



FCC RF Test Report

APPLICANT : Ring LLC
EQUIPMENT : Ring Intercom Premium
BRAND NAME : ring
MODEL NAME : 5NCEAB
FCC ID : 2AEUPBHART021
STANDARD : FCC Part 15 Subpart C §15.247
CLASSIFICATION : (DTS) Digital Transmission System
TEST DATE(S) : May 09, 2025 ~ May 31, 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.

Fly Liang

Approved by: Fly Liang



Sporton International Inc. (ShenZhen)

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People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR4D2607-01	Rev. 01	Initial issue of report	Jun. 16, 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)	Power Output Measurement	$\leq 30\text{dBm}$	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 3.41 dB at 2484.080 MHz
-	15.207	AC Conducted Emission	15.207(a)	Not Required	-
3.6	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Note: Not required means after assessing, test items are not necessary to carry out.

Conformity Assessment Condition:

- 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.
- 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

Ring LLC

12515 Cerise Ave, Hawthorne, CA 90250, USA

1.2 Manufacturer

Ring LLC

12515 Cerise Ave, Hawthorne, CA 90250, USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Ring Intercom Premium
Model Name	5NCEAB
Brand Name	ring
FCC ID	2AEUPBHART021
SN Code	Conducted: G074AK025165009L Radiation: G074AK025163004Q
EUT Stage	Identical Prototype

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 ~ 2472 MHz
Maximum (Peak) Output Power to antenna	802.11b : 21.20 dBm (0.1318 W) 802.11g : 25.44 dBm (0.3499 W) 802.11n HT20 : 24.72 dBm (0.2965 W)
99% Occupied Bandwidth	802.11b : 14.36 MHz 802.11g : 16.86 MHz 802.11n HT20 : 17.64 MHz
Antenna Type / Gain	PIFA Antenna with gain 2.5 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

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 03CH03-SZ	CN1256	421272

1.7 Test Software

Item	Site	Manufacturer	Name	Version
1.	03CH03-SZ	AUDIX	E3	6.2009-8-24

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
- ANSI C63.10-2013

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

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 (X plane) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	8	2447
	2	2417	9	2452
	3	2422	10	2457
	4	2427	11	2462
	5	2432	12	2467
	6	2437	13	2472
	7	2442	-	-

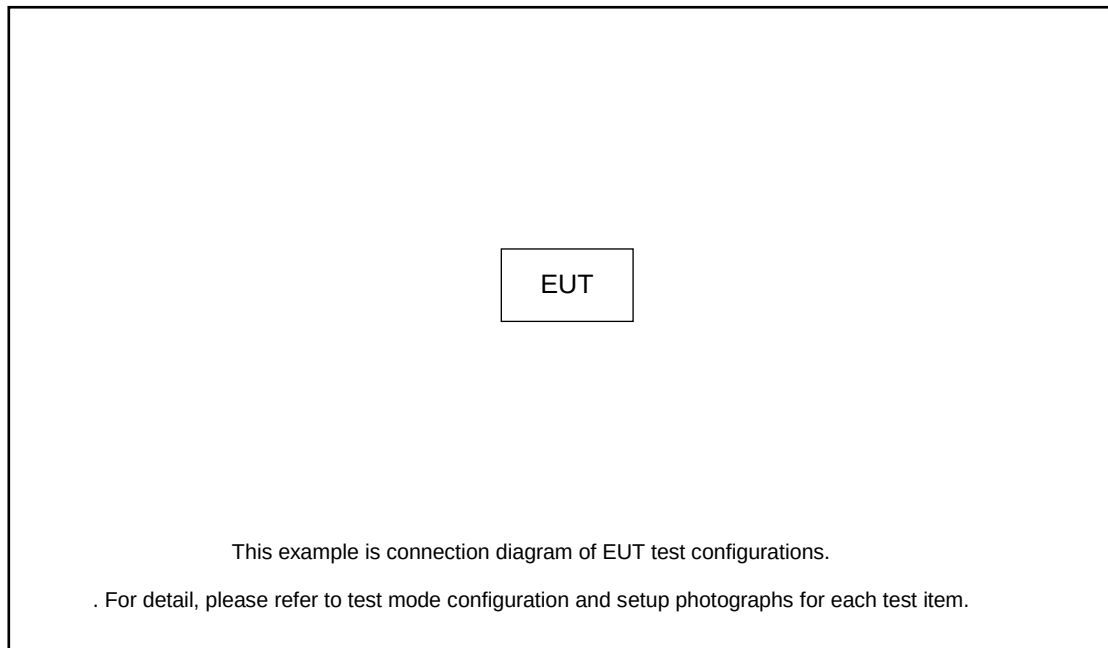
2.2 Test Mode

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

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

2.3 Connection Diagram of Test System

Radiated Emission:



2.4 EUT Operation Test Setup

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

2.5 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 1.30 dB and 10dB attenuator.

$$\begin{aligned}\text{Offset(dB)} &= \text{RF cable loss(dB)} + \text{attenuator factor(dB)} \\ &= 1.30 + 10 = 11.30 \text{ (dB)}\end{aligned}$$

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.

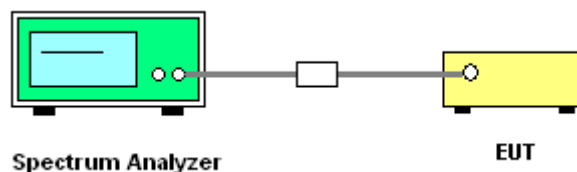
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.8
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) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. 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) = 3MHz.
6. Measure and record the results in the test report.

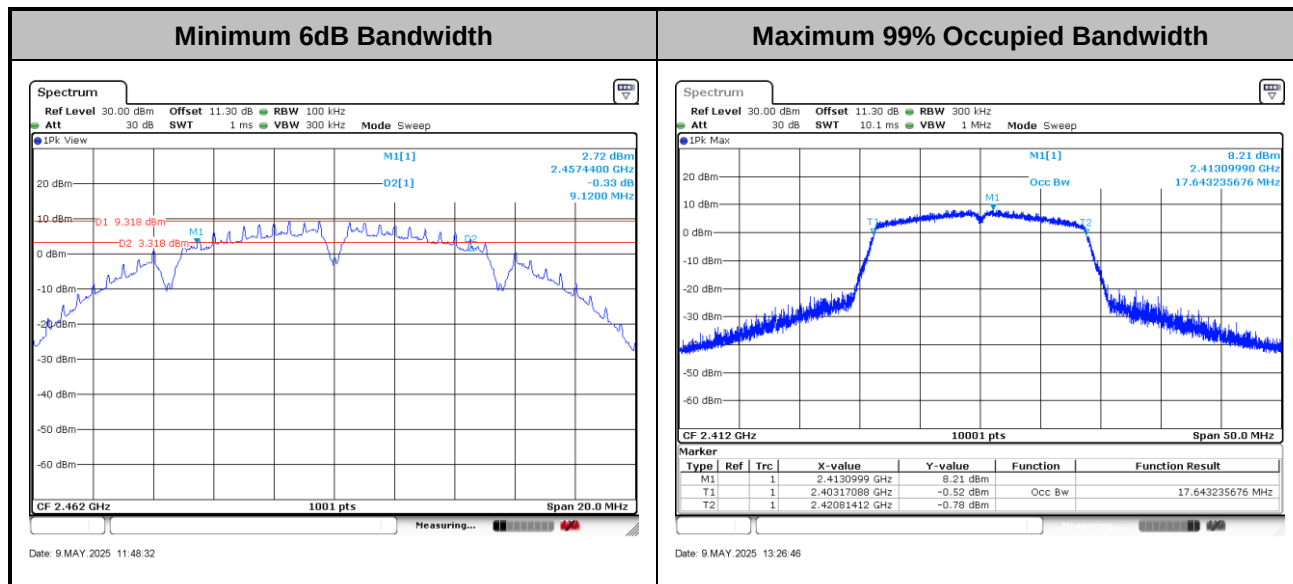
3.1.4 Test Setup





3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.



Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

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 peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak 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.

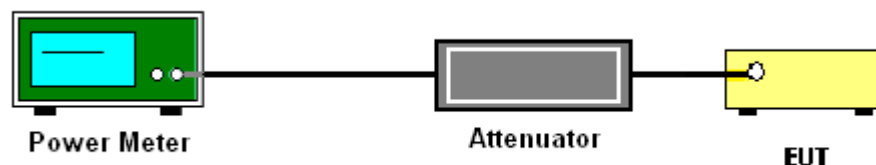
3.2.2 Measuring Instruments

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 C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 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.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average Output Power (Reporting Only)

Please refer to Appendix A.

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.

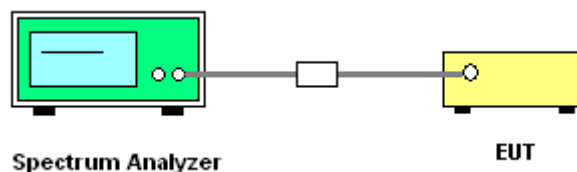
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

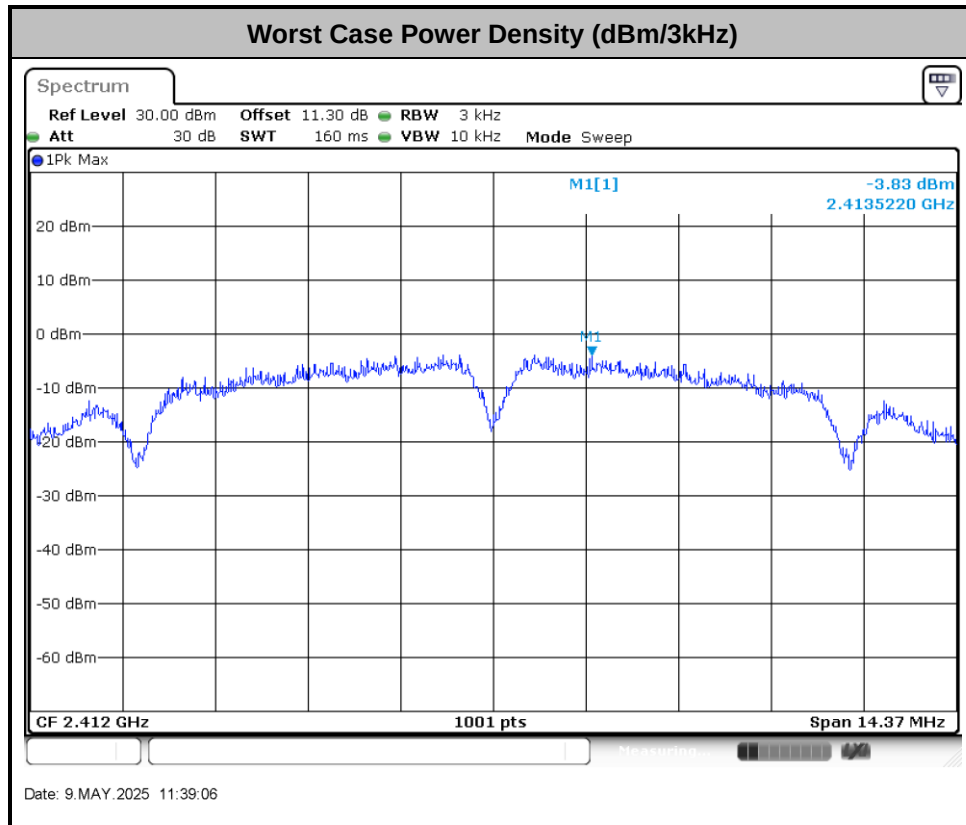
1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the 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.

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.

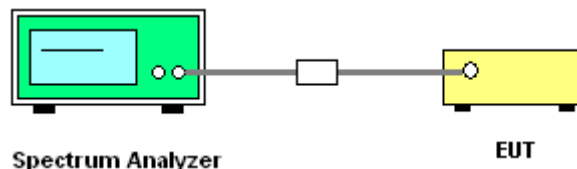
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.11
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

