FCC Test Report

Report No.:	2405Z107560EB
Applicant:	Zhuhai Glory Technology Co., Ltd
Address:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China
Product Name:	WIRELESS NETWORK CAMERA
Product Model:	GL-228XK-I1V1B
Multiple Models:	GL-228XL-I1V1B
Trade Mark:	N/A
FCC ID:	2BMPT-228XK-I1V1B
Standards:	FCC CFR Title 47 Part 15C (§15.247)
Test Date:	2024-12-05 to 2025-02-13
Test Result:	Complied
Report Date:	2025-02-19

Reviewed by:	Frank Yin	**Approved by:**	Jacob Gong
	Frank Yin Project Engineer		Jacob Kong Manager

Prepared by:

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

NVLAP TESTING NVLAP LAB CODE 600335-0

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Revision History

Version No.	Issued Date	Description
00	*2025-02-19*	*Original*

Contents

1 General Information

1.1 Client Information

Applicant:	Zhuhai Glory Technology Co., Ltd
Address:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China
Manufacturer:	Zhuhai Glory Technology Co., Ltd
Address:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China

1.2 Product Description of EUT

The EUT is WIRELESS NETWORK CAMERA that contains Wi-Fi HaLow radio, this report covers the full testing of the Wi-Fi HaLow radio.

Sample Serial Number	2V9U-1 for CE&RE test, 2V9U-2 for RF test conducted test (assigned by WATC)
Sample Received Date	2024-12-02
Sample Status	Good Condition
Frequency Range	903.5-926.5MHz for 802.11ah(1MHz channel bandwidth) 905-925MHz for 802.11ah(2MHz channel bandwidth) 906-926MHz for 802.11ah(4MHz channel bandwidth) 908-924MHz for 802.11ah(8MHz channel bandwidth)
Maximum Conducted Peak Output Power	27.86dBm
Modulation Technology	OFDM
Spatial Streams	1T1R
Antenna Gain#	2.45dBi(It is provided by the applicant.)
Power Supply	DC 3.7V from battery or DC 5.0V from Adapter
Adapter Information	N/A
Modification	Sample No Modification by the test lab

1.3 Antenna information

15.203 requirement:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Device Antenna information:	

The Wi-Fi antenna is an external antenna which with unique antenna connector. Please see product external photos for details.

1.4 Measurement Uncertainty

Parameter		Expanded Uncertainty (Confidence of 95%(U = 2Uc(y)))
AC Power Lines Conducted Emissions		±3.14dB
Emissions, Radiated	Below 30MHz	±2.78dB
	Below 1GHz	±4.84dB
	Above 1GHz	±5.44dB
Emissions, Conducted		1.75dB
Conducted Power		0.74dB
Frequency Error		150Hz
Bandwidth		0.34%
Power Spectral Density		0.74dB
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.*		

1.5 Laboratory Location

World Alliance Testing & Certification (Shenzhen) Co., Ltd

No. 1002, East Block, Laobing Building, Xingye Road 3012, Xixiang street, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Tel: +86-755-29691511, Email: qa@watc.com.cn

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. : 463912, the FCC Designation No. : CN5040.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0160.

1.6 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 558074 D01 15.247 Meas Guidance v05r02

ANSI C63.10-2013

Unless otherwise stated there are no any additions to, deviations, or exclusions from the method

2 Description of Measurement

2.1 Test Configuration

Operating channels:(903.5MHz-926.5MHz, 1MHz bandwidth)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	903.5	9	911.5	17	919.5
2	904.5	10	912.5	18	920.5
3	905.5	11	913.5	19	921.5
4	906.5	12	914.5	20	922.5
5	907.5	13	915.5	21	923.5
6	908.5	14	916.5	22	924.5
7	909.5	15	917.5	23	925.5
8	910.5	16	918.5	24	926.5
According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	903.5	12	914.5	24	926.5

Operating channels:(905MHz-925MHz, 2MHz Bandwidth)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	905	5	913	9	921
2	907	6	915	10	923
3	909	7	917	11	925
4	911	8	919	/	/
According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	905	6	915	11	925

Operating channels:(906MHz-926MHz, 4MHz Bandwidth)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	906	3	914	5	922
2	910	4	918	6	926
According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	906	3	914	6	926

Operating channels:(908MHz-924MHz, 8MHz Bandwidth)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	908	2	916	3	924
According to ANSI C63.10-2013 chapter 5.6.1 Table 11 requirement, select lowest channel, middle channel, and highest channel in the frequency range in which device operates for testing. The detailed frequency points are as follows:					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
1	908	2	916	3	924

Test Mode:				
Transmitting mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.			
Exercise software#:	SecureCRT			
Mode	Data rate	Power Level Setting#		
		Low Channel	Middle Channel	High Channel
802.11ah(1MHz BW)	MCS0	11	11	11
802.11ah(2MHz BW)	MCS0	11	11	11
802.11ah(4MHz BW)	MCS0	13	13	13
802.11ah(8MHz BW)	MCS0	15	15	15
Note: The exercise software and the maximum power setting that provided by manufacturer.				

Worst-Case Configuration:

For radiated emissions, EUT was investigated in three orthogonal orientation, the worst-case orientation was recorded in report

For AC power line conducted emission and radiated emission 9kHz-30MHz was performed with the EUT transmits at the channel with highest output power as worst-case scenario.

For radiated emission 30MHz-1GHz was performed with the EUT transmits at the mode with highest output power as worst-case scenario.

For radiated emissions below 30MHz, three antenna orientations (parallel, perpendicular, gound-parallel) were tested, only record the worse case test data in report.

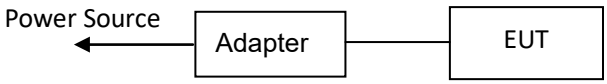
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
unknown	AC Adapter	unknown	unknown

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
Unknown	USB Cable	1.0	AC Adapter	EUT

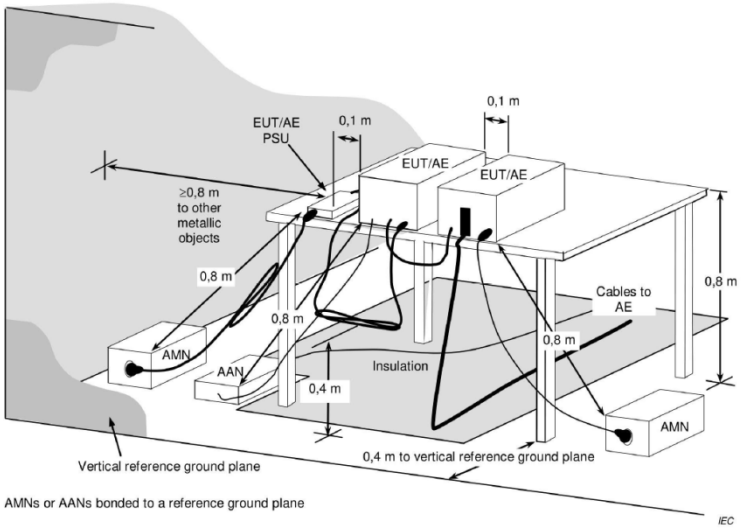
2.4 Block Diagram of Connection between EUT and AE



Note: for reference only, the actual connection setup used for testing please refer to the test photos.

2.5 Test Setup

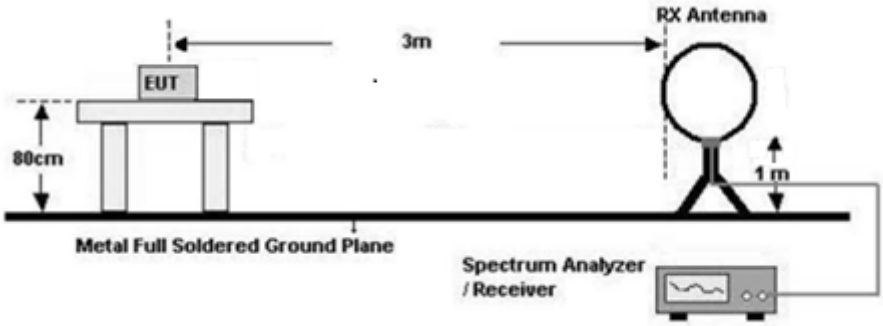
1) Conducted emission measurement:



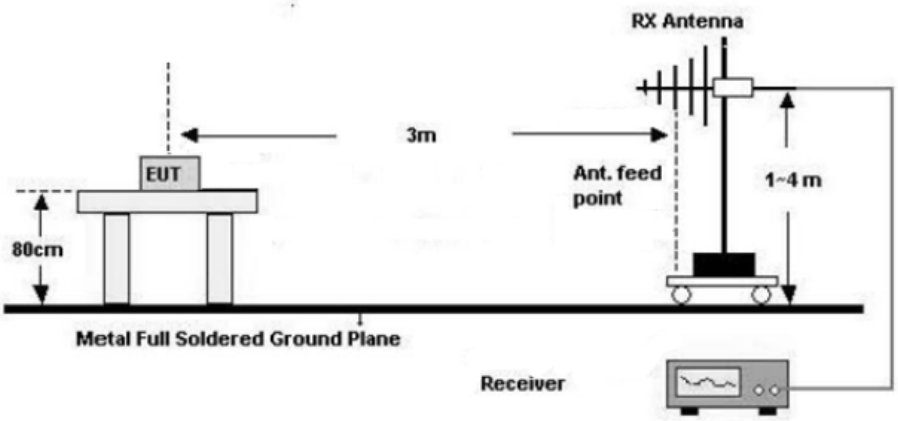
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

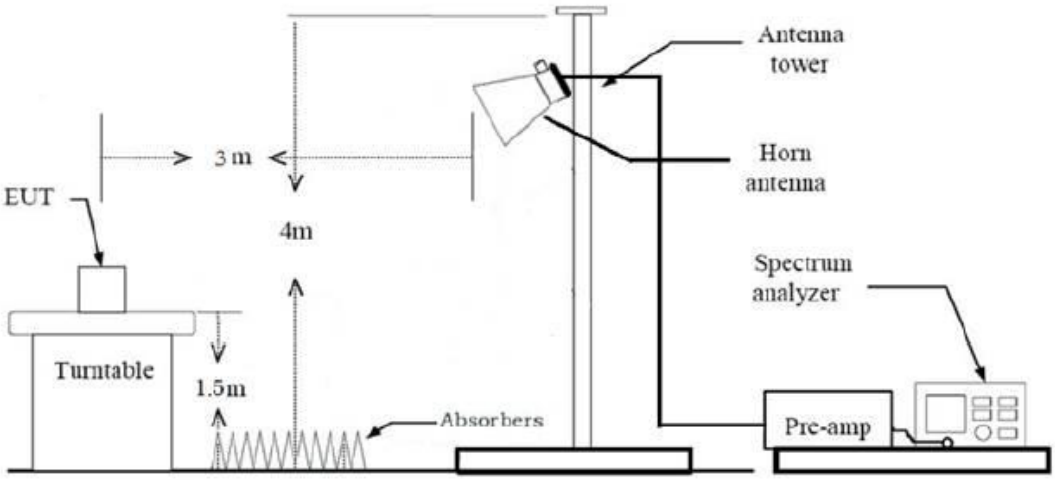
Below 30MHz (3m SAC)



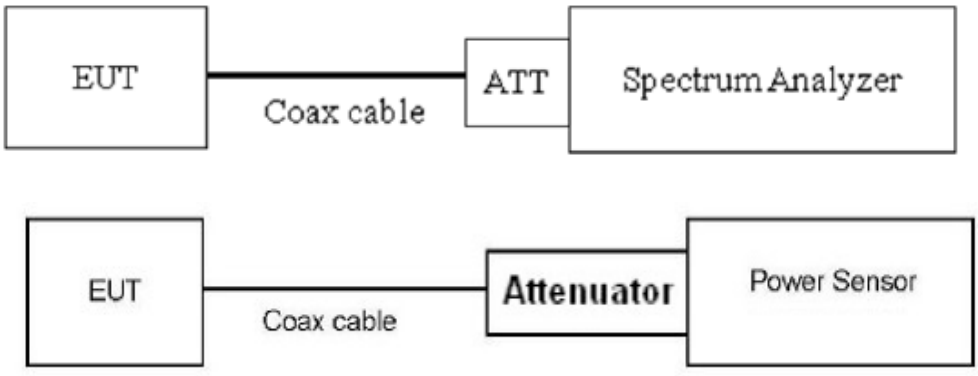
30MHz-1GHz (3m SAC)



1GHz-10GHz(3m FAC)



3) RF Conducted Test



2.6 Test Procedure

Conducted emission:

1. The E.U.T is placed on a non-conducting table 40cm from the vertical ground plane and 80cm above the horizontal ground plane (Please refer to the block diagram of the test setup and photographs).
2. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.
3. Line conducted data is recorded for both Line and Neutral

Radiated Emission Procedure:

a) For below 30MHz

1. All measurements were made at a test distance of 3 m. The measured data was extrapolated from the test distance (3m) to the specification distance (300 m from 9-490 kHz and 30 m from 490 kHz- 30 MHz) to clearly show the relative levels of fundamental and spurious emissions and demonstrate compliance with the requirement that the level of any spurious emissions be below the level of the intentionally transmitted signal. The extrapolation factor for the limits were 40*Log (test distance / specification distance).
2. Loop antenna use, investigation was done on the three antenna orientations (parallel, perpendicular, gound-parallel)
3. The RBW/VBW of receiver is set to 300Hz/1kHz for 9kHz to 150kHz range, to 10kHz/30kHz for 150kHz to 30MHz range for scan Peak emission, 200Hz/9kHz IF BW was used for final measurement in the Quasi-peak or average detection mode for frequency range 9~150kHz/150kHz~30MHz respectively.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

b) For 30MHz-1GHz:

1. The EUT was placed on the tabletop of a rotating table 0.8 m the ground at a 3 m semi anechoic chamber. The measurement distance from the EUT to the receiving antenna is 3 m.
2. EUT works in each mode of operation that needs to be tested. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of receiver is set to 100kHz/300kHz for scan Peak emission, 120kHz IF BW was used for final measurement in the Quasi-peak detection mode.
4. If the Peak emission complies with the QP limit, then perform final measurement is optional.

c) For above 1GHz:

1. The EUT was placed on the tabletop of a rotating table 1.5 m the ground at a 3 m fully anechoic room. The measurement distance from the EUT to the receiving antenna is 3 m (1-18GHz) and 1.5 m (above 18GHz).
2. EUT works in each mode of operation that needs to be tested，and having the EUT continuously working. The highest signal levels relative to the limit shall be determined by rotating the EUT from 0° to 360° and with varying the measurement antenna height between 1 m and 4 m in vertical and horizontal polarizations.
3. The RBW/VBW of spectrum analyzer is set to 1MHz/3MHz for scan Peak emission, for measured average emission, reduce the VBW to 10Hz(for duty cycle≥98%), or ≥1/T(for duty cycle<98%). T is

minimum transmission duration. (Note: a high VBW (for example 1kHz, not less than 1/T) may used to scan average emissions to avoid long sweep time.)

4. If the Peak emission complies with the Average limit, then perform average measurement is optional.
5. Open the test software to control the test antenna and test turntable. Perform the test, save the test results, and export the test data.

RF Conducted Test:

1. The antenna port of EUT was connected to the RF port of the test equipment (Power Meter or Spectrum analyzer) through Attenuator and RF cable.
2. The cable assembly insertion loss of 8.0dB (including 6dB Attenuator and 2.0dB cable) was entered as an offset in the power meter. Note: Actual cable loss was unavailable at the time of testing, therefore a loss of 2.0dB was assumed as worst case. This was later verified to be true by laboratory. (if the RF cable provided by client, the cable loss declared by client)
3. The EUT is keeping in continuous transmission mode and tested in all modulation modes.

2.7 Measurement Method

Description of Test	Measurement Method
AC Line Conducted Emissions	ANSI C63.10-2020 Section 6.2
Maximum Conducted Output Power	ANSI C63.10-2020 Section 11.9.1.3
Power Spectral Density	ANSI C63.10-2020 Section 11.10.2
6 dB Emission Bandwidth	ANSI C63.10-2020 Section 11.8.1
99% Occupied Bandwidth	ANSI C63.10-2020 Section 6.9.3
100kHz Bandwidth of Frequency Band Edge	ANSI C63.10-2020 Section 6.10
Radiated emission	ANSI C63.10-2020 Section 11.11&11.12.1
Duty Cycle	ANSI C63.10-2020 Section 11.6

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
Conducted Emission Test					
ROHDE& SCHWARZ	EMI TEST RECEIVER	ESR	101817	2024/6/4	2025/6/3
R&S	LISN	ENV216	101748	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.12	N/A	2024/6/4	2025/6/3
Farad	Test Software	EZ-EMC	Ver. EMEC-3A1	/	/
Radiated Emission Test					
R&S	EMI test receiver	ESR3	102758	2024/6/4	2025/6/3
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSV40-N	101608	2024/6/4	2025/6/3
SONOMA INSTRUMENT	Low frequency amplifier	310	186014	2024/6/4	2025/6/3
A.H. Systems	PREAMPLIFIER	PAM-0118P	531	2024/6/4	2025/6/3
BACL	Loop Antenna	1313-1A	4010611	2024/2/7	2027/2/6
SCHWARZBECK	Log - periodic wideband antenna	VULB 9163	9163-872	2023/7/7	2026/7/6
Astro Antenna Ltd	Horn antenna	AHA-118S	3015	2023/7/6	2026/7/5
Oulitong	Band Reject Filter	OBSF-902-928-40S	OE02104362	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.9	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.15	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.16	N/A	2024/6/4	2025/6/3
N/A	Coaxial Cable	NO.17	N/A	2024/6/4	2025/6/3
Audix	Test Software	E3	191218 V9	/	/
RF Conducted Test					
ROHDE& SCHWARZ	SPECTRUM ANALYZER	FSU-26	200680/026	2024/6/4	2025/6/3
ANRITSU	USB Power Sensor	MA24418A	12620	2024/6/4	2025/6/3
MEEA	6dB attenuator	603-06-1	N/A	2024/6/4	2025/6/3

Note: All equipment is calibrated with valid calibrations. Each measurement data is traceable to the national or International standards.

