

Test Report

Product: MLM2PRO

Trade Mark: Rapsodo

Model Number: MLM2.0P

FCC ID: 2AH3O-MLM2BP

Prepared for

Rapsodo Pte Ltd

Blk 20 Ayer Rajah Crescent, #08-05, Singapore 139964

Prepared by

Shenzhen HongBiao Certification& Testing Co., Ltd

Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China

Tel.: +86-755-2998 9321 Fax.: +86-755-2998 5110

Website: <http://www.sz-hongbiao.com>

Table of Contents

1	GENERAL DESCRIPTION	6
1.1	DESCRIPTION OF EUT	6
1.2	TEST MODE.....	6
1.3	OPERATION CHANNEL LIST	7
1.4	TEST SETUP	7
1.5	POWER SETTING CONFIGURATION PARAMETERS	8
1.6	ANCILLARY EQUIPMENT	8
2	SUMMARY OF TEST RESULT	9
3	TEST FACILITIES AND ACCREDITATIONS	10
3.1	TEST LABORATORY	10
3.2	ENVIRONMENTAL CONDITIONS	10
3.3	MEASUREMENT UNCERTAINTY	10
3.4	TEST SOFTWARE	11
4	LIST OF TEST EQUIPMENT	12
5	TEST ITEM AND RESULTS	14
5.1	ANTENNA REQUIREMENT	14
5.1.1	<i>Standard Requirement</i>	14
5.1.2	<i>Test Result</i>	14
5.2	CONDUCTED EMISSION	15
5.2.1	<i>Limits</i>	15
5.2.2	<i>Test Procedures</i>	15
5.2.3	<i>Test Setup</i>	16
5.2.4	<i>Test Result</i>	16
5.3	RADIATED EMISSION	19
5.3.1	<i>Limits</i>	19
5.3.2	<i>Test Procedures</i>	19
5.3.3	<i>Test Setup</i>	19
5.3.4	<i>Test Result</i>	20
5.3.5	<i>Radiated Band Edge</i>	26
5.4	PEAK OUTPUT POWER	30
5.4.1	<i>Limit</i>	30
5.4.2	<i>Test Procedure</i>	30
5.4.3	<i>Test Setup</i>	30
5.4.4	<i>Test Results</i>	30
5.5	POWER SPECTRAL DENSITY	32
5.5.1	<i>Limit</i>	32
5.5.2	<i>Test Procedure</i>	32
5.5.3	<i>Test Setup</i>	32
5.5.4	<i>Test Results</i>	32
5.6	6dB BANDWIDTH	41
5.6.1	<i>Limit</i>	41
5.6.2	<i>Test Procedure</i>	41
5.6.3	<i>Test Setup</i>	41
5.6.4	<i>Test Results</i>	41
5.7	DUTY CYCLE	50
5.7.1	<i>Limit</i>	50
5.7.2	<i>Test Procedure</i>	50

5.7.3	Test Setup.....	50
5.7.4	Test Results	51
5.8	CONDUCTED BAND EDGE	62
5.8.1	Limit	62
5.8.2	Test Procedure	62
5.8.3	Test Setup.....	62
5.8.4	Test Results	62
5.9	SPURIOUS RF CONDUCTED EMISSIONS	79
5.9.1	Limit	79
5.9.2	Measuring Instruments	79
5.9.3	Test Procedure	79
5.9.4	Test Setup.....	79
5.9.5	Test Results	79
6	PHOTOGRAPHS OF THE TEST SETUP.....	104
7	PHOTOGRAPHS OF THE EUT	106

TEST RESULT CERTIFICATION

Applicant's Name..... : Rapsodo Pte Ltd
Address : Blk 20 Ayer Rajah Crescent, #08-05, Singapore 139964
Manufacturer's Name : Rapsodo Pte Ltd
Address : Blk 20 Ayer Rajah Crescent, #08-05, Singapore 139964

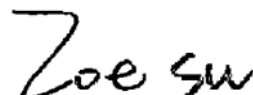
Product description

Product name : MLM2PRO
Model Number : MLM2.0P
Standards : FCC Part 15.247
IEEE/ANSI C63.10-2020
Test procedure : KDB 558074 D01 15.247 Meas Guidance v05r02
KDB 662911 D01 Multiple Transmitter Output v02r01

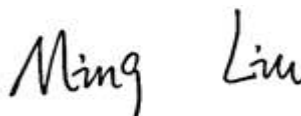
This device described above has been tested by Shenzhen HongBiao Certification& Testing Co., Ltd and the test results show that the equipment under test (EUT) is in compliance with the EMC requirements. And it is applicable only to the tested sample identified in the report.

Date of Test

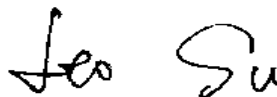
Date (s) of performance of tests: Dec. 29, 2025~Jan. 28, 2026
Test Result.....: **Pass**

Testing Engineer :

(Z o e S u)

Technical Manager :

(M i n g L i u)

Authorized Signatory :

(L e o S u)

Revision History

[illegible]

1 General Description

1.1 Description of EUT

Product name:	MLM2PRO
Model name:	MLM2.0P
Series Model:	N/A
Different of series model:	N/A
Operation frequency:	802.11b/g/n20: 2412-2462MHz 802.11n40: 2422-2452MHz
Modulation type:	IEEE 802.11b: DSSS (DBPSK, DQPSK, CCK) IEEE 802.11g/n (HT20/HT40): OFDM (64QAM, 16QAM, QPSK, BPSK)
Bit Rate of transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz) use 800 ns GI: 65.0/58.5/52.0/39.0/26.0/19.5/13.0/6.5 Mbps (MCS0~MCS7) 802.11n(40MHz) use 800 ns GI: 13.5/27/40.5/54/81/108/121.5/135Mbps
Antenna type:	ANT 1: FPC Antenna ANT 2: FPC Antenna
Antenna gain:	ANT 1: 5.7dBi ANT 2: 5.7dBi MINO: 8.71dBi
Max. output power:	16.99dBm
Hardware version:	H
Software version:	4.0.12
Battery:	battery: DC 7.4V, 3300mAh spare battery: DC 7.4V, 3500mAh
Power supply:	Input: DC 5V/3A
Adapter information:	N/A

Note: Two batteries (battery: DC 7.4V, 3300mAh, spare battery: DC 7.4V, 3500mAh) were tested and only showed poor battery: DC 7.4V, 3300mAh data.

1.2 Test Mode

Channel List for 802.11b/g/n(20)

Channel	Channel	Frequency (MHz)
Low	01	2412
Middle	06	2437
High	11	2462

Channel List for 802.11n(40)

Channel	Channel	Frequency (MHz)
Low	03	2422
Middle	06	2437
High	09	2452

1.3 Operation Channel list

Channel List for 802.11b/g/n(20)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	\	\

Channel List for 802.11n(40)

Channel	Frequency (MHz)	Channel	Frequency (MHz)
03	2422	07	2442
04	2427	08	2447
05	2432	09	2452
06	2437	\	\

1.4 Test Setup

See photographs of the test setup in the report for the actual setup and connections between EUT and support equipment.

1.5 Power setting configuration parameters

During testing channel & power controlling software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product power parameters.

Test software Version			Tera Term VT	
Mode	802.11b	802.11g	802.11n20	802.11n40
Parameters	default	default	default	default
RF cable				
Description	Connector		Length	Supplied by
Antenna Cable	SMA		10cm	Applicant

Note: Disclaimer: the loss of RF cable is too small and can be ignored. Fixed-frequency software: Tera Term.

1.6 Ancillary Equipment

Equipment	Model	S/N	Manufacturer
Notebook	BDR-WDH	A3RQPM242 0004454	Honor Terminal Co., Ltd.
Adapter	CD289	35810	Ugreen Group Limited

Note: The notebook is used to assist the RF test. In order to prevent the notebook from causing unnecessary impact on the test, the notebook will be removed from the test environment after the EUT successfully transmits at a fixed frequency using the notebook.

2 Summary of Test Result

No.	Standard Section	Test Item	Result	Remark
1	15.203 15.247(b)(4)	Antenna Requirement	Pass	
2	15.247 (b)	Peak Output Power	Pass	
3	15.207	Conducted Emission	Pass	
4	15.247 (d) & 15.209	Radiated Spurious Emission	Pass	
5	15.247 (e)	Power Spectral Density	Pass	
6	15.247 (a)(2)	6dB Bandwidth	Pass	
7	/	Duty Cycle	Pass	
8	15.205	Band Edge Emission	Pass	
9	15.247(d)	Spurious RF Conducted Emissions	Pass	

3 Test Facilities and Accreditations

3.1 Test Laboratory

Test Site	Shenzhen HongBiao Certification& Testing Co., Ltd
Test Site Location	Room 102, 201, Building 2, Yuanwanggu RFID Industrial Park, Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen, China
Telephone:	(86-755) 2998 9321
Fax:	(86-755) 2998 5110
FCC Registration No.:	CN1341
A2LA Certificate No.:	6765.01

3.2 Environmental Conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15°C~35°C
Relative Humidity:	20%~75%
Air Pressure:	98kPa~101kPa

3.3 Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, 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 %.

The data and results quoted in this document are true and accurate values, and uncertainties are not involved in the calculations.

In addition, components and mass production processes that are similar to testing equipment may introduce additional deviations, and the manufacturer is solely responsible for the continued compliance of the equipment.

Measurement Frequency Range	U, (dB)	Note
RF frequency	2×10^{-5}	
RF power, conducted	± 0.57 dB	
PSD, conducted	± 1 dB	
Conducted emission(150kHz~30MHz)	± 2.5 dB	
Radiated emission(9kHz-30MHz)	± 2.5 dB	
Radiated emission(30MHz~1GHz)	± 4.2 dB	
Radiated emission (above 1GHz)	± 4.7 dB	
Occupied Bandwidth	$\pm 3\%$	
Temperature	± 1 degree	

Humidity	± 5 %	
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3.4 Test Software

Software name	Manufacturer	Model	Version
Conducted Emission test Software	Farad	EZ-EMC	EMC-CON 3A1.1+
Radiated Emission test Software	Farad	EZ-EMC	FA-03A2
RF Test System	MWRF	MTS 8310	2.0.0.0

4 List of Test Equipment

Radiation emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E001	Horn Antenna	Schwarzbeck	BBHA 9120D	02592	2024-05-18	2026-05-17
2	HB-E002	Biconical log-periodic composite antenna	Schwarzbeck	VULB 9168	01340	2024-05-18	2026-05-17
3	HB-E003	SHF-EHF Horn	Schwarzbeck	BBHA 9170	01193	2024-05-18	2026-05-17
4	HB-E005	Preamplifier	Noyetec	LAN-0118	NYCM1420102	2025-05-07	2026-05-06
5	HB-E006	Preamplifier	Noyetec	LAN-1840	NYCM1420103	2025-05-07	2026-05-06
6	HB-E007	EMI TEST RECEIVER	R&S	ESR7	102520	2025-05-07	2026-05-06
7	HB-E009	POSITINAL COTROLLE R	Noyetec	N/A	N/A	/	/
8	HB-E013	RF switch	Noyetec	NY-RF4	NY0CM1420204	/	/
9	HB-E066	Illuminance Tester	TASI	TA8121	N/A	2025-05-13	2026-05-12
10	HB-E075	Active loop antenna	Schwarzbeck	FMZB 1519B	1519B-245	2024-05-18	2026-05-17
11	HB-E076	Preamplifier	Hewlett Packard	8447D	1937A02278	2025-05-07	2026-05-06
Conduction emission							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E014	4 Path V-LISN	Schwarzbeck	NNLK 8121	00770	2025-05-07	2026-05-06
2	HB-E015	Pulse Limiter	Schwarzbeck	VTSD 9561-F	00949	2025-05-07	2026-05-06
3	HB-E016	ZN23201	Noyetec	ZN23201	N/A	2025-05-10	2026-05-09
4	HB-E059	Attenuator	Xianghua	TS2-6-1	220215166	2025-05-10	2026-05-09
5	HB-E069	EMI TEST RECEIVER	R&S	ESCI	N/A	2025-05-07	2026-05-06
RF							
Item	Equipment No.	Equipment name	Manufacturer	Model	Serial No.	Calibration date	Due date
1	HB-E041	MXG AnaioG Signal Generator	Agilent	N5181A	MY47070421	2025-05-07	2026-05-06

2	HB-E042	WIDEBAND RADIO COMMUNICA TION TESTER	R&S	CMW500	132108	2025-05-08	2026-05-07
3	HB-E043	MXG Anaio Signal Generator	Agilent	N5182A	US46240335	2025-05-08	2026-05-07
4	HB-E044	Signal& spectrum Analyzer	R&S	FSV3044	101264	2025-05-07	2026-05-06
5	HB-E045	RF Control Box	Noyetec	NY100-R FCB	N/A	2025-05-08	2026-05-07
6	HB-E058	Thermometer Clock Humidity Monitor	N/A	HTC-1S	N/A	2025-05-09	2026-05-08

Note: the calibration interval of the above test instruments is 12&24 months and the calibrations are traceable to international system unit (SI).

5 Test Item And Results

5.1 Antenna Requirement

5.1.1 Standard 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

5.1.2 Test Result

The EUT antenna is FPC Antenna. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used.

5.2 Conducted Emission

5.2.1 Limits

Limits – Class B		
Frequency (MHz)	Limit (dBμV)	
	Quasi-Peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50
Note: 1. the tighter limit applies at the band edges. 2. the limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.		

5.2.2 Test Procedures

a) EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

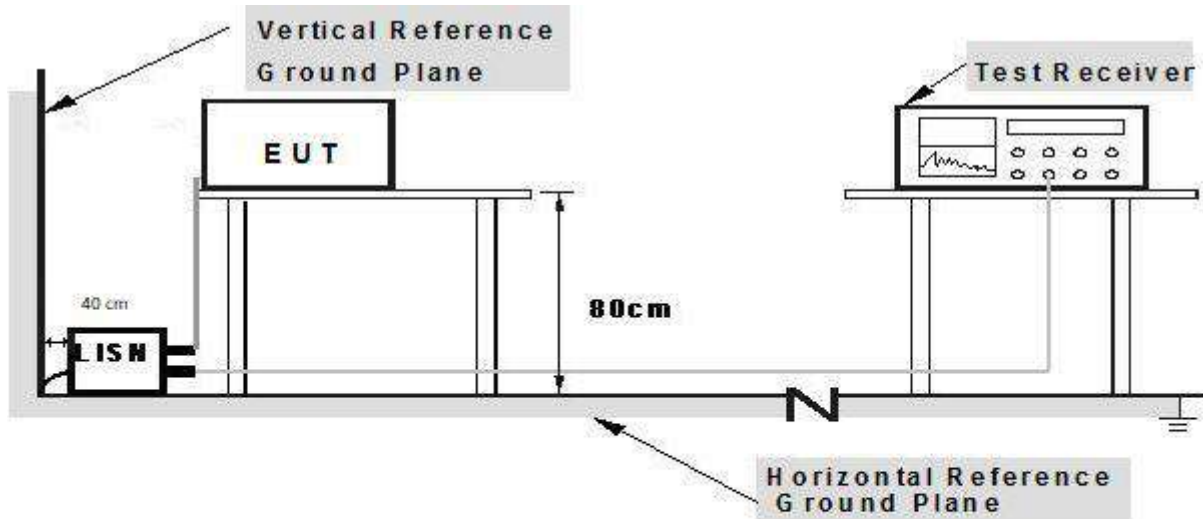
b) The following table is the setting of the receiver

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

- c) The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- d) 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 40 cm long.
- e) 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.
- f) LISN is at least 80 cm from nearest part of EUT chassis.

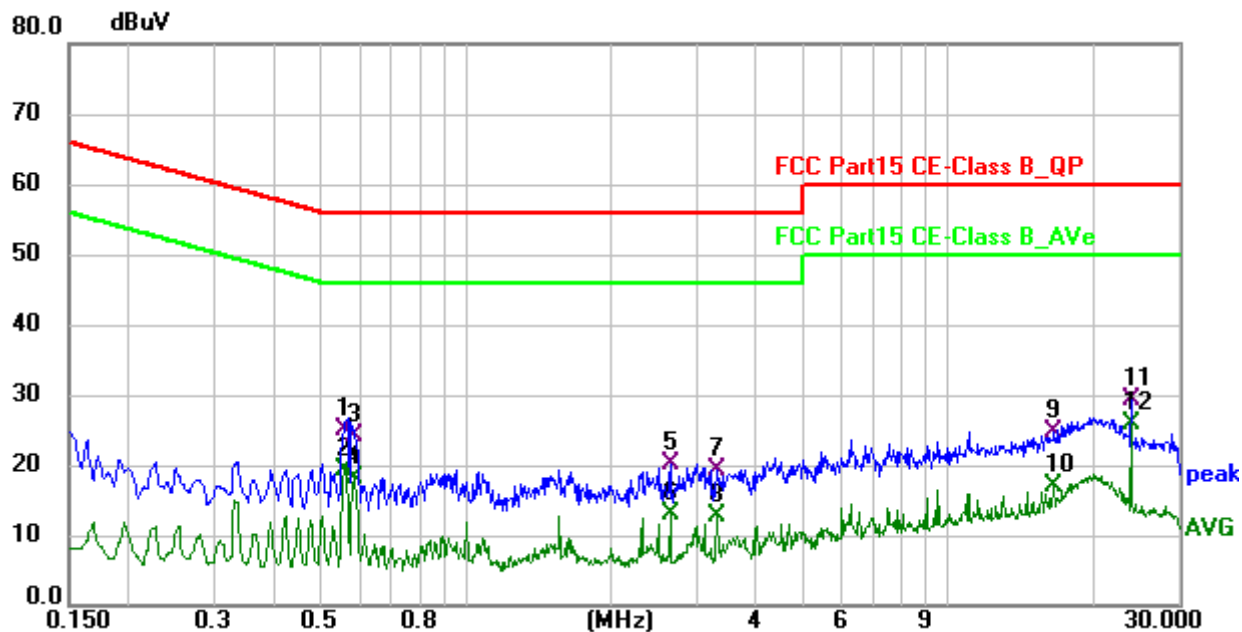
- g) For the actual test configuration, please refer to the related Item – photographs of the test setup.

5.2.3 Test Setup



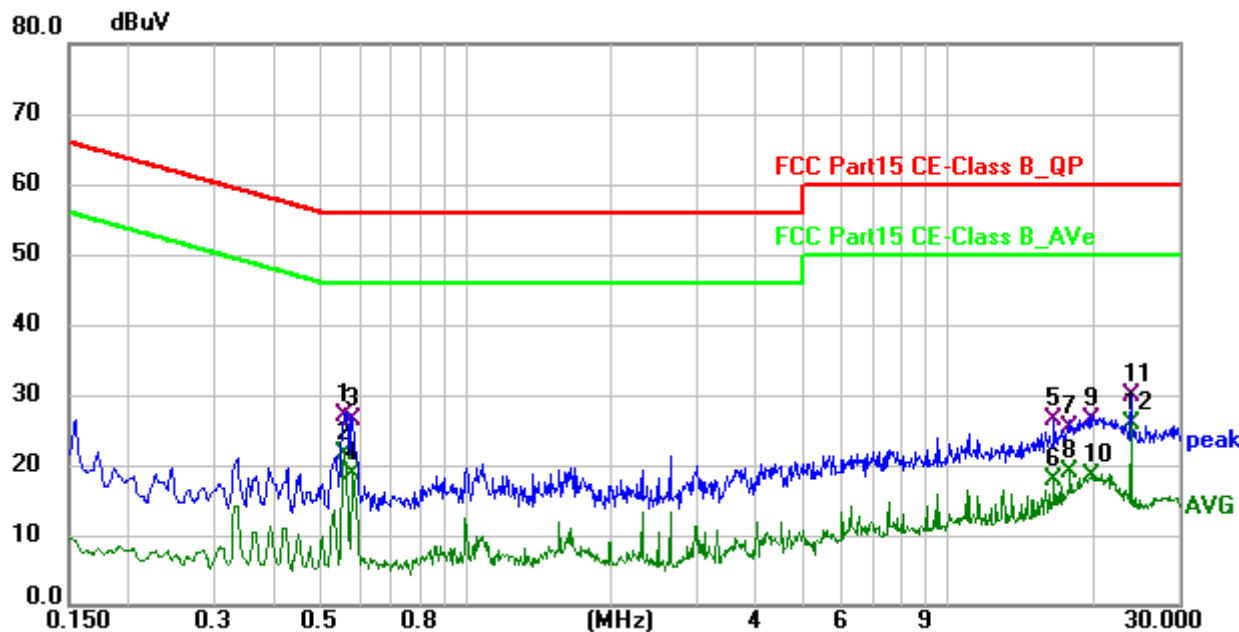
5.2.4 Test Result

EUT:	MLM2PRO	Model Name:	MLM2.0P
Test Mode:	Charging + TX (802.11b, 2412, ANT1)	Phase:	L
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.559	14.86	10.11	24.97	56.00	-31.03	QP
2	0.559	9.24	10.11	19.35	46.00	-26.65	AVG
3	0.587	13.99	10.11	24.10	56.00	-31.90	QP
4	0.587	8.14	10.11	18.25	46.00	-27.75	AVG
5	2.656	9.59	10.54	20.13	56.00	-35.87	QP
6	2.656	2.52	10.54	13.06	46.00	-32.94	AVG
7	3.318	8.42	10.73	19.15	56.00	-36.85	QP
8	3.318	1.97	10.73	12.70	46.00	-33.30	AVG
9	16.593	10.50	14.28	24.78	60.00	-35.22	QP
10	16.593	2.62	14.28	16.90	50.00	-33.10	AVG
11	24.000	14.12	15.20	29.32	60.00	-30.68	QP
12 *	24.000	10.65	15.20	25.85	50.00	-24.15	AVG

EUT:	MLM2PRO	Model Name:	MLM2.0P
Test Mode:	Charging + TX (802.11b, 2412, ANT1)	Phase:	N
Test Voltage:	DC 5V from adapter AC 120V/60Hz		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.559	16.80	10.12	26.92	56.00	-29.08	QP
2	0.559	11.38	10.12	21.50	46.00	-24.50	AVG
3	0.582	16.33	10.12	26.45	56.00	-29.55	QP
4	0.582	8.72	10.12	18.84	46.00	-27.16	AVG
5	16.593	12.01	14.29	26.30	60.00	-33.70	QP
6	16.593	3.69	14.29	17.98	50.00	-32.02	AVG
7	17.921	10.76	14.42	25.18	60.00	-34.82	QP
8	17.921	4.64	14.42	19.06	50.00	-30.94	AVG
9	19.752	11.94	14.60	26.54	60.00	-33.46	QP
10	19.752	3.78	14.60	18.38	50.00	-31.62	AVG
11	24.000	14.59	15.21	29.80	60.00	-30.20	QP
12 *	24.000	10.78	15.21	25.99	50.00	-24.01	AVG

5.3 Radiated Emission

5.3.1 Limits

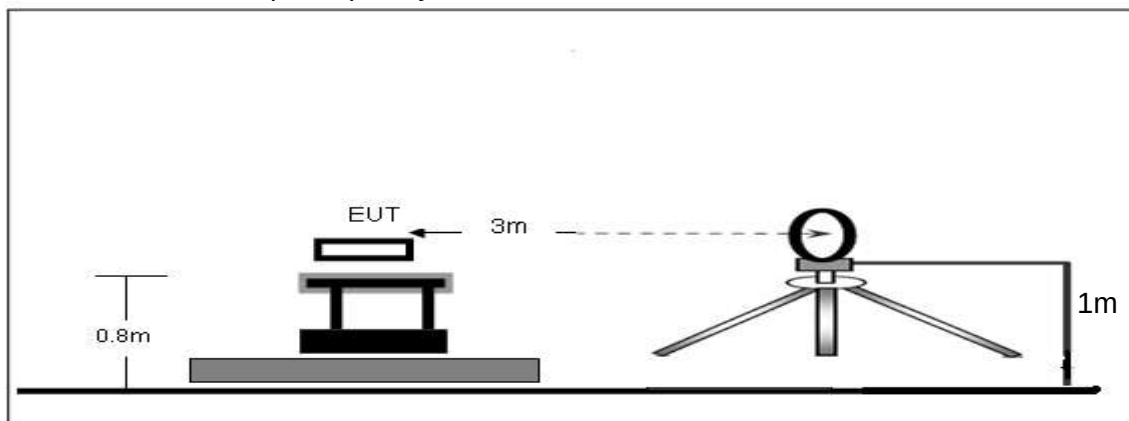
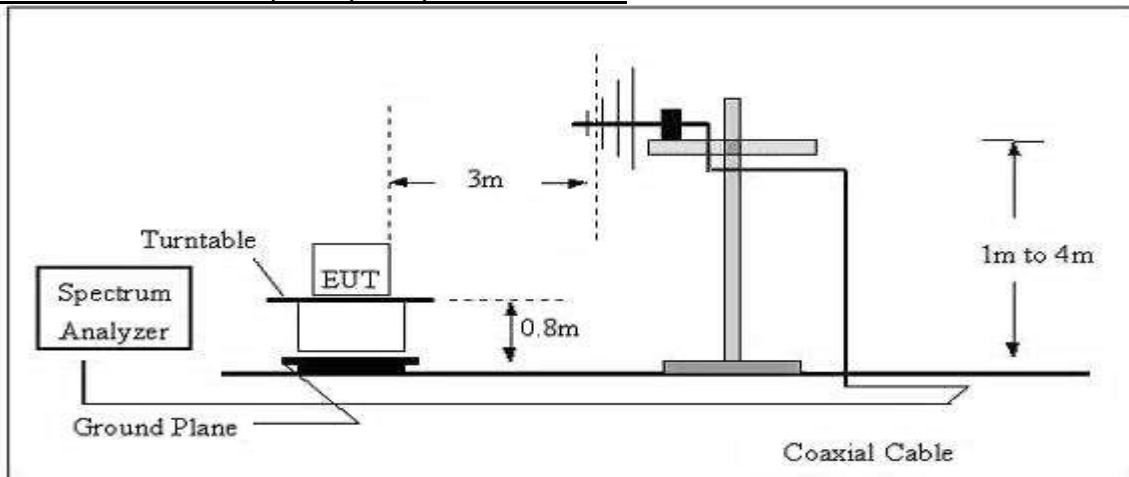
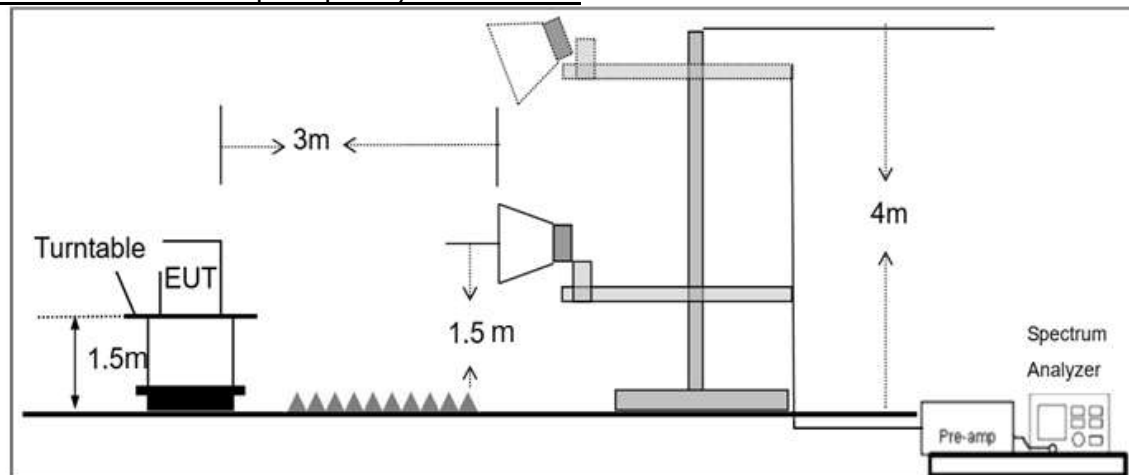
Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

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

5.3.2 Test Procedures

- The radiated emission tests were performed in the 3 meters.
- The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- The height of the test antenna shall vary between 1m to 4m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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.
- If the peak mode measured value compliance with and lower than average mode limit, the EUT shall be deemed to meet average limits and then no additional average mode measurement performed.
- For the actual test configuration, please refer to the related item – EUT test photos.

5.3.3 Test Setup

Radiated Emission Test-Up Frequency Below 30MHzRadiated Emission Test-Up Frequency 30MHz~1GHzRadiated emission test-up frequency above 1GHz**5.3.4 Test Result**

Below 30MHz

EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1010 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	TX	Polarization:	--

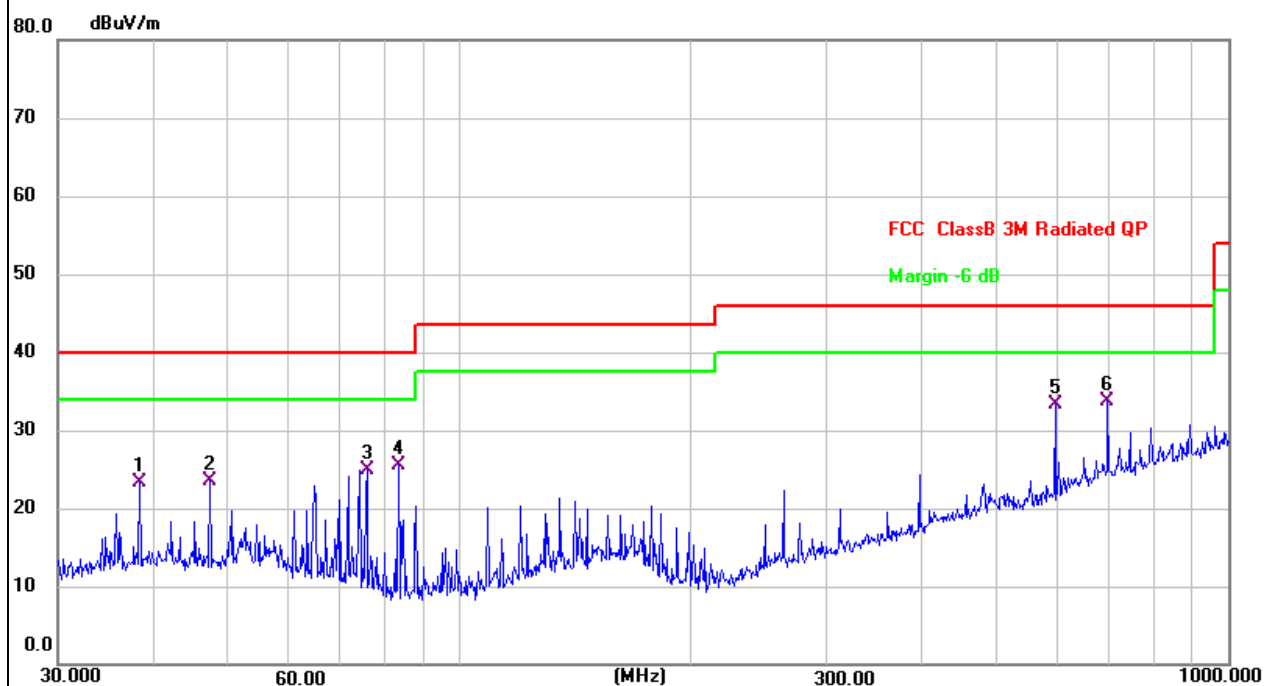
Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	Pass
--	--	--	--	Pass

Note:

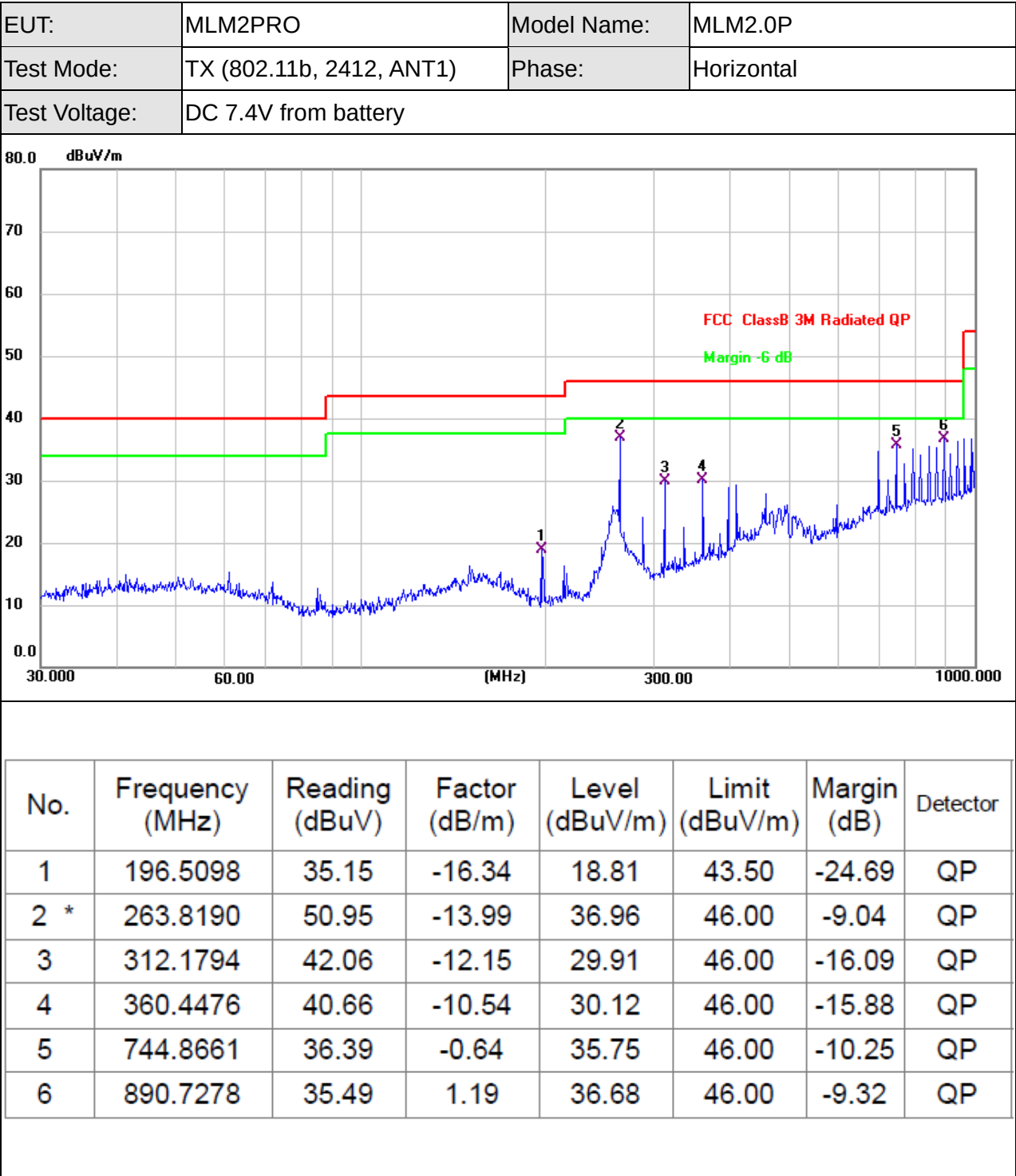
1. Distance extrapolation factor = $40 \log (\text{specific distance}/\text{test distance})$ (dB);
2. Limit line = specific limits (dBuV) + distance extrapolation factor.

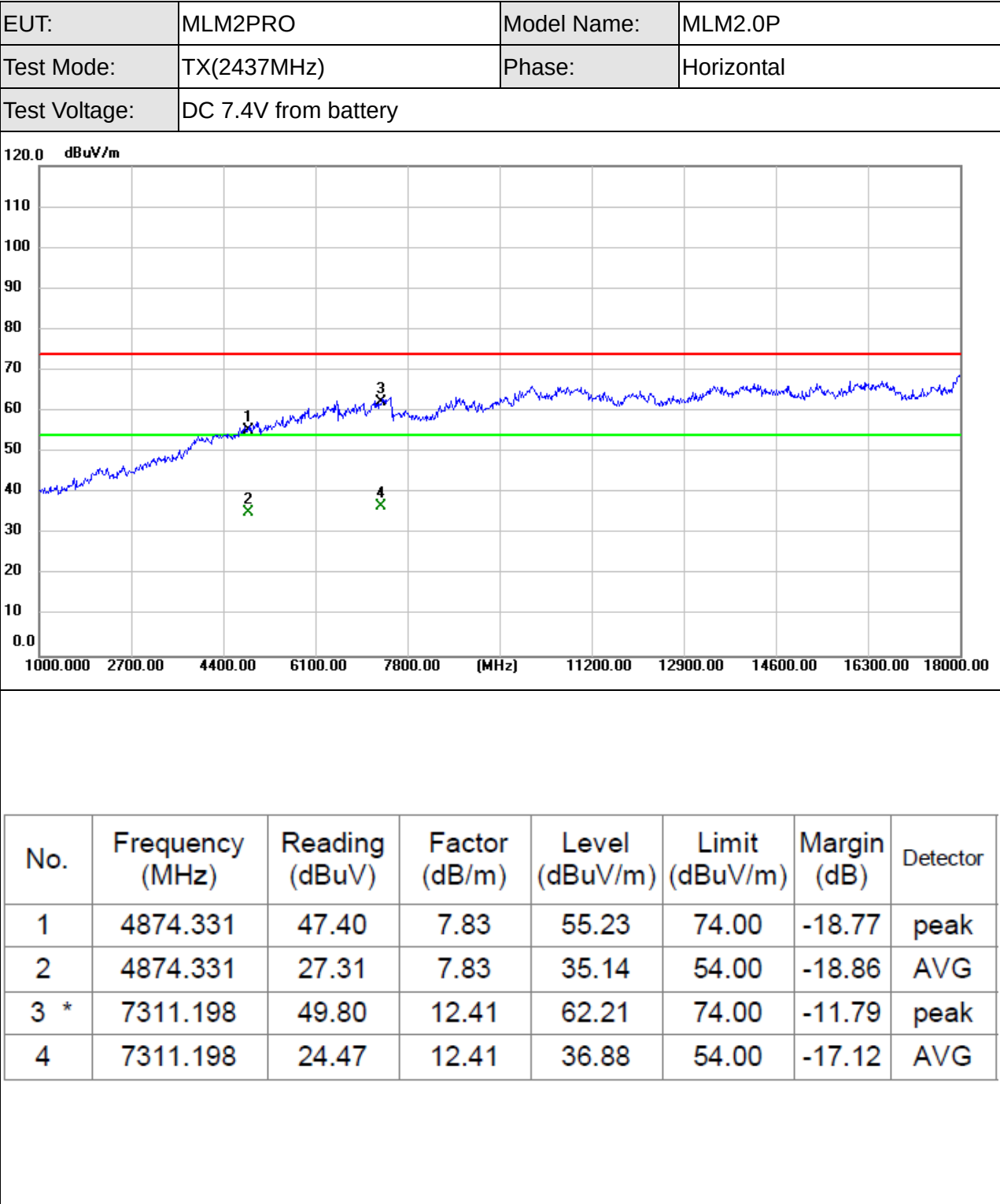
Frequency range (30MHz – 1GHz)

EUT:	MLM2PRO	Model Name:	MLM2.0P
Test Mode:	TX (802.11b, 2412, ANT1)	Phase:	Vertical
Test Voltage:	DC 7.4V from battery		

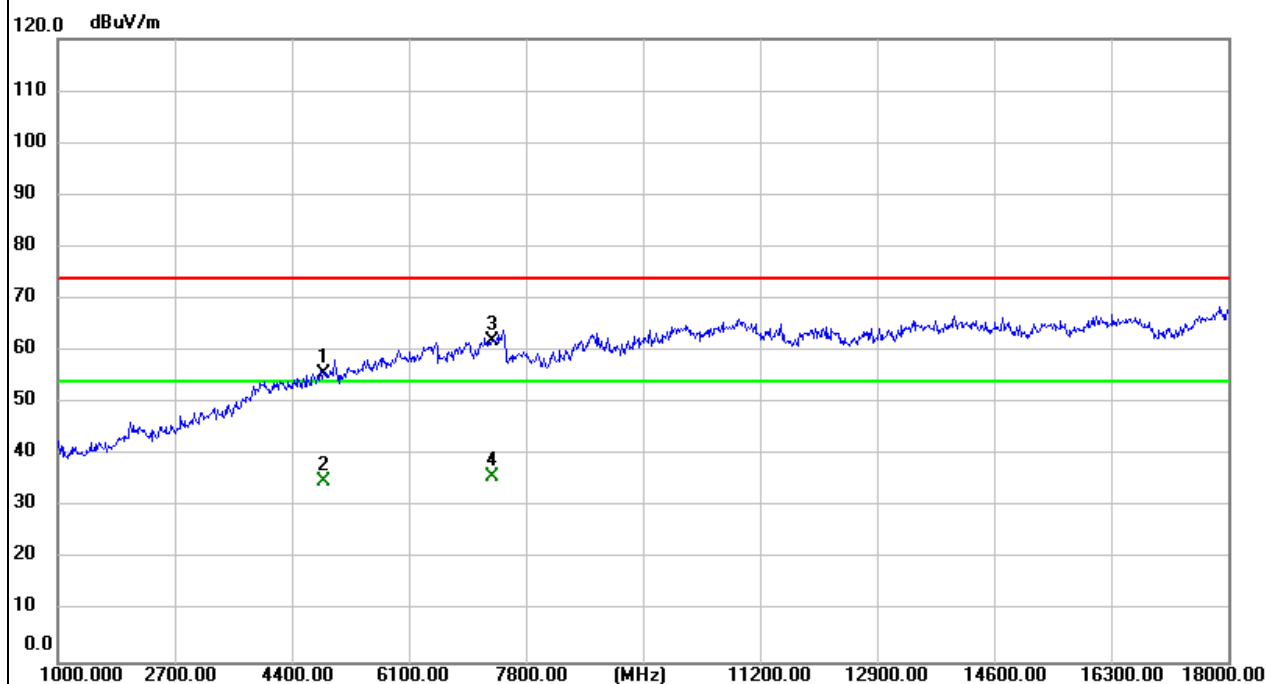


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	38.3462	37.28	-14.07	23.21	40.00	-16.79	QP
2	47.3255	37.50	-13.98	23.52	40.00	-16.48	QP
3	75.7114	41.92	-16.92	25.00	40.00	-15.00	QP
4	83.2298	43.74	-18.26	25.48	40.00	-14.52	QP
5	595.1329	37.96	-4.62	33.34	46.00	-12.66	QP
6 *	696.8567	35.47	-1.77	33.70	46.00	-12.30	QP





EUT:	MLM2PRO	Model Name:	MLM2.0P
Test Mode:	TX(2437MHz)	Phase:	Vertical
Test Voltage:	DC 7.4V from battery		

