FCC TEST REPORT

FCC ID: 2ARXG-SS-1

On Behalf of

Shanghai Anviz Technology Co., Ltd.

SecuStation

Model No.: SS-1

Prepared for	:	Shanghai Anviz Technology Co., Ltd.
Address	:	3rd Floor, 3669 Jindu Road, Shanghai, China

Prepared By	:	Shenzhen Alpha Product Testing Co., Ltd.
Address	:	Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

Report Number	:	A2207320-C01-R02
Date of Receipt	:	September 1, 2022
Date of Test	:	September 1, 2022- October 18, 2022
Date of Report	:	October 18, 2022
Version Number	:	V0

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TEST REPORT DECLARATION

Applicant	:	Shanghai Anviz Technology Co., Ltd.
Address	:	3rd Floor, 3669 Jindu Road, Shanghai, China
Manufacturer	:	Shanghai Anviz Technology Co., Ltd.
Address	:	3rd Floor, 3669 Jindu Road, Shanghai, China
EUT Description	:	SecuStation
	(A) Model No.	: SS-1
	(B) Trademark	: ANVIZ

Measurement Standard Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10-2013

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C limits both conducted and radiated emissions. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:	Lucas Pang Project Engineer	Lucas Pang
Approved by (name + signature).....:	Jack Xu Project Manager	Jack Xu
Date of issue.....:	October 18, 2022	

Revision History

Revision	Issue Date	Revisions	Revised By
V0	October 18, 2022	Initial released Issue	Lucas Pang

1. SUMMARY OF STANDARDS AND RESULTS

1.1. Description of Standards and Results

The EUT have been tested according to the applicable standards as referenced below:

Test Item	Standards Paragraph	Result
Conducted Emission	FCC Part 15: 15.207 ANSI C63.10	P
6dB Bandwidth	FCC PART 15:15.247(a)(2) ANSI C63.10	P
Output Power	FCC Part 15: 15.247(b)(3) ANSI C63.10	P
Radiated Spurious Emission	FCC Part 15: 15.209 FCC Part 15: 15.247(d) ANSI C63.10	P
Conducted Spurious & Band Edge Emission	FCC Part 15: 15.247(d) ANSI C63.10	P
Power Spectral Density	FCC PART 15:15.247(e) ANSI C63.10	P
Radiated Band Edge Emission	FCC Part 15: 15.247(d) ANSI C63.10	P
Antenna Requirement	FCC Part 15: 15.203	P

Note: 1. P is an abbreviation for Pass.

2. F is an abbreviation for Fail.

3. N/A is an abbreviation for Not Applicable.

4. The conclusion of this test report is judged by actual test data without considering measurement uncertainty.

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT Name	:	SecuStation
Trademark	:	ANVIZ
Model No.	:	SS-1
DIFF.	:	N/A
Power supply	:	DC 12V from adapter
2.4G WIFI	:	
Operation frequency	:	2412MHz-2462MHz for IEEE 802.11 b, g. n/HT20 2422MHz~2452MHz for IEEE802.11n/HT40
Channel No.	:	802.11b/802.11g /802.11n(HT20): 11CH 802.11(HT40): 7CH
Modulation type	:	IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK) IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n:OFDM(64QAM, 16QAM, QPSK, BPSK)
Antenna Type	:	External antenna 1, max gain 5.44dBi, External antenna 2, max gain 5.44dBi. The antenna MIMO combining gain is 8.44dBi. (Antenna information is provided by applicant.)
Software version	:	V1.0
Hardware version	:	V1.0
Intend use environment	:	Residential, commercial and light industrial environment
Note	:	/

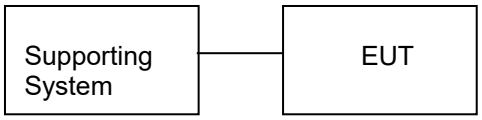
2.2. Accessories of Device (EUT)

Accessories	:	Adapter
Manufacturer	:	Shenzhen ABP Technology Co., Ltd
Model	:	AD0181-1201000F
Ratings	:	Input: 100-240V~ 50/60Hz 0.5A Max Output: 12.0V⎓1.0A 12.0W

2.3. Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or SDOC
1	Notebook PC	Lenovo	T430	/	/

2.4. Block Diagram of connection between EUT and simulators



2.5. Test Mode Description

Duty cycle :100% Keeping TX			
Mode	**data rate (Mbps)(see Note)**	**Channel**	**Frequency (MHz)**
IEEE 802.11b	1	Low :CH1	2412
	1	Middle: CH6	2437
	1	High: CH11	2462
IEEE 802.11g	6	Low :CH1	2412
	6	Middle: CH6	2437
	6	High: CH11	2462
IEEE 802.11 n/HT20	6.5	Low :CH1	2412
	6.5	Middle: CH6	2437
	6.5	High: CH11	2462
IEEE 802.11 n/HT40	13.5	Low :CH3	2422
	13.5	Middle: CH6	2437
	13.5	High: CH9	2452
Note: According exploratory test, EUT will have maximum output power in those data rate. So those data rate were used for all test.			

Channel list:					
For IEEE 802.11b, g, n/HT20					
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
CH1	2412	CH5	2432	CH9	2452
CH2	2417	CH6	2437	CH10	2457
CH3	2422	CH7	2442	CH11	2462
CH4	2427	CH8	2447		
For IEEE 802.11 n/HT40					
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
CH3	2422	CH7	2442		
CH4	2427	CH8	2447		
CH5	2432	CH9	2452		
CH6	2437				

2.6. Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7. Test Facility

Shenzhen Alpha Product Testing Co., Ltd

Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103,
Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961
Designation Number: CN1236

July 15, 2019 Certificated by IC
Registration Number: 12135A

2.8. Measurement Uncertainty

(95% confidence levels, k=2)

Item	**Uncertainty**
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.13dB(Polarize: H)
	4.16dB(Polarize: V)
Uncertainty for radio frequency	5.4×10-8
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2℃
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

2.9. Test Equipment List

Equipment	Manufacture	Model No.	Firmware version	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	/	N/A	2022.05.17	3Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	2.3	102137	2022.08.22	1Year
Spectrum analyzer	Agilent	N9020A	A.14.16	MY499100060	2022.08.22	1Year
Receiver	ROHDE&SCHWARZ	ESR	2.28 SP1	1316.3003K03-102082-Wa	2022.08.22	1Year
Receiver	R&S	ESCI	4.42 SP1	101165	2022.08.22	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	/	VULB 9168#627	2021.08.30	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	/	2106	2021.08.30	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	/	00059	2021.08.30	2Year
RF Cable	Resenberger	Cable 1	/	RE1	2022.08.22	1Year
RF Cable	Resenberger	Cable 2	/	RE2	2022.08.22	1Year
RF Cable	Resenberger	Cable 3	/	CE1	2022.08.22	1Year
Pre-amplifier	HP	HP8347A	/	2834A00455	2022.08.22	1Year
Pre-amplifier	Agilent	8449B	/	3008A02664	2022.08.22	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	/	8126-466	2022.08.22	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	/	101043	2022.08.23	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	/	00946	2021.08.30	2 Year
Preamplifier	SKET	LNPA_1840-50	/	SK2018101801	2022.08.22	1 Year
Power Meter	Agilent	E9300A	/	MY41496628	2022.08.22	1 Year
Power Sensor	DARE	RPR3006W	/	15100041SNO91	2022.08.22	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000-40-880	/	100631	2022.08.22	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	/	20140927-6	2022.08.22	1 Year
Adjustable attenuator	MWRFtest	N/A	/	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	/	N/A	N/A	N/A

Software Information			
Test Item	Software Name	Manufacturer	Version
RE	EZ-EMC	EZ	Alpha-3A1
CE	EZ-EMC	EZ	Alpha-3A1
RF-CE	MTS 8310	MW	V2.0.0.0

3. SPURIOUS EMISSION

3.1. Test Limits

All the emissions appearing within 15.205 restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

15.205 Restricted frequency band

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]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	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	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])

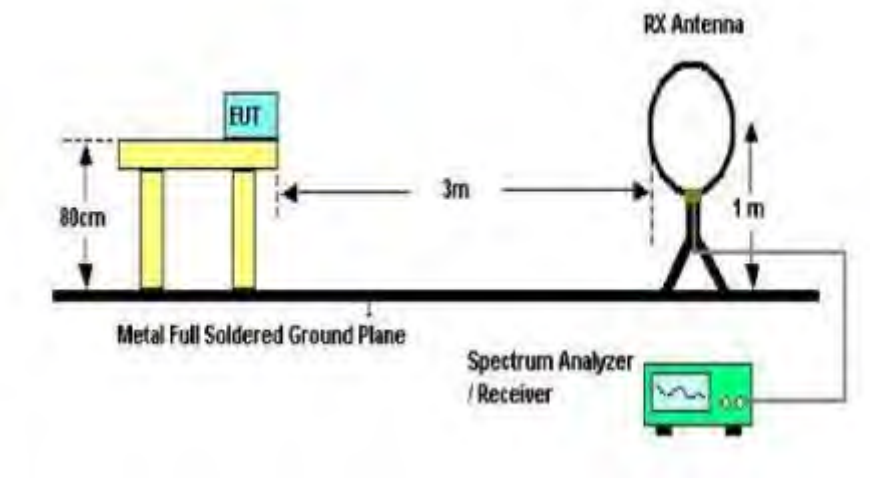
15.209 Limit

FREQUENCY MHz	DISTANCE Meters	FIELD STRENGTHS LIMIT	
		μV/m	dB(μV)/m
0.009-0.490	300	2400/F(KHz)	/
0.490-1.705	30	24000/F(KHz)	/
1.705-30	30	30	29.5
30 ~ 88	3	100	40.0
88 ~ 216	3	150	43.5
216 ~ 960	3	200	46.0
960 ~ 1000	3	500	54.0
Above 1000	3	74.0 dB(μV)/m (Peak) 54.0 dB(μV)/m (Average)	
Note 1: The peak limit is 20 dB higher than the average limit			
Note 2: Peak limit applies (AVG limit + 20 dB) as well as RSS-247 Section 5.5			

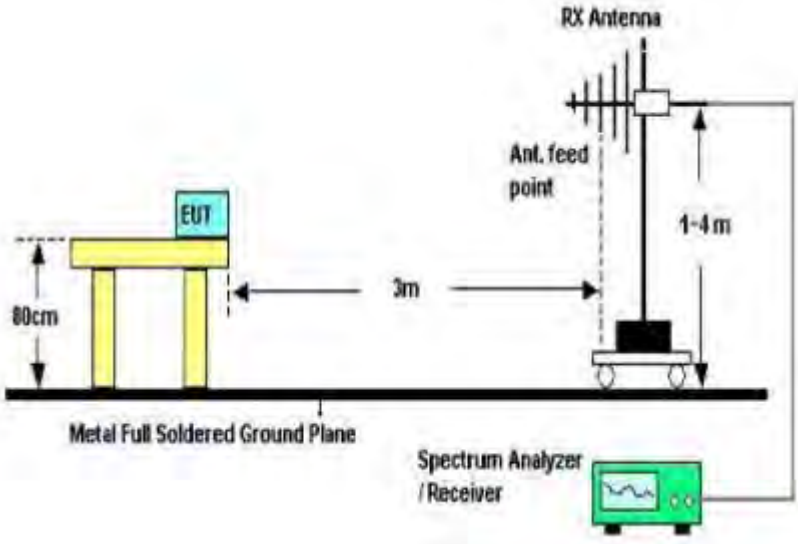
3.2. Test Procedure

The measuring distance of 3m shall be used for measurements at frequency up to 1GH and above 1GHz. The EUT was placed on a rotating 0.8 m high above ground for below 1GHz and 1.5m high for above1GHz testing, the table was rotated 360 degrees to determine the position of the highest radiation The Test antenna shall vary between 1m and 4m, both Horizontal and Vertical antenna are set of make measurement.
The initial step in collecting radiated 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 premeasured
If Peak value comply with QP limit below 1GHz, the EUT deemed to comply with QP limit. But the Peak value and average value both need to comply with applicable limit above 1GHz.
For the actual test configuration, please see the test setup photo.

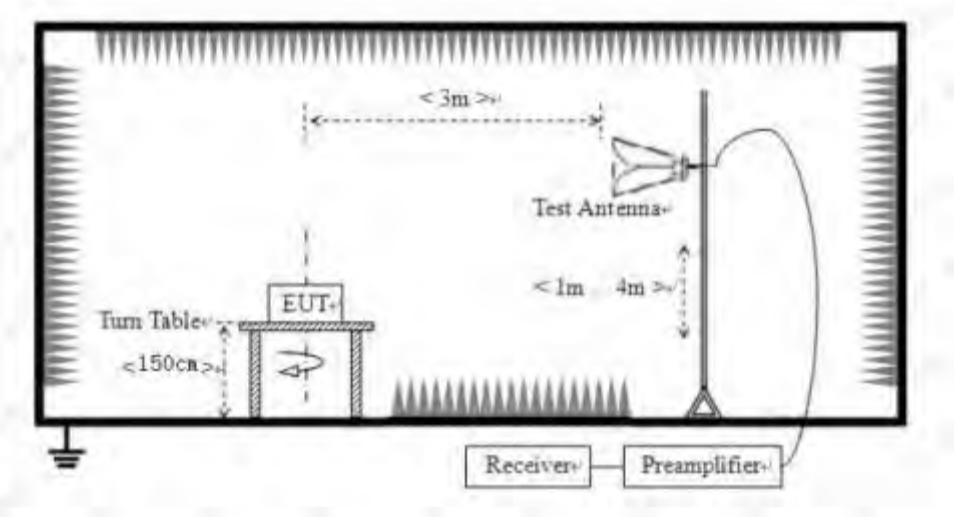
3.3. Test Setup



Below 30MHz Test Setup



Above 30MHz Test Setup



Above 1GHz Test Setup

3.4. Test Results

Test Condition
Continual Transmitting in maximum power.

9KHz~150KHz	RBW200Hz	VBW1KHz
150KHz~30MHz	RBW9KHz	VBW 30KHz
30MHZ~1GHz	RBW120KHz	VBW 300KHz
Above1GHz	RBW1MHz	VBW 3MHz

We have scanned the EUT from 9kHz up to the 10th harmonic of the fundamental.

Detailed information please see the following page.

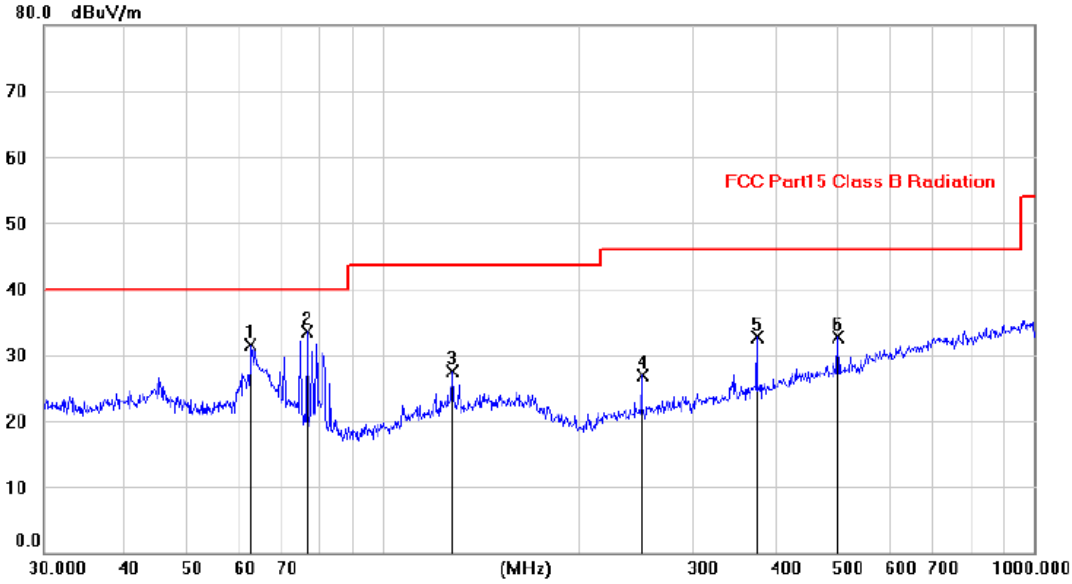
From 9KHz to 30MHz: Conclusion: PASS

Note: 1.The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

2.Only show the test data of the worst Channel in this report.

3. Except for mode b/g, other modes test the MIMO status.

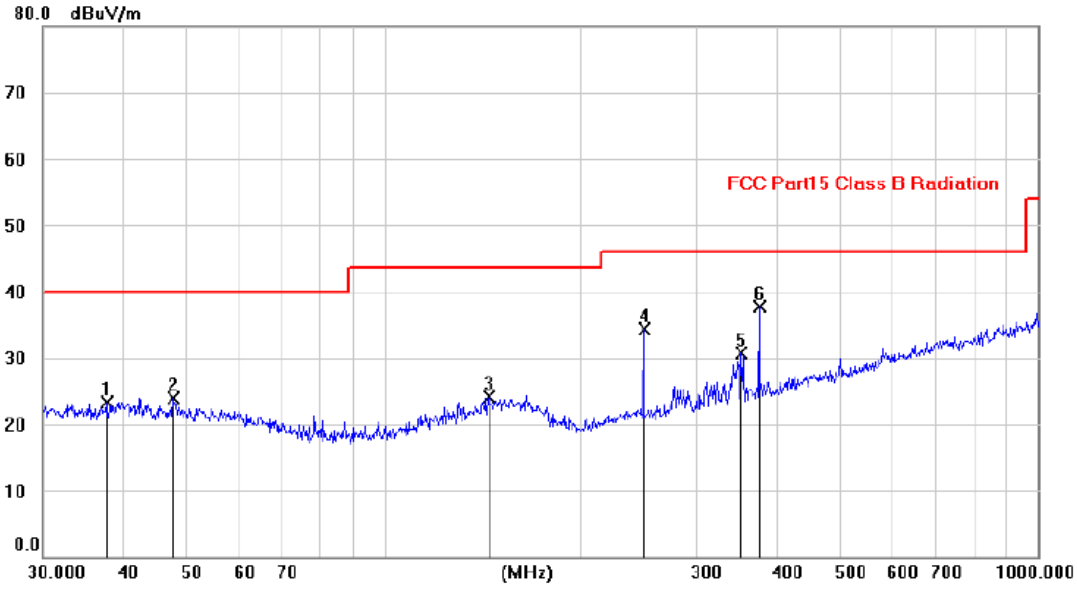
From 30MHz to 1000MHz: Conclusion: PASS
Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		62.6287	18.88	12.65	31.53	40.00	-8.47	peak			
2	*	76.3334	23.06	10.40	33.46	40.00	-6.54	peak			
3		127.6645	13.96	13.46	27.42	43.50	-16.08	peak			
4		250.0088	14.06	12.77	26.83	46.00	-19.17	peak			
5		375.0169	16.84	15.78	32.62	46.00	-13.38	peak			
6		500.0088	14.44	18.21	32.65	46.00	-13.35	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		Antenna Height	Table Degree	
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	cm	degree	Comment
1		37.6050	9.15	14.11	23.26	40.00	-16.74	peak			
2		47.6586	9.78	14.08	23.86	40.00	-16.14	peak			
3		144.3854	9.52	14.63	24.15	43.50	-19.35	peak			
4		250.0088	21.58	12.77	34.35	46.00	-11.65	peak			
5		352.9433	15.32	15.29	30.61	46.00	-15.39	peak			
6	*	375.0169	21.91	15.78	37.69	46.00	-8.31	peak			

Note:1. *:Maximum data; x:Over limit; !:over margin.
2.Measurement=Reading Level+Correct Factor; Correct Factor=Antenna Factor+Cable Loss.

