



RADIO TEST REPORT

Applicant	:	Metra Electronics
Address of Applicant	:	460 Walker St, Holly Hill, FLORIDA, USA
Manufacturer	:	Huizhou Foryou General Electronics Co., Ltd.
Address of Manufacturer	:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China (PROC)
Equipment under Test	:	Bulldog
Model No.	:	PR-HUC
FCC ID	:	2AHL8-PRHUC
Test Standard(s)	:	47 CFR Part 15 Subpart E, ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024, 789033 D02 General U-NII Test Procedures New Rules v02r01, 905462 D02 UNII DFS Compliance Procedures New Rules v02 905462 D03 Client Without DFS New Rules v01r02
Report No.	:	DDT-RE25120138-2E04
Issue Date	:	2026/09/18
Issue By	:	Guangdong Dongdian Testing Service Co., Ltd. Unit 2, Building 1, No. 17, Zongbu 2nd Road, Songshan Lake Park, Dongguan, Guangdong, China, 523808

REPORT

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Test Report Declare

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Address of Manufacturer	:	No.2 District A, Foryou Industry Park, No. 1 North Shangxia Road, Dongjiang Hi tech Industry Park, 516005 Huizhou city, Guangdong Province, China (PROC)

Test Standard Used:

47 CFR Part 15 Subpart E,

ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024,

789033 D02 General U-NII Test Procedures New Rules v02r01,

905462 D02 UNII DFS Compliance Procedures New Rules v02

905462 D03 Client Without DFS New Rules v01r02

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-RE25120138-2E04		
Date of Receipt:	2026/01/07	Date of Test:	2026/02/04 - 2026/09/18

Created: Jacky Huang	Reviewed: Johnson Huang	Approved: Damon Hu
		
2026/05/31	2026/09/18	2026/09/18

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	2026/09/18	Damon Hu

1. Summary of Test Results

No.	Test Parameter	Clause No.	Condition	Result
1	6/26db Bandwidth and 99% Bandwidth	47 CFR Part 15 15.407 (e), RSS-247 Clause 7.3.4.2, RSS-Gen Clause 6.7	/	Pass
2	Output Power	47 CFR Part 15 15.407 (a), RSS-247 Clause 7.3.1.2, RSS-247 Clause 7.3.2.2, RSS-247 Clause 7.3.3.2, RSS-247 Clause 7.3.4.3	/	Pass
3	Power Spectral Density	47 CFR Part 15 15.407 (a), RSS-247 Clause 7.3.1.2, RSS-247 Clause 7.3.2.2, RSS-247 Clause 7.3.3.2, RSS-247 Clause 7.3.4.3	/	Pass
4	Frequency Stability Measurement	47 CFR Part 15 15.407 (g), RSS-Gen Clause 8.11	/	Pass
5	Radiated Emission	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205, RSS-247 Clause 7.3.1.3, RSS-247 Clause 7.3.2.3, RSS-247 Clause 7.3.3.3, RSS-247 Clause 7.3.4.4, RSS-Gen Clause 8.9	/	Pass
6	Band Edge Compliance	47 CFR Part 15 15.407 (b), 47 CFR Part 15 15.209, 47 CFR Part 15 15.205, RSS-247 Clause 7.3.1.3, RSS-247 Clause 7.3.2.3, RSS-247 Clause 7.3.3.3, RSS-247 Clause 7.3.4.4, RSS-Gen Clause 8.10	/	Pass
7	Antenna Requirement	47 CFR Part 15.203, RSS-Gen clause 6.8	/	Pass
8	Power Line Conducted Emissions	47 CFR Part 15 15.207(a), RSS-Gen clause 8.8	/	N/A
9	Dynamic Frequency Selection	47 CFR Part 15 15.407 (h), RSS-247 Clause 7.3.6	/	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	: Bulldog
Model Number	: PR-HUC
EUT Function Description	: Please reference user manual of this device
Power Supply	: DC 12V
Antenna Type	: PCB antenna
Max Antenna Gain (dBi)	: 2.25
Radio Technology	: IEEE 802.11a/n/ac
Operation frequency	: U-NII-1: 5180 MHz to 5240 MHz U-NII-2A: 5260 MHz to 5320 MHz U-NII-2C: 5500 MHz to 5720 MHz U-NII-3: 5745 MHz to 5825 MHz
Modulation	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)

Channel information					
IEEE 802.11a IEEE 802.11n (HT20) IEEE 802.11ac (VHT20)		IEEE 802.11n (HT40) IEEE802.11ac (VHT40)		IEEE 802.11ac (VHT80)	
UNII-1					
CH	Frequency (MHz)	CH	Frequency (MHz)	CH	Frequency (MHz)
36	5180	38	5190	42	5210
40	5200	46	5230	/	/
44	5220	/	/	/	/
48	5240	/	/	/	/
UNII-2A					
52	5260	54	5270	58	5290
56	5280	62	5310	/	/
60	5300	/	/	/	/
64	5320	/	/	/	/
UNII-2C					
100	5500	102	5510	106	5530
104	5520	110	5550	122	5610
108	5540	118	5590	138	5690 (Straddle)
112	5560	126	5630	/	/
116	5580	134	5670	/	/
120	5600	142	5710 (Straddle)	/	/
124	5620	/	/	/	/
128	5640	/	/	/	/
132	5660	/	/	/	/

136	5680	/	/	/	/
140	5700	/	/	/	/
144	5720 (Straddle)	/	/	/	/
UNII-3					
149	5745	151	5755	155	5775
153	5765	159	5795	/	/
157	5785	/	/	/	/
161	5805	/	/	/	/
165	5825	/	/	/	/

Note: 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.

2.2. Accessories of EUT

Accessories	Manufacturer	Part number	Description
Display screen	Huizhou Foryou General Electronics Co., Ltd.	PR-7	Only model number different, randomly shipped, alternative
		PR-10	

2.3. Block diagram of EUT configuration for test



2.4. Assistant equipment used for test

Assistant equipment	Manufacturer/Trademark	Model number	Description
HP 66 6 th Gen Core Edition 15.6-inch iaptop	HP	HP ProBook450 G10	Test computer
DC stabilized power supply	HY	HY3005B	DC stabilized power supply
M6a Plus Mash Wi-Fi Router	Mercku Inc.	M6a Plus	Master, FCC ID: 2APR4-M6P

2.5. Decision of final test mode

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

Test software: adb.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: 2 dB (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			
IEEE 802.11a	Default	6	LCH: CH36	5180
		6	MCH: CH40	5200
		6	HCH: CH48	5240
		6	LCH: CH52	5260
		6	MCH: CH56	5280
		6	HCH: CH64	5320
		6	LCH: CH100	5500
		6	MCH: CH116	5580
		6	HCH: CH140	5700
		6	Straddle: CH144	5720
		6	LCH: CH149	5745
		6	MCH: CH157	5785
IEEE 802.11n HT20	Default	MCS 0	LCH: CH36	5180
		MCS 0	MCH: CH40	5200
		MCS 0	HCH: CH48	5240
		MCS 0	LCH: CH52	5260
		MCS 0	MCH: CH56	5280
		MCS 0	HCH: CH64	5320
		MCS 0	LCH: CH100	5500
		MCS 0	MCH: CH116	5580
		MCS 0	HCH: CH140	5700
		MCS 0	Straddle: CH144	5720
		MCS 0	LCH: CH149	5745
		MCS 0	MCH: CH157	5785
IEEE 802.11n HT40	48	MCS 8	LCH: CH38	5190
		MCS 0	HCH: CH46	5230
		MCS 0	LCH: CH54	5270

		MCS 0	HCH: CH62	5310
		MCS 0	LCH: CH102	5510
		MCS 0	MCH: CH110	5550
		MCS 0	HCH: CH134	5670
		MCS 0	Straddle: CH142	5710
	Default	MCS 0	LCH: CH151	5755
		MCS 0	HCH: CH159	5795
IEEE 802.11ac VHT20	Default	MCS 0	LCH: CH36	5180
		MCS 0	MCH: CH40	5200
		MCS 0	HCH: CH48	5240
		MCS 0	LCH: CH52	5260
		MCS 0	MCH: CH56	5280
		MCS 0	HCH: CH64	5320
		MCS 0	LCH: CH100	5500
		MCS 0	MCH: CH116	5580
		MCS 0	HCH: CH140	5700
		MCS 0	Straddle: CH144	5720
		MCS 0	LCH: CH149	5745
		MCS 0	MCH: CH157	5785
		MCS 0	HCH: CH165	5825
IEEE 802.11 ac VHT40	47	MCS 0	LCH: CH38	5190
		MCS 0	HCH: CH46	5230
		MCS 0	LCH: CH54	5270
		MCS 0	HCH: CH62	5310
		MCS 0	LCH: CH102	5510
		MCS 0	MCH: CH110	5550
		MCS 0	HCH: CH134	5670
		MCS 0	Straddle: CH142	5710
	Default	MCS 0	LCH: CH159	5755
		MCS 0	HCH: CH36	5795
IEEE 802.11ac VHT80	47	MCS 0	CH42	5210
		MCS 0	CH58	5290
		MCS 0	LCH: CH106	5530
		MCS 0	HCH: CH122	5610
		MCS 0	Straddle: CH138	5690
	Default	MCS 0	CH155	5775
Note: According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.				

2.6. Deviations of test standard

No deviation.

2.7. 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.

2.8. 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

2.9. Measurement uncertainty

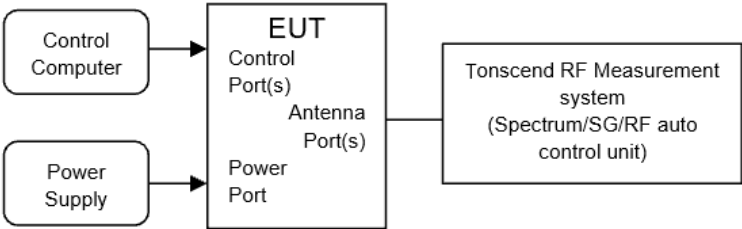
Test Item	Uncertainty
Bandwidth	1.9%
Peak Output Power (Conducted) (Spectrum analyzer)	0.98 dB
Peak Output Power (Conducted) (Power Sensor)	1.18 dB
Power Spectral Density (Base EIRP)	1.51 dB
Power Spectral Density (Spectrum analyzer)	0.98 dB
Frequencies Stability	1.9 kHz
Conducted spurious emissions	1.21 dB ($9\text{ kHz} \leq f < 7\text{ GHz}$);
	3.31 dB ($7\text{ GHz} \leq f < 40\text{ GHz}$)
Uncertainty for radio frequency (RBW < 20 kHz)	5.5×10^{-8}
Time	0.11%
Temperature	0.3 °C
Humidity	2 %
Uncertainty for Radiation Emission test (9 kHz – 30 MHz)	3.44 dB
Uncertainty for Radiation Emission test (30 MHz - 1 GHz)	4.28 dB (Antenna Polarize: V)
	4.14 dB (Antenna Polarize: H)
Uncertainty for Radiation Emission test (1 GHz - 40 GHz)	4.22 dB (1 - 6 GHz)
	4.52 dB (6 GHz - 18 GHz)
	4.58 dB (18 GHz - 40 GHz)
Uncertainty for Power line conduction emission test	3.32dB (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	Cal. Interval
☑RF Connected Test (RF Measurement System 4#)					
Signal &Spectrum Analyzer	R&S	FSV3044	101173	2026/03/28	1 Year
				2027/02/27	1 Year
Wideband Radio Communication Tester	R&S	CMW500	168801	2026/03/28	1 Year
				2027/02/27	1 Year
MXG Vector Signal Generator	Agilent	N5182A	MY48180737	2026/03/28	1 Year
				2027/03/18	1 Year
PSG Vector Signal Generator	Agilent	E8267D	US49060192	2026/08/10	1 Year
				2027/06/21	1 Year
RF Control Unit	Tonscend	JS0806-2	2118060485	2026/03/28	1 Year
				2027/02/27	1 Year
TEMP&HUMI Programmable Chamber	ZHIXIANG	ZXGDJS-150L	ZX170110-A	2026/03/28	1 Year
				2027/02/27	1 Year
Test Software	Tonscend	JS1120-3	V3.6.21	N/A	N/A

