FCC Test Report

Report No.:	2405Z107557EE
Applicant:	Zhuhai Glory Technology Co., Ltd
Address:	8F, Bldg 7, No. 178 Dingxing Road, Tangjiawan Town, Zhuhai, Guangdong, China
Product Name:	8 CH Wi-Fi Network Video Recorder
Product Model:	N1
Multiple Models:	N/A
Trade Mark:	N/A
FCC ID:	2BMPT-N1
Standards:	FCC CFR Title 47 Part 15E (§15.407)
Test Date:	2024-12-12 to 2025-02-05
Test Result:	Complied
Issue Date:	2025-02-24

Reviewed by: Abel Chen — Abel Chen, Project Engineer

Approved by: Jacob Gong — Jacob Kong, Manager

Prepared by:

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

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NVLAP TESTING NVLAP LAB CODE 600335-0

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4. 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.

Revision History

Version No.	Issued Date	Description
00	*2025-02-24*	*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 8 CH Wi-Fi Network Video Recorder that contains 2.4G and 5G WLAN radios, this report covers the full testing of the 5G WLAN radio.

Sample Serial number	2V98-1 for CE test, 2V98-2 for RE& RF conducted test (assigned by WATC)
Sample Received Date	2024-12-02
Sample Status	Good Condition
Frequency Range	5150 MHz - 5250MHz (802.11a/n20) 5250 MHz - 5350MHz (802.11a/n20) 5470 MHz - 5725MHz (802.11a/n20) 5725 MHz - 5850MHz (802.11a/n20)
Maximum Conducted Output Power	5150 MHz - 5250MHz: 9.51dBm 5250 MHz - 5350MHz: 11.04dBm 5470 MHz - 5725MHz: 12.60dBm 5725 MHz - 5850MHz: 12.14dBm
Modulation Technology	OFDM
Spatial Streams	SISO (1TX, 1RX)
Antenna Gain#	4.90dBi
Power Supply	DC 12V 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 internal antenna which cannot replace by end-user. Please see the product internal photos for details.

1.4 Related Submittal(s)/Grant(s)

FCC Part 15, Subpart C, Equipment Class: DTS, FCC ID: 2BMPT-N1

1.5 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.*

1.6 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.

1.7 Test Methodology

FCC CFR 47 Part 2

FCC CFR 47 Part 15

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

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: (5150-5250MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	40	5200	44	5220
48	5240	/	/	/	/
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:					
802.11a, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
36	5180	40	5200	48	5240

Operating channels: (5250-5350MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
52	5260	56	5280	60	5300
64	5320	/	/	/	/
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:					
802.11a, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
52	5260	56	5280	64	5320

Operating channels: (5470-5725MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
100	5500	116	5580	132	5660
104	5520	120	5600	136	5680
108	5540	124	5620	140	5700
112	5560	128	5640	144	5720
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:					
802.11a, 802.11n-HT20					

Lowest channel		Middle channel		Highest channel		Straddle channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
100	5500	116	5580	140	5700	144	5720

Operating channels: (5725-5850MHz)					
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
149	5745	157	5785	165	5825
153	5765	161	5805	/	/
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:					
802.11a, 802.11n-HT20					
Lowest channel		Middle channel		Highest channel	
Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
149	5745	157	5785	165	5825

Test Mode:				
Transmitting mode:	Keep the EUT in continuous transmitting with modulation			
Exercise software#:	SecureCRT			
Mode	**Data rate**	**Power Level Setting#**		
		Low Channel	**Middle Channel**	**High Channel**
802.11a	6Mbps	60	60	60
802.11n-HT20	MCS0	60	60	60
The exercise software and the maximum power setting that provided by manufacturer.				

Worst-Case Configuration:
For AC power line conducted emission and radiated emission 9kHz-1GHz and above 18GHz were performed with the EUT transmits at the channel 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.

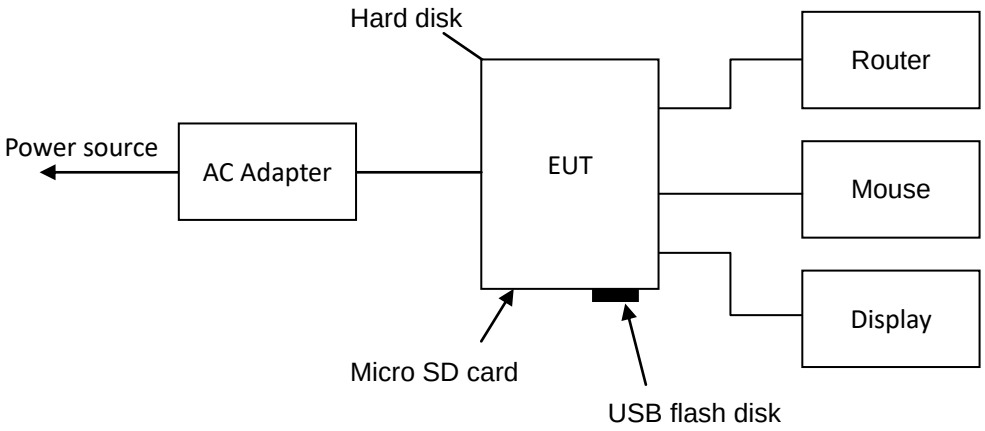
2.2 Test Auxiliary Equipment

Manufacturer	Description	Model	Serial Number
aigo	USB flash disk	unknown	unknown
Dell	Display	unknown	unknown
Lexar	Micro SD card	64GB	unknown
TP-link	Router	unknown	unknown
SAMSUNG	Hard disk	unknown	unknown
C.SA	AC Adapter	CS-1202000	unknown
unknown	Mouse	unknown	unknown

2.3 Interconnecting Cables

Manufacturer	Description	Length(m)	From	To
unknown	USB Cable	1.2	EUT	Mouse
CS	DC Power Cable	1.0	Adapter	EUT
unknown	RJ45 cable	10	EUT	Router
unknown	HDMI cable	1.5	EUT	Display

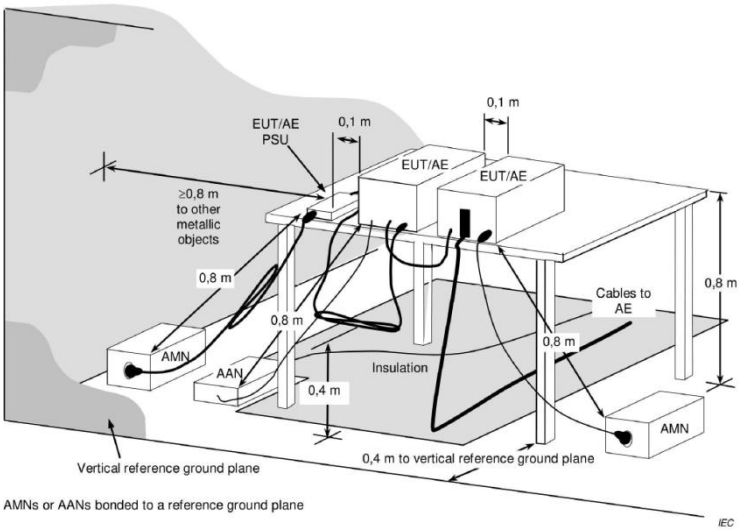
2.4 Block Diagram of Connection between EUT and AE



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

2.5 Test Setup

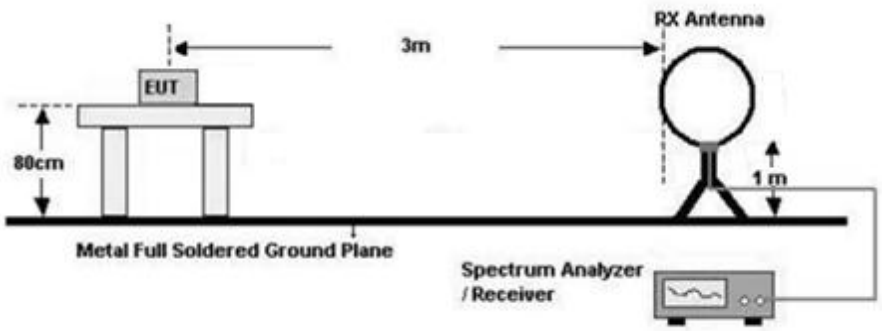
1) Conducted emission measurement:



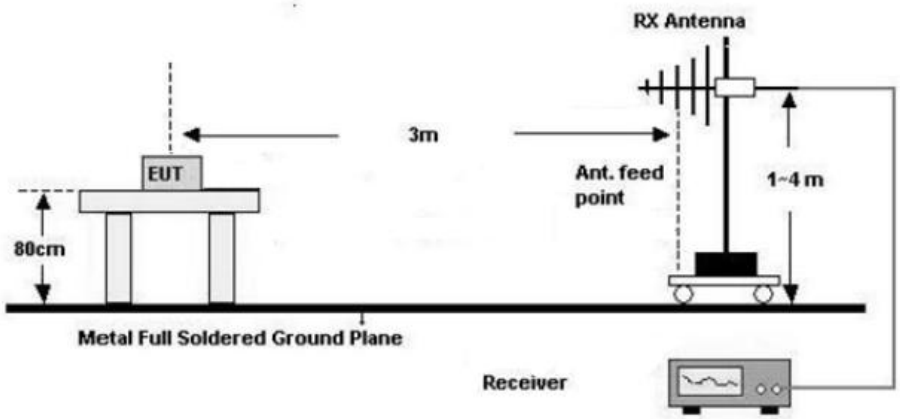
Note: The 0.8 m distance specified between EUT/AE/PSU and AMN/AAN, is applicable only to the EUT being measured. If the device is AE then it shall be >0.8 m.

2) Radiated emission measurement:

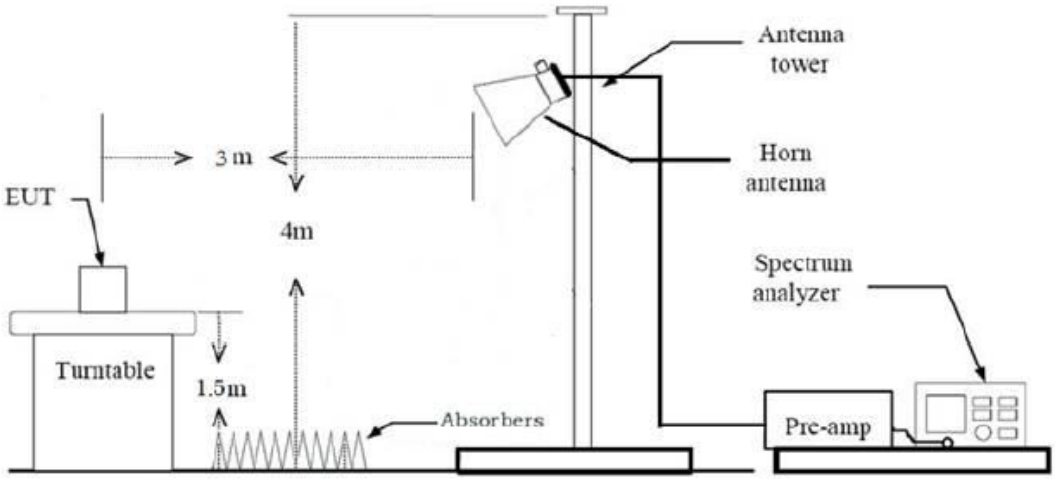
Below 30MHz (3m SAC)



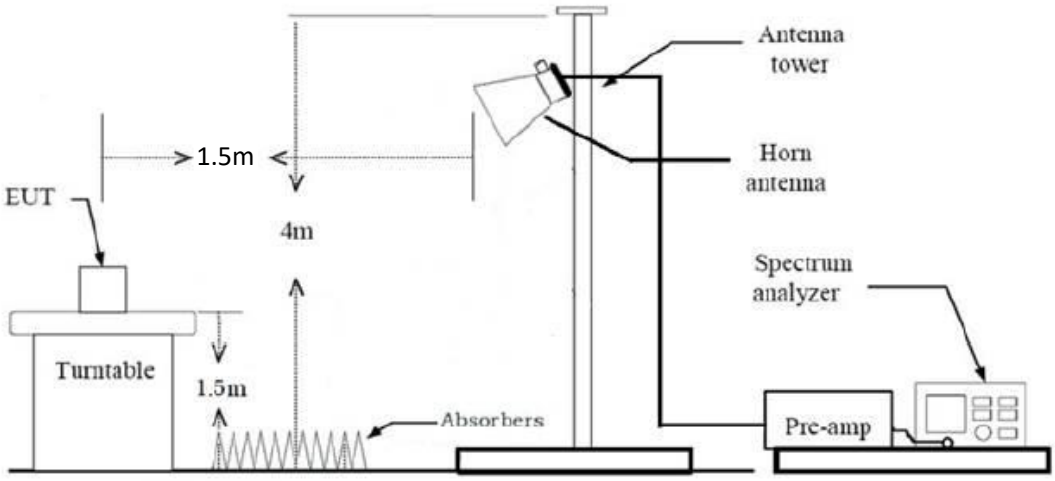
30MHz-1GHz (3m SAC)