From 1G-25GHz

Test Mode: IEEE 802.11b TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	46.69	V	33.95	10.18	34.26	56.56	74	-17.44	PK
4824	35.38	V	33.95	10.18	34.26	45.25	54	-8.75	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.68	H	33.95	10.18	34.26	57.55	74	-16.45	PK
4824	34.93	H	33.95	10.18	34.26	44.80	54	-9.20	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX Mid									
4874	49.26	V	33.95	10.20	34.26	59.15	74	-14.85	PK
4874	34.65	V	33.95	10.20	34.26	44.54	54	-9.46	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.85	H	33.95	10.20	34.26	58.74	74	-15.26	PK
4874	32.11	H	33.95	10.20	34.26	42.00	54	-12.00	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11b TX High									
4924	46.38	V	33.98	10.22	34.25	56.33	74	-17.67	PK
4924	33.72	V	33.98	10.22	34.25	43.67	54	-10.33	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.83	H	33.98	10.22	34.25	57.78	74	-16.22	PK
4924	32.70	H	33.98	10.22	34.25	42.65	54	-11.35	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Test Mode: IEEE 802.11g TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	46.84	V	33.95	10.18	34.26	56.71	74	-17.29	PK
4824	35.09	V	33.95	10.18	34.26	44.96	54	-9.04	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.23	H	33.95	10.18	34.26	57.10	74	-16.90	PK
4824	34.85	H	33.95	10.18	34.26	44.72	54	-9.28	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX Mid									
4874	49.89	V	33.95	10.20	34.26	59.78	74	-14.22	PK
4874	34.59	V	33.95	10.20	34.26	44.48	54	-9.52	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.40	H	33.95	10.20	34.26	58.29	74	-15.71	PK
4874	32.10	H	33.95	10.20	34.26	41.99	54	-12.01	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11g TX High									
4924	46.48	V	33.98	10.22	34.25	56.43	74	-17.57	PK
4924	33.33	V	33.98	10.22	34.25	43.28	54	-10.72	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.37	H	33.98	10.22	34.25	57.32	74	-16.68	PK
4924	32.03	H	33.98	10.22	34.25	41.98	54	-12.02	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Test Mode: IEEE 802.11n HT20 TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	46.89	V	33.95	10.18	34.26	56.76	74	-17.24	PK
4824	35.03	V	33.95	10.18	34.26	44.90	54	-9.10	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.49	H	33.95	10.18	34.26	57.36	74	-16.64	PK
4824	34.45	H	33.95	10.18	34.26	44.32	54	-9.68	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT20 TX Mid									
4874	49.40	V	33.95	10.20	34.26	59.29	74	-14.71	PK
4874	34.82	V	33.95	10.20	34.26	44.71	54	-9.29	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.76	H	33.95	10.20	34.26	58.65	74	-15.35	PK
4874	32.39	H	33.95	10.20	34.26	42.28	54	-11.72	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT20 TX High									
4924	46.77	V	33.98	10.22	34.25	56.72	74	-17.28	PK
4924	33.11	V	33.98	10.22	34.25	43.06	54	-10.94	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.06	H	33.98	10.22	34.25	57.01	74	-16.99	PK
4924	32.15	H	33.98	10.22	34.25	42.10	54	-11.90	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

Note:

1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Test Mode: IEEE 802.11n HT40 TX Low									
Freq (MHz)	Read Level (dBuV/m)	Polar (H/V)	Antenna Factor (dB/m)	Cable loss(dB)	Amp Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
4824	46.56	V	33.95	10.18	34.26	56.43	74	-17.57	PK
4824	35.06	V	33.95	10.18	34.26	44.93	54	-9.07	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
4824	47.72	H	33.95	10.18	34.26	57.59	74	-16.41	PK
4824	34.24	H	33.95	10.18	34.26	44.11	54	-9.89	AV
7236	/	/	/	/	/	/	/	/	/
9648	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT40 TX Mid									
4874	49.39	V	33.95	10.20	34.26	59.28	74	-14.72	PK
4874	34.19	V	33.95	10.20	34.26	44.08	54	-9.92	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
4874	48.95	H	33.95	10.20	34.26	58.84	74	-15.16	PK
4874	32.09	H	33.95	10.20	34.26	41.98	54	-12.02	AV
7311	/	/	/	/	/	/	/	/	/
9748	/	/	/	/	/	/	/	/	/
Test Mode: IEEE 802.11n HT40 TX High									
4924	46.74	V	33.98	10.22	34.25	56.69	74	-17.31	PK
4924	33.34	V	33.98	10.22	34.25	43.29	54	-10.71	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/
4924	47.62	H	33.98	10.22	34.25	57.57	74	-16.43	PK
4924	32.81	H	33.98	10.22	34.25	42.76	54	-11.24	AV
7386	/	/	/	/	/	/	/	/	/
9848	/	/	/	/	/	/	/	/	/

Note:

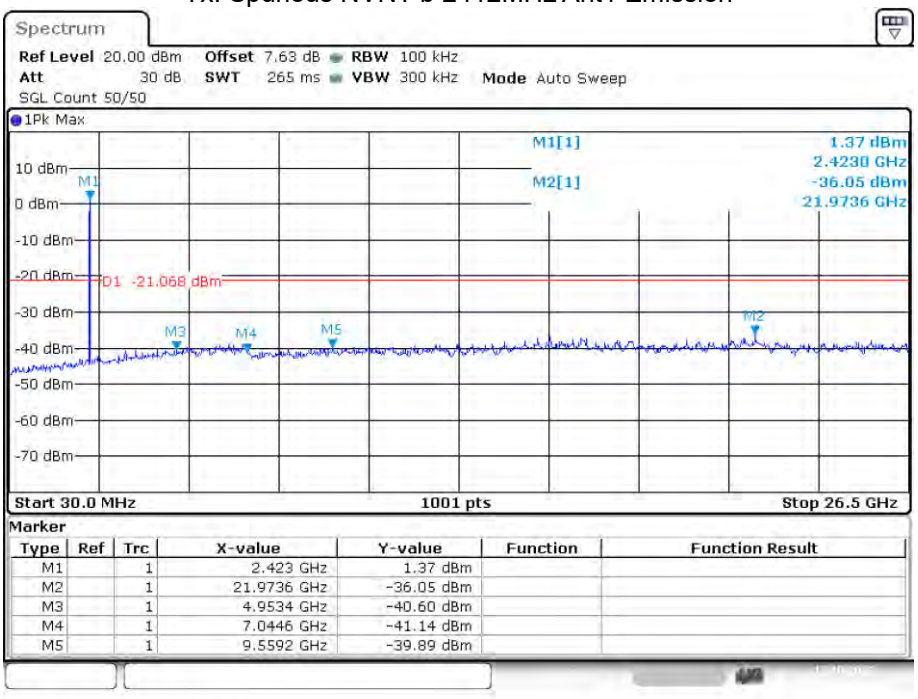
1, Result = Read level + Antenna factor + cable loss-Amp factor

2, All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Conducted RF Spurious Emission

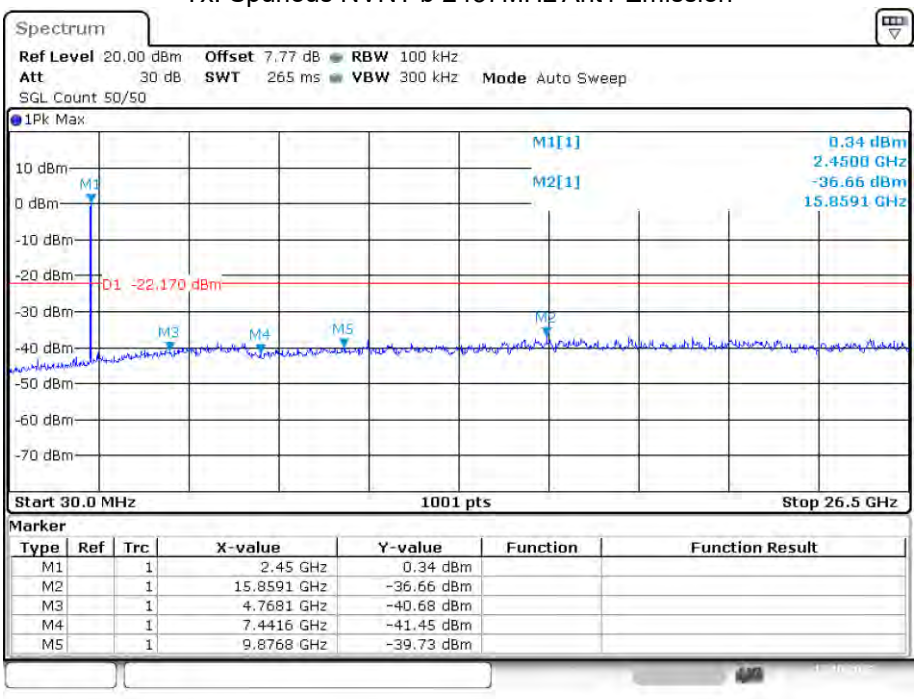
Note: All antennas have been tested, and only the data of the worst antenna is shown.

Tx. Spurious NVNT b 2412MHz Ant1 Emission



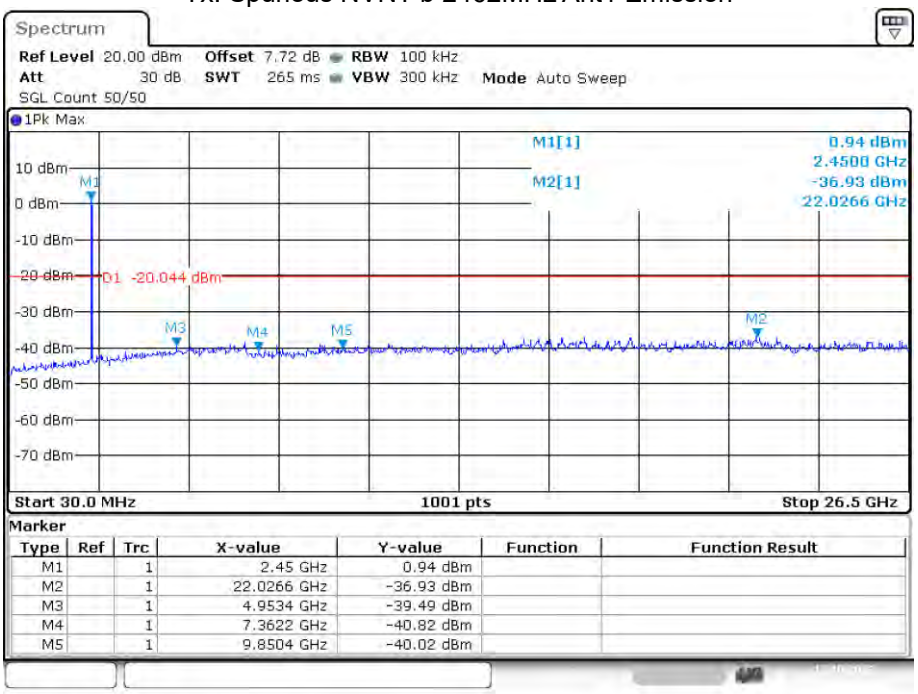
Date: 17.OCT.2022 14:27:14

Tx. Spurious NVNT b 2437MHz Ant1 Emission



Date: 17.OCT.2022 14:35:28

Tx. Spurious NVNT b 2462MHz Ant1 Emission

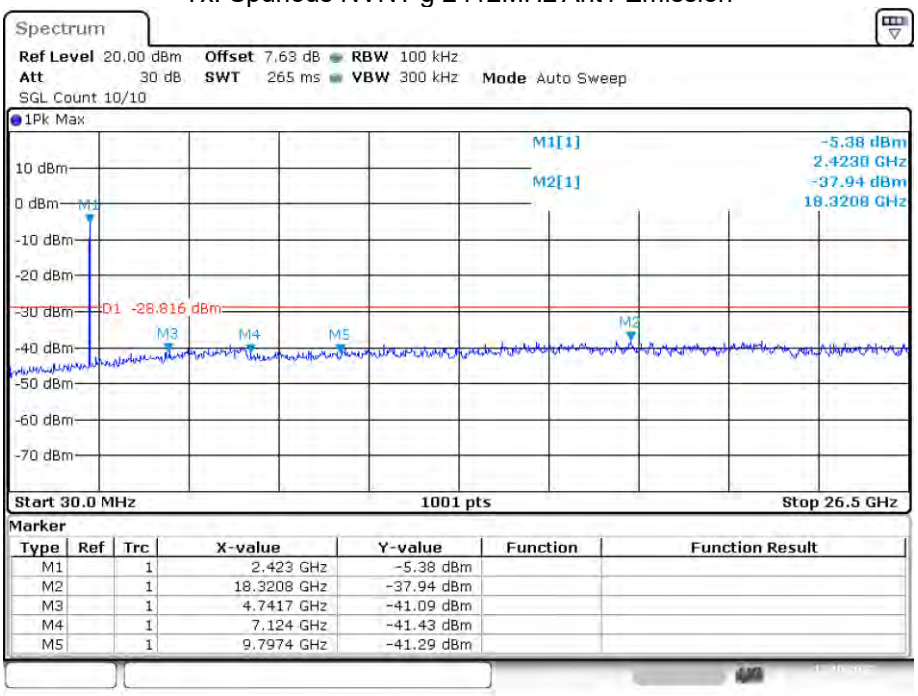


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	0.94 dBm		
M2		1	22.0266 GHz	-36.93 dBm		
M3		1	4.9534 GHz	-39.49 dBm		
M4		1	7.3622 GHz	-40.82 dBm		
M5		1	9.8504 GHz	-40.02 dBm		

Date: 17.OCT.2022 14:41:50

Tx. Spurious NVNT g 2412MHz Ant1 Emission

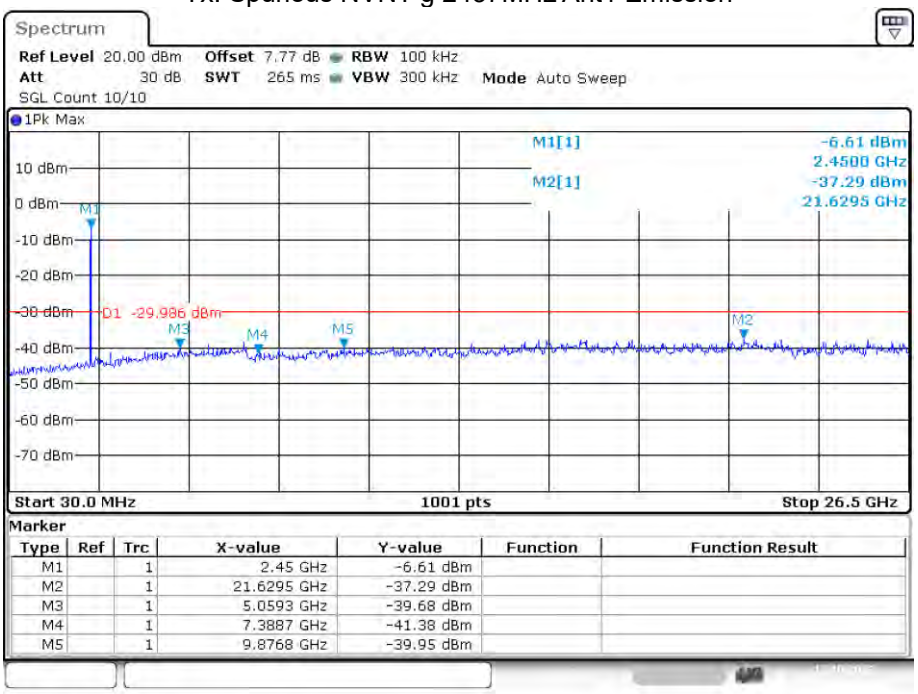


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-5.38 dBm		
M2		1	18.3208 GHz	-37.94 dBm		
M3		1	4.7417 GHz	-41.09 dBm		
M4		1	7.124 GHz	-41.43 dBm		
M5		1	9.7974 GHz	-41.29 dBm		

Date: 17.OCT.2022 14:45:58

Tx. Spurious NVNT g 2437MHz Ant1 Emission

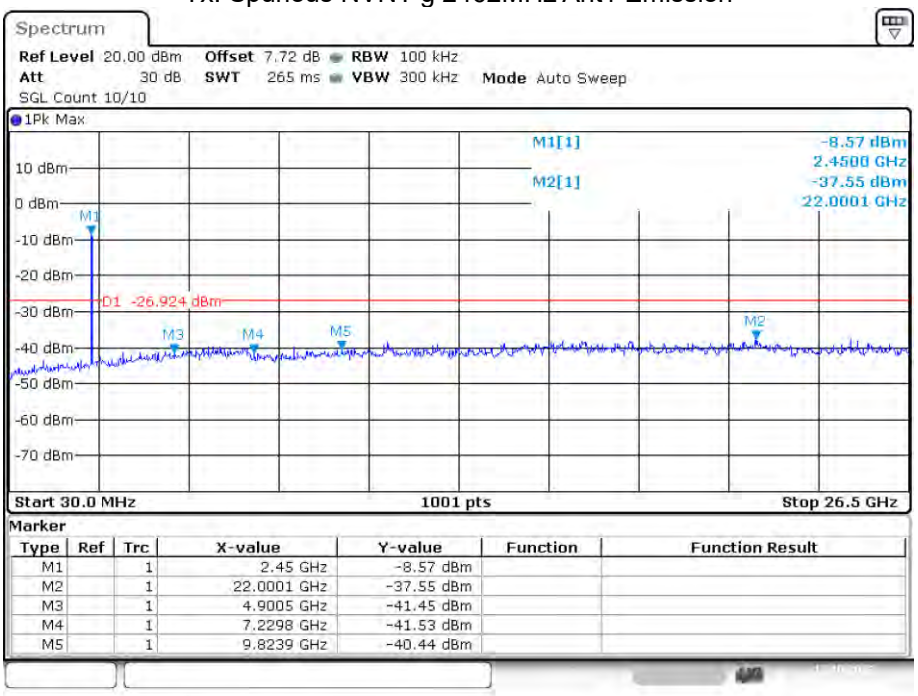


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-6.61 dBm		
M2		1	21.6295 GHz	-37.29 dBm		
M3		1	5.0593 GHz	-39.68 dBm		
M4		1	7.3887 GHz	-41.38 dBm		
M5		1	9.8768 GHz	-39.95 dBm		

Date: 17.OCT.2022 14:58:18

Tx. Spurious NVNT g 2462MHz Ant1 Emission

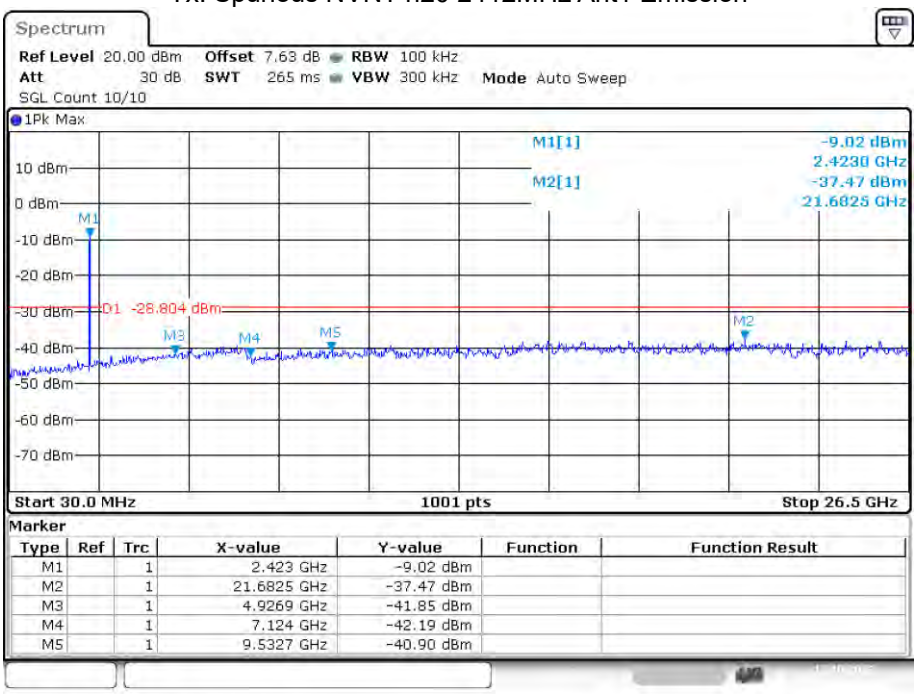


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-8.57 dBm		
M2		1	22.0001 GHz	-37.55 dBm		
M3		1	4.9005 GHz	-41.45 dBm		
M4		1	7.2298 GHz	-41.53 dBm		
M5		1	9.8239 GHz	-40.44 dBm		

Date: 17.OCT.2022 15:02:36

Tx. Spurious NVNT n20 2412MHz Ant1 Emission

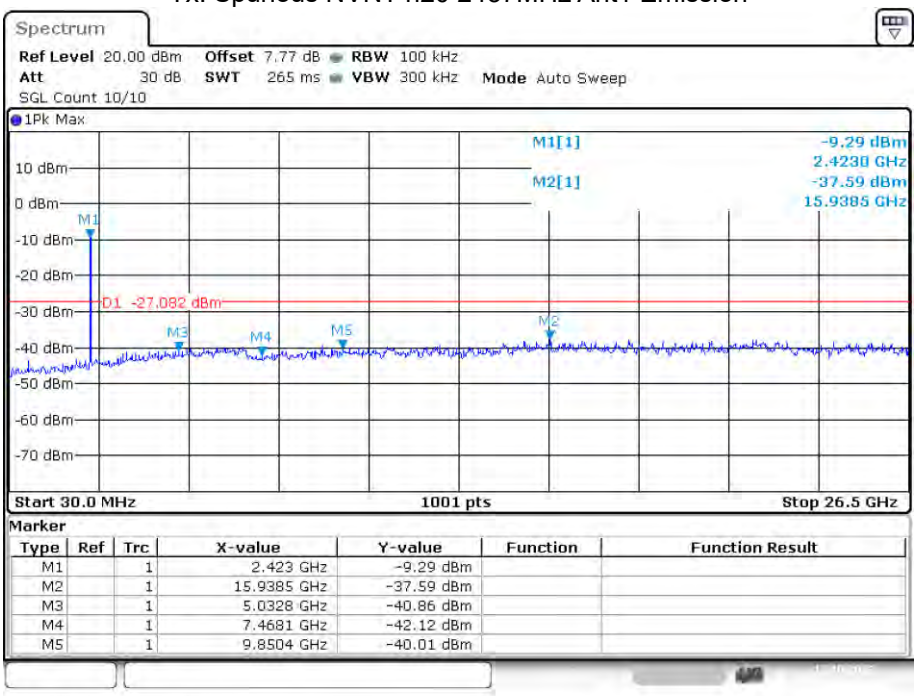


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-9.02 dBm		
M2		1	21.6825 GHz	-37.47 dBm		
M3		1	4.9269 GHz	-41.85 dBm		
M4		1	7.124 GHz	-42.19 dBm		
M5		1	9.5327 GHz	-40.90 dBm		

Date: 17.OCT.2022 15:05:43

Tx. Spurious NVNT n20 2437MHz Ant1 Emission

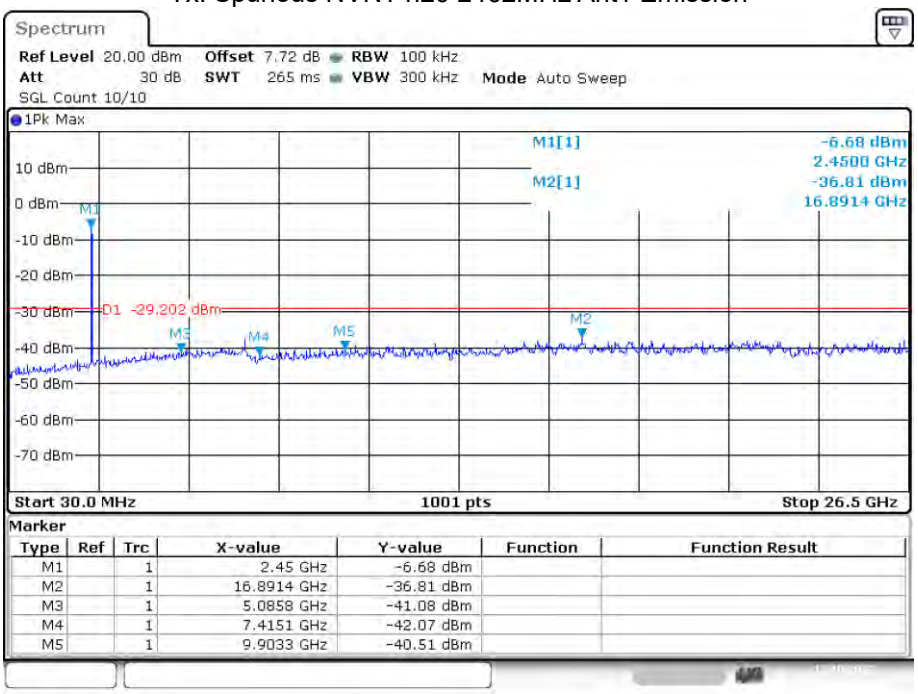


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-9.29 dBm		
M2		1	15.9385 GHz	-37.59 dBm		
M3		1	5.0328 GHz	-40.86 dBm		
M4		1	7.4681 GHz	-42.12 dBm		
M5		1	9.8504 GHz	-40.01 dBm		