4. 26dB Bandwidth

4.1. Block diagram of test setup



4.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
26 dB Bandwidth	---	5150 - 5250
	---	5250 - 5350
	---	For FCC: 5470 - 5725 For IC: 5470 - 5600 5650 - 5725

4.3. Test procedure

Connect EUT's antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	approximately 1~5% of the OBW.
VBW	≥ 3 RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 26 dB relative to the maximum level measured in the fundamental emission.

4.4. Test result

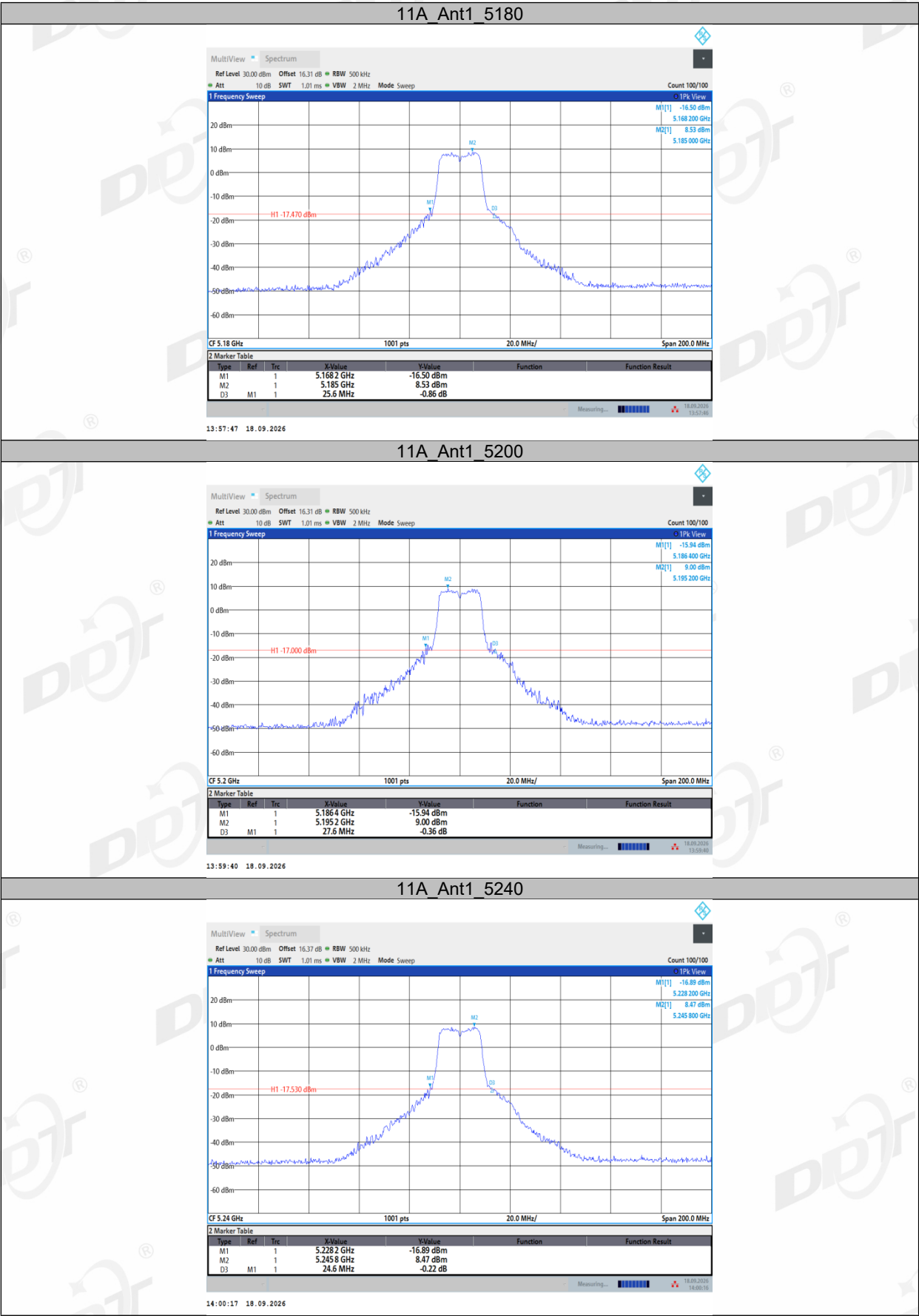
Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.6-27.5℃,36.9-48.2%RH	Test Date:	2026.03.01-2026.09.18
Test Power Supply:	DC 12V	Sample Number:	S25120138-006

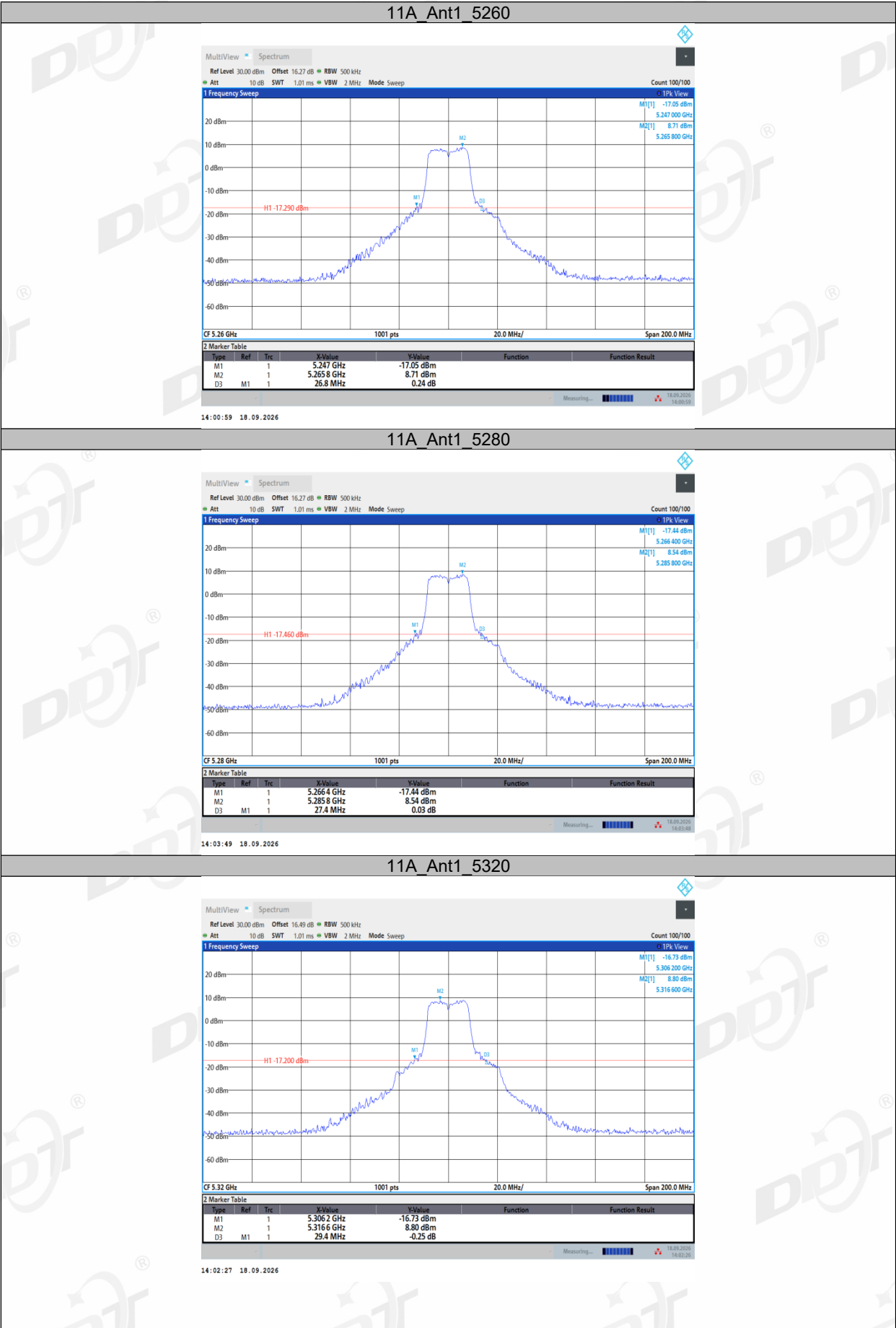
Test Mode	Antenna	Frequency [MHz]	26db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	25.60	5168.20	5193.80	---	---
		5200	27.60	5186.40	5214.00	---	---
		5240	24.60	5228.20	5252.80	---	---
		5260	26.80	5247.00	5273.80	---	---
		5280	27.40	5266.40	5293.80	---	---
		5320	29.40	5306.20	5335.60	---	---
		5500	21.80	5489.00	5510.80	---	---
		5580	21.80	5569.00	5590.80	---	---
		5700	21.80	5689.20	5711.00	---	---
		5720	22.00	5709.00	5731.00	---	---
		5720_UNII-2C	16	5709.00	5725	---	---
		5720_UNII-3	6	5725	5731.00	---	---
11N20SISO	Ant1	5180	25.80	5168.80	5194.60	---	---
		5200	23.40	5188.60	5212.00	---	---
		5240	22.60	5228.60	5251.20	---	---
		5260	26.40	5248.60	5275.00	---	---
		5280	26.20	5268.60	5294.80	---	---
		5320	29.60	5305.60	5335.20	---	---
		5500	22.60	5488.80	5511.40	---	---