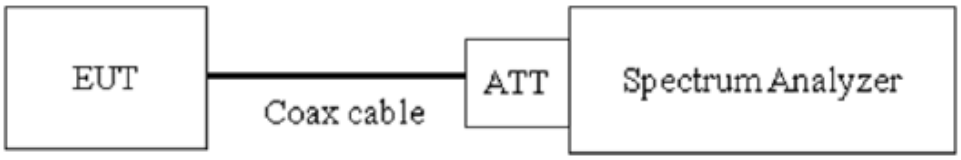
1GHz-18GHz



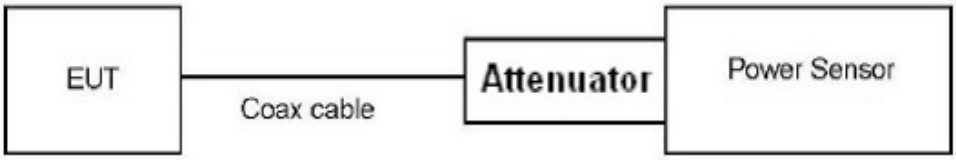
Above 18GHz



3) RF Conducted Test



or



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 200Hz/1kHz for 9kHz to 150kHz range, to 9kHz/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.
6. Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

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 6.0dB 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 C63.10-2013 Section 6.2
Maximum Conducted Output Power	KDB 789033 D02 v02r01 section E.3. a)
Power Spectral Density	KDB 789033 D02 v02r01 section F
26 dB Emission Bandwidth	KDB 789033 D02 v02r01 section C.1
6 dB Emission Bandwidth	KDB 789033 D02 v02r01 section C.2
99% Occupied Bandwidth	KDB 789033 D02 v02r01 section D.
Unwanted Emissions	KDB 789033 D02 v02r01 section G.
Duty Cycle	KDB 789033 D02 v02r01 section B.

2.8 Measurement Equipment

Manufacturer	Description	Model	Management No.	Calibration Date	Calibration Due Date
AC Line 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
COM-POWER	Amplifier	PAM-840A	461306	2024/8/7	2025/8/6
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
Ducommun technologies	Horn Antenna	ARH-4223-02	1007726-03	2023/7/10	2026/7/9
Ducommun technologies	Horn Antenna	ARH-2823-02	1007726-03	2023/7/10	2026/7/9
Oulitong	Band Reject Filter	OBSF-5150-5850-S	OE02104371	2024/6/4	2025/6/3
Unknown	6.7G High Pass Filter	Unknown	6.7G	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.13	N/A	2024/8/7	2025/8/6
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	FSV40	101419	2024/6/4	2025/6/3
ANRITSU	USB Power Sensor	MA24418A	12620	2024/6/4	2025/6/3
narda	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) §15.407 (b)(9)	AC Line Conducted Emissions	Compliance
§15.407 (a)	Maximum Conducted Output Power Power Spectral Density	Compliance
§15.407 (a)(e)	Emission Bandwidth	Compliance
§15.205, §15.209, §15.407 (b)	Unwanted Emissions	Compliance
/	Duty Cycle	Report only

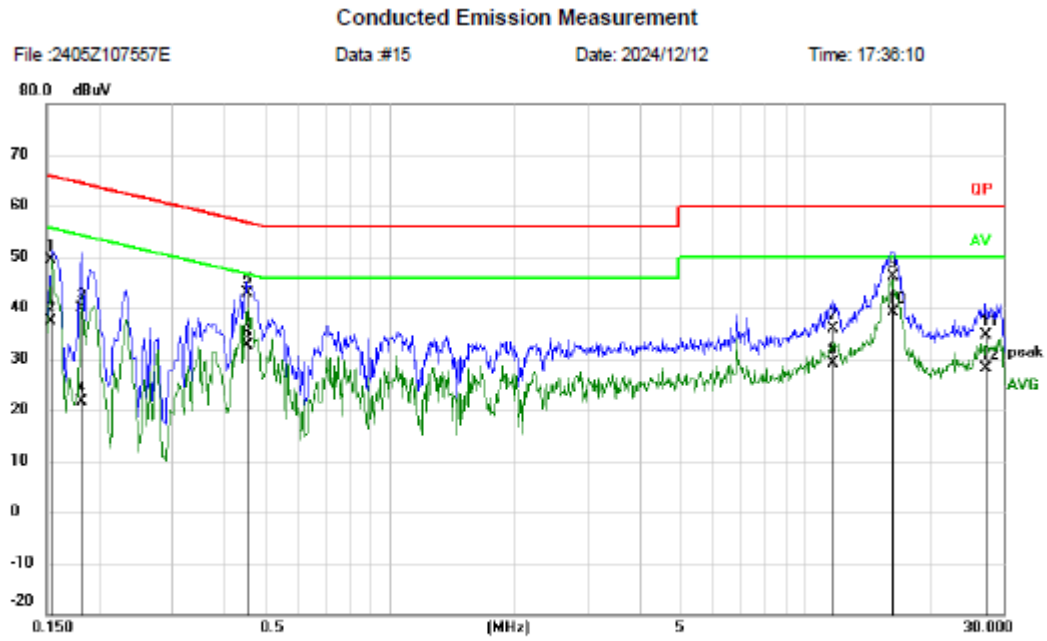
3.2 Limit

Test items	Limit
AC Power Line Conducted Emission	See details §15.207 (a)
Maximum Conducted Output Power Power Spectral Density	**For the band 5.15-5.25 GHz:** For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. **For the band 5. 25-5.35 GHz and band 5. 47-5.725 GHz:** For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. **For the band 5.725-5.850 GHz:** For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, Fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.
26dB Emission Bandwidth 99% Occupied Bandwidth	N/A
6dB Emission Bandwidth	Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

Unwanted Emissions	For transmitters operating in the 5.15–5.25 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. For transmitters operating in the 5.25–5.35 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. For transmitters operating in the 5.47–5.725 GHz band: All emissions outside of the 5.47–5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz. For transmitters operating solely in the 5.725–5.850 GHz band: All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge. Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. The provisions of § 15.205 apply to intentional radiators operating under this section.

3.3 AC Line Conducted Emissions Test Data

Test Date:	2024-12-12	Test By:	Lirou Li
Environment condition:	Temperature: 22.9°C; Relative Humidity:48%; ATM Pressure: 101.1kPa		



Limit: QP
Mode:transmitting
Note: RTL 8731BU B3 802.11a-5700

Phase: L1
Power: AC 120V/60Hz

Temperature: 22.9 ℃
Humidity: 48 %
Air Pressure: 1011 hpa

Receiver Setting: 9~150kHz: Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
0.15~30MHz: Pre-scan: RBW: 9kHz, DET: PK/AV; Final measure: RBW: 9kHz, DET: QP/AV

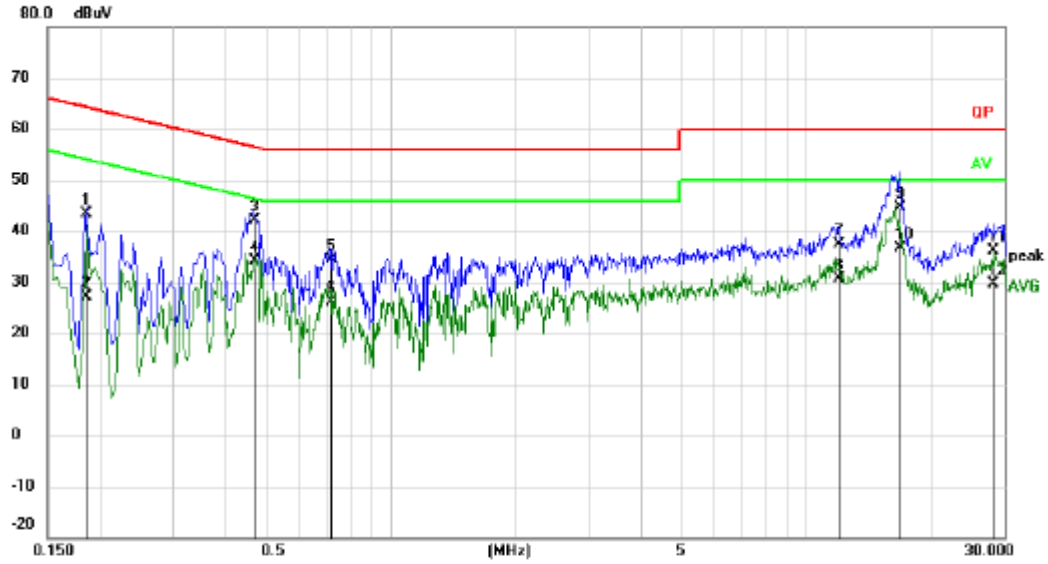
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over Limit		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1539	38.89	10.40	49.29	65.79	-16.50	QP	
2		0.1539	27.04	10.40	37.44	55.79	-18.35	AVG	
3		0.1819	29.54	10.35	39.89	64.40	-24.51	QP	
4		0.1819	11.27	10.35	21.62	54.40	-32.78	AVG	
5		0.4540	32.31	10.50	42.81	56.80	-13.99	QP	
6		0.4540	22.23	10.50	32.73	46.80	-14.07	AVG	
7		11.6819	25.39	10.38	35.77	60.00	-24.23	QP	
8		11.6819	18.68	10.38	29.06	50.00	-20.94	AVG	
9		16.2219	35.83	10.29	46.12	60.00	-13.88	QP	
10	*	16.2219	28.74	10.29	39.03	50.00	-10.97	AVG	
11		27.2340	24.21	10.32	34.53	60.00	-25.47	QP	
12		27.2340	17.80	10.32	28.12	50.00	-21.88	AVG	

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

Engineer Signature: Lirou

Conducted Emission Measurement

File :2405Z107557E Data :#16 Date: 2024/12/12 Time: 17:47:51



Limit: QP Phase: N Temperature: 22.9 ℃
Mode:transmitting Power: AC 120V/60Hz Humidity: 48 %
Note: RTL 8731BU B3 802.11a-5700 Air Pressure: 1011 hpa

Receiver Setting: 9~150kHz: Pre-scan: RBW: 200Hz, DET: PK/AV; Final measure: RBW: 200Hz, DET: QP/AV
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		0.1860	32.98	10.28	43.26	64.21	-20.95	QP	
2		0.1860	16.74	10.28	27.02	54.21	-27.19	AVG	
3		0.4700	31.75	10.50	42.25	56.51	-14.26	QP	
4	*	0.4700	23.58	10.50	34.08	46.51	-12.43	AVG	
5		0.7180	23.84	10.47	34.31	56.00	-21.69	QP	
6		0.7180	15.66	10.47	26.13	46.00	-19.87	AVG	
7		11.9740	26.90	10.41	37.31	60.00	-22.69	QP	
8		11.9740	20.33	10.41	30.74	50.00	-19.26	AVG	
9		16.8020	34.19	10.32	44.51	60.00	-15.49	QP	
10		16.8020	26.43	10.32	36.75	50.00	-13.25	AVG	
11		28.1820	25.90	10.20	36.10	60.00	-23.90	QP	
12		28.1820	19.37	10.20	29.57	50.00	-20.43	AVG	

*:Maximum data x:Over limit !:over margin Engineer Signature: Lirou

Remark:

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

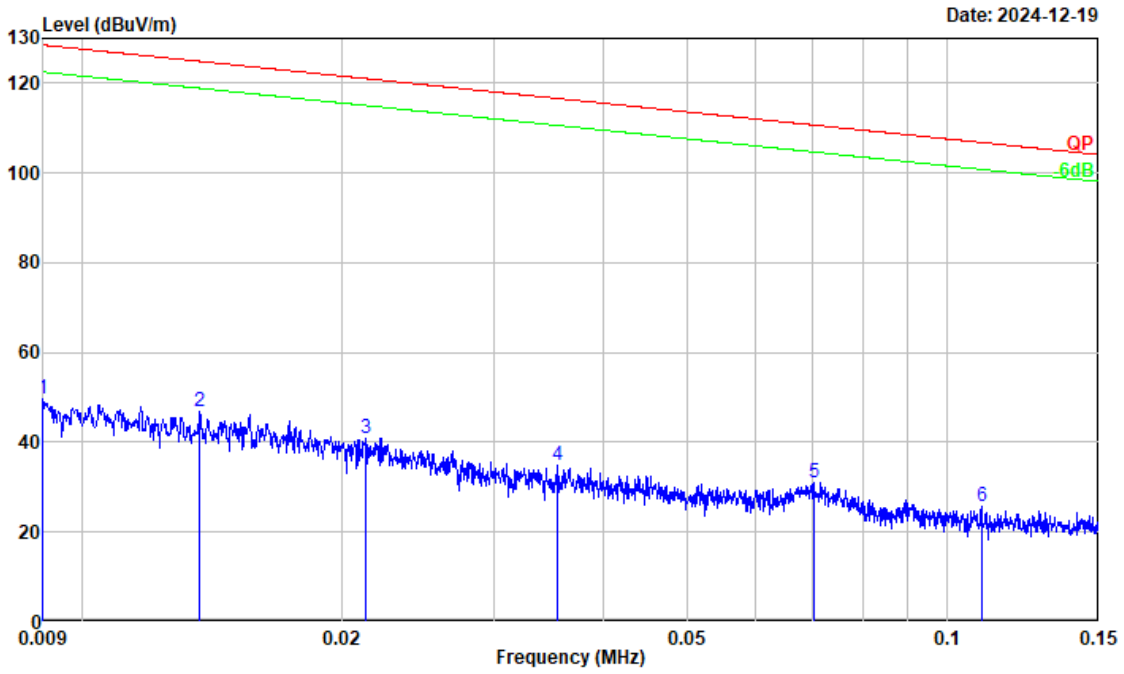
Correct Factor(dB)= LISN Voltage Division Factor (dB)+ Cable loss(dB)

Over Limit = Measurement – Limit

3.4 Radiated emission Test Data

9 kHz-30MHz:

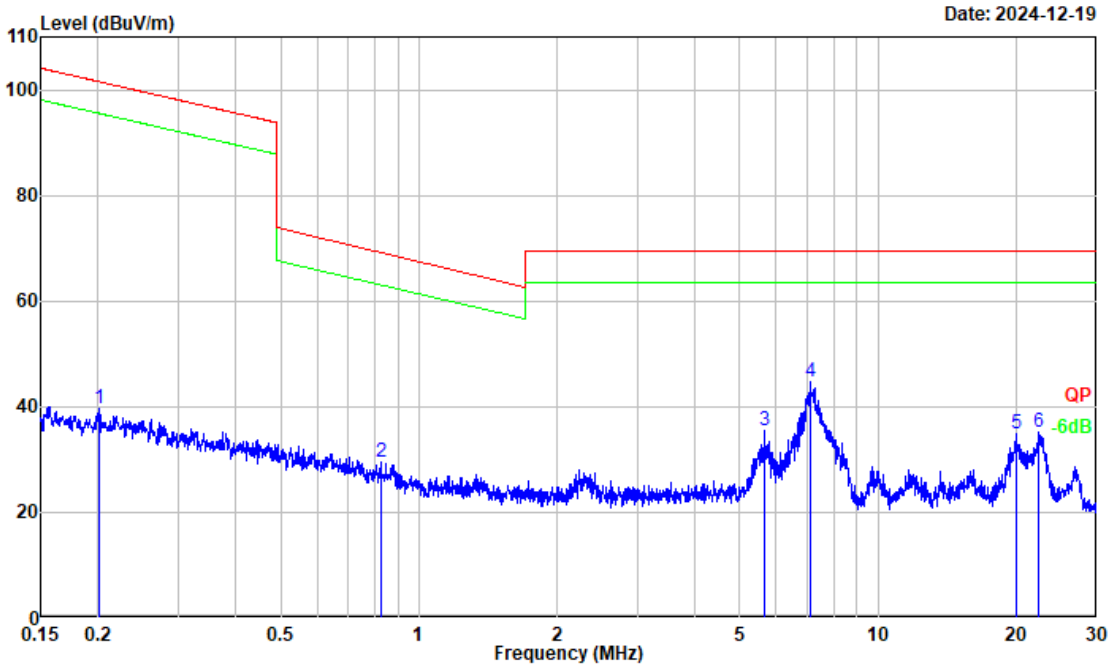
Test Date:	2024-12-19	Test By:	Luke Li
Environment condition:	Temperature: 23.8°C; Relative Humidity:29%; ATM Pressure: 101.4kPa		



Project No. : 2405Z107557E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.8℃/29%R.H./101.4kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : RTL 8731BU B3 802.11a 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.009	11.62	38.01	49.63	128.51	-78.88	Peak
2	0.014	11.95	34.88	46.83	124.88	-78.05	Peak
3	0.021	10.91	30.07	40.98	121.05	-80.07	Peak
4	0.035	11.42	23.40	34.82	116.61	-81.79	Peak
5	0.070	13.54	17.63	31.17	110.68	-79.51	Peak
6	0.110	10.85	14.72	25.57	106.81	-81.24	Peak

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



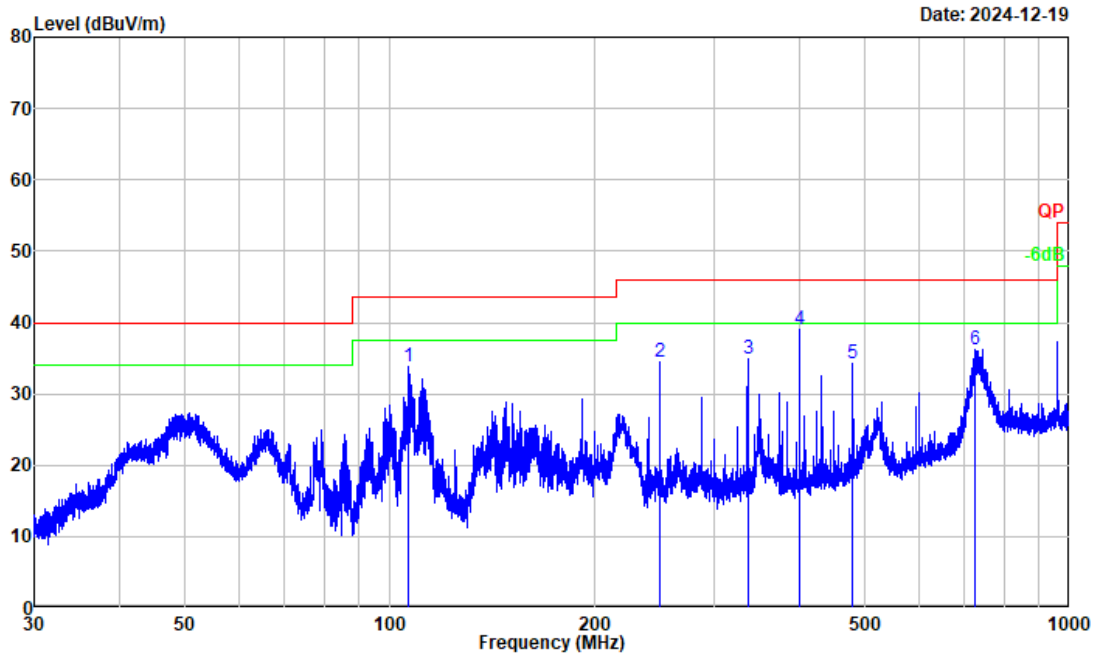
Project No. : 2405Z107557E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 23.8℃/29%R.H./101.4kPa
Tested by : Luke Li
Polarization : PARALLEL
Remark : RTL 8731BU B3 802.11a 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	0.201	27.57	12.13	39.70	101.53	-61.83	Peak
2	0.825	27.35	2.16	29.51	69.18	-39.67	Peak
3	5.660	39.57	-4.04	35.53	69.54	-34.01	Peak
4	7.121	48.78	-3.97	44.81	69.54	-24.73	Peak
5	20.018	38.13	-3.15	34.98	69.54	-34.56	Peak
6	22.414	38.45	-3.39	35.06	69.54	-34.48	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:

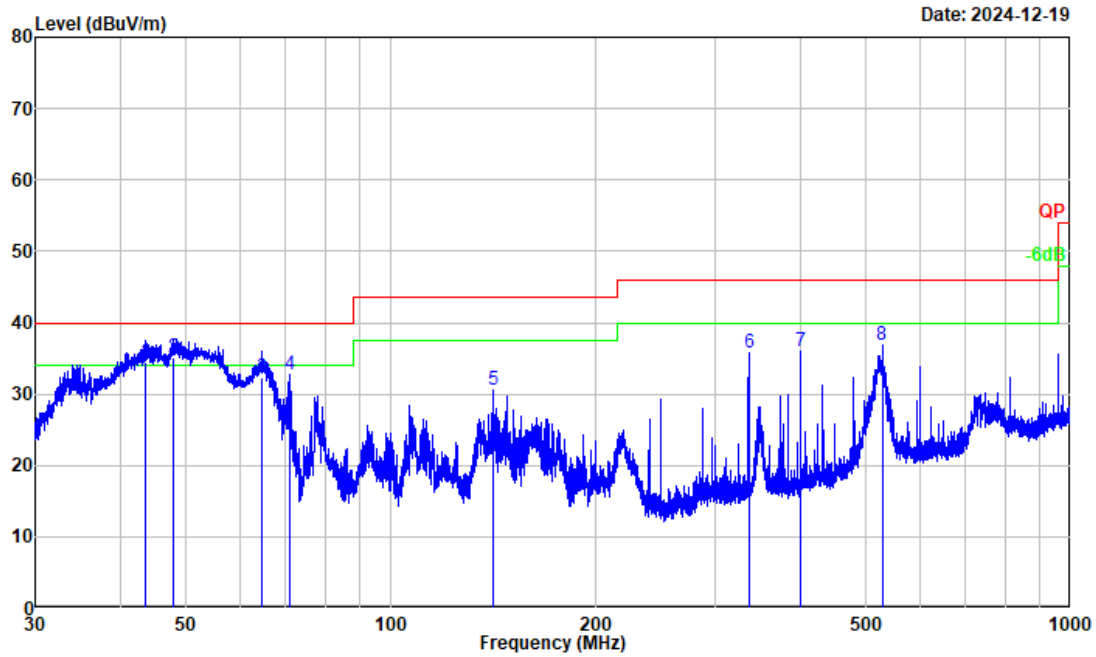
Test Date:	2024-12-19	Test By:	Luke Li
Environment condition:	Temperature: 24.6°C; Relative Humidity:26%; ATM Pressure: 101.5kPa		



Project No. : 2405Z107557E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.6℃/26%R.H./101.5kPa
Tested by : Luke Li
Polarization : horizontal
Remark : RTL 8731BU B3 802.11a-5700

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	106.759	47.81	-13.99	33.82	43.50	-9.68	Peak
2	249.972	46.92	-12.48	34.44	46.00	-11.56	Peak
3	336.035	45.06	-10.24	34.82	46.00	-11.18	Peak
4	400.081	47.77	-8.64	39.13	46.00	-6.87	Peak
5	480.107	42.14	-7.94	34.20	46.00	-11.80	Peak
6	727.443	39.73	-3.49	36.24	46.00	-9.76	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. : 2405Z107557E-RF
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.6℃/26%R.H./101.5kPa
Tested by : Luke Li
Polarization : vertical
Remark : RTL 8731BU B3 802.11a-5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	43.525	46.80	-12.33	34.47	40.00	-5.53	QP
2	47.784	47.20	-12.16	35.04	40.00	-4.96	QP
3	64.773	46.79	-14.40	32.39	40.00	-7.61	QP
4	71.080	49.55	-16.77	32.78	40.00	-7.22	Peak
5	141.206	48.21	-17.59	30.62	43.50	-12.88	Peak
6	336.035	45.95	-10.24	35.71	46.00	-10.29	Peak
7	400.081	44.66	-8.64	36.02	46.00	-9.98	Peak
8	528.014	43.73	-6.90	36.83	46.00	-9.17	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

Remark:

Level = Reading + Factor

Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Level – Limit

Above 1GHz:

Test Date:	2025-01-06~2025-01-16	Test By:	Luke Li
Environment condition:	Temperature: 22.5~24.3°C; Relative Humidity:33~42%; ATM Pressure: 101.3~101.4kPa		

