



RADIO TEST REPORT

Applicant	:	LYSORA TECHNOLOGY INC.
Address of Applicant	:	8 THE GREEN, STE A, DOVER, KENT COUNTY, DELAWARE 19901, USA
Manufacturer	:	LYSORA TECHNOLOGY INC.
Address of Manufacturer	:	8 THE GREEN, STE A, DOVER, KENT COUNTY, DELAWARE 19901, USA
Equipment under Test	:	Wireless Access Point
Model No.	:	L2537
FCC ID	:	2BPSN-L2537
IC	:	34118-L2537
Test Standard(s)	:	FCC Rules and Regulations Part 15 Subpart C, ANSI C63.10-2020, RSS-247 Issue 4 July 24, 2025, ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+ Errata to C63.10a-2024 RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)
Report No.	:	DDT-RE25081332-1E01
Issue Date	:	2025/12/16
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

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Test Report Declare

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Test Standard Used:
FCC Rules and Regulations Part 15 Subpart C,
ANSI C63.10-2020,
RSS-247 Issue 4 July 24, 2025,
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024
RSS-Gen Issue 5, Apr. 2018, Amendment 2 (February 2021)

We Declare:
The equipment described above is tested by Guangdong Dongdian Testing Service Co., Ltd. and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and Guangdong Dongdian Testing Service Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

Report No.:	DDT-RE25081332-1E01		
Date of Receipt:	2025/09/18	Date of Test:	2025/09/18 - 2025/12/15

Created: Tiger Mo	Reviewed: Johnson Huang	Approved: Damon Hu
		
2025/12/15	2025/12/16	2025/12/16

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Guangdong Dongdian Testing Service Co., Ltd.

Revision History

Version	Revision Content	Issue Date	Approved
V0	Initial issue	2025/12/16	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6 dB Bandwidth and 99% Bandwidth	FCC Part 15: 15.247(a)(2), RSS-247 Issue 4 clause 6.3.1(a), RSS-Gen Issue 5 clause 6.7	/	Pass
2	Peak Output Power	FCC Part 15: 15.247(b)(3), RSS-247 Issue 4 clause 6.3.2	/	Pass
3	Power Spectral Density	FCC Part 15: 15.247(e), RSS-247 Issue 4 clause 6.3.1(b)	/	Pass
4	RF Conducted Spurious Emissions	FCC Part 15: 15.247(d), RSS-247 Issue 4 clause 6.6	/	Pass
5	Radiated Emission	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 4 clause 6.6, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
6	Band Edge Compliance	FCC Part 15: 15.205, FCC Part 15: 15.209, FCC Part 15: 15.247(d), RSS-247 Issue 4 clause 6.6, RSS-Gen Issue 5 clause 8.9, RSS-Gen Issue 5 clause 8.10	/	Pass
7	Antenna Requirement	FCC Part 15: 15.203, RSS-Gen Issue 5 clause 6.8	/	Pass
8	Power Line Conducted Emissions	FCC Part 15: 15.207(a), RSS-Gen Issue 5 clause 8.8	/	Pass
Note: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device or no need to test according to standard.				

2. General Test Information

2.1. Description of EUT

EUT Name	: Wireless Access Point
Model Number	: L2537
Difference of model number	: /
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 12V/2.5A, DC 44-57 V, 0.6 A (PoE IN)
Antenna Type	: PIFA antenna
Max Antenna Gain(dBi)	: Ant1 2.74dBi, Ant2 4.84dBi

Radio Technology	: IEEE 802.11b/g/n/ax/be
Operation frequency	: IEEE 802.11b: 2412MHz to 2462MHz IEEE 802.11g: 2412MHz to 2462MHz IEEE 802.11n HT20: 2412MHz to 2462MHz IEEE 802.11n HT40: 2422MHz to 2452MHz IEEE 802.11ax HE20: 2412MHz to 2462MHz IEEE 802.11ax HE40: 2422MHz to 2452MHz IEEE 802.11be EHT20: 2412MHz-2462MHz IEEE 802.11be EHT40: 2422MHz-2452MHz
Modulation	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ax: OFDM, OFDMA (1024QAM, 256QAM, 64QAM, 16QAM, QPSK, BPSK) IEEE 802.11be EHT20, EHT40: OFDMA (1024QAM, 64QAM, 16QAM, QPSK, BPSK)

Channel information					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
1	2412	5	2432	9	2452
2	2417	6	2437	10	2457
3	2422	7	2442	11	2462
4	2427	8	2447	/	/

For this device,

802.11 ax only support full RU mode.

802.11be support small size RU, as below,

Indices for Small Size MRUs in an OFDMA 20 MHz EHT PPDU

MRU type	MRU index	MRU combination
52+26-tone MRU	MRU 1	52-tone RU 2 + 26-tone RU 2
	MRU 2	52-tone RU 2 + 26-tone RU 5
	MRU 3	52-tone RU 3 + 26-tone RU 8
106+26-tone MRU	MRU 1	106-tone RU 1 + 26-tone RU 5
	MRU 2	106-tone RU 2 + 26-tone RU 5

Indices for Small Size MRUs in an OFDMA 40 MHz EHT PPDU

MRU type	MRU index	MRU combination
52+26-tone MRU	MRU 1	52-tone RU 2 + 26-tone RU 2
	MRU 2	52-tone RU 2 + 26-tone RU 5
	MRU 3	52-tone RU 3 + 26-tone RU 8
	MRU 4	52-tone RU 6 + 26-tone RU 11
	MRU 5	52-tone RU 6 + 26-tone RU 14
	MRU 6	52-tone RU 7 + 26-tone RU 17
106+26-tone MRU	MRU 1	106-tone RU 1 + 26-tone RU 5
	MRU 2	106-tone RU 2 + 26-tone RU 5
	MRU 3	106-tone RU 3 + 26-tone RU 14
	MRU 4	106-tone RU 4 + 26-tone RU 14

Note1: 1. 802.11be support full RU tone and partial RU tone, according to TCB Workshop, if Partial_RU PSD < Full_RU PSD, perform additional testing on that Partial_RU modes for band edge and spurious emissions.

2. According to above MRU combination, 52+26_Tone MRU (Index 1, 2 and 3) represents 52+26_Tone MRU (Index 4, 5 and 6), so Partial_RU modes tested MRU combination 52+26_Tone MRU (Index 1, 2 and 3), 106+26_Tone MRU (Index 1, 2, 3 and 4)

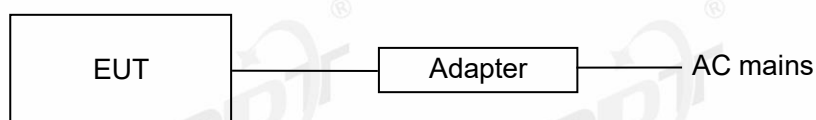
Note2: The above EUT information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications or User's Manual. The above Antenna information is declared by manufacturer and for more detailed features description please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

“☑” means to be chosen or applicable; “☐” means don't to be chosen or not applicable; This note applies to entire report.

2.2. Accessories of EUT

Accessories	Manufacturer	Model number	Description
/	/	/	/

2.3. Block diagram of EUT configuration for test



2.4. Decision of final test mode

According pre-test, the worst test modes were reported as below:

Test software: QATool_Dbg.exe

The test software was used to control EUT work in Continuous Tx mode and select test channel, wireless mode as below table.

The pathloss of external cable: 0.5dB (According to the manufacturer's claims)

Tested mode, Tx Power Setting, Data rate, Channel, and Frequency					
Tested mode	Tx Power Setting		Data rate (Mbps) (see Note)	Test Channel	Frequency (MHz)
	ANT1	ANT2			
IEEE 802.11b	21	21	1	LCH: CH1	2412
	21	21	1	MCH: CH6	2437
	21	21	1	HCH: CH11	2462
IEEE 802.11g	17	17	6	LCH: CH1	2412
	17	17	6	MCH: CH6	2437
	17	17	6	HCH: CH11	2462
IEEE 802.11n HT20	15.5	15.5	MCS 8	LCH: CH1	2412
	15.5	15.5	MCS 8	MCH: CH6	2437
	15.5	15.5	MCS 8	HCH: CH11	2462
IEEE 802.11n HT40	14	14	MCS 8	LCH: CH3	2422
	14	14	MCS 8	MCH: CH6	2437
	14	14	MCS 8	HCH: CH9	2452
IEEE 802.11ax HE20	15	15	MCS 0	LCH: CH1	2412
	15	15	MCS 0	MCH: CH6	2437
	15	15	MCS 0	HCH: CH11	2462
IEEE 802.11ax HE40	14.5	14.5	MCS 0	LCH: CH3	2422
	14.5	14.5	MCS 0	MCH: CH6	2437
	14.5	14.5	MCS 0	HCH: CH9	2452
IEEE 802.11be EHT20	15	15	MCS 0	LCH: CH1	2412
	15	15	MCS 0	MCH: CH6	2437
	15	15	MCS 0	HCH: CH11	2462
IEEE 802.11be EHT40	15	15	MCS 0	LCH: CH3	2422
	15	15	MCS 0	MCH: CH6	2437
	15	15	MCS 0	HCH: 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.					

2.5. Deviations of test standard

No deviation.

2.6. Test environment conditions

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

Temperature range:	+15°C to +35 °C
Humidity range:	20% to 75%
Pressure range:	86 kPa to106 kPa

Note: The specific temperature and humidity information of each test item refers to the temperature and humidity record in the corresponding test data.

2.7. Test laboratory

Guangdong Dongdian Testing Service Co., Ltd.

Add.: Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808.

Tel.: +86-0769-38826678, <http://www.dgddt.com>, Email: ddt@dgddt.com.