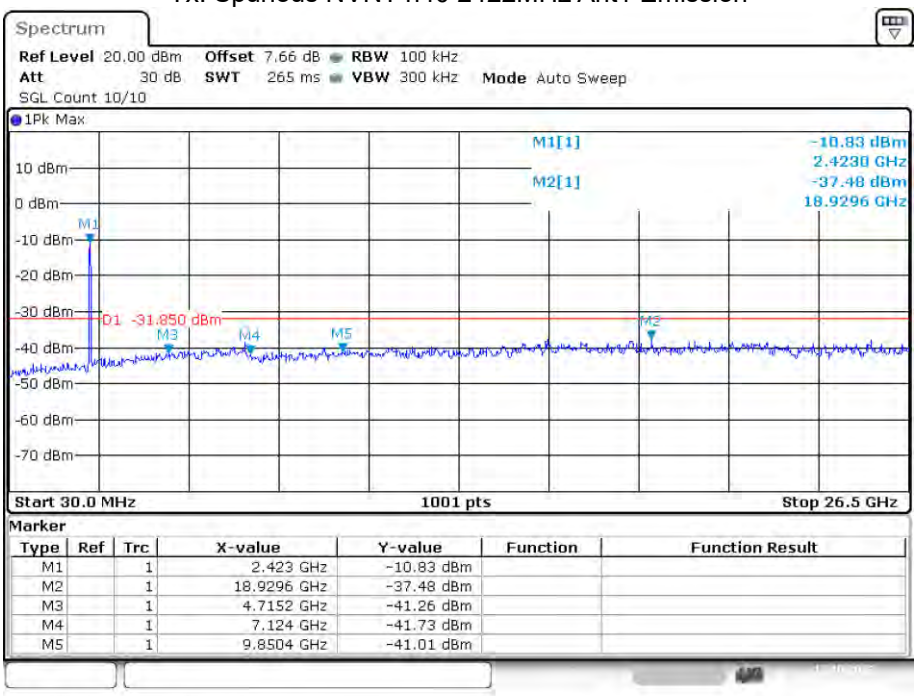
Date: 17.OCT.2022 15:09:30

Tx. Spurious NVNT n20 2462MHz Ant1 Emission



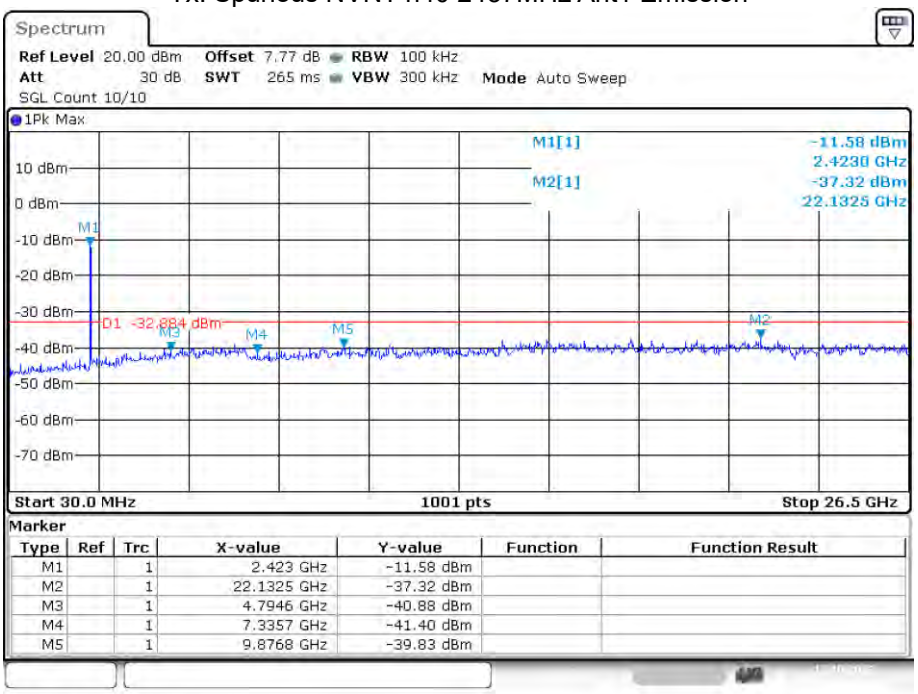
Date: 17.OCT.2022 15:13:52

Tx. Spurious NVNT n40 2422MHz Ant1 Emission



Date: 17.OCT.2022 15:20:43

Tx. Spurious NVNT n40 2437MHz Ant1 Emission

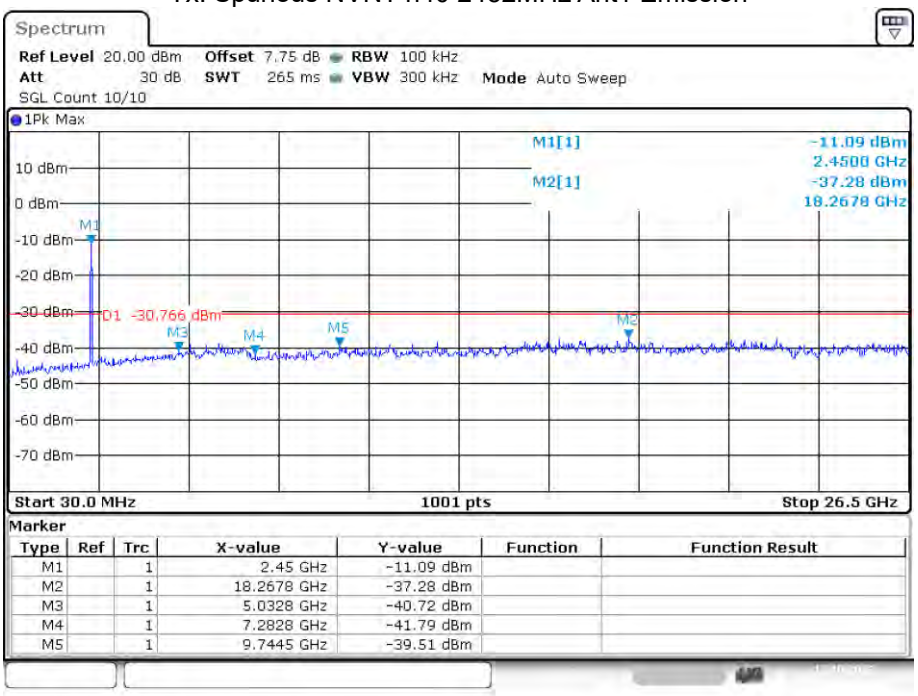


Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.423 GHz	-11.58 dBm		
M2		1	22.1325 GHz	-37.32 dBm		
M3		1	4.7946 GHz	-40.88 dBm		
M4		1	7.3357 GHz	-41.40 dBm		
M5		1	9.8768 GHz	-39.83 dBm		

Date: 17.OCT.2022 15:26:02

Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Marker

Type	Ref	Trc	X-value	Y-value	Function	Function Result
M1		1	2.45 GHz	-11.09 dBm		
M2		1	18.2678 GHz	-37.28 dBm		
M3		1	5.0328 GHz	-40.72 dBm		
M4		1	7.2828 GHz	-41.79 dBm		
M5		1	9.7445 GHz	-39.51 dBm		

Date: 17.OCT.2022 15:32:44

4. POWER LINE CONDUCTED EMISSION

4.1. Test Limits

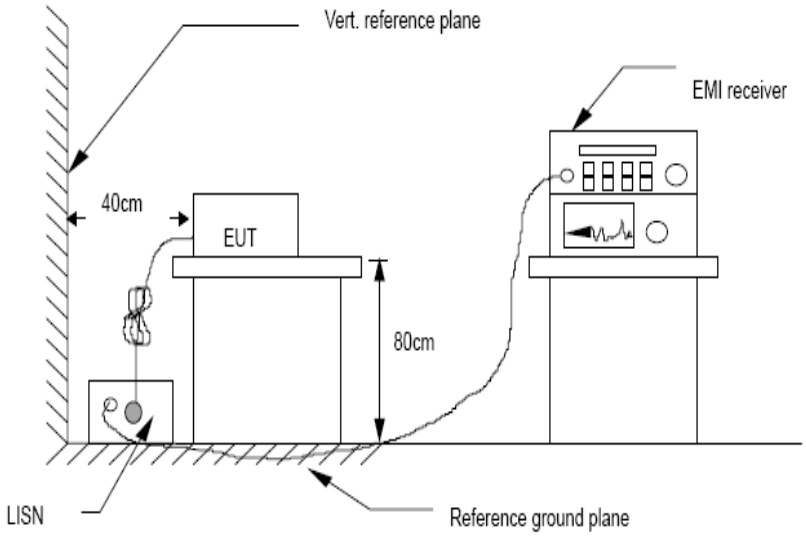
Frequency	Limits dB(μV)	
MHz	Quasi-peak Level	Average Level
0.15 -0.50	66 -56*	56 - 46*
0.50 -5.00	56	46
5.00 -30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of 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 rang of 0.15 to 0.50 MHz.

4.2. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10:2013 on Conducted Emission Measurement.
The bandwidth of test receiver is set at 9 kHz.

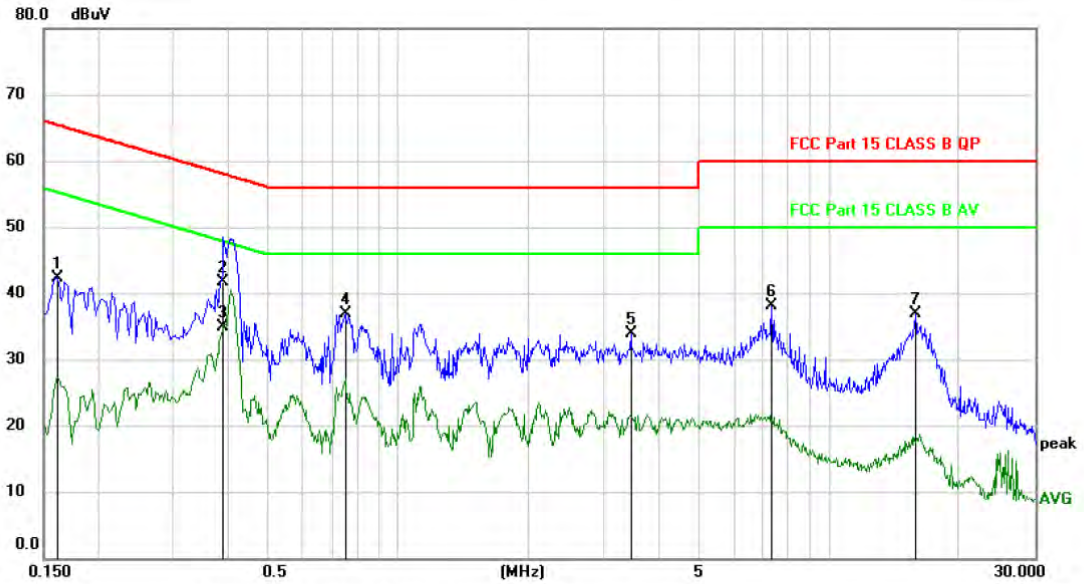
4.3. Test Setup



4.4. Test Results

PASS. (See below detailed test data)
Note: If peak Result comply with AV limit, QP and AV Result is deemed to comply with AV limit

Line:

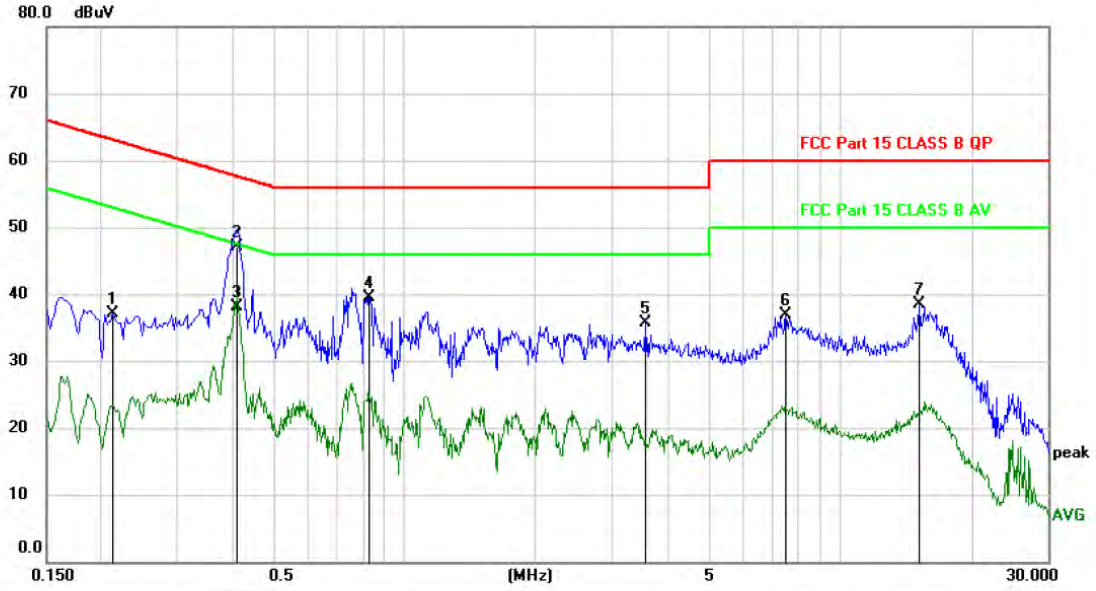


No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1620	32.42	9.93	42.35	65.36	-23.01	peak	
2		0.3930	31.69	9.94	41.63	58.00	-16.37	QP	
3	*	0.3930	25.06	9.94	35.00	48.00	-13.00	AVG	
4		0.7530	26.90	9.94	36.84	56.00	-19.16	peak	
5		3.4680	23.89	9.96	33.85	56.00	-22.15	peak	
6		7.3380	27.89	10.13	38.02	60.00	-21.98	peak	
7		15.8220	26.51	10.35	36.86	60.00	-23.14	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Neutral:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2130	27.12	9.93	37.05	63.09	-26.04	peak	
2		0.4110	37.18	9.94	47.12	57.63	-10.51	QP	
3	*	0.4110	28.16	9.94	38.10	47.63	-9.53	AVG	
4		0.8280	29.50	9.95	39.45	56.00	-16.55	peak	
5		3.5820	25.75	9.96	35.71	56.00	-20.29	peak	
6		7.4910	26.71	10.13	36.84	60.00	-23.16	peak	
7		15.2010	28.18	10.34	38.52	60.00	-21.48	peak	

*:Maximum data x:Over limit !:over margin 〈Reference Only

Note: Measurement=Reading Level+Correc Factor. Factor=(LISN or ISN or PLC or Current Probe)Factor+Cable

Note: All modes and channels have been tested and only the B mode 2412MHz mode with the worst data is listed.

5. CONDUCTED MAXIMUM OUTPUT POWER

5.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247.

Regulation 15.247(b) The limit of Maximum Peak Output Power Measurement is 1 W(30dBm)

5.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

5.2.1 Place the EUT on the table and set it in transmitting mode.

5.2.2 Connected the EUT's antenna port to peak power meter by 20dB attenuator.

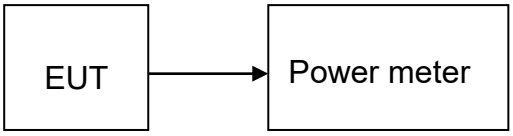
5.2.3 Measure out each mode and each bands peak output power of EUT.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.2.4 The measure-and-sum technique shall be used for measuring in-band transmit power of a device. Total power is the sum of the conducted power levels measured at the various output ports.

(First measure the power (mW) of each antenna separately, and the total power is equal to $Ant1^{mW}$ + $Ant2^{mW+....}$)

5.3. Test Setup



5.4. Test Results

PASS

Detailed information please see the following page.

Mode	Frequency (MHz)	Antenna	PK Output power(dBm)	Limit (dBm)	Result
IEEE 802.11b	CH1: 2412	Ant 1	12.397	30	PASS
	CH6: 2437	Ant 1	11.856	30	PASS
	CH11: 2462	Ant 1	12.721	30	PASS
IEEE 802.11g	CH1: 2412	Ant 1	12.397	30	PASS
	CH6: 2437	Ant 1	12.737	30	PASS
	CH11: 2462	Ant 1	12.536	30	PASS

Mode	Frequency (MHz)	Antenna	PK Output power(dBm)	Limit (dBm)	Result
IEEE 802.11n HT20	CH1: 2412	Ant 1	9.272	30	PASS
	CH6: 2437	Ant 1	9.781	30	PASS
	CH11: 2462	Ant 1	9.552	30	PASS
IEEE 802.11n HT40	CH3: 2422	Ant 1	9.354	30	PASS
	CH6: 2437	Ant 1	8.862	30	PASS
	CH9: 2452	Ant 1	9.612	30	PASS
IEEE 802.11n HT20	CH1: 2412	Ant 2	9.311	30	PASS
	CH6: 2437	Ant 2	9.489	30	PASS
	CH11: 2462	Ant 2	9.457	30	PASS
IEEE 802.11n HT40	CH3: 2422	Ant 2	9.696	30	PASS
	CH6: 2437	Ant 2	9.772	30	PASS
	CH9: 2452	Ant 2	9.395	30	PASS
IEEE 802.11n HT20	CH1: 2412	Ant 1+2	12.301	27.56	PASS
	CH6: 2437	Ant 1+2	12.647	27.56	PASS
	CH11: 2462	Ant 1+2	12.514	27.56	PASS
IEEE 802.11n HT40	CH3: 2422	Ant 1+2	12.537	27.56	PASS
	CH6: 2437	Ant 1+2	12.350	27.56	PASS
	CH9: 2452	Ant 1+2	12.514	27.56	PASS

Note: 1. 802.11 b/g mode shows the data of the worst antenna.

2. Directional gain=8.44dBi, so the Conducted Power Limit need to reduce 2.44.

3. In SISO mode, both antennas have been tested, and only the worst data of antenna 1 is displayed.

6. PEAK POWER SPECTRAL DENSITY

6.1. Test limits

6.1.1 Please refer RSS-247 & FCC PART 15: 15.247.

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

6.1.3 The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

6.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

6.2.1 Place the EUT on the table and set it in transmitting mode.

6.2.2 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.

6.2.3 Set the spectrum analyzer as RBW = 3kHz(Set the RBW to: 3 kHz≤RBW≤100 kHz.), VBW = 10kHz(Set the VBW≥3×RBW), span≥1.5×DTS bandwidth., detail see the test plot.

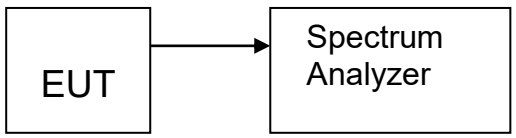
6.2.4 Record the max reading.

6.2.5 Repeat the above procedure until the measurements for all frequencies are completed.

6.2.6 The measure-and-sum technique shall be used for measuring in-band transmit power of a device. Total power is the sum of the conducted power spectral density levels measured at the various output ports.

(First measure the power (mW/MHz) of each antenna separately, and the total power is equal to $Ant1^{mW/MHz} + Ant2^{mW/MHz} + \cdots$)

6.3. Test Setup

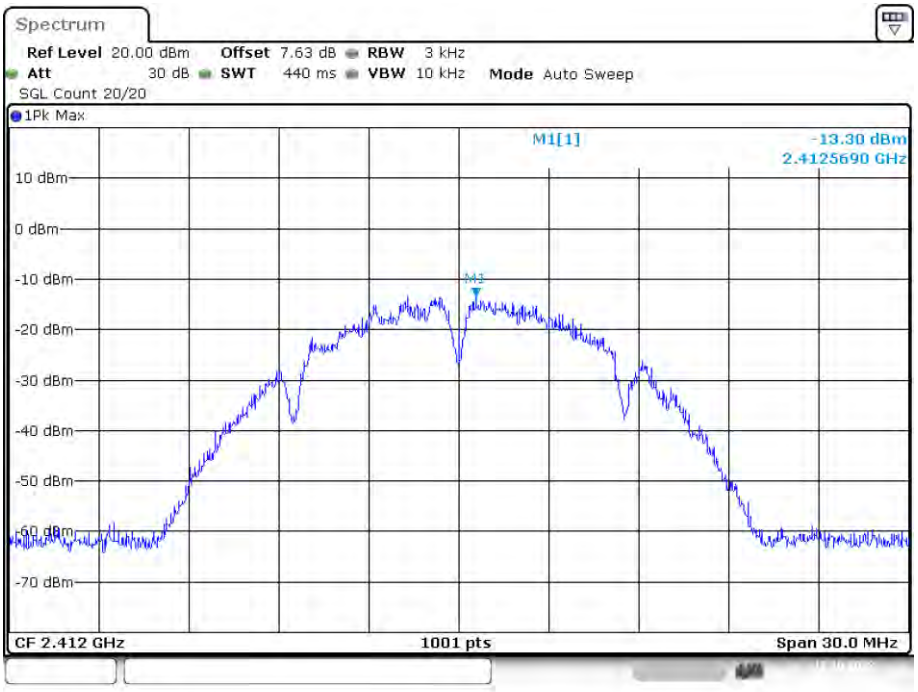


6.4. Test Results

Condition	Mode	Frequency (MHz)	Antenna	Max PSD (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	-13.3	8	Pass
NVNT	b	2437	Ant1	-14.095	8	Pass
NVNT	b	2462	Ant1	-13.24	8	Pass
NVNT	g	2412	Ant1	-18.263	8	Pass
NVNT	g	2437	Ant1	-18.029	8	Pass
NVNT	g	2462	Ant1	-18	8	Pass
NVNT	n20	2412	Ant 1	-18.352	8	Pass
NVNT	n20	2437	Ant 1	-20.438	8	Pass
NVNT	n20	2462	Ant 1	-19.532	8	Pass
NVNT	n40	2422	Ant 1	-21.321	8	Pass
NVNT	n40	2437	Ant 1	-22.142	8	Pass
NVNT	n40	2452	Ant 1	-18.089	8	Pass
NVNT	n20	2412	Ant 2	-21.929	8	Pass
NVNT	n20	2437	Ant 2	-21.258	8	Pass
NVNT	n20	2462	Ant 2	-22.350	8	Pass
NVNT	n40	2422	Ant 2	-23.355	8	Pass
NVNT	n40	2437	Ant 2	-23.427	8	Pass
NVNT	n40	2452	Ant 2	-22.365	8	Pass
NVNT	n20	2412	Ant 1+2	-16.78	5.56	Pass
NVNT	n20	2437	Ant 1+2	-17.83	5.56	Pass
NVNT	n20	2462	Ant 1+2	-17.72	5.56	Pass
NVNT	n40	2422	Ant 1+2	-19.21	5.56	Pass
NVNT	n40	2437	Ant 1+2	-19.75	5.56	Pass
NVNT	n40	2452	Ant 1+2	-16.72	5.56	Pass

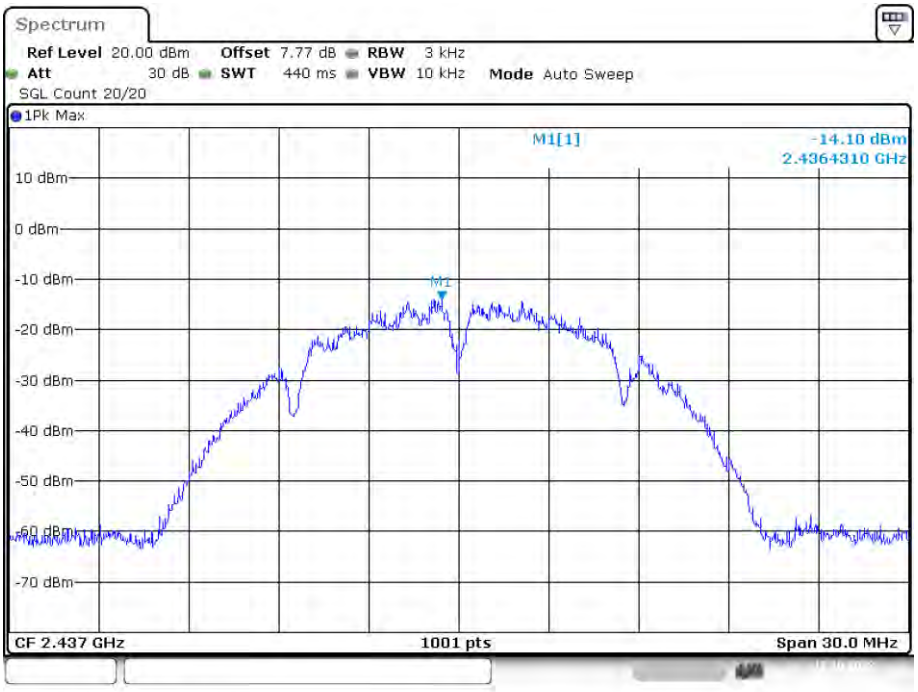
Note: 1. 802.11 b/g mode shows the data of the worst antenna.
2. Directional gain=8.44dBi, so the Conducted Power Limit need to reduce 2.44.
3. Both antennas have been tested, and only the worst data of antenna 1 is displayed.