Frequency (MHz)	Reading level (dBμV)	Polar (H/V)	Corrected Factor (dB/m)	Corrected Amplitude (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
5150-5250MHz							
802.11a							
Low Channel							
15540.000	38.64	horizontal	5.12	43.76	54.00	-10.24	Average
15540.000	50.02	horizontal	5.12	55.14	74.00	-18.86	Peak
15540.000	48.70	vertical	5.12	53.82	74.00	-20.18	Peak
Middle Channel							
15600.000	48.16	horizontal	5.02	53.18	74.00	-20.82	Peak
15600.000	38.76	vertical	5.02	43.78	54.00	-10.22	Average
15600.000	49.05	vertical	5.02	54.07	74.00	-19.93	Peak
High Channel							
15720.000	47.37	horizontal	4.42	51.79	74.00	-22.21	Peak
15720.000	46.50	vertical	4.42	50.92	74.00	-23.08	Peak
802.11n20							
Low Channel							
15540.000	38.59	horizontal	5.12	43.71	54.00	-10.29	Average
15540.000	49.13	horizontal	5.12	54.25	74.00	-19.75	Peak
15540.000	48.24	vertical	5.12	53.36	74.00	-20.64	Peak
Middle Channel							
15600.000	48.61	horizontal	5.02	53.63	74.00	-20.37	Peak
15600.000	48.15	vertical	5.02	53.17	74.00	-20.83	Peak
High Channel							
15720.000	48.54	horizontal	4.42	52.96	74.00	-21.04	Peak
15720.000	46.73	vertical	4.42	51.15	74.00	-22.85	Peak
5250-5350MHz							
802.11a							
Low Channel							
15780.000	48.34	horizontal	4.49	52.83	74.00	-21.17	Peak
15780.000	47.28	vertical	4.49	51.77	74.00	-22.23	Peak
Middle Channel							

15840.000	38.59	horizontal	4.65	43.24	54.00	-10.76	Average
15840.000	49.86	horizontal	4.65	54.51	74.00	-19.49	Peak
15840.000	48.57	vertical	4.65	53.22	74.00	-20.78	Peak
High Channel							
15960.000	47.53	horizontal	5.18	52.71	74.00	-21.29	Peak
15960.000	47.54	vertical	5.18	52.72	74.00	-21.28	Peak
802.11n20							
Low Channel							
15780.000	47.29	horizontal	4.49	51.78	74.00	-22.22	Peak
15780.000	47.66	vertical	4.49	52.15	74.00	-21.85	Peak
Middle Channel							
15840.000	47.82	horizontal	4.65	52.47	74.00	-21.53	Peak
15840.000	47.38	vertical	4.65	52.03	74.00	-21.97	Peak
High Channel							
15960.000	47.45	horizontal	5.18	52.63	74.00	-21.37	Peak
15960.000	48.19	vertical	5.18	53.37	74.00	-20.63	Peak
5470-5725MHz							
802.11a							
Low Channel							
11000.000	47.23	horizontal	2.65	49.88	74.00	-24.12	Peak
11000.000	45.87	vertical	2.65	48.52	74.00	-25.48	Peak
Middle Channel							
11160.000	45.72	horizontal	3.93	49.65	74.00	-24.35	Peak
11160.000	45.35	vertical	3.93	49.28	74.00	-24.72	Peak
High Channel							
11400.000	47.90	horizontal	4.40	52.30	74.00	-21.70	Peak
11400.000	47.92	vertical	4.40	52.32	74.00	-21.68	Peak
802.11n20							
Low Channel							
11000.000	46.87	horizontal	2.65	49.52	74.00	-24.48	Peak
11000.000	46.29	vertical	2.65	48.94	74.00	-25.06	Peak
Middle Channel							
11160.000	45.93	horizontal	3.93	49.86	74.00	-24.14	Peak
11160.000	45.15	vertical	3.93	49.08	74.00	-24.92	Peak
High Channel							
11400.000	47.11	horizontal	4.40	51.51	74.00	-22.49	Peak
11400.000	47.93	vertical	4.40	52.33	74.00	-21.67	Peak
5725-5850MHz							

802.11a							
Low Channel							
11490.000	45.99	horizontal	4.54	50.53	74.00	-23.47	Peak
11490.000	45.69	vertical	4.54	50.23	74.00	-23.77	Peak
Middle Channel							
11570.000	48.60	horizontal	3.96	52.56	74.00	-21.44	Peak
11570.000	47.68	vertical	3.96	51.64	74.00	-22.36	Peak
High Channel							
11650.000	47.76	horizontal	3.64	51.40	74.00	-22.60	Peak
11650.000	49.85	vertical	3.64	53.49	74.00	-20.51	Peak
802.11n20							
Low Channel							
11490.000	46.05	horizontal	4.54	50.59	74.00	-23.41	Peak
11490.000	46.42	vertical	4.54	50.96	74.00	-23.04	Peak
Middle Channel							
11570.000	47.45	horizontal	3.96	51.41	74.00	-22.59	Peak
11570.000	48.23	vertical	3.96	52.19	74.00	-21.81	Peak
High Channel							
11650.000	48.00	horizontal	3.64	51.64	74.00	-22.36	Peak
11650.000	47.83	vertical	3.64	51.47	74.00	-22.53	Peak

Remark:

Corrected Amplitude= Reading level + corrected Factor

Corrected Factor = Antenna factor + Cable loss – Amplifier gain

Margin = Corrected Amplitude – Limit

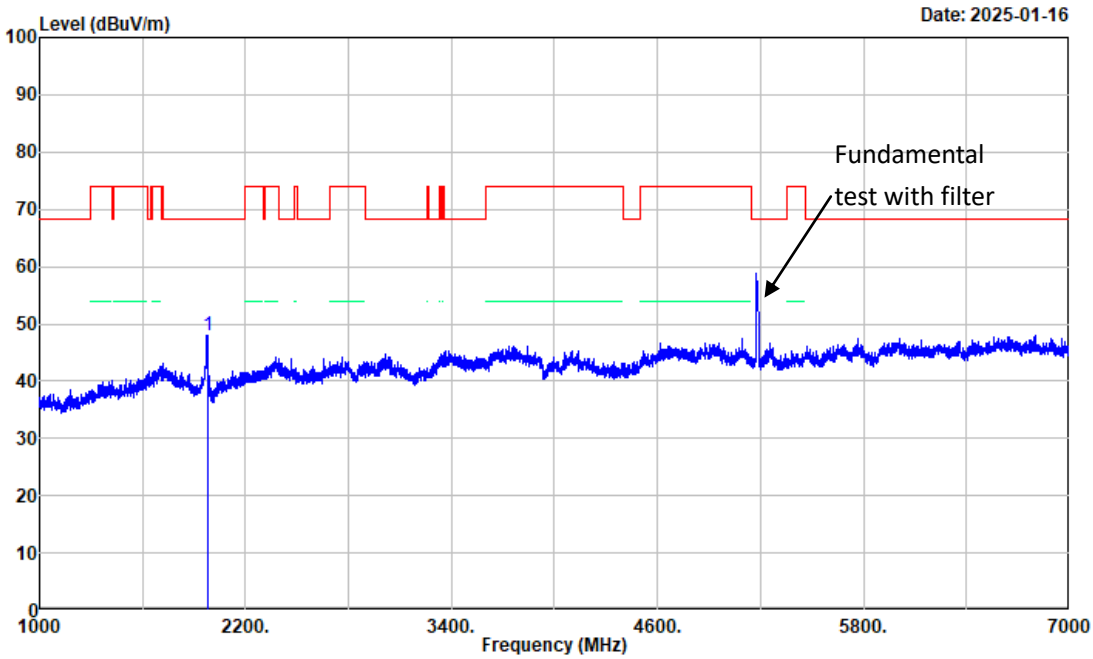
For the test result of Peak below the Peak limit more than 20dB, which can compliance with the average limit, just the Peak level was recorded.

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

For emissions in 18GHz-40GHz range, all emissions were investigated and in the noise floor level.

Test plot for worst case as below:

Mode:	802.11a	Channel:	5200MHz

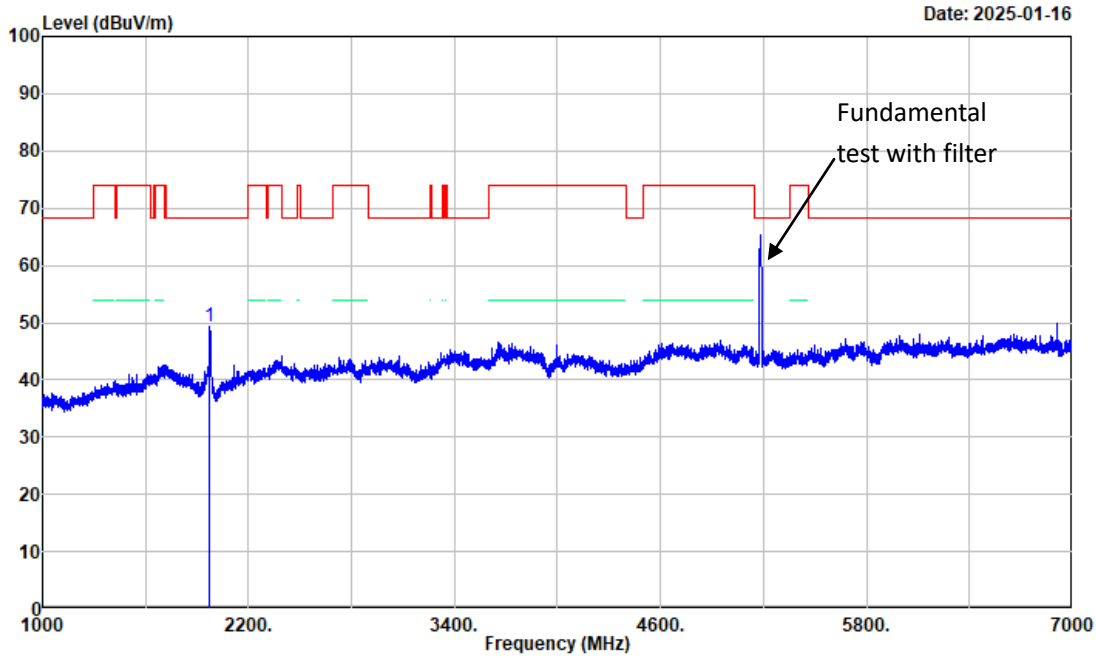


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5200

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1978.000	53.52	-5.58	47.94	68.20	-20.26	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:	802.11a	Channel:	5200MHz

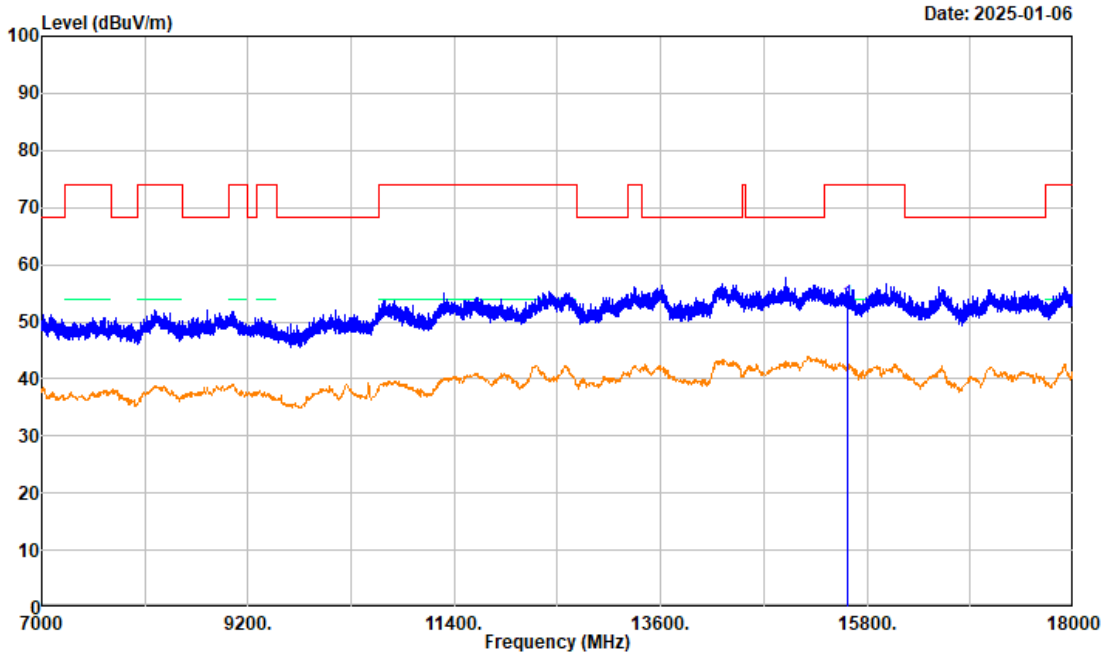


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5200

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1976.000	54.73	-5.54	49.19	68.20	-19.01	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:	802.11a	Channel:	5200MHz

