TEST REPORT

Applicant Name:	Dongguan Weisheng Communication Technology Co., Ltd
Address:	Room 601, Building 1, No. 8 Qingfeng South Road, Tangxia Town, Dongguan City, Guangdong Province, China
Report Number:	2501R35764E-RF-00
FCC ID:	2BGMW-XPA125B

Test Standard (s)

FCC Part 97

Sample Description

Product Type:	Power Amplifier
Model No.:	XPA125B
Multiple Model(s) No.:	N/A
Trade Mark:	XIEGU
Date Received:	2025/05/19
Issue Date:	2025/07/11

Test Result:	Pass▲

▲ In the configuration tested, the EUT complied with the standards above.

Prepared and Checked By:

Jim Cheng

RF Engineer

Approved By:

Nancy Wang

RF Supervisor

Note: The information marked # is provided by the applicant, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report. Customer model name, addresses, names, trademarks etc. are included.

This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "▼".

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
0	2501R35764E-RF-00	Original Report	2025/07/11

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Power Amplifier
Tested Model	XPA125B
Multiple Model(s)	N/A
Frequency Range	1.8-29.7MHz (TX/RX) 50MHz-54MHz (TX/RX)
Maximum output power:	1.8-29.7MHz: 100W 50MHz-54MHz: 60W
Antenna Specification#	13dBi (± 1 dB) (provided by the applicant)
Voltage Range	DC 12V-15V
Sample serial number	3347-1 (Assigned by BACL, Shenzhen)
Sample/EUT Status	Good condition
Adapter Information	N/A

Objective

This test report is in accordance with PART 97 (Amateur Radio Service) of the Federal Communication Commission rules.

Test Methodology

All tests and measurements indicated in this document were performed in accordance with the Code of federal Regulations Title 47 Part 2, Sub-part J as well as the following individual parts:

Part 97 – Amateur Radio Service

ANSI C63.26-2015

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Each test item follows test standards and with no deviation.

Measurement Uncertainty

Parameter		Uncertainty
Occupied Channel Bandwidth		109.2kHz(k=2, 95% level of confidence)
RF output power, conducted		0.86dB(k=2, 95% level of confidence)
Unwanted Emissions, conducted		1.60dB(k=2, 95% level of confidence)
Radiated Emissions	9kHz - 30MHz	3.60dB(k=2, 95% level of confidence)
	30MHz~200MHz (Horizontal)	5.32dB(k=2, 95% level of confidence)
	30MHz~200MHz (Vertical)	5.43dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Horizontal)	5.77dB(k=2, 95% level of confidence)
	200MHz~1000MHz (Vertical)	5.73dB(k=2, 95% level of confidence)
	1GHz - 6GHz	5.34dB(k=2, 95% level of confidence)
	6GHz - 18GHz	5.40dB(k=2, 95% level of confidence)
	18GHz - 40GHz	5.64dB(k=2, 95% level of confidence)
Temperature		±1℃
Humidity		±1%
Supply voltages		±0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West) , 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 715558, the FCC Designation No. : CN5045.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

Mode Type	Emission Designator#	Amateur Band#	Operation Frequency Range (MHz)	Test Frequency (MHz)
Transmit	F3E F1D A1A A3A A3E J3E J1D J3C J3F	160 m	1.8-2	1.8
		80 m	3.5-3.6	3.55
		60 m	5.3305-5.4064	5.357
		40 m	7-7.3	7.05
		30 m	10.1-10.15	10.1
		20 m	14-14.35	14.267
		17 m	18.068-18.168	18.1
		15 m	21-21.45	21
		12 m	24.89-24.99	24.9
		10 m	28-29.7	28.5
		6 m	50-54	51
Note: The Emission Designator and Amateur Band were provided by the applicant.				

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

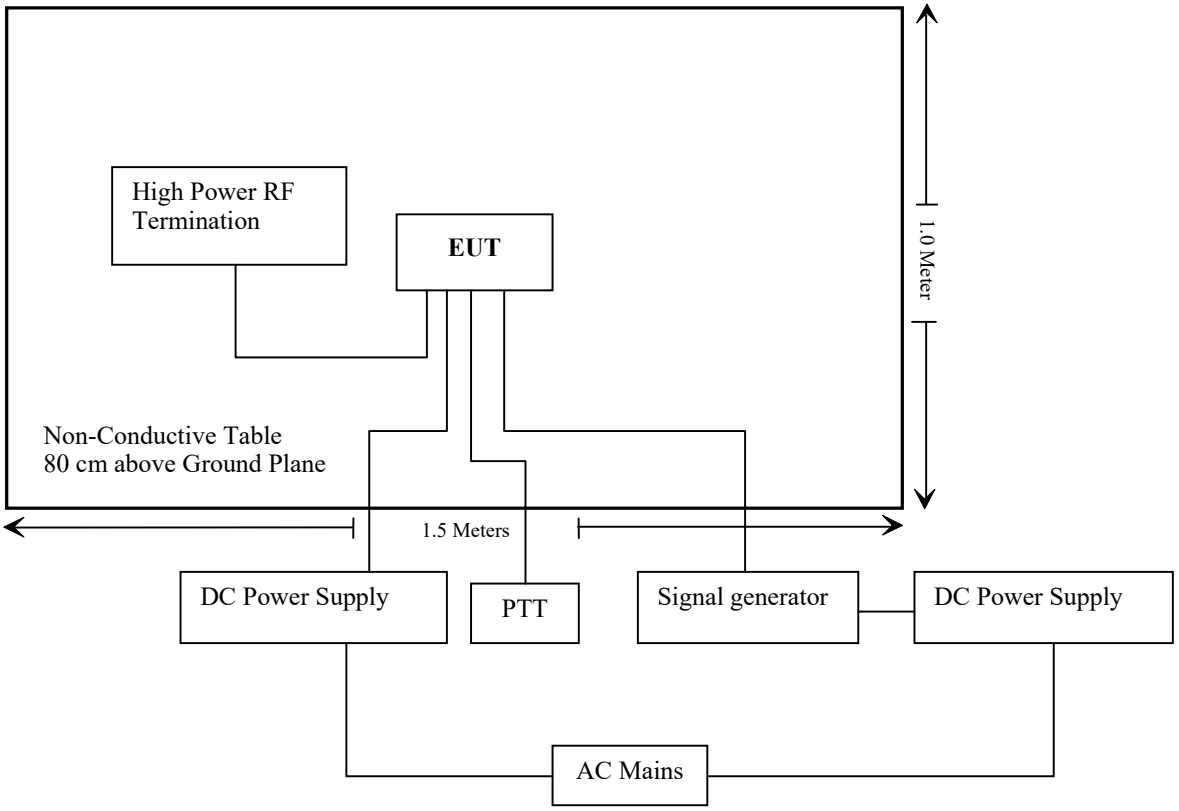
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
XIEGU	Signal generator	X6100	6D122317
Unknown	High Power RF Termination	635R	58B83464R01
Instek	DC Power Supply	GPS-3030DD	EM832096
Chroma	DC Power Supply	62012P	ANM000000742
XIEGU	PTT	E20395	Unknown

External I/O Cable

Cable Description	Length (m)	From Port	To
Un-shielded Detachable AC Cable	1.5	AC Mains	DC Power Supply
Un-shielded Detachable DC Cable	1.0	EUT	DC Power Supply
Un-shielded Detachable SL16-K Cable	2.0	EUT	High Power RF Termination
Un-shielded Detachable ACC Cable	1.2	EUT	PTT
Un-shielded Detachable SL16-K Cable	1.2	Signal generator	EUT

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant
§97.313&97.317(a)(1)(2)(3)	RF Output Power and Gain	Compliant
§2.1051& §97.307(d)(e) &97.317(a)(1)	Spurious emissions at antenna terminals	Compliant
§2.1053 & §97.307(d)(e) &97.317(a)(1)	Field strength of spurious radiation	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Radiated Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESR3	102455	2024/12/04	2025/12/03
Sonoma instrument	Pre-amplifier	310 N	186238	2025/04/29	2026/04/28
Sunol Sciences	Broadband Antenna	JB1	A040904-1	2023/07/20	2026/07/19
BACL	Active Loop Antenna	1313-1A	4031911	2024/05/14	2027/05/13
Unknown	Cable	Chamber A Cable 1	N/A	2025/04/29	2026/04/28
Unknown	Cable	XH500C	J-10M-A	2025/04/29	2026/04/28
COM-POWER	Dipole Antenna	3121C	9209-860	NCR	NCR
Agilent	Signal Generator	N5183A	MY50140588	2024/09/13	2025/09/12
RF Conducted Test					
Rohde & Schwarz	Spectrum Analyzer	FSU26	200120	2024/12/04	2025/12/03
Rohde&Schwarz	Spectrum Analyzer	FSV40-N	102259	2024/12/04	2025/12/03
Keysight	MXG Vector Signal Generator	N5182B	MY53051503	2024/12/04	2025/12/03
WEINSCHEL	Power Splitter	1515	RH476	2024/06/27	2025/06/26
WEINSCHEL	Power Splitter	1515	RH476	2025/06/26	2026/06/25
JFW	30dB Attenuator	50FH-030-100 RF	F-03-EM032	2024/06/27	2025/06/26
JFW	30dB Attenuator	50FH-030-100 RF	F-03-EM032	2025/06/26	2026/06/25
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM119	2024/06/27	2025/06/26
WEINSCHEL	3dB Attenuator	Unknown	F-03-EM119	2025/06/26	2026/06/25
instek	DC Power Supply	GPS-3030DD	EM832096	NCR	NCR
Fluke	Digital Multimeter	287	19000011	2025/04/29	2026/04/28
Micro-Tronics	RF Cable	8082176	W6111	2024/06/27	2025/06/26
Micro-Tronics	RF Cable	8082176	W6111	2025/06/26	2026/06/25

*** Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §1.1310 & §2.1091 –MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Applicable Standard

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

Limits for Occupational/Controlled Exposure				
Frequency Range (MHz)	**Electric Field Strength (E) (V/m)**	**Magnetic Field Strength (H) (A/m)**	**Power Density (S) (mW/cm2)**	**Averaging Time |E|, |H| or S (minutes)**
0.3- 3.0	614	1.63	*(100)	6
3.0 - 30	1842/f	4.89/f	*(900/f²)	6
30-300	61.4	0.163	1.0	6
300-1500	/	/	f/300	6
1500-100,000	/	/	5	6

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Result

Calculation formula:

Prediction of power density at the distance of the applicable MPE limit
$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm^2);
P = power input to the antenna (in appropriate units, e.g., mW);
G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;
R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

Calculated Data:

For worst case:

Frequency (MHz)	Antenna Gain#		Max Tune-up Power# (W)	Evaluation Distance (cm)	Power Density (mW/cm^2)	MPE Limit (mW/cm^2)
	(dBi)	(numeric)				
1.8-29.7	14.0	25.12	100	450	0.9872	1.0
50-54	14.0	25.12	60	450	0.5923	1.0

Note: The tune up conducted power and antenna gain was declared by the applicant.