CNAS Accreditation No. L6451; A2LA Accreditation Number: 3870.01

FCC Designation Number: CN1182, Test Firm Registration Number: 540522

Innovation, Science and Economic Development Canada Site Registration Number: 10288A

Conformity Assessment Body identifier: CN0048

VCCI facility registration number: C-20087, T-20088, R-20123, R-20240, G-20118

2.8. Measurement uncertainty

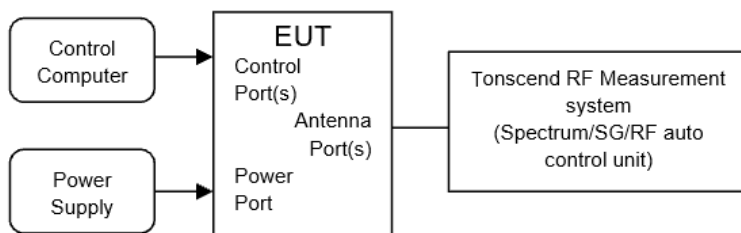
Test Item	Uncertainty
Bandwidth	1.1%
Peak Output Power (Conducted) (Spectrum analyzer)	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Peak Output Power (Conducted) (Power Sensor)	0.74 dB
Power Spectral Density	0.74 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.38 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$)
Frequencies Stability	6.7×10^{-8} (Antenna couple method) 5.5×10^{-8} (Conducted method)
Conducted spurious emissions	0.86 dB ($10 \text{ MHz} \leq f < 3.6 \text{ GHz}$); 1.40 dB ($3.6 \text{ GHz} \leq f < 8 \text{ GHz}$) 1.66 dB ($8 \text{ GHz} \leq f < 26.5 \text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	3×10^{-8}
Temperature	0.4 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.70 dB (Antenna Polarize: V) 4.84 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.10 dB (1 - 6 GHz) 4.40 dB (6 GHz - 18 GHz) 3.54 dB (18 GHz - 26 GHz) 4.30 dB (26 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.34dB (150KHz-30MHz) 3.72dB (9KHz-150KHz)
Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

3. Equipment Used During Conductive Test

Equipment	Manufacturer	Model No.	Serial Number	Due Date
☑RF Connected Test (RF Measurement System 3#)				
SIGNAL ANALYZER	R&S	FSV40	101407	2026/07/06
Wideband Radio Communication Tester	R&S	CMW500	117491	2026/03/28
EXG Analog Signal Generator	KEYSIGHT	N5173B	MY62153058	2026/07/06
MXG Vector Signal Generator	Agilent	N5182A	MY48180912	2026/03/28
RF Control Unit	Tonscend	JS0806-2	20C8060230	2026/03/28
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28
Test Software	Tonscend	JS1120-3	V3.6.21	N/A

4. 6dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

For direct sequence systems, the minimum 6 dB bandwidth shall be at least 500 kHz

4.3. Test procedure

- (1) The test according to ANSI C63.10 clause 11.8.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for 6 dB Bandwidth:

RBW:	100 kHz
VBW:	$\geq [3 \times \text{RBW}]$
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

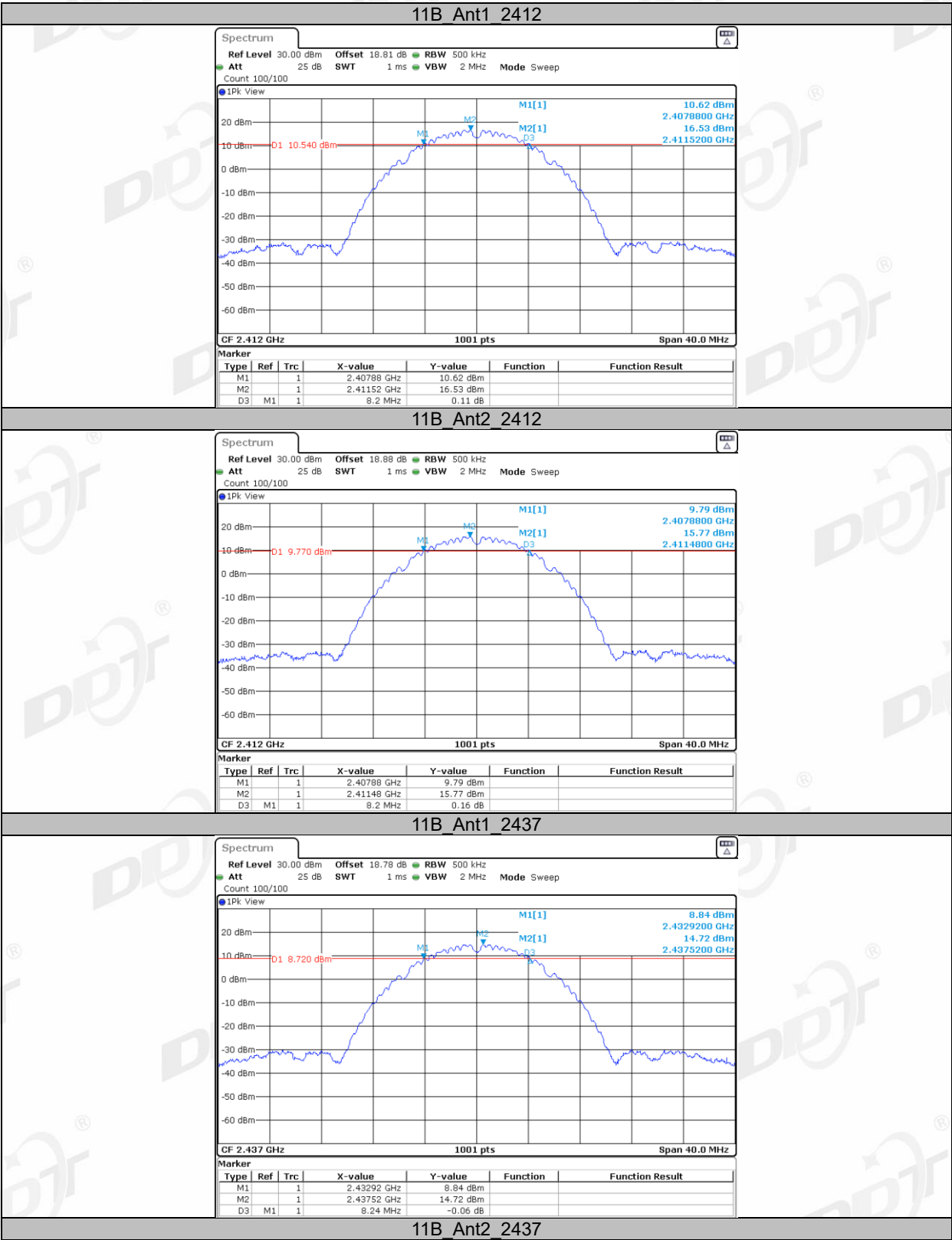
Allow the trace to stabilize, measure the 6 dB bandwidth of signal, and record the results in the report