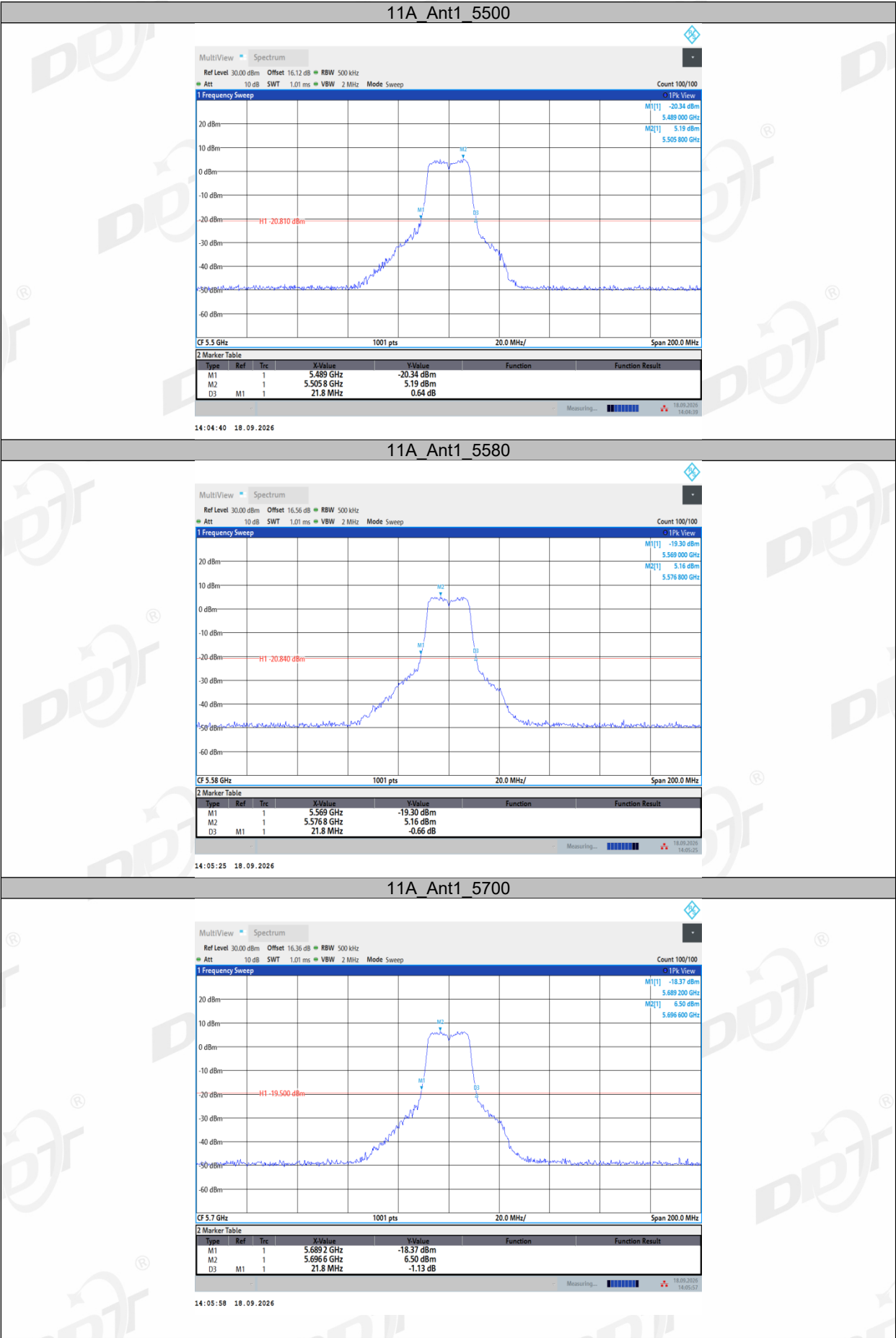
		5580	22.80	5568.60	5591.40	---	---
		5700	22.60	5688.60	5711.20	---	---
		5720	22.60	5708.60	5731.20	---	---
		5720_UNII-2C	16.4	5708.60	5725	---	---
		5720_UNII-3	6.2	5725	5731.20	---	---
11N40SISO	Ant1	5190	66.24	5165.88	5232.12	---	---
		5230	65.16	5206.24	5271.40	---	---
		5270	69.84	5245.52	5315.36	---	---
		5310	79.56	5276.16	5355.72	---	---
		5510	46.44	5486.24	5532.68	---	---
		5550	43.92	5528.40	5572.32	---	---
		5670	44.28	5648.76	5693.04	---	---
		5710	43.20	5688.40	5731.60	---	---
		5710_UNII-2C	36.6	5688.40	5725	---	---
		5710_UNII-3	6.6	5725	5731.60	---	---
11AC20SISO	Ant1	5180	30.40	5167.20	5197.60	---	---
		5200	24.60	5187.80	5212.40	---	---
		5240	24.00	5228.80	5252.80	---	---
		5260	30.20	5247.40	5277.60	---	---
		5280	30.20	5267.20	5297.40	---	---
		5320	32.40	5305.40	5337.80	---	---
		5500	22.60	5488.80	5511.40	---	---
		5580	22.60	5568.80	5591.40	---	---
		5700	22.60	5688.80	5711.40	---	---

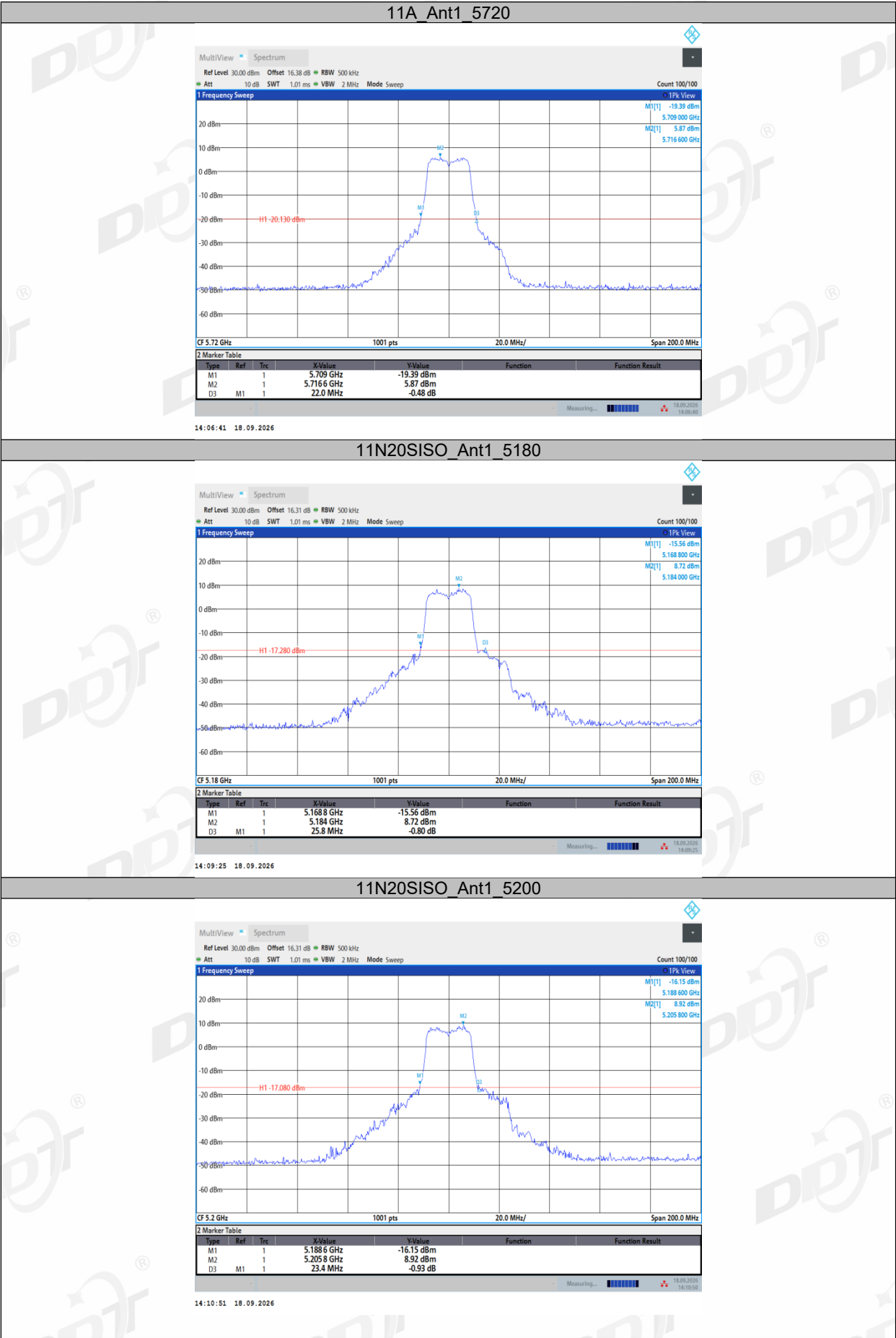
		5720	22.60	5708.80	5731.40	---	---
		5720_UNII-2C	16.2	5708.80	5725	---	---
		5720_UNII-3	6.4	5725	5731.40	---	---
11AC40SISO	Ant1	5190	56.88	5168.76	5225.64	---	---
		5230	48.24	5208.40	5256.64	---	---
		5270	61.20	5248.40	5309.60	---	---
		5310	69.48	5286.24	5355.72	---	---
		5510	43.92	5488.40	5532.32	---	---
		5550	43.92	5528.40	5572.32	---	---
		5670	43.56	5648.76	5692.32	---	---
		5710	43.56	5688.40	5731.96	---	---
		5710_UNII-2C	36.6	5688.40	5725	---	---
		5710_UNII-3	6.96	5725	5731.96	---	---
11AC80SISO	Ant1	5210	145.60	5158.00	5303.60	---	---
		5290	119.20	5236.40	5355.60	---	---
		5530	84.00	5488.40	5572.40	---	---
		5610	93.60	5558.80	5652.40	---	---
		5690	84.80	5648.40	5733.20	---	---
		5690_UNII-2C	76.6	5648.40	5725	---	---
		5690_UNII-3	8.2	5725	5733.20	---	---