PSD NVNT b 2412MHz Ant1



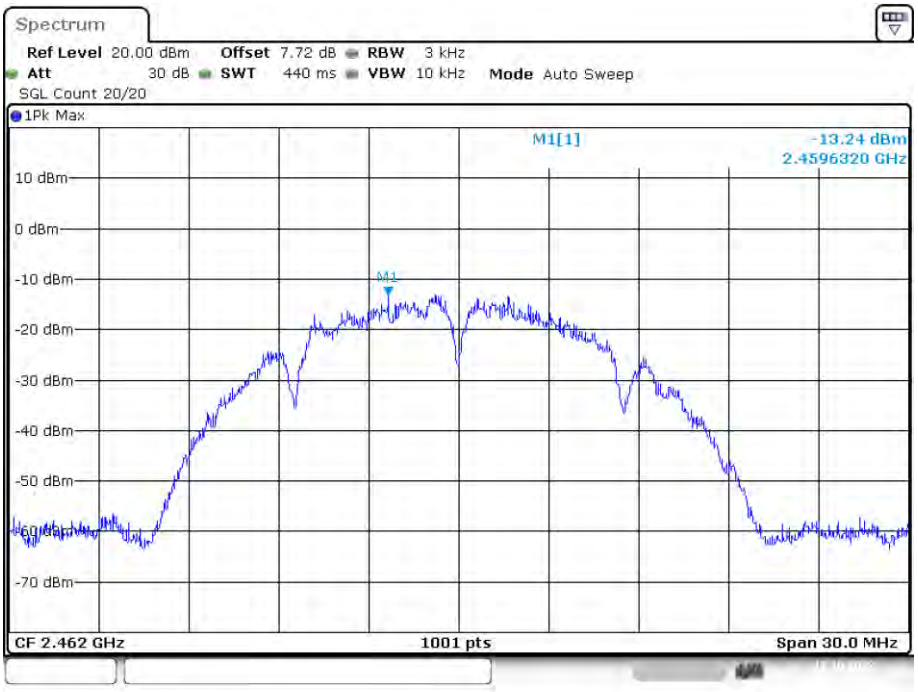
Date: 17.OCT.2022 14:25:31

PSD NVNT b 2437MHz Ant1



Date: 17.OCT.2022 14:34:03

PSD NVNT b 2462MHz Ant1



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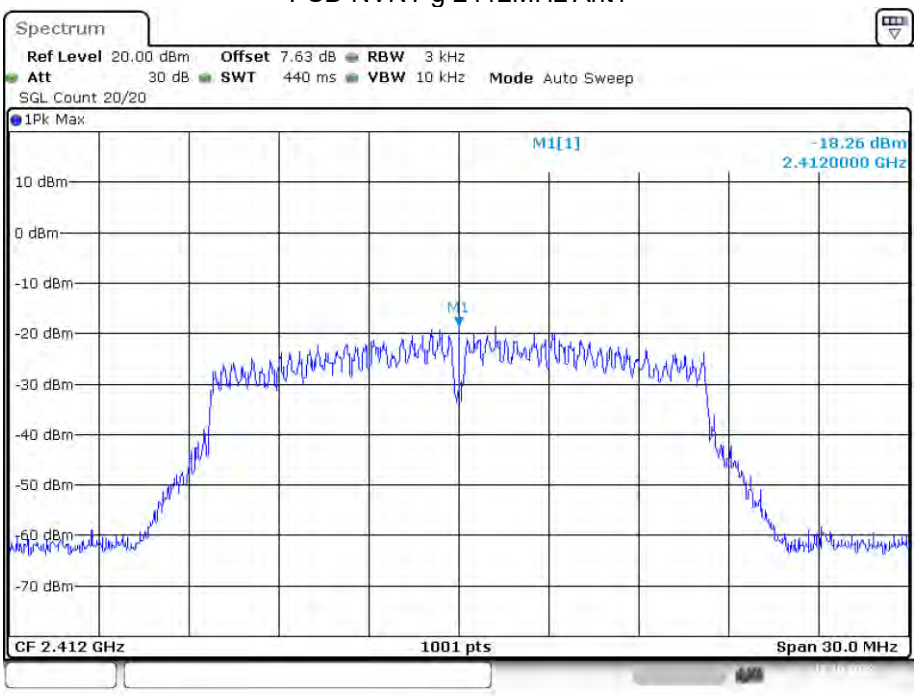
PSD NVNT g 2412MHz Ant1



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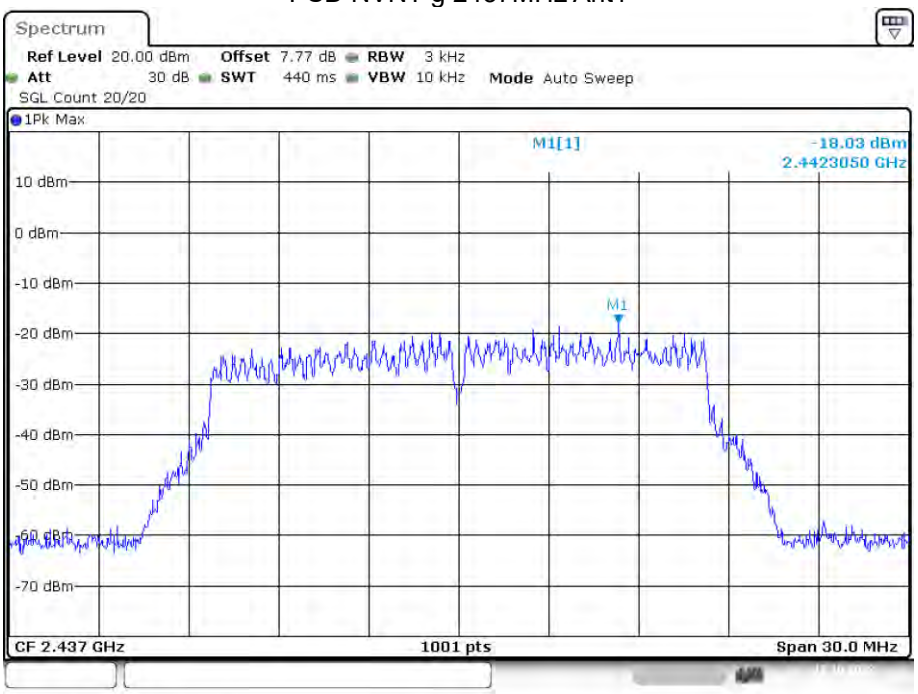
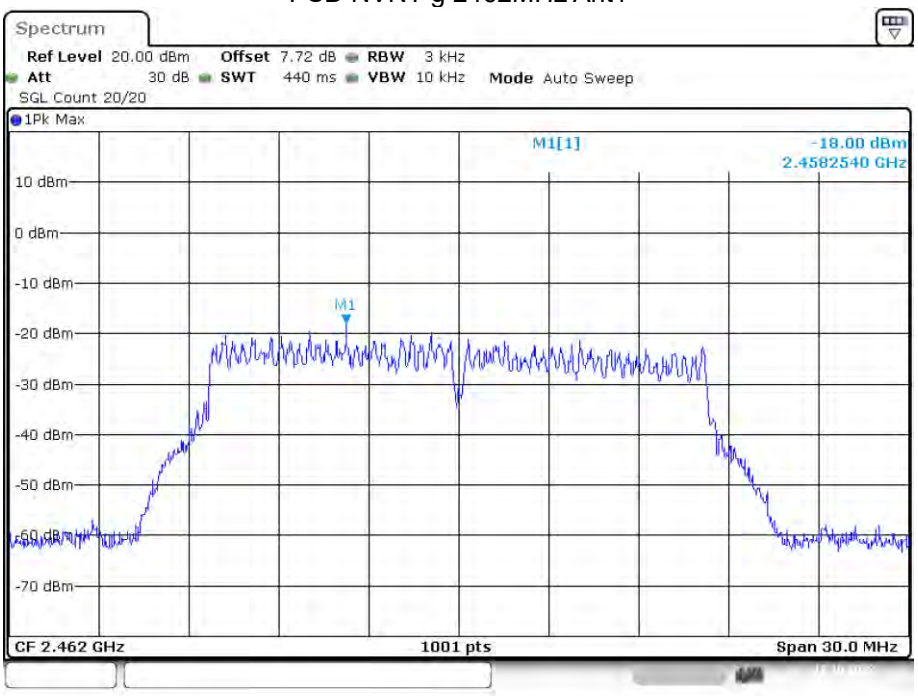


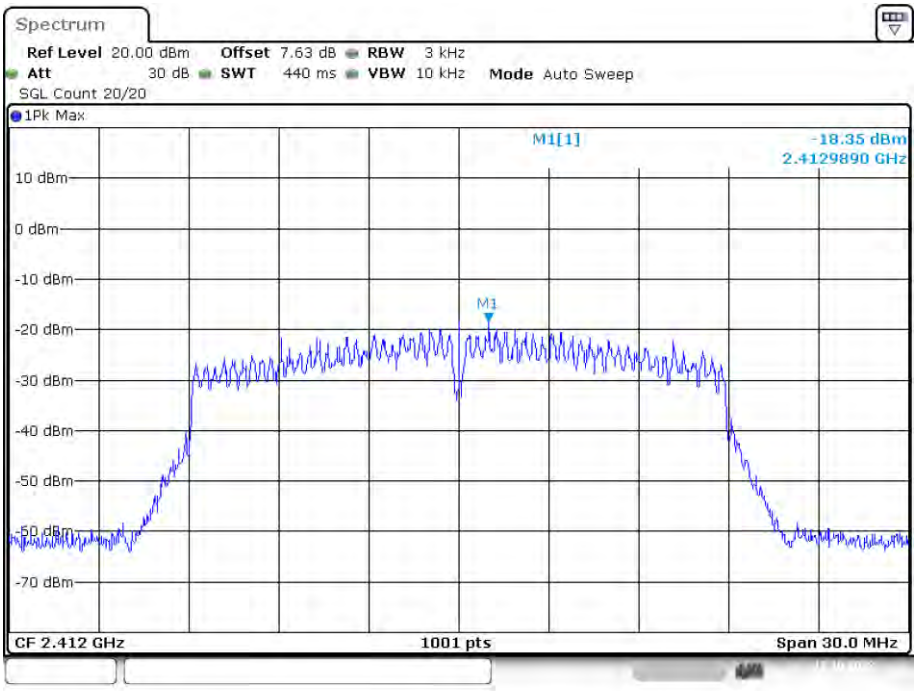
Date: 17.OCT.2022 14:57:50

PSD NVNT g 2462MHz Ant1

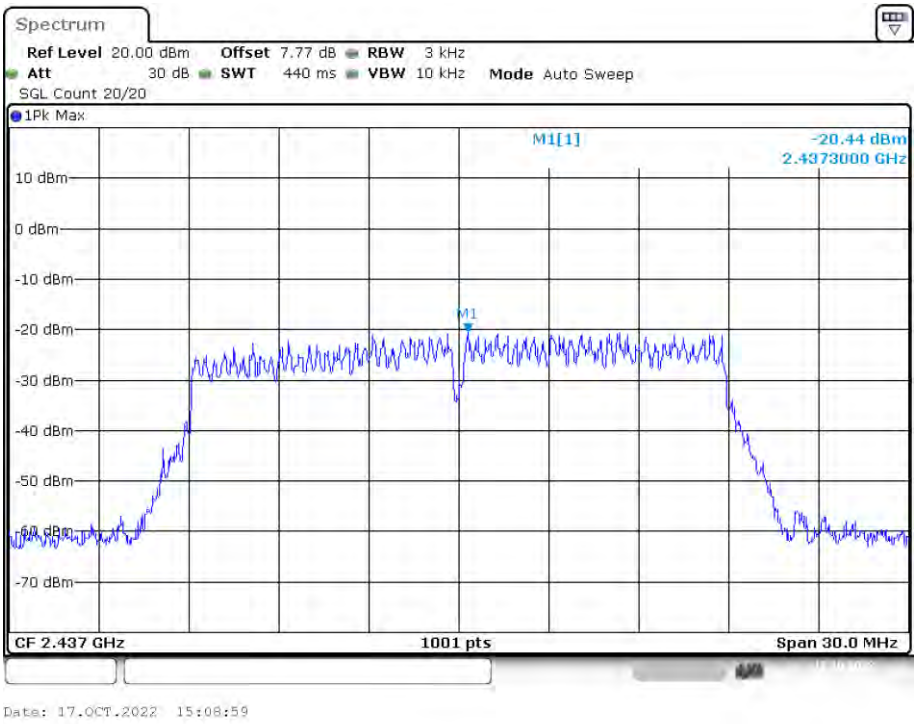


Date: 17.OCT.2022 15:01:50

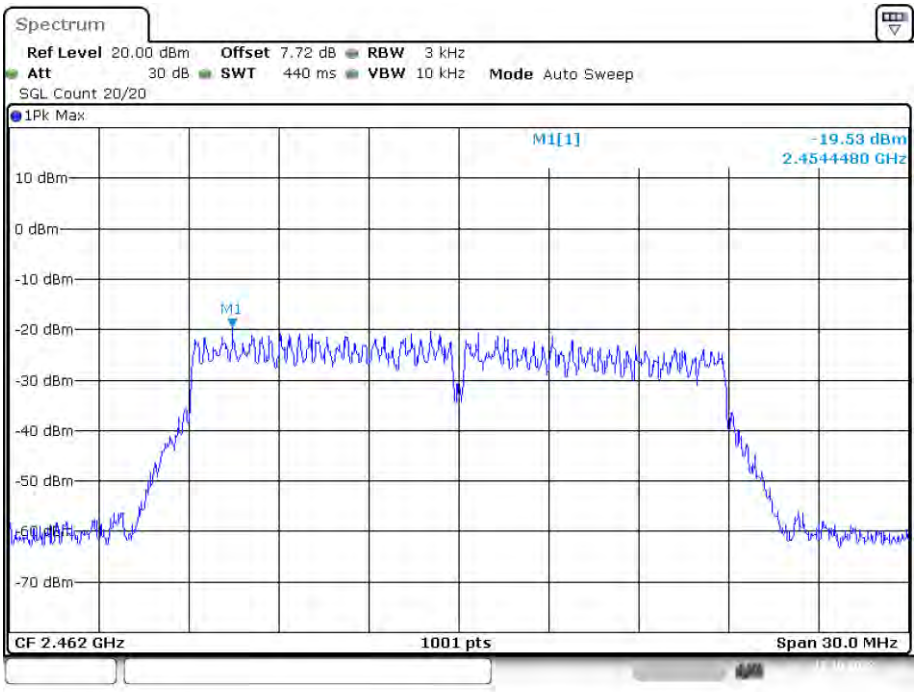
PSD NVNT n20 2412MHz Ant1



PSD NVNT n20 2437MHz Ant1



PSD NVNT n20 2462MHz Ant1



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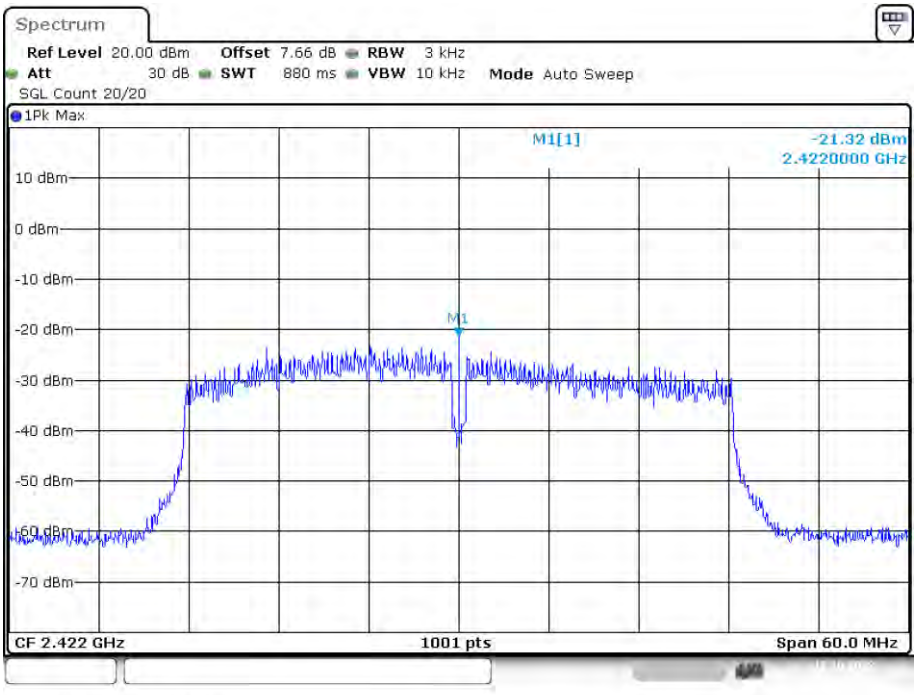
PSD NVNT n40 2422MHz Ant1



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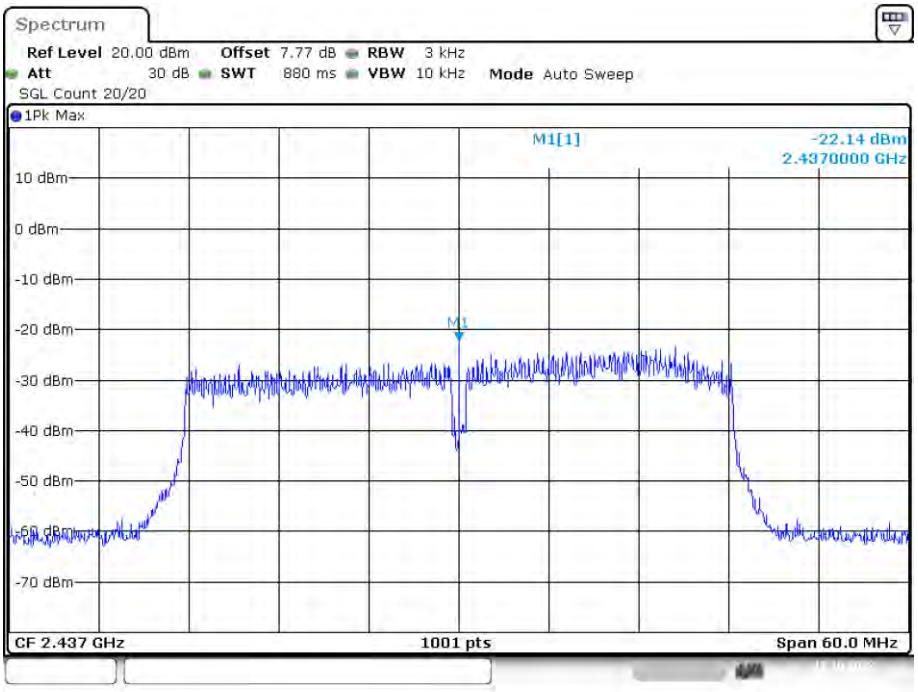
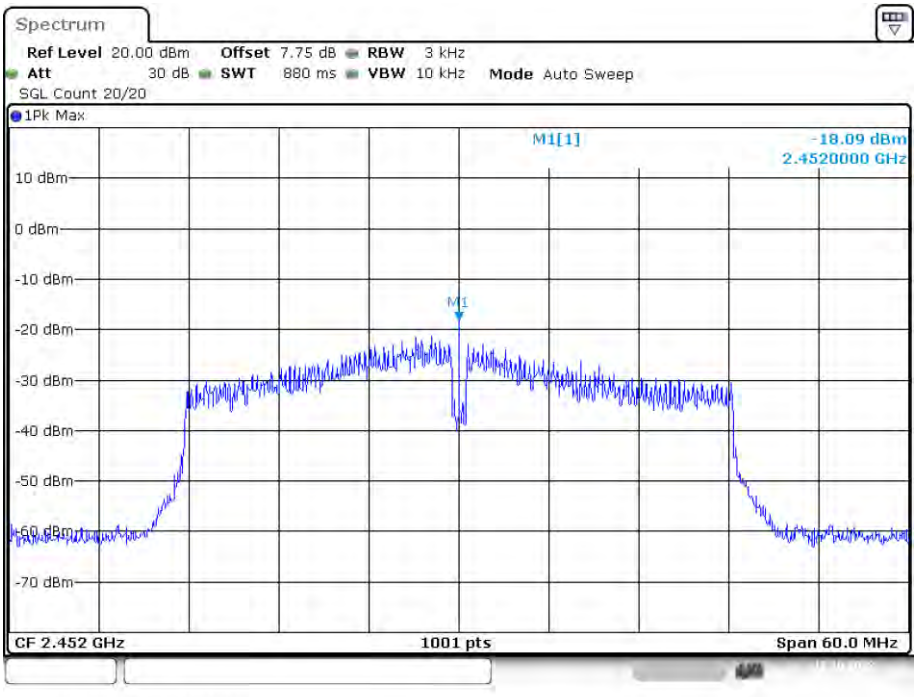