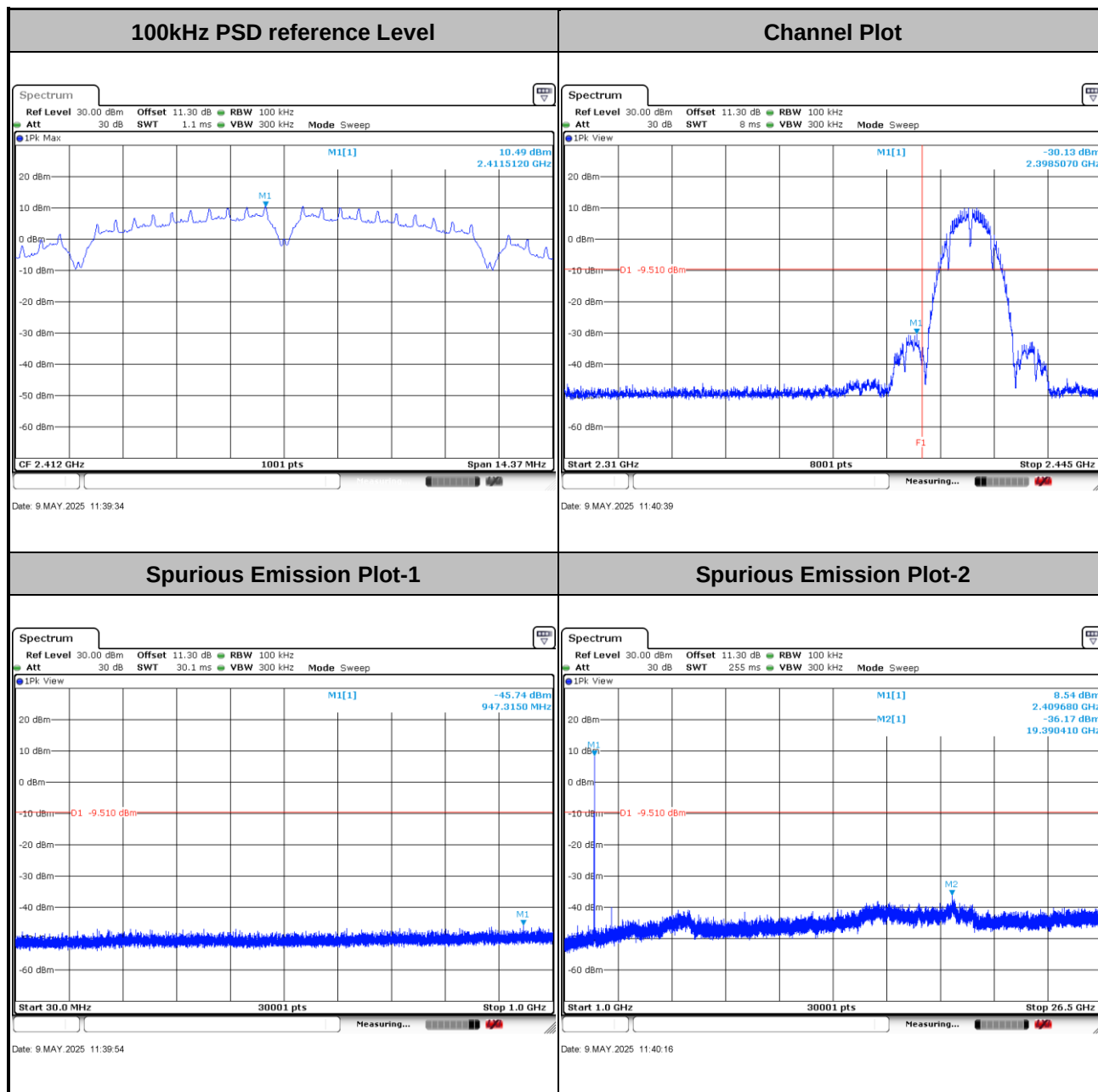


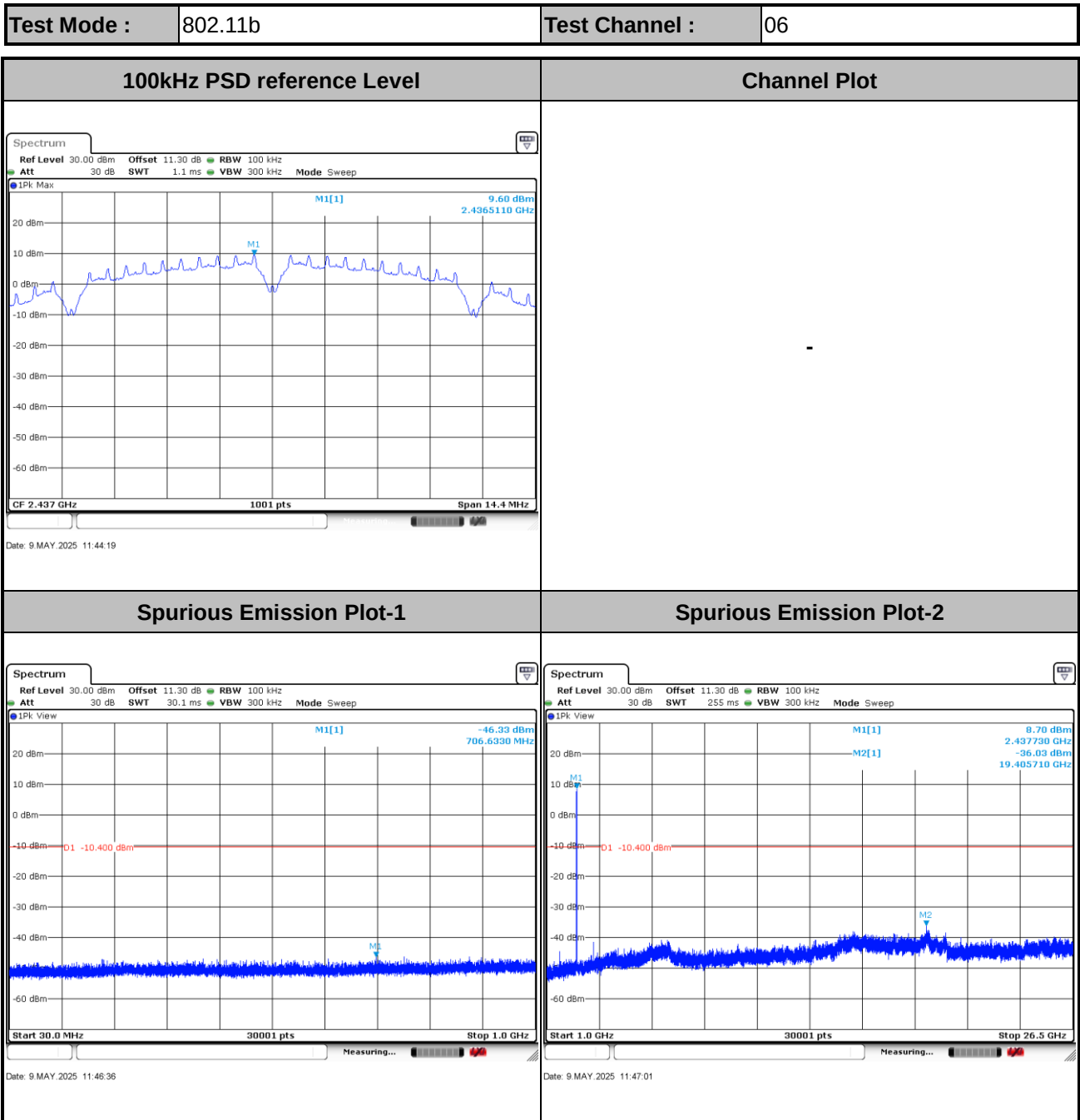


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

Test Engineer :	Sam Zheng	Temperature :	24~26°C
		Relative Humidity :	50~53%

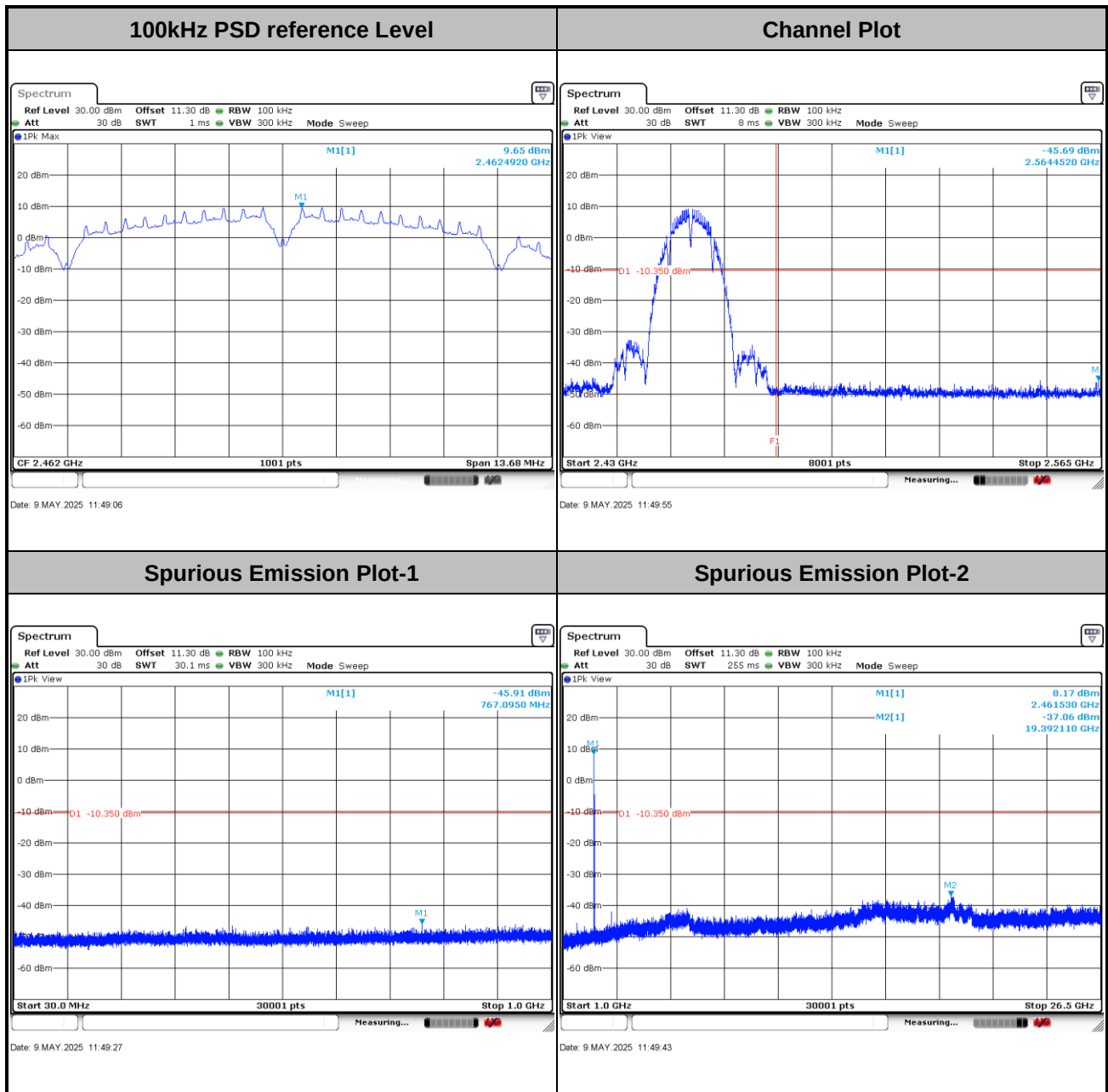
Test Mode :	802.11b	Test Channel :	01
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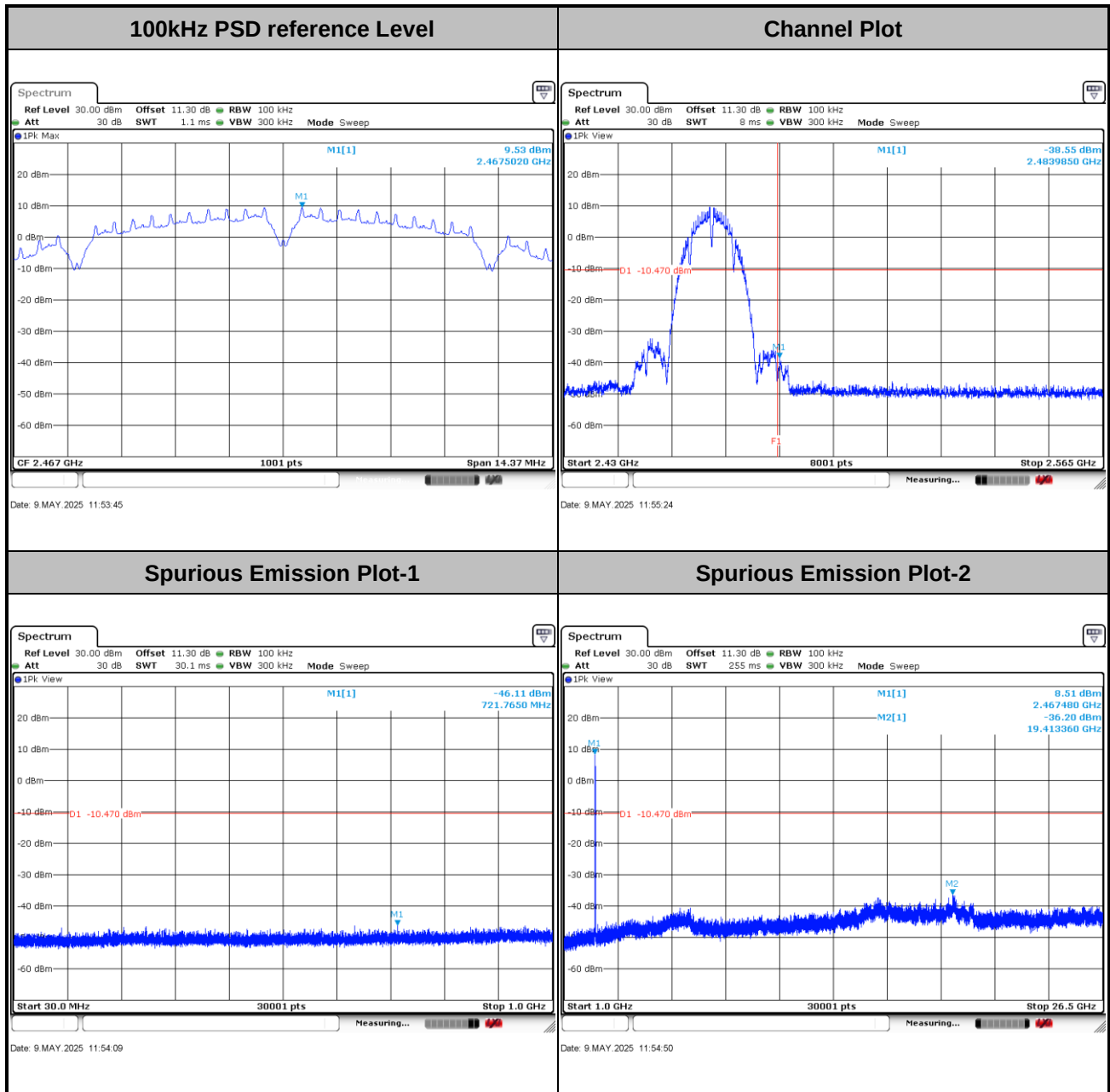


Test Mode :	802.11b	Test Channel :	11
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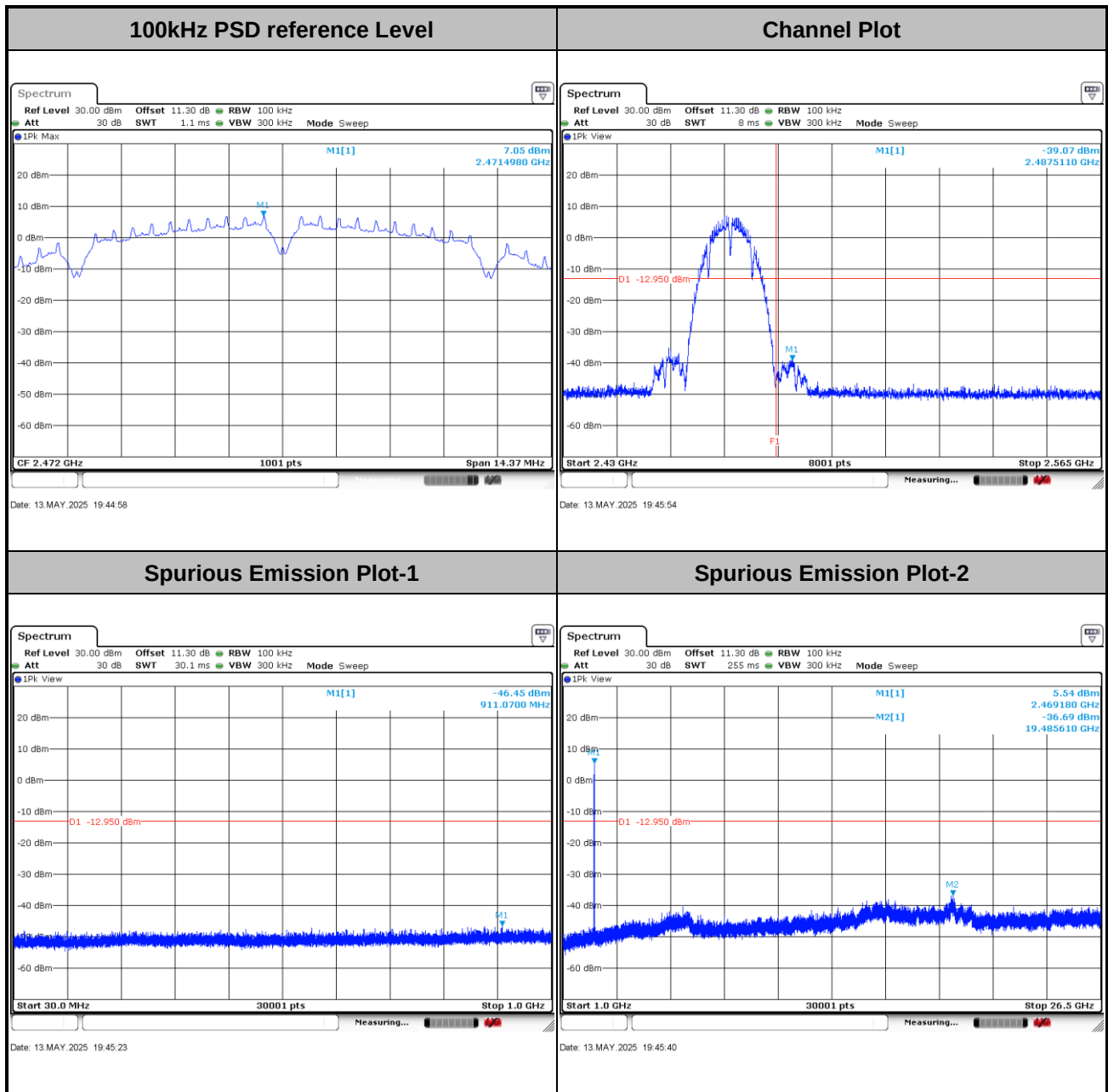


Test Mode :	802.11b	Test Channel :	12
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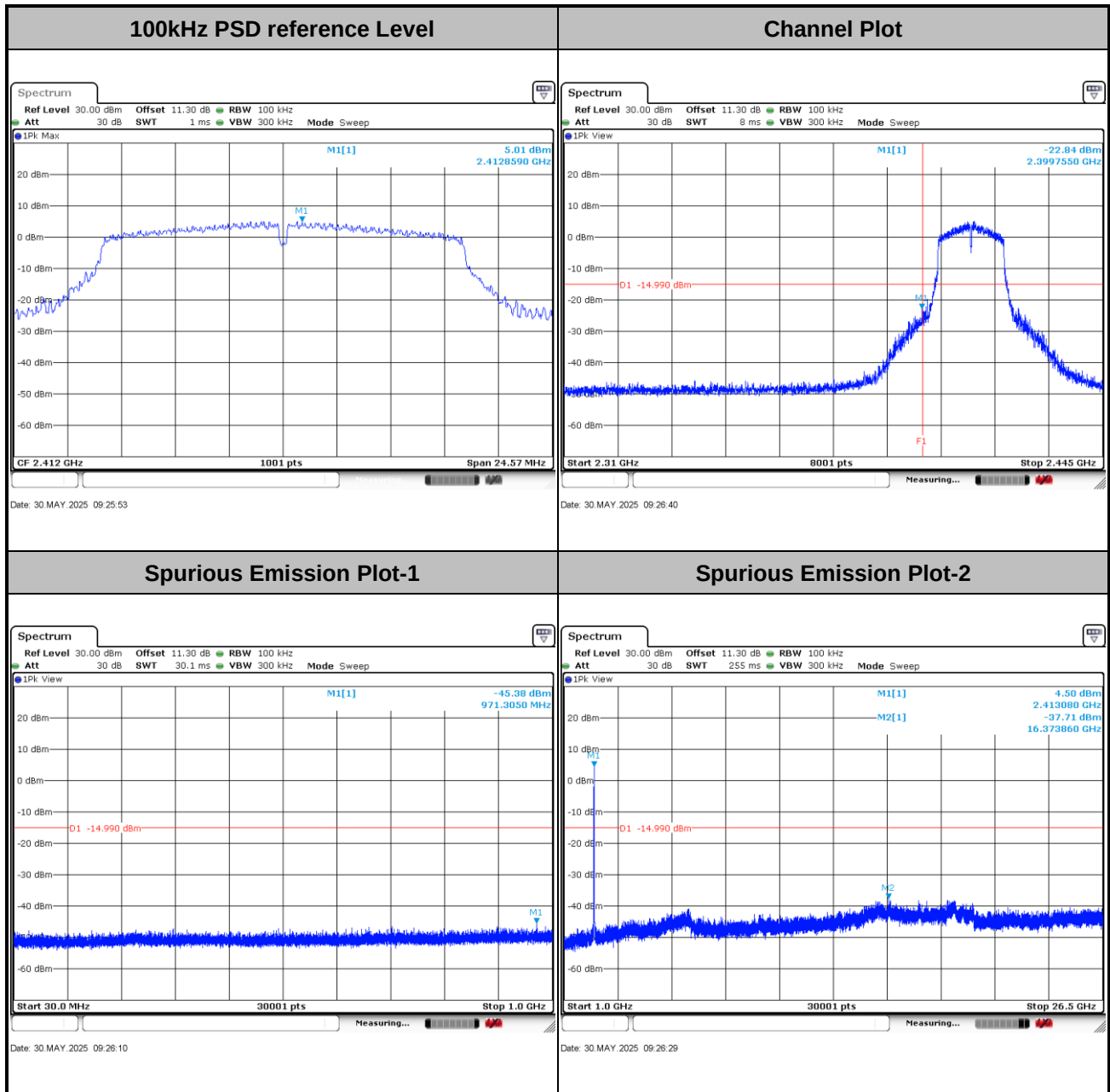