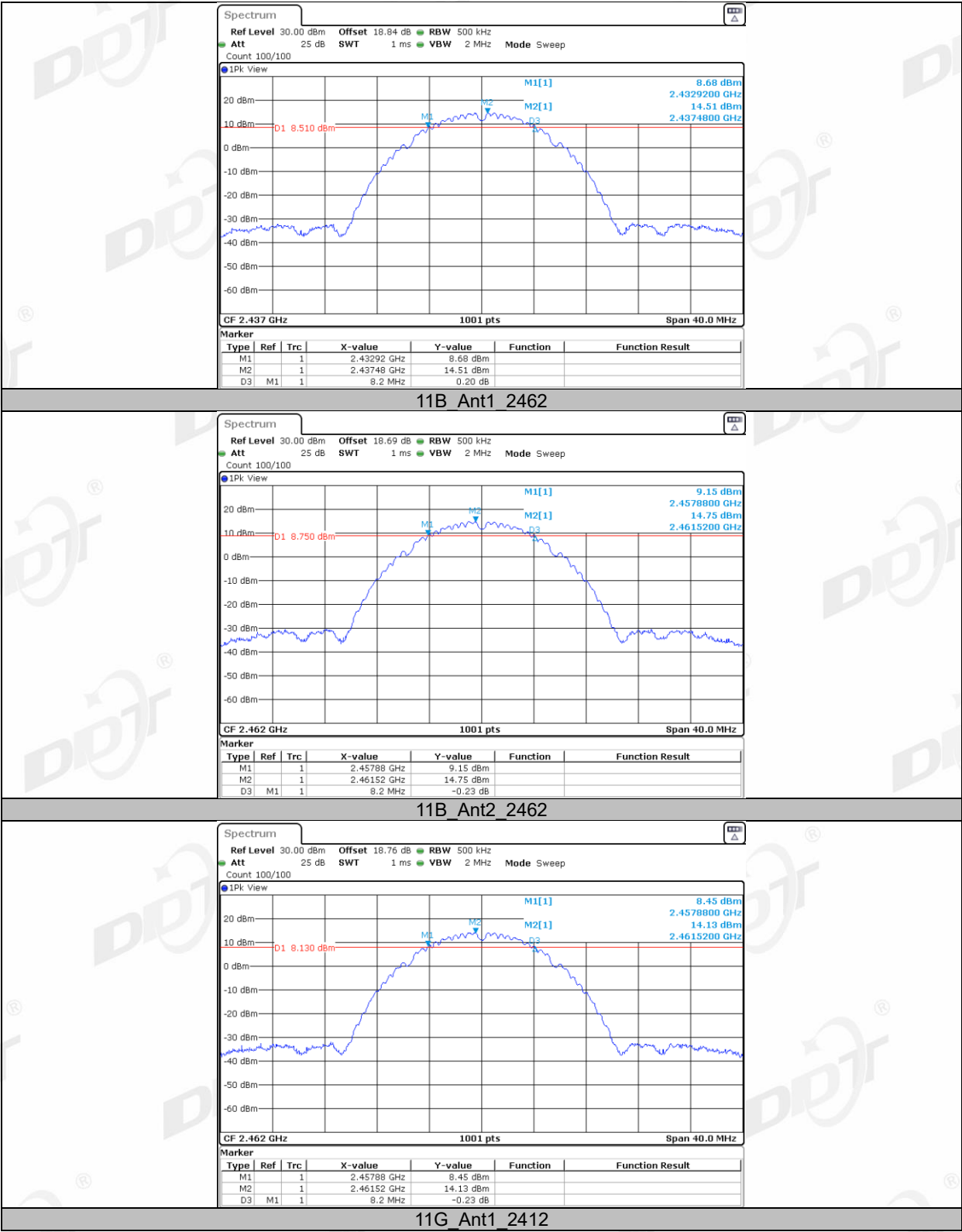
4.4. Test result

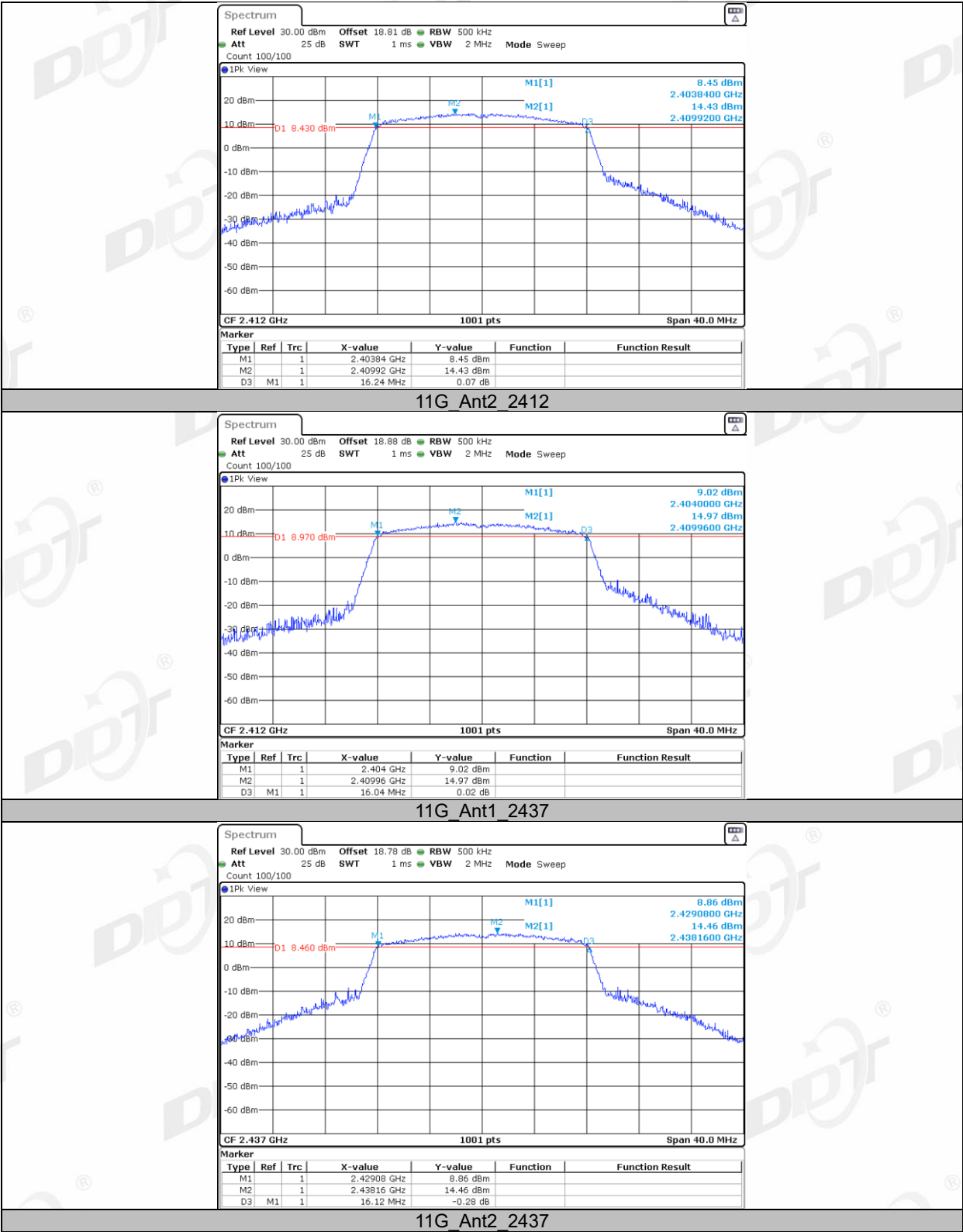
Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.4℃,39.4%RH	Test Date:	2025/09/18 - 2025/12/06
Test Power Supply:	AC 120V	Sample Number:	s25081332-003

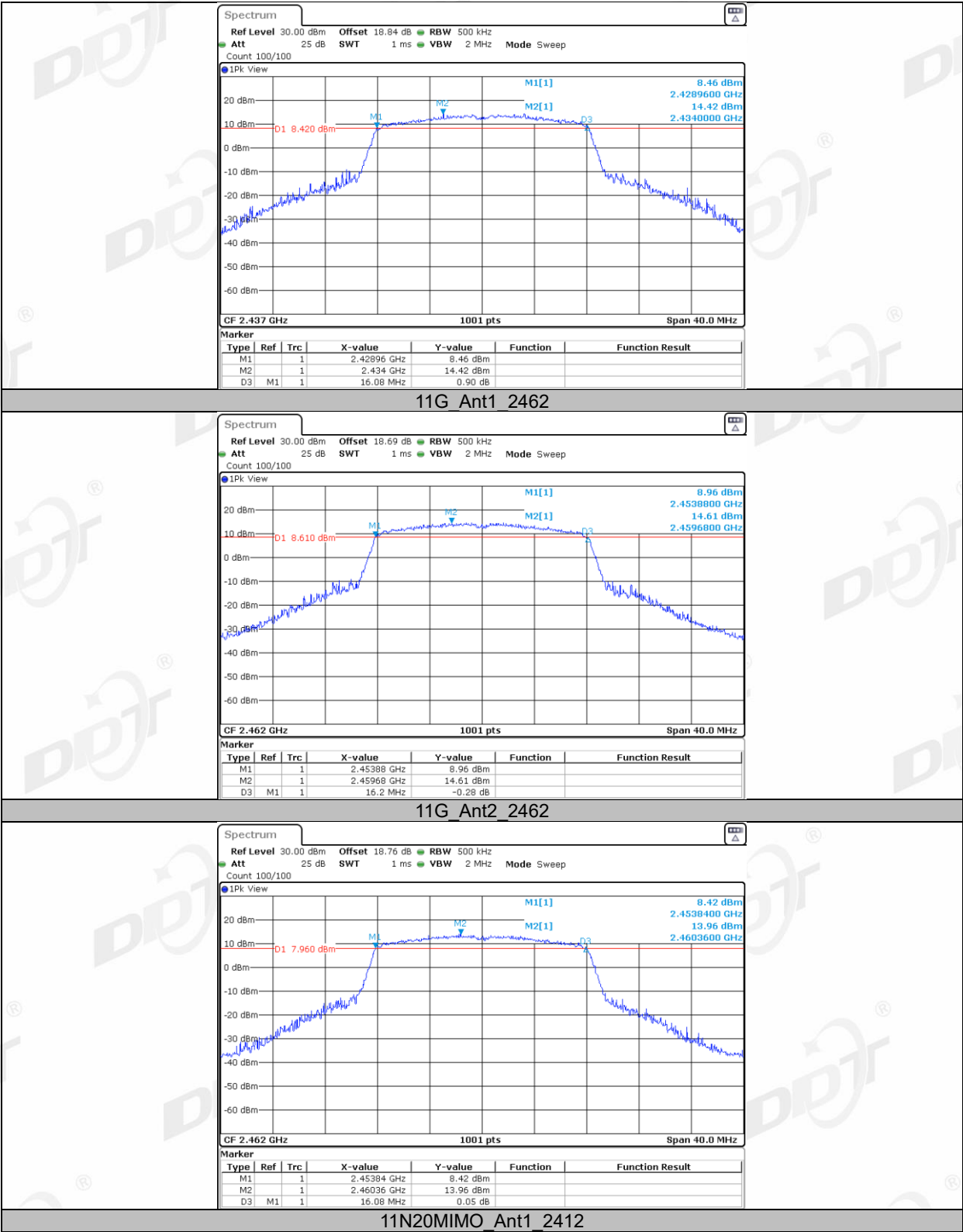
Test Mode	Antenna	Frequency [MHz]	DTS BW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11B	Ant1	2412	8.20	2407.88	2416.08	0.5	PASS
	Ant2	2412	8.20	2407.88	2416.08	0.5	PASS
	Ant1	2437	8.24	2432.92	2441.16	0.5	PASS
	Ant2	2437	8.20	2432.92	2441.12	0.5	PASS
	Ant1	2462	8.20	2457.88	2466.08	0.5	PASS
	Ant2	2462	8.20	2457.88	2466.08	0.5	PASS
11G	Ant1	2412	16.24	2403.84	2420.08	0.5	PASS
	Ant2	2412	16.04	2404.00	2420.04	0.5	PASS
	Ant1	2437	16.12	2429.08	2445.20	0.5	PASS
	Ant2	2437	16.08	2428.96	2445.04	0.5	PASS
	Ant1	2462	16.20	2453.88	2470.08	0.5	PASS
	Ant2	2462	16.08	2453.84	2469.92	0.5	PASS
11N20MI MO	Ant1	2412	17.32	2403.32	2420.64	0.5	PASS
	Ant2	2412	17.16	2403.40	2420.56	0.5	PASS
	Ant1	2437	16.72	2428.68	2445.40	0.5	PASS
	Ant2	2437	16.72	2428.68	2445.40	0.5	PASS
	Ant1	2462	16.80	2453.56	2470.36	0.5	PASS
	Ant2	2462	16.60	2453.64	2470.24	0.5	PASS
11N40MI MO	Ant1	2422	33.84	2404.80	2438.64	0.5	PASS
	Ant2	2422	34.96	2404.56	2439.52	0.5	PASS
	Ant1	2437	34.64	2420.04	2454.68	0.5	PASS
	Ant2	2437	34.40	2420.20	2454.60	0.5	PASS
	Ant1	2452	27.92	2437.20	2465.12	0.5	PASS
	Ant2	2452	32.00	2436.32	2468.32	0.5	PASS
11AX20M IMO	Ant1	2412	18.44	2402.72	2421.16	0.5	PASS
	Ant2	2412	18.24	2402.96	2421.20	0.5	PASS
	Ant1	2437	18.56	2427.80	2446.36	0.5	PASS
	Ant2	2437	18.52	2427.80	2446.32	0.5	PASS
	Ant1	2462	18.36	2452.80	2471.16	0.5	PASS
	Ant2	2462	18.12	2452.80	2470.92	0.5	PASS
11AX40M IMO	Ant1	2422	34.56	2404.96	2439.52	0.5	PASS
	Ant2	2422	35.44	2403.44	2438.88	0.5	PASS
	Ant1	2437	36.00	2419.64	2455.64	0.5	PASS
	Ant2	2437	36.32	2419.32	2455.64	0.5	PASS
	Ant1	2452	28.64	2437.20	2465.84	0.5	PASS
	Ant2	2452	26.80	2438.80	2465.60	0.5	PASS
11BE20M IMO	Ant1	2412	18.28	2402.72	2421.00	0.5	PASS
	Ant2	2412	17.64	2403.28	2420.92	0.5	PASS
	Ant1	2437	18.68	2427.72	2446.40	0.5	PASS
	Ant2	2437	17.92	2428.20	2446.12	0.5	PASS
	Ant1	2462	18.60	2452.64	2471.24	0.5	PASS
	Ant2	2462	18.20	2452.92	2471.12	0.5	PASS
11BE40M IMO	Ant1	2422	36.32	2404.24	2440.56	0.5	PASS
	Ant2	2422	34.16	2405.52	2439.68	0.5	PASS
	Ant1	2437	37.20	2418.52	2455.72	0.5	PASS
	Ant2	2437	35.84	2419.56	2455.40	0.5	PASS
	Ant1	2452	31.68	2435.52	2467.20	0.5	PASS
	Ant2	2452	25.52	2439.44	2464.96	0.5	PASS