PSD NVNT n40 2452MHz Ant1



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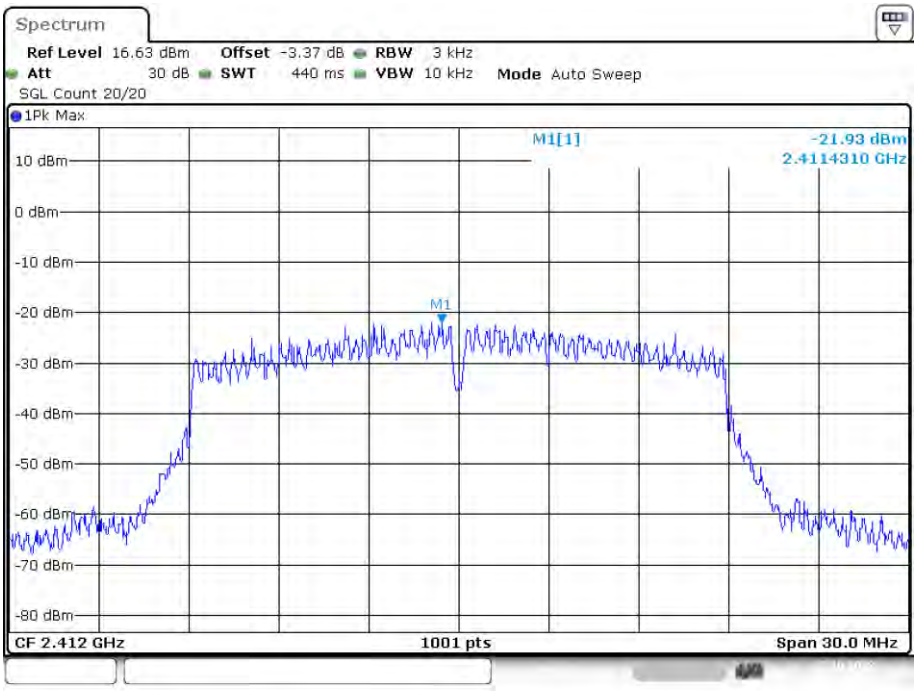
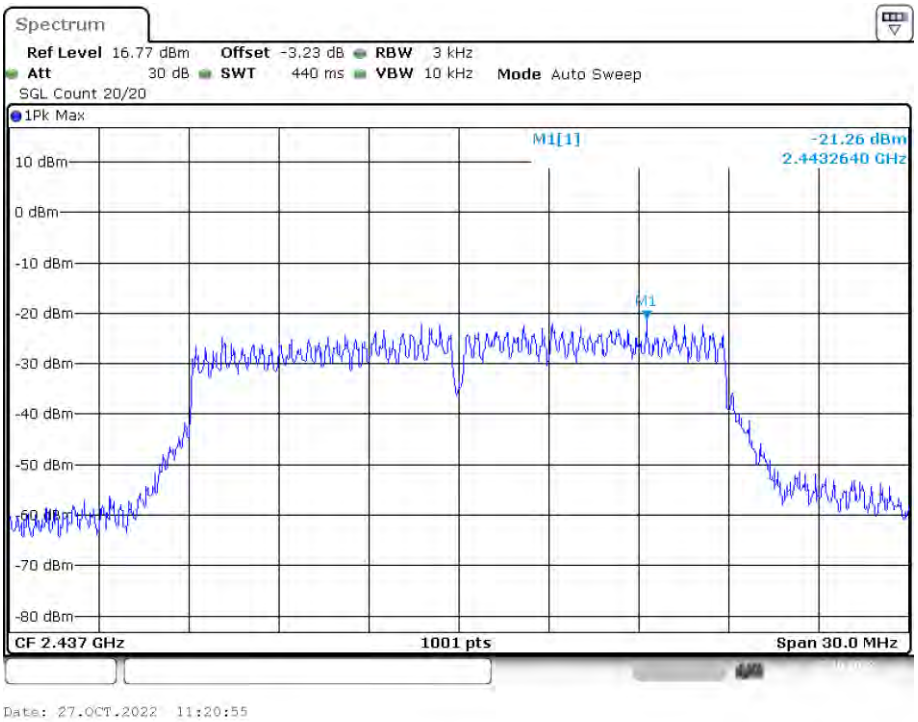
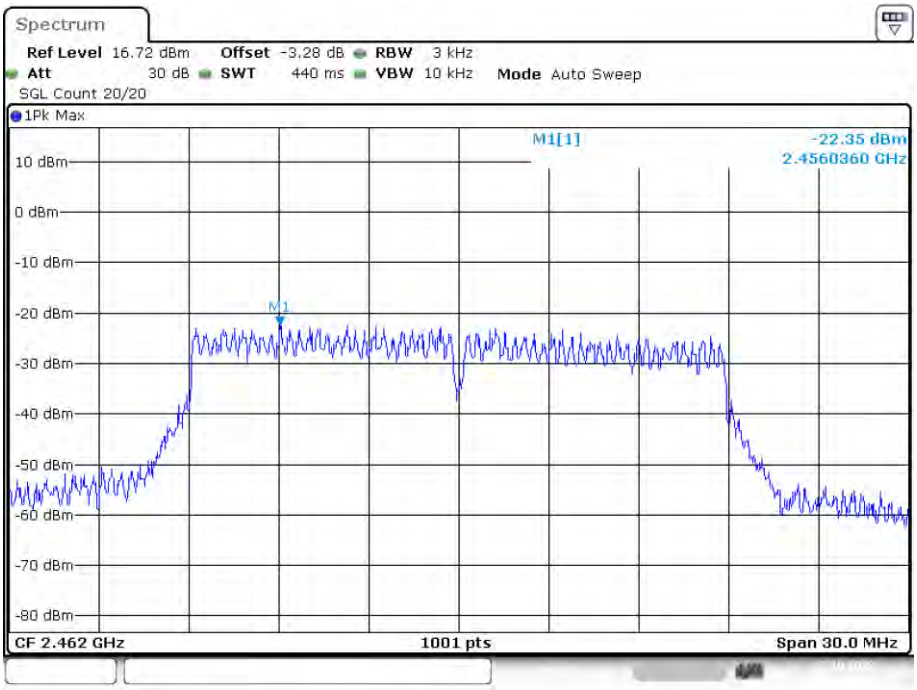


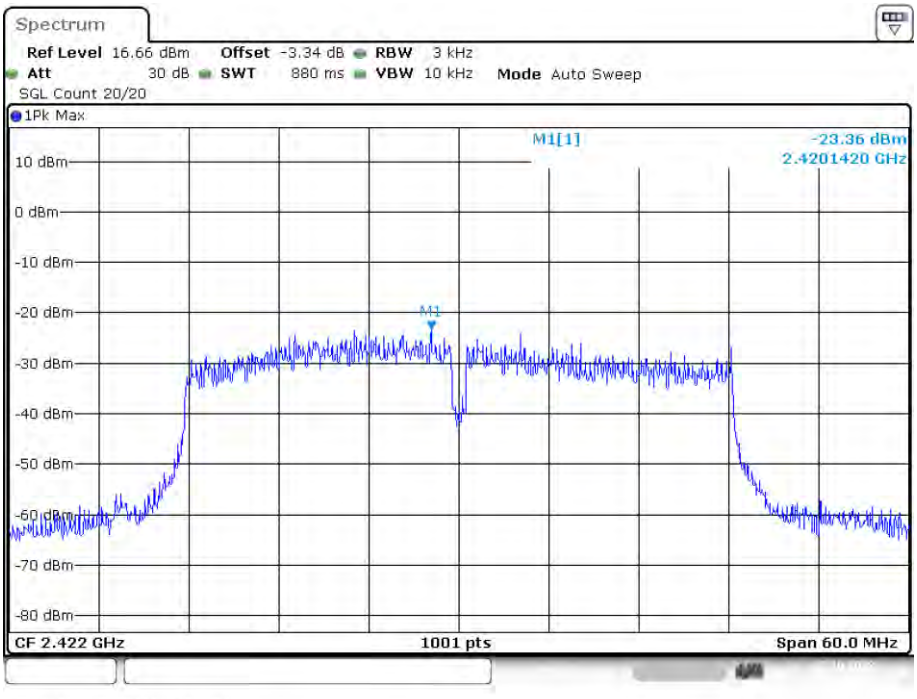
PSD NVNT n20 2437MHz Ant2



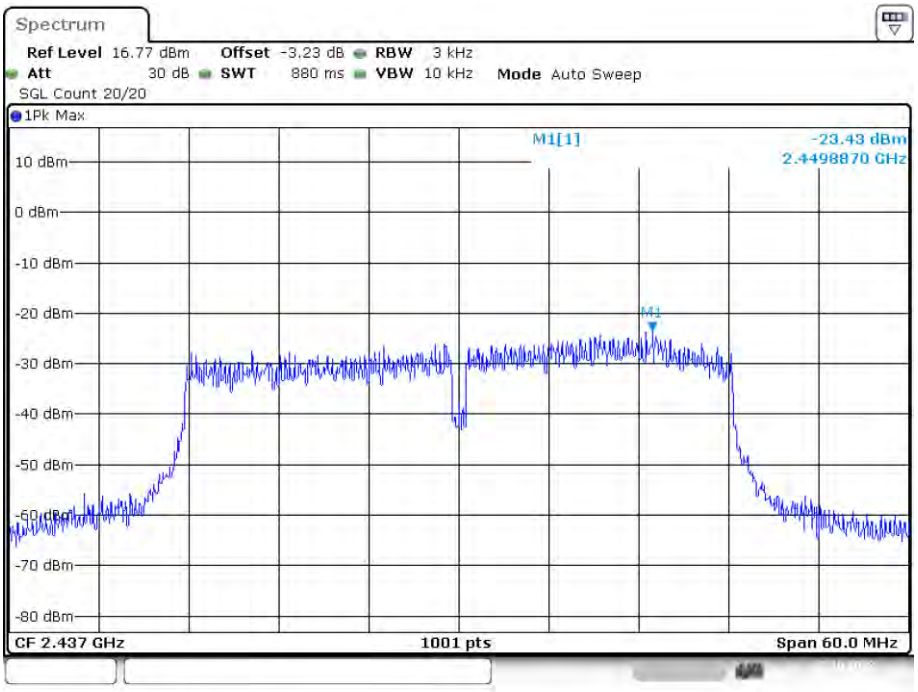
PSD NVNT n20 2462MHz Ant2



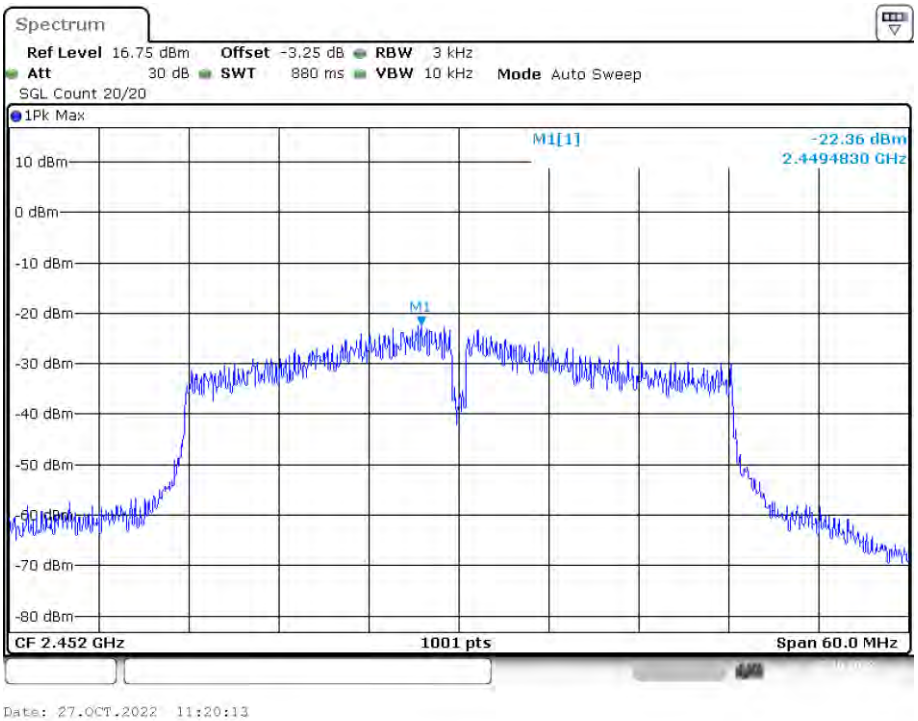
PSD NVNT n40 2422MHz Ant2



PSD NVNT n40 2437MHz Ant2



PSD NVNT n40 2452MHz Ant2



7. BANDWIDTH

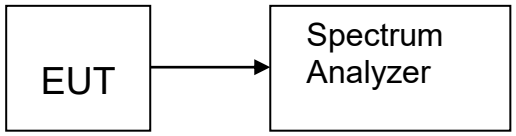
7.1. Test limits

Please refer RSS-247 & FCC PART 15: 15.247
For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 kHz.

7.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02
a) The bandwidth is measured at an amplitude level reduced 6dB from the reference level. The reference level is the level of the highest amplitude signal observed from the transmitter at the fundamental frequency. Once the reference level is established, the equipment is conditioned with typical modulating signal to produce the worst-case (i.e. the widest) bandwidth.
b) The test receiver set RBW = 100kHz, VBW≥3*RBW =300kHz,, Peak Detector, Sweep time set auto, detail see the test plot.

7.3. Test Setup

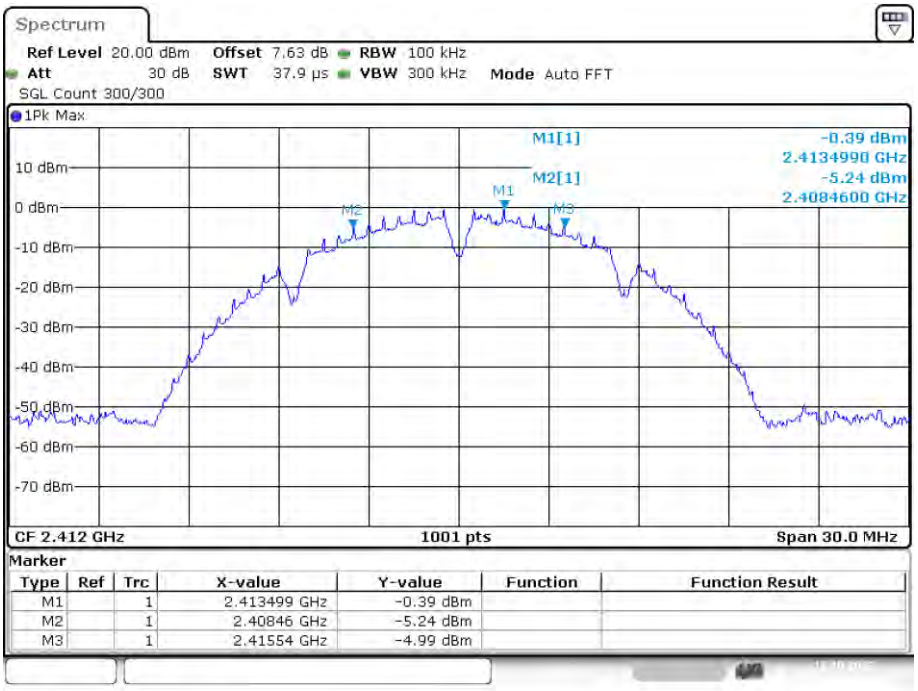


7.4. Test Results

-6dB Bandwidth

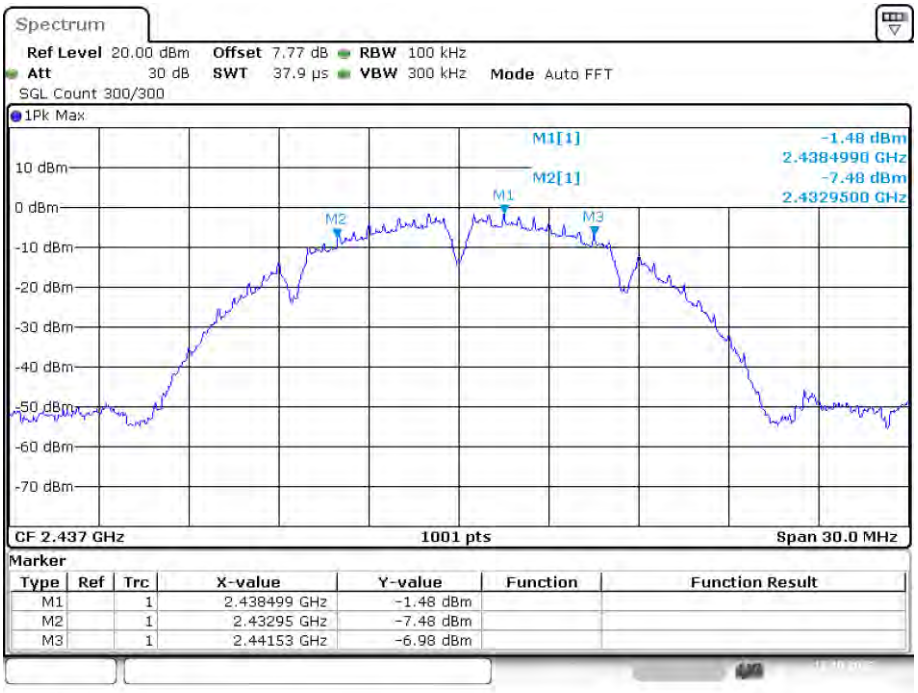
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	7.08	0.5	Pass
NVNT	b	2437	Ant1	8.58	0.5	Pass
NVNT	b	2462	Ant1	8.52	0.5	Pass
NVNT	g	2412	Ant1	16.05	0.5	Pass
NVNT	g	2437	Ant1	15.69	0.5	Pass
NVNT	g	2462	Ant1	16.5	0.5	Pass
NVNT	n20	2412	Ant1	15.66	0.5	Pass
NVNT	n20	2437	Ant1	17.67	0.5	Pass
NVNT	n20	2462	Ant1	17.73	0.5	Pass
NVNT	n40	2422	Ant1	33.84	0.5	Pass
NVNT	n40	2437	Ant1	35.16	0.5	Pass
NVNT	n40	2452	Ant1	14.04	0.5	Pass