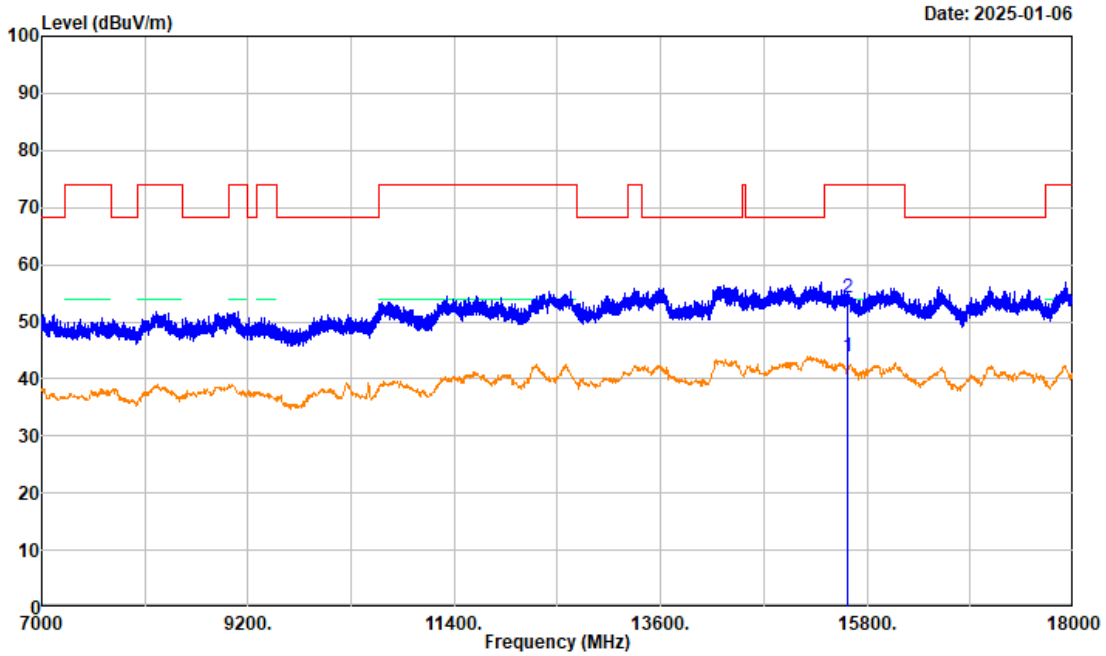


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5200

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15600.000	48.16	5.02	53.18	74.00	-20.82	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:	802.11a	Channel:	5200MHz

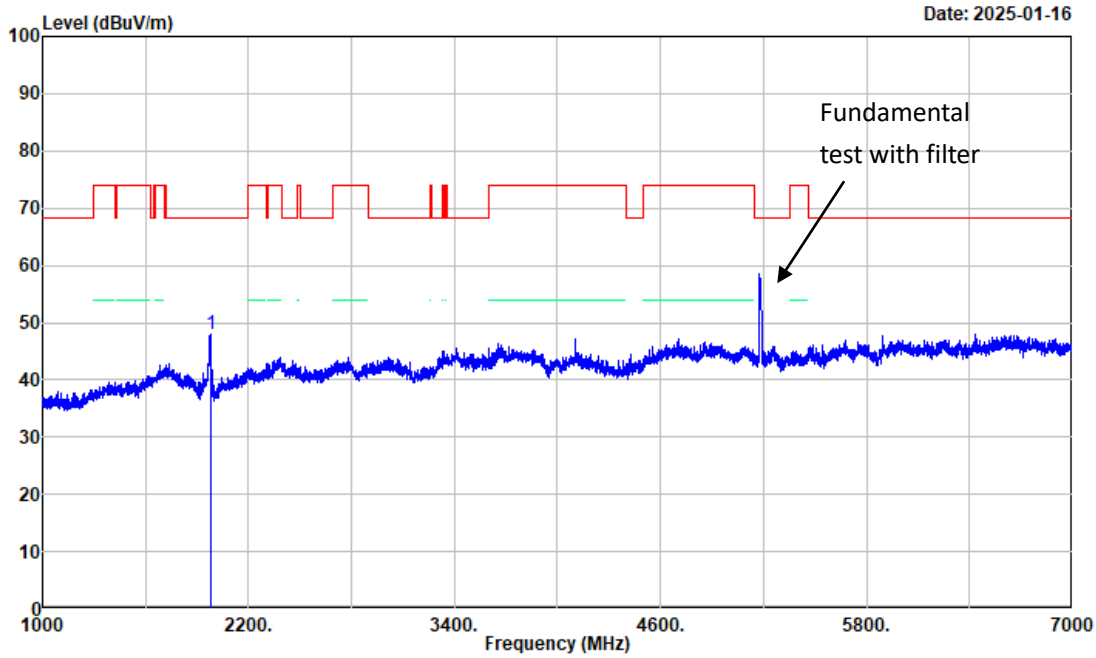


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5200

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15600.000	38.76	5.02	43.78	54.00	-10.22	Average
2	15600.000	49.05	5.02	54.07	74.00	-19.93	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:	802.11n20	Channel:	5180MHz

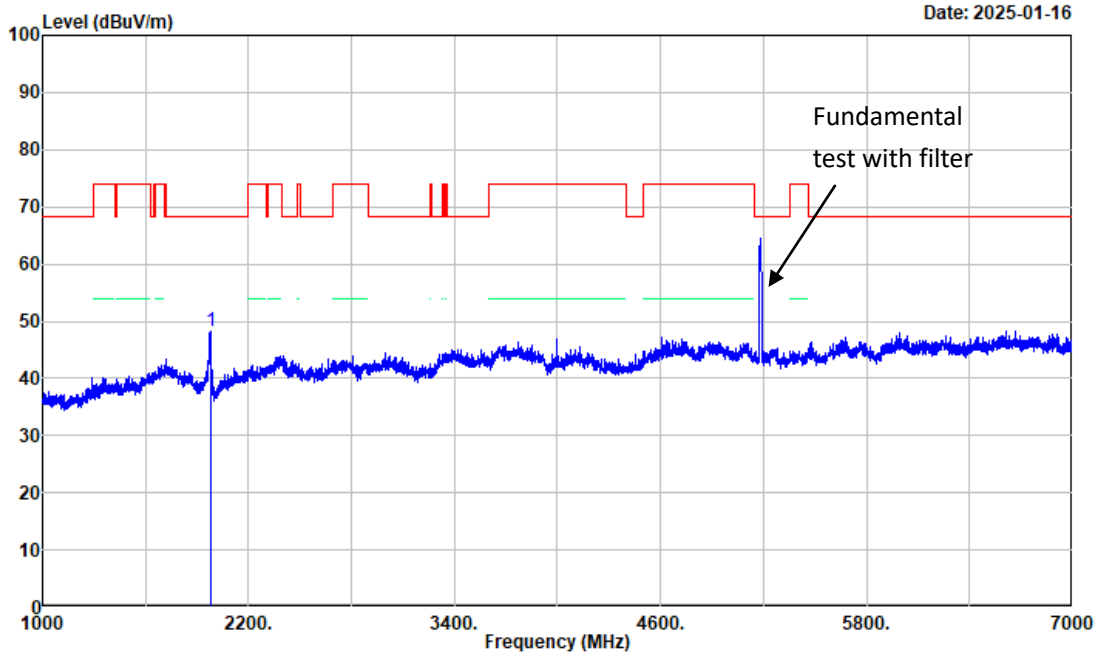


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5180

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1977.000	53.50	-5.56	47.94	68.20	-20.26	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:	802.11n20	Channel:	5180MHz

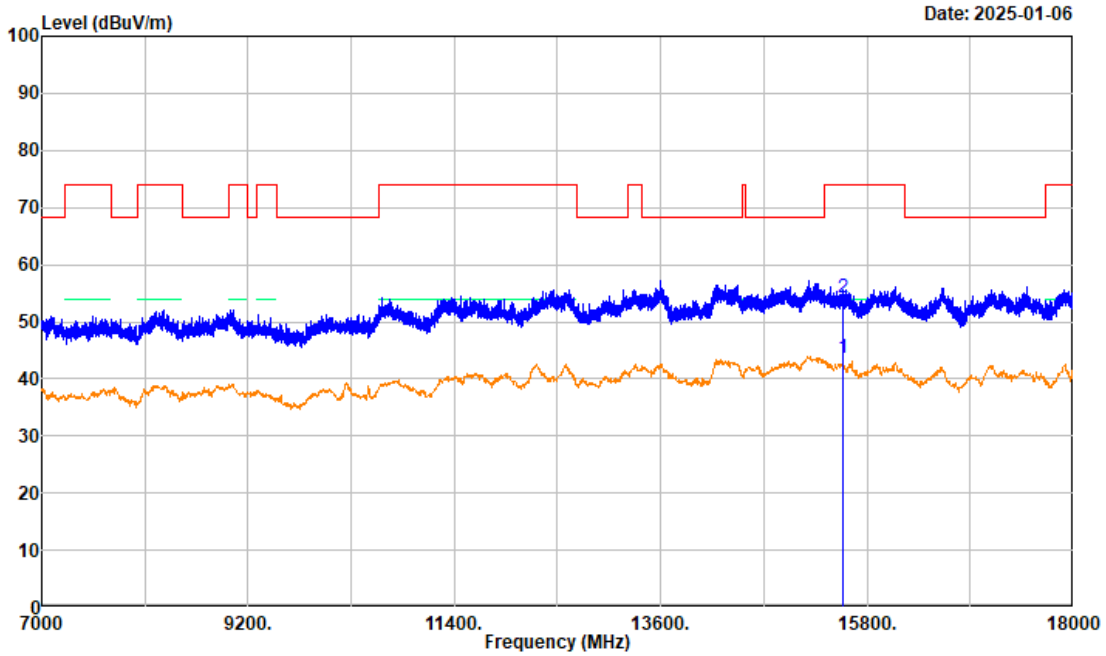


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5180

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1977.000	53.74	-5.56	48.18	68.20	-20.02	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:	802.11n20	Channel:	5180MHz

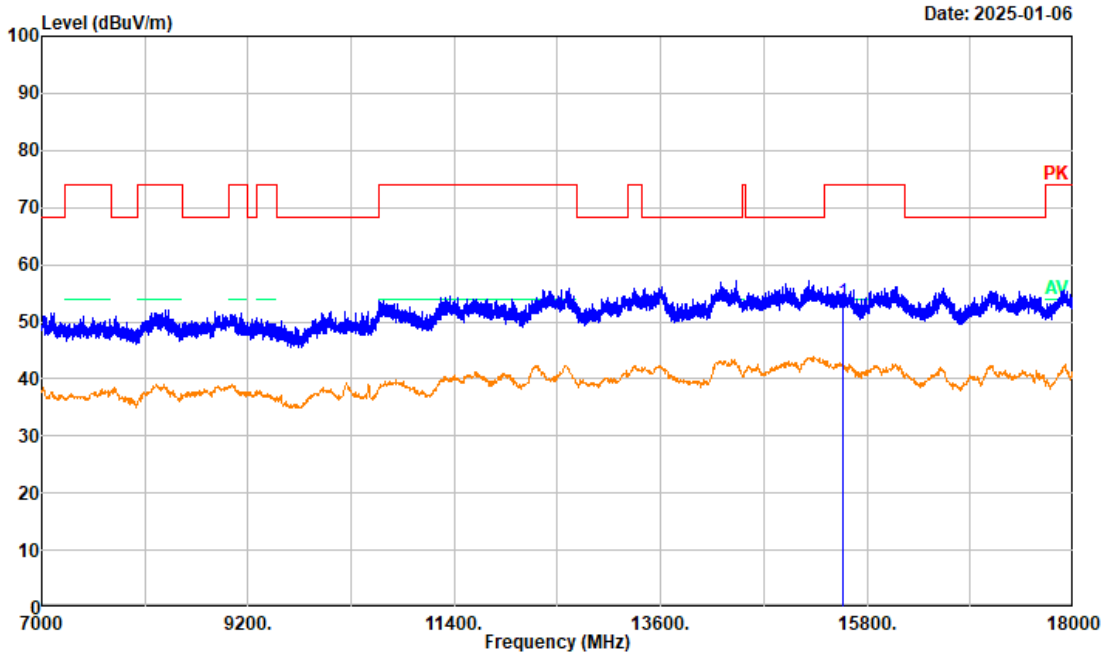


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5180

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15540.000	38.59	5.12	43.71	54.00	-10.29	Average
2	15540.000	49.13	5.12	54.25	74.00	-19.75	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:	802.11n20	Channel:	5180MHz

