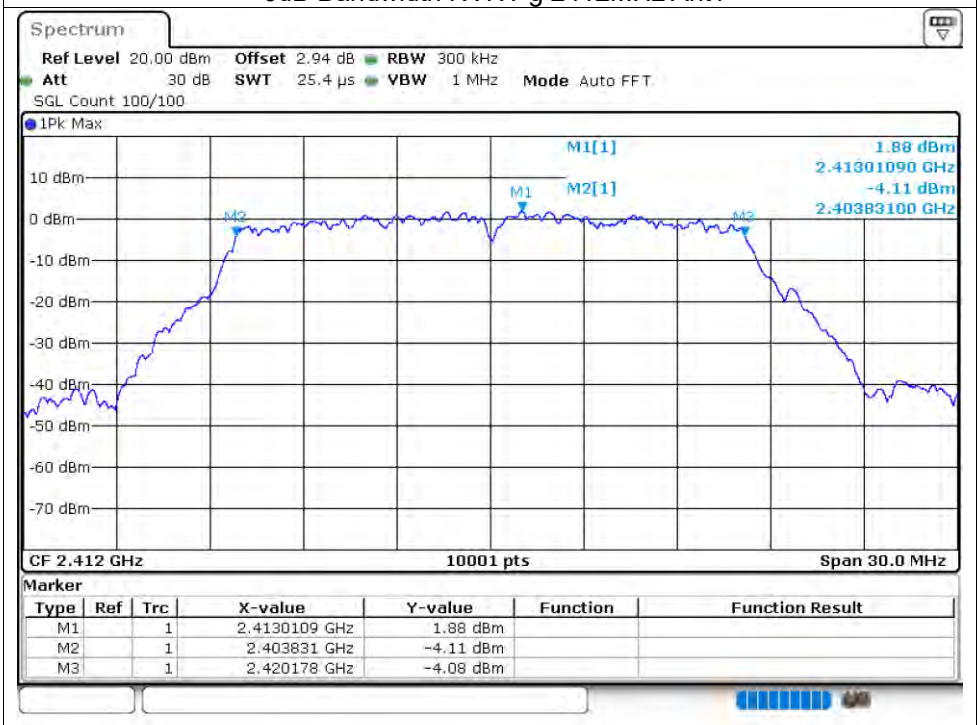
-6dB Bandwidth NVNT b 2437MHz Ant1



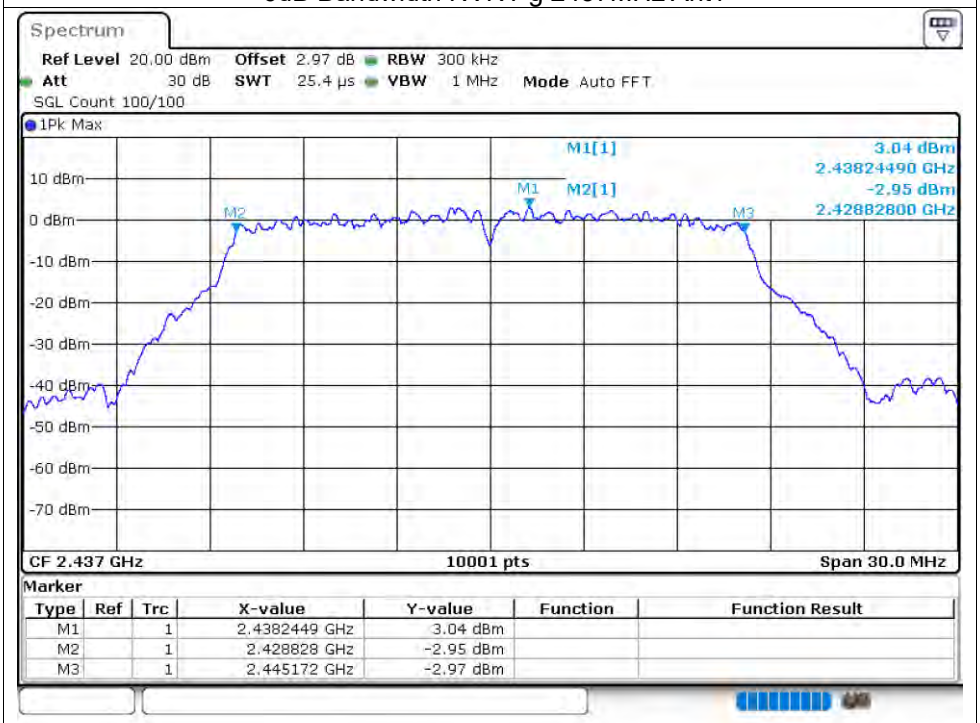
-6dB Bandwidth NVNT b 2462MHz Ant1



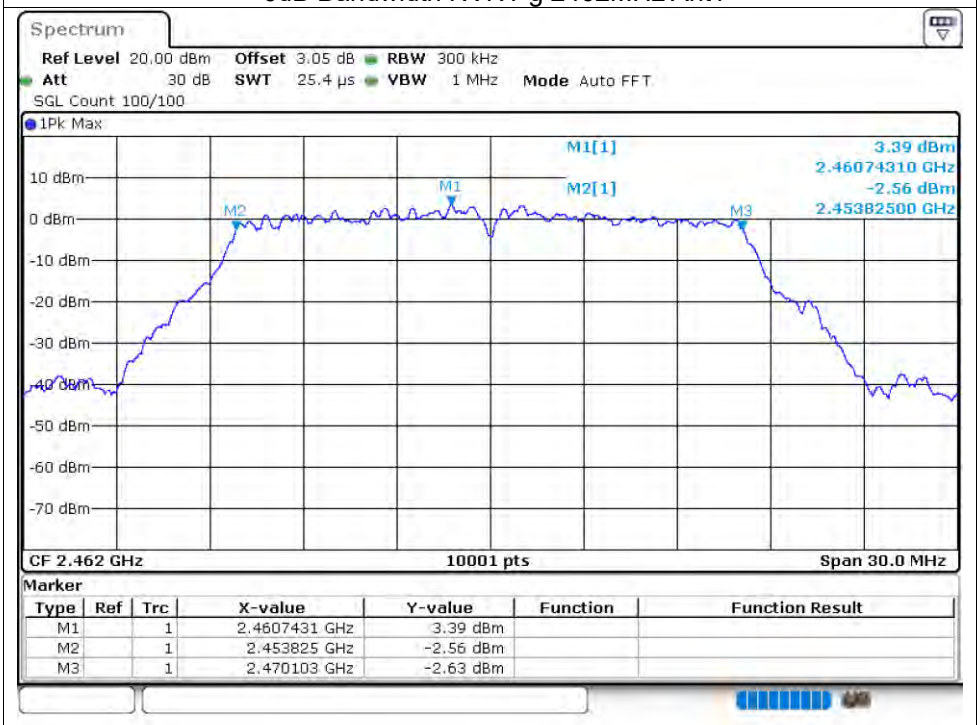
-6dB Bandwidth NVNT g 2412MHz Ant1



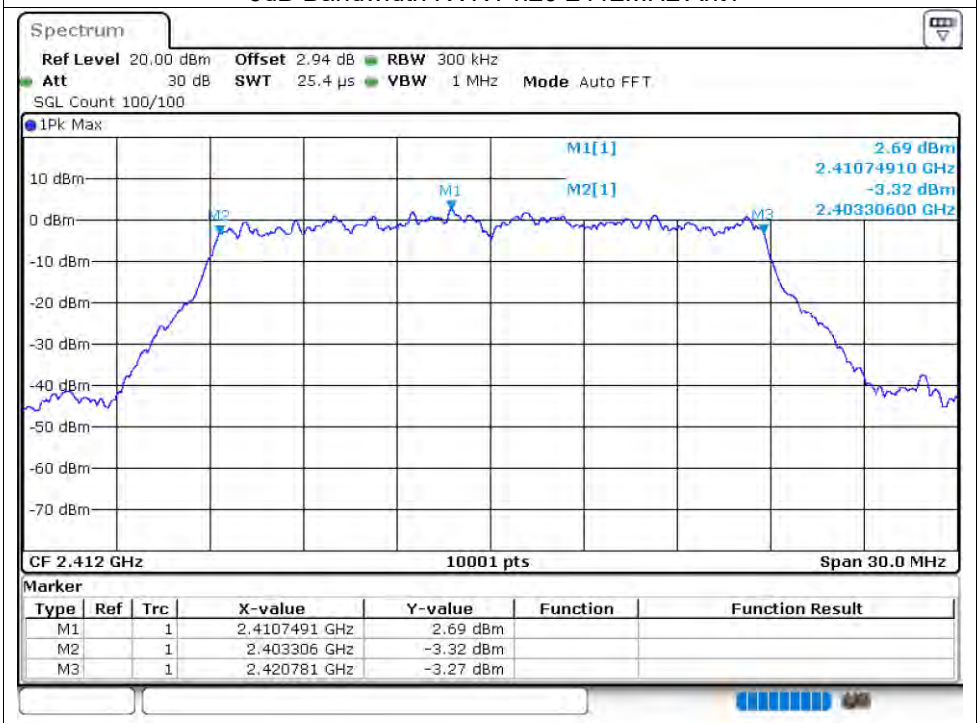
-6dB Bandwidth NVNT g 2437MHz Ant1



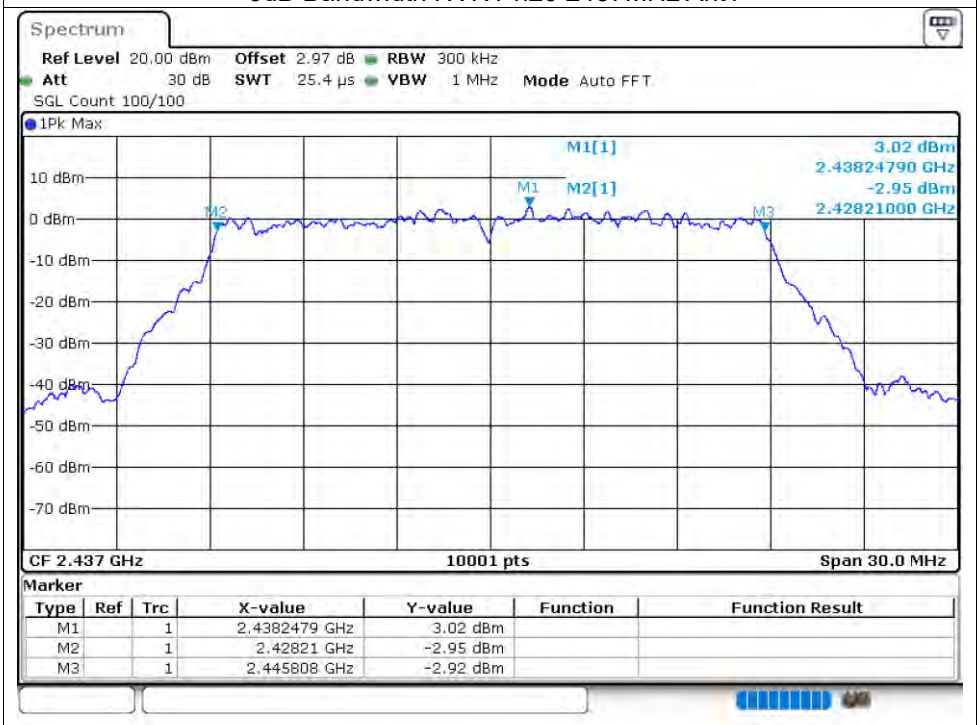
-6dB Bandwidth NVNT g 2462MHz Ant1



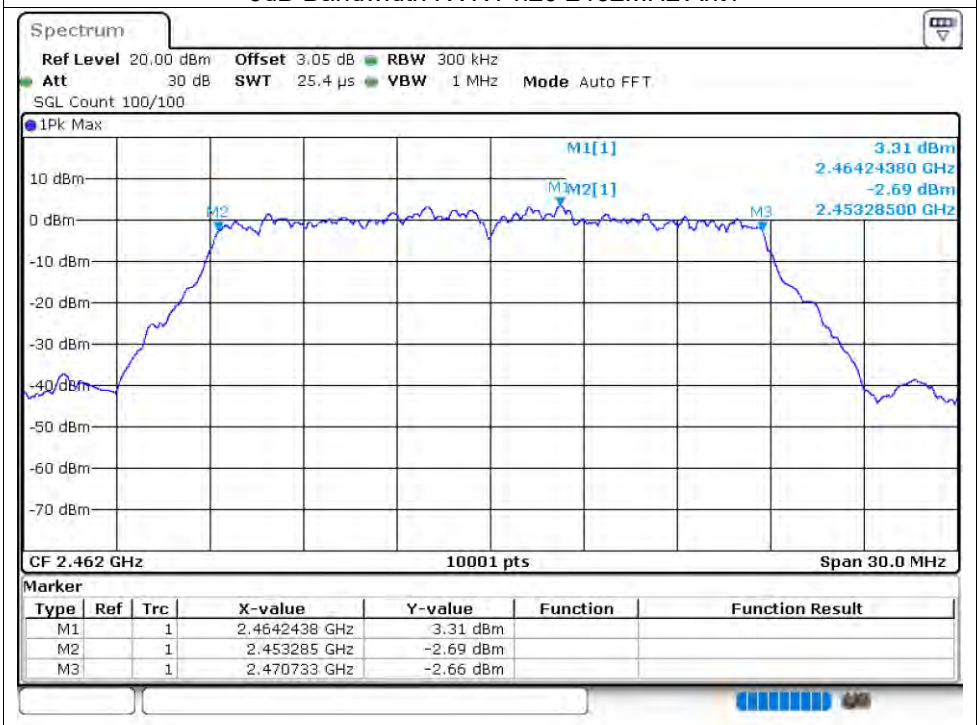
-6dB Bandwidth NVNT n20 2412MHz Ant1



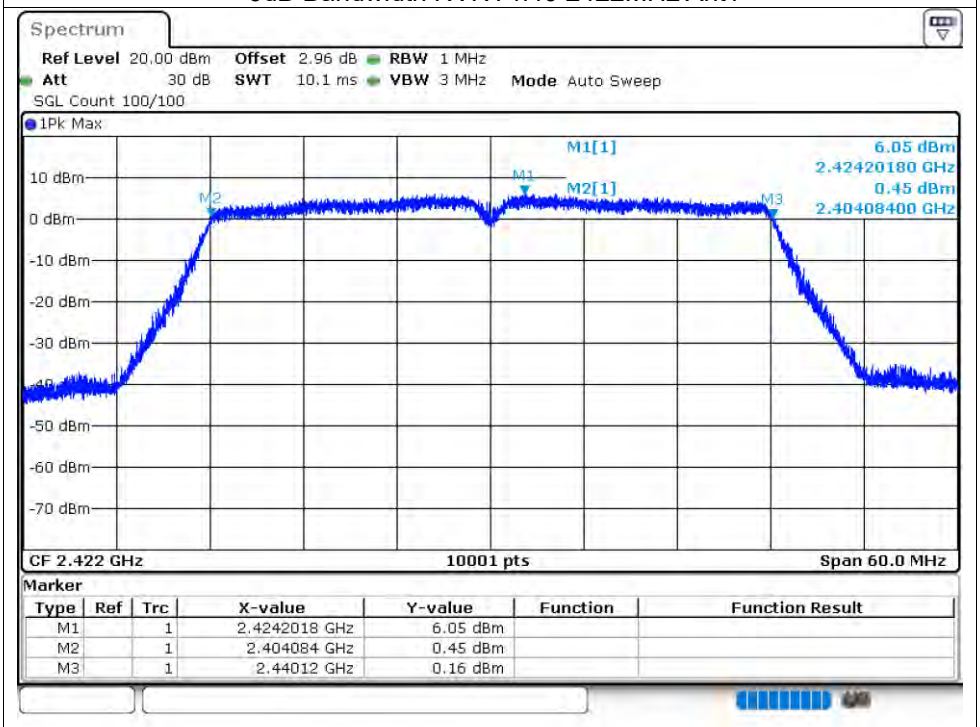
-6dB Bandwidth NVNT n20 2437MHz Ant1



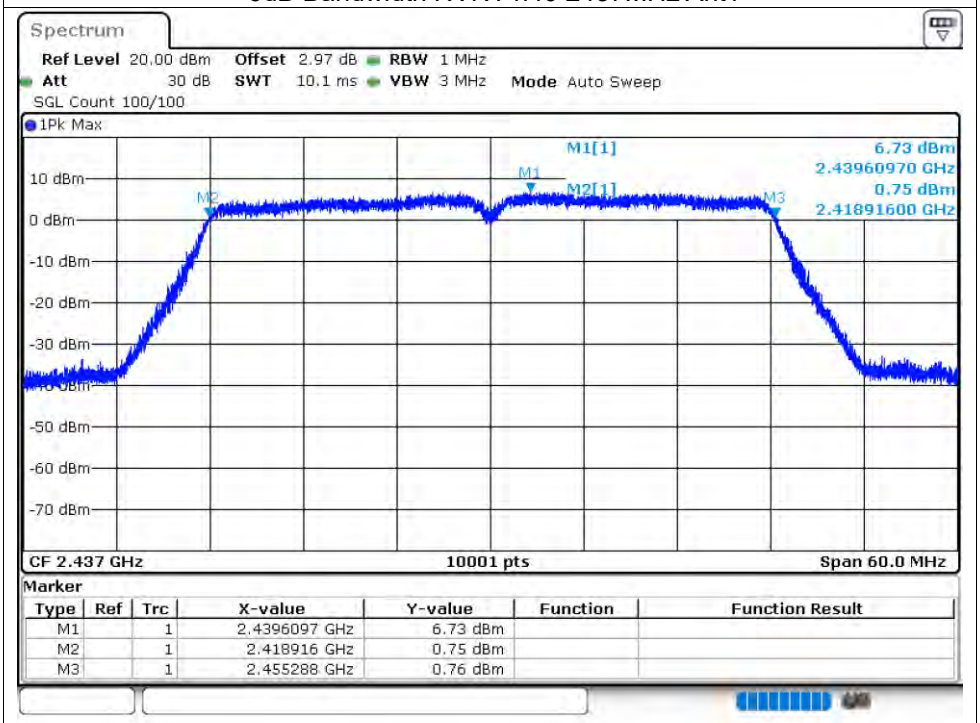
-6dB Bandwidth NVNT n20 2462MHz Ant1



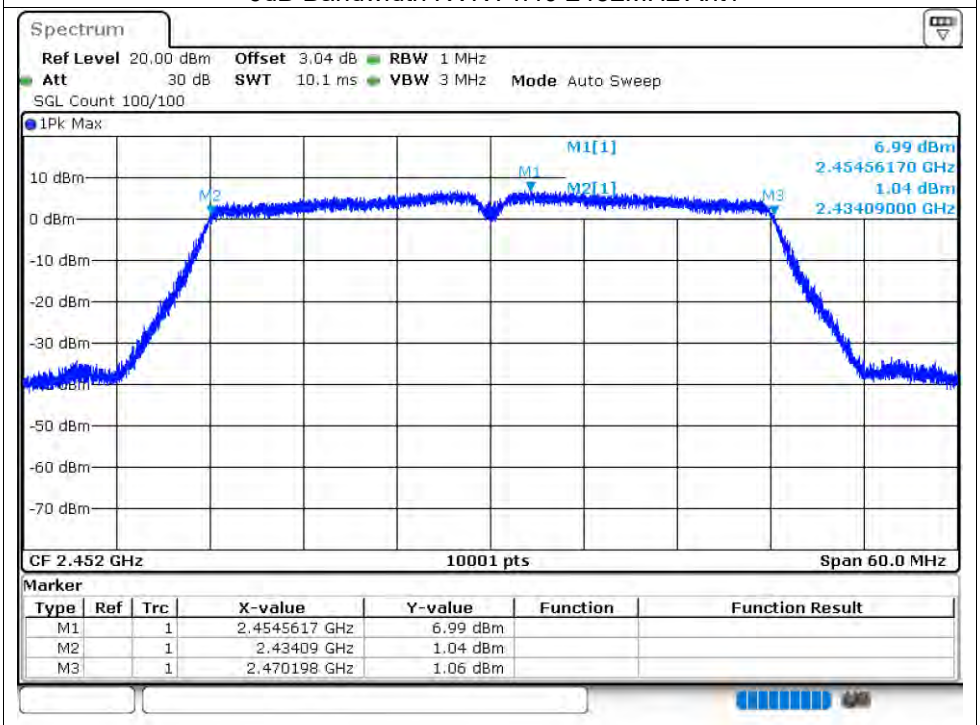
-6dB Bandwidth NVNT n40 2422MHz Ant1



-6dB Bandwidth NVNT n40 2437MHz Ant1



-6dB Bandwidth NVNT n40 2452MHz Ant1



8.4 MAXIMUM POWER SPECTRAL DENSITY LEVEL

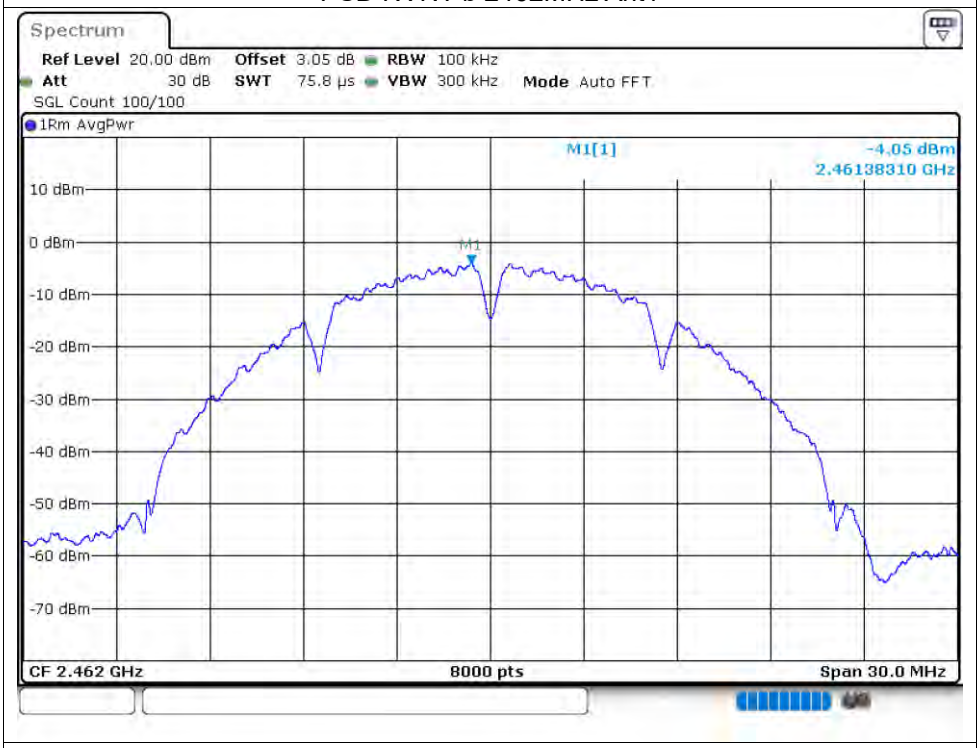
Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
NVNT	b	2412	Ant1	-4.07	8	Pass
NVNT	b	2437	Ant1	-4.01	8	Pass
NVNT	b	2462	Ant1	-4.05	8	Pass
NVNT	g	2412	Ant1	-8.18	8	Pass
NVNT	g	2437	Ant1	-7.03	8	Pass
NVNT	g	2462	Ant1	-7.94	8	Pass
NVNT	n20	2412	Ant1	-8.76	8	Pass
NVNT	n20	2437	Ant1	-8.22	8	Pass
NVNT	n20	2462	Ant1	-7.27	8	Pass
NVNT	n40	2422	Ant1	-11.37	8	Pass
NVNT	n40	2437	Ant1	-10.38	8	Pass
NVNT	n40	2452	Ant1	-10.02	8	Pass

