



FCC RF Test Report

APPLICANT : Motorola Mobility LLC
EQUIPMENT : Mobile Cellular Phone
BRAND NAME : Motorola
MODEL NAME : XT2619-1, XT2619-2, XT2619-3, XT2619V
FCC ID : IHDT56AT8
STANDARD : FCC Part 15 Subpart E §15.407
CLASSIFICATION : (NII) Unlicensed National Information Infrastructure
TEST DATE(S) : Oct. 21, 2025 ~ Oct. 27, 2025

We, Sporton International Inc. (Kunshan), 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. (Kunshan), 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
FR591602E	Rev. 01	Initial issue of report	Nov. 14, 2025



SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit for U-NII-1/2A/2C	Limit for U-NII-3	Result	Remark
3.1	2.1049 & 15.403(i)	6dB, 26dB & 99% Bandwidth	-	6dB Bandwidth > 500kHz	Pass	-
3.2	15.407(b)	Unwanted Emissions	15.407(b) & 15.209(a)	15.407(b)(4)(i) & 15.209(a)	Pass	Under limit 9.47 dB at 5467.92 MHz
3.3	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	15.203 & 15.407(a)	Pass	-

Note : This is a variant report, the change note could be referred to the XT2619-1, XT2619-2, XT2619-3, XT2619V_Operational Description of Product Equality Declaration which is exhibit separately. According to the differences, only the worse cases were verified from original test report (Sporton Report Number FR4O3003E).

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

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W,Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2619-1, XT2619-2, XT2619-3, XT2619V
FCC ID	IHDT56AT8
IMEI Code	Conducted: 350200180016273 Radiation: 350200180017271
HW Version	DVT2
SW Version	W2WD36.30
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The four models name XT2619-1, XT2619-2, XT2619-3, XT2619V are the same product except model name different for market segment.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Frequency Range	5180 MHz ~ 5240 MHz 5260 MHz ~ 5320 MHz 5500 MHz ~ 5720 MHz 5745 MHz ~ 5825 MHz
Antenna Type / Gain	<5180 MHz ~ 5250 MHz> <Ant. 8> : PIFA Antenna with gain -7.00 dBi <Ant. 5> : Monopole Antenna with gain -7.00 dBi <5260 MHz ~ 5320 MHz> <Ant. 8> : PIFA Antenna with gain -7.00 dBi <Ant. 5> : Monopole Antenna with gain -7.00 dBi <5500 MHz ~ 5720 MHz> <Ant. 8> : PIFA Antenna with gain -6.50 dBi <Ant. 5> : Monopole Antenna with gain -6.50 dBi <5745 MHz ~ 5825 MHz> <Ant. 8> : PIFA Antenna with gain -8.00 dBi <Ant. 5> : Monopole Antenna with gain -7.50 dBi
Type of Modulation	802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ac : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

Note: WLAN MIMO support CDD mode.

1.5 Modification of EUT

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

1.6 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH03-KS TH01-KS	CN1257	314309

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	Tonscend	JS1120-3 test system China_210602	3.3.10
2.	03CH03-KS	AUDIX	E3	210616

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 E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ 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.

1.9 Specification of Accessory

Accessories Information				
AC Adapter 1	Brand Name	Motorola(AOHAI)	Model Name	MC-201L
AC Adapter 2	Brand Name	Motorola(Chenyang)	Model Name	MC-201L
AC Adapter 3	Brand Name	Motorola(XIHI)	Model Name	MC-201L
Battery 1	Brand Name	Motorola(SUNWODA)	Model Name	SD52
Battery 2	Brand Name	Motorola(COSMX)	Model Name	SD52
USB Cable 1	Brand Name	LUXSHARE	Model Name	SC18E08103
USB Cable 2	Brand Name	Saibao	Model Name	SC18D86731
USB Cable 3	Brand Name	Saibao	Model Name	SC18D94161
Stylus 1	Brand Name	Maxeye	Model Name	SO28E92733 (Black) SO28E94204 (Pink)
Stylus 2	Brand Name	Sunwoda	Model Name	SO28E92734

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: 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 (Z plane) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5180-5240 MHz U-NII-1	36	5180	44	5220
	38*	5190	46*	5230
	40	5200	48	5240
	42 [#]	5210	50 ^{##}	5250
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5260-5320 MHz U-NII-2A	52	5260	60	5300
	54*	5270	62*	5310
	56	5280	64	5320
	58 [#]	5290	-	-
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5500-5720MHz U-NII-2C	100	5500	112	5560
	102*	5510	116	5580
	104	5520	132	5660
	106 [#]	5530	134*	5670
	108	5540	136	5680
	110*	5550	140	5700
Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155 [#]	5775	165	5825



Frequency Band	Channel	Freq.(MHz)	Channel	Freq. (MHz)
TDWR Channel	118*	5590	124	5620
	120	5600	126*	5630
	122 [#]	5610	128	5640
	-	-	114 ^{##}	5570

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
Straddle Channel	138 [#]	5690	144	5720
	142*	5710	-	-

Note:

1. The above Frequency and Channel in "*" are 40MHz bandwidth.
2. The above Frequency and Channel in "[#]" are 80MHz bandwidth.
3. The above Frequency and Channel in "^{##}" are 160MHz bandwidth.

2.2 Test Mode

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

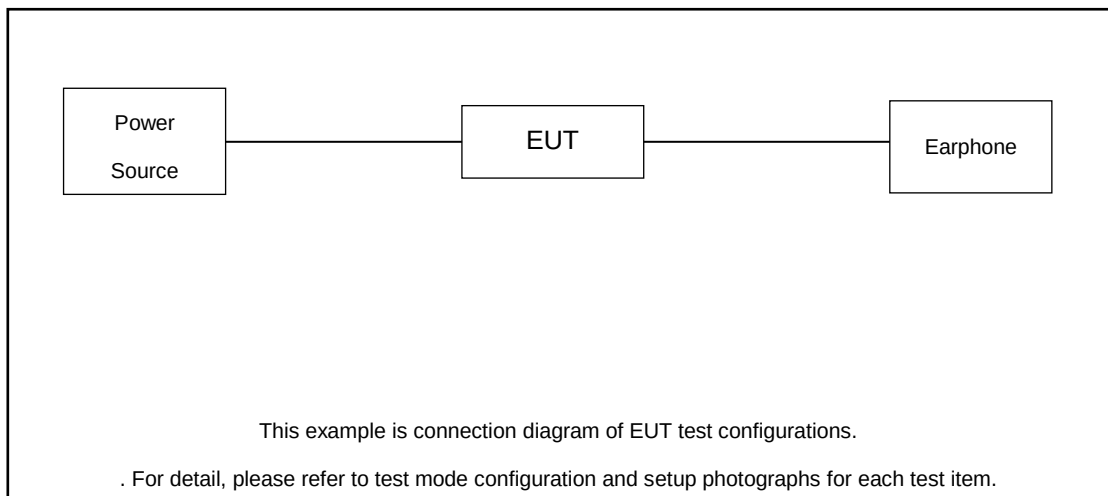
MIMO Mode

Modulation	Data Rate
802.11a	MCS0
802.11n HT20	MCS0
802.11ax HE20	MCS0

Remark: For Radiated Test Cases, The tests were performance with Adapter 1, Earphone and USB Cable 1.

Ch. #		U-NII-1	U-NII-2A	U-NII-2C	U-NII-3
		20M BW	20M BW	20M BW	20M BW
L	Low	36	52	100	149
M	Middle	44	60	116	157
H	High	48	64	140	165
Straddle		-	-	144	-

2.3 Connection Diagram of Test System



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	Earphone	N/A	N/A	N/A	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 continuously transmit.

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 6.2 dB and 20dB attenuator.

$$\begin{aligned} \text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)}. \\ &= 6.2 + 20 = 26.2 \text{ (dB)} \end{aligned}$$



3 Test Result

3.1 6dB and 26dB and 99% Occupied Bandwidth Measurement

3.1.1 Description of 6dB and 26dB and 99% Occupied Bandwidth

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

26dB and 99% Occupied bandwidth are reporting only.

3.1.2 Measuring Instruments

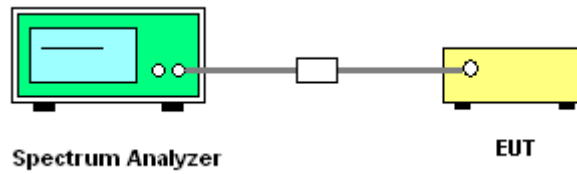
The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01 & ANSI C63.10-2020 clause 12.5.1 for 6dB BW and 12.5.2 for 26dB BW and 6.9.3 for 99% occupied bandwidth measurements.

☒	Section C) Bandwidth Measurement 1. Emission Bandwidth (EBW) and 99% OBW
	1. Set RBW = shall be in the range of 1% to 5% of the emission bandwidth. 2. Set the VBW > RBW. 3. Detector = Peak. 4. Trace mode = max hold 5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%. 6. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set to 1%~5% of the OBW and set the Video bandwidth (VBW) $\geq 3 * RBW$. 7. Measure and record the results in the test report.
☒	Section C) Bandwidth Measurement 2. Minimum Emission Bandwidth for the band 5.725 - 5.85 GHz
	1. Set RBW = 100 kHz. 2. Set the VBW $\geq 3 \times RBW$. 3. Detector = Peak. 4. Trace mode = max hold 5. Measure the maximum width of the emission that is 6 dB down from the peak of the emission. 6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 26dB and 99% Occupied Bandwidth

Please refer to Appendix A.

3.2 Unwanted Emissions Measurement

This section as specified in FCC Part 15.407(b) is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement. The unwanted emissions shall comply with 15.407(b)(1) to (6), and restricted bands per FCC Part 15.205.

3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5150-5250 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27dBm/MHz .

For transmitters operating in the 5250-5350 MHz band: all emissions outside of the 5150-5350 MHz band shall not exceed an EIRP of -27 dBm/MHz . Devices operating in the 5250-5350 MHz band that generate emissions in the 5150-5250 MHz band must meet all applicable technical requirements for operation in the 5150-5250 MHz band (including indoor use) or alternatively meet an out-of-band emission EIRP limit of -27 dBm/MHz in the 5150-5250 MHz band.

For transmitters operating in the 5470-5600 MHz and 5650-5725MHz band: all emissions outside of the 5470-5600 MHz and 5650-5725MHz band shall not exceed an EIRP of -27 dBm/MHz .

- (2) For transmitters operating in the 5.725-5.85 GHz band:
- 15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(3) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

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

EIRP (dBm)	Field Strength at 3m (dBμV/m)
- 27	68.2

Note: The following formula is used to convert the EIRP to field strength.

$$EIRP = E_{Meas} + 20\log (d_{Meas}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

E_{Meas} is the field strength of the emission at the measurement distance, in dBμV/m

d_{Meas} is the measurement distance, in m

3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

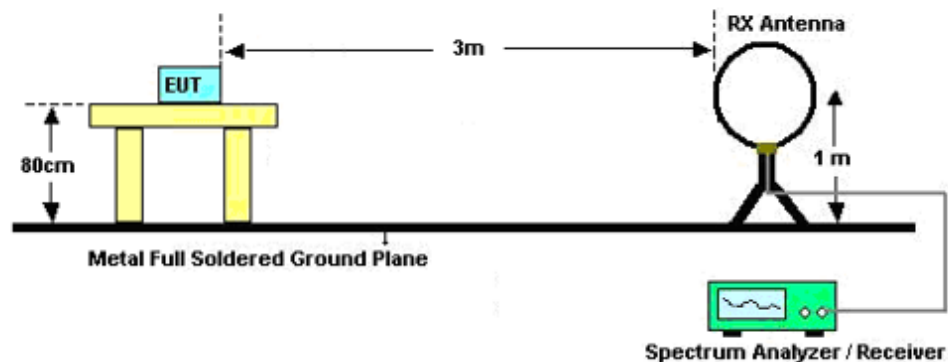
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold
 - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
 - RBW = 1 MHz
 - VBW $\geq$ 3 MHz
 - Detector = Peak
 - Sweep time = auto
 - Trace mode = max hold
 - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - 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.
 - (4) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
 - RBW = 1 MHz
 - VBW = 3 MHz
 - Detector = power averaging (rms), set span/(# of points in sweep) $\geq$ RBW/2.
 - Averaging type = power averaging(RMS)
 - The correction factor shall be offset is 10 log (1/x), where x is the duty cycle.
2. 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.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
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.

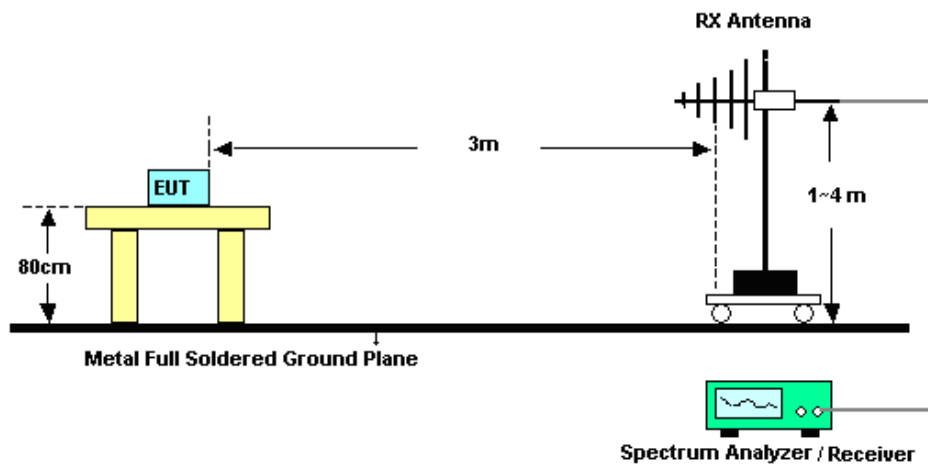
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

3.2.4 Test Setup

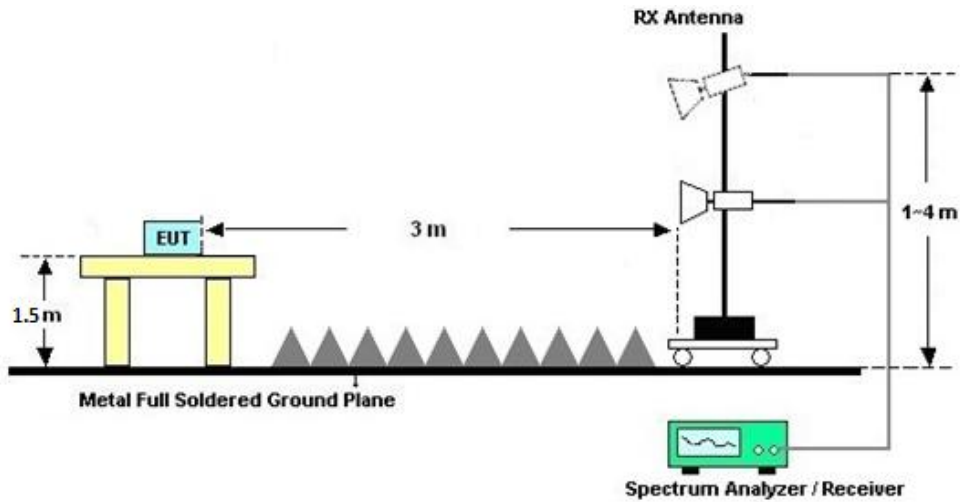
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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

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.

3.2.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix B.

3.2.7 Duty Cycle

Please refer to Appendix C.

3.2.8 Test Result of Radiated Spurious Emissions (30MHz ~ 10th Harmonic)

Please refer to Appendix B.

3.3 Antenna Requirements

3.3.1 Standard Applicable

According to FCC 47 CFR Section 15.407(a)(1)(2) ,if transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.3.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.3.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = GANT + Array Gain, where Array Gain is as follows.

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

Array Gain = 10 log(NANT/NSS=1) dB.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4.

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

The EUT supports CDD mode.

For power, the directional gain GANT 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	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 8	Ant. 5	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
UNII-1	-7.00	-7.00	-7.00	-3.99	0.00	0.00
UNII-2A	-7.00	-7.00	-7.00	-3.99	0.00	0.00
UNII-2C	-6.50	-6.50	-6.50	-3.49	0.00	0.00
UNII-3	-8.00	-7.50	-7.50	-4.74	0.00	0.00

Power limit reduction = Composite gain – 6dBi, (min = 0)

PSD limit reduction = Composite gain + PSD Array gain – 6dBi, (min = 0)



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY56400004	3Hz~8.5GHz;Ma x 30dBm	Oct. 10, 2025	Oct. 21, 2025	Oct. 09, 2026	Radiation (03CH03-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150244	10Hz~44GHz	Apr. 18, 2025	Oct. 21, 2025	Apr. 17, 2026	Radiation (03CH03-KS)
Active loop antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Aug. 10, 2025	Oct. 21, 2025	Aug. 09, 2026	Radiation (03CH03-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz~1GHz	Nov. 23, 2024	Oct. 21, 2025	Nov. 22, 2025	Radiation (03CH03-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251982	1GHz~18GHz	Aug. 22, 2025	Oct. 21, 2025	Aug. 21, 2026	Radiation (03CH03-KS)
SHF-EHF Horn	com-power	AH-840	101116	18GHz~40GHz	Oct. 18, 2025	Oct. 21, 2025	Oct. 17, 2026	Radiation (03CH03-KS)
Amplifier	SONOMA	310N	380826	9KHz~1GHz	Jul. 02, 2025	Oct. 21, 2025	Jul. 01, 2026	Radiation (03CH03-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 02, 2025	Oct. 21, 2025	Jan. 01, 2026	Radiation (03CH03-KS)
high gain Amplifier	EM	EM01G18GA	060834	1Ghz~18Ghz	Dec. 02, 2024	Oct. 21, 2025	Dec. 01, 2025	Radiation (03CH03-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz~18Ghz	Jan. 02, 2025	Oct. 21, 2025	Jan. 01, 2026	Radiation (03CH03-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Oct. 21, 2025	NCR	Radiation (03CH03-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Oct. 21, 2025	NCR	Radiation (03CH03-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Oct. 21, 2025	NCR	Radiation (03CH03-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Jul. 07, 2025	Oct. 27, 2025	Jul. 06, 2026	Conducted (TH01-KS)
Pulse Power Sensor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Oct. 27, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Oct. 27, 2025	Jan. 01, 2026	Conducted (TH01-KS)

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 Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	3.30 dB
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.20 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.88 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.32 dB
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----- THE END -----



Appendix A. Conducted Test Results



Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26dB EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A-CDD	Ant8	5180	20.53	5169.69	5190.22	---	---
	Ant5	5180	20.01	5169.88	5189.89	---	---
	Ant8	5220	20.68	5209.54	5230.22	---	---
	Ant5	5220	20.06	5209.78	5229.84	---	---
	Ant8	5240	20.53	5229.78	5250.31	---	---
	Ant5	5240	20.20	5229.83	5250.03	---	---
	Ant8	5260	20.63	5249.54	5270.17	---	---
	Ant5	5260	20.20	5249.78	5269.98	---	---
	Ant8	5300	20.53	5289.64	5310.17	---	---
	Ant5	5300	20.20	5289.83	5310.03	---	---
	Ant8	5320	20.34	5309.88	5330.22	---	---
	Ant5	5320	19.96	5309.88	5329.84	---	---
	Ant8	5500	20.30	5489.73	5510.03	---	---
	Ant5	5500	20.20	5489.64	5509.84	---	---
	Ant8	5580	20.63	5569.64	5590.27	---	---
	Ant5	5580	20.11	5569.97	5590.08	---	---
	Ant8	5700	20.30	5689.83	5710.12	---	---
	Ant5	5700	19.91	5689.88	5709.79	---	---
	Ant8	5720	20.39	5709.73	5730.12	---	---
	Ant5	5720	19.72	5710.02	5729.74	---	---
	Ant8	5745	20.30	5734.92	5755.22	---	---
	Ant5	5745	19.82	5735.11	5754.93	---	---
	Ant8	5785	20.20	5774.83	5795.03	---	---
	Ant5	5785	19.96	5774.88	5794.84	---	---
	Ant8	5825	20.63	5814.69	5835.31	---	---
	Ant5	5825	19.96	5815.07	5835.03	---	---
11N20MIMO	Ant8	5180	21.34	5169.40	5190.74	---	---
	Ant5	5180	21.49	5169.30	5190.79	---	---
	Ant8	5220	22.01	5208.92	5230.93	---	---
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	Ant8	5240	21.34	5229.45	5250.79	---	---