3 Test Results

3.1 Test Summary

FCC Rules	Description of Test	Result
§15.203	Antenna Requirement	Compliance
§15.207 (a)	AC Line Conducted Emissions	Compliance
§15.247(b)(3)	Maximum Conducted Output Power	Compliance
§15.247(e)	Power Spectral Density	Compliance
§15.247 (a)(2)	6 dB Emission Bandwidth	Compliance
-	99% Occupied Bandwidth	Report only
§15.247(d)	100kHz Bandwidth of Frequency Band Edge	Compliance
§15.205, §15.209, §15.247(d)	Radiated emission	Compliance
-	Duty Cycle	Report only

3.2 Limit

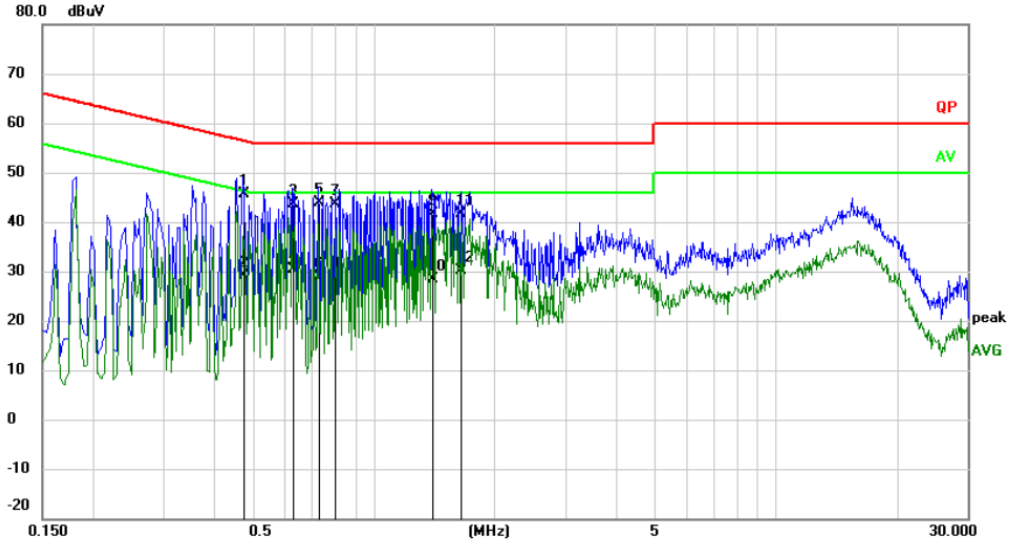
Test items	Limit
AC Line Conducted Emissions	See details §15.207 (a)
Conducted Output Power	For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt.
6dB Emission Bandwidth	The minimum 6 dB bandwidth shall be at least 500 kHz.
Power Spectral Density	For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.
Spurious Emissions, 100kHz Bandwidth of Frequency Band Edge	In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

3.3 AC Line Conducted Emissions Test Data

Test Date:	2024-12-05	Test By:	Lirou Li
Environment condition:	Temperature: 22.9°C; Relative Humidity: 64%; ATM Pressure: 100.9kPa		

Conducted Emission Measurement

File :2405Z107560E Data :#3 Date: 2024/12/5 Time: 14:59:30



Limit: QP
Mode:transmitting
Note: 802.11ah 8M Low channel

Phase: L1
Power: AC 120V/60Hz

Temperature: 22.9 ℃
Humidity: 64 %
Air Pressure: 1009 hpa

Receiver Setting: 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

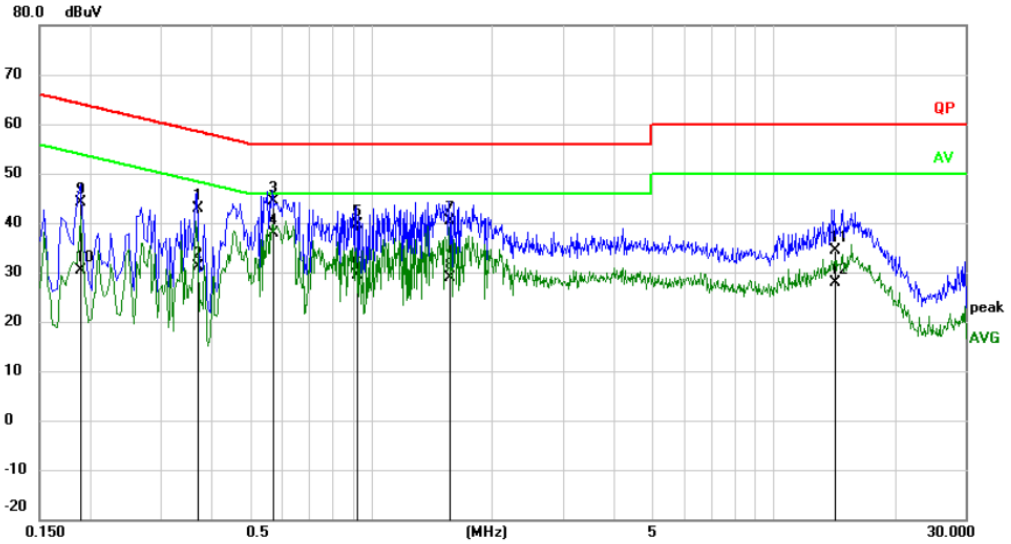
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	*	0.4740	35.08	10.50	45.58	56.44	-10.86	QP	
2		0.4740	18.51	10.50	29.01	46.44	-17.43	AVG	
3		0.6300	33.09	10.54	43.63	56.00	-12.37	QP	
4		0.6300	19.91	10.54	30.45	46.00	-15.55	AVG	
5		0.7300	33.34	10.57	43.91	56.00	-12.09	QP	
6		0.7300	18.43	10.57	29.00	46.00	-17.00	AVG	
7		0.8020	32.94	10.60	43.54	56.00	-12.46	QP	
8		0.8020	18.45	10.60	29.05	46.00	-16.95	AVG	
9		1.3980	30.89	10.71	41.60	56.00	-14.40	QP	
10		1.3980	17.73	10.71	28.44	46.00	-17.56	AVG	
11		1.6500	30.96	10.74	41.70	56.00	-14.30	QP	
12		1.6500	19.31	10.74	30.05	46.00	-15.95	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Lirou

Conducted Emission Measurement

File :2405Z107560E Data :#4 Date: 2024/12/5 Time: 15:01:15



Limit: QP
Mode:transmitting
Note: 802.11ah 8M Low channel

Phase: N
Power: AC 120V/60Hz

Temperature: 22.9 ℃
Humidity: 64 %
Air Pressure: 1009 hpa

Receiver Setting: 0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.3700	32.30	10.46	42.76	58.50	-15.74	QP	
2		0.3700	20.58	10.46	31.04	48.50	-17.46	AVG	
3		0.5700	33.92	10.49	44.41	56.00	-11.59	QP	
4	*	0.5700	27.37	10.49	37.86	46.00	-8.14	AVG	
5		0.9220	29.18	10.53	39.71	56.00	-16.29	QP	
6		0.9220	18.74	10.53	29.27	46.00	-16.73	AVG	
7		1.5660	29.69	10.64	40.33	56.00	-15.67	QP	
8		1.5660	18.35	10.64	28.99	46.00	-17.01	AVG	
9		0.1900	33.89	10.29	44.18	64.04	-19.86	QP	
10		0.1900	20.21	10.29	30.50	54.04	-23.54	AVG	
11		14.1820	24.07	10.39	34.46	60.00	-25.54	QP	
12		14.1820	17.50	10.39	27.89	50.00	-22.11	AVG	

*:Maximum data x:Over limit !:over margin

Engineer Signature: Lirou

Remark:

Measurement (dBuV)= Reading Level (dBuV) + Correct Factor(dB)

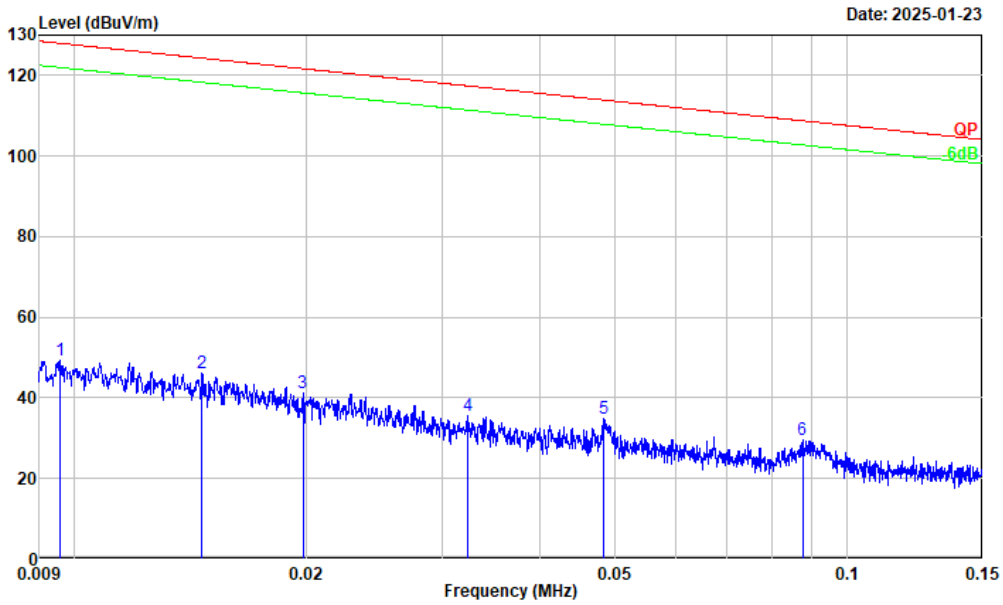
Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over Limit = Measurement – Limit

3.4 Radiated emission Test Data

9 kHz-30MHz:

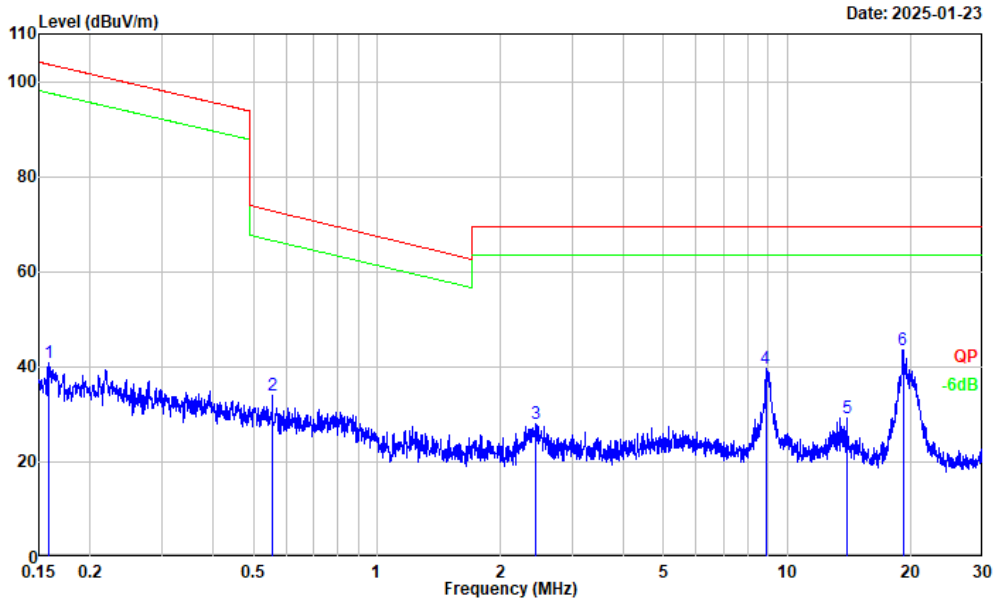
Test Date:	2025-01-23	Test By:	Bard Huang
Environment condition:	Temperature: 23.1°C; Relative Humidity:51%; ATM Pressure: 101.0kPa		



Project No. : 2405Z107560E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.1℃/51%R.H./101.0kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : 8M 908

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	0.010	11.73	37.56	49.29	127.98	-78.69	Peak
2	0.015	11.93	34.27	46.20	124.29	-78.09	Peak
3	0.020	10.15	31.02	41.17	121.69	-80.52	Peak
4	0.032	11.38	24.05	35.43	117.42	-81.99	Peak
5	0.049	14.21	20.72	34.93	113.89	-78.96	Peak
6	0.088	13.91	15.77	29.68	108.75	-79.07	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VWB: 200Hz/1kHz, DET: PK



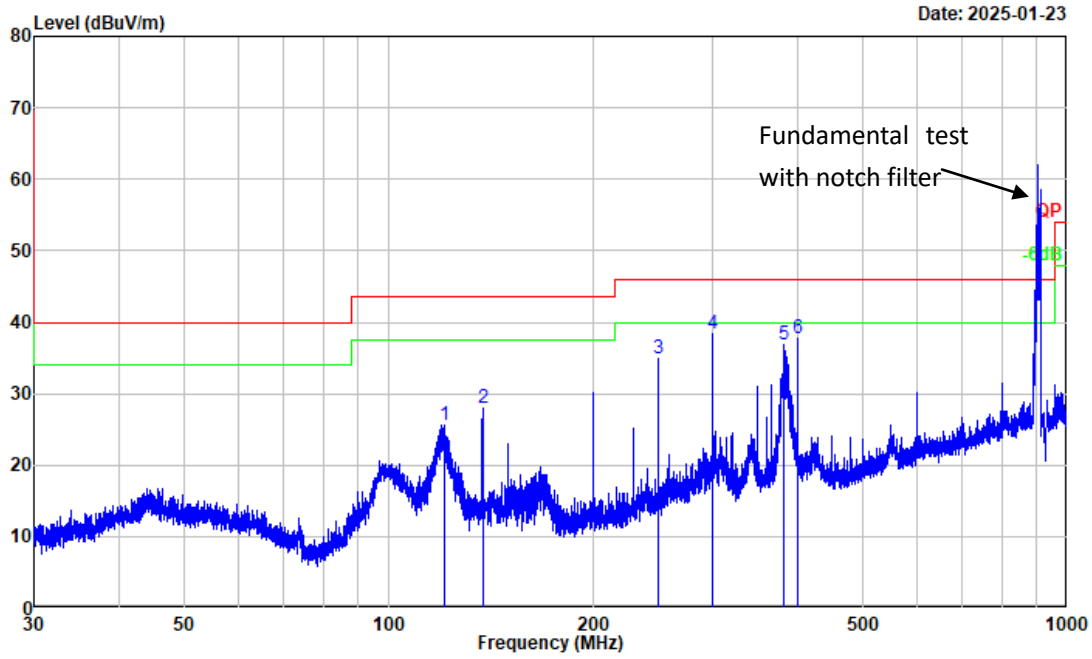
Project No. : 2405Z107560E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.1℃/51%R.H./101.0kPa
Tested by : Bard Huang
Polarization : PARALLEL
Remark : 8M 908

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.158	27.36	13.43	40.79	103.61	-62.82	Peak
2	0.555	28.75	5.09	33.84	72.69	-38.85	Peak
3	2.446	30.77	-2.75	28.02	69.54	-41.52	Peak
4	8.866	43.19	-3.66	39.53	69.54	-30.01	Peak
5	13.960	32.69	-3.53	29.16	69.54	-40.38	Peak
6	19.153	46.51	-3.09	43.42	69.54	-26.12	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: RBW/VWB: 9kHz/30kHz, DET: PK

30MHz-1GHz:

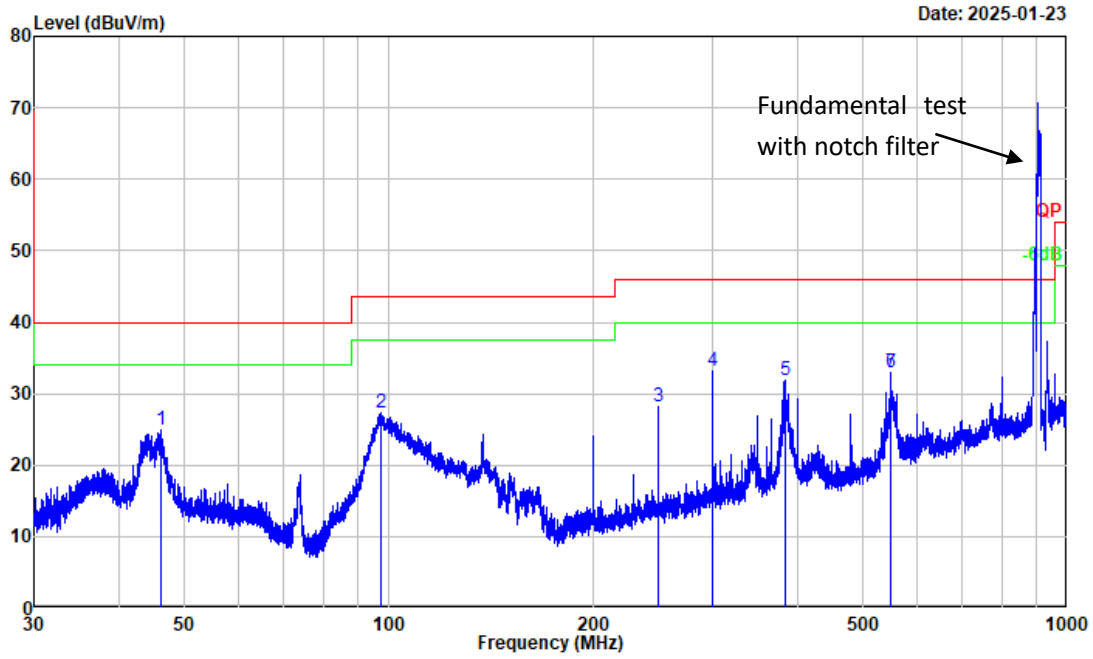
Test Date:	2025-01-23	Test By:	Bard Huang
Environment condition:	Temperature: 23.1°C; Relative Humidity:51%; ATM Pressure: 101.0kPa		