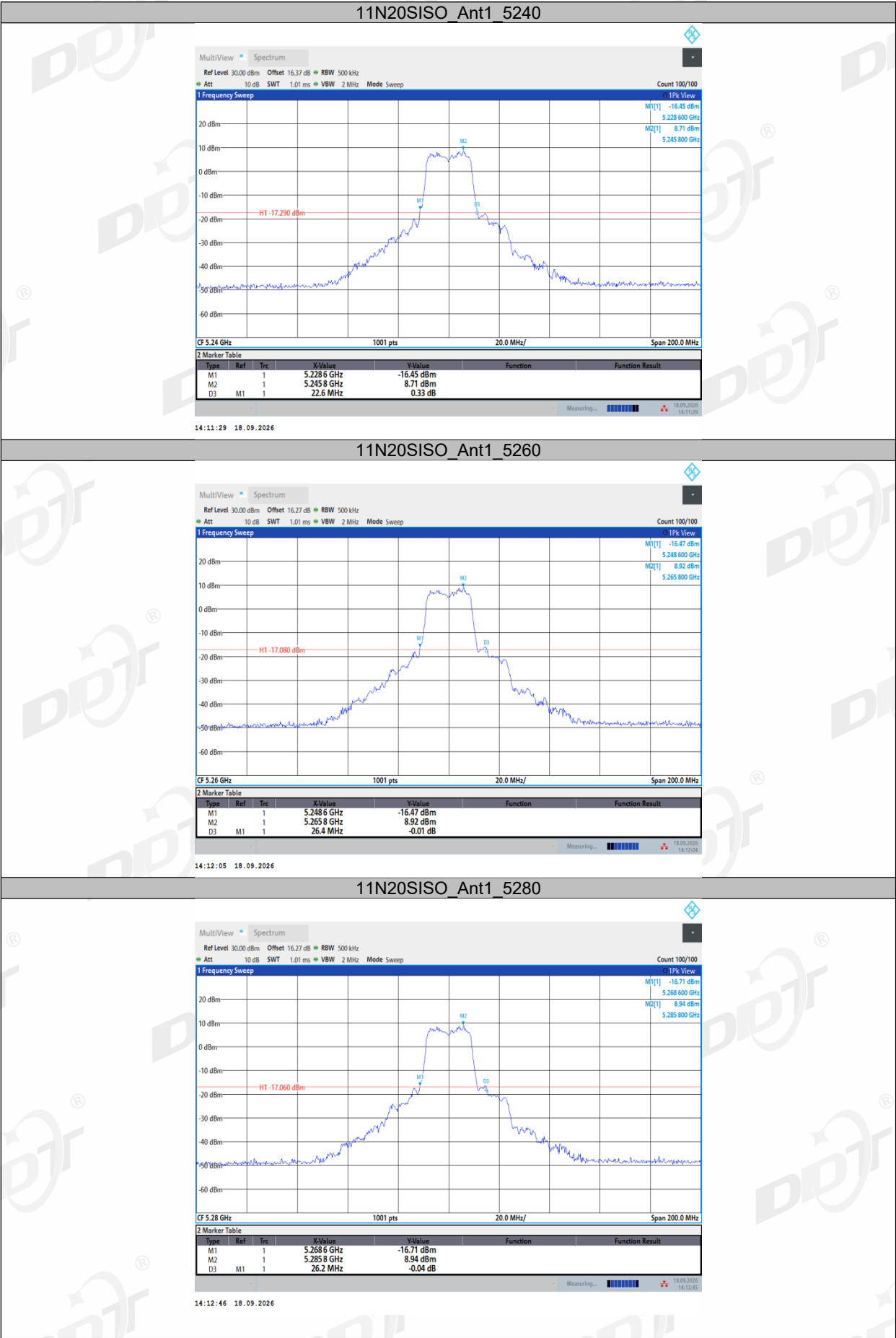
4.5. Test graphs

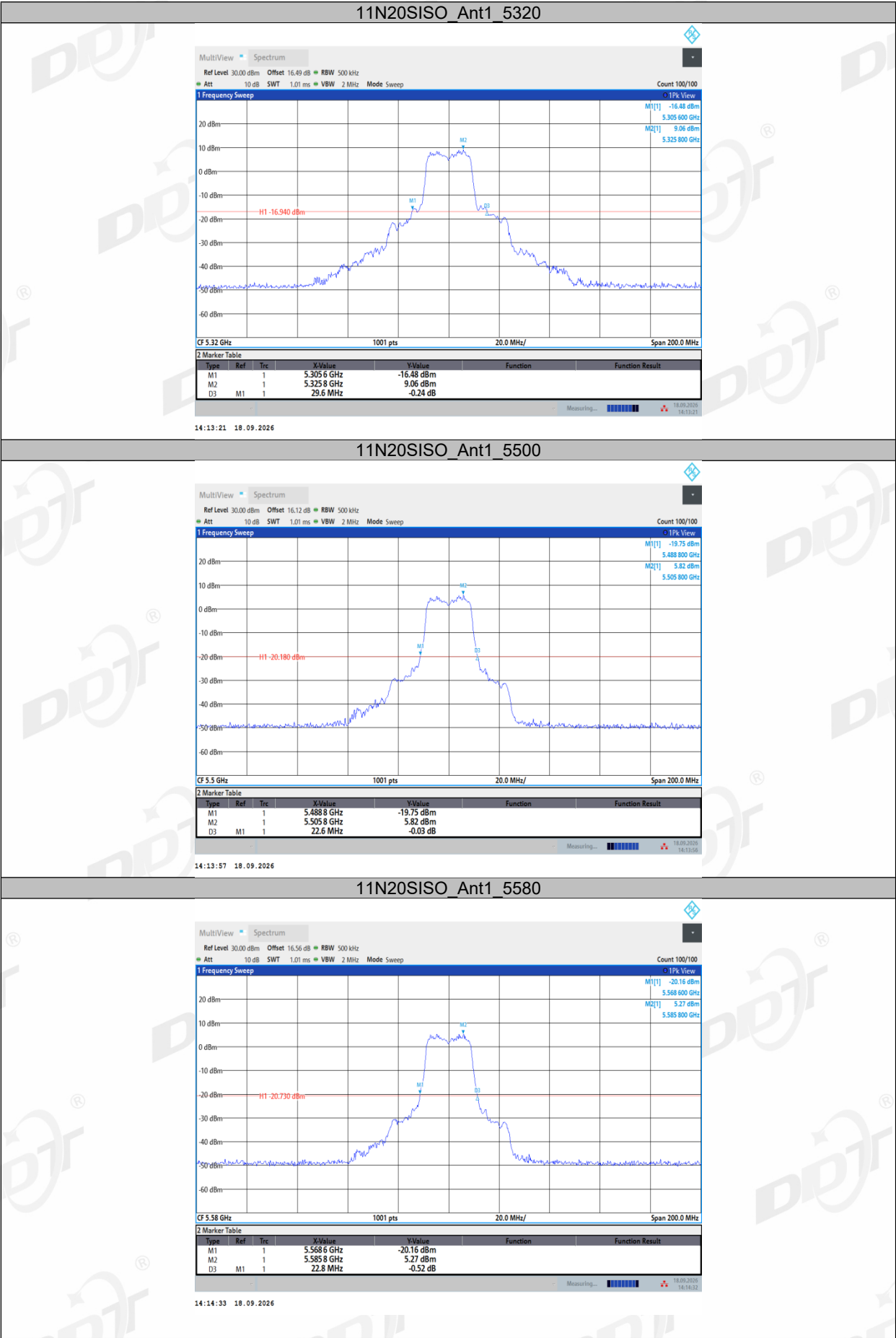


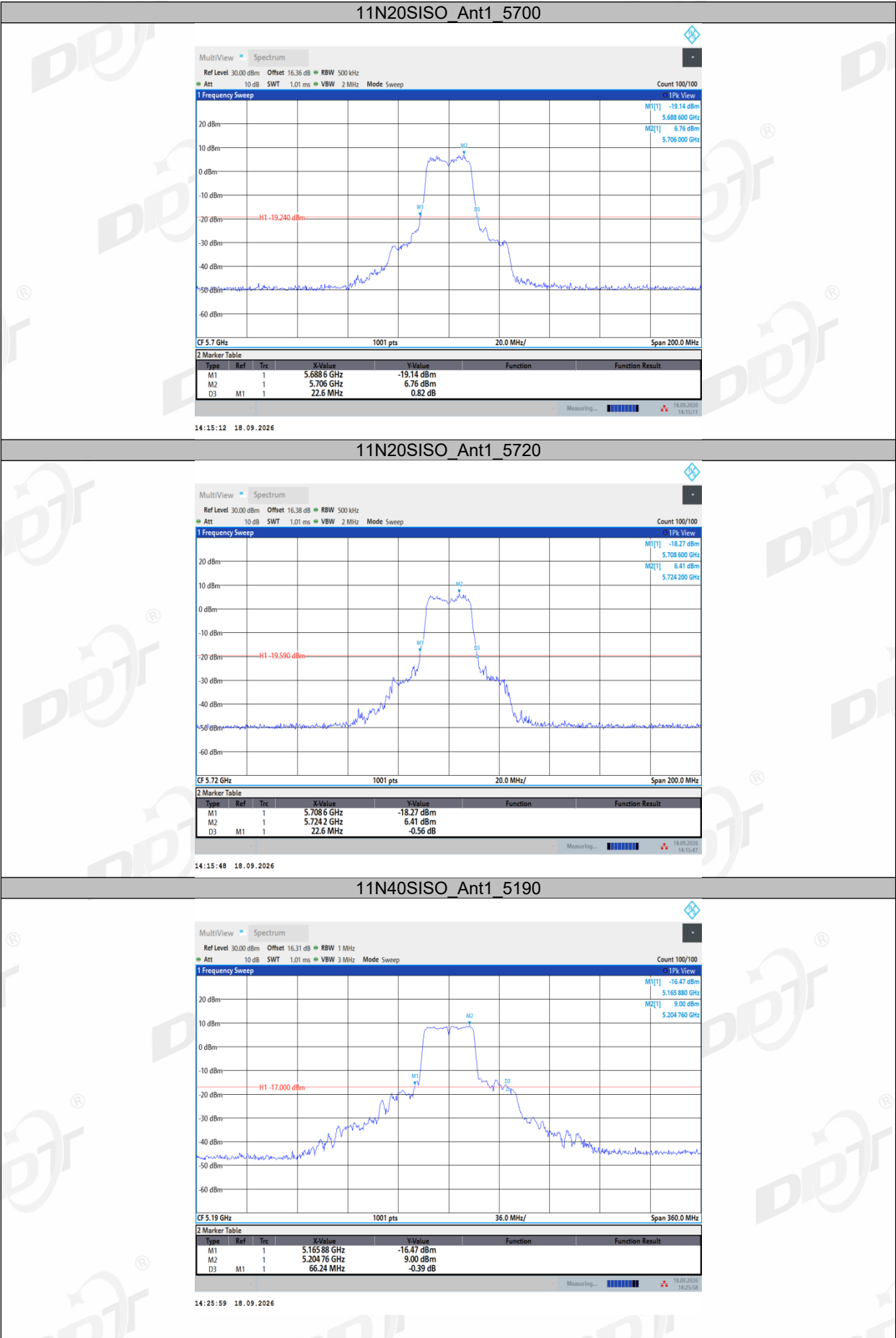


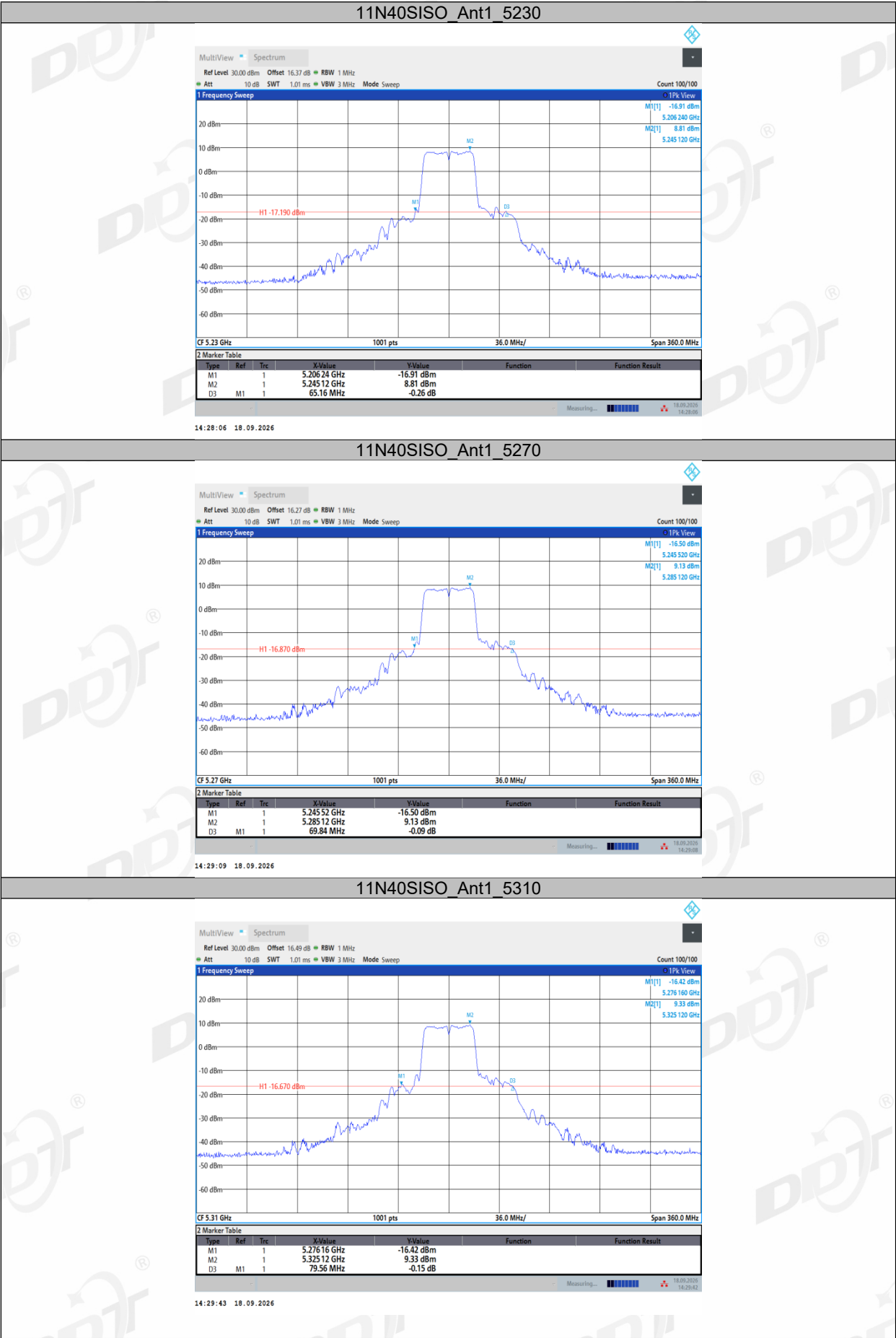


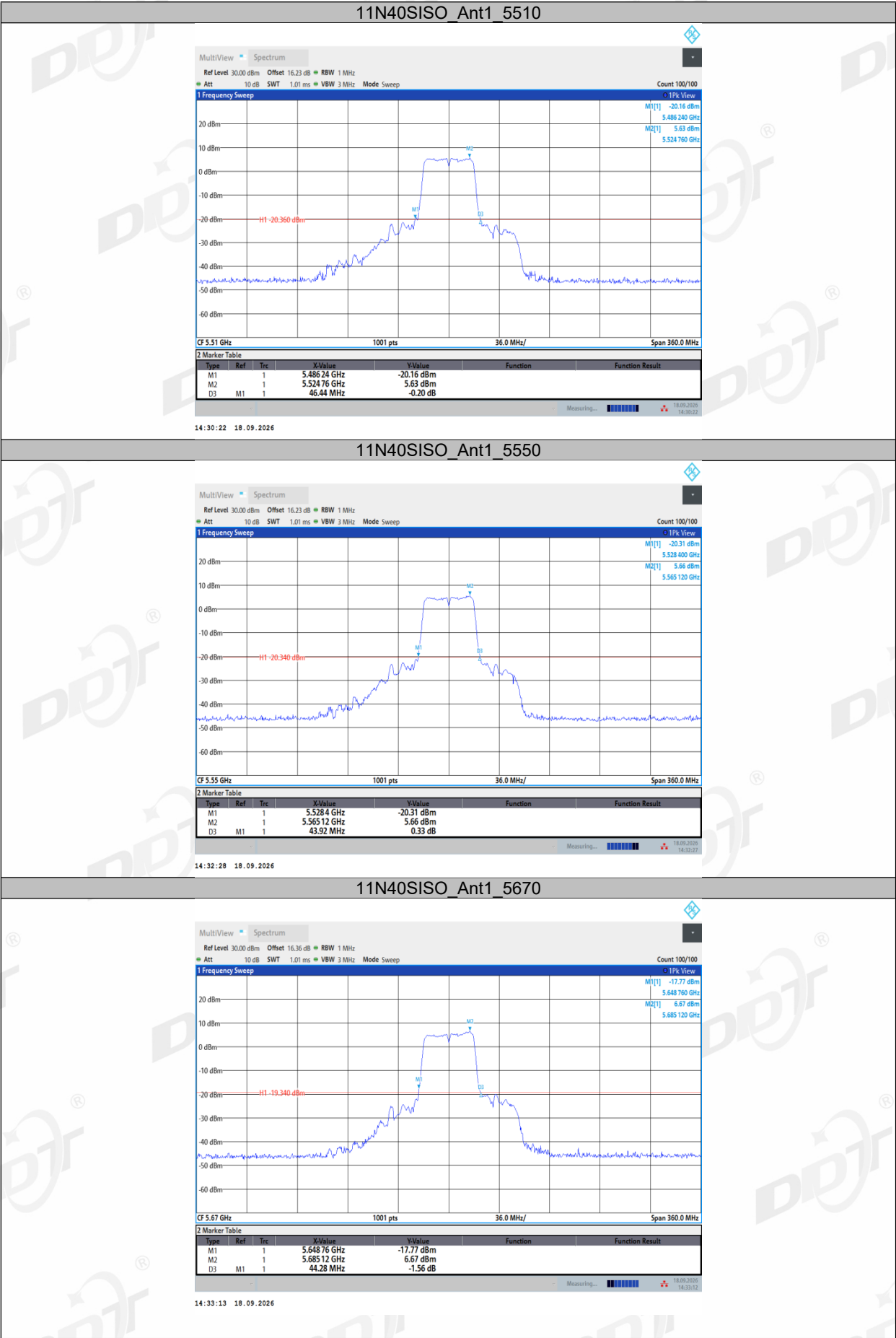


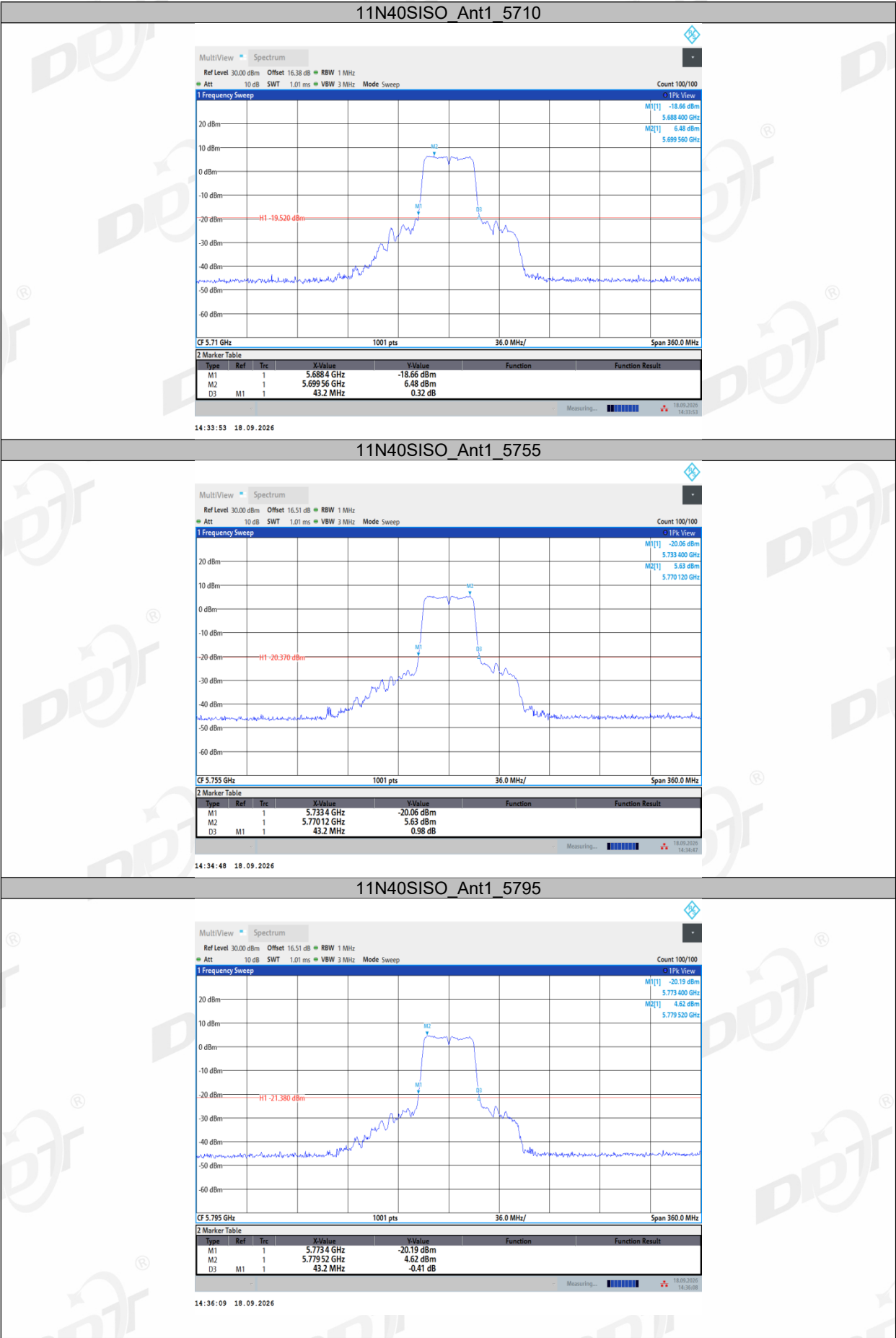


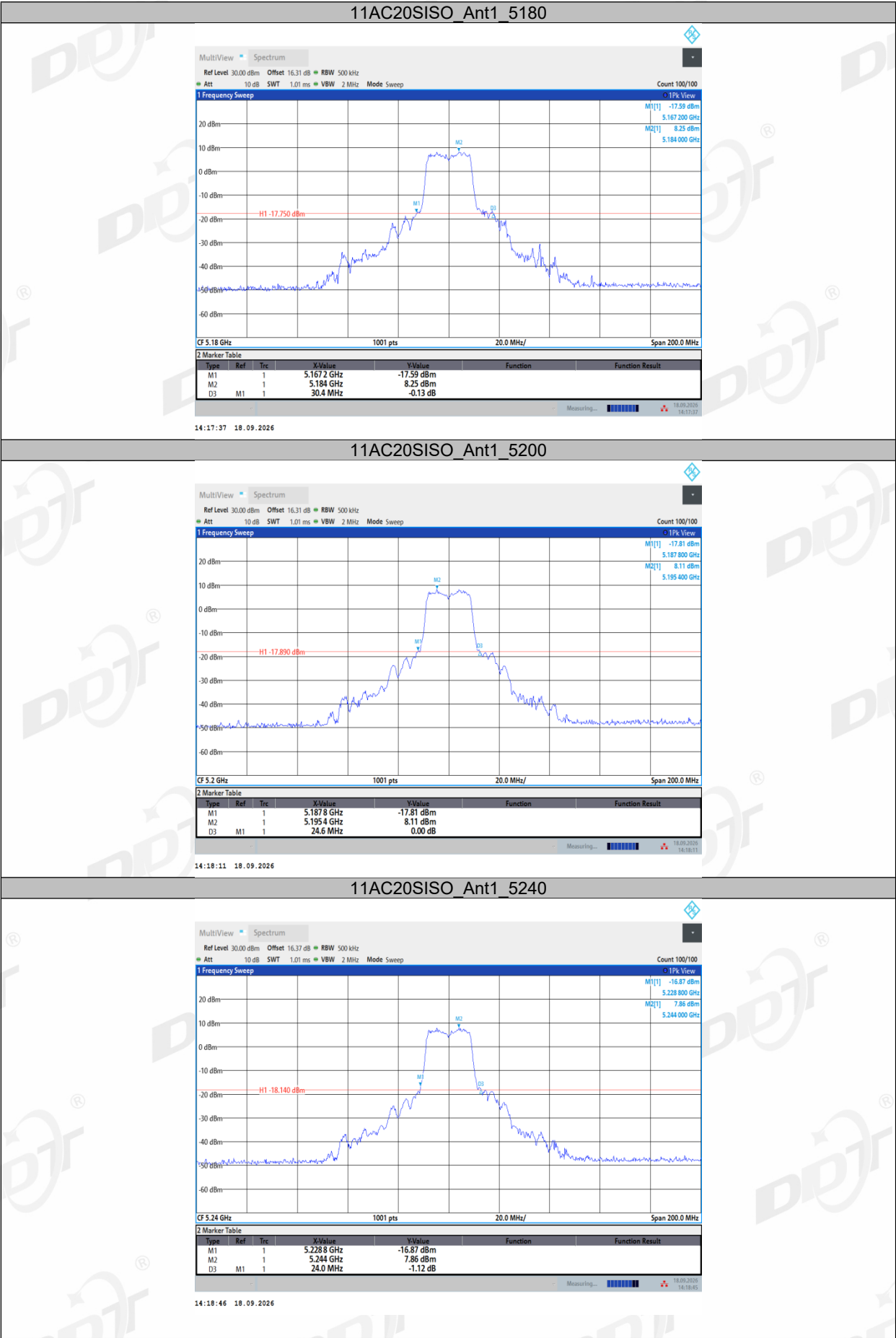


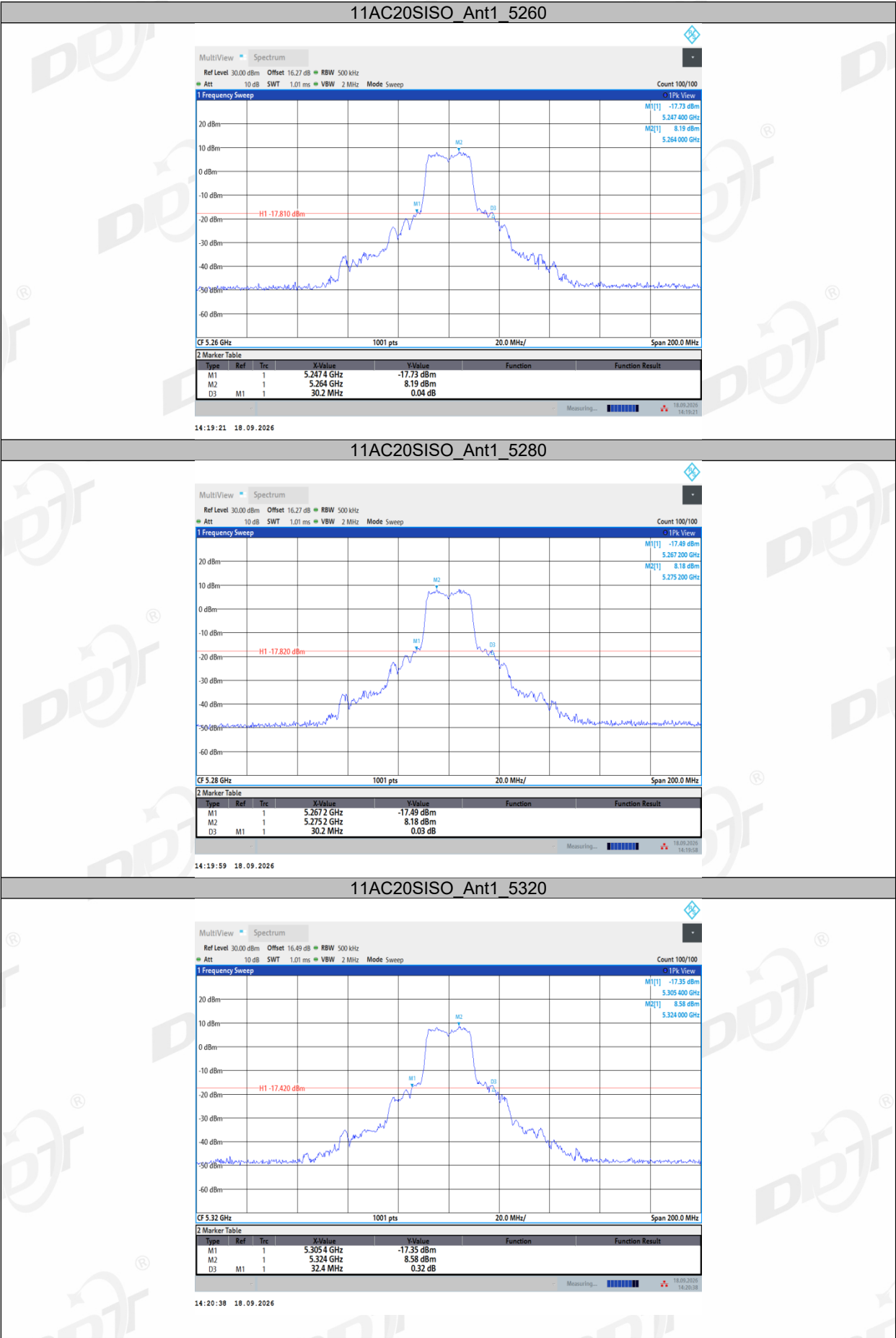


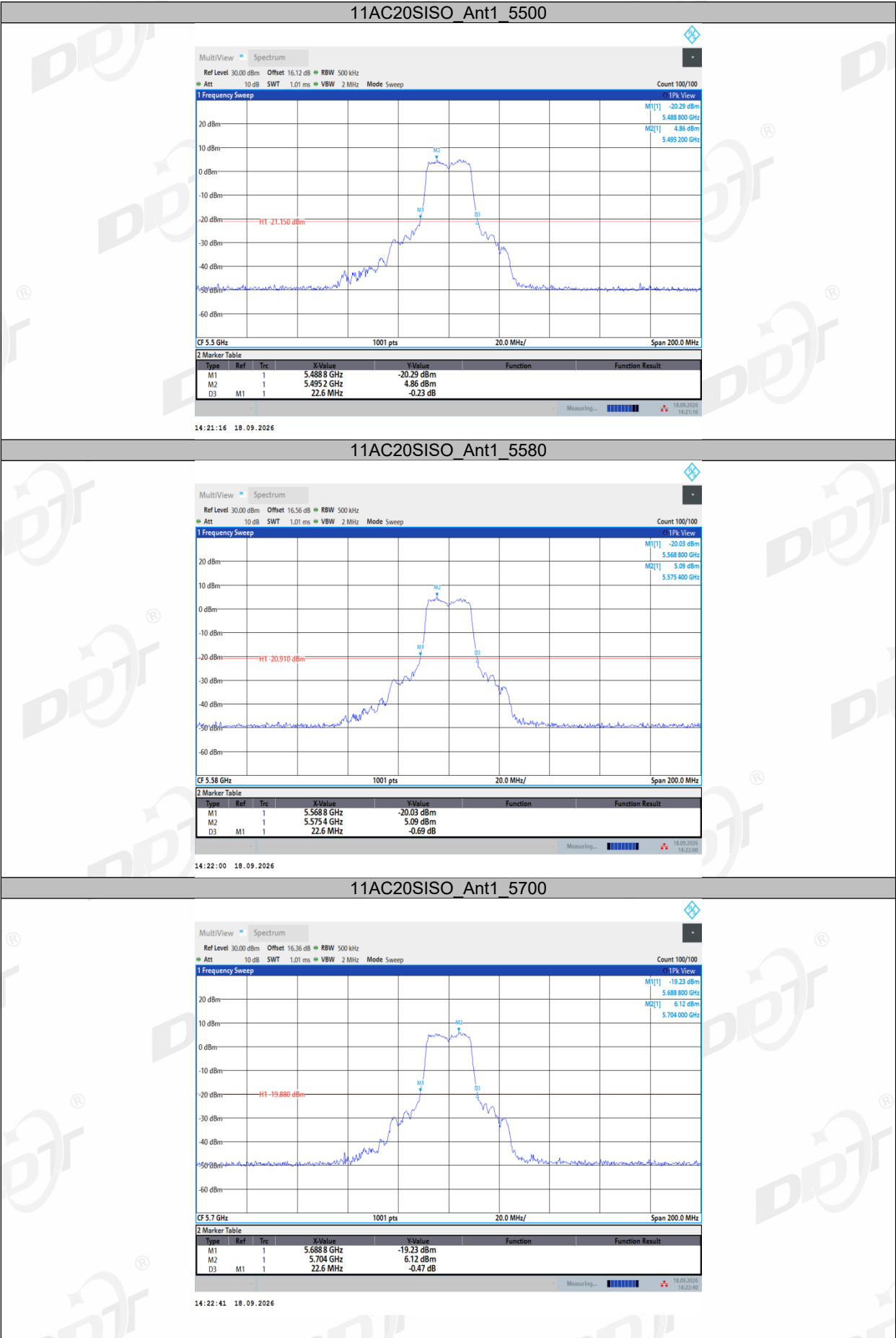


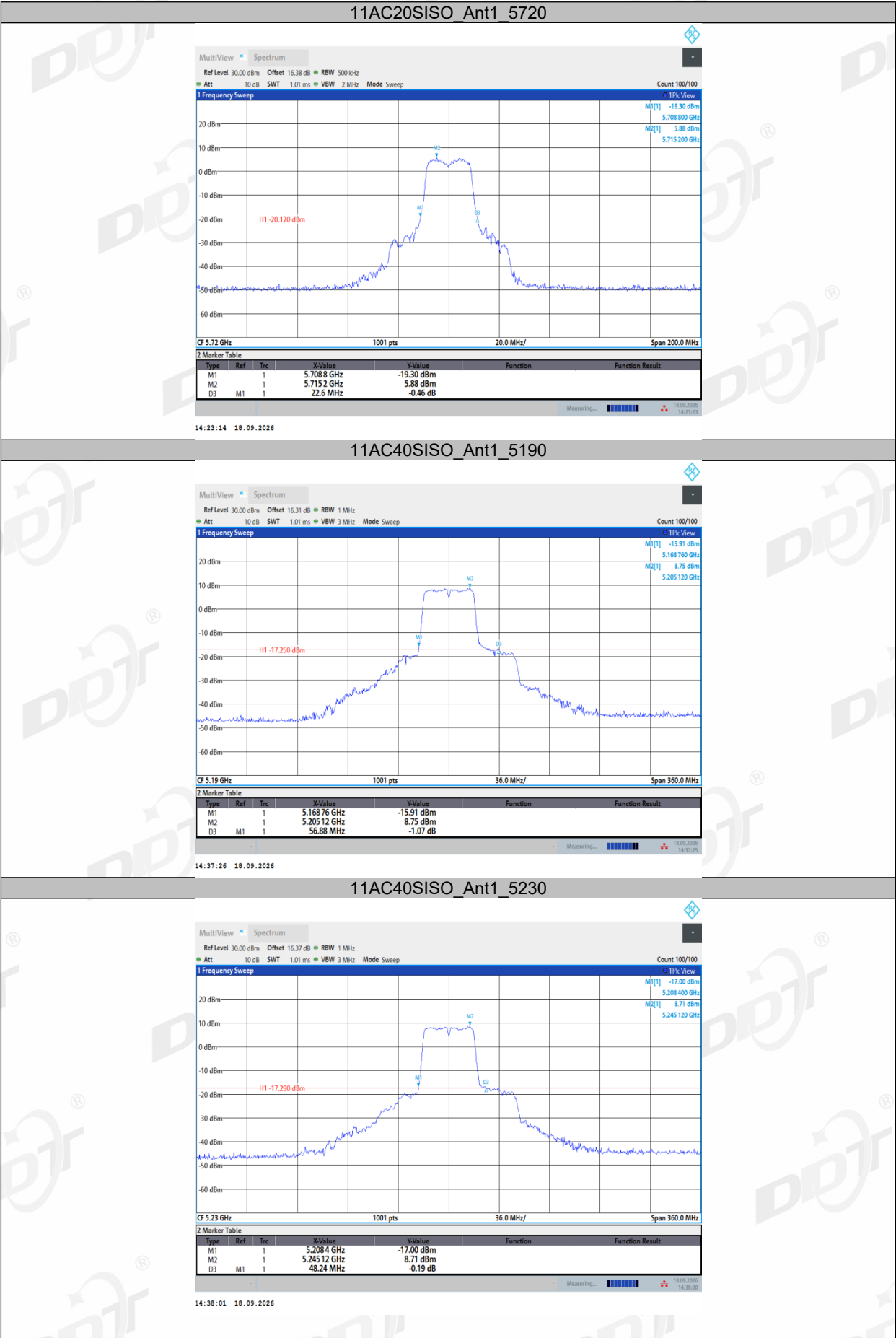