To maintain compliance with the FCC's RF exposure guidelines, place the equipment at least 4.5m from nearby persons.

Result: Compliant.

FCC §97.313 &97.317(a)(1) (2) (3)– RF OUTPUT POWER and GAIN

Applicable Standard

FCC §97.313&97.317(a)(1)(2)

According to §97.313(b), No station may transmit with a transmitter power exceeding 1.5 kW PEP.

According to §97.313(c), No station may transmit with a transmitter power output exceeding 200 W PEP:

(1) On the 10.10-10.15 MHz segment;

(2) On the 3.525-3.60 MHz, 7.025-7.125 MHz, 21.025-21.20 MHz, and 28.0-28.5 MHz segment when the control operator is a Novice Class operator or a Technician Class operator; or

(3) The 7.050-7.075 MHz segment when the station is within ITU Regions 1 or 3.

According to §97.313(c), No station may transmit with an effective radiated power (ERP) exceeding 100 W PEP on the 60 m band. For the purpose of computing ERP, the transmitter PEP will be multiplied by the antenna gain relative to a half-wave dipole antenna. A half-wave dipole antenna will be presumed to have a gain of 1 (0 dBd). Licensees using other antennas must maintain in their station records either the antenna manufacturer's data on the antenna gain or calculations of the antenna gain.

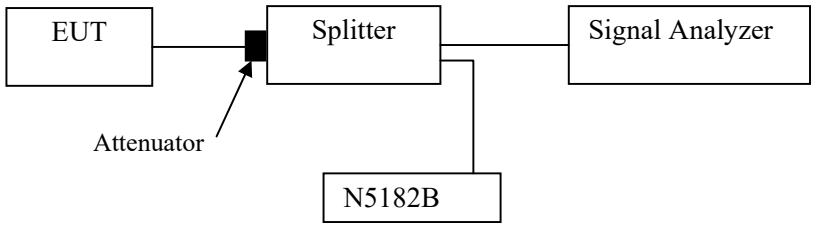
According to §97.317(a)(1), Satisfy the spurious emission standards of § 97.307 (d) or (e) of this part, as applicable, when the amplifier is operated at the lesser of 1.5 kW PEP or its full output power and when the amplifier is placed in the “standby” or “off” positions while connected to the transmitter.

According to §97.317(a)(2), Not be capable of amplifying the input RF power (driving signal) by more than 15 dB gain. Gain is defined as the ratio of the input RF power to the output RF power of the amplifier where both power measurements are expressed in peak envelope power or mean power.

According to §97.317(a)(3), Exhibit no amplification (0 dB gain) between 26 MHz and 28 MHz.

Test Procedure

According to ANSI C63.26-2015.



Test Data

Environmental Conditions

Temperature:	25.4~26.1 ℃
Relative Humidity:	48 ~55%
ATM Pressure:	100.5~100.8 kPa

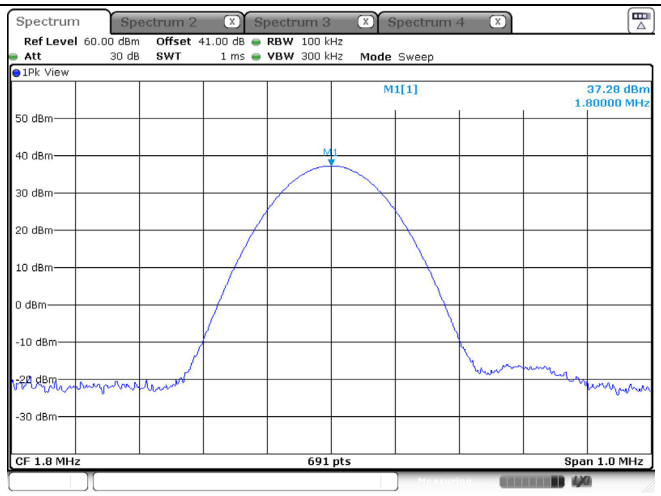
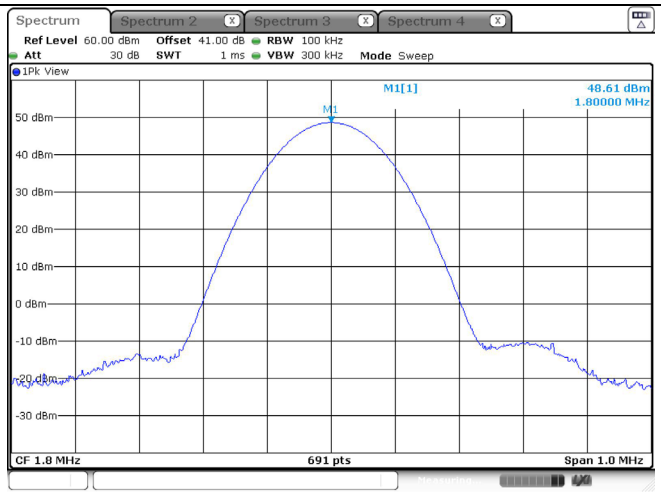
The testing was performed by Cheeb Huang from 2025-06-04 to 2025-07-09.

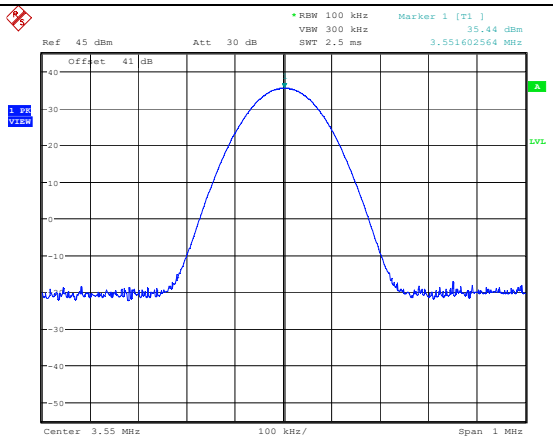
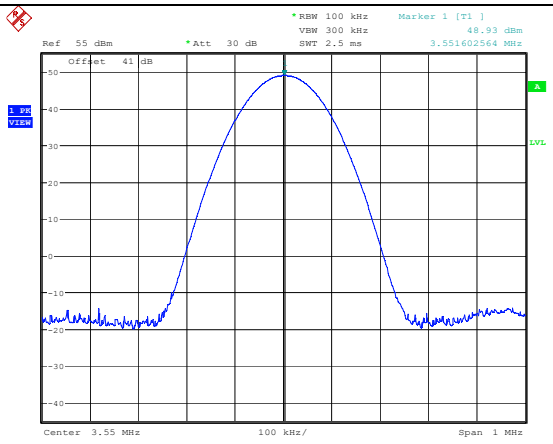
EUT operation mode: Transmitting

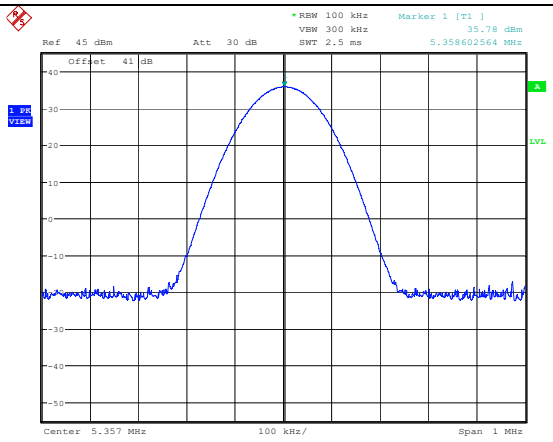
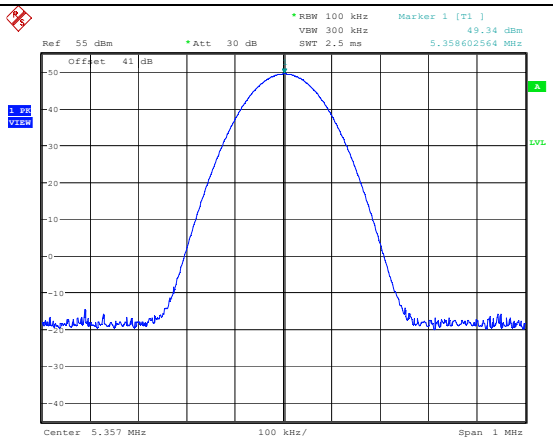
Test Result: Compliant.

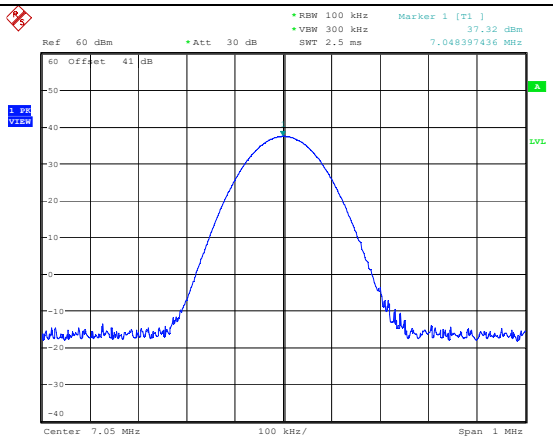
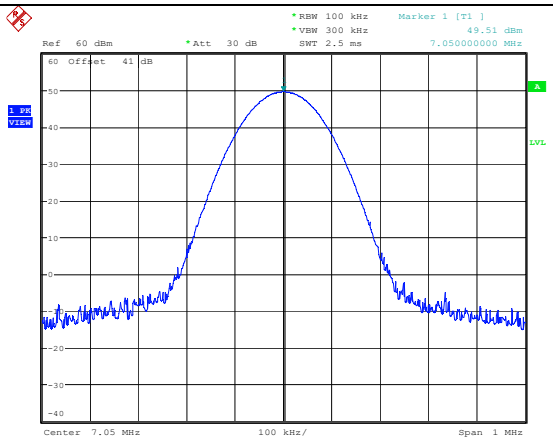
Frequency (MHz）	Power Input (dBm)	Power Output (dBm)	Gain (dB)	Limit (dB)
1.8	37.28	48.61	11.33	<15
3.55	35.44	48.93	13.49	<15
5.357	35.78	49.34	13.56	<15
7.05	37.32	49.51	12.19	<15
10.1	37.41	49.16	11.75	<15
14.267	37.33	48.75	11.42	<15
18.1	37.25	48.74	11.49	<15
21	37.16	48.50	11.34	<15
24.9	37.08	48.18	11.10	<15
28.5	37.08	47.89	10.81	<15
51	37.09	46.55	9.46	<15

Note 1: Gain(dB)= Power Output(dBm)-Power Input (dBm)
Note 2: The amplifier cannot operate on 26-28MHz.