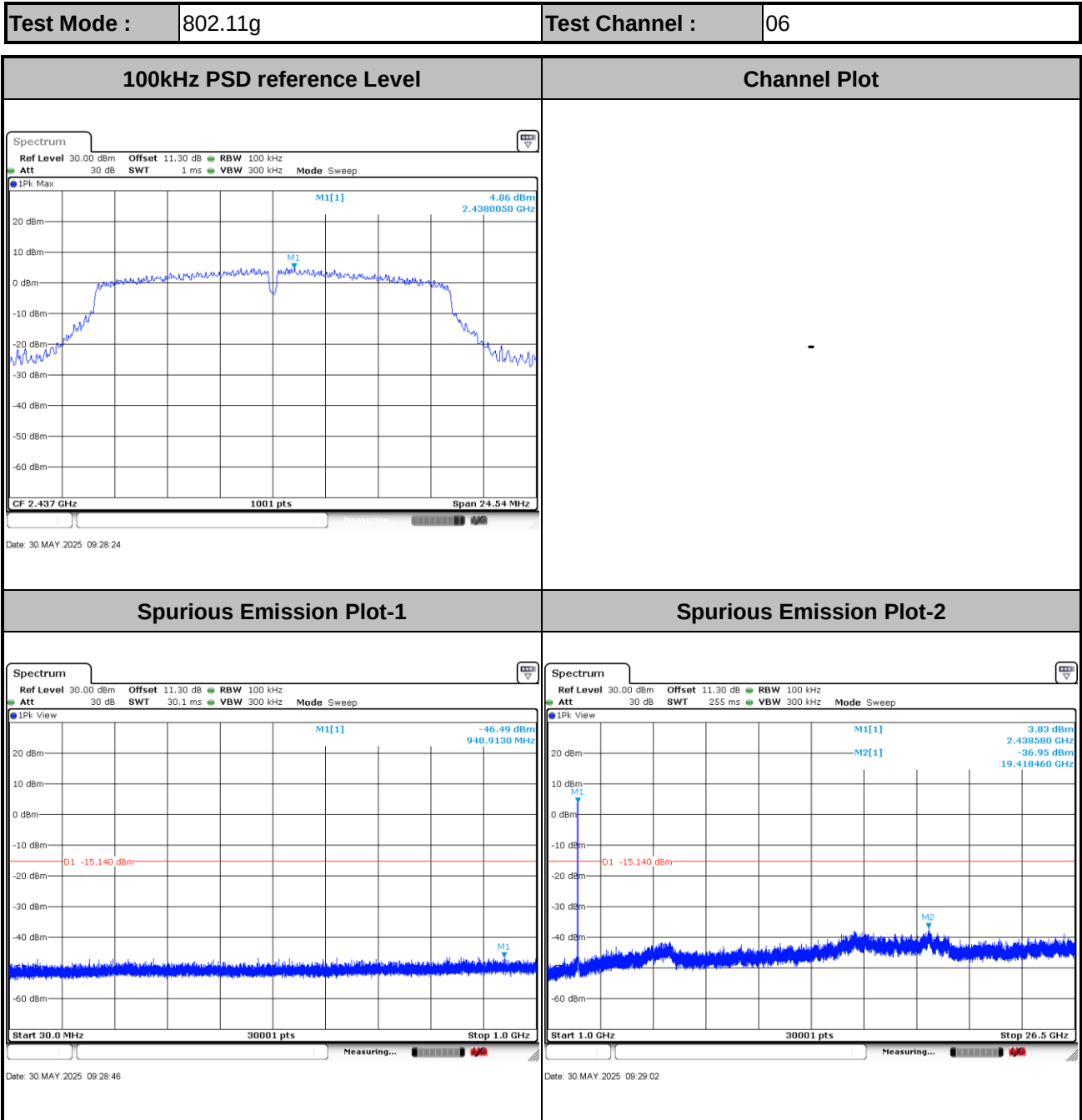
Test Mode :	802.11b	Test Channel :	13
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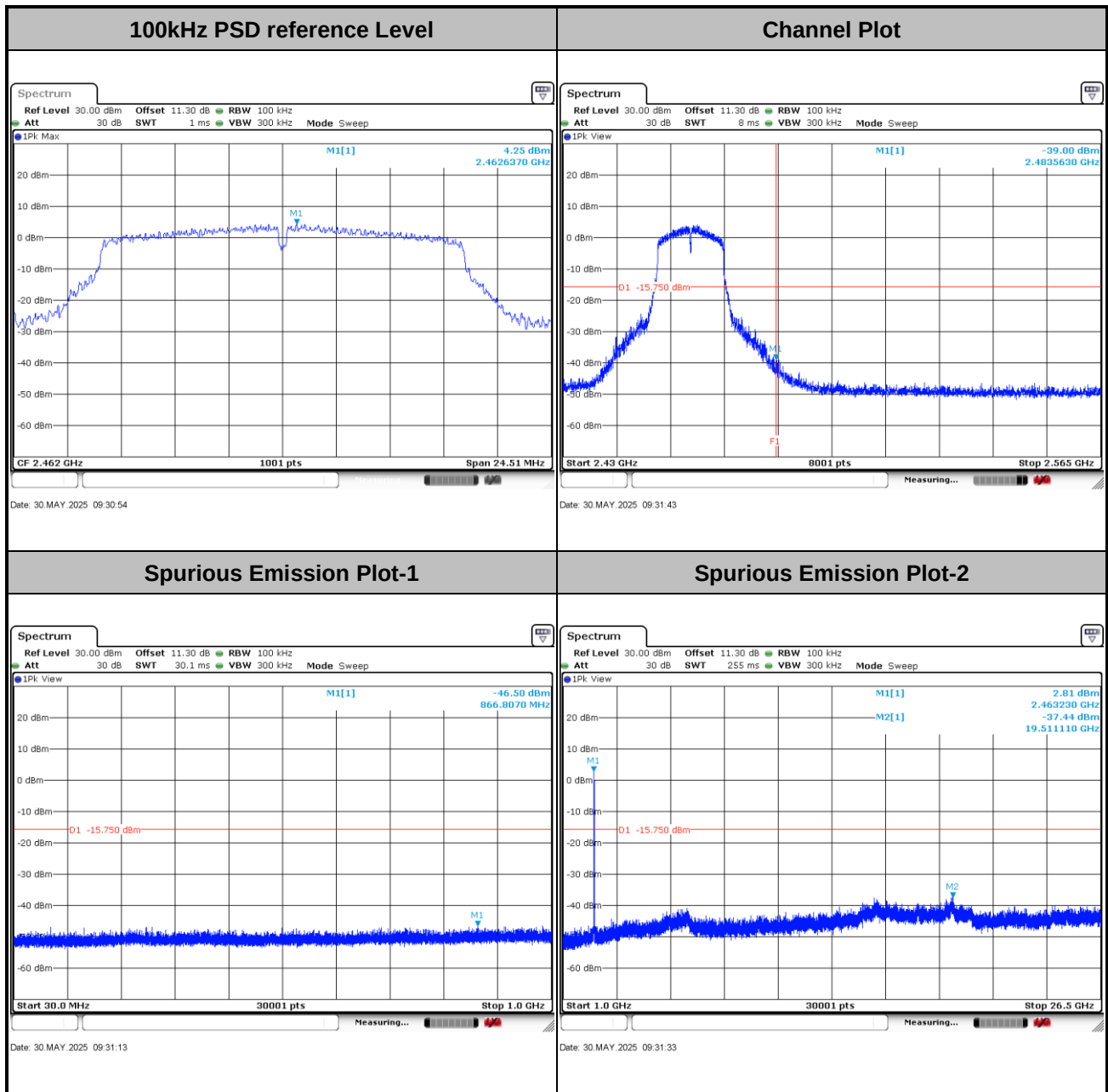
Test Mode :	802.11g	Test Channel :	01
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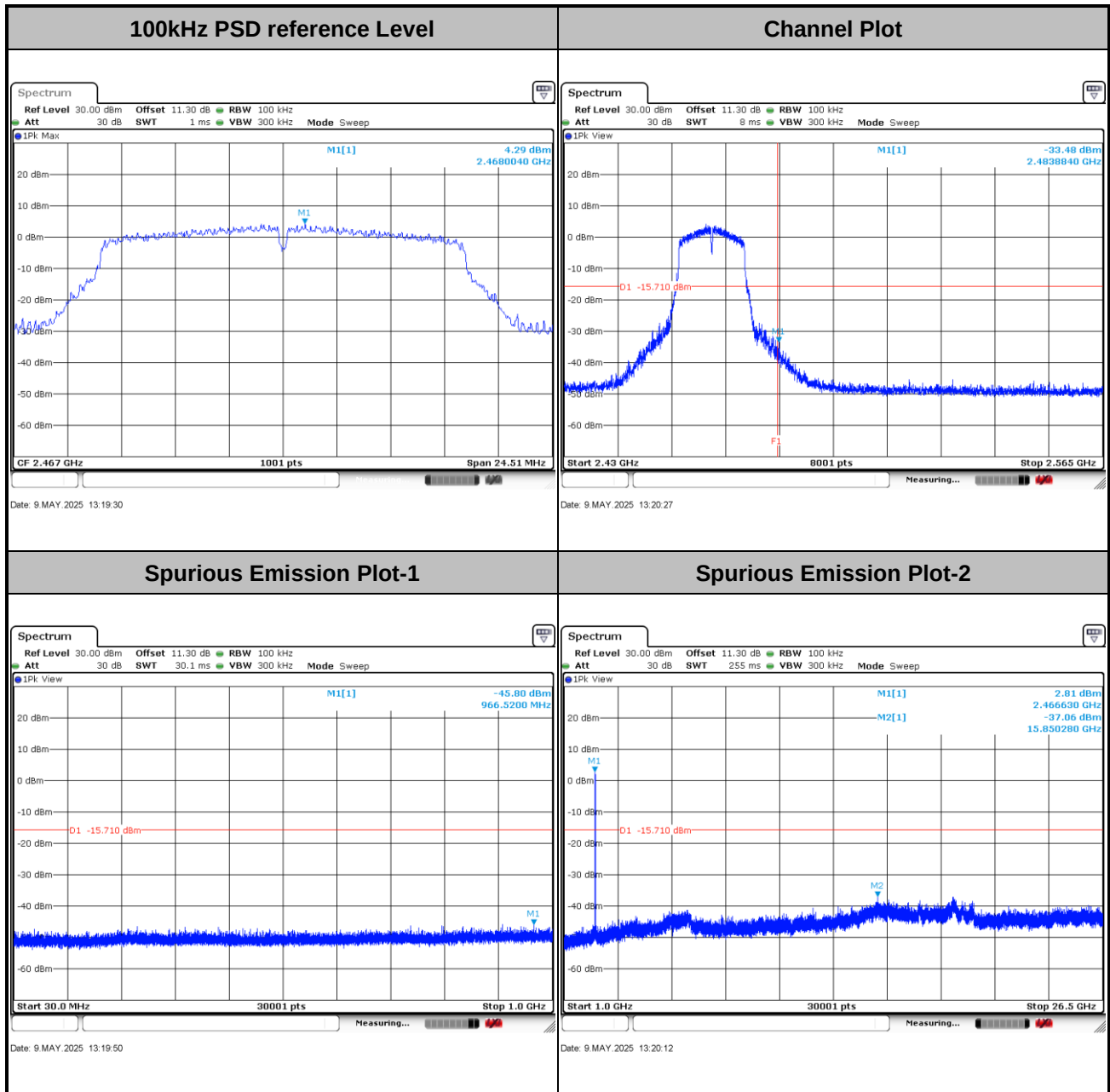


Test Mode :	802.11g	Test Channel :	11
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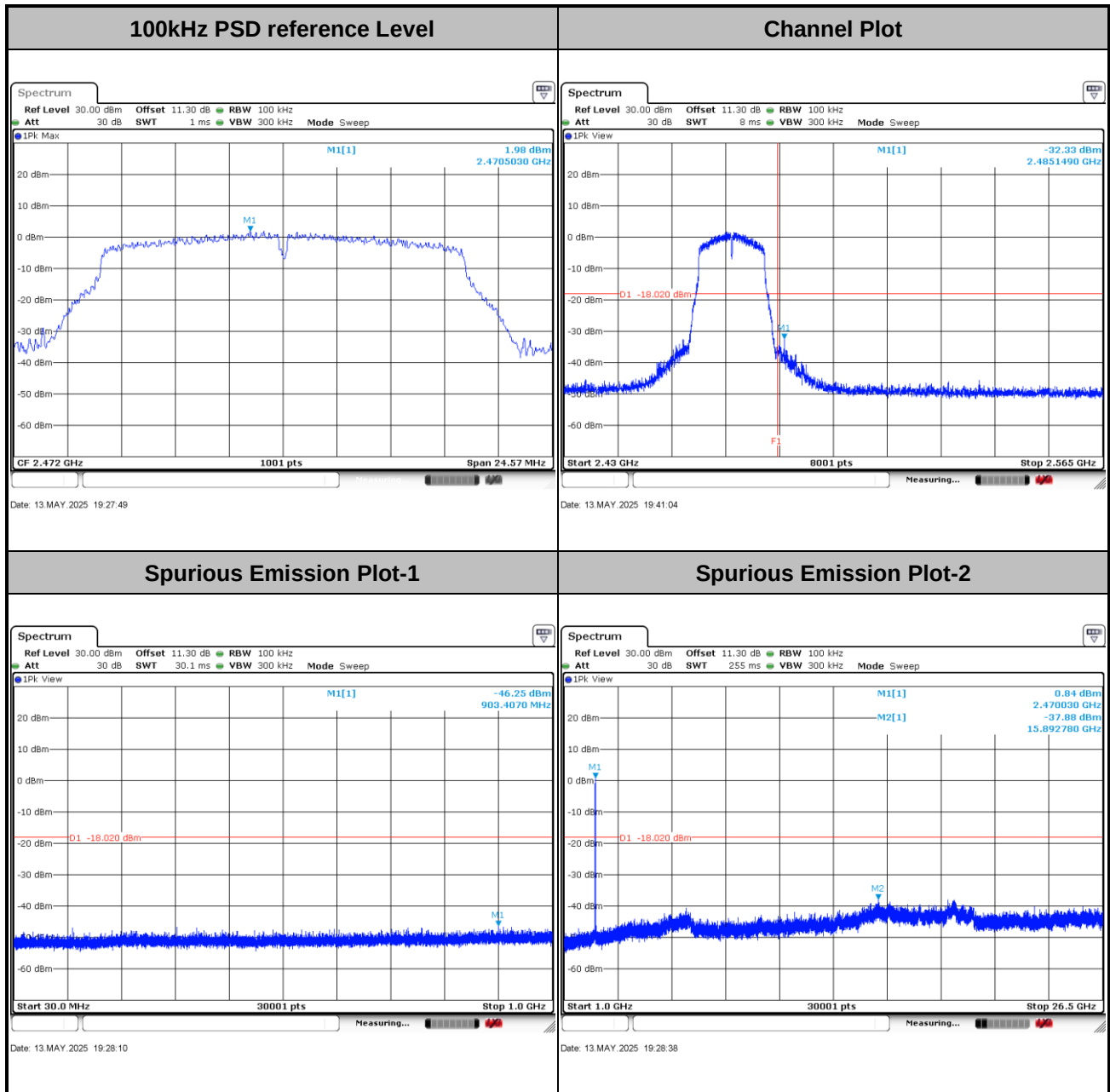


Test Mode :	802.11g	Test Channel :	12
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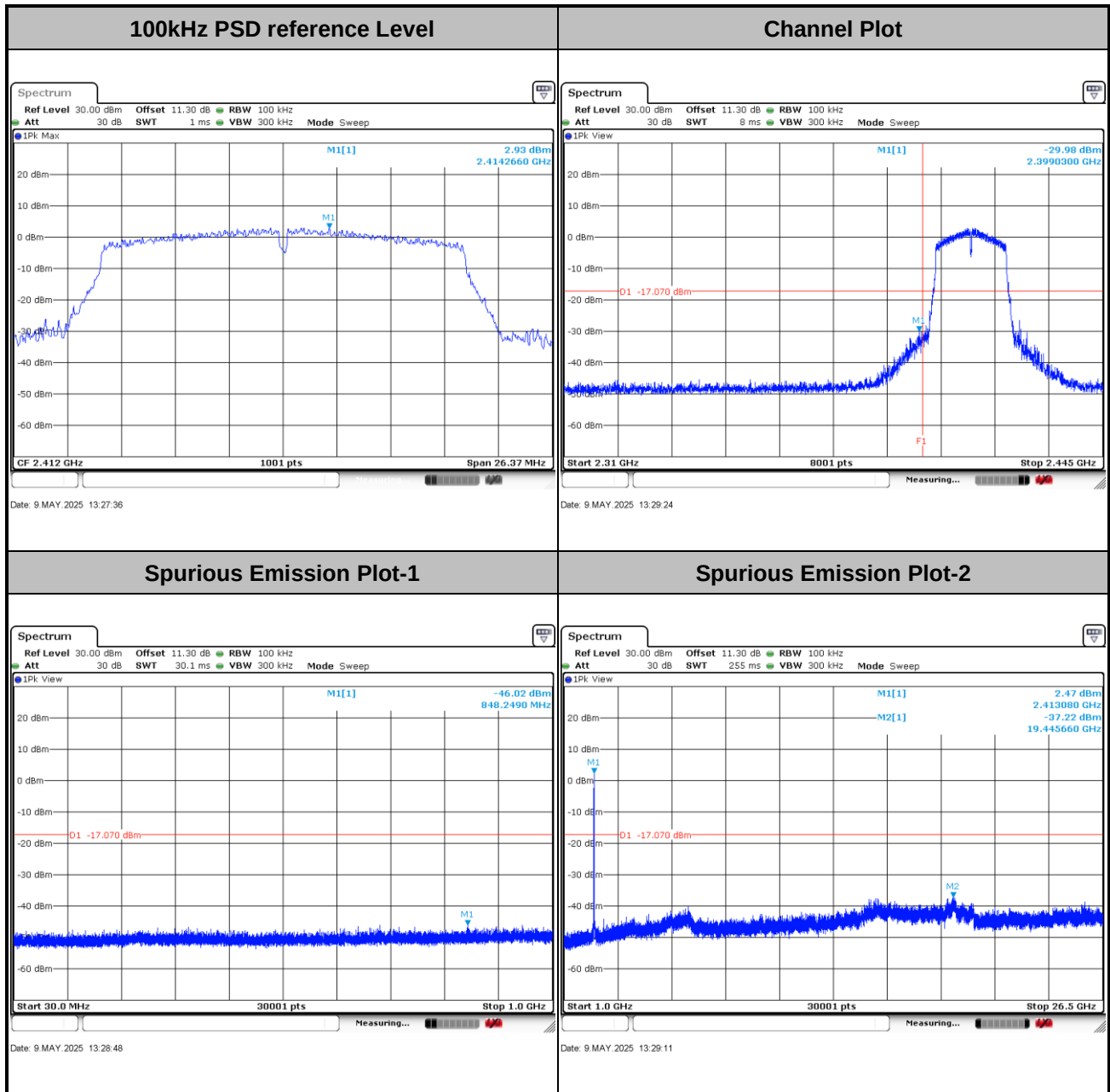


