



FCC RF Test Report

APPLICANT : OnePlus Technology (Shenzhen) Co., Ltd.
EQUIPMENT : Mobile Phone
BRAND NAME : ONEPLUS, 
MODEL NAME : CPH2749
FCC ID : 2ABZ2-OP24865
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : Aug. 04, 2025 ~ Aug. 28, 2025

We, Sporton International Inc. (Shenzhen), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Shenzhen), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia



Sporton International Inc. (Kunshan)

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People's Republic of China**



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR561202C	Rev. 01	Initial issue of report	Sep. 01, 2025

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	$\geq 0.5\text{MHz}$	Pass	-
3.1	-	99% Bandwidth	-	Report Only	-
3.2	15.247(b)	Conducted Output Power	$\leq 30\text{dBm}$	Pass	-
3.3	15.247(e)	Power Spectral Density	$\leq 8\text{dBm}/3\text{kHz}$	Pass	-
3.4	15.247(d)	Conducted Band Edges	$\leq 20\text{dBc}$	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 0.21 dB at 2483.58 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.52 dB at 0.18 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty"

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.



1 General Description

1.1 Applicant

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.2 Manufacturer

OnePlus Technology (Shenzhen) Co., Ltd.

18C02, 18C03, 18C04, and 18C05, Shum Yip Terra Building, Binhe Avenue North, Futian District, Shenzhen, Guangdong, P.R. China.

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Phone
Brand Name	ONEPLUS, 
Model Name	CPH2749
FCC ID	2ABZ2-OP24865
IMEI Code	Conducted: 867621080025252/867621080025245 Conduction: 867621080024719/867621080024701 Radiation: 867621080022598/867621080022580
HW Version	11
SW Version	OxygenOS 16.0
EUT Stage	Production Unit

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	<Ant 7> 802.11b : 23.05 dBm (0.2018 W) 802.11g : 23.33 dBm (0.2153 W) 802.11n HT20 : 23.18 dBm (0.2080 W) 802.11n HT40 : 24.44 dBm (0.2780 W) 802.11ax HE20 : 23.67 dBm (0.2328 W) 802.11ax HE40 : 23.74 dBm (0.2366 W) <Ant 11> 802.11b : 23.00 dBm (0.1995 W) 802.11g : 26.13 dBm (0.4102 W) 802.11n HT20 : 26.11 dBm (0.4083 W) 802.11n HT40 : 26.76 dBm (0.4742 W) 802.11ax HE20 : 26.50 dBm (0.4467 W) 802.11ax HE40 : 26.75 dBm (0.4732 W) <MIMO Ant 7+11> 802.11b : 24.11 dBm (0.2576 W) 802.11g : 23.76 dBm (0.2377 W) 802.11n HT20 : 20.88 dBm (0.1225 W) 802.11n HT40 : 23.15 dBm (0.2065 W) 802.11ax HE20 : 26.22 dBm (0.4188 W) 802.11ax HE40 : 23.36 dBm (0.2168 W) 802.11be EHT20 : 26.31 dBm (0.4276 W) 802.11be EHT40 : 23.56 dBm (0.2270 W)
99% Occupied Bandwidth	<Ant 7> 802.11b : 13.127MHz 802.11g : 17.138MHz 802.11n HT20 : 18.426MHz 802.11n HT40 : 37.124MHz 802.11ax HE20 : 19.170MHz 802.11ax HE40 : 38.468MHz <Ant 11> 802.11b : 13.131MHz 802.11g : 17.422MHz 802.11n HT20 : 18.722MHz 802.11n HT40 : 37.412MHz 802.11ax HE20 : 19.106MHz 802.11ax HE40 : 38.124MHz <MIMO Ant 7+11> 802.11b : 13.179MHz 802.11g : 17.262MHz 802.11n HT20 : 18.458MHz 802.11n HT40 : 37.388MHz 802.11be EHT20 : 19.438MHz 802.11be EHT40 : 38.244MHz
Antenna Type / Gain	<Ant 7> : IFA Antenna Type with gain -0.7 dBi <Ant 11> : IFA Antenna Type with gain -3.1 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM)

	802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM) 802.11be: OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM / 4096QAM)
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Note:

1. The device supports WLAN SISO mode for 802.11b/g/n/ac/ax & MIMO mode for 802.11b/g/n/ac/ax/be, both of them were full tested.
2. For 802.11n/11ac mode, since the power settings which provided by the customer are the same, after evaluation, only 11n HT20/HT40 was full tested.
3. For 802.11ax/11be of MIMO Antenna mode, the conducted test items have assessed only 802.11be EHT20/EHT40 by referring to the higher output power.
4. 802.11ax/be support OFDMA full RU tone and partial RU tone, both full RU and partial RU-left (for low CH) and partial RU-right (for high CH) test output power, the full RU power/PSD > partial RU, therefore the full RU perform full, and partial RU verify bandedge/spurious.
5. 802.11be support OFDMA for small size RU, 52Tone + 26 Tone or 106Tone + 26Tone, test combination as below,
 - a. For Low channel, 52Tone_Index38 + 26Tone_Index1 and 106Tone_Index53 + 26Tone_Index4
 - b. For High channel, 52Tone_Index39 + 26Tone_Index7 and 106Tone_Index54 + 26Tone_Index4
6. Only the worse cases of RSE for partial RU and small size RU are shown in this report.

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghuang Community, Fuyong Street, Baoan District, Shenzhen City, Guangdong Province 518103 People's Republic of China TEL: +86-755-86066985		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	TH01-SZ CO02-SZ ; 03CH01-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH01-SZ	AUDIX	E3	6.2009-8-24
2.	CO02-SZ	AUDIX	E3	6.120613b

1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart C §15.247
- ♦ FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ♦ FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ♦ ANSI C63.10-2020

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

- a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.
- b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437	-	-

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

SISO/MIMO Antenna

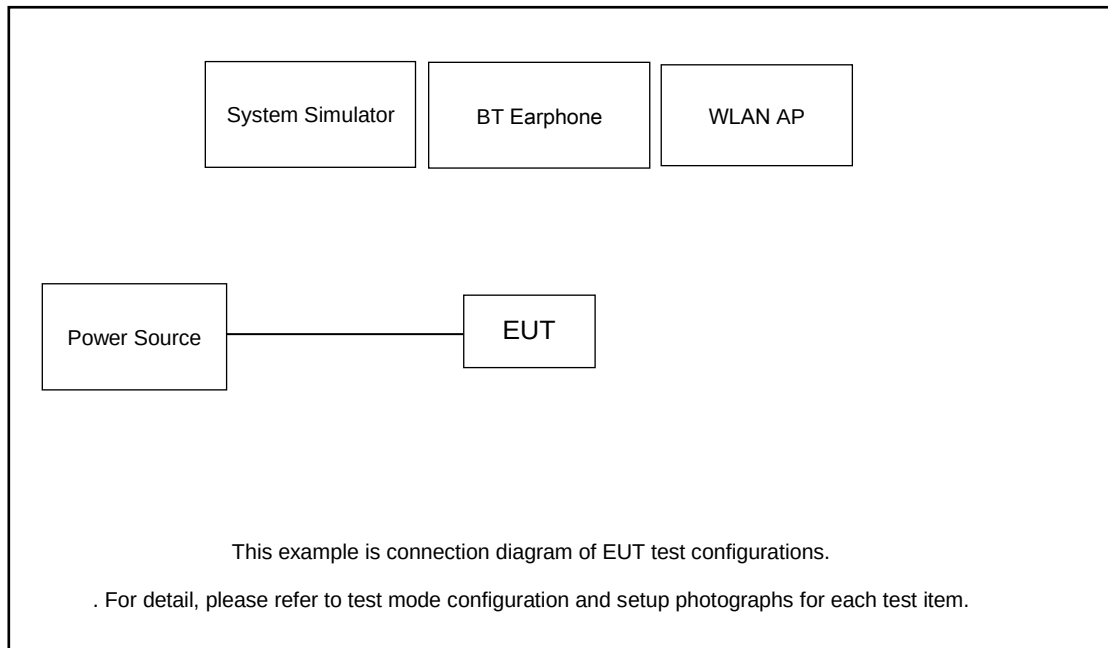
Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0
802.11be EHT20	MCS0
802.11be EHT40	MCS0

Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + Battery 1+ USB Cable (Charging from Adapter 1)
Remark: For Radiated Test Cases, The tests were performance with Adapter 1 and USB Cable.	

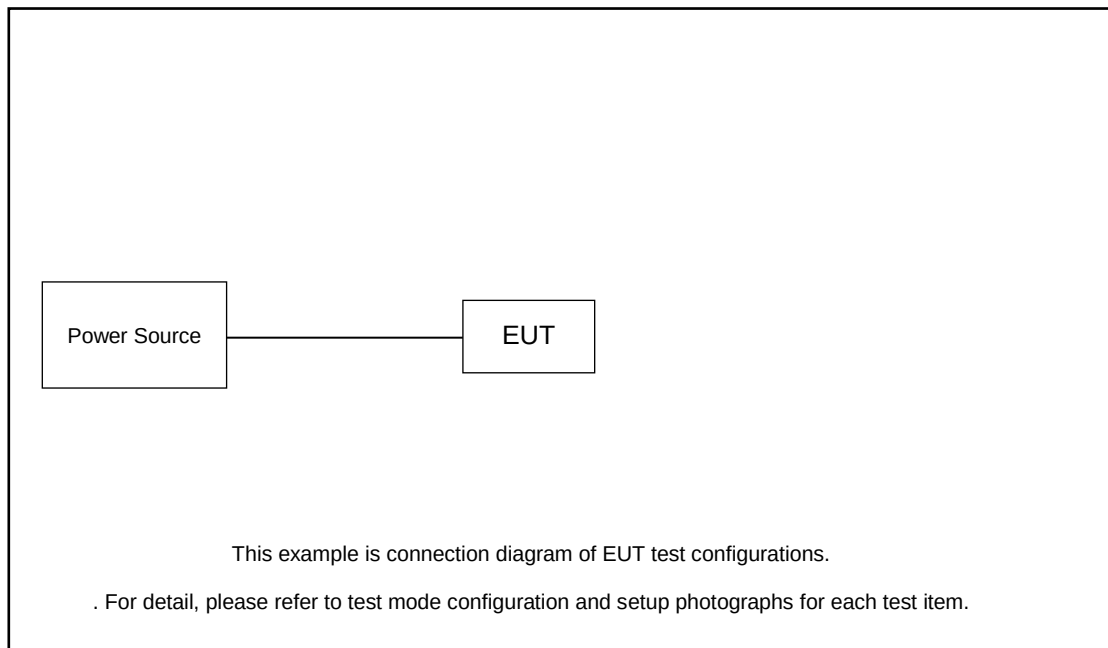
RSE Co-location mode
WWAN Part 96 B48 Link + 802.11g CH11 2462MHz Tx WWAN Part 96 B48 Link + 802.11g CH11 2462MHz Tx + Bluetooth-LE_GSKF 2Mbps CH39 2478MHz Tx

2.3 Connection Diagram of Test System

AC Conducted Emission:



Radiated Emission:



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded,1.8m
2.	Notebook	DELL	Latiude 3400	N/A	N/A	N/A
3.	WLAN AP	Dlink	DIR-820L	KA2IR820LA1	N/A	Unshielded,1.8m
4.	Bluetooth Earphone	Samsung	EO-MG900	PYAHS-107W	N/A	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 2.12 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 2.12 + 10 = 12.12 \text{ (dB)}\end{aligned}$$

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

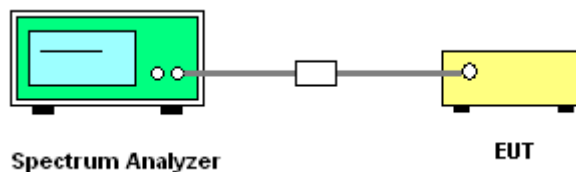
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.8.1 for 6dB BW and 6.9.3 for 99% occupied bandwidth measurements
2. 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.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth (VBW) $\geq 3 \times \text{RBW}$. Detector = Peak. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

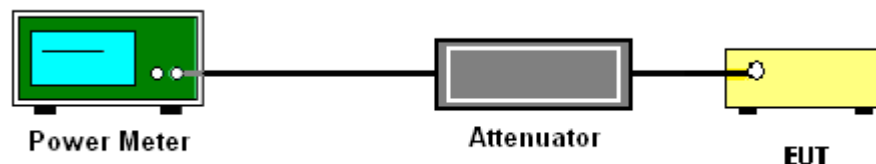
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2020 clause 11.9.1.2 PKPM1 Peak power meter or ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.
5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup





3.2.5 Test Result of Peak Output Power

2.4GHz Band Single Antenna																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	
11b	1Mbps	1	1	2412	23.00	23.05	-	30.00	30.00	-3.10	-0.70	19.90	22.35	36.00	36.00	Pass
11b	1Mbps	1	2	2417	-	20.64		30.00	30.00	-3.10	-0.70	-	19.94	-	36.00	Pass
11b	1Mbps	1	6	2437	22.74	18.95		30.00	30.00	-3.10	-0.70	19.64	18.25	36.00	36.00	Pass
11b	1Mbps	1	11	2462	22.96	20.53		30.00	30.00	-3.10	-0.70	19.86	19.83	36.00	36.00	Pass
11g	6Mbps	1	1	2412	26.02	23.33		30.00	30.00	-3.10	-0.70	22.92	22.63	36.00	36.00	Pass
11g	6Mbps	1	6	2437	26.13	22.73		30.00	30.00	-3.10	-0.70	23.03	22.03	36.00	36.00	Pass
11g	6Mbps	1	11	2462	25.61	23.24		30.00	30.00	-3.10	-0.70	22.51	22.54	36.00	36.00	Pass
HT20	MCS0	1	1	2412	26.11	22.97		30.00	30.00	-3.10	-0.70	23.01	22.27	36.00	36.00	Pass
HT20	MCS0	1	6	2437	26.08	23.18		30.00	30.00	-3.10	-0.70	22.98	22.48	36.00	36.00	Pass
HT20	MCS0	1	11	2462	24.71	22.95		30.00	30.00	-3.10	-0.70	21.61	22.25	36.00	36.00	Pass
HT40	MCS0	1	3	2422	26.69	22.56		30.00	30.00	-3.10	-0.70	23.59	21.86	36.00	36.00	Pass
HT40	MCS0	1	6	2437	26.76	24.44		30.00	30.00	-3.10	-0.70	23.66	23.74	36.00	36.00	Pass
HT40	MCS0	1	9	2452	25.15	22.50		30.00	30.00	-3.10	-0.70	22.05	21.80	36.00	36.00	Pass

2.4GHz Band Single Antenna																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	
HE20	MCS0	1	1	2412	Full	26.50	21.83	-	30.00	30.00	-3.10	-0.70	23.40	21.13	36.00	36.00	Pass
HE20	MCS0	1	6	2437	Full	26.00	23.67		30.00	30.00	-3.10	-0.70	22.90	22.97	36.00	36.00	Pass
HE20	MCS0	1	11	2462	Full	24.66	22.71		30.00	30.00	-3.10	-0.70	21.56	22.01	36.00	36.00	Pass
HE40	MCS0	1	3	2422	Full	26.75	22.63		30.00	30.00	-3.10	-0.70	23.65	21.93	36.00	36.00	Pass
HE40	MCS0	1	6	2437	Full	25.62	23.74		30.00	30.00	-3.10	-0.70	22.52	23.04	36.00	36.00	Pass
HE40	MCS0	1	9	2452	Full	25.07	22.58		30.00	30.00	-3.10	-0.70	21.97	21.88	36.00	36.00	Pass



2.4GHz Band MIMO																
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
					Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	
11b	1Mbps	2	1	2412	21.07	21.12	24.11	30.00		-0.70		23.41		36.00		Pass
11b	1Mbps	2	6	2437	20.82	21.16	24.00	30.00		-0.70		23.30		36.00		Pass
11b	1Mbps	2	11	2462	20.86	21.03	23.96	30.00		-0.70		23.26		36.00		Pass
11g	6Mbps	2	1	2412	20.60	20.90	23.76	30.00		-0.70		23.06		36.00		Pass
11g	6Mbps	2	6	2437	20.56	20.83	23.71	30.00		-0.70		23.01		36.00		Pass
11g	6Mbps	2	11	2462	20.63	20.73	23.69	30.00		-0.70		22.99		36.00		Pass
HT20	MCS0	2	1	2412	17.75	17.98	20.88	30.00		-0.70		20.18		36.00		Pass
HT20	MCS0	2	6	2437	17.41	17.86	20.65	30.00		-0.70		19.95		36.00		Pass
HT20	MCS0	2	11	2462	17.55	17.93	20.75	30.00		-0.70		20.05		36.00		Pass
HT40	MCS0	2	3	2422	19.83	20.35	23.11	30.00		-0.70		22.41		36.00		Pass
HT40	MCS0	2	6	2437	19.69	20.35	23.04	30.00		-0.70		22.34		36.00		Pass
HT40	MCS0	2	9	2452	19.79	20.47	23.15	30.00		-0.70		22.45		36.00		Pass

2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	
HE20	MCS0	2	1	2412	Full	18.26	18.36	21.32	30.00		-0.70		20.62		36.00		Pass
HE20	MCS0	2	1	2412	26/0	17.44	17.44	20.45	30.00		-0.70		19.75		36.00		Pass
HE20	MCS0	2	1	2412	52/37	20.00	20.08	23.05	30.00		-0.70		22.35		36.00		Pass
HE20	MCS0	2	1	2412	106/53	23.16	23.25	26.22	30.00		-0.70		25.52		36.00		Pass
HE20	MCS0	2	6	2437	Full	18.01	18.46	21.25	30.00		-0.70		20.55		36.00		Pass
HE20	MCS0	2	11	2462	Full	18.08	18.44	21.27	30.00		-0.70		20.57		36.00		Pass
HE20	MCS0	2	11	2462	26/8	17.51	17.62	20.58	30.00		-0.70		19.88		36.00		Pass
HE20	MCS0	2	11	2462	52/40	20.07	20.19	23.14	30.00		-0.70		22.44		36.00		Pass
HE20	MCS0	2	11	2462	106/54	22.98	23.02	26.01	30.00		-0.70		25.31		36.00		Pass
HE40	MCS0	2	3	2422	Full	19.86	20.24	23.06	30.00		-0.70		22.36		36.00		Pass
HE40	MCS0	2	6	2437	Full	19.84	20.29	23.08	30.00		-0.70		22.38		36.00		Pass
HE40	MCS0	2	9	2452	Full	19.88	20.77	23.36	30.00		-0.70		22.66		36.00		Pass



2.4GHz Band MIMO																	
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail
						Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	
EHT20	MCS0	2	1	2412	Full	18.33	18.42	21.39	30.00		-0.70		20.69		36.00		Pass
EHT20	MCS0	2	1	2412	26/0	17.52	17.60	20.57	30.00		-0.70		19.87		36.00		Pass
EHT20	MCS0	2	1	2412	52/37	20.08	20.16	23.13	30.00		-0.70		22.43		36.00		Pass
EHT20	MCS0	2	1	2412	106/53	23.24	23.35	26.31	30.00		-0.70		25.61		36.00		Pass
EHT20	MCS0	2	1	2412	52+26	20.05	20.17	23.12	30.00		-0.70		22.42		36.00		Pass
EHT20	MCS0	2	1	2412	106+26	23.07	23.21	26.15	30.00		-0.70		25.45		36.00		Pass
EHT20	MCS0	2	6	2437	Full	18.09	18.53	21.33	30.00		-0.70		20.63		36.00		Pass
EHT20	MCS0	2	11	2462	Full	18.16	18.51	21.35	30.00		-0.70		20.65		36.00		Pass
EHT20	MCS0	2	11	2462	26/8	17.60	17.77	20.70	30.00		-0.70		20.00		36.00		Pass
EHT20	MCS0	2	11	2462	52/40	20.17	20.32	23.26	30.00		-0.70		22.56		36.00		Pass
EHT20	MCS0	2	11	2462	106/54	23.04	23.18	26.12	30.00		-0.70		25.42		36.00		Pass
EHT20	MCS0	2	11	2462	52+26	20.12	20.31	23.23	30.00		-0.70		22.53		36.00		Pass
EHT20	MCS0	2	11	2462	106+26	23.18	23.41	26.31	30.00		-0.70		25.61		36.00		Pass
EHT40	MCS0	2	3	2422	Full	19.74	19.83	22.80	30.00		-0.70		22.10		36.00		Pass
EHT40	MCS0	2	6	2437	Full	20.04	20.49	23.28	30.00		-0.70		22.58		36.00		Pass
EHT40	MCS0	2	9	2452	Full	20.08	20.97	23.56	30.00		-0.70		22.86		36.00		Pass