Frequency:1.8MHz	
Input Power	
Output Power	

Frequency:3.55MHz	
Input Power	
Output Power	

Frequency:5.357MHz	
Input Power	
Output Power	

Frequency:7.05MHz	
Input Power	
Output Power	

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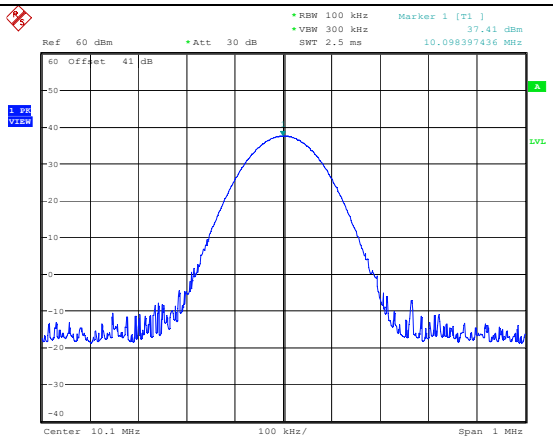
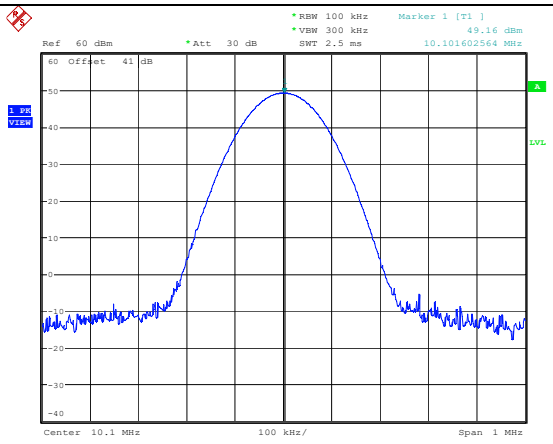
Input Power	
Output Power	

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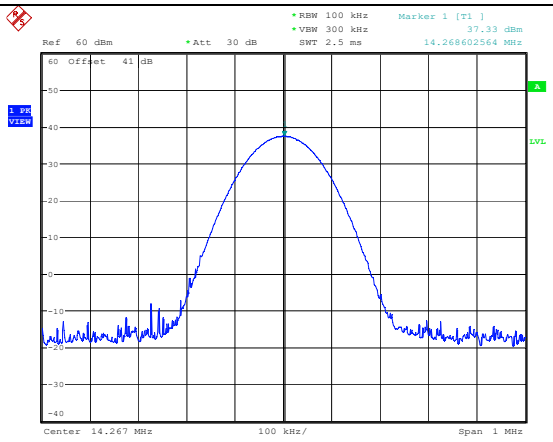
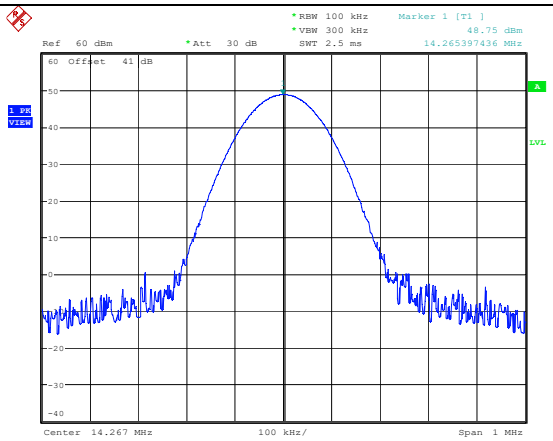
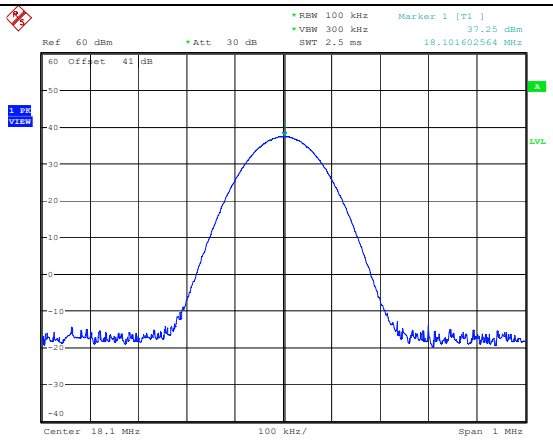
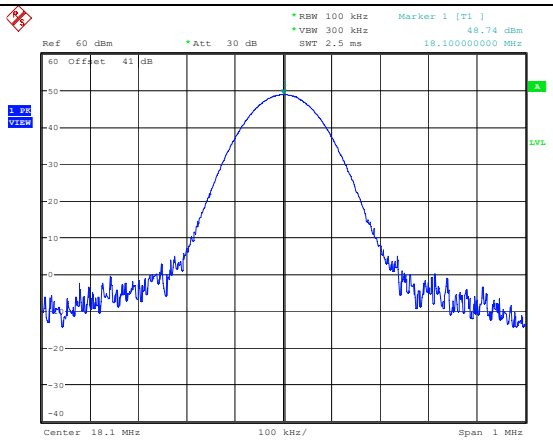
Input Power	
Output Power	

Frequency:18.1MHz	
Input Power	
Output Power	

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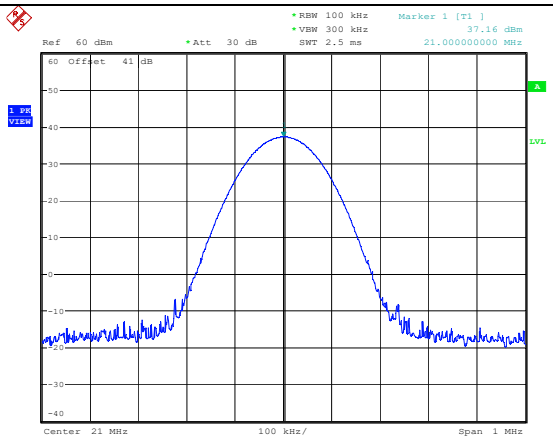
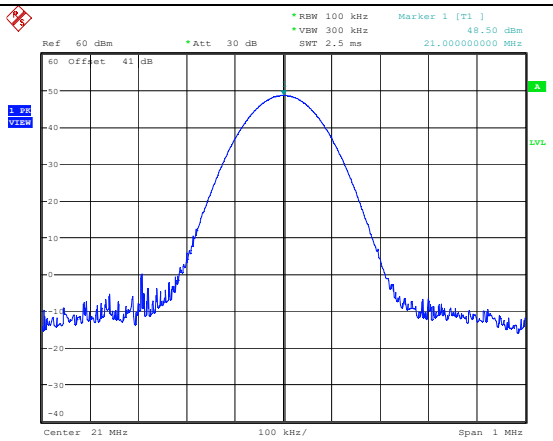
Input Power	
Output Power	

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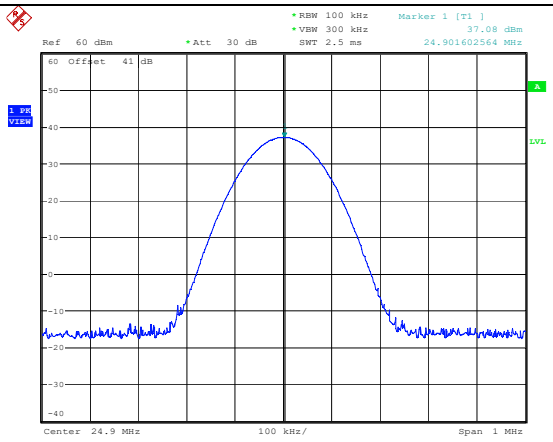
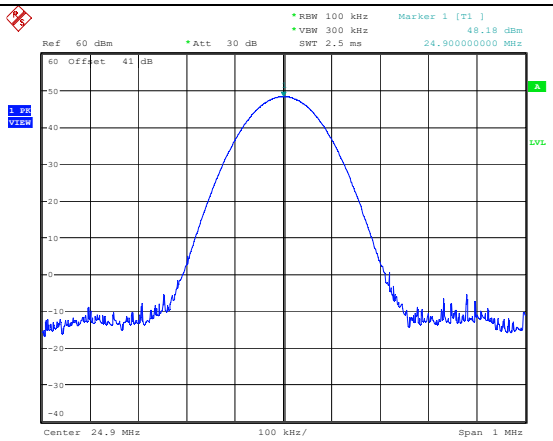
Input Power	
Output Power	

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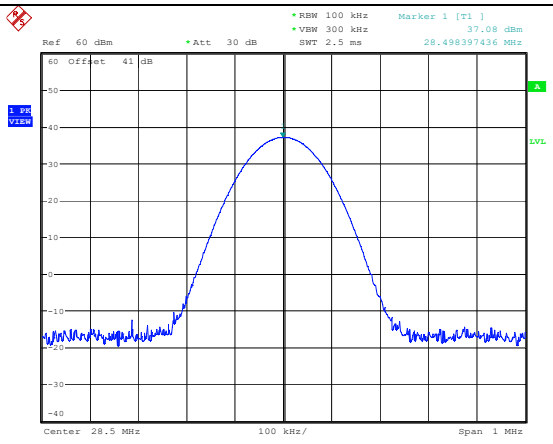
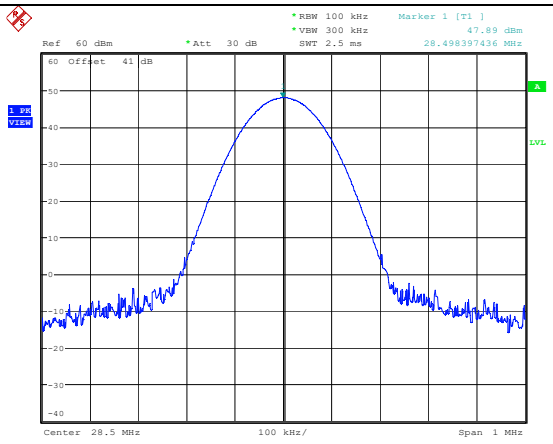
Input Power	
Output Power	