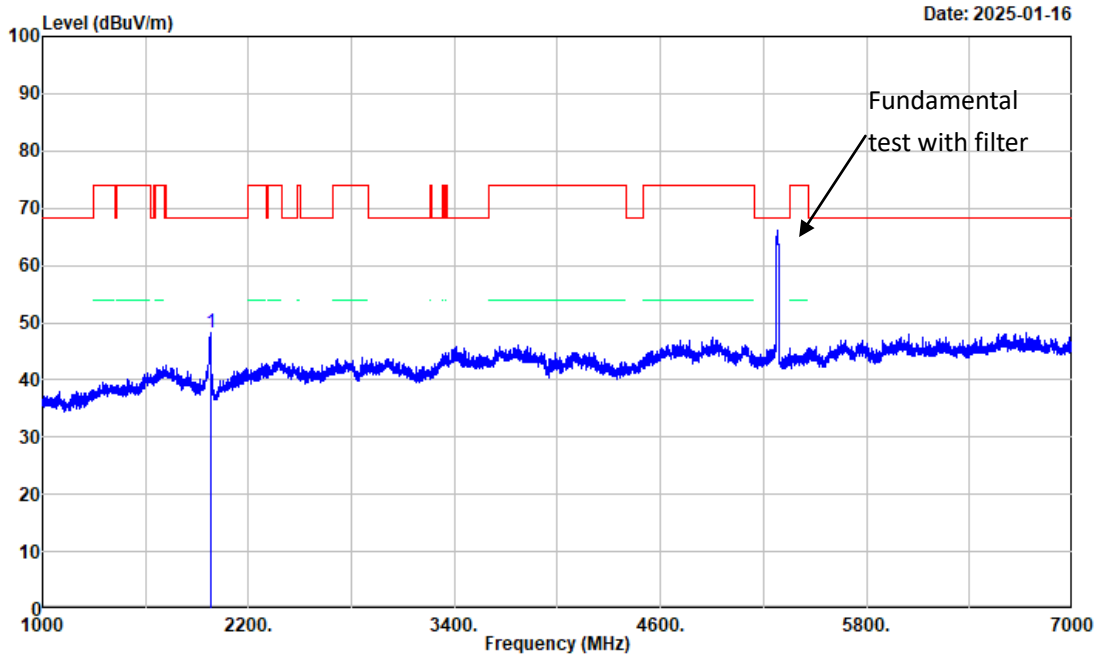


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5180

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	15540.000	48.24	5.12	53.36	74.00	-20.64	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:	802.11a	Channel:	5280MHz

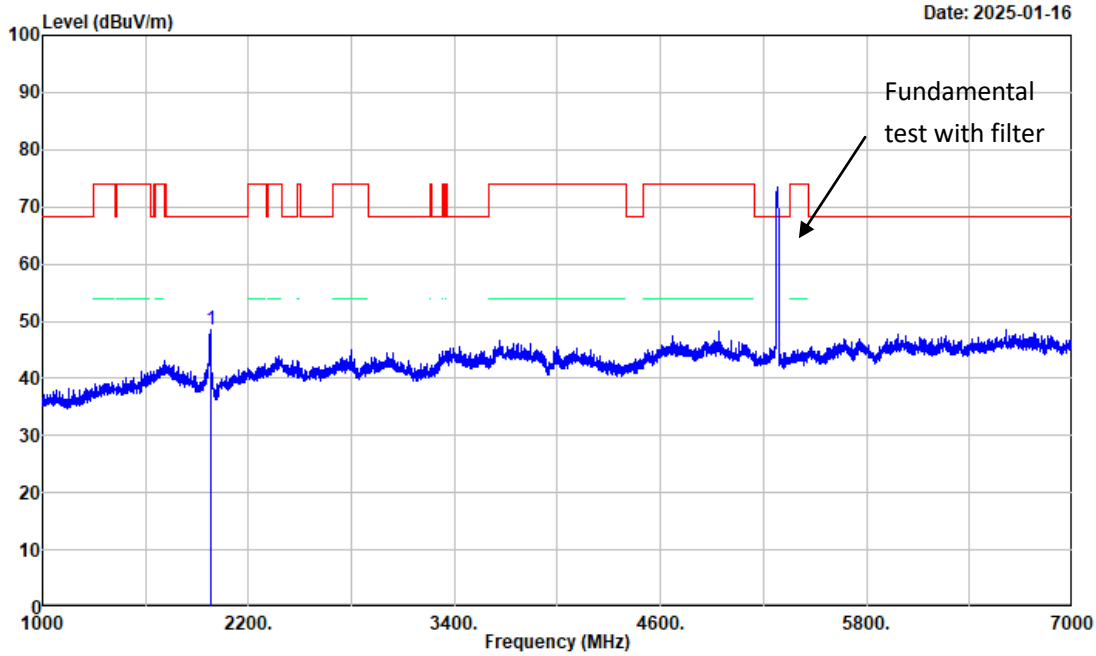


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5280

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1977.000	53.84	-5.56	48.28	68.20	-19.92	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:	802.11a	Channel:	5280MHz

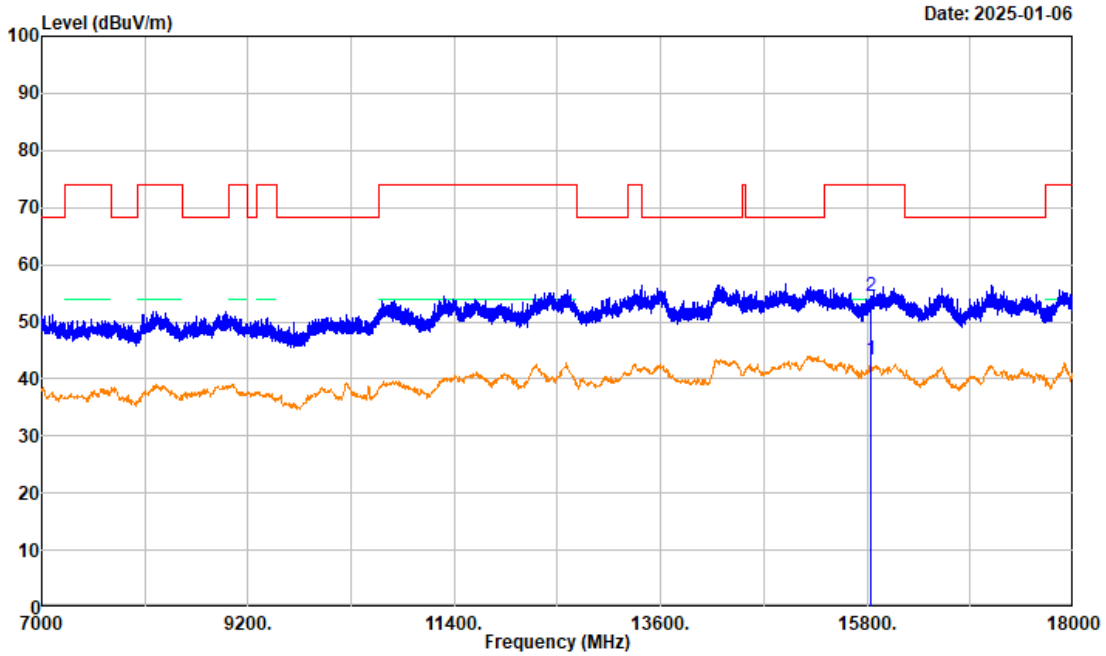


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5280

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1977.000	54.06	-5.56	48.50	68.20	-19.70	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:	802.11a	Channel:	5280MHz

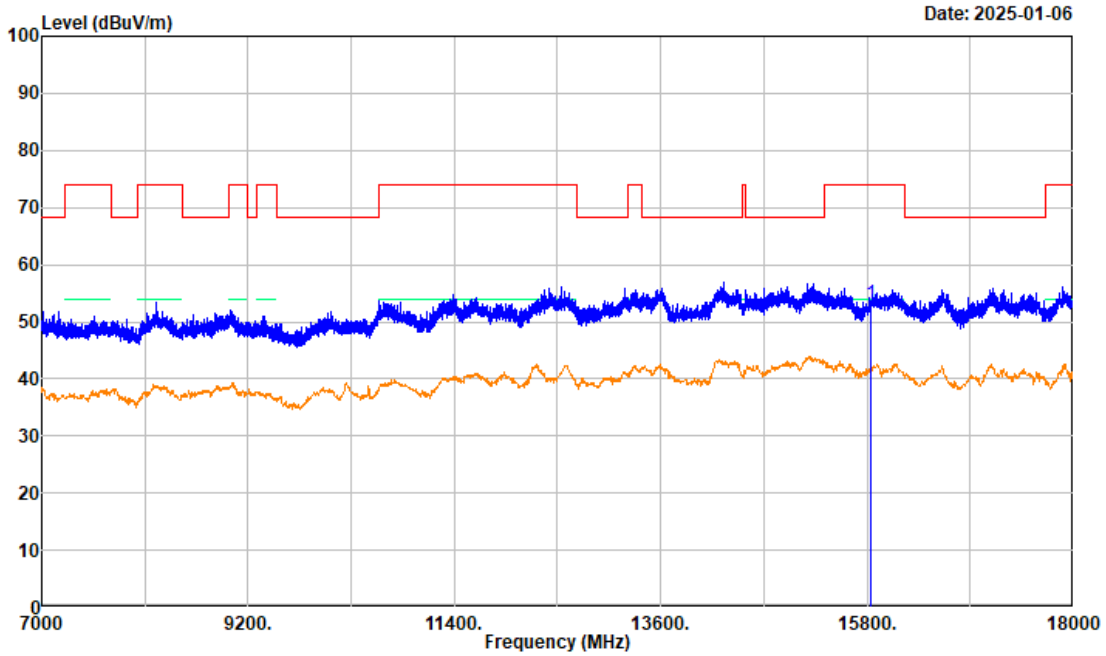


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5280

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15840.000	38.59	4.65	43.24	54.00	-10.76	Average
2	15840.000	49.86	4.65	54.51	74.00	-19.49	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:	802.11a	Channel:	5280MHz

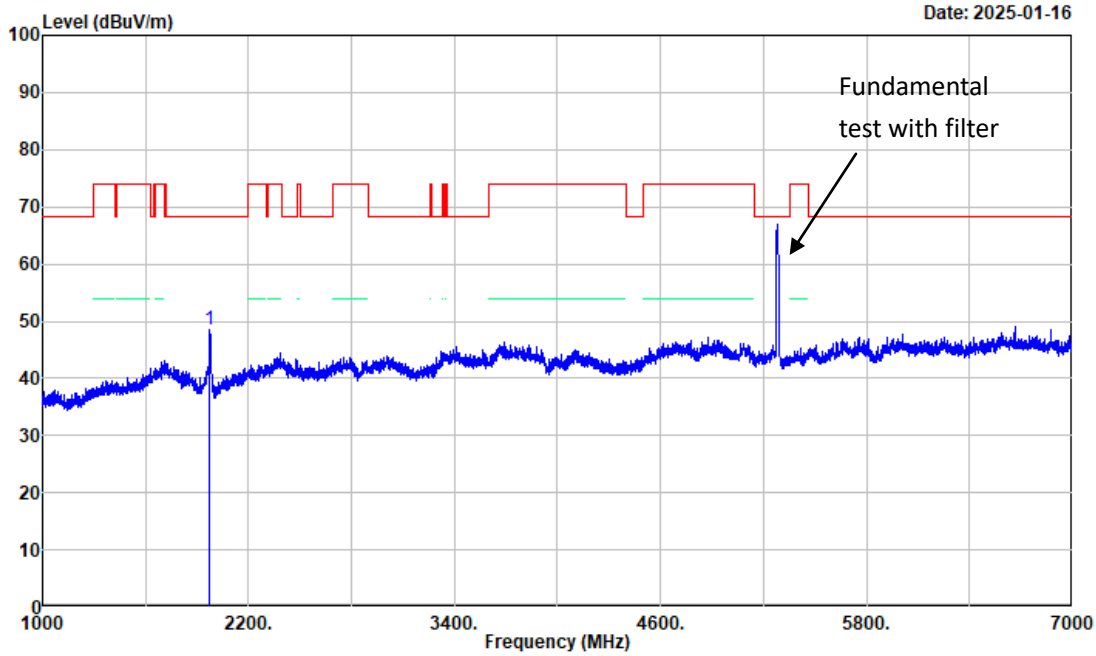


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5280

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15840.000	48.57	4.65	53.22	74.00	-20.78	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:	802.11n20	Channel:	5320MHz