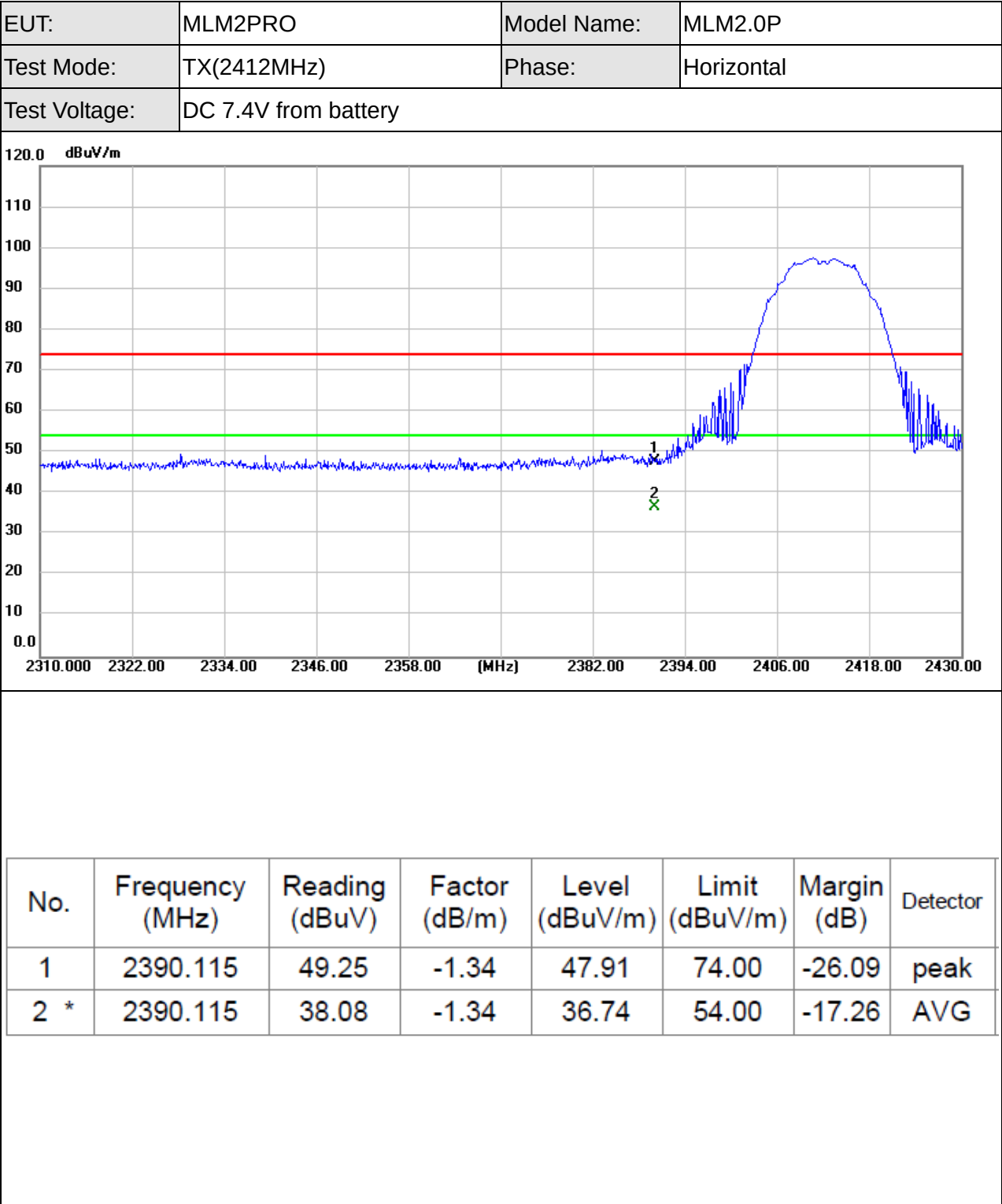


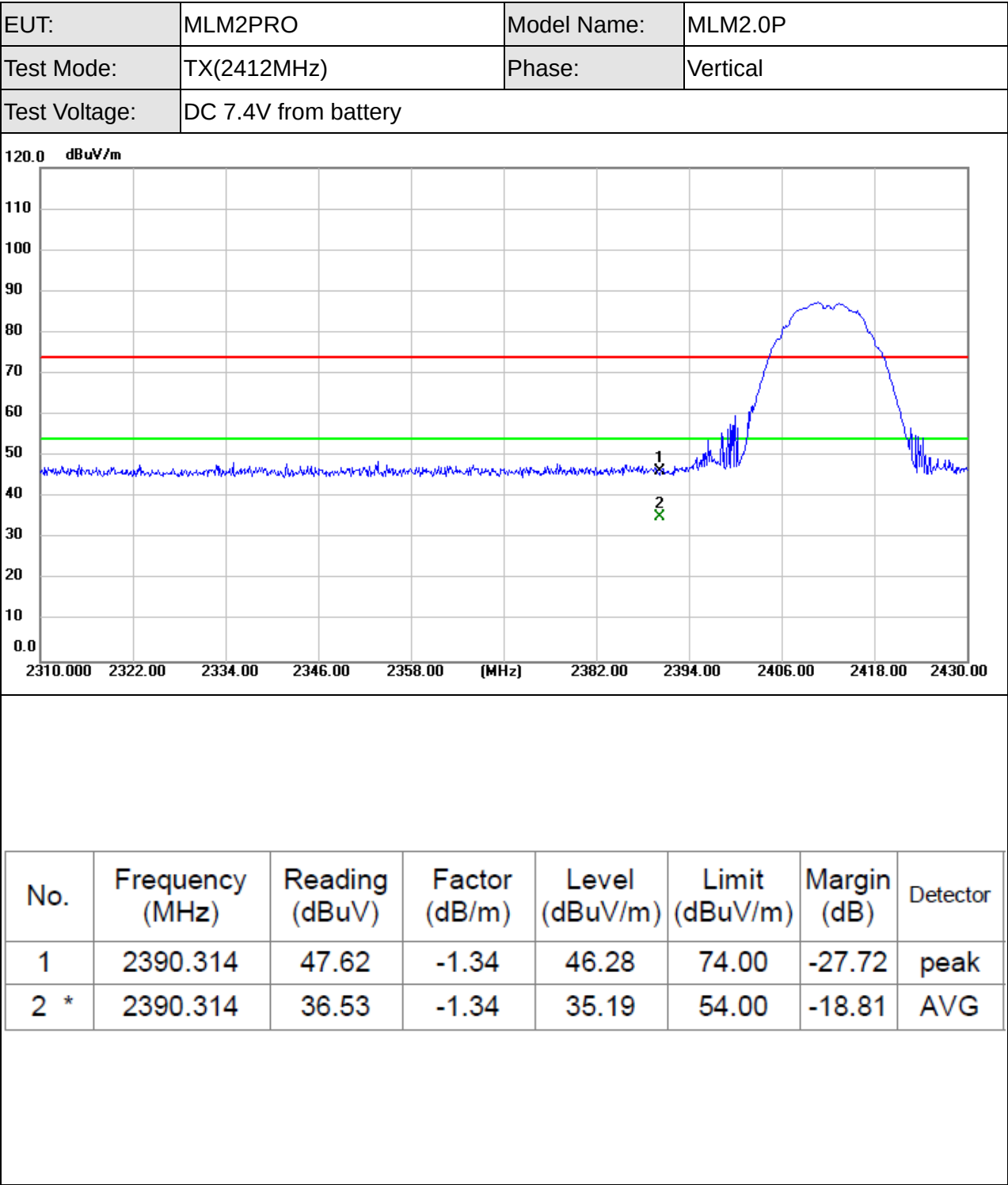
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	4874.228	47.90	7.83	55.73	74.00	-18.27	peak
2	4874.228	27.14	7.83	34.97	54.00	-19.03	AVG
3 *	7311.315	49.43	12.41	61.84	74.00	-12.16	peak
4	7311.315	23.41	12.41	35.82	54.00	-18.18	AVG

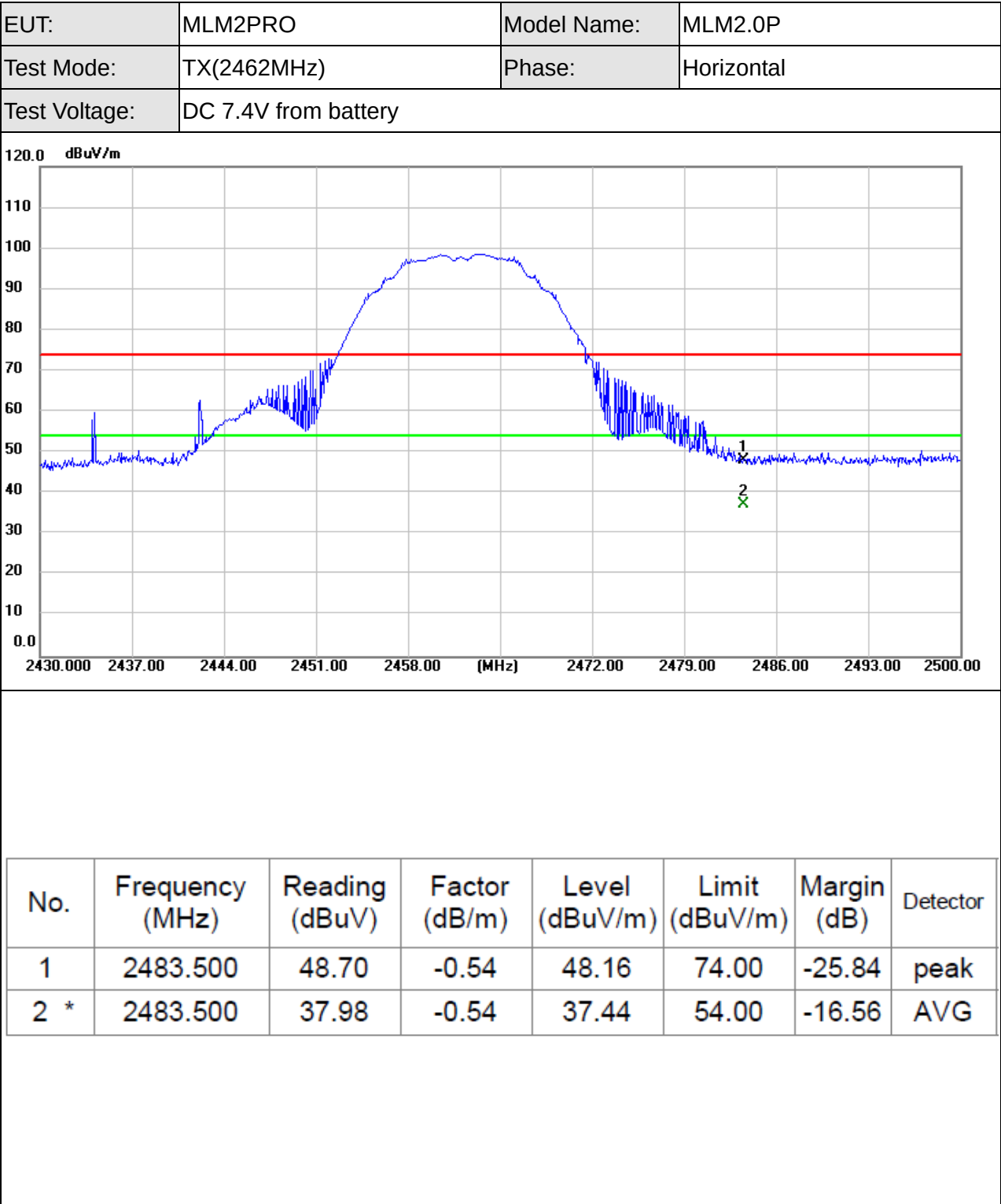
Note:

- (1) All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
- (2) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
- (3) All other emissions more than 20dB below the limit.
- (4) All modes have been tested, and only the worst mode 802.11b mode in the report.
- (5) For 18G-26G, the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

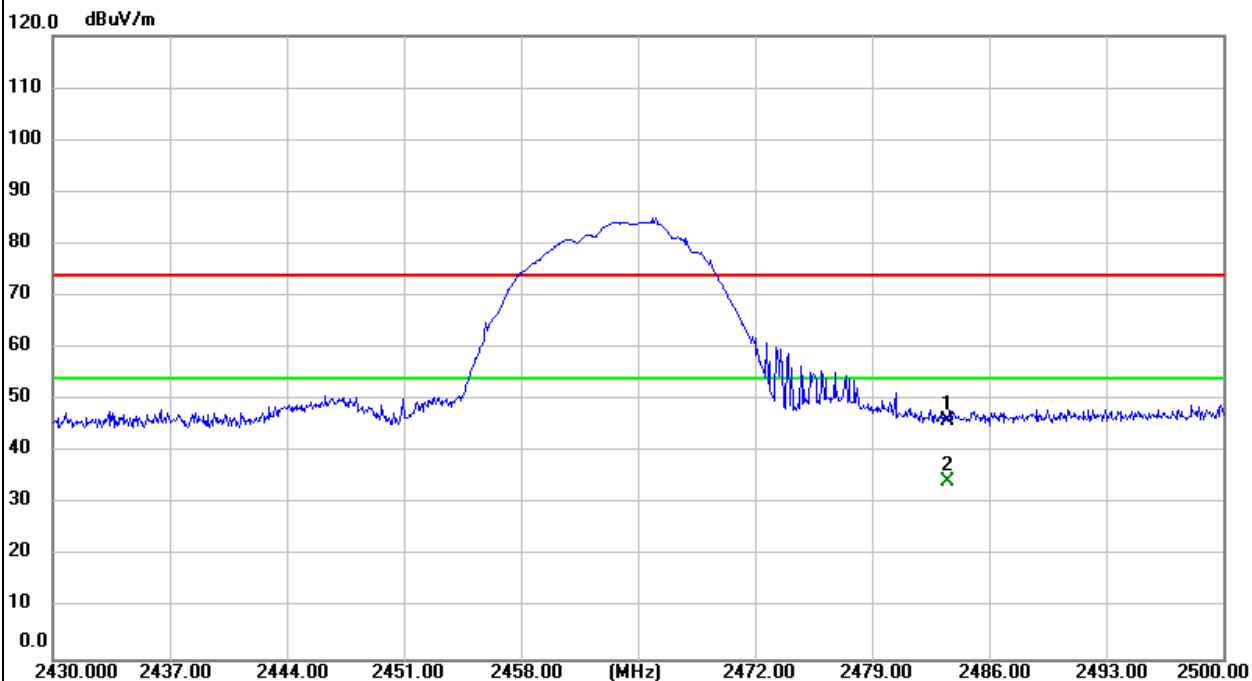
5.3.5 Radiated Band Edge







EUT:	MLM2PRO	Model Name:	MLM2.0P
Test Mode:	TX(2462MHz)	Phase:	Vertical
Test Voltage:	DC 7.4V from battery		



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	2483.500	46.61	-0.54	46.07	74.00	-27.93	peak
2 *	2483.500	34.93	-0.54	34.39	54.00	-19.61	AVG

Note:

1. All Readings are Peak Value (VBW=3MHz) and AV Value (VBW=10Hz).
2. Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor.
3. All modes have been tested, and only the worst mode 802.11b mode in the report.

5.4 Peak Output Power

5.4.1 Limit

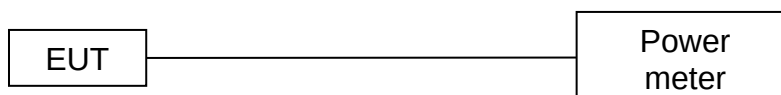
FCC Part15 Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(b)(3)	Peak output power	1 watt or 30dBm	2400-2483.5

5.4.2 Test Procedure

1. PKPM1 Peak power meter measurement

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

5.4.3 Test Setup



5.4.4 Test Results

EUT:	MLM2PRO	Model Name:	MLM2.0P
Test Mode:	TX Mode	Test Voltage:	DC 7.4V from battery

802.11b

Test Channel	Frequency (MHz)	ANT1 Maximum Peak Conducted Output Power(dBm)	ANT2 Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	16.51	16.03	30
CH06	2437	16.14	16.5	30
CH11	2462	16.19	16.41	30

802.11g

Test Channel	Frequency (MHz)	ANT1 Maximum Peak Conducted Output Power(dBm)	ANT2 Maximum Peak Conducted Output Power(dBm)	Limit (dBm)
CH01	2412	16.36	16.23	30
CH06	2437	16.16	16.99	30
CH11	2462	16.06	16.86	30

802.11n20

Test Channel	Frequency (MHz)	Output Power (ANT1)		Output Power (ANT2)		Limit	(ANT1+2) Total Power		Total Power Limit (dBm)	
		dBm	mW	dBm	mW		dBm	mW	dBm	mW
CH01	2412	13.68	23.33	13.55	22.65	30	16.63	46.03	27.29	535.8
CH06	2437	13.5	22.39	13.27	21.23	30	16.4	43.65		
CH11	2462	13.06	20.23	13.26	21.18	30	16.17	41.40		

802.11n40

Test Channel	Frequency (MHz)	Output Power (ANT1)		Output Power (ANT2)		Limit	(ANT1+2) Total Power		Total Power Limit (dBm)	
		dBm	mW	dBm	mW		dBm	mW	dBm	mW
CH01	2422	13.24	21.09	13.69	23.39	30	16.48	44.46	27.29	535.8
CH06	2437	13.55	22.65	13.5	22.39	30	16.54	45.08		
CH11	2452	13.22	20.99	13.44	22.08	30	16.34	43.05		

Note: If transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced. Antenna technology is for MIMO.

The limit should be calculated as below: Total Power Limit =30-(Directional gain-6) =27.29dbm

Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi =5.7+10log(2)=8.71dBi

5.5 Power Spectral Density

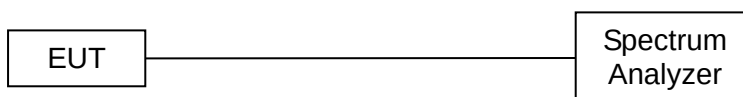
5.5.1 Limit

FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247	Power Spectral Density	8 dBm (in any 3kHz)	2400-2483.5

5.5.2 Test Procedure

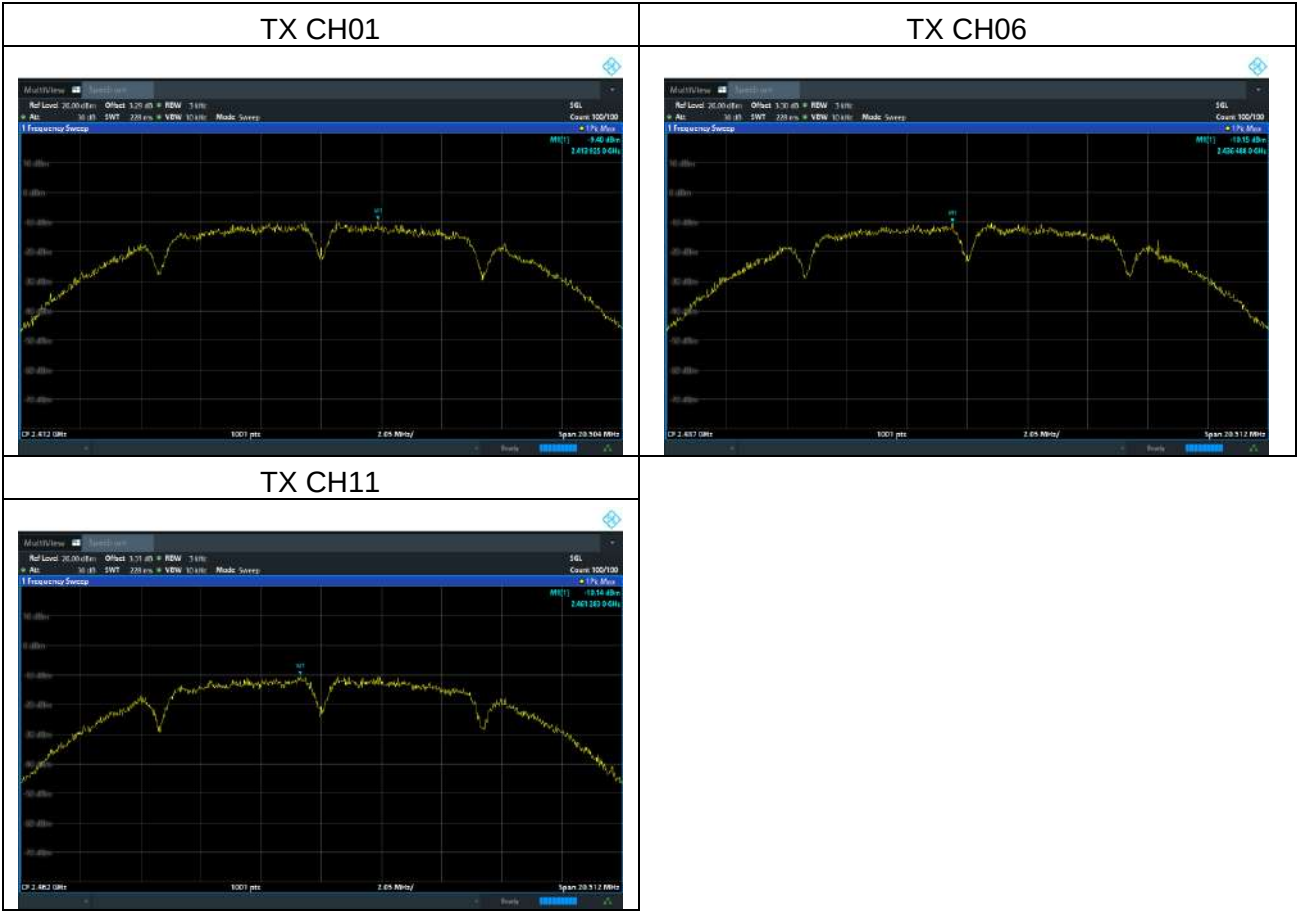
1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW ≥ 3 kHz.
4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the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

5.5.3 Test Setup



5.5.4 Test Results

802.11b ANT1				
Test Channel	Frequency(MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-9.4	8	Pass
CH06	2437	-10.15	8	Pass
CH11	2462	-10.14	8	Pass



802.11b ANT2				
Test Channel	Frequency(MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-11.01	8	Pass
CH06	2437	-10.56	8	Pass
CH11	2462	-11.23	8	Pass

TX CH01



TX CH06

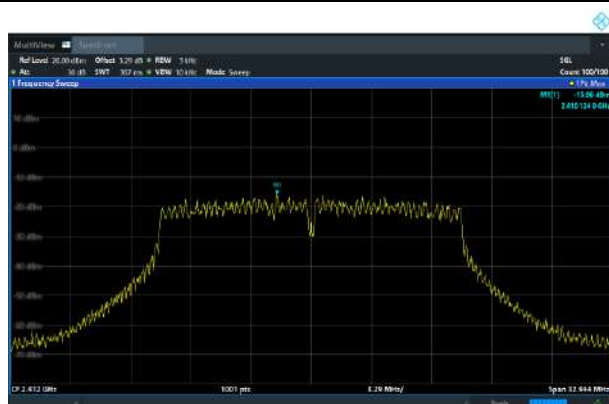


TX CH11

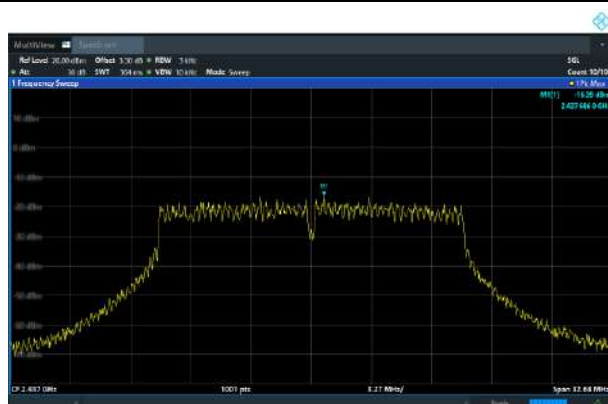


802.11g ANT1				
Test Channel	Frequency(MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-15.96	8	Pass
CH06	2437	-16.39	8	Pass
CH11	2462	-16.82	8	Pass

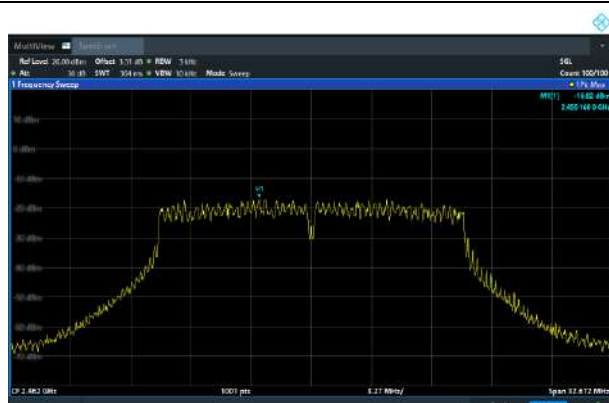
TX CH01



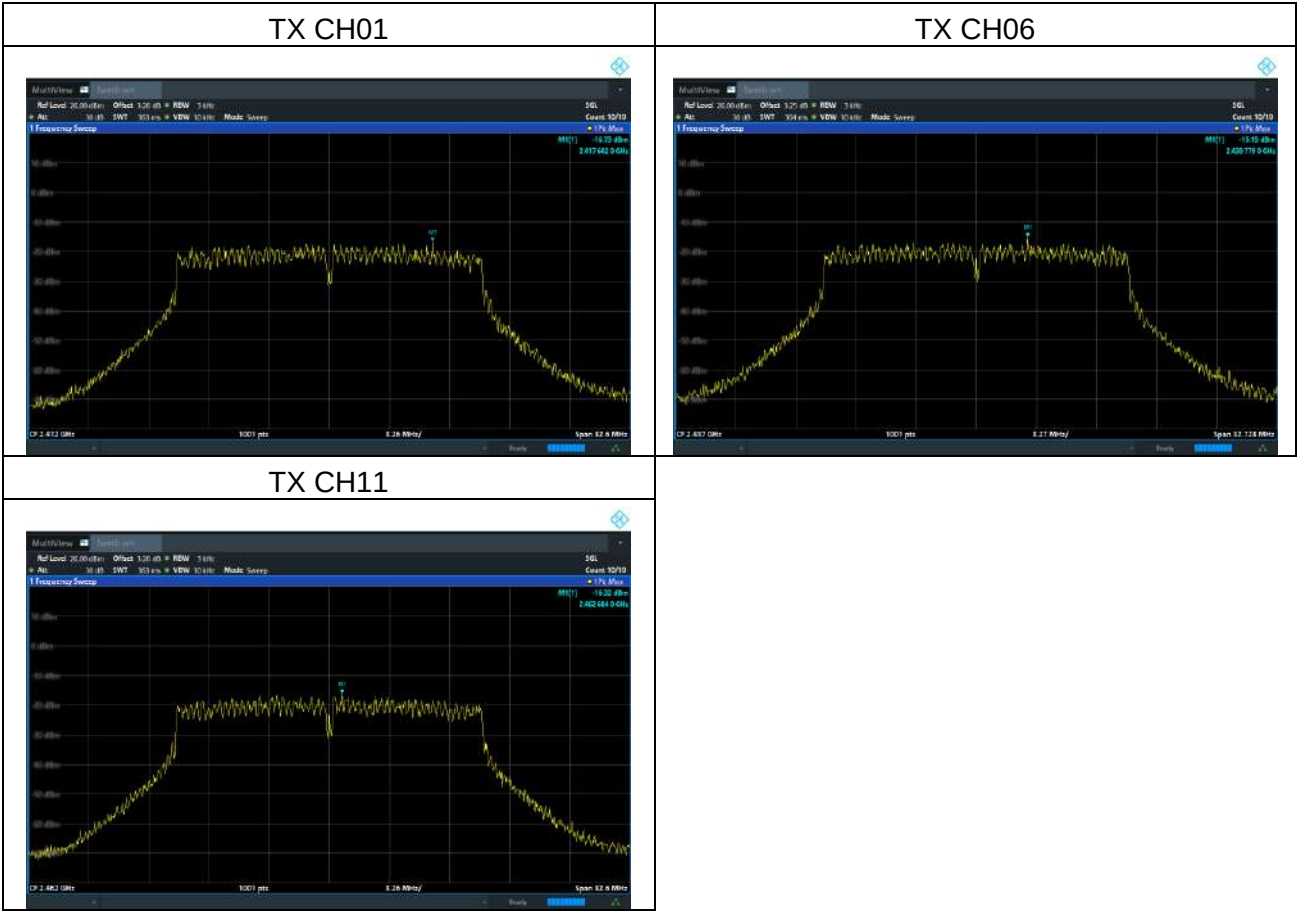
TX CH06



TX CH11



802.11g ANT2				
Test Channel	Frequency(MHz)	Power Density (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-16.73	8	Pass
CH06	2437	-15.15	8	Pass
CH11	2462	-16.32	8	Pass

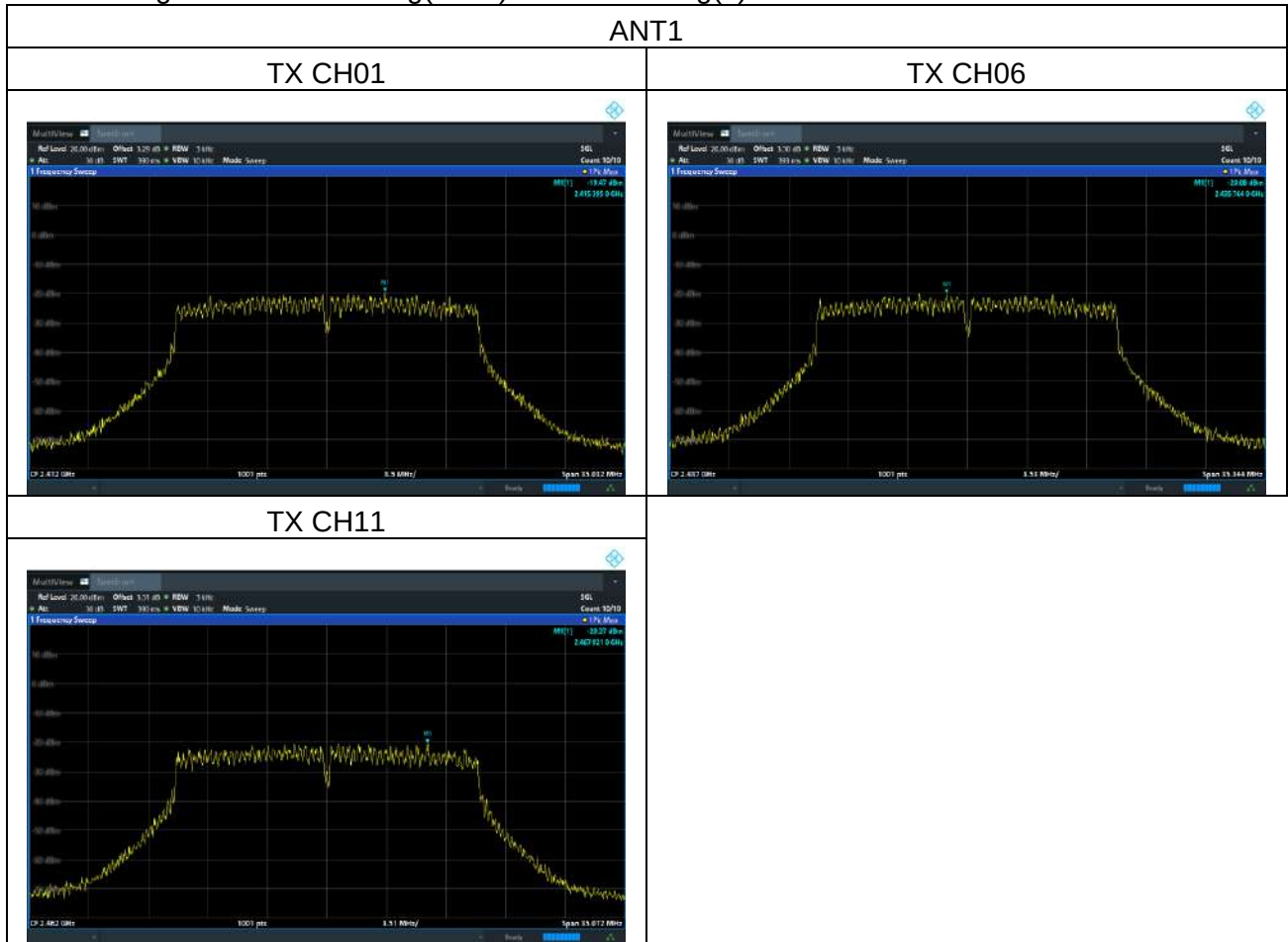


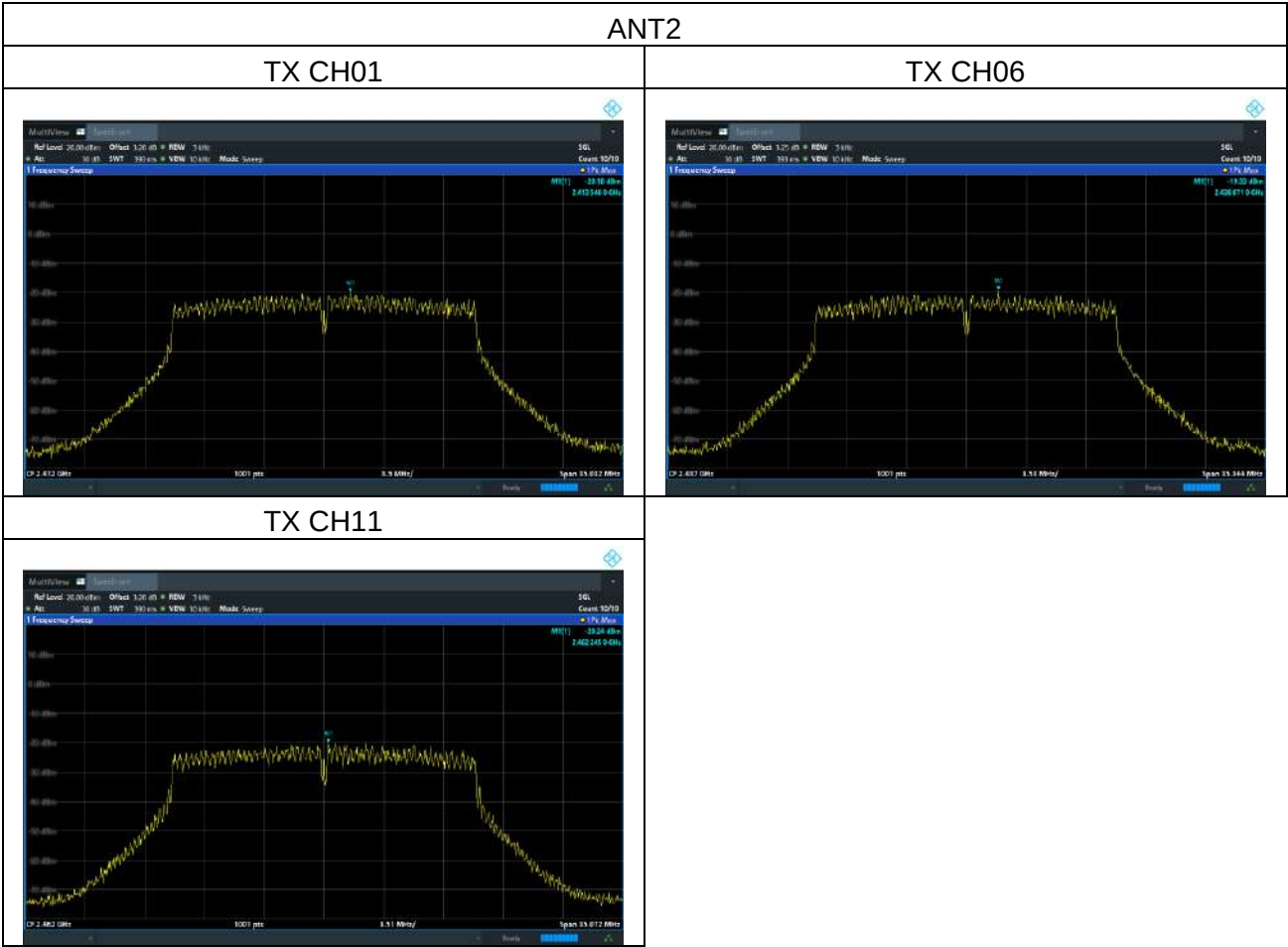
802.11n20						
Test Channel	Frequency (MHz)	Power Density of ANT1 (dBm/3kHz)	Power Density of ANT2 (dBm/3kHz)	Total Power Density of (ANT1 + 2) (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH01	2412	-19.47	-20.18	-16.8	5.29	Pass
CH06	2437	-20.08	-19.33	-16.68	5.29	Pass
CH11	2462	-20.37	-20.24	-17.29	5.29	Pass

Note: If transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced.

The limit should be calculated as below: Total Power Limit = 8-(Directional gain-6) =5.29dbm

Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi =5.7+10log(2)=8.71dBi



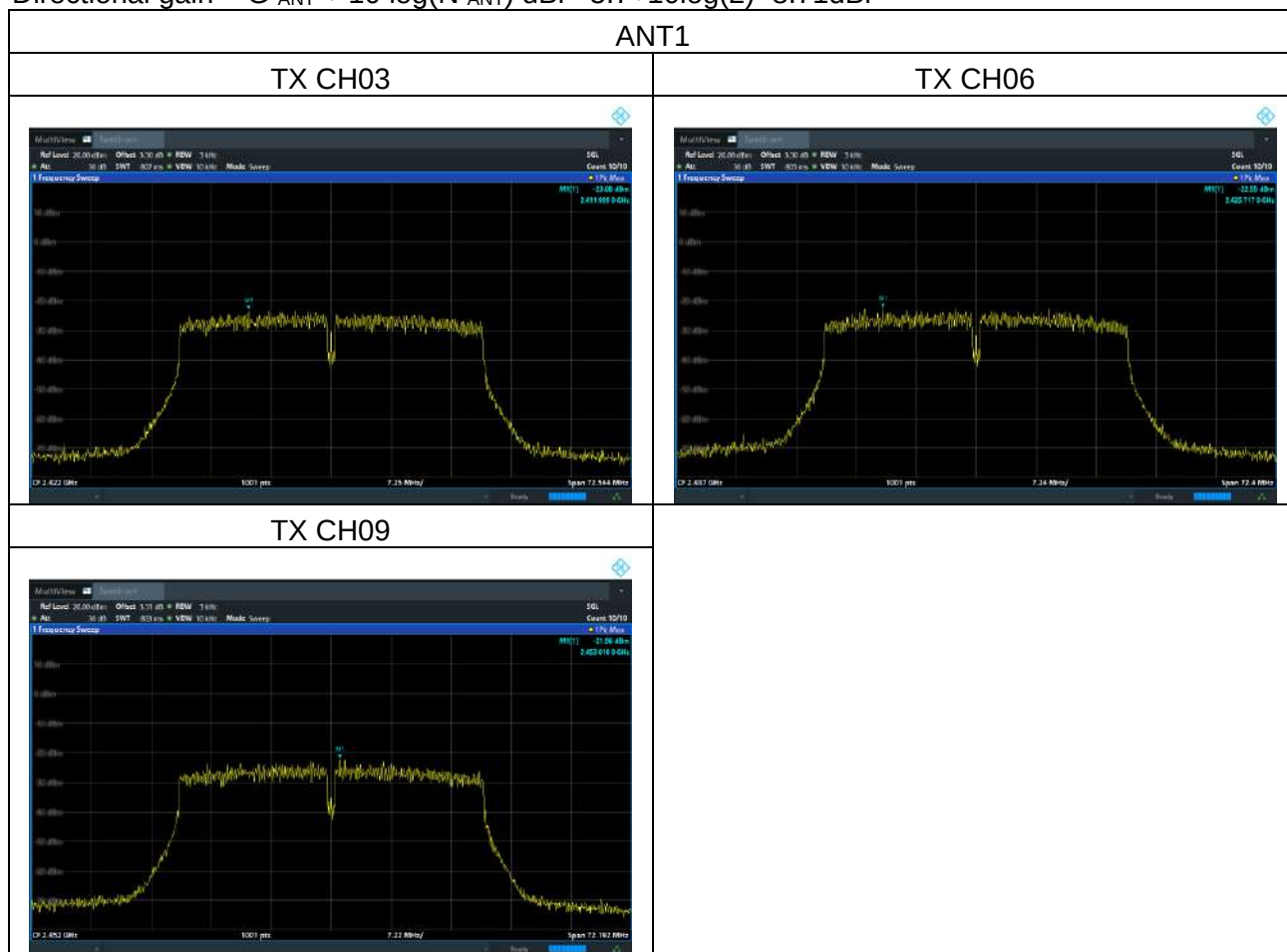


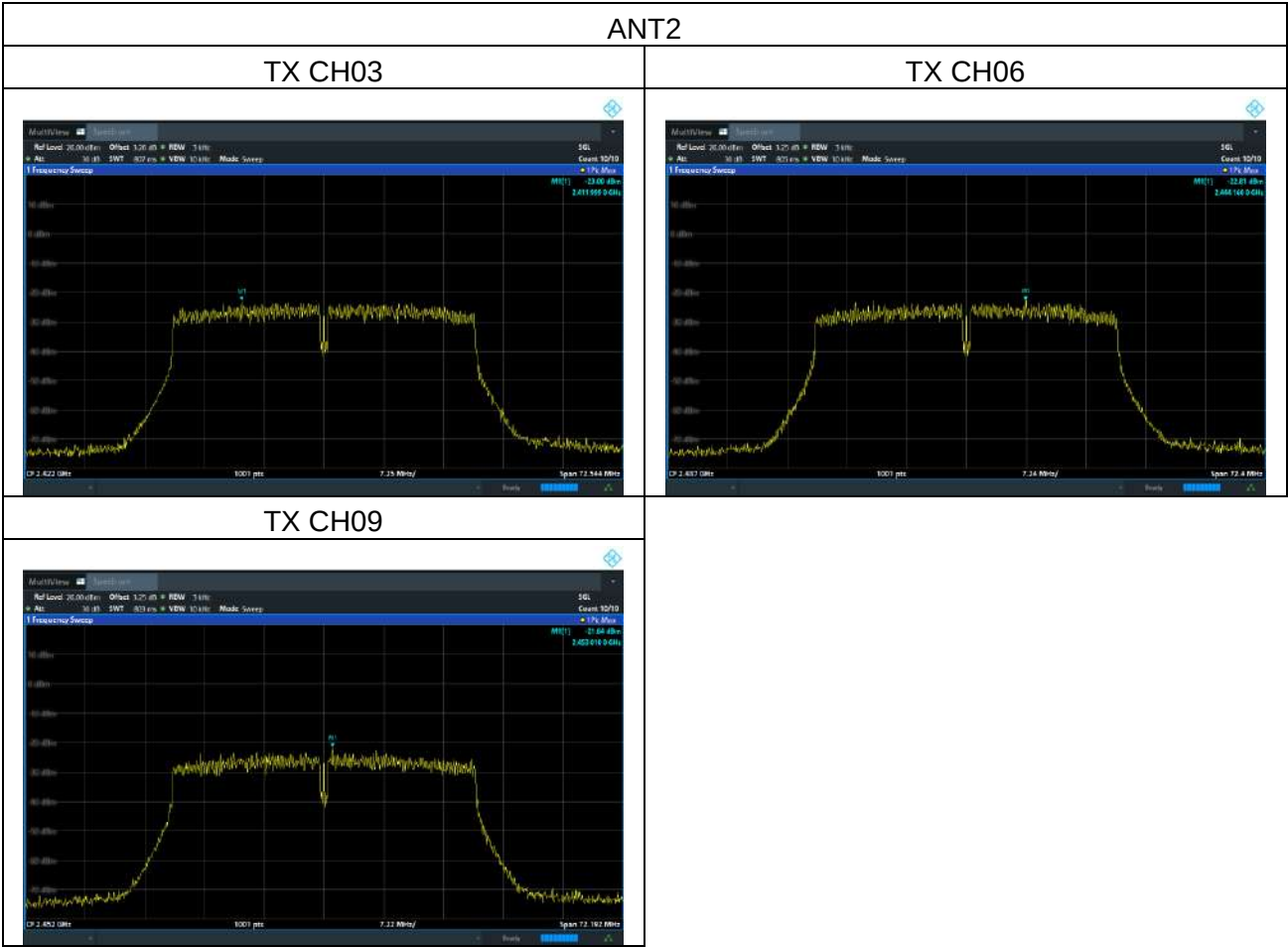
802.11n40						
Test Channel	Frequency (MHz)	Power Density of ANT 1 (dBm/3kHz)	Power Density of ANT 2 (dBm/3kHz)	Total Power Density of (ANT 1 + 2) (dBm/3kHz)	Limit (dBm/3kHz)	Result
CH03	2422	-23.08	-23	-20.03	5.29	Pass
CH06	2437	-22.55	-22.81	-19.67	5.29	Pass
CH09	2452	-21.96	-21.64	-18.79	5.29	Pass

Note: If transmitting antennas of directional gain greater than 6 dBi are used, then the limit should be reduced.

The limit should be calculated as below: Total Power Limit = 8-(Directional gain-6) =5.29dbm

Directional gain = $G_{ANT} + 10 \log(N_{ANT})$ dBi =5.7+10log(2)=8.71dBi





5.6 6dB Bandwidth

5.6.1 Limit

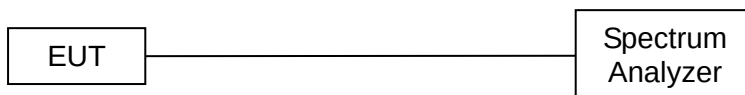
FCC Part15 (15.247) , Subpart C			
Section	Test Item	Limit	Frequency Range (MHz)
15.247(a)(2)	Bandwidth	$\geq 500\text{kHz}$ (6dB bandwidth)	2400-2483.5

5.6.2 Test Procedure

The steps for the first option are as follows:

- Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max-hold.
- Sweep = No faster than coupled (auto) time.
- Allow the trace to stabilize.
- 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.