-6dB Bandwidth NVNT b 2412MHz Ant1



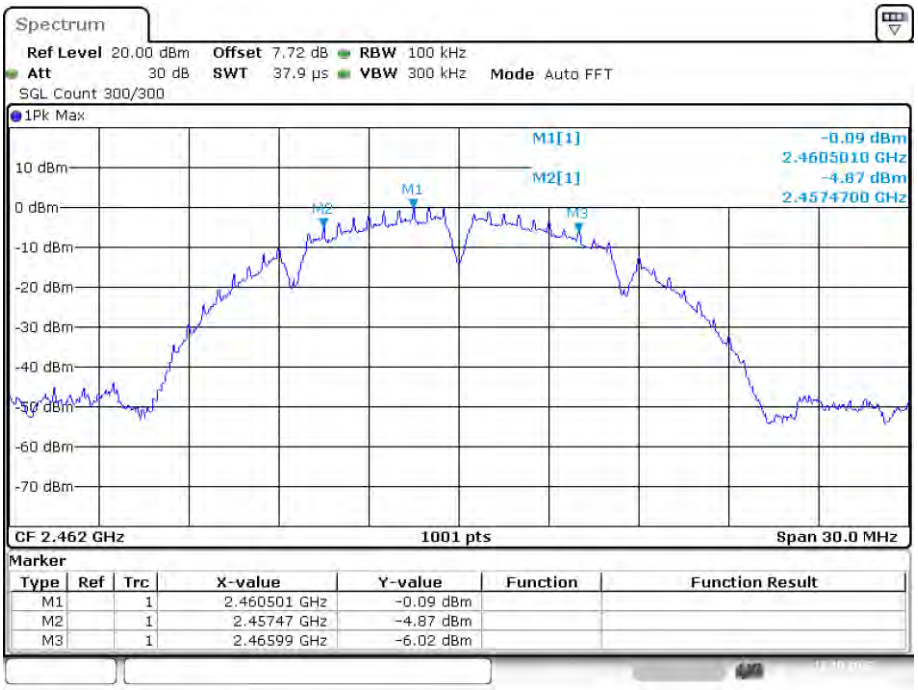
Date: 17.OCT.2022 14:25:11

-6dB Bandwidth NVNT b 2437MHz Ant1

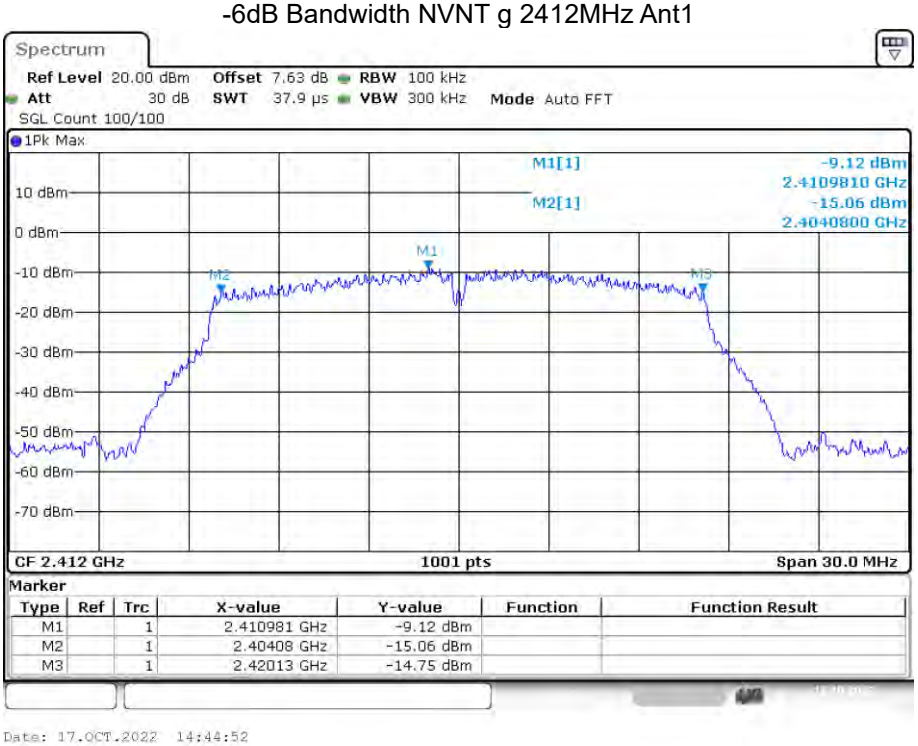


Date: 17.OCT.2022 14:33:43

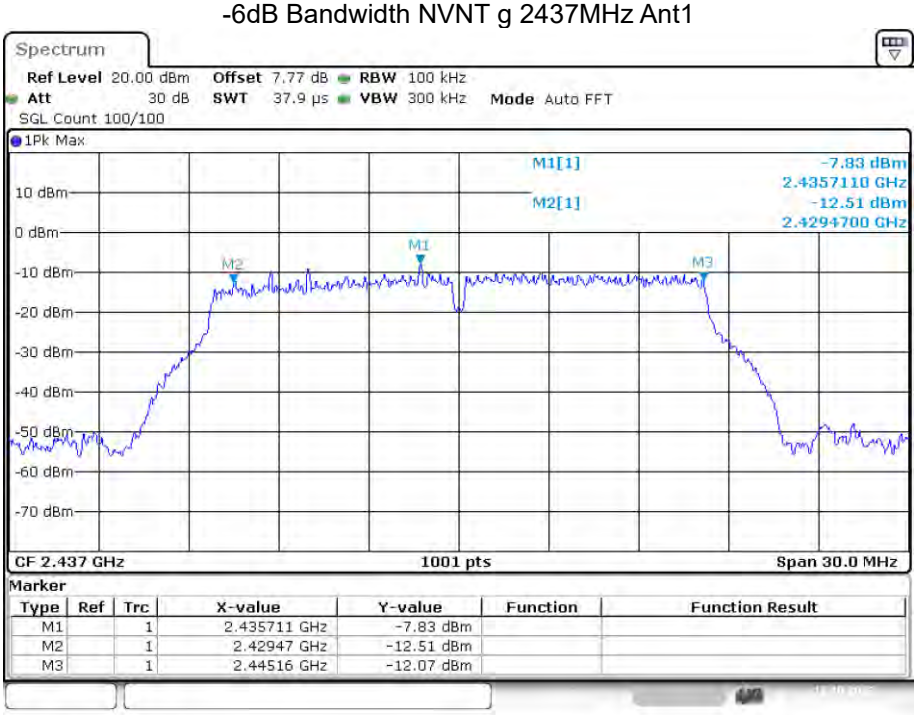
-6dB Bandwidth NVNT b 2462MHz Ant1



-6dB Bandwidth NVNT g 2412MHz Ant1

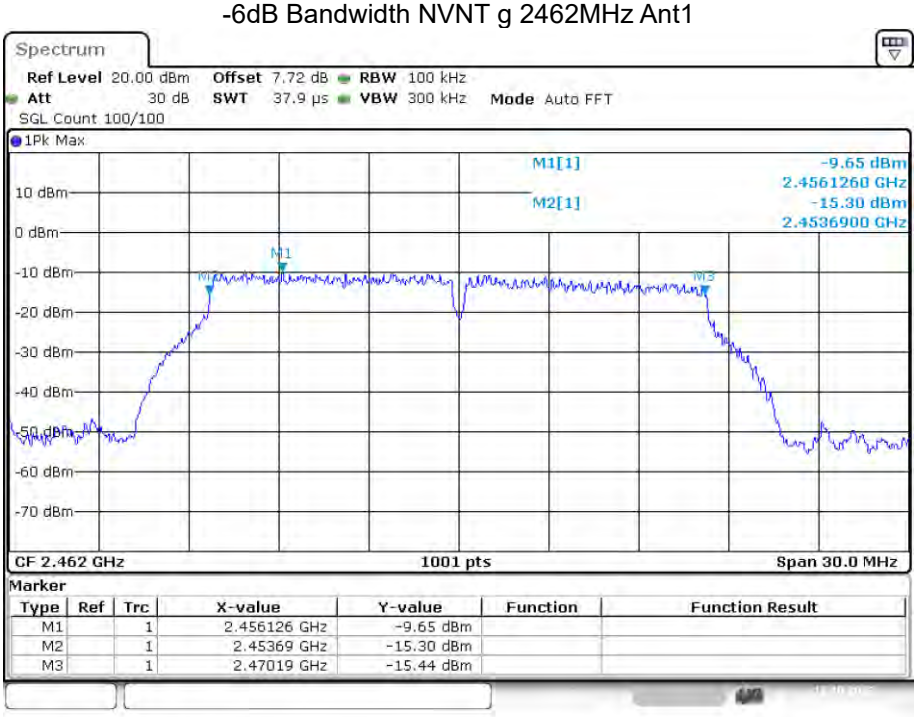


-6dB Bandwidth NVNT g 2437MHz Ant1



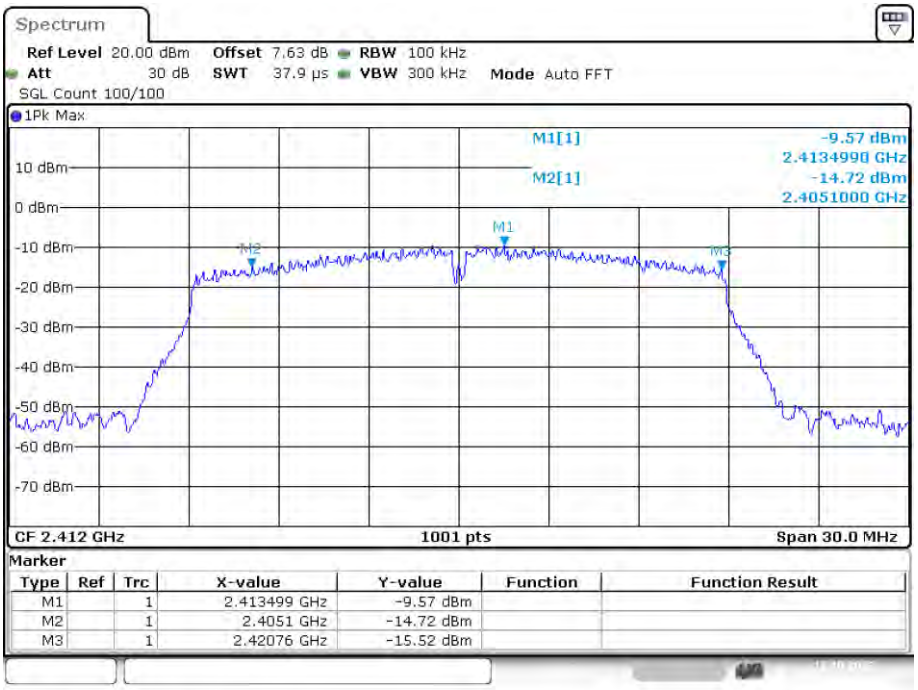
Date: 17.OCT.2022 14:57:25

-6dB Bandwidth NVNT g 2462MHz Ant1



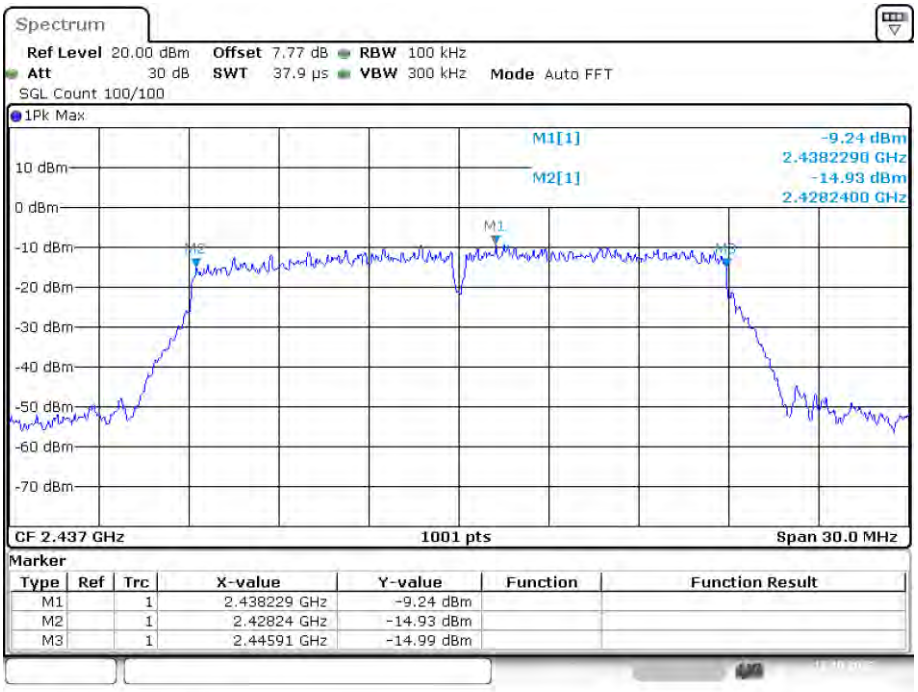
Date: 17.OCT.2022 15:01:26

-6dB Bandwidth NVNT n20 2412MHz Ant1



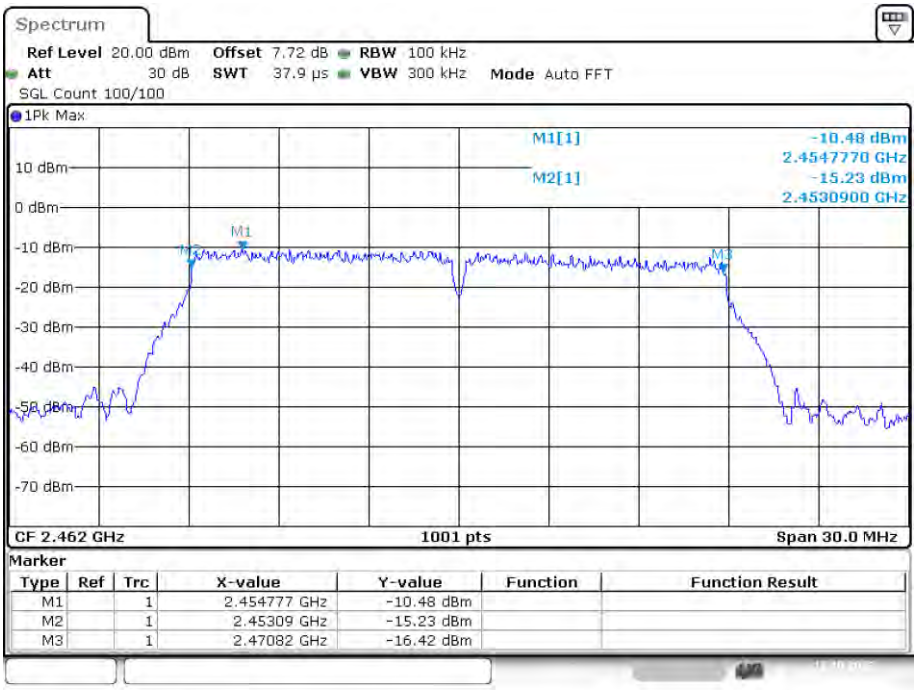
Date: 17.OCT.2022 15:04:29

-6dB Bandwidth NVNT n20 2437MHz Ant1



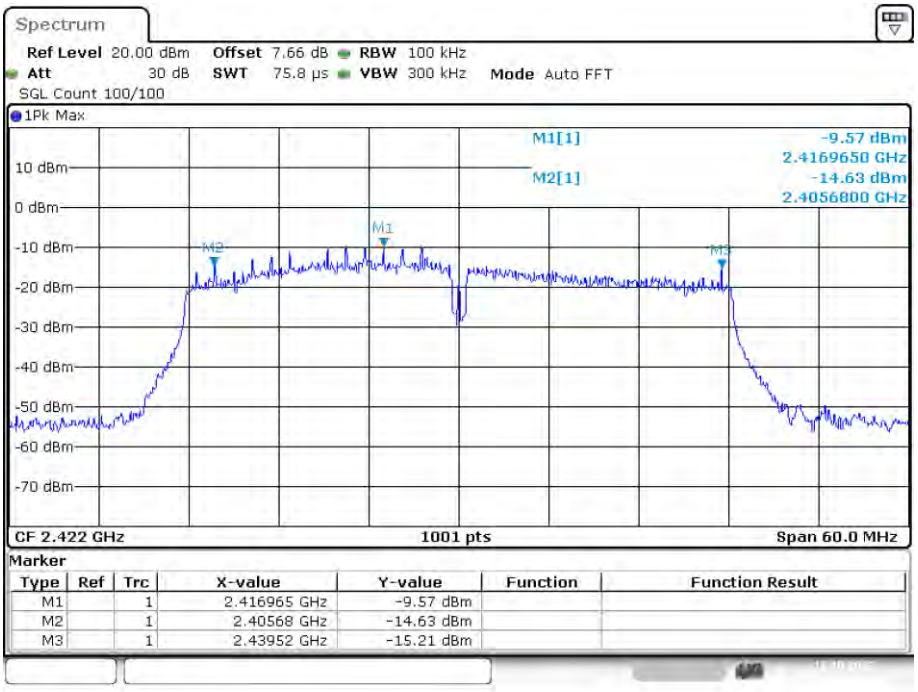
Date: 17.OCT.2022 15:08:21

-6dB Bandwidth NVNT n20 2462MHz Ant1



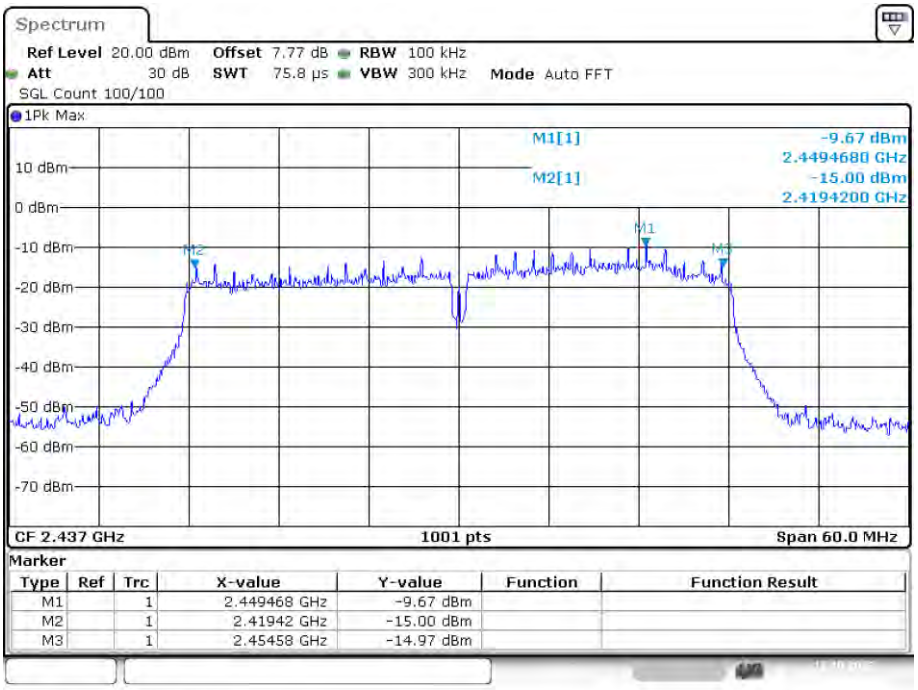
Date: 17.OCT.2022 15:12:29

-6dB Bandwidth NVNT n40 2422MHz Ant1



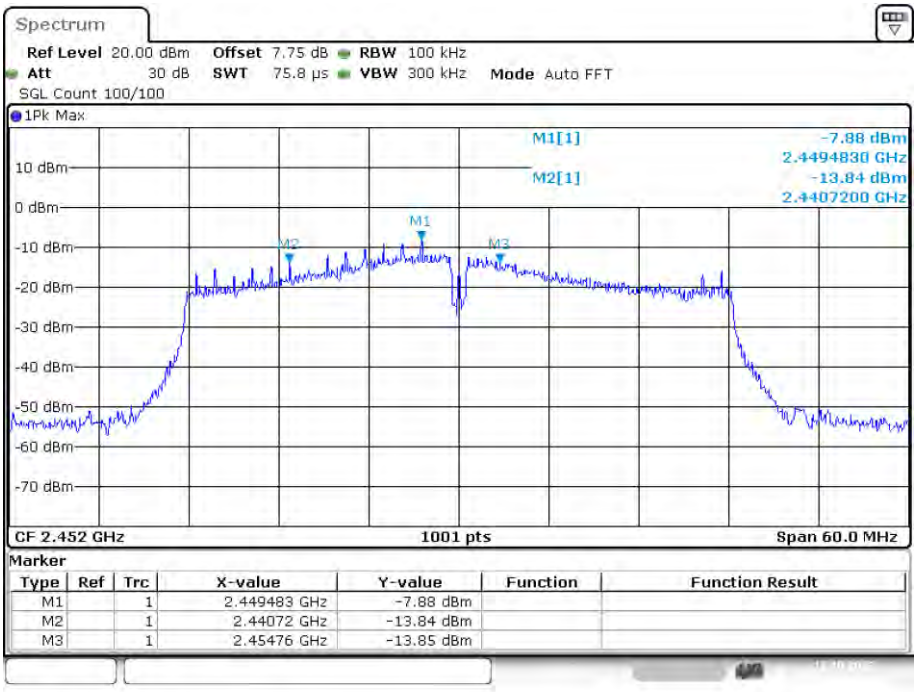
Date: 17.OCT.2022 15:17:19

-6dB Bandwidth NVNT n40 2437MHz Ant1



Date: 17.OCT.2022 15:24:40

-6dB Bandwidth NVNT n40 2452MHz Ant1

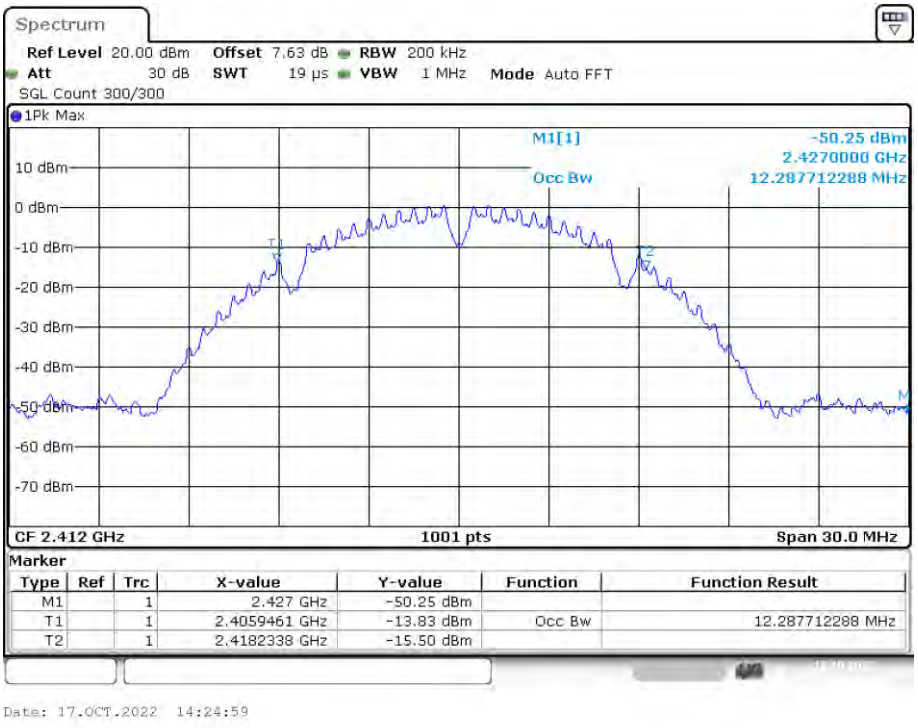


Date: 17.OCT.2022 15:30:44

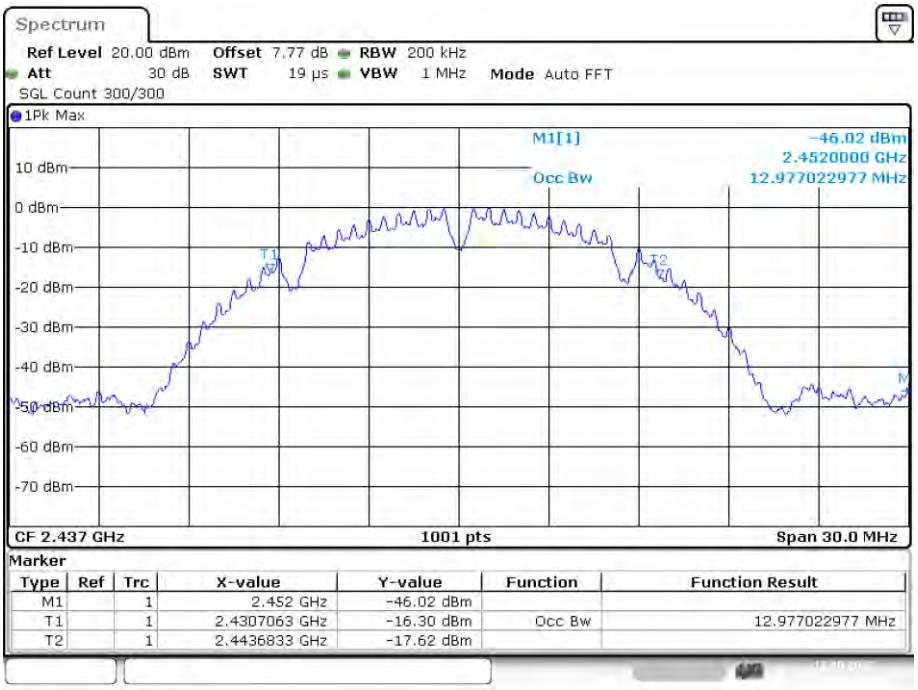
Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	12.288
NVNT	b	2437	Ant1	12.977
NVNT	b	2462	Ant1	13.367
NVNT	g	2412	Ant1	16.214
NVNT	g	2437	Ant1	16.573
NVNT	g	2462	Ant1	16.543
NVNT	n20	2412	Ant1	17.413
NVNT	n20	2437	Ant1	17.712
NVNT	n20	2462	Ant1	17.742
NVNT	n40	2422	Ant1	35.724
NVNT	n40	2437	Ant1	36.144
NVNT	n40	2452	Ant1	35.664