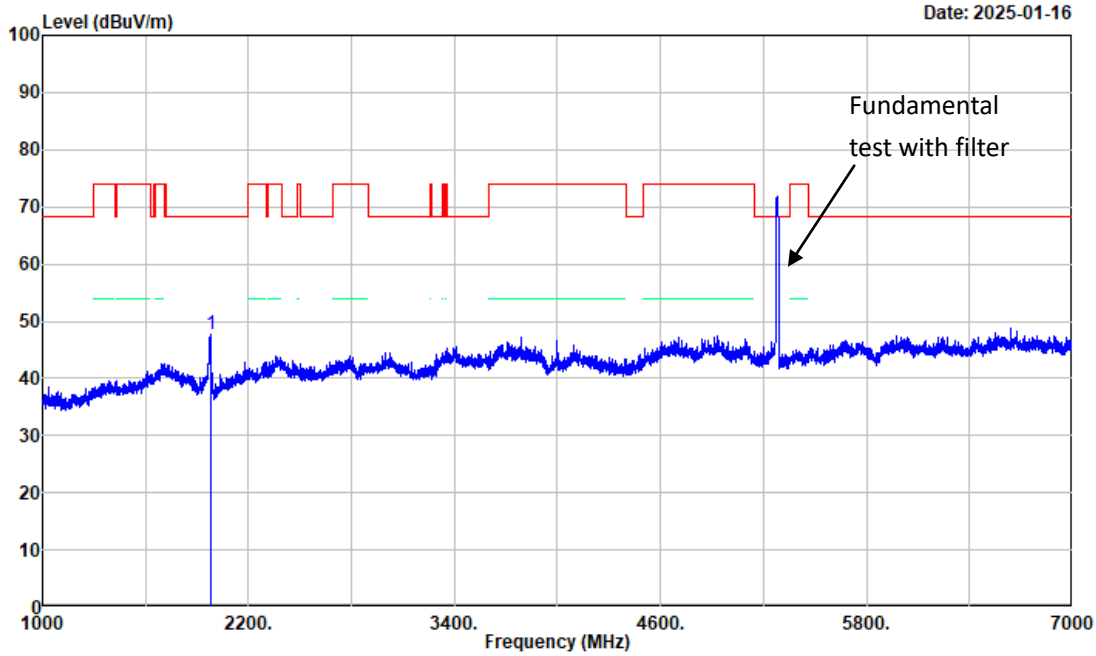


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5320

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1975.000	54.09	-5.53	48.56	68.20	-19.64	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:	802.11n20	Channel:	5320MHz

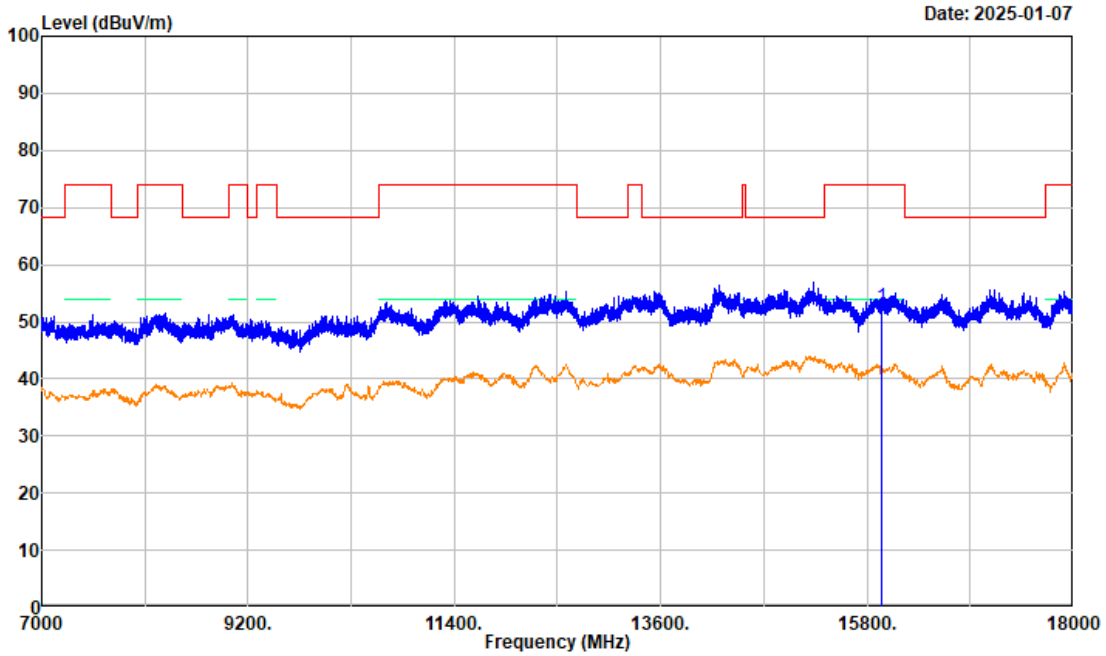


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5320

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1978.000	53.37	-5.58	47.79	68.20	-20.41	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:	802.11n20	Channel:	5320MHz

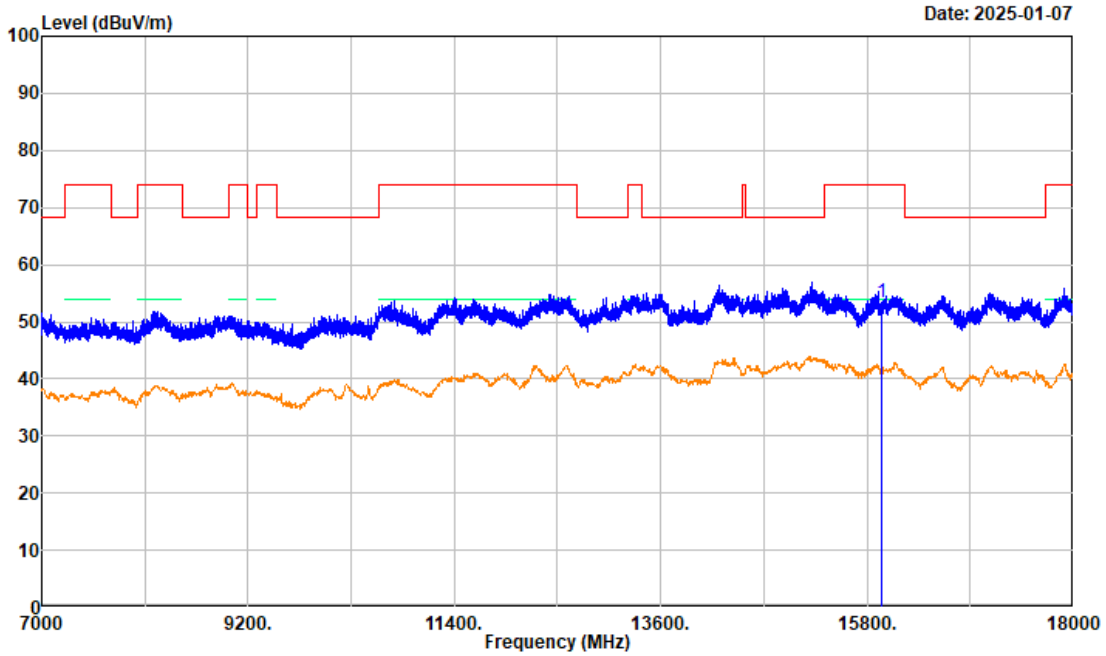


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5320

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	15960.000	47.45	5.18	52.63	74.00	-21.37	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:	802.11n20	Channel:	5320MHz

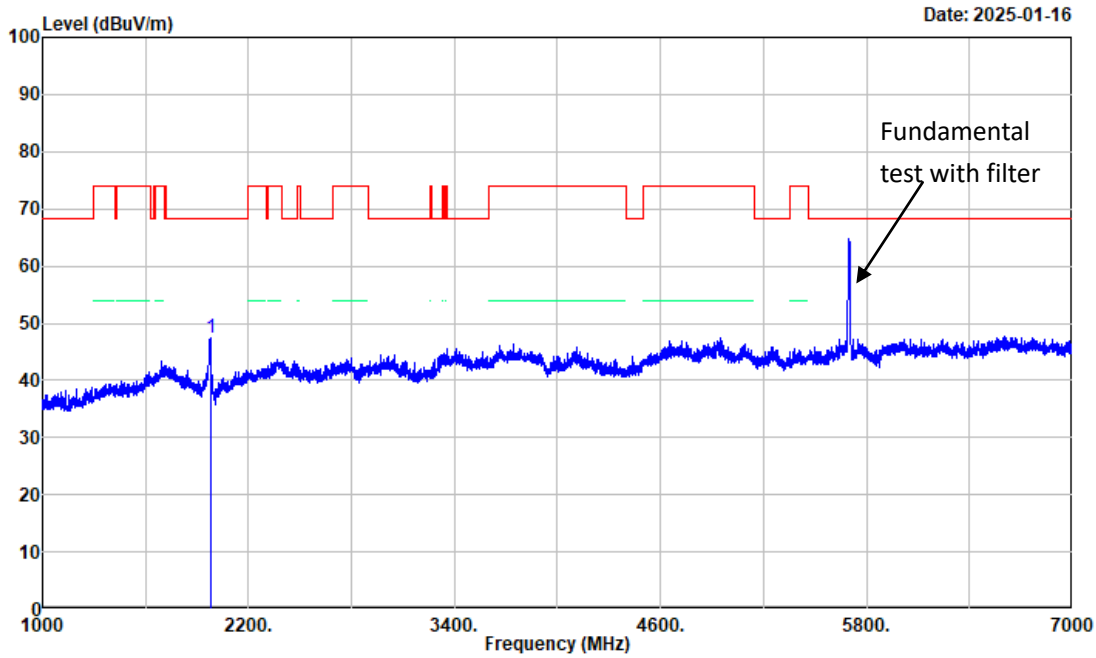


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5320

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	15960.000	48.19	5.18	53.37	74.00	-20.63	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:	802.11a	Channel:	5700MHz

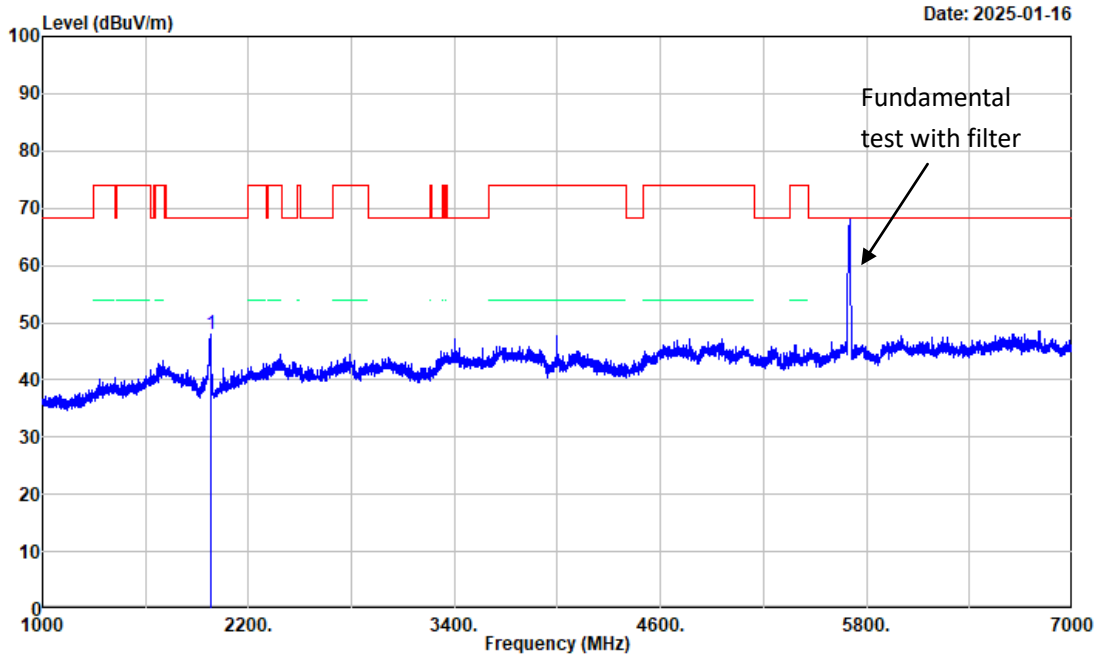


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1977.000	52.95	-5.56	47.39	68.20	-20.81	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:	802.11a	Channel:	5700MHz