Project No. : 2405Z107560E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.1℃/51%R.H./101.0kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 8M 908MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	121.070	41.52	-15.95	25.57	43.50	-17.93	Peak
2	137.481	45.37	-17.46	27.91	43.50	-15.59	Peak
3	249.972	47.32	-12.37	34.95	46.00	-11.05	Peak
4	299.973	49.57	-11.28	38.29	46.00	-7.71	Peak
5	382.923	45.92	-9.10	36.82	46.00	-9.18	Peak
6	399.906	46.17	-8.51	37.66	46.00	-8.34	Peak

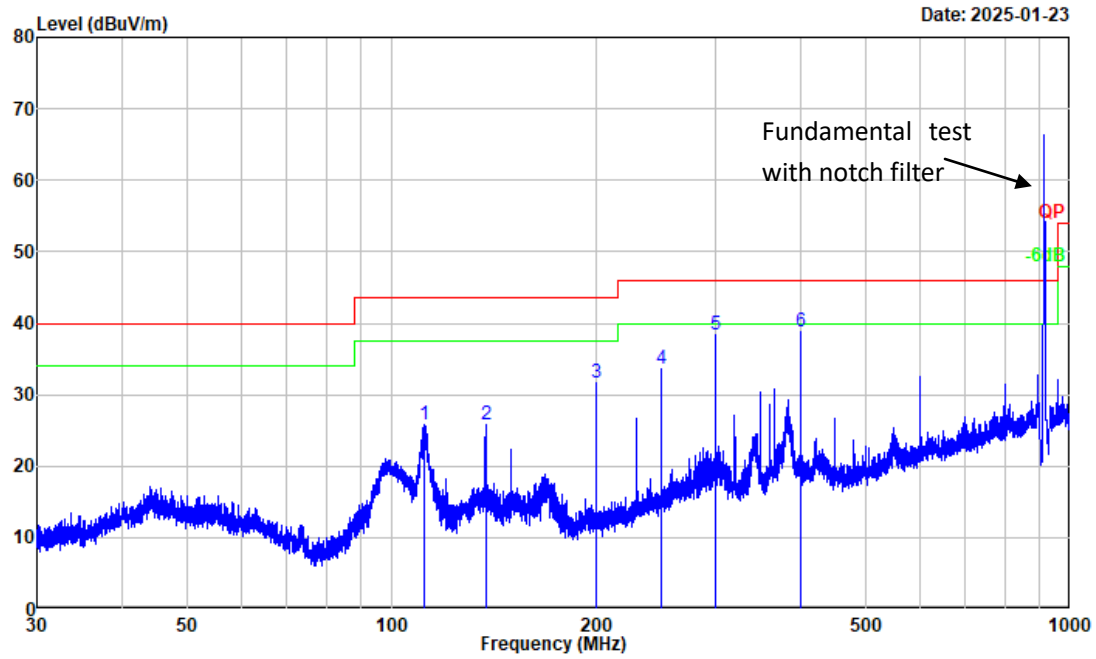
Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VWB: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP



Project No. : 2405Z107560E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.1℃/51%R.H./101.0kPa
Tested by : Luke Li
Polarization : vertical
Remark : 8M 908MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	46.219	37.06	-12.09	24.97	40.00	-15.03	Peak
2	97.200	41.68	-14.43	27.25	43.50	-16.25	Peak
3	249.972	40.62	-12.37	28.25	46.00	-17.75	Peak
4	299.973	44.39	-11.28	33.11	46.00	-12.89	Peak
5	384.774	40.92	-9.05	31.87	46.00	-14.13	Peak
6	550.224	39.39	-6.40	32.99	46.00	-13.01	Peak
7	550.224	39.39	-6.40	32.99	46.00	-13.01	Peak

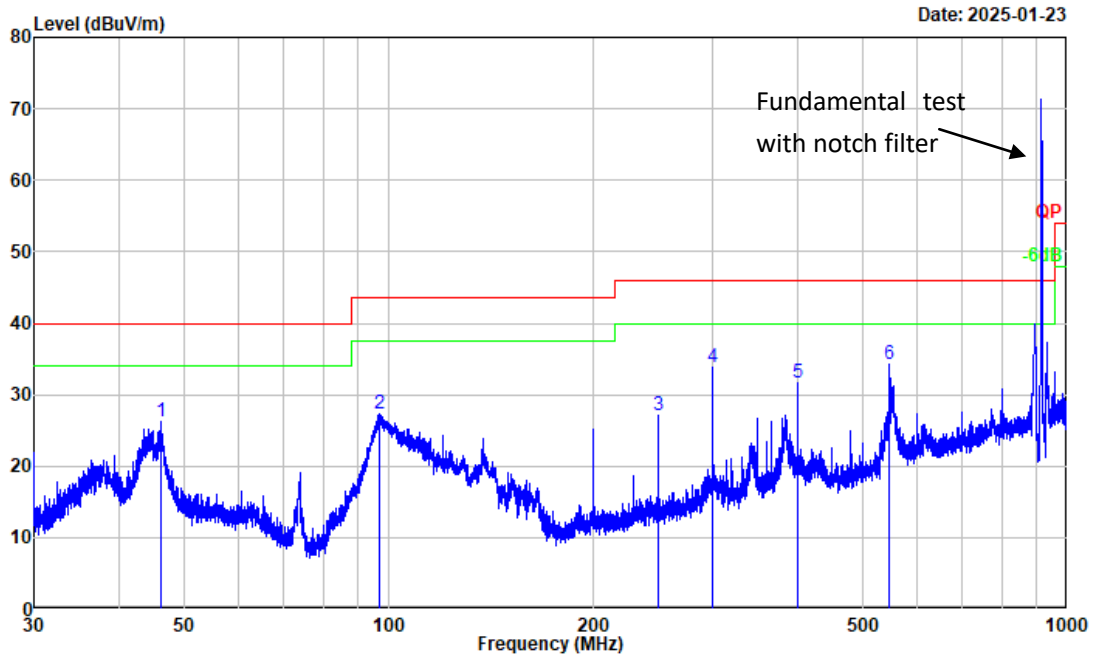
Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VWB: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP



Project No. : 2405Z107560E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.1℃/51%R.H./101.0kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 8M 916MHz

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	111.836	40.17	-14.36	25.81	43.50	-17.69	Peak
2	137.481	43.33	-17.46	25.87	43.50	-17.63	Peak
3	199.986	45.41	-13.72	31.69	43.50	-11.81	Peak
4	249.972	45.91	-12.37	33.54	46.00	-12.46	Peak
5	299.973	49.76	-11.28	38.48	46.00	-7.52	Peak
6	400.081	47.32	-8.51	38.81	46.00	-7.19	Peak

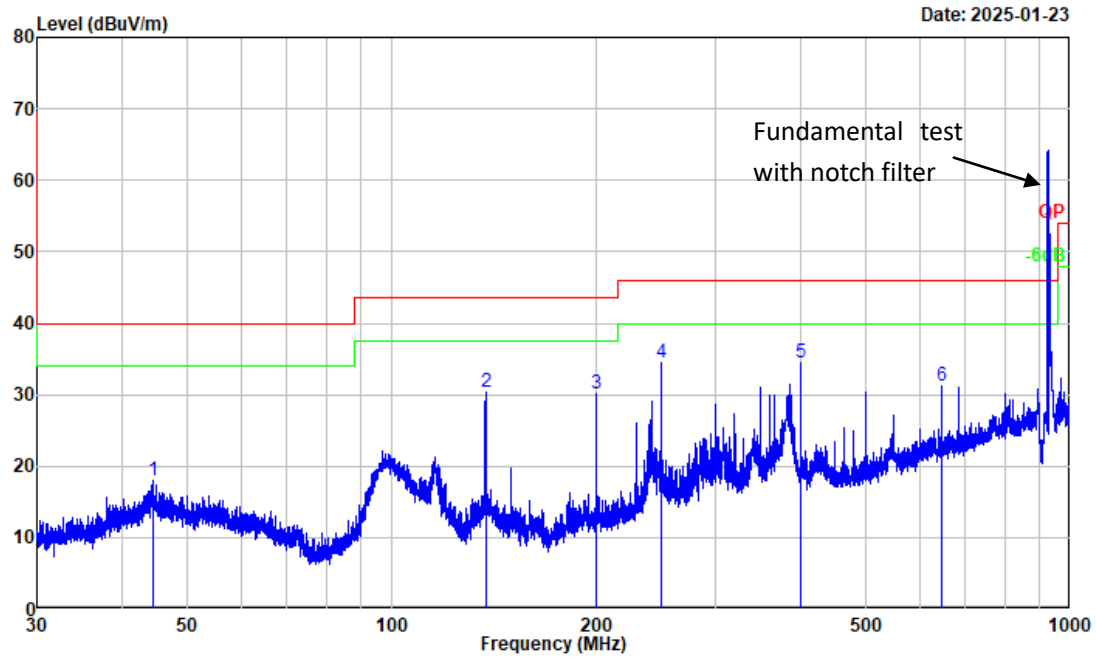
Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VWB: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP



Project No. : 2405Z107560E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.1℃/51%R.H./101.0kPa
Tested by : Luke Li
Polarization : vertical
Remark : 8M 916MHz

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	46.097	38.23	-12.09	26.14	40.00	-13.86	Peak
2	97.072	41.70	-14.44	27.26	43.50	-16.24	Peak
3	249.972	39.54	-12.37	27.17	46.00	-18.83	Peak
4	299.973	45.20	-11.28	33.92	46.00	-12.08	Peak
5	400.081	40.13	-8.51	31.62	46.00	-14.38	Peak
6	545.183	40.71	-6.50	34.21	46.00	-11.79	Peak

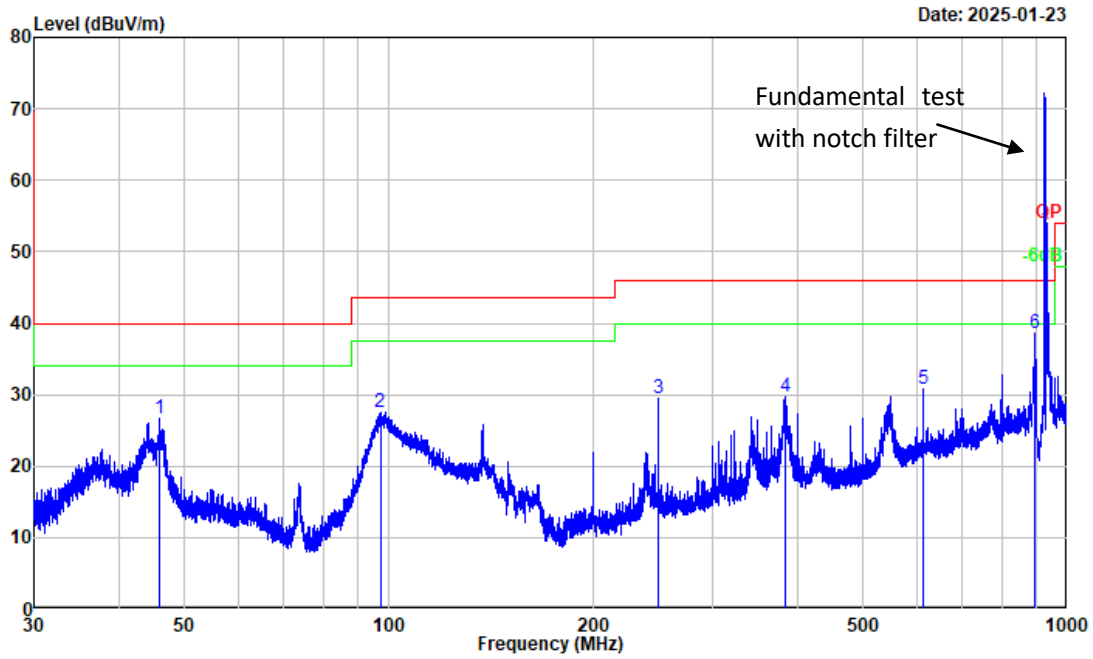
Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VWB: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP



Project No. : 2405Z107560E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.1℃/51%R.H./101.0kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 8M 924MHz

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	44.431	30.05	-12.16	17.89	40.00	-22.11	Peak
2	137.481	47.77	-17.46	30.31	43.50	-13.19	Peak
3	199.986	43.76	-13.72	30.04	43.50	-13.46	Peak
4	249.972	46.74	-12.37	34.37	46.00	-11.63	Peak
5	400.081	42.93	-8.51	34.42	46.00	-11.58	Peak
6	646.535	35.61	-4.35	31.26	46.00	-14.74	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VWB: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP



Project No. : 2405Z107560E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.1℃/51%R.H./101.0kPa
Tested by : Luke Li
Polarization : vertical
Remark : 8M 924MHz

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	45.875	38.68	-12.09	26.59	40.00	-13.41	Peak
2	97.157	41.93	-14.43	27.50	43.50	-16.00	Peak
3	249.972	41.79	-12.37	29.42	46.00	-16.58	Peak
4	384.437	38.79	-9.06	29.73	46.00	-16.27	Peak
5	613.138	35.54	-4.81	30.73	46.00	-15.27	Peak
6	894.641	39.97	-1.46	38.51	46.00	-7.49	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Pre-scan: RBW/VWB: 100kHz/300kHz, DET: PK
Final measure: RBW: 120kHz, DET: QP

Above 1GHz:

Test Date:	2025-01-17	**Test By:**	Luke Li
Environment condition:	Temperature: 22.5°C; Relative Humidity:32%; ATM Pressure:101.3kPa		

Frequency (MHz)	**Reading level (dBμV)**	**Polar**	**Corrected Factor (dB/m)**	**Corrected Amplitude (dBμV/m)**	**Limit (dBμV/m)**	**Margin (dB)**	**Remark**
1M Lowest channel							
1807.000	57.09	horizontal	-3.76	53.33	74.00	-20.67	Peak
2710.500	49.83	horizontal	-2.36	47.47	74.00	-26.53	Peak
3614.000	40.09	horizontal	-2.59	37.50	54.00	-16.50	Average
3614.000	60.36	horizontal	-2.59	57.77	74.00	-16.23	Peak
1807.000	54.74	vertical	-3.76	50.98	54.00	-3.02	Average
1807.000	70.07	vertical	-3.76	66.31	74.00	-7.69	Peak
2710.500	36.70	vertical	-2.36	34.34	54.00	-19.66	Average
2710.500	61.01	vertical	-2.36	58.65	74.00	-15.35	Peak
3614.000	39.17	vertical	-2.59	36.58	54.00	-17.42	Average
3614.000	57.88	vertical	-2.59	55.29	74.00	-18.71	Peak
4517.500	52.30	vertical	-3.99	48.31	74.00	-25.69	Peak
1M Middle Channel							
1829.000	54.50	horizontal	-3.83	50.67	74.00	-23.33	Peak
2743.500	48.20	horizontal	-2.35	45.85	74.00	-28.15	Peak
3658.000	45.12	horizontal	-2.61	42.51	54.00	-11.49	Average
3658.000	64.39	horizontal	-2.61	61.78	74.00	-12.22	Peak
1829.000	51.65	vertical	-3.83	47.82	54.00	-6.18	Average
1829.000	65.77	vertical	-3.83	61.94	74.00	-12.06	Peak
2743.500	36.39	vertical	-2.35	34.04	54.00	-19.96	Average
2743.500	60.72	vertical	-2.35	58.37	74.00	-15.63	Peak
3658.000	40.07	vertical	-2.61	37.46	54.00	-16.54	Average
3658.000	57.57	vertical	-2.61	54.96	74.00	-19.04	Peak
4572.500	51.49	vertical	-3.20	48.29	74.00	-25.71	Peak
1M Highest Channel							
1853.000	52.01	horizontal	-3.91	48.10	74.00	-25.90	Peak
3706.000	44.40	horizontal	-2.56	41.84	54.00	-12.16	Average
3706.000	67.78	horizontal	-2.56	65.22	74.00	-8.78	Peak
1853.000	47.17	vertical	-3.91	43.26	54.00	-10.74	Average
1853.000	61.89	vertical	-3.91	57.98	74.00	-16.02	Peak
2779.500	36.29	vertical	-2.34	33.95	54.00	-20.05	Average