3.2.6 Test Result of Average Output Power (Reporting Only)

2.4GHz Band Single Antenna																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Setting	
					Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7		Ant11	Ant7
11b	1Mbps	1	1	2412	21.04	21.20	-	30.00	30.00	-3.10	-0.70	17.94	20.50	36.00	36.00	Pass	21.00	21.00
11b	1Mbps	1	2	2417	-	17.63		-	30.00	-3.10	-0.70	-	16.93	-	36.00	Pass	-	17.50
11b	1Mbps	1	6	2437	20.81	16.20		30.00	30.00	-3.10	-0.70	17.71	15.50	36.00	36.00	Pass	21.00	16.00
11b	1Mbps	1	11	2462	20.90	17.60		30.00	30.00	-3.10	-0.70	17.80	16.90	36.00	36.00	Pass	21.00	17.50
11g	6Mbps	1	1	2412	20.51	17.41		30.00	30.00	-3.10	-0.70	17.41	16.71	36.00	36.00	Pass	20.50	17.00
11g	6Mbps	1	6	2437	20.87	17.00		30.00	30.00	-3.10	-0.70	17.77	16.30	36.00	36.00	Pass	21.00	16.50
11g	6Mbps	1	11	2462	19.44	17.52		30.00	30.00	-3.10	-0.70	16.34	16.82	36.00	36.00	Pass	19.50	17.00
HT20	MCS0	1	1	2412	20.46	16.88		30.00	30.00	-3.10	-0.70	17.36	16.18	36.00	36.00	Pass	20.50	16.50
HT20	MCS0	1	6	2437	20.72	17.50		30.00	30.00	-3.10	-0.70	17.62	16.80	36.00	36.00	Pass	21.00	17.00
HT20	MCS0	1	11	2462	18.25	17.11		30.00	30.00	-3.10	-0.70	15.15	16.41	36.00	36.00	Pass	18.50	16.50
HT40	MCS0	1	3	2422	19.49	14.85		30.00	30.00	-3.10	-0.70	16.39	14.15	36.00	36.00	Pass	19.00	15.00
HT40	MCS0	1	6	2437	20.11	16.63		30.00	30.00	-3.10	-0.70	17.01	15.93	36.00	36.00	Pass	19.50	17.00
HT40	MCS0	1	9	2452	18.15	14.66		30.00	30.00	-3.10	-0.70	15.05	13.96	36.00	36.00	Pass	17.50	15.00

2.4GHz Band Single Antenna																			
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Setting	
						Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7		Ant11	Ant7
HE20	MCS0	1	1	2412	Full	20.54	15.42	-	30.00	30.00	-3.10	-0.70	17.44	14.72	36.00	36.00	Pass	20.50	15.00
HE20	MCS0	1	6	2437	Full	20.27	17.55		30.00	30.00	-3.10	-0.70	17.17	16.85	36.00	36.00	Pass	20.50	17.00
HE20	MCS0	1	11	2462	Full	17.91	16.68		30.00	30.00	-3.10	-0.70	14.81	15.98	36.00	36.00	Pass	18.00	16.00
HE40	MCS0	1	3	2422	Full	19.35	16.01		30.00	30.00	-3.10	-0.70	16.25	15.31	36.00	36.00	Pass	19.00	15.00
HE40	MCS0	1	6	2437	Full	18.66	17.55		30.00	30.00	-3.10	-0.70	15.56	16.85	36.00	36.00	Pass	18.50	16.50
HE40	MCS0	1	9	2452	Full	17.70	16.17		30.00	30.00	-3.10	-0.70	14.60	15.47	36.00	36.00	Pass	17.50	15.00



2.4GHz Band MIMO																		
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Setting	
					Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7		Ant11	Ant7
11b	1Mbps	2	1	2412	19.06	19.29	22.19	30.00		-0.70		21.49		36.00		Pass	19.00	
11b	1Mbps	2	6	2437	18.81	19.34	22.09	30.00		-0.70		21.39		36.00		Pass	19.00	
11b	1Mbps	2	11	2462	18.93	19.31	22.13	30.00		-0.70		21.43		36.00		Pass	19.00	
11g	6Mbps	2	1	2412	15.87	16.29	19.10	30.00		-0.70		18.40		36.00		Pass	15.50	
11g	6Mbps	2	6	2437	15.67	16.25	18.98	30.00		-0.70		18.28		36.00		Pass	15.50	
11g	6Mbps	2	11	2462	15.77	16.35	19.08	30.00		-0.70		18.38		36.00		Pass	15.50	
HT20	MCS0	2	1	2412	12.93	13.36	16.16	30.00		-0.70		15.46		36.00		Pass	12.50	
HT20	MCS0	2	6	2437	12.64	13.46	16.08	30.00		-0.70		15.38		36.00		Pass	12.50	
HT20	MCS0	2	11	2462	12.75	13.55	16.18	30.00		-0.70		15.48		36.00		Pass	12.50	
HT40	MCS0	2	3	2422	14.11	14.75	17.45	30.00		-0.70		16.75		36.00		Pass	13.50	
HT40	MCS0	2	6	2437	13.90	14.84	17.41	30.00		-0.70		16.71		36.00		Pass	13.50	
HT40	MCS0	2	9	2452	13.89	14.93	17.45	30.00		-0.70		16.75		36.00		Pass	13.50	

2.4GHz Band MIMO																			
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Setting	
						Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7		Ant11	Ant7
HE20	MCS0	2	1	2412	Full	12.96	13.41	16.20	30.00		-0.70		15.50		36.00		Pass	12.50	
HE20	MCS0	2	1	2412	26/0	8.30	8.11	11.22	30.00		-0.70		10.52		36.00		Pass	8.00	
HE20	MCS0	2	1	2412	52/37	11.02	11.02	14.03	30.00		-0.70		13.33		36.00		Pass	11.00	
HE20	MCS0	2	1	2412	106/53	14.01	14.03	17.03	30.00		-0.70		16.33		36.00		Pass	14.00	
HE20	MCS0	2	6	2437	Full	12.69	13.50	16.12	30.00		-0.70		15.42		36.00		Pass	12.50	
HE20	MCS0	2	11	2462	Full	12.78	13.58	16.21	30.00		-0.70		15.51		36.00		Pass	12.50	
HE20	MCS0	2	11	2462	26/8	8.35	8.34	11.36	30.00		-0.70		10.66		36.00		Pass	8.00	
HE20	MCS0	2	11	2462	52/40	11.06	11.05	14.07	30.00		-0.70		13.37		36.00		Pass	11.00	
HE20	MCS0	2	11	2462	106/54	14.03	14.01	17.03	30.00		-0.70		16.33		36.00		Pass	14.00	
HE40	MCS0	2	3	2422	Full	14.13	14.77	17.47	30.00		-0.70		16.77		36.00		Pass	13.50	
HE40	MCS0	2	6	2437	Full	13.94	14.87	17.44	30.00		-0.70		16.74		36.00		Pass	13.50	
HE40	MCS0	2	9	2452	Full	13.92	14.95	17.48	30.00		-0.70		16.78		36.00		Pass	13.50	



2.4GHz Band MIMO																			
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Average Conducted Power (dBm)			Conducted Power Limit (dBm)		DG (dBi)		EIRP Power (dBm)		EIRP Power Limit (dBm)		Pass /Fail	Setting	
						Ant11	Ant7	SUM	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7	Ant11	Ant7		Ant11	Ant7
EHT20	MCS0	2	1	2412	Full	13.01	13.45	16.25	30.00		-0.70		15.55		36.00		Pass	12.50	
EHT20	MCS0	2	1	2412	26/0	8.38	8.15	11.28	30.00		-0.70		10.58		36.00		Pass	8.00	
EHT20	MCS0	2	1	2412	52/37	11.07	11.05	14.07	30.00		-0.70		13.37		36.00		Pass	11.00	
EHT20	MCS0	2	1	2412	106/53	14.08	14.09	17.10	30.00		-0.70		16.40		36.00		Pass	14.00	
EHT20	MCS0	2	1	2412	52+26	11.10	11.08	14.10	30.00		-0.70		13.40		36.00		Pass	11.00	
EHT20	MCS0	2	1	2412	106+26	14.05	14.08	17.08	30.00		-0.70		16.38		36.00		Pass	14.00	
EHT20	MCS0	2	6	2437	Full	12.72	13.54	16.16	30.00		-0.70		15.46		36.00		Pass	12.50	
EHT20	MCS0	2	11	2462	Full	12.82	13.65	16.27	30.00		-0.70		15.57		36.00		Pass	12.50	
EHT20	MCS0	2	11	2462	26/8	8.47	8.44	11.47	30.00		-0.70		10.77		36.00		Pass	8.00	
EHT20	MCS0	2	11	2462	52/40	11.11	11.07	14.10	30.00		-0.70		13.40		36.00		Pass	11.00	
EHT20	MCS0	2	11	2462	106/54	14.06	14.06	17.07	30.00		-0.70		16.37		36.00		Pass	14.00	
EHT20	MCS0	2	11	2462	52+26	11.04	11.10	14.08	30.00		-0.70		13.38		36.00		Pass	11.00	
EHT20	MCS0	2	11	2462	106+26	14.08	14.22	17.16	30.00		-0.70		16.46		36.00		Pass	14.00	
EHT40	MCS0	2	3	2422	Full	12.11	12.73	15.44	30.00		-0.70		14.74		36.00		Pass	11.50	
EHT40	MCS0	2	6	2437	Full	13.98	14.92	17.49	30.00		-0.70		16.79		36.00		Pass	13.50	
EHT40	MCS0	2	9	2452	Full	13.96	14.97	17.50	30.00		-0.70		16.80		36.00		Pass	13.50	

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

3.3.2 Measuring Instruments

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

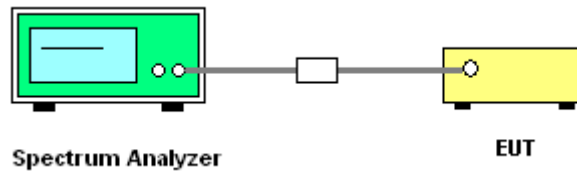
3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2020 clause 11.10.2 Method PKPSD.
2. 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.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.
7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01:

Method (b): Measure and sum spectral maxima across the outputs.

The measurement on each individual output were performed with the same span and number on each individual output. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

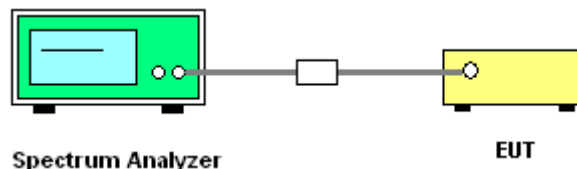
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.11.3
2. 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.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup



3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Please refer to Appendix A.

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/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

3.5.2 Measuring Instruments

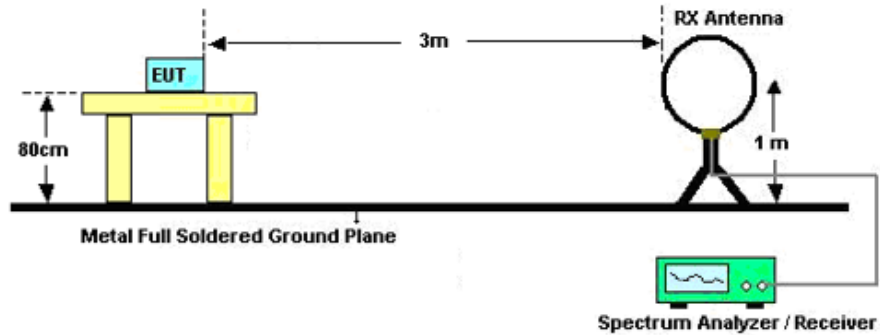
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

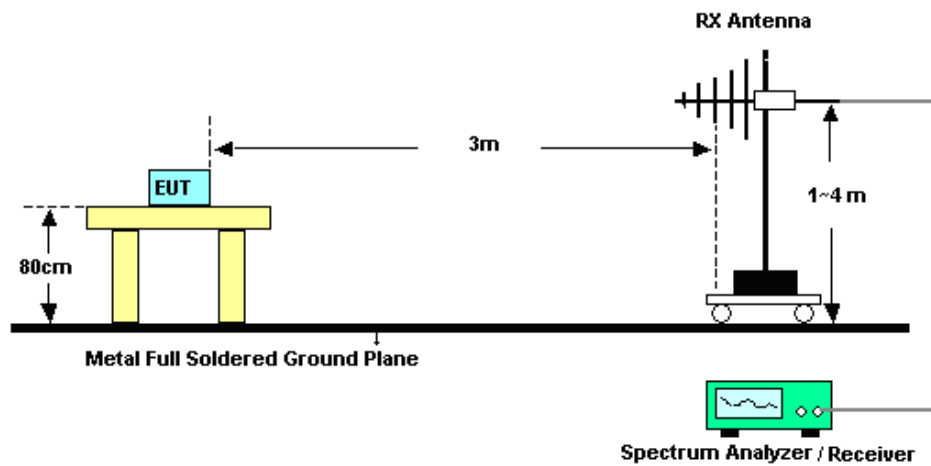
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Set RBW=100 kHz for $f < 1$ GHz; VBW $\geq$ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
 - (3) Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement.
For average measurement:
 - VBW = 10 Hz, when duty cycle is no less than 98 percent.
 - VBW $\geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

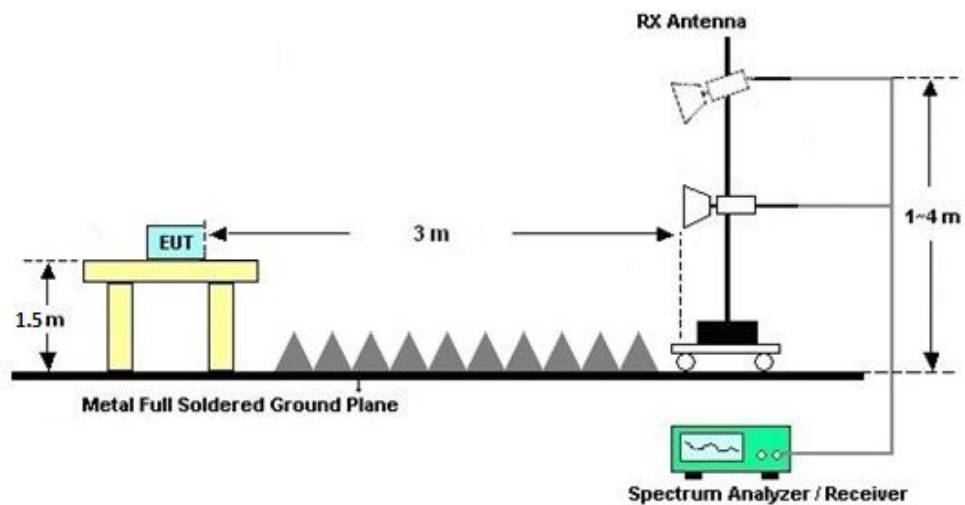
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



**3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dB μ V)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

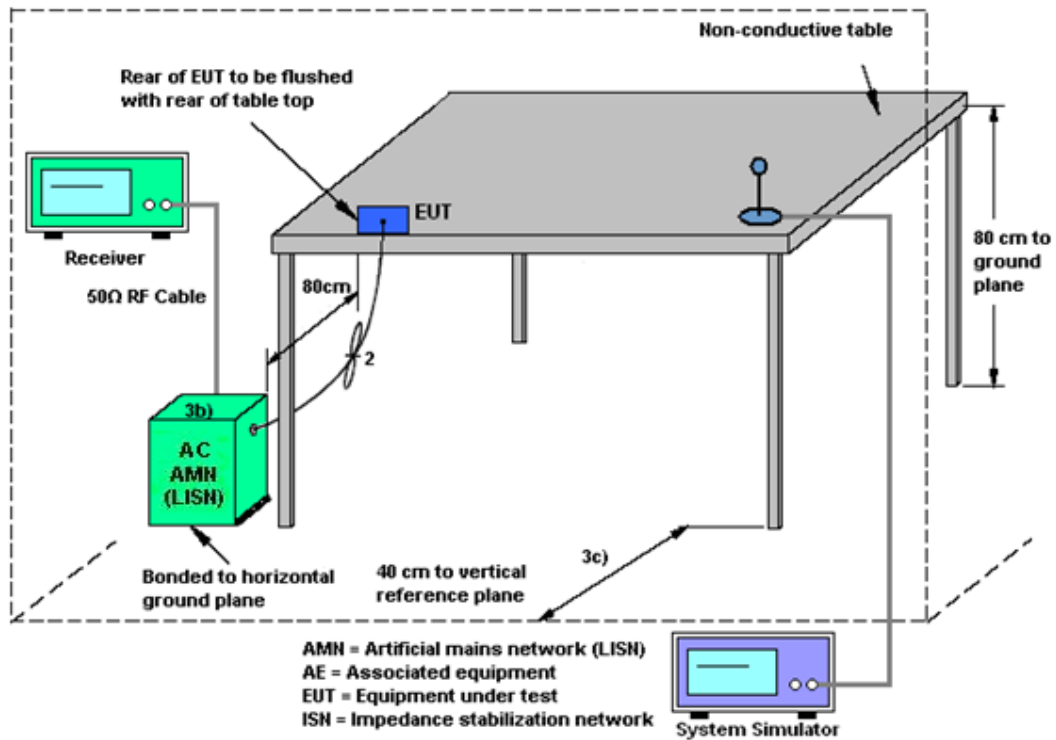
3.6.2 Measuring Instruments

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

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1)$ dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with G_{ANT} set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F)2)f)i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<CDD Modes>						
			DG for Power (dBi)	DG for PSD (dBi)	Power Limit Reduction (dB)	PSD Limit Reduction (dB)
	Ant. 7 (dBi)	Ant. 11 (dBi)				
2.4 GHz	-0.70	-3.10	-0.70	1.19	0.00	0.00

Power Limit Reduction = $DG(Power) - 6dBi$, (min = 0)

PSD Limit Reduction = $DG(PSD) - 6dBi$, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	Jul. 26, 2025~ Aug. 28, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	Jul. 26, 2025~ Aug. 28, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14, 2024	Jul. 26, 2025~ Aug. 28, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
EMI Receiver	R&S	ESR7	102297	9kHz~7GHz;	Jul. 03, 2025	Aug. 05, 2025	Jul. 02, 2026	Conduction (CO02-SZ)
AC LISN	R&S	ENV216	101499	9kHz~30MHz	Jul. 03, 2025	Aug. 05, 2025	Jul. 02, 2026	Conduction (CO02-SZ)
AC Power Source	CHROMA	61601	616010002470	100Vac~250Vac	Dec.25, 2024	Aug. 05, 2025	Dec. 24, 2025	Conduction (CO02-SZ)
EMI Test Receiver&SA	Agilent	N9038A	MY52260185	20Hz~26.5GHz	Dec. 25, 2024	Aug. 04, 2025~ Aug. 12, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY55150213	10Hz~44GHz	Jul. 03, 2025	Aug. 04, 2025~ Aug. 12, 2025	Jul. 02, 2026	Radiation (03CH01-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	Aug. 04, 2025~ Aug. 12, 2025	Dec. 27, 2025	Radiation (03CH01-SZ)
Bilog Antenna	TeseQ	CBL6112D	35407	30MHz~2GHz	Oct. 24, 2023	Aug. 04, 2025~ Aug. 12, 2025	Oct. 23, 2025	Radiation (03CH01-SZ)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00119436	1GHz~18GHz	Jul. 04, 2025	Aug. 04, 2025~ Aug. 12, 2025	Jul. 03, 2026	Radiation (03CH01-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18GHz~40GHz	Apr. 03, 2025	Aug. 04, 2025~ Aug. 12, 2025	Apr. 02, 2027	Radiation (03CH01-SZ)
LF Amplifier	EM Electronics	EM330	060788	20MHz~3GHz	Dec. 25, 2024	Aug. 04, 2025~ Aug. 12, 2025	Dec. 24, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	Aug. 04, 2025~ Aug. 12, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	KEYSIGHT	83017A	MY53270105	0.5GHz~26.5GHz	Oct. 14, 2024	Aug. 04, 2025~ Aug. 12, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2025	Aug. 04, 2025~ Aug. 12, 2025	Jul. 02, 2026	Radiation (03CH01-SZ)
AC Power Source	Chroma	61601	616010001985	N/A	Oct. 14, 2024	Aug. 04, 2025~ Aug. 12, 2025	Oct. 13, 2025	Radiation (03CH01-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Aug. 04, 2025~ Aug. 12, 2025	NCR	Radiation (03CH01-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Aug. 04, 2025~ Aug. 12, 2025	NCR	Radiation (03CH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Spurious Emission & Bandedge	± 1.34 dB
Occupied Channel Bandwidth	± 0.012 MHz
Conducted Power	± 1.34 dB
Conducted Power Spectral Density	± 1.32 dB
Frequency	± 1.3 Hz

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.5 dB
---	--------

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.8 dB
---	--------

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.2 dB
---	--------

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.0 dB
---	--------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.3 dB
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----- THE END -----