5.6.3 Test Setup

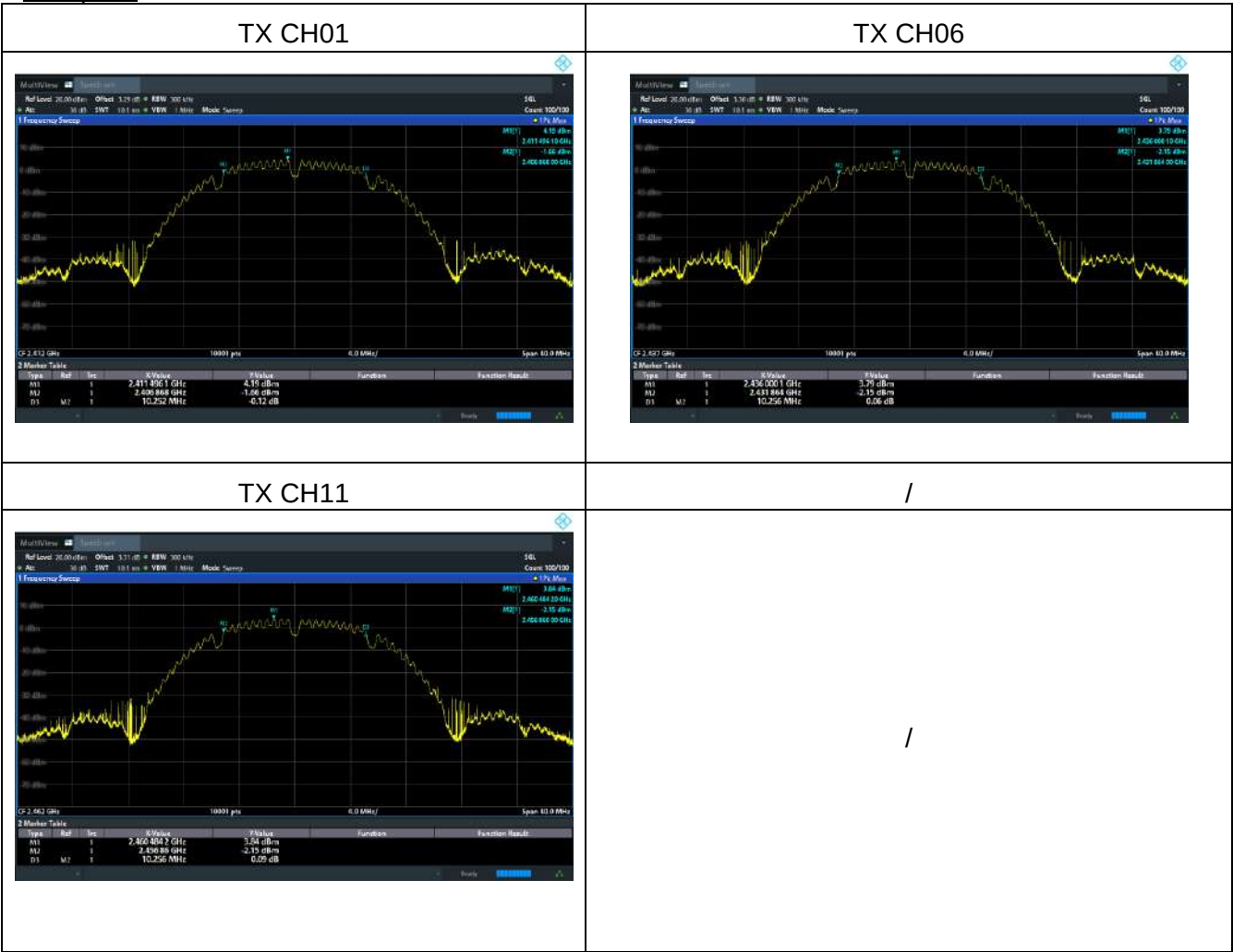


5.6.4 Test Results

EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	ANT1 TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	10.252	500	Pass
CH06	2437	10.256	500	Pass
CH11	2462	10.256	500	Pass

Test plots



EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	ANT2 TX b Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	10.252	500	Pass
CH06	2437	10.256	500	Pass
CH11	2462	10.256	500	Pass

Test plots

TX CH01



TX CH06



TX CH11



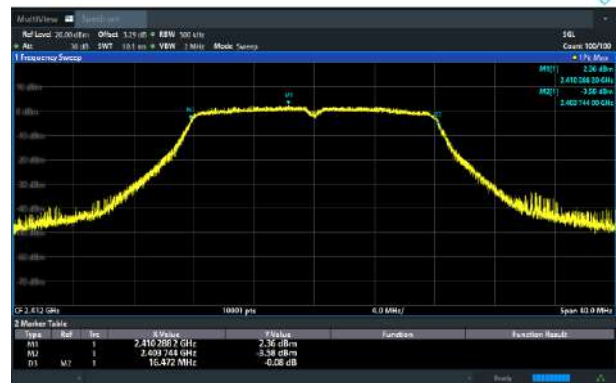
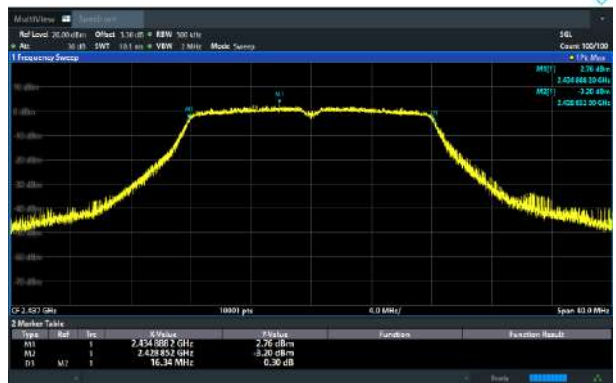
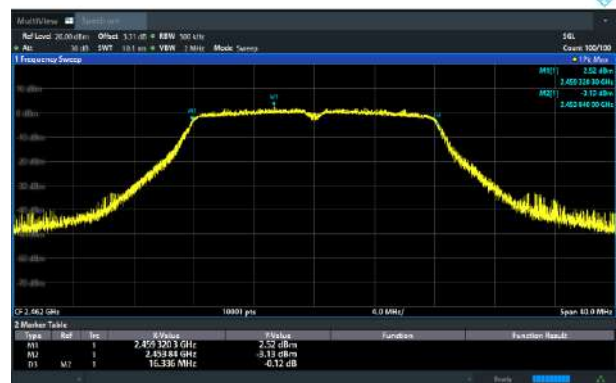
/

/

EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	ANT1 TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	16.472	500	Pass
CH06	2437	16.34	500	Pass
CH11	2462	16.336	500	Pass

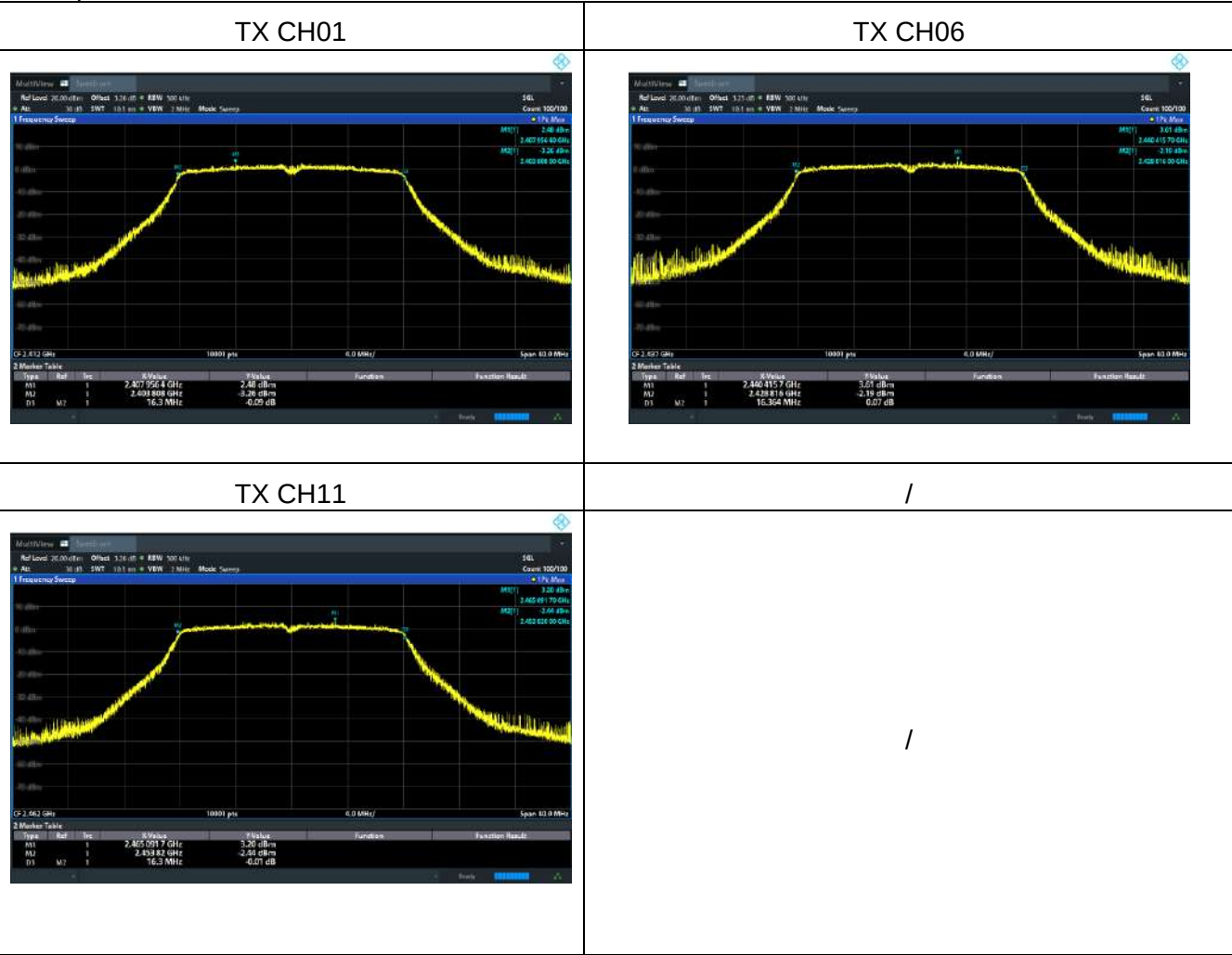
Test plots

TX CH01 	TX CH06 
TX CH11 	/ /

EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	ANT2 TX g Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	16.3	500	Pass
CH06	2437	16.364	500	Pass
CH11	2462	16.3	500	Pass

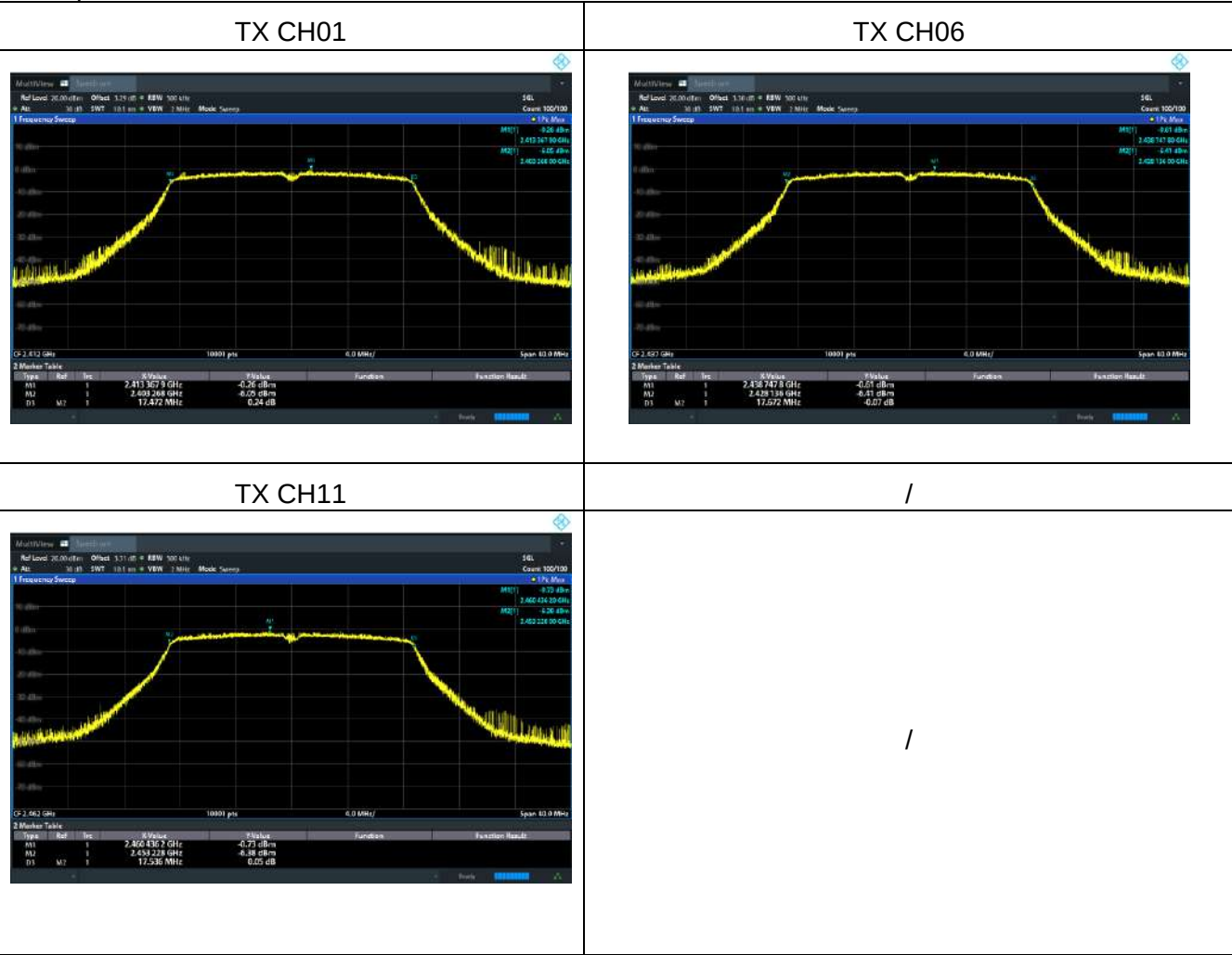
Test plots



EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	ANT1 TX n20 Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	17.472	500	Pass
CH06	2437	17.672	500	Pass
CH11	2462	17.536	500	Pass

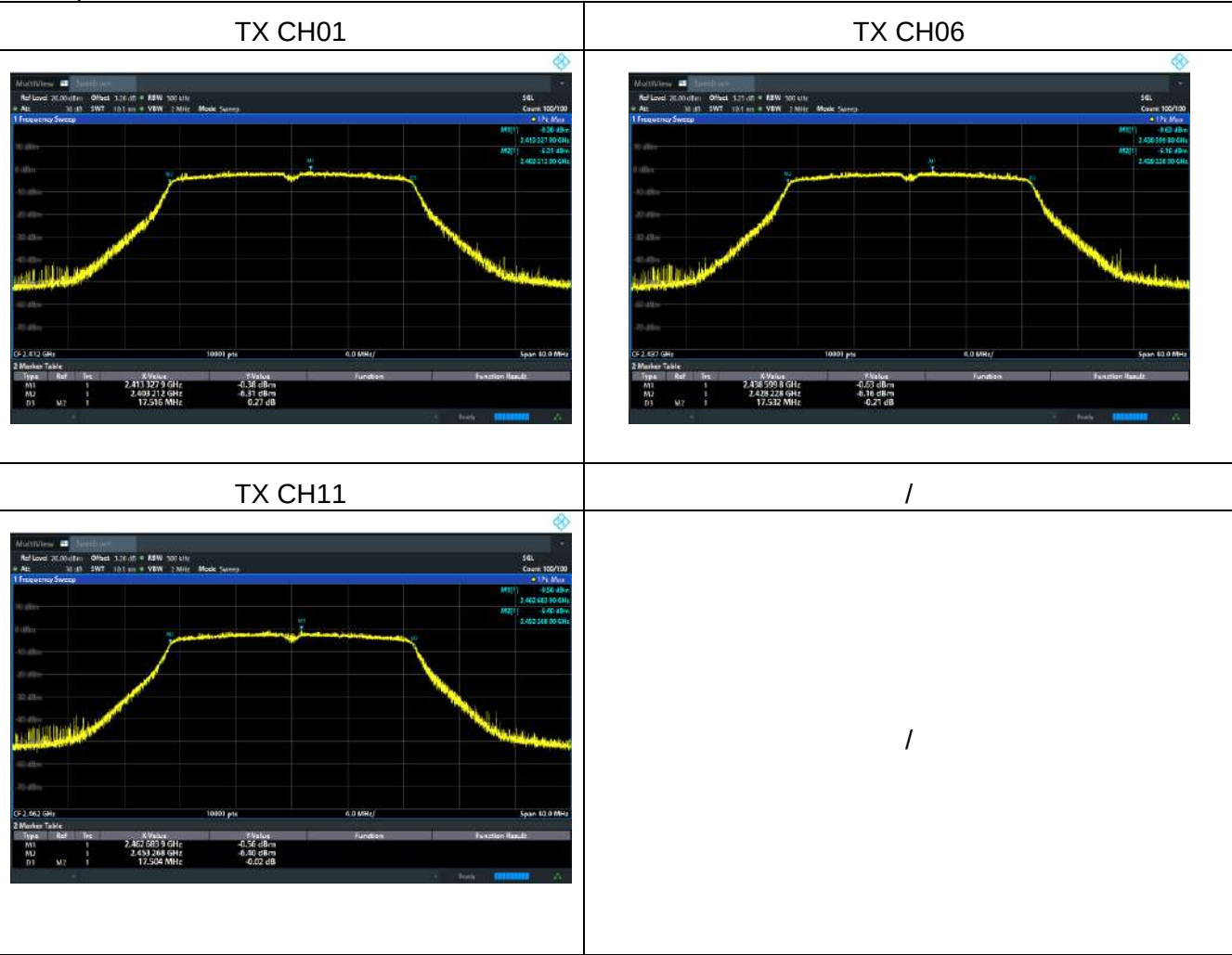
Test plots



EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	ANT2 TX n20 Mode /CH01, CH06, CH11		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH01	2412	17.516	500	Pass
CH06	2437	17.532	500	Pass
CH11	2462	17.504	500	Pass

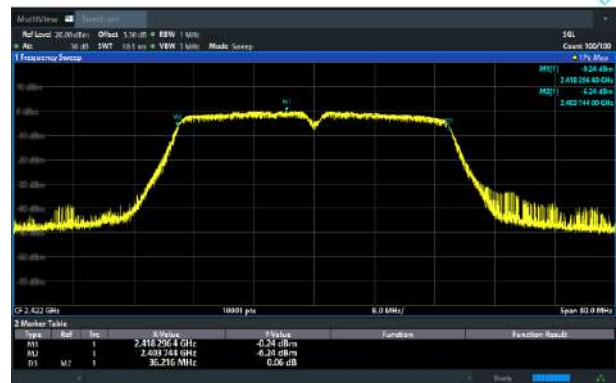
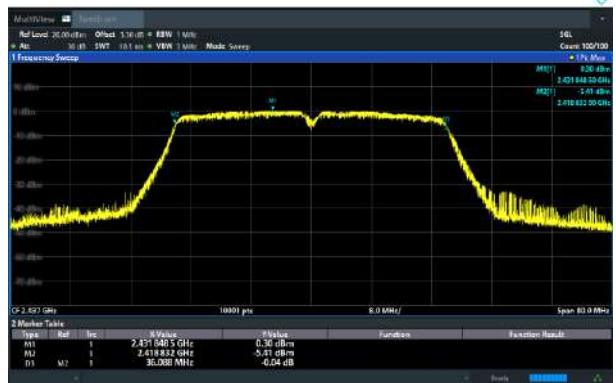
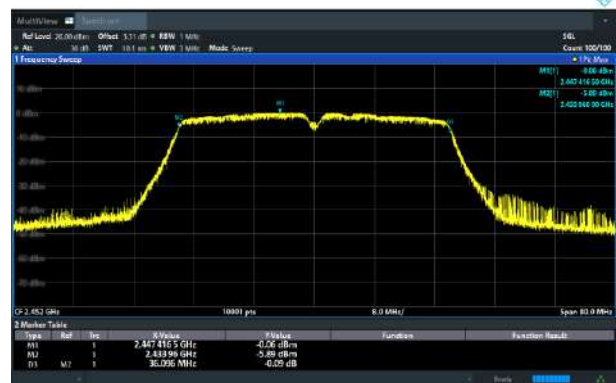
Test plots



EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	ANT1 TX n40 Mode /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH03	2422	36.216	500	Pass
CH06	2437	36.088	500	Pass
CH09	2452	36.096	500	Pass

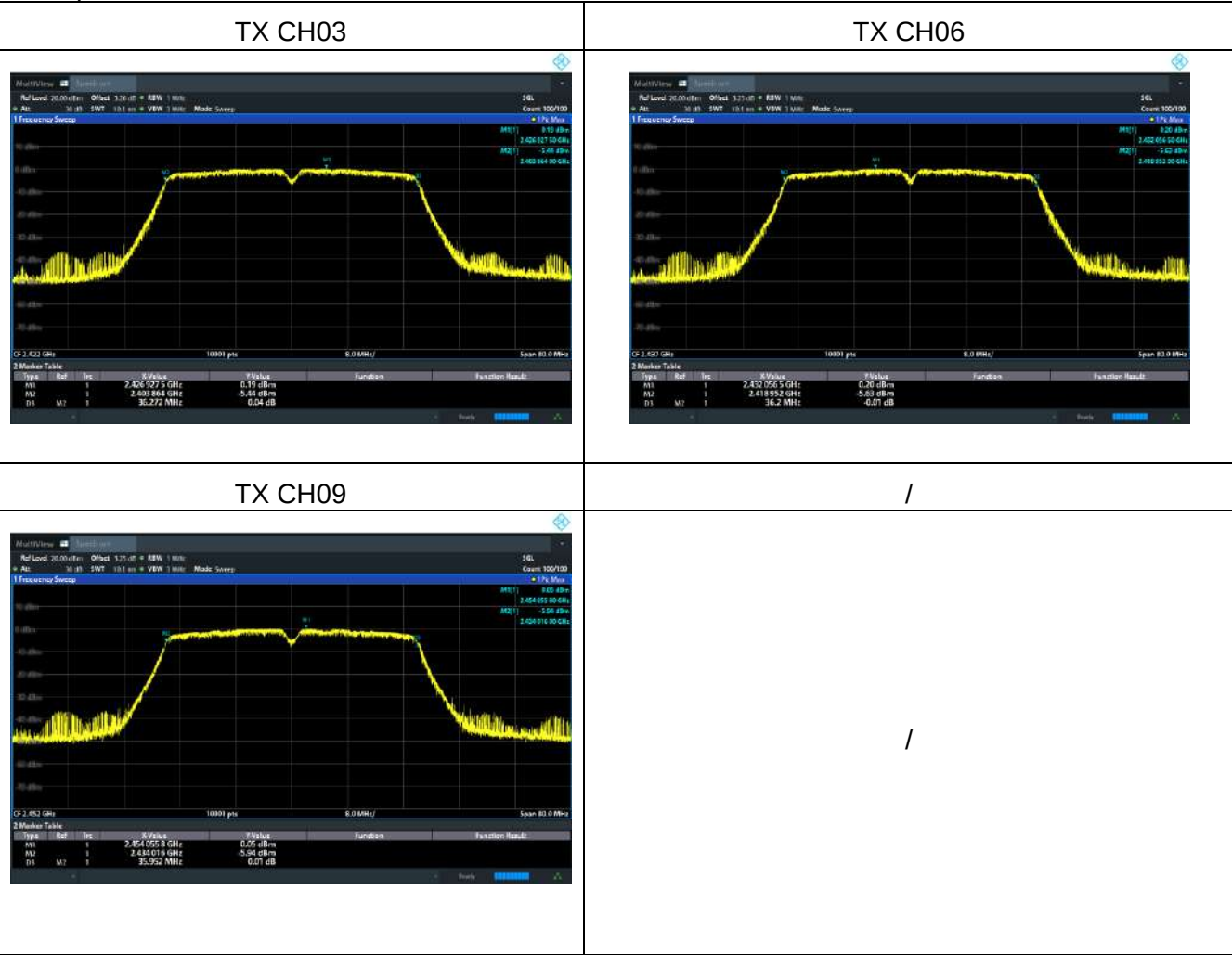
Test plots

TX CH03 	TX CH06 
TX CH09 	/ /

EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	ANT2 TX n40 Mode /CH03, CH06, CH09		

Channel	Frequency (MHz)	6dB bandwidth (MHz)	Limit (kHz)	Result
CH03	2422	36.272	500	Pass
CH06	2437	36.2	500	Pass
CH09	2452	35.952	500	Pass

Test plots



5.7 Duty Cycle

5.7.1 Limit

No limit requirement.

5.7.2 Test Procedure

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. Set the center frequency of the instrument to the center frequency of the transmission. Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value. Set $VBW \geq RBW$. Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

The transmitter output is connected to the Spectrum Analyzer. We tested according to the zero-span measurement method, 6.0(b) in KDB 558074 D01 DTS Meas Guidance v05r02.

The largest available value of RBW is 10 MHz and VBW is 10 MHz. The zero-span method of measuring duty cycle shall not be used if $T \leq 6.25$ microseconds. ($50/6.25 = 8$)

The zero-span method was used because all measured T data are > 6.25 microseconds and both RBW and VBW are $> 50/T$.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Span = Zero Span

RBW = 10MHz (the largest available value)

VBW = 10MHz ($\geq$ RBW)

Number of points in Sweep > 100

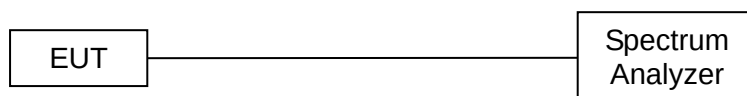
Detector function = peak

Trace = Clear write

Measure Total and Ton

Calculate Duty Cycle = $Ton / Total$

5.7.3 Test Setup



5.7.4 Test Results

EUT:	MLM2PRO	Model Name:	MLM2.0P
Pressure:	1012 hPa	Test Voltage:	DC 7.4V from battery
Test Mode:	TX b/g/n(20/40) Mode		

ANT 1:

Mode	Data rate	Frequency (MHz)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	11 Mbps	2412	12.423	12.879	96.46	0.16	0.08
b	11 Mbps	2437	12.423	12.870	96.53	0.15	0.08
b	11 Mbps	2462	12.423	12.789	97.14	0.13	0.08
g	54 Mbps	2412	2.066	2.268	91.09	0.41	0.48
g	54 Mbps	2437	2.066	2.196	94.08	0.27	0.48
g	54 Mbps	2462	2.066	2.214	93.32	0.30	0.48

Note:

1. Duty Cycle = T_{on} / T_{total}
2. Correction Factor = $10 \log (1 / \text{Duty Cycle})$
3. $1 / T = 1 / T_{on}$

ANT 2:

Mode	Data rate	Frequency (MHz)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
b	11 Mbps	2412	12.423	12.807	97.00	0.13	0.08
b	11 Mbps	2437	12.423	12.906	96.26	0.17	0.08
b	11 Mbps	2462	12.423	12.789	97.14	0.13	0.08
g	54 Mbps	2412	2.066	2.242	92.15	0.36	0.48
g	54 Mbps	2437	2.066	2.214	93.32	0.30	0.48
g	54 Mbps	2462	2.066	2.250	91.82	0.37	0.48

Note:

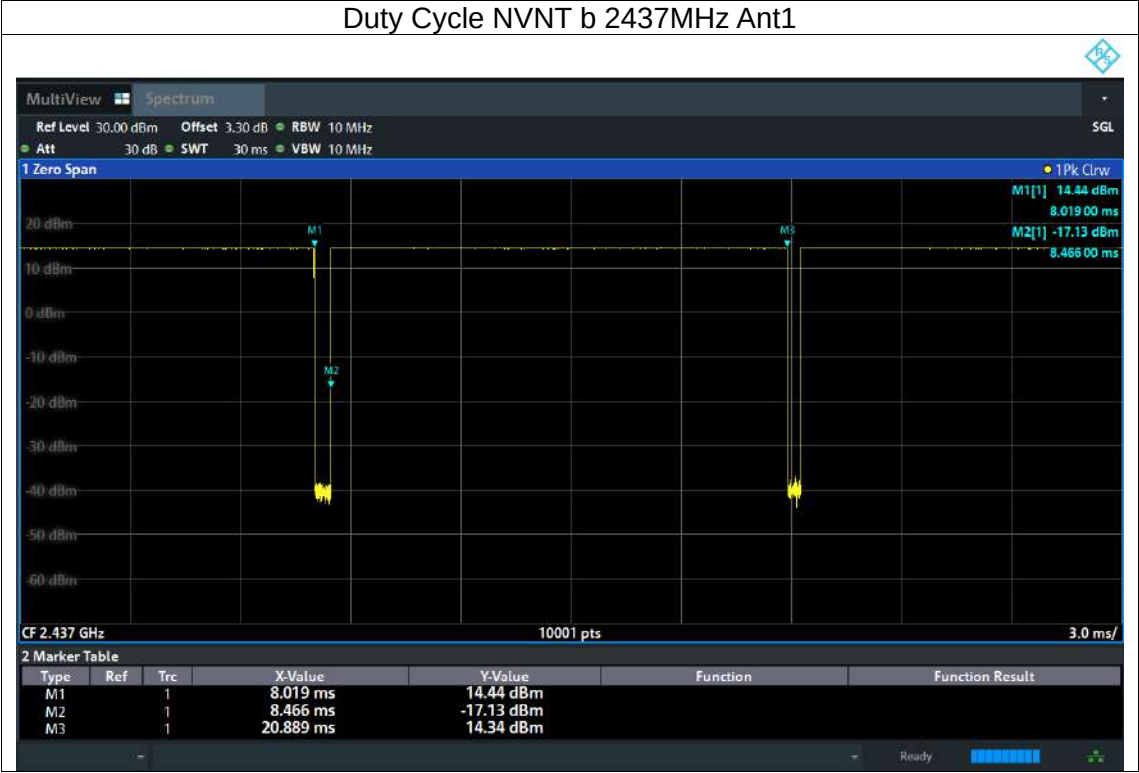
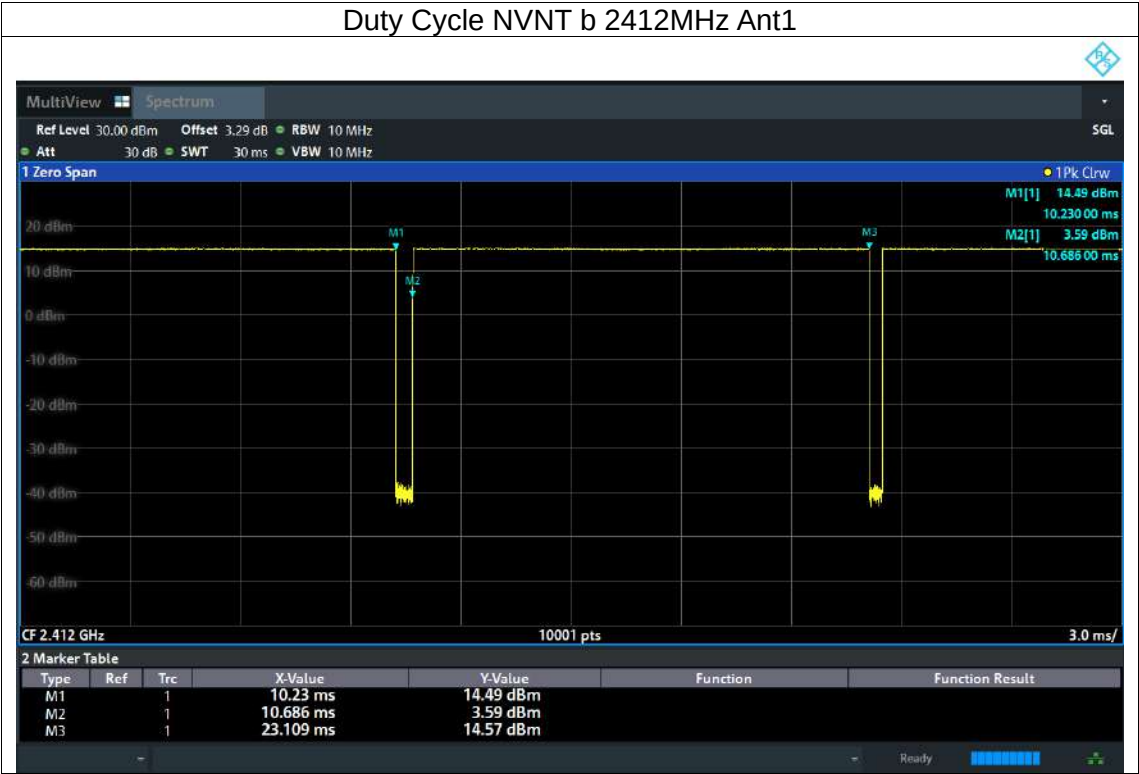
1. Duty Cycle = T_{on} / T_{total}
2. Correction Factor = $10 \log (1 / \text{Duty Cycle})$
3. $1 / T = 1 / T_{on}$

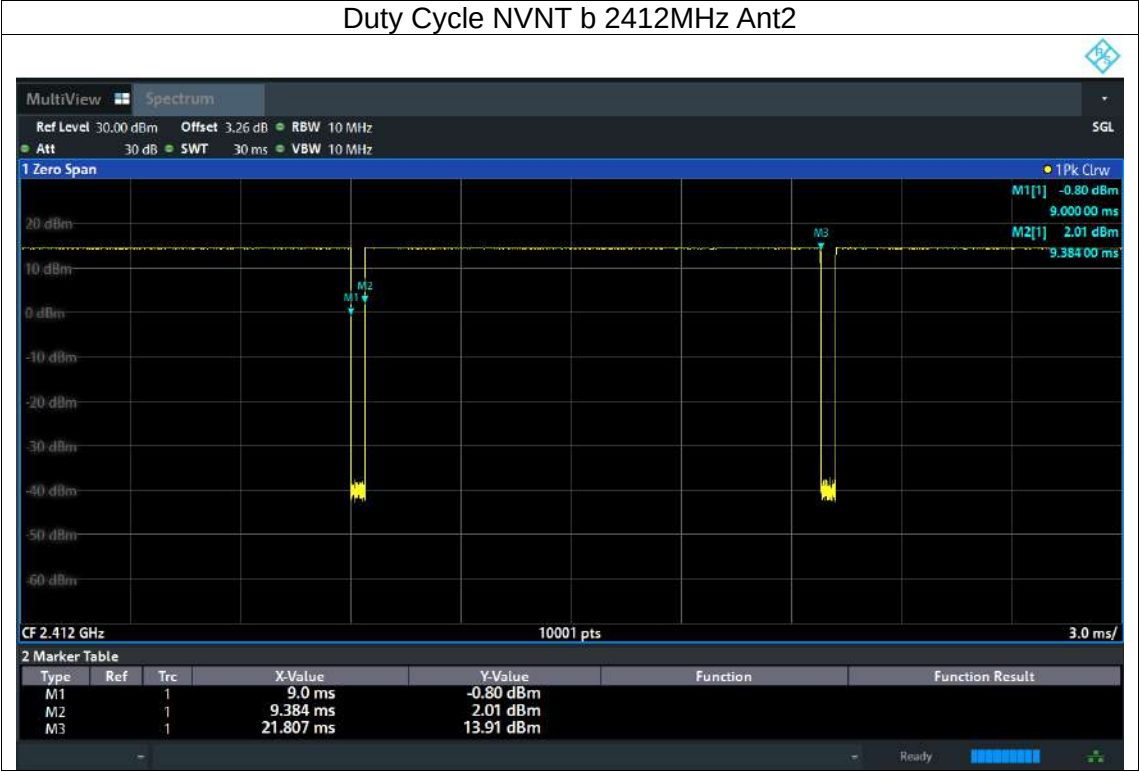
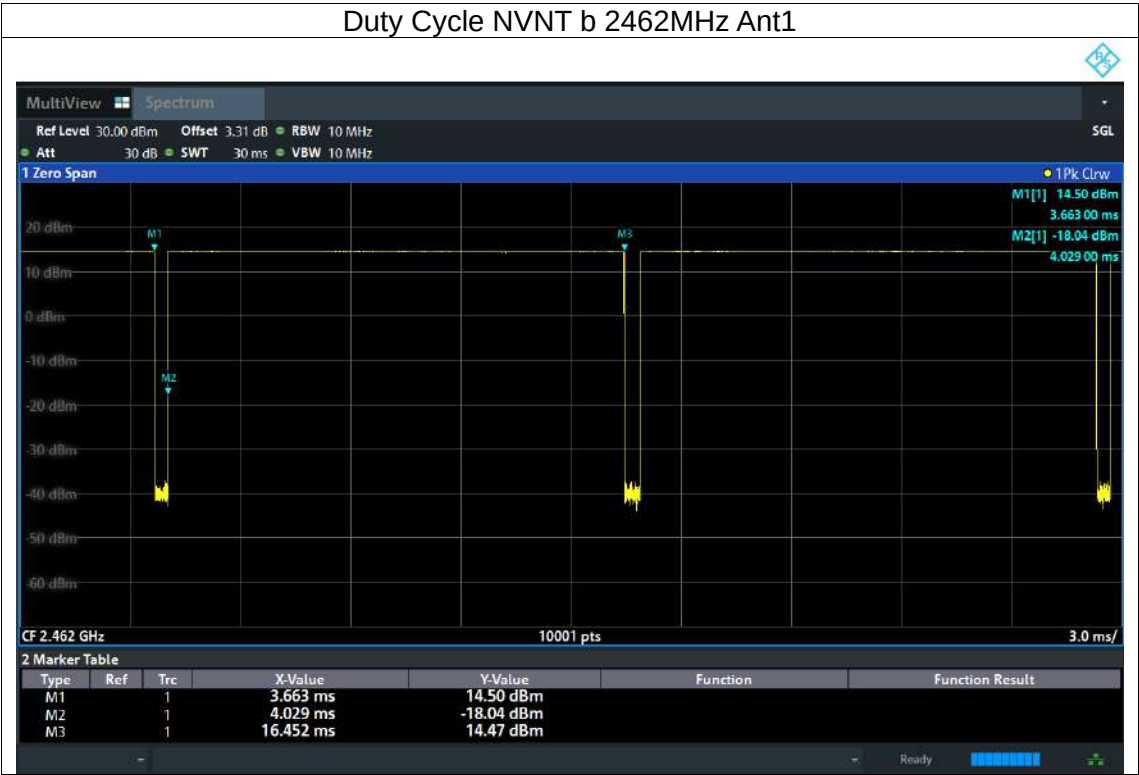
ANT1+ 2:

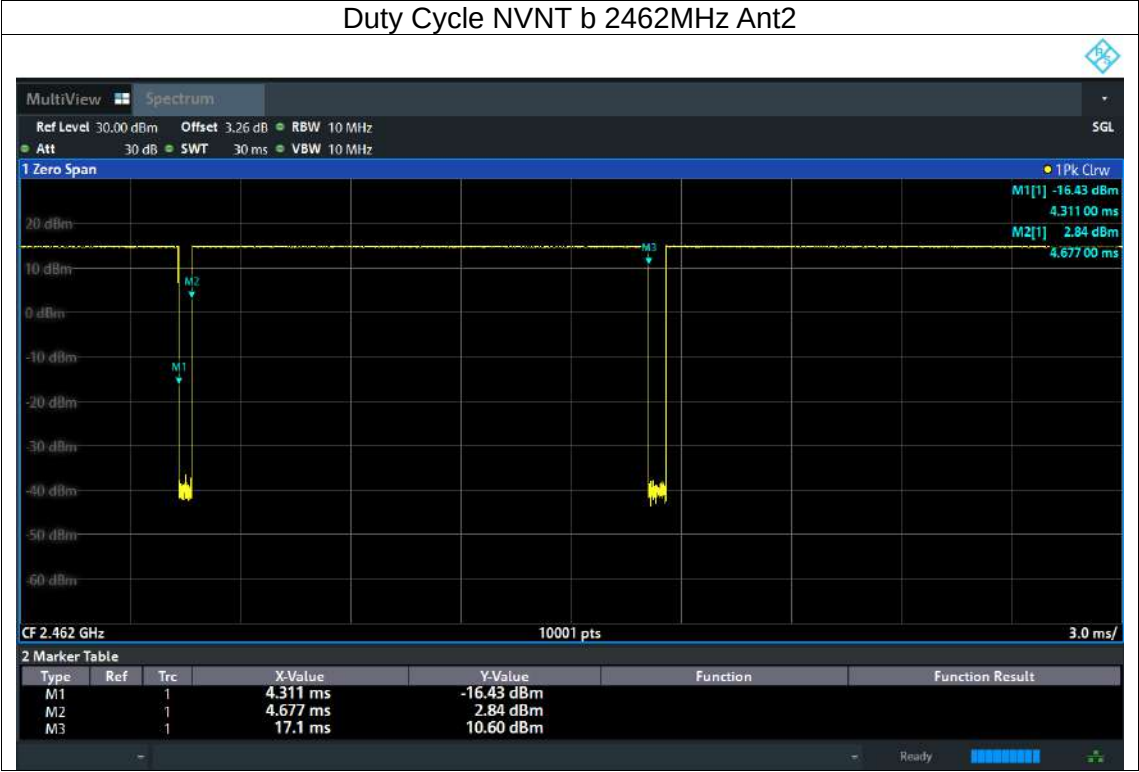
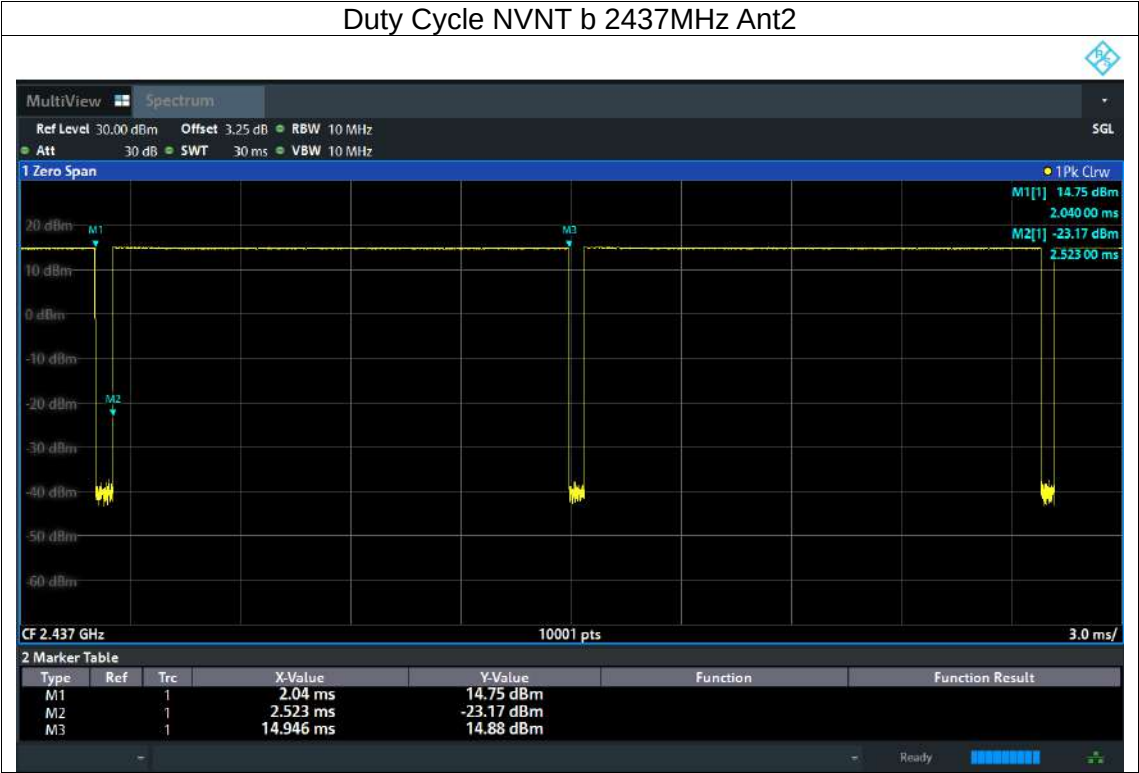
Mode	Data rate	Frequency (MHz)	T _{on} (ms)	T _{total} (ms)	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
n20	MCS15	2412	1.922	2.078	92.49	0.34	0.52
n20	MCS15	2437	1.922	2.142	89.73	0.47	0.52
n20	MCS15	2462	1.922	2.078	92.49	0.34	0.52
n40	MCS15	2422	0.946	1.112	85.07	0.70	1.06
n40	MCS15	2437	0.946	1.130	83.72	0.77	1.06
n40	MCS15	2452	0.946	1.140	82.98	0.81	1.06

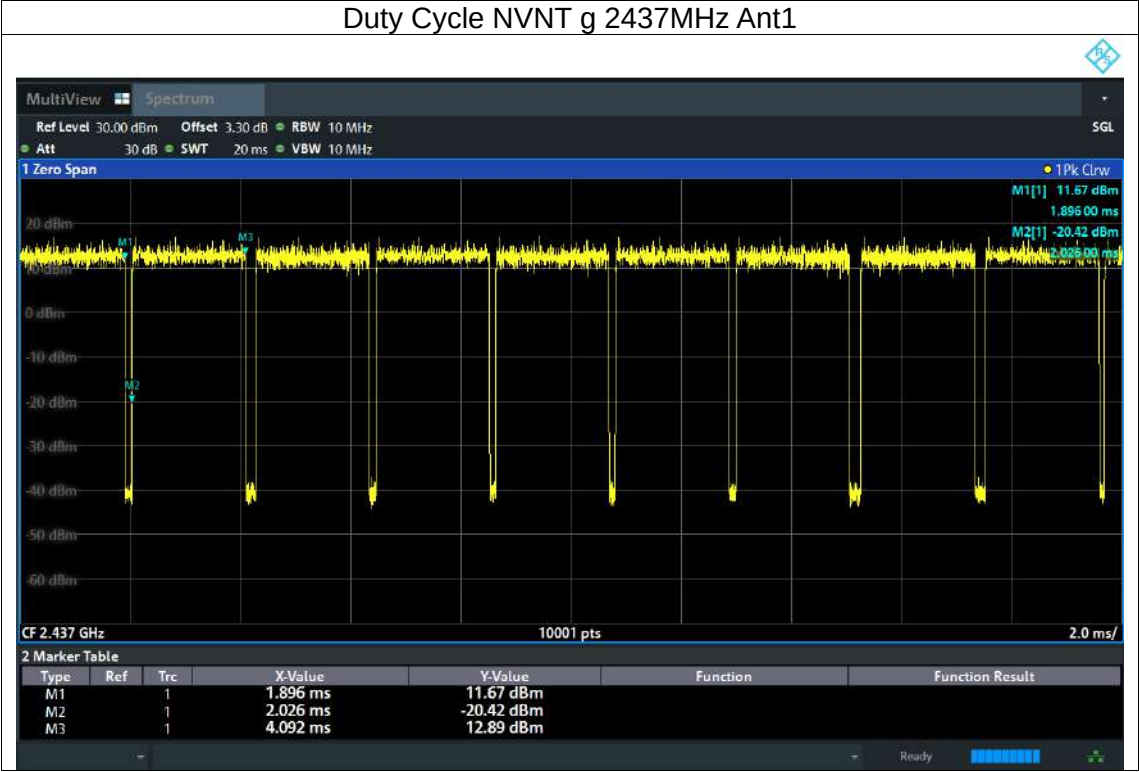
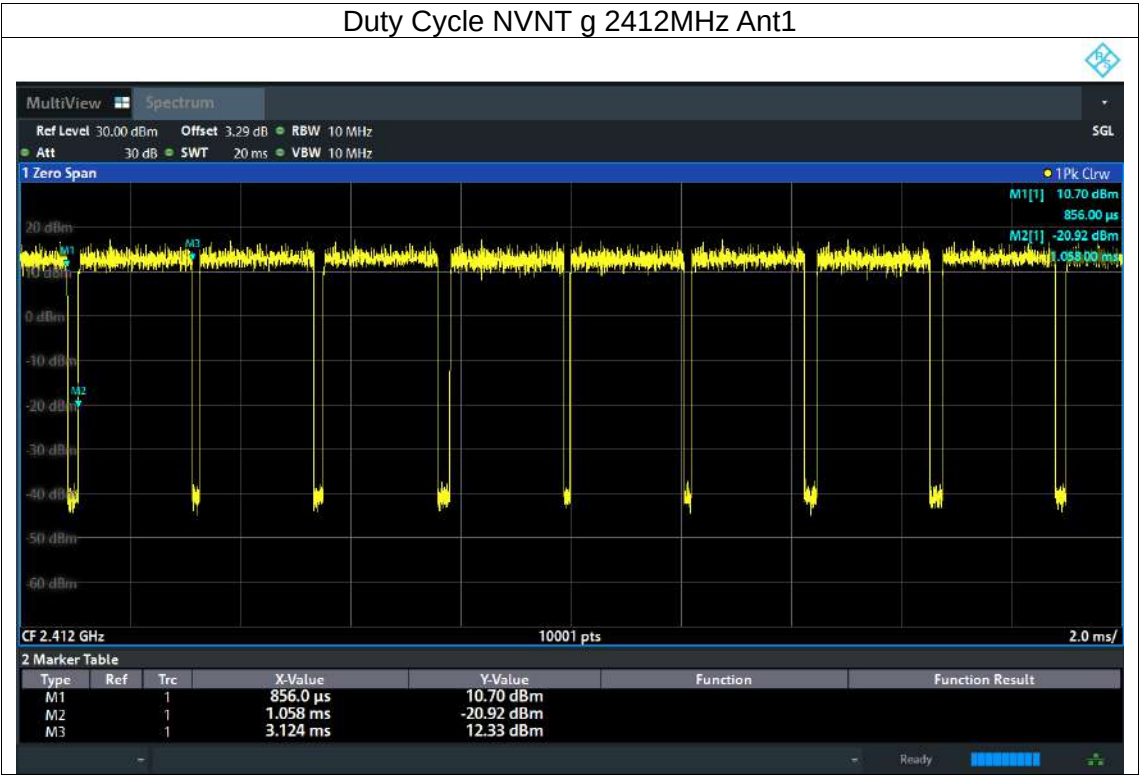
Note:

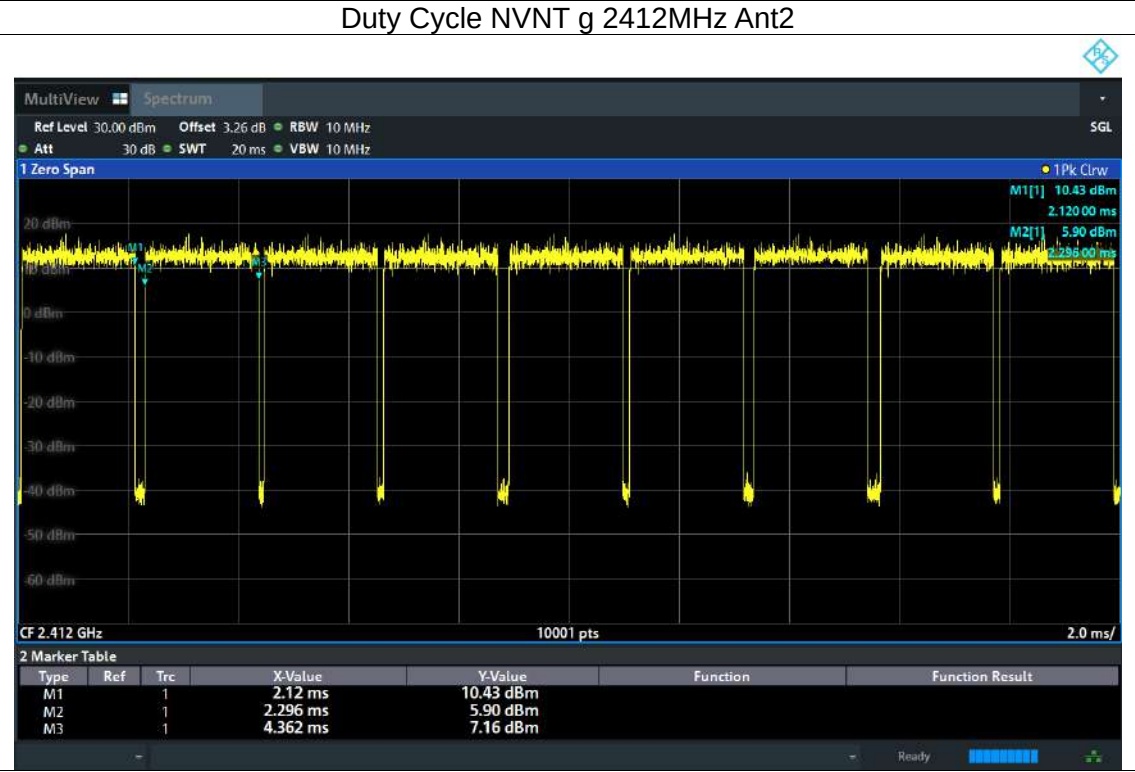
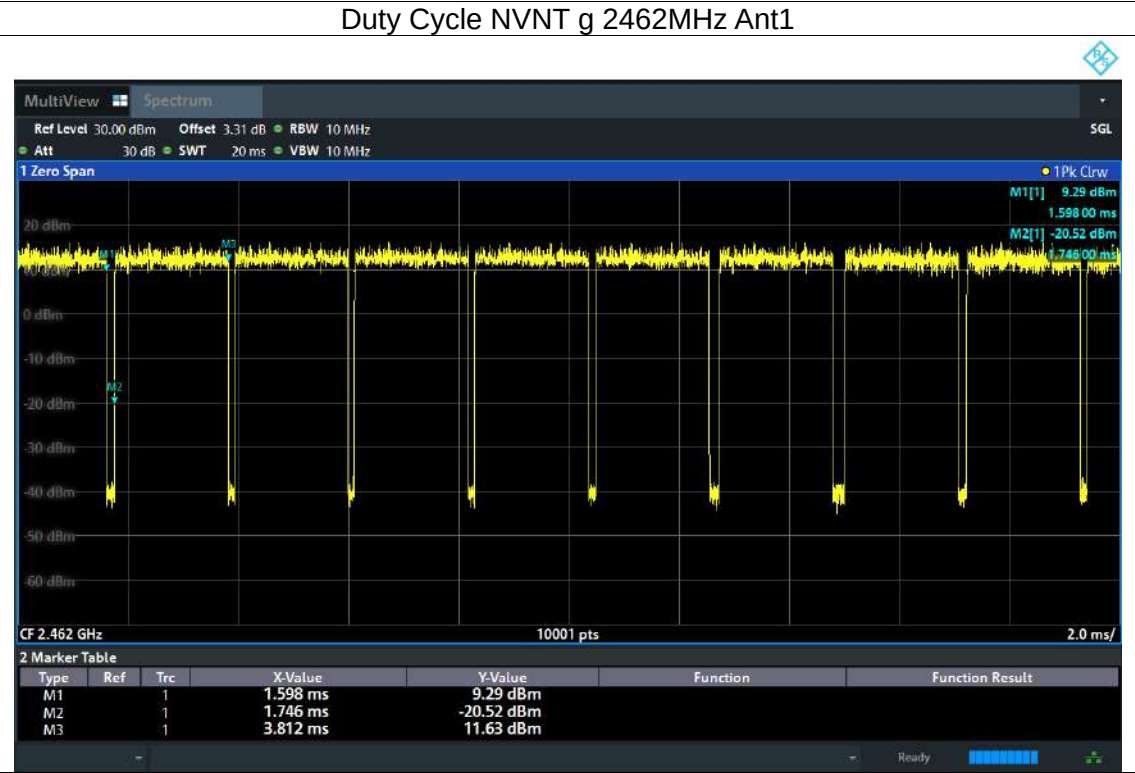
1. Duty Cycle = T_{on} / T_{total}
2. Correction Factor = $10 \log (1 / \text{Duty Cycle})$
3. $1 / T = 1 / T_{on}$

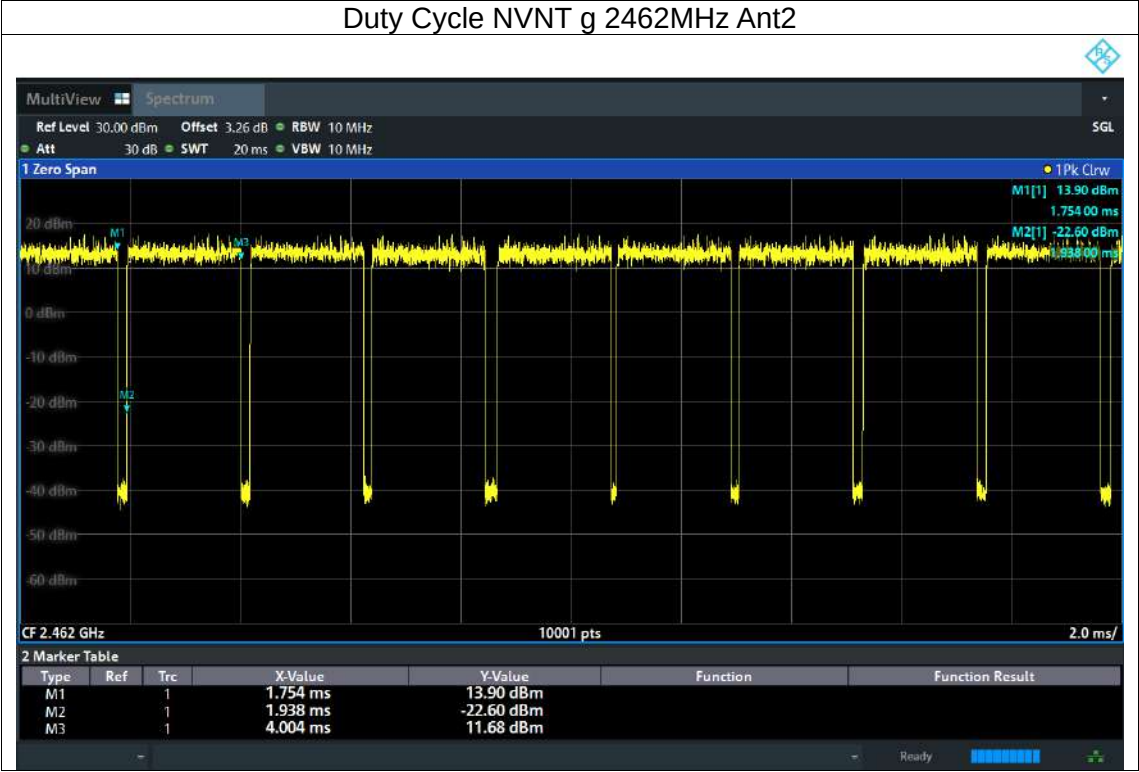
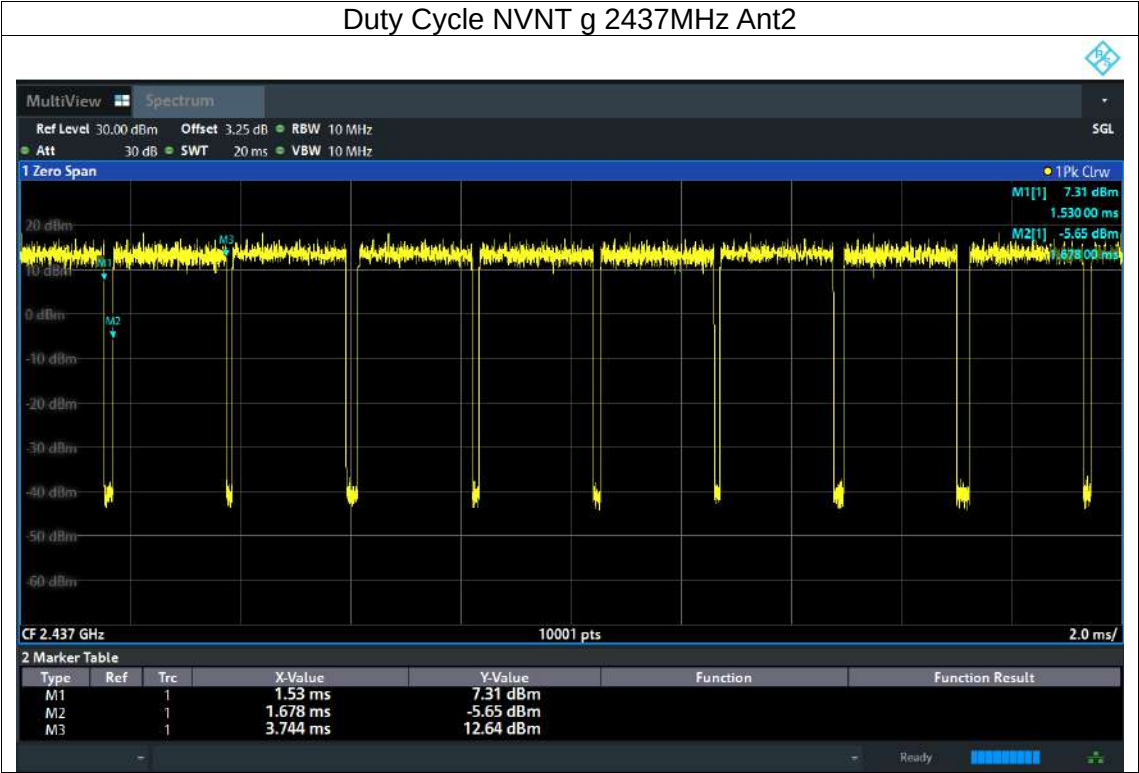


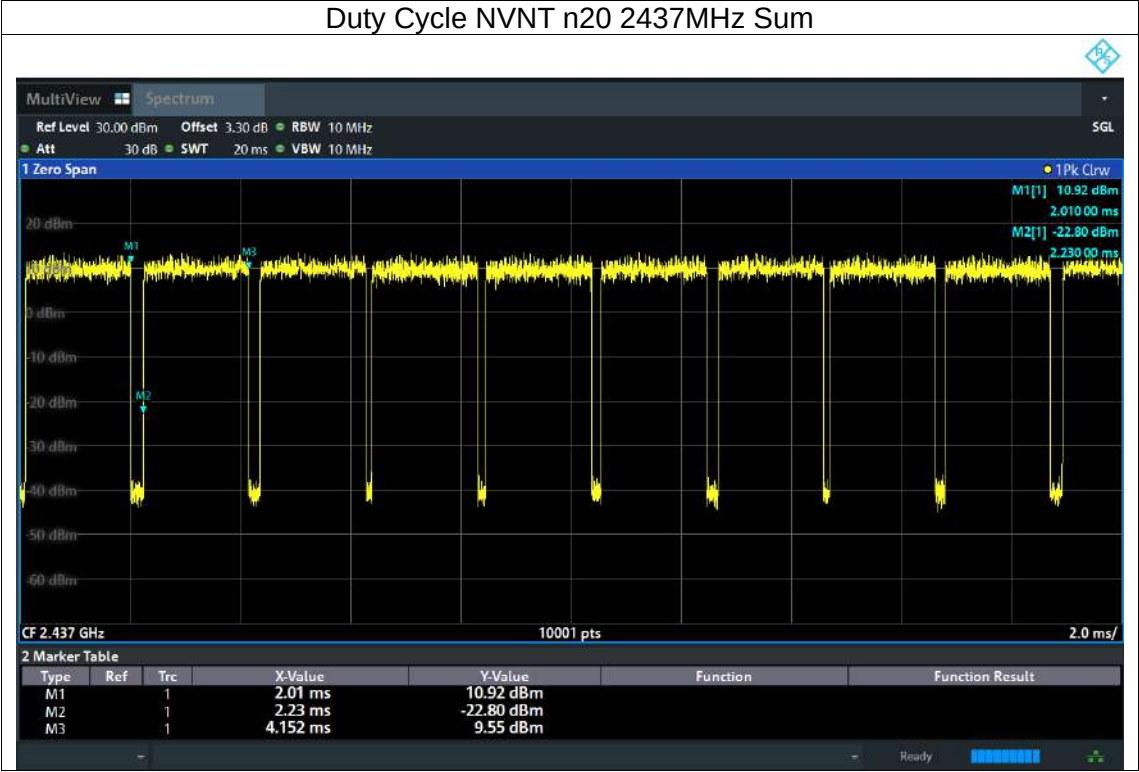
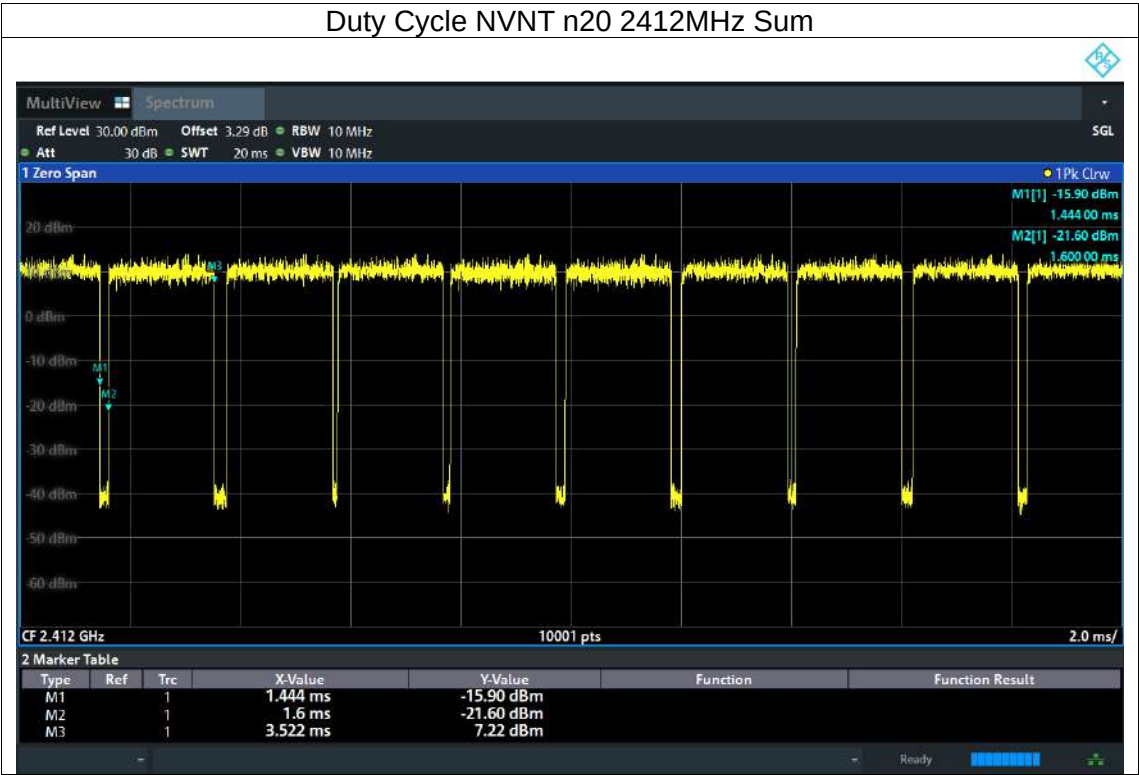


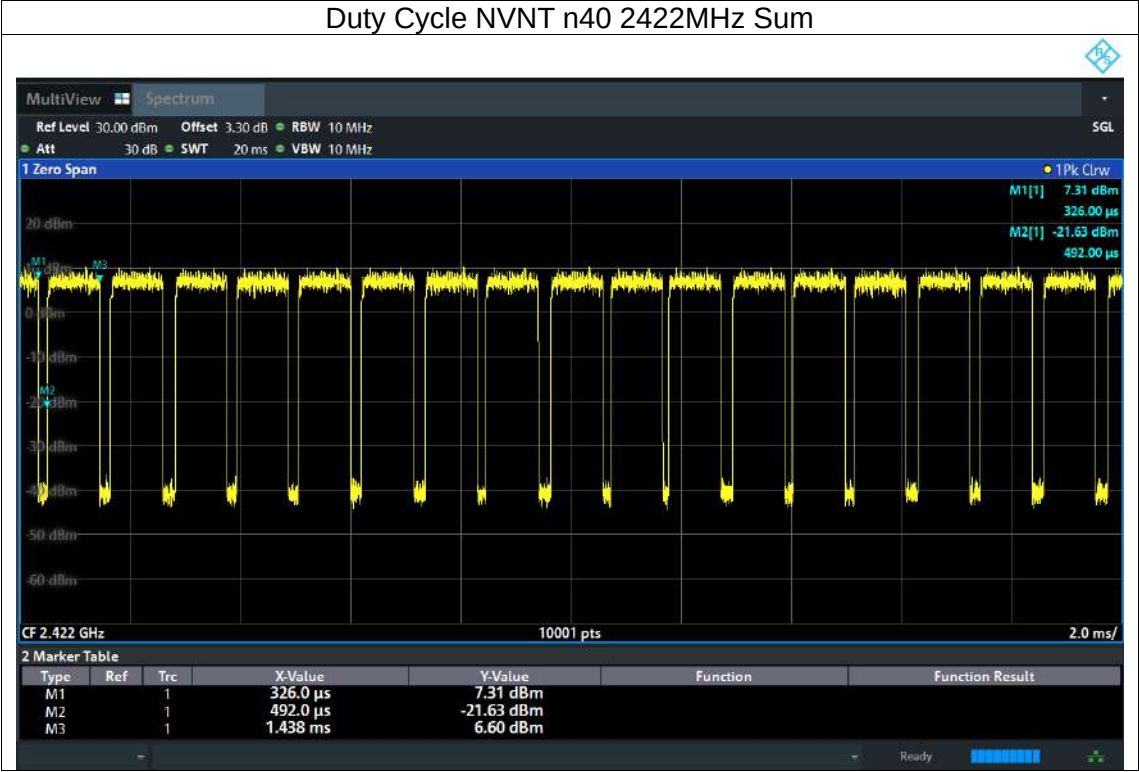
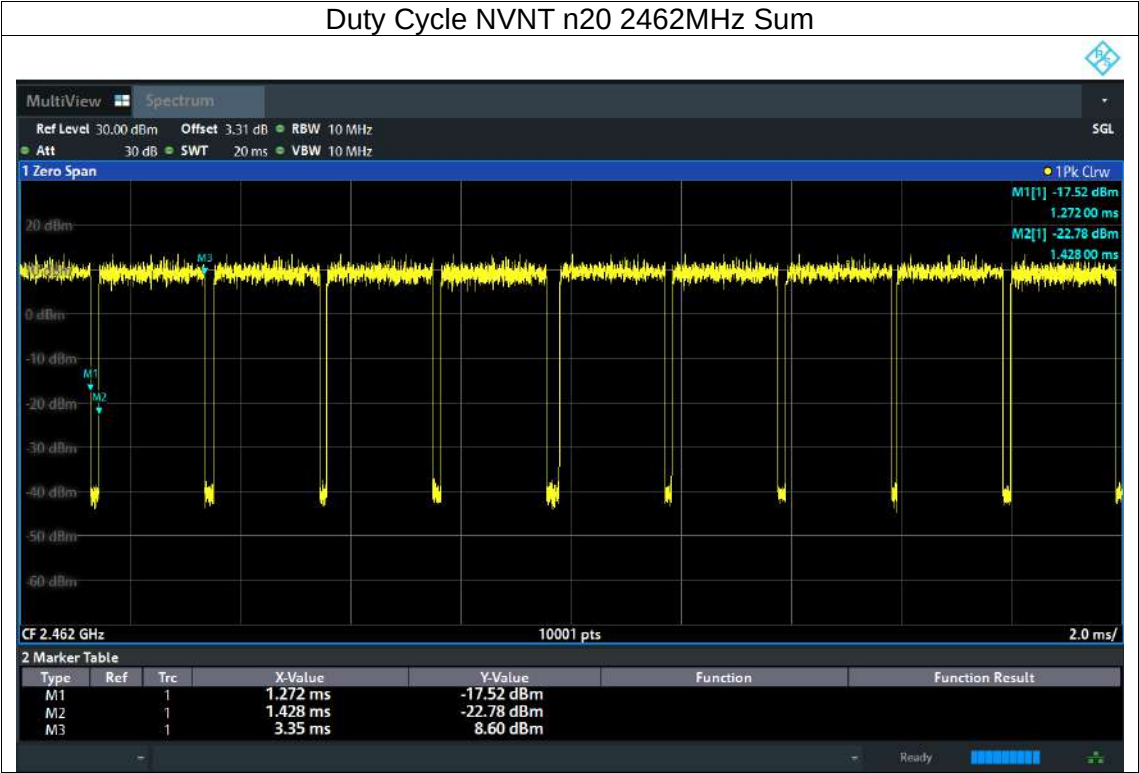


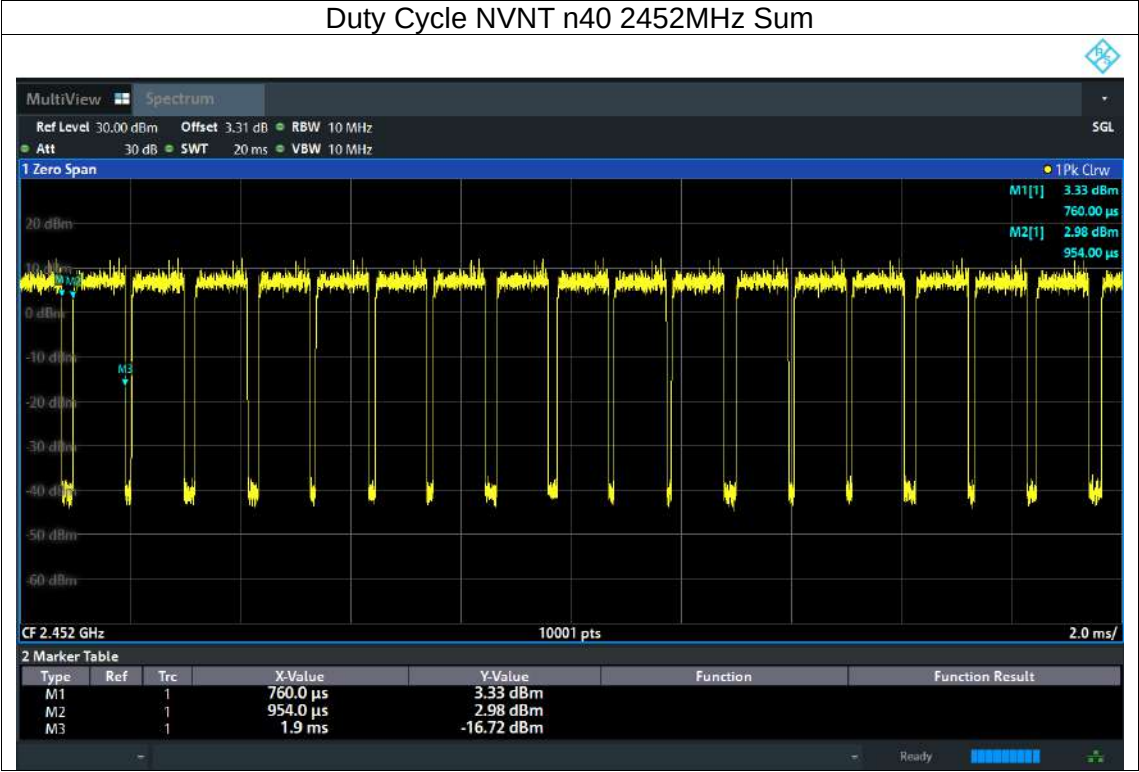
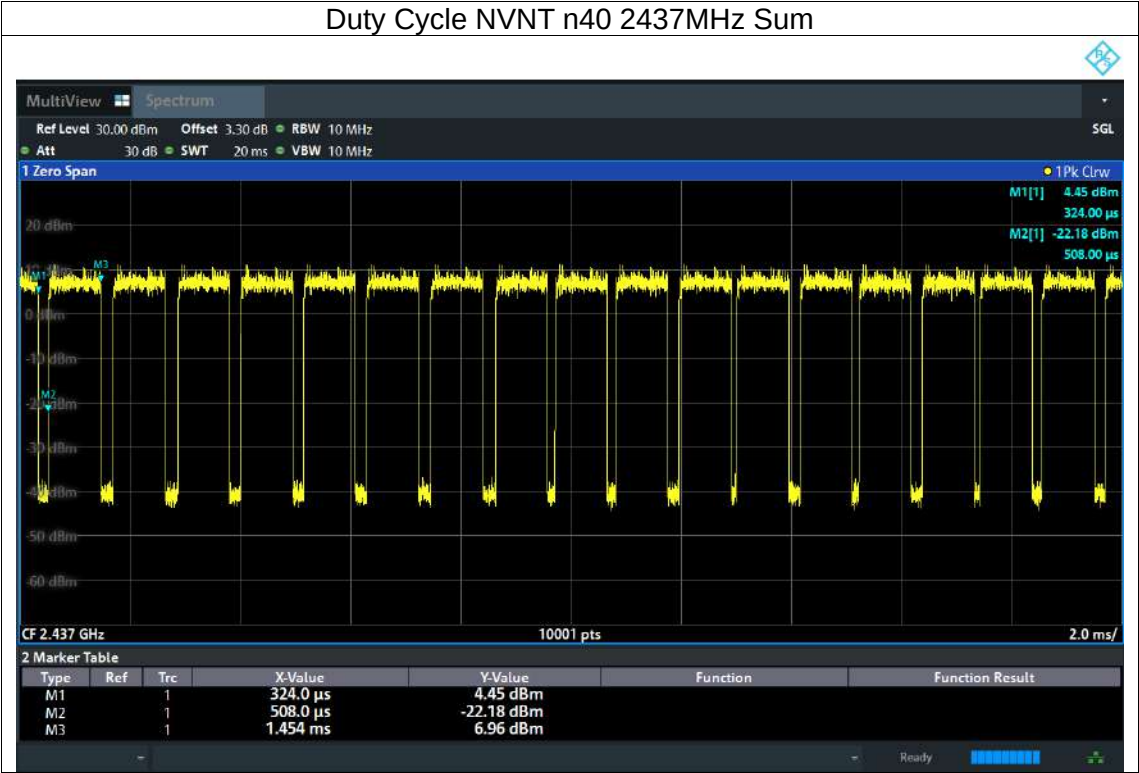












5.8 Conducted Band Edge

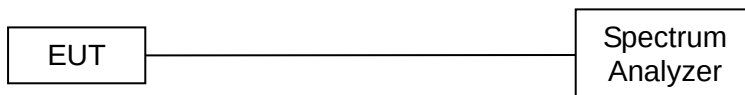
5.8.1 Limit

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. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

5.8.2 Test Procedure

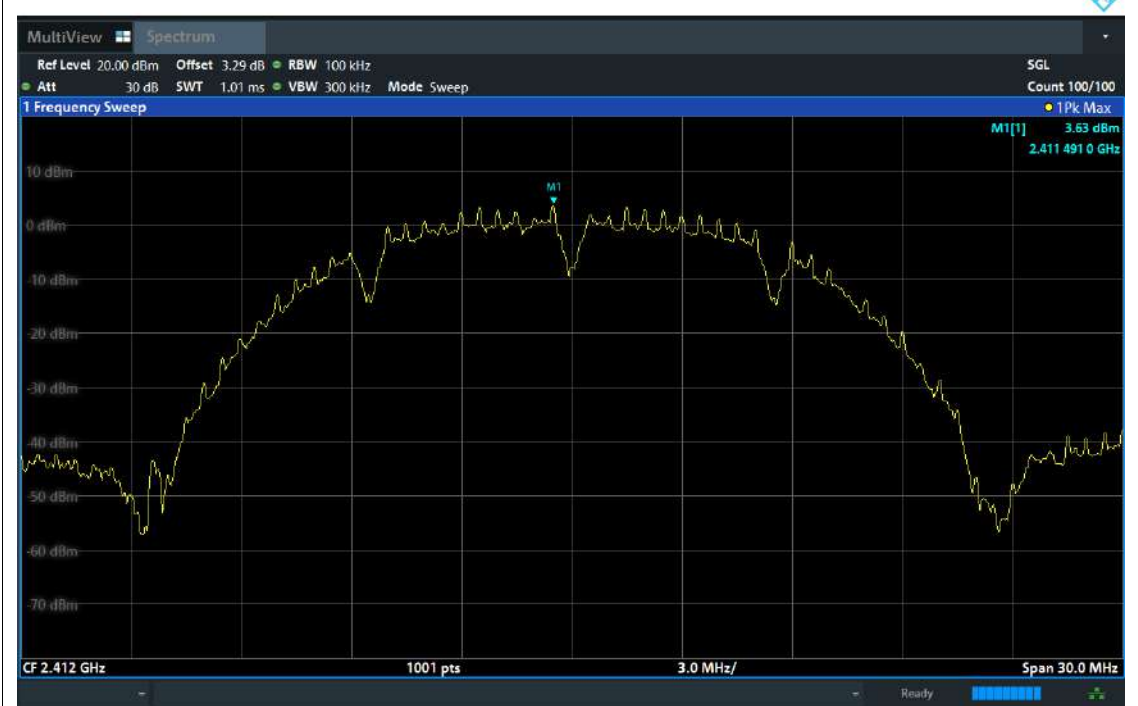
- a) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- b) Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- c) 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.
- d) 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.
- e) Repeat above procedures until all measured frequencies were complete.

5.8.3 Test Setup

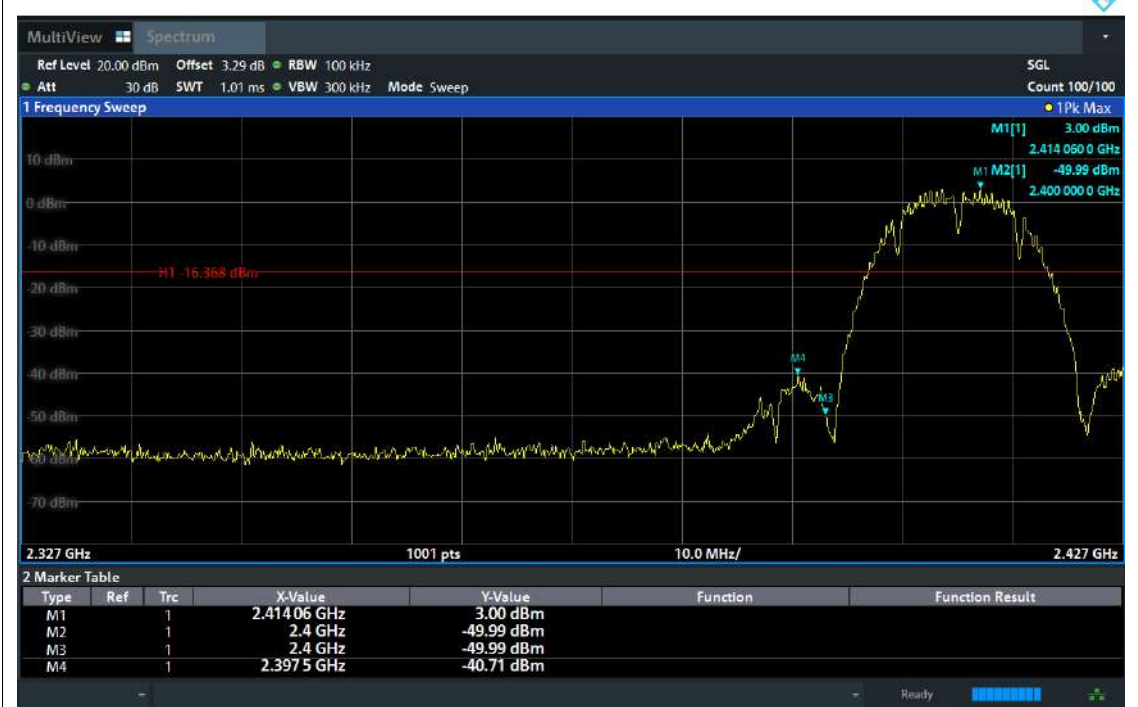


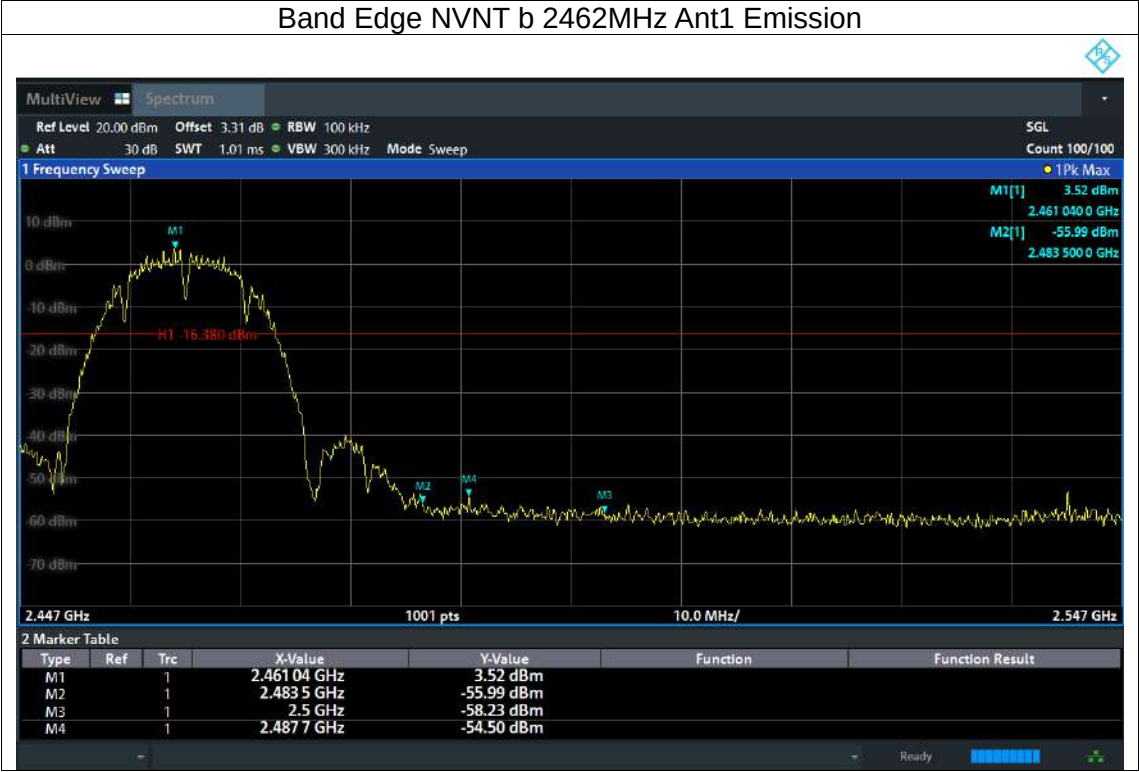
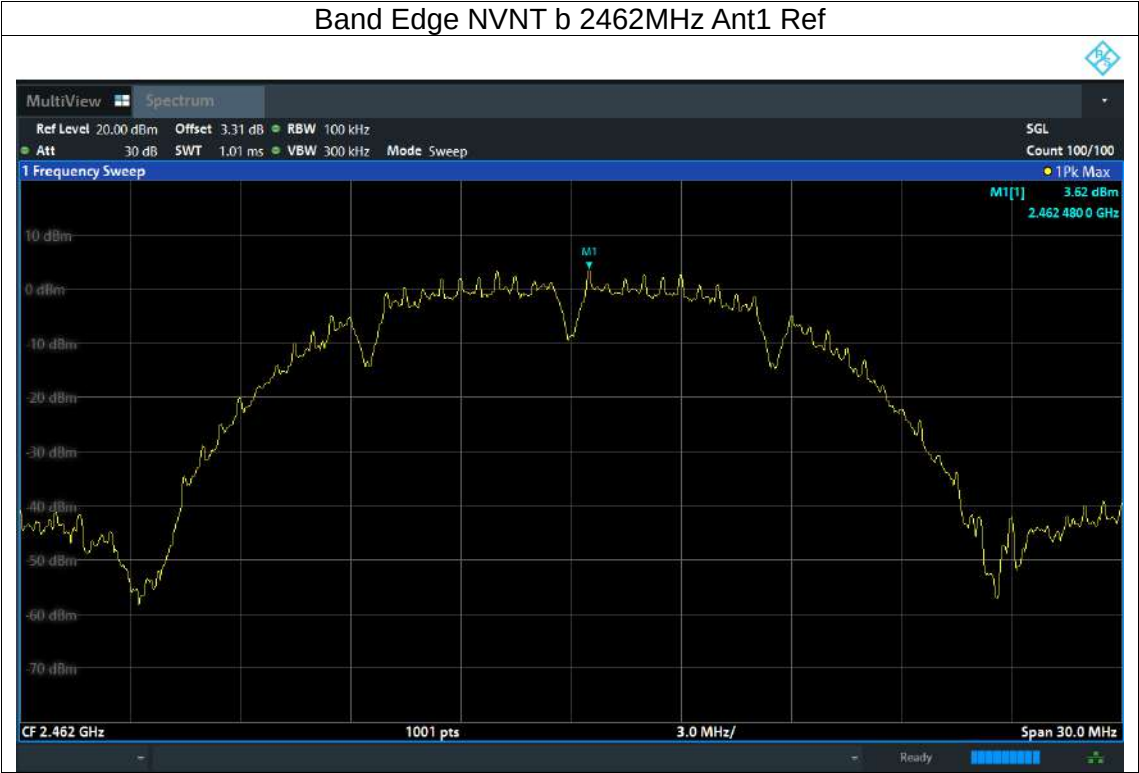
5.8.4 Test Results

Band Edge NVNT b 2412MHz Ant1 Ref

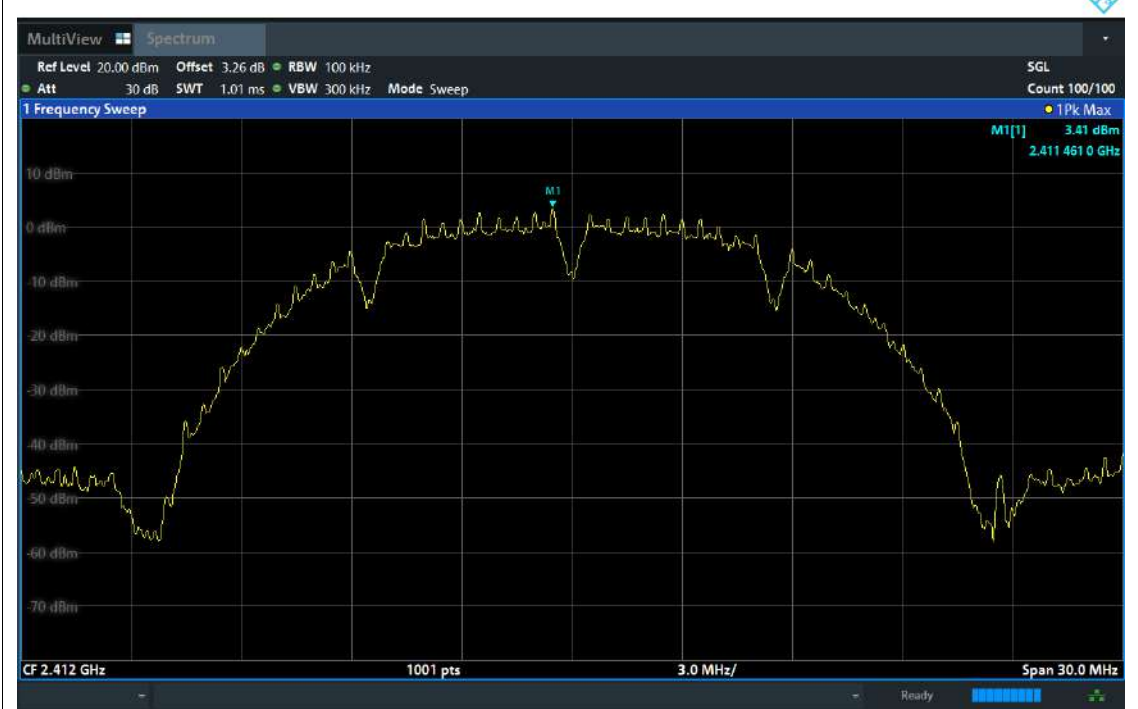


Band Edge NVNT b 2412MHz Ant1 Emission

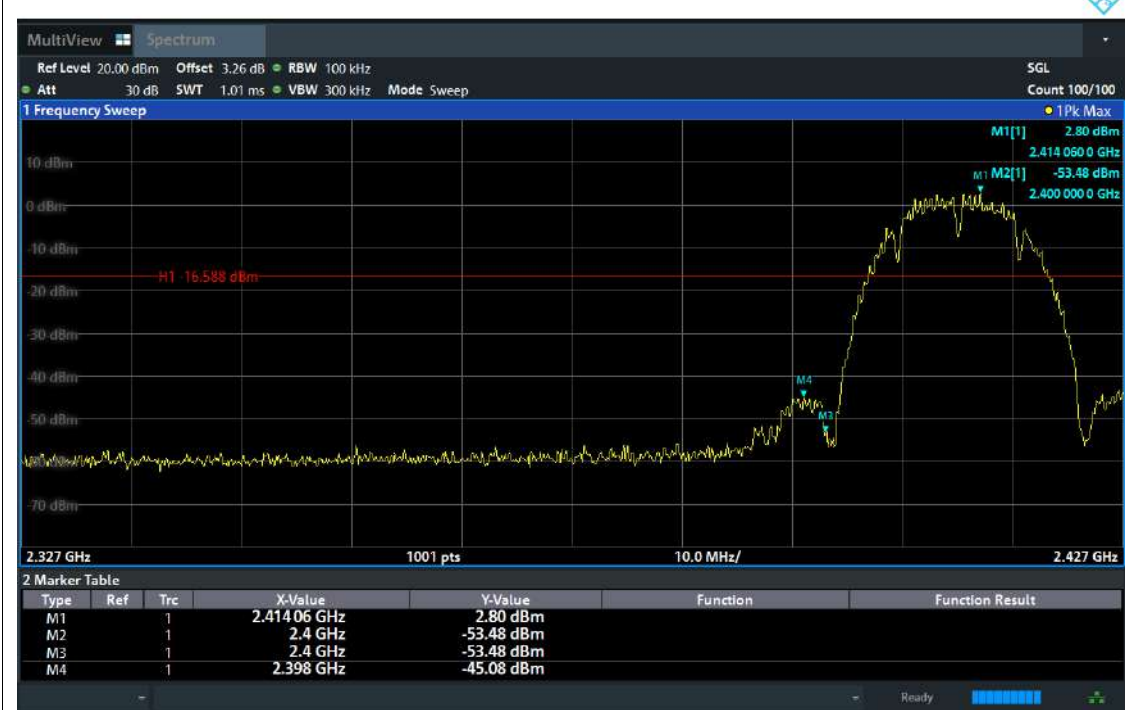


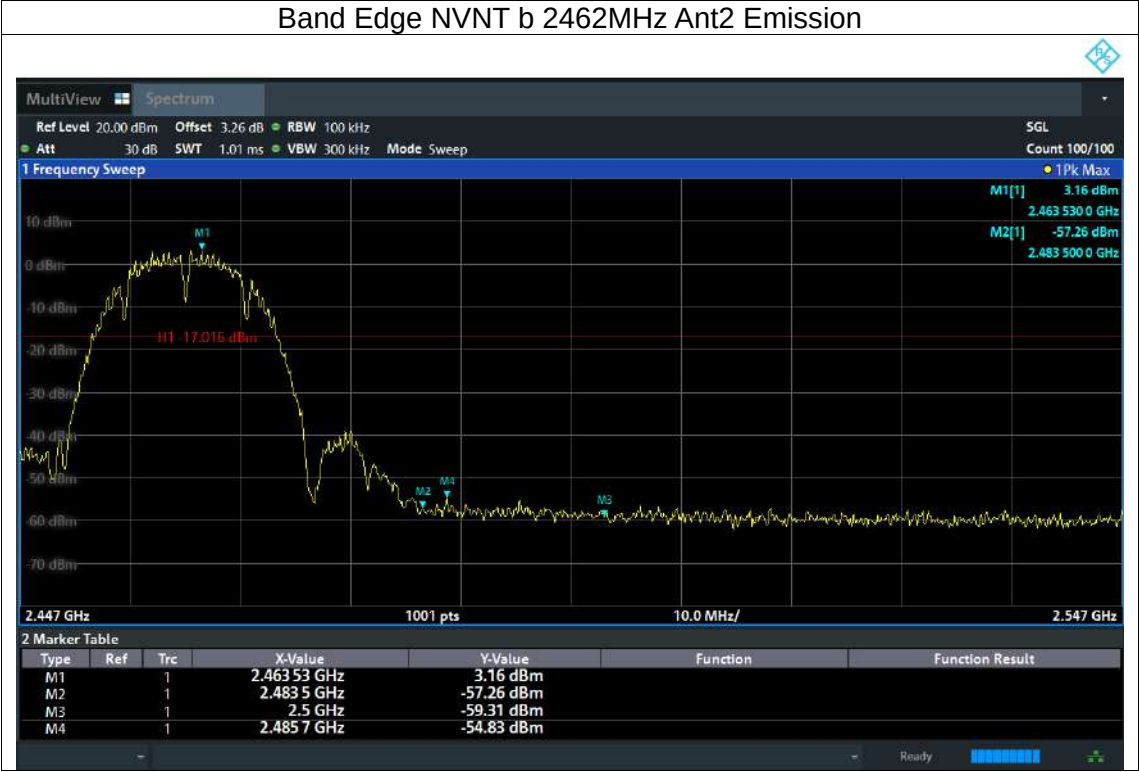
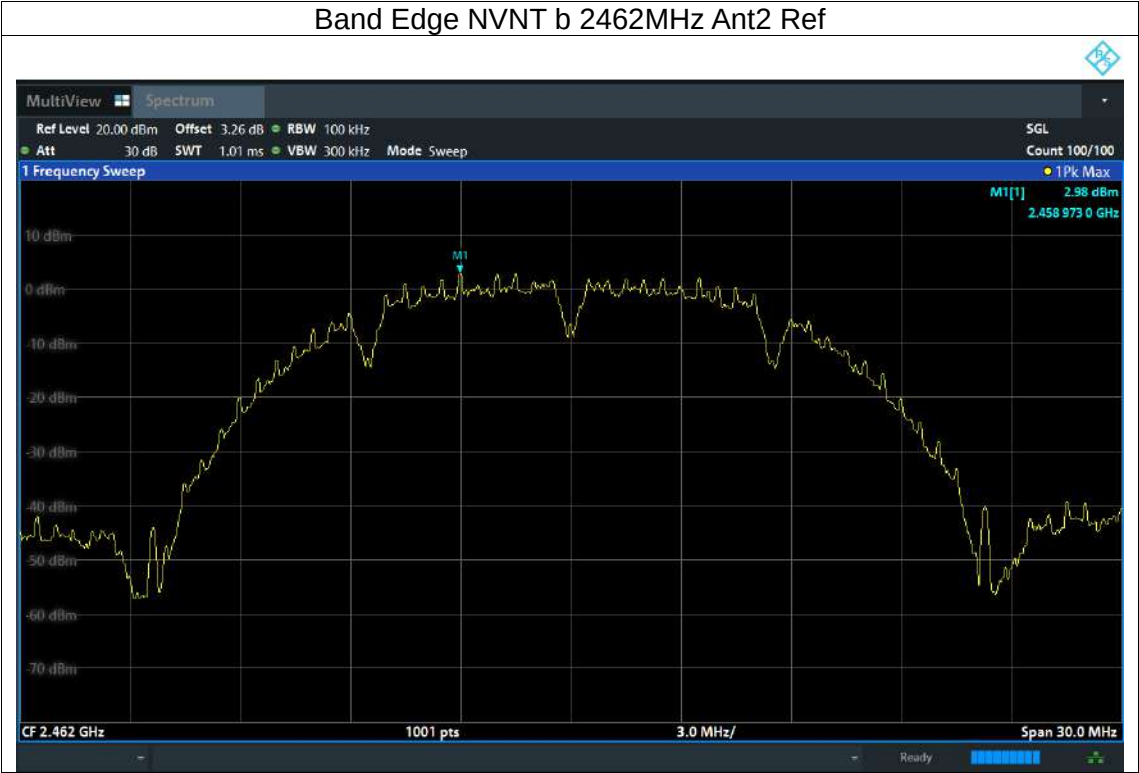