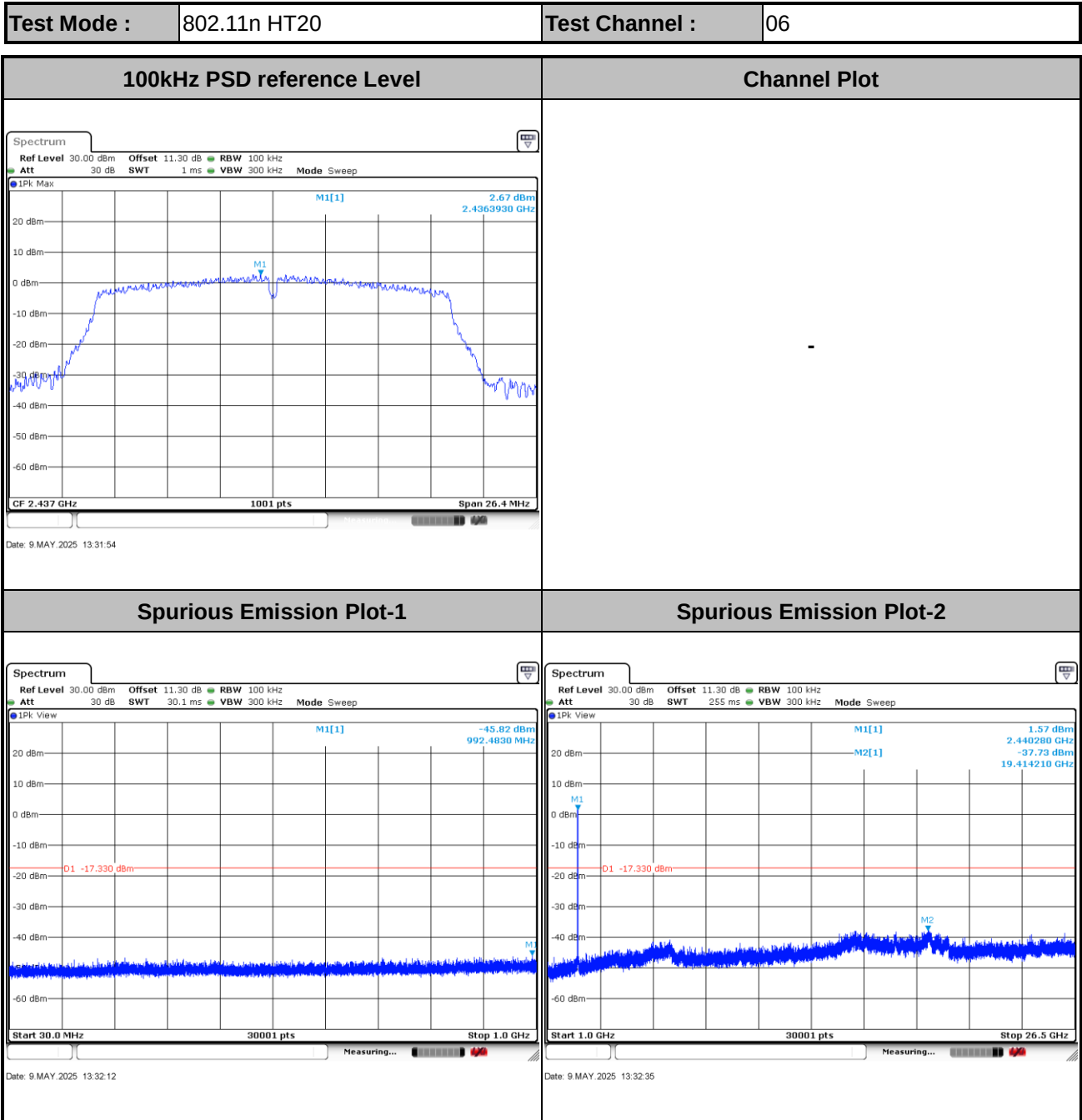
Test Mode :	802.11g	Test Channel :	13
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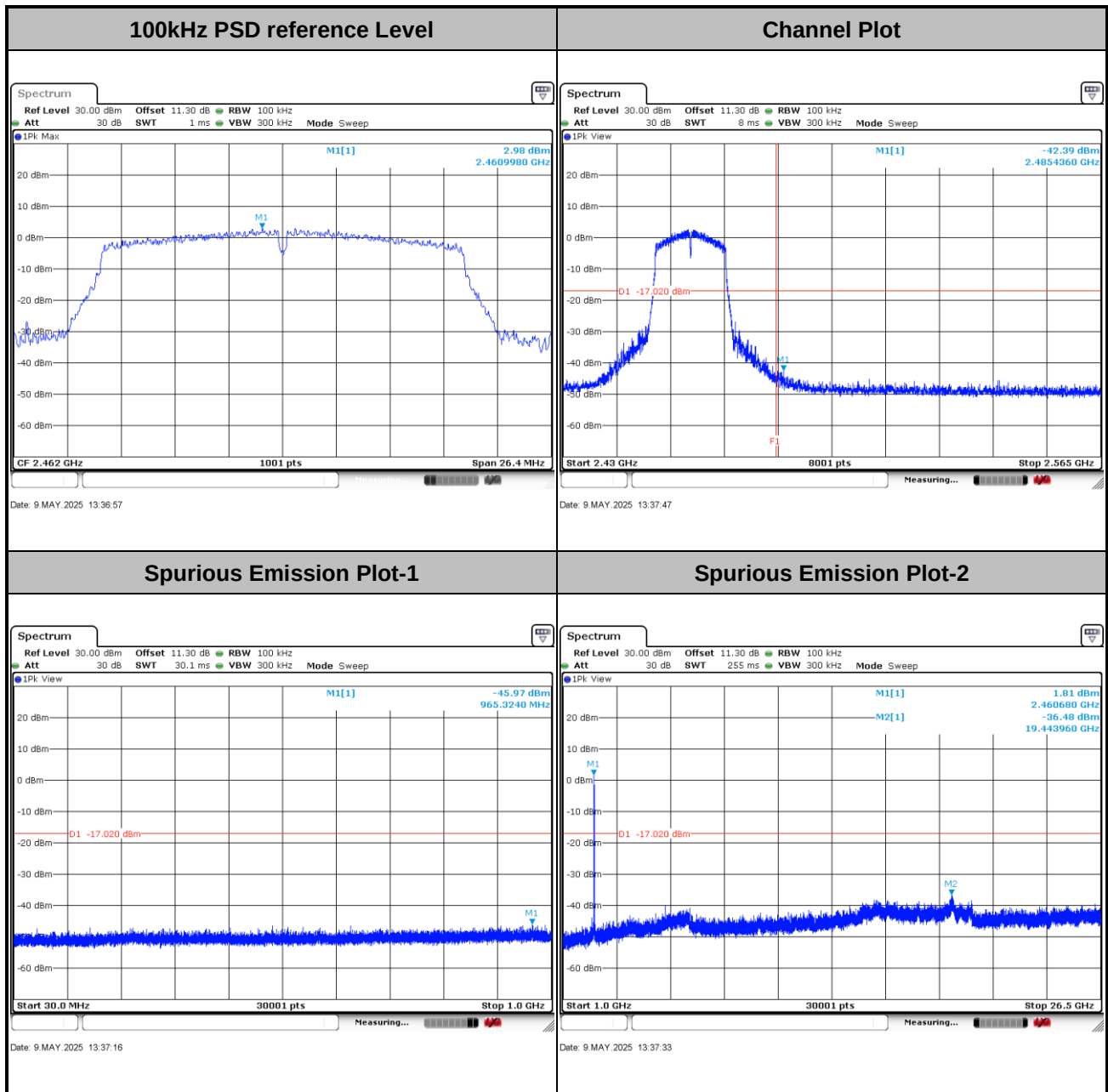
Test Mode :	802.11n HT20	Test Channel :	01
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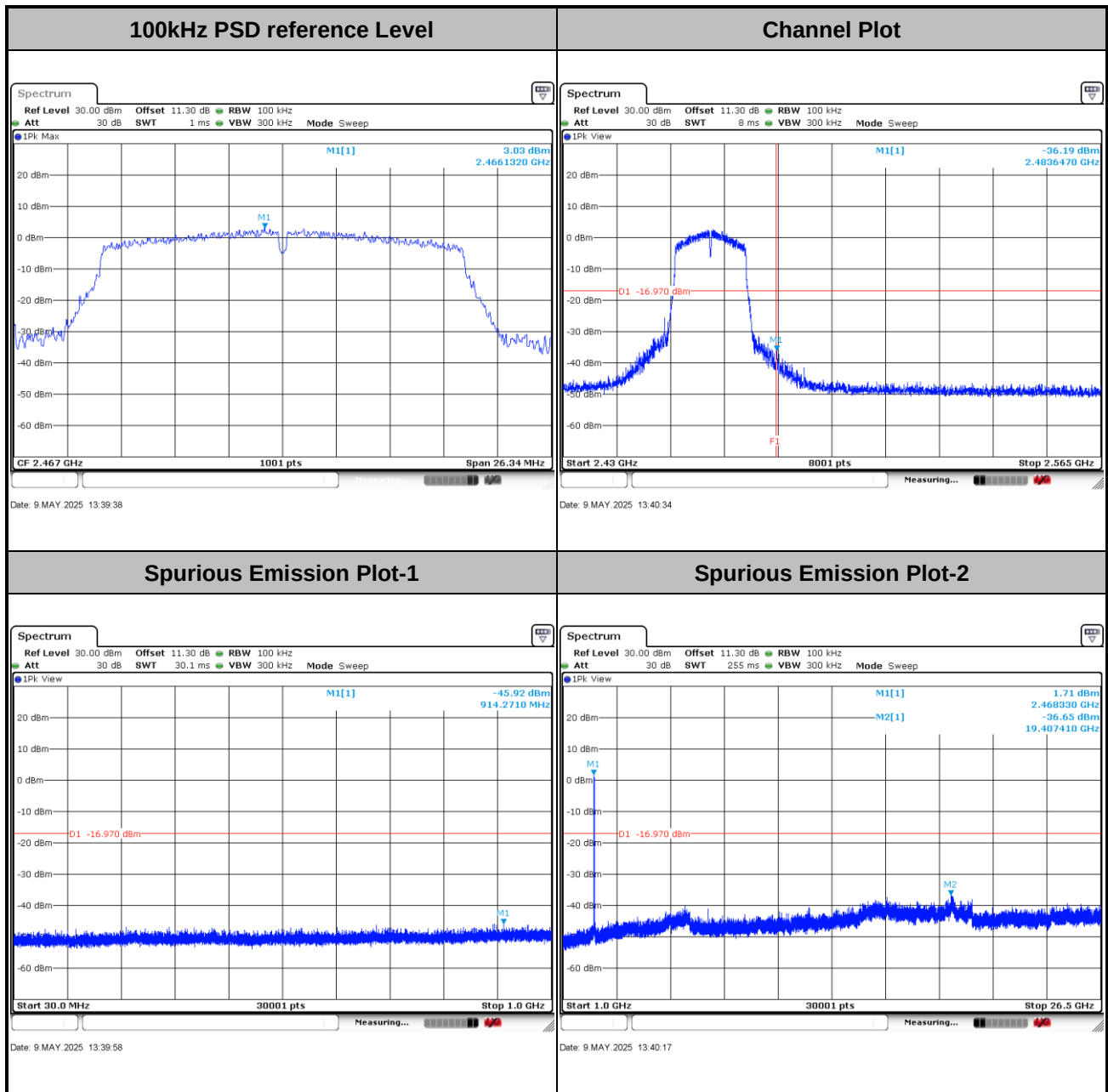


Test Mode :	802.11n HT20	Test Channel :	11
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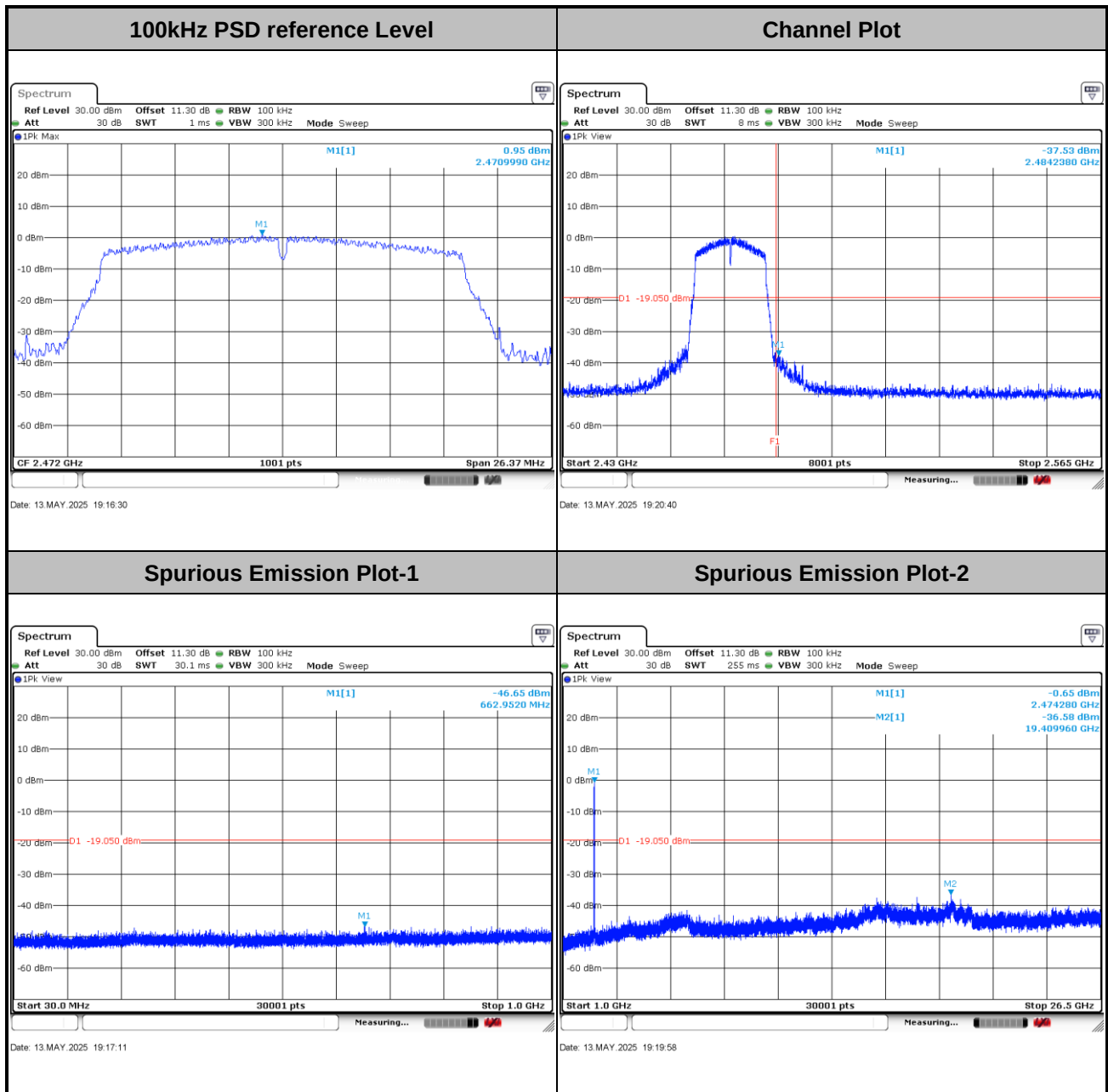


Test Mode :	802.11n HT20	Test Channel :	12
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Test Mode :	802.11n HT20	Test Channel :	13
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3.5 Radiated Band Edges and Spurious Emission Measurement

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

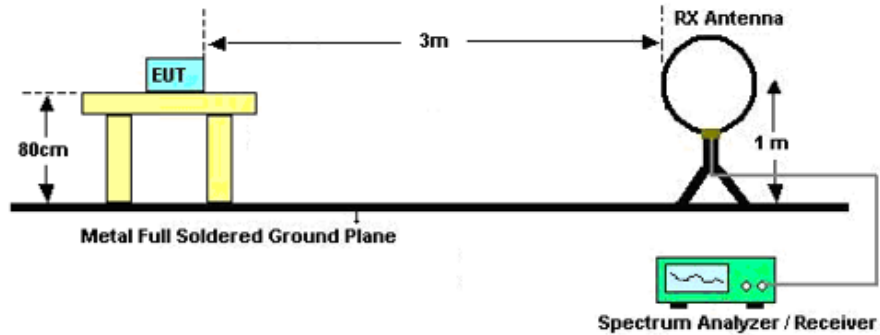
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