Appendix A. Conducted Test Results



Ambient Condition: 25 °C, 45 %RH

Test Date: 2025.07.26-2025.08.28

Test Engineer: Chen ZhiQiang

<SISO Mode>

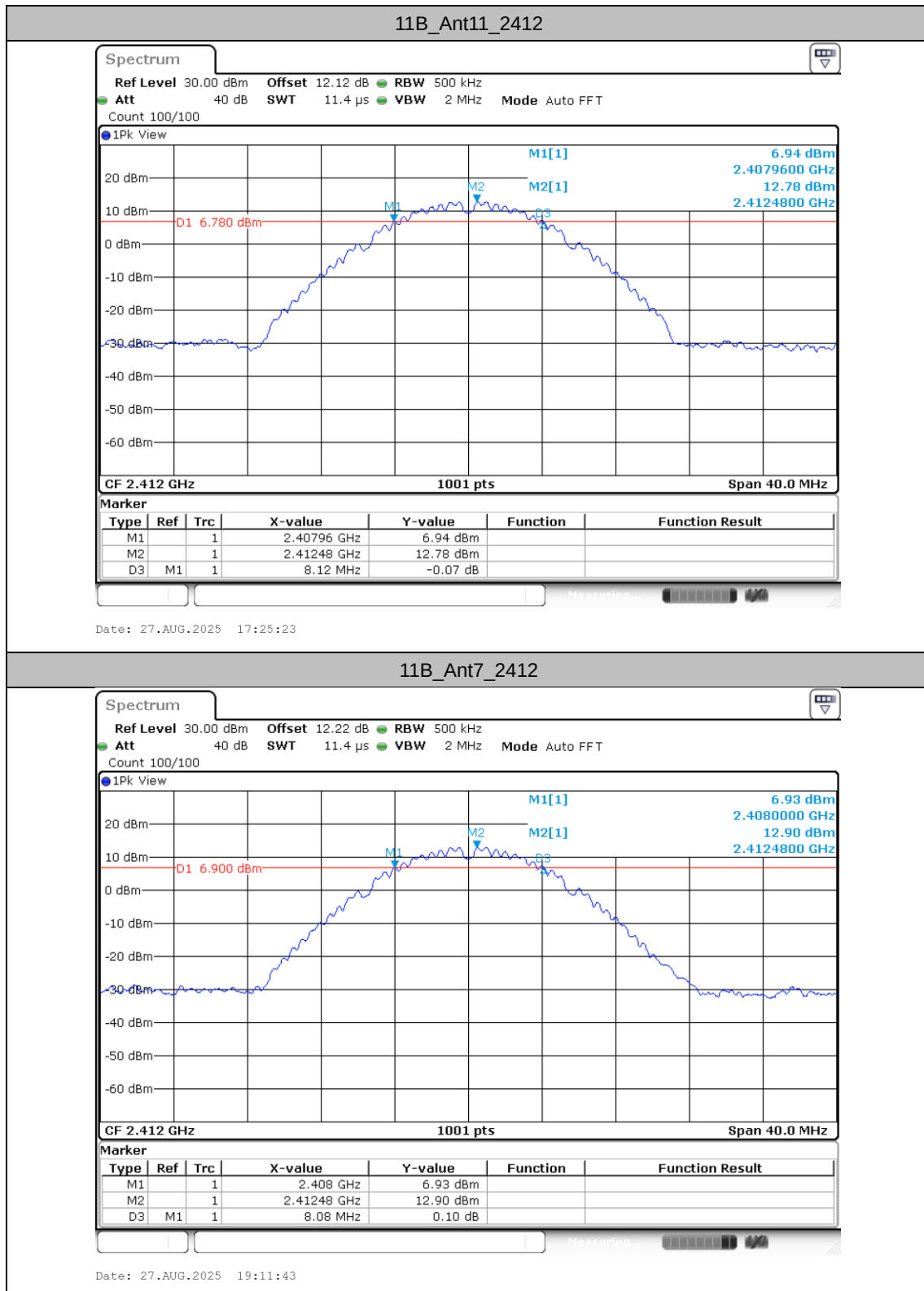
DTS Bandwidth

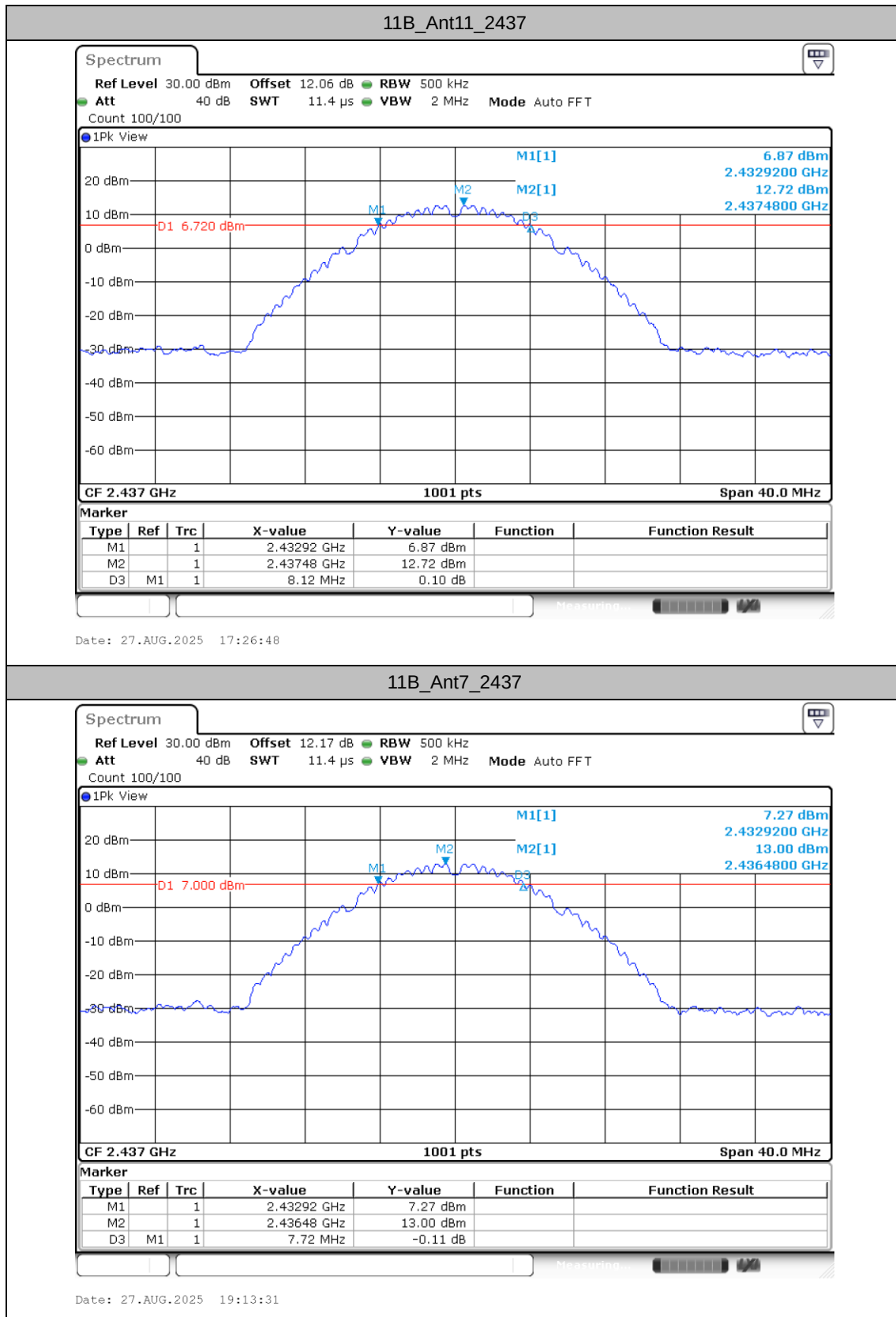
Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B	Ant11	2412	8.12	2407.96	2416.08	0.5	PASS
	Ant7	2412	8.08	2408.00	2416.08	0.5	PASS
	Ant11	2437	8.12	2432.92	2441.04	0.5	PASS
	Ant7	2437	7.72	2432.92	2440.64	0.5	PASS
	Ant11	2462	8.16	2457.88	2466.04	0.5	PASS
	Ant7	2462	8.12	2457.88	2466.00	0.5	PASS
11G	Ant11	2412	16.44	2403.84	2420.28	0.5	PASS
	Ant7	2412	16.36	2403.92	2420.28	0.5	PASS
	Ant11	2437	16.48	2428.80	2445.28	0.5	PASS
	Ant7	2437	16.40	2428.80	2445.20	0.5	PASS
	Ant11	2462	16.52	2453.76	2470.28	0.5	PASS
	Ant7	2462	16.44	2453.76	2470.20	0.5	PASS
11N20SISO	Ant11	2412	17.72	2403.12	2420.84	0.5	PASS
	Ant7	2412	17.60	2403.20	2420.80	0.5	PASS
	Ant11	2437	17.84	2428.08	2445.92	0.5	PASS
	Ant7	2437	17.84	2428.12	2445.96	0.5	PASS
	Ant11	2462	17.72	2453.08	2470.80	0.5	PASS
	Ant7	2462	17.64	2453.12	2470.76	0.5	PASS
11N40SISO	Ant11	2422	36.32	2403.92	2440.24	0.5	PASS
	Ant7	2422	36.32	2403.84	2440.16	0.5	PASS
	Ant11	2437	36.64	2418.60	2455.24	0.5	PASS
	Ant7	2437	36.48	2418.76	2455.24	0.5	PASS
	Ant11	2452	36.40	2433.76	2470.16	0.5	PASS
	Ant7	2452	36.40	2433.76	2470.16	0.5	PASS
11AX20SISO	Ant11	2412	18.92	2402.56	2421.48	0.5	PASS
	Ant7	2412	18.80	2402.56	2421.36	0.5	PASS
	Ant11	2437	18.92	2427.48	2446.40	0.5	PASS
	Ant7	2437	18.96	2427.52	2446.48	0.5	PASS
	Ant11	2462	19.08	2452.44	2471.52	0.5	PASS
	Ant7	2462	18.56	2452.52	2471.08	0.5	PASS
11AX40SISO	Ant11	2422	38.16	2402.96	2441.12	0.5	PASS
	Ant7	2422	37.76	2403.20	2440.96	0.5	PASS
	Ant11	2437	38.00	2417.96	2455.96	0.5	PASS
	Ant7	2437	38.16	2417.88	2456.04	0.5	PASS
	Ant11	2452	38.08	2432.88	2470.96	0.5	PASS
	Ant7	2452	37.84	2433.04	2470.88	0.5	PASS

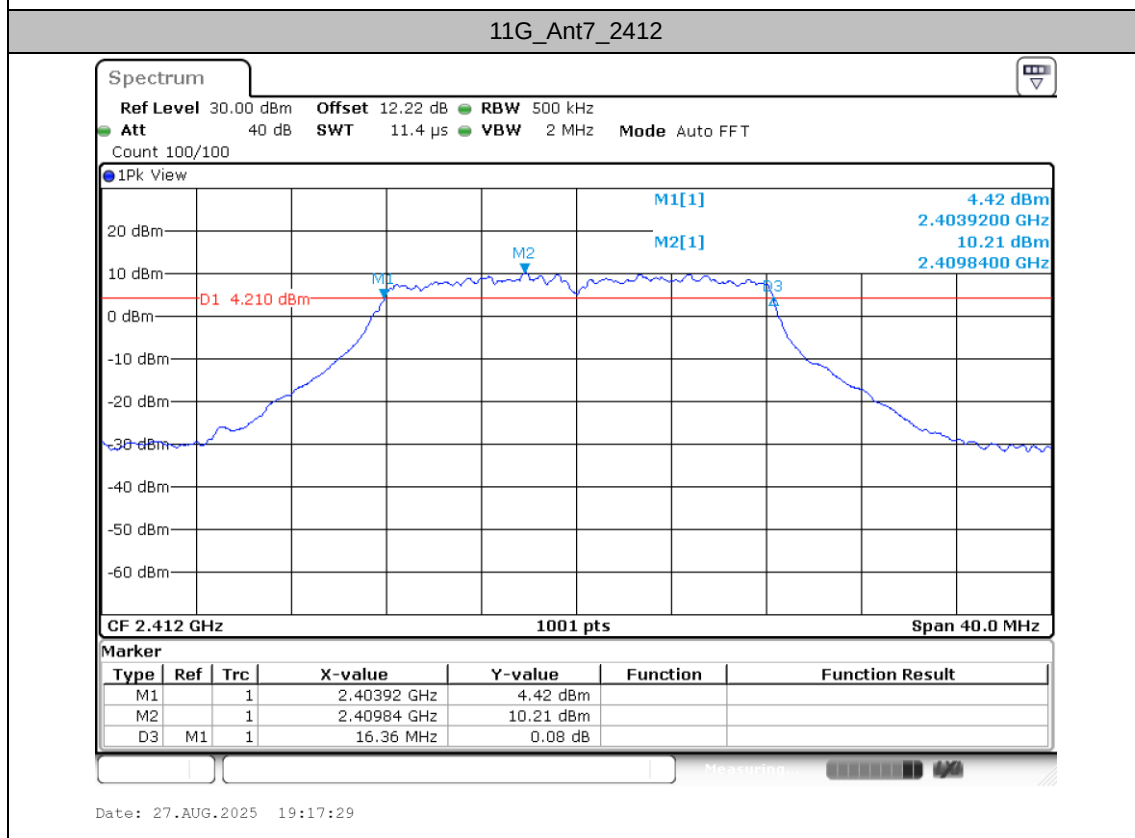
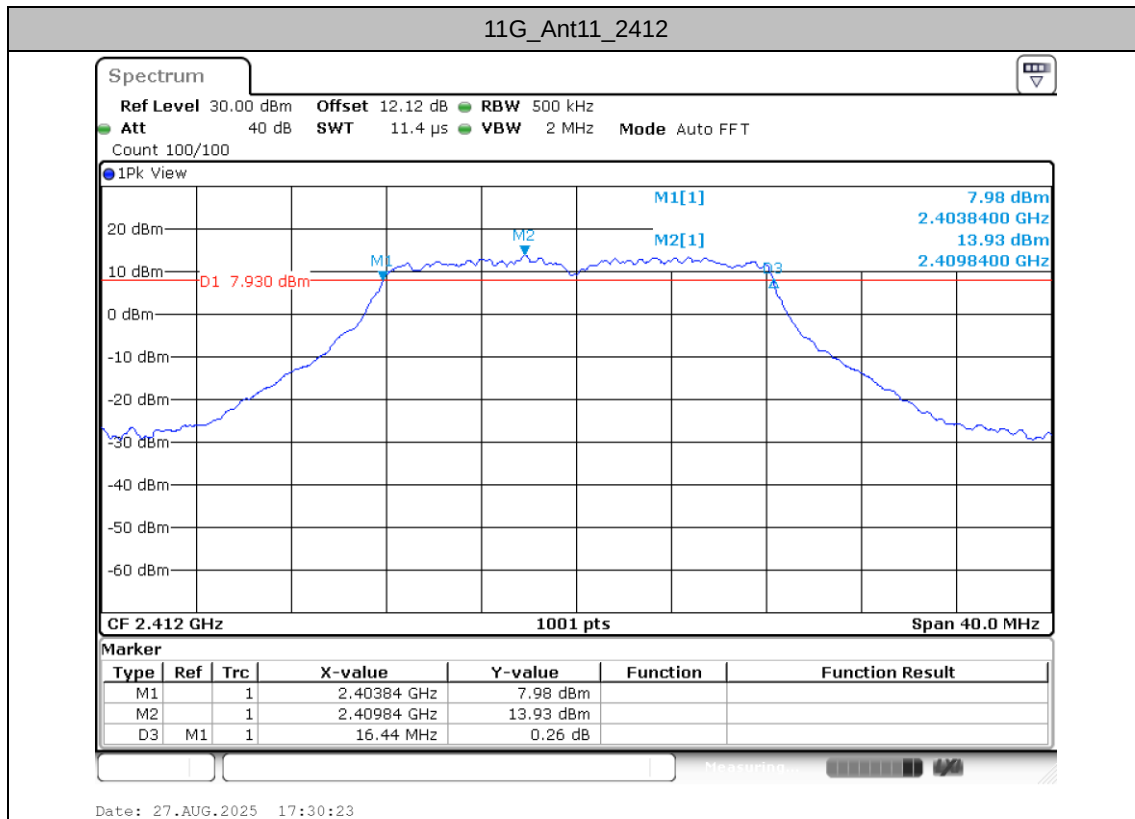


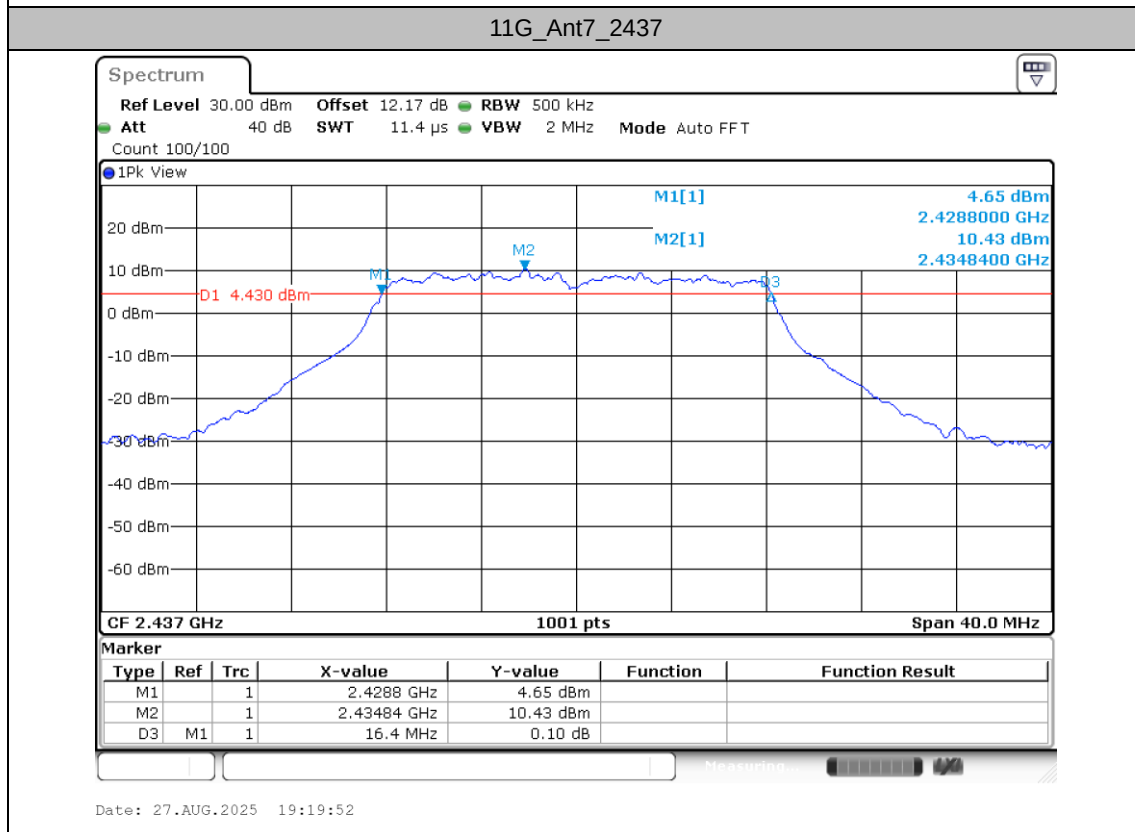
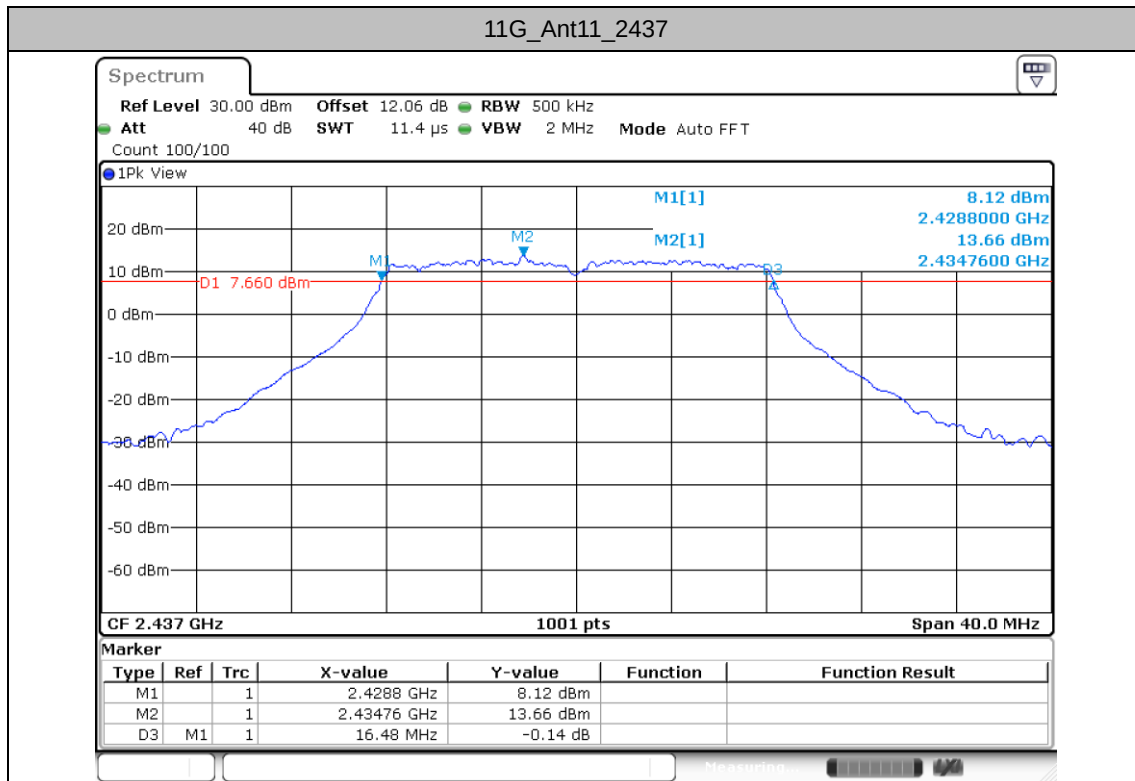
Test Graphs