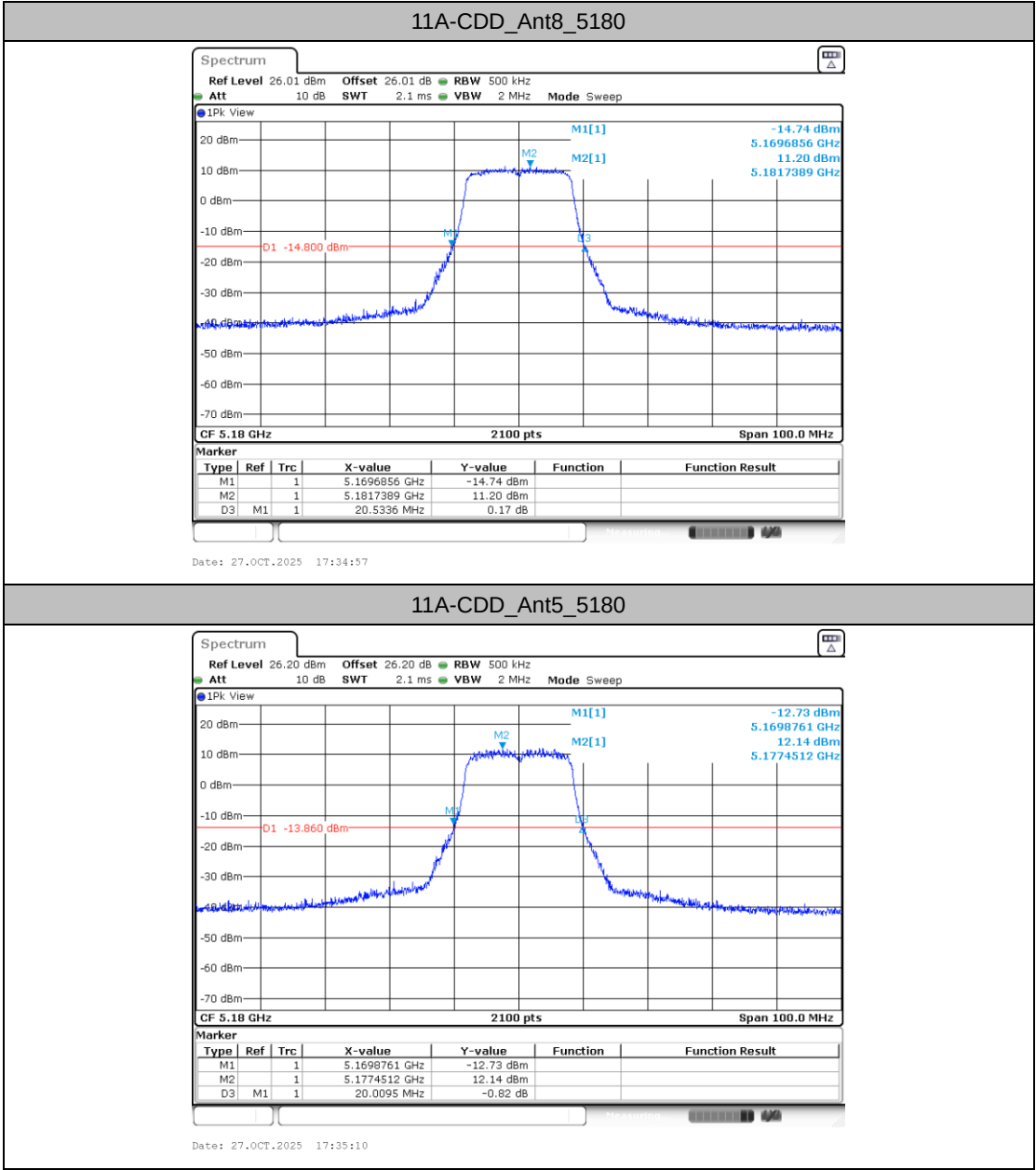
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	Ant5	5300	21.34	5289.30	5310.65	---	---
	Ant8	5320	21.92	5309.07	5330.98	---	---
	Ant5	5320	21.49	5309.26	5330.74	---	---
	Ant8	5500	21.58	5489.30	5510.89	---	---
	Ant5	5500	21.25	5489.35	5510.60	---	---
	Ant8	5580	21.73	5569.26	5590.98	---	---
	Ant5	5580	21.30	5569.50	5590.79	---	---
	Ant8	5700	21.25	5689.35	5710.60	---	---
	Ant5	5700	21.34	5689.30	5710.65	---	---
	Ant8	5720	21.58	5709.40	5730.98	---	---
	Ant5	5720	21.68	5709.30	5730.98	---	---
	Ant8	5745	21.82	5734.02	5755.84	---	---
	Ant5	5745	21.34	5734.40	5755.74	---	---
	Ant8	5785	21.68	5774.07	5795.74	---	---
	Ant5	5785	21.15	5774.30	5795.46	---	---
	Ant8	5825	21.39	5814.35	5835.74	---	---
	Ant5	5825	21.49	5814.35	5835.84	---	---
11AX20MIMO	Ant8	5180	21.96	5169.11	5191.08	---	---
	Ant5	5180	21.68	5169.11	5190.79	---	---
	Ant8	5220	22.11	5208.92	5231.03	---	---
	Ant5	5220	21.82	5209.11	5230.93	---	---
	Ant8	5240	21.73	5229.30	5251.03	---	---
	Ant5	5240	21.63	5229.21	5250.84	---	---
	Ant8	5260	21.53	5249.26	5270.79	---	---
	Ant5	5260	21.87	5248.97	5270.84	---	---
	Ant8	5300	21.63	5289.21	5310.84	---	---
	Ant5	5300	21.73	5289.07	5310.79	---	---
	Ant8	5320	21.68	5309.07	5330.74	---	---
	Ant5	5320	21.58	5309.16	5330.74	---	---
	Ant8	5500	21.73	5489.16	5510.89	---	---
	Ant5	5500	21.44	5489.35	5510.79	---	---
	Ant8	5580	21.63	5569.16	5590.79	---	---
	Ant5	5580	21.58	5569.16	5590.74	---	---
	Ant8	5700	21.49	5689.30	5710.79	---	---

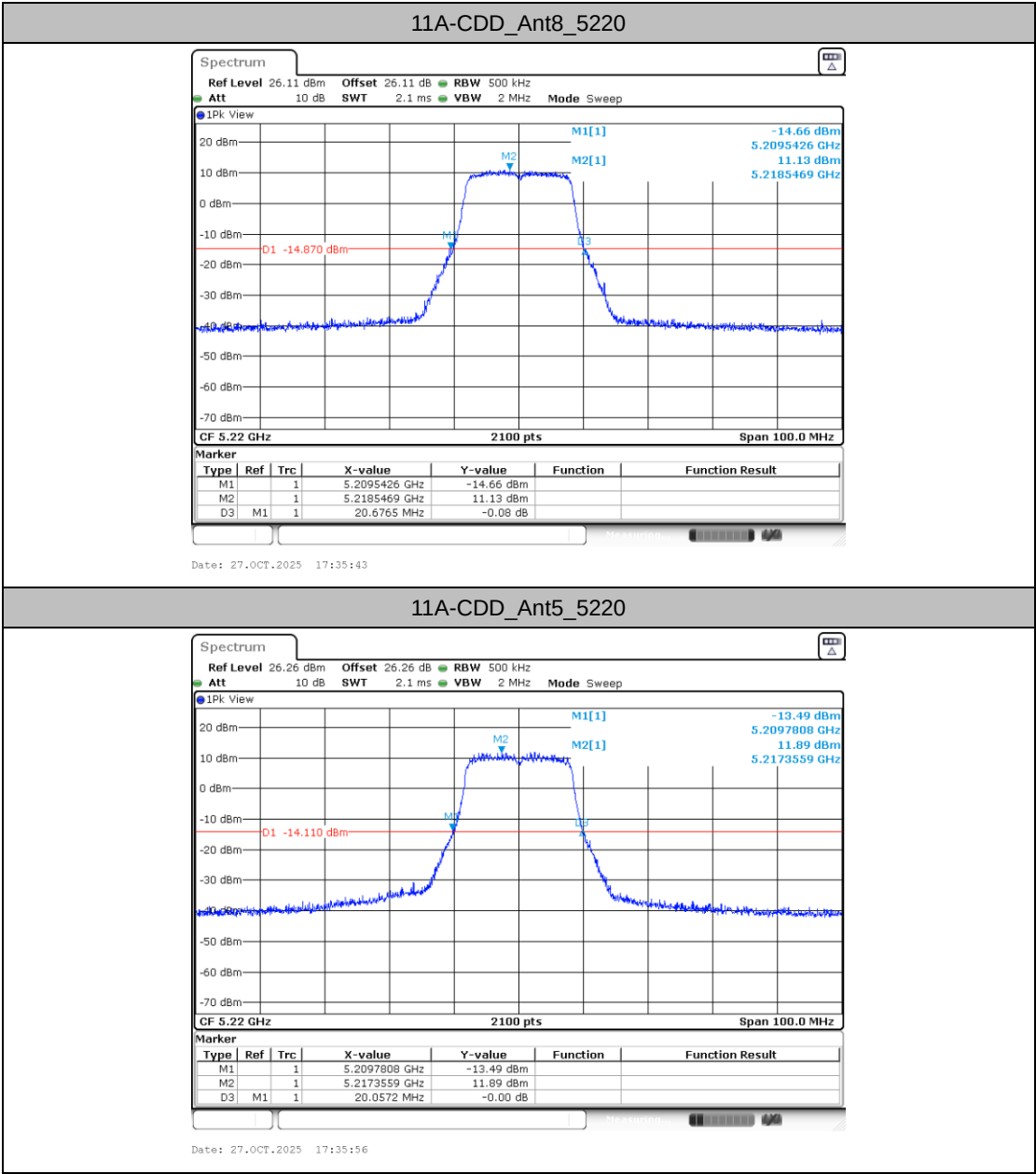


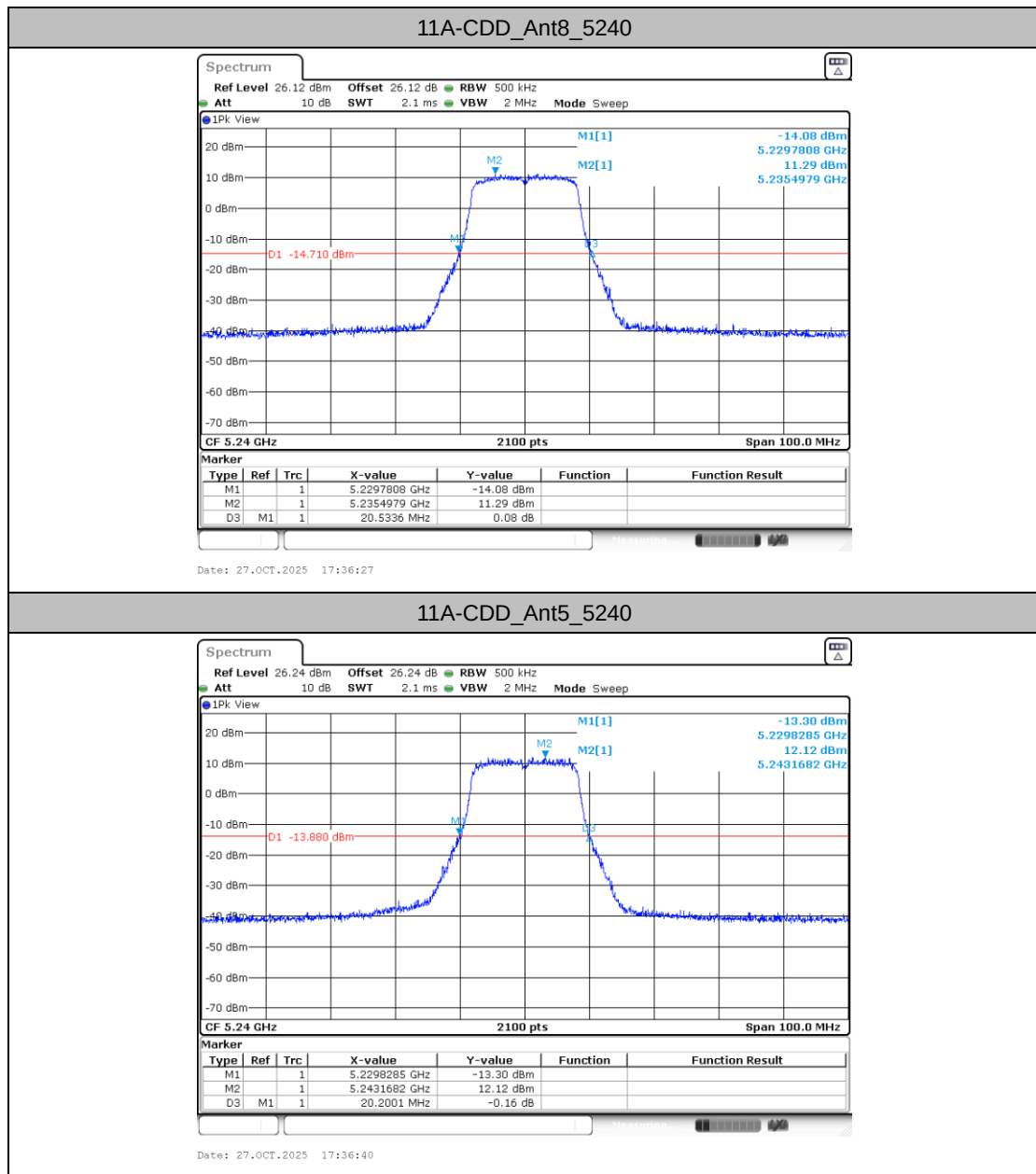
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	Ant8	5745	21.82	5734.21	5756.03	---	---
	Ant5	5745	21.49	5734.26	5755.74	---	---
	Ant8	5785	21.68	5774.26	5795.93	---	---
	Ant5	5785	21.63	5774.11	5795.74	---	---
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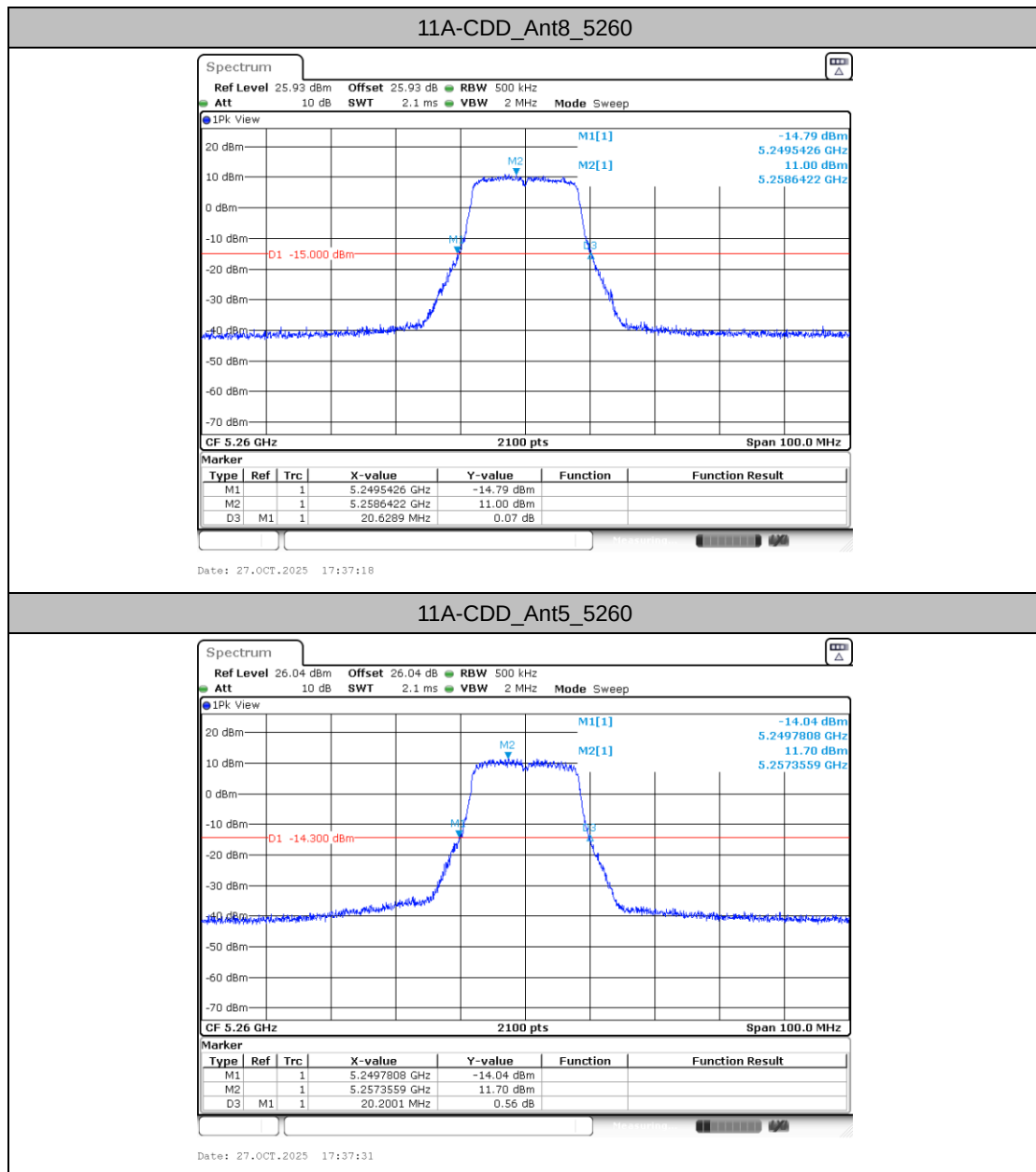