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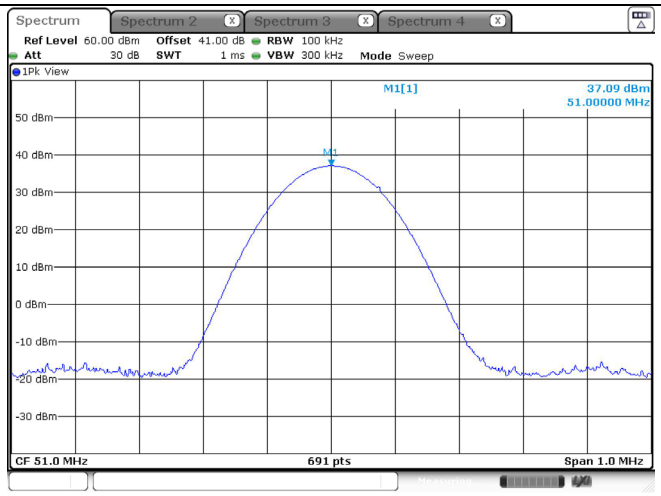
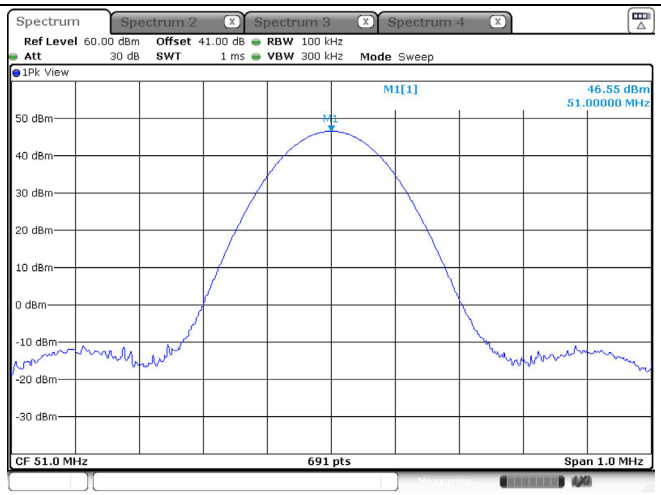
Input Power	
Output Power	

FCC §2.1051&97.307(d)(e) - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Applicable Standard

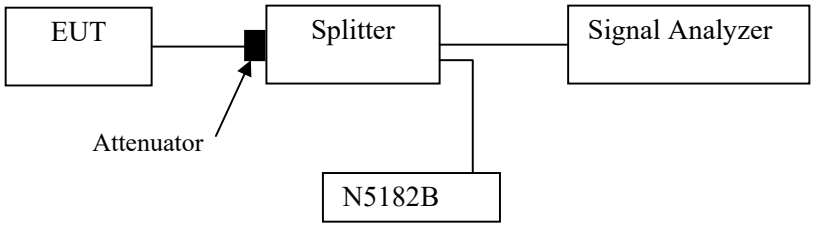
FCC §2.1053&97.307(d)(e)

According to §97.307(d), The mean power of any spurious emission from a station transmitter or external RF power amplifier transmitting on a frequency below 30 MHz must be at least 43 dB below the mean power of the fundamental emission.

According to §97.307(e), The mean power of any spurious emission from a station transmitter or external RF power amplifier transmitting on a frequency between 30-225 MHz must be at least 60 dB below the mean power of the fundamental. For a transmitter having a mean power of 25 W or less, the mean power of any spurious emission supplied to the antenna transmission line must not exceed 25 µW and must be at least 40 dB below the mean power of the fundamental emission, but need not be reduced below the power of 10 µW.

Test Procedure

According to ANSI C63.26-2015.



Test Data

Environmental Conditions

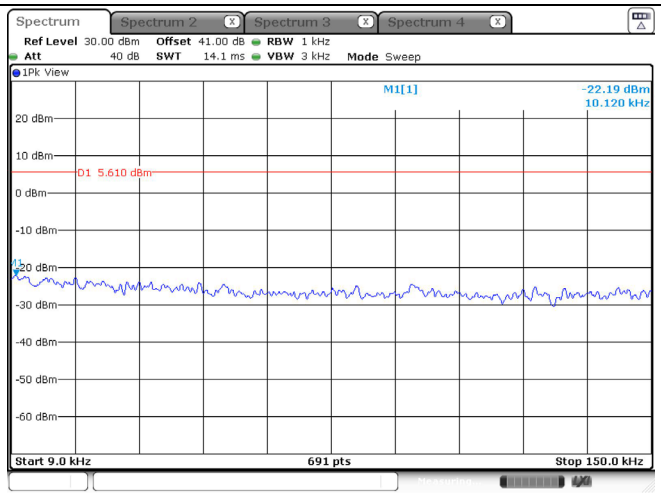
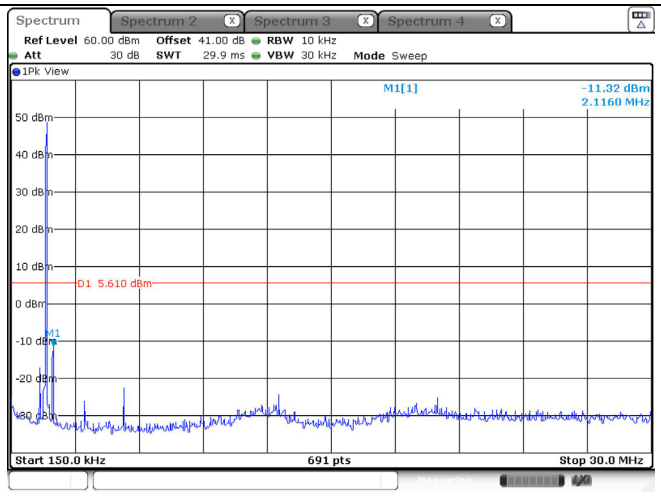
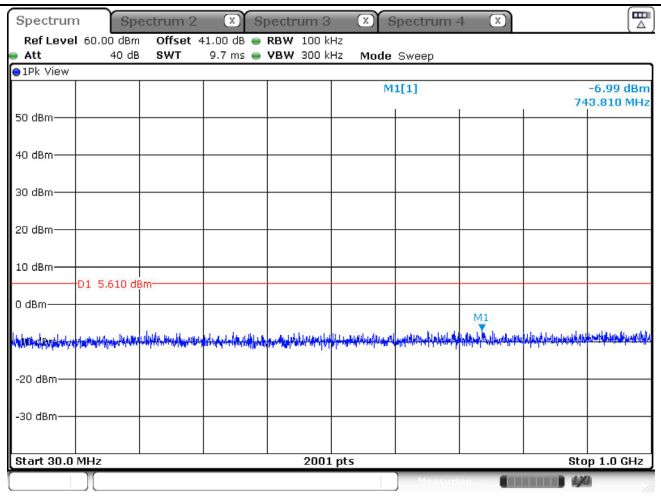
Temperature:	24.2~26.1℃
Relative Humidity:	52~55 %
ATM Pressure:	100.5 kPa

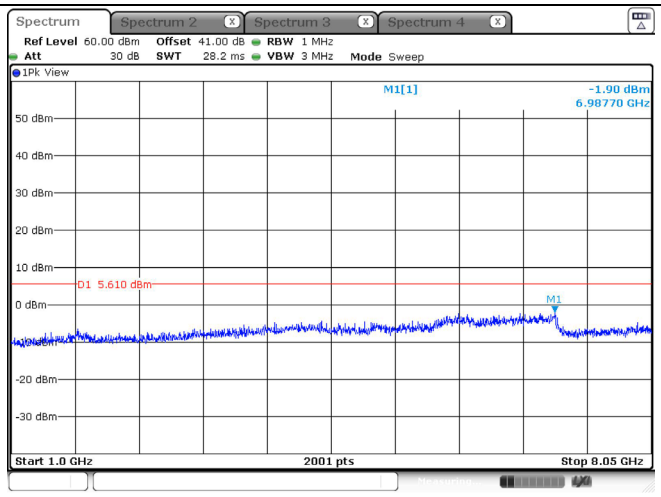
The testing was performed by Cheeb Huang from 2025-06-24 to 2025-07-09.

EUT operation mode: Transmitting

Test Result: Compliant.

Note: For 1.8-29.7MHz, Limit = (Power Output -43) dBm
For 50-54MHz, Limit = (Power Output -60) dBm
Power Output refer to the "RF Output Power and Gain".

Frequency:1.8MHz	
9kHz~150kHz	
150kHz~30MHz	
30MHz~1GHz	

1GHz~8.05GHz	
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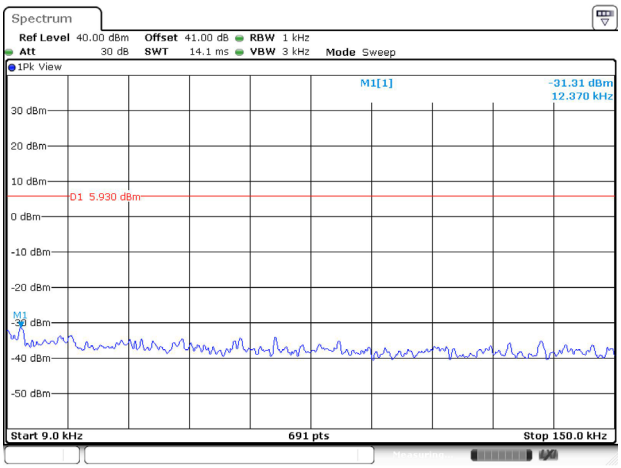
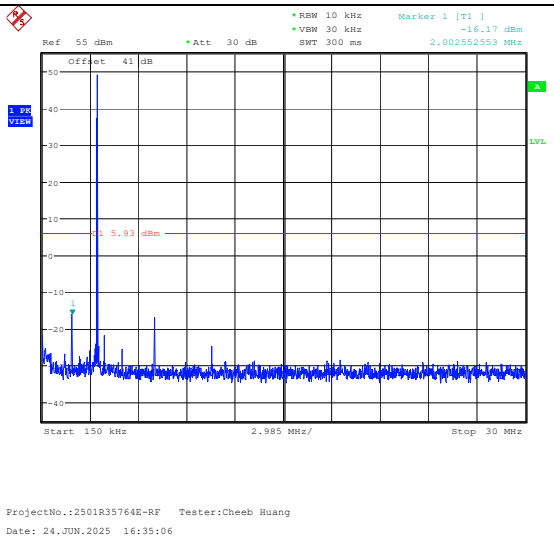
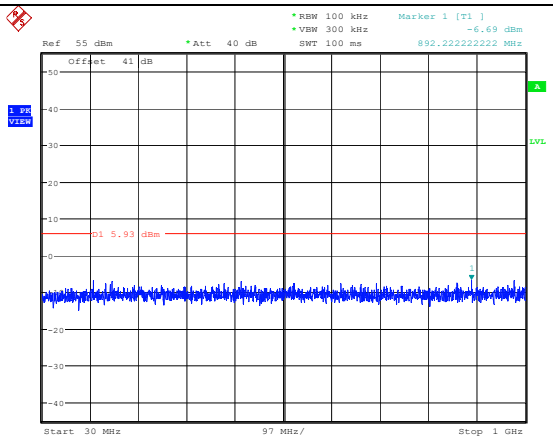
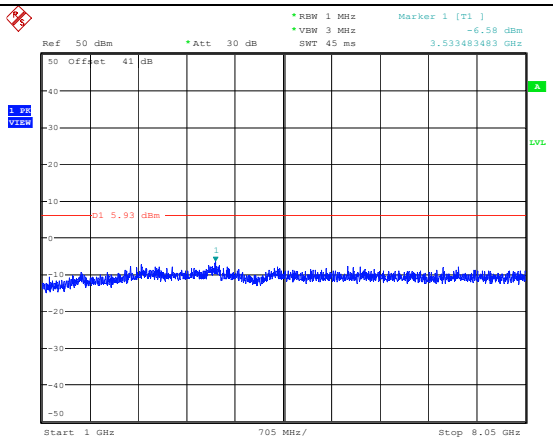
9kHz~150kHz	
150kHz~30MHz	