Test Graphs

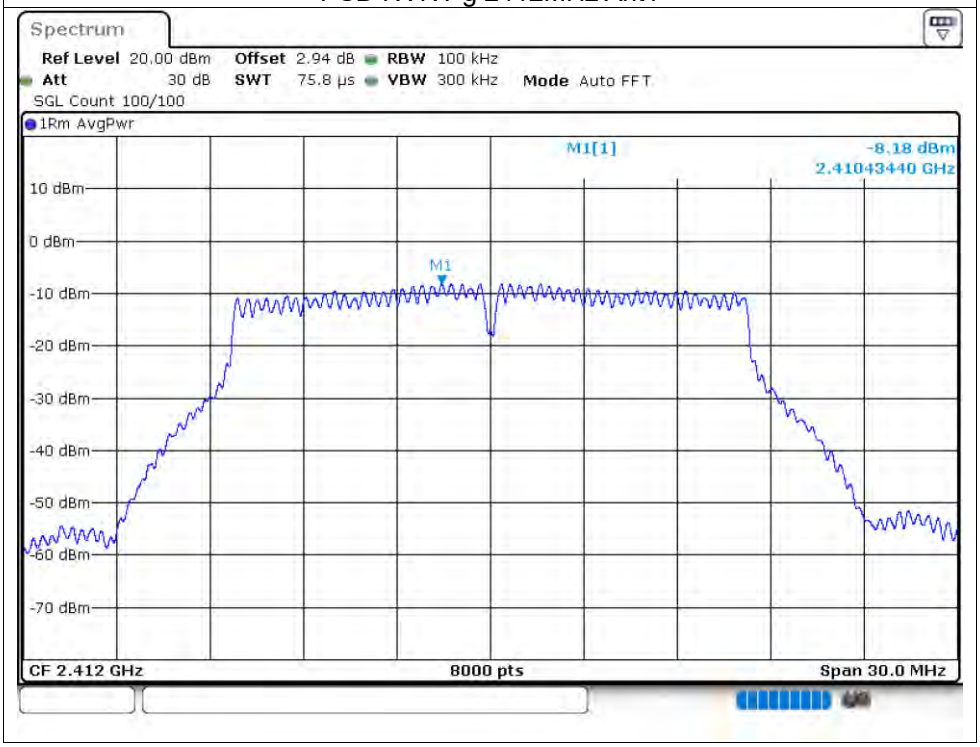
PSD NVNT b 2412MHz Ant1

PSD NVNT b 2437MHz Ant1

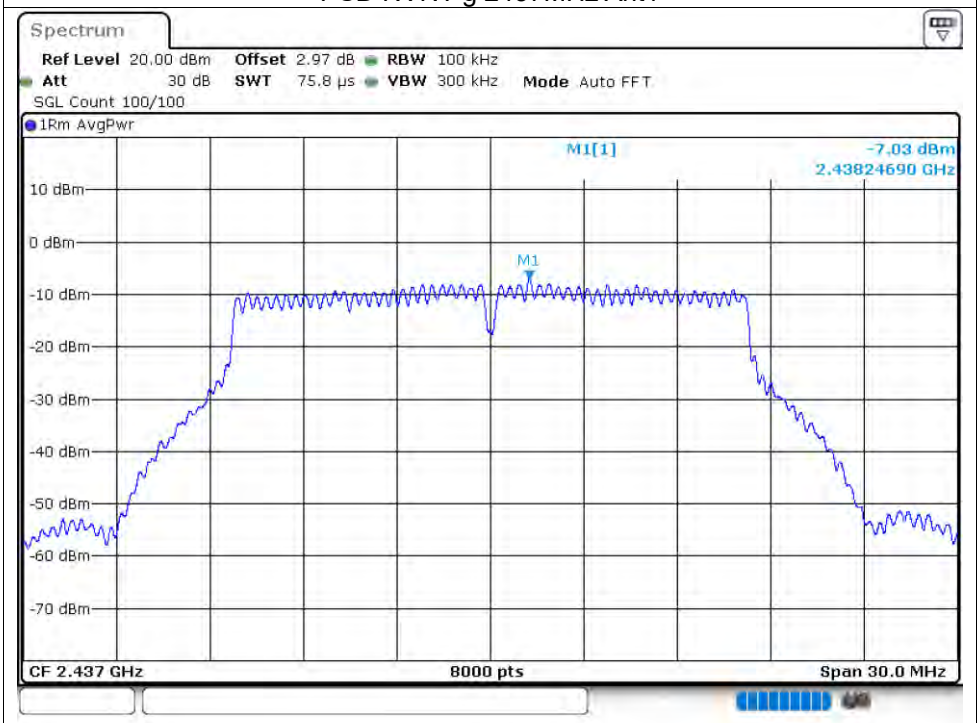
PSD NVNT b 2462MHz Ant1



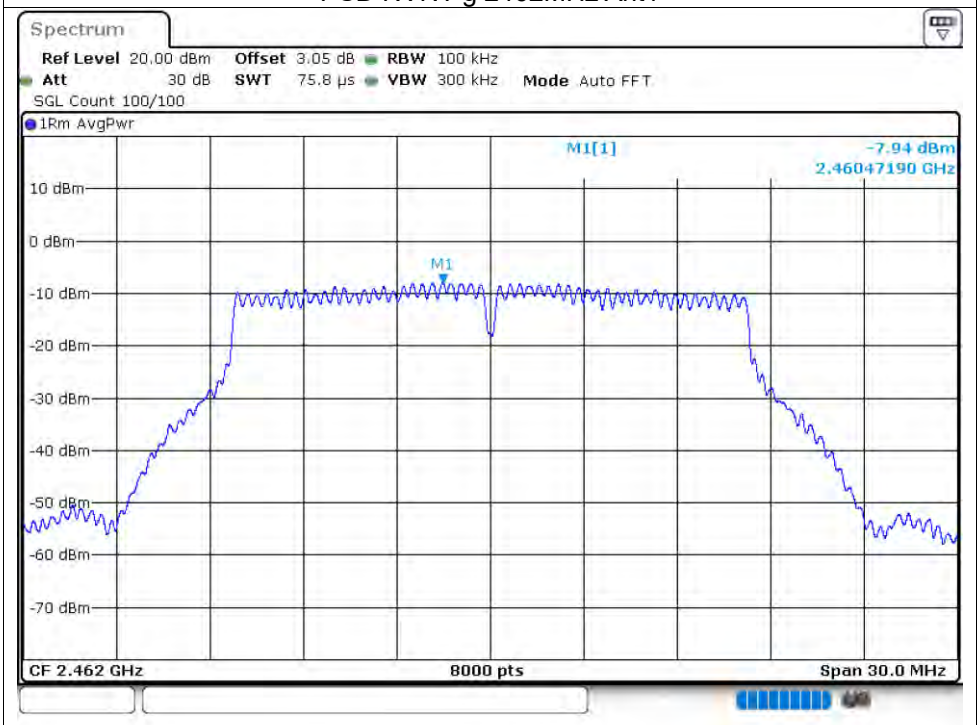
PSD NVNT g 2412MHz Ant1



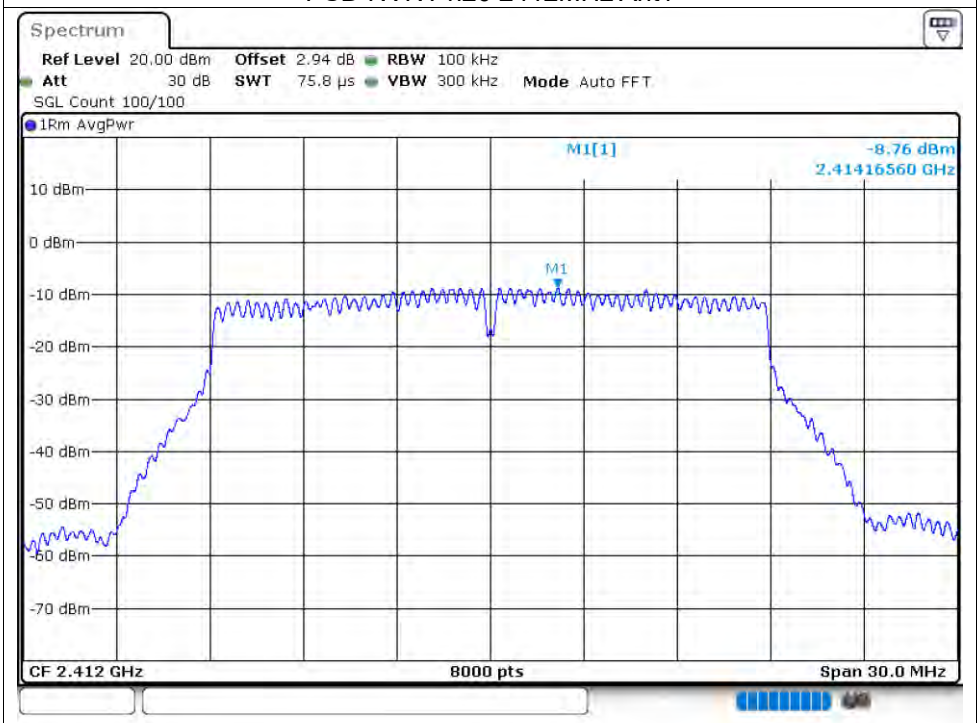
PSD NVNT g 2437MHz Ant1



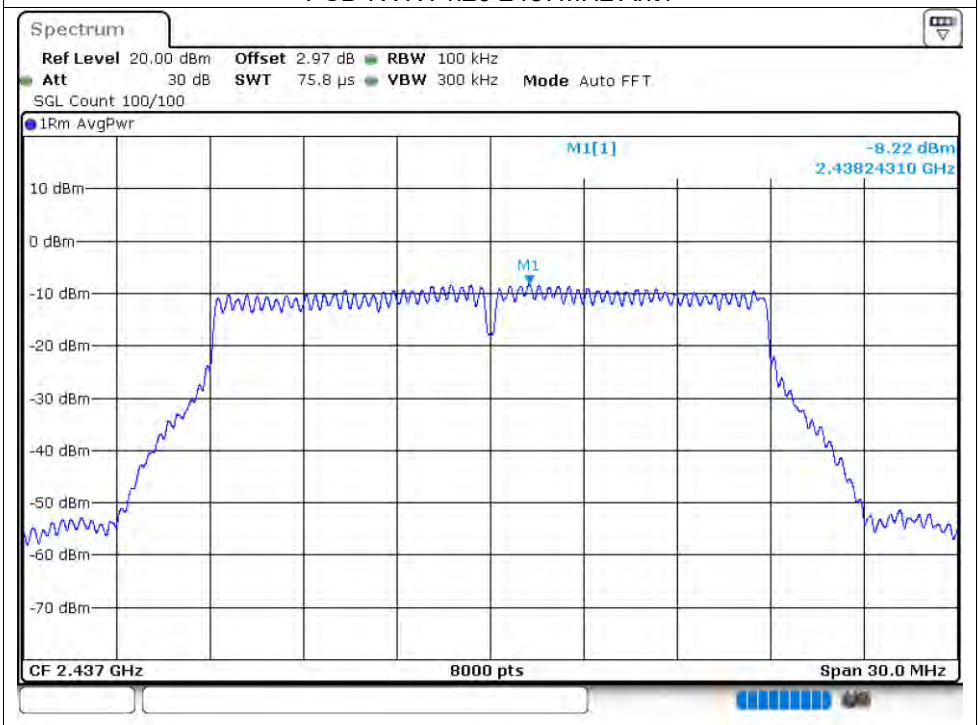
PSD NVNT g 2462MHz Ant1



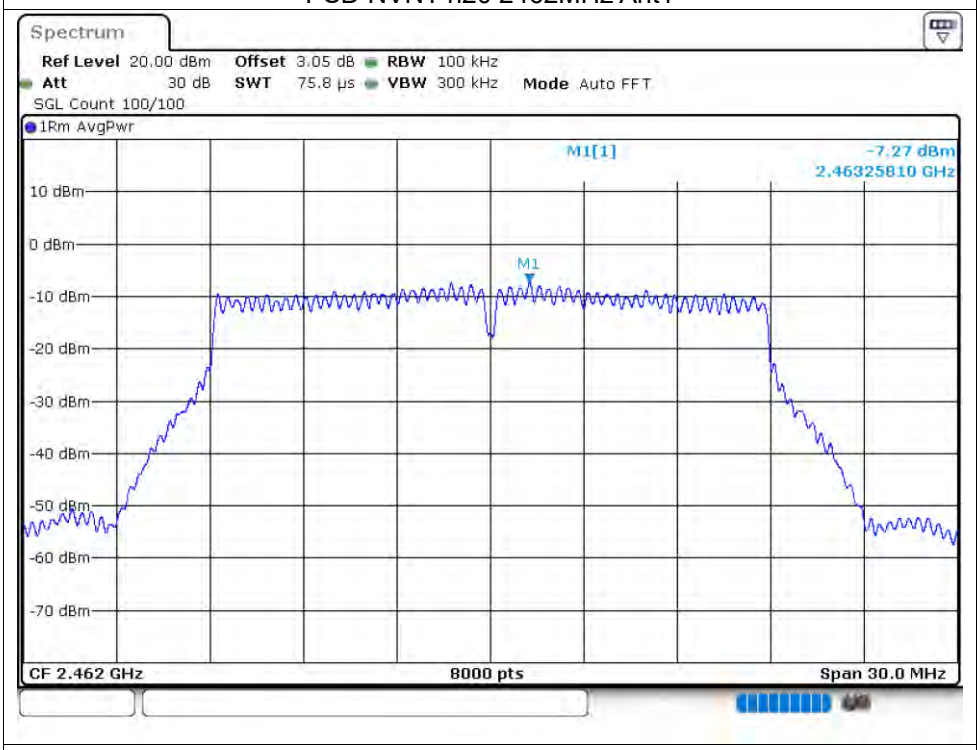
PSD NVNT n20 2412MHz Ant1



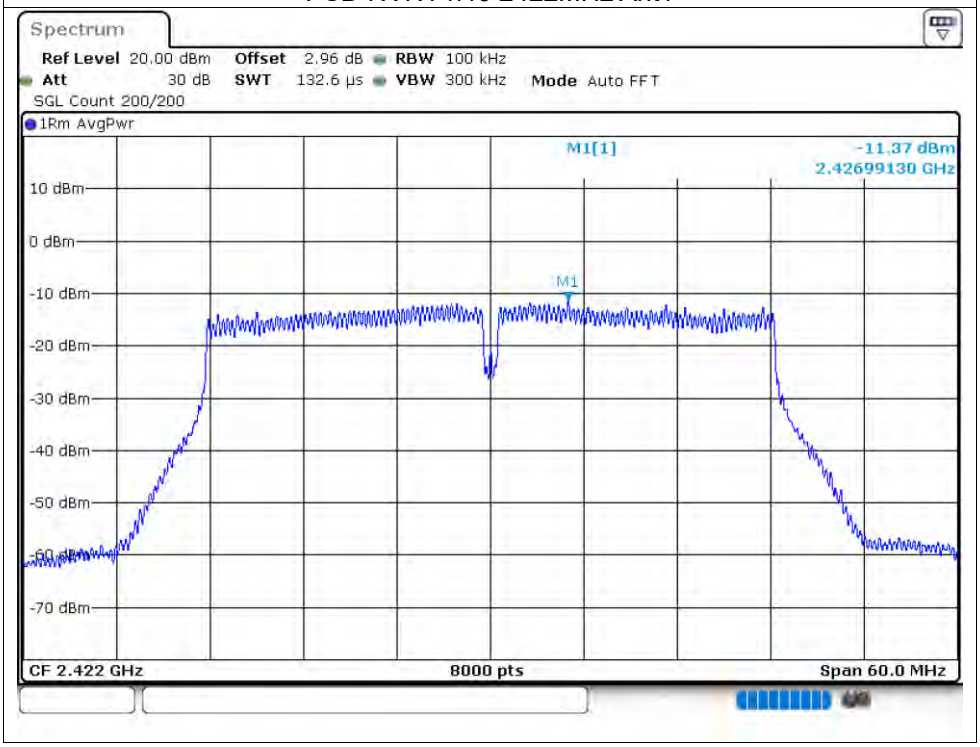
PSD NVNT n20 2437MHz Ant1



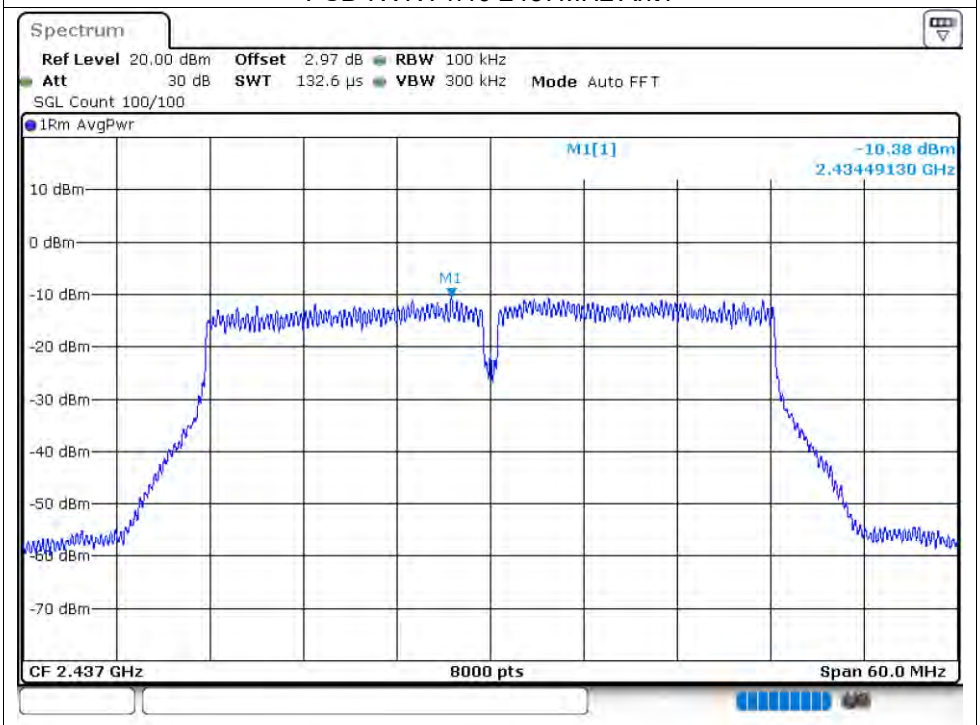