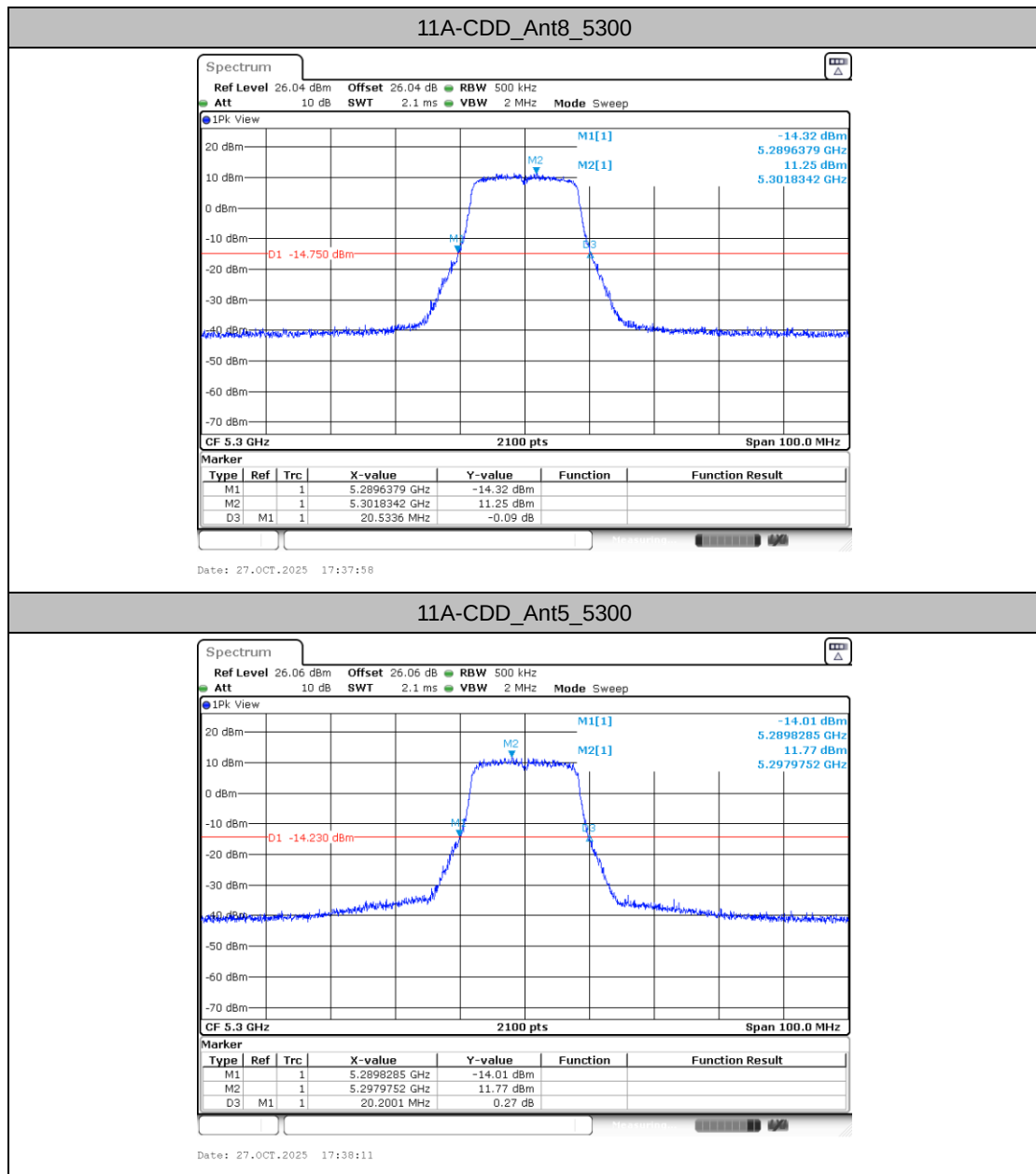
Test Graphs

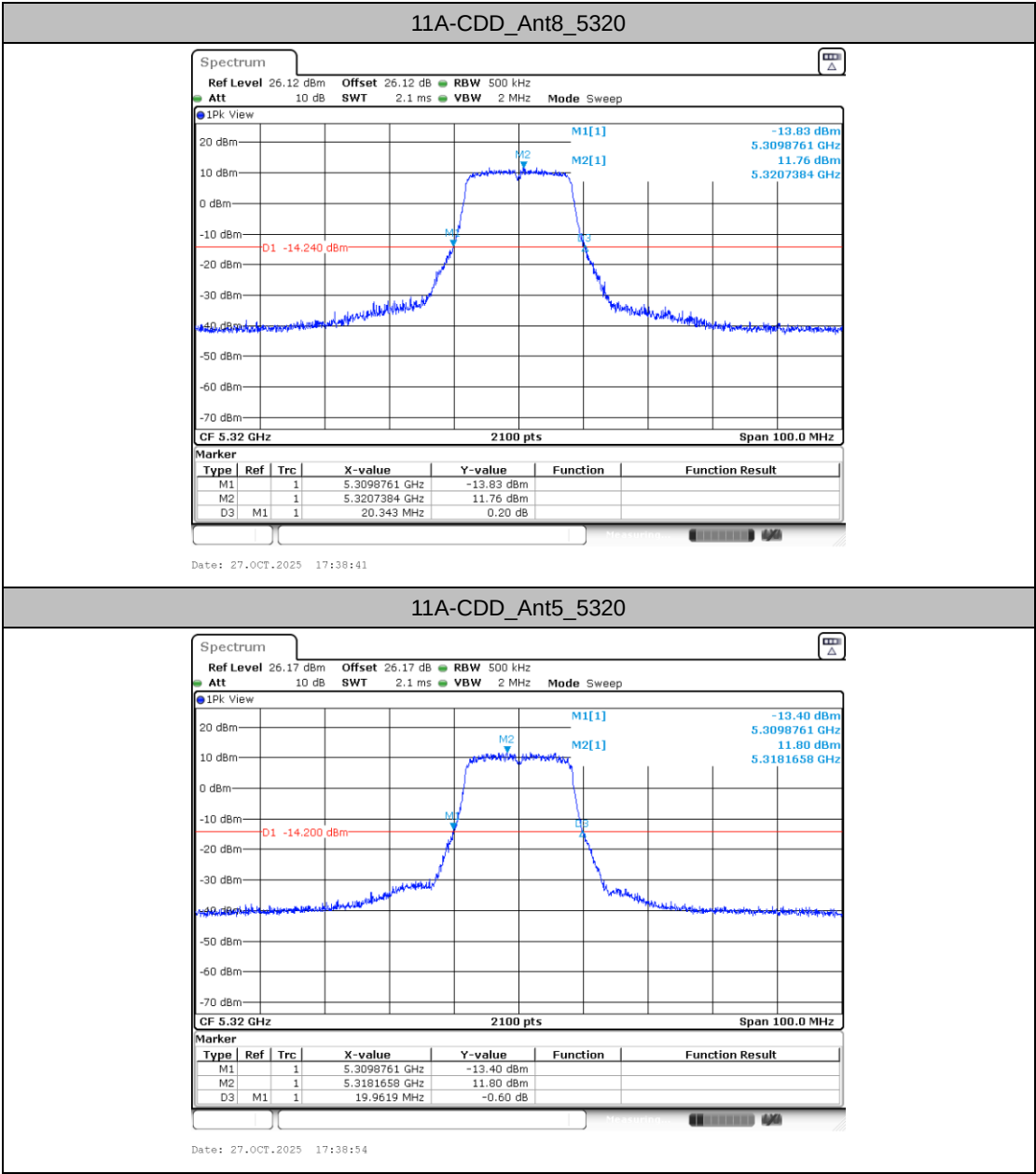


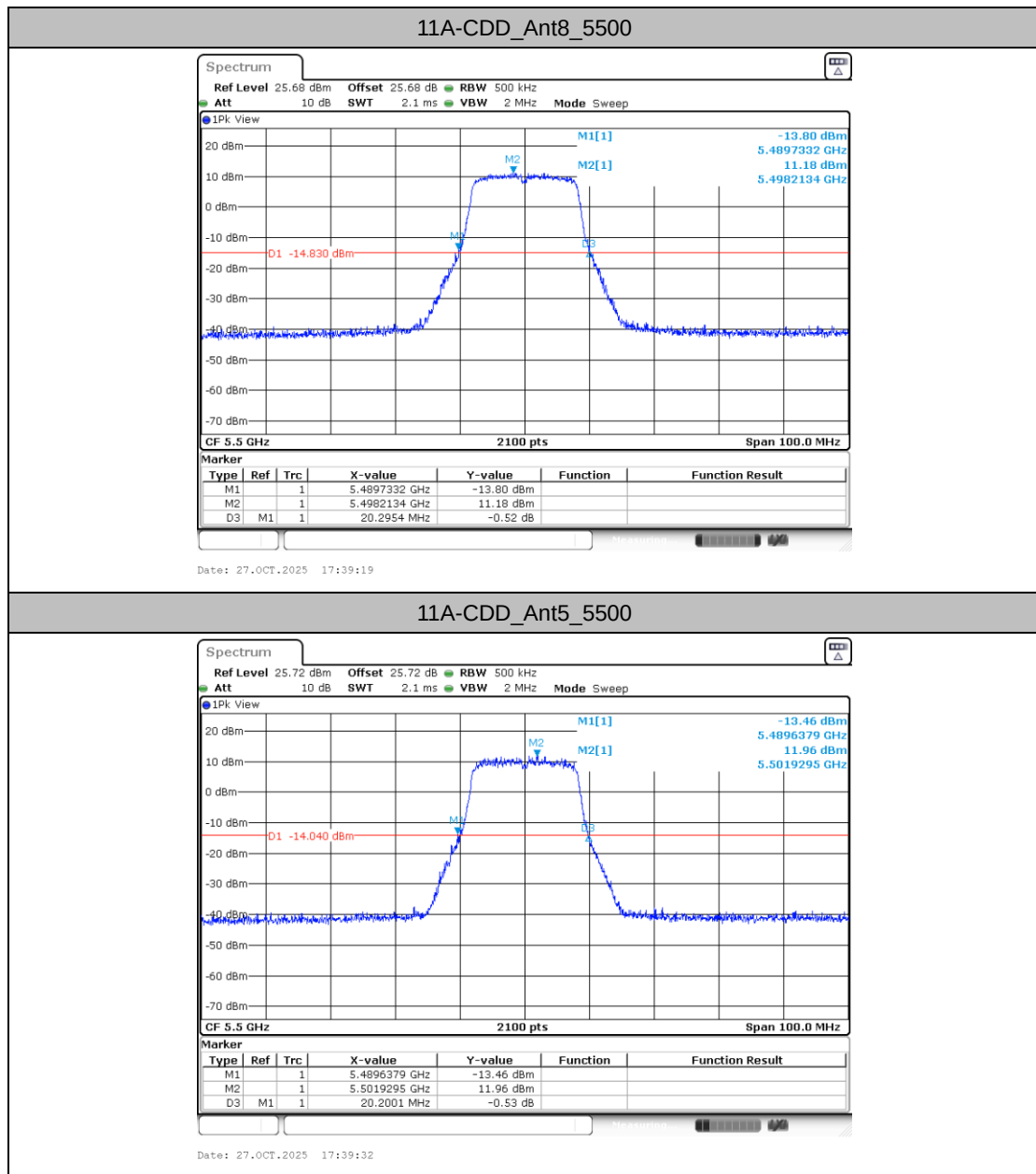


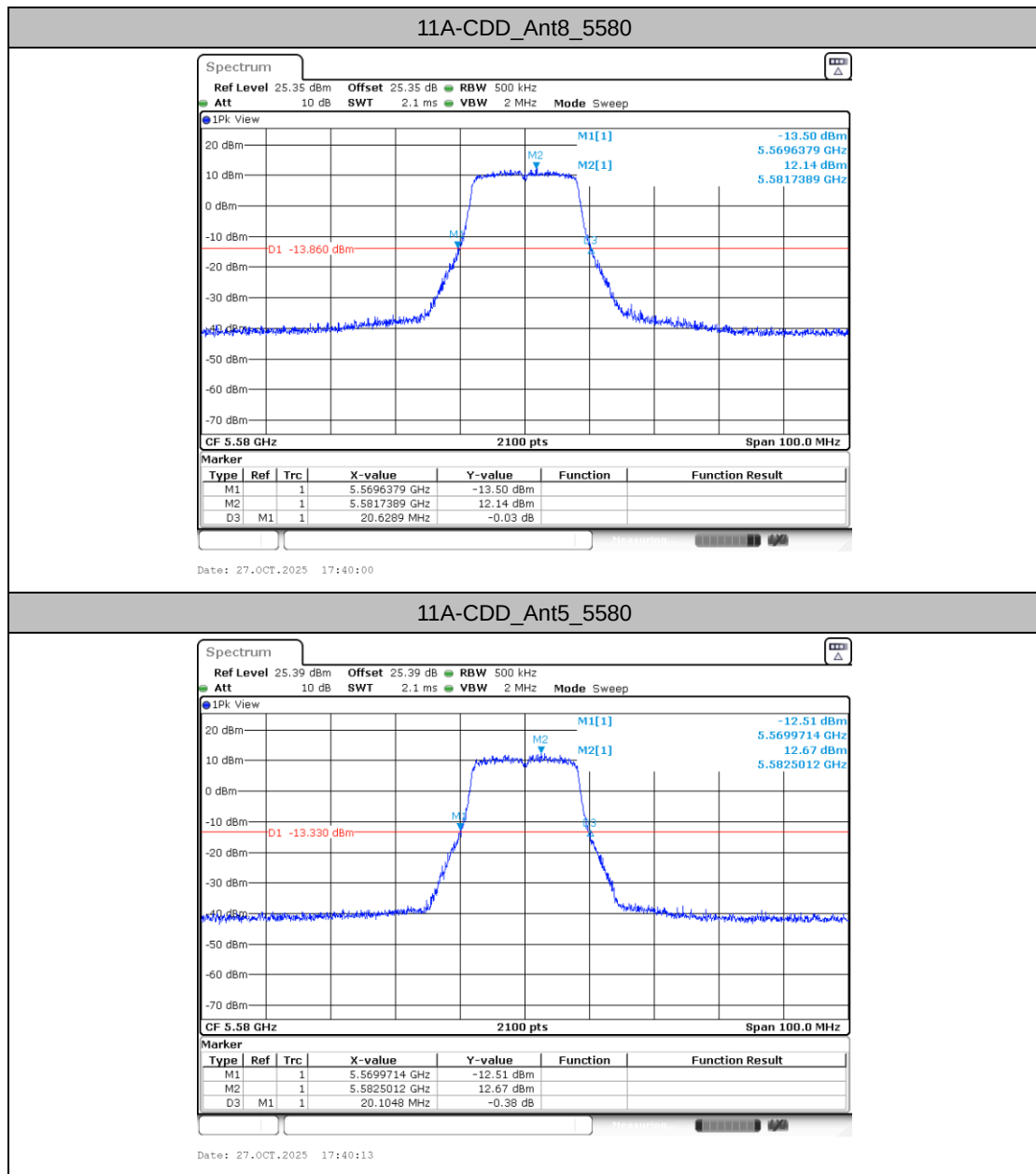


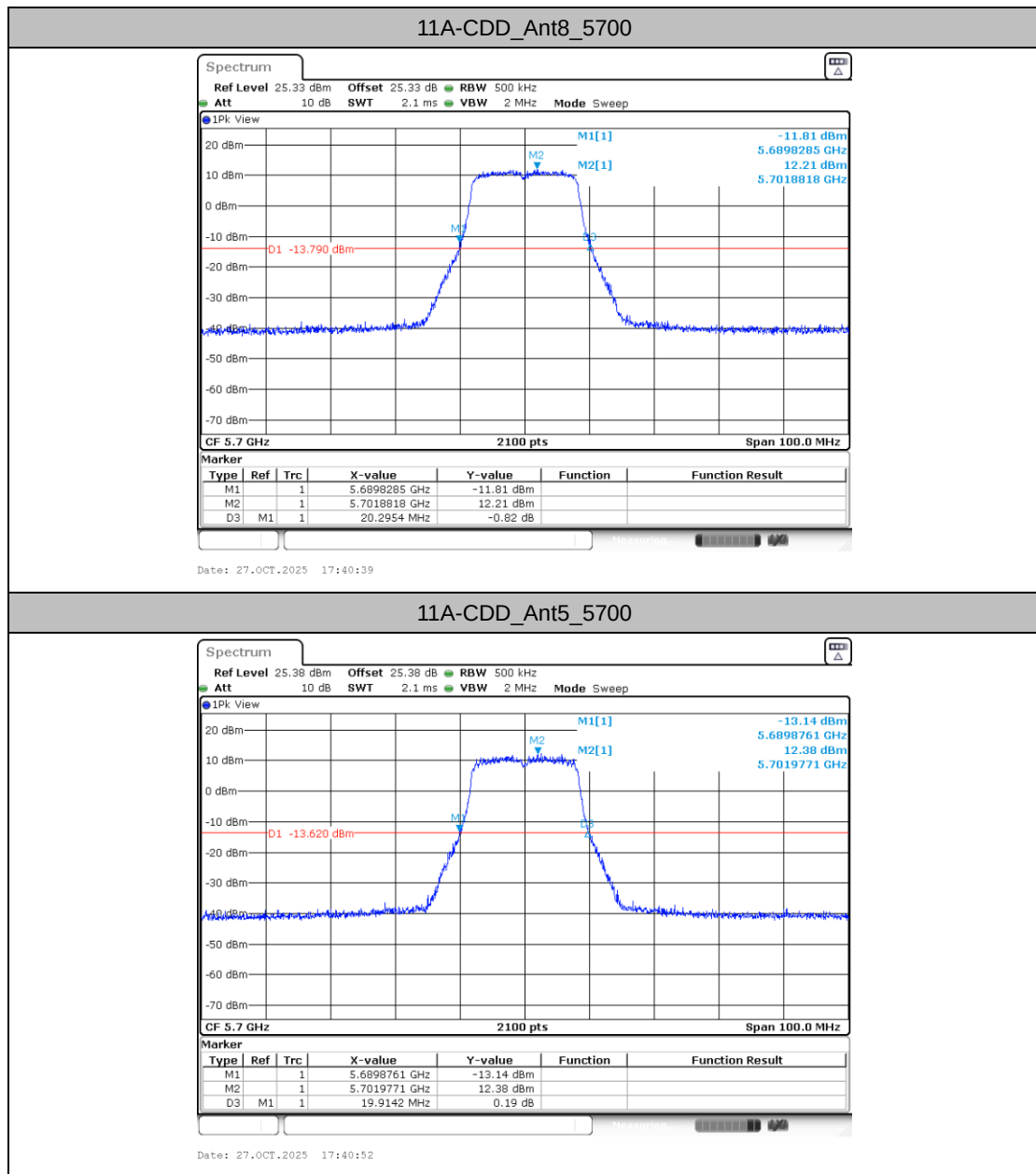


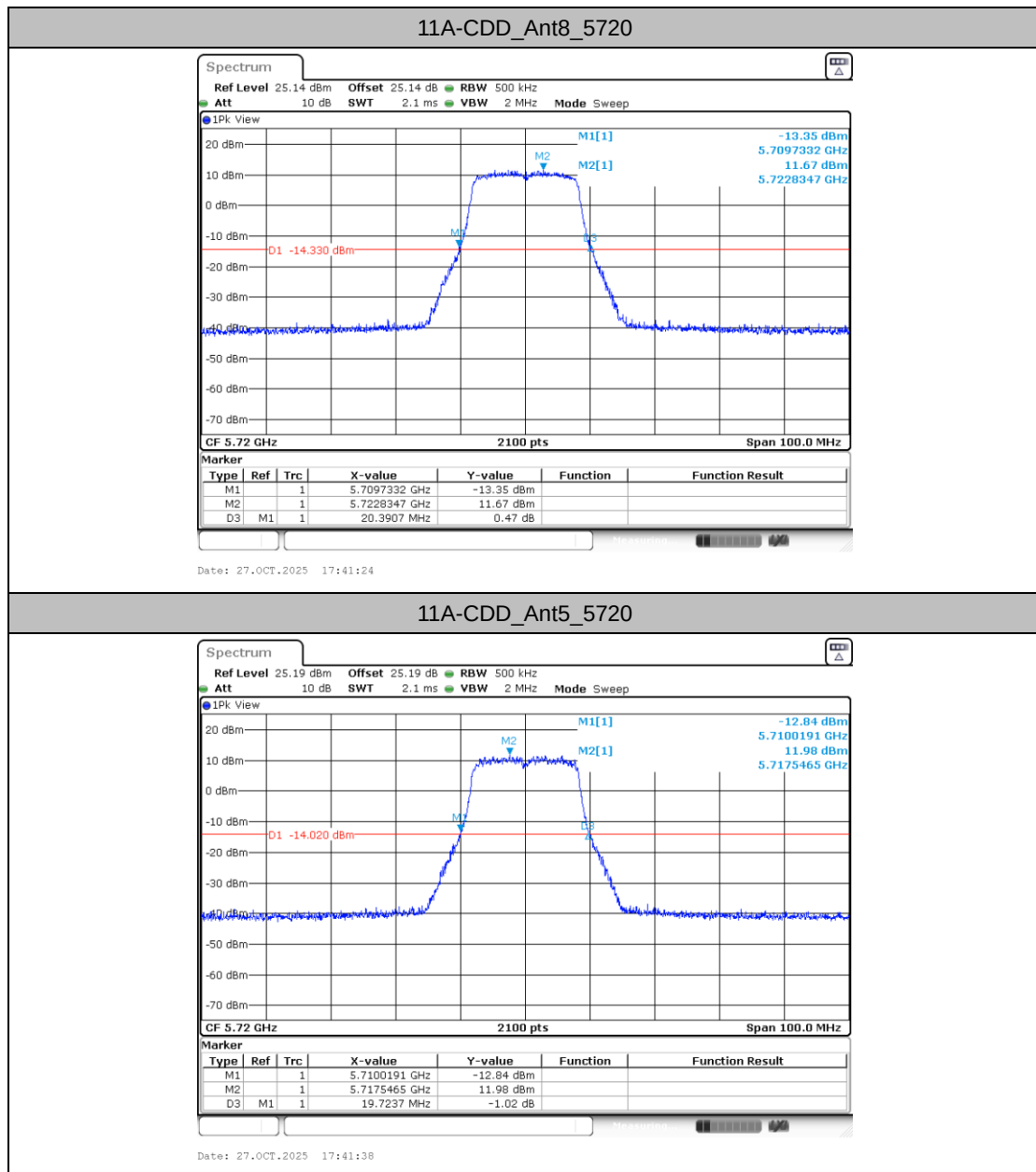


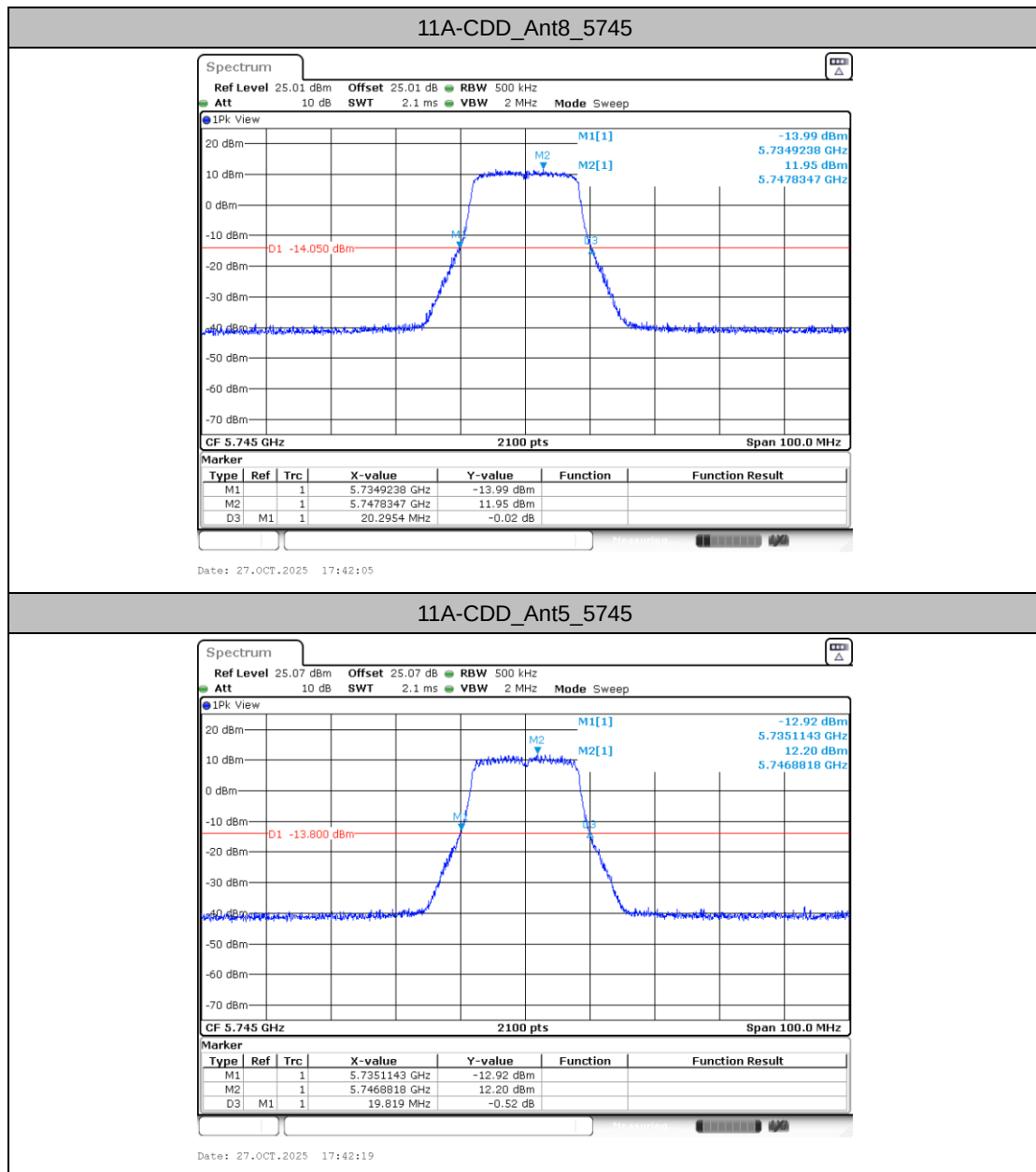


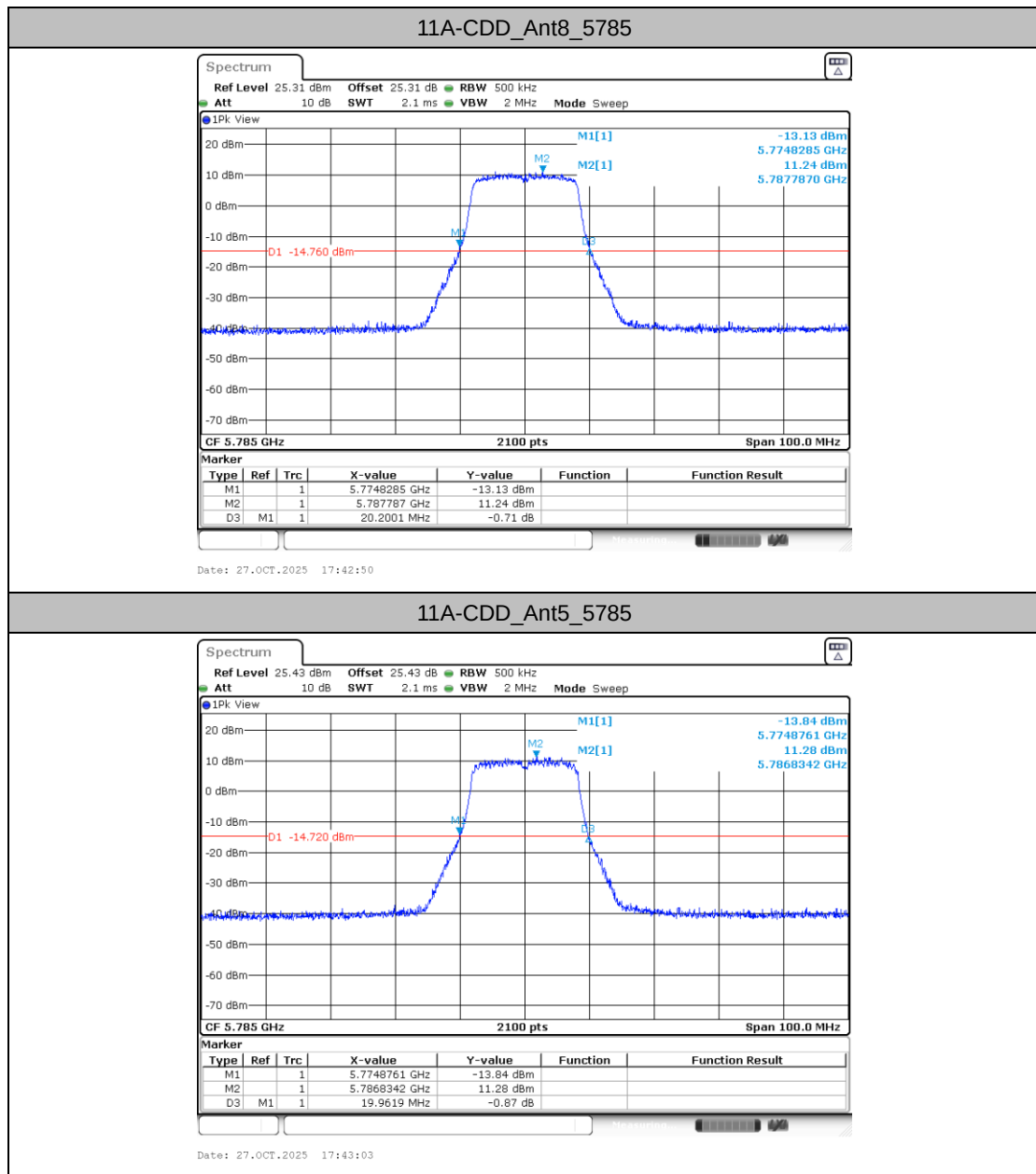






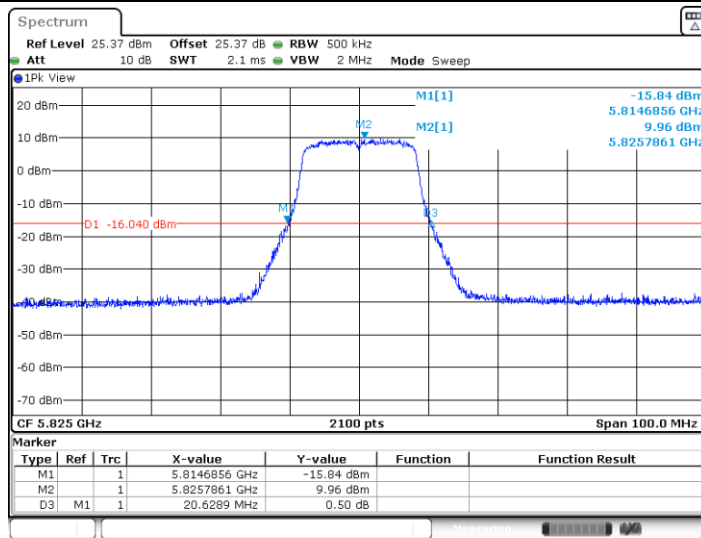