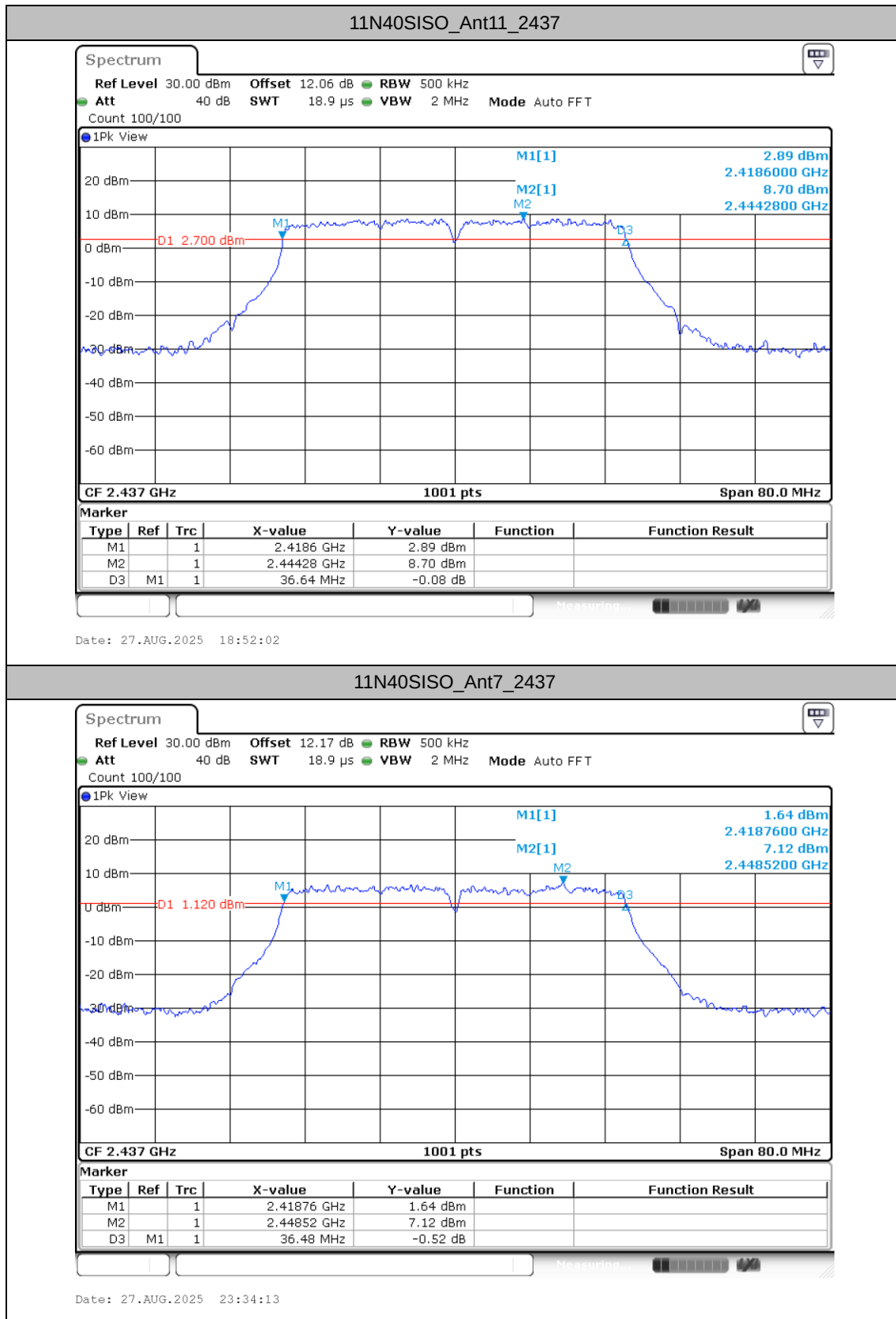


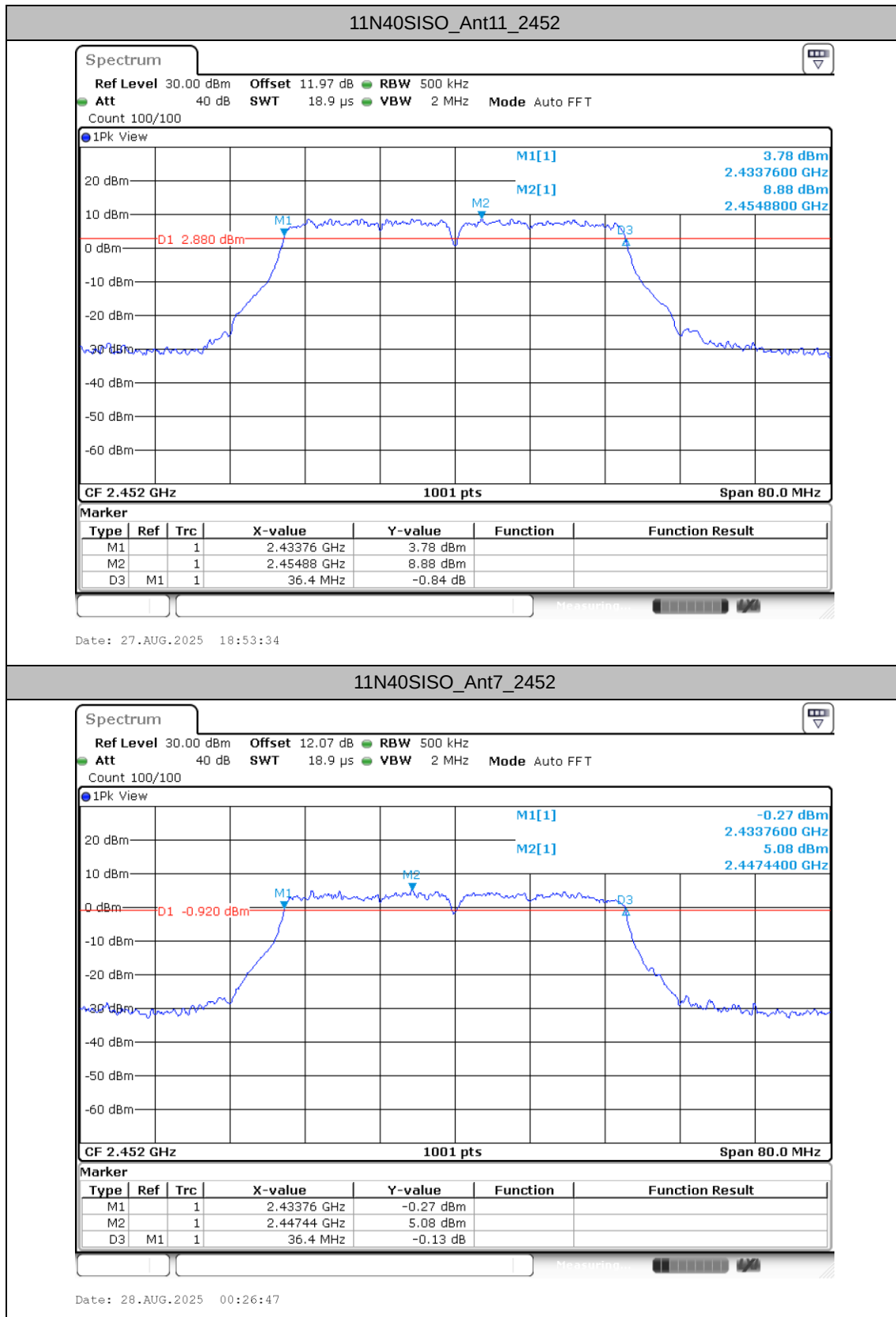


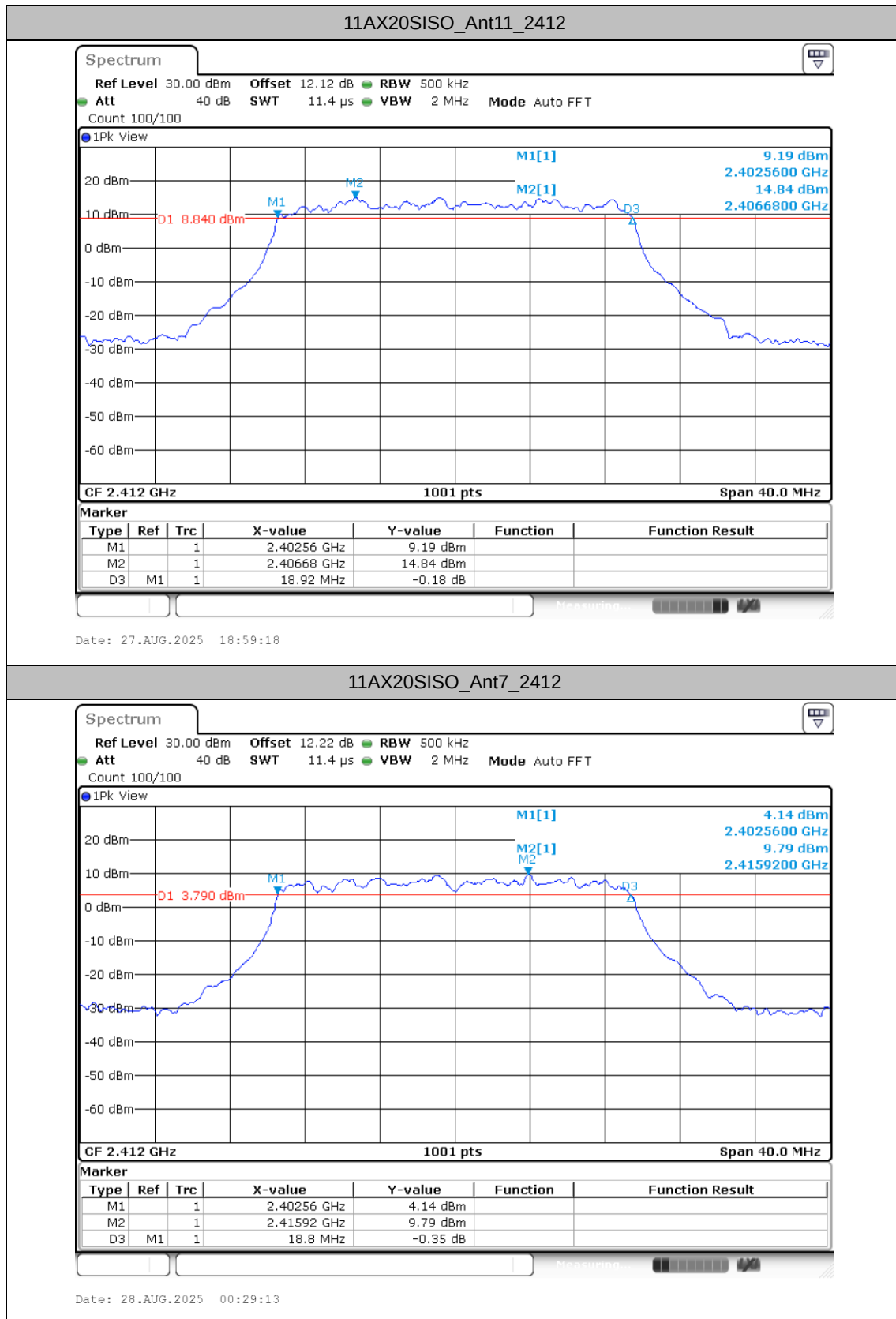


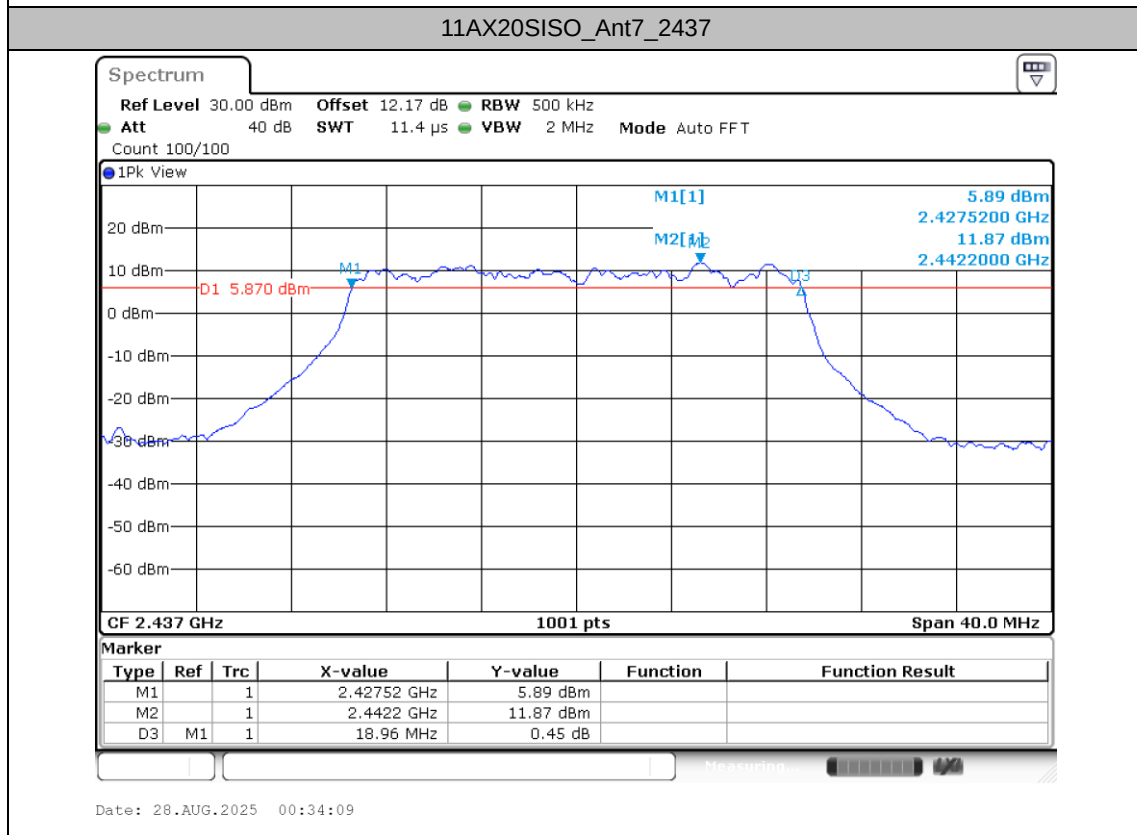
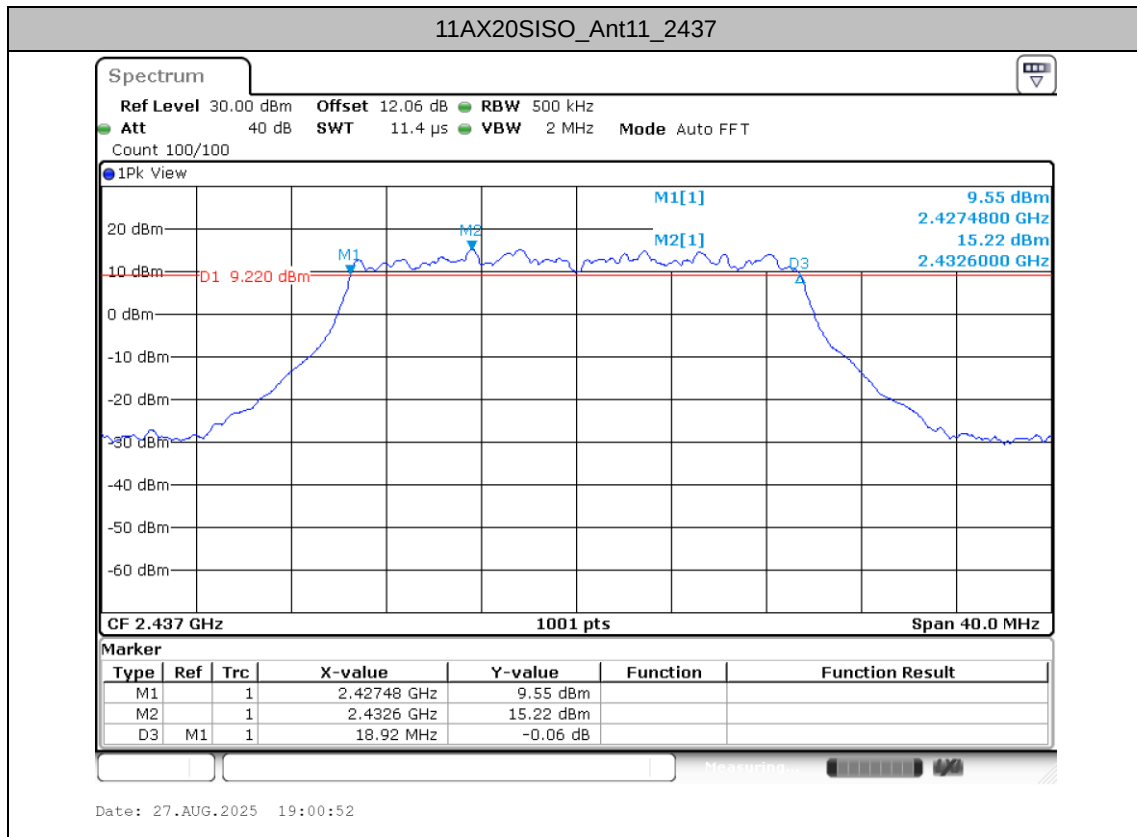