PSD NVNT n20 2462MHz Ant1



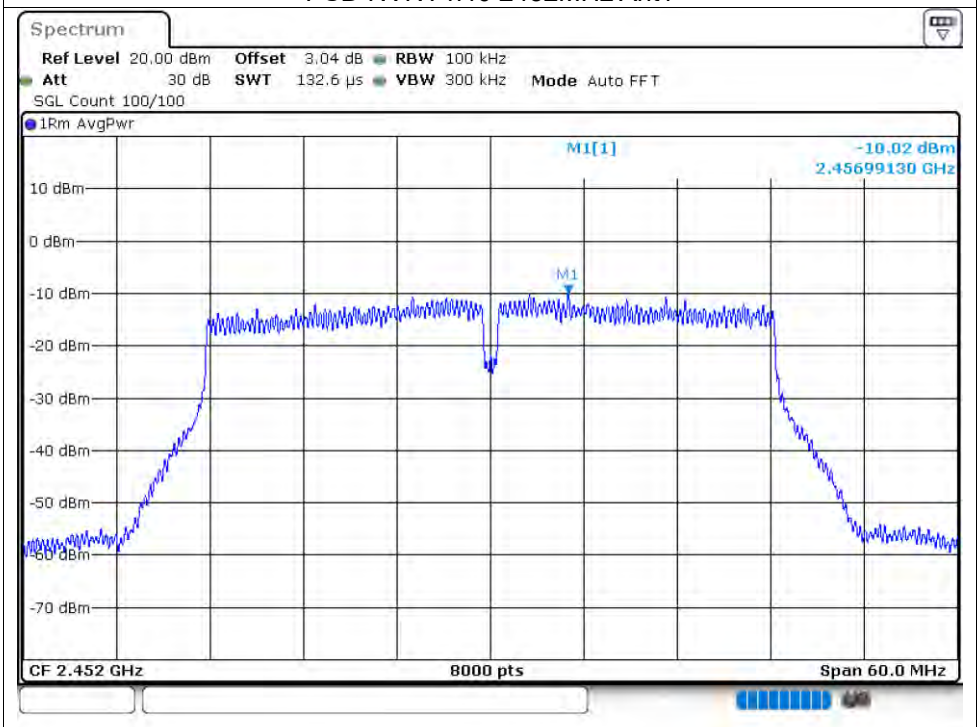
PSD NVNT n40 2422MHz Ant1



PSD NVNT n40 2437MHz Ant1



PSD NVNT n40 2452MHz Ant1

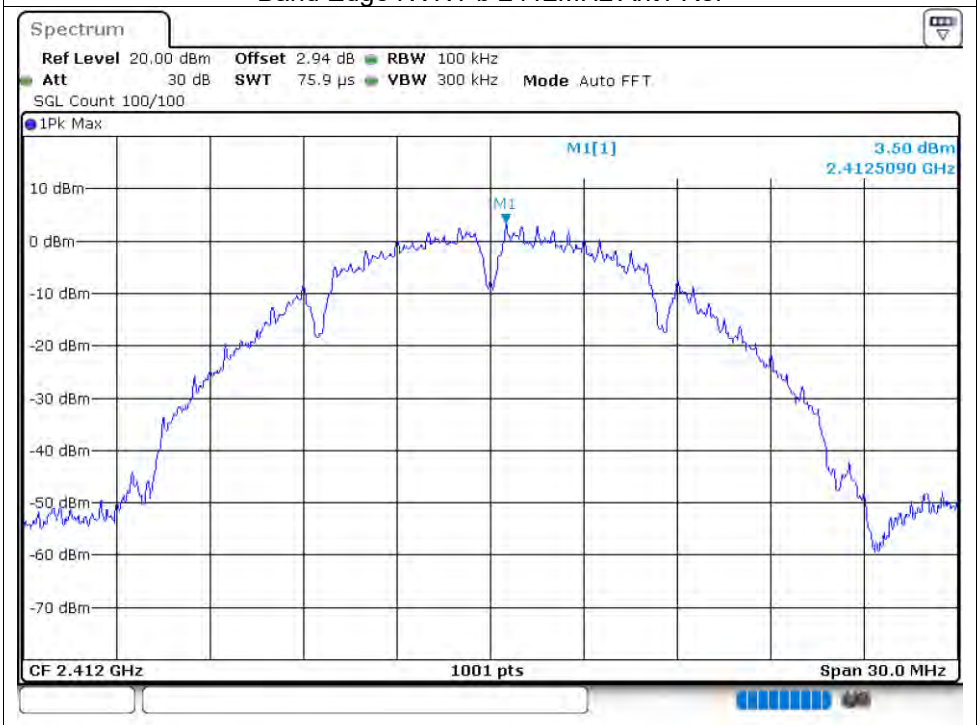


8.5 BAND EDGE

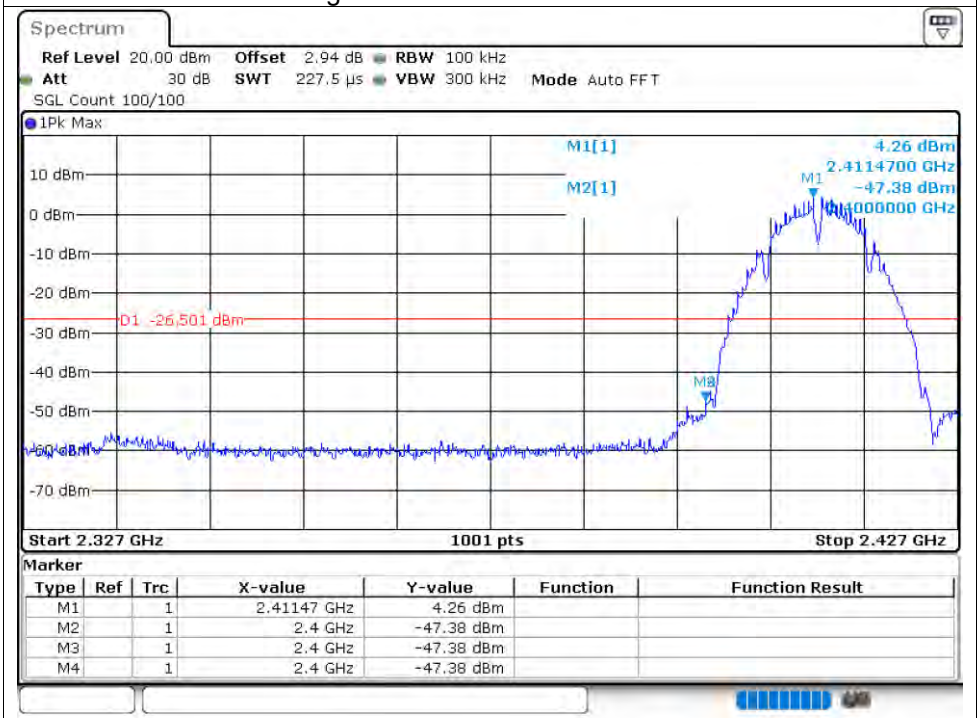
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-50.88	-30	Pass
NVNT	b	2462	Ant1	-60.12	-30	Pass
NVNT	g	2412	Ant1	-46.48	-30	Pass
NVNT	g	2462	Ant1	-50.76	-30	Pass
NVNT	n20	2412	Ant1	-47.05	-30	Pass
NVNT	n20	2462	Ant1	-53.47	-30	Pass
NVNT	n40	2422	Ant1	-39.34	-30	Pass
NVNT	n40	2452	Ant1	-46.27	-30	Pass