Band Edge NVNT b 2412MHz Ant2 Ref

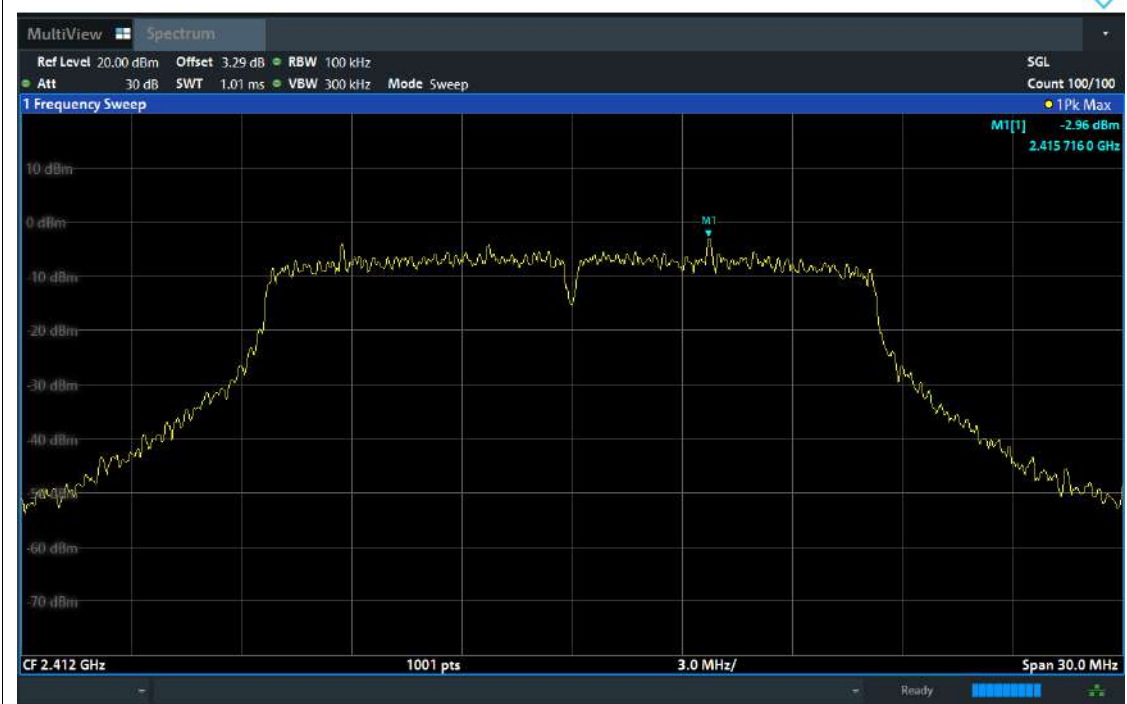


Band Edge NVNT b 2412MHz Ant2 Emission

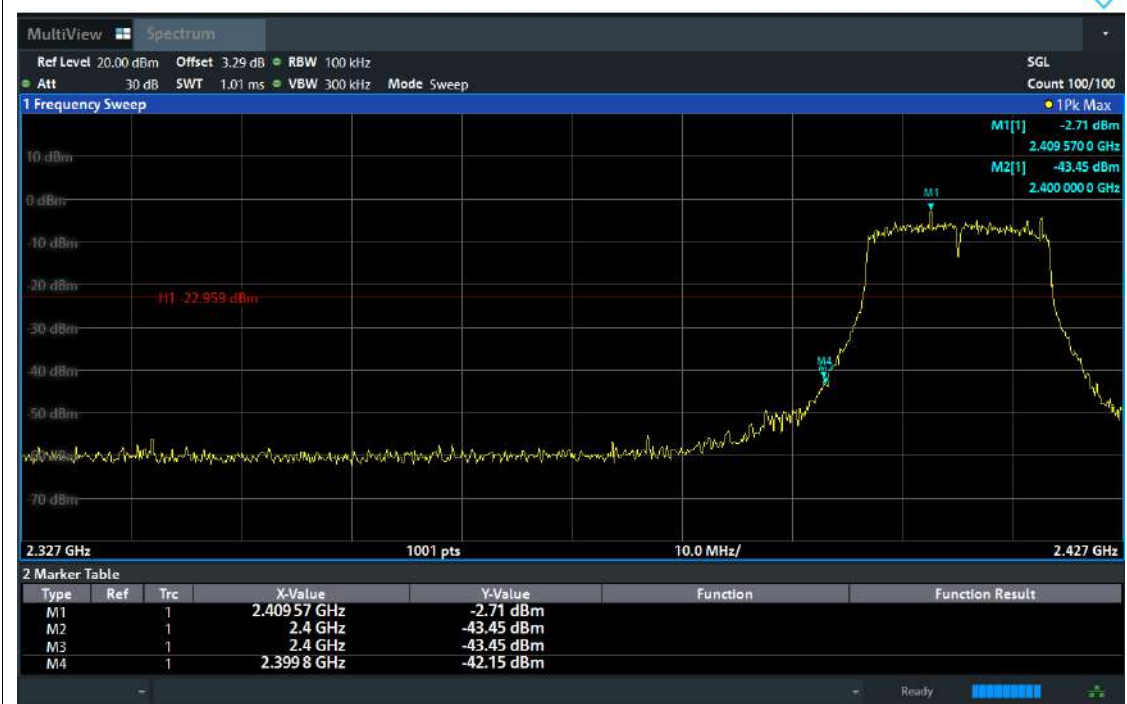


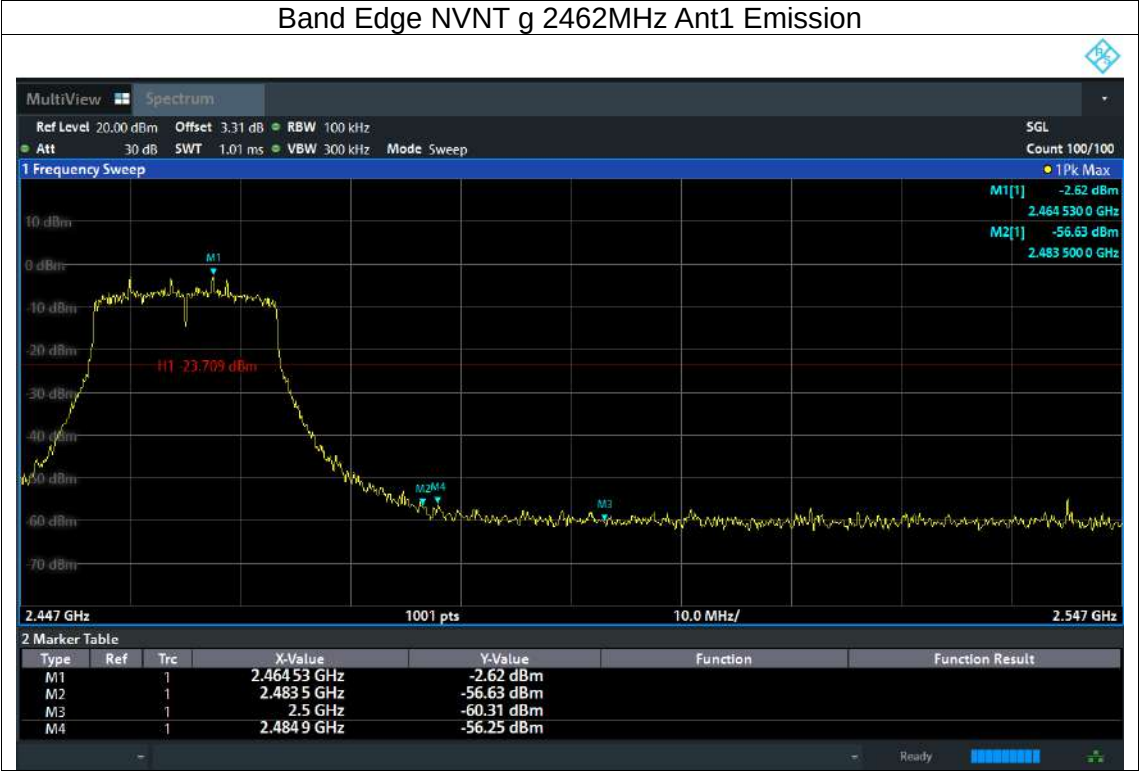
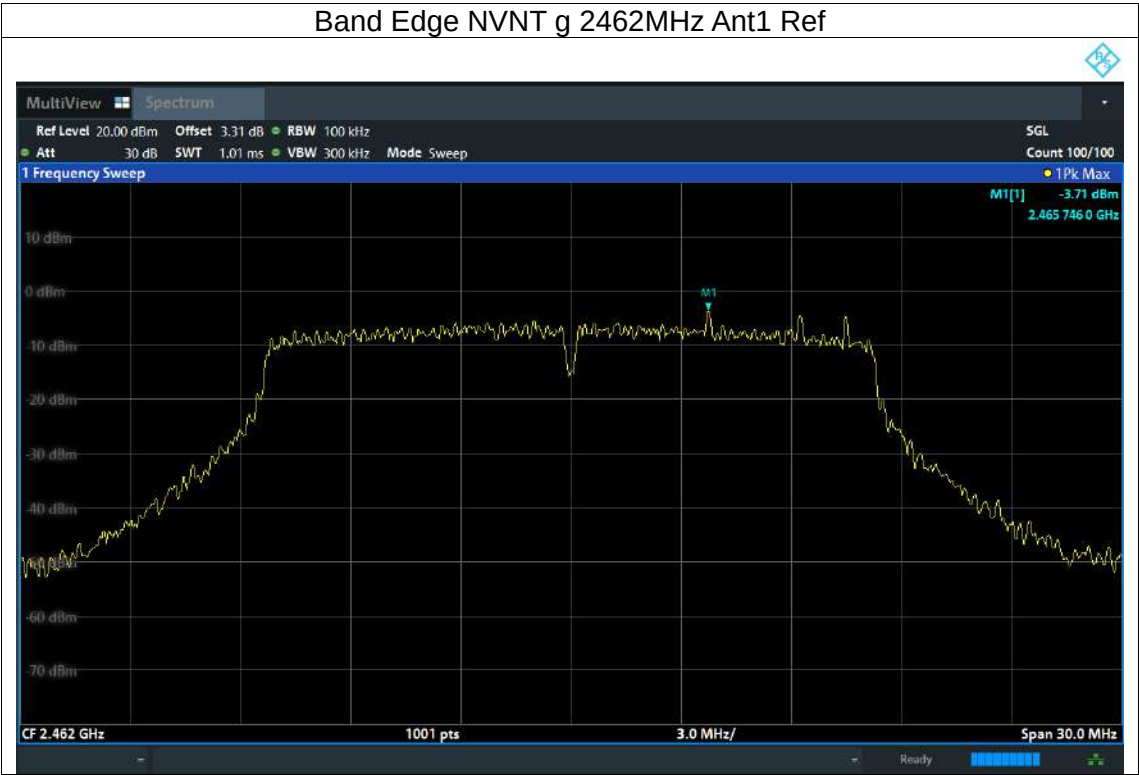


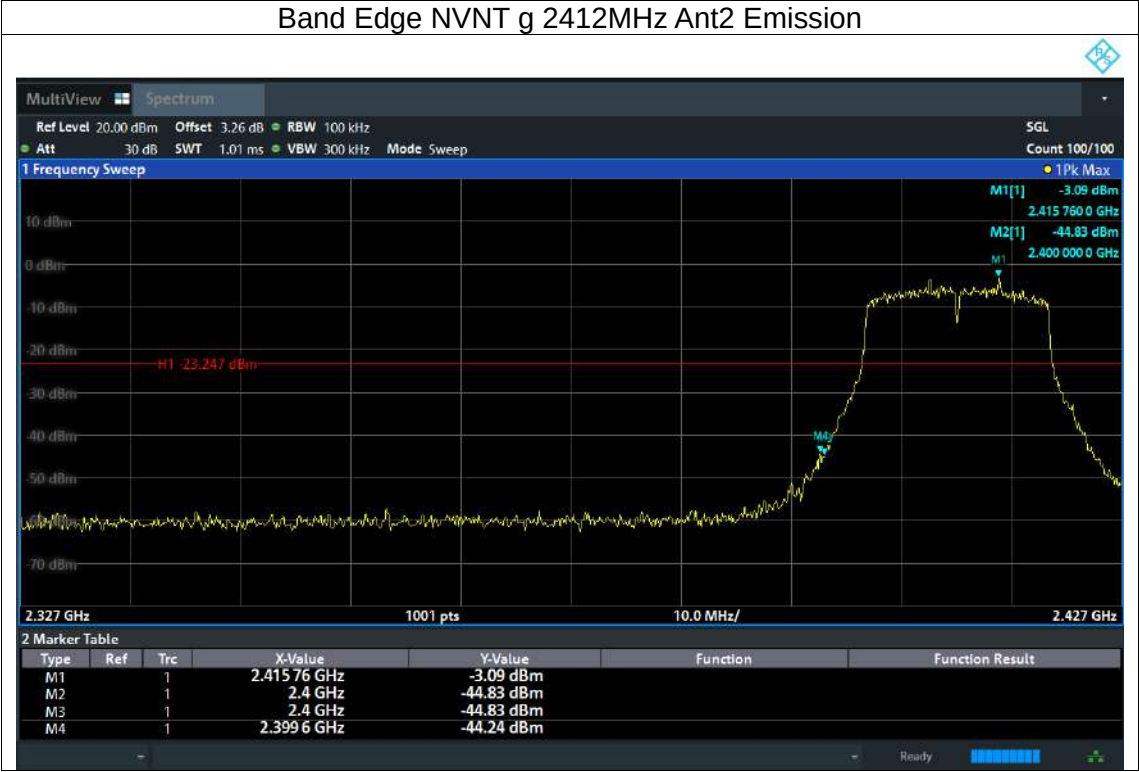
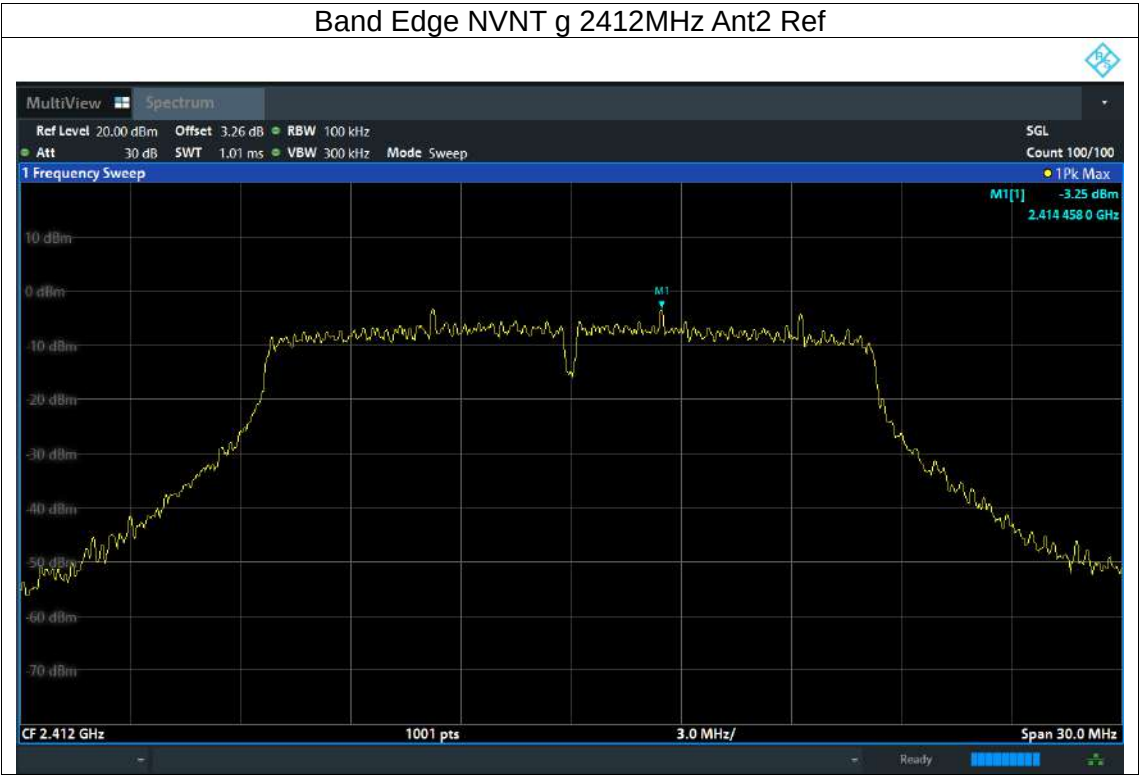
Band Edge NVNT g 2412MHz Ant1 Ref



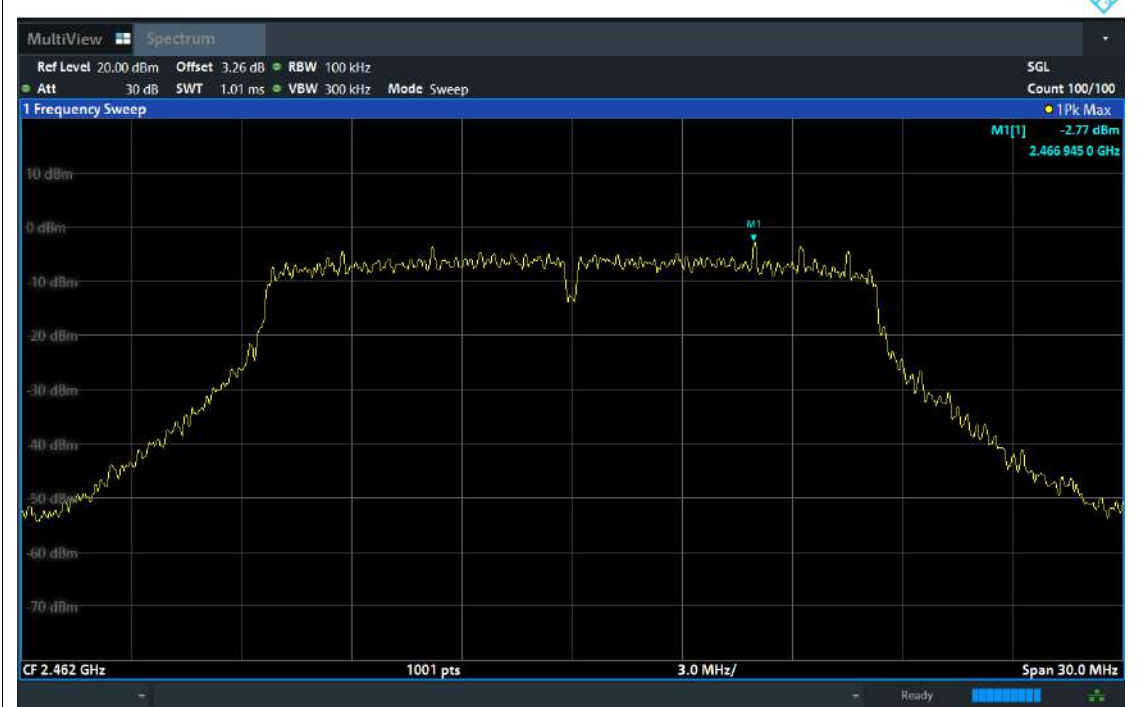
Band Edge NVNT g 2412MHz Ant1 Emission



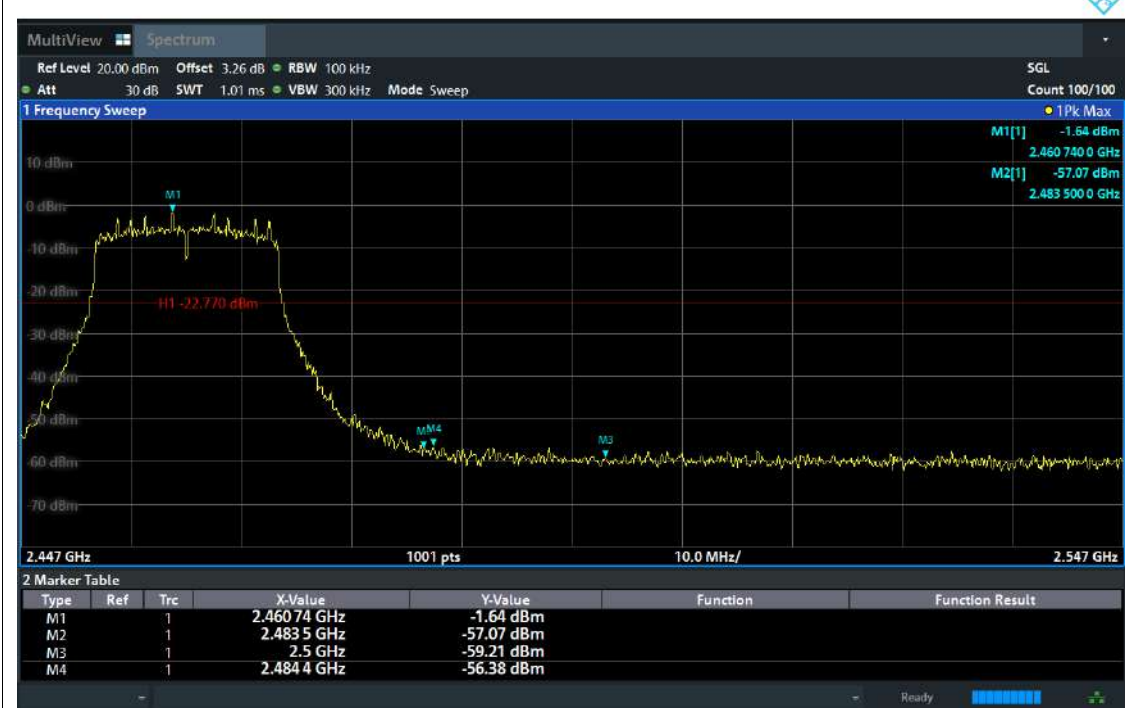


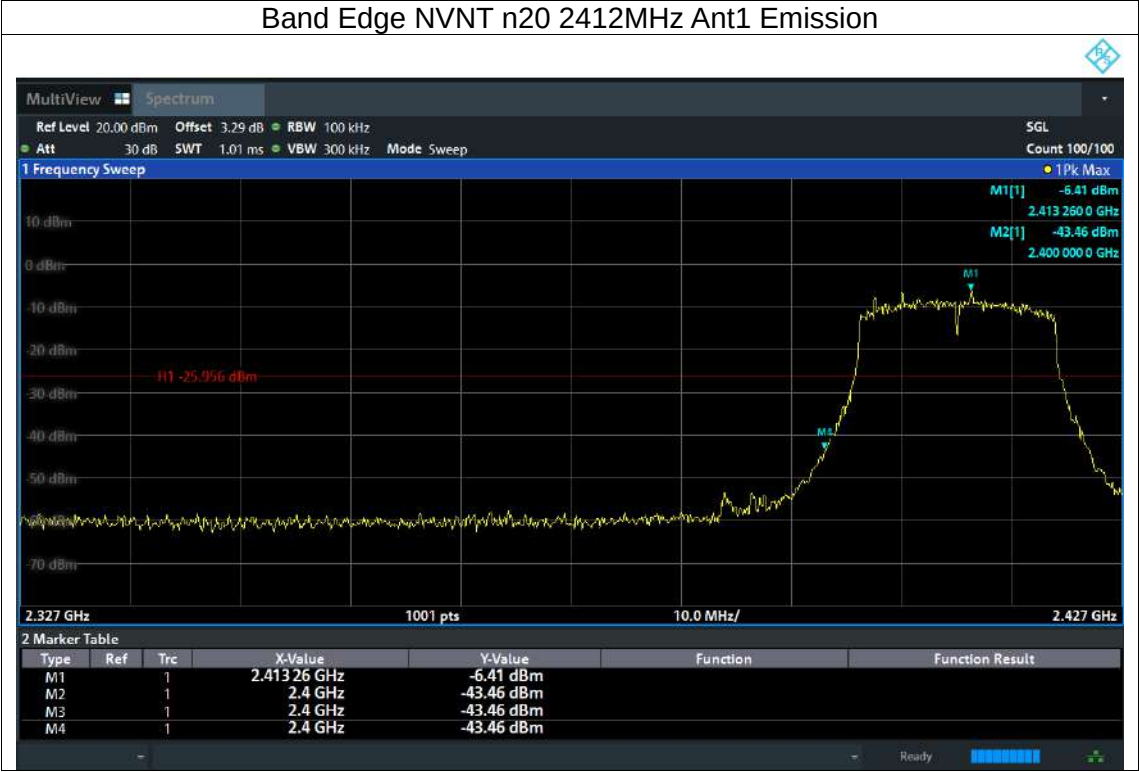
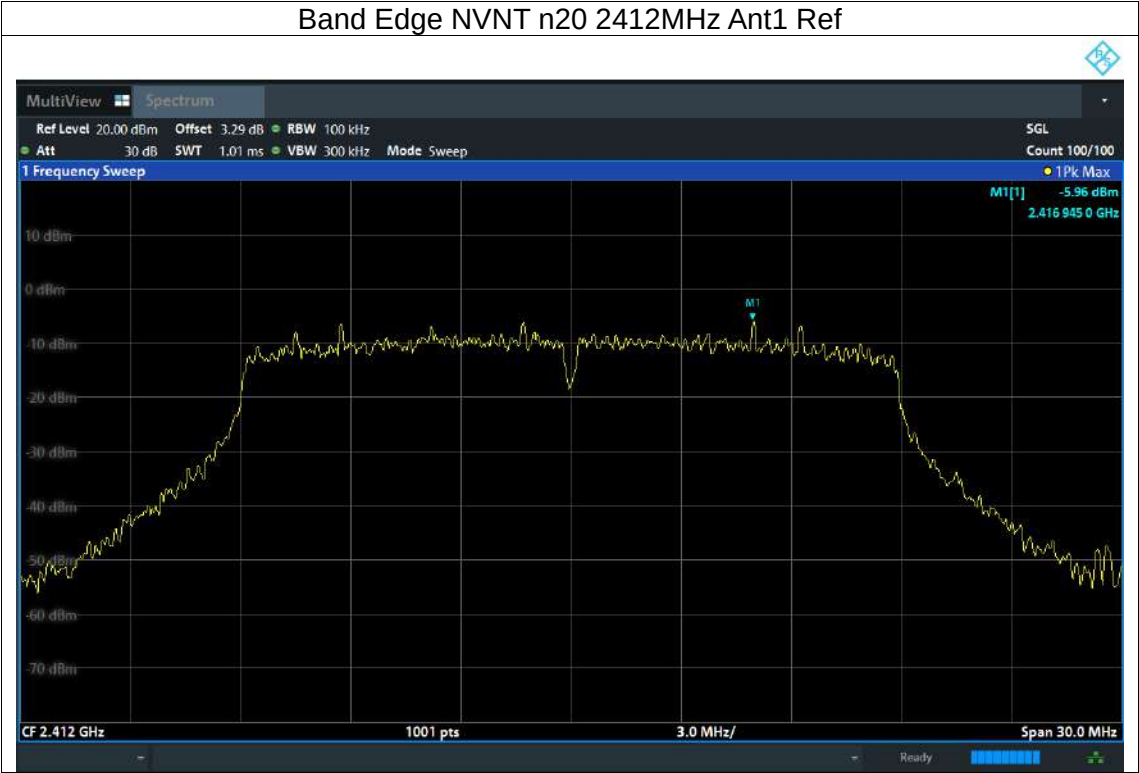


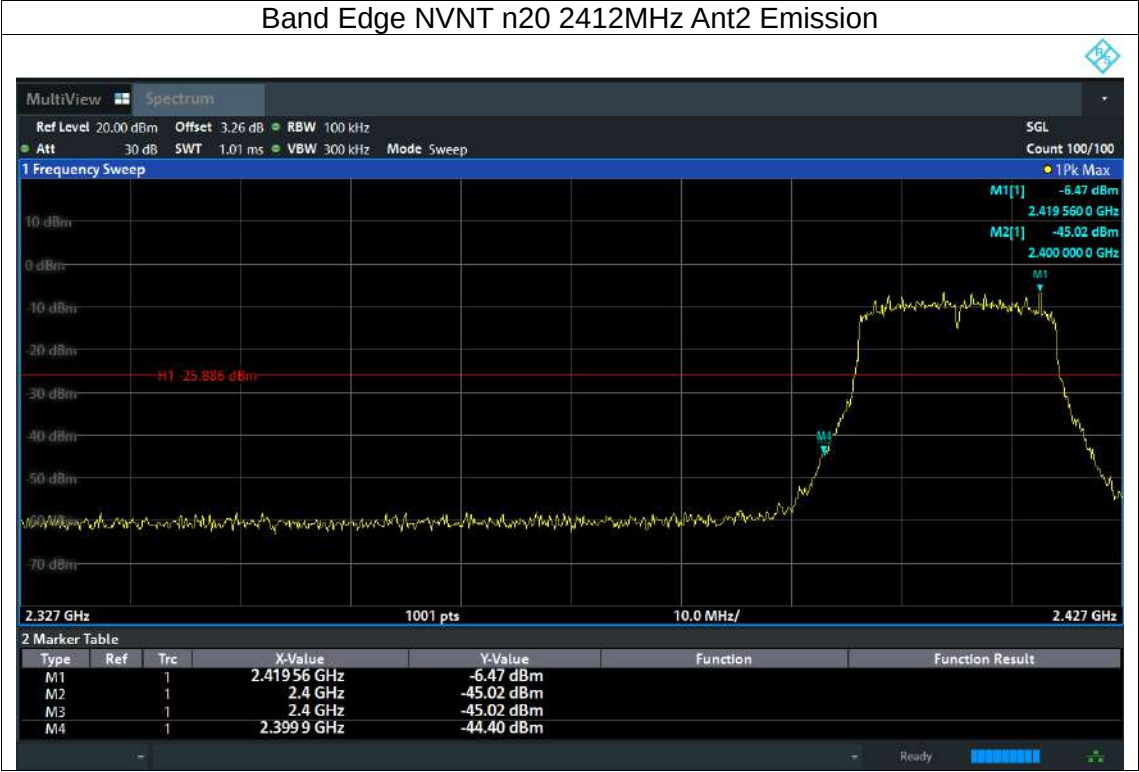
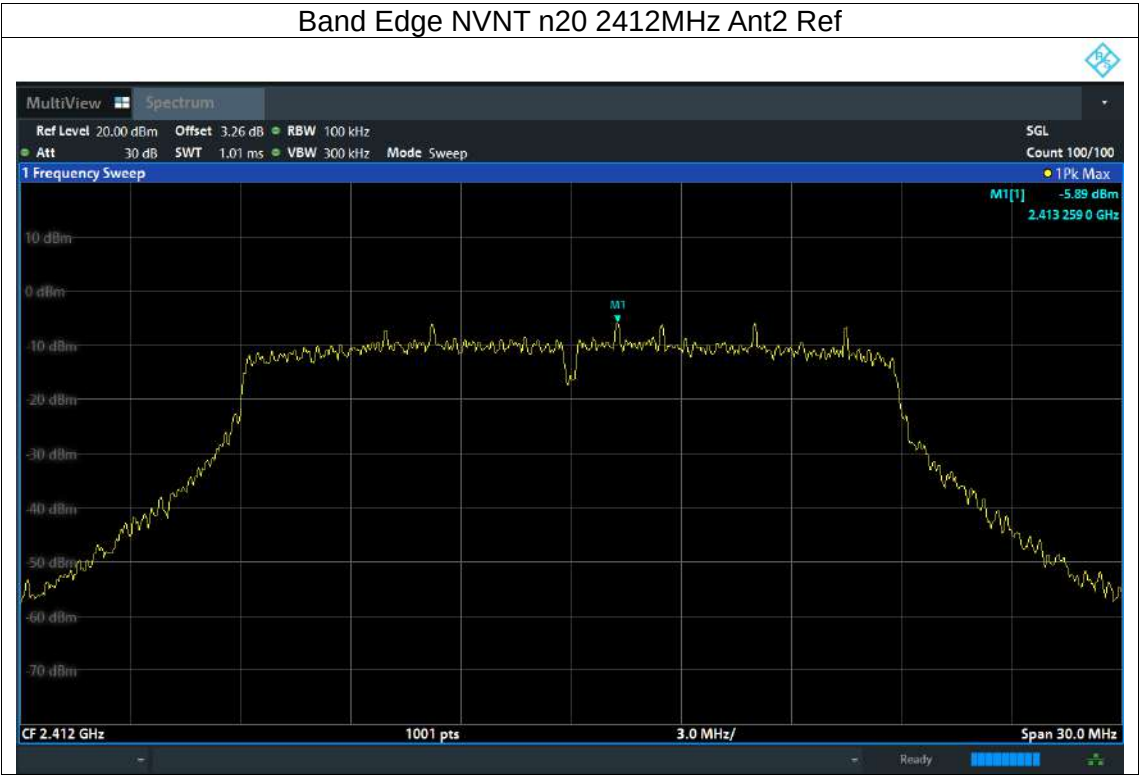
Band Edge NVNT g 2462MHz Ant2 Ref

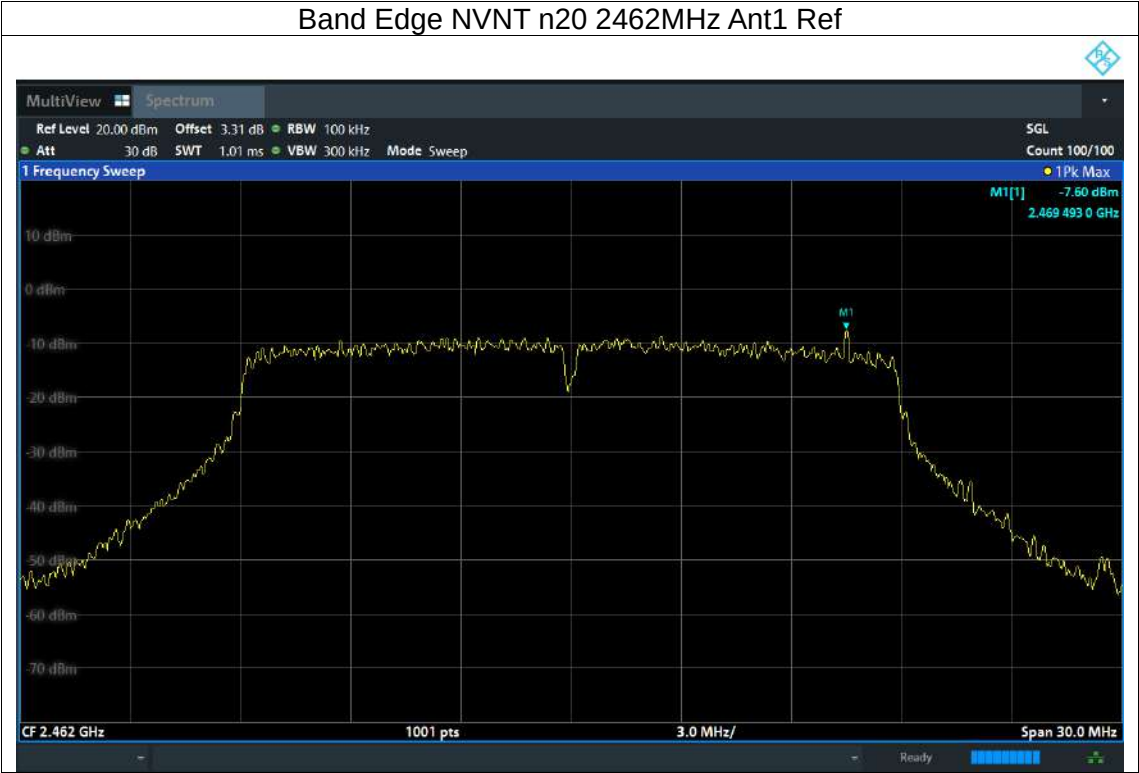


Band Edge NVNT g 2462MHz Ant2 Emission

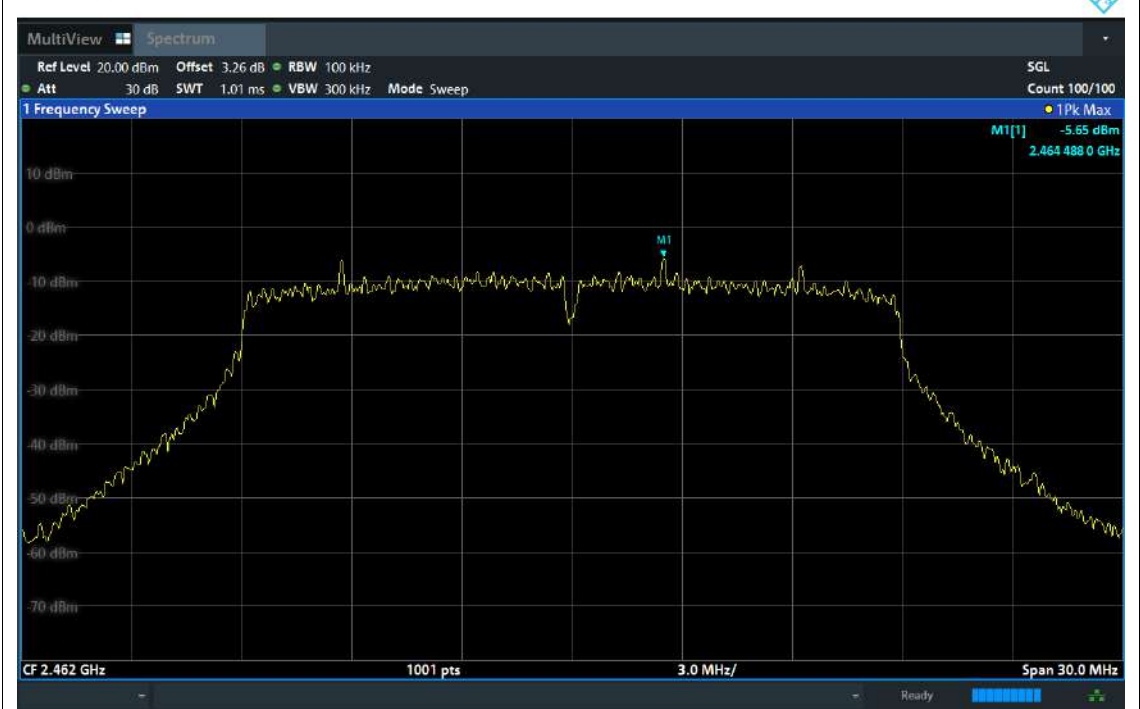




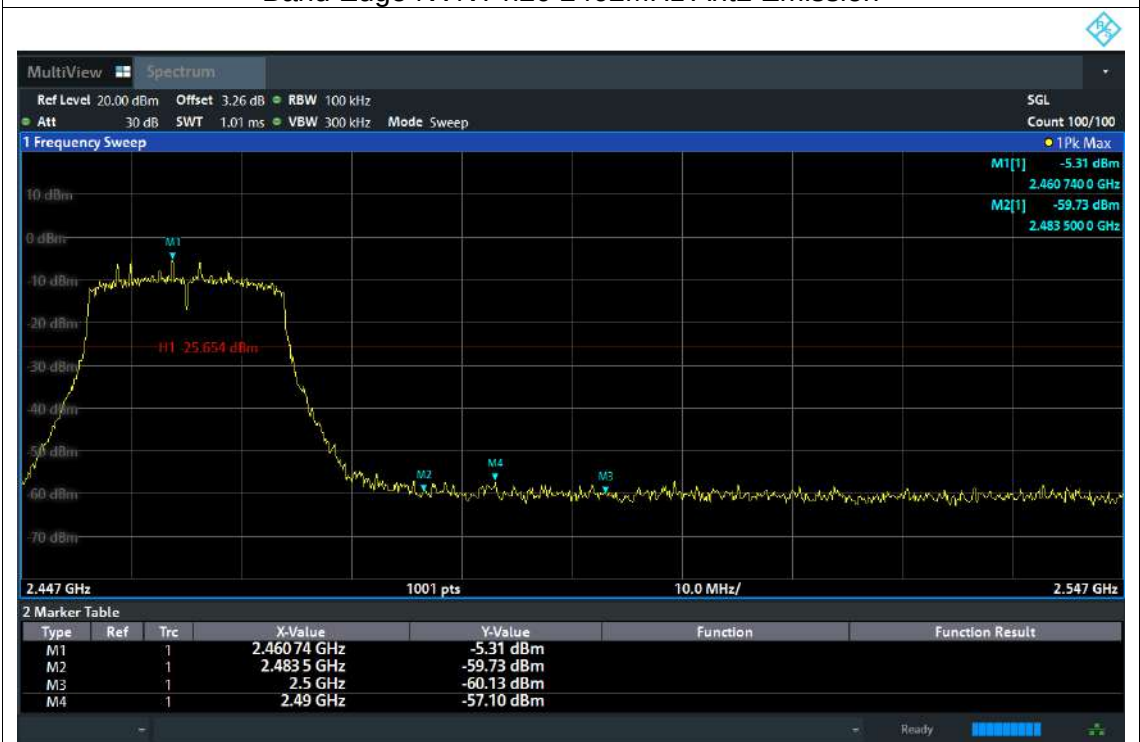




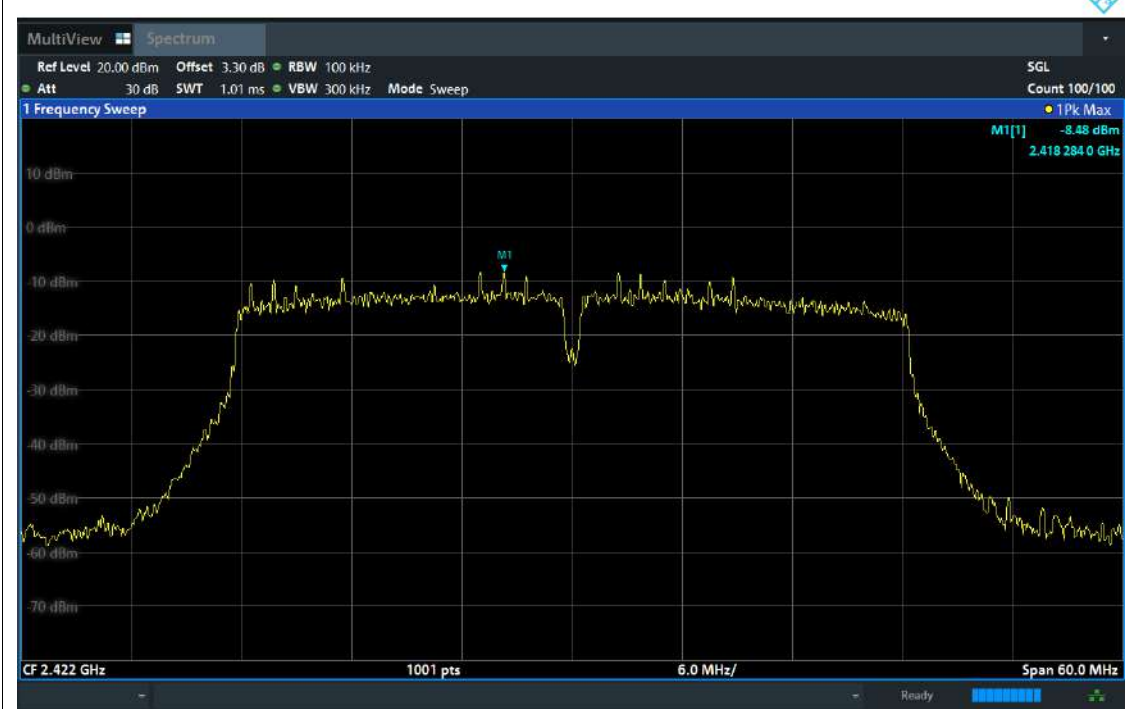
Band Edge NVNT n20 2462MHz Ant2 Ref



Band Edge NVNT n20 2462MHz Ant2 Emission



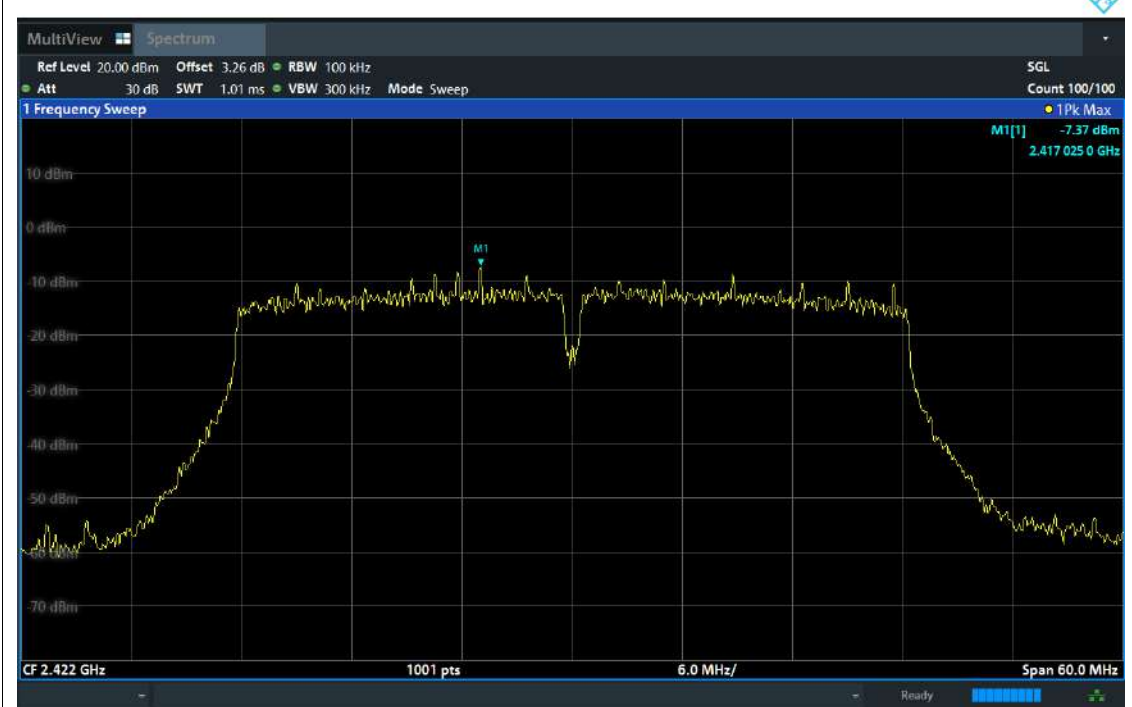
Band Edge NVNT n40 2422MHz Ant1 Ref



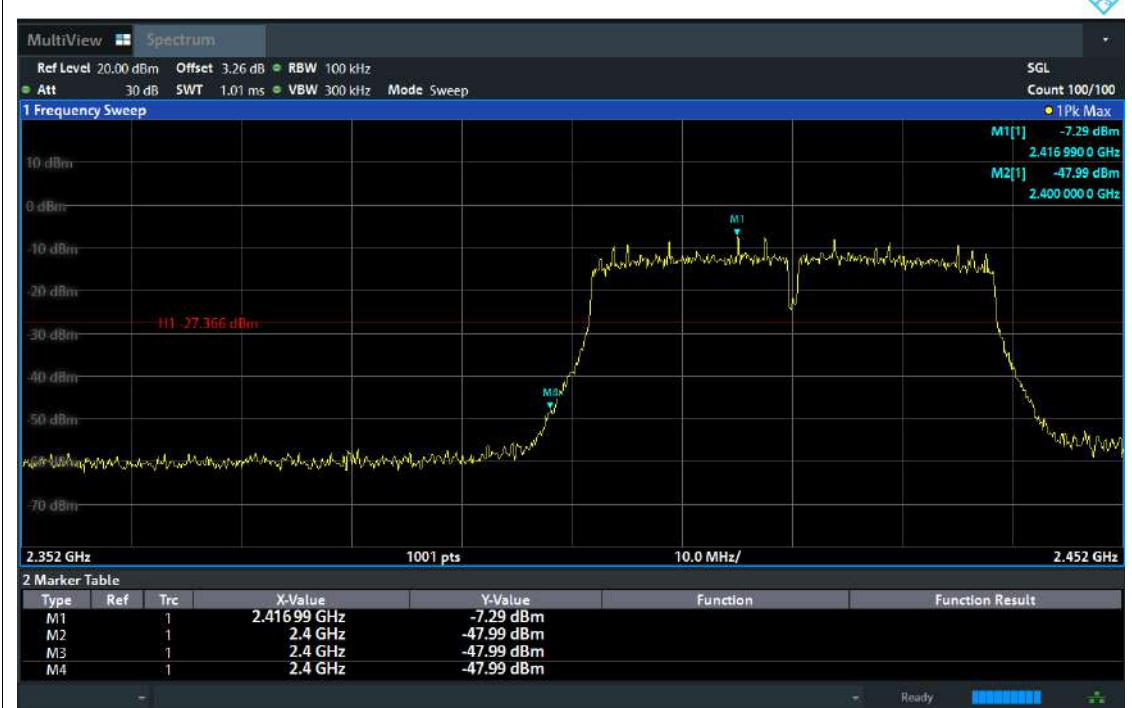
Band Edge NVNT n40 2422MHz Ant1 Emission