2779.500	59.91	vertical	-2.34	57.57	74.00	-16.43	Peak
3706.000	40.58	vertical	-2.56	38.02	54.00	-15.98	Average
3706.000	59.08	vertical	-2.56	56.52	74.00	-17.48	Peak
2M Lowest channel							
1810.000	56.25	horizontal	-3.77	52.48	74.00	-21.52	Peak
2715.000	50.25	horizontal	-2.36	47.89	74.00	-26.11	Peak
3620.000	41.84	horizontal	-2.59	39.25	54.00	-14.75	Average
3620.000	57.13	horizontal	-2.59	54.54	74.00	-19.46	Peak
1810.000	53.30	vertical	-3.77	49.53	54.00	-4.47	Average
1810.000	66.76	vertical	-3.77	62.99	74.00	-11.01	Peak
2715.000	56.09	vertical	-2.36	53.73	74.00	-20.27	Peak
3620.000	38.61	vertical	-2.59	36.02	54.00	-17.98	Average
3620.000	57.88	vertical	-2.59	55.29	74.00	-18.71	Peak
2M Middle Channel							
1830.000	53.75	horizontal	-3.83	49.92	74.00	-24.08	Peak
2745.000	49.30	horizontal	-2.35	46.95	74.00	-27.05	Peak
3660.000	45.67	horizontal	-2.60	43.07	54.00	-10.93	Average
3660.000	63.53	horizontal	-2.60	60.93	74.00	-13.07	Peak
1830.000	49.94	vertical	-3.83	46.11	54.00	-7.89	Average
1830.000	64.56	vertical	-3.83	60.73	74.00	-13.27	Peak
2745.000	37.10	vertical	-2.35	34.75	54.00	-19.25	Average
2745.000	58.90	vertical	-2.35	56.55	74.00	-17.45	Peak
3660.000	56.37	vertical	-2.60	53.77	74.00	-20.23	Peak
2M Highest Channel							
1850.000	50.91	horizontal	-3.89	47.02	74.00	-26.98	Peak
2775.000	49.07	horizontal	-2.35	46.72	74.00	-27.28	Peak
3700.000	44.94	horizontal	-2.55	42.39	54.00	-11.61	Average
3700.000	63.34	horizontal	-2.55	60.78	74.00	-13.21	Peak
1850.000	47.61	vertical	-3.89	43.72	54.00	-10.28	Average
1850.000	62.44	vertical	-3.89	58.55	74.00	-15.45	Peak
2775.000	36.56	vertical	-2.35	34.51	54.00	-19.49	Average
2775.000	65.06	vertical	-2.35	62.71	74.00	-11.29	Peak
3700.000	41.00	vertical	-2.55	38.45	54.00	-15.55	Average
3700.000	57.86	vertical	-2.55	55.31	74.00	-18.69	Peak
4M Lowest channel							
1812.000	54.02	horizontal	-3.77	50.25	74.00	-23.75	Peak
2718.000	47.42	horizontal	-2.36	45.06	74.00	-28.94	Peak
3624.000	44.35	horizontal	-2.60	41.75	54.00	-12.25	Average

3624.000	59.36	horizontal	-2.60	56.76	74.00	-17.24	Peak
1812.000	54.30	vertical	-3.77	50.53	54.00	-3.47	Average
1812.000	67.10	vertical	-3.77	63.33	74.00	-10.67	Peak
2718.000	36.61	vertical	-2.36	34.25	54.00	-19.75	Average
2718.000	60.27	vertical	-2.36	57.91	74.00	-16.09	Peak
3624.000	55.35	vertical	-2.60	52.75	74.00	-21.25	Peak
4M Middle Channel							
1828.000	52.58	horizontal	-3.83	48.75	74.00	-25.25	Peak
2742.000	48.44	horizontal	-2.35	46.09	74.00	-27.91	Peak
3656.000	46.92	horizontal	-2.61	44.31	54.00	-9.69	Average
3656.000	62.88	horizontal	-2.61	60.27	74.00	-13.73	Peak
1828.000	51.61	vertical	-3.83	47.78	54.00	-6.22	Average
1828.000	65.32	vertical	-3.83	61.49	74.00	-12.51	Peak
2742.000	38.58	vertical	-2.35	36.23	54.00	-17.77	Average
2742.000	61.42	vertical	-2.35	59.07	74.00	-14.93	Peak
3646.000	56.60	vertical	-2.61	53.99	74.00	-20.01	Peak
4M Highest Channel							
1852.000	52.09	horizontal	-3.91	48.18	74.00	-25.82	Peak
2778.000	48.15	horizontal	-2.35	45.80	54.00	-28.20	Peak
3704.000	45.34	horizontal	-2.56	42.78	74.00	-11.22	Average
3704.000	61.64	horizontal	-2.56	59.08	74.00	-14.92	Peak
1852.000	47.31	vertical	-3.91	43.40	54.00	-10.60	Average
1852.000	60.00	vertical	-3.91	56.09	74.00	-17.91	Peak
2778.000	38.03	vertical	-2.35	35.68	54.00	-18.32	Average
2778.000	61.14	vertical	-2.35	58.79	74.00	-15.21	Peak
3704.000	56.27	vertical	-2.56	53.71	74.00	-20.29	Peak
8M Lowest channel							
1816.000	53.63	horizontal	-3.78	49.85	74.00	-24.15	Peak
2724.000	49.78	horizontal	-2.35	47.43	74.00	-26.57	Peak
3632.000	45.91	horizontal	-2.60	43.31	54.00	-10.69	Average
3632.000	59.22	horizontal	-2.60	56.62	74.00	-17.38	Peak
1816.000	53.70	vertical	-3.78	49.92	54.00	-4.08	Average
1816.000	65.68	vertical	-3.78	61.90	74.00	-12.10	Peak
2724.000	41.96	vertical	-2.35	39.61	54.00	-14.39	Average
2724.000	60.20	vertical	-2.35	57.85	74.00	-16.15	Peak
3632.000	55.63	vertical	-2.60	53.03	74.00	-20.97	Peak
8M Middle Channel							
1832.000	51.46	horizontal	-3.83	47.63	74.00	-26.37	Peak

2748.000	47.32	horizontal	-2.35	44.97	74.00	-29.03	Peak
3664.000	46.59	horizontal	-2.59	44.00	54.00	-10.00	Average
3664.000	59.94	horizontal	-2.59	57.35	74.00	-16.65	Peak
1832.000	50.65	vertical	-3.83	46.82	54.00	-7.18	Average
1832.000	62.17	vertical	-3.83	58.34	74.00	-15.66	Peak
2748.000	43.03	vertical	-2.35	40.68	54.00	-13.32	Average
2748.000	60.10	vertical	-2.35	57.75	74.00	-16.25	Peak
3664.000	55.24	vertical	-2.59	52.65	74.00	-21.35	Peak
8M Highest Channel							
1848.000	51.10	horizontal	-3.88	47.22	74.00	-26.78	Peak
2772.000	48.43	horizontal	-2.35	46.08	74.00	-27.92	Peak
3696.000	47.25	horizontal	-2.56	44.69	54.00	-9.31	Average
3696.000	61.64	horizontal	-2.56	59.08	74.00	-14.92	Peak
1848.000	48.45	vertical	-3.88	44.57	54.00	-9.43	Average
1848.000	60.28	vertical	-3.88	56.40	74.00	-17.60	Peak
2772.000	45.39	vertical	-2.35	43.04	54.00	-10.96	Average
2772.000	64.10	vertical	-2.35	61.75	74.00	-12.25	Peak
3696.000	43.98	vertical	-2.56	41.42	54.00	-12.58	Average
3696.000	59.16	vertical	-2.56	56.60	74.00	-17.40	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

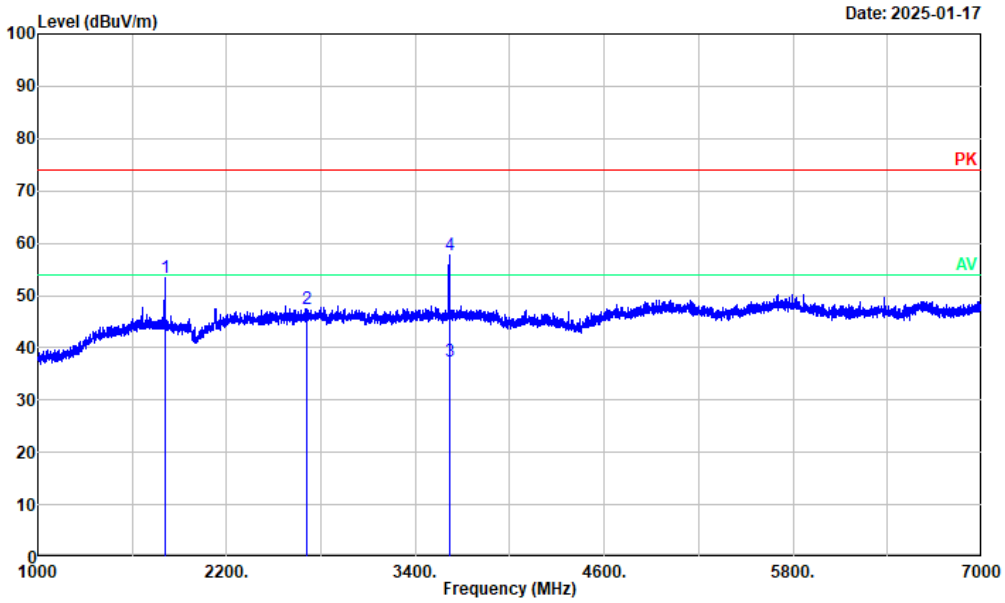
Margin = Corrected Amplitude – Limit

For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

The emission levels of other frequencies that were lower than the limit 20dB not show in test report.

Test plot for example as below:

Mode:	1M	Channel:	903.5MHz

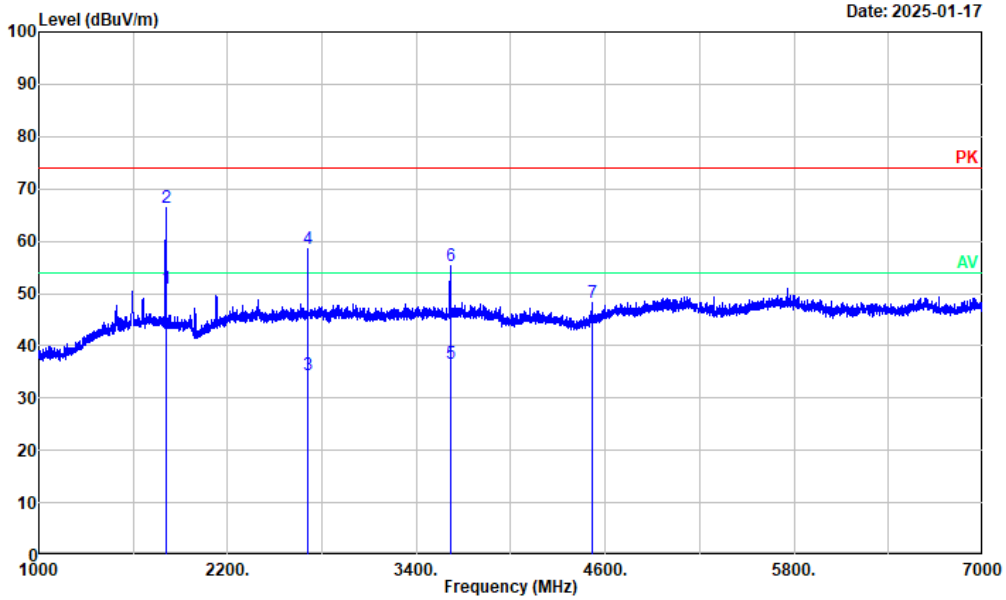


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 1M 903.5M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1807.000	57.09	-3.76	53.33	74.00	-20.67	Peak
2	2710.500	49.83	-2.36	47.47	74.00	-26.53	Peak
3	3614.000	40.09	-2.59	37.50	54.00	-16.50	Average
4	3614.000	60.36	-2.59	57.77	74.00	-16.23	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	1M	Channel:	903.5MHz

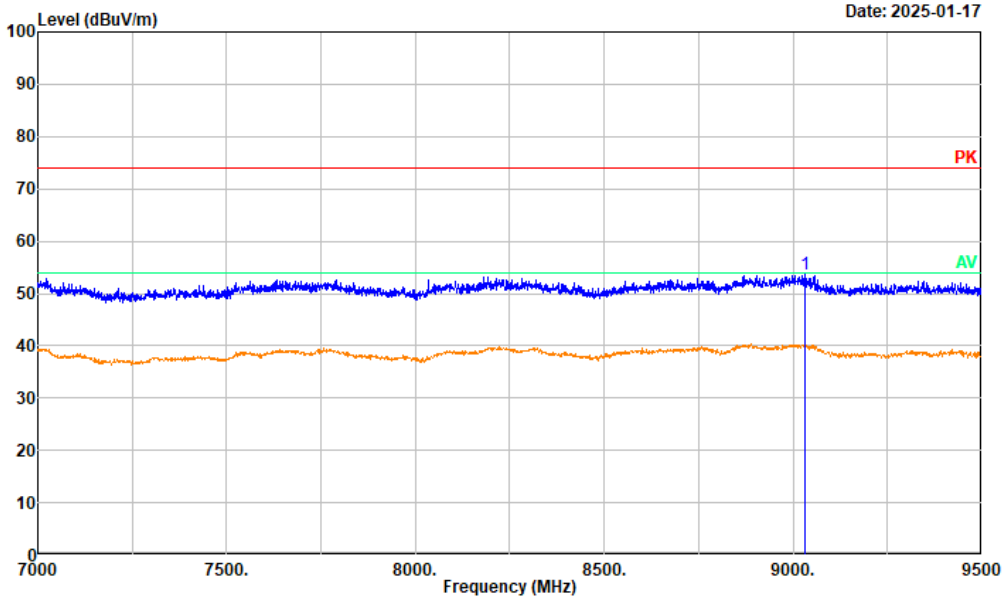


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 1M 903.5M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1807.000	54.74	-3.76	50.98	54.00	-3.02	Average
2	1807.000	70.07	-3.76	66.31	74.00	-7.69	Peak
3	2710.500	36.70	-2.36	34.34	54.00	-19.66	Average
4	2710.500	61.01	-2.36	58.65	74.00	-15.35	Peak
5	3614.000	39.17	-2.59	36.58	54.00	-17.42	Average
6	3614.000	57.88	-2.59	55.29	74.00	-18.71	Peak
7	4517.500	52.30	-3.99	48.31	74.00	-25.69	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	1M	Channel:	903.5MHz

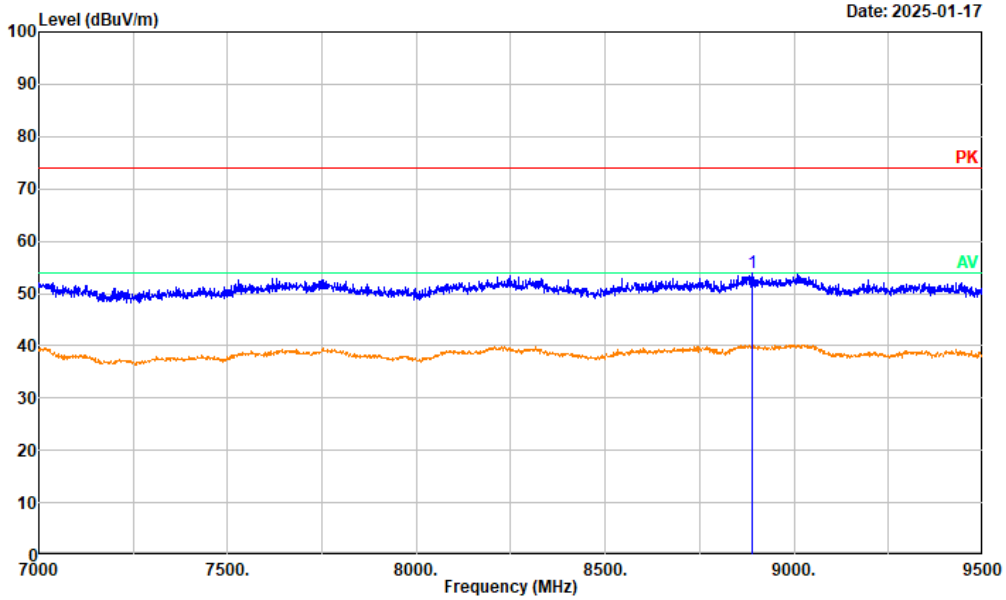


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 1M 903.5M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	9033.000	52.30	1.38	53.68	74.00	-20.32	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	1M	Channel:	903.5MHz

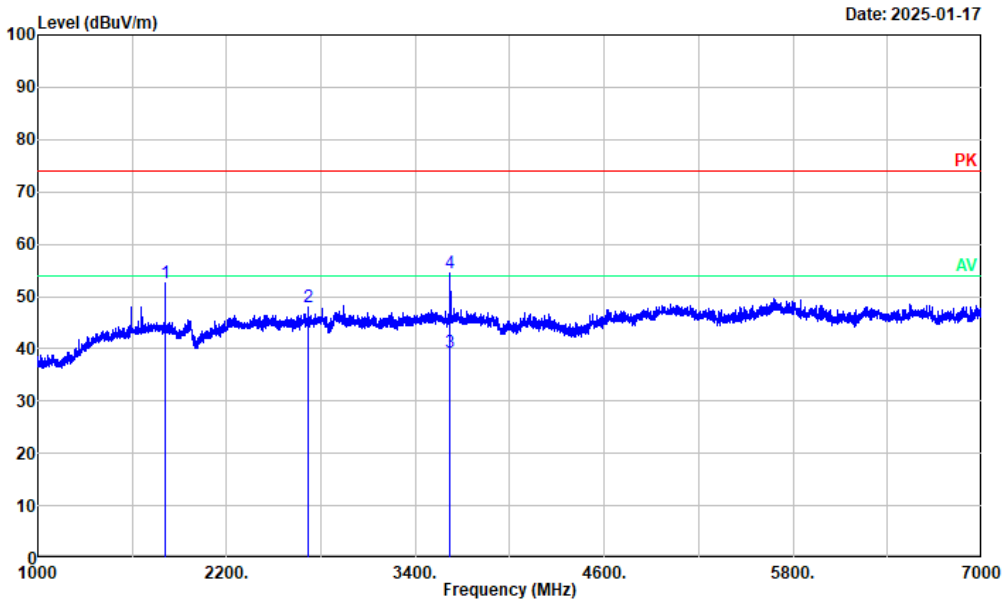


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 1M 903.5M

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	8888.000	52.15	1.68	53.83	74.00	-20.17	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	2M	Channel:	905MHz