Test Graphs

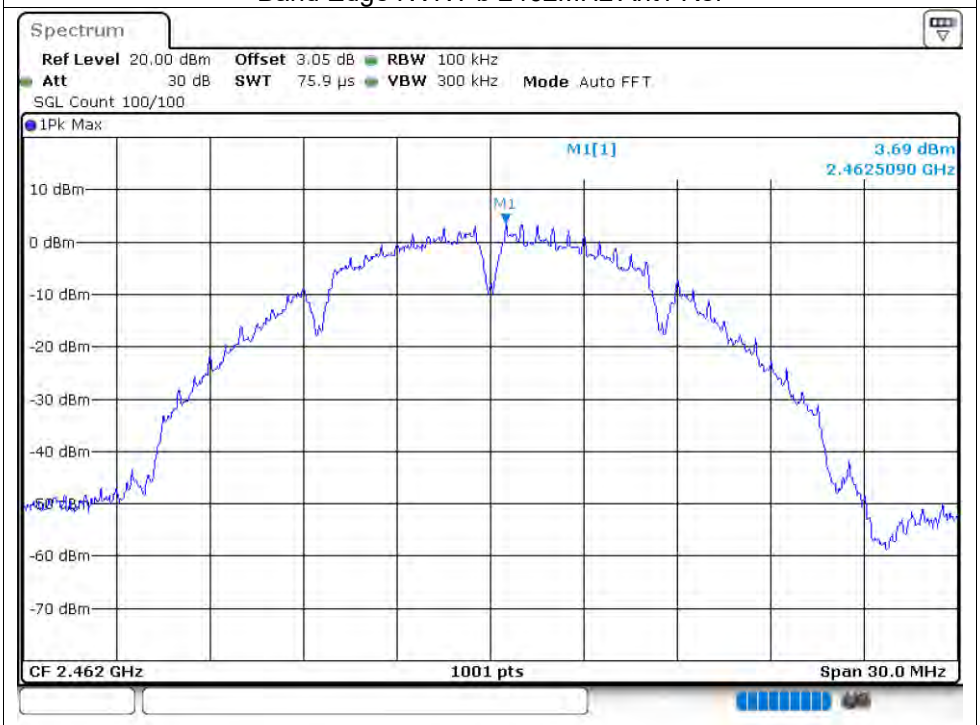
Band Edge NVNT b 2412MHz Ant1 Ref



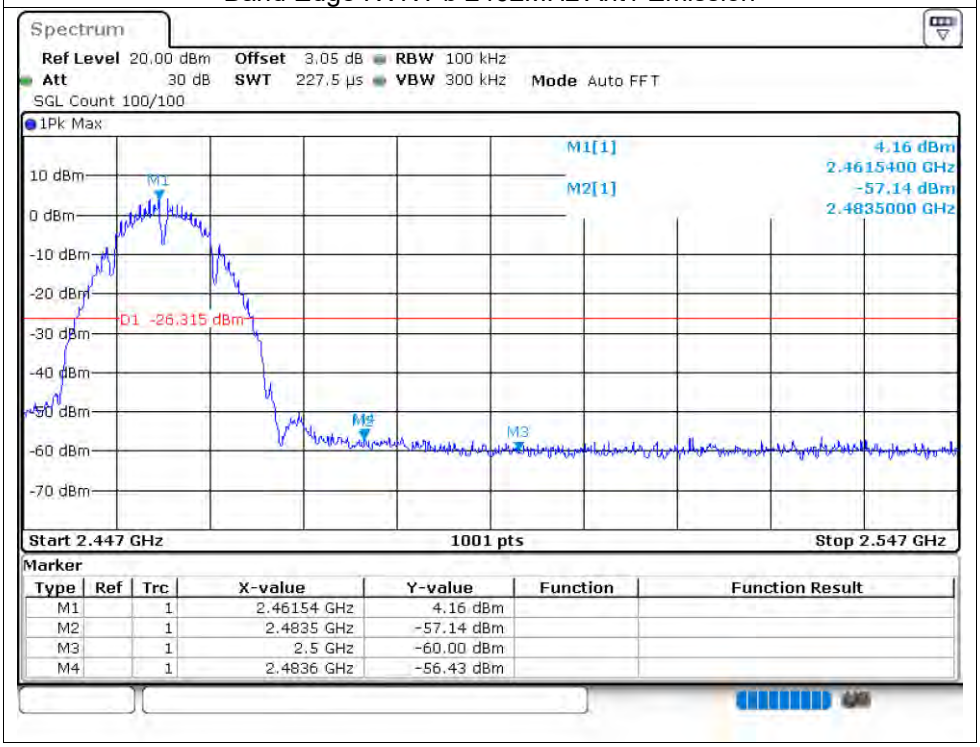
Band Edge NVNT b 2412MHz Ant1 Emission



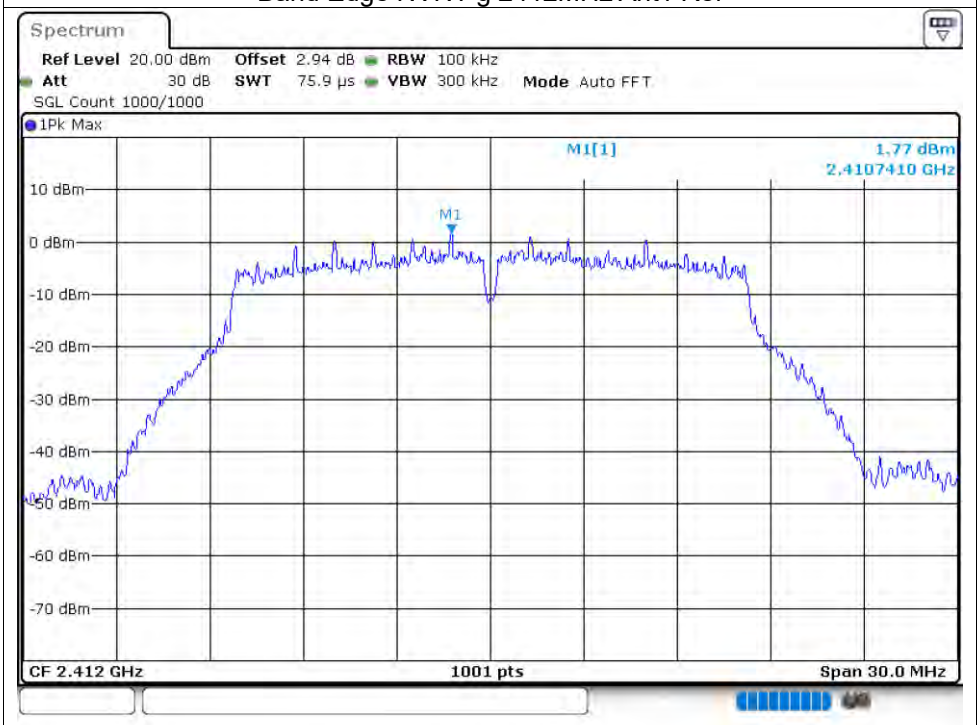
Band Edge NVNT b 2462MHz Ant1 Ref



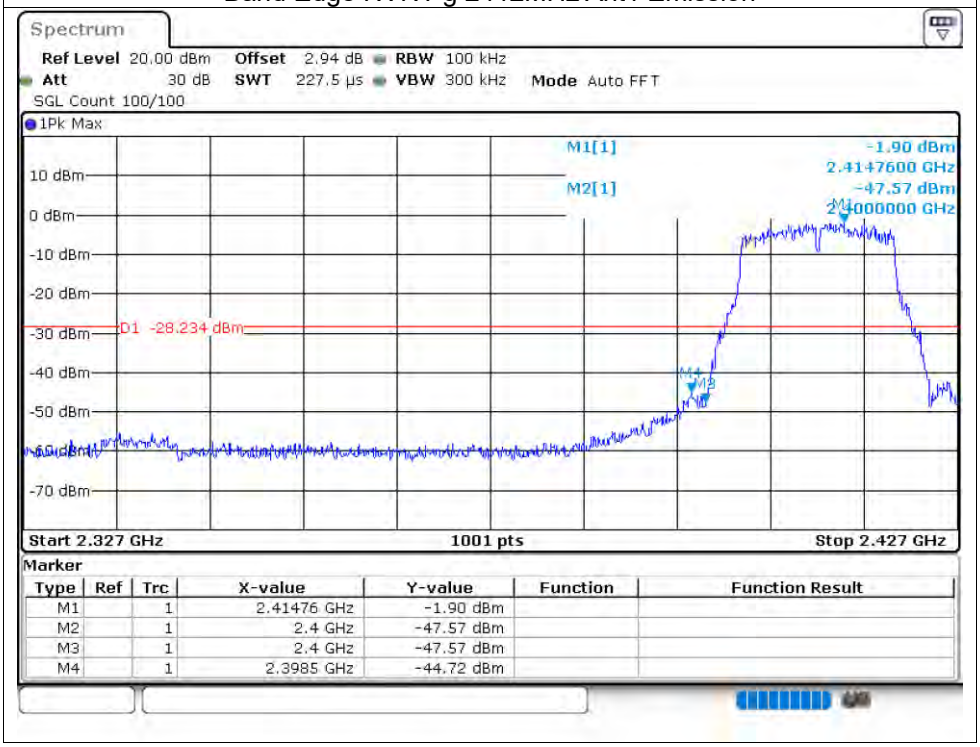
Band Edge NVNT b 2462MHz Ant1 Emission



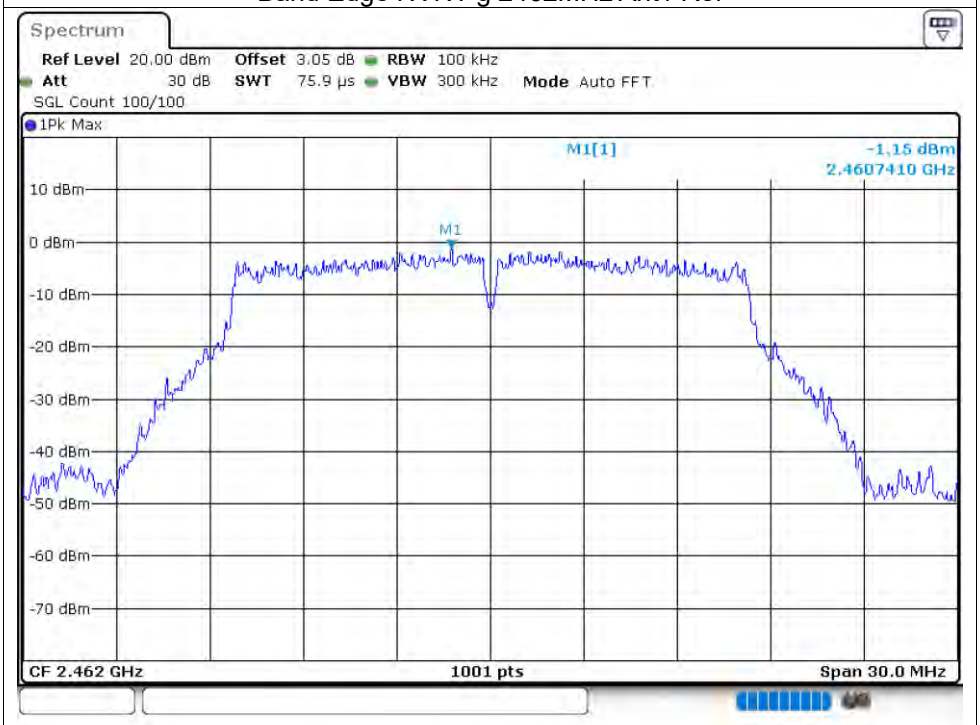
Band Edge NVNT g 2412MHz Ant1 Ref



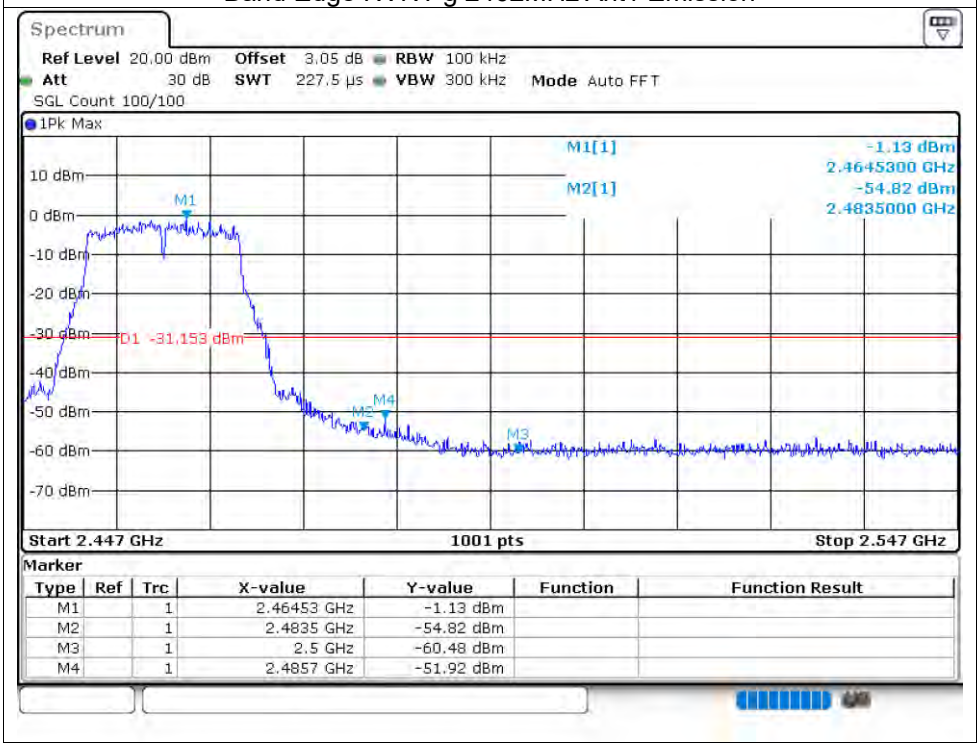
Band Edge NVNT g 2412MHz Ant1 Emission



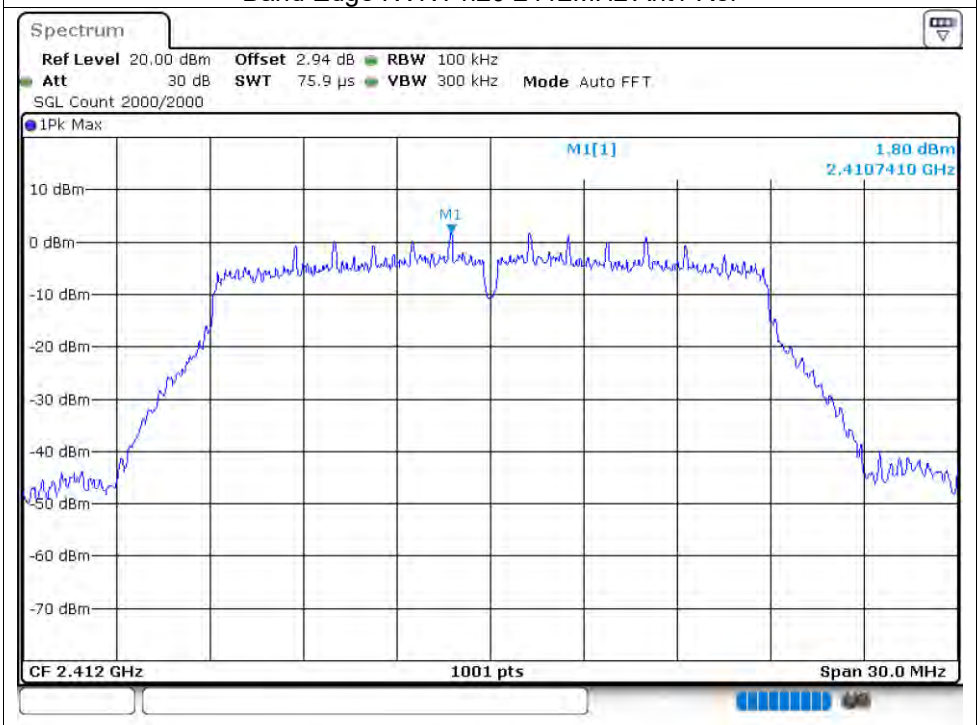
Band Edge NVNT g 2462MHz Ant1 Ref



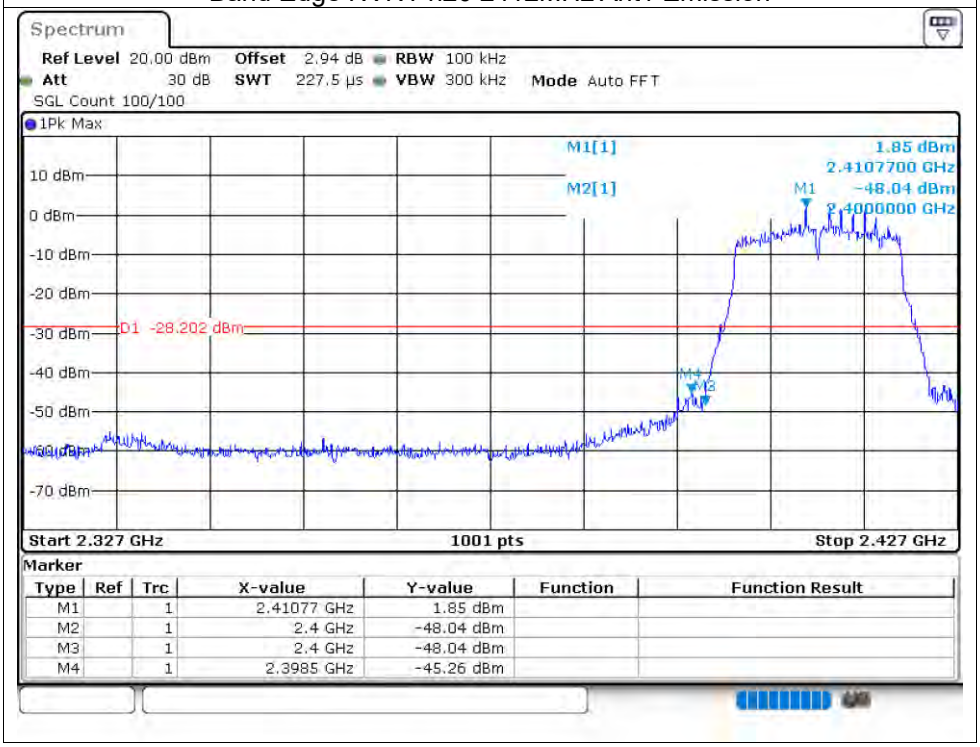
Band Edge NVNT g 2462MHz Ant1 Emission



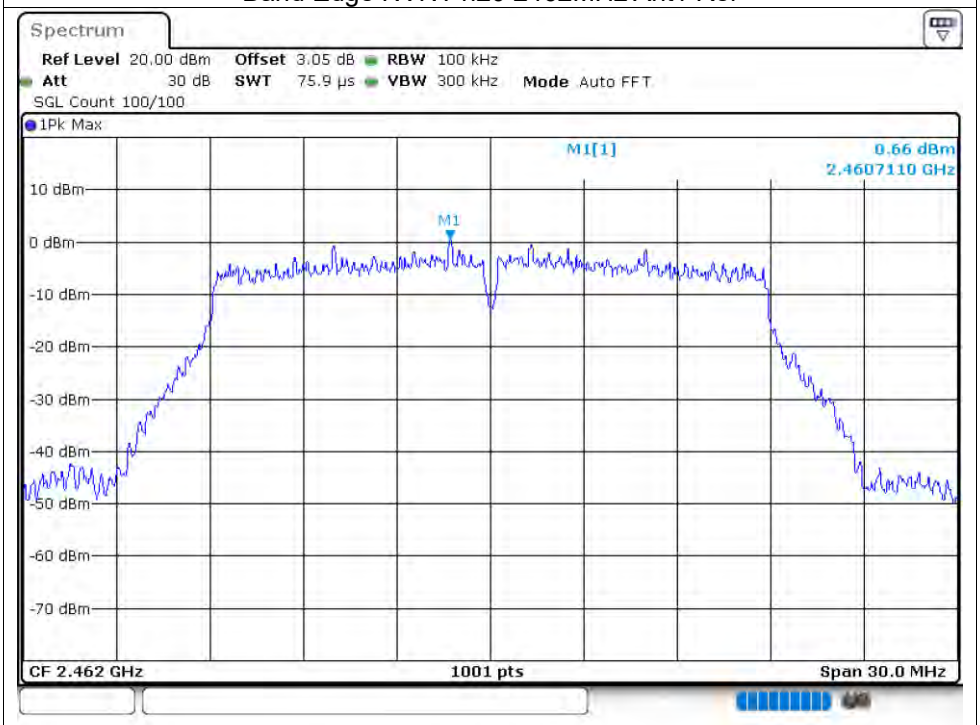
Band Edge NVNT n20 2412MHz Ant1 Ref



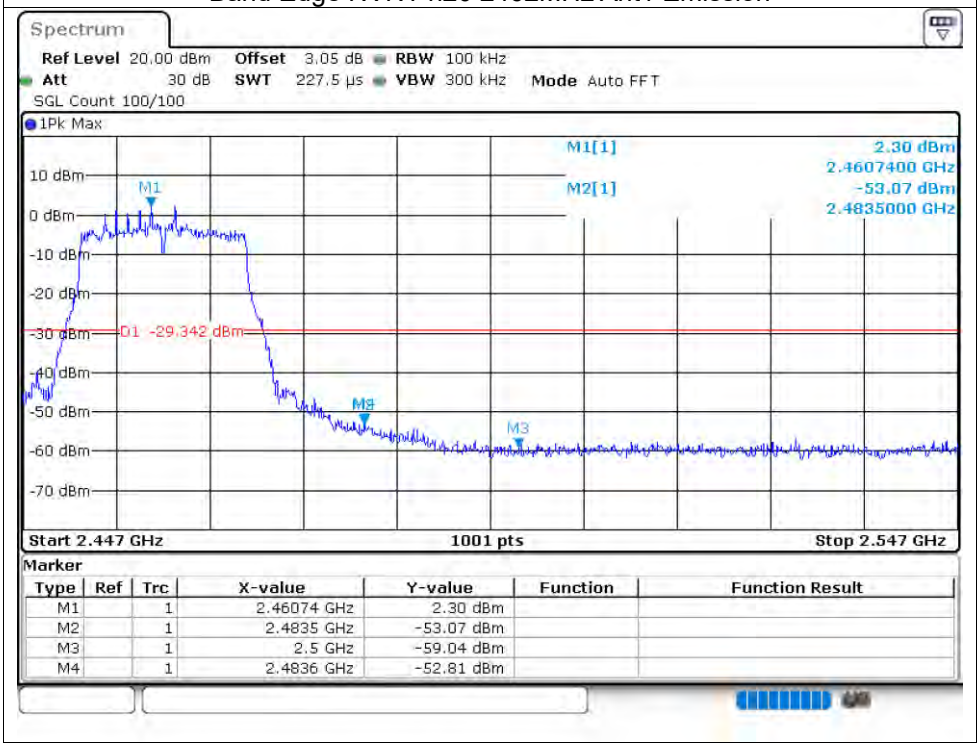
Band Edge NVNT n20 2412MHz Ant1 Emission



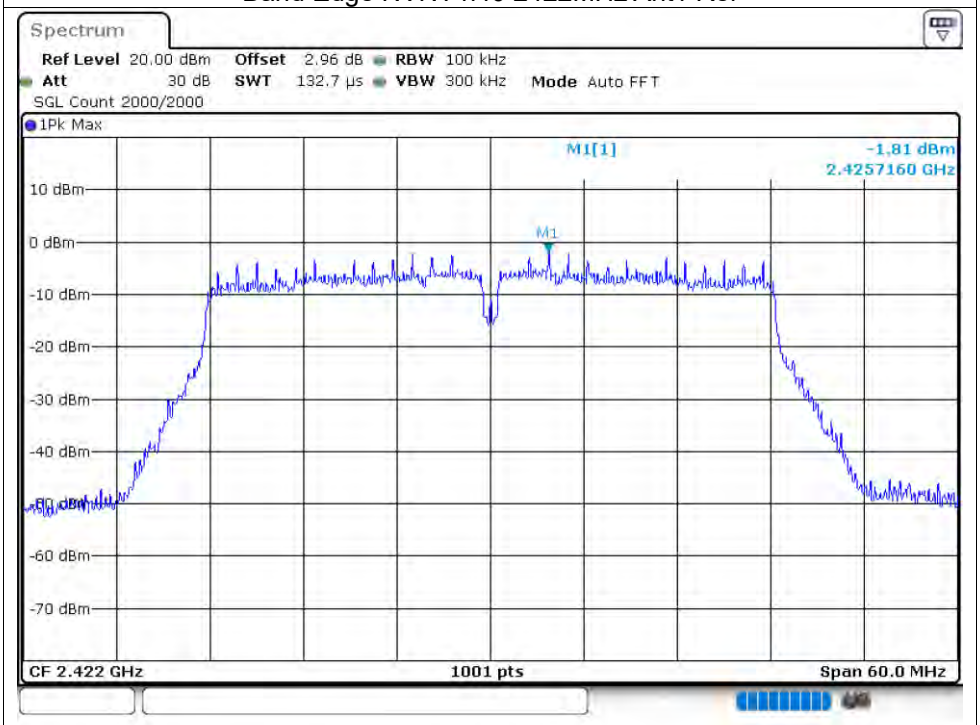
Band Edge NVNT n20 2462MHz Ant1 Ref