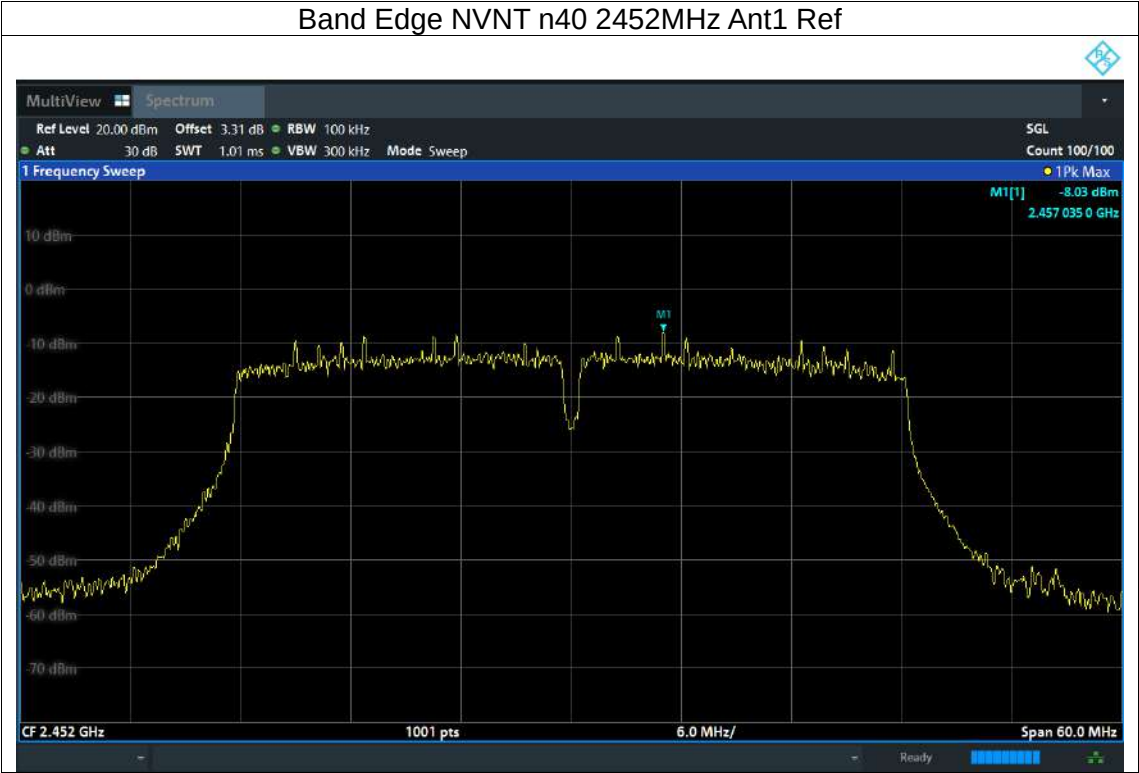


Band Edge NVNT n40 2422MHz Ant2 Ref

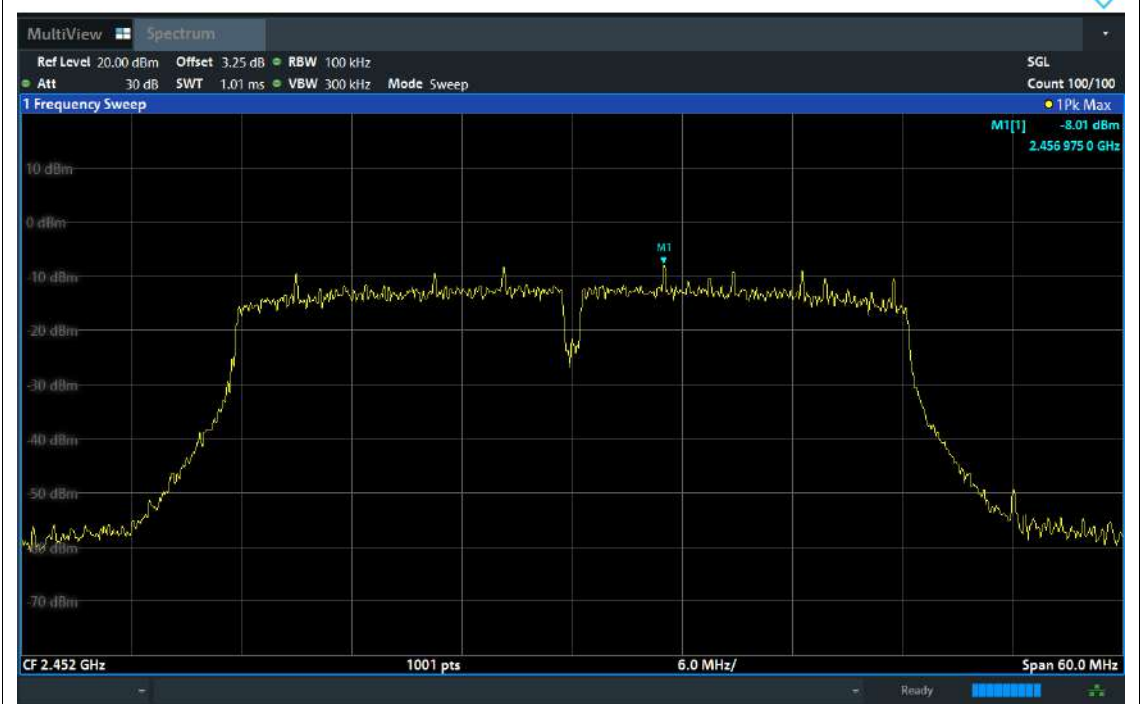


Band Edge NVNT n40 2422MHz Ant2 Emission





Band Edge NVNT n40 2452MHz Ant2 Ref



Band Edge NVNT n40 2452MHz Ant2 Emission



5.9 Spurious RF Conducted Emissions

5.9.1 Limit

Below -20dB of the highest emission level in operating band.

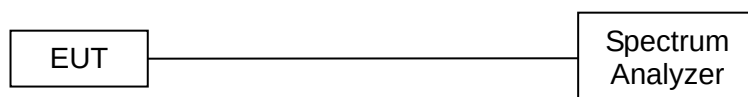
5.9.2 Measuring Instruments

The Measuring equipment is listed in the section 4 of this test report.

5.9.3 Test Procedure

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2020 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 9kHz to 26.5GHz.

5.9.4 Test Setup

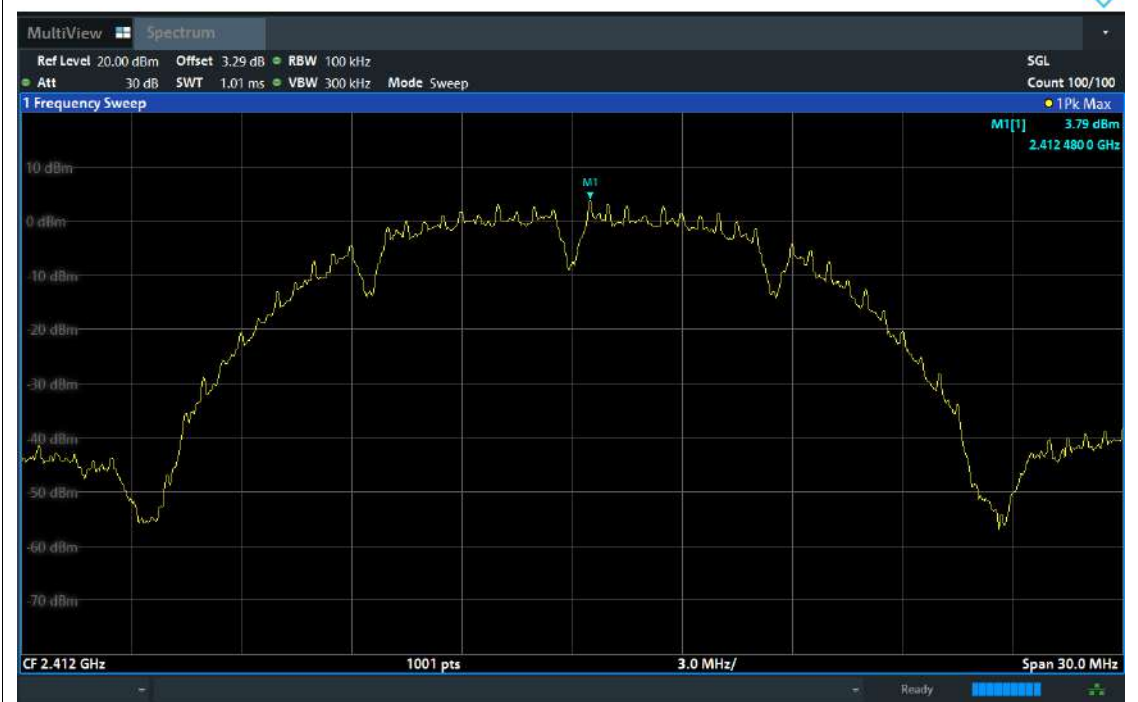


5.9.5 Test Results

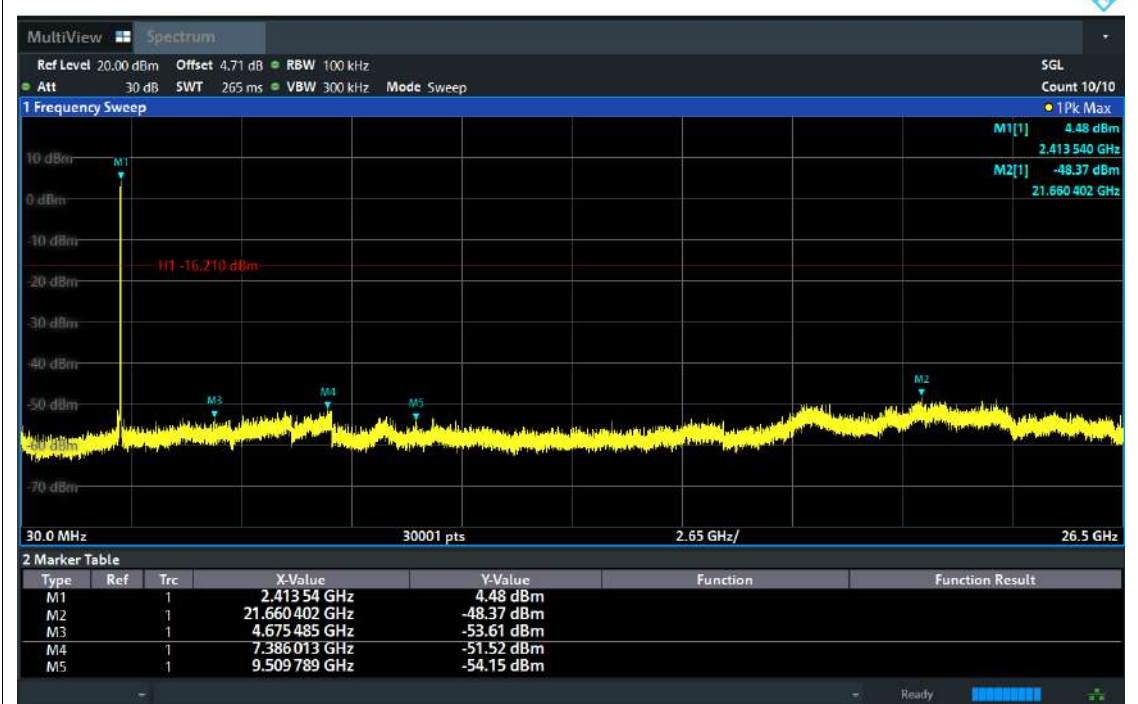
Note:

1: The measurement frequency range is from 9kHz to the 10th harmonic of the fundamental frequency; The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data.

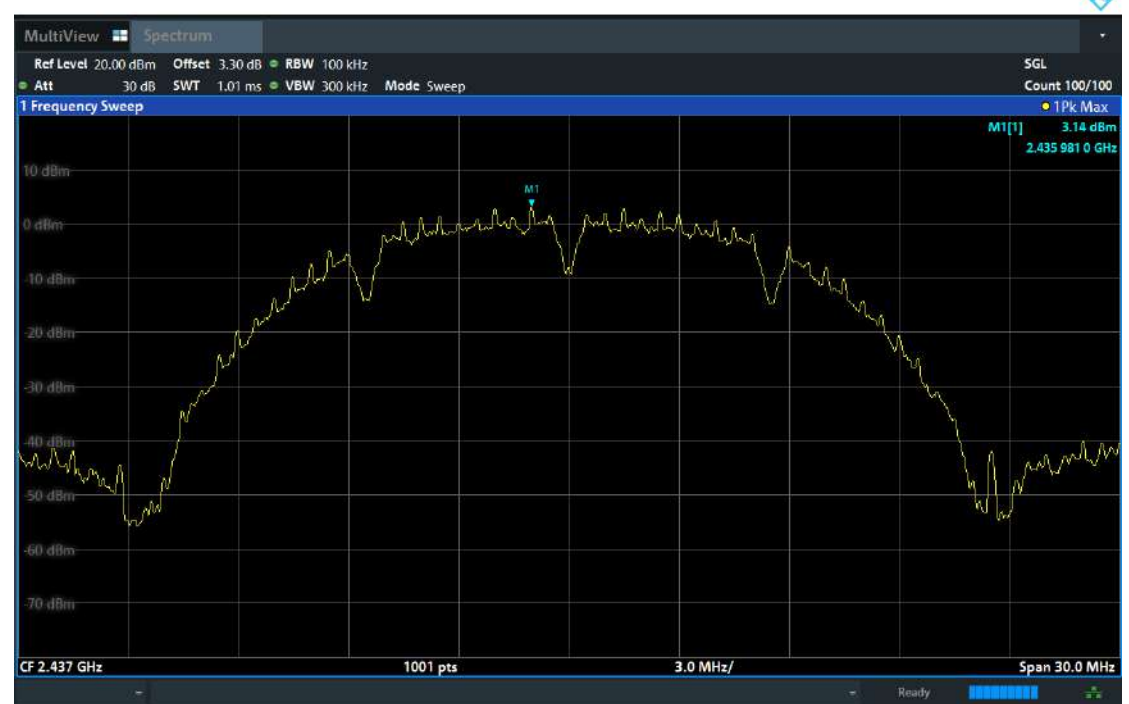
Tx. Spurious NVNT b 2412MHz Ant1 Ref



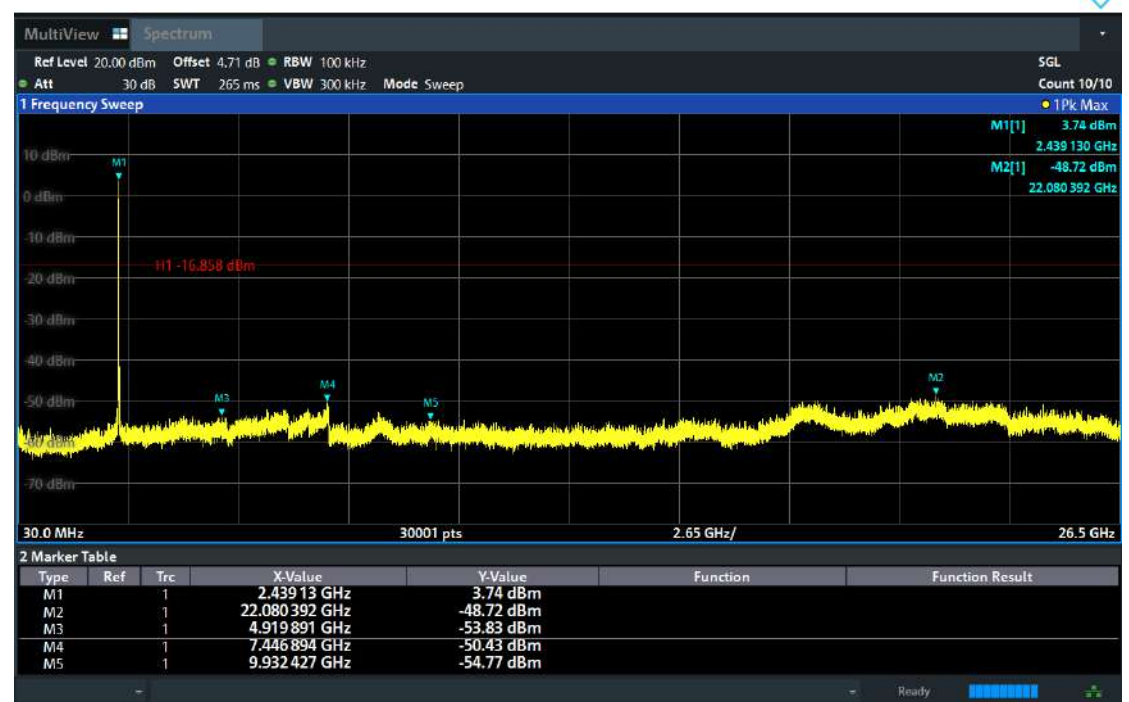
Tx. Spurious NVNT b 2412MHz Ant1 Emission



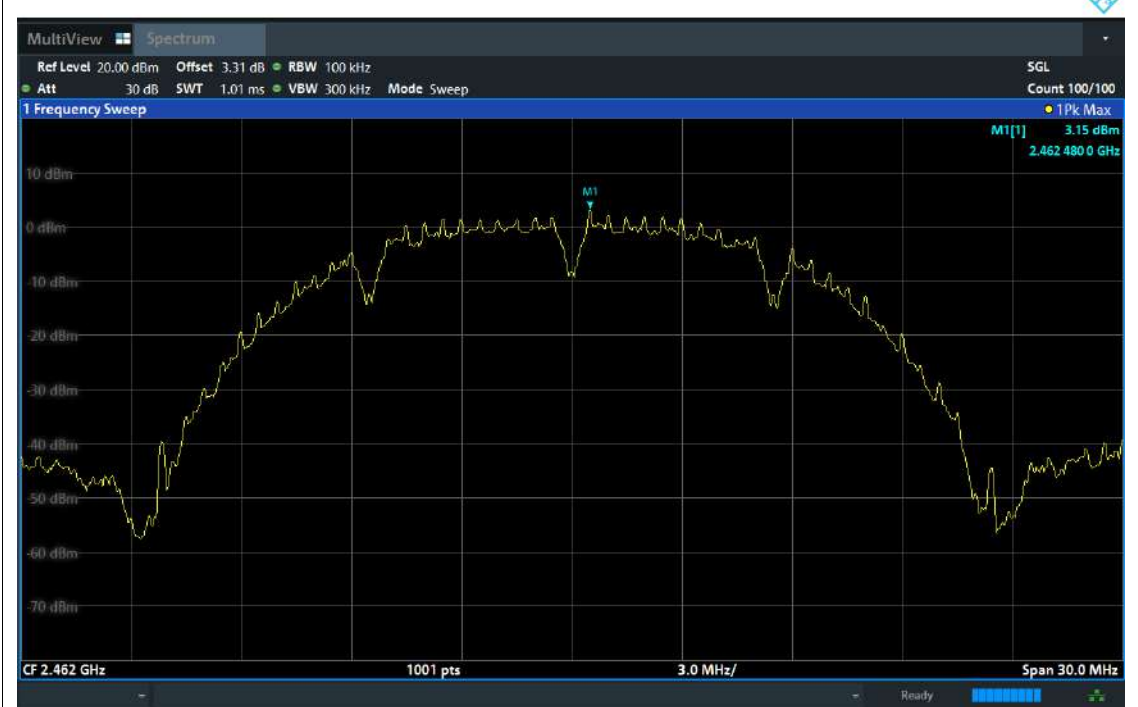
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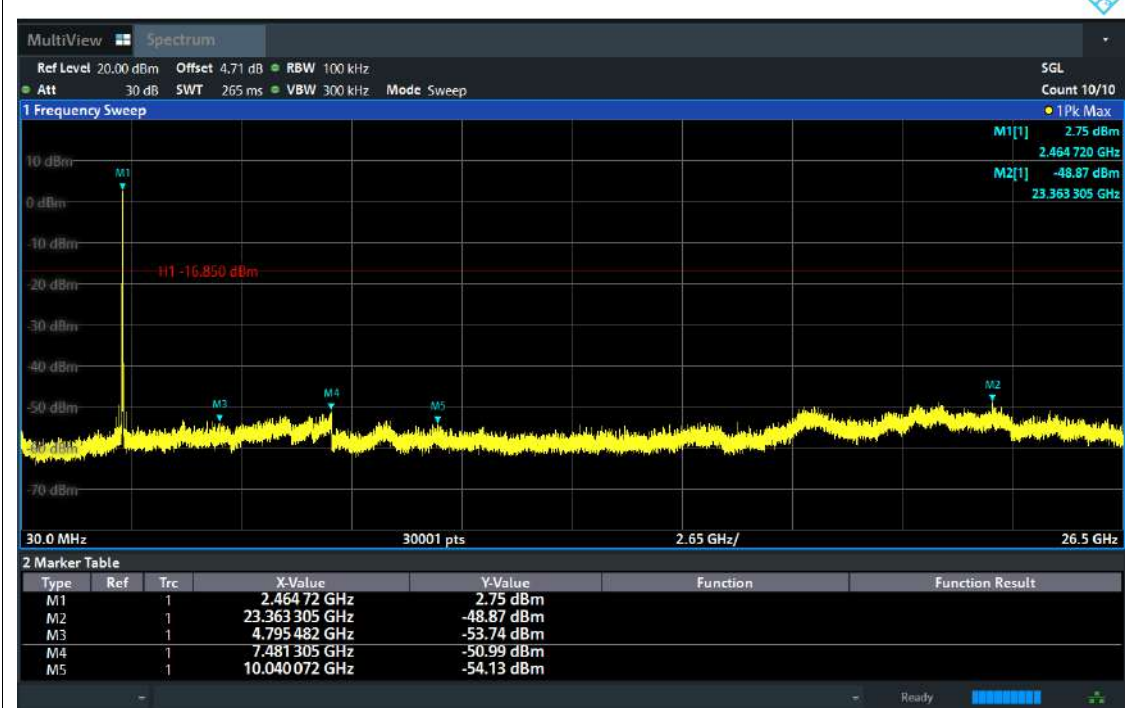
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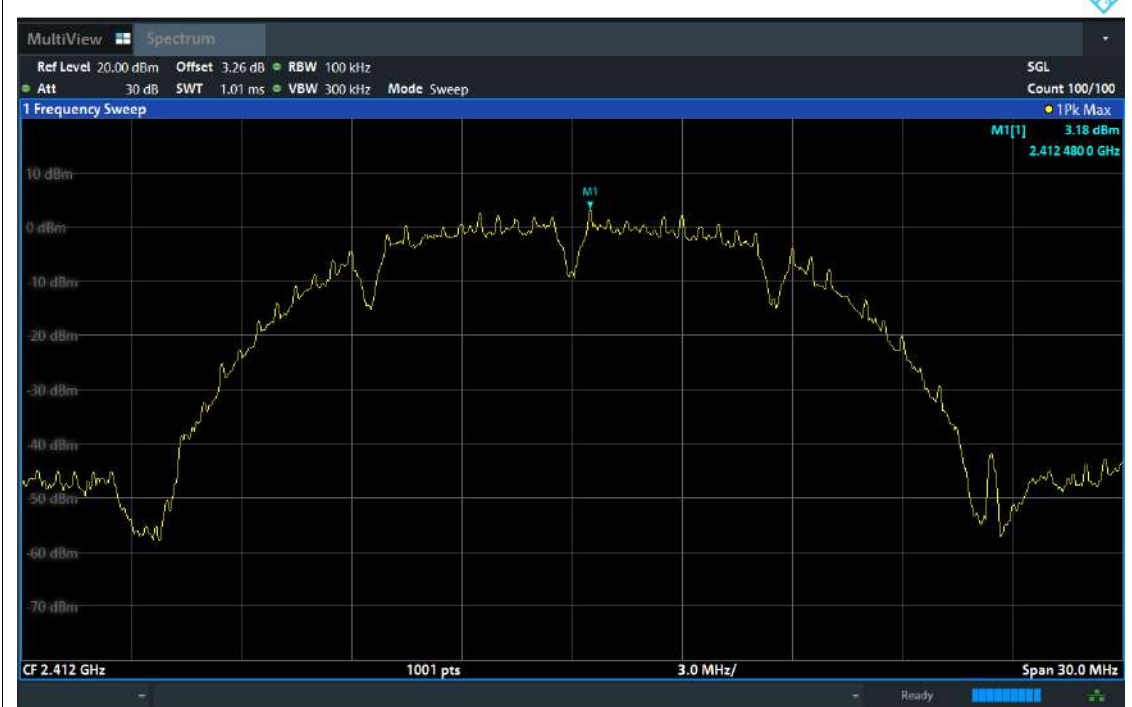
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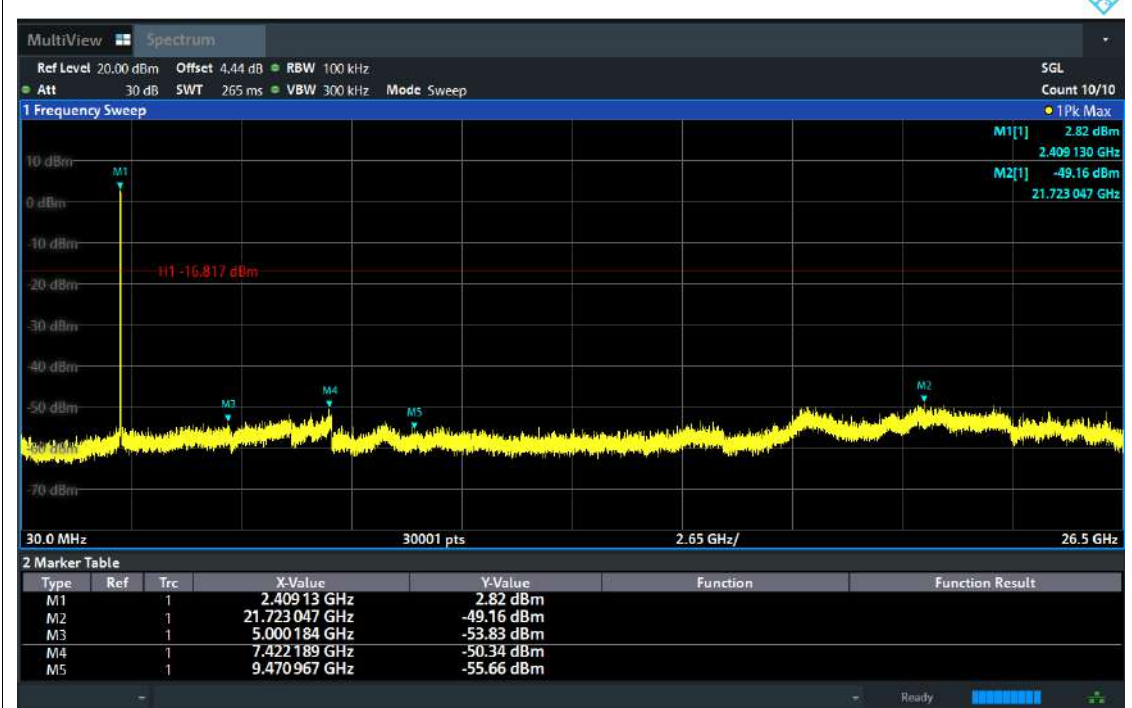
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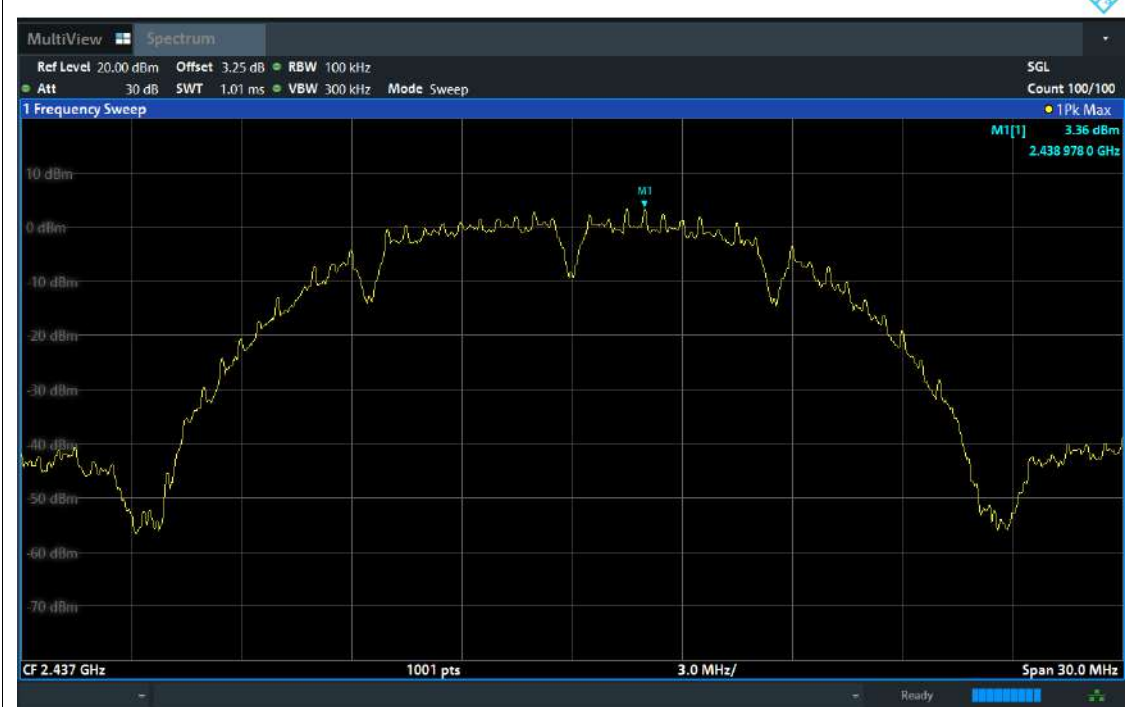
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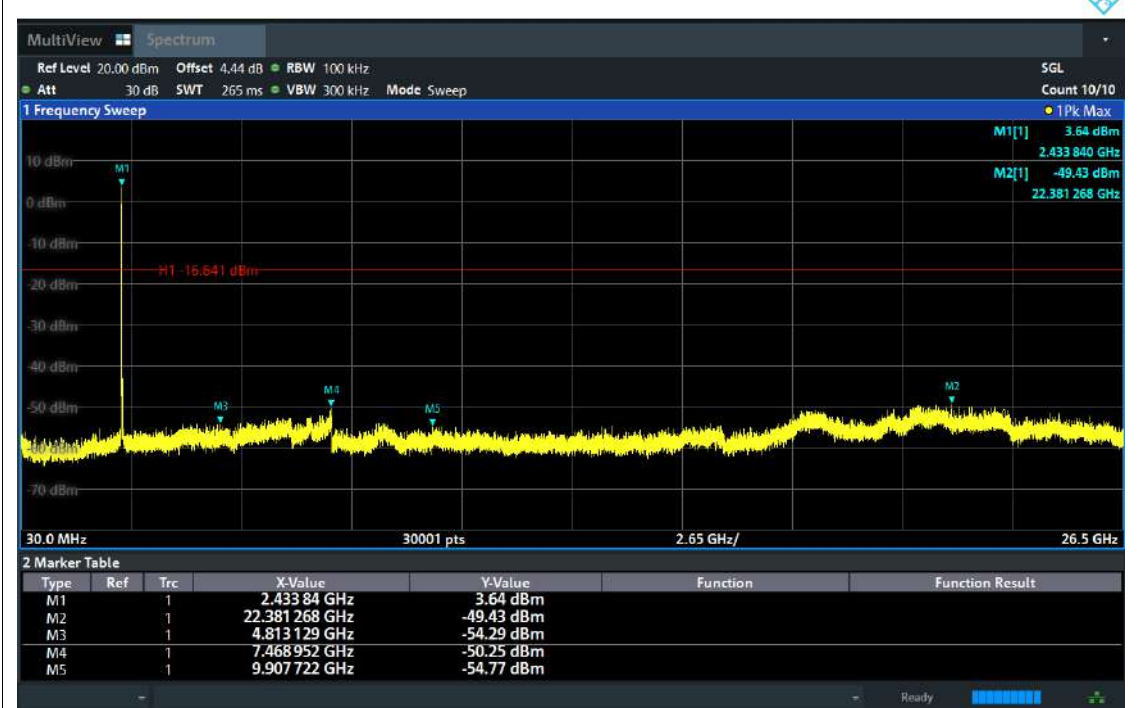
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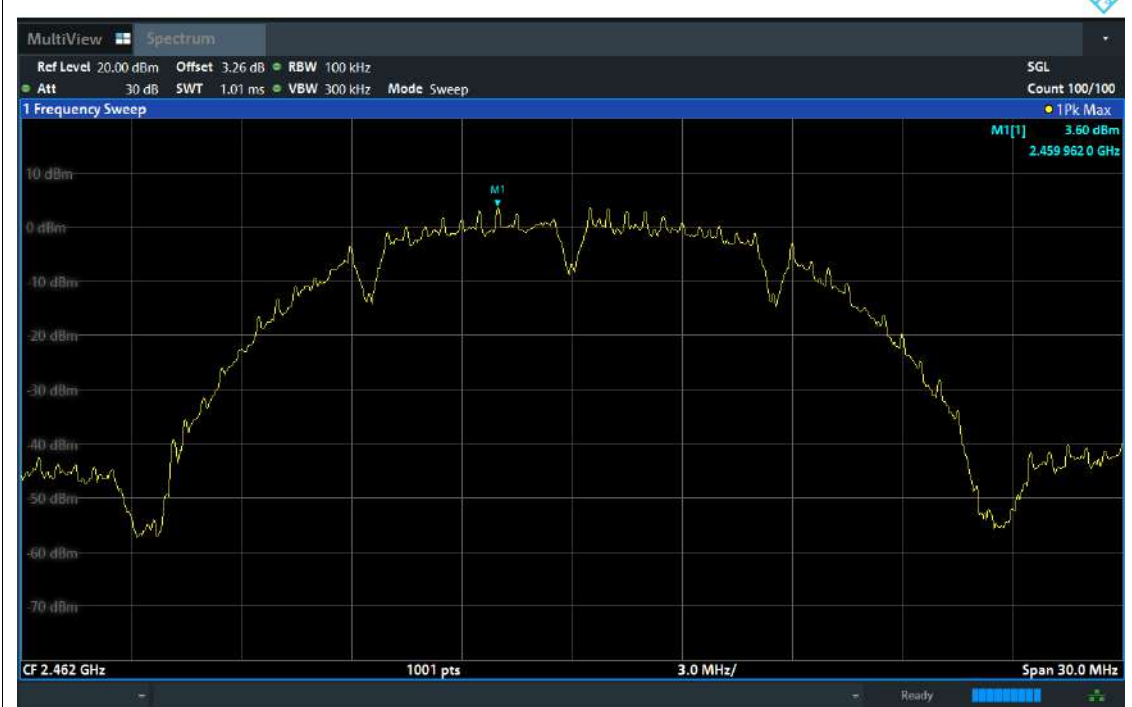
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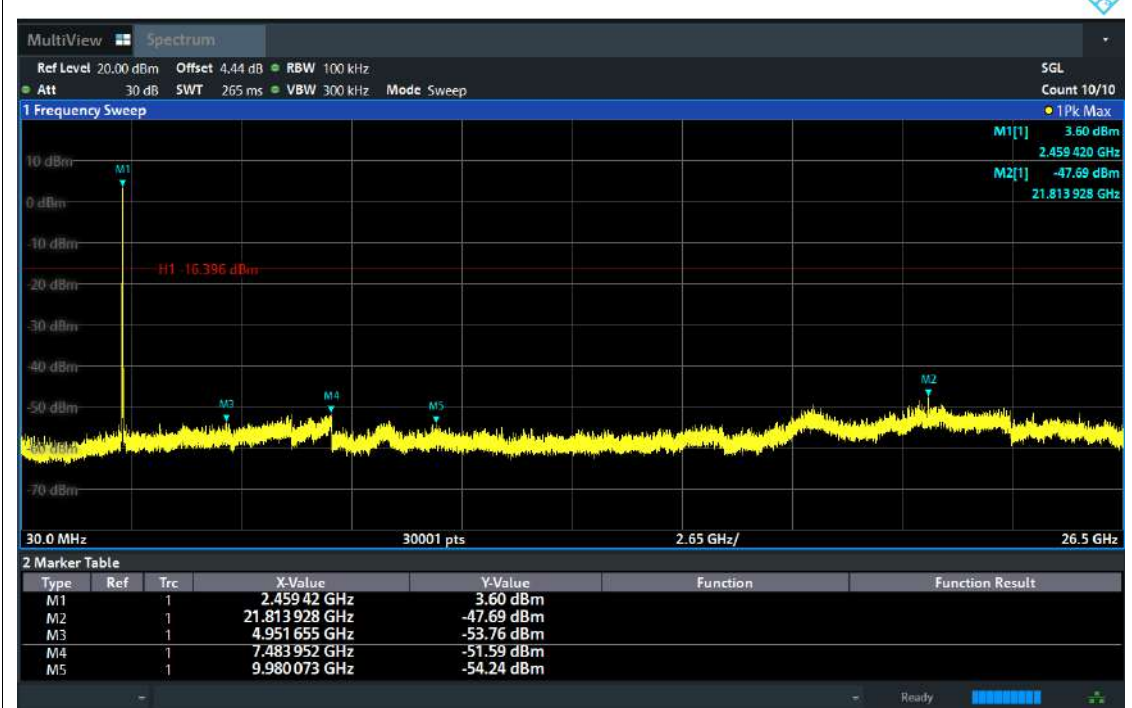
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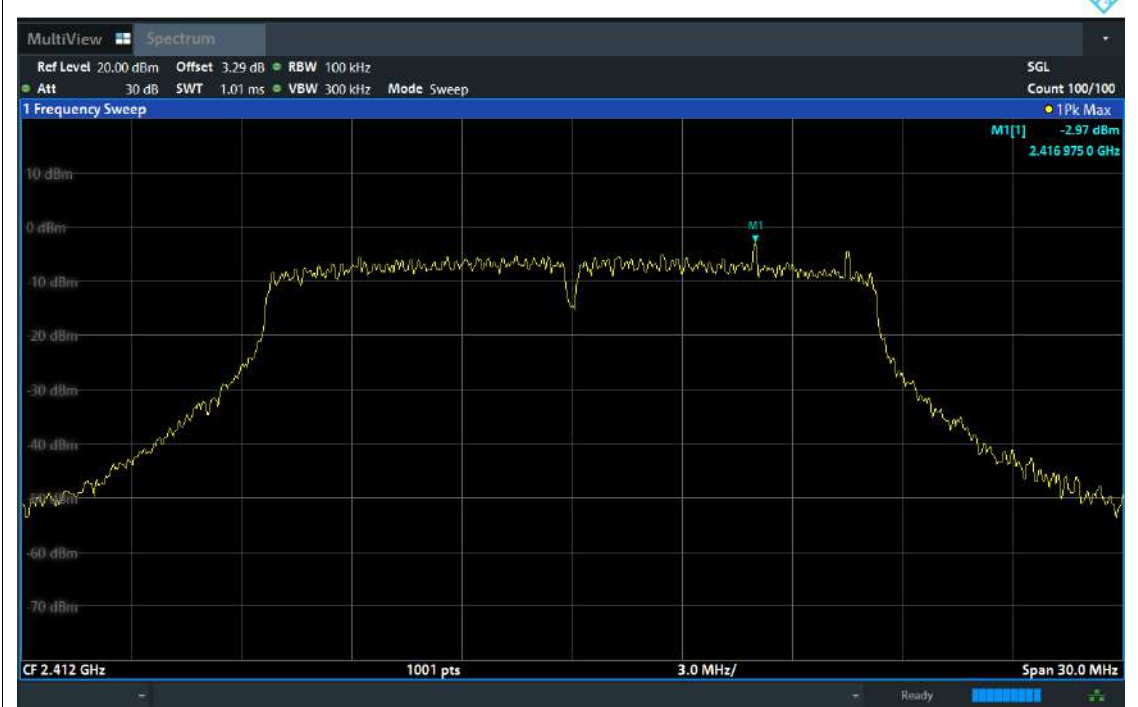
Tx. Spurious NVNT b 2462MHz Ant2 Ref