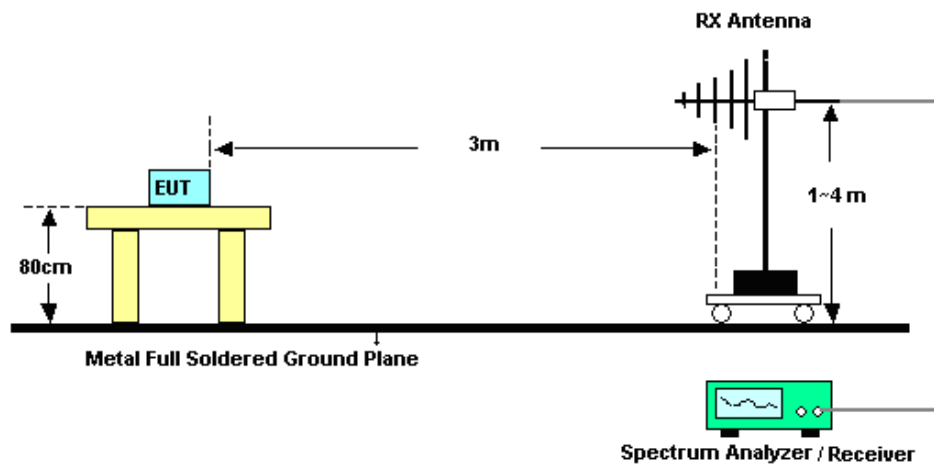
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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

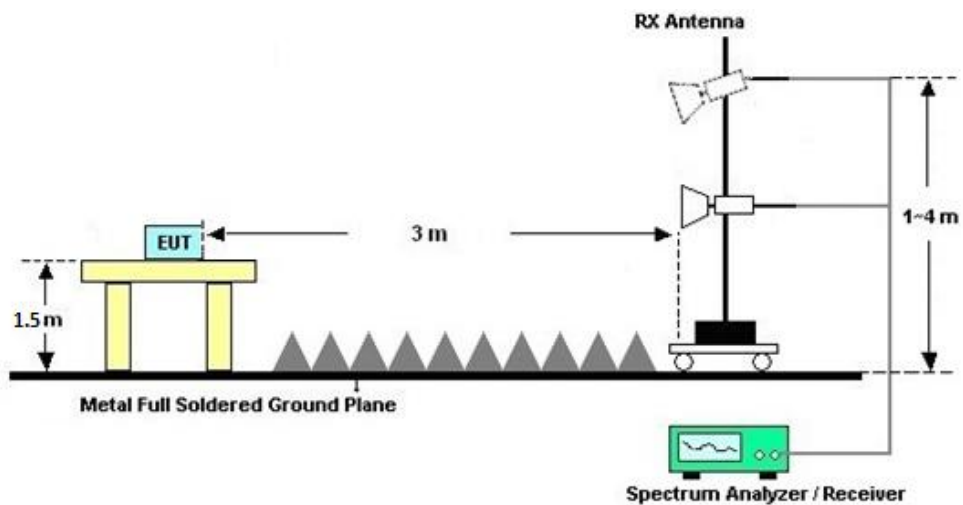
For radiated emissions below 30MHz



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 B.

3.5.7 Duty Cycle

Please refer to Appendix C.

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

Please refer to Appendix B.



3.6 Antenna Requirements

3.6.1 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.

3.6.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.6.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver&SA	KEYSIGHT	N9038A	MY54450083	20Hz~8.4GHz	Apr. 02, 2025	May 31, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
EXA Signal Analyzer	KEYSIGHT	N9010B	MY59071191	10KHz-44GHz	Apr. 02, 2025	May 31, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
Loop Antenna	R&S	HFH2-Z2E	101141	9kHz~30MHz	Dec. 28, 2024	May 31, 2025	Dec. 27, 2025	Radiation (03CH03-SZ)
Bilog Antenna	TeseQ	CBL6112D	35408	30MHz-2GHz	Aug. 20, 2023	May 31, 2025	Aug. 19, 2025	Radiation (03CH03-SZ)
Double Ridege Guide Antenna	ETS-Lindgren	Burgeon-3117	00240107	1GHz~18GHz	Jul. 13, 2024	May 31, 2025	Jul.12, 2025	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	TTA1840-35-HG	1871923	18GHz~40GHz	Jul. 03, 2024	May 31, 2025	Jul.02, 2025	Radiation (03CH03-SZ)
SHF-EHF Horn	com-power	AH-840	101071	18Ghz-40GHz	Apr. 03, 2025	May 31, 2025	Apr. 02, 2027	Radiation (03CH03-SZ)
Amplifier	EM Electronics	EM330	060756	0.01Hz ~3000MHz	Apr. 02, 2025	May 31, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
HF Amplifier	MITEQ	AMF-7D-00101800-30-10P-R	1943528	1GHz~18GHz	Oct. 14, 2024	May 31, 2025	Oct. 13, 2025	Radiation (03CH03-SZ)
HF Amplifier	Keysight	83017A	MY53270357	500MHz~26.5GHz	Apr. 02, 2025	May 31, 2025	Apr. 01, 2026	Radiation (03CH03-SZ)
AC Power Source	Chroma	61601	616010002729	N/A	Oct. 18, 2024	May 31, 2025	Oct. 17, 2025	Radiation (03CH03-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	May 31, 2025	NCR	Radiation (03CH03-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	May 31, 2025	NCR	Radiation (03CH03-SZ)
Spectrum Analyzer	R&S	FSV40	101078	10Hz~40GHz	Apr. 02, 2025	May 09, 2025~May 30, 2025	Apr. 01, 2026	Conducted (TH01-SZ)
Pulse Power Sensor	Anritsu	MA2411B	1339473	30MHz~40GHz	Dec. 25, 2024	May 09, 2025~May 30, 2025	Dec. 24, 2025	Conducted (TH01-SZ)
Power Meter	Anritsu	ML2495A	1218010	50MHz Bandwidth	Oct. 14, 2024	May 09, 2025~May 30, 2025	Oct. 13, 2025	Conducted (TH01-SZ)
Thermo meter	Anymetre	JR593	#7	-10°C ~ 50°C 10%RH~99%RH	Apr. 03, 2025	May 09, 2025~May 30, 2025	Apr. 02, 2026	Conducted (TH01-SZ)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. 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 Radiated Emission Measurement (30 MHz ~ 1000 MHz)

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

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.9 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

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



Appendix A. Conducted Test Results

Appendix A. Test Result of Conducted Test Items

Test Engineer:	Sam Zheng	Temperature:	21~25	°C
Test Date:	2025/05/9~2025/05/30	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band								
Mod.	Data Rate	N _{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant 1	Ant 1		
11b	1Mbps	1	1	2412	14.36	9.58	0.50	Pass
11b	1Mbps	1	6	2437	14.31	9.60	0.50	Pass
11b	1Mbps	1	11	2462	14.29	9.12	0.50	Pass
11b	1Mbps	1	12	2467	14.30	9.58	0.50	Pass
11b	1Mbps	1	13	2472	14.29	9.58	0.50	Pass
11g	6Mbps	1	1	2412	16.86	16.38	0.50	Pass
11g	6Mbps	1	6	2437	16.73	16.36	0.50	Pass
11g	6Mbps	1	11	2462	16.71	16.34	0.50	Pass
11g	6Mbps	1	12	2467	16.65	16.34	0.50	Pass
11g	6Mbps	1	13	2472	16.68	16.38	0.50	Pass
HT20	MCS0	1	1	2412	17.64	17.58	0.50	Pass
HT20	MCS0	1	6	2437	17.64	17.60	0.50	Pass
HT20	MCS0	1	11	2462	17.64	17.60	0.50	Pass
HT20	MCS0	1	12	2467	17.64	17.56	0.50	Pass
HT20	MCS0	1	13	2472	17.63	17.58	0.50	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band										
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
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	19.10	30.00	2.50	21.60	36.00	Pass
11b	1Mbps	1	6	2437	18.20	30.00	2.50	20.70	36.00	Pass
11b	1Mbps	1	11	2462	18.30	30.00	2.50	20.80	36.00	Pass
11b	1Mbps	1	12	2467	18.00	30.00	2.50	20.50	36.00	Pass
11b	1Mbps	1	13	2472	16.30	30.00	2.50	18.80	36.00	Pass
11g	6Mbps	1	1	2412	18.60	30.00	2.50	21.10	36.00	Pass
11g	6Mbps	1	6	2437	18.50	30.00	2.50	21.00	36.00	Pass
11g	6Mbps	1	11	2462	18.10	30.00	2.50	20.60	36.00	Pass
11g	6Mbps	1	12	2467	16.90	30.00	2.50	19.40	36.00	Pass
11g	6Mbps	1	13	2472	15.40	30.00	2.50	17.90	36.00	Pass
HT20	MCS0	1	1	2412	16.20	30.00	2.50	18.70	36.00	Pass
HT20	MCS0	1	6	2437	15.80	30.00	2.50	18.30	36.00	Pass
HT20	MCS0	1	11	2462	16.00	30.00	2.50	18.50	36.00	Pass
HT20	MCS0	1	12	2467	15.90	30.00	2.50	18.40	36.00	Pass
HT20	MCS0	1	13	2472	14.20	30.00	2.50	16.70	36.00	Pass

Setting
Ant 1
22.00
21.00
22.00
22.00
1E
22.00
23.00
23.00
21.00
1E
1F
1F
21.00
21.00
1E

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Output Power

2.4GHz Band										
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
					Ant 1	Ant 1	Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	21.20	30.00	2.50	23.70	36.00	Pass
11b	1Mbps	1	6	2437	20.35	30.00	2.50	22.85	36.00	Pass
11b	1Mbps	1	11	2462	20.12	30.00	2.50	22.62	36.00	Pass
11b	1Mbps	1	12	2467	20.07	30.00	2.50	22.57	36.00	Pass
11b	1Mbps	1	13	2472	18.32	30.00	2.50	20.82	36.00	Pass
11g	6Mbps	1	1	2412	25.44	30.00	2.50	27.94	36.00	Pass
11g	6Mbps	1	6	2437	25.27	30.00	2.50	27.77	36.00	Pass
11g	6Mbps	1	11	2462	24.99	30.00	2.50	27.49	36.00	Pass
11g	6Mbps	1	12	2467	25.03	30.00	2.50	27.53	36.00	Pass
11g	6Mbps	1	13	2472	24.33	30.00	2.50	26.83	36.00	Pass
HT20	MCS0	1	1	2412	24.72	30.00	2.50	27.22	36.00	Pass
HT20	MCS0	1	6	2437	24.42	30.00	2.50	26.92	36.00	Pass
HT20	MCS0	1	11	2462	24.70	30.00	2.50	27.20	36.00	Pass
HT20	MCS0	1	12	2467	24.58	30.00	2.50	27.08	36.00	Pass
HT20	MCS0	1	13	2472	23.90	30.00	2.50	26.40	36.00	Pass

Note: Measured power (dBm) has offset with cable loss.

TEST RESULTS DATA
Peak Power Spectral Density

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm/3kHz)	DG (dBi)	Peak PSD Limit (dBm/3kHz)	Pass/Fail
					Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	-3.83	2.50	8.00	Pass
11b	1Mbps	1	6	2437	-3.96	2.50	8.00	Pass
11b	1Mbps	1	11	2462	-4.09	2.50	8.00	Pass
11b	1Mbps	1	12	2467	-4.66	2.50	8.00	Pass
11b	1Mbps	1	13	2472	-6.93	2.50	8.00	Pass
11g	6Mbps	1	1	2412	-6.64	2.50	8.00	Pass
11g	6Mbps	1	6	2437	-5.84	2.50	8.00	Pass
11g	6Mbps	1	11	2462	-6.85	2.50	8.00	Pass
11g	6Mbps	1	12	2467	-7.30	2.50	8.00	Pass
11g	6Mbps	1	13	2472	-9.40	2.50	8.00	Pass
HT20	MCS0	1	1	2412	-7.64	2.50	8.00	Pass
HT20	MCS0	1	6	2437	-8.73	2.50	8.00	Pass
HT20	MCS0	1	11	2462	-7.72	2.50	8.00	Pass
HT20	MCS0	1	12	2467	-8.17	2.50	8.00	Pass
HT20	MCS0	1	13	2472	-10.58	2.50	8.00	Pass

Measured power density (dBm) has offset with cable loss.



Appendix B. Radiated Spurious Emission

Test Engineer :	Reid Huang	Relative Humidity :	48~49%
		Temperature :	24~25° C

Radiated Spurious Emission Test Modes

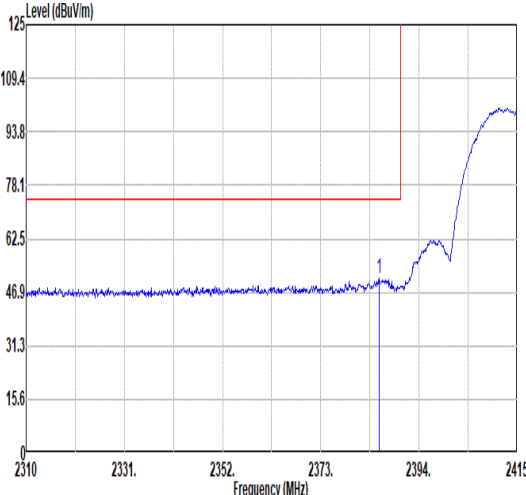
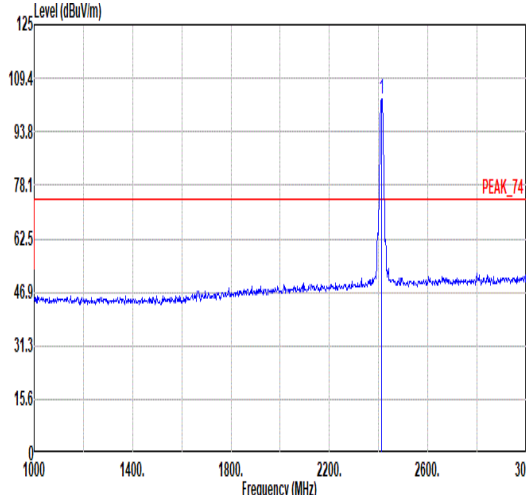
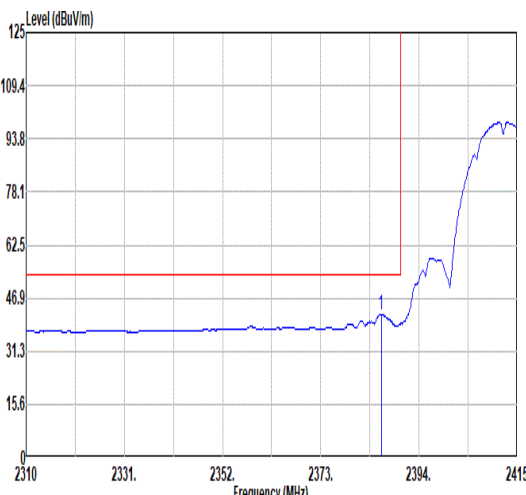
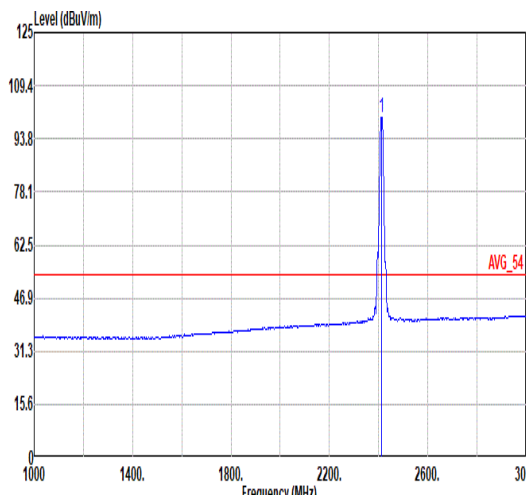
Mode	Band (MHz)	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	802.11b	12	2467	1Mbps	-	-
Mode 5	2400-2483.5	802.11b	13	2472	1Mbps	-	-
Mode 6	2400-2483.5	802.11g	01	2412	6Mbps	-	-
Mode 7	2400-2483.5	802.11g	06	2437	6Mbps	-	-
Mode 8	2400-2483.5	802.11g	11	2462	6Mbps	-	-
Mode 9	2400-2483.5	802.11g	12	2467	6Mbps	-	-
Mode 10	2400-2483.5	802.11g	13	2472	6Mbps	-	-
Mode 11	2400-2483.5	802.11n HT20	01	2412	MCS0	-	-
Mode 12	2400-2483.5	802.11n HT20	06	2437	MCS0	-	-
Mode 13	2400-2483.5	802.11n HT20	11	2462	MCS0	-	-
Mode 14	2400-2483.5	802.11n HT20	12	2467	MCS0	-	-
Mode 15	2400-2483.5	802.11n HT20	13	2472	MCS0	-	-
Mode 16	2400-2483.5	802.11g	13	2472	6Mbps	-	LF