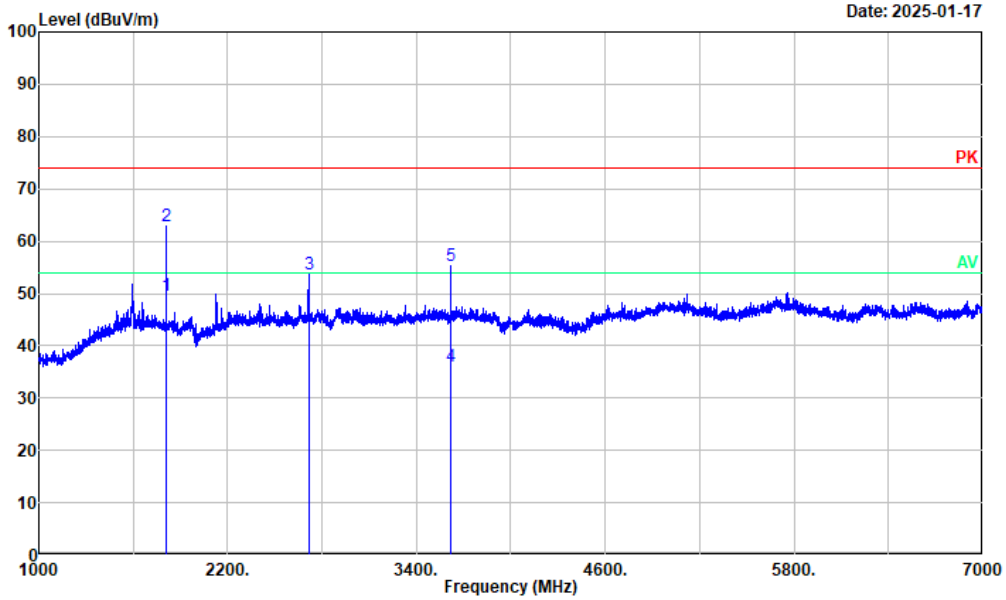


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 2M 905M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1810.000	56.25	-3.77	52.48	74.00	-21.52	Peak
2	2715.000	50.25	-2.36	47.89	74.00	-26.11	Peak
3	3620.000	41.84	-2.59	39.25	54.00	-14.75	Average
4	3620.000	57.13	-2.59	54.54	74.00	-19.46	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	2M	Channel:	905MHz

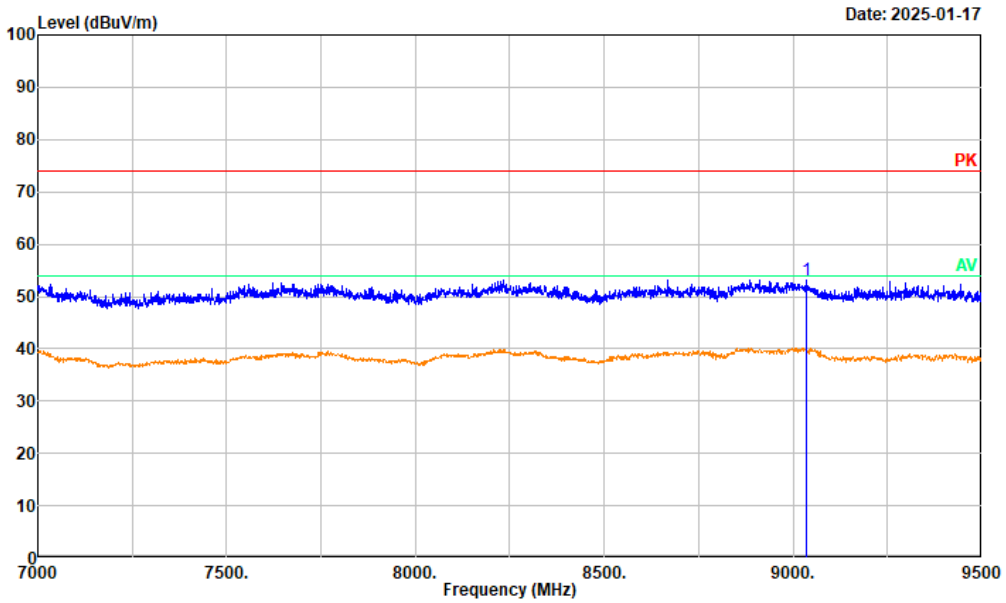


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 2M 905M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1810.000	53.30	-3.77	49.53	54.00	-4.47	Average
2	1810.000	66.76	-3.77	62.99	74.00	-11.01	Peak
3	2715.000	56.09	-2.36	53.73	74.00	-20.27	Peak
4	3620.000	38.61	-2.59	36.02	54.00	-17.98	Average
5	3620.000	57.88	-2.59	55.29	74.00	-18.71	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	2M	Channel:	905MHz

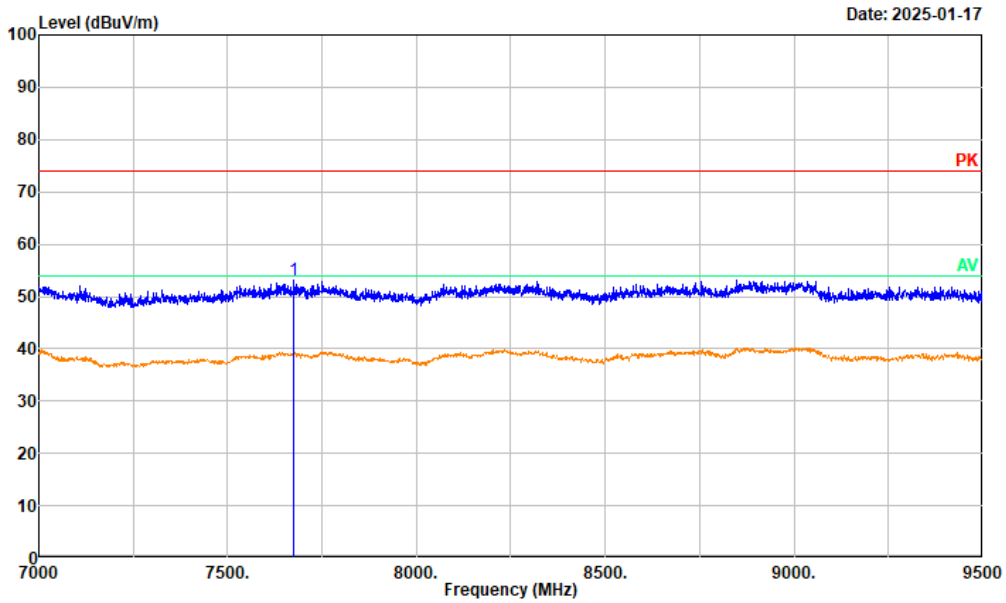


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 2M 905M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	9036.000	51.85	1.36	53.21	74.00	-20.79	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	2M	Channel:	905MHz

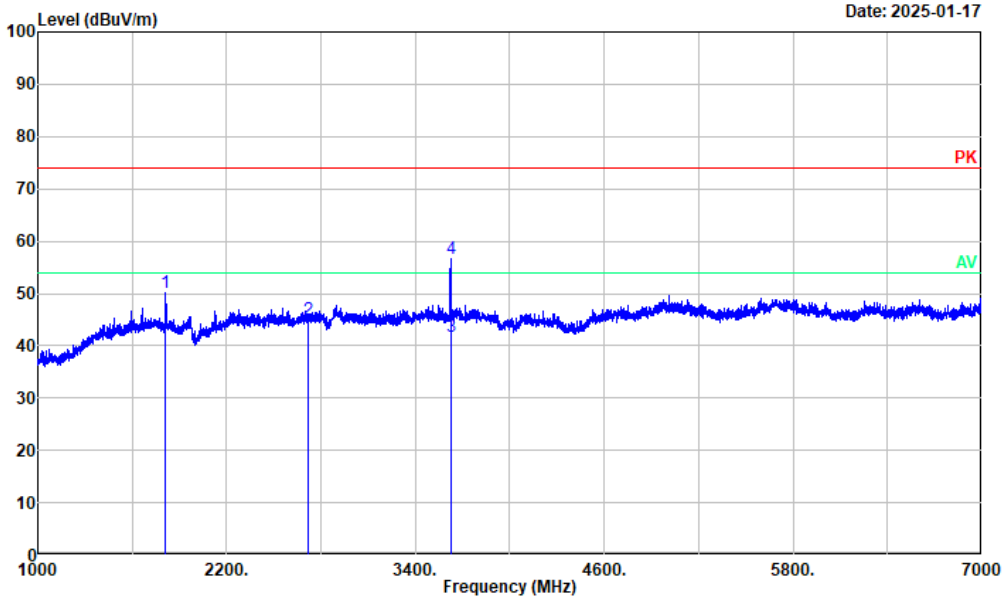


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 2M 905M

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	7674.000	53.24	-0.11	53.13	74.00	-20.87	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	4M	Channel:	906MHz

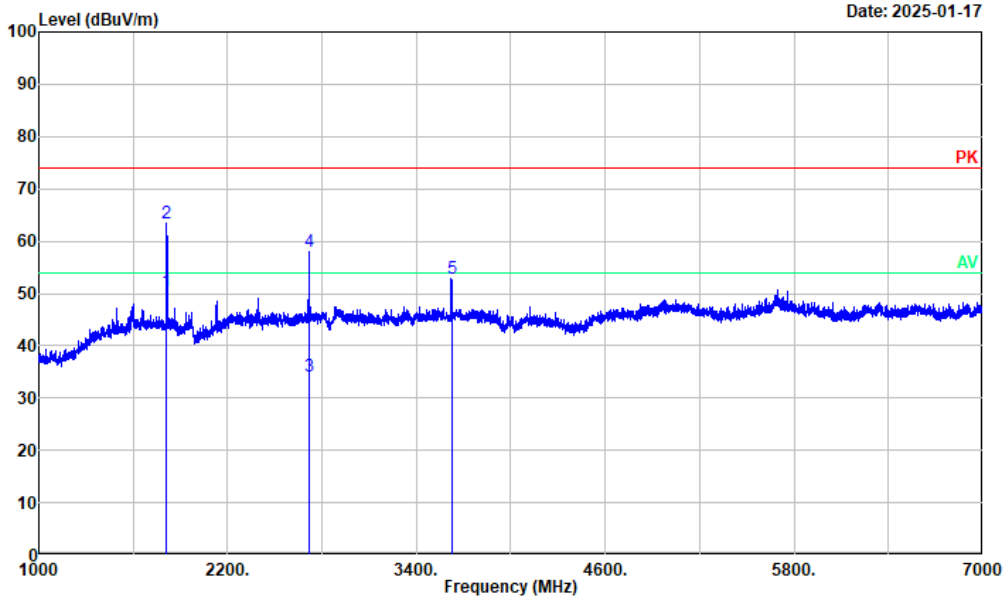


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 4M 906M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1812.000	54.02	-3.77	50.25	74.00	-23.75	Peak
2	2718.000	47.42	-2.36	45.06	74.00	-28.94	Peak
3	3624.000	44.35	-2.60	41.75	54.00	-12.25	Average
4	3624.000	59.36	-2.60	56.76	74.00	-17.24	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	4M	Channel:	906MHz

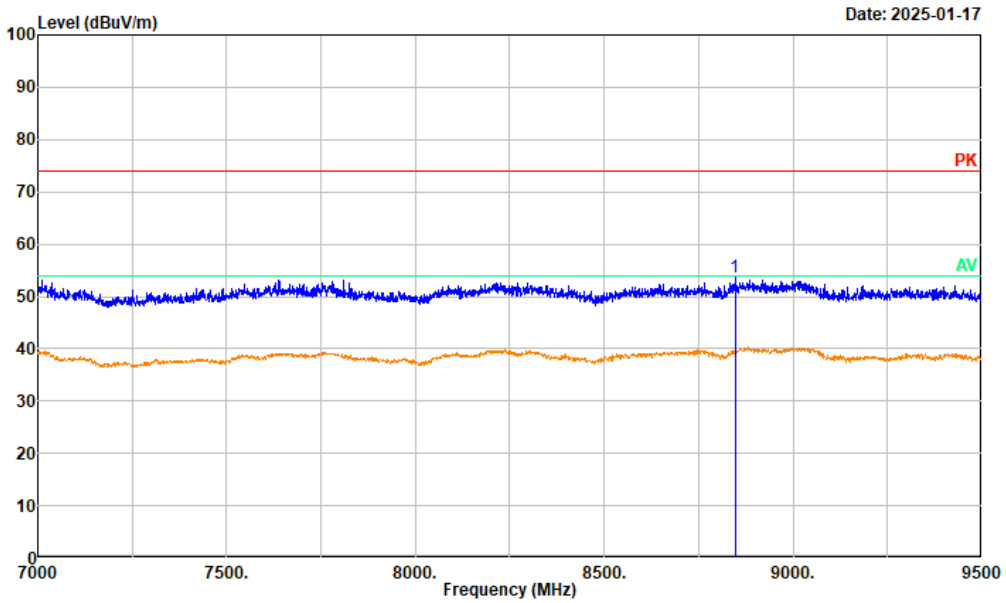


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 4M 906M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1812.000	54.30	-3.77	50.53	54.00	-3.47	Average
2	1812.000	67.10	-3.77	63.33	74.00	-10.67	Peak
3	2718.000	36.61	-2.36	34.25	54.00	-19.75	Average
4	2718.000	60.27	-2.36	57.91	74.00	-16.09	Peak
5	3624.000	55.35	-2.60	52.75	74.00	-21.25	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	4M	Channel:	906MHz

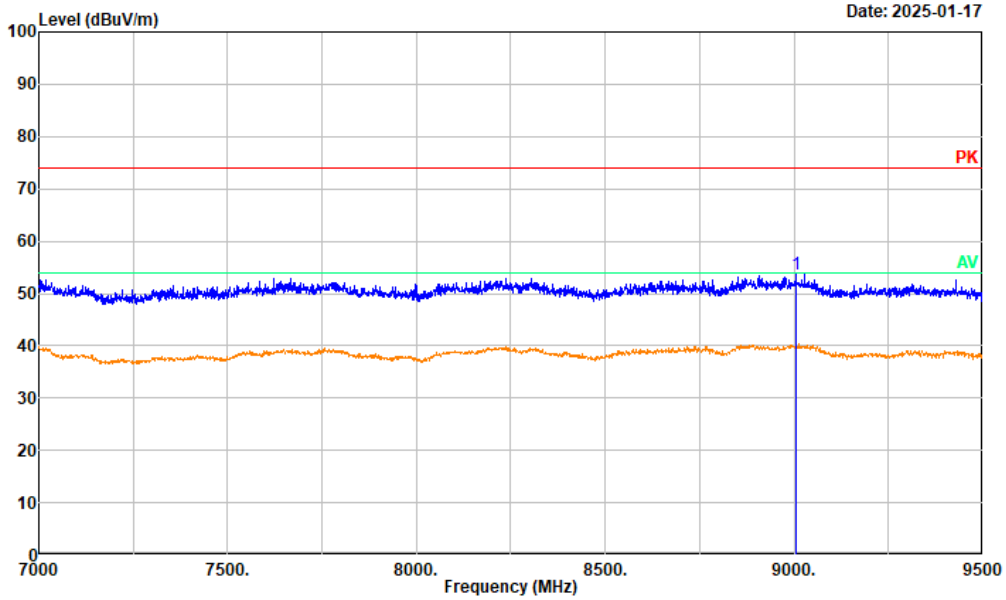


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 4M 906M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	8846.000	51.91	1.63	53.54	74.00	-20.46	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	4M	Channel:	906MHz

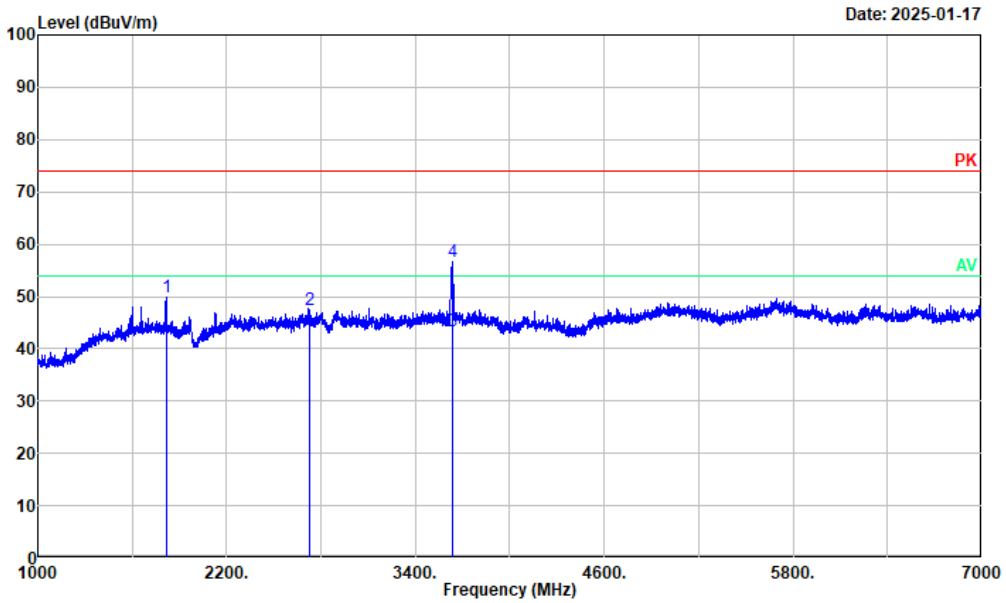


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 4M 906M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	9005.000	52.06	1.70	53.76	74.00	-20.24	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	8M	Channel:	908MHz