30MHz~1GHz	
1GHz~8.05GHz	
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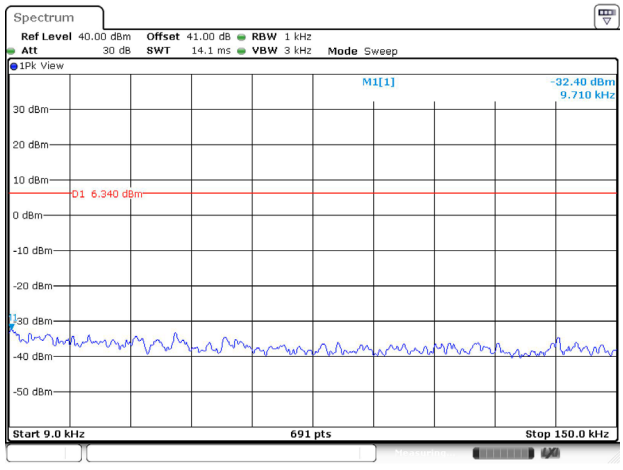
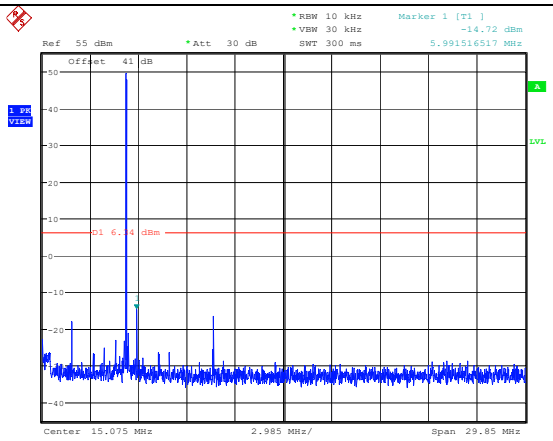
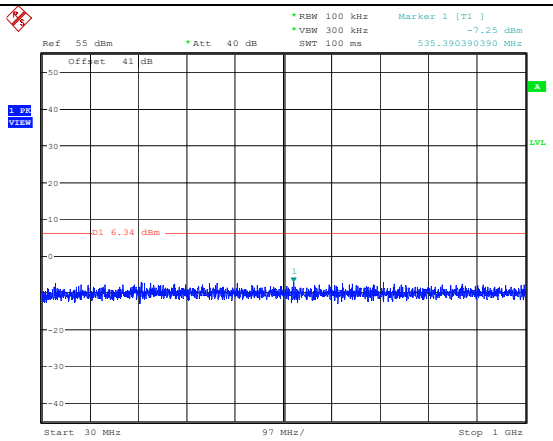
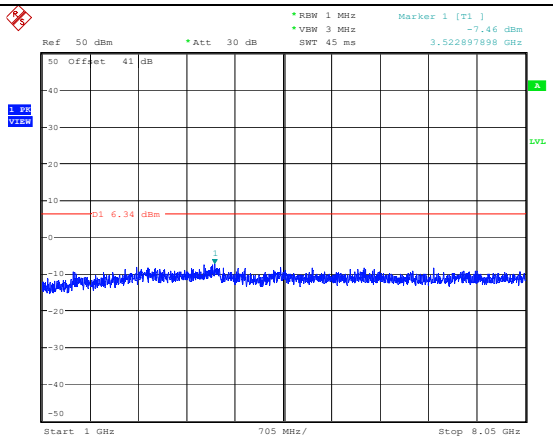
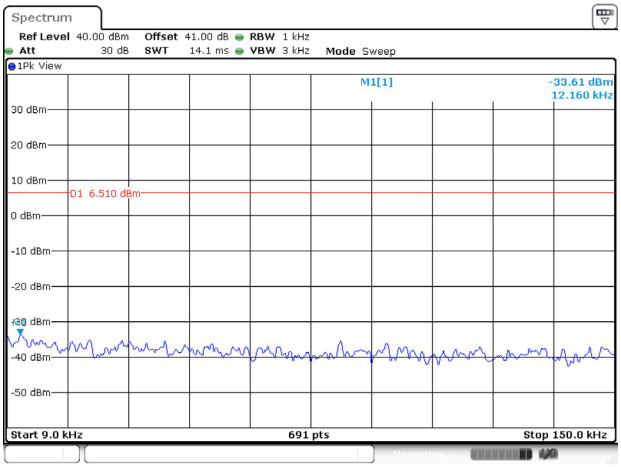
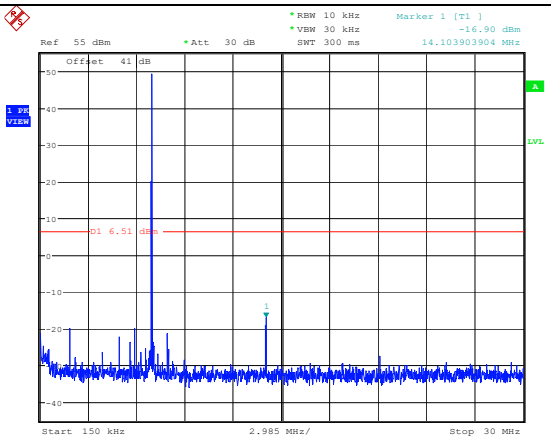
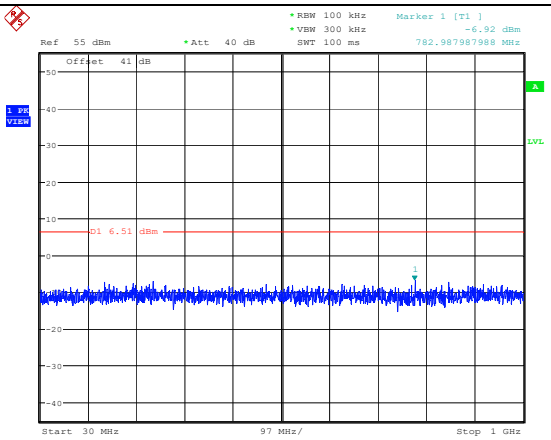
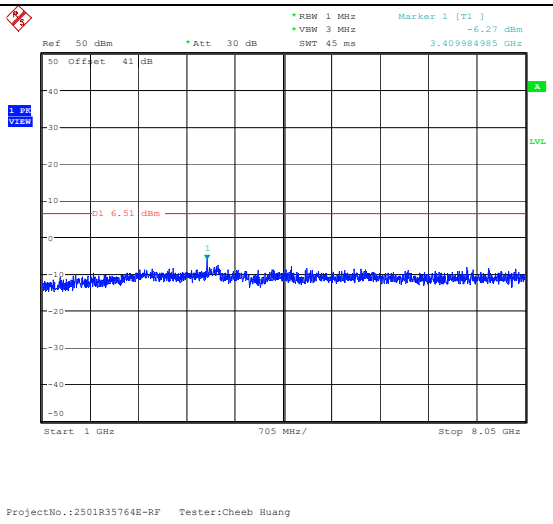
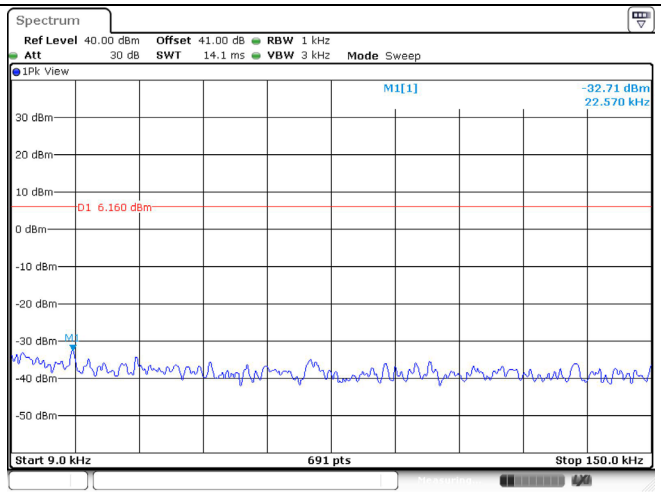
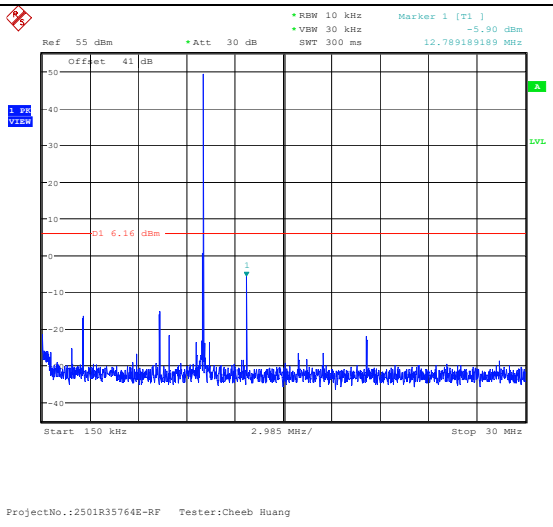
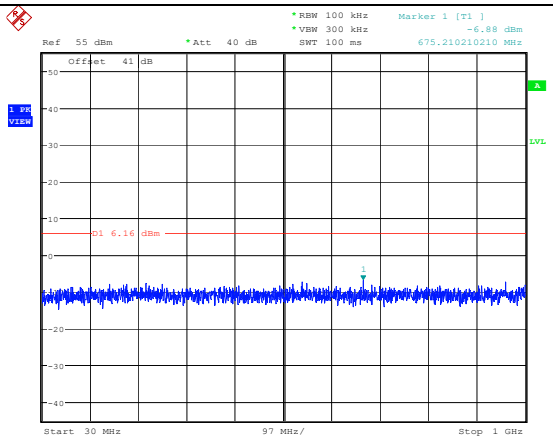
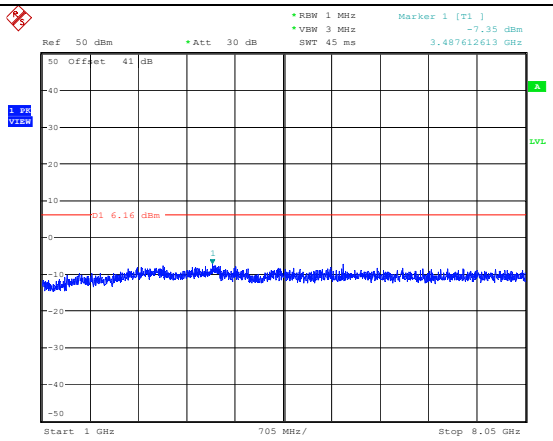
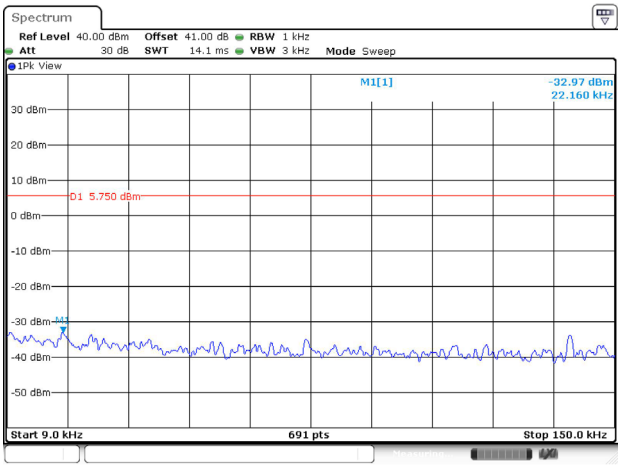
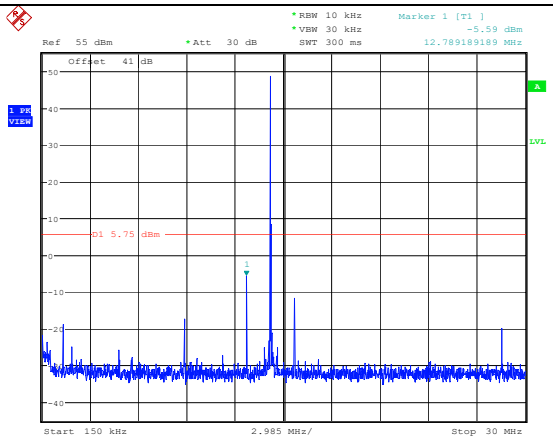
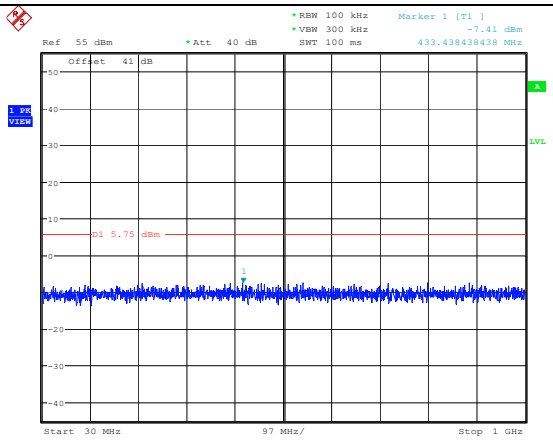
9kHz~150kHz	