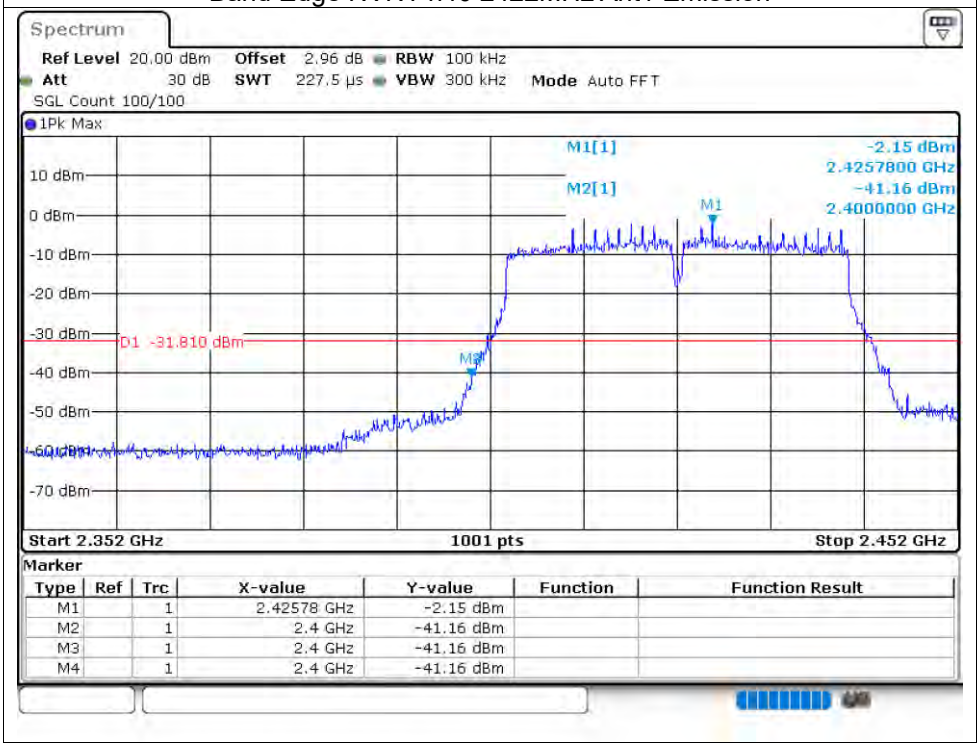
Band Edge NVNT n20 2462MHz Ant1 Emission



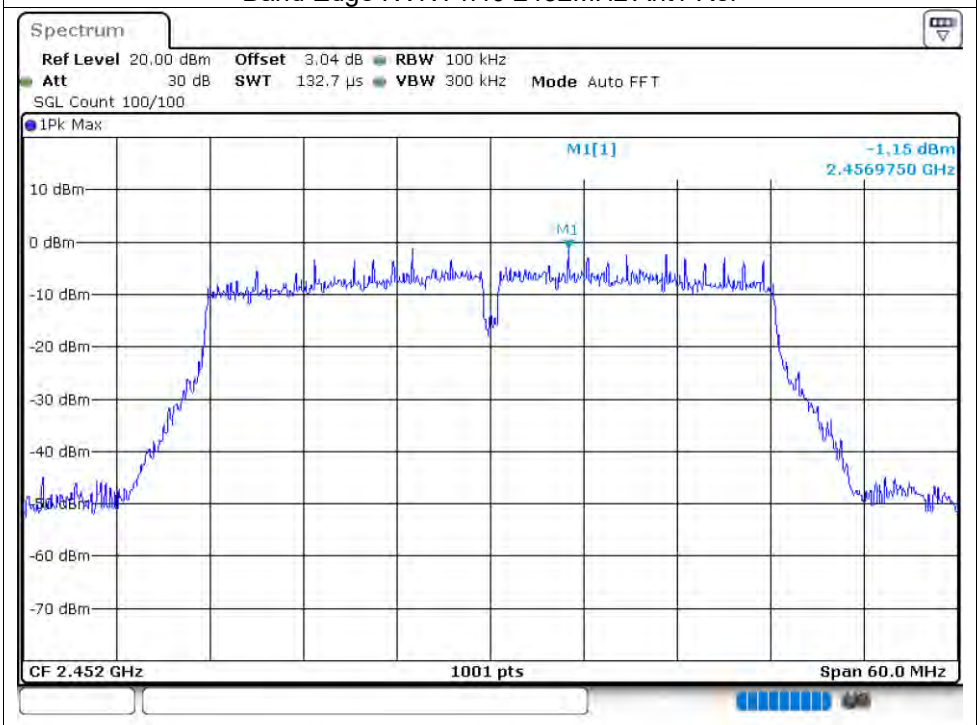
Band Edge NVNT n40 2422MHz Ant1 Ref



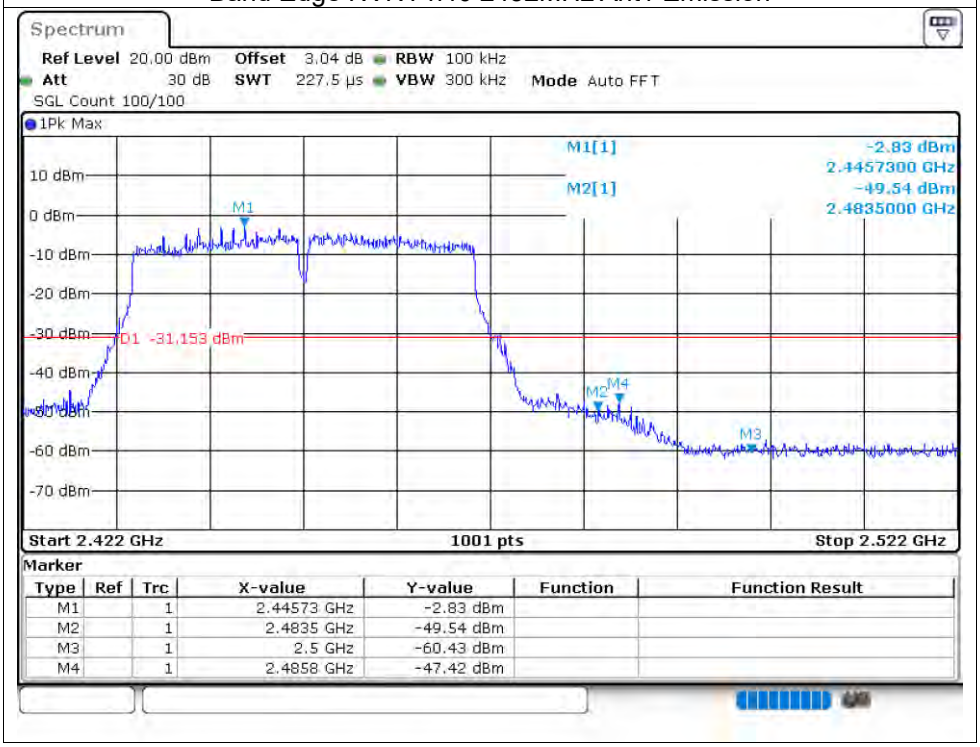
Band Edge NVNT n40 2422MHz Ant1 Emission



Band Edge NVNT n40 2452MHz Ant1 Ref



Band Edge NVNT n40 2452MHz Ant1 Emission

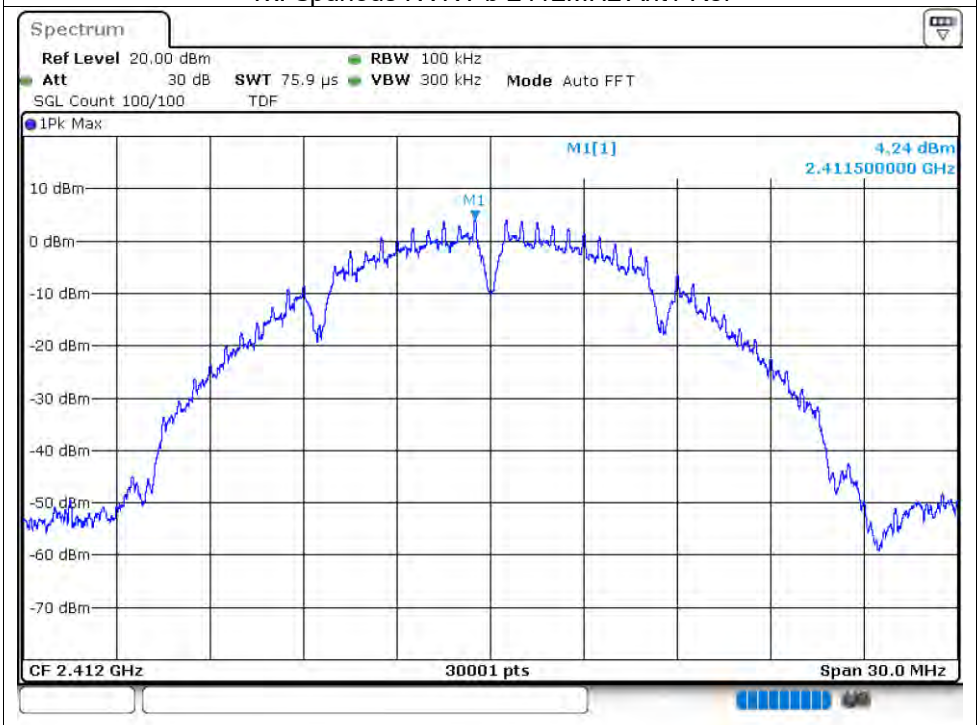


8.6 CONDUCTED RF SPURIOUS EMISSION

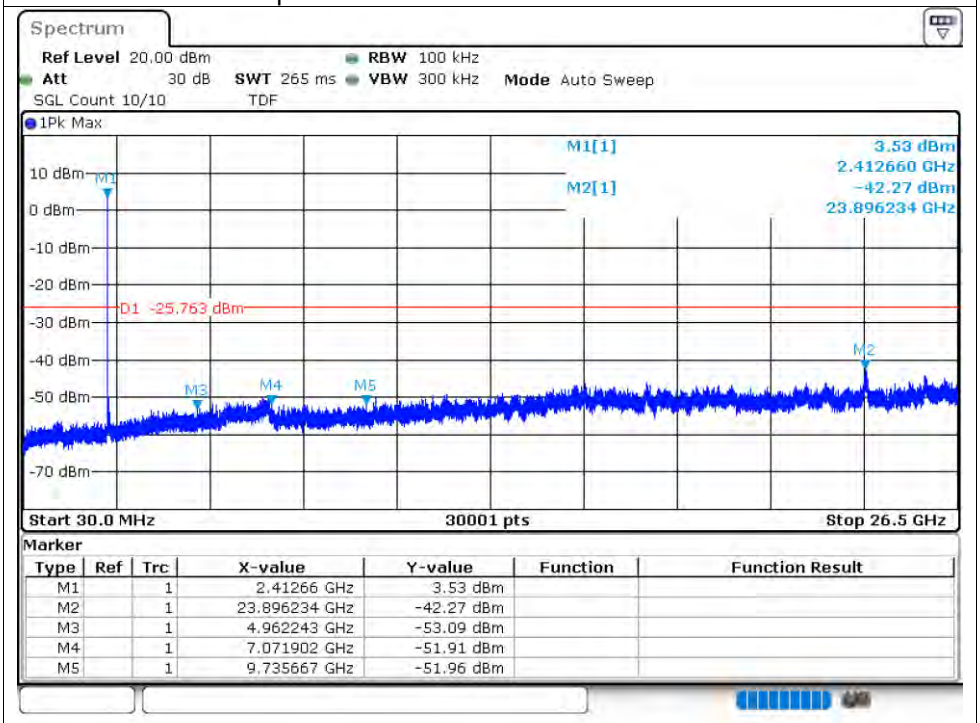
Condition	Mode	Frequency (MHz)	Antenna	Max Value (dBc)	Limit (dBc)	Verdict
NVNT	b	2412	Ant1	-46.5	-30	Pass
NVNT	b	2437	Ant1	-47.86	-30	Pass
NVNT	b	2462	Ant1	-46.11	-30	Pass
NVNT	g	2412	Ant1	-41.14	-30	Pass
NVNT	g	2437	Ant1	-44.46	-30	Pass
NVNT	g	2462	Ant1	-43.64	-30	Pass
NVNT	n20	2412	Ant1	-44.72	-30	Pass
NVNT	n20	2437	Ant1	-44.81	-30	Pass
NVNT	n20	2462	Ant1	-45.38	-30	Pass
NVNT	n40	2422	Ant1	-41.39	-30	Pass
NVNT	n40	2437	Ant1	-42.46	-30	Pass
NVNT	n40	2452	Ant1	-40.02	-30	Pass