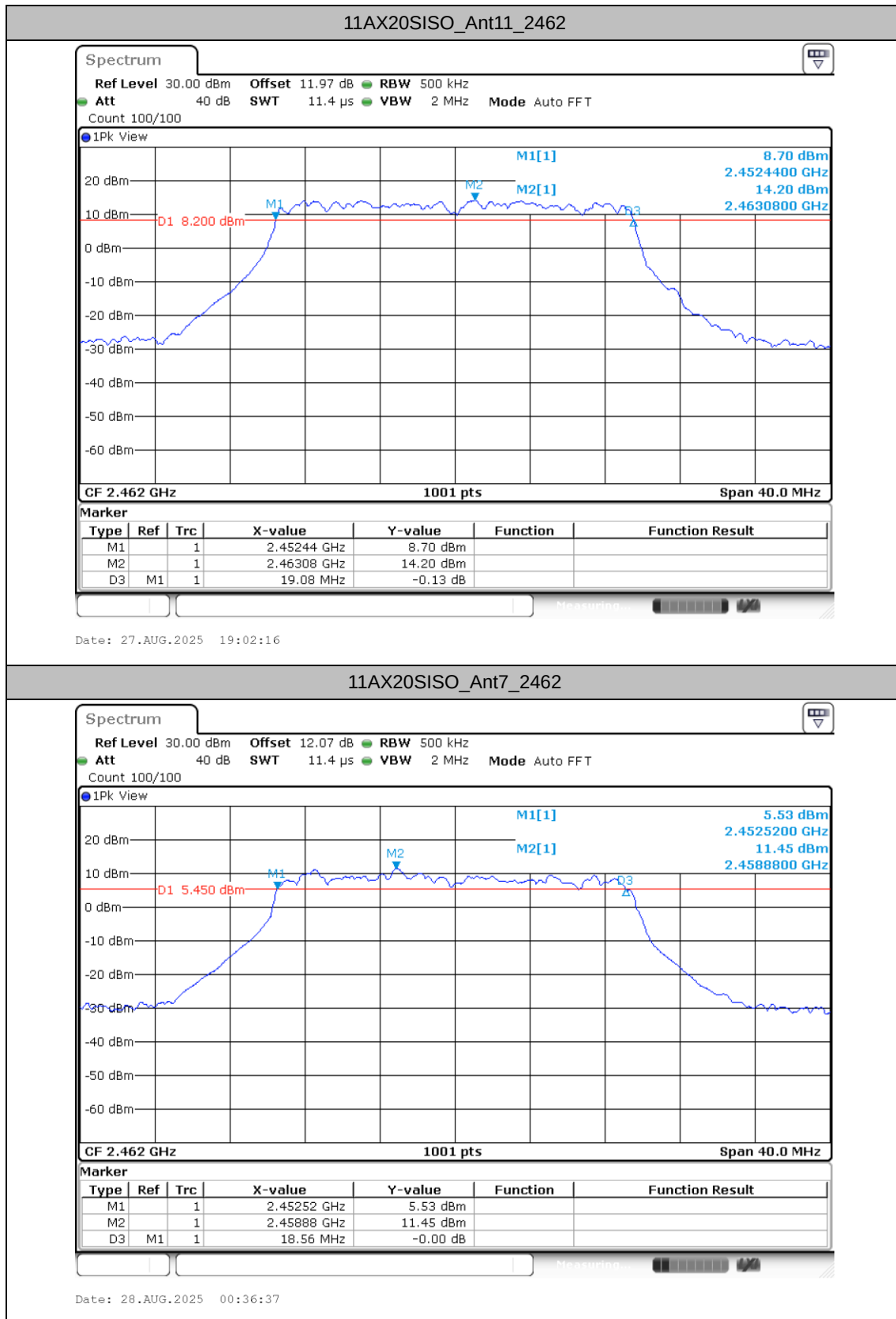


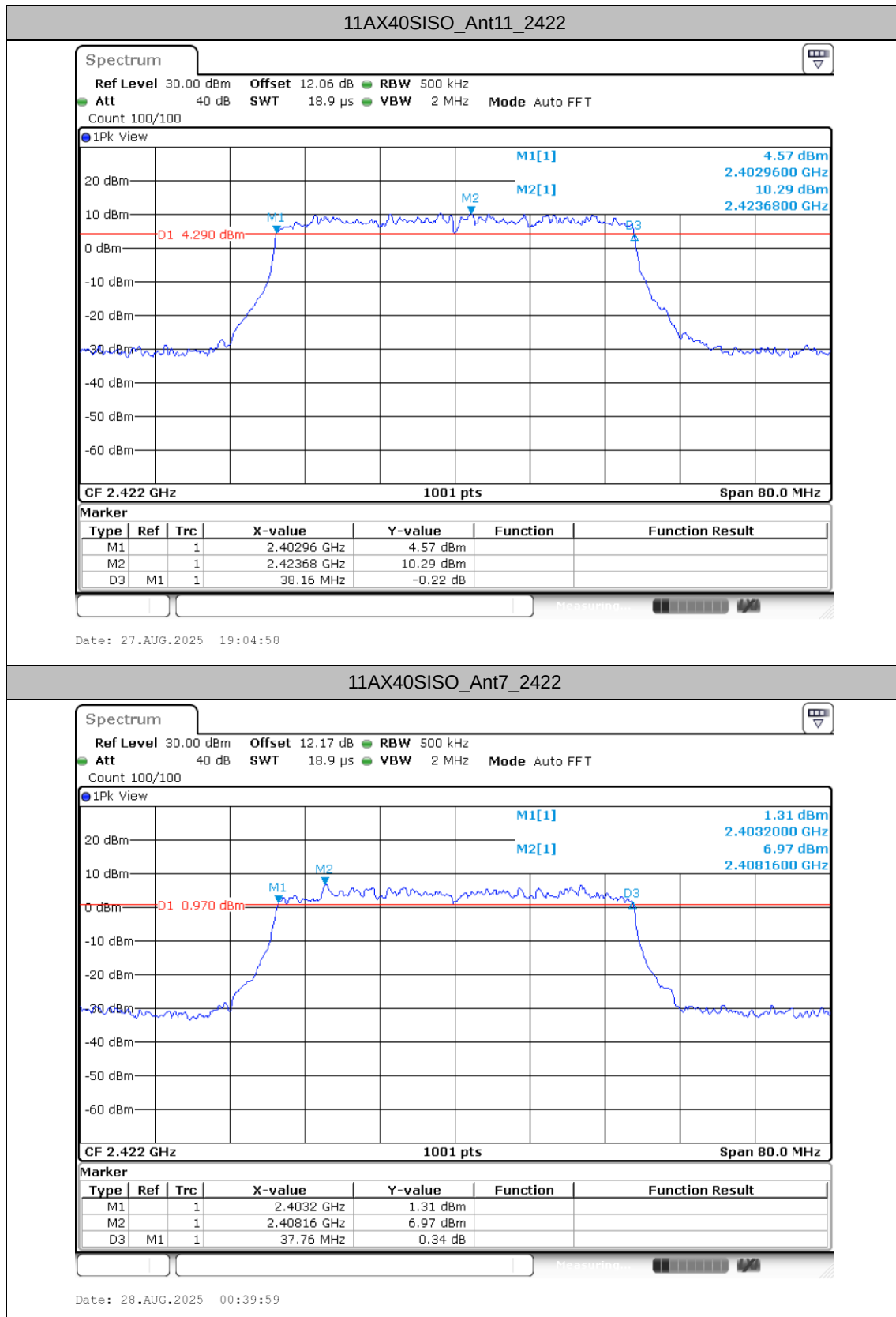


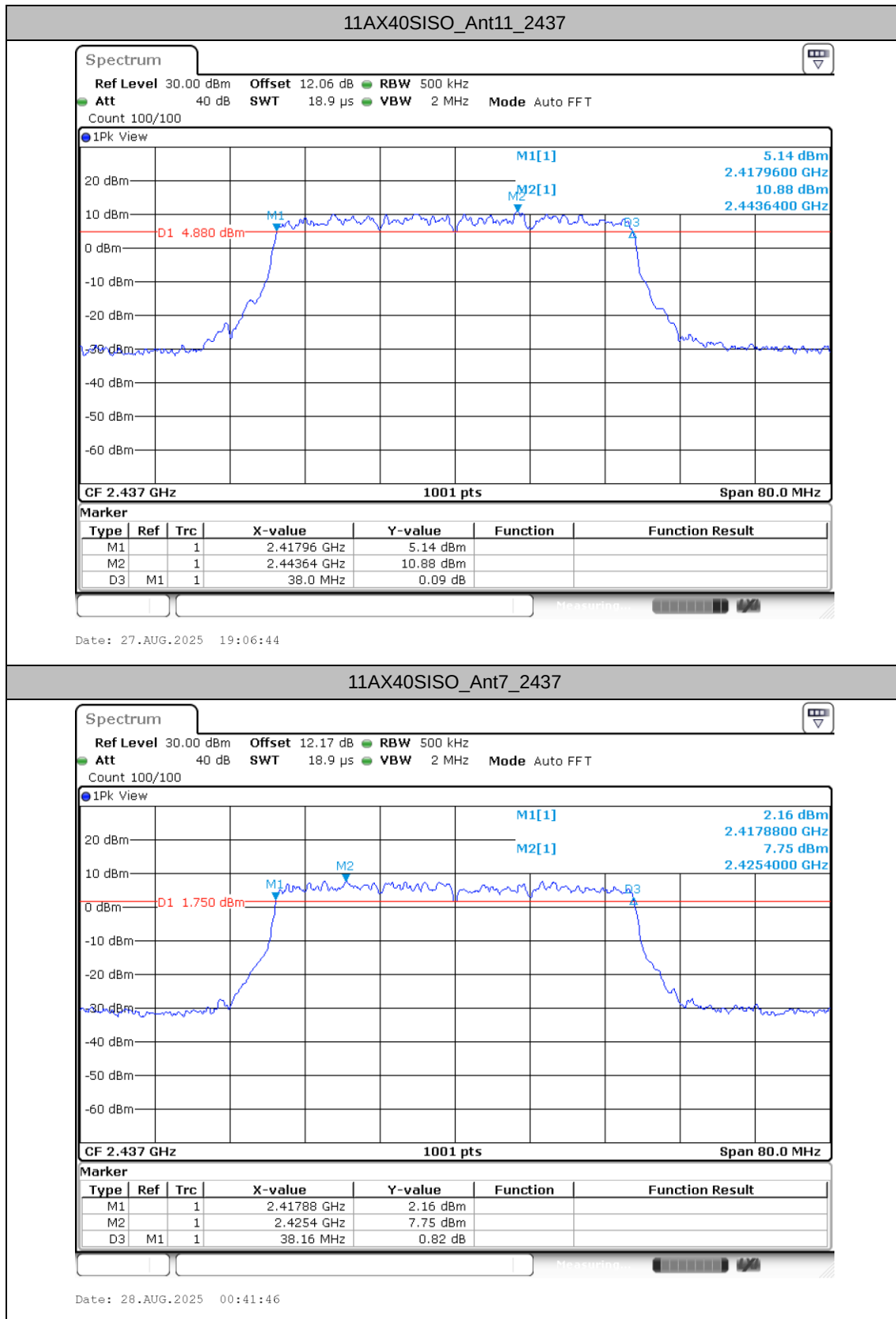


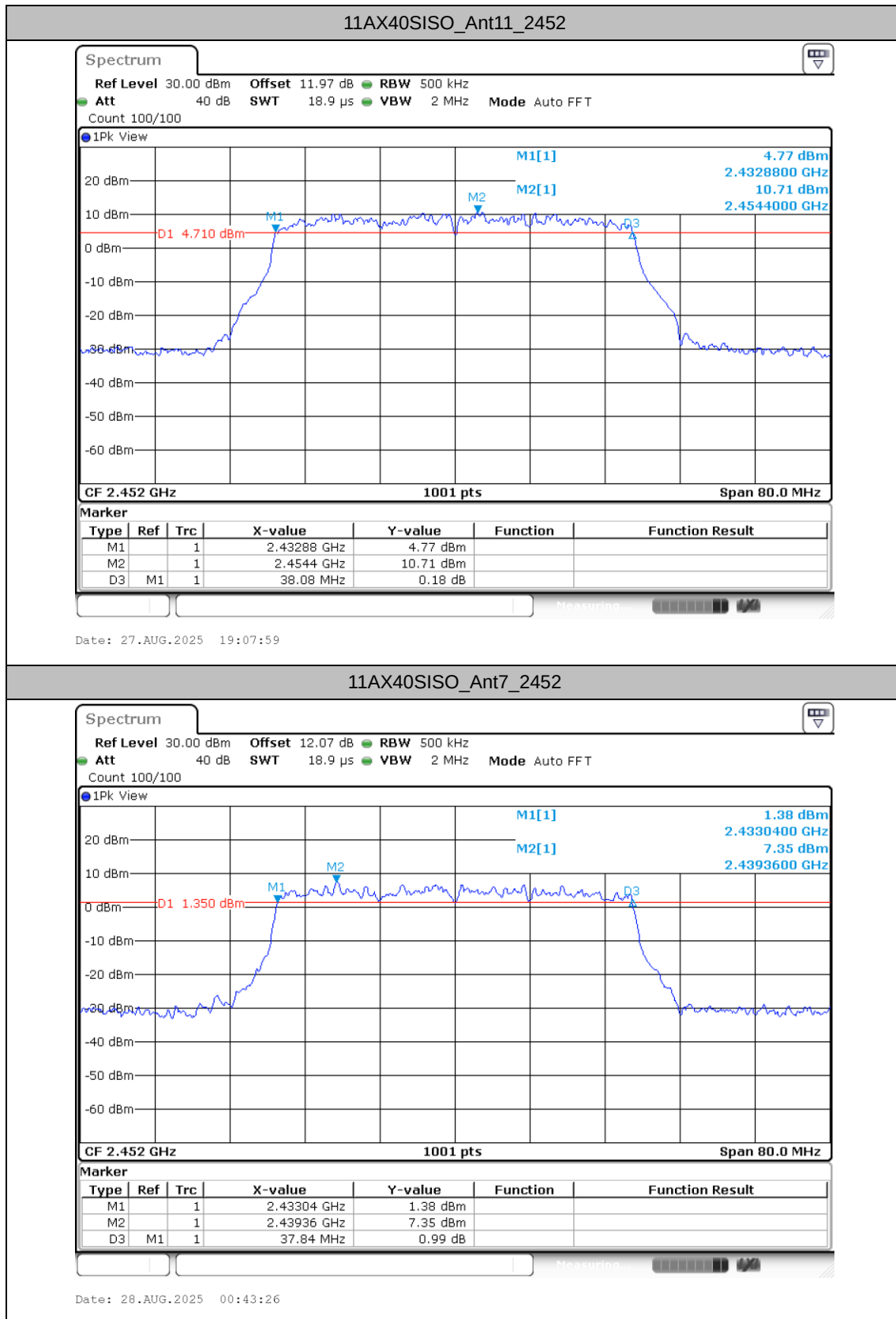














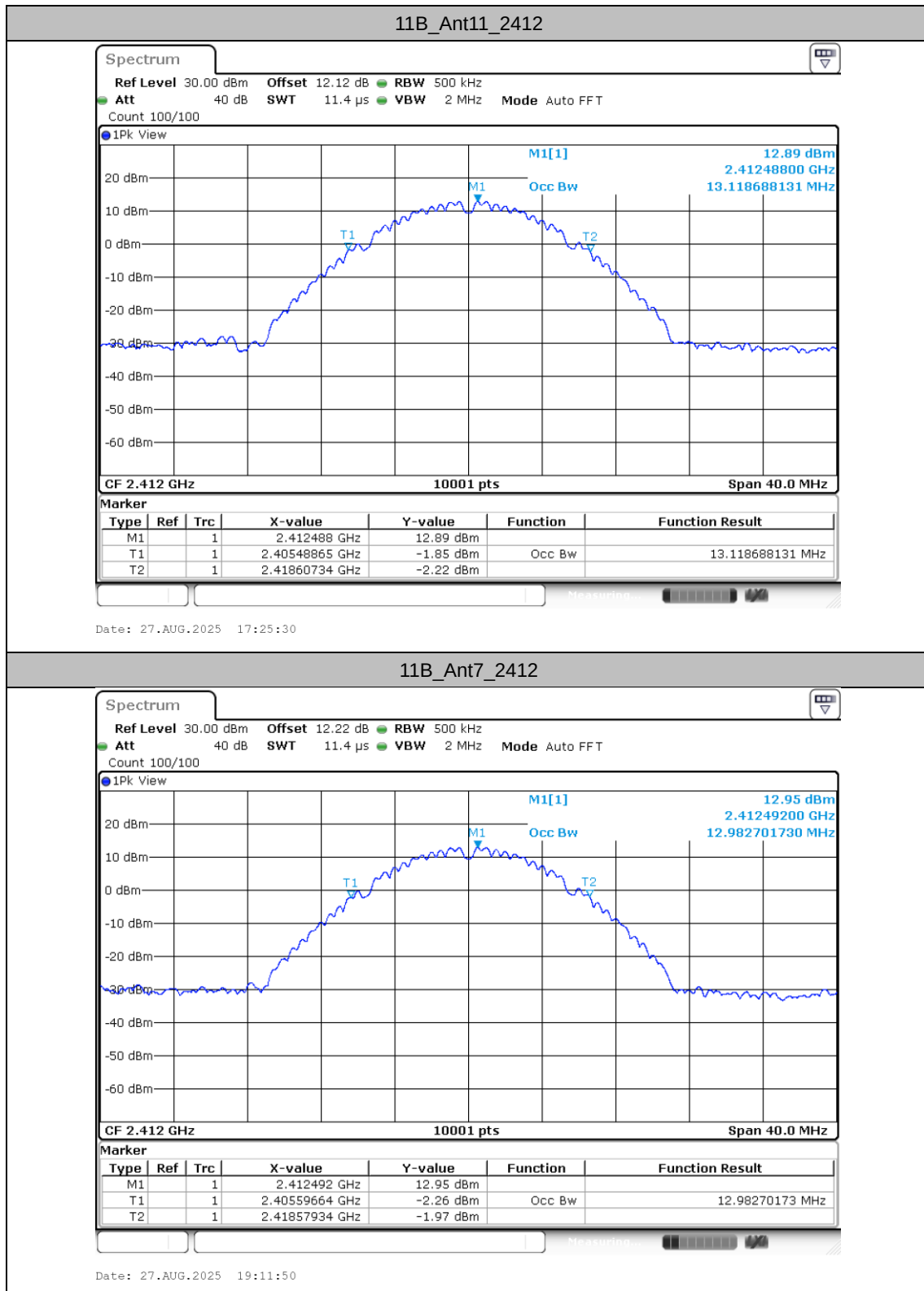
Occupied Channel Bandwidth

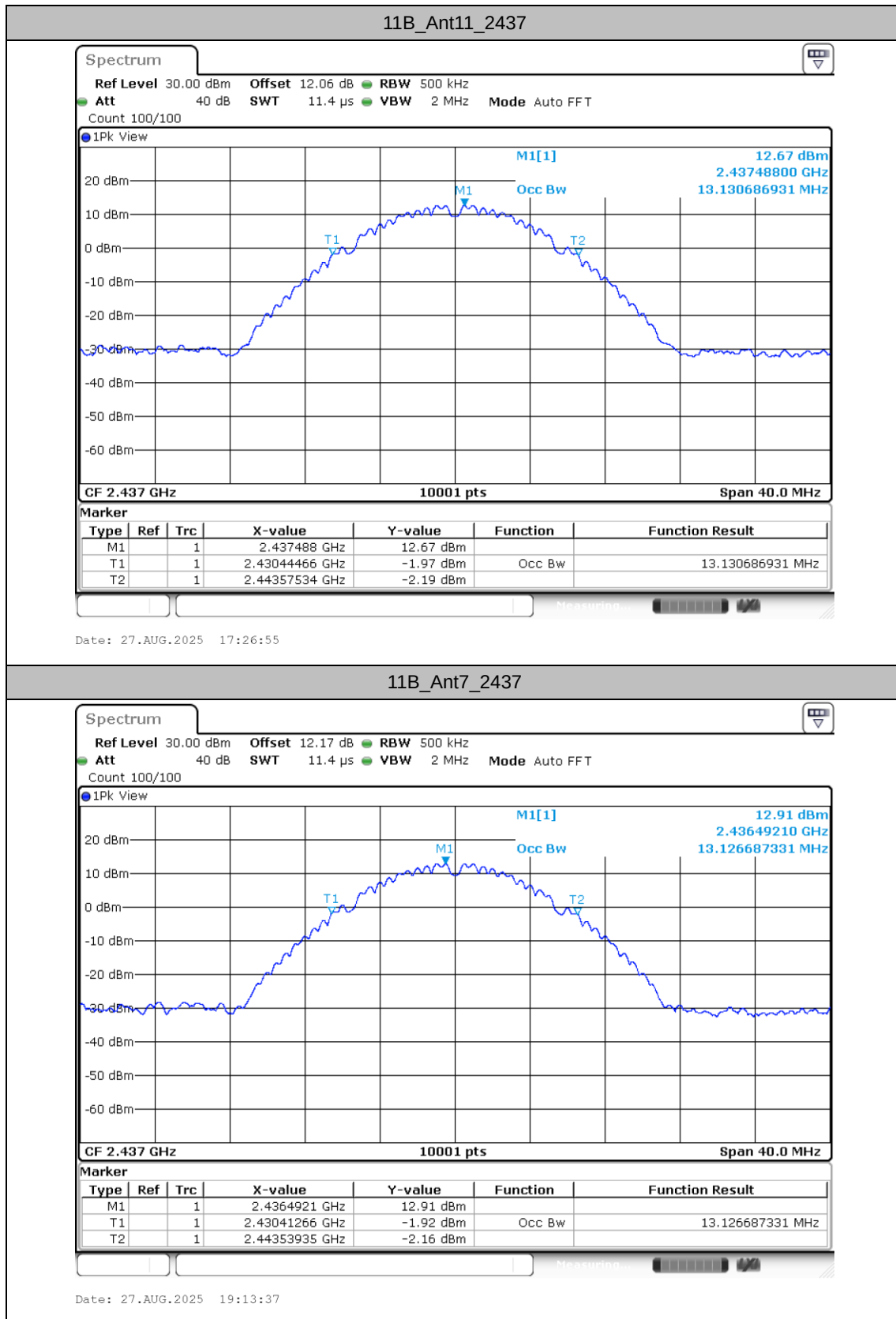
Test Result

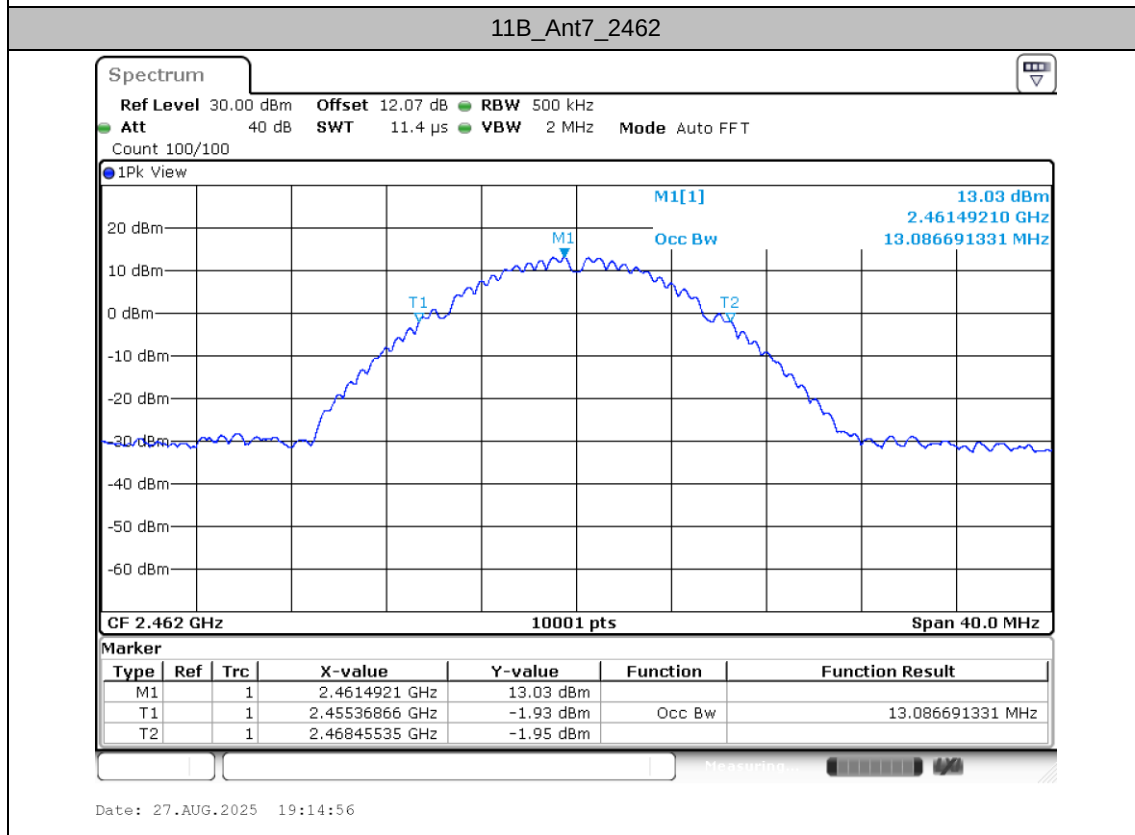
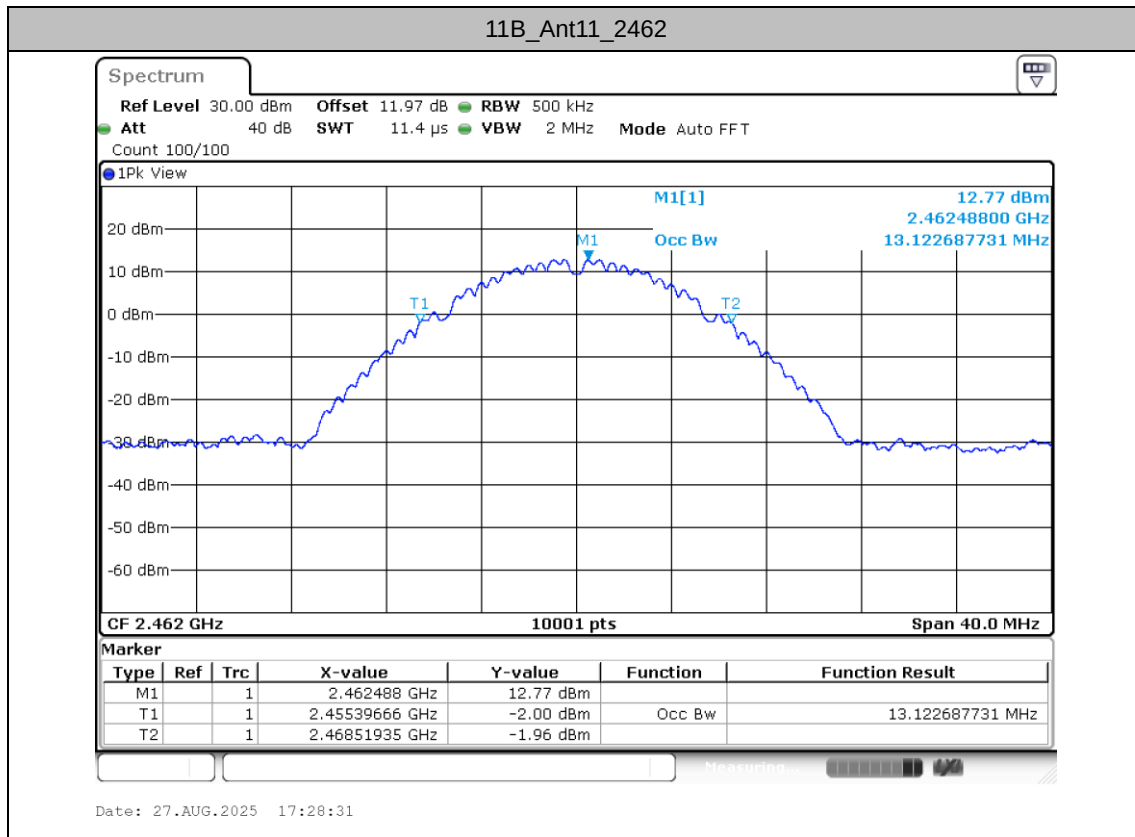
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11B	Ant11	2412	13.119	2405.4887	2418.6073
	Ant7	2412	12.983	2405.5966	2418.5793
	Ant11	2437	13.131	2430.4447	2443.5753
	Ant7	2437	13.127	2430.4127	2443.5393
	Ant11	2462	13.123	2455.3967	2468.5193
	Ant7	2462	13.087	2455.3687	2468.4554
11G	Ant11	2412	17.422	2403.1329	2420.5551
	Ant7	2412	17.026	2403.5768	2420.6031
	Ant11	2437	17.310	2428.1969	2445.5071
	Ant7	2437	17.138	2428.4129	2445.5511
	Ant11	2462	17.334	2453.1249	2470.4592
	Ant7	2462	17.018	2453.4369	2470.4552
11N20SISO	Ant11	2412	18.166	2402.9209	2421.0871
	Ant7	2412	18.426	2402.8289	2421.2551
	Ant11	2437	18.410	2427.7609	2446.1711