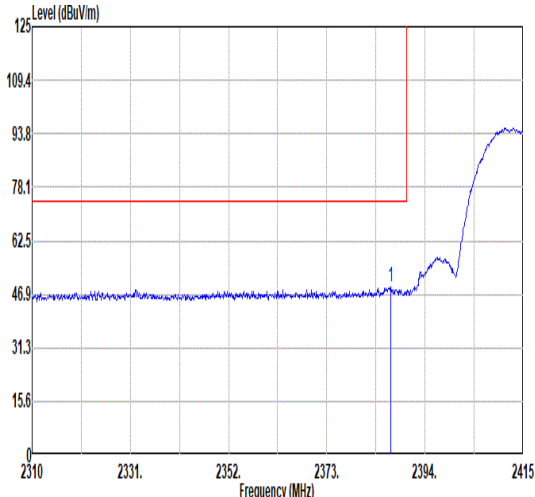
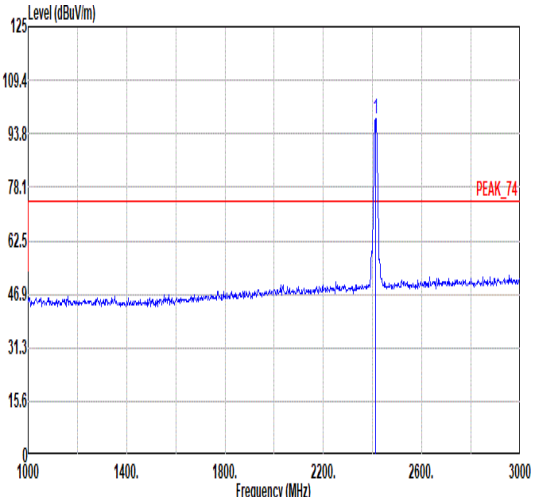
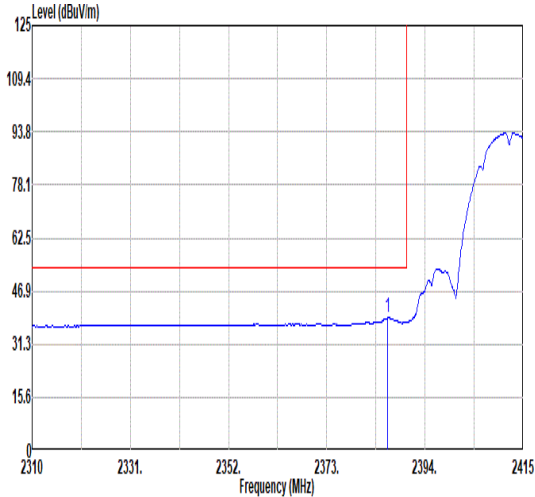
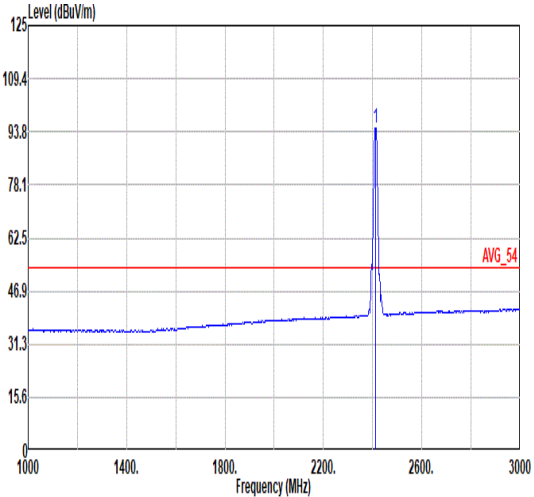
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2385.92	42.11	54.00	-11.89	H	Average	Pass	Band Edge
1	802.11b	01	4824.00	41.39	74.00	-32.61	H	Peak	Pass	Harmonic
2	802.11b	06	-	-	-	-	-	-	-	Band Edge
2	802.11b	06	7311.00	48.38	74.00	-25.62	V	Peak	Pass	Harmonic
3	802.11b	11	2487.64	39.41	54.00	-14.59	H	Average	Pass	Band Edge
3	802.11b	11	7386.00	49.82	74.00	-24.18	V	Peak	Pass	Harmonic
4	802.11b	12	2484.16	49.22	54.00	-4.78	H	Average	Pass	Band Edge
4	802.11b	12	7401.00	49.31	74.00	-24.69	V	Peak	Pass	Harmonic
5	802.11b	13	2487.36	50.26	54.00	-3.74	H	Average	Pass	Band Edge
5	802.11b	13	7416.00	46.65	74.00	-27.35	V	Peak	Pass	Harmonic
6	802.11g	01	2390.00	45.87	54.00	-8.13	H	Average	Pass	Band Edge
6	802.11g	01	4824.00	43.38	74.00	-30.62	V	Peak	Pass	Harmonic
7	802.11g	06	-	-	-	-	-	-	-	Band Edge
7	802.11g	06	7311.00	43.16	54.00	-10.84	V	Average	Pass	Harmonic
8	802.11g	11	2483.52	44.29	54.00	-9.71	H	Average	Pass	Band Edge
8	802.11g	11	7386.00	42.88	54.00	-11.12	V	Average	Pass	Harmonic
9	802.11g	12	2483.52	46.95	54.00	-7.05	H	Average	Pass	Band Edge
9	802.11g	12	7401.00	46.62	74.00	-27.38	V	Peak	Pass	Harmonic
10	802.11g	13	2484.08	50.59	54.00	-3.41	H	Average	Pass	Band Edge
10	802.11g	13	7416.00	44.74	74.00	-29.26	V	Peak	Pass	Harmonic
11	802.11n HT20	01	2390.00	43.12	54.00	-10.88	H	Average	Pass	Band Edge
11	802.11n HT20	01	4824.00	42.87	74.00	-31.13	V	Peak	Pass	Harmonic
12	802.11n HT20	06	-	-	-	-	-	-	-	Band Edge
12	802.11n HT20	06	7311.00	44.27	74.00	-29.73	H	Peak	Pass	Harmonic
13	802.11n HT20	11	2483.52	41.03	54.00	-12.97	H	Average	Pass	Band Edge
13	802.11n HT20	11	7386.00	44.86	74.00	-29.14	V	Peak	Pass	Harmonic
14	802.11n HT20	12	2483.52	46.19	54.00	-7.81	H	Average	Pass	Band Edge
14	802.11n HT20	12	7401.00	44.69	74.00	-29.31	H	Peak	Pass	Harmonic
15	802.11n HT20	13	2483.52	50.57	54.00	-3.43	H	Average	Pass	Band Edge
15	802.11n HT20	13	7416.00	44.71	74.00	-29.29	V	Peak	Pass	Harmonic
16	802.11g	13	915.61	31.36	46	-14.64	V	Peak	Pass	LF

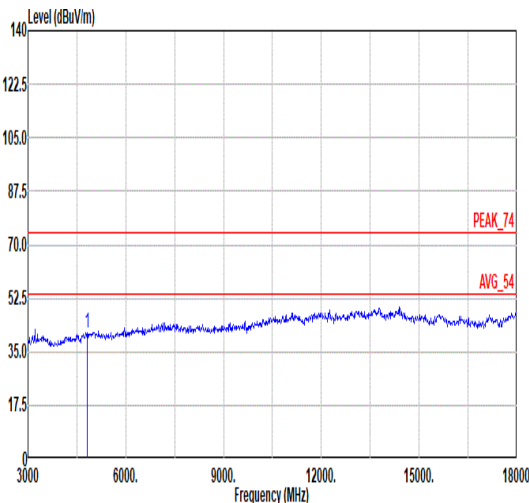
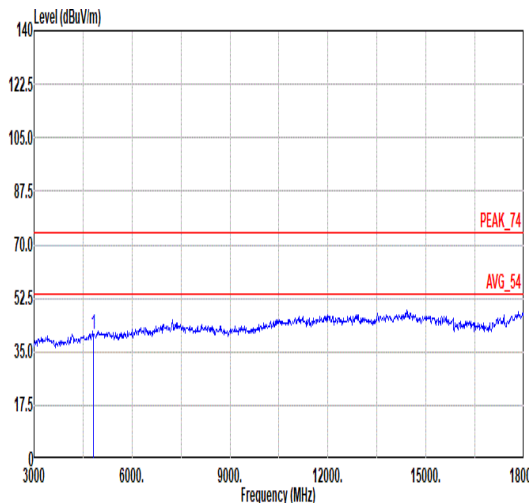


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		Limit	Read	Ant	Cable	Preamp	APos	TPos																																																																																			
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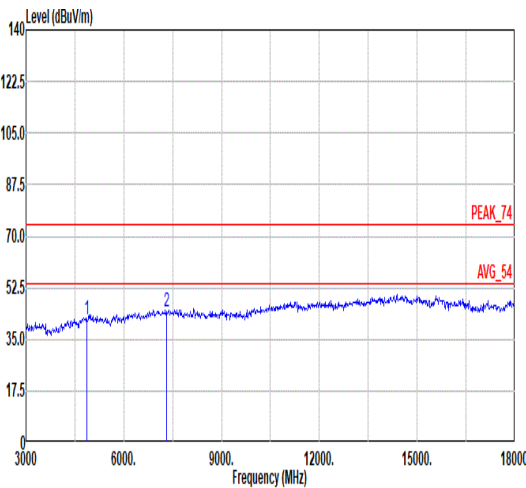
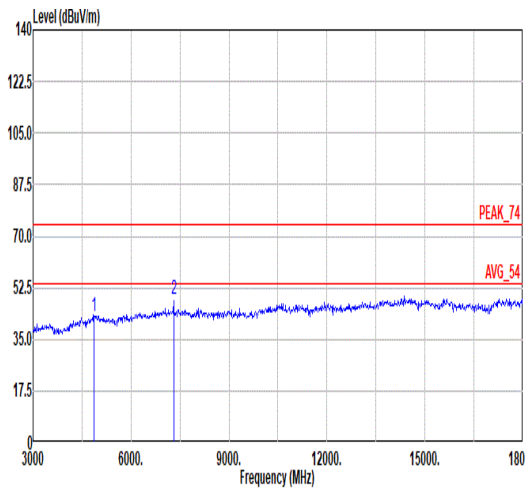


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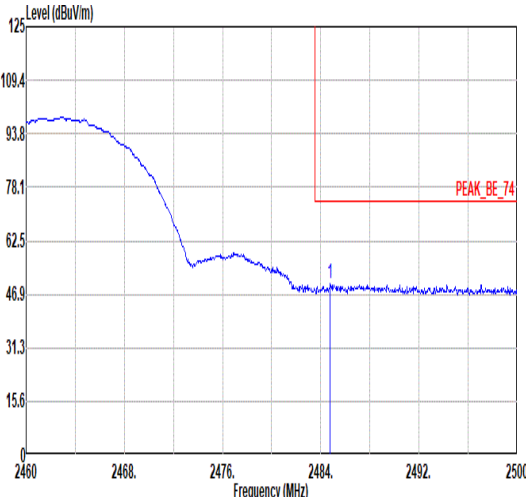
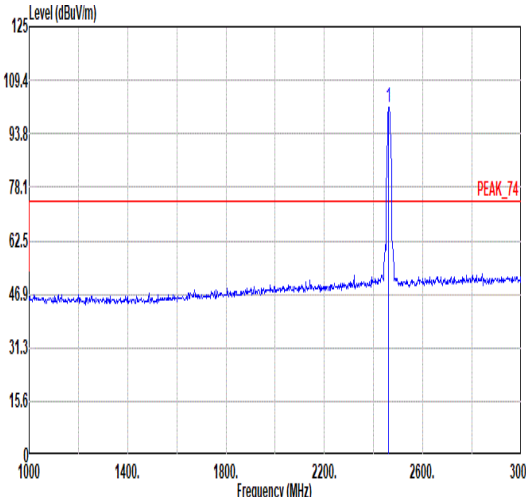
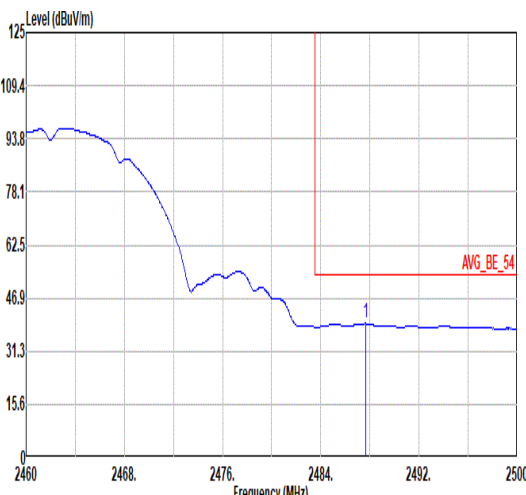
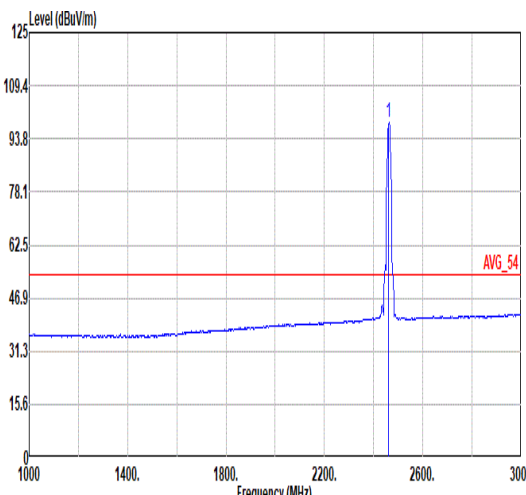


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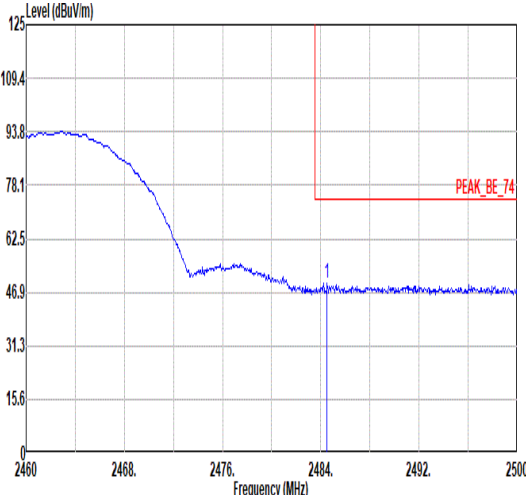
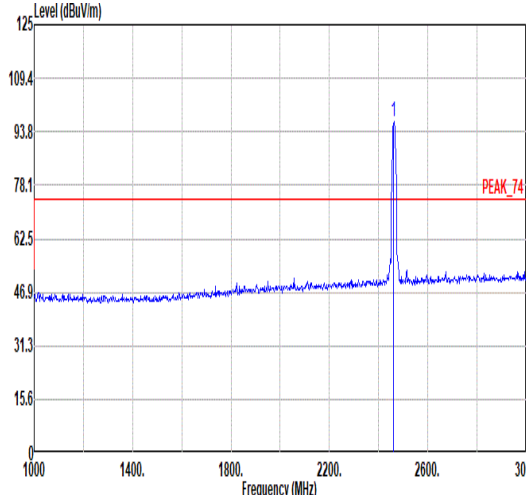
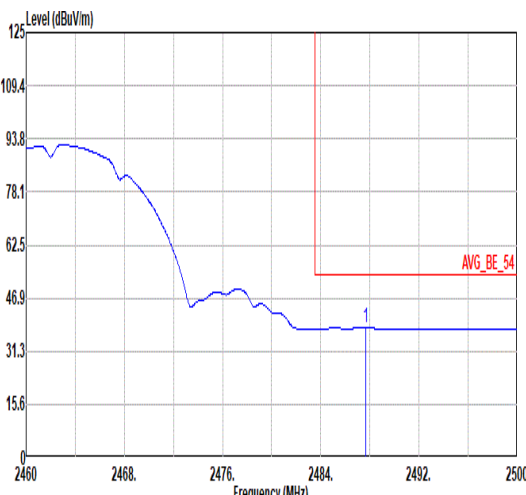
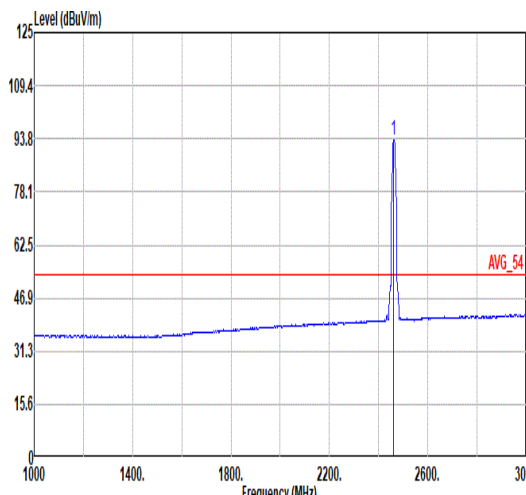


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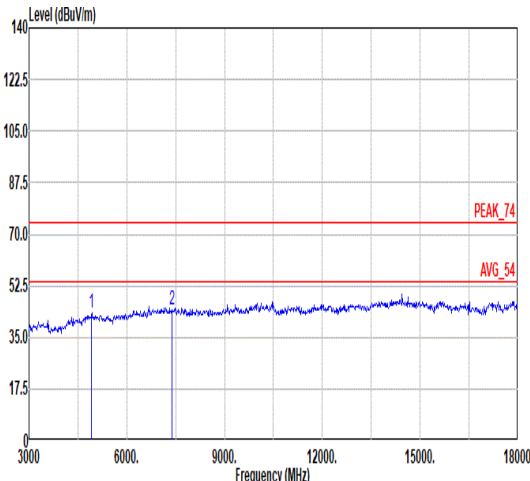
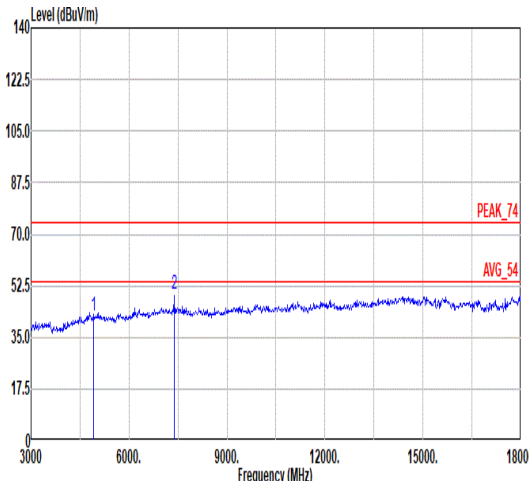