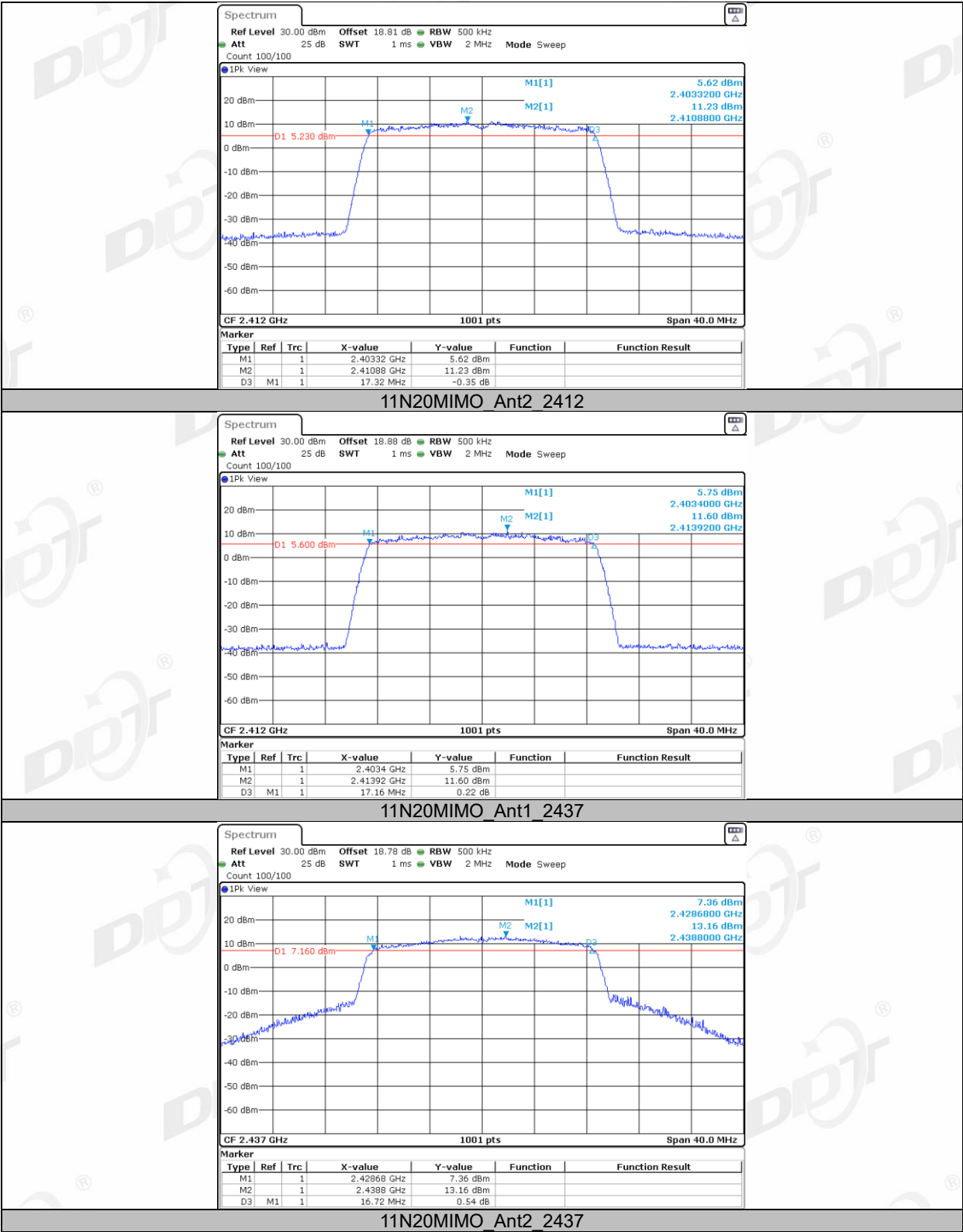
4.5. Test graphs

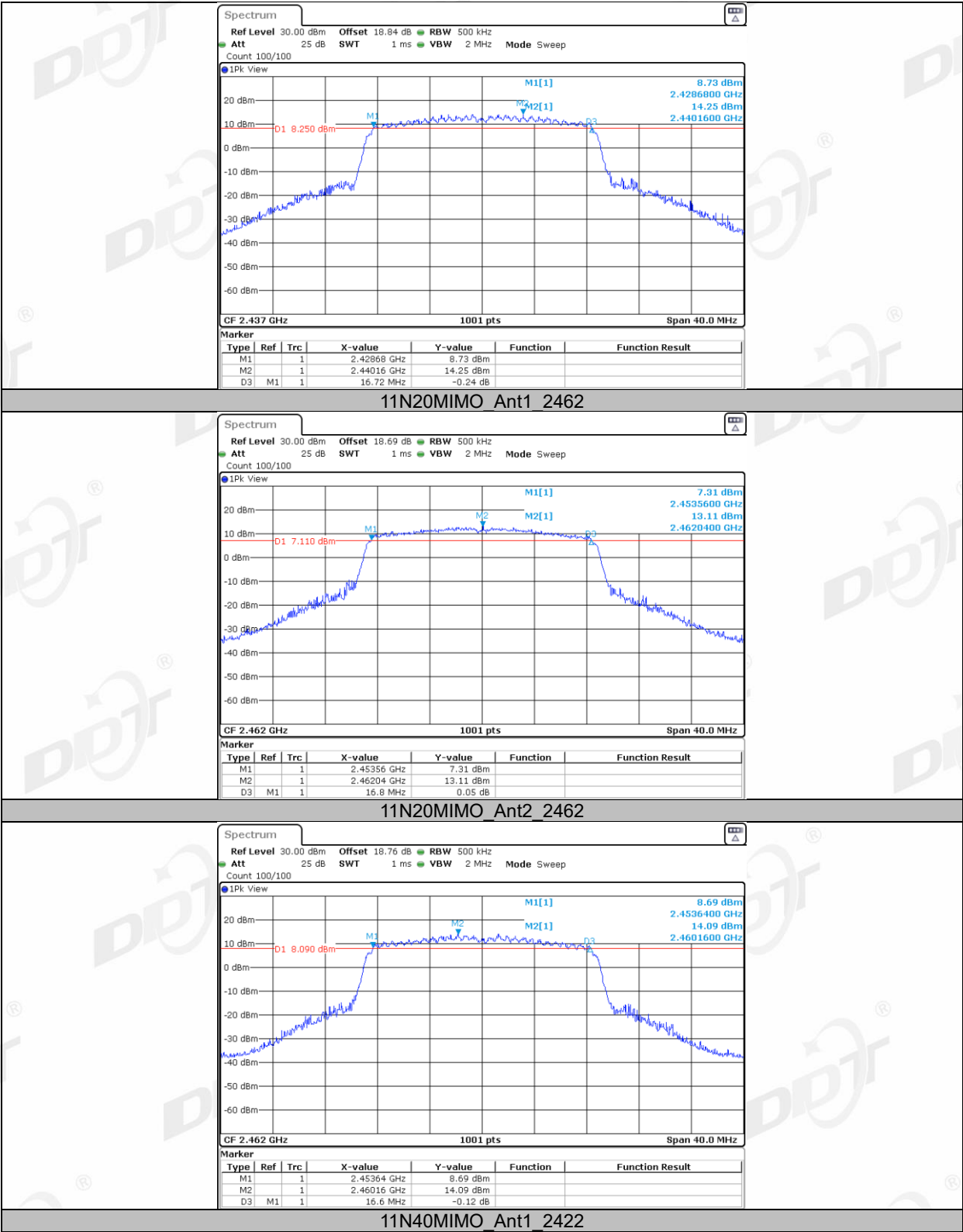


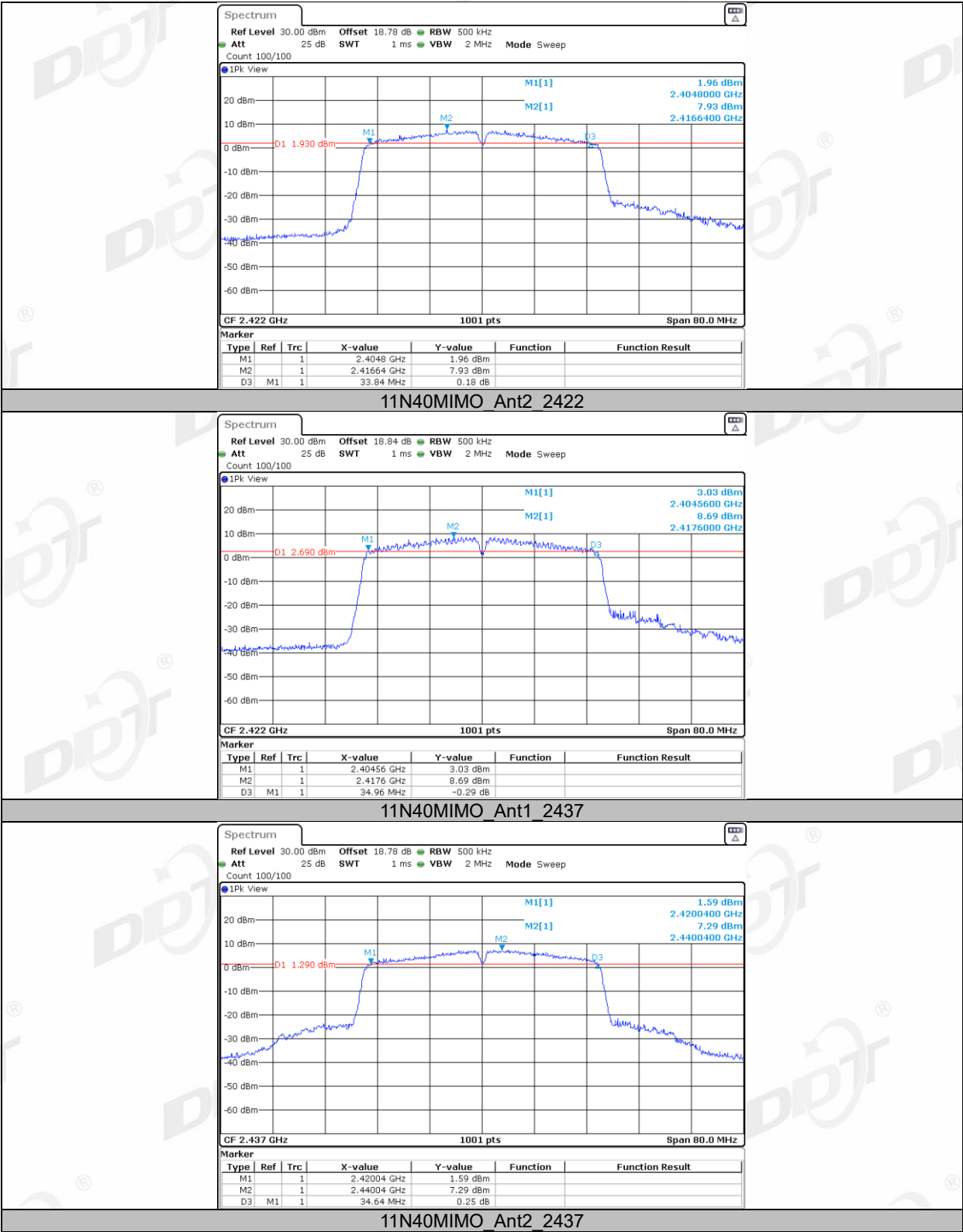


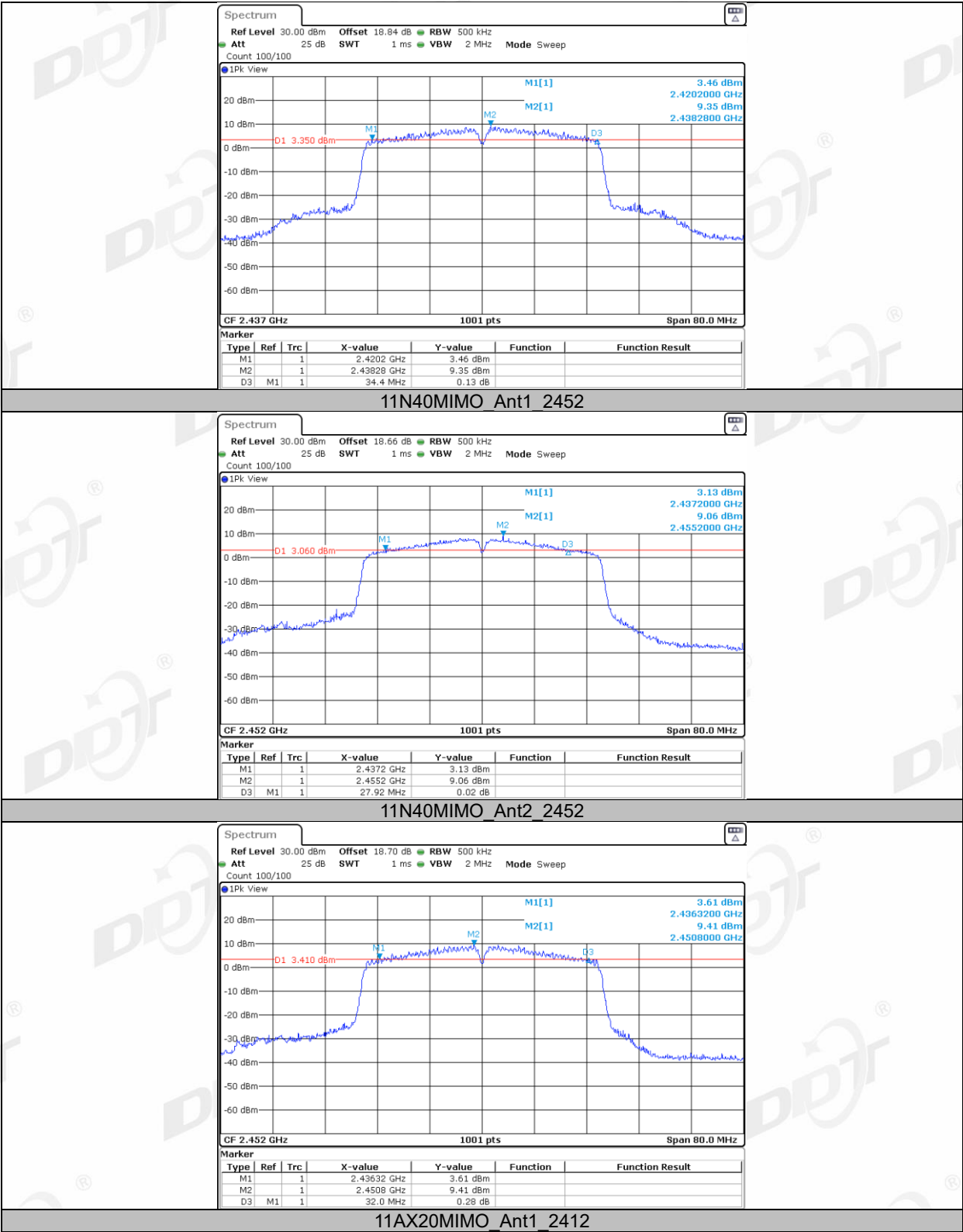


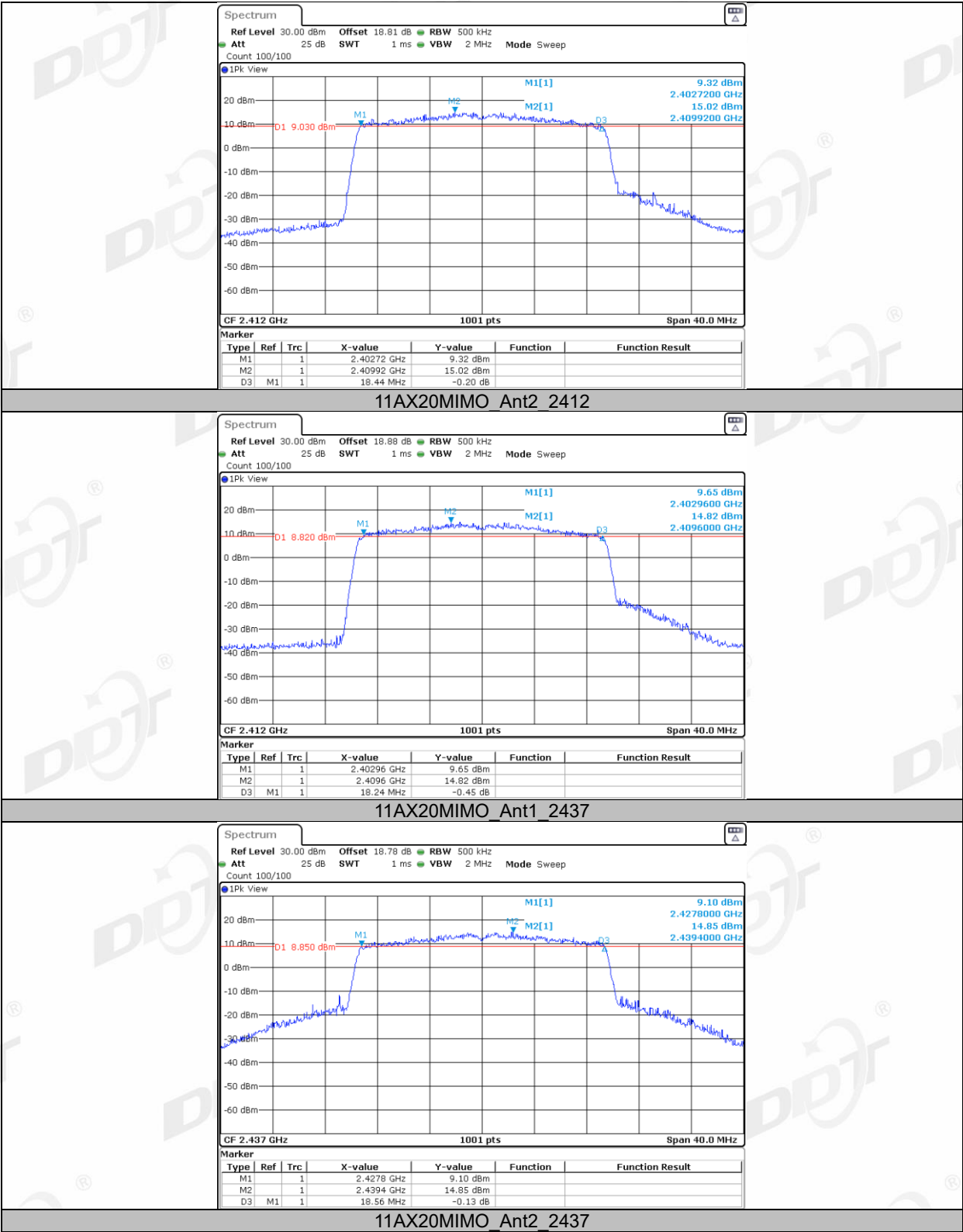


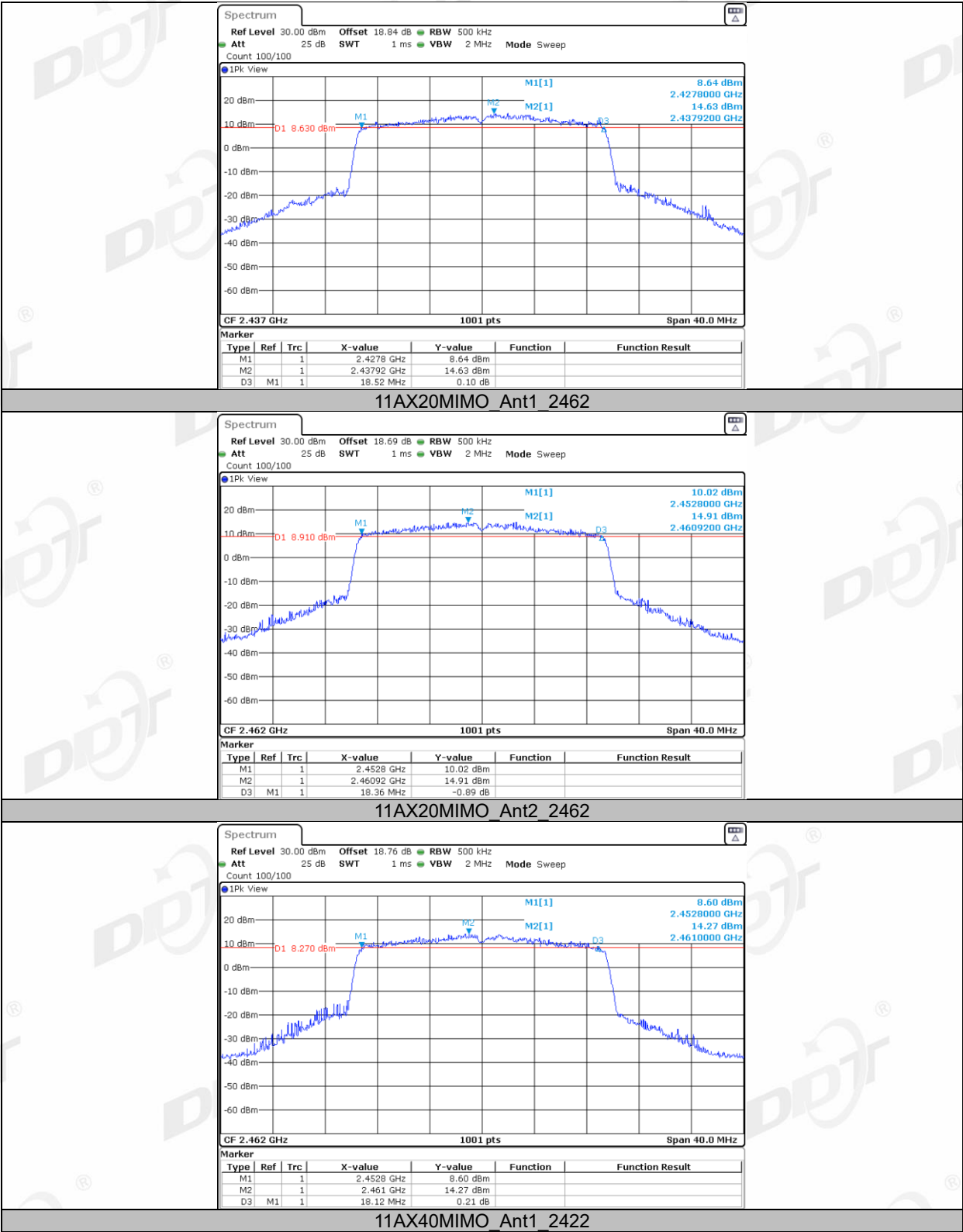


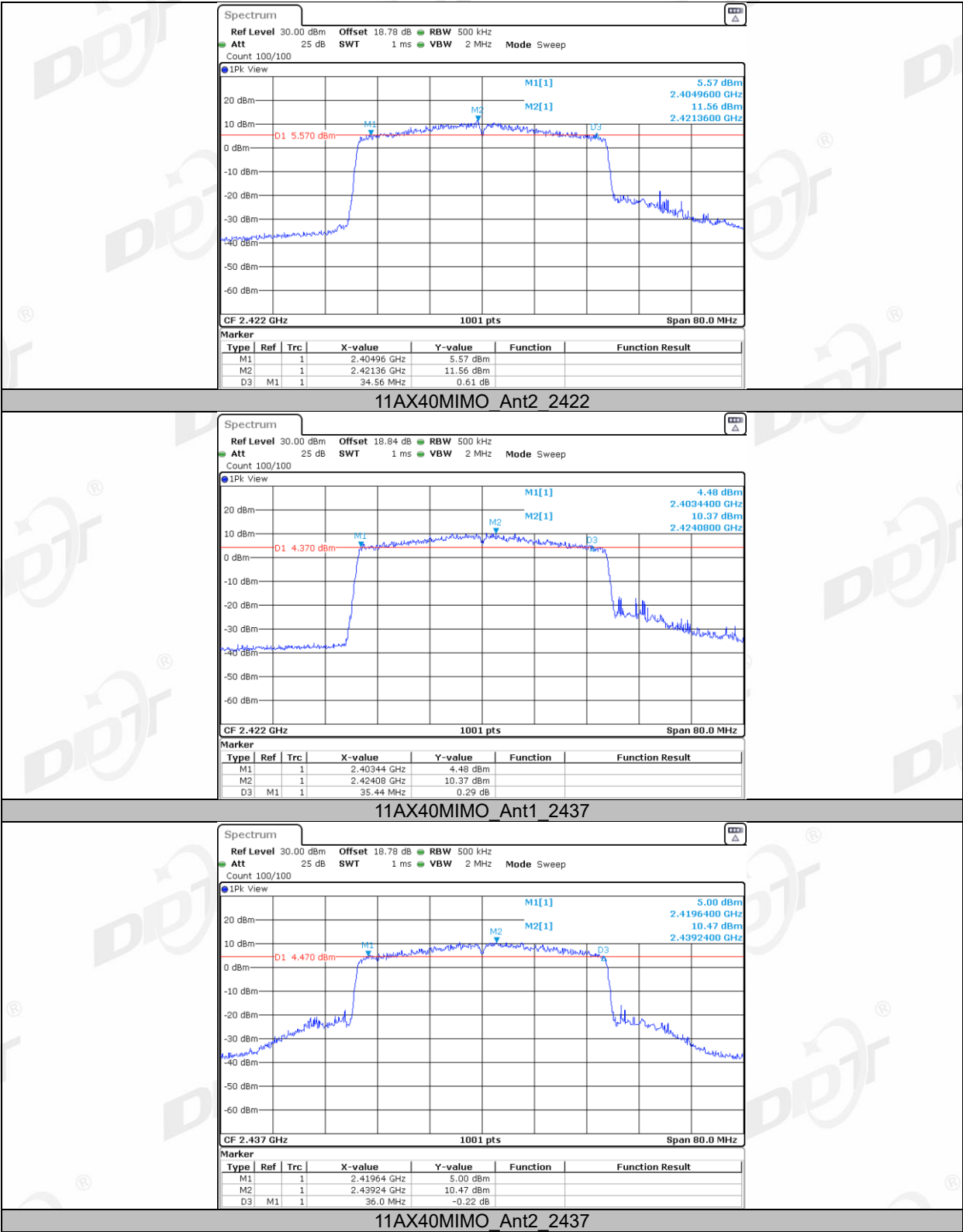


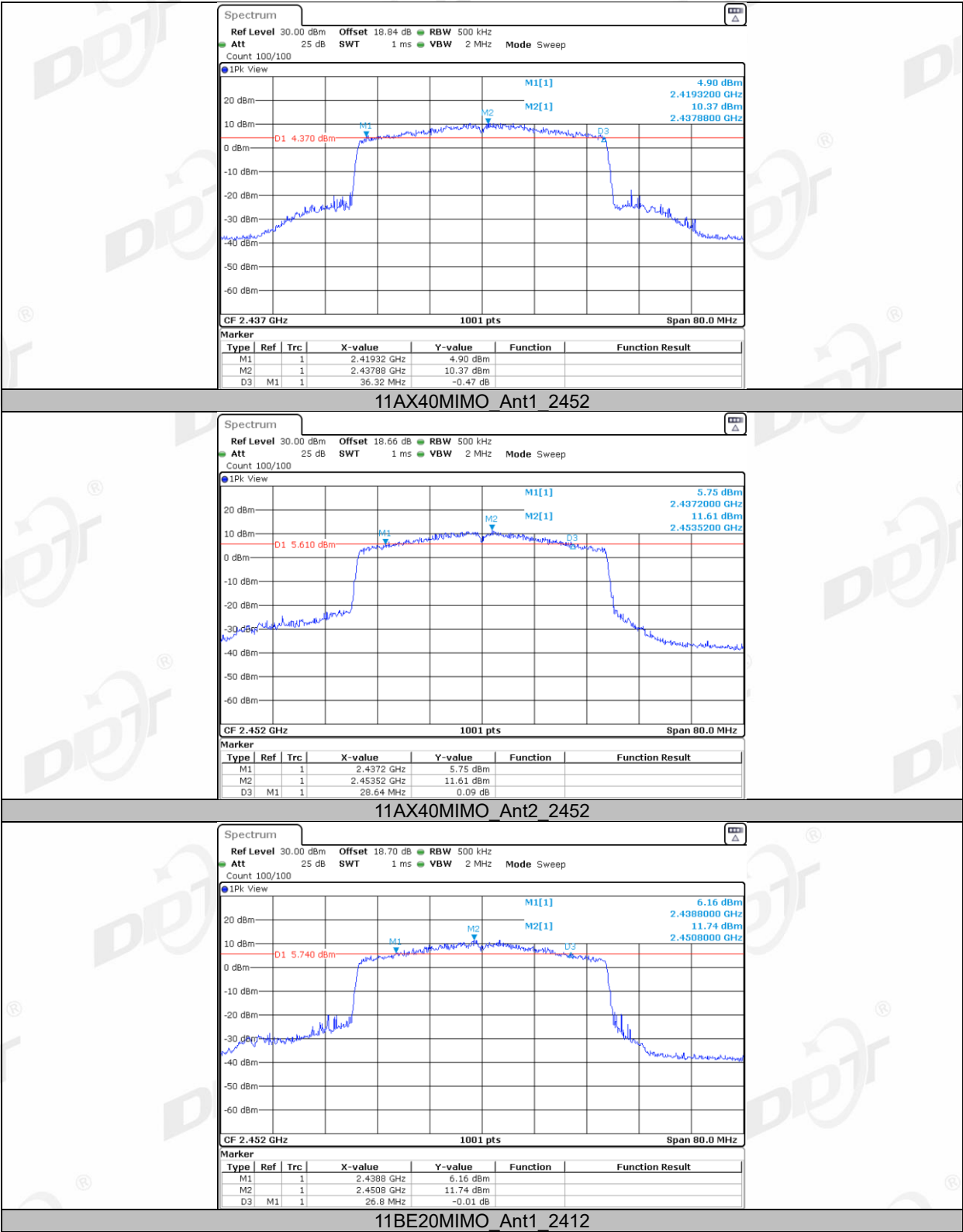


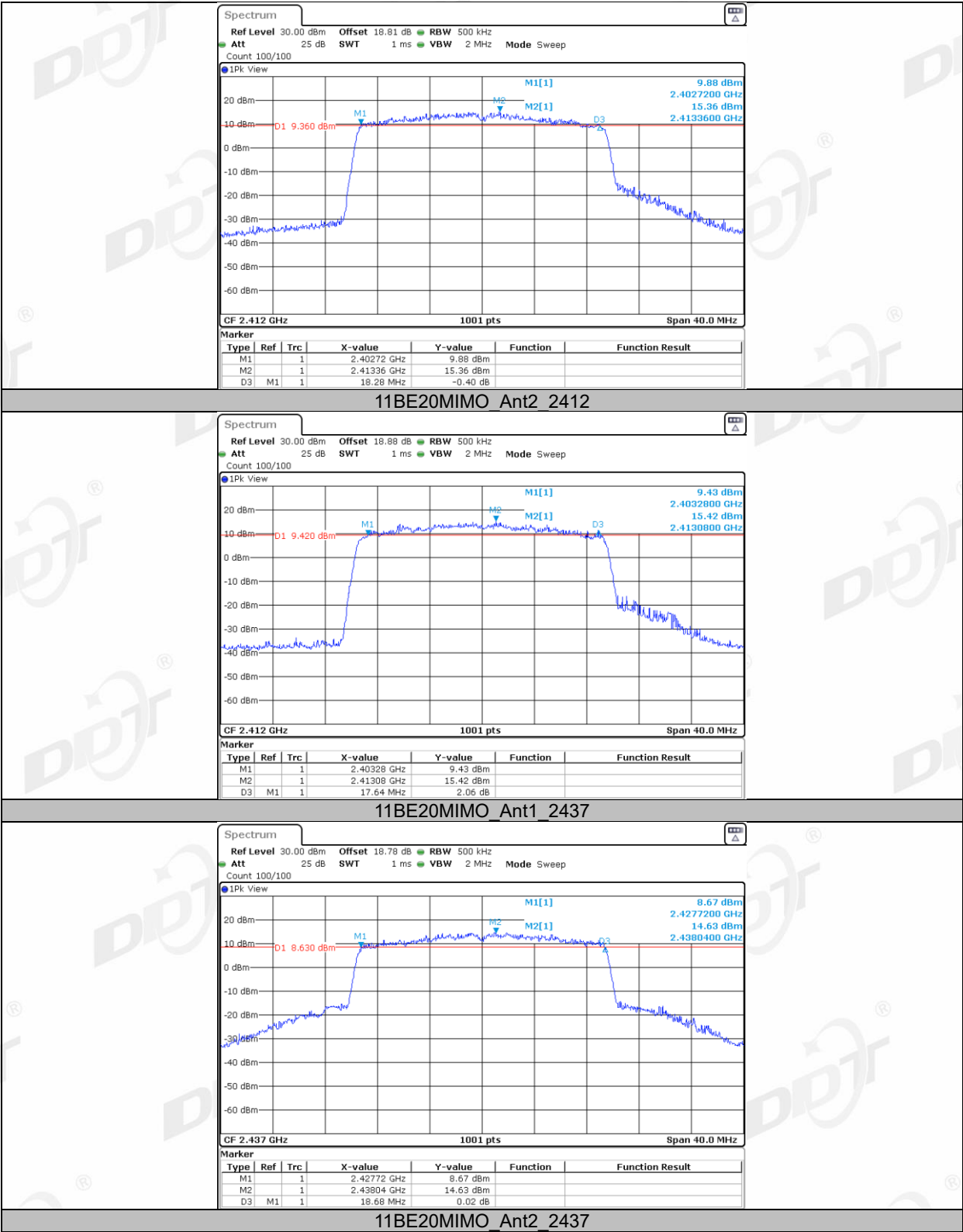


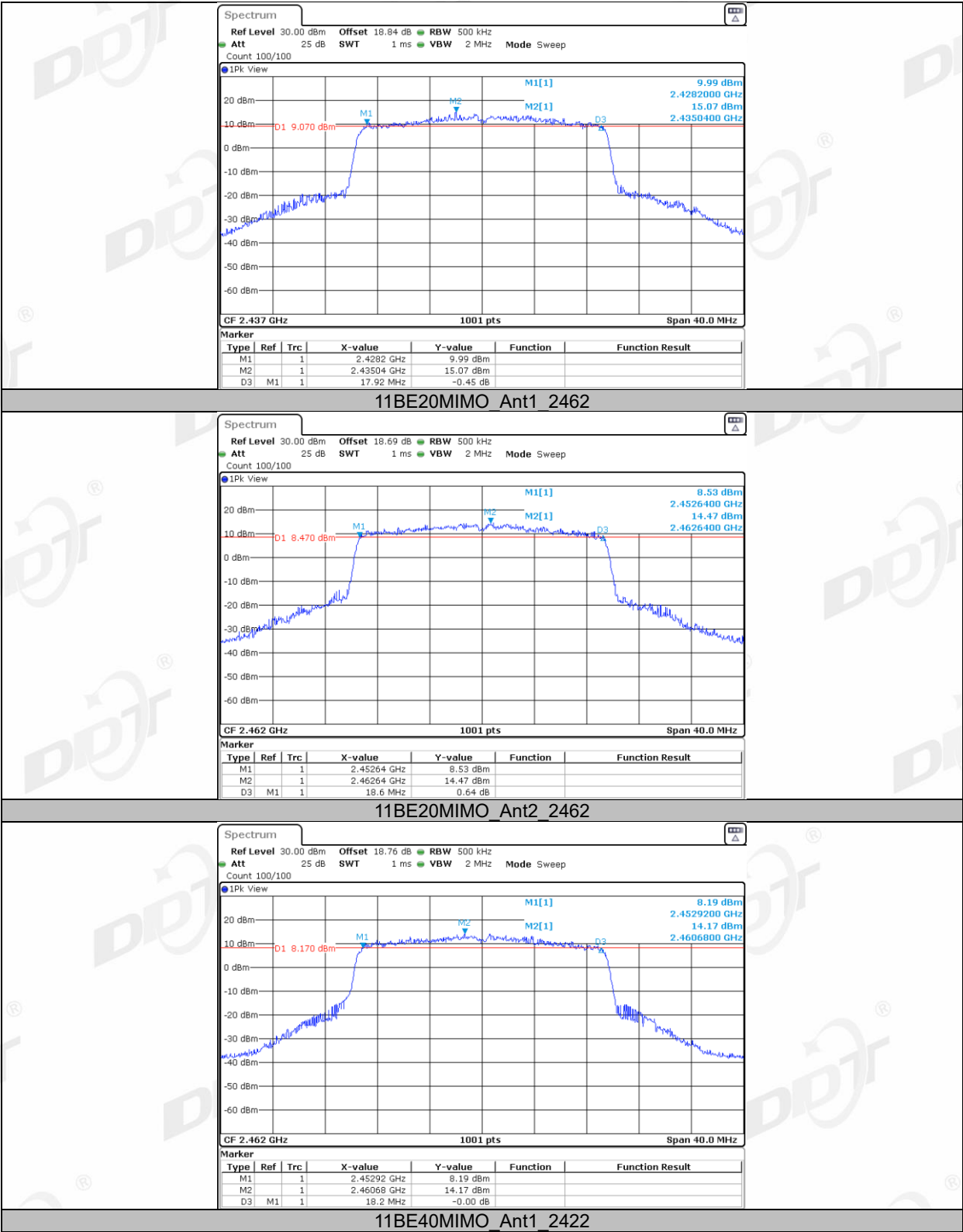


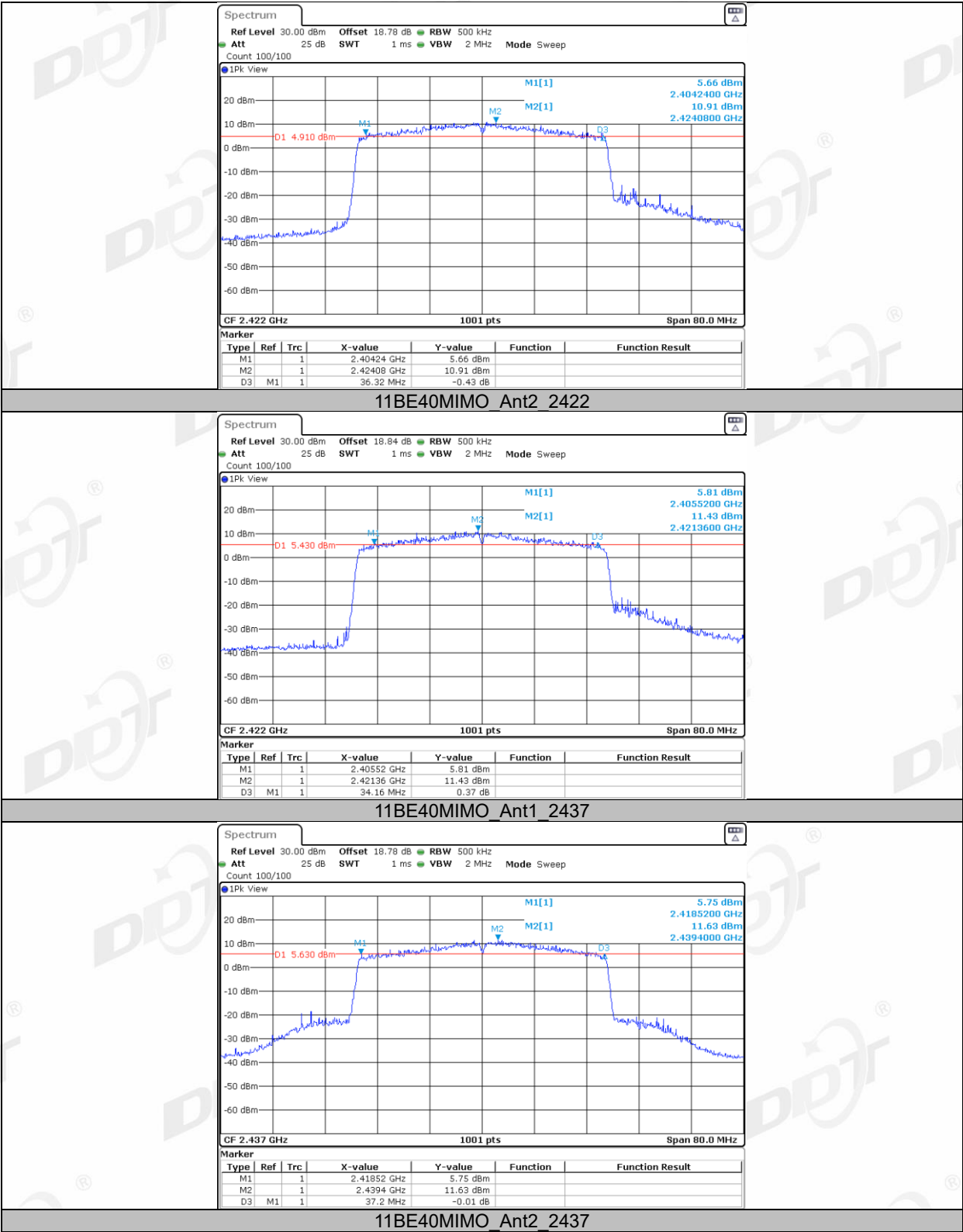


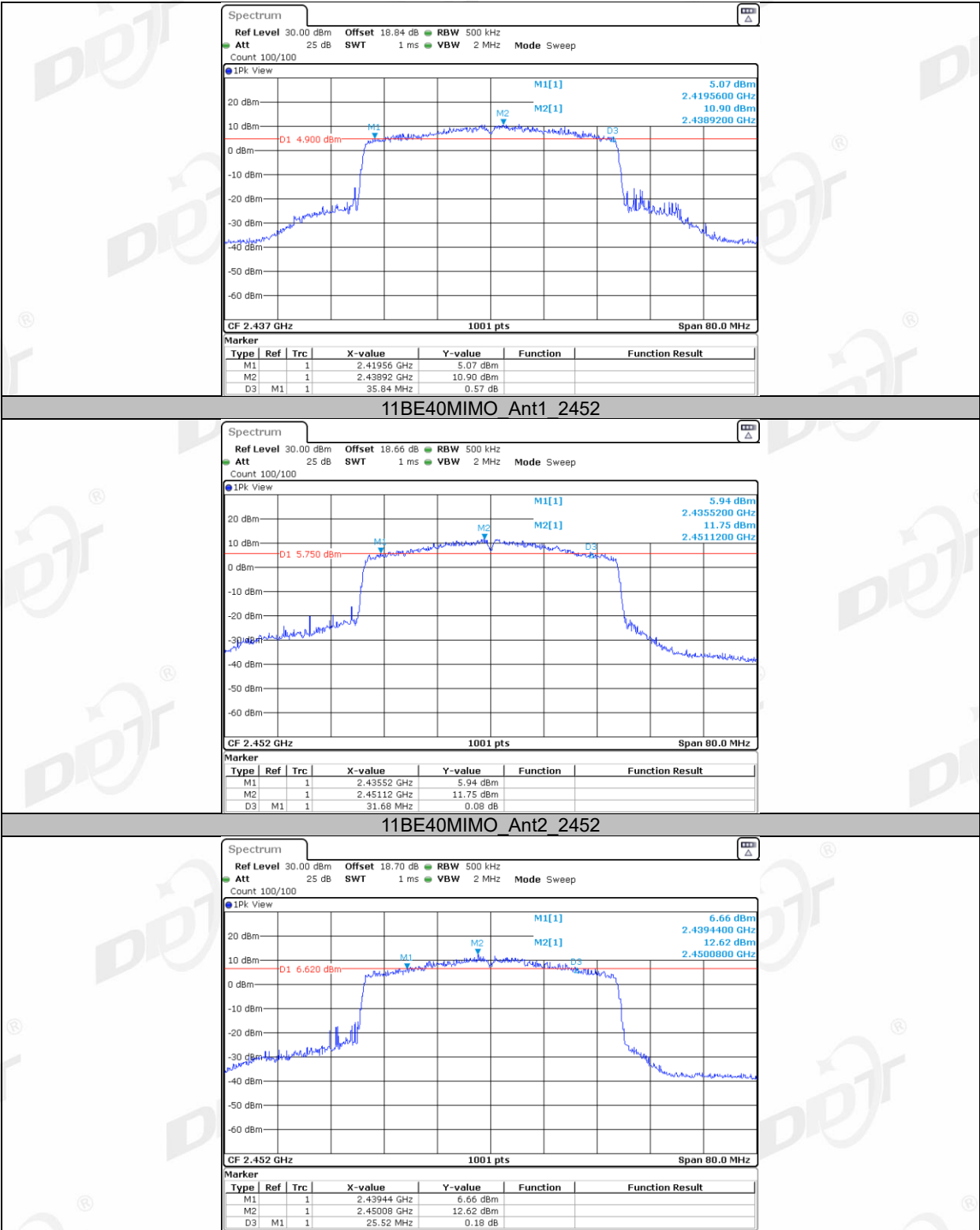






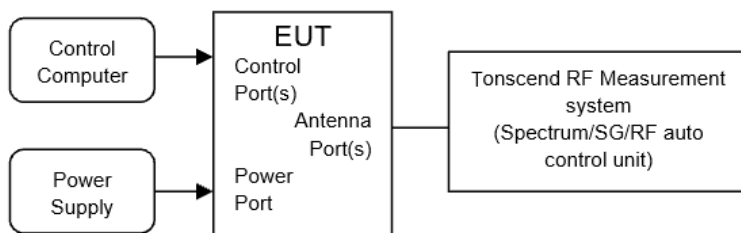






5. 99% Bandwidth

5.1. Block diagram of test setup



5.2. Limits

Just for Report.

5.3. Test procedure

- (1) The test according to ANSI C63.10 clause 6.9.3.