	Ant7	2437	18.358	2427.7489	2446.1071
	Ant11	2462	18.722	2452.3850	2471.1071
	Ant7	2462	18.266	2452.7809	2471.0471
11N40SISO	Ant11	2422	37.092	2403.5938	2440.6861
	Ant7	2422	37.124	2403.4259	2440.5501
	Ant11	2437	37.412	2418.3619	2455.7741
	Ant7	2437	36.868	2418.4739	2455.3422
	Ant11	2452	37.124	2433.4339	2470.5581
	Ant7	2452	36.764	2433.5378	2470.3022
11AX20SISO	Ant11	2412	19.050	2402.5249	2421.5750
	Ant7	2412	19.130	2402.4130	2421.5430
	Ant11	2437	19.106	2427.4570	2446.5630
	Ant7	2437	19.170	2427.4690	2446.6390
	Ant11	2462	19.086	2452.4490	2471.5350
	Ant7	2462	19.102	2452.4210	2471.5230
11AX40SISO	Ant11	2422	38.124	2403.0419	2441.1661
	Ant7	2422	38.004	2403.1059	2441.1101
	Ant11	2437	38.076	2418.0419	2456.1181
	Ant7	2437	38.324	2417.6419	2455.9661
	Ant11	2452	38.028	2432.9699	2470.9981
	Ant7	2452	38.468	2432.8099	2471.2781

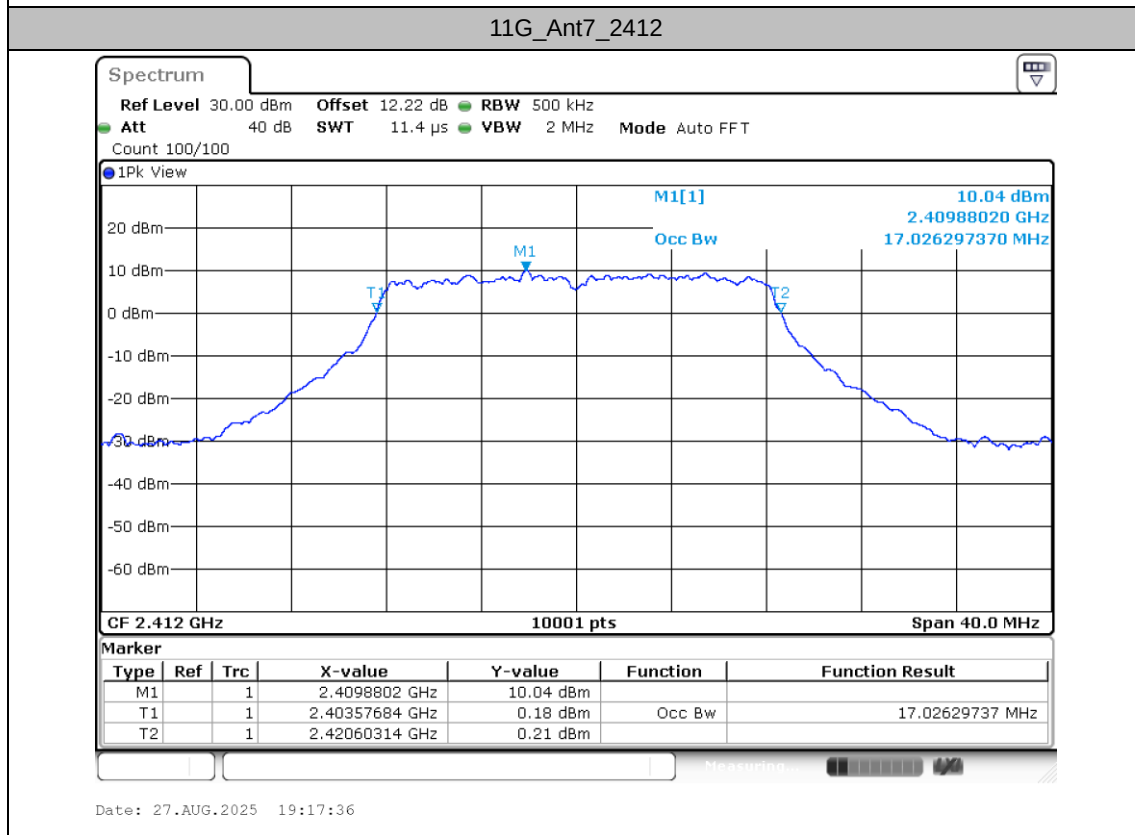
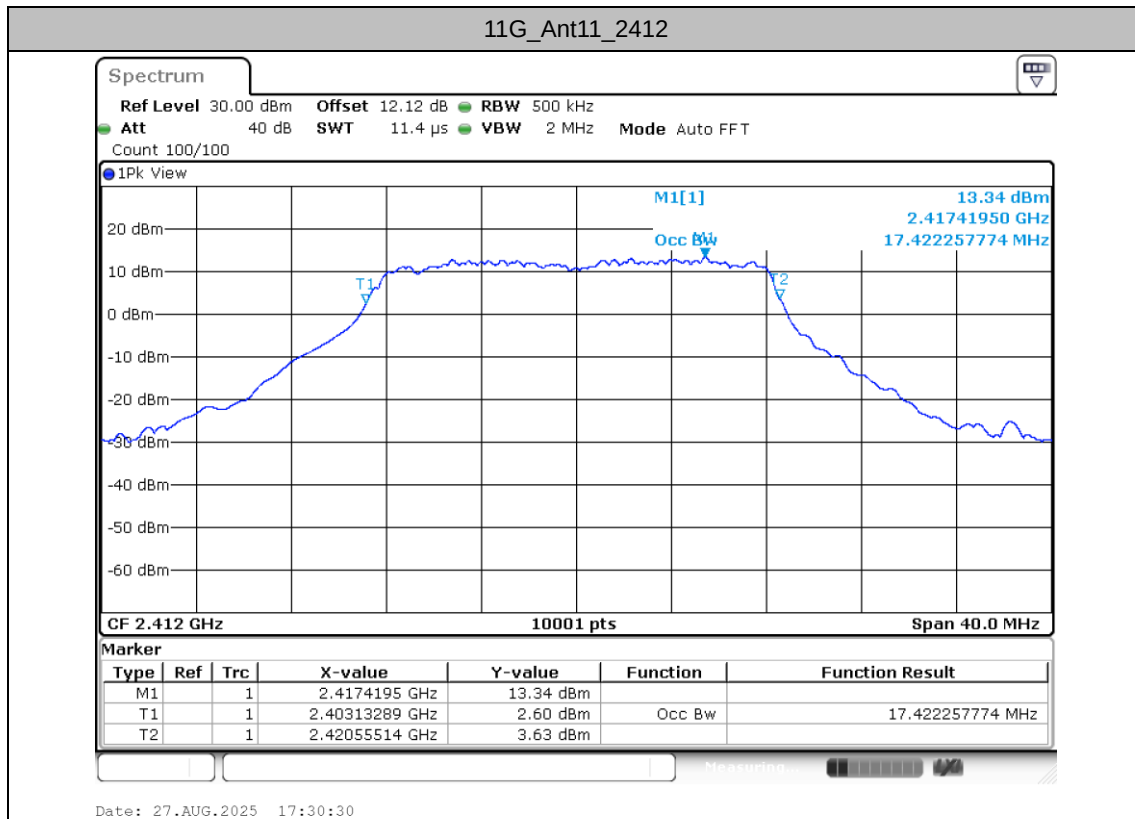


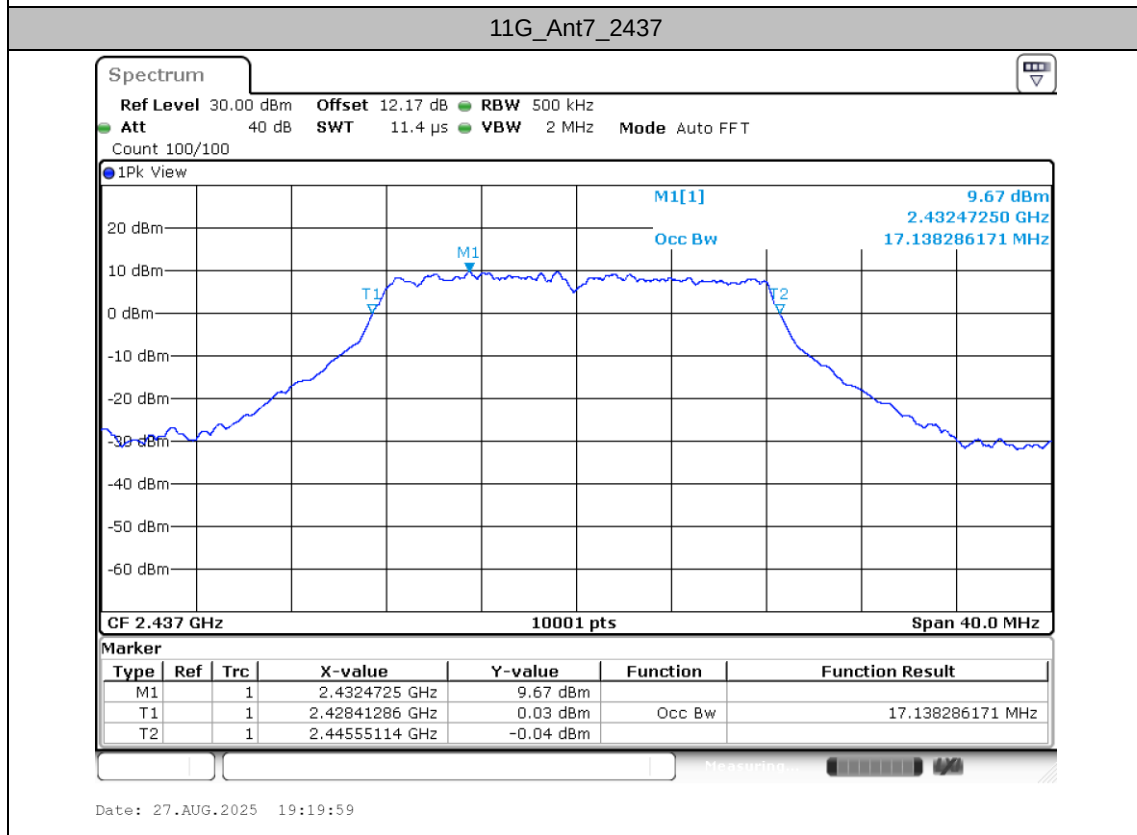
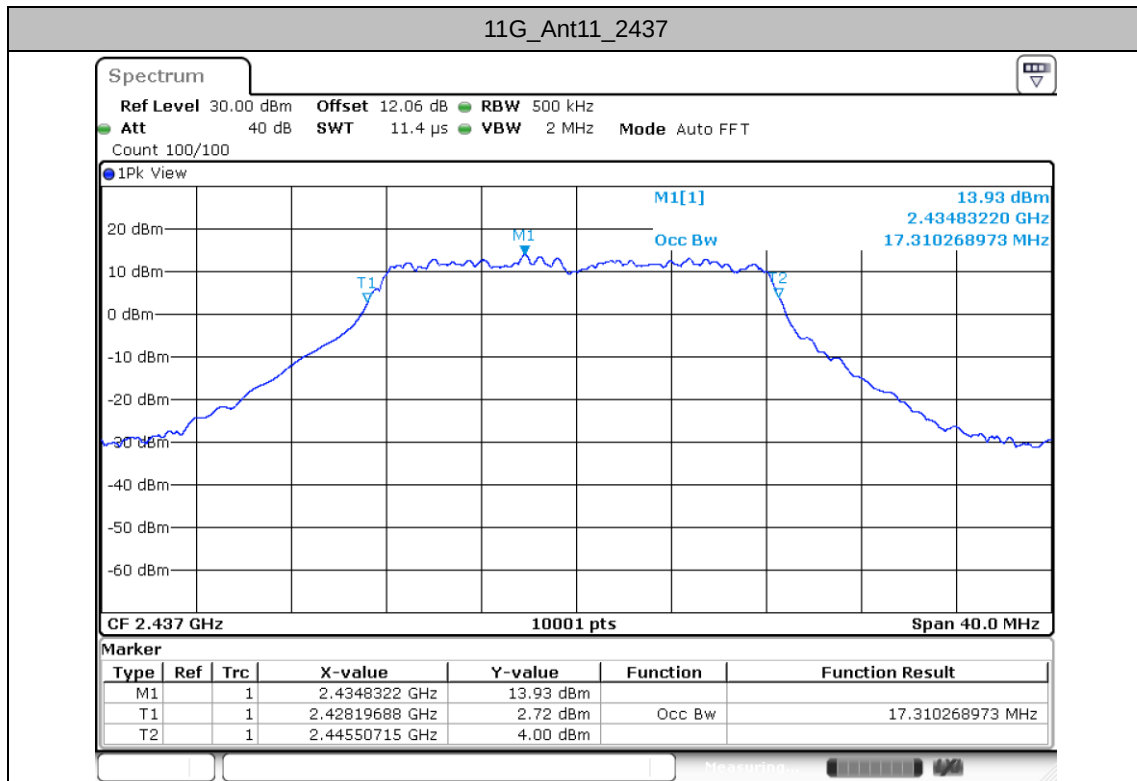
Test Graphs