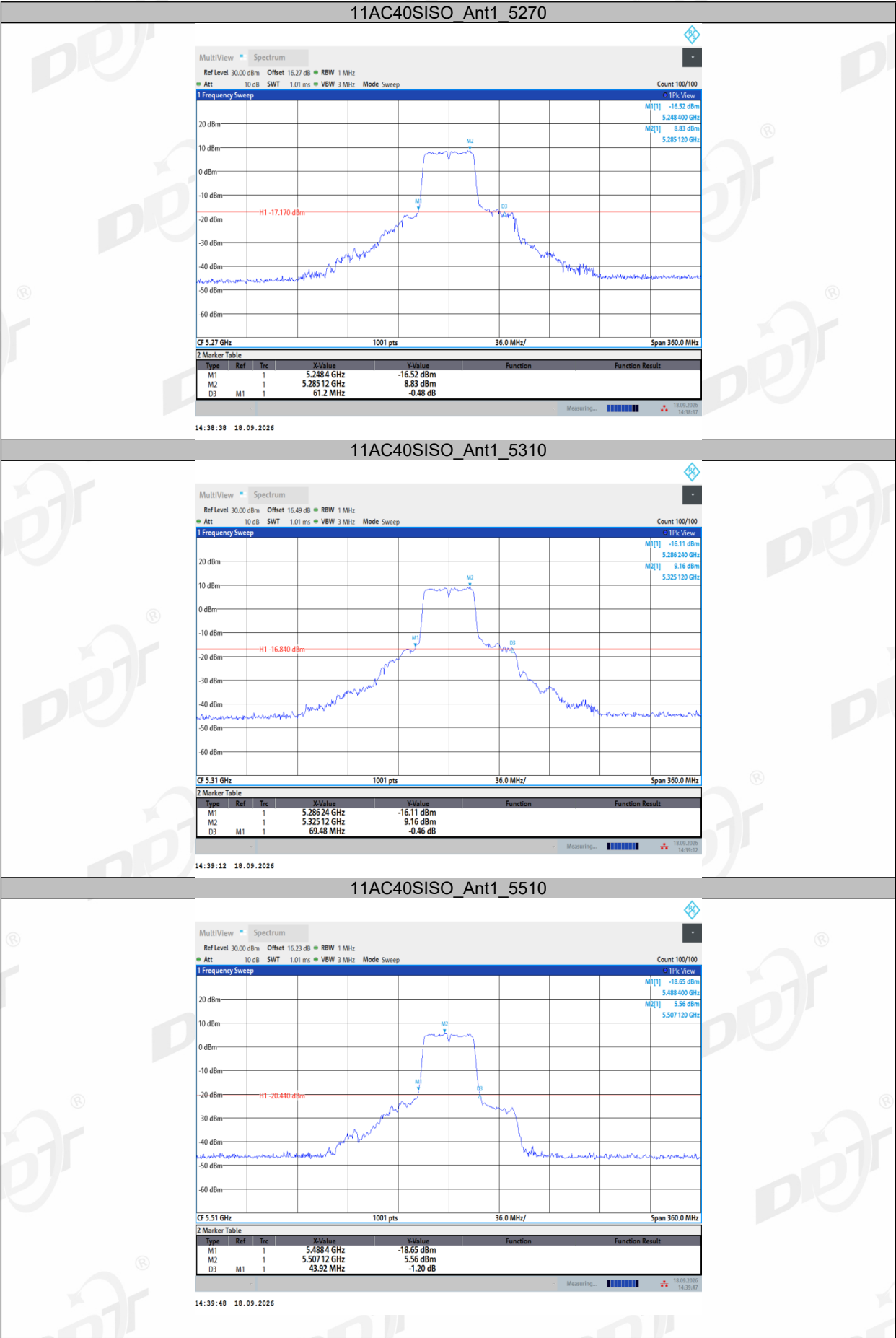


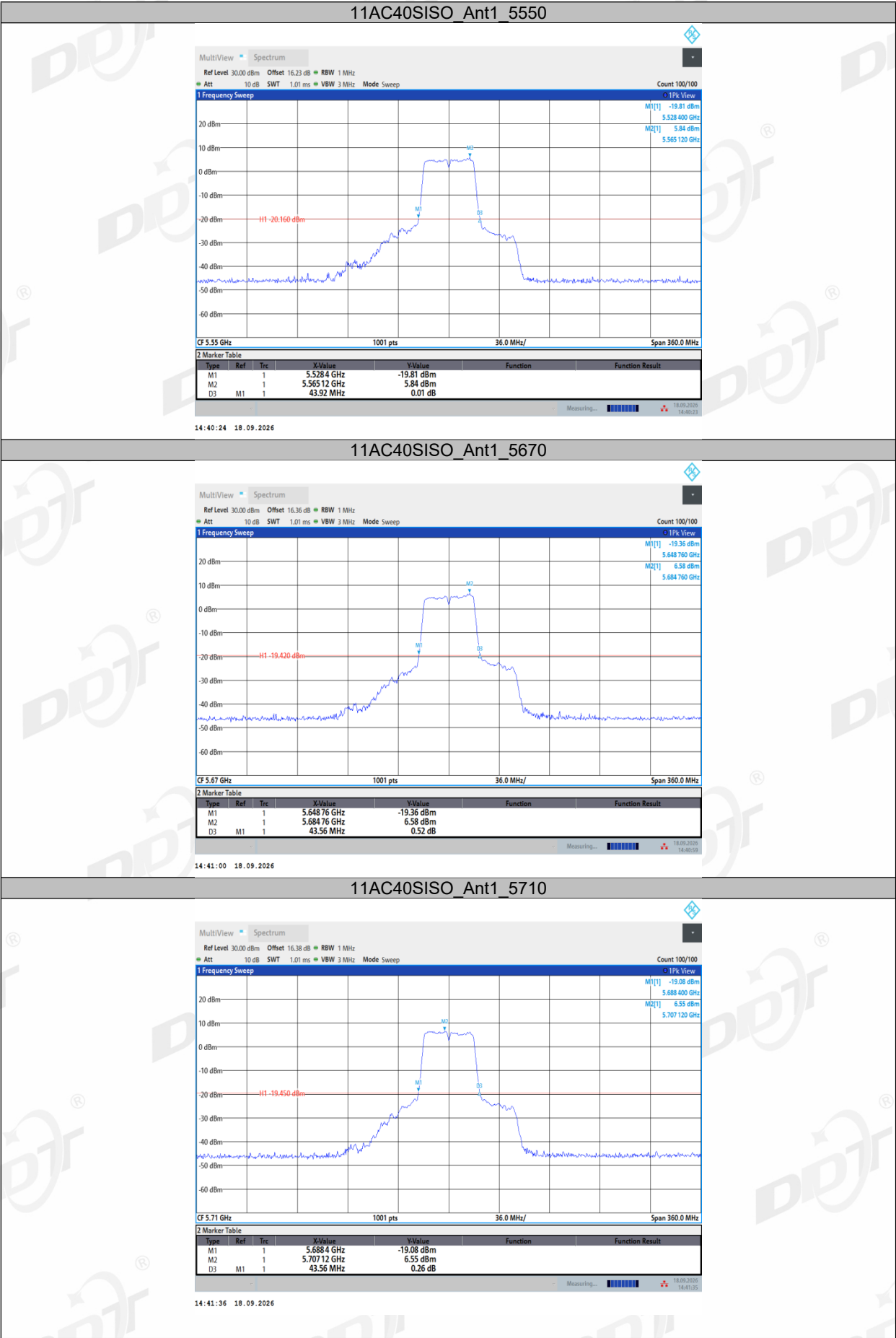


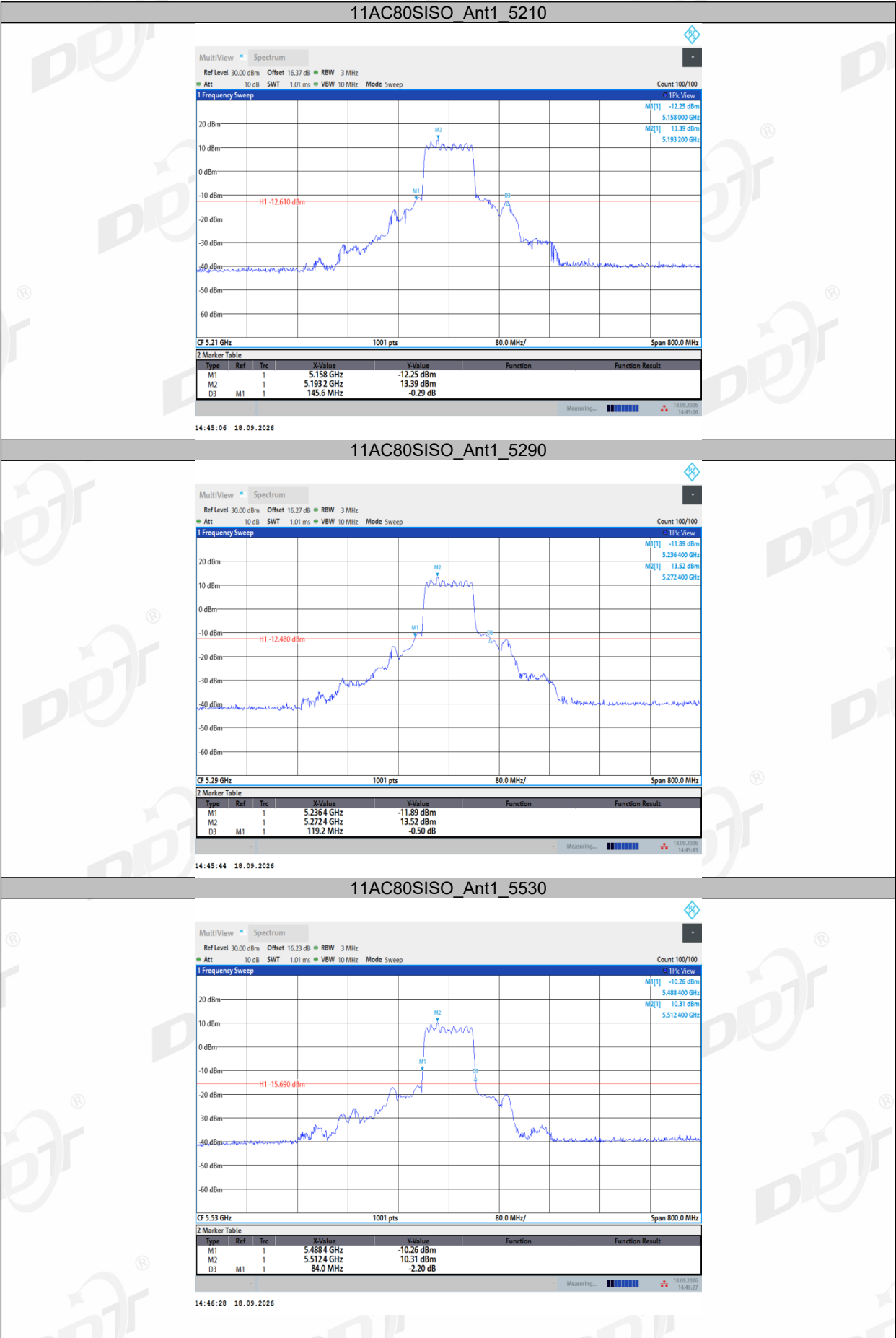


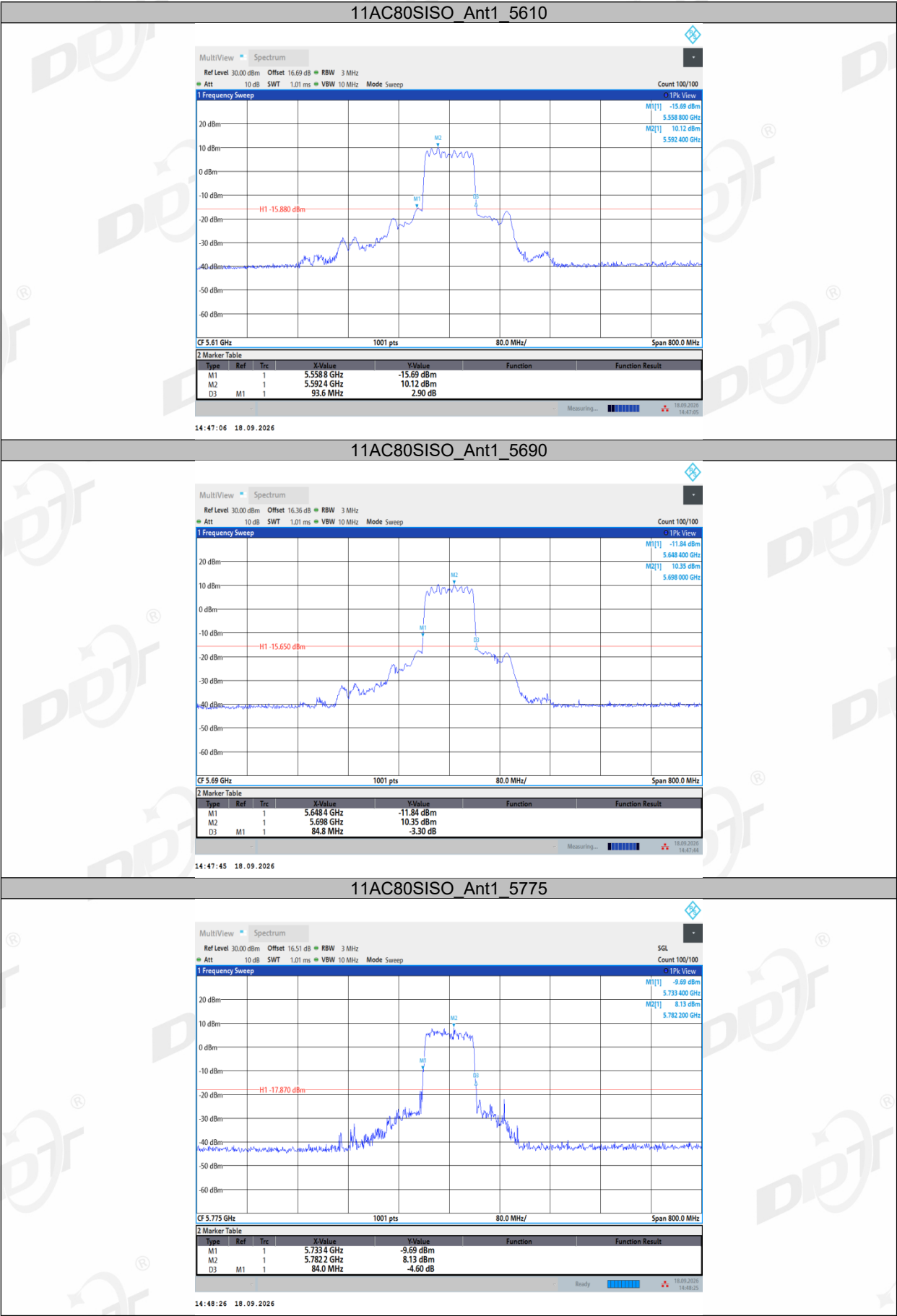






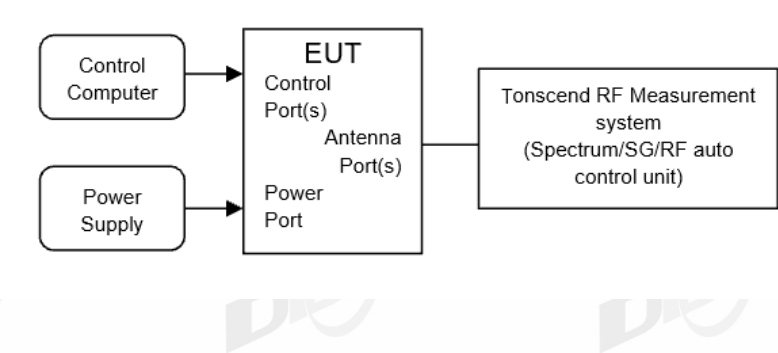






5. 6dB Bandwidth

5.1. Block diagram of test setup



5.2. Limits

FCC Part15, Subpart E/ RSS-247		
Test Item	Limit	Frequency Range (MHz)
6 dB Bandwidth	Minimum 500 kHz	5725 - 5850

5.3. Test procedure