- (2) Connect EUT's antenna output to spectrum analyzer by RF cable, the path loss was compensated to the results
- (3) Set the EUT as maximum power setting and enable the EUT transmit continuously
- (4) Use the following spectrum analyzer settings for the 99% Bandwidth:

RBW:	1% to 5% of the OBW
VBW:	approximately three times RBW
Span:	between 1.5 times and 5.0 times the OBW
Detector Mode:	peak
Sweep time:	auto
Trace mode	max hold

Allow the trace to stabilize, measure the 99% bandwidth of signal, and record the results in the report.

5.4. Test result

Test Engineer:	Zeng Zhongyao	Test Site:	RF Measurement System 3#
Ambient Condition:	24.4℃,39.4%RH	Test Date:	2025/09/18 - 2025/12/06
Test Power Supply:	AC 120V	Sample Number:	s25081332-003

TestMode	Antenna	Channel Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant1	2412	12.468	2405.7263	2418.1938	---	---
	Ant2	2412	12.388	2405.7662	2418.1538	---	---
	Ant1	2437	12.547	2430.8062	2443.3536	---	---
	Ant2	2437	12.428	2430.8462	2443.2737	---	---
	Ant1	2462	12.547	2455.6464	2468.1938	---	---
	Ant2	2462	12.468	2455.6863	2468.1538	---	---
11G	Ant1	2412	16.384	2403.7682	2420.1518	---	---
	Ant2	2412	16.424	2403.7682	2420.1918	---	---
	Ant1	2437	16.503	2428.7682	2445.2717	---	---
	Ant2	2437	16.503	2428.7682	2445.2717	---	---
	Ant1	2462	16.464	2453.7283	2470.1918	---	---
	Ant2	2462	16.464	2453.7283	2470.1918	---	---
11N20MI MO	Ant1	2412	17.502	2403.2088	2420.7113	---	---
	Ant2	2412	17.542	2403.2088	2420.7512	---	---
	Ant1	2437	17.463	2428.2887	2445.7512	---	---
	Ant2	2437	17.383	2428.3287	2445.7113	---	---