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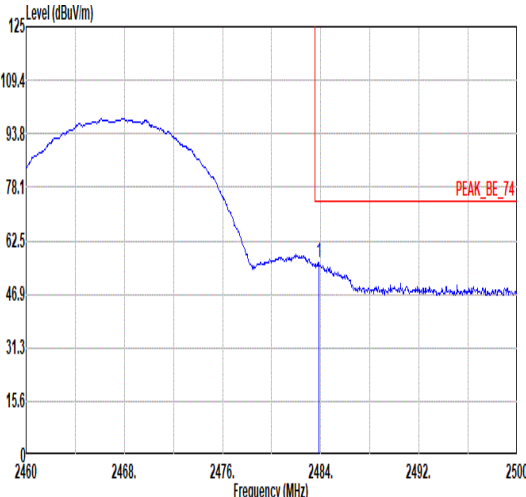
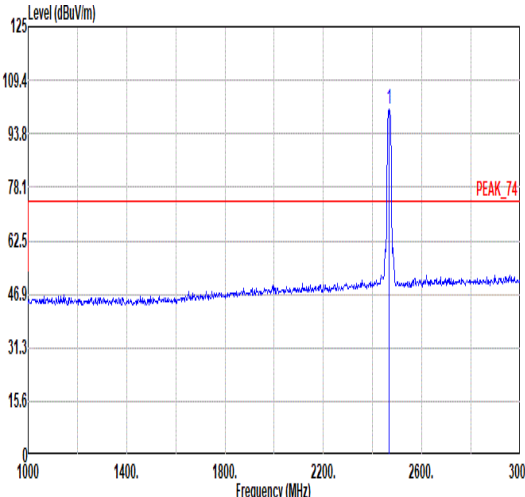
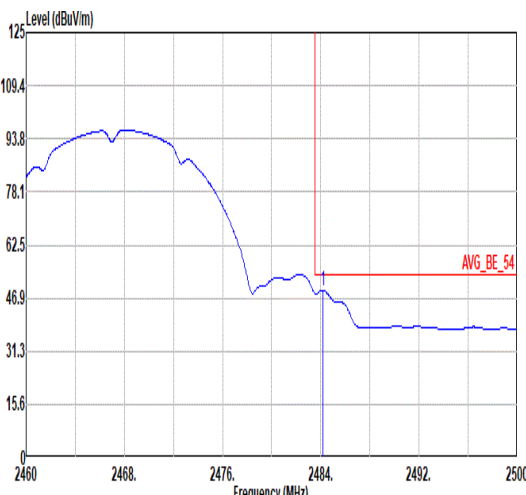
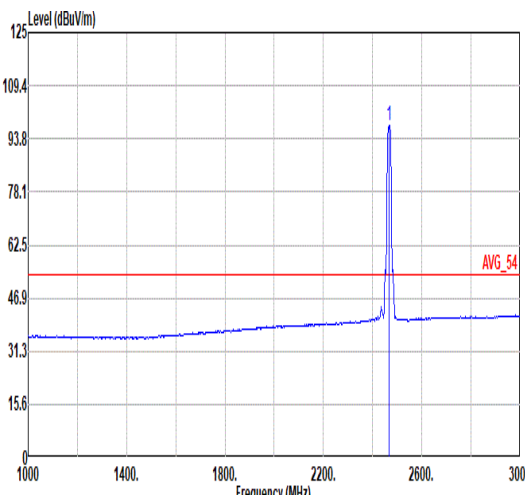


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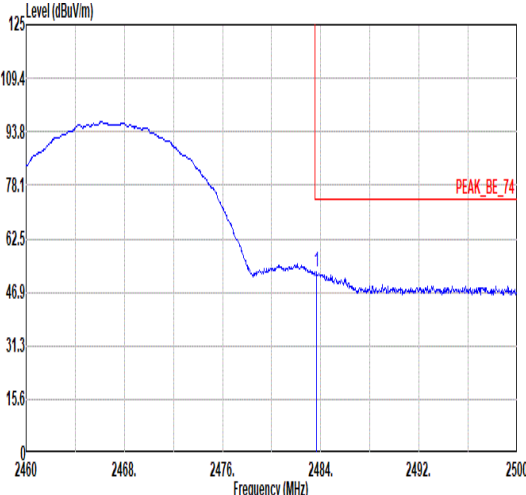
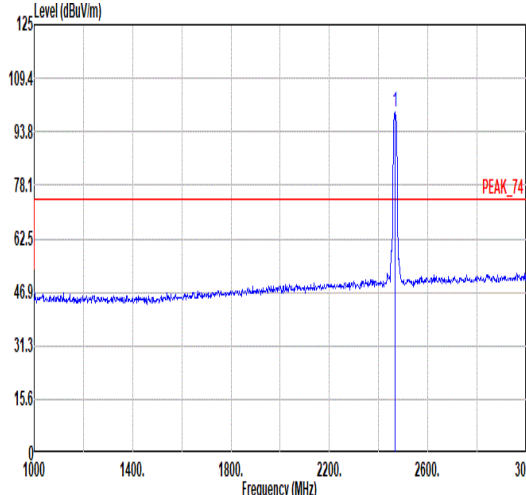
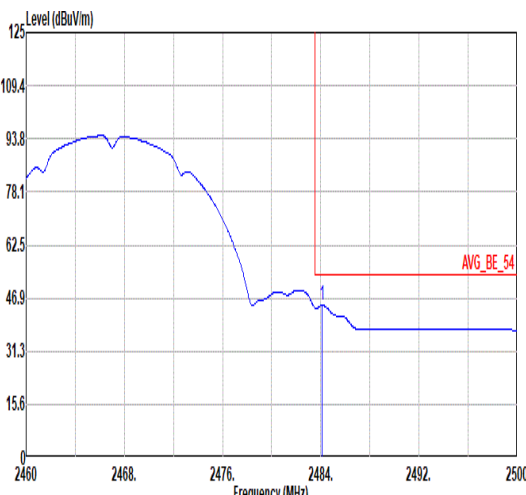
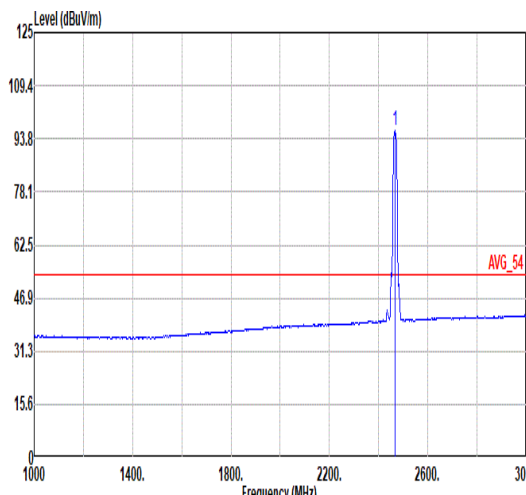


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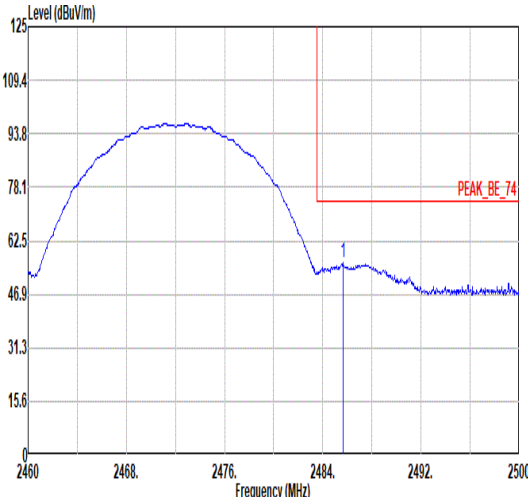
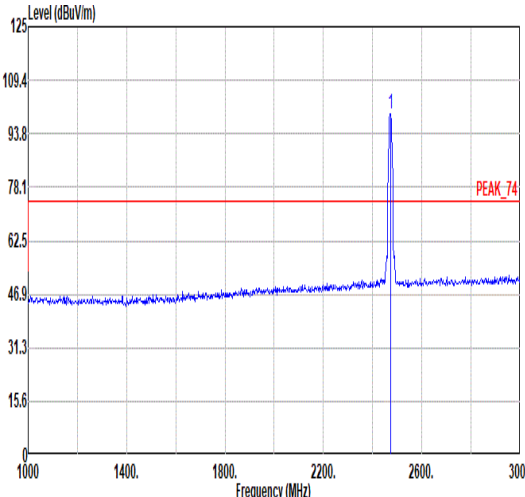
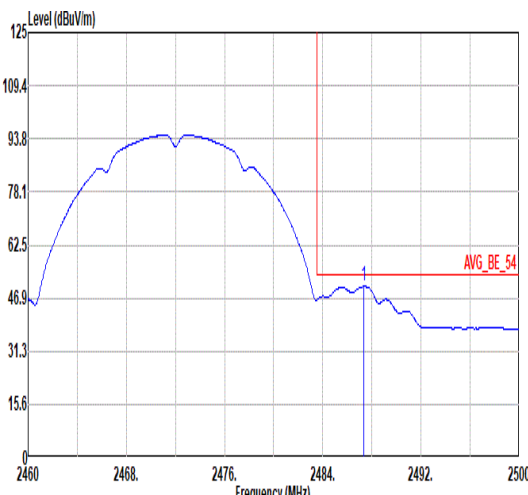
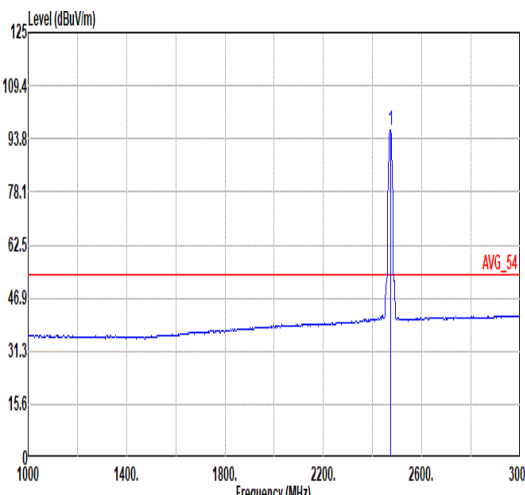


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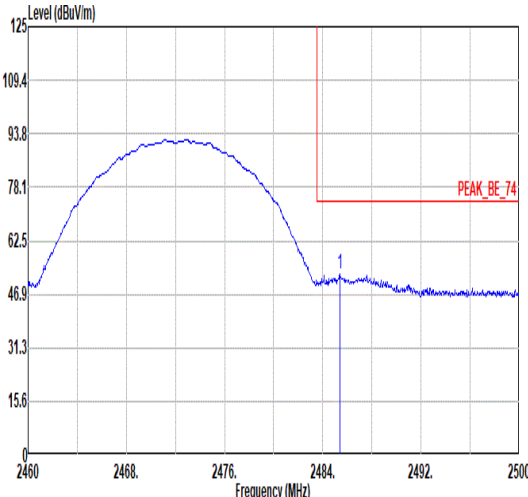
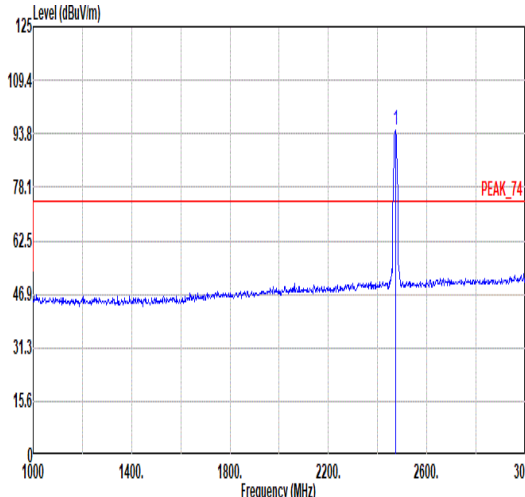
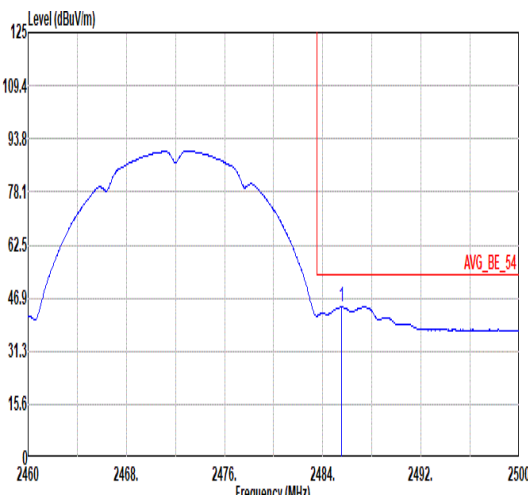
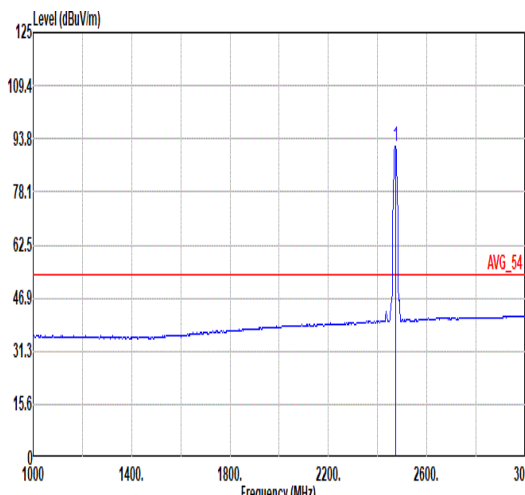


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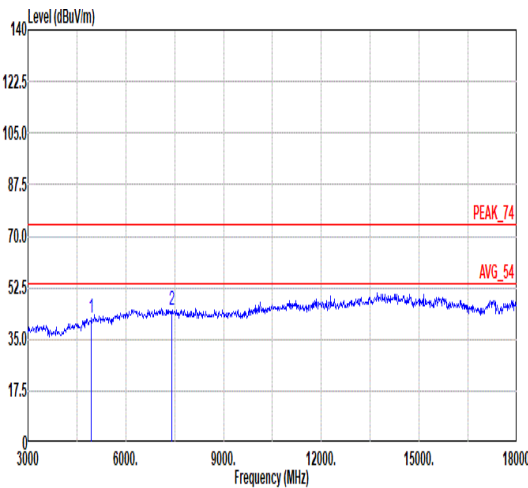
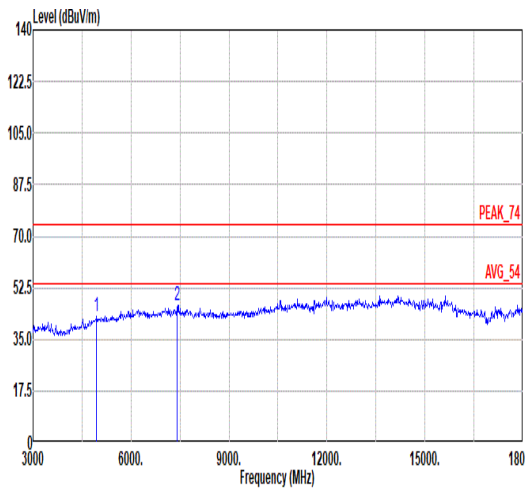


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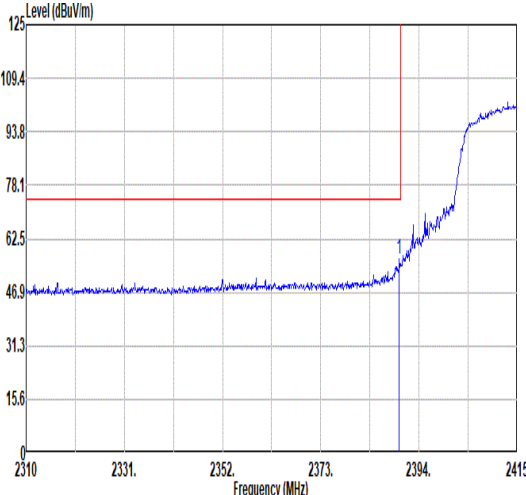
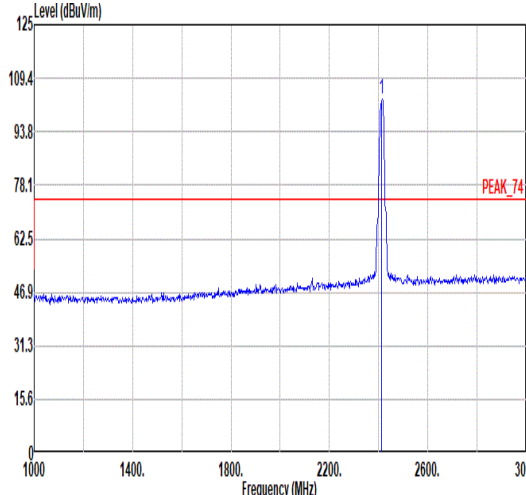
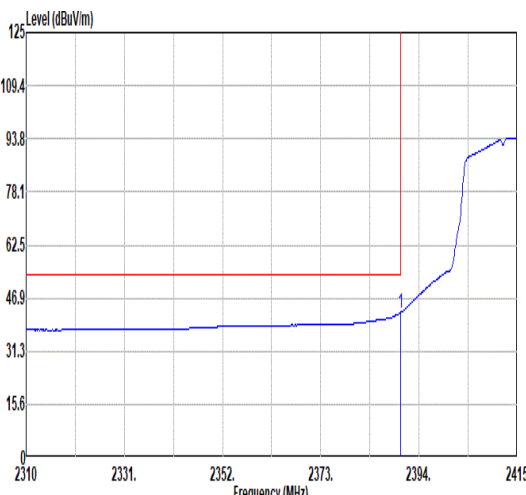
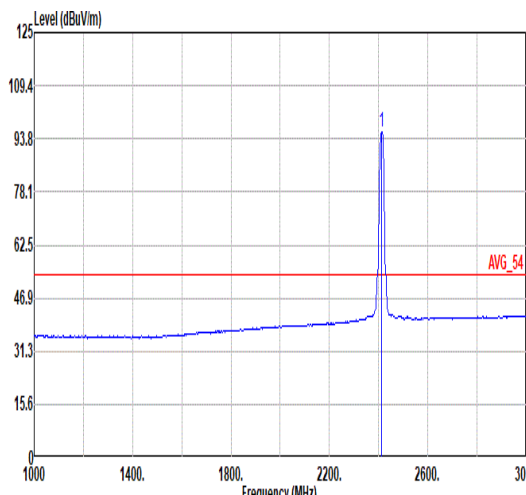