Test Graphs

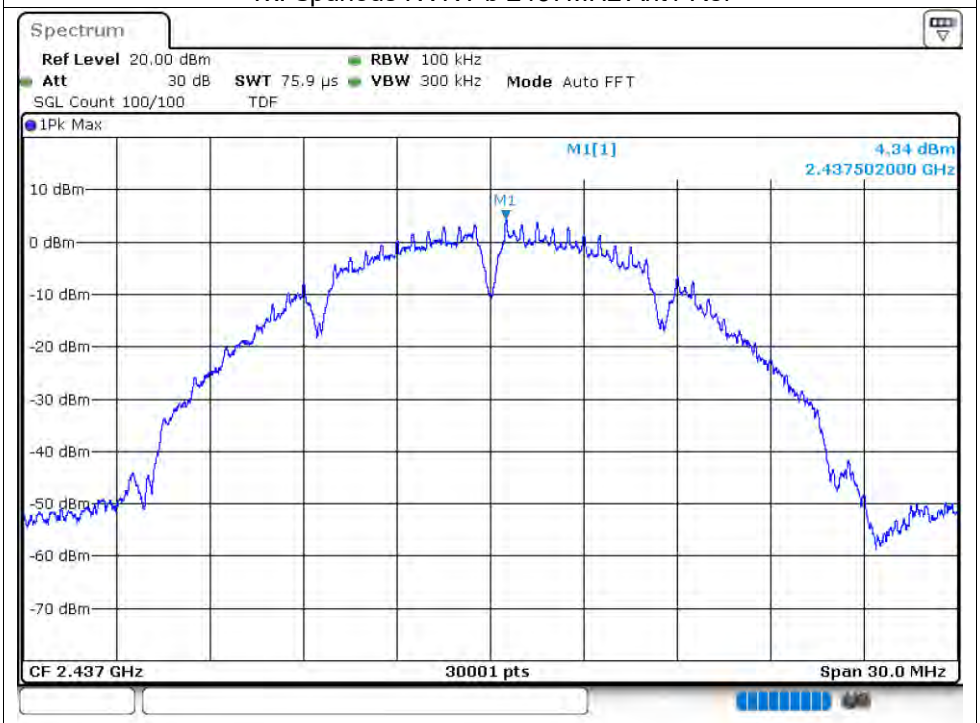
Tx. Spurious NVNT b 2412MHz Ant1 Ref



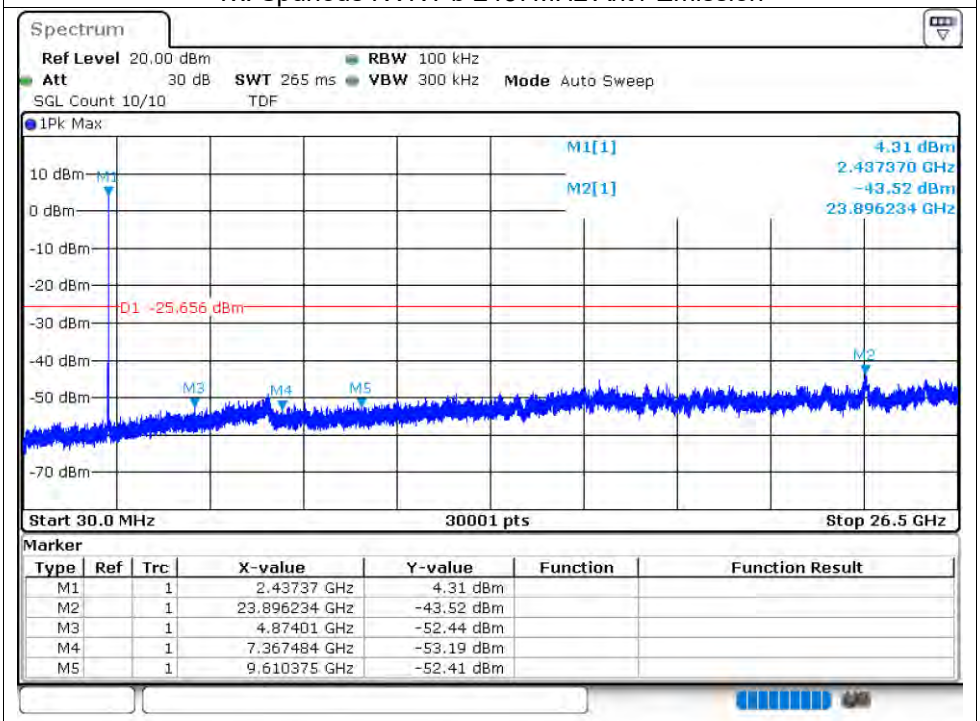
Tx. Spurious NVNT b 2412MHz Ant1 Emission



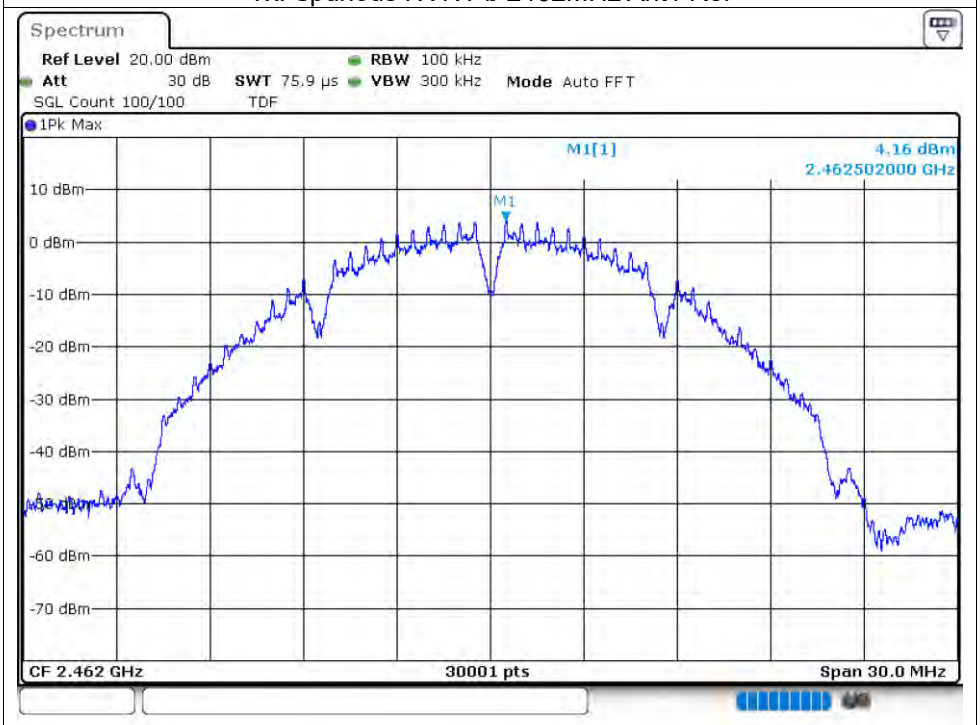
Tx. Spurious NVNT b 2437MHz Ant1 Ref



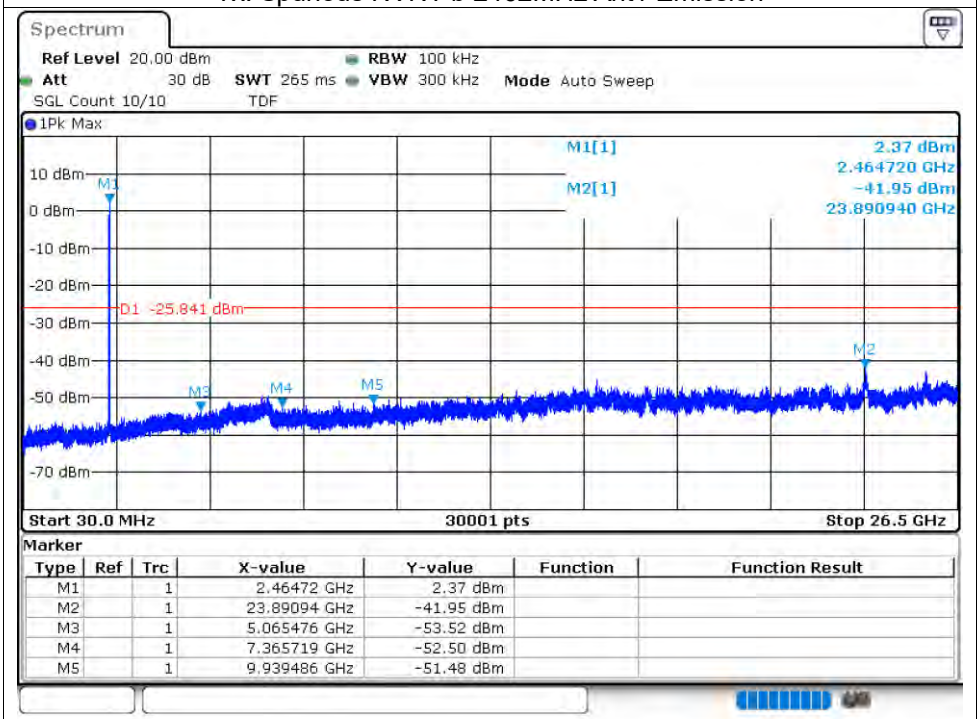
Tx. Spurious NVNT b 2437MHz Ant1 Emission



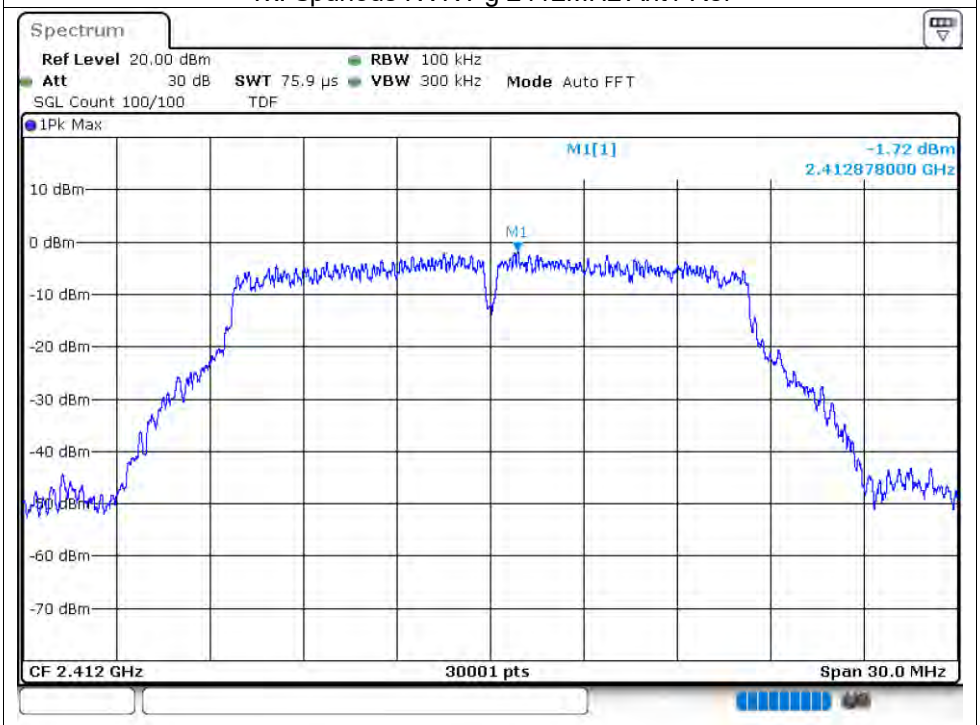
Tx. Spurious NVNT b 2462MHz Ant1 Ref



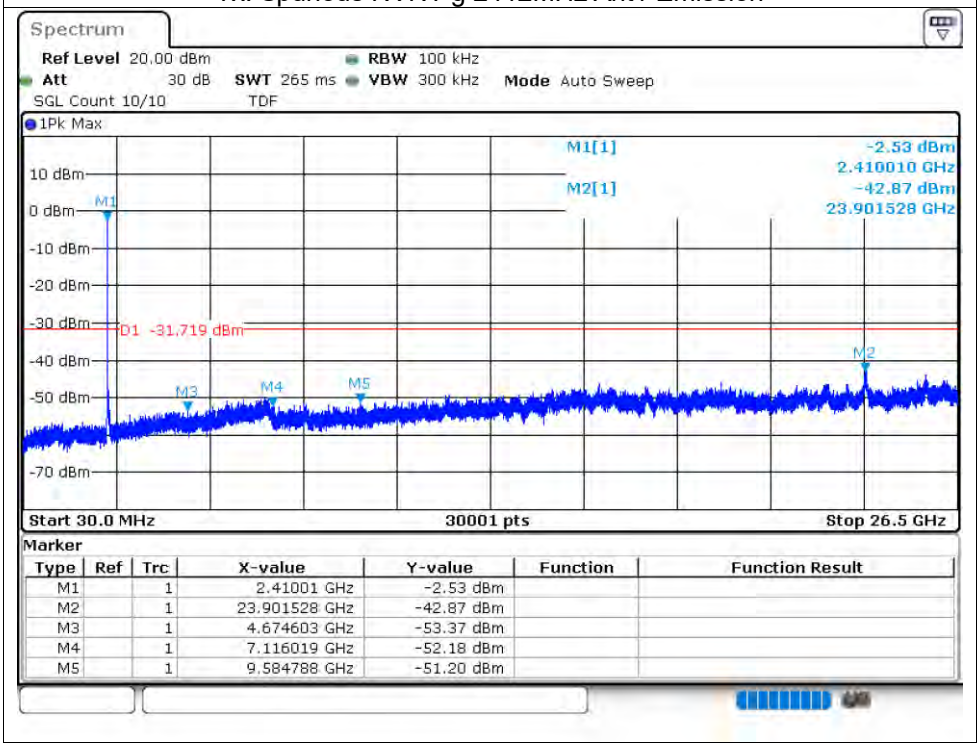
Tx. Spurious NVNT b 2462MHz Ant1 Emission



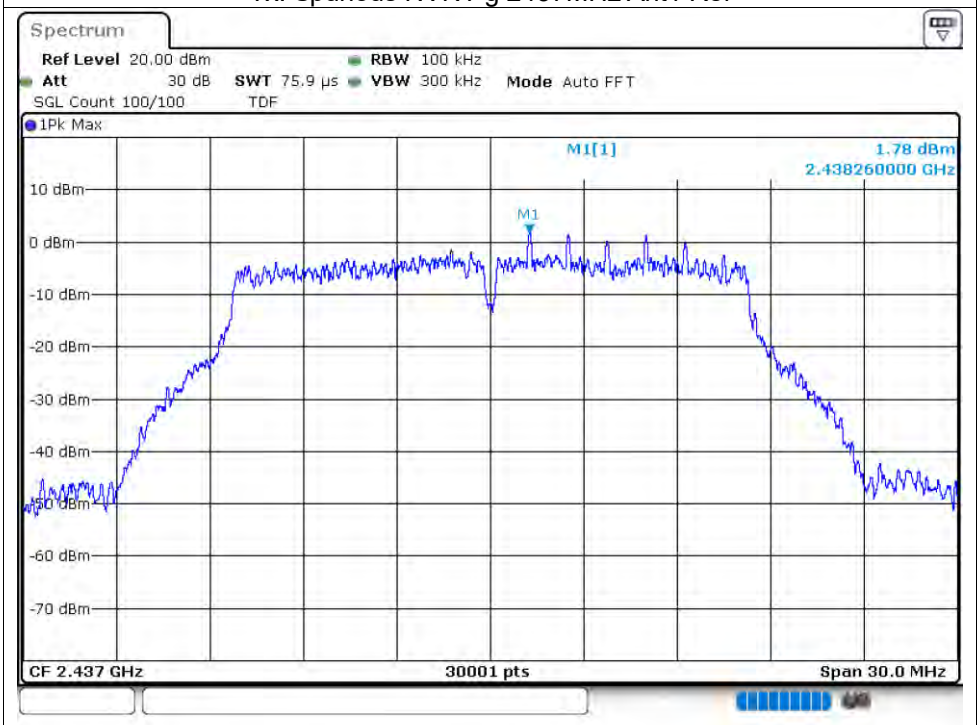
Tx. Spurious NVNT g 2412MHz Ant1 Ref



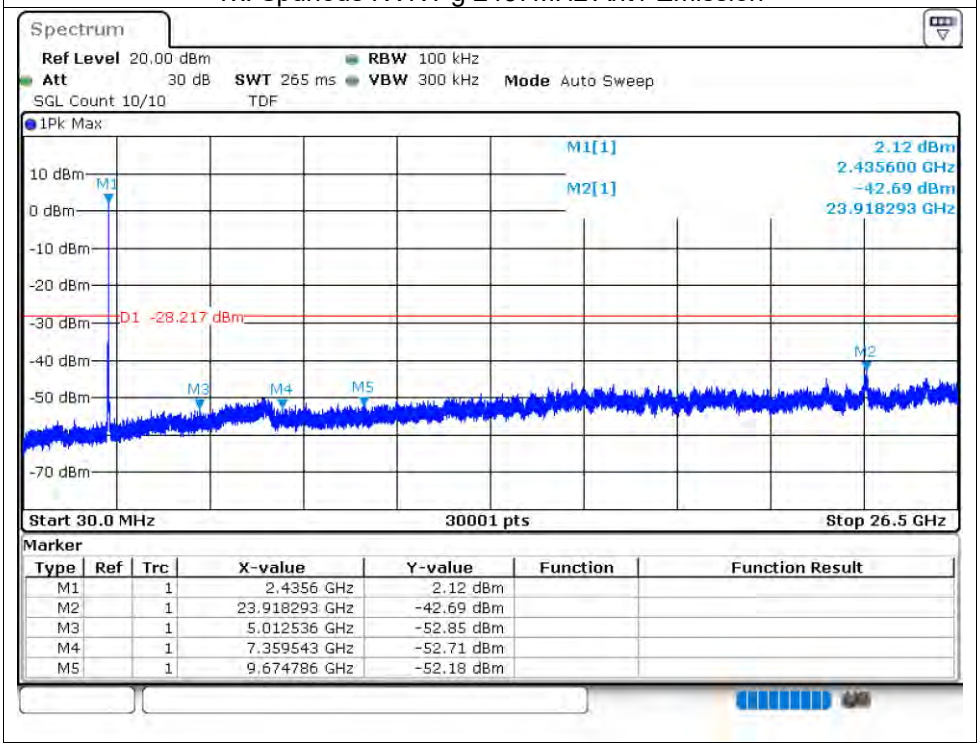
Tx. Spurious NVNT g 2412MHz Ant1 Emission