Connect EUT’s antenna output to spectrum analyzer by RF cable.

Center Frequency	The center frequency of the channel under test
Detector	Peak
RBW	For 6 dB Bandwidth: RBW=100 kHz For 26 dB Bandwidth: approximately 1% of the emission bandwidth.
VBW	For 6 dB Bandwidth: VBW=300 kHz For 26 dB Bandwidth: >3 RBW
Trace	Max hold
Sweep	Auto couple

Allow the trace to stabilize, measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4. Test result

Test Engineer:	Huang Yanwen	Test Site:	RF Measurement system 4#
Ambient Condition:	24.6-27.5°C,36.9-48.2%RH	Test Date:	2026.03.01-2026.05.08
Test Power Supply:	DC 12V	Sample Number:	S25120138-006

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.32	5736.80	5753.12	0.5	PASS
		5785	16.32	5776.80	5793.12	0.5	PASS
		5825	16.32	5816.80	5833.12	0.5	PASS
11N20SISO	Ant1	5745	16.96	5736.40	5753.36	0.5	PASS
		5785	16.96	5776.40	5793.36	0.5	PASS
		5825	16.96	5816.40	5833.36	0.5	PASS
11N40SISO	Ant1	5755	35.36	5737.24	5772.60	0.5	PASS
		5795	35.68	5777.24	5812.92	0.5	PASS
11AC20SISO	Ant1	5745	16.96	5736.40	5753.36	0.5	PASS
		5785	16.96	5776.40	5793.36	0.5	PASS
		5825	16.96	5816.40	5833.36	0.5	PASS
11AC40SISO	Ant1	5755	35.44	5737.16	5772.60	0.5	PASS
		5795	35.76	5777.16	5812.92	0.5	PASS
11AC80SISO	Ant1	5775	75.20	5737.40	5812.60	0.5	PASS

5.5. Test graphs