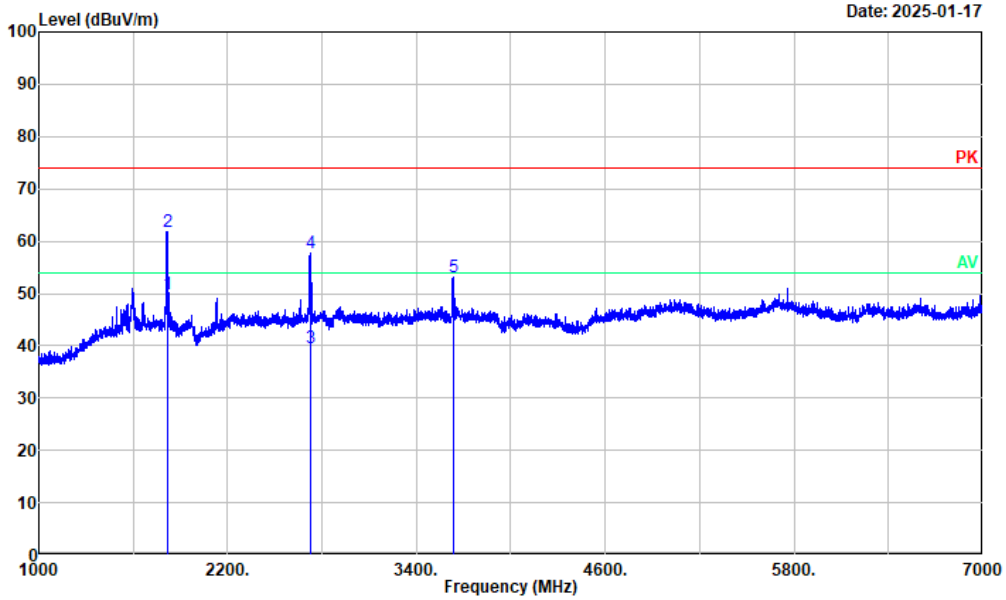


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 8M 908M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1816.000	53.63	-3.78	49.85	74.00	-24.15	Peak
2	2724.000	49.78	-2.35	47.43	74.00	-26.57	Peak
3	3632.000	45.91	-2.60	43.31	54.00	-10.69	Average
4	3632.000	59.22	-2.60	56.62	74.00	-17.38	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	8M	Channel:	908MHz

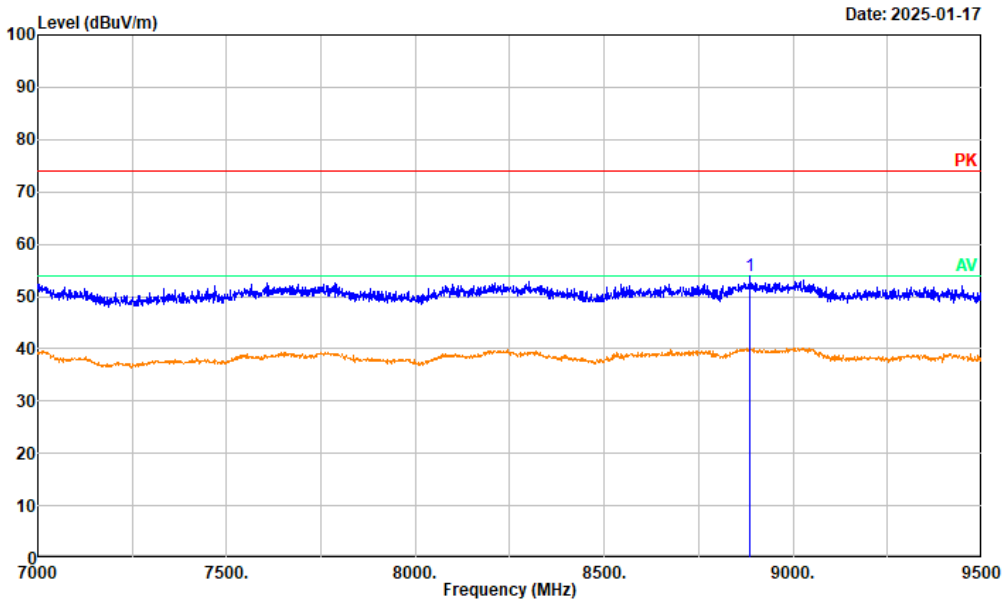


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 8M 908M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1816.000	53.70	-3.78	49.92	54.00	-4.08	Average
2	1816.000	65.68	-3.78	61.90	74.00	-12.10	Peak
3	2724.000	41.96	-2.35	39.61	54.00	-14.39	Average
4	2724.000	60.20	-2.35	57.85	74.00	-16.15	Peak
5	3632.000	55.63	-2.60	53.03	74.00	-20.97	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	8M	Channel:	908MHz

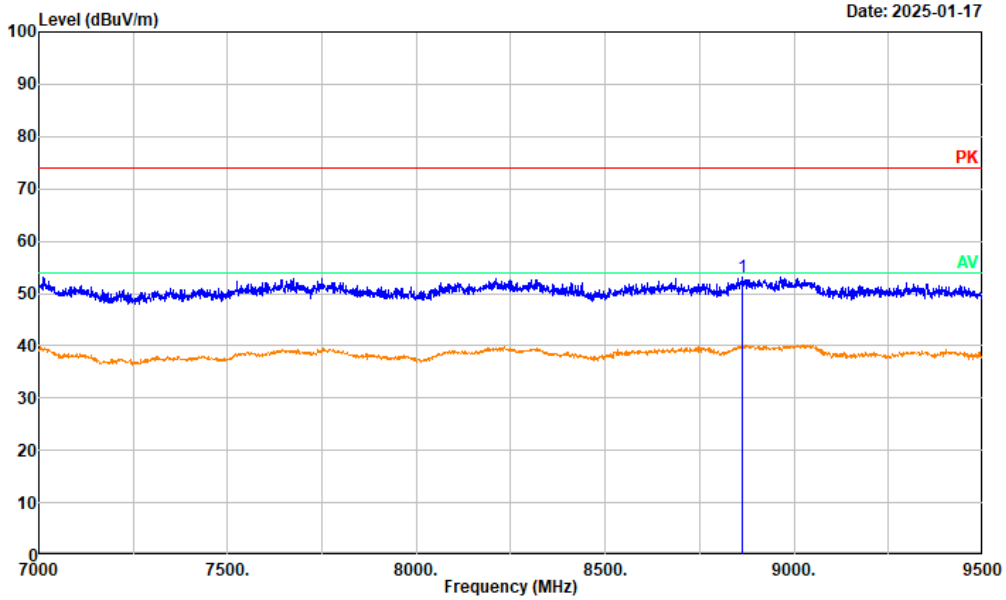


Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 8M 908M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	8887.000	52.19	1.68	53.87	74.00	-20.13	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	8M	Channel:	908MHz



Project No. : 2405Z107560E
Test Mode : Transmiting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/32%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 8M 908M

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	8864.000	51.48	1.65	53.13	74.00	-20.87	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

3.5 RF Conducted Test Data

Test Date:	2025-01-23~2025-02-13	Test By:	Ryan Zhang
Environment condition:	Temperature: 23.1~23.9°C; Relative Humidity:40~41%; ATM Pressure: 100.8~101.5kPa		

3.5.1 6 dB Emission Bandwidth

Mode	Test Frequency (MHz)	Result (MHz)	Limit (MHz)	Verdict
1M	903.5	0.888	≥0.5	Pass
	914.5	0.908	≥0.5	Pass
	926.5	0.880	≥0.5	Pass
2M	905	1.816	≥0.5	Pass
	915	1.824	≥0.5	Pass
	925	1.832	≥0.5	Pass
4M	906	3.648	≥0.5	Pass
	914	3.696	≥0.5	Pass
	926	3.680	≥0.5	Pass
8M	908	7.616	≥0.5	Pass
	916	7.680	≥0.5	Pass
	924	7.488	≥0.5	Pass

3.5.2 99% Occupied Bandwidth

Mode	Test Frequency (MHz)	99% OBW (MHz)
1M	903.5	0.912
	914.5	0.916
	926.5	0.908
2M	905	1.824
	915	1.816
	925	1.824
4M	906	3.664
	914	3.696
	926	3.696
8M	908	7.552
	916	7.584
	924	7.584

3.5.3 Maximum Conducted Peak Output Power

Mode	Test Frequency (MHz)	Peak Output Power(dBm)	Limit (dBm)	Verdict
1M	903.5	23.88	30	Pass
	914.5	23.39	30	Pass
	926.5	22.20	30	Pass
2M	905	24.86	30	Pass
	915	23.48	30	Pass
	925	23.89	30	Pass
4M	906	26.25	30	Pass
	914	25.68	30	Pass
	926	25.11	30	Pass
8M	908	27.86	30	Pass
	916	26.79	30	Pass
	924	27.34	30	Pass

3.5.4 Power Spectral Density

Mode	Test Frequency (MHz)	Result (dBm/3kHz)	Limit (dBm/3kHz)	Verdict
1M	903.5	-0.47	8	Pass
	914.5	-0.65	8	Pass
	926.5	-1.41	8	Pass
2M	905	-3.38	8	Pass
	915	-4.35	8	Pass
	925	-4.41	8	Pass
4M	906	-4.23	8	Pass
	914	-4.68	8	Pass
	926	-5.84	8	Pass
8M	908	-5.23	8	Pass
	916	-6.71	8	Pass
	924	-6.08	8	Pass

3.5.5 100 kHz Bandwidth of Frequency Band Edge

Mode	Test Frequency (MHz)	Result (dB)	Limit (dB)	Verdict
1M	903.5	46.03	20	Pass
	926.5	45.42	20	Pass
2M	905	43.38	20	Pass
	925	44.08	20	Pass
4M	906	41.22	20	Pass
	926	30.23	20	Pass
8M	908	37.28	20	Pass
	924	27.67	20	Pass

3.5.6 Duty Cycle

Mode	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
1M	914.5	100	100	100	/	/	0.010
2M	915	100	100	100	/	/	0.010
4M	914	100	100	100	/	/	0.010
8M	916	100	100	100	/	/	0.010

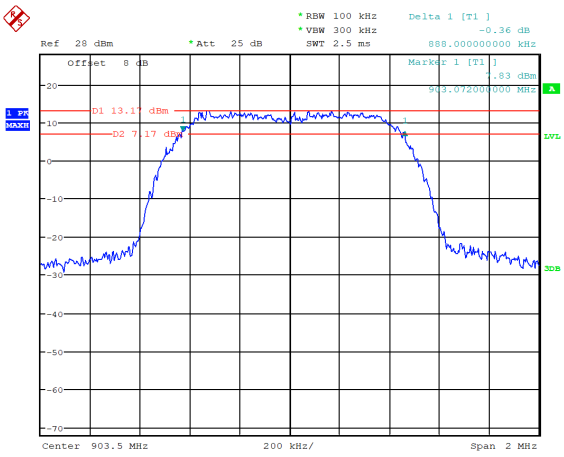
Duty Cycle = Ton/(Ton+Toff)*100%

Test Plots:

6 dB Emission Bandwidth:

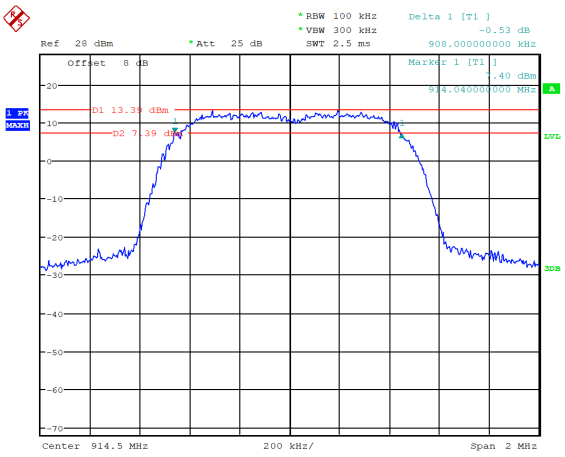
902~928

1M_903.5MHz



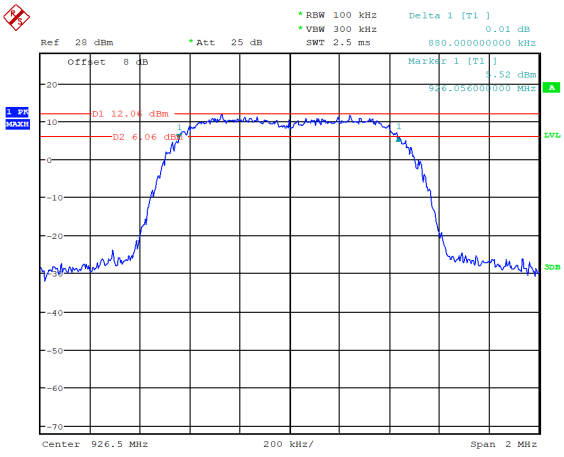
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:48:16

1M_914.5MHz



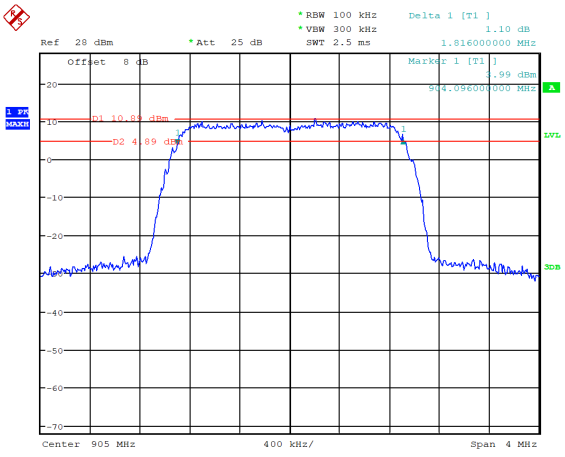
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:50:17

1M_926.5MHz



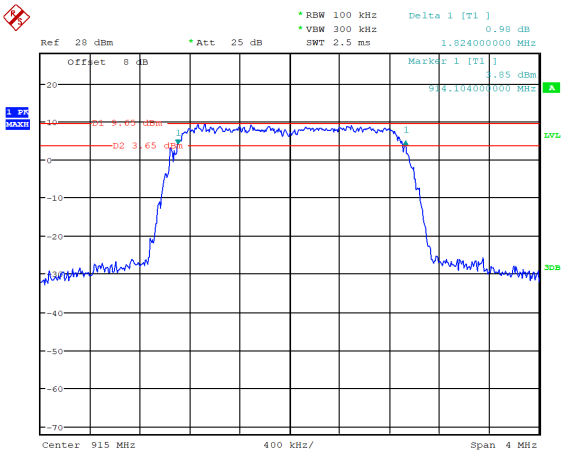
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:52:03

2M_905MHz



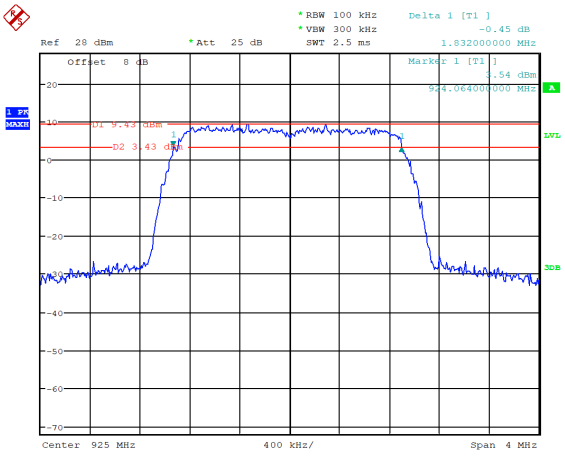
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:03:55

2M_915MHz



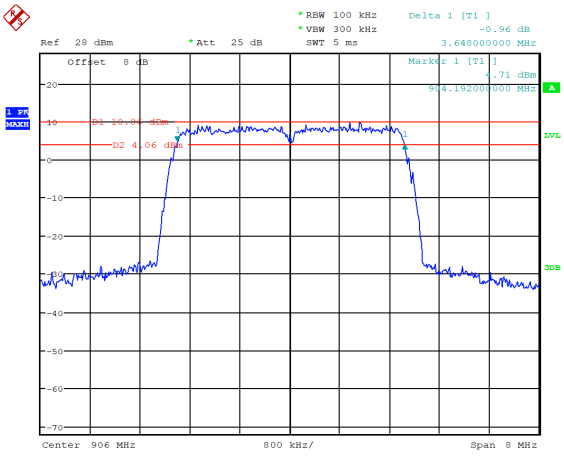
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:04:56

2M_925MHz



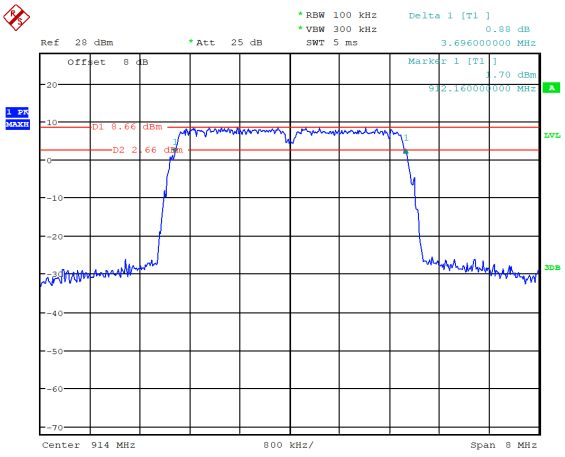
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:05:57

4M_906MHz



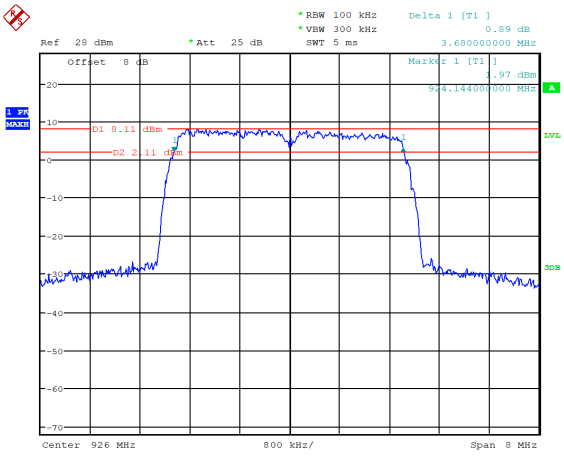
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:21:26

4M_914MHz



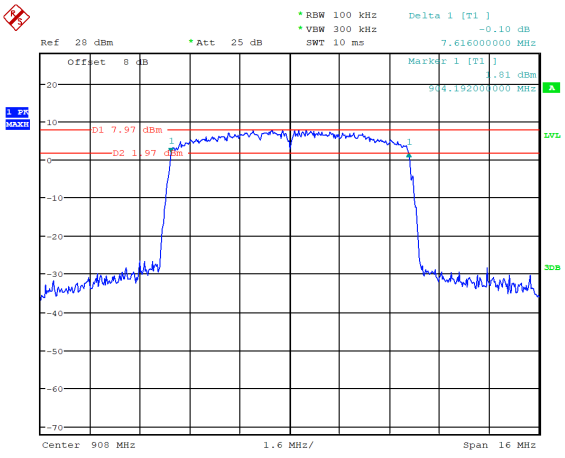
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:10:57