	Ant1	2462	17.463	2453.2088	2470.6713	---	---
	Ant2	2462	17.383	2453.2488	2470.6314	---	---
11N40MI MO	Ant1	2422	35.644	2404.1778	2439.8222	---	---
	Ant2	2422	35.564	2404.1778	2439.7423	---	---
	Ant1	2437	35.644	2419.1778	2454.8222	---	---
	Ant2	2437	35.564	2419.2577	2454.8222	---	---
	Ant1	2452	35.405	2434.2577	2469.6623	---	---
	Ant2	2452	35.325	2434.3377	2469.6623	---	---
11AX20M IMO	Ant1	2412	18.701	2402.6094	2421.3107	---	---
	Ant2	2412	18.741	2402.6094	2421.3506	---	---
	Ant1	2437	18.741	2427.6494	2446.3906	---	---
	Ant2	2437	18.781	2427.6094	2446.3906	---	---
	Ant1	2462	18.741	2452.6094	2471.3506	---	---
	Ant2	2462	18.741	2452.5694	2471.3107	---	---
11AX40M IMO	Ant1	2422	37.403	2403.2987	2440.7013	---	---
	Ant2	2422	37.403	2403.2987	2440.7013	---	---
	Ant1	2437	37.403	2418.2987	2455.7013	---	---
	Ant2	2437	37.403	2418.2987	2455.7013	---	---
	Ant1	2452	37.243	2433.3786	2470.6214	---	---
	Ant2	2452	37.083	2433.4585	2470.5415	---	---
11BE20M IMO	Ant1	2412	18.701	2402.6094	2421.3107	---	---
	Ant2	2412	18.661	2402.6494	2421.3107	---	---
	Ant1	2437	18.741	2427.6494	2446.3906	---	---
	Ant2	2437	18.741	2427.6494	2446.3906	---	---
	Ant1	2462	18.781	2452.5694	2471.3506	---	---
	Ant2	2462	18.741	2452.5694	2471.3107	---	---
11BE40M IMO	Ant1	2422	37.562	2403.2188	2440.7812	---	---
	Ant2	2422	37.323	2403.3786	2440.7013	---	---
	Ant1	2437	37.562	2418.2188	2455.7812	---	---
	Ant2	2437	37.403	2418.2987	2455.7013	---	---
	Ant1	2452	37.243	2433.3786	2470.6214	---	---
	Ant2	2452	37.163	2433.3786	2470.5415	---	---

5.5. Test graphs