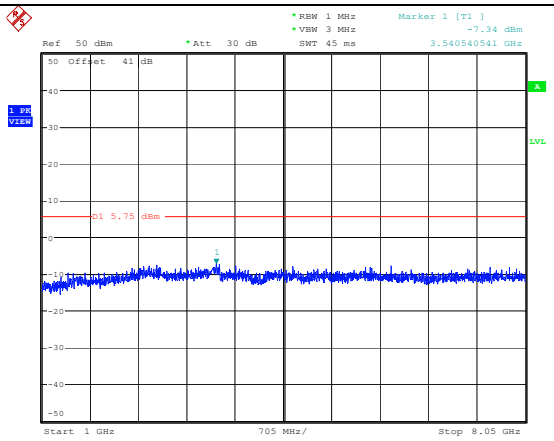
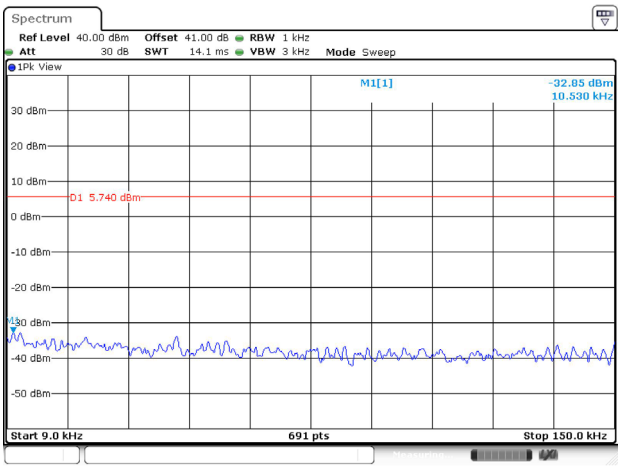
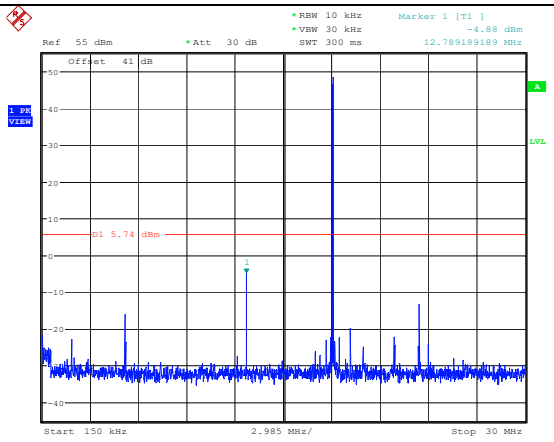
150kHz~30MHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 16:42:54
30MHz~1GHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 17:32:24
1GHz~8.05GHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 17:43:36

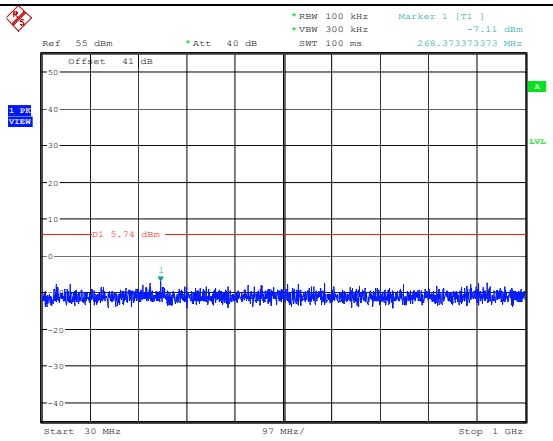
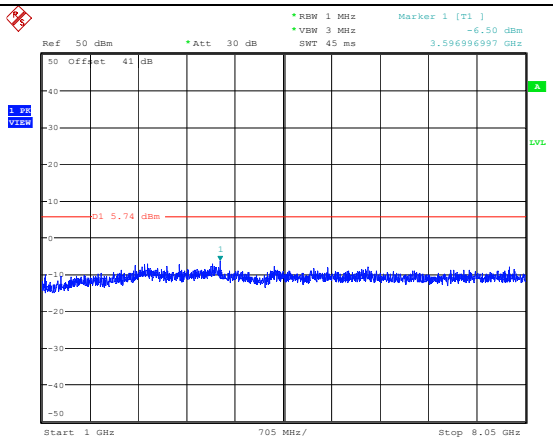
Frequency:7.05MHz	
9kHz~150kHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 27.JUN.2025 19:44:40
150kHz~30MHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 16:44:32
30MHz~1GHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 17:33:00

1GHz~8.05GHz	
Frequency:10.1MHz	
9kHz~150kHz	
150kHz~30MHz	

30MHz~1GHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 17:33:29
1GHz~8.05GHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 17:42:47

Frequency:14.267MHz	
9kHz~150kHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 27.JUN.2025 19:46:41
150kHz~30MHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 16:49:38
30MHz~1GHz	 ProjectNo.:2501R35764E-RF Tester:Cheeb Huang Date: 24.JUN.2025 17:34:05

1GHz~8.05GHz	
Frequency:18.1MHz	
9kHz~150kHz	
150kHz~30MHz	

30MHz~1GHz	
1GHz~8.05GHz	
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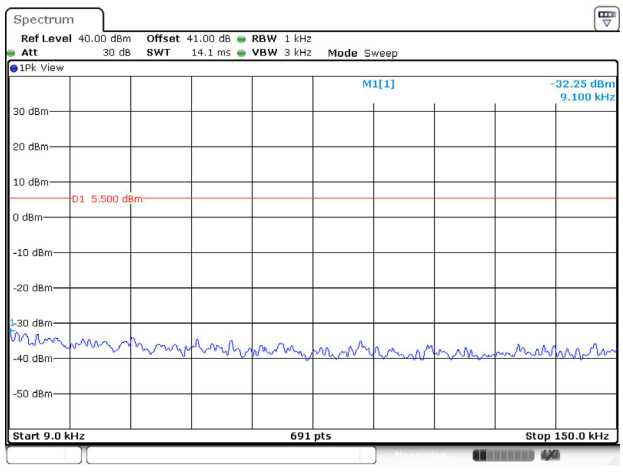
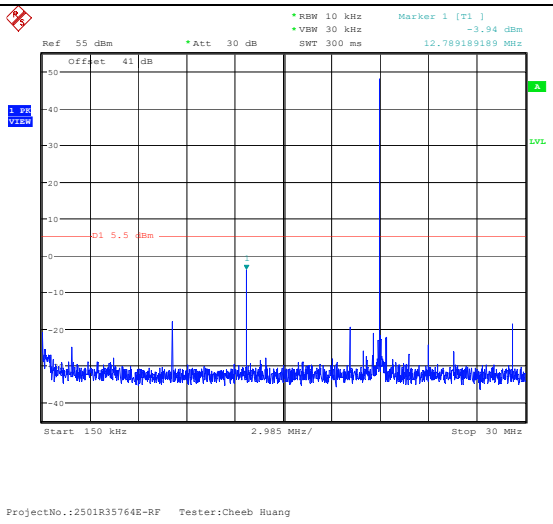
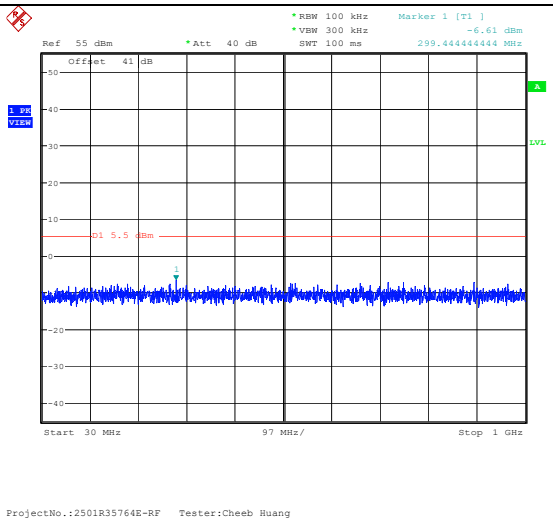
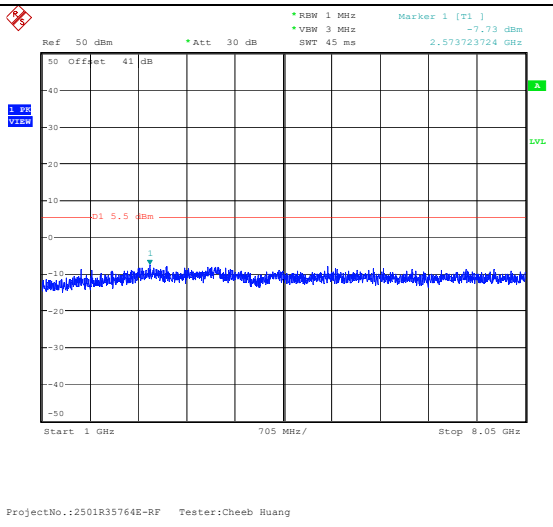
9kHz~150kHz	