4M_926MHz



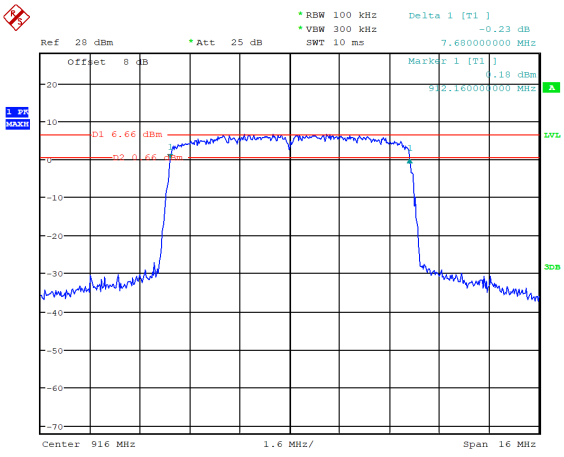
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:12:09

8M_908MHz



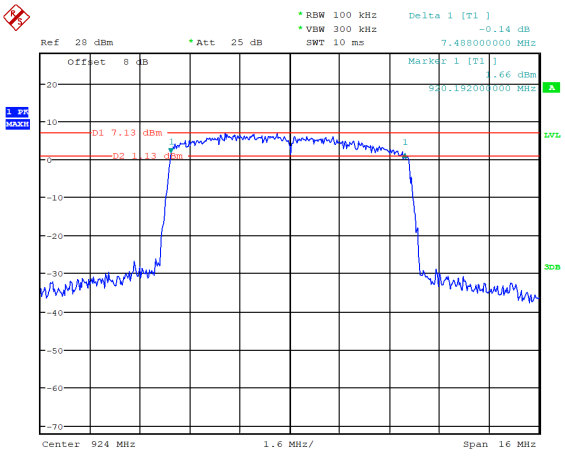
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:21:40

8M_916MHz



Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:23:11

8M_924MHz

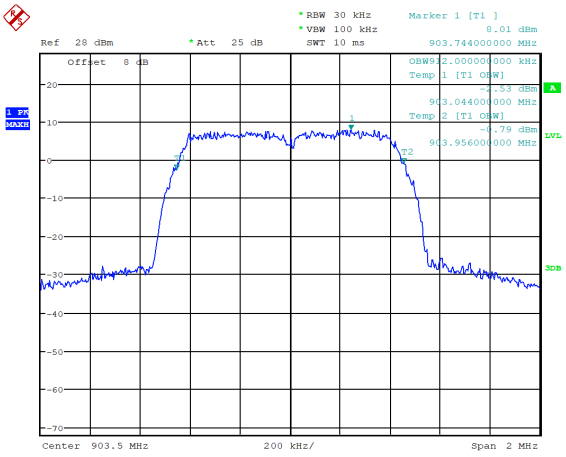


Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:28:13

99% Occupied Bandwidth:

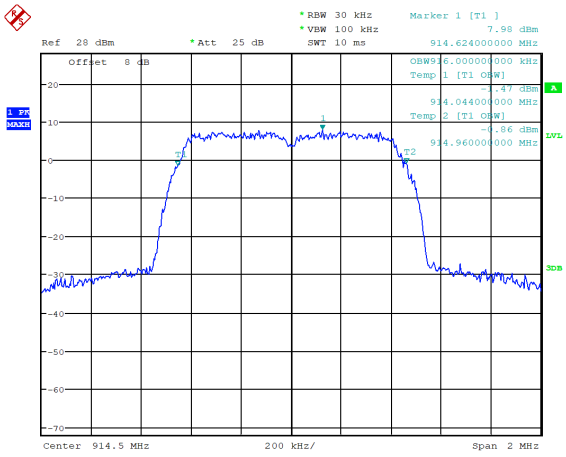
902~928

1M_903.5MHz



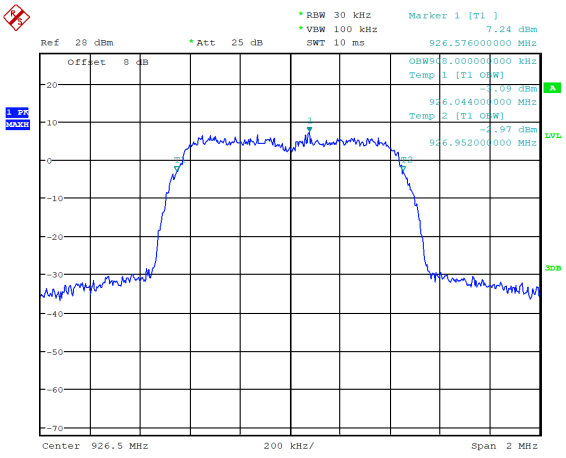
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:49:05

1M_914.5MHz



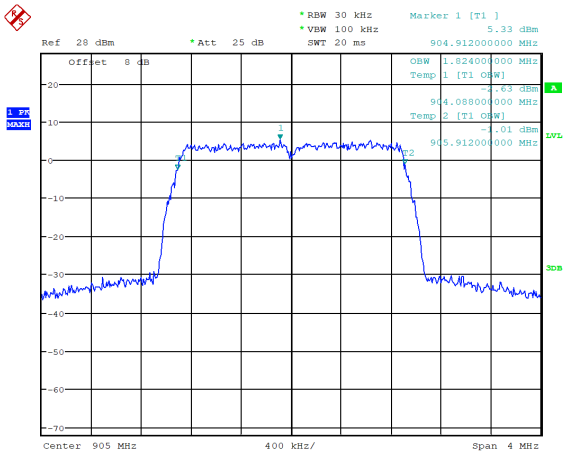
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:51:05

1M_926.5MHz



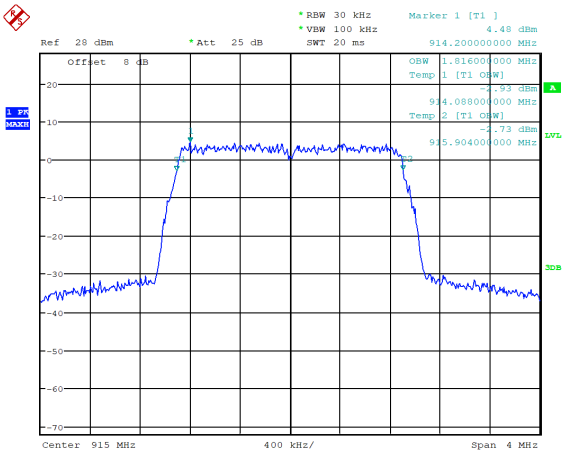
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:52:40

2M_905MHz



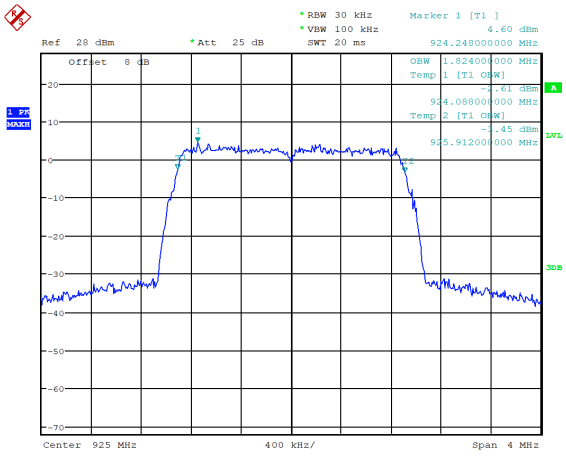
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:04:07

2M_915MHz



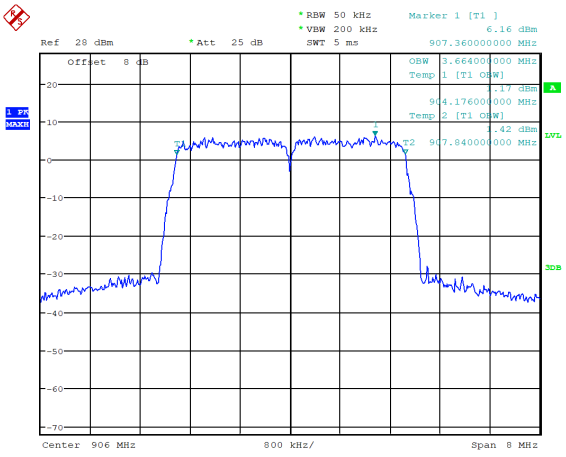
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:05:10

2M_925MHz



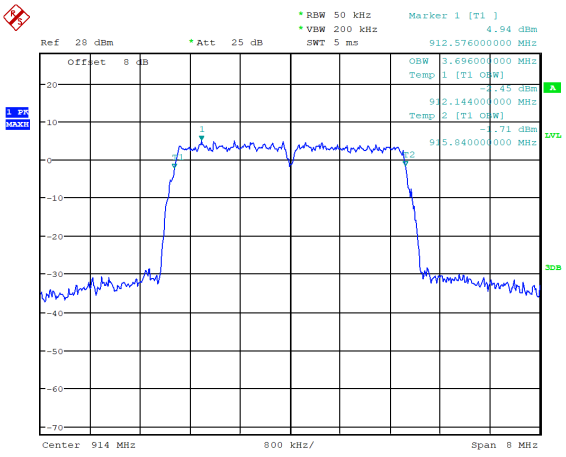
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:06:11

4M_906MHz



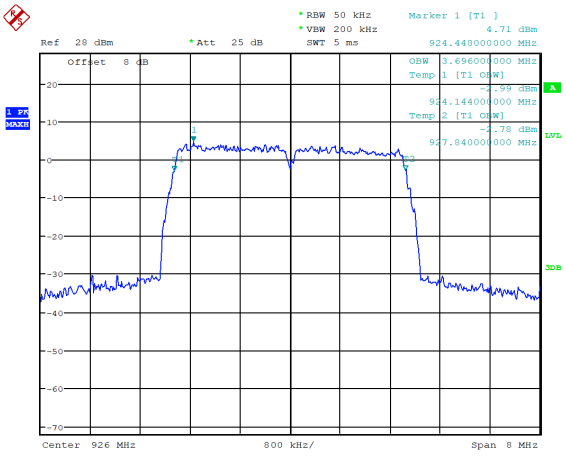
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:21:43

4M_914MHz



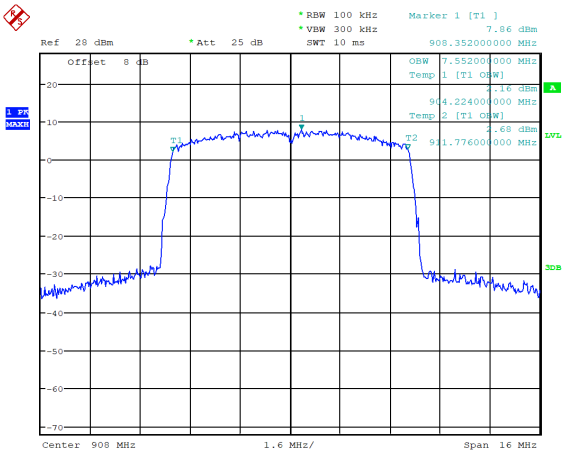
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:11:11

4M_926MHz



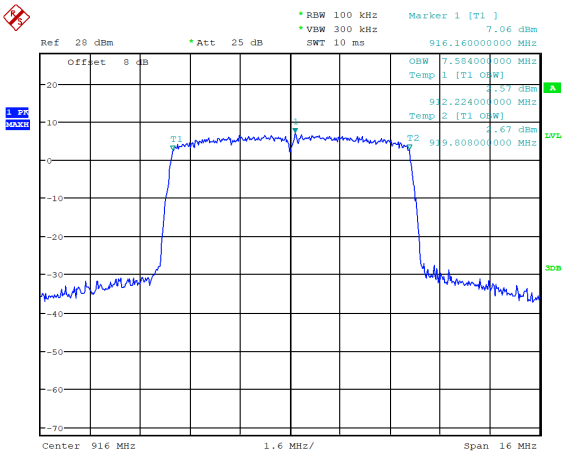
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:12:22

8M_908MHz



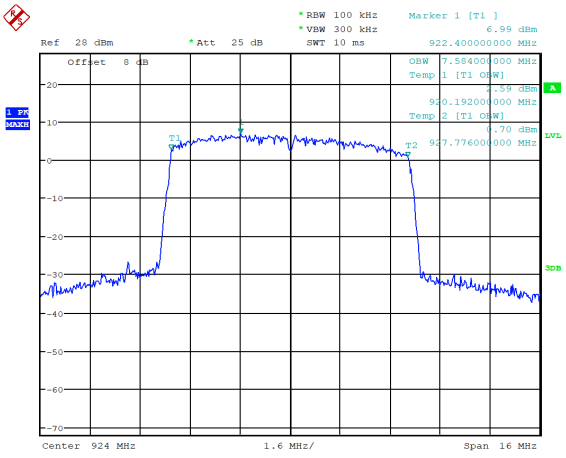
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:29:37

8M_916MHz



Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:30:12

8M_924MHz

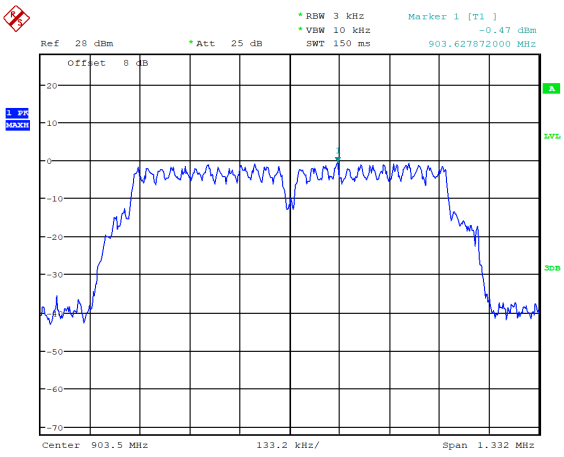


Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:28:27

Power Spectral Density:

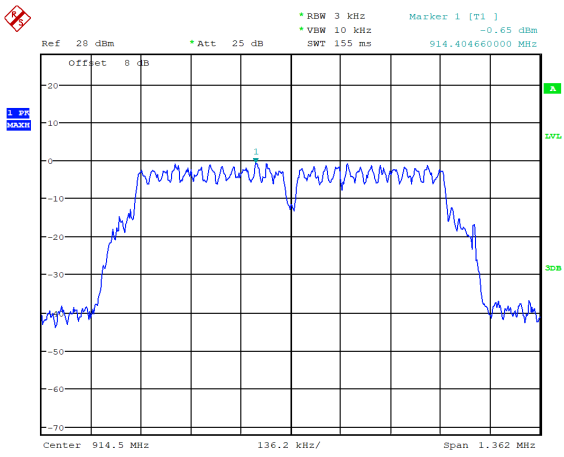
902~928

1M_903.5MHz



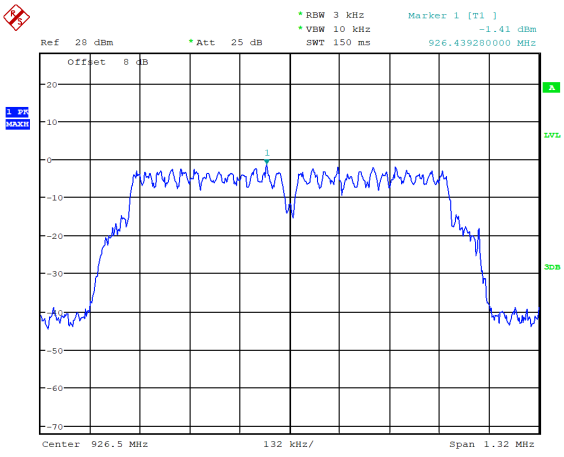
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:49:19

1M_914.5MHz



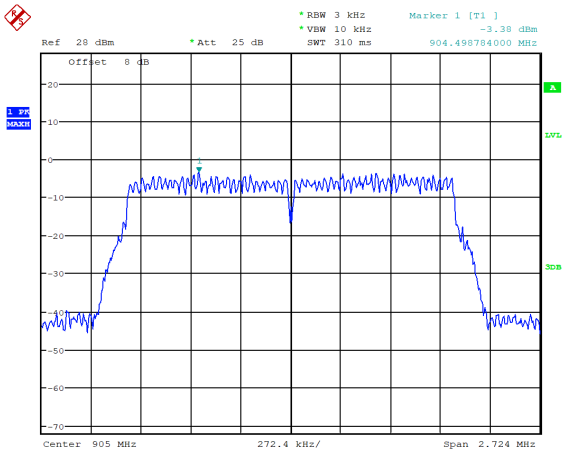
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:51:19

1M_926.5MHz



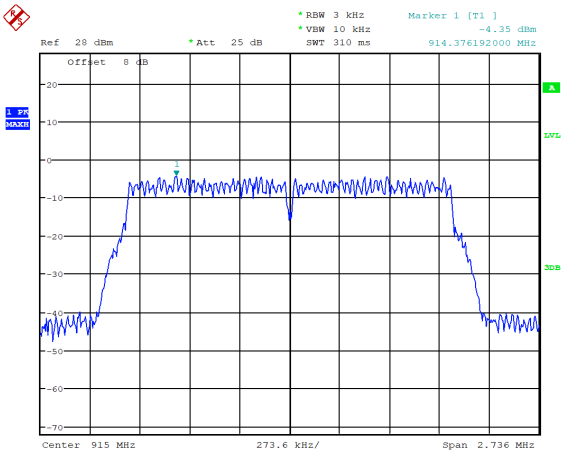
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:52:53