Tx. Spurious NVNT g 2437MHz Ant1 Ref



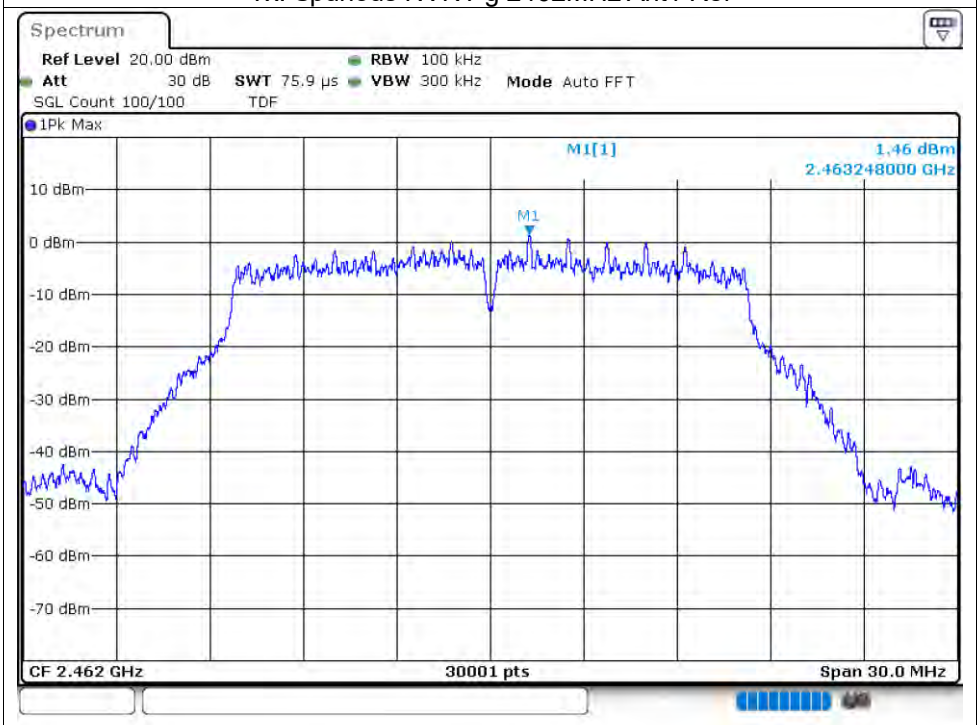
Tx. Spurious NVNT g 2437MHz Ant1 Emission



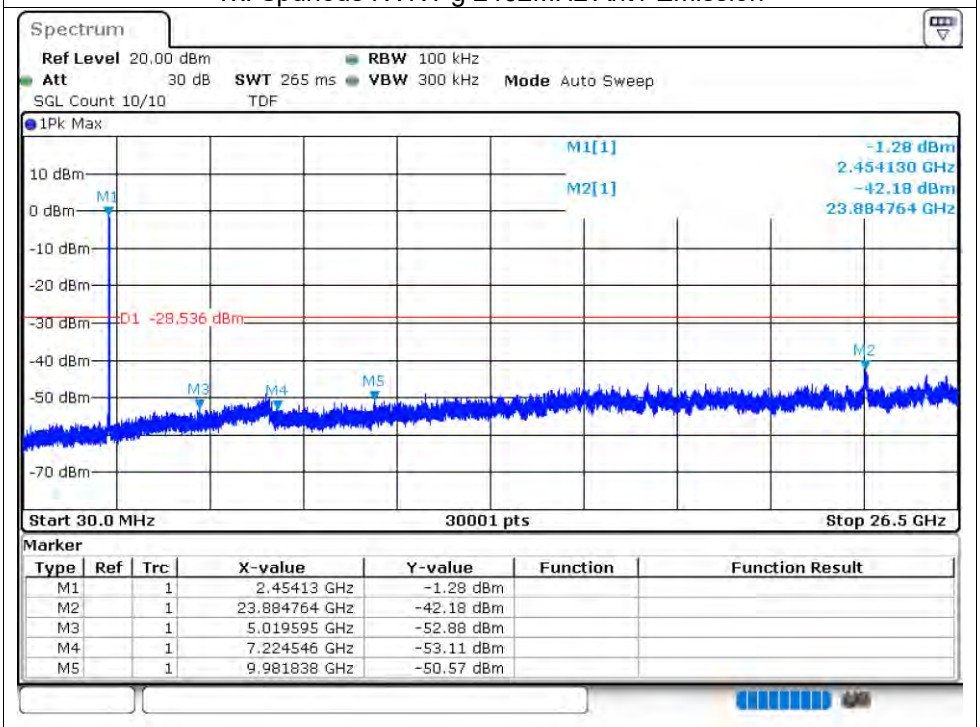
Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.4356 GHz	2.12 dBm		
M2		1	23.918293 GHz	-42.69 dBm		
M3		1	5.012536 GHz	-52.85 dBm		
M4		1	7.359543 GHz	-52.71 dBm		
M5		1	9.674786 GHz	-52.18 dBm		

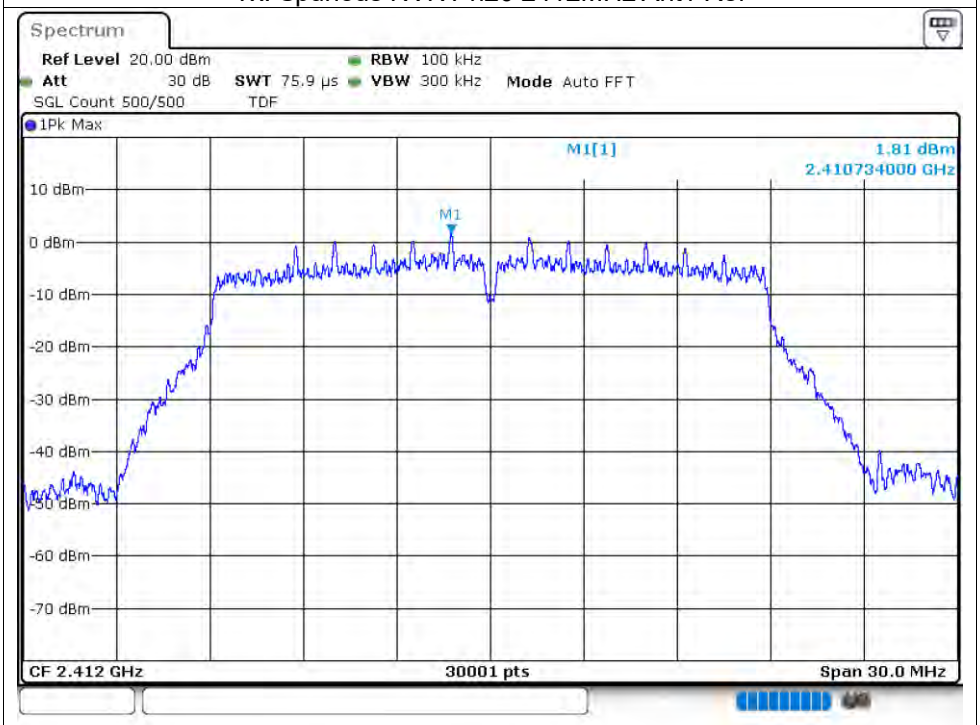
Tx. Spurious NVNT g 2462MHz Ant1 Ref



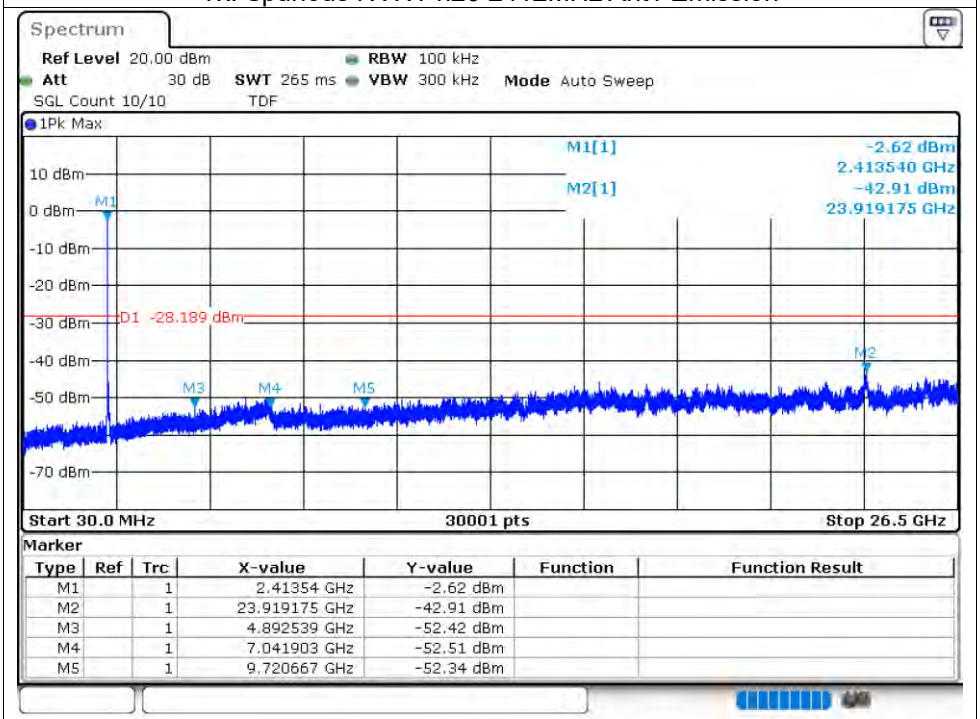
Tx. Spurious NVNT g 2462MHz Ant1 Emission



Tx. Spurious NVNT n20 2412MHz Ant1 Ref



Tx. Spurious NVNT n20 2412MHz Ant1 Emission



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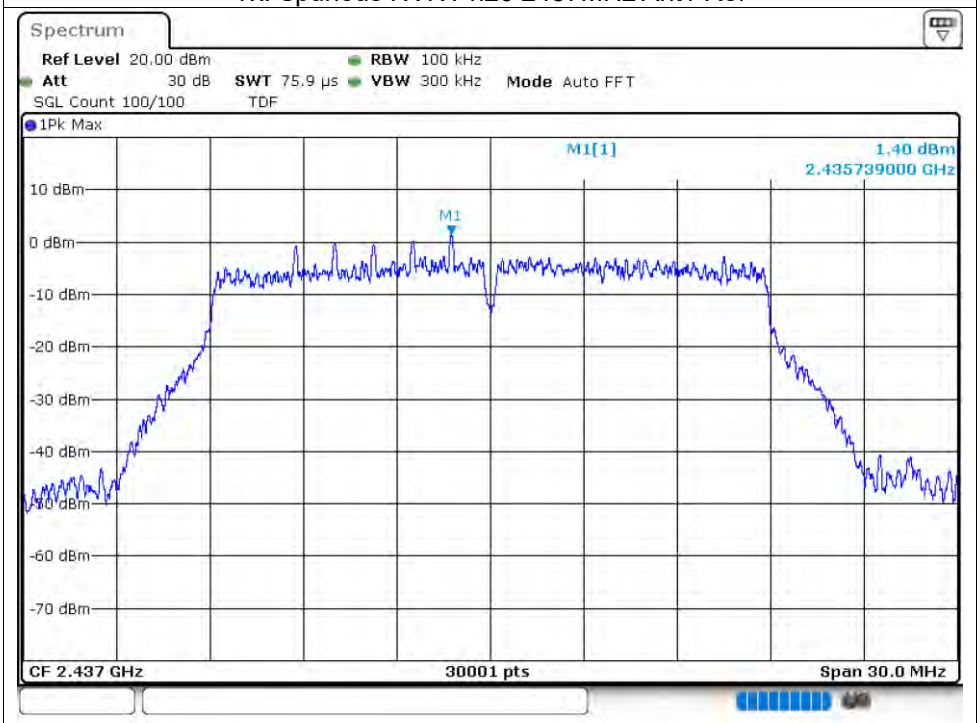
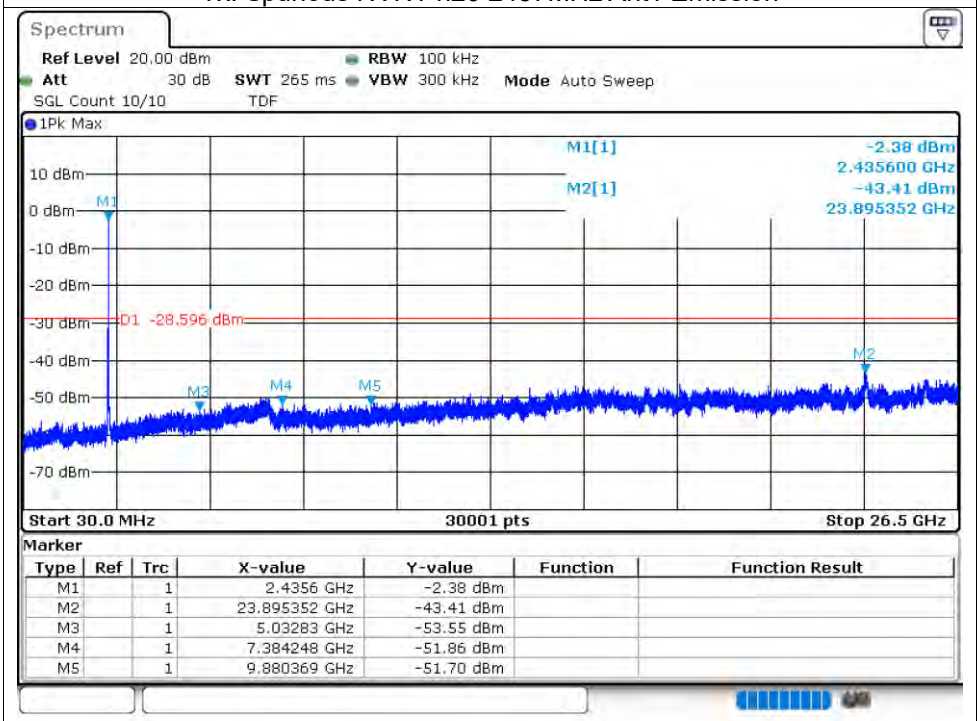