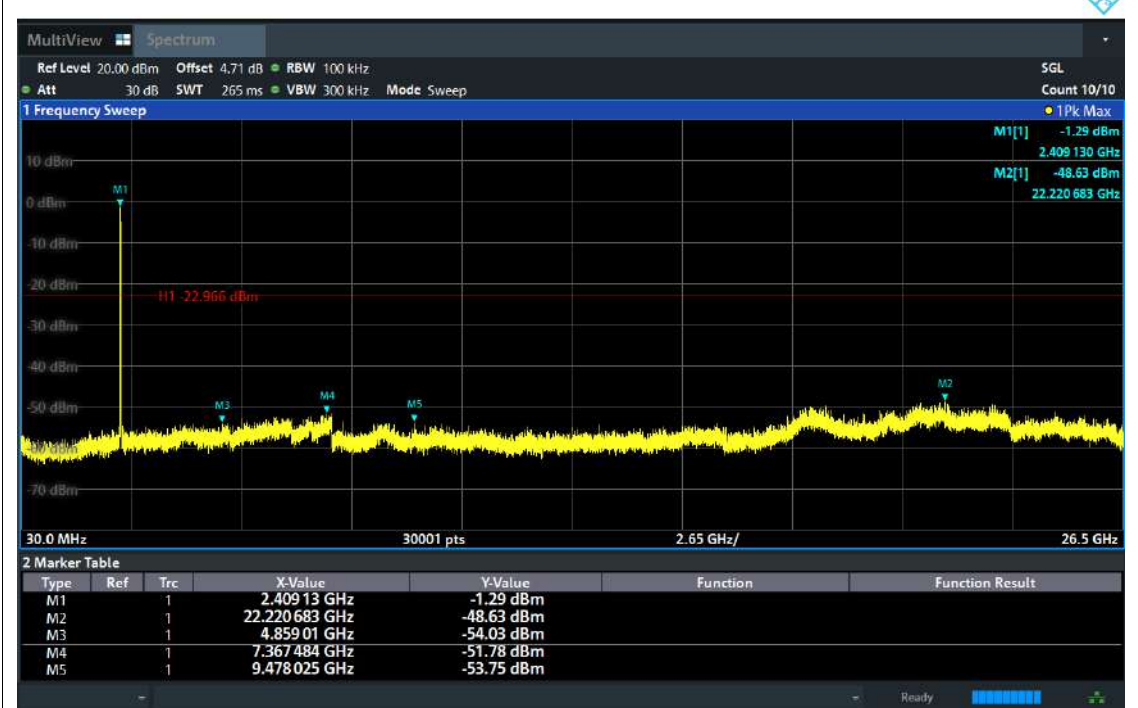
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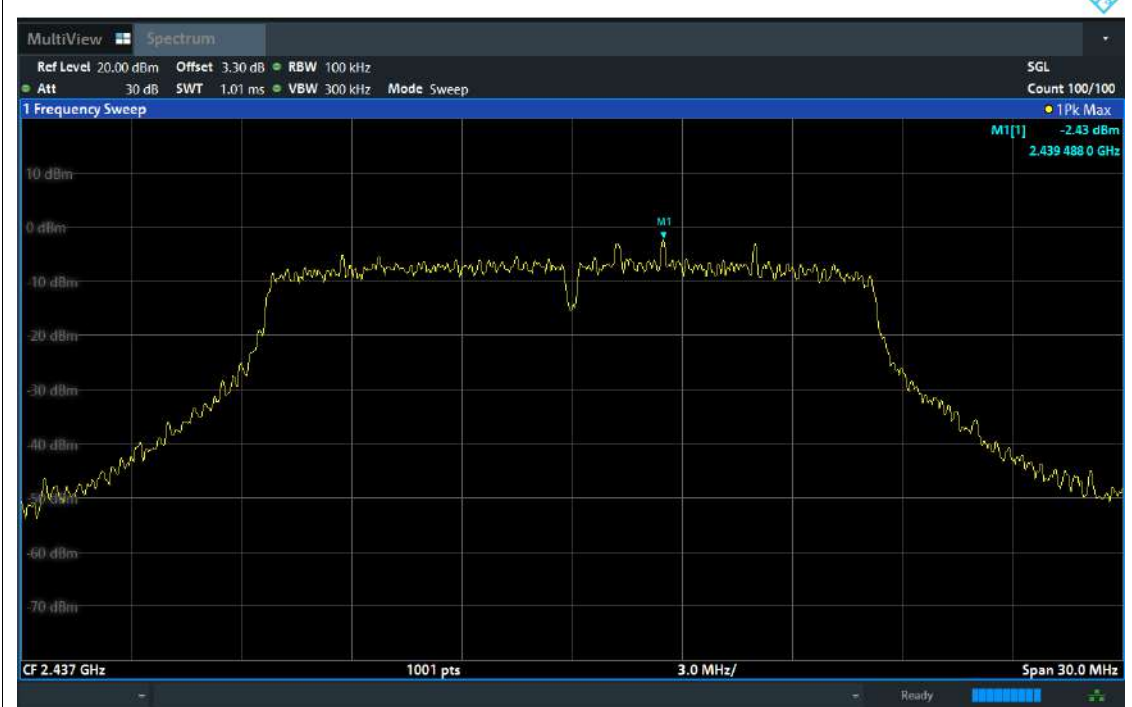
Tx. Spurious NVNT g 2412MHz Ant1 Ref



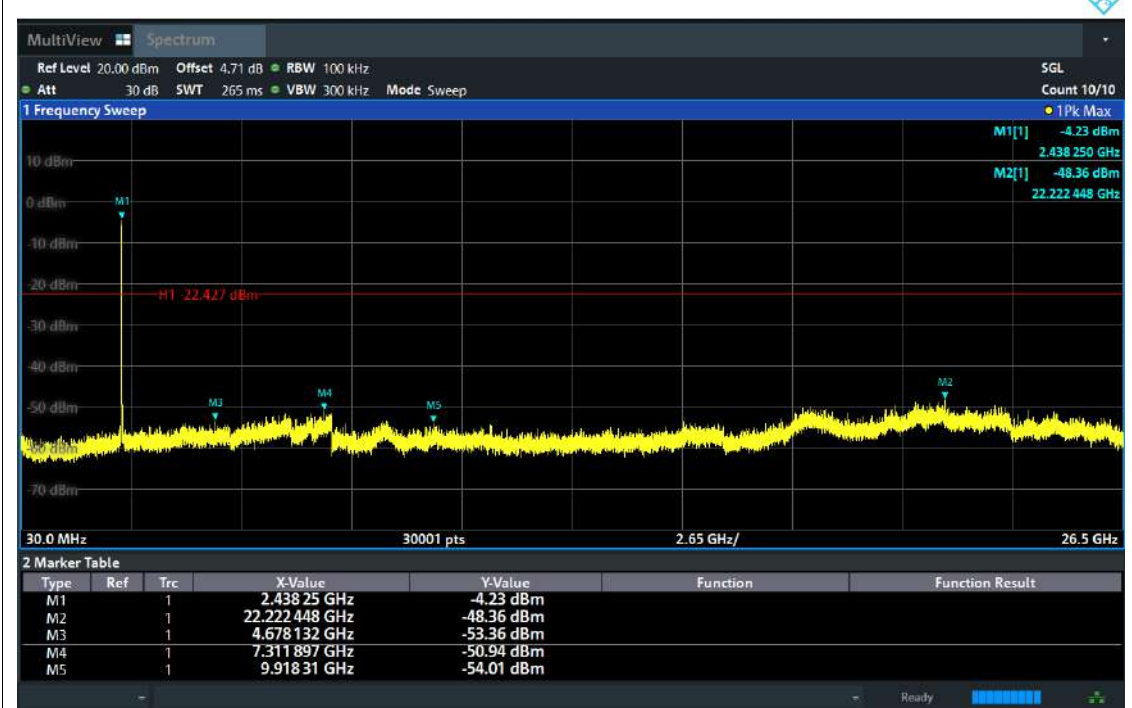
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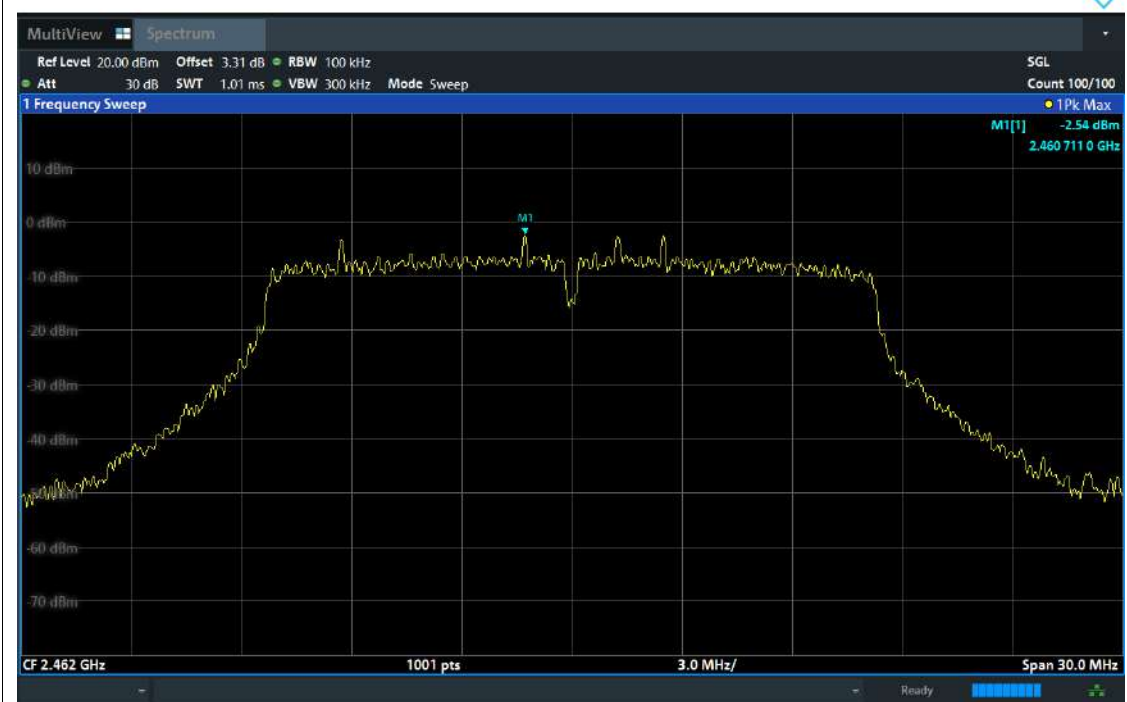
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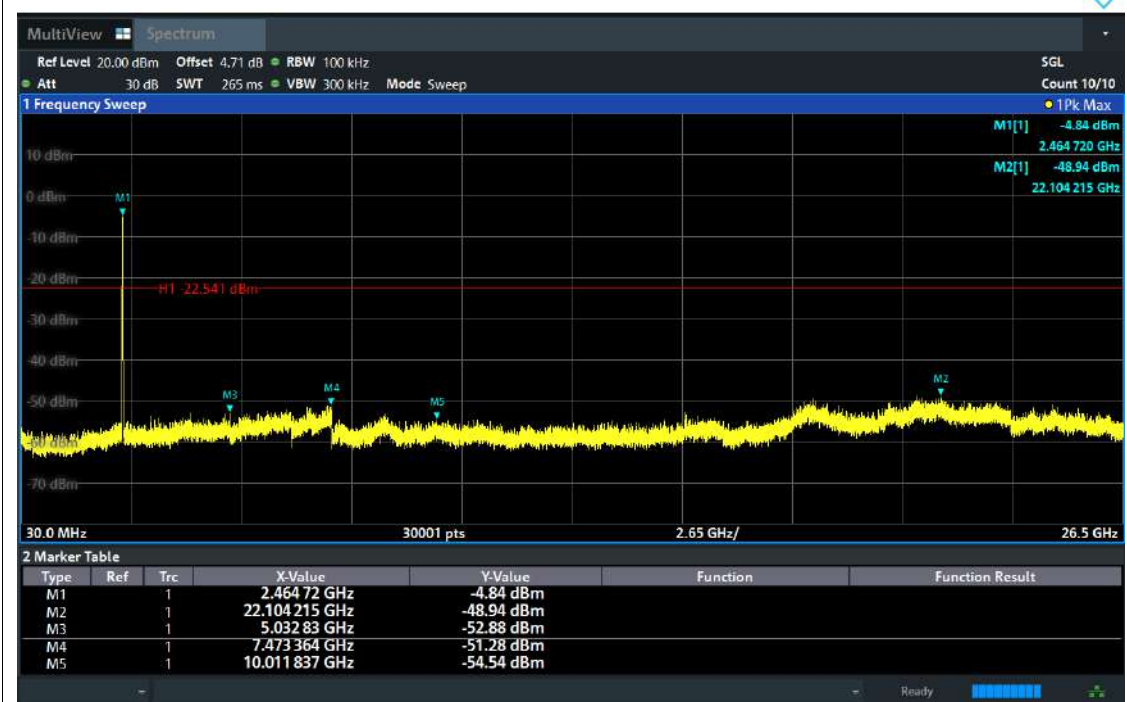
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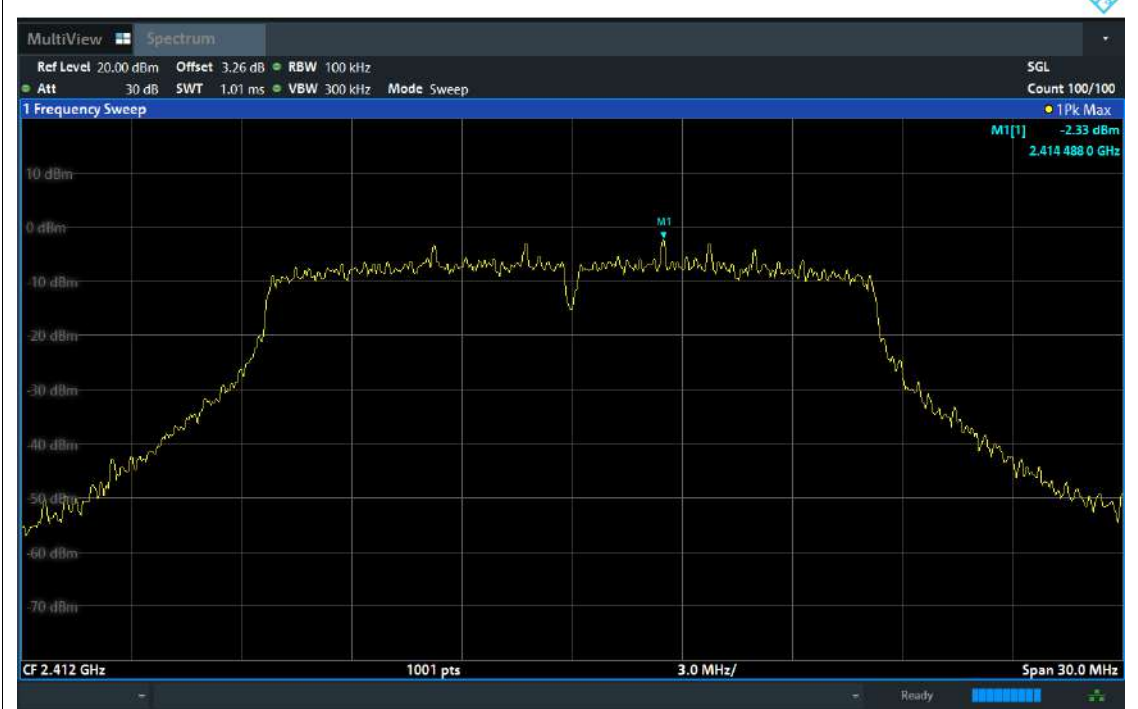
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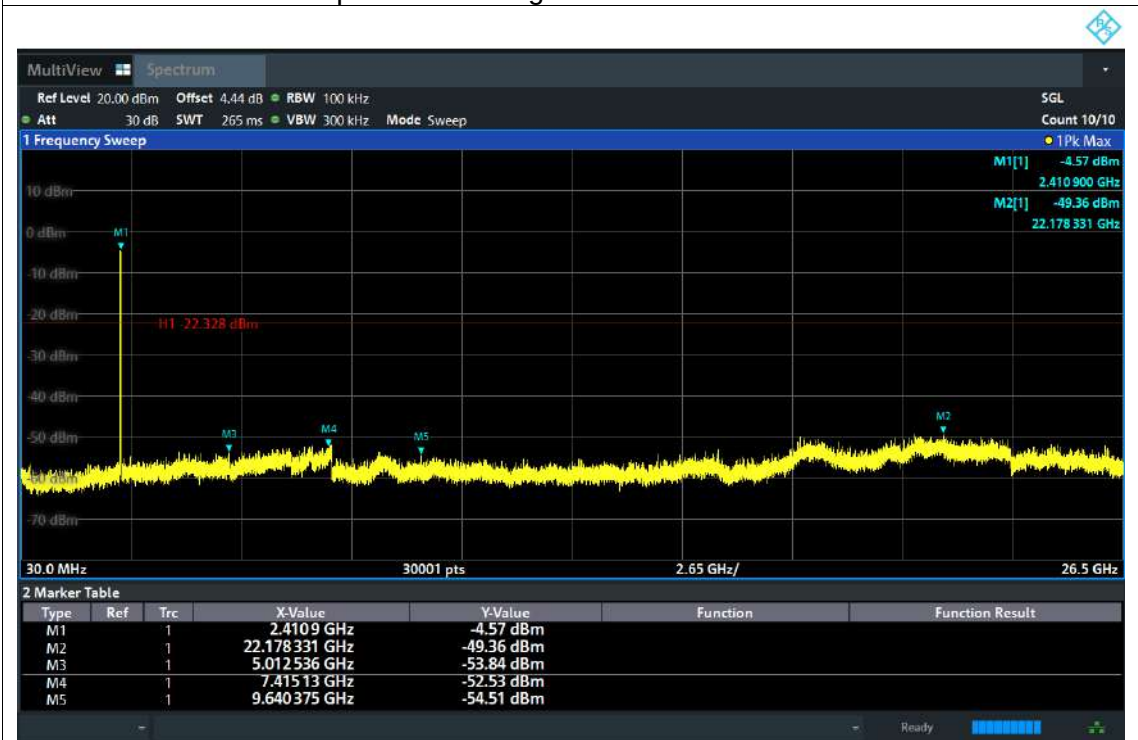
Tx. Spurious NVNT g 2462MHz Ant1 Emission



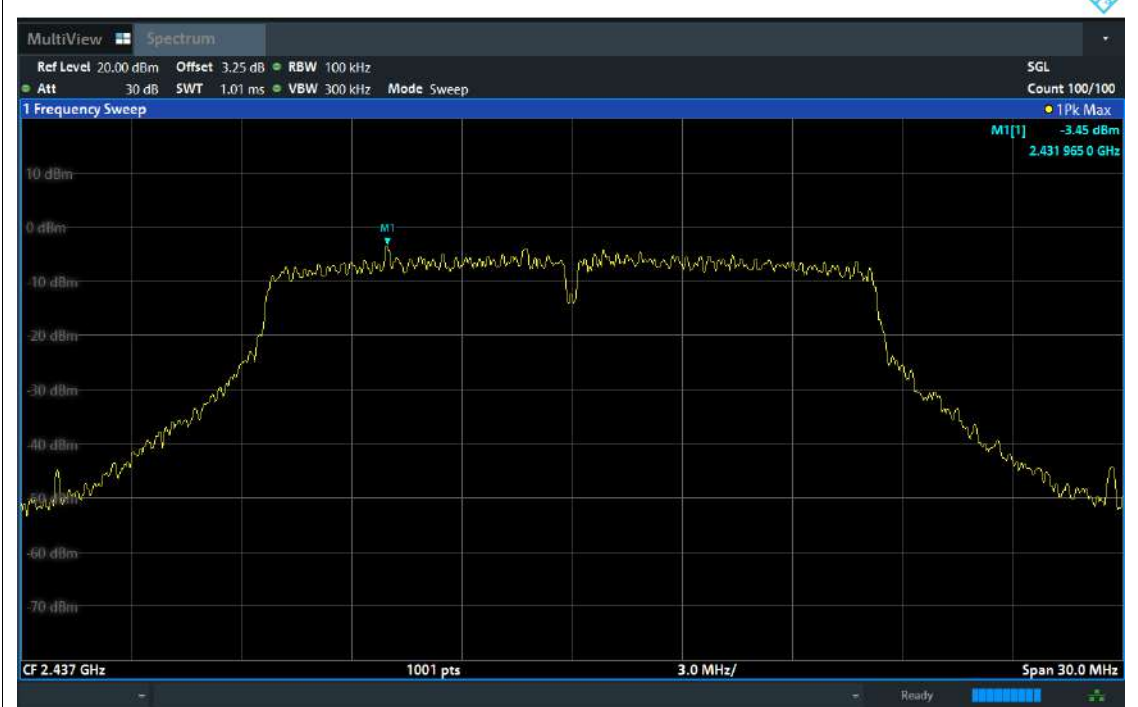
Tx. Spurious NVNT g 2412MHz Ant2 Ref



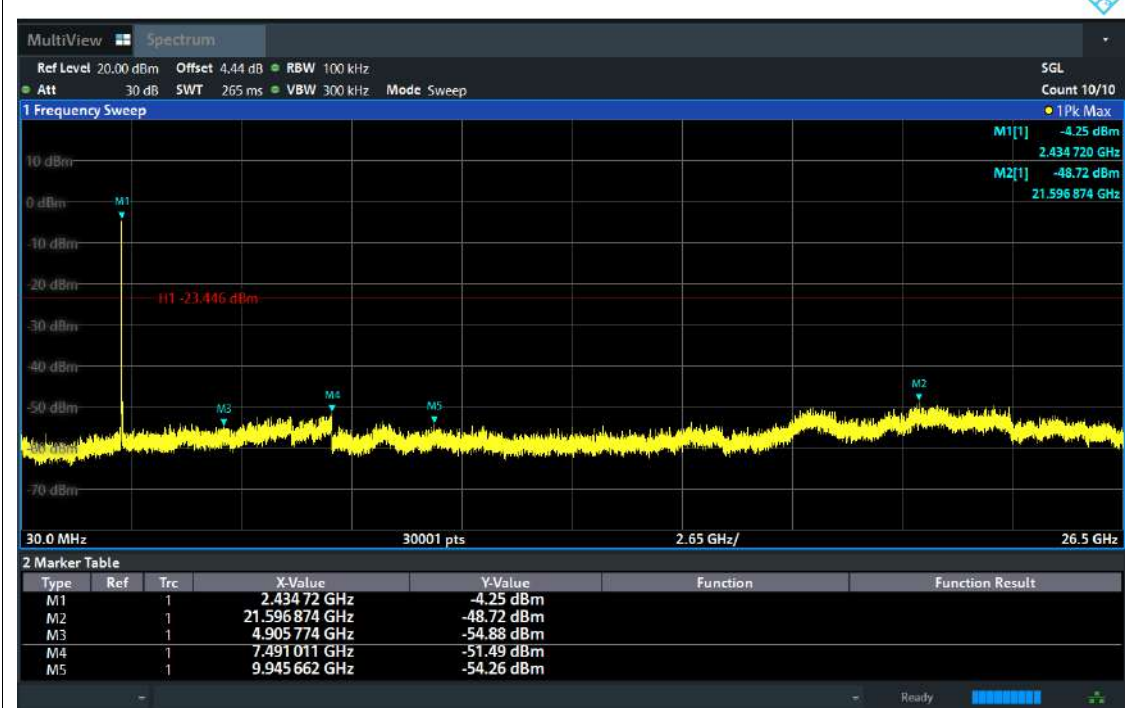
Tx. Spurious NVNT g 2412MHz Ant2 Emission



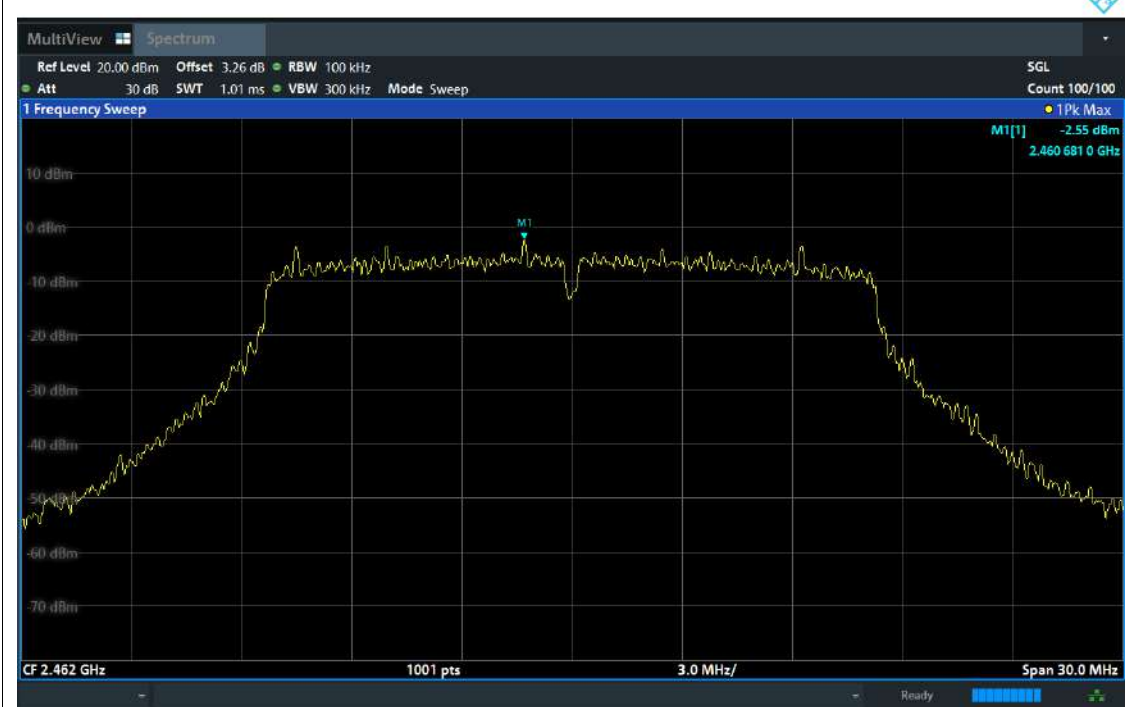
Tx. Spurious NVNT g 2437MHz Ant2 Ref



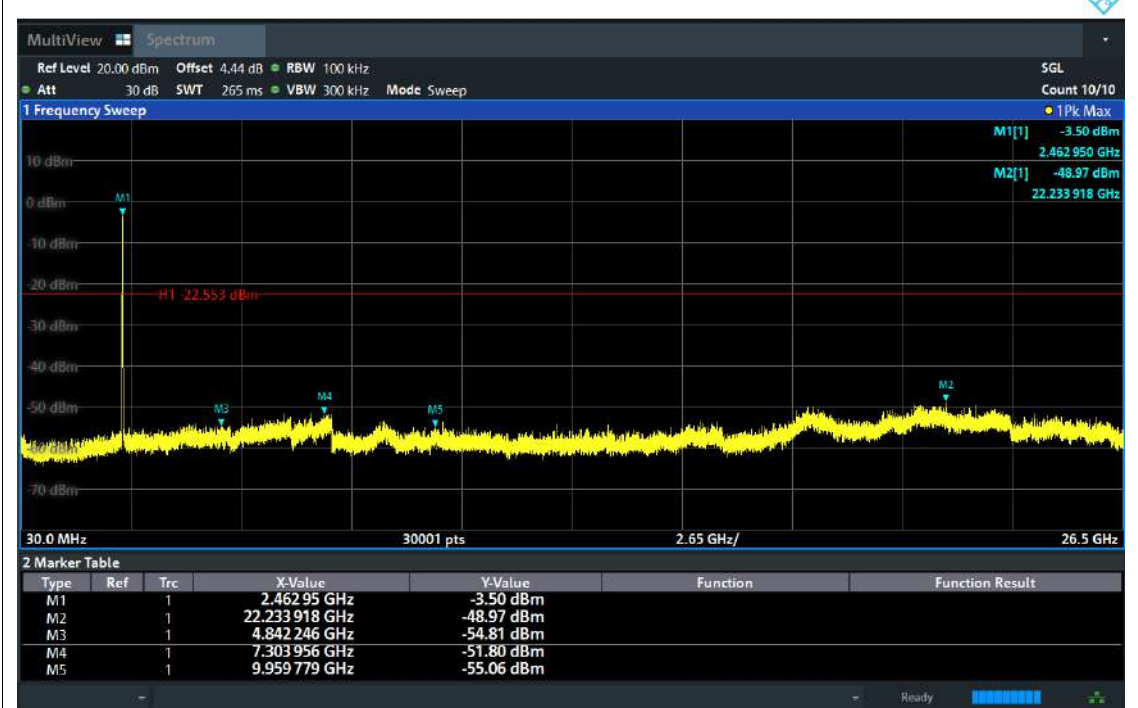
Tx. Spurious NVNT g 2437MHz Ant2 Emission



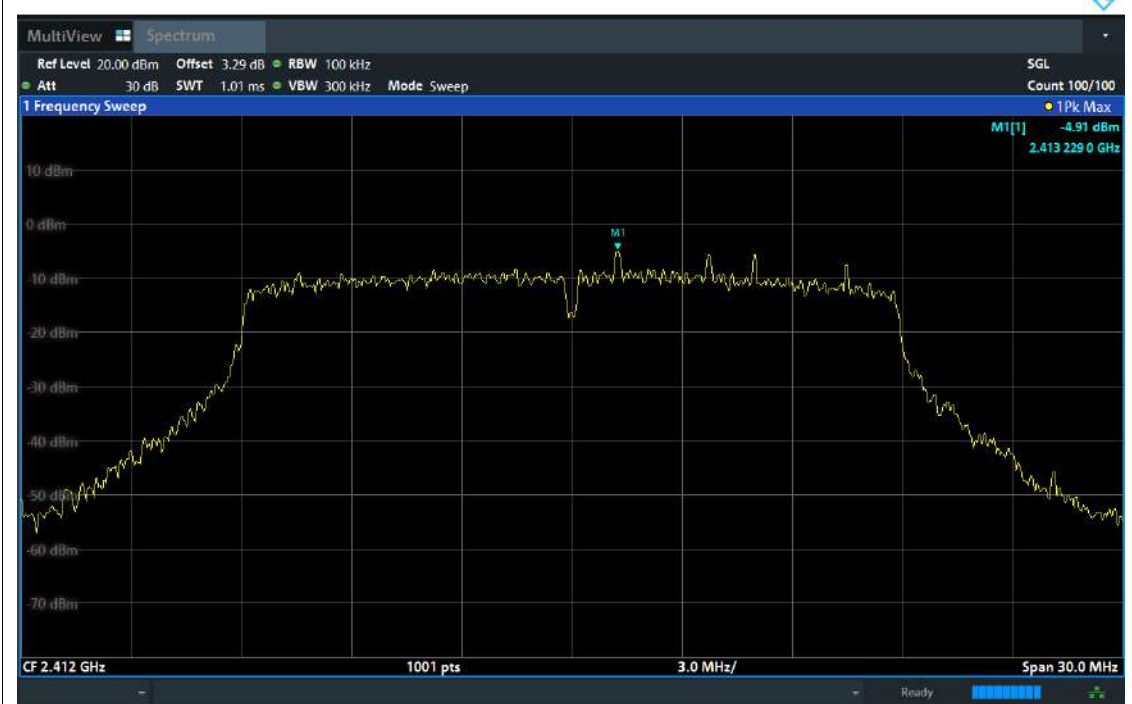
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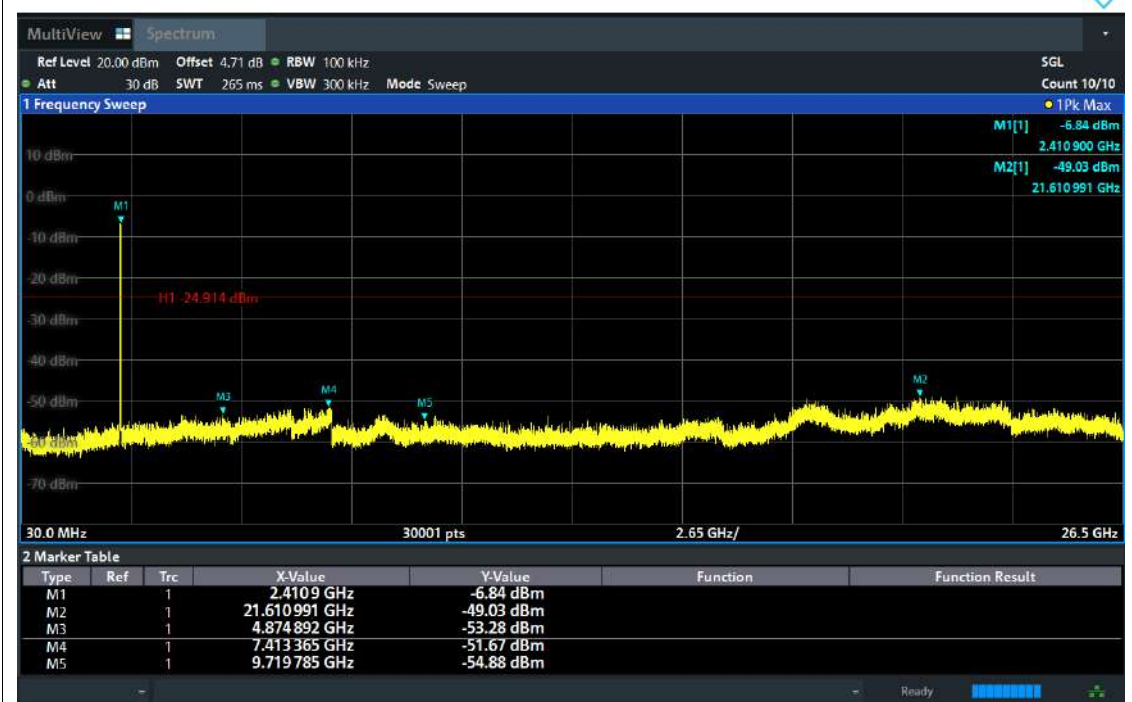
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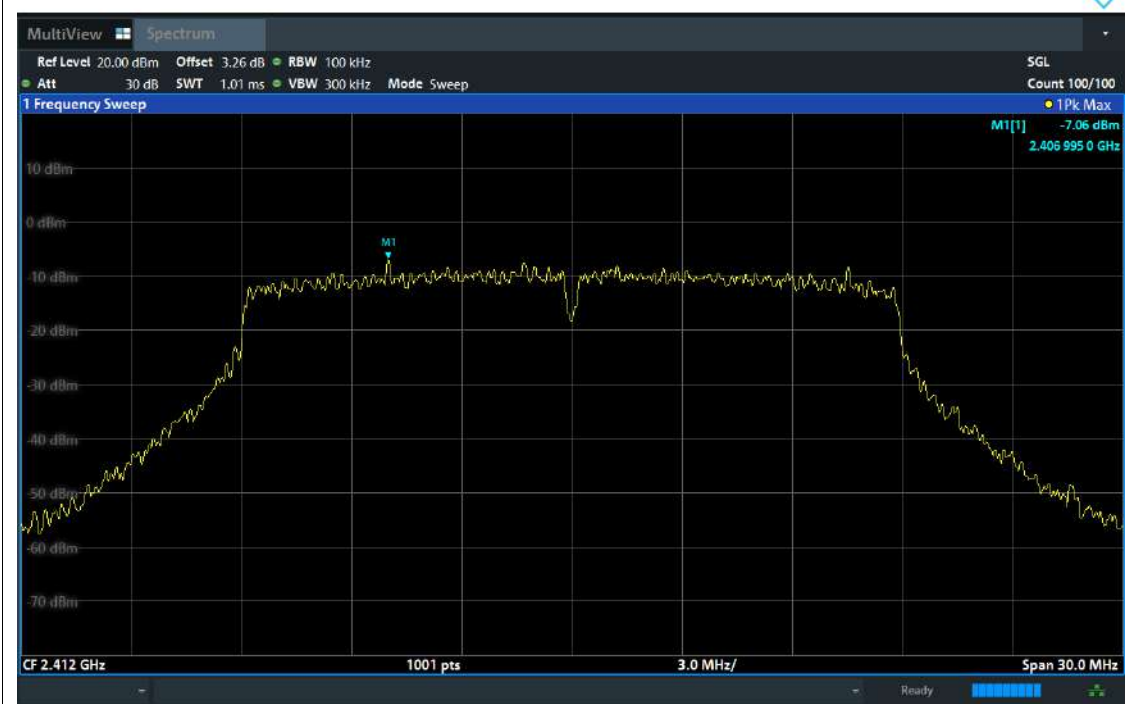
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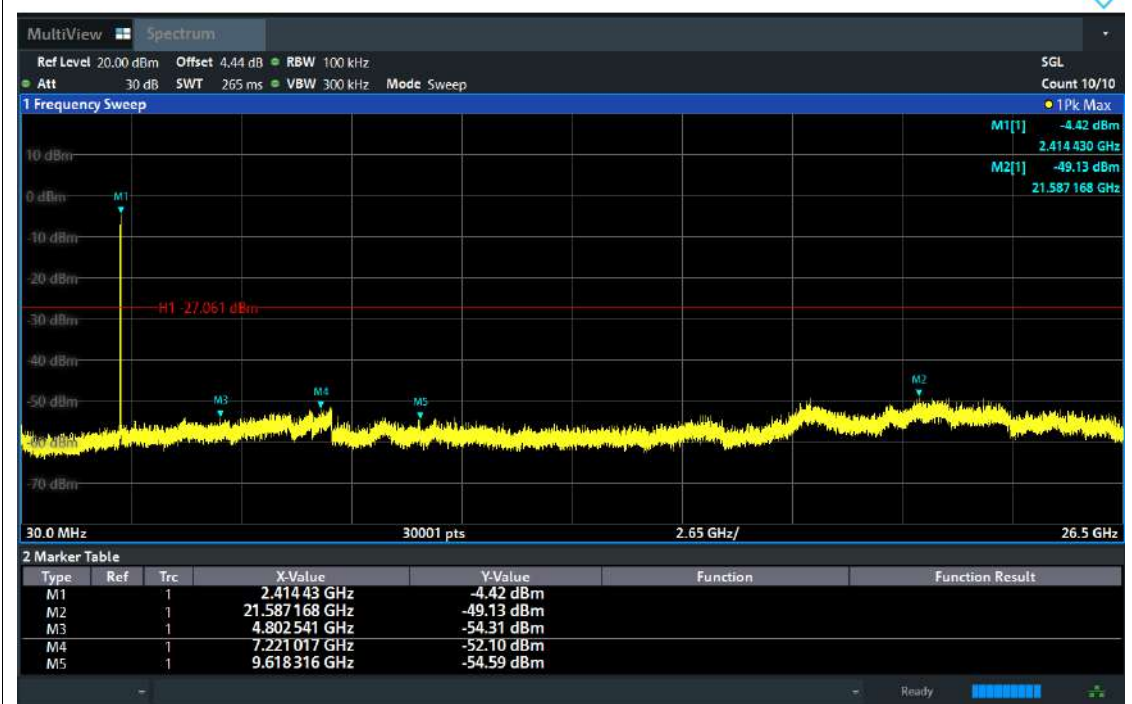
Tx. Spurious NVNT n20 2412MHz Ant1 Emission