2M_905MHz



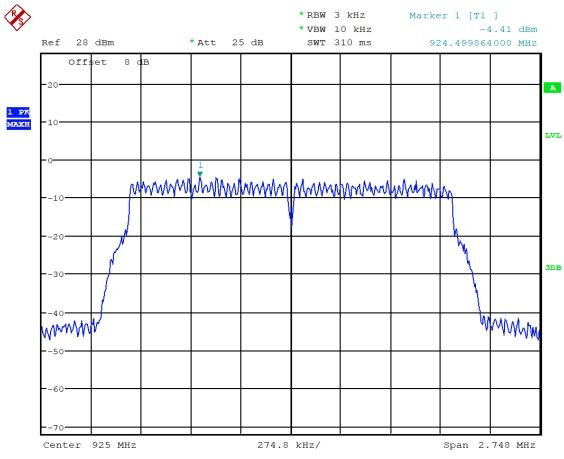
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:04:20

2M_915MHz



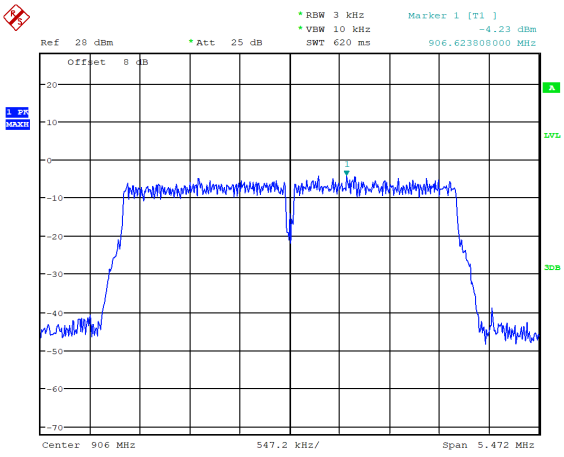
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:05:23

2M_925MHz



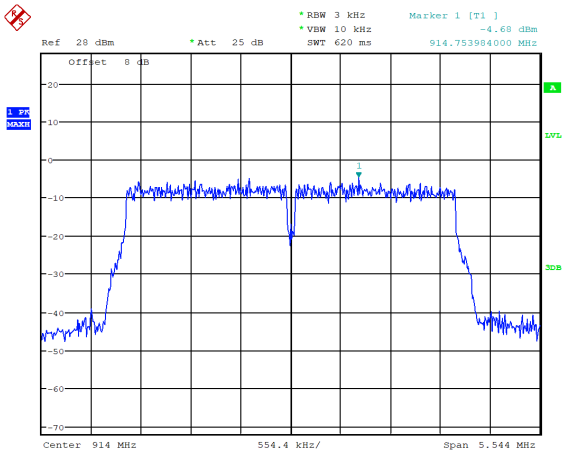
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:06:25

4M_906MHz



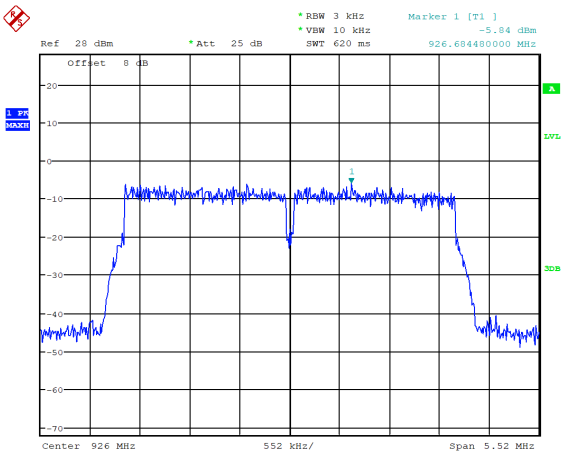
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:21:56

4M_914MHz



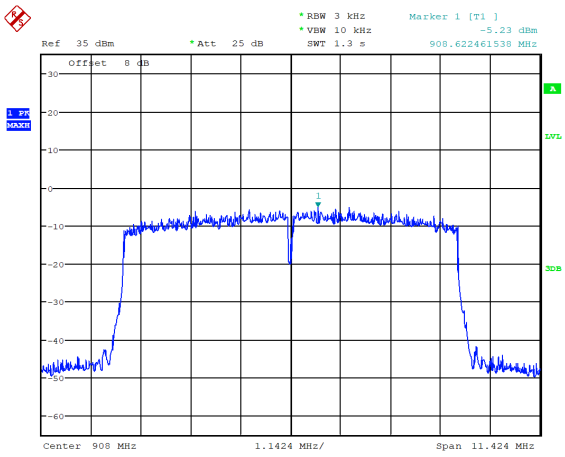
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:11:24

4M_926MHz



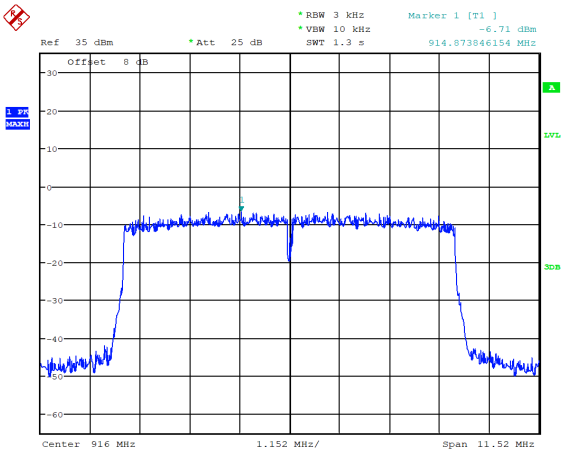
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:12:36

8M_908MHz



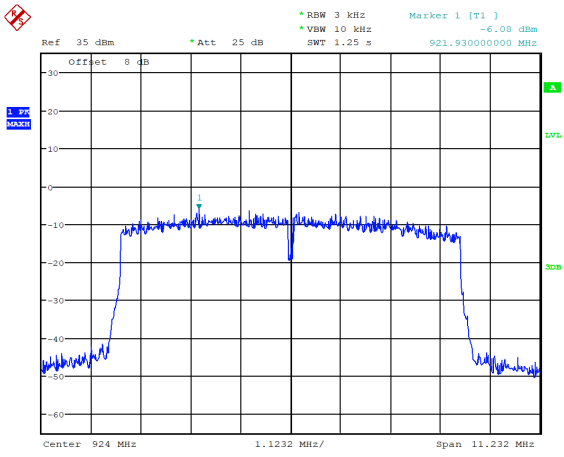
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 17:55:17

8M_916MHz



Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 17:56:55

8M_924MHz

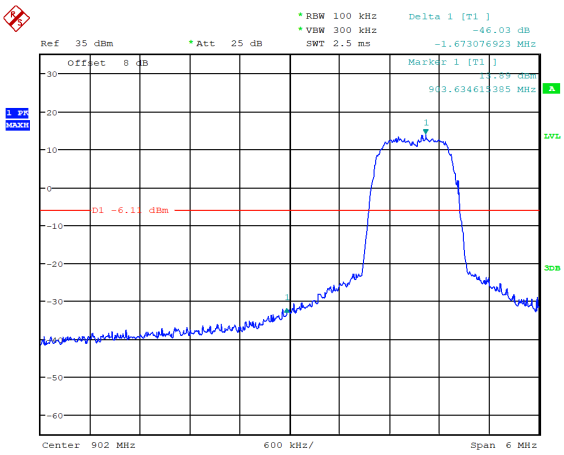


Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 17:59:02

100kHz Bandwidth of Frequency Band Edge:

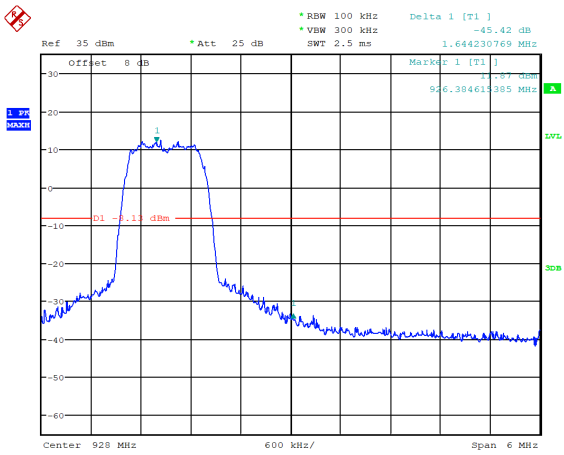
902~928

1M_903.5MHz



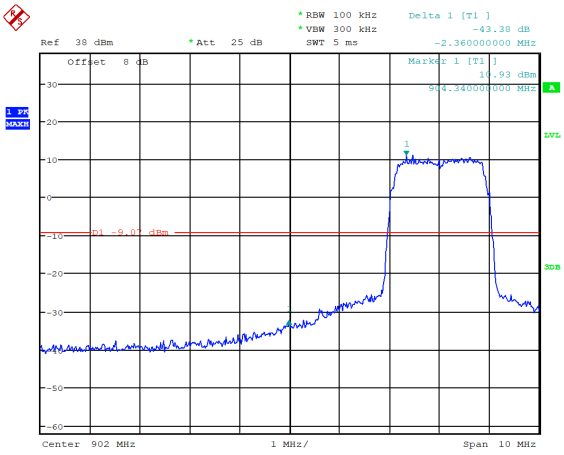
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:45:35

1M_926.5MHz



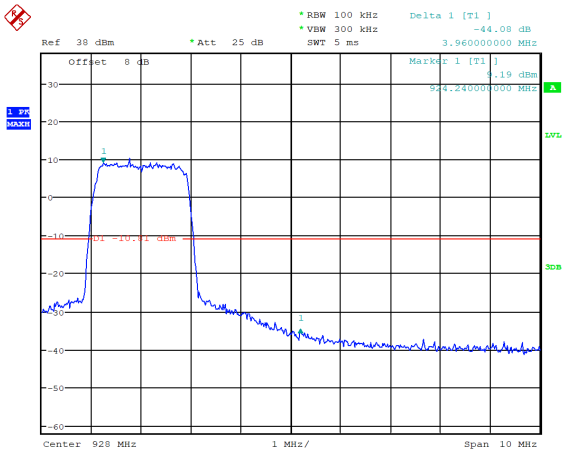
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 14:43:49

2M_905MHz



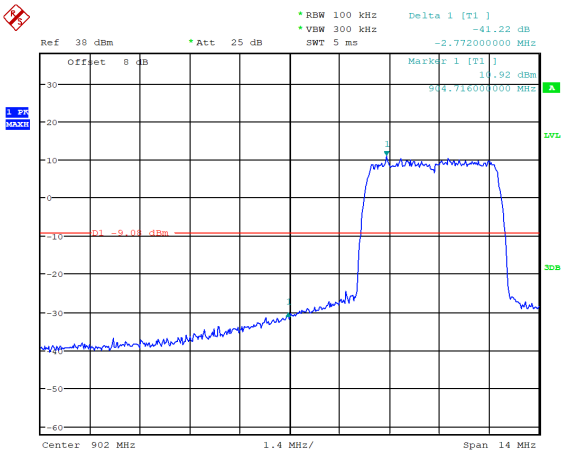
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:01:21

2M_925MHz



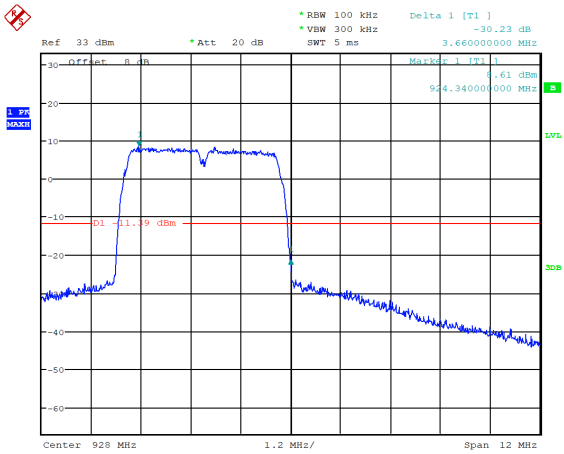
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:00:20

4M_906MHz



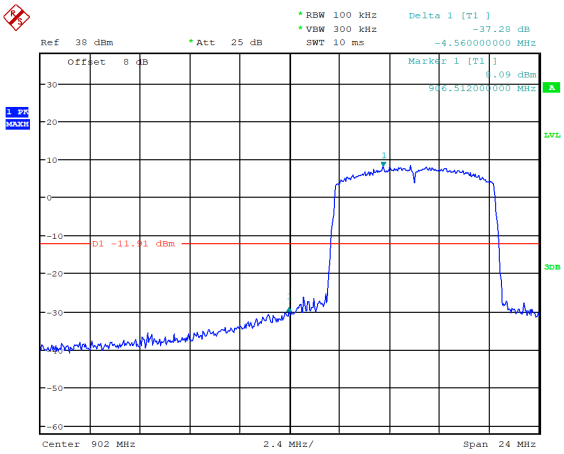
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 15:19:02

4M_926MHz



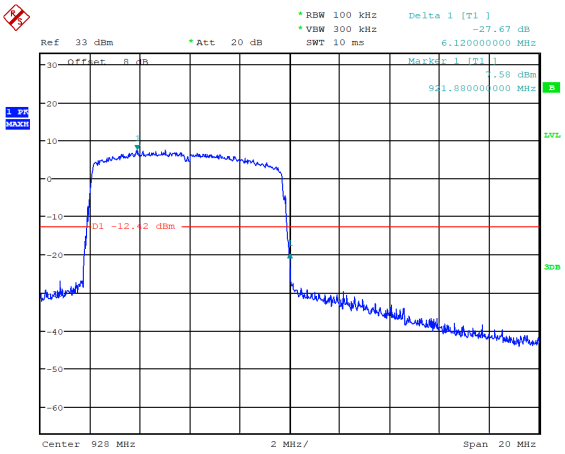
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 13.FEB.2025 19:03:00

8M_908MHz



Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 23.JAN.2025 16:17:22

8M_924MHz

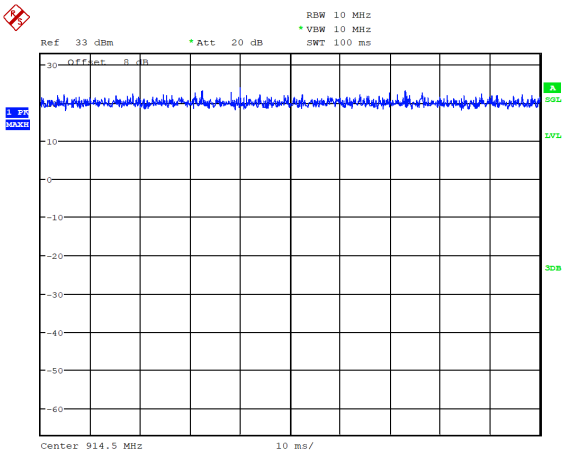


Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 13.FEB.2025 19:04:49

Duty Cycle:

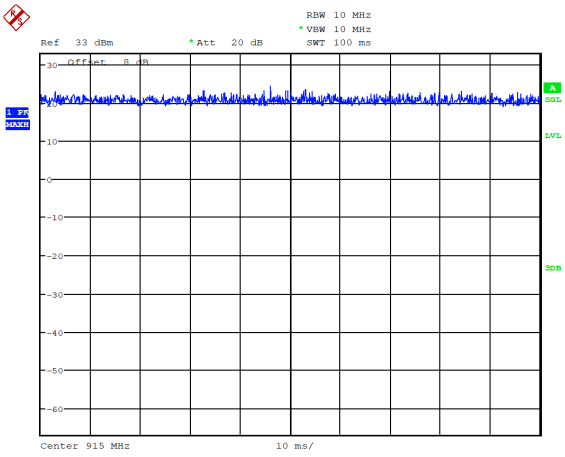
902~928

1M_914.5MHz



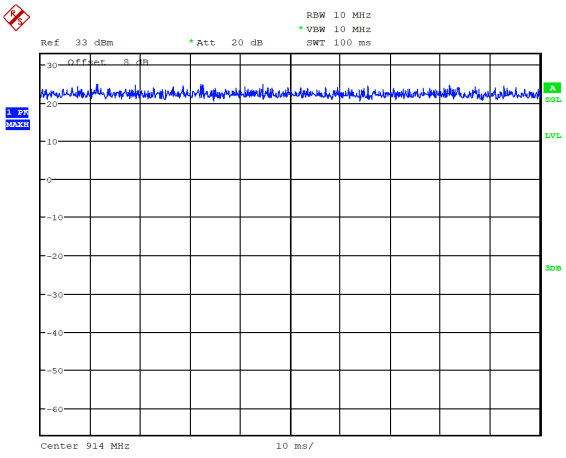
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 13.FEB.2025 17:03:26

2M_915MHz



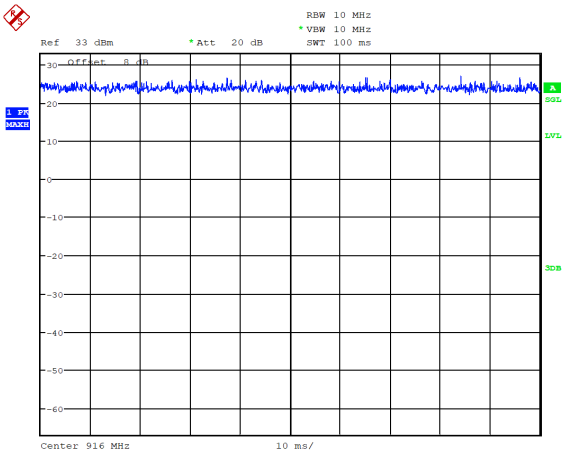
Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 13.FEB.2025 17:04:23

4M_914MHz



Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 13.FEB.2025 17:04:58

8M_916MHz



Project:2405Z107560E-RF Tester: Ryan Zhang
Date: 13.FEB.2025 17:05:39

4 Test Setup Photo

Please refer to the attachment 2405Z107560E Test Setup photo.

5 E.U.T Photo

Please refer to the attachment 2405Z107560E External photo and 2405Z107560E Internal photo.

---End of Report---