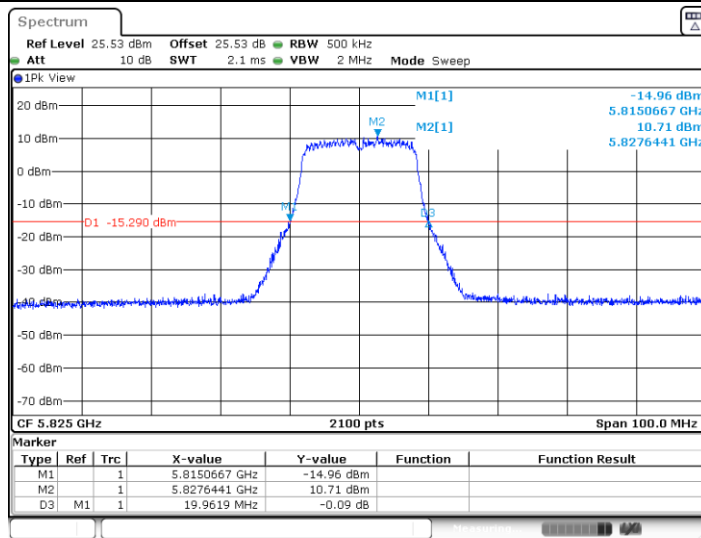


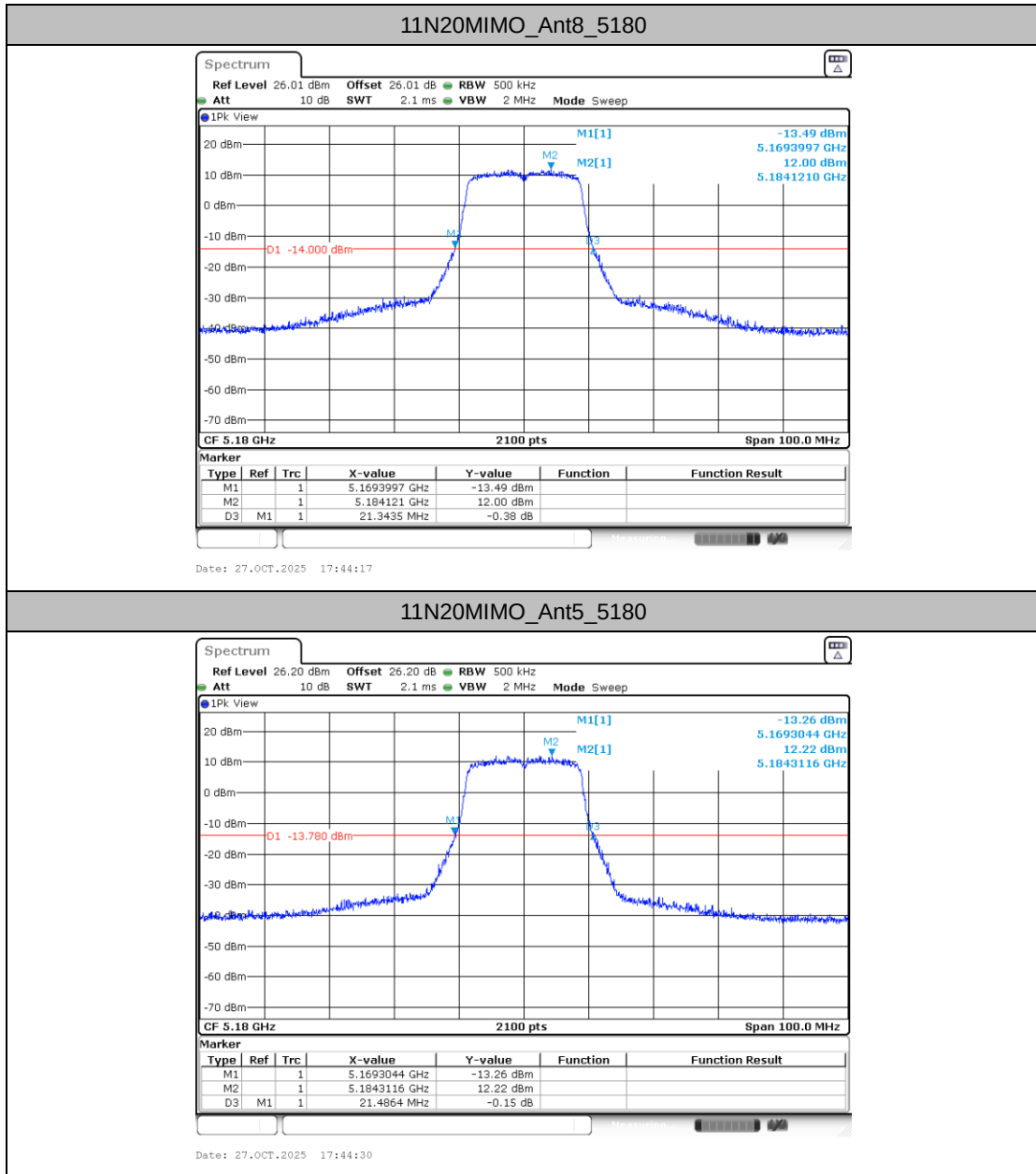


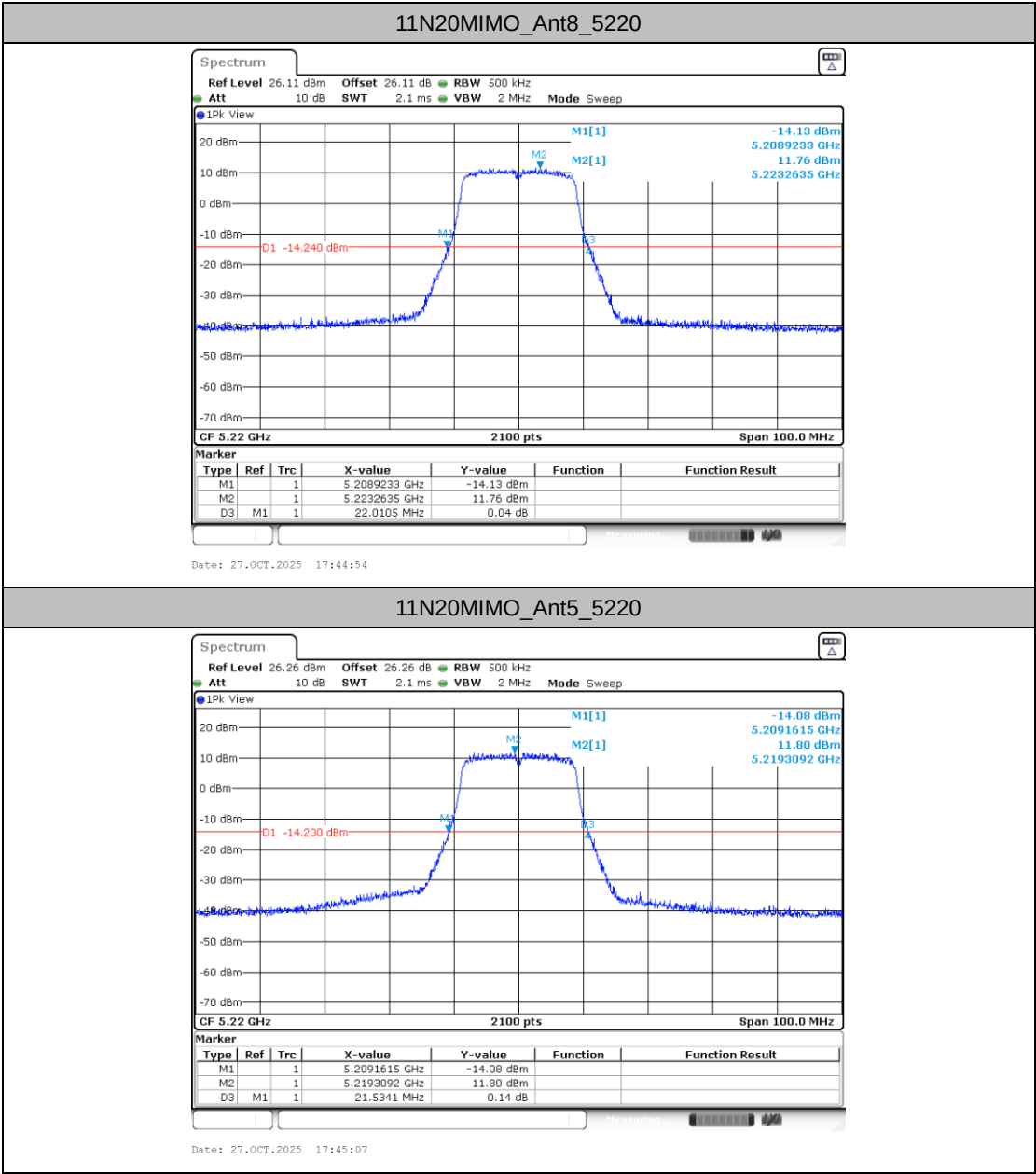
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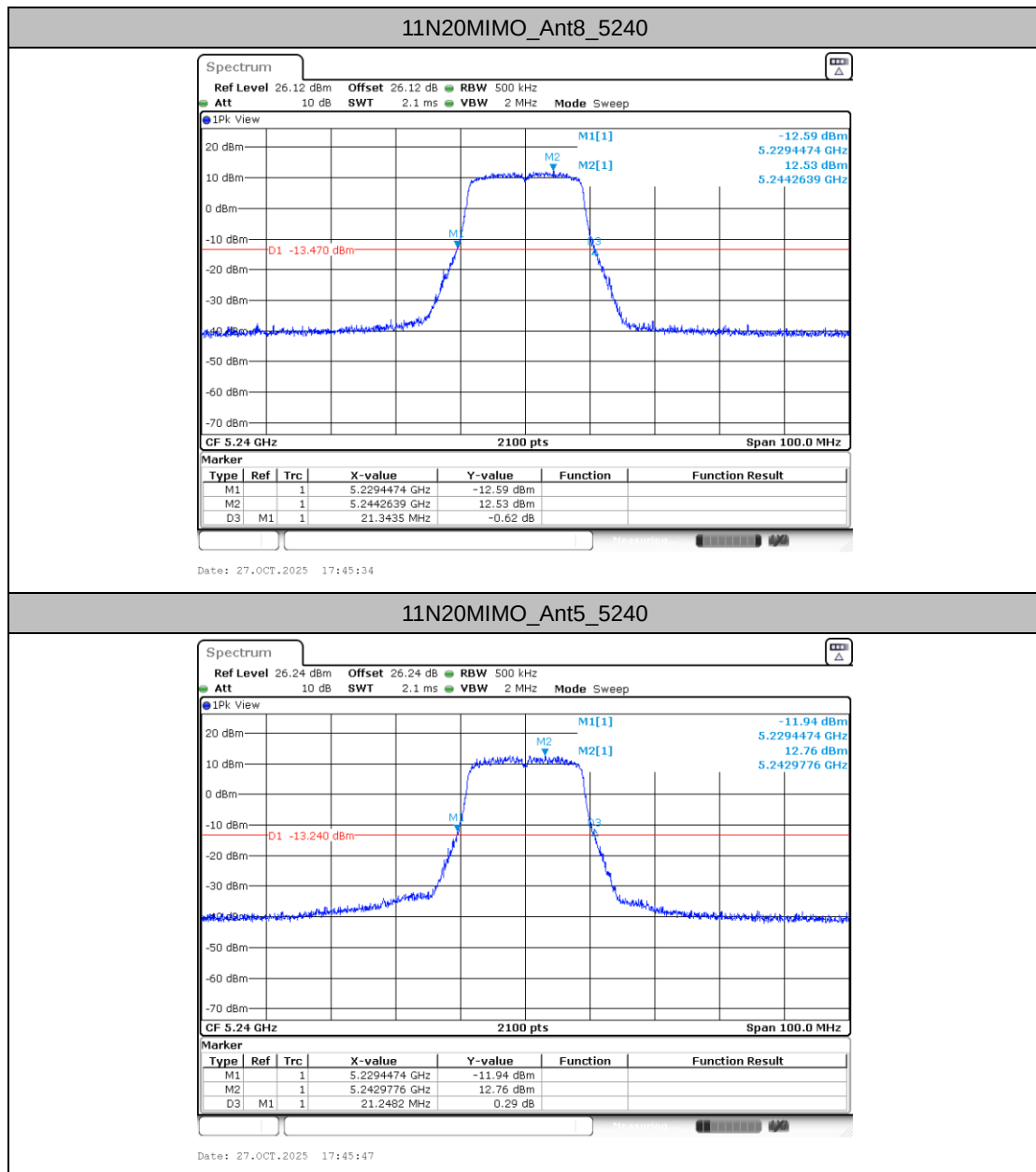


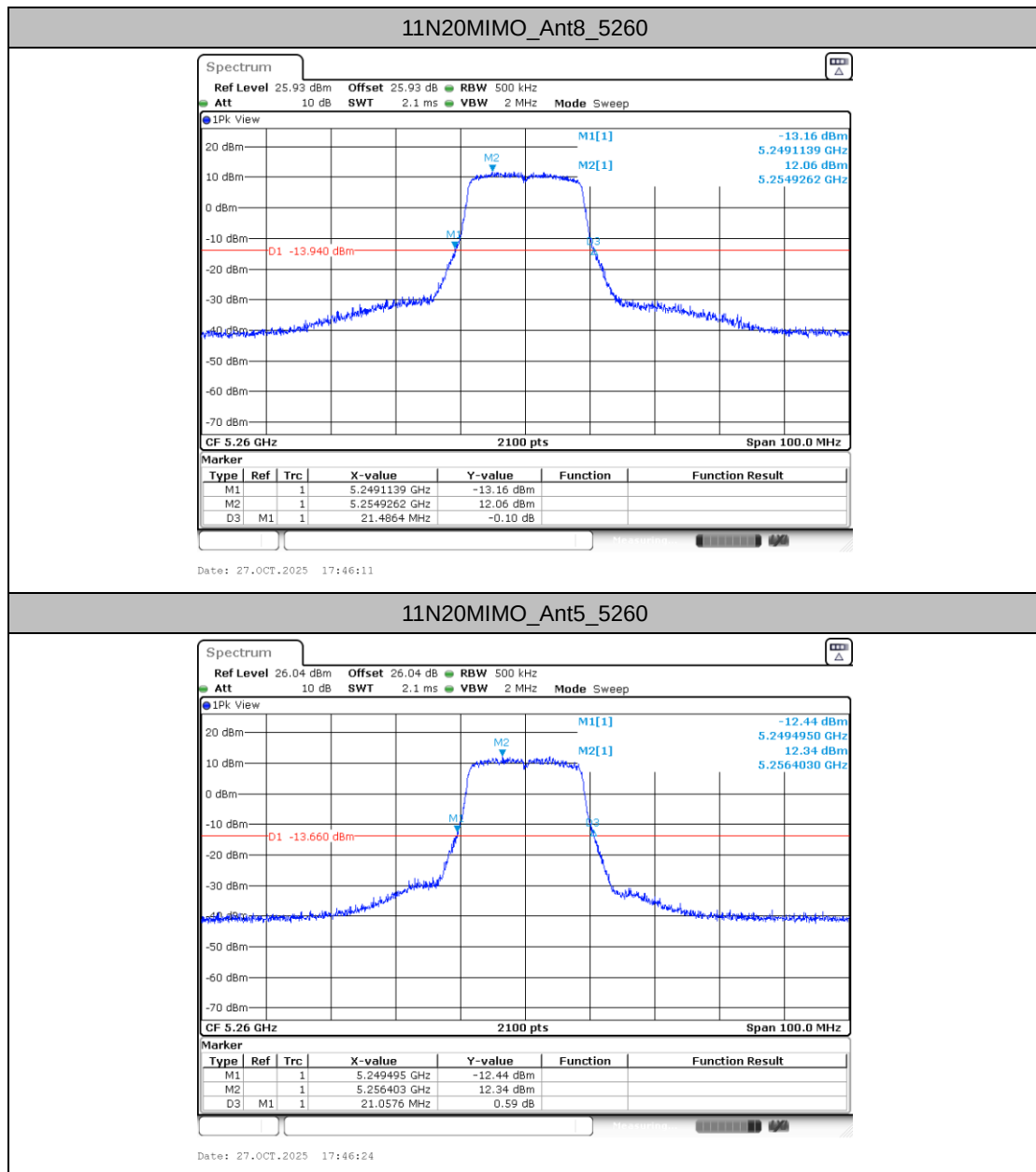
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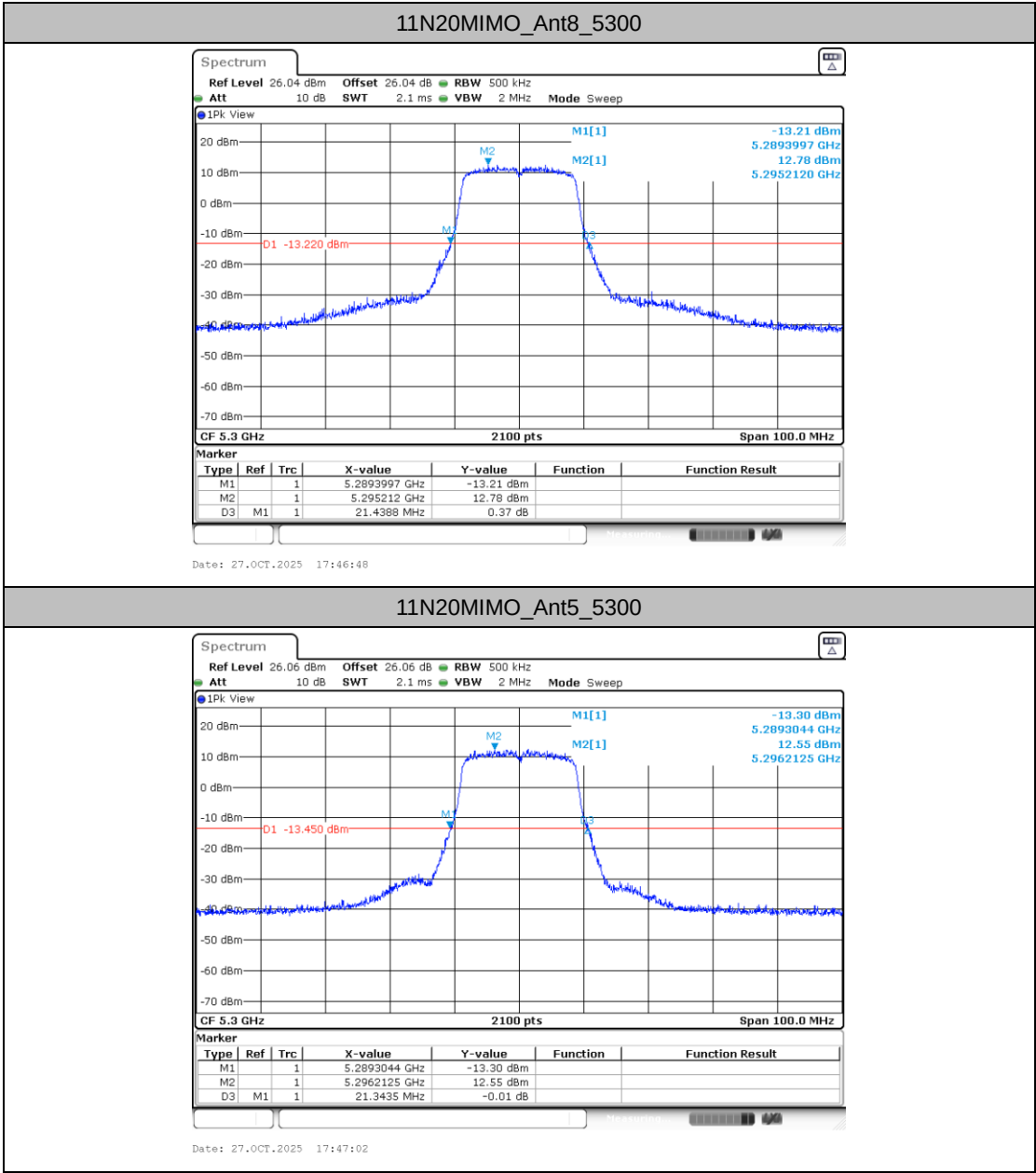