150kHz~30MHz	
30MHz~1GHz	
1GHz~8.05GHz	

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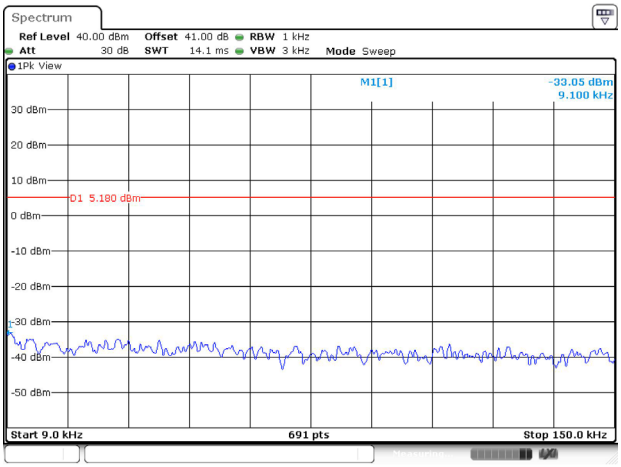
<tr><td>9kHz~150kHz</td><td> 
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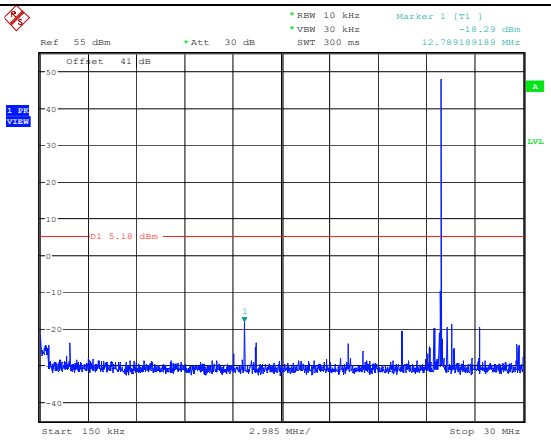
<tr><td>150kHz~30MHz</td><td> 
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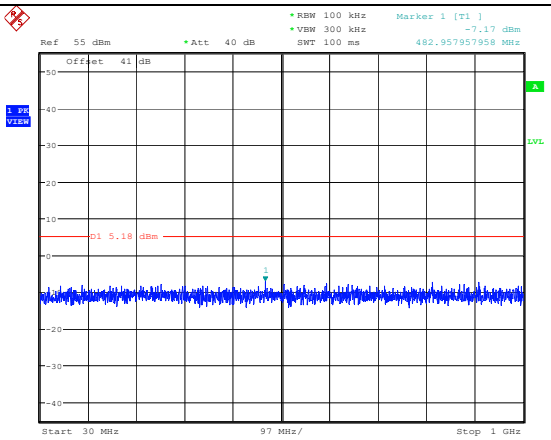
<tr><td>30MHz~1GHz</td><td> 
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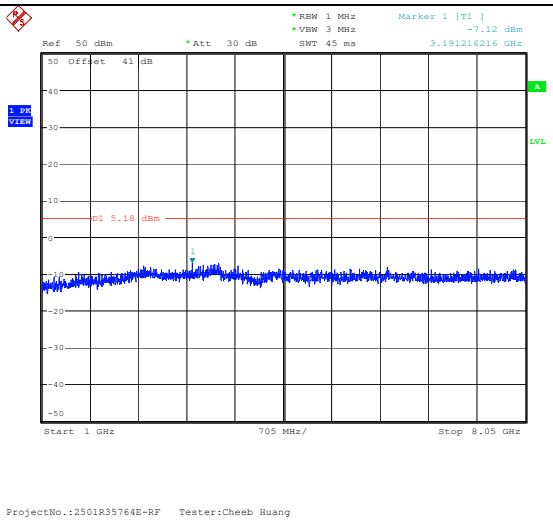
1GHz~8.05GHz	
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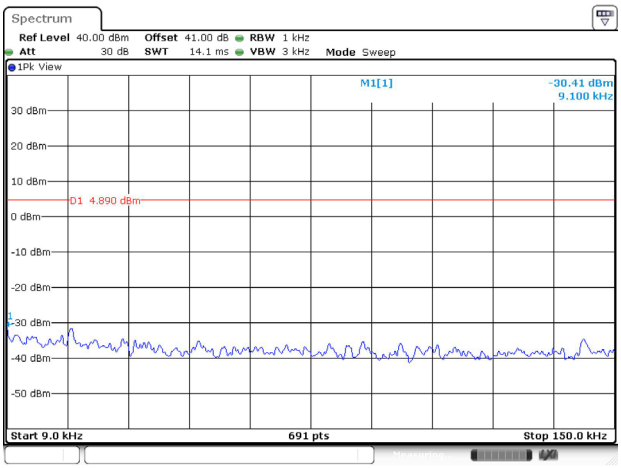
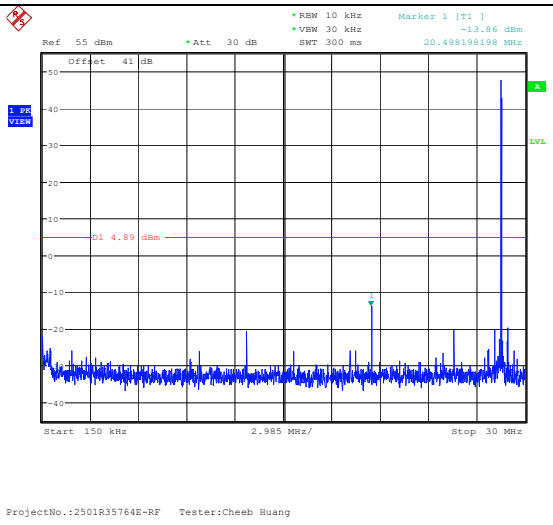
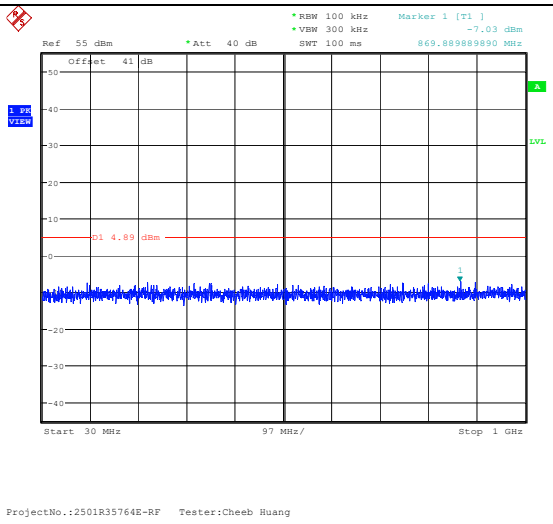
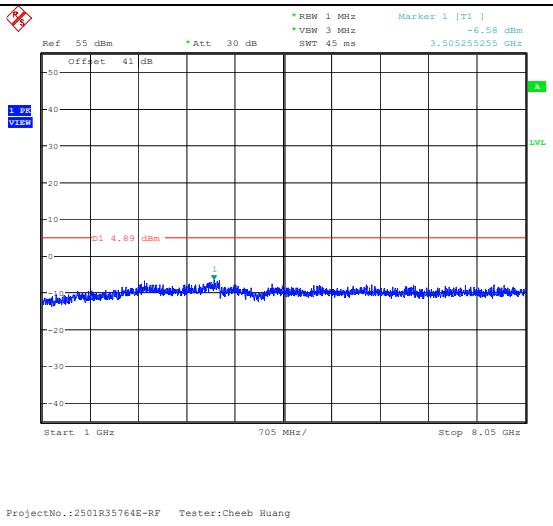
9kHz~150kHz	
150kHz~30MHz	