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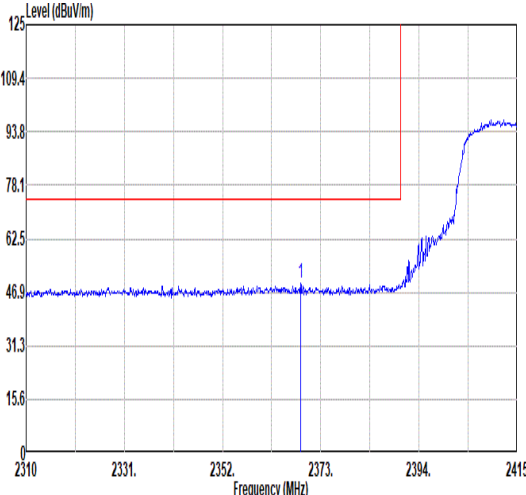
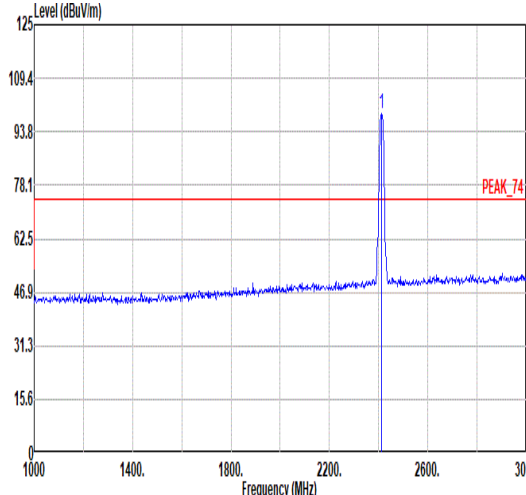
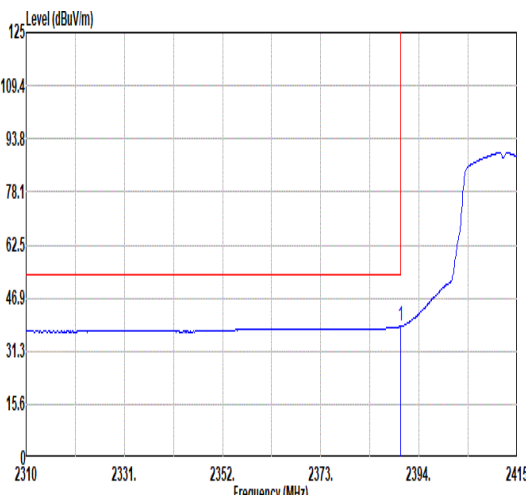
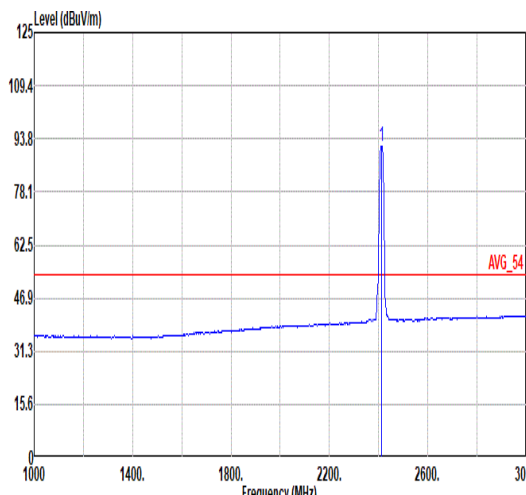


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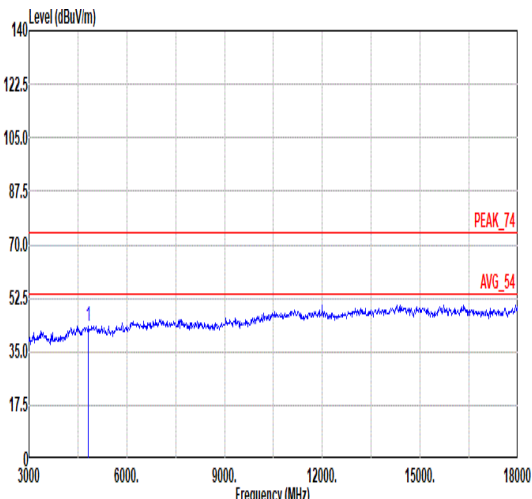
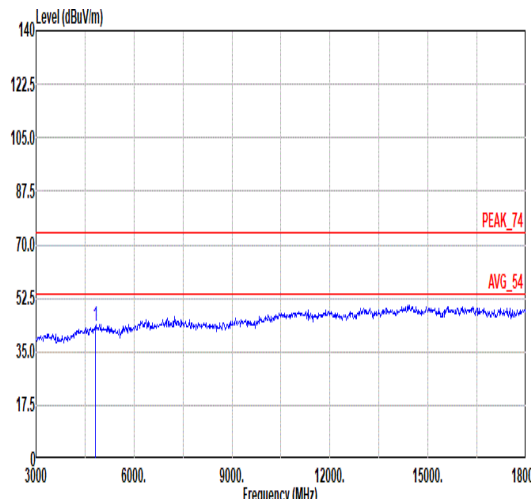


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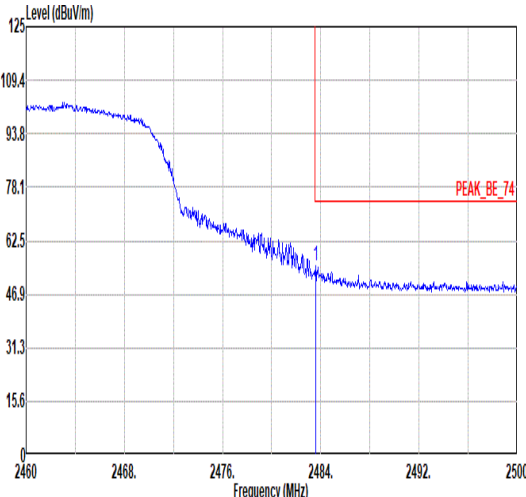
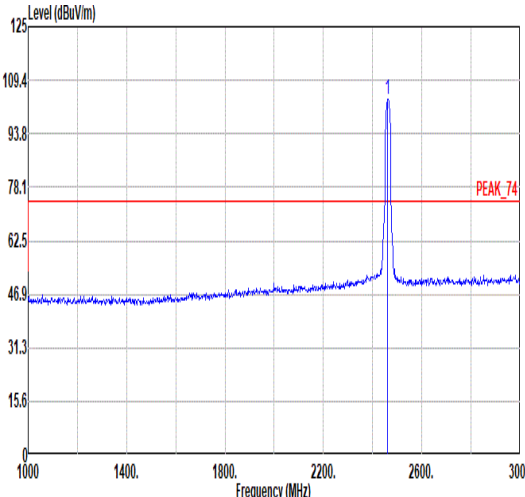
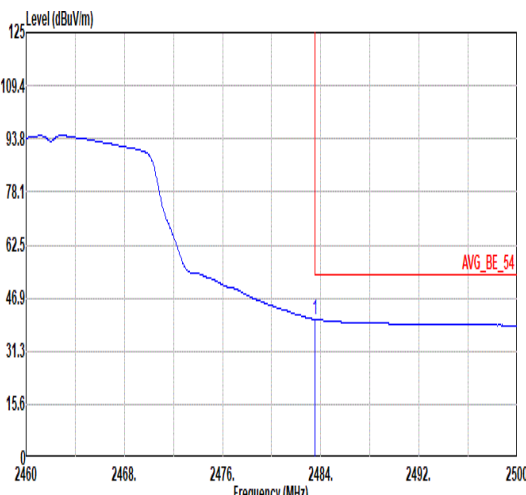
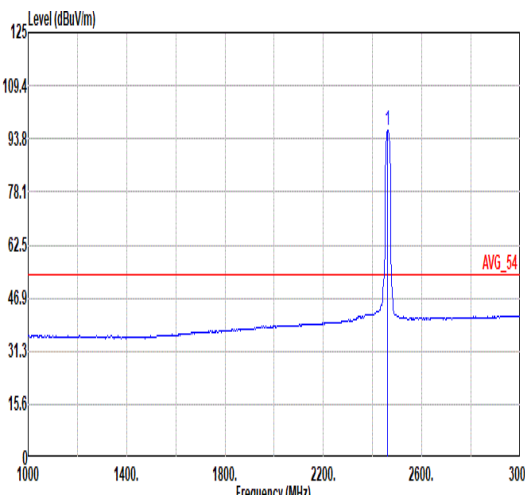


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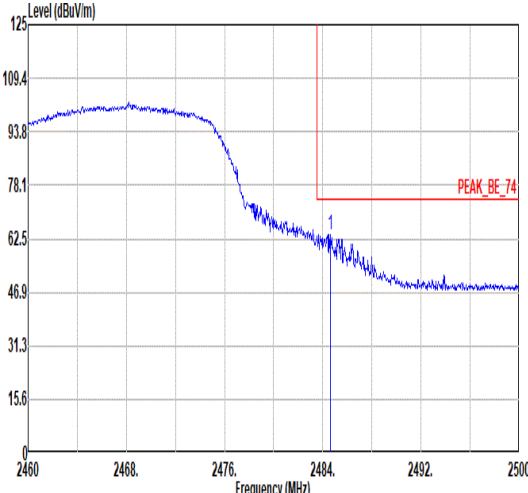
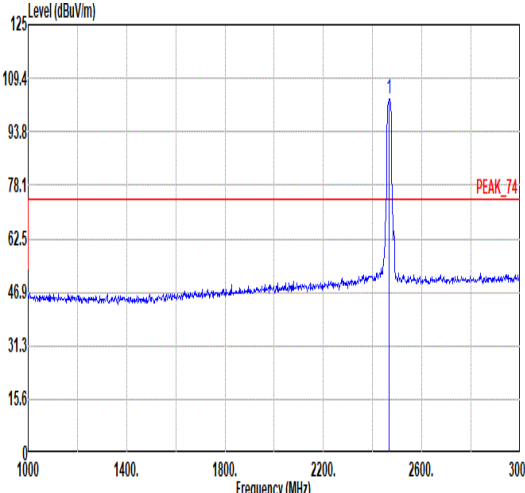
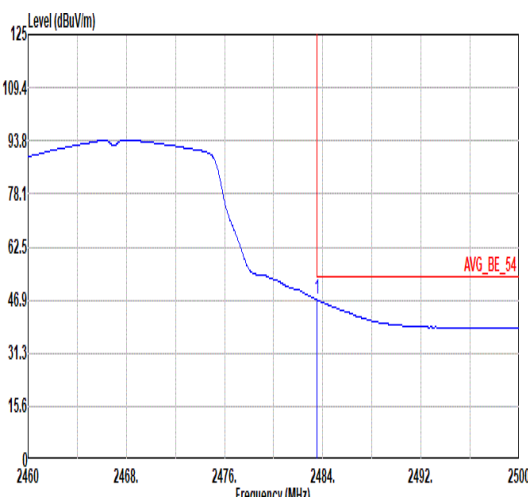
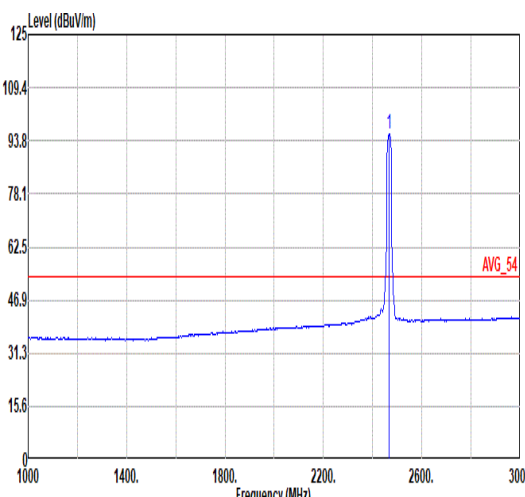


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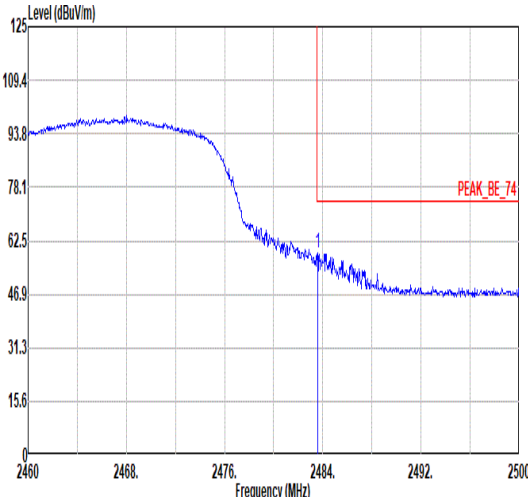
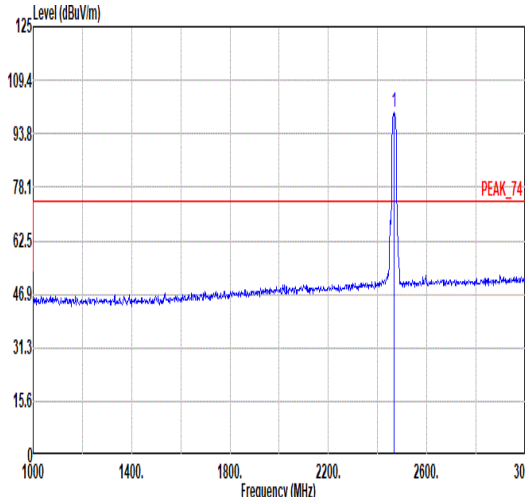
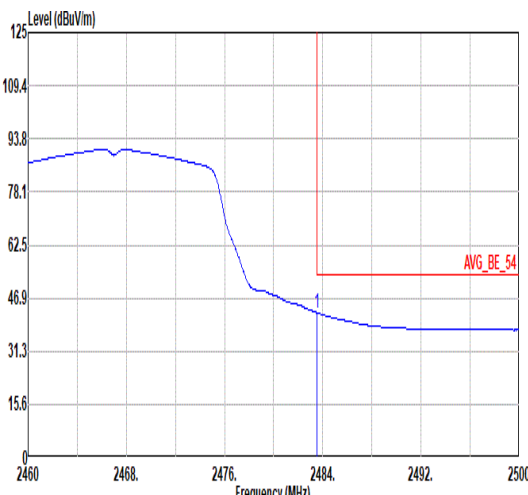
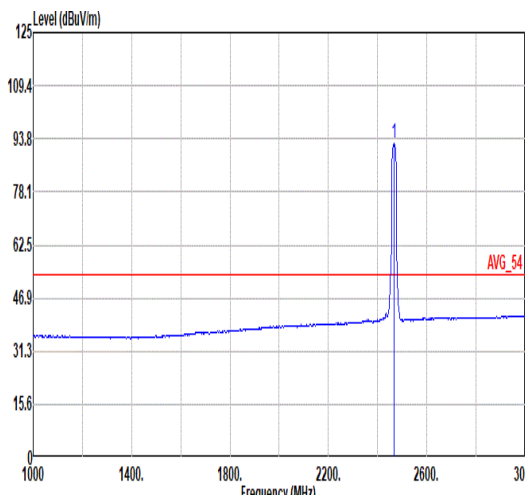


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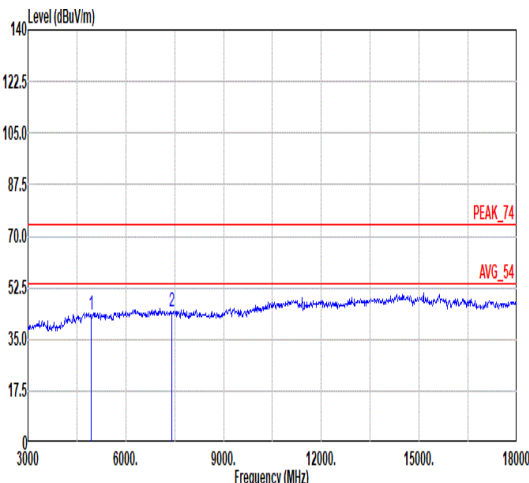
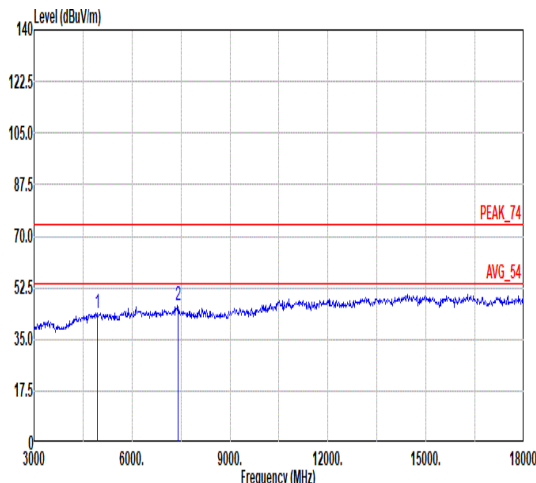


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