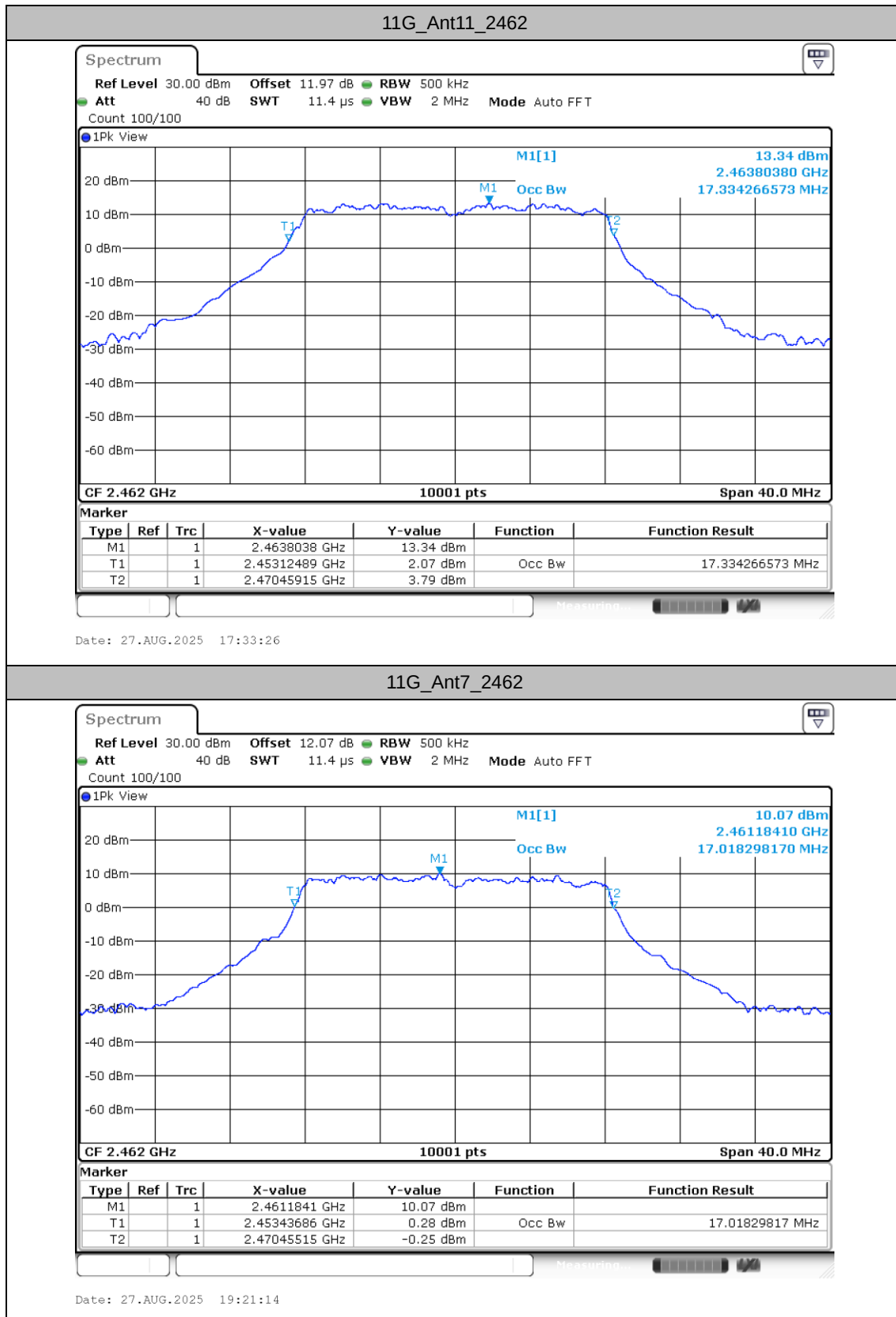


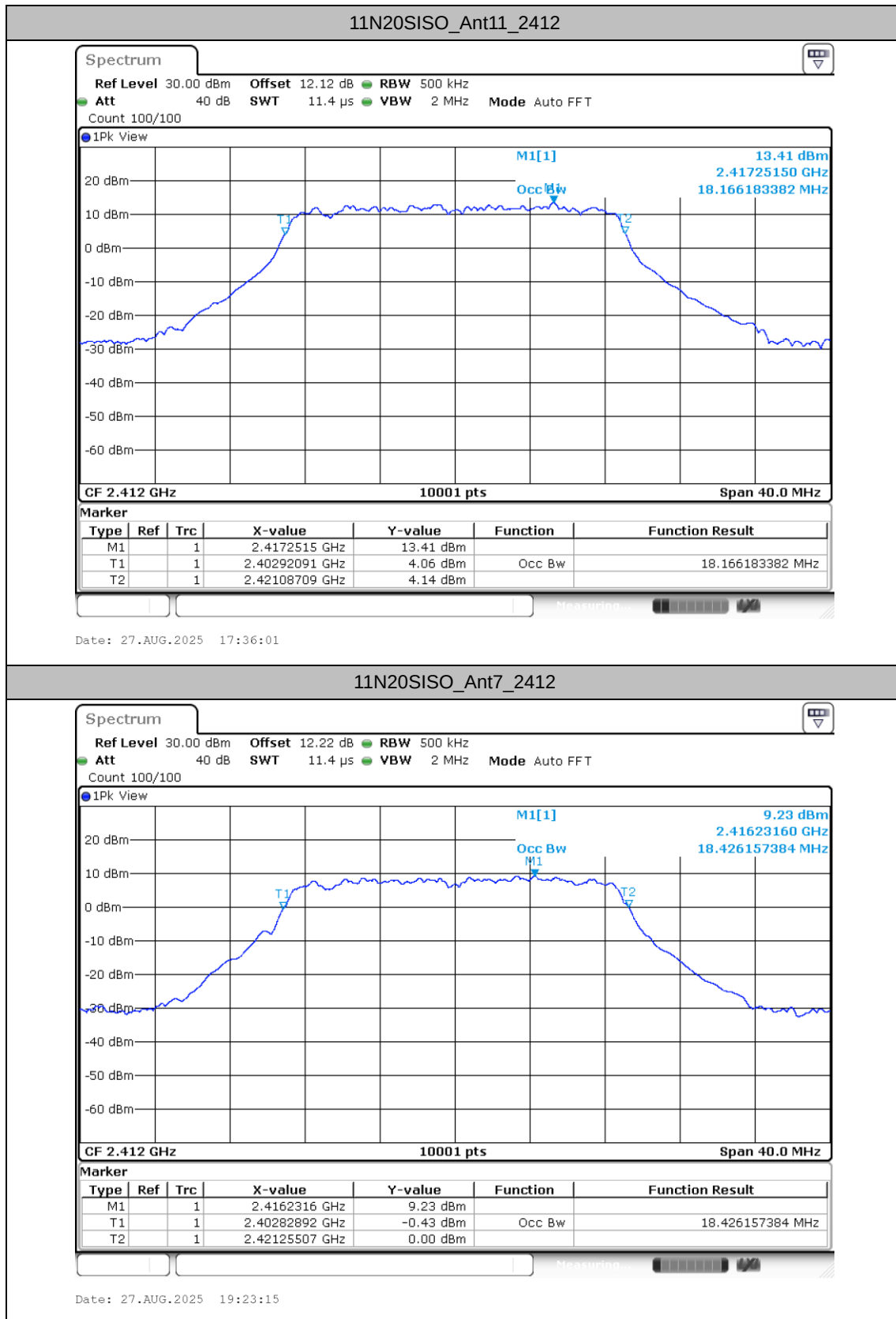






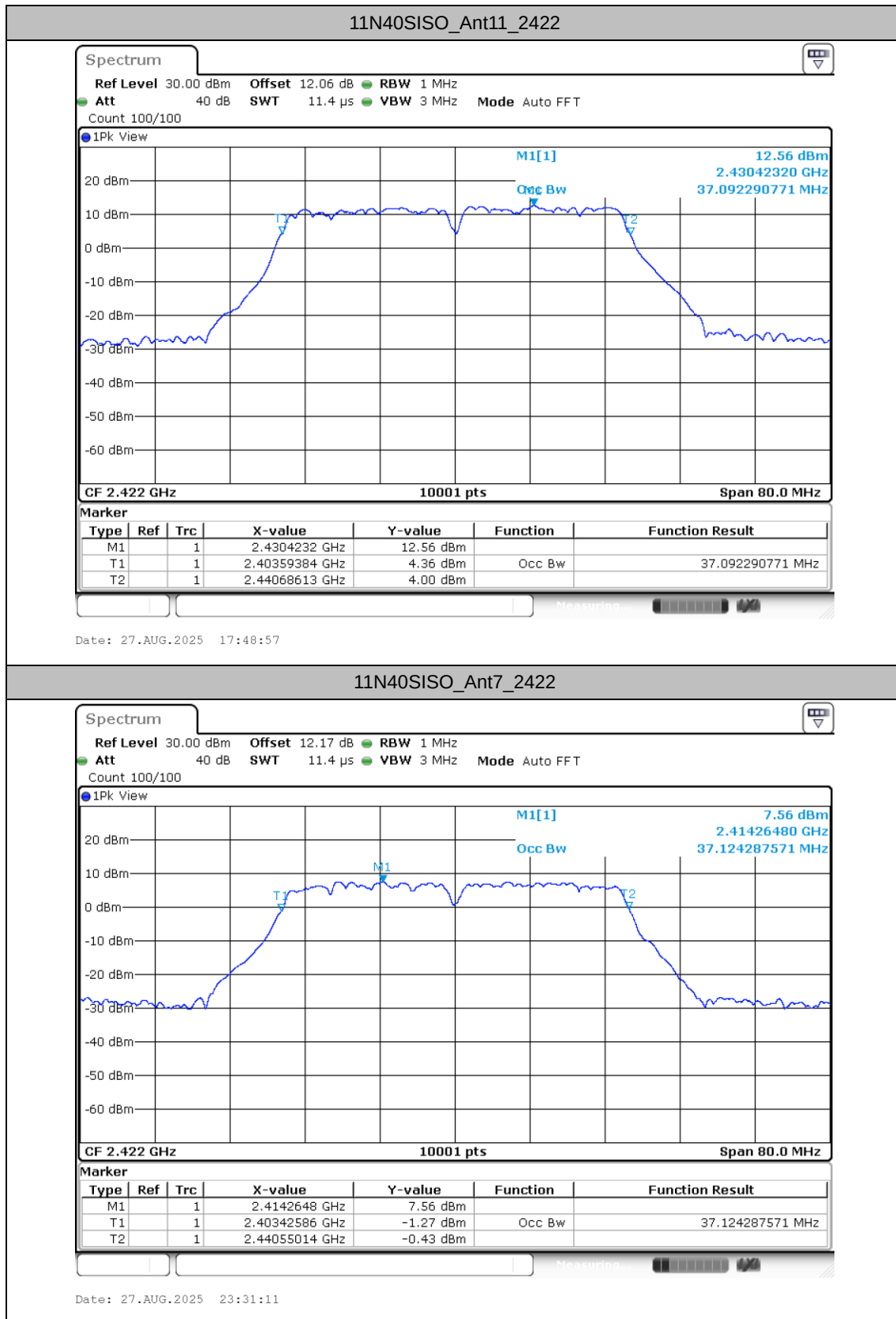


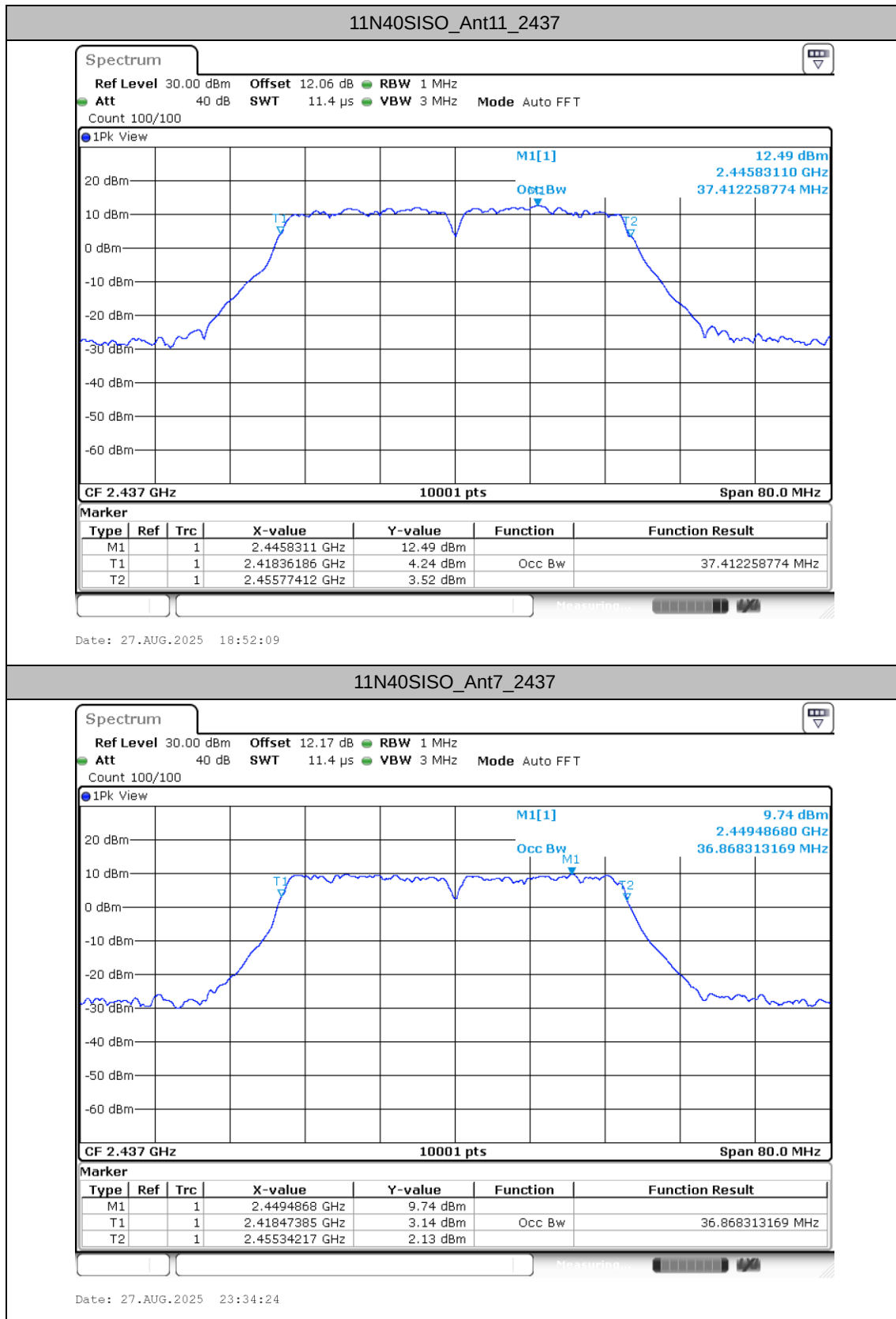


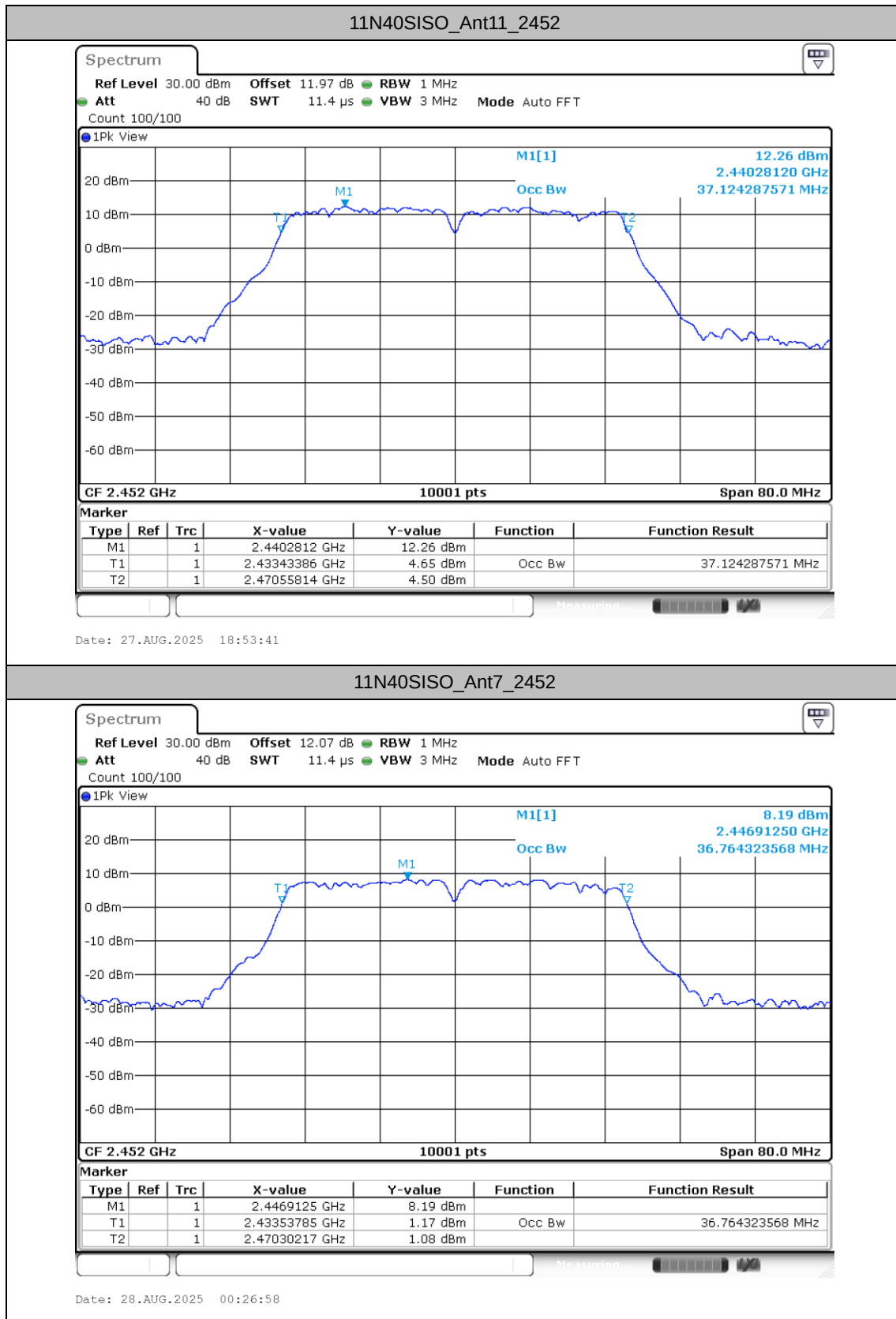


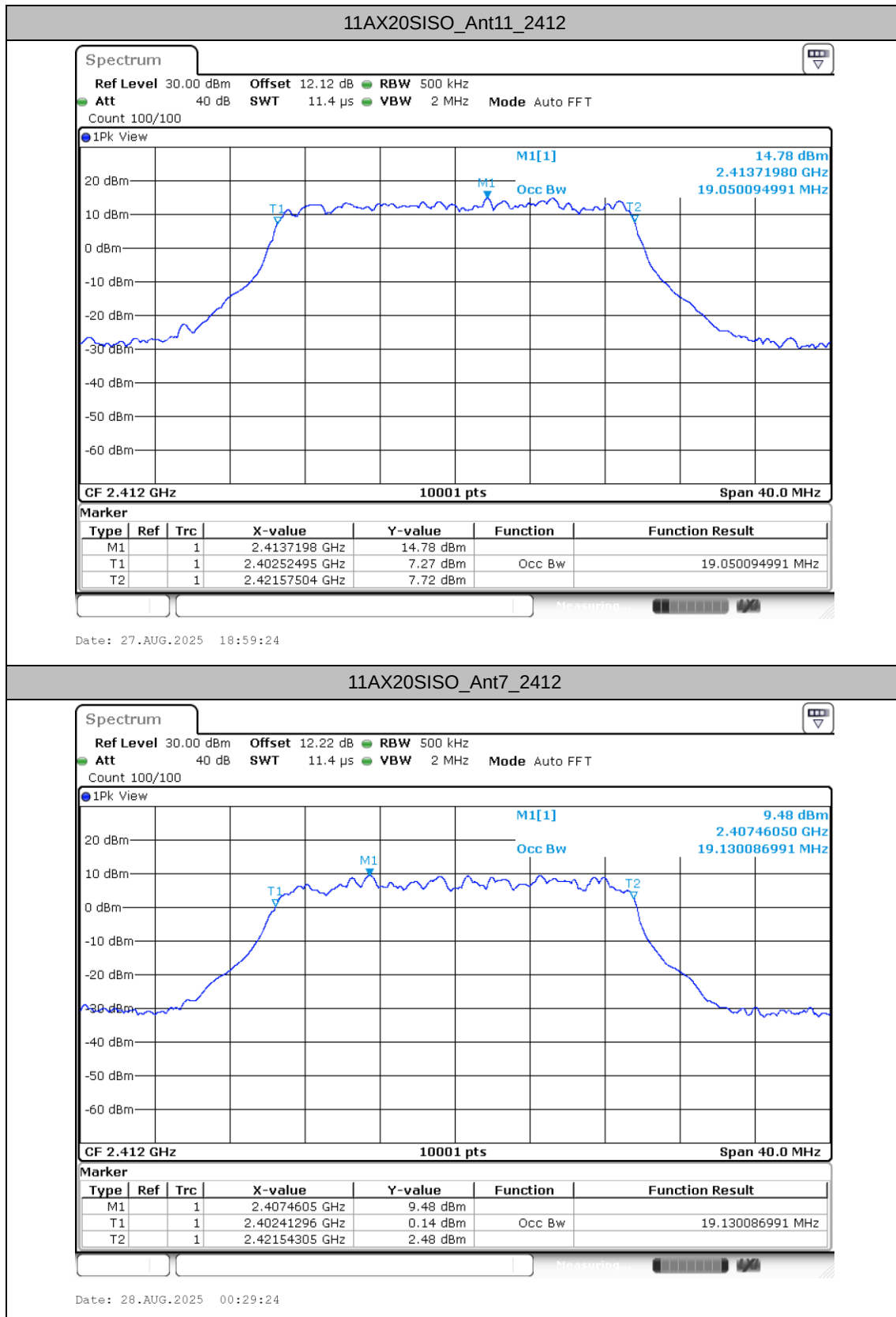


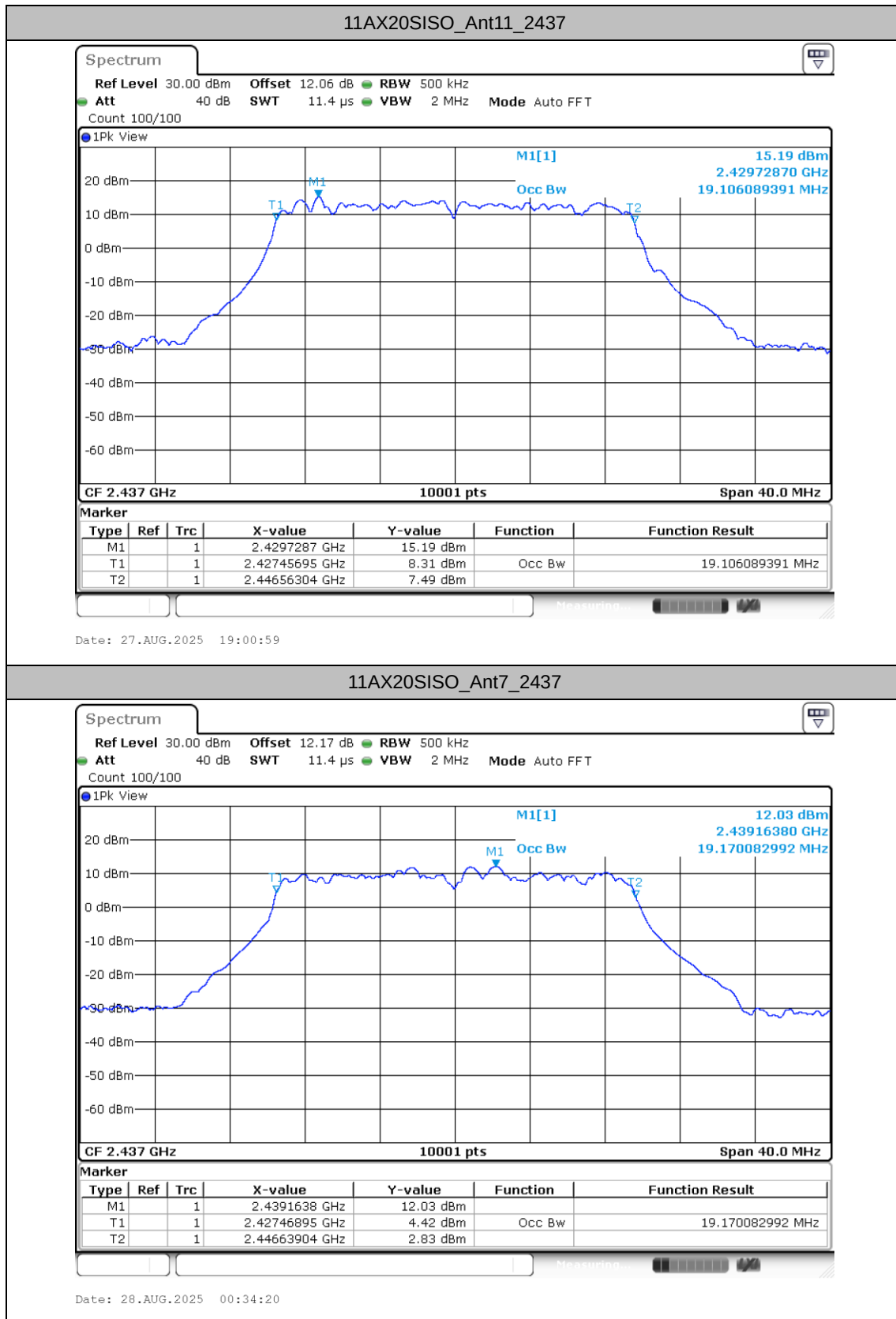


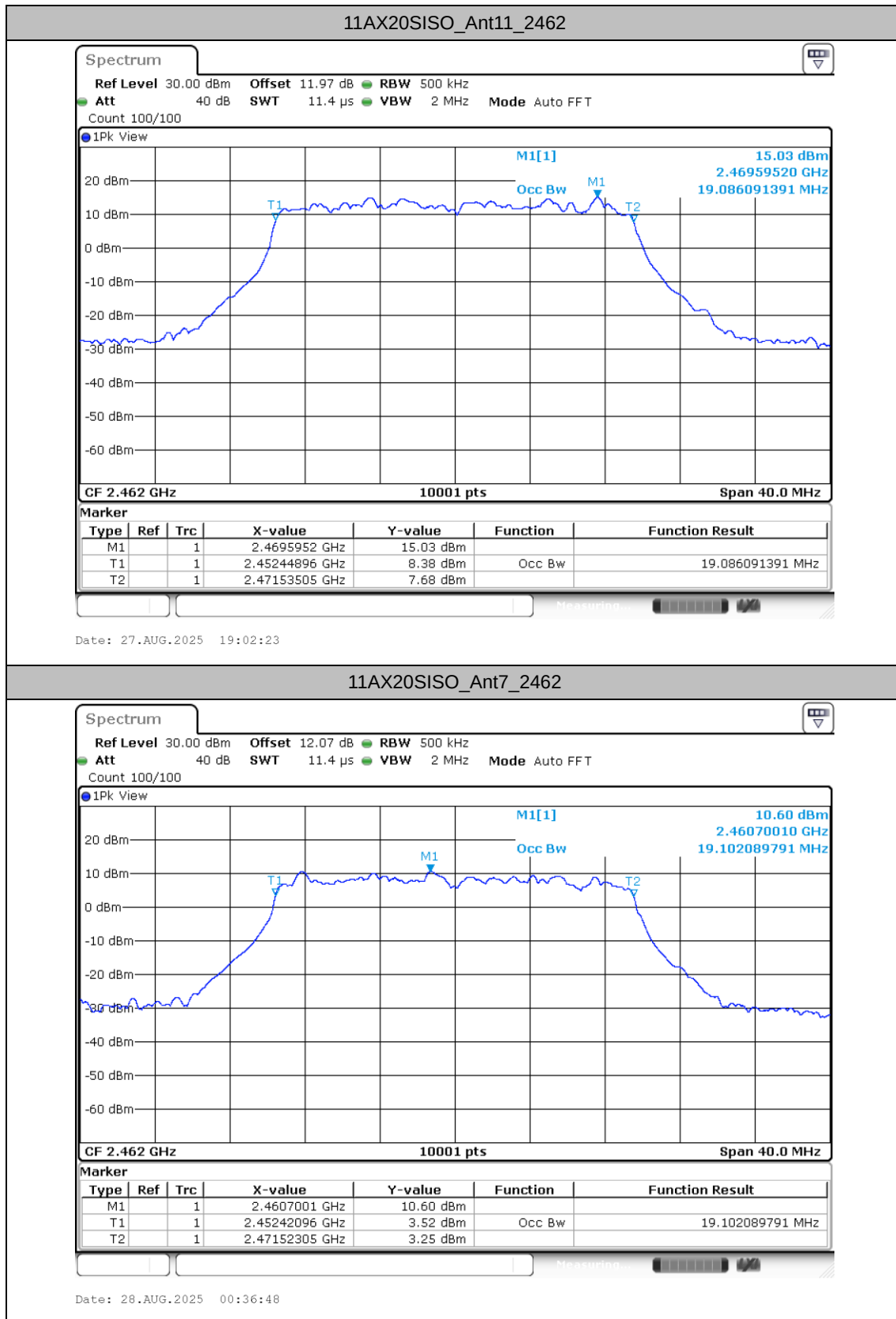


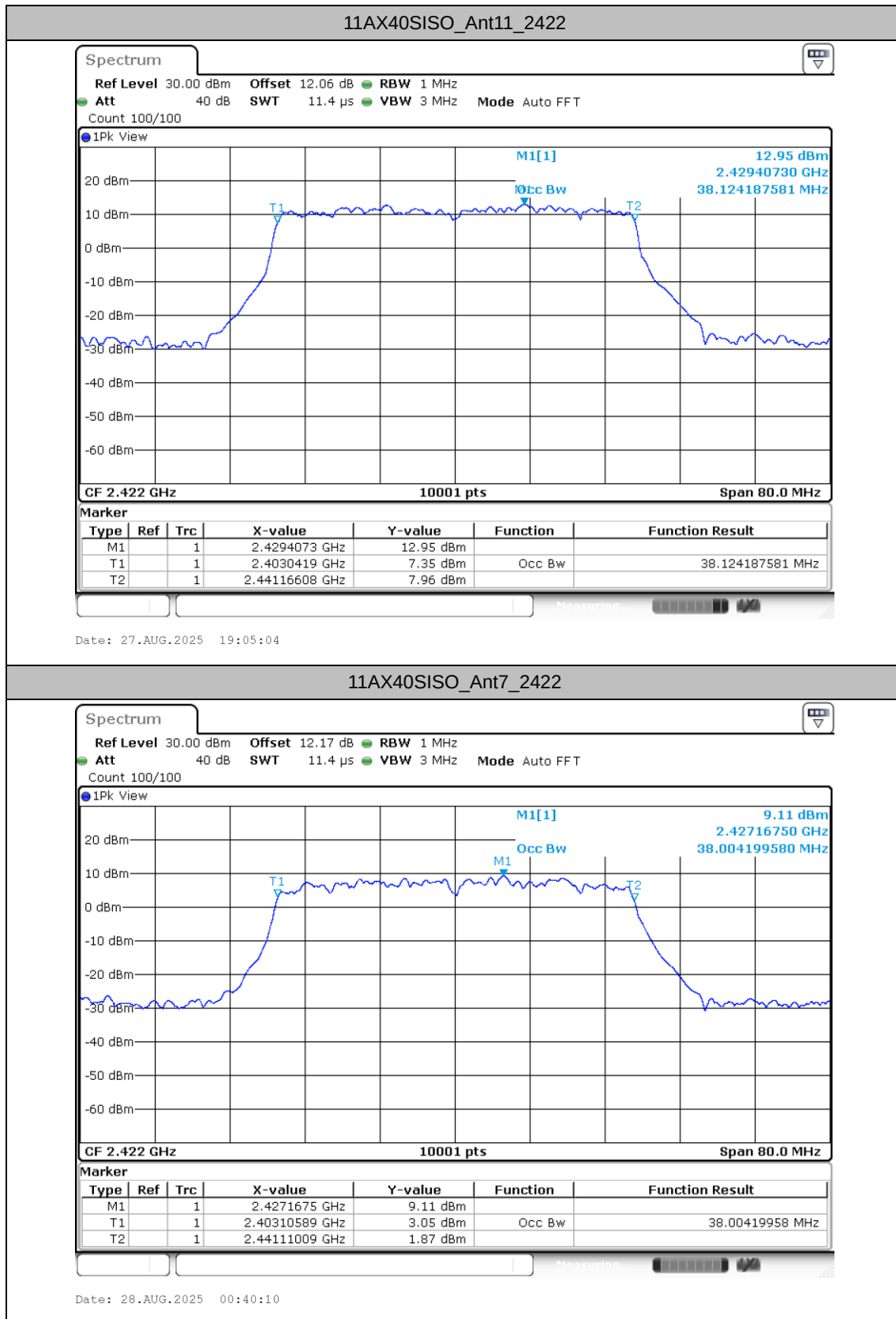


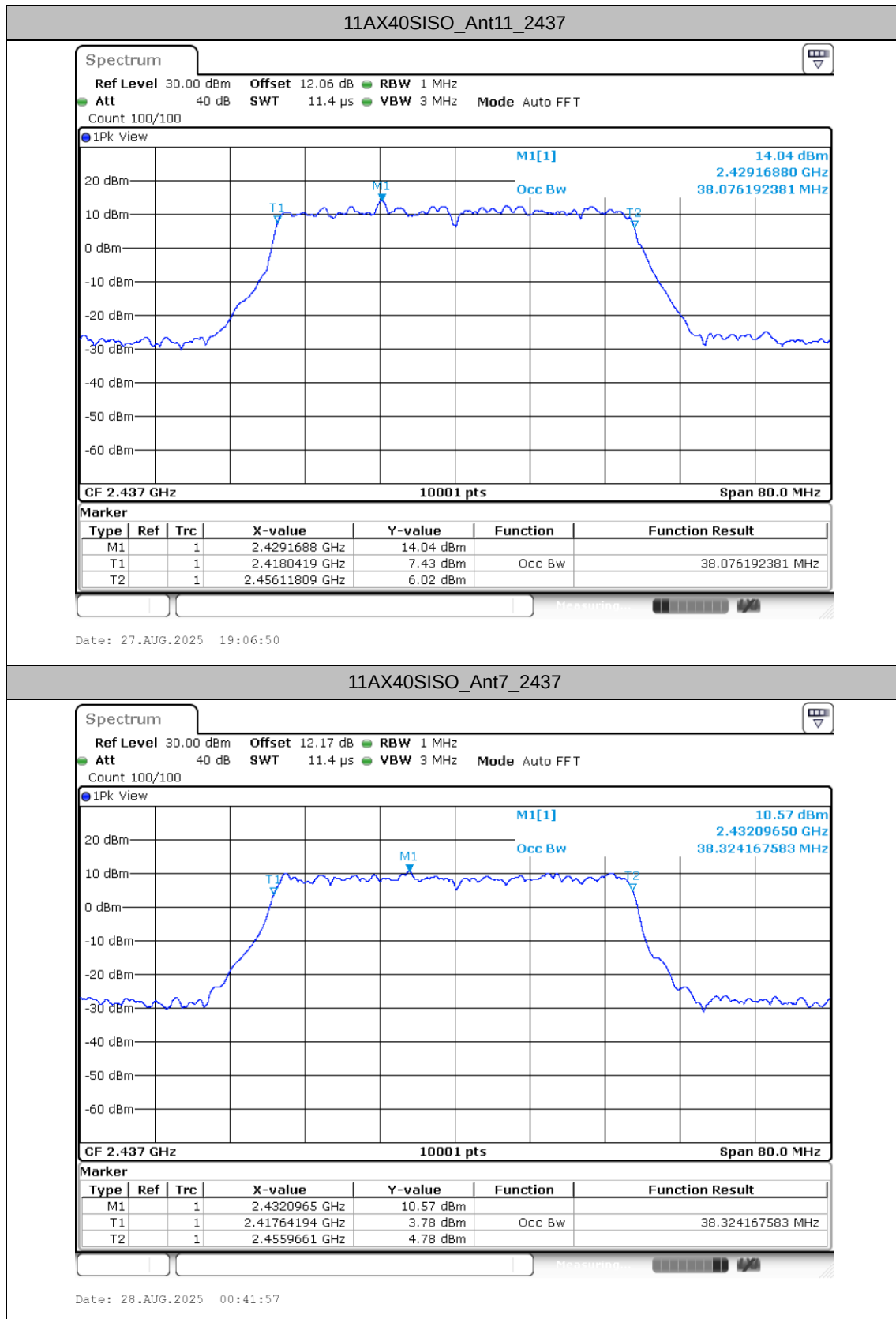


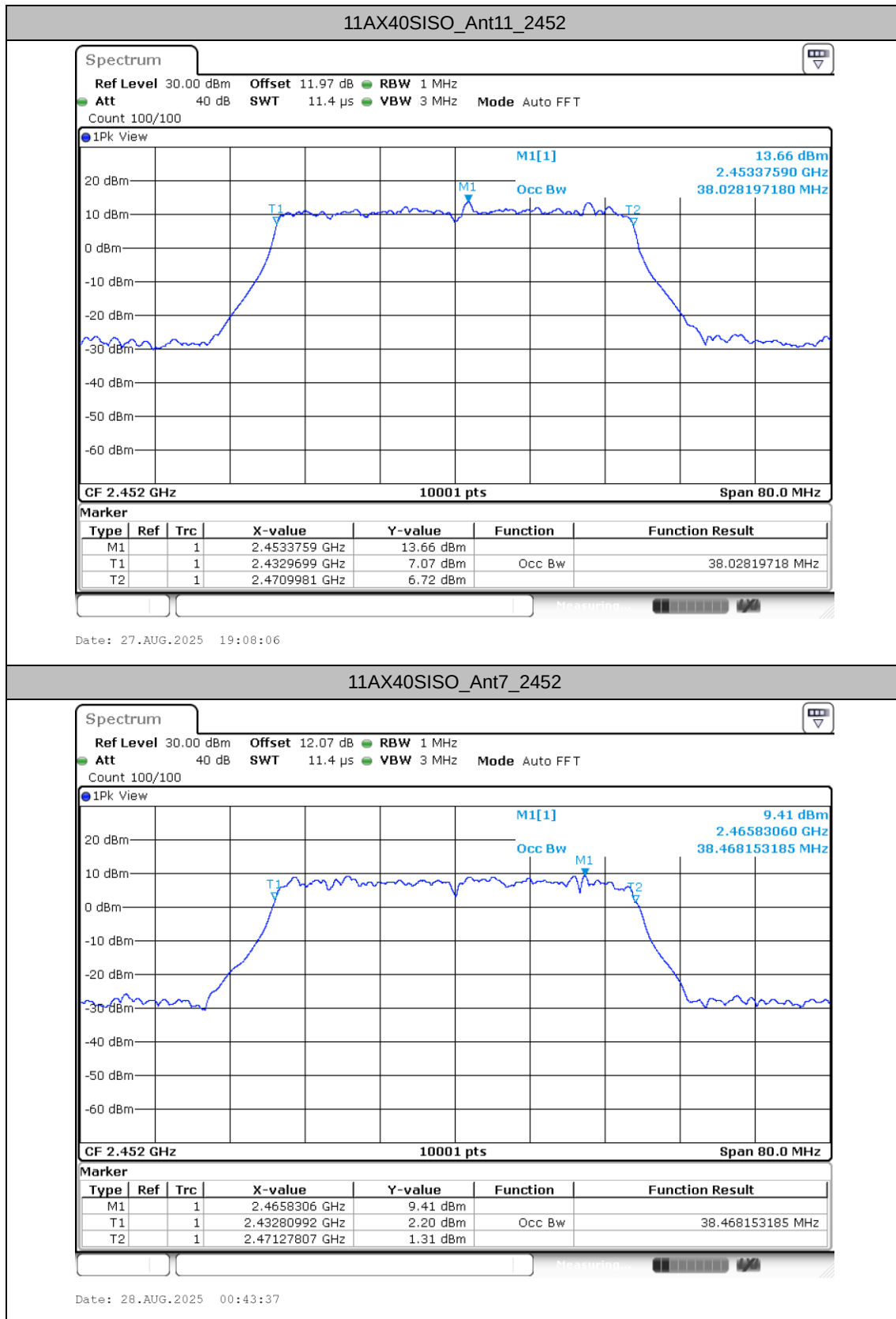














Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B	Ant11	2412	-3.43	≤8.00	PASS
	Ant7	2412	-0.92	≤8.00	PASS
	Ant11	2437	-3.75	≤8.00	PASS
	Ant7	2437	-2.68	≤8.00	PASS
	Ant11	2462	-3.01	≤8.00	PASS
	Ant7	2462	-3.87	≤8.00	PASS
11G	Ant11	2412	-5.62	≤8.00	PASS
	Ant7	2412	-8.90	≤8.00	PASS
	Ant11	2437	-5.44	≤8.00	PASS