OBW NVNT b 2412MHz Ant1

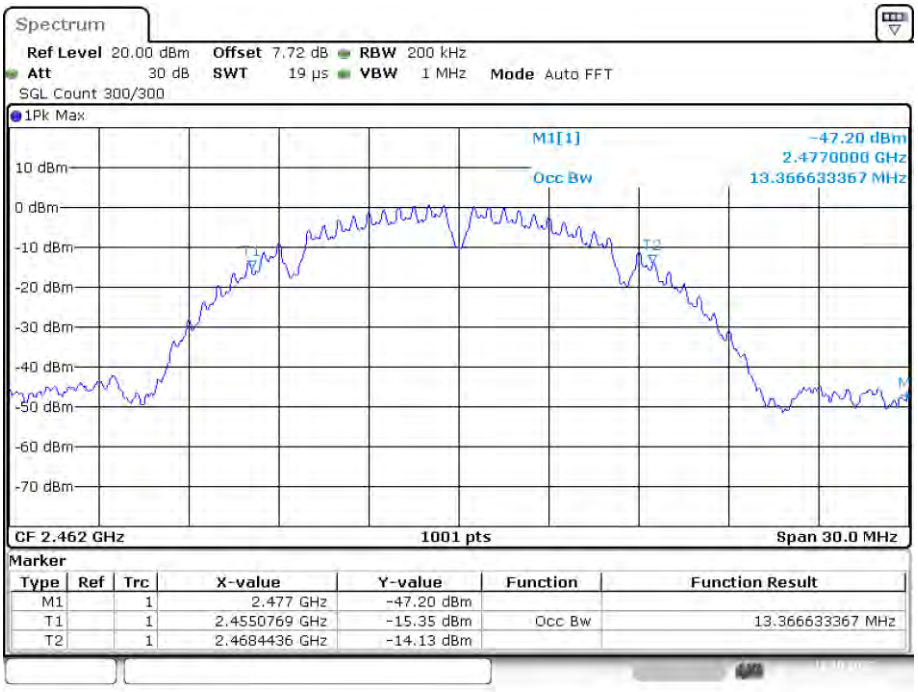


OBW NVNT b 2437MHz Ant1



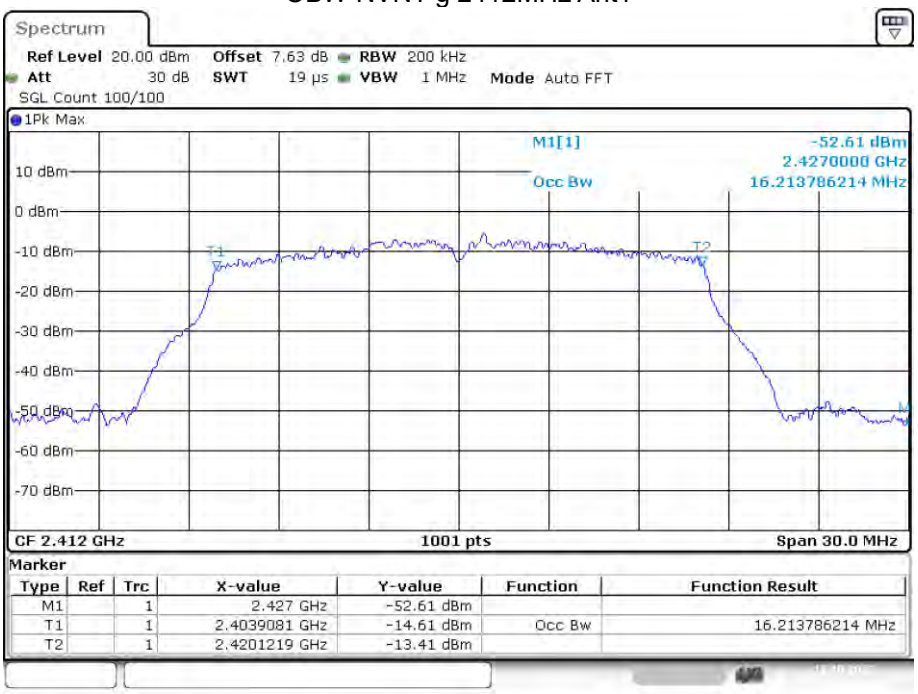
Date: 17.OCT.2022 14:33:32

OBW NVNT b 2462MHz Ant1



Date: 17.OCT.2022 14:39:31

OBW NVNT g 2412MHz Ant1



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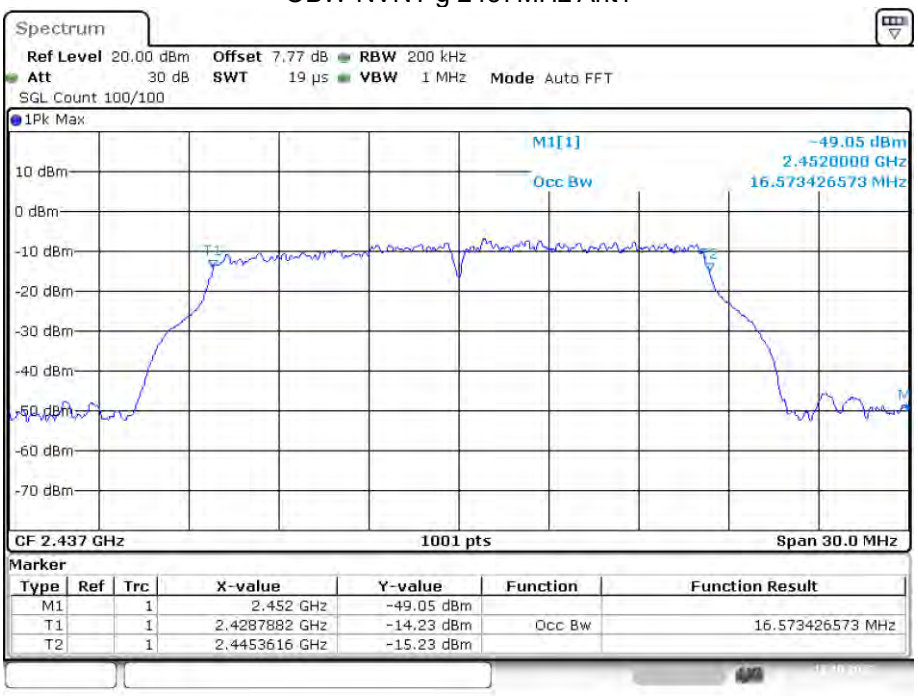

Date: 17.OCT.2022 14:57:12

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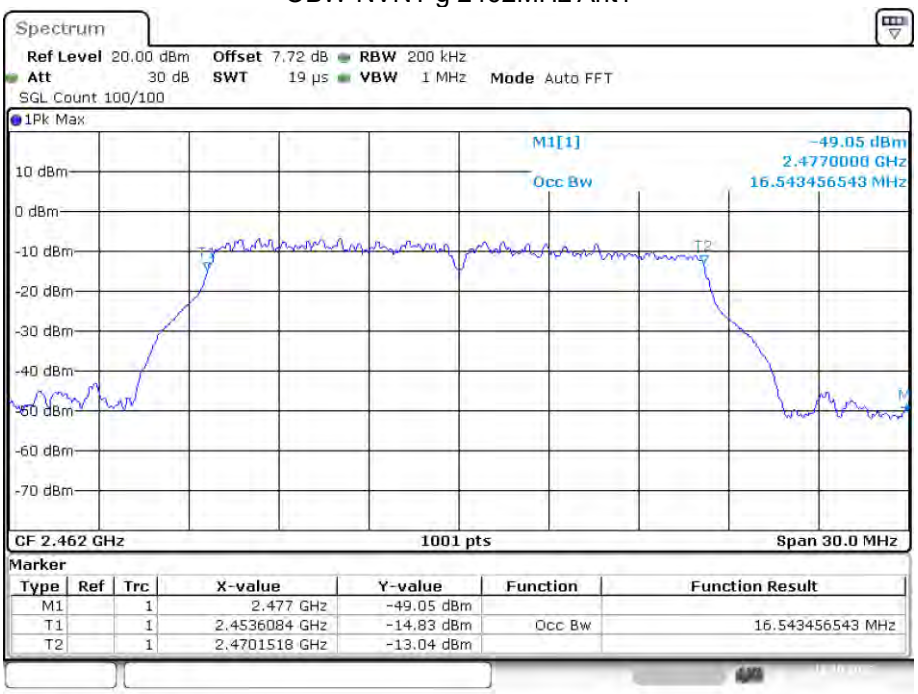

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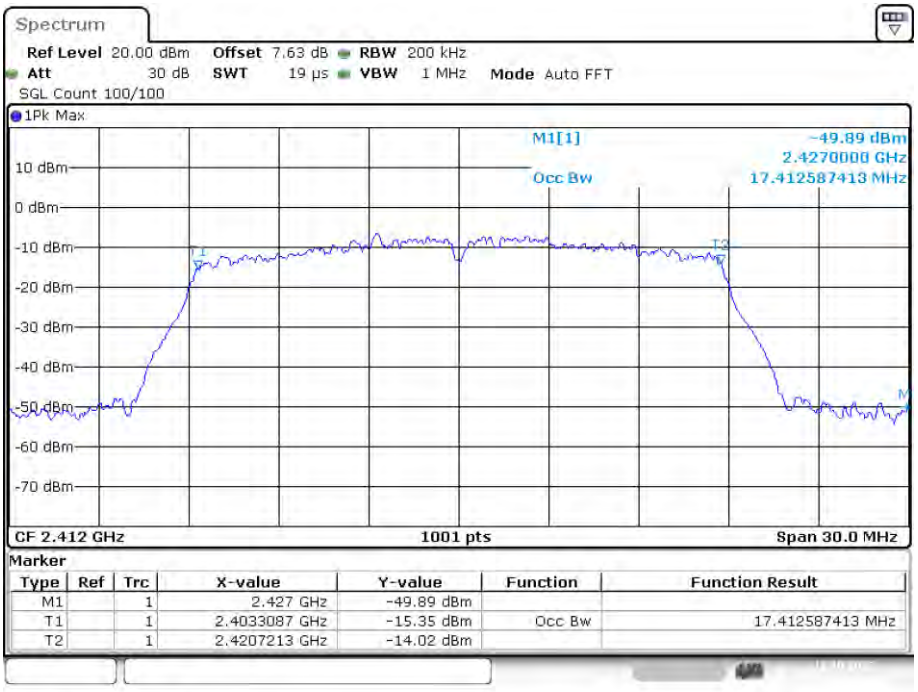

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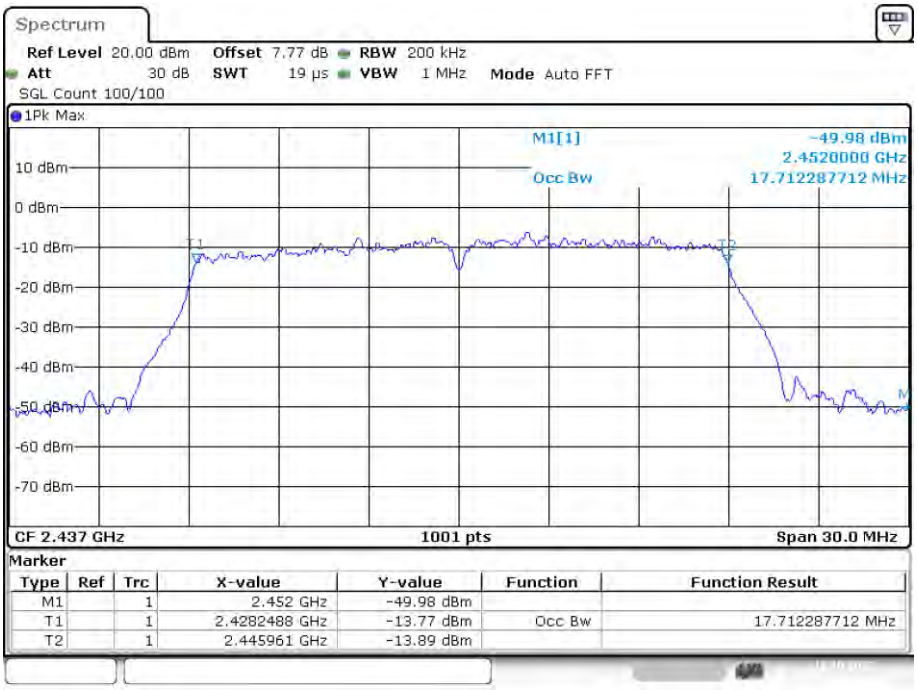

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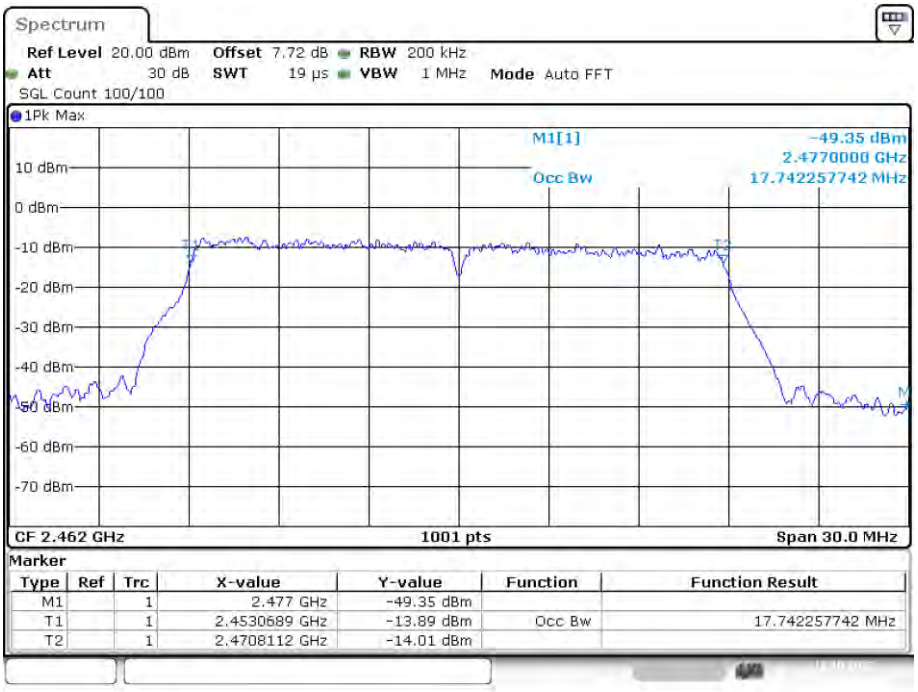

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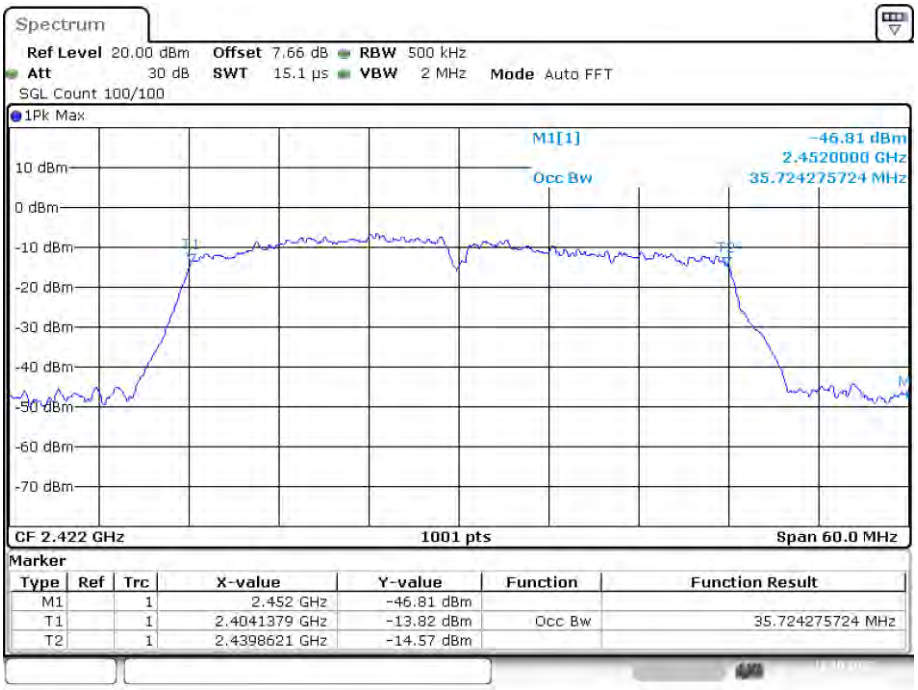
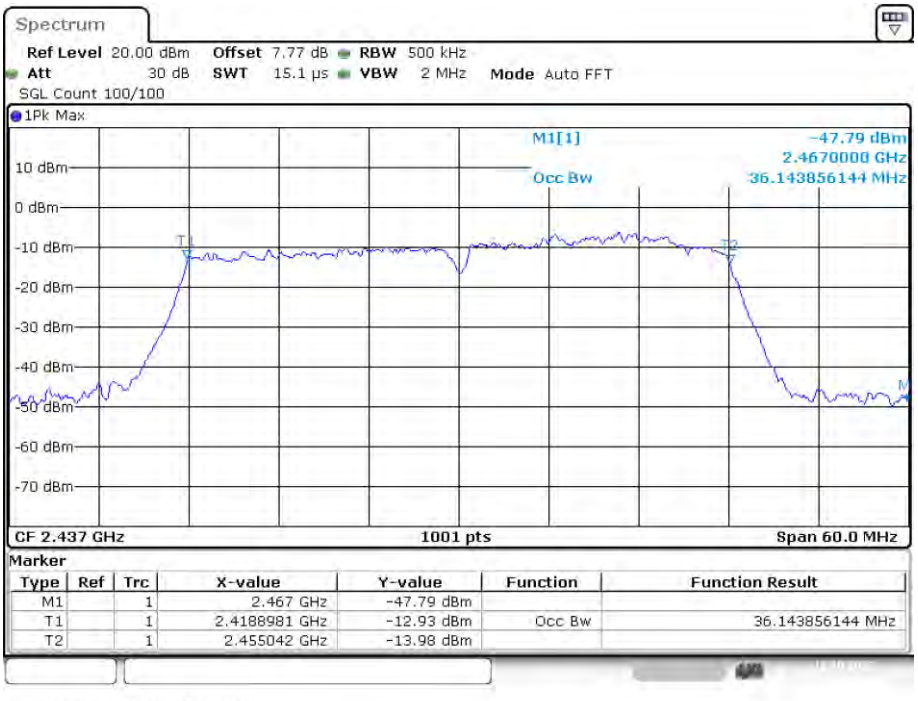
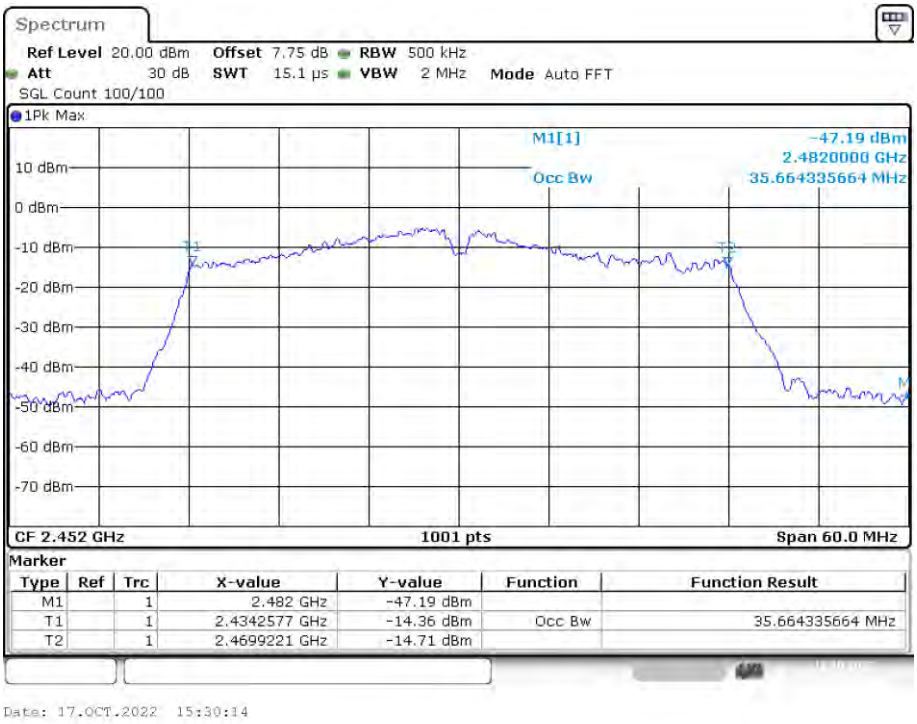
OBW NVNT n40 2422MHz Ant1



OBW NVNT n40 2437MHz Ant1



OBW NVNT n40 2452MHz Ant1



Note: Both antennas have been tested and only the worst data of antenna 1 is shown.

8. BAND EDGE CHECK

8.1. Test limits

Please refer RSS-GEN & FCC PART 15: 15.247

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits and RSS-GEN limits.

8.2. Test Procedure

Details see the KDB558074 D01 Meas Guidance v05r02

8.2.1 Put the EUT on a 1.5m high table, power on the EUT. Emissions were scanned and measured rotating the EUT to 360 degrees, Find the maximum Emission

8.2.2 Check the spurious emissions out of band.

8.2.3 RBW 1MHz, VBW 3MHz, peak detector for peak value, RBW 1MHz, VBW 10Hz, RMS detector for AV value.

8.3. Test Setup

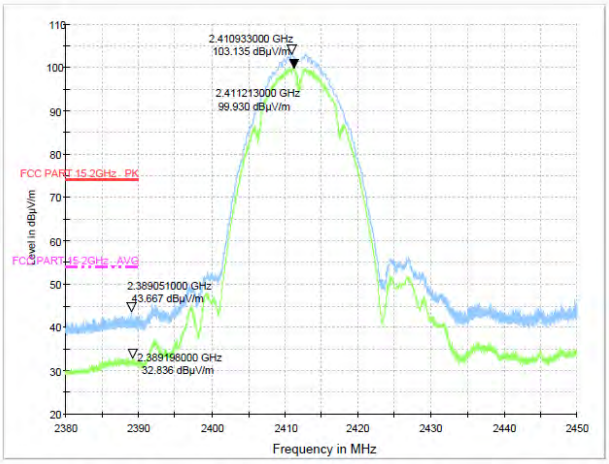
Same as 5.2.2.