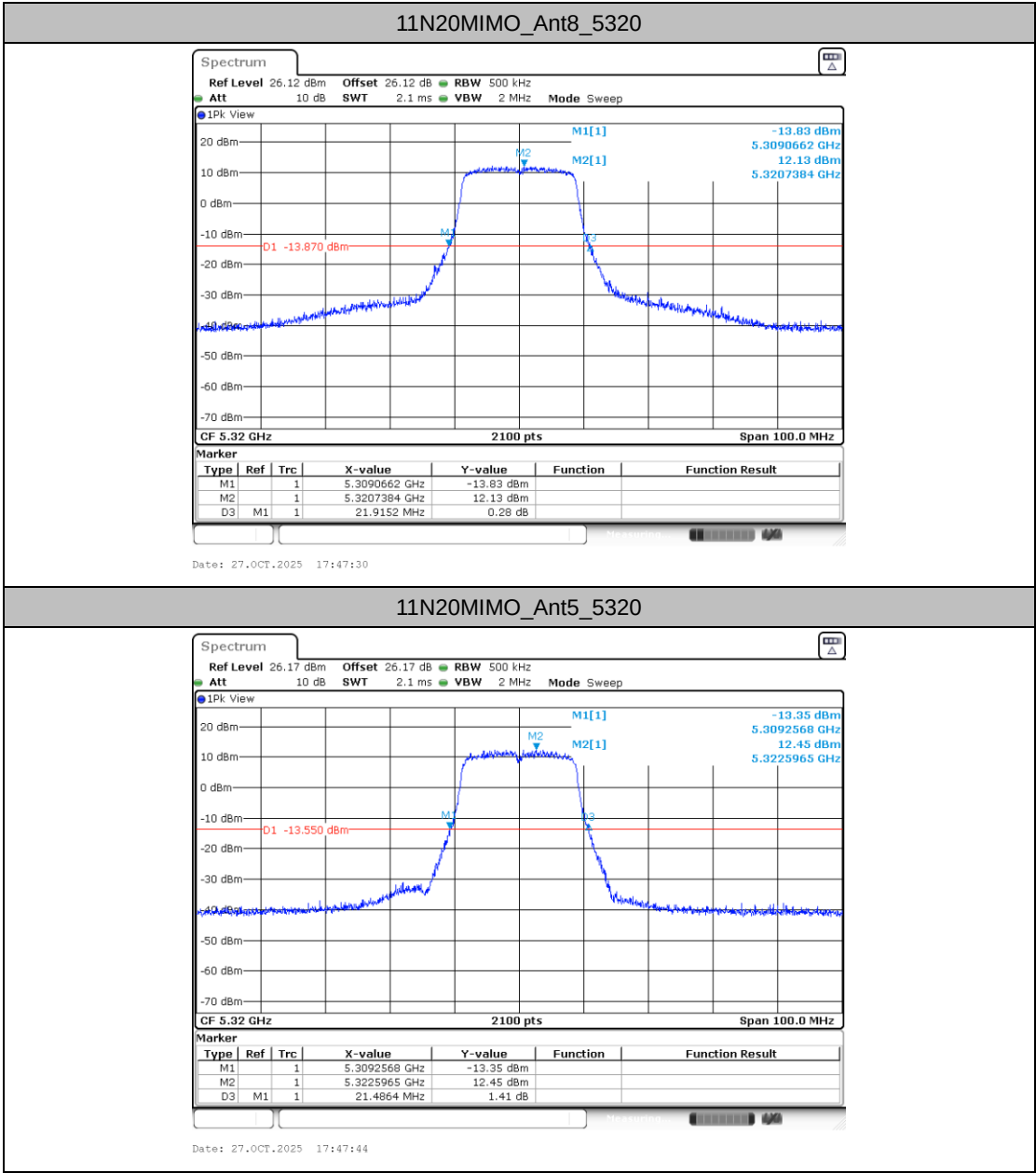


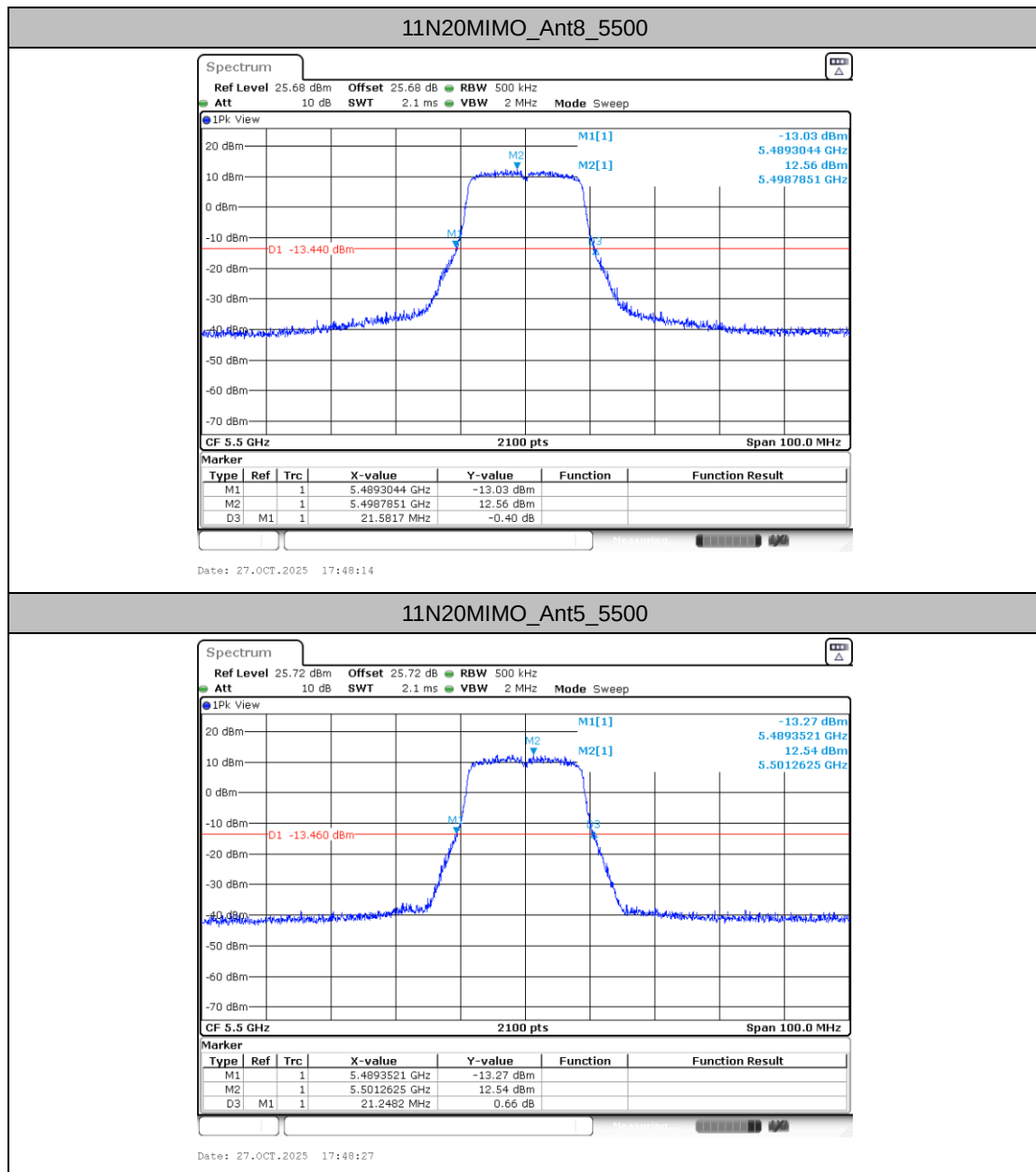


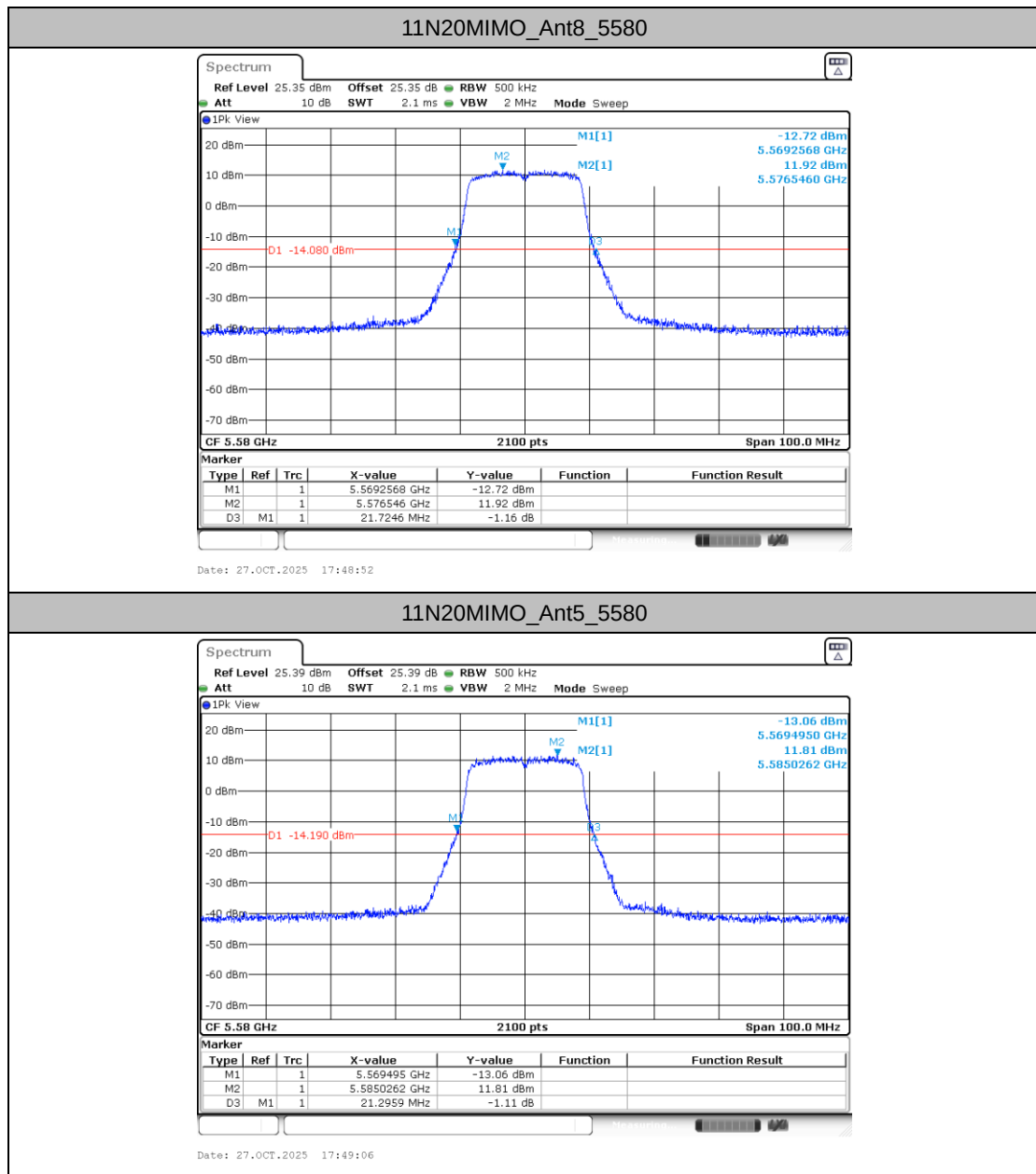


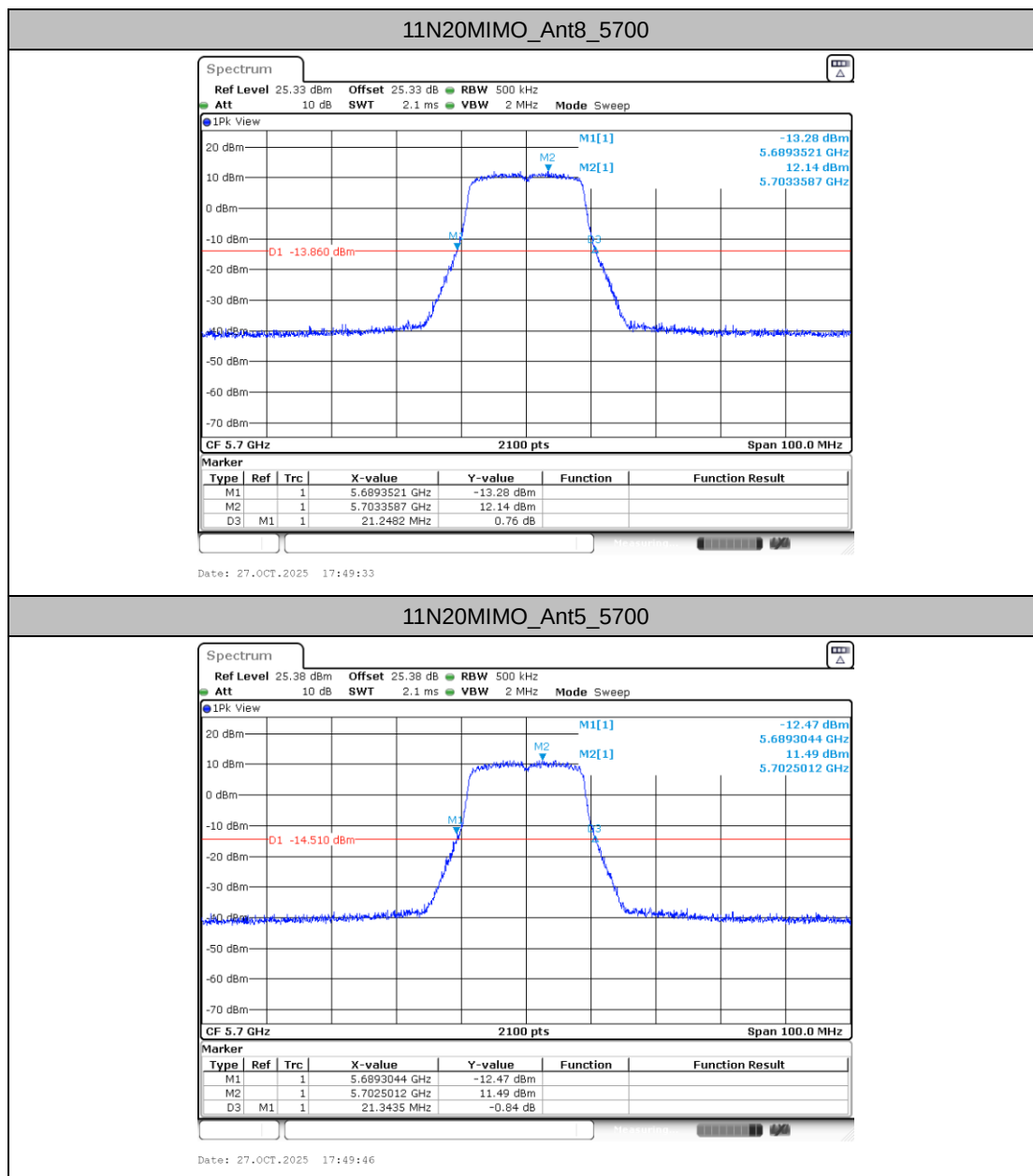


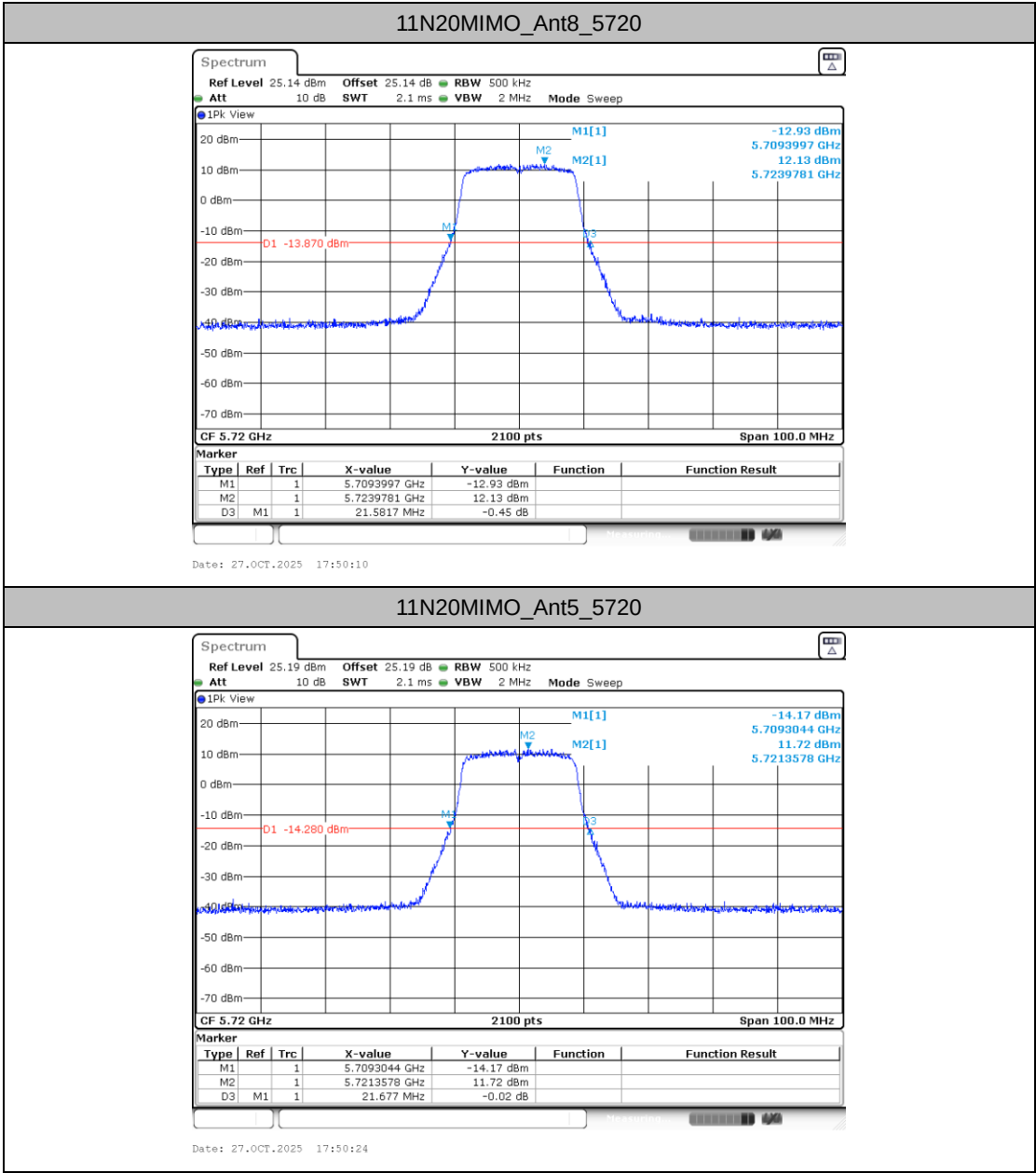


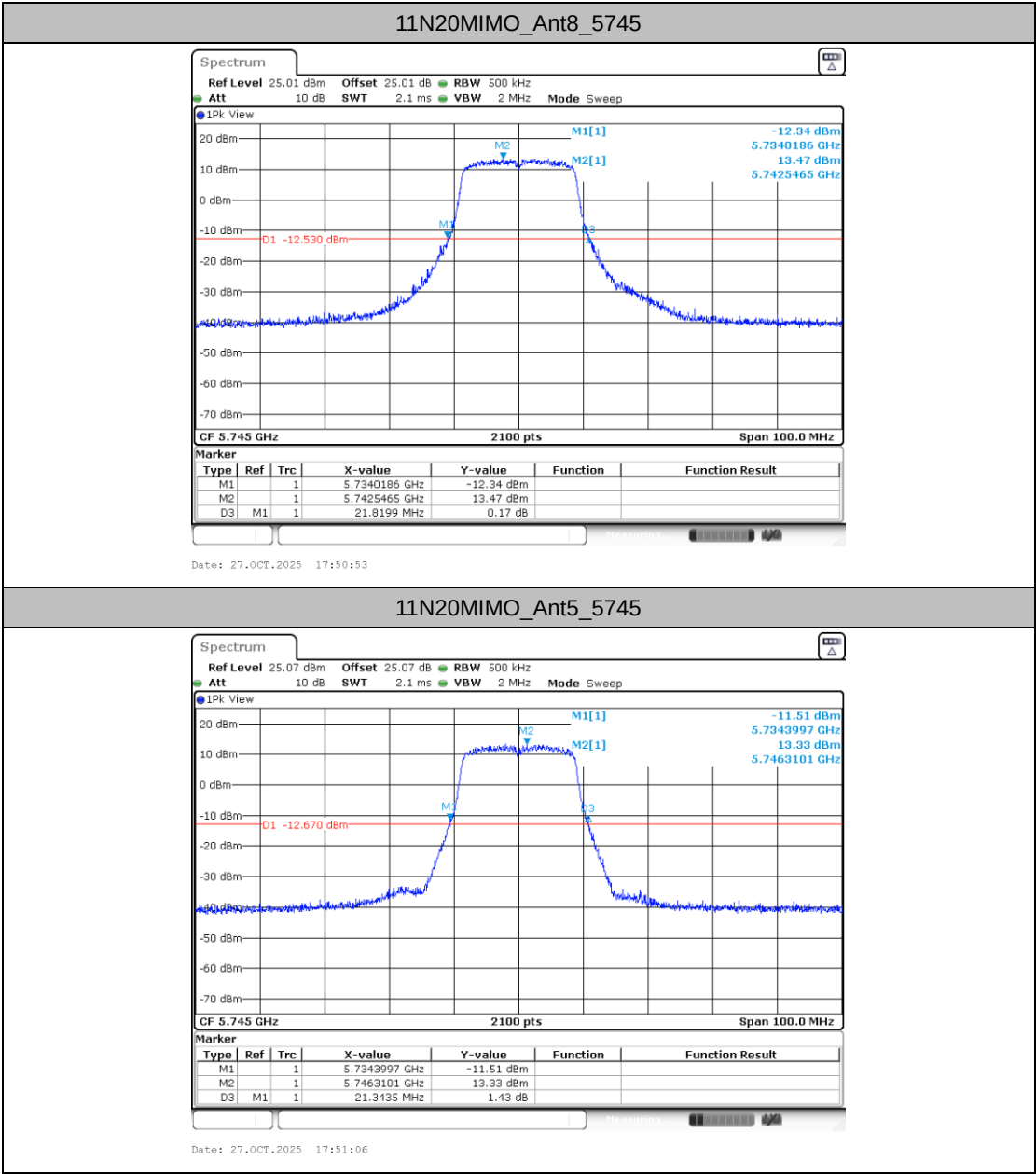


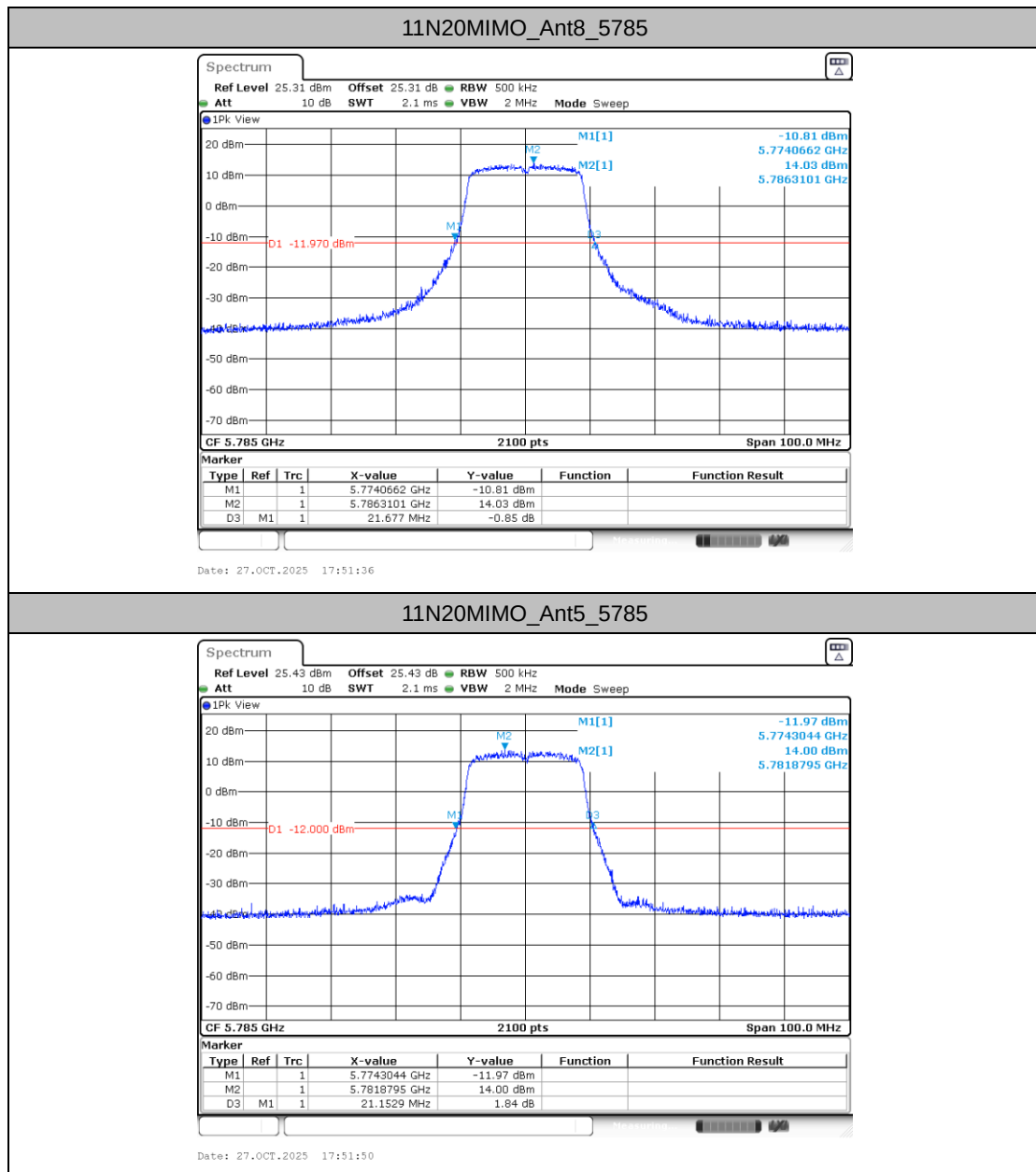


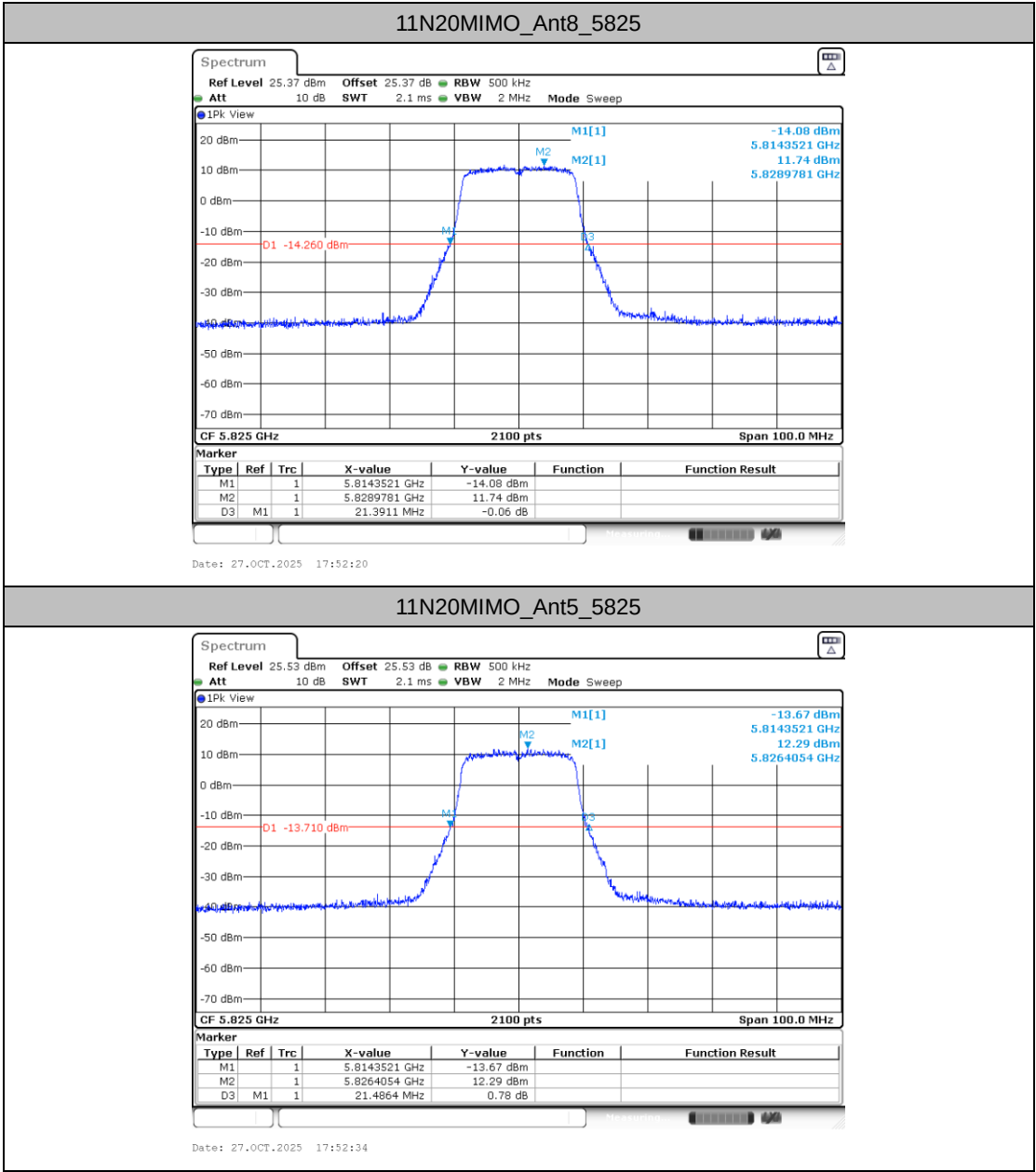


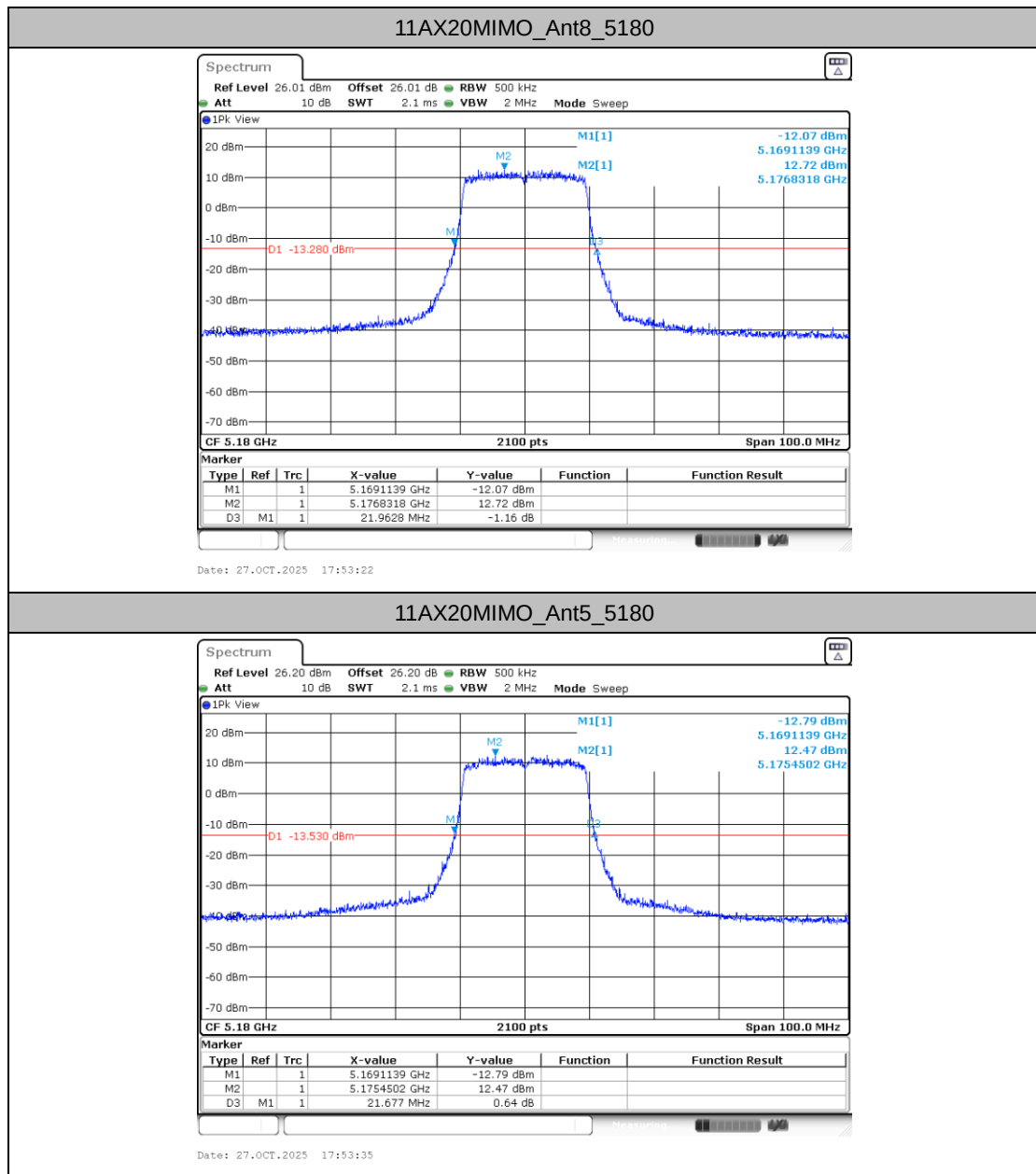


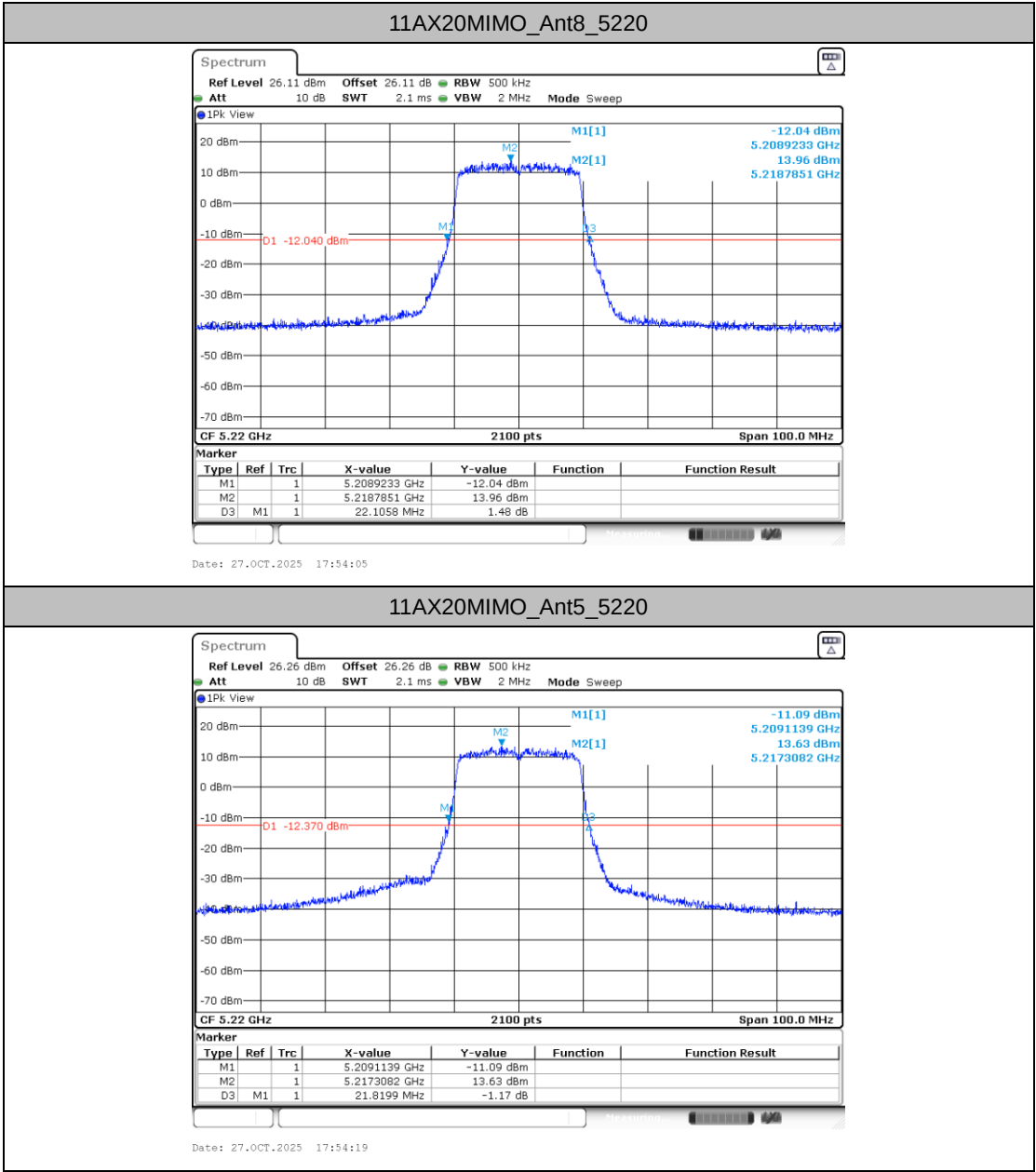


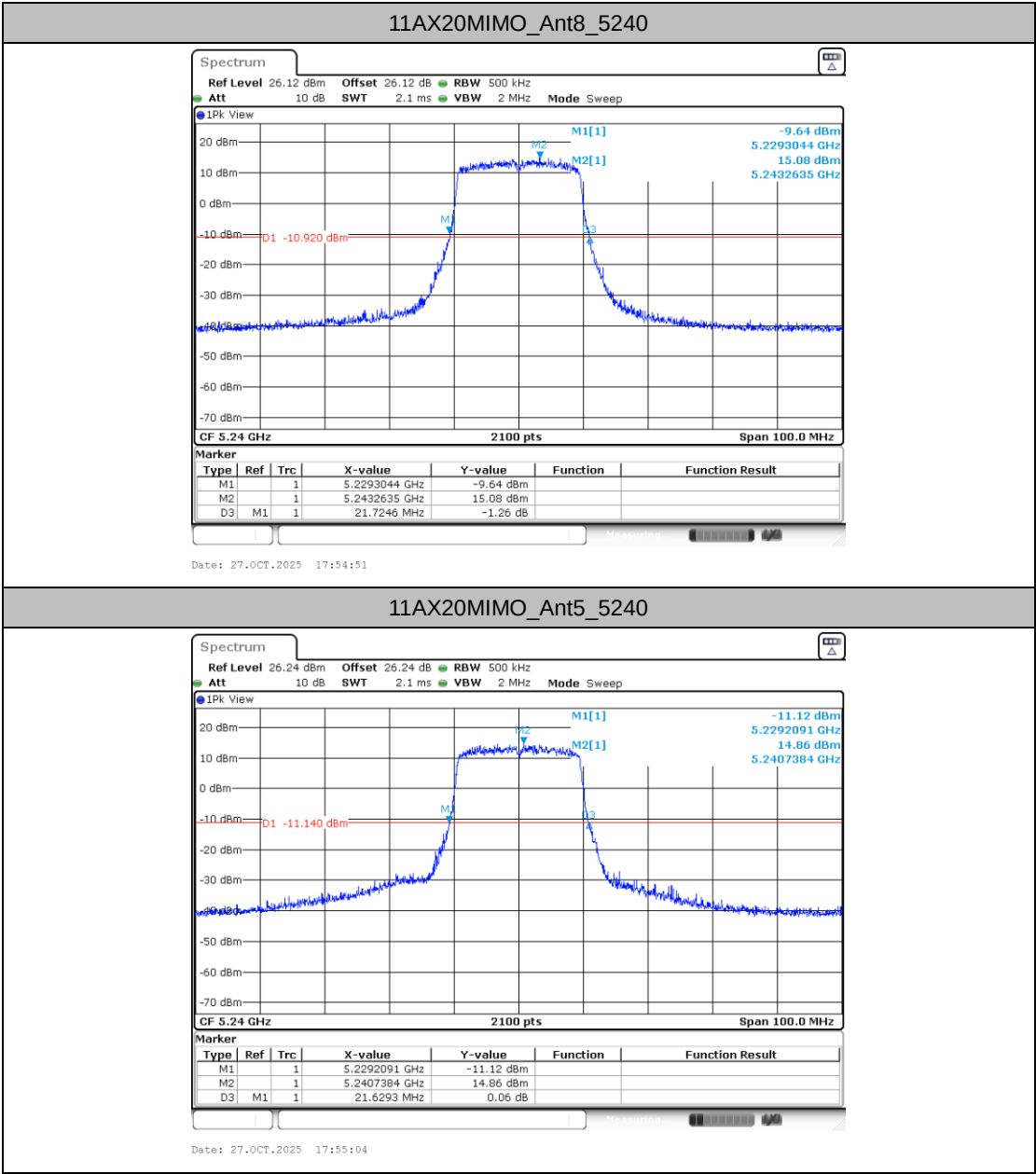


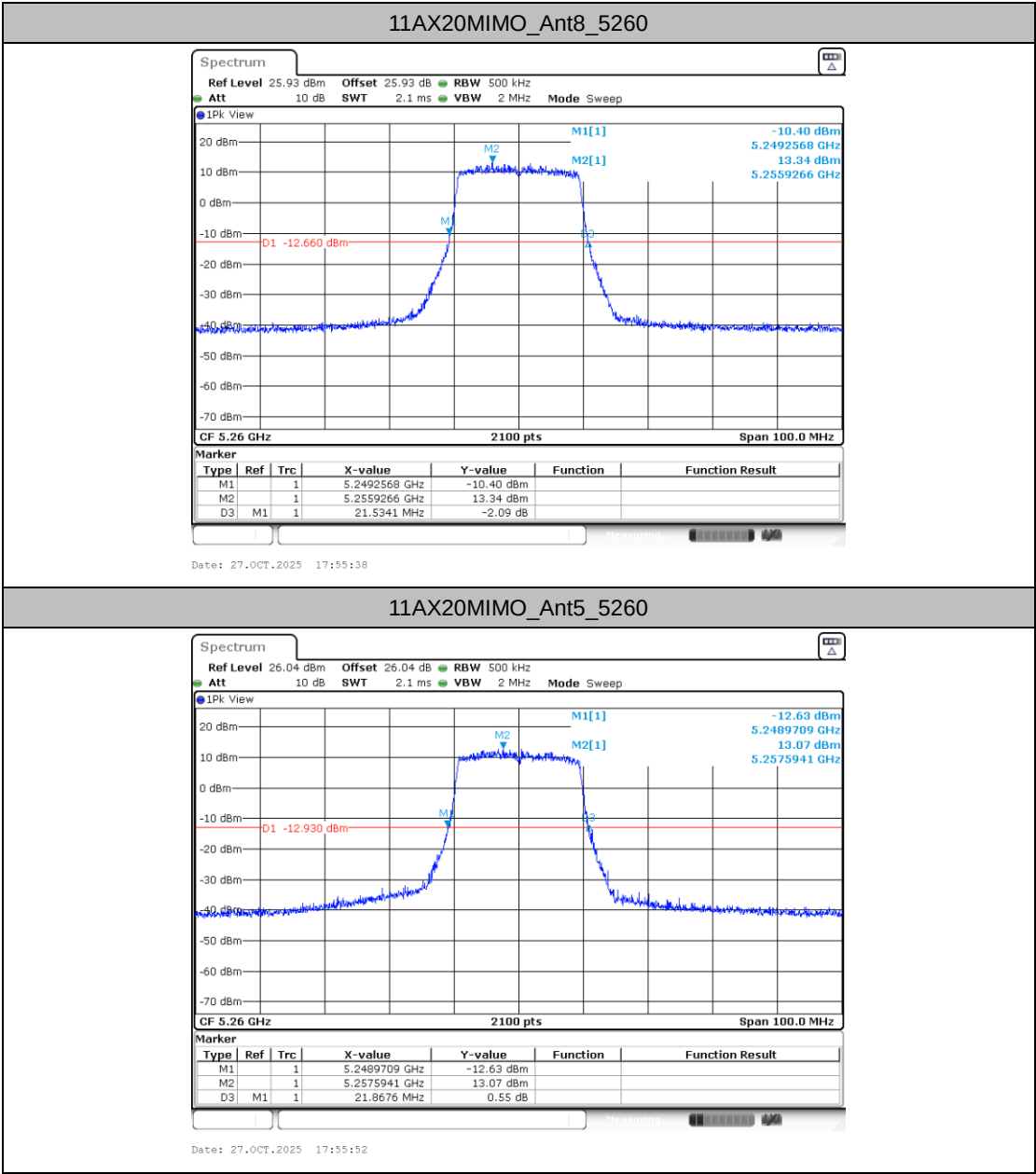


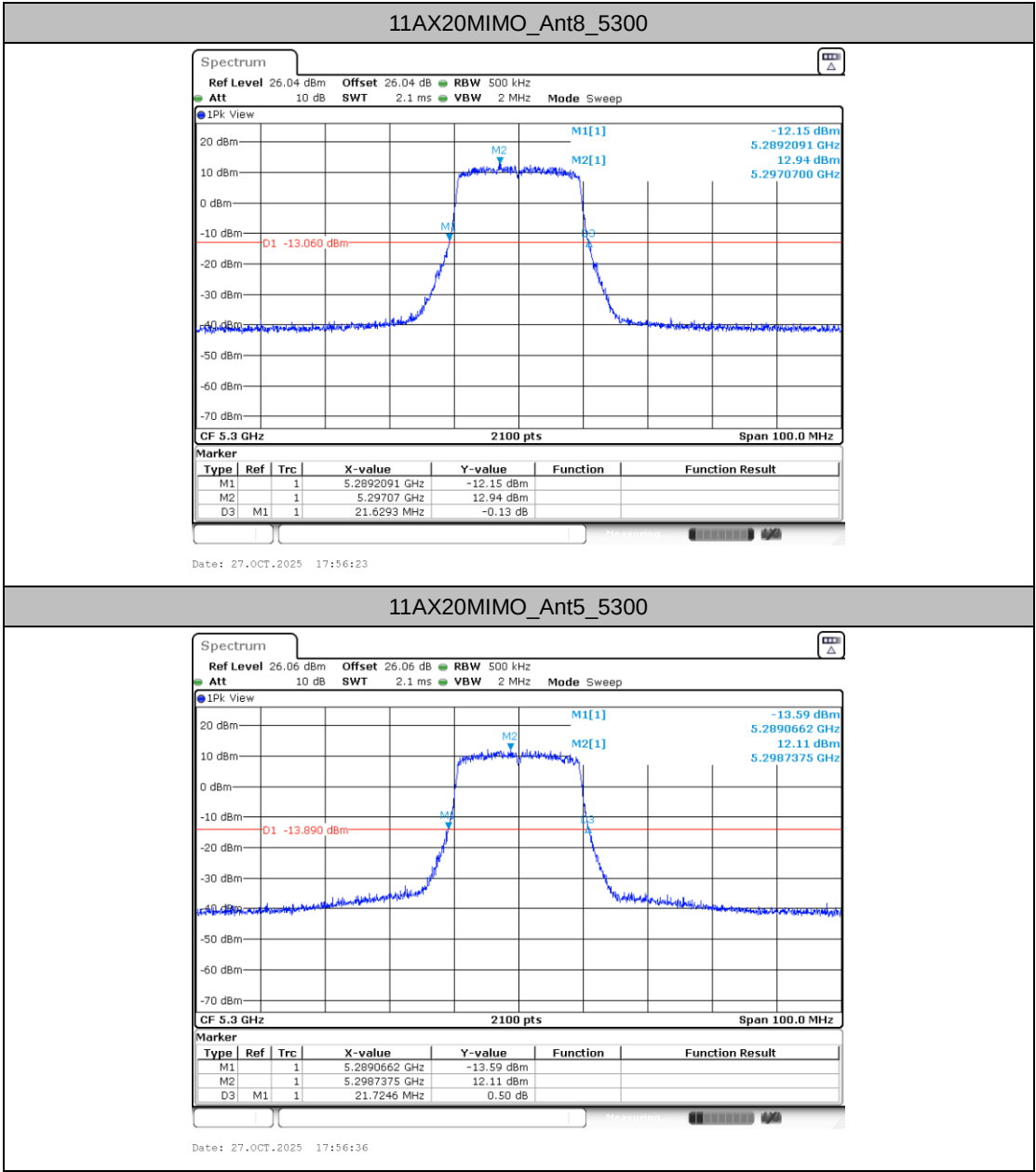


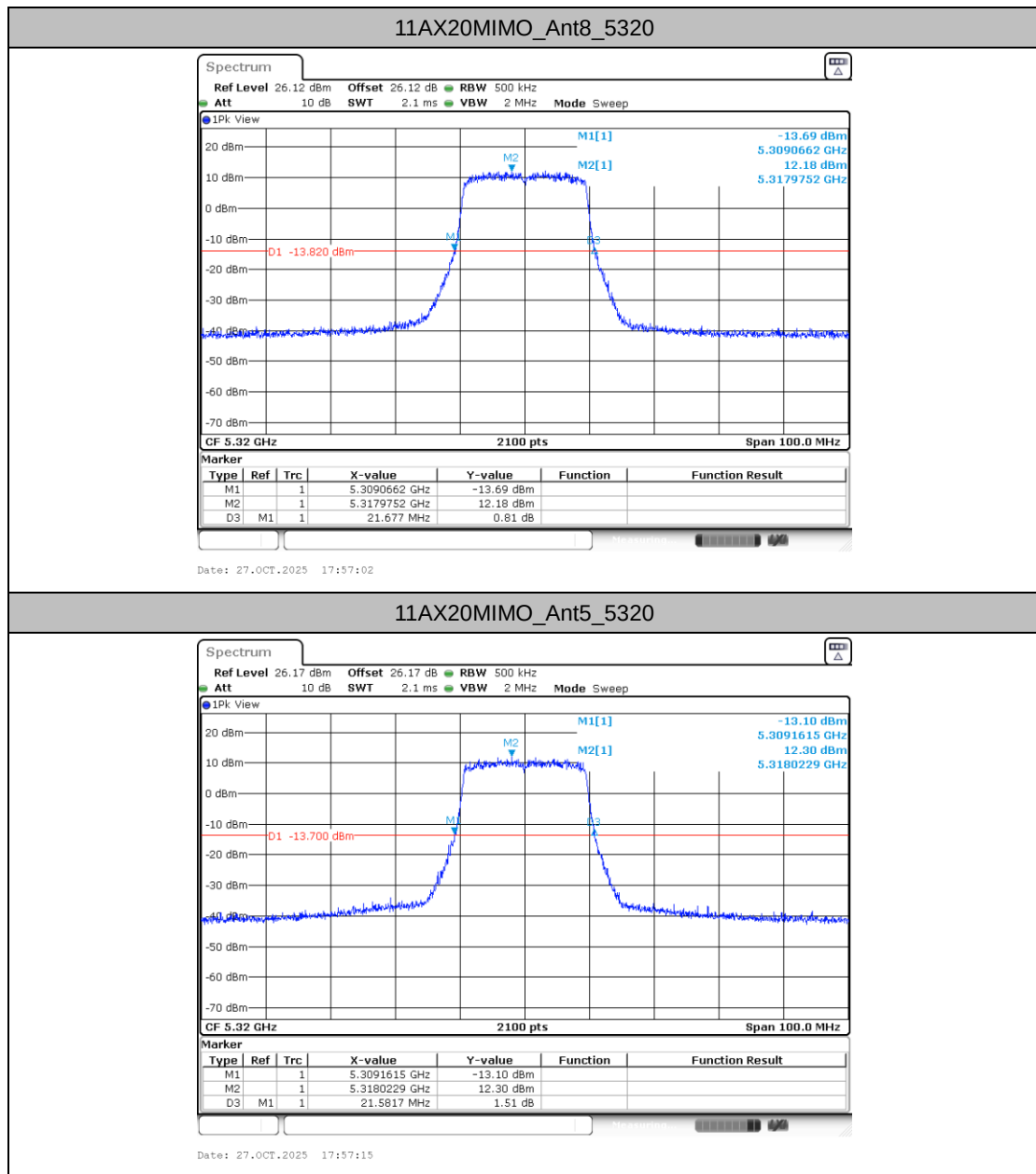


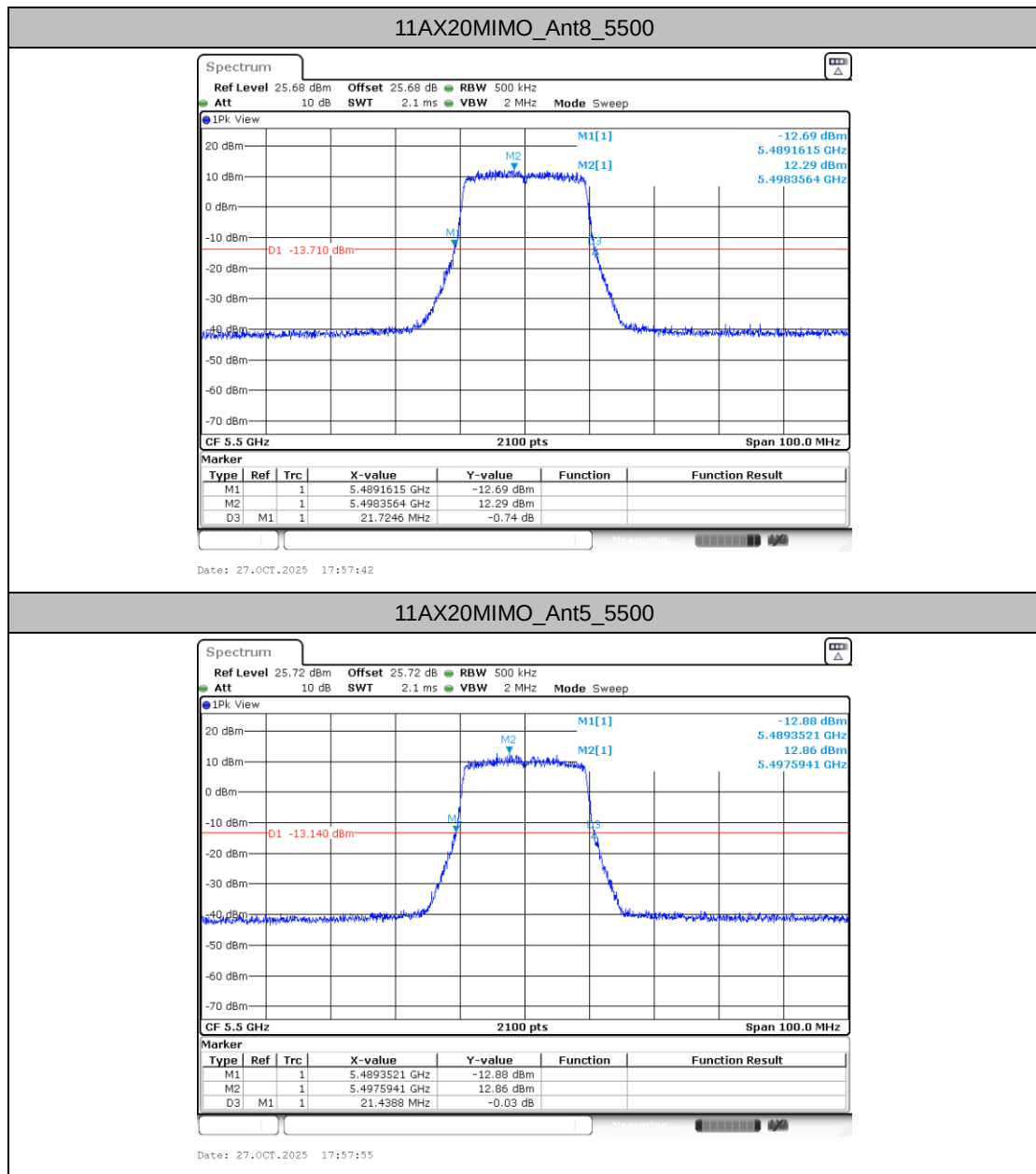


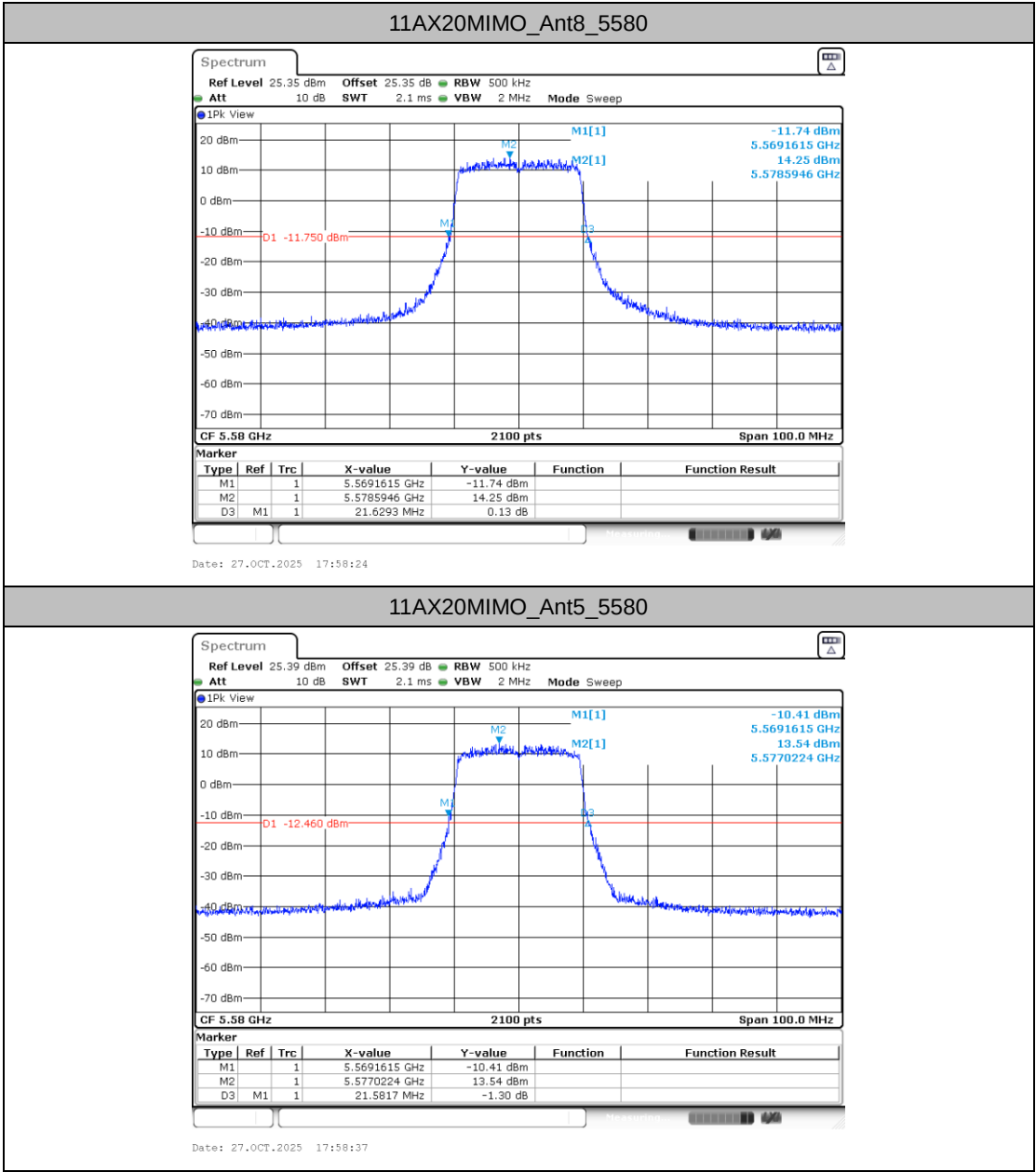


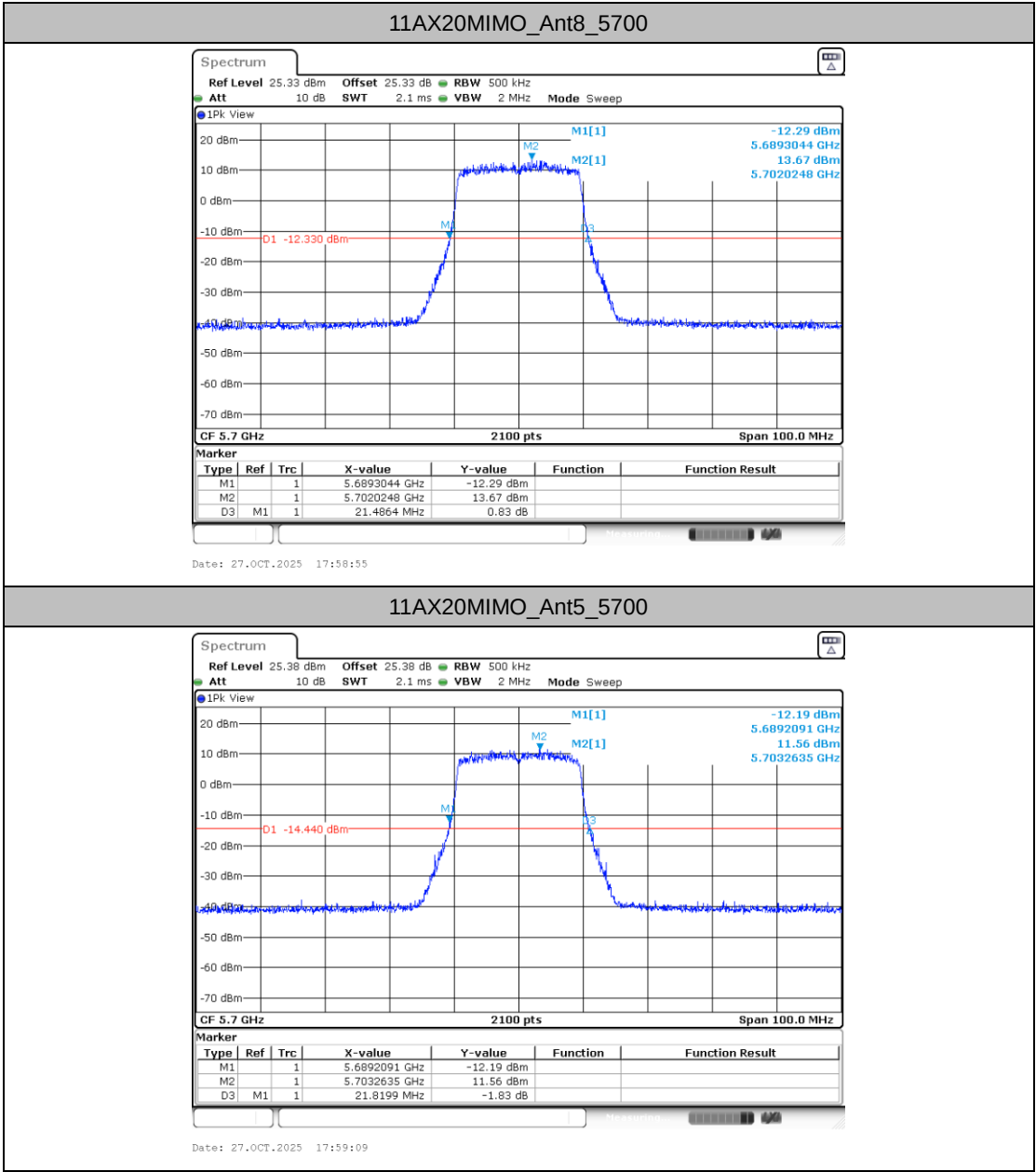


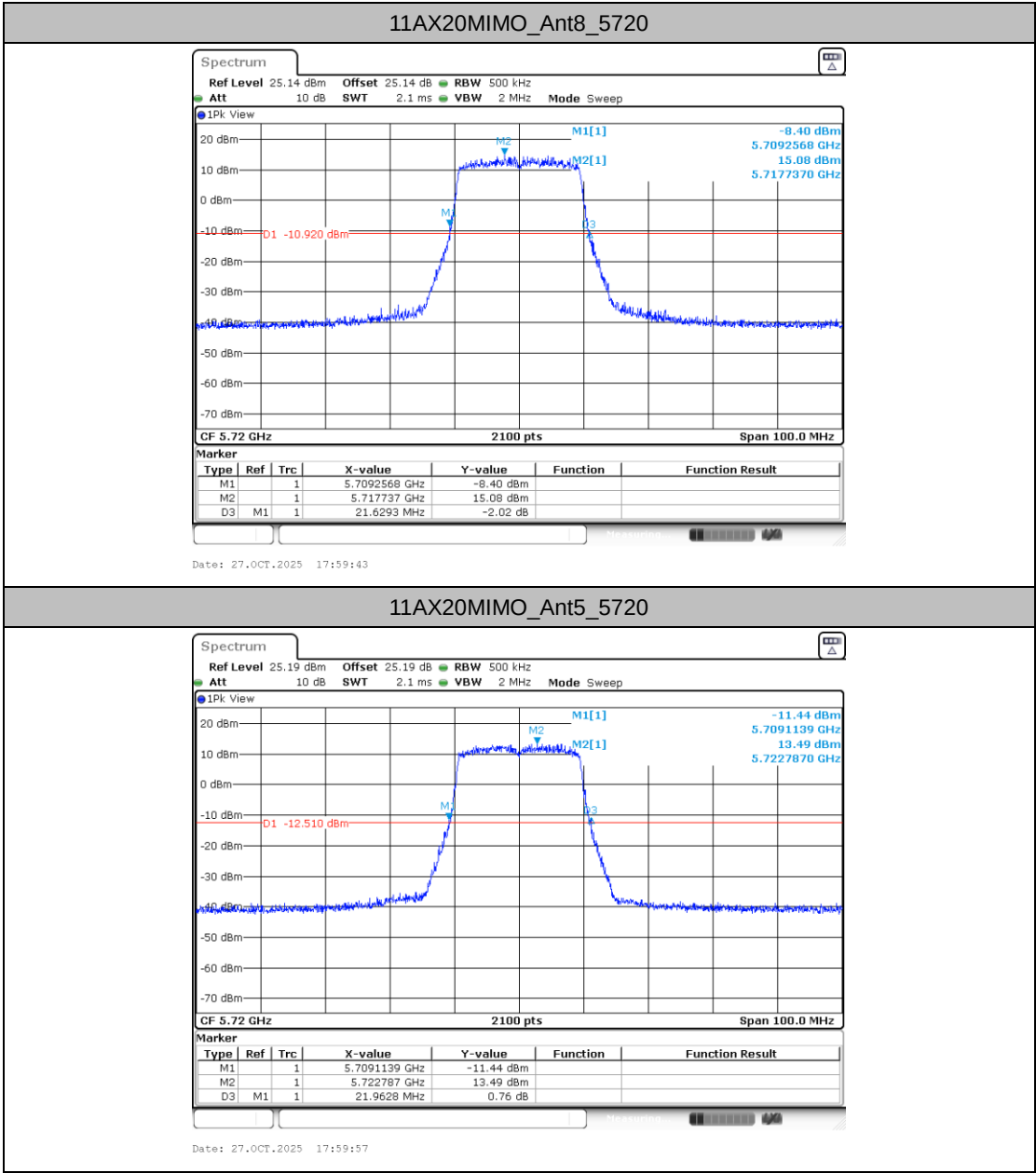


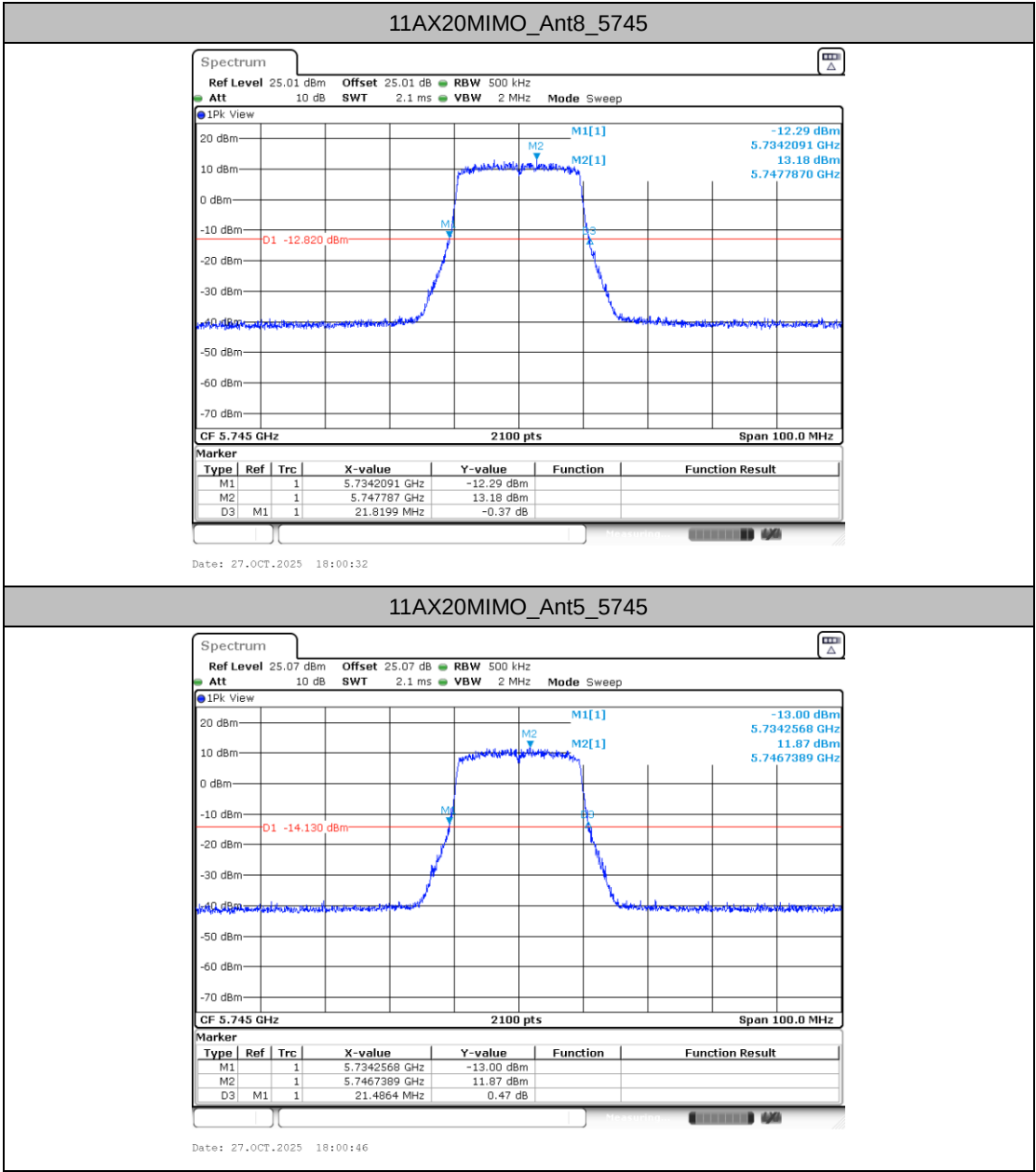


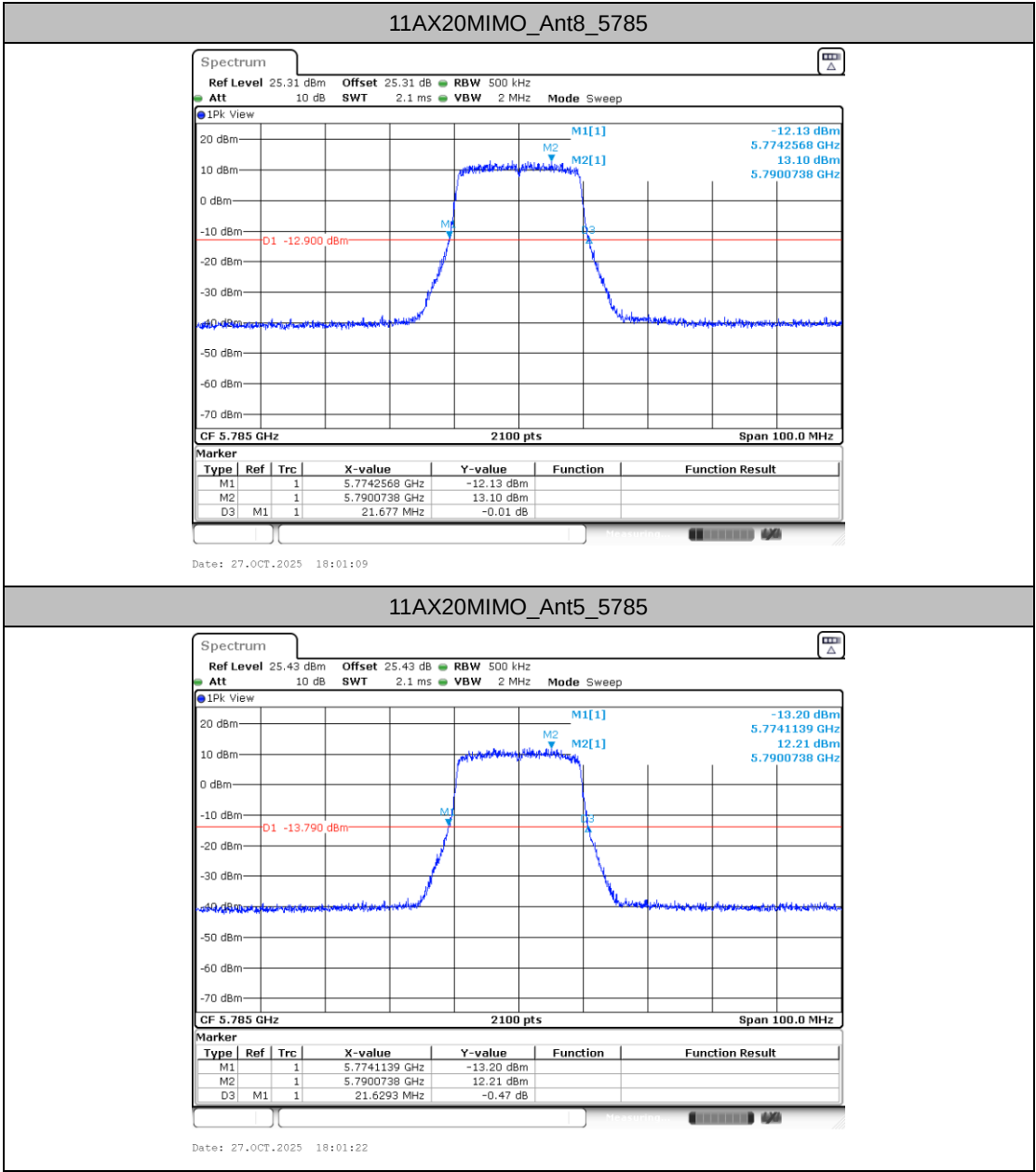


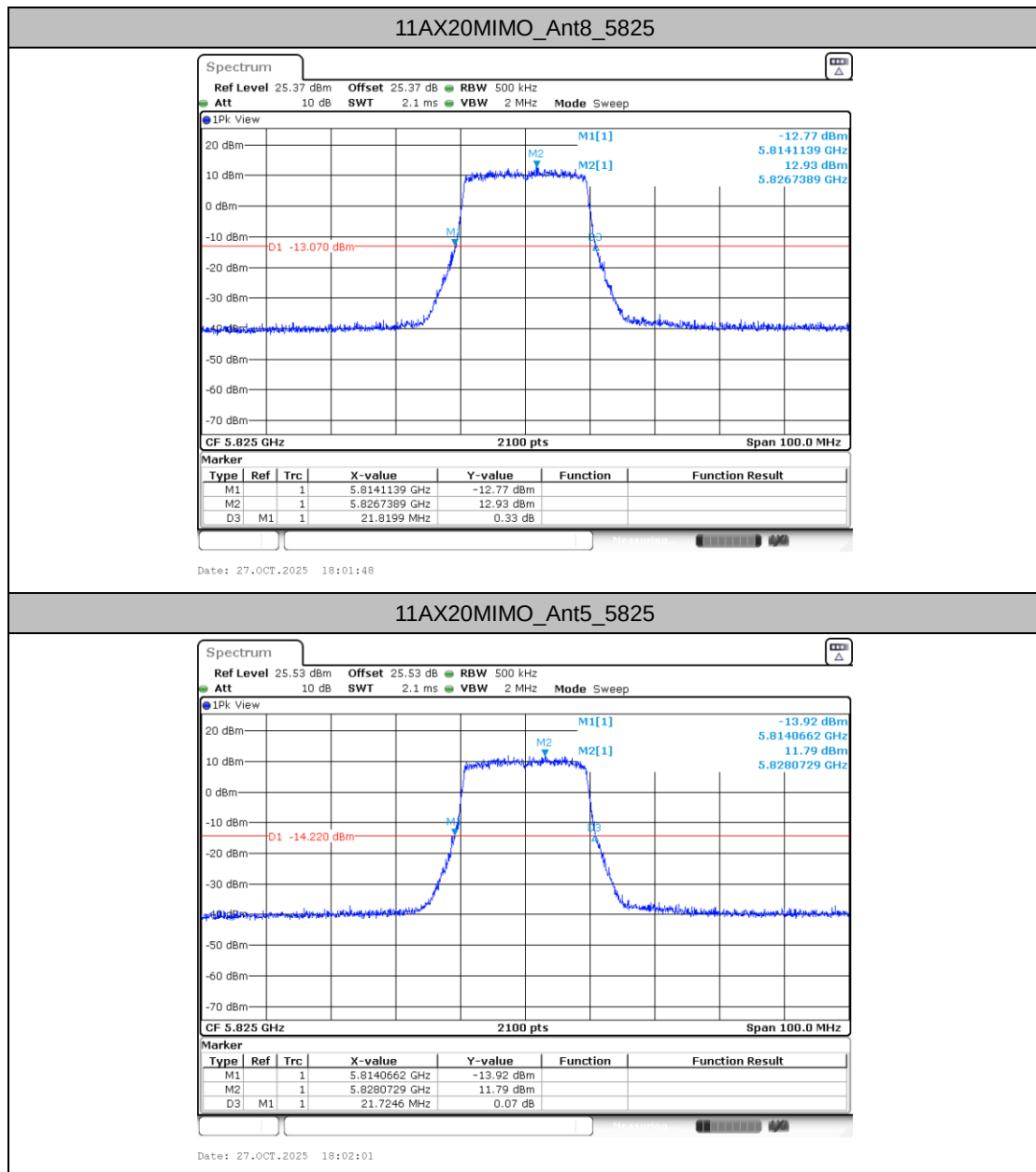














Appendix B. Radiated Spurious Emission Test Data

Test Engineer :	Chris	Relative Humidity :	52~56%
		Temperature :	22 ~25°C

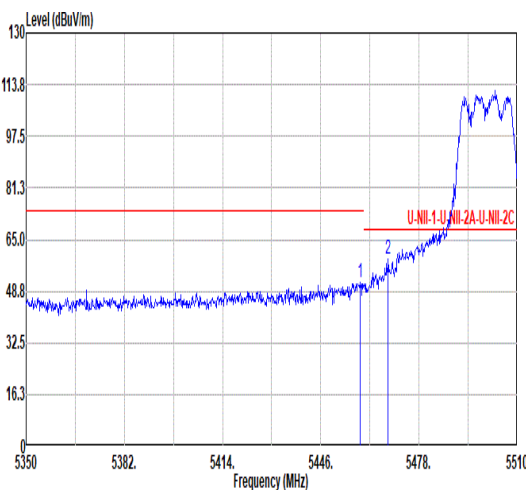
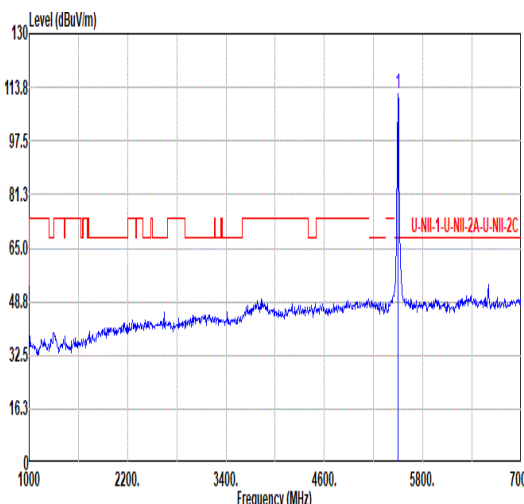
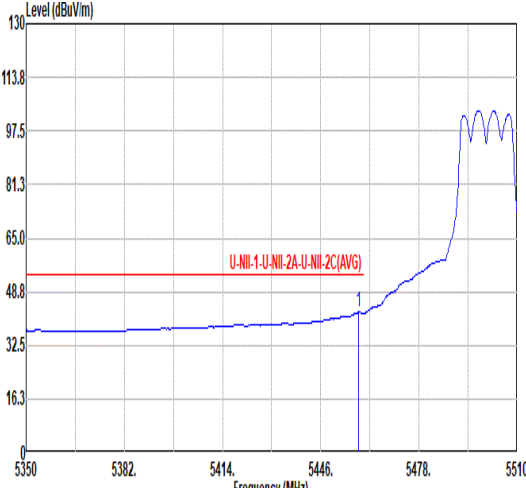
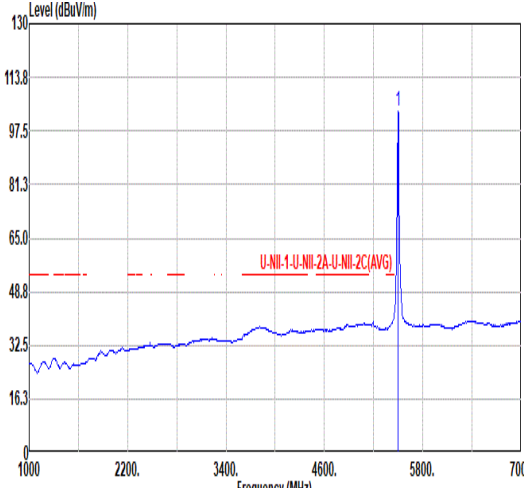