	Ant7	2437	-8.74	≤8.00	PASS
	Ant11	2462	-4.71	≤8.00	PASS
	Ant7	2462	-8.75	≤8.00	PASS
11N20SISO	Ant11	2412	-4.29	≤8.00	PASS
	Ant7	2412	-8.36	≤8.00	PASS
	Ant11	2437	-3.87	≤8.00	PASS
	Ant7	2437	-8.11	≤8.00	PASS
	Ant11	2462	-3.97	≤8.00	PASS
	Ant7	2462	-7.83	≤8.00	PASS
11N40SISO	Ant11	2422	-9.32	≤8.00	PASS
	Ant7	2422	-14.15	≤8.00	PASS
	Ant11	2437	-9.41	≤8.00	PASS
	Ant7	2437	-11.72	≤8.00	PASS
	Ant11	2452	-9.39	≤8.00	PASS
	Ant7	2452	-13.83	≤8.00	PASS
11AX20SISO	Ant11	2412	-6.45	≤8.00	PASS
	Ant7	2412	-11.57	≤8.00	PASS
	Ant11	2437	-6.65	≤8.00	PASS
	Ant7	2437	-9.54	≤8.00	PASS
	Ant11	2462	-5.76	≤8.00	PASS
	Ant7	2462	-10.27	≤8.00	PASS
11AX40SISO	Ant11	2422	-8.79	≤8.00	PASS
	Ant7	2422	-13.38	≤8.00	PASS
	Ant11	2437	-9.44	≤8.00	PASS
	Ant7	2437	-12.16	≤8.00	PASS
	Ant11	2452	-10.36	≤8.00	PASS
	Ant7	2452	-13.27	≤8.00	PASS