Tx. Spurious NVNT n20 2437MHz Ant1 Emission



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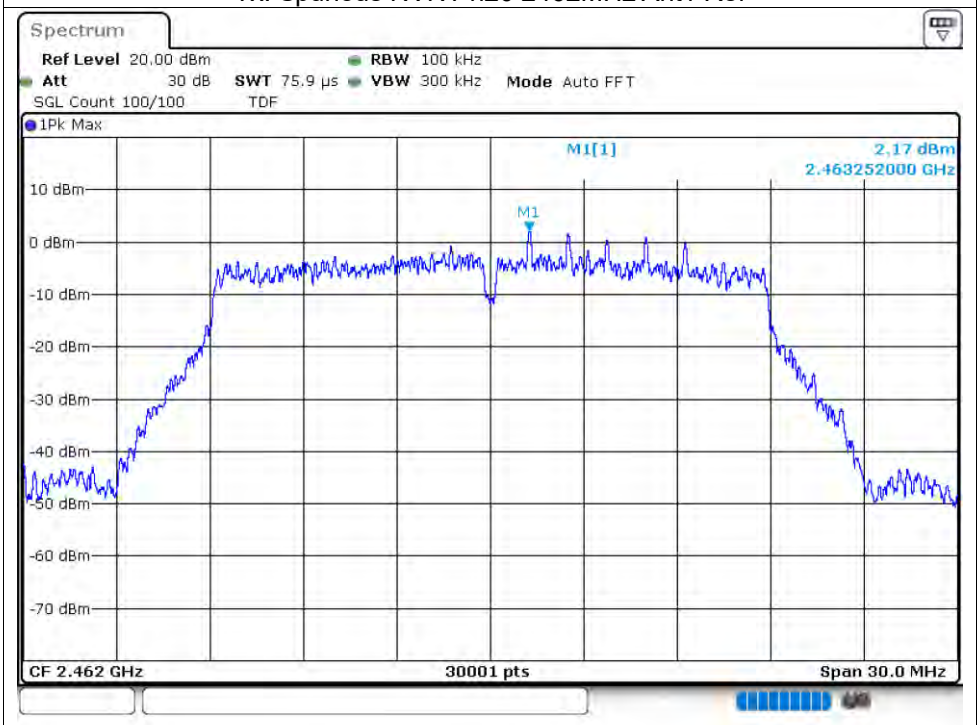
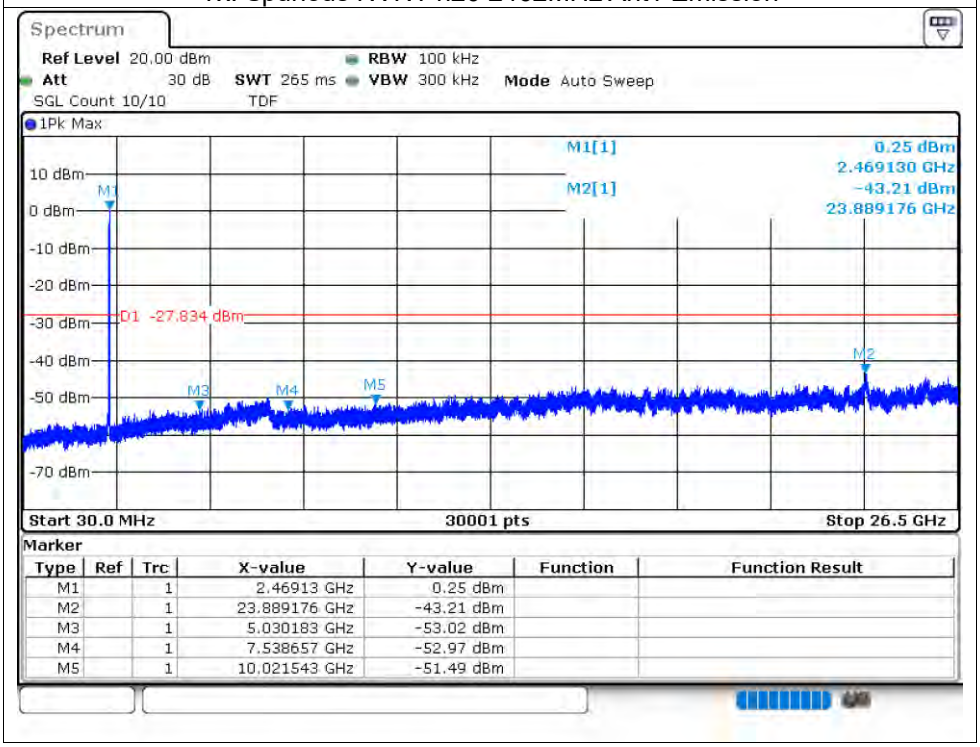
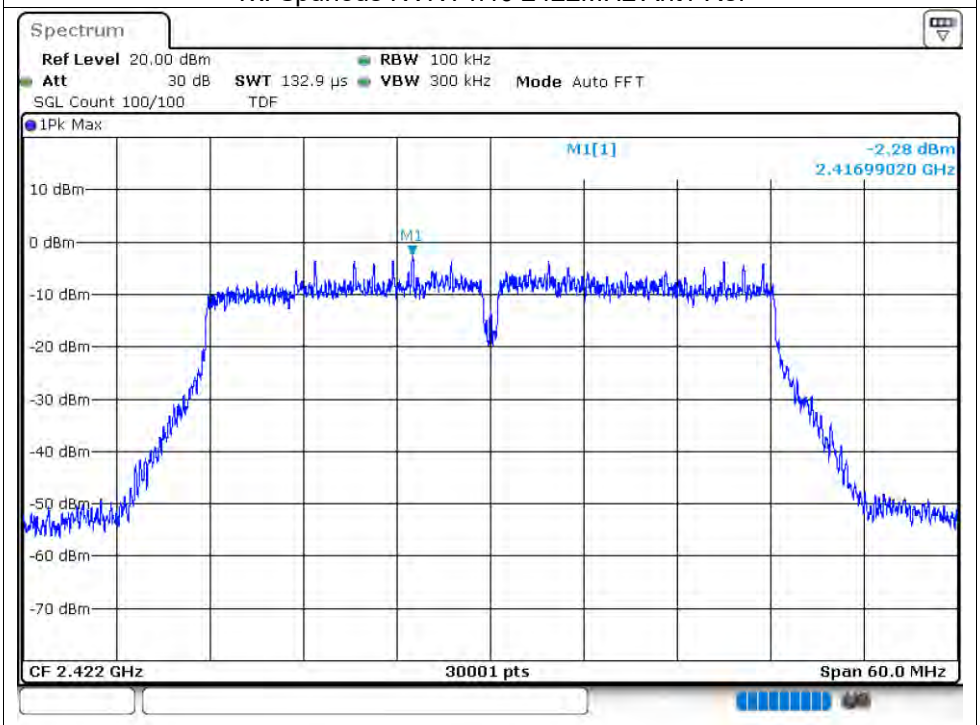


Tx. Spurious NVNT n20 2462MHz Ant1 Emission

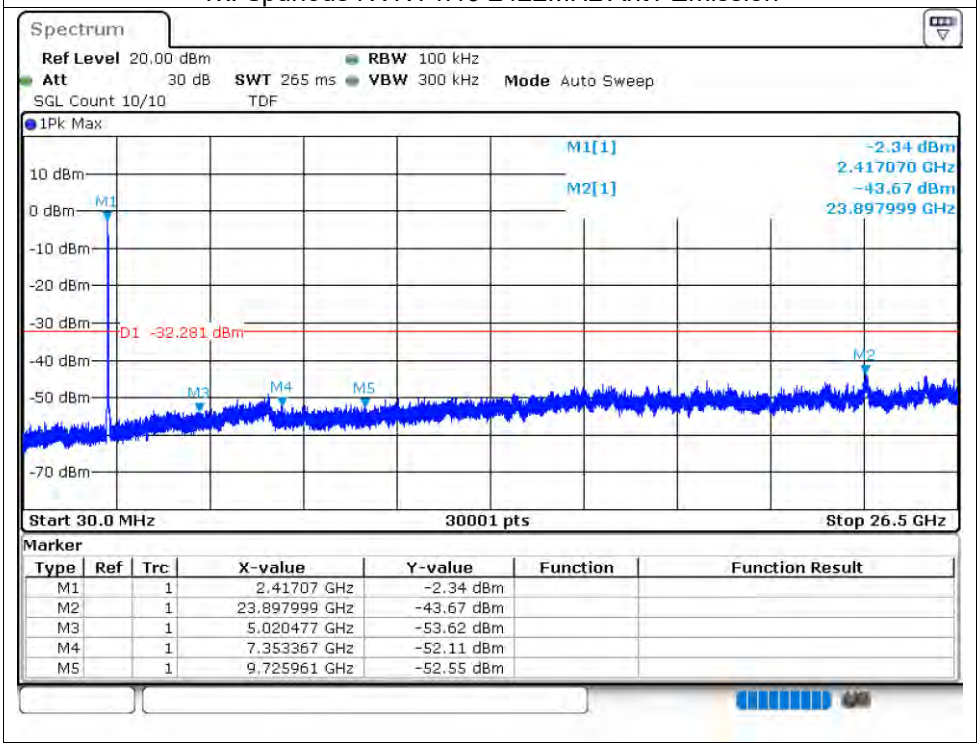


Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.46913 GHz	0.25 dBm		
M2		1	23.889176 GHz	-43.21 dBm		
M3		1	5.030183 GHz	-53.02 dBm		
M4		1	7.538657 GHz	-52.97 dBm		
M5		1	10.021543 GHz	-51.49 dBm		

Tx. Spurious NVNT n40 2422MHz Ant1 Ref



Tx. Spurious NVNT n40 2422MHz Ant1 Emission



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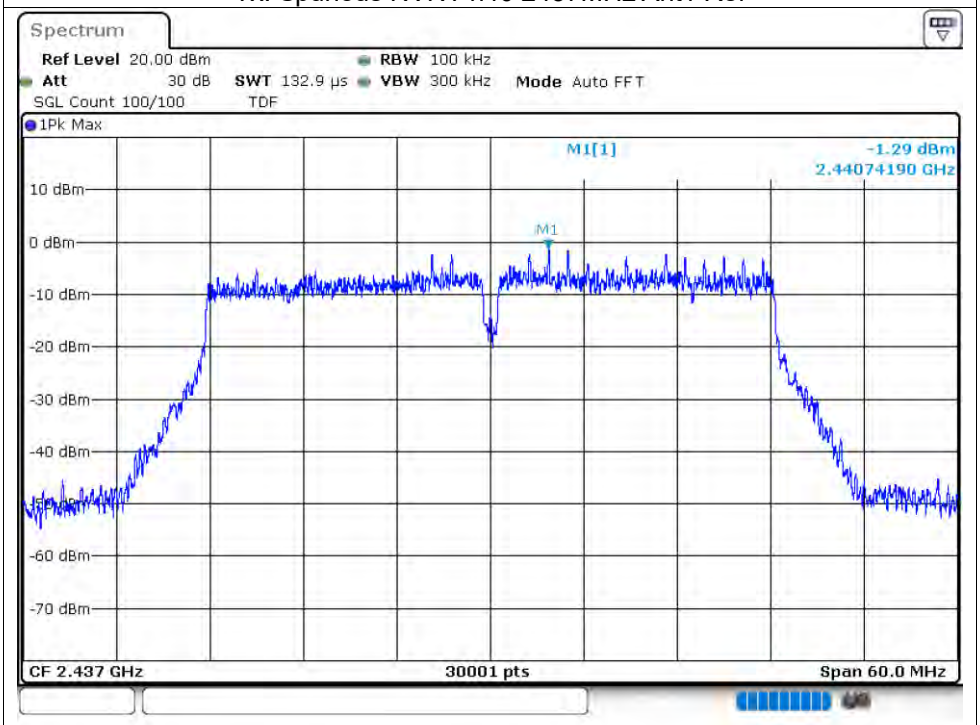
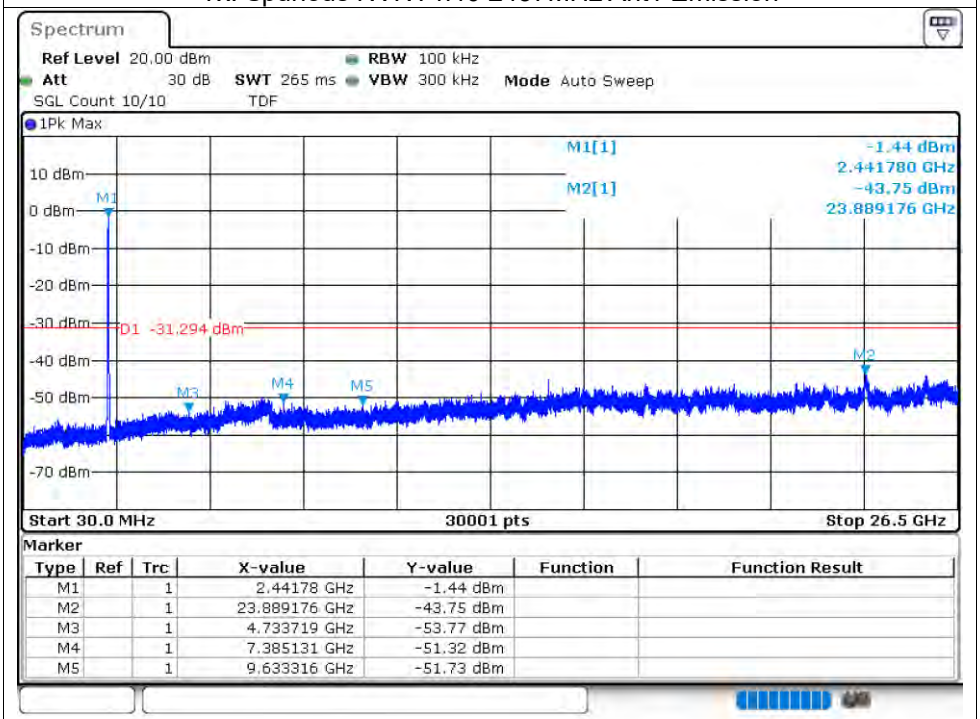


Tx. Spurious NVNT n40 2437MHz Ant1 Emission



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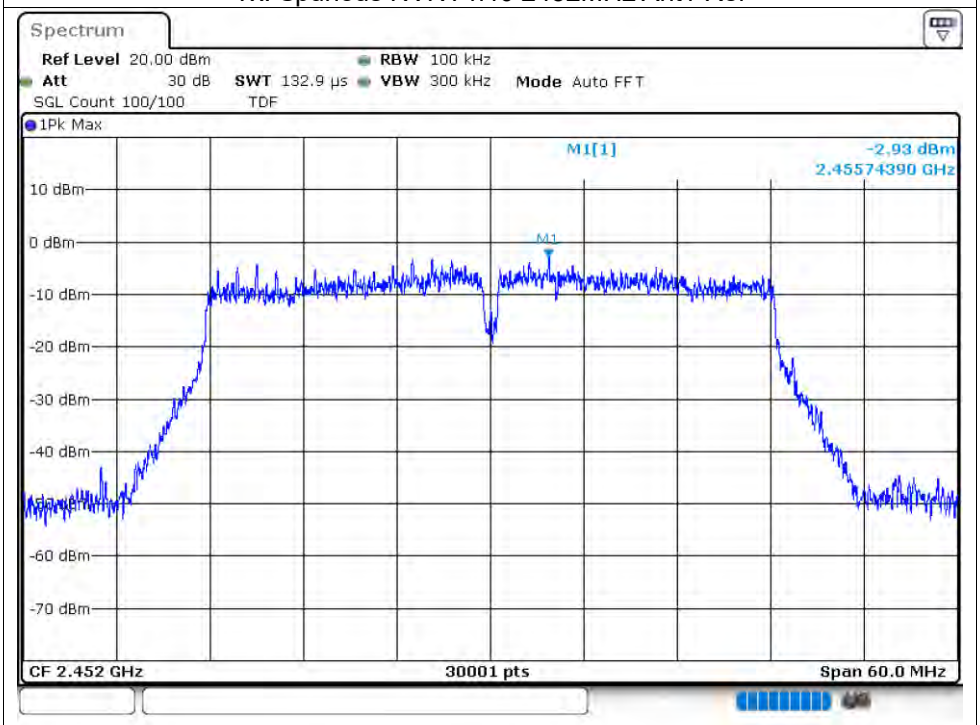
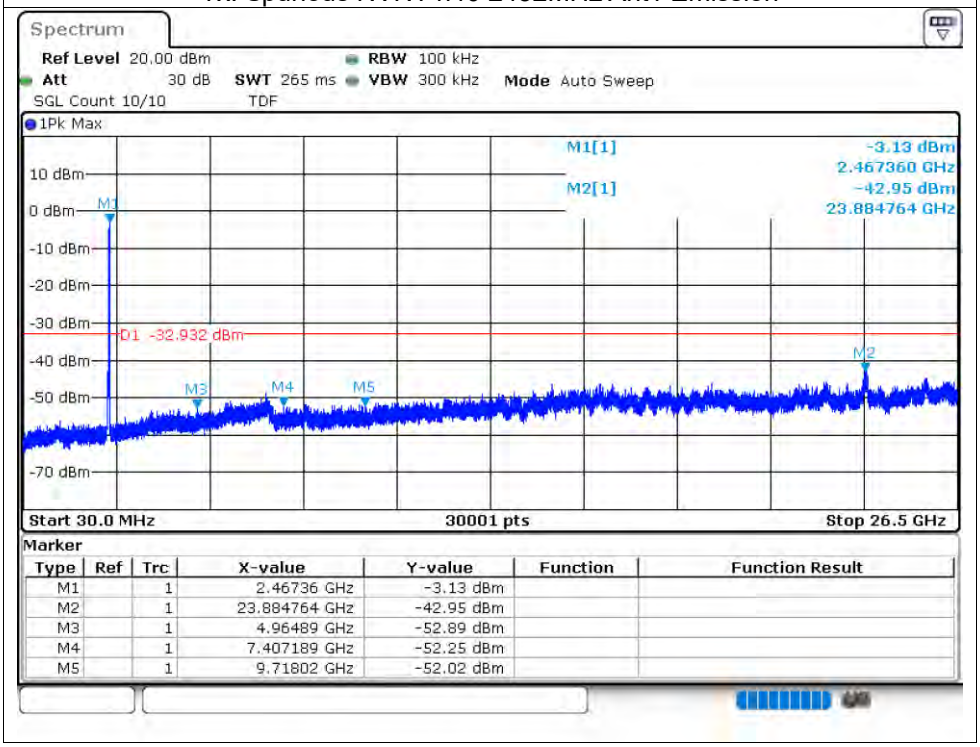


Tx. Spurious NVNT n40 2452MHz Ant1 Emission



END OF REPORT