8.4. Test Results

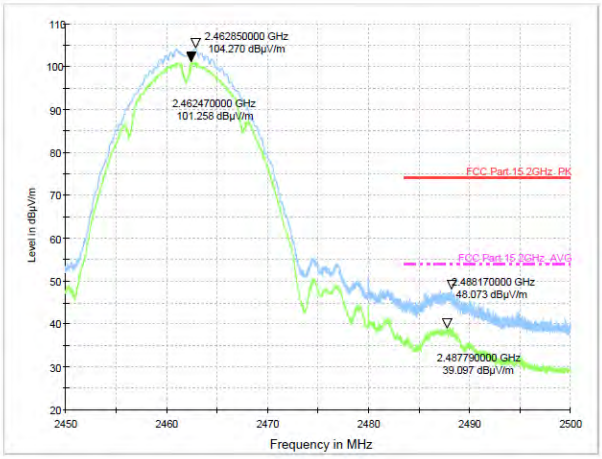
PASS.

Detailed information please see the following page.

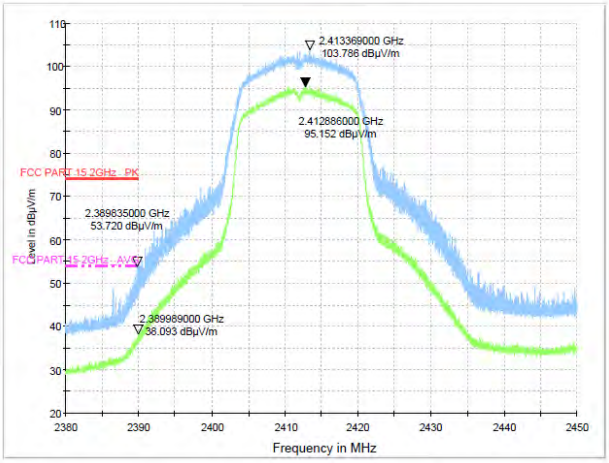
Test Mode: IEEE 802.11b-Low



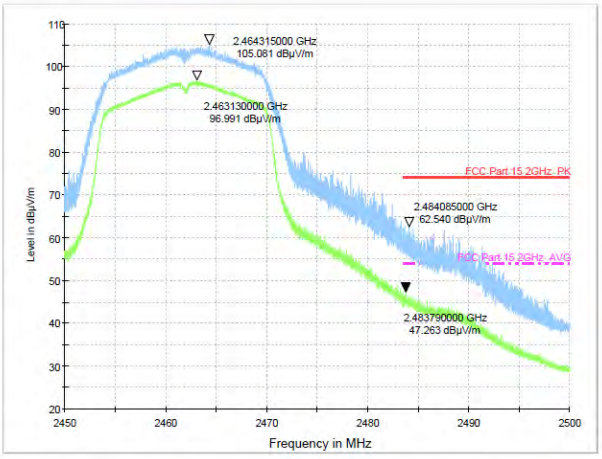
Test Mode: IEEE 802.11b-High



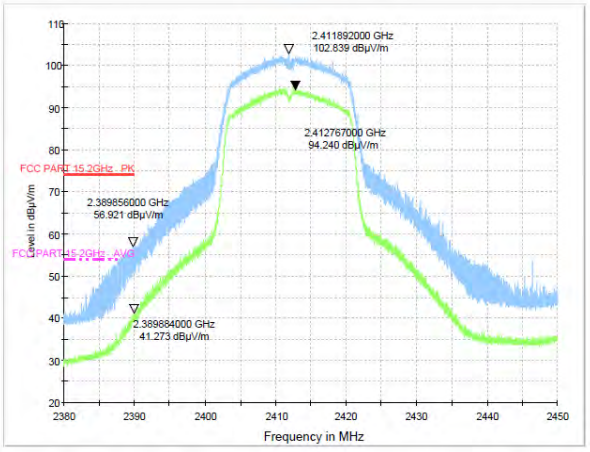
Test Mode: IEEE 802.11g-Low



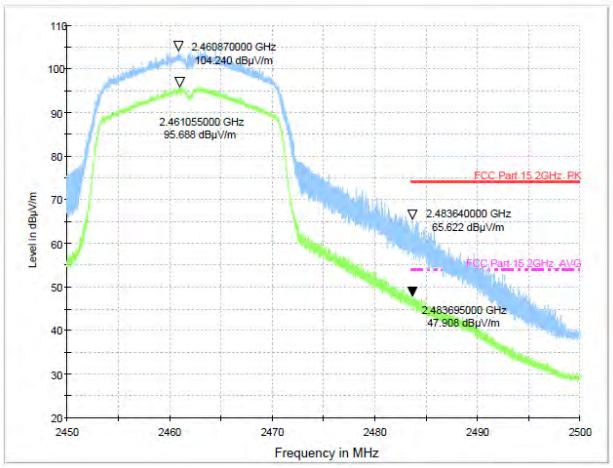
Test Mode: IEEE 802.11g-High



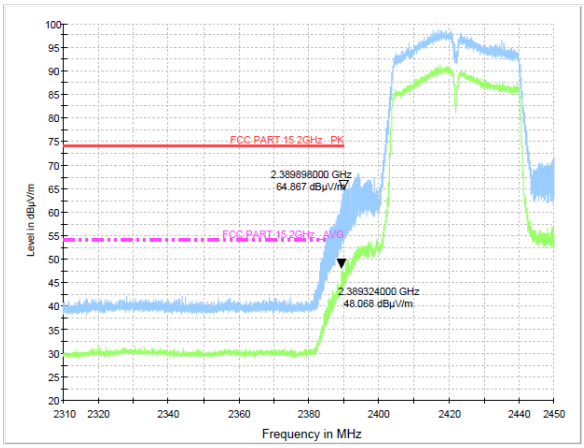
Test Mode: IEEE 802.11n20-Low



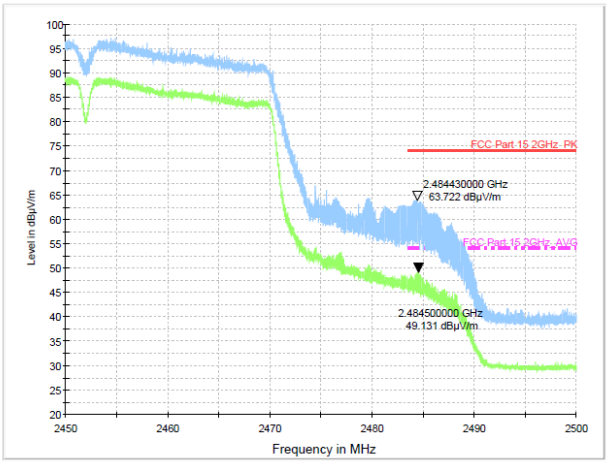
Test Mode: IEEE 802.11n20-High



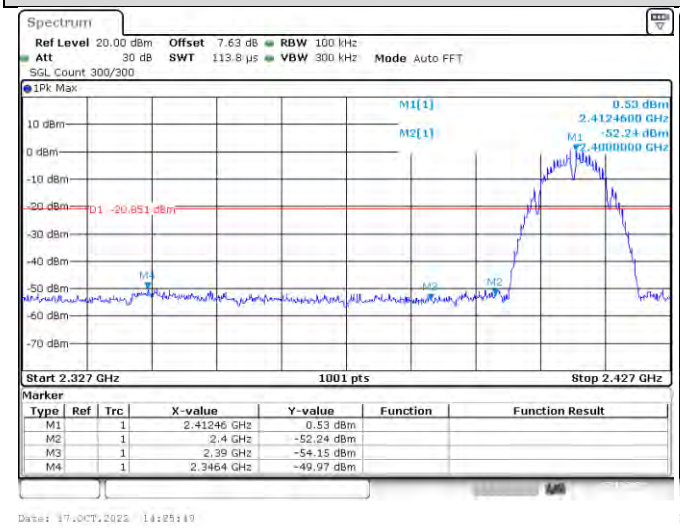
Test Mode: IEEE 802.11n40-Low



Test Mode: IEEE 802.11n40-High



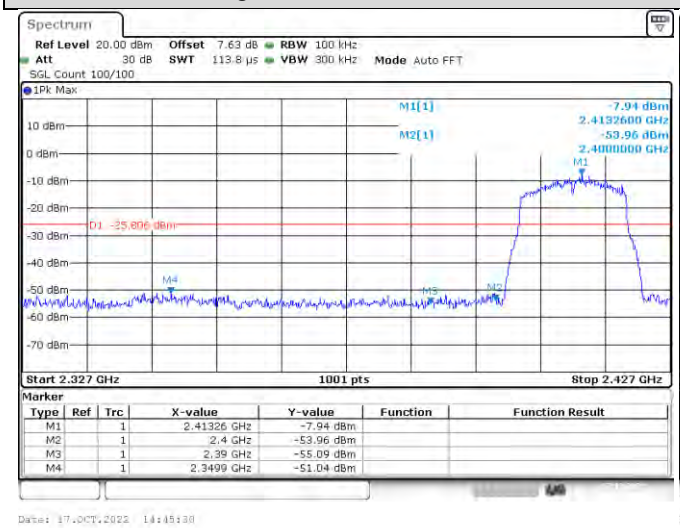
Test mode: 802.11b



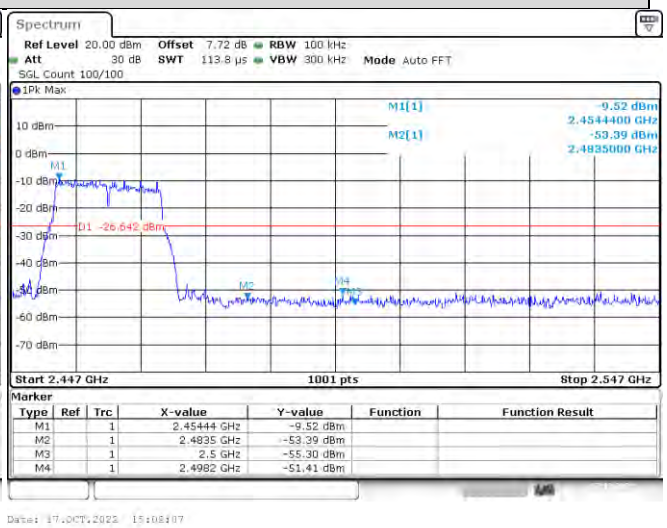
Lowest channel

Highest channel

Test mode: 802.11g

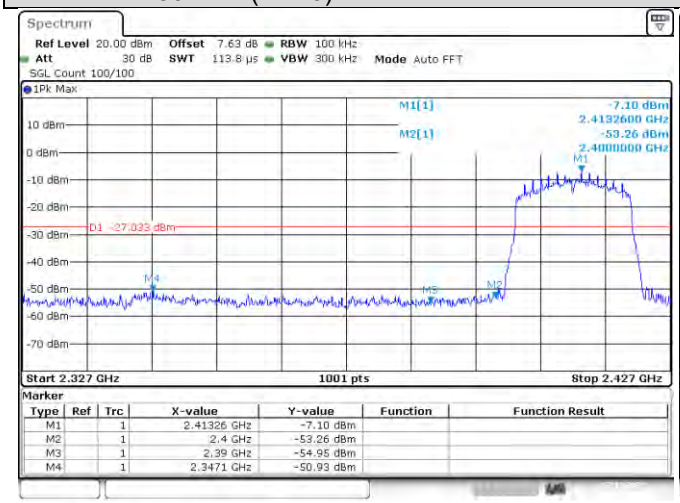


Lowest channel

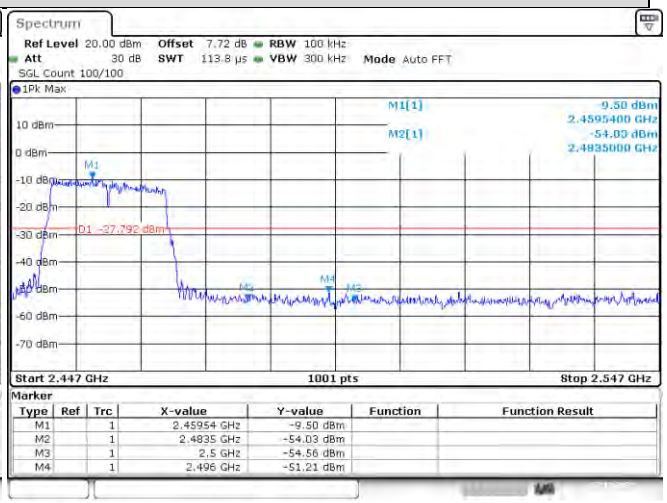


Highest channel

Test mode: 802.11n(HT20)

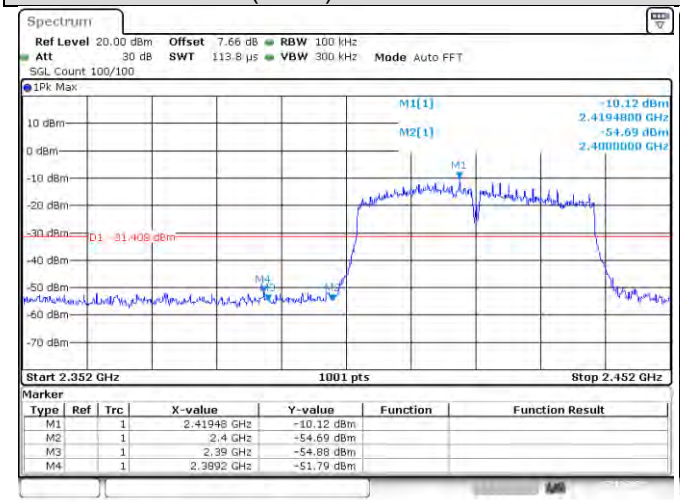


Lowest channel

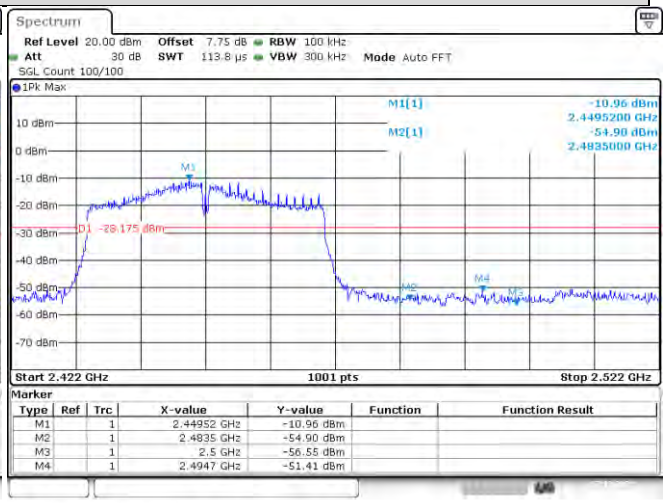


Highest channel

Test mode: 802.11n(HT40)



Lowest channel



Highest channel

Note: 1. Except for mode b/g, other modes test the MIMO status.
2. Only the worst data of each pattern is reflected.

9. ANTENNA REQUIREMENT

9.1. Standard Requirement

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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

9.2. Antenna Connected Construction

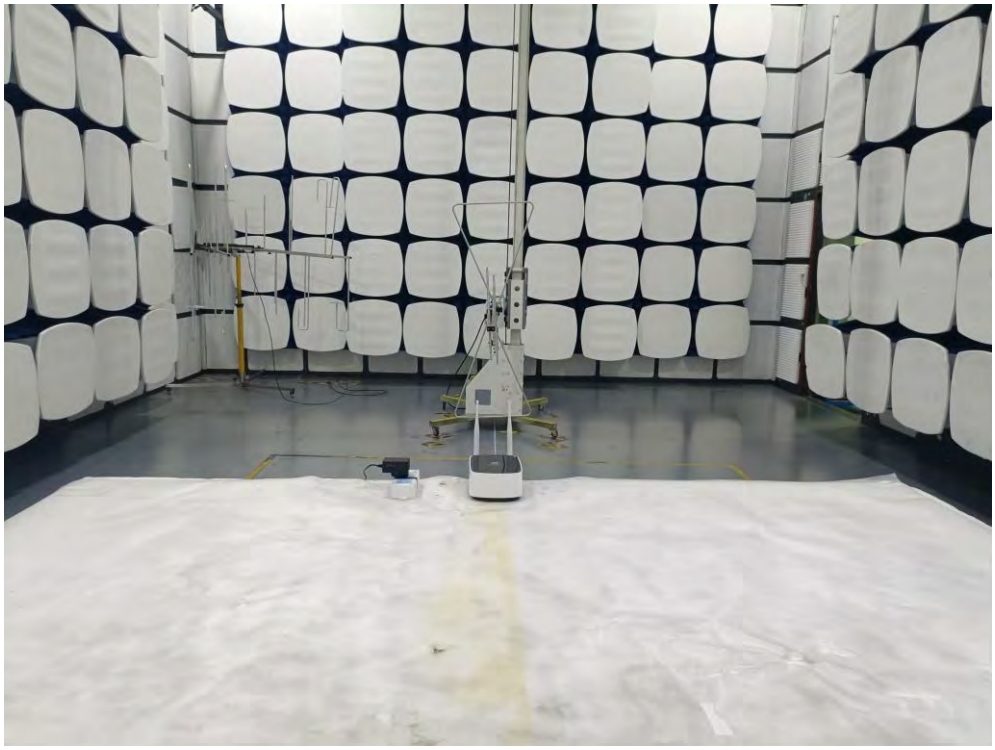
The antenna connector is unique antenna and no consideration of replacement. Please see EUT photo for details.

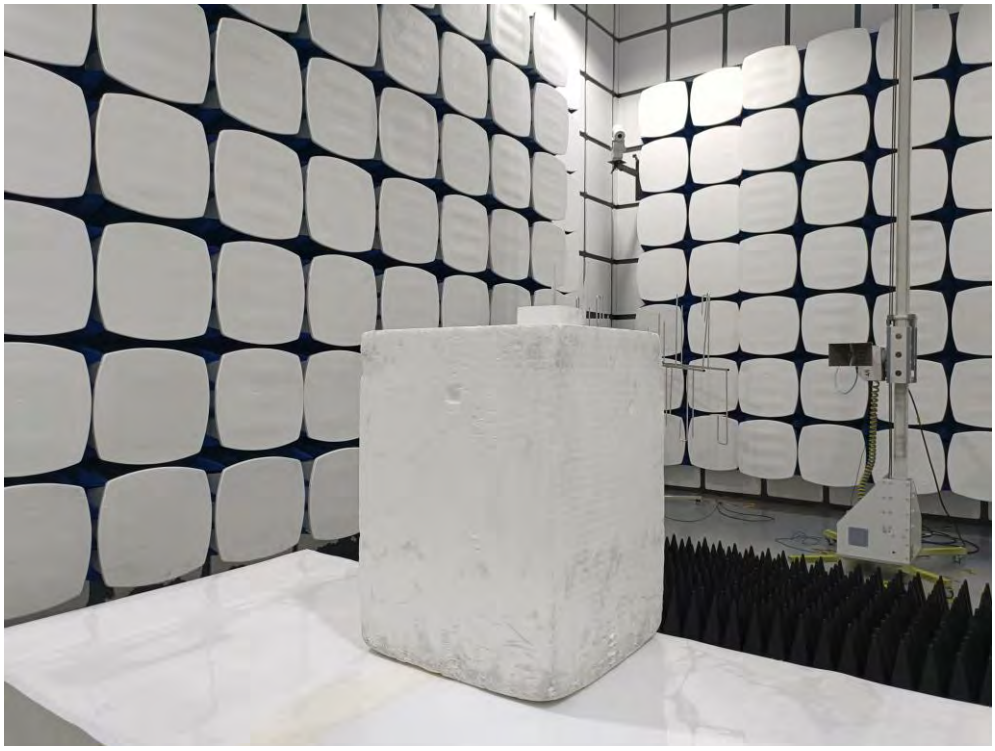
9.3. Results

The use of an antenna that is uniquely coupled to the intended radiator shall be considered sufficient to comply with the provisions of this section.

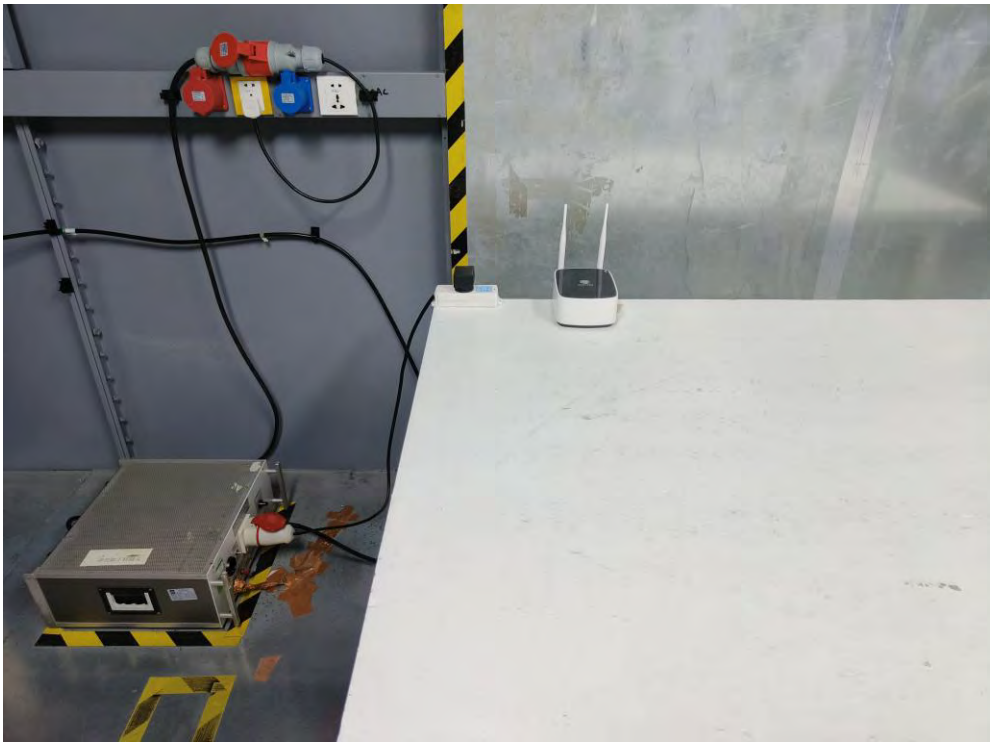
10. TEST SETUP PHOTO

10.1. **Photos of Radiated emission**





10.2.Photos of Conducted Emission test



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