30MHz~1GHz	
1GHz~8.05GHz	
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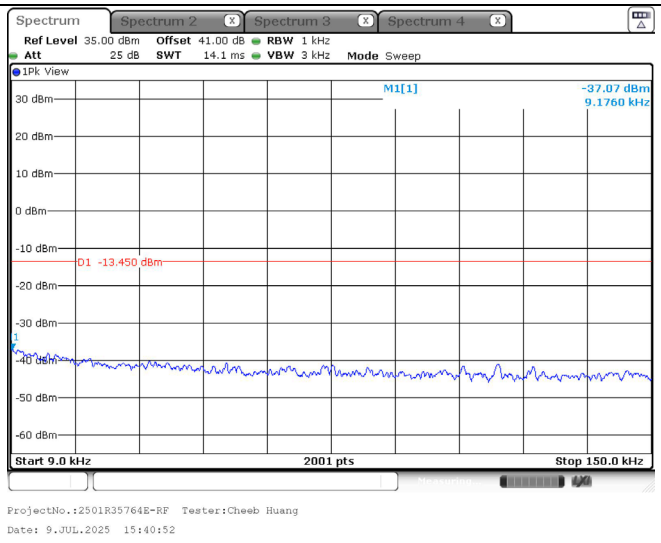
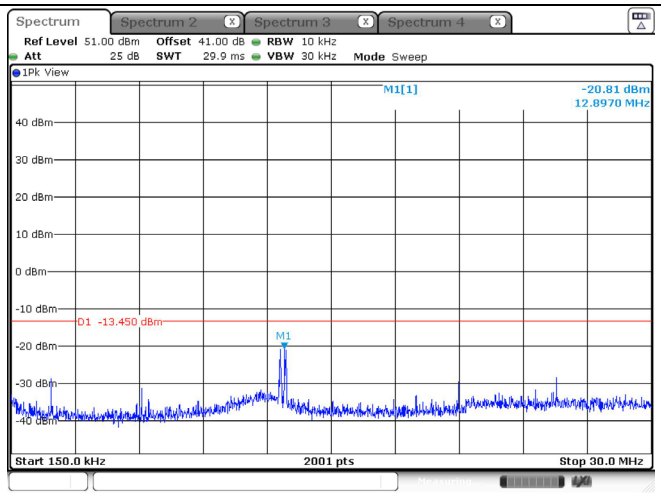
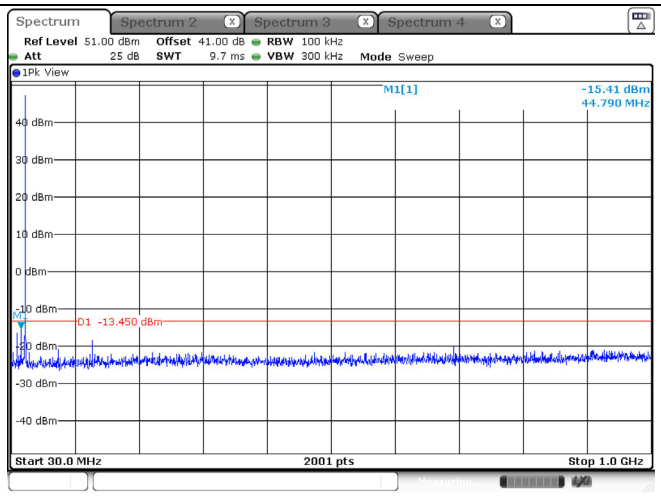
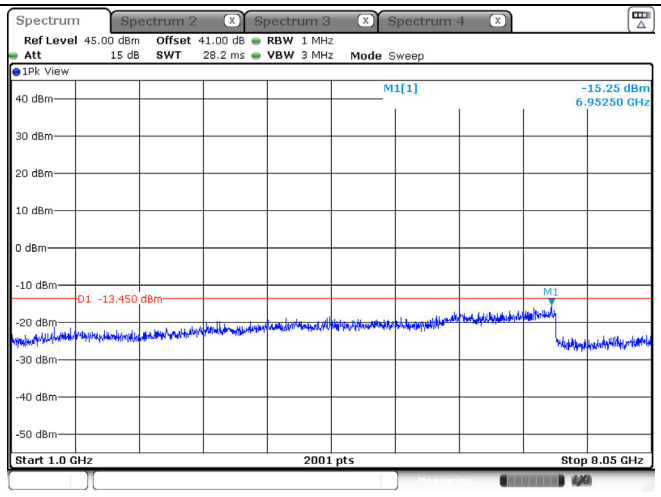
9kHz~150kHz	

150kHz~30MHz	
30MHz~1GHz	
1GHz~8.05GHz	

FCC §2.1053 & §97.307(d)(e) - RADIATED SPURIOUS EMISSION

Applicable Standard

FCC §2.1053 & §97.307(d)(e)

Test Procedure

The transmitter was placed on a wooden turntable, and it was transmitting into a non-radiating load, which was also placed on the turntable.

The measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and polarization as well as EUT azimuth were varied in order to identify the maximum level of emissions from the EUT .The test was performed by placing the EUT on 3-orthogonal axis.

The frequency range up to teeth harmonic of the fundamental frequency was investigated.

Remove the EUT and replace it with substitution antenna. A signal generator was connected to the substitution antenna by a non-radiating cable. The absolute levels of the spurious emissions were measured by the substitution.

Spurious emissions in dB =10 1g (TXpwr in Watts/0.001)-the absolute level

Test Data

Environmental Conditions

Temperature:	24.7 ℃
Relative Humidity:	49 %
ATM Pressure:	100.0 kPa

The testing was performed by Anson Su on 2025-06-10.

Test mode: Transmitting

Worst case as below:

Below 30MHz:

Frequency (MHz)	Reading (dBµV)	Detector	Factor (dB/m)	Corrected Amplitude (dBµV/m@3m)	ERP (dBm)	Limit (dBm)	Margin (dB)
1.8 MHz							
3.60	33.24	Peak	-2.48	30.76	-66.65	5.61	72.26
5.40	33.87	Peak	-2.84	31.03	-66.38	5.61	71.99
7.20	32.97	Peak	-2.96	30.01	-67.4	5.61	73.01
3.55 MHz							
7.10	33.51	Peak	-2.95	30.56	-66.85	5.93	72.78
10.65	33.04	Peak	-2.80	30.24	-67.17	5.93	73.10
14.20	34.14	Peak	-2.66	31.48	-65.93	5.93	71.86
5.357 MHz							
10.714	33.37	Peak	-2.80	30.57	-66.84	6.34	73.18
16.071	34.25	Peak	-2.32	31.93	-65.48	6.34	71.82
21.428	33.82	Peak	-3.10	30.72	-66.69	6.34	73.03
7.05 MHz							
14.10	43.08	Peak	-2.68	40.40	-57.01	6.51	63.52
21.15	34.85	Peak	-3.10	31.75	-65.66	6.51	72.17
28.20	33.73	Peak	-2.89	30.84	-66.57	6.51	73.08
10.1 MHz							
20.2	33.85	Peak	-3.05	30.80	-66.61	6.16	72.77
14.267 MHz							
28.534	33.25	Peak	-2.86	30.39	-67.02	5.75	72.77

Note:
Factor = Antenna factor (RX) + Cable Loss–Amplifier Factor
Corrected Amplitude = Factor + Receiver Reading
ERP=EIRP (dBm)-2.15, EIRP (dBm) = E (dBµV/m) + 20log(D) − 104.8, where D is 3m.
Margin = Limit- ERP

For the radiated spurious emission below 30MHz, only the worst case (Parallel) was recorded.

For 1.8-29.7MHz, Limit = (Power Output -43) dBm
Power Output refer to the “RF Output Power and Gain”.

Above 30MHz:

Frequency (MHz)	Receiver Reading (dBµV)	Polar (H/V)	Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
10.1 MHz								
30.3	34.15	H	-49.2	0.75	0.0	-49.95	6.16	56.11
30.3	34.65	V	-42.8	0.75	0.0	-43.55	6.16	49.71
40.4	32.85	H	-50.5	0.75	0.0	-51.25	6.16	57.41
40.4	33.07	V	-44.3	0.75	0.0	-45.05	6.16	51.21
14.267 MHz								
42.801	33.86	H	-49.5	0.75	0.0	-50.25	5.75	56.00
42.801	34.21	V	-43.2	0.75	0.0	-43.95	5.75	49.70
57.068	33.52	H	-49.9	0.75	0.0	-50.65	5.75	56.40
57.068	34.01	V	-43.4	0.75	0.0	-44.15	5.75	49.90
18.1 MHz								
36.2	54.60	H	-59.8	0.75	0.0	-60.55	5.74	66.29
36.2	60.02	V	-48.4	0.75	0.0	-49.15	5.74	54.89
54.3	34.56	H	-79.8	0.75	0.0	-80.55	5.74	86.29
54.3	35.17	V	-73.2	0.75	0.0	-73.95	5.74	79.69
72.4	33.25	H	-81.1	0.75	0.0	-81.85	5.74	87.59
72.4	34.08	V	-74.3	0.75	0.0	-75.05	5.74	80.79
21 MHz								
42.0	42.56	H	-71.8	0.75	0.0	-72.55	5.50	78.05
42.0	50.02	V	-58.4	0.75	0.0	-59.15	5.50	64.65
63.0	45.65	H	-68.7	0.75	0.0	-69.45	5.50	74.95
63.0	50.47	V	-57.9	0.75	0.0	-58.65	5.50	64.15
84.0	40.03	H	-74.4	0.75	0.0	-75.15	5.50	80.65
84.0	46.85	V	-61.6	0.75	0.0	-62.35	5.50	67.85
24.9 M Hz								
49.8	38.56	H	-75.8	0.75	0.0	-76.55	5.18	81.73
49.8	50.26	V	-58.1	0.75	0.0	-58.85	5.18	64.03
74.7	48.75	H	-65.6	0.75	0.0	-66.35	5.18	71.53
74.7	64.25	V	-44.2	0.75	0.0	-44.95	5.18	50.13
99.6	44.25	H	-70.1	0.75	0.0	-70.85	5.18	76.03
99.6	56.14	V	-52.3	0.75	0.0	-53.05	5.18	58.23
28.5 MHz								
57.0	42.56	H	-71.8	0.75	0.0	-72.55	4.89	77.44
57.0	46.36	V	-62.0	0.75	0.0	-62.75	4.89	67.64
85.5	65.52	H	-48.9	0.75	0.0	-49.65	4.89	54.54
85.5	72.63	V	-35.8	0.75	0.0	-36.55	4.89	41.44
114.0	59.61	H	-54.8	0.75	0.0	-55.55	4.89	60.44
114.0	68.87	V	-39.5	0.75	0.0	-40.25	4.89	45.14

Frequency (MHz)	Receiver Reading (dBµV)	Polar (H/V)	Substituted Level (dBm)	Cable Loss (dB)	Antenna Gain (dBd)	Absolute Level (dBm)	Limit (dBm)	Margin (dB)
51 MHz								
102.0	72.03	H	-42.4	0.75	0.0	-43.15	-13.45	29.70
102.0	75.26	V	-33.1	0.75	0.0	-33.85	-13.45	20.40
153.0	76.85	H	-37.5	0.75	0.0	-38.25	-13.45	24.80
153.0	80.03	V	-28.4	0.75	0.0	-29.15	-13.45	15.70
204.0	68.54	H	-45.9	0.75	0.0	-46.65	-13.45	33.20
204.0	70.25	V	-38.2	0.75	0.0	-38.95	-13.45	25.50

Note:
Absolute Level = Substituted Level - Cable loss + Antenna Gain
Margin = Limit- Absolute Level

For 1.8-29.7MHz, Limit = (Power Output -43) dBm
For 50-54MHz, Limit = (Power Output -60) dBm
Power Output refer to the “RF Output Power and Gain”.

EUT PHOTOGRAPHS

Please refer to the attachment 2501R35764E-EM External photo and 2501R35764E-EM Internal photo.

TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2501R35764E-RF Test Setup photo.

******* END OF REPORT *******