Radiated Spurious Emission Test Modes

Mode	Band	Band (GHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	U-NII-2C	5.47-5.725	CDD 8+5	802.11a	100	5500	6Mbps	-	-
Mode 2	U-NII-3	5.725-5.85	CDD 8+5	802.11ax HE20	157	5785	MCS0	Full RU	-

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11a	100	5467.92	58.73	68.20	-9.47	H	PEAK	Pass	Band Edge
	802.11a	100	11000.00	39.08	54.00	-14.92	V	AVERAGE	Pass	Harmonic
2	802.11ax HE20	157	5630.40	50.09	68.20	-18.11	H	PEAK	Pass	Band Edge
	802.11ax HE20	157	11570.00	45.26	74.00	-28.74	V	PEAK	Pass	Harmonic



Mode	1																																																																					
	Band Edge																																																																					
	U-NII-2C_5.47-5.725_802.11a_CH100_5500MHz																																																																					
ANT	CDD 8+5																																																																					
Pol.	Horizontal																																																																					
Peak																																																																						
	<table><thead><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5458.80</td><td>51.42</td><td>74.00</td><td>-22.58</td><td>42.77</td><td>34.98</td><td>10.97</td><td>37.30</td><td>0.00</td><td>115</td><td>288</td><td>PEAK</td></tr><tr><td>2</td><td>5467.92</td><td>58.73</td><td>68.20</td><td>-9.47</td><td>50.09</td><td>34.96</td><td>10.98</td><td>37.30</td><td>0.00</td><td>115</td><td>288</td><td>PEAK</td></tr></tbody></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5458.80	51.42	74.00	-22.58	42.77	34.98	10.97	37.30	0.00	115	288	PEAK	2	5467.92	58.73	68.20	-9.47	50.09	34.96	10.98	37.30	0.00	115	288	PEAK
		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																											
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																														
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																												
1	5458.80	51.42	74.00	-22.58	42.77	34.98	10.97	37.30	0.00	115	288	PEAK																																																										
2	5467.92	58.73	68.20	-9.47	50.09	34.96	10.98	37.30	0.00	115	288	PEAK																																																										
Fundamental																																																																						
	<table><thead><tr><th></th><th>Limit</th><th>Over</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5500.00</td><td>111.67</td><td>-----</td><td>-----</td><td>103.03</td><td>34.90</td><td>11.02</td><td>37.28</td><td>0.00</td><td>115</td><td>288</td><td>PEAK</td></tr></tbody></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor				MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	5500.00	111.67	-----	-----	103.03	34.90	11.02	37.28	0.00	115	288	PEAK													
		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																											
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																														
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																												
1	5500.00	111.67	-----	-----	103.03	34.90	11.02	37.28	0.00	115	288	PEAK																																																										
Avg																																																																						
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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																											
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																														
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																												
1	5458.32	42.48	54.00	-11.52	33.83	34.98	10.97	37.30	0.00	115	288	AVERAGE																																																										
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