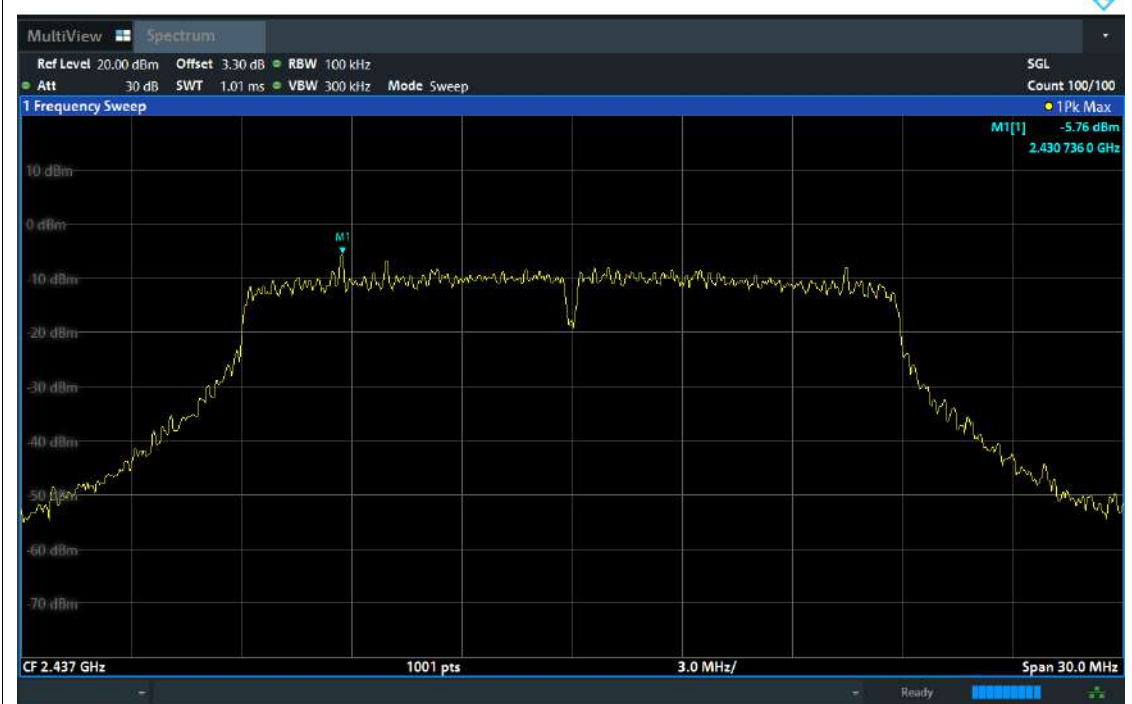
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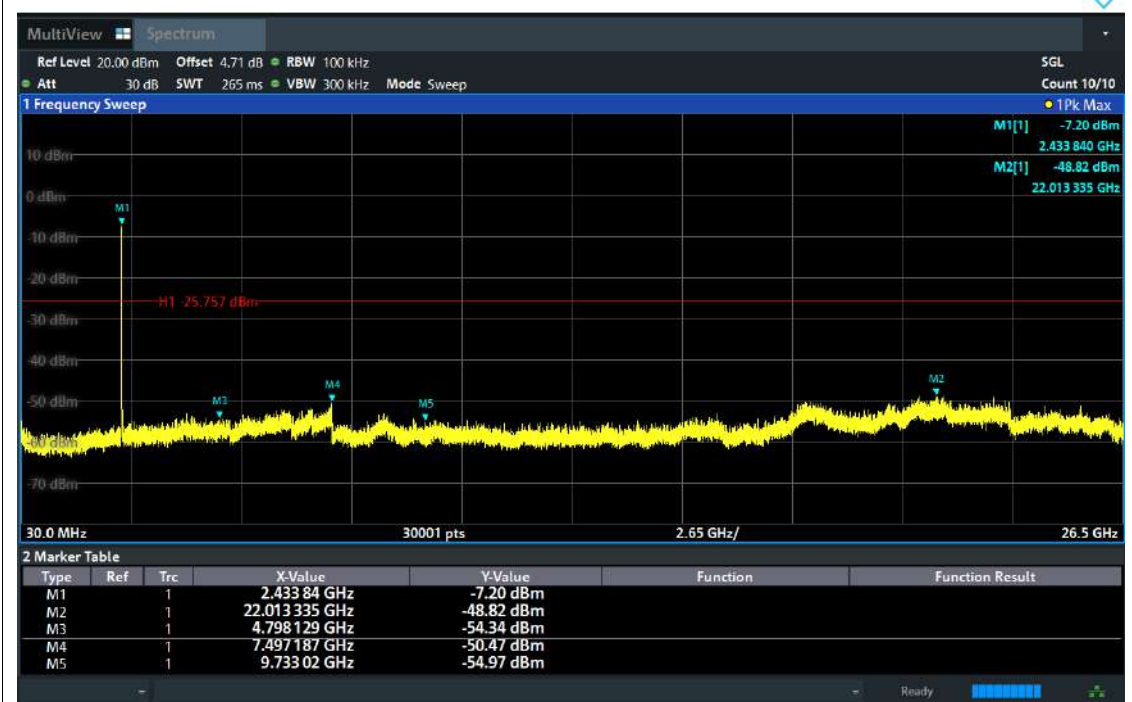
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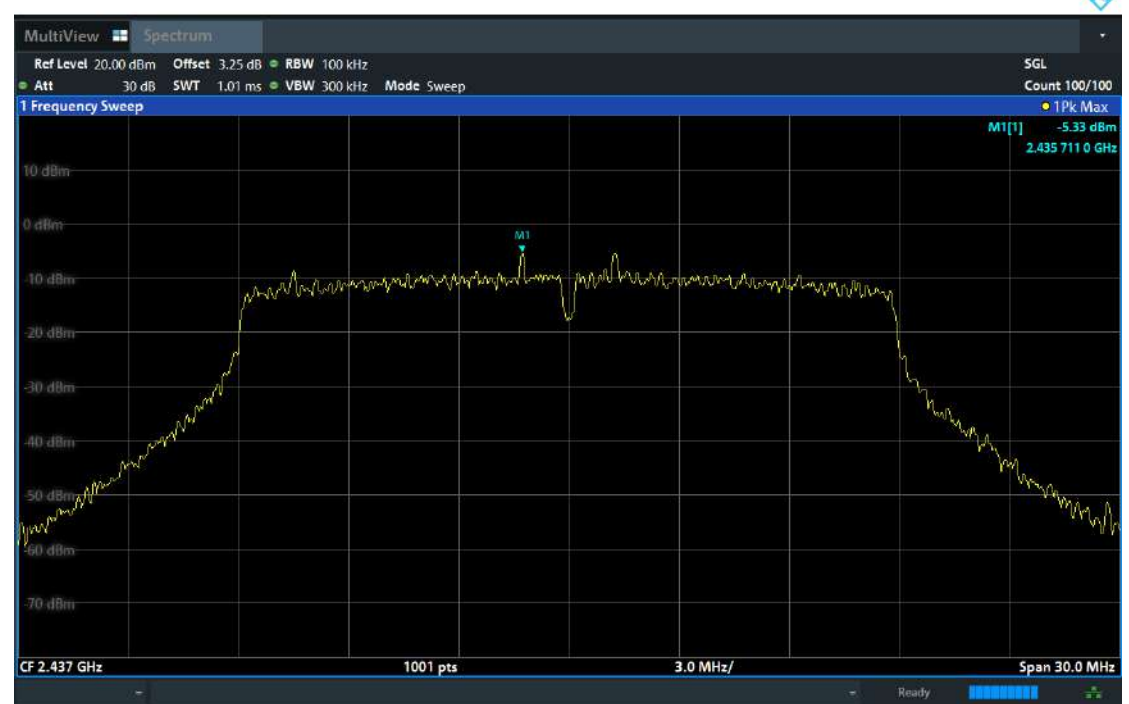
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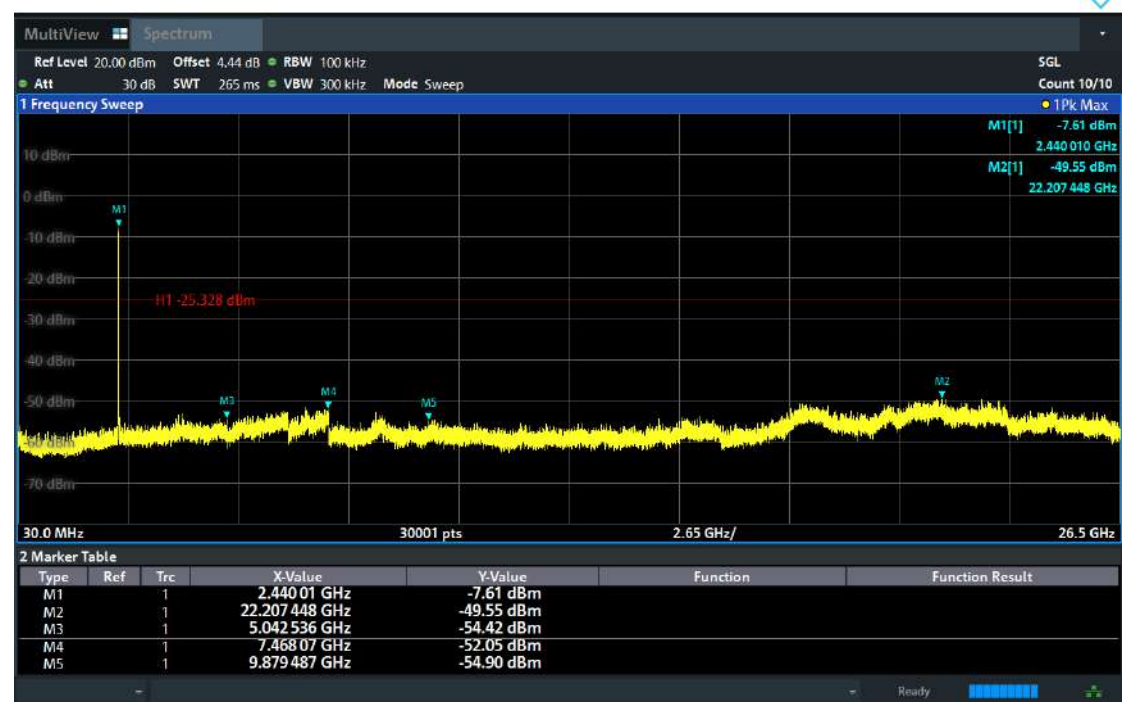
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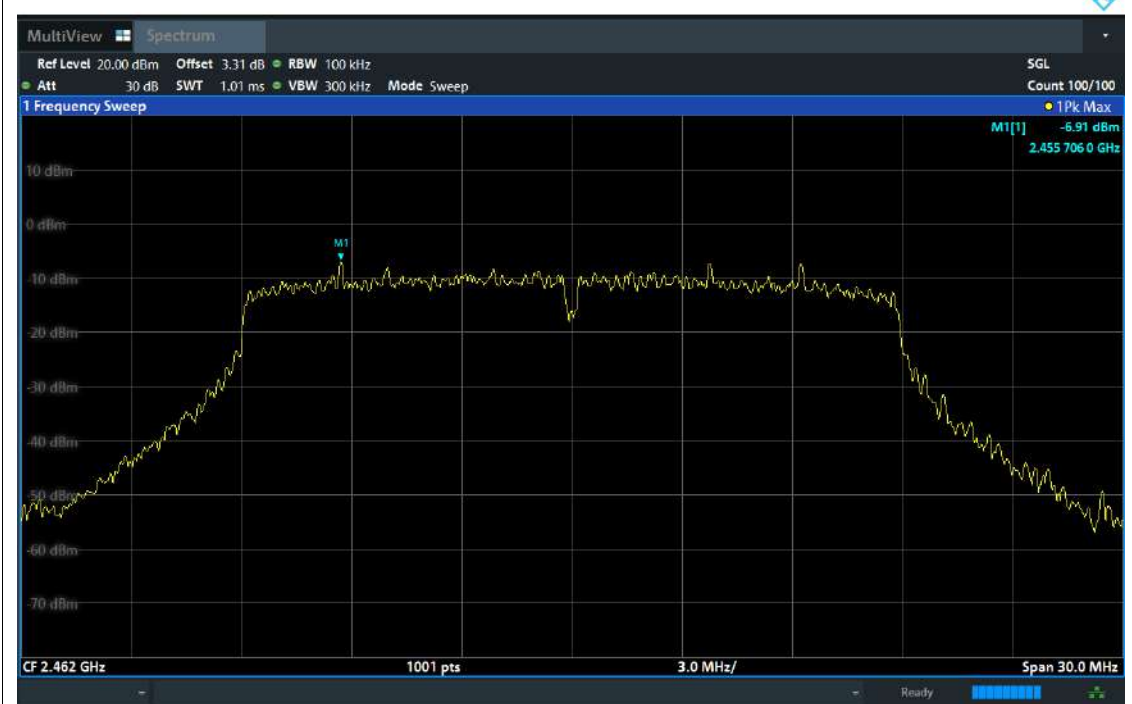
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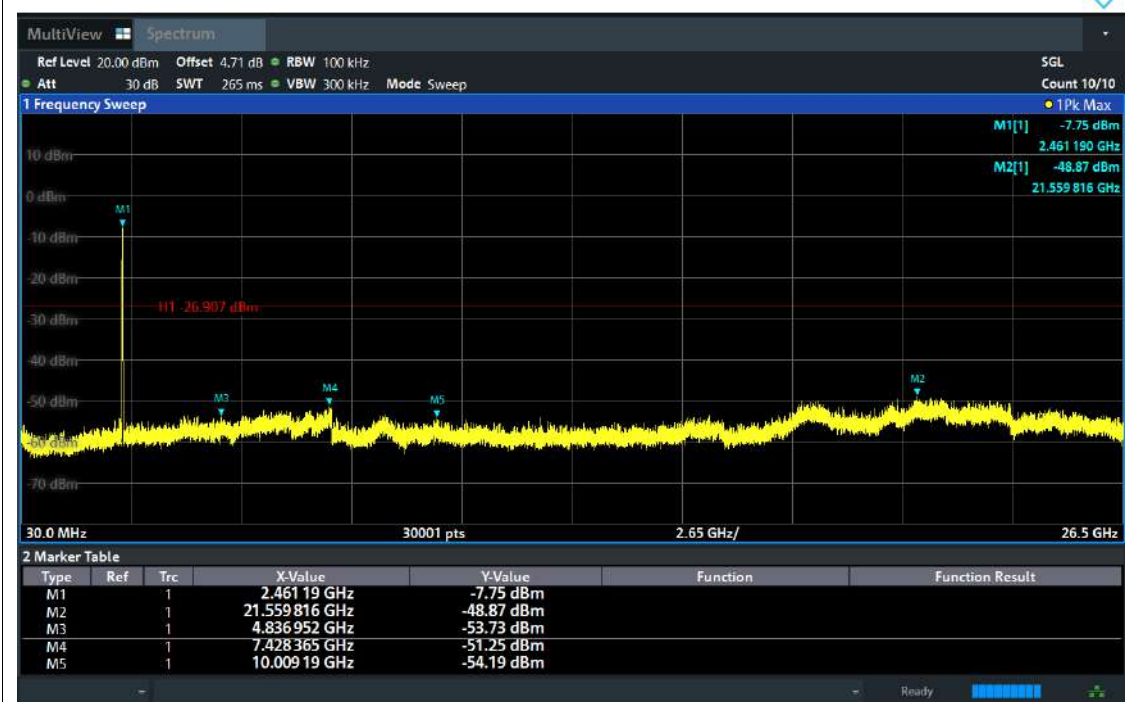
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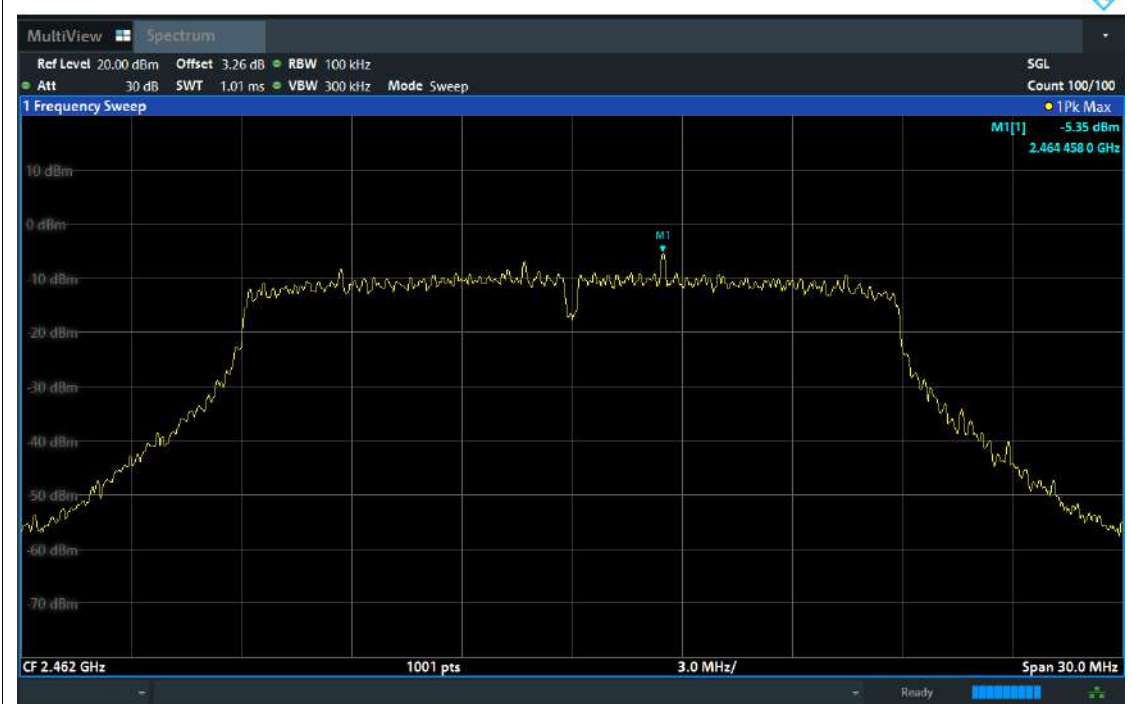
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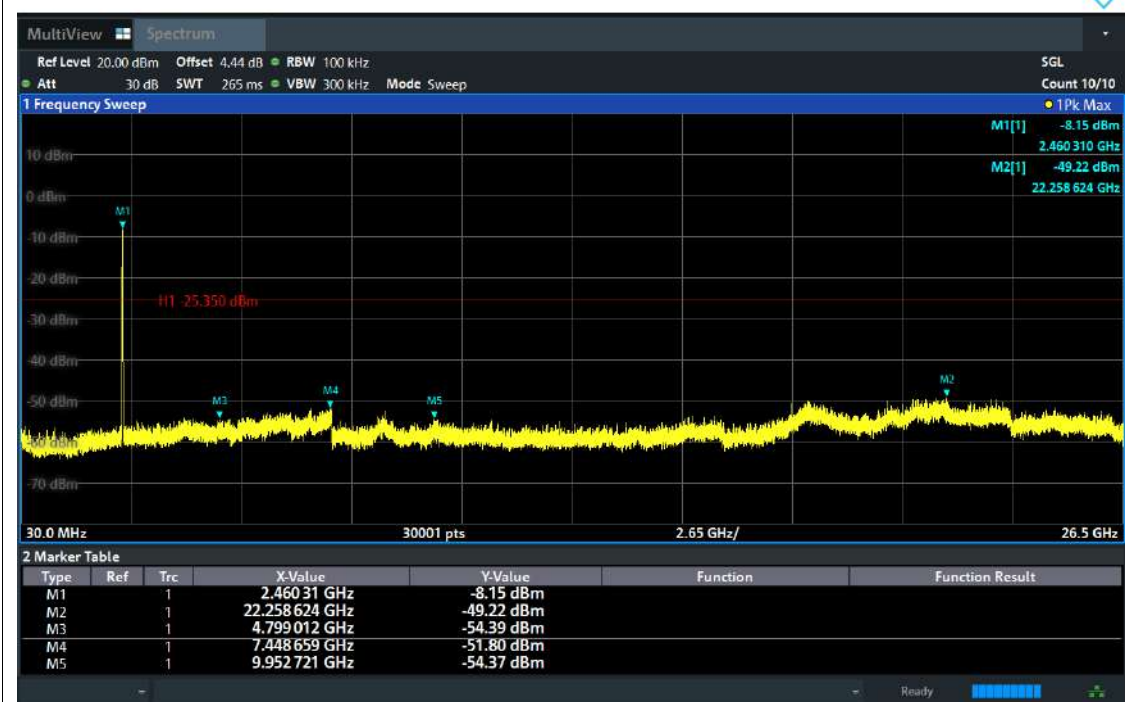
Tx. Spurious NVNT n20 2462MHz Ant1 Emission



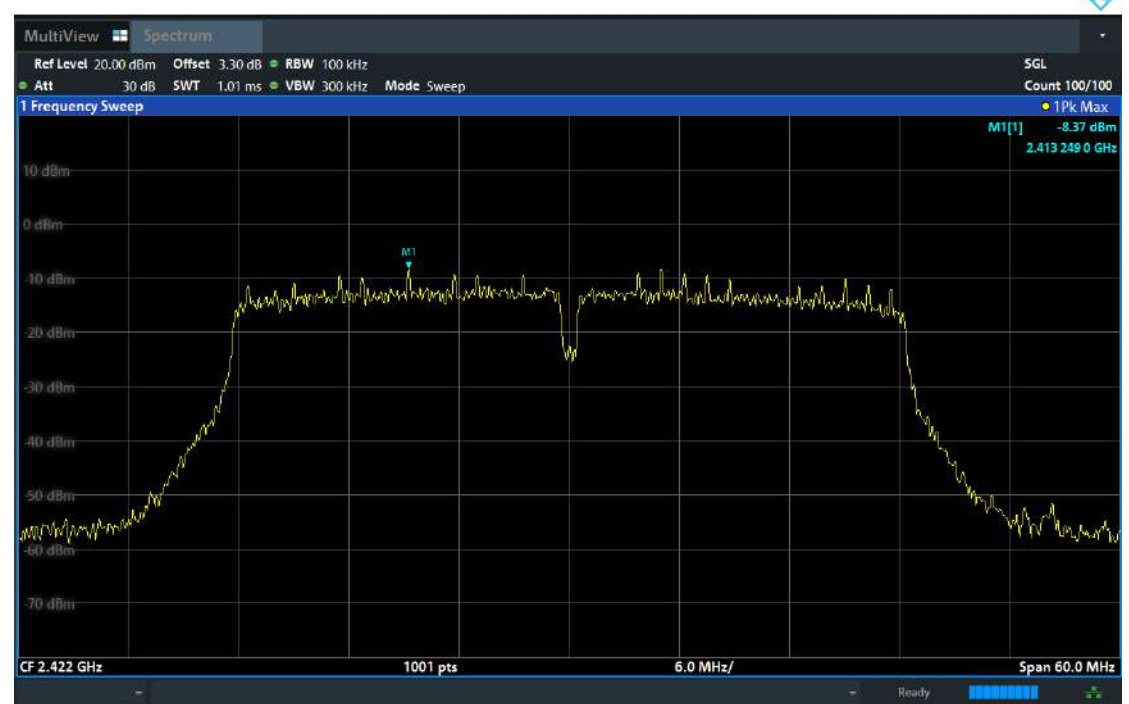
Tx. Spurious NVNT n20 2462MHz Ant2 Ref



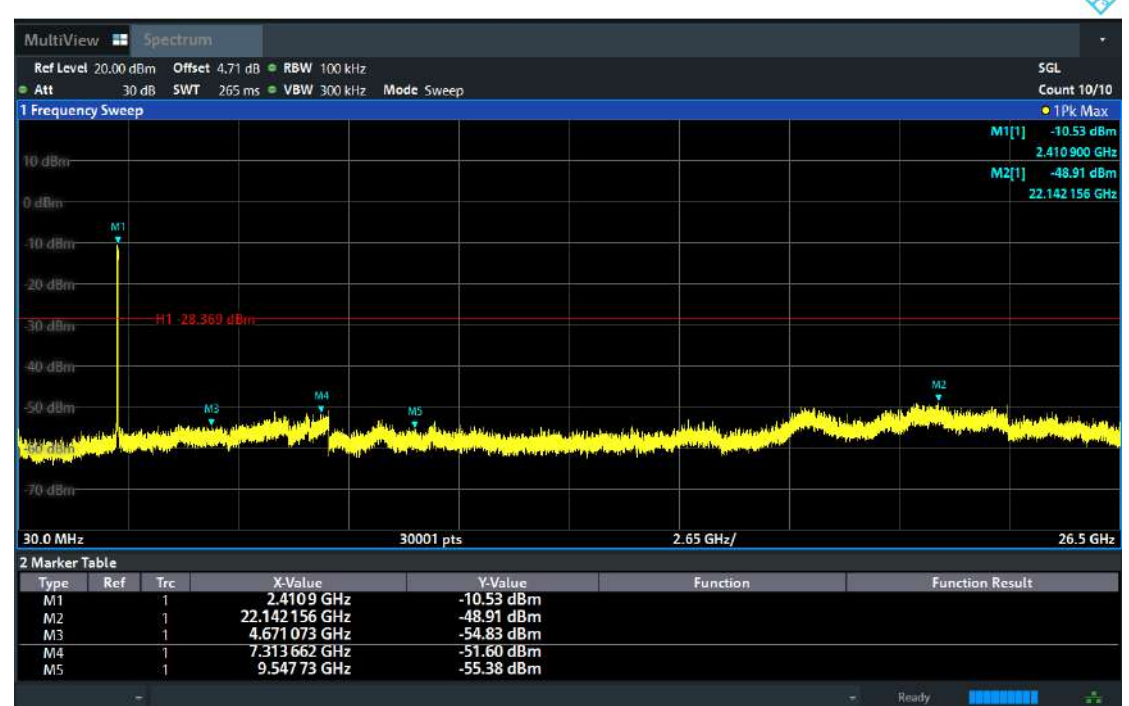
Tx. Spurious NVNT n20 2462MHz Ant2 Emission



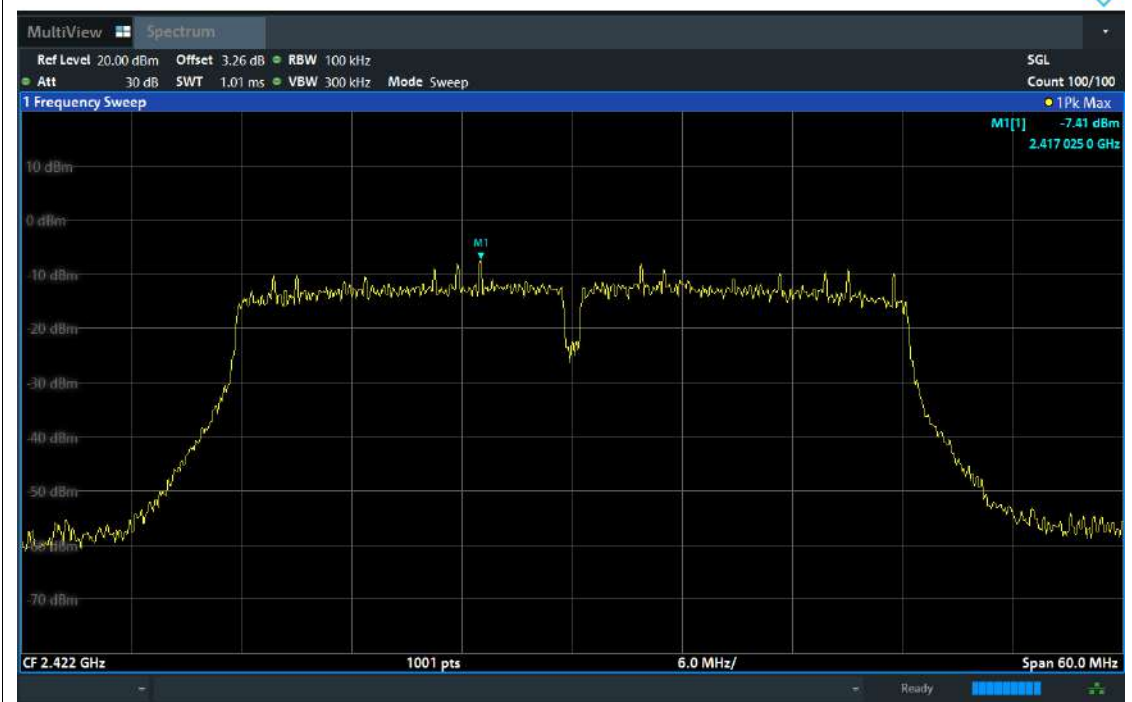
Tx. Spurious NVNT n40 2422MHz Ant1 Ref



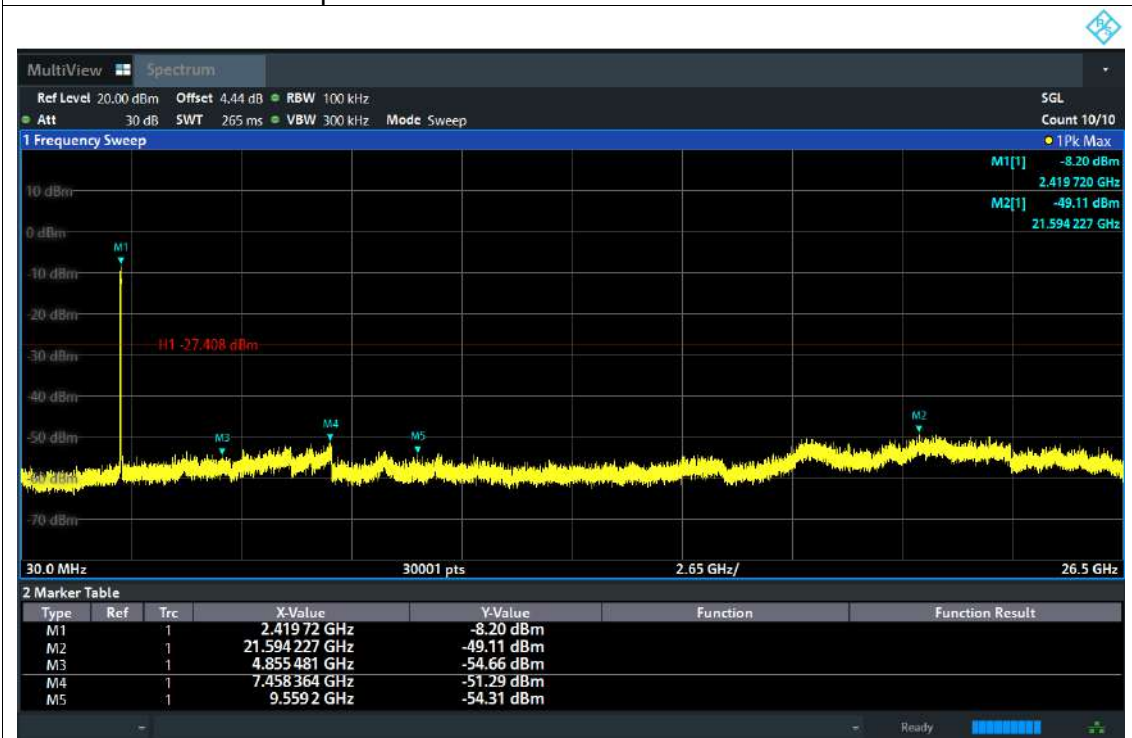
Tx. Spurious NVNT n40 2422MHz Ant1 Emission



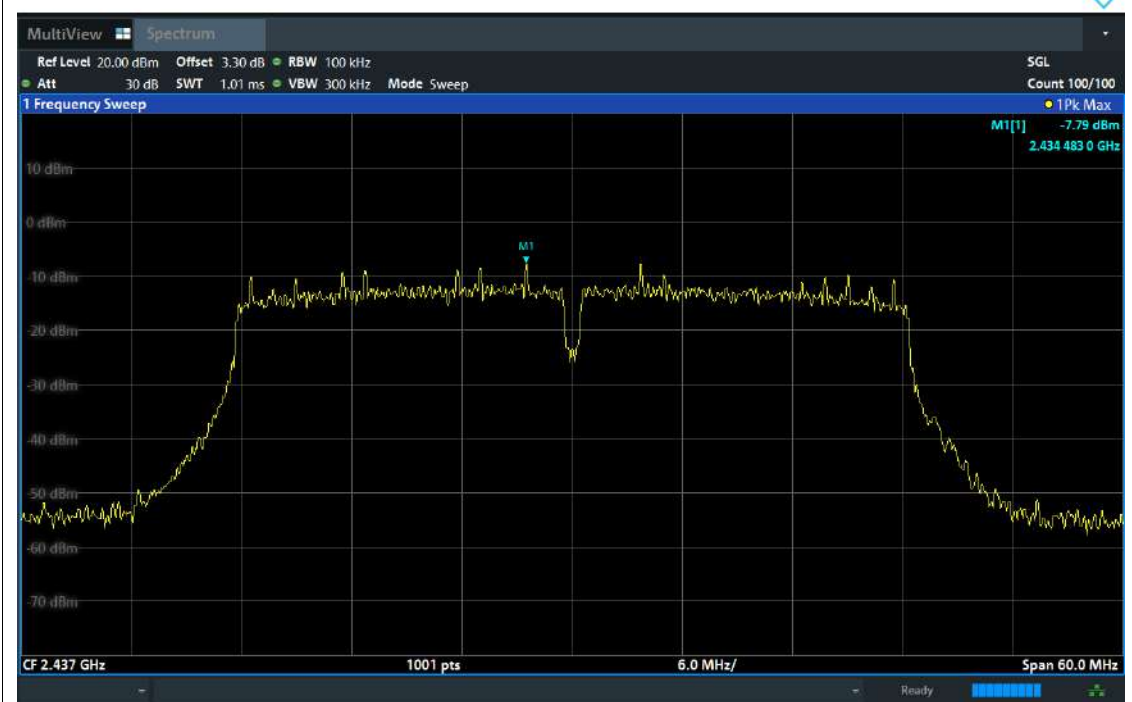
Tx. Spurious NVNT n40 2422MHz Ant2 Ref



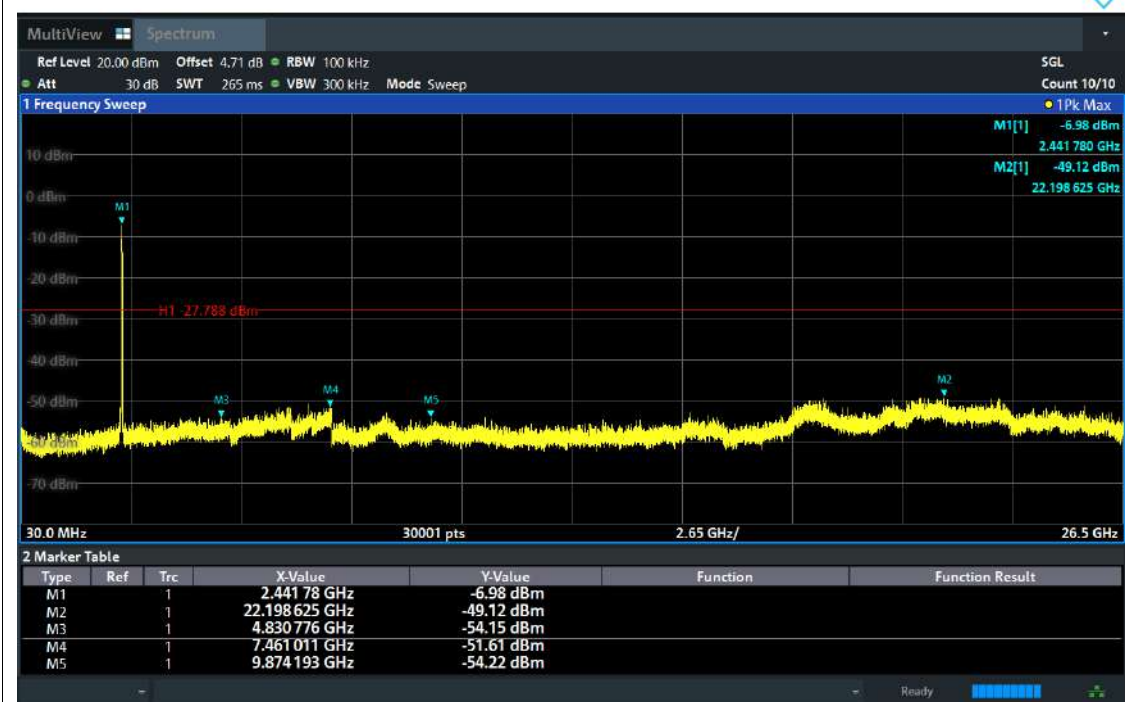
Tx. Spurious NVNT n40 2422MHz Ant2 Emission



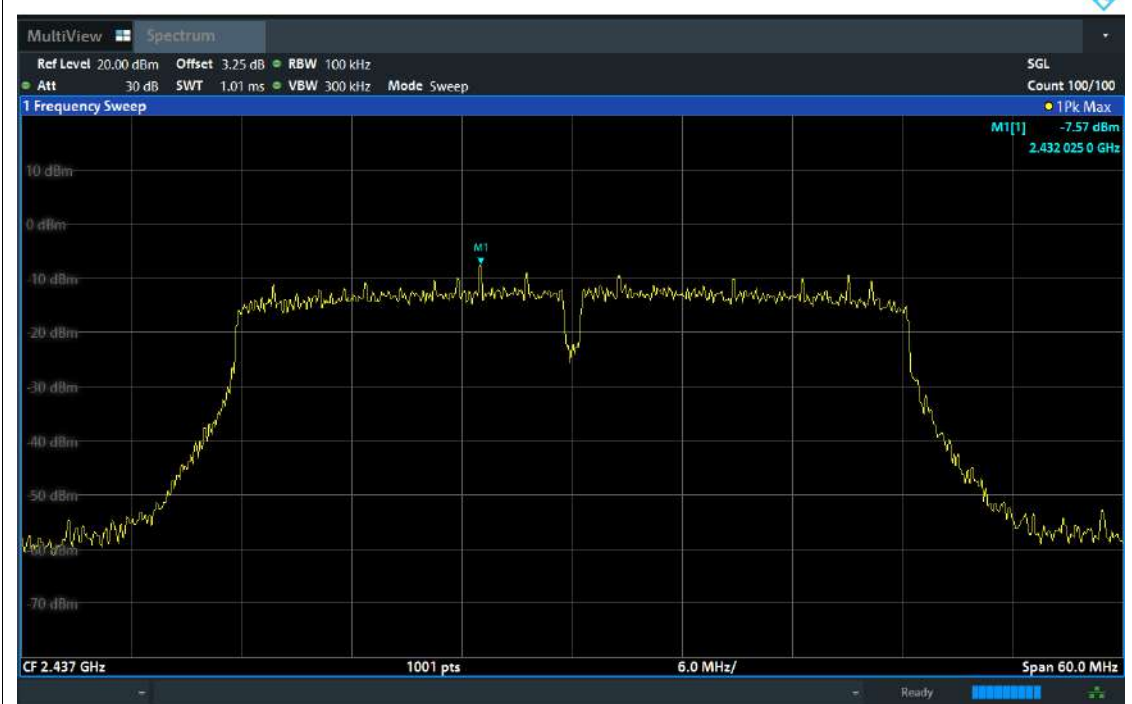
Tx. Spurious NVNT n40 2437MHz Ant1 Ref



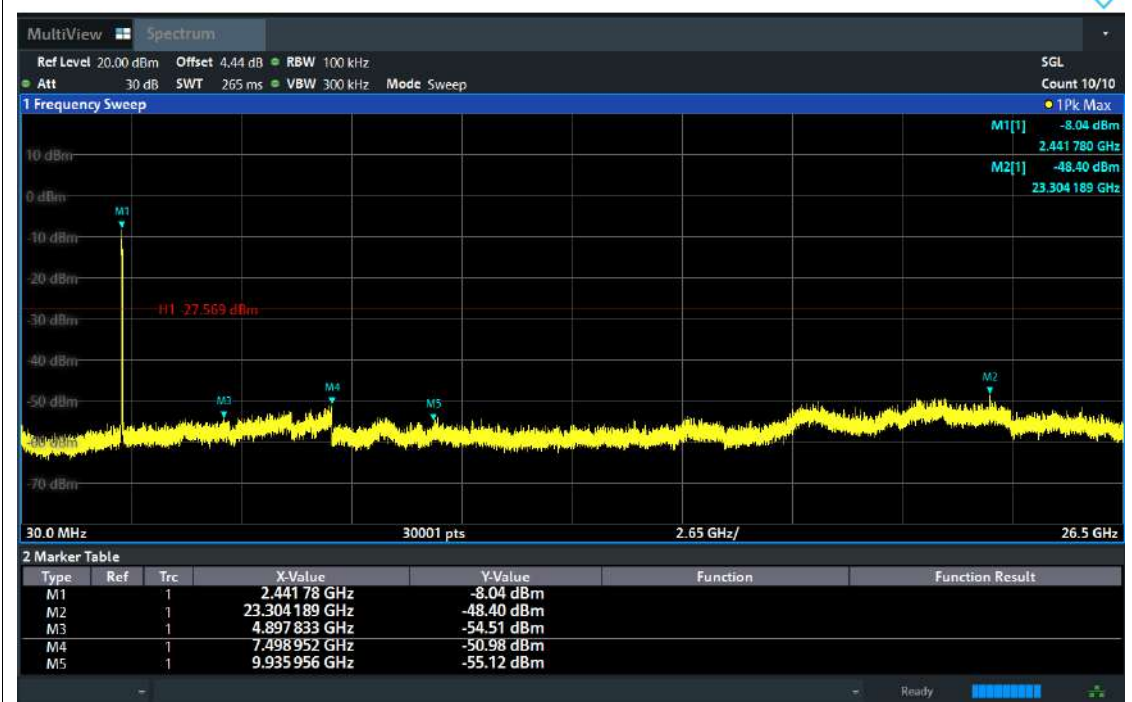
Tx. Spurious NVNT n40 2437MHz Ant1 Emission



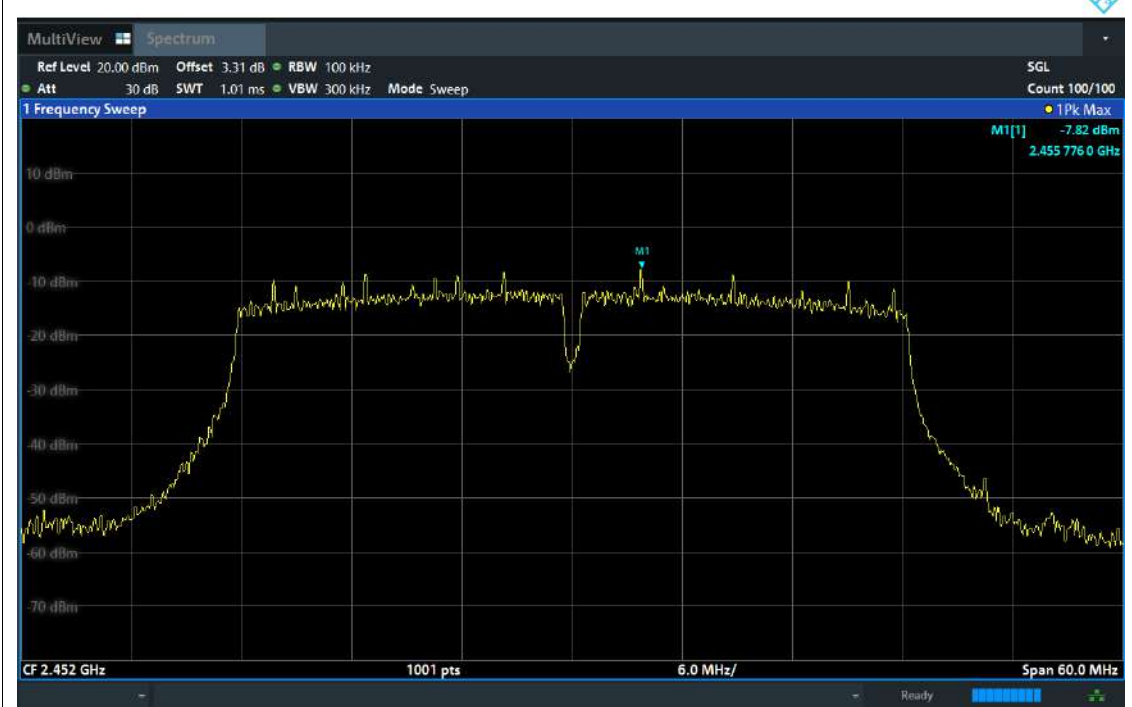
Tx. Spurious NVNT n40 2437MHz Ant2 Ref



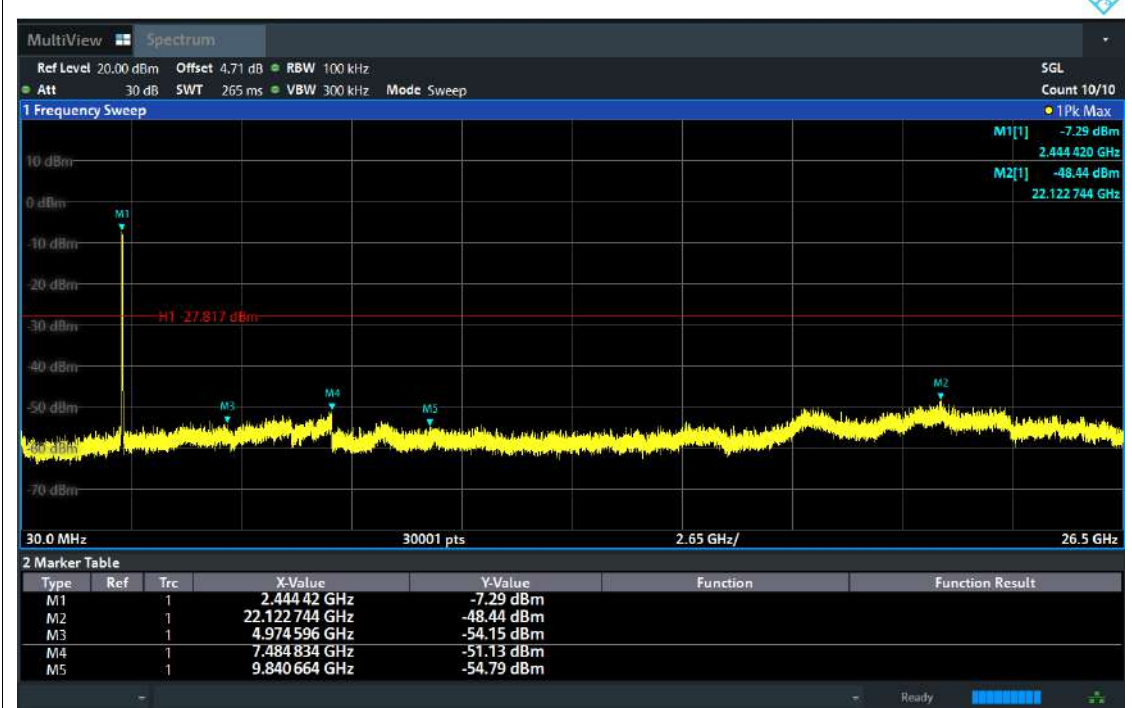
Tx. Spurious NVNT n40 2437MHz Ant2 Emission



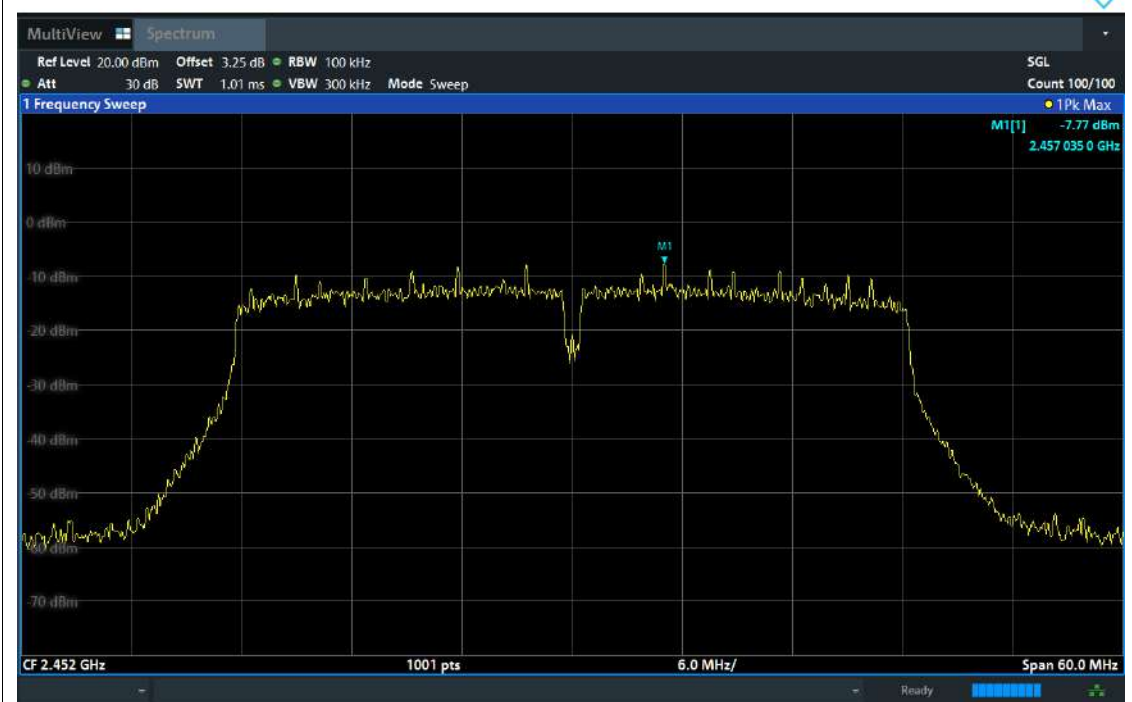
Tx. Spurious NVNT n40 2452MHz Ant1 Ref



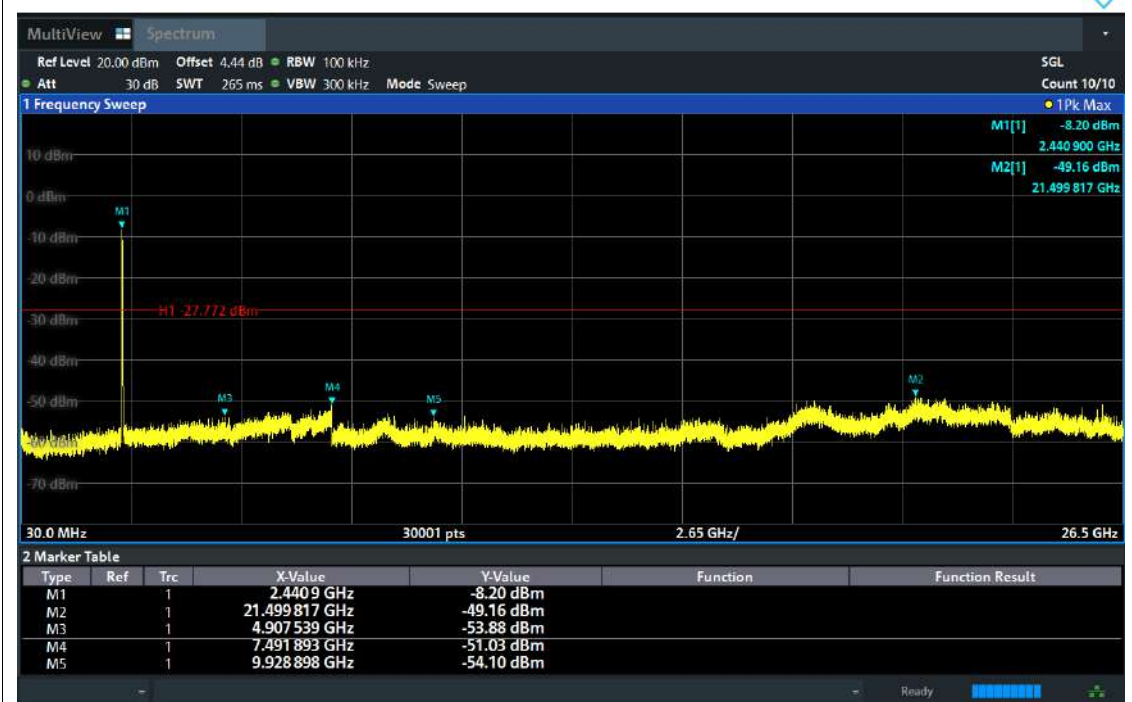
Tx. Spurious NVNT n40 2452MHz Ant1 Emission



Tx. Spurious NVNT n40 2452MHz Ant2 Ref



Tx. Spurious NVNT n40 2452MHz Ant2 Emission



Note: The margin meets the modified requirement of $10\log N$.

6 Photographs of the Test Setup

Radiated Emission Below 1GHz



Radiated Emission Above 1GHz



Conducted emission

7 Photographs of the EUT

Please refer to report HB20251229006E-01 for product photos.

******* END OF REPORT *******