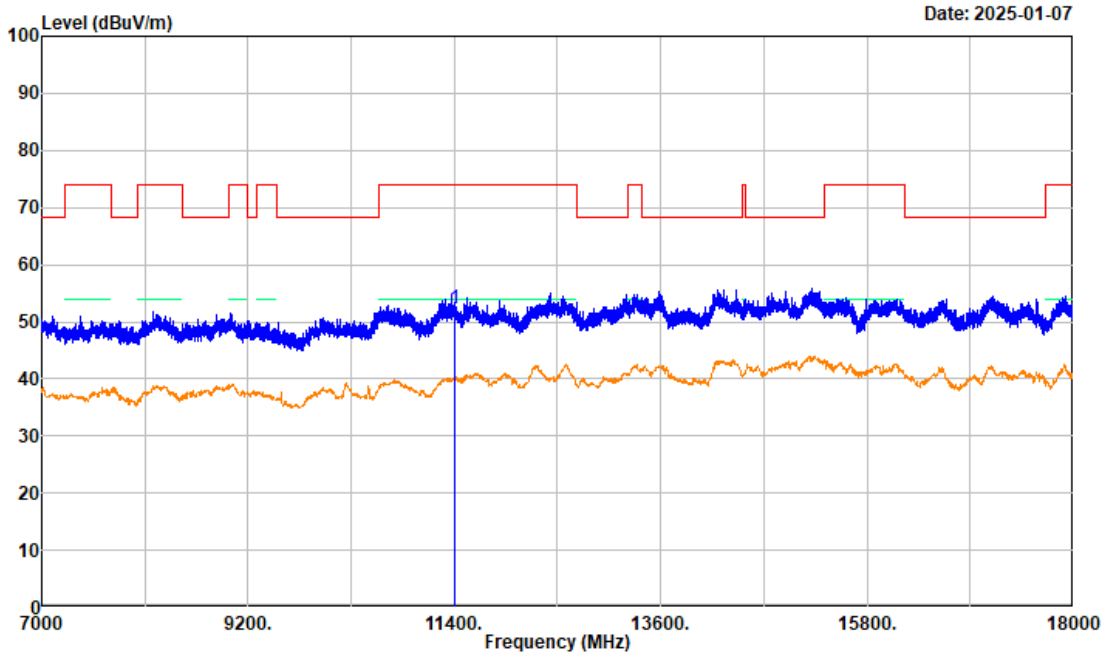


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5700

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1978.000	53.67	-5.58	48.09	68.20	-20.11	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:	802.11a	Channel:	5700MHz

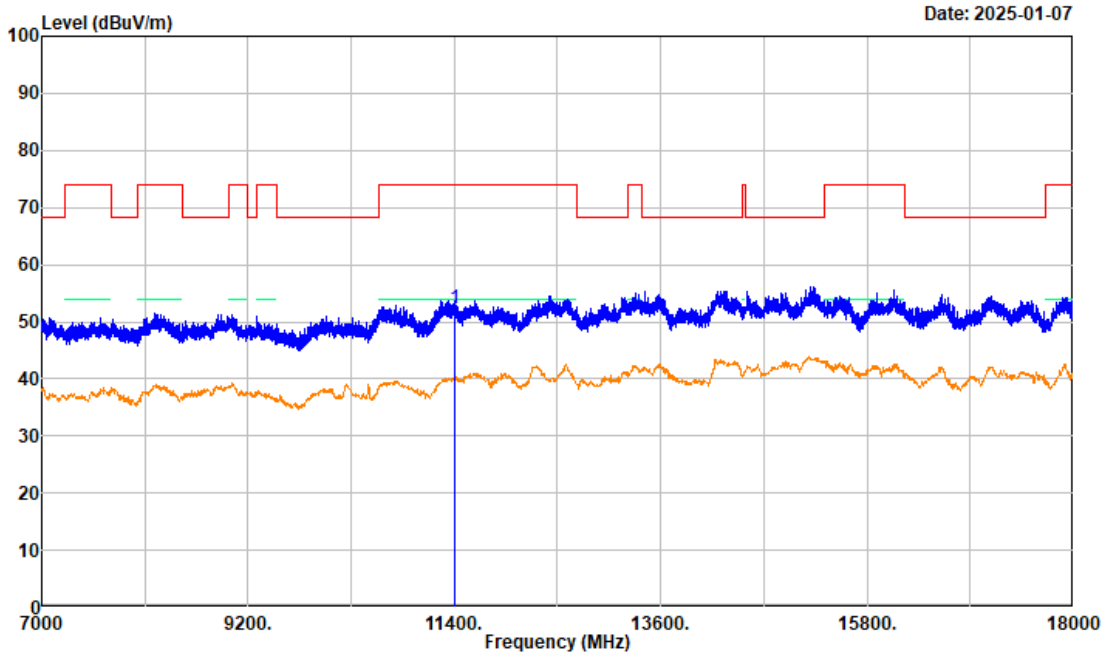


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	11400.000	47.90	4.40	52.30	74.00	-21.70	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:	802.11a	Channel:	5700MHz

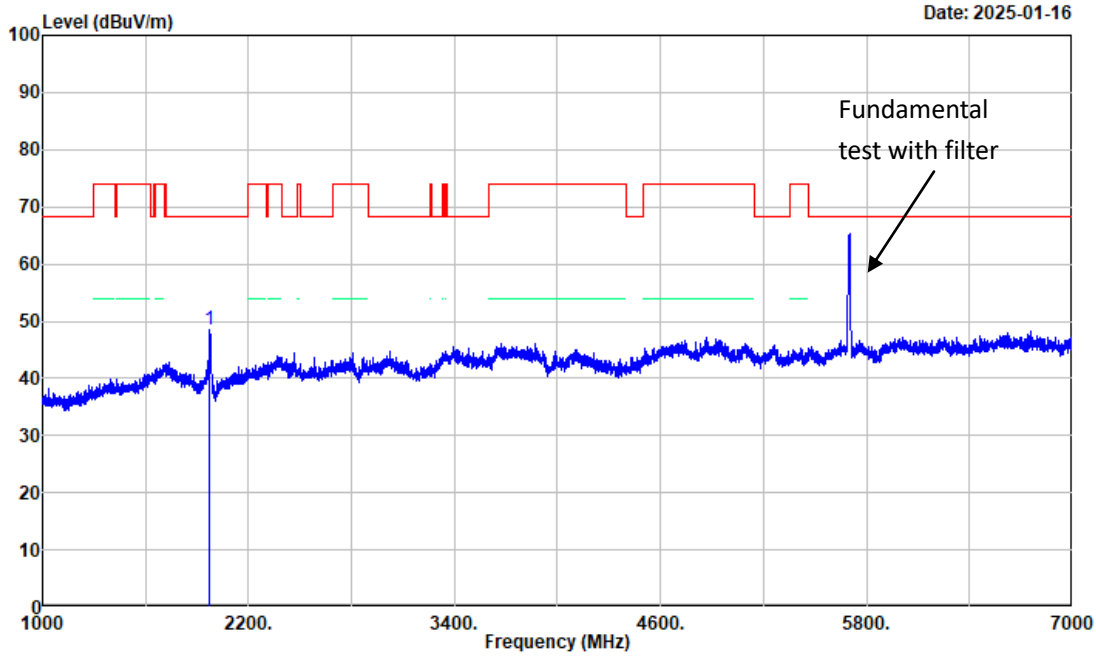


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	11400.000	47.92	4.40	52.32	74.00	-21.68	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:	802.11n20	Channel:	5700MHz

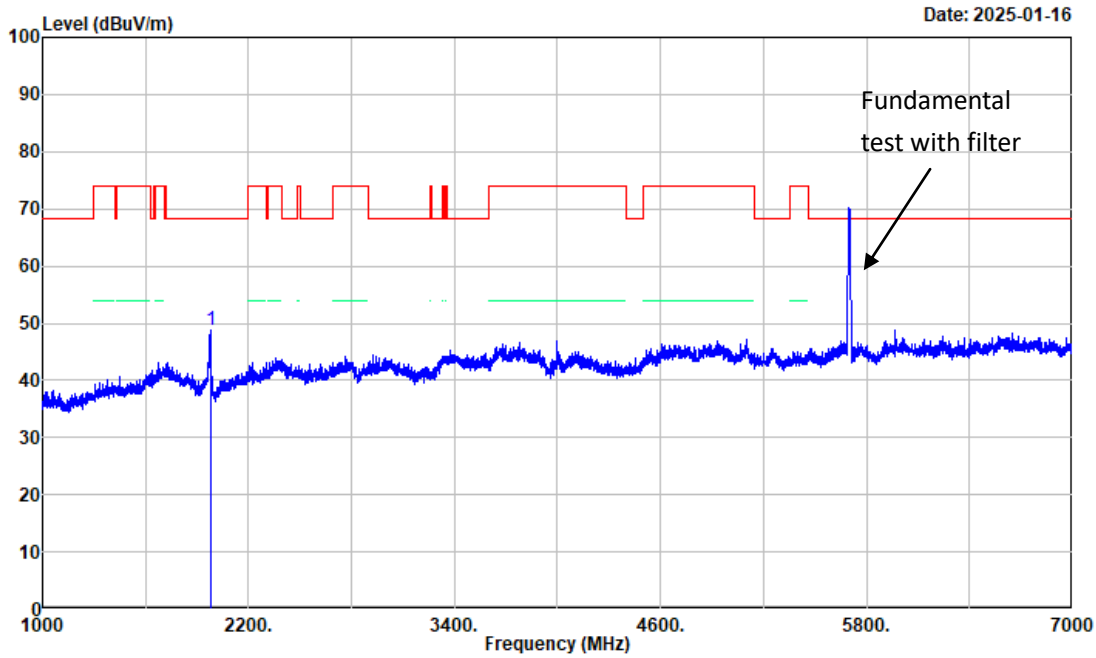


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5700

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1976.000	54.04	-5.54	48.50	68.20	-19.70	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:	802.11n20	Channel:	5700MHz

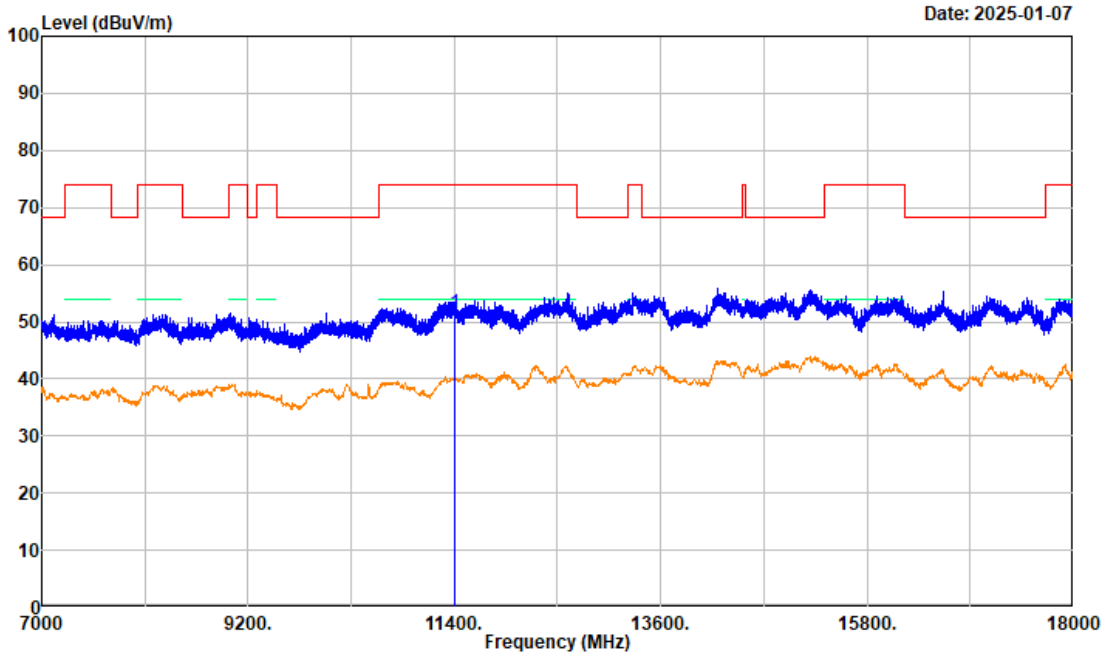


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5700

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1977.000	54.21	-5.56	48.65	68.20	-19.55	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:	802.11n20	Channel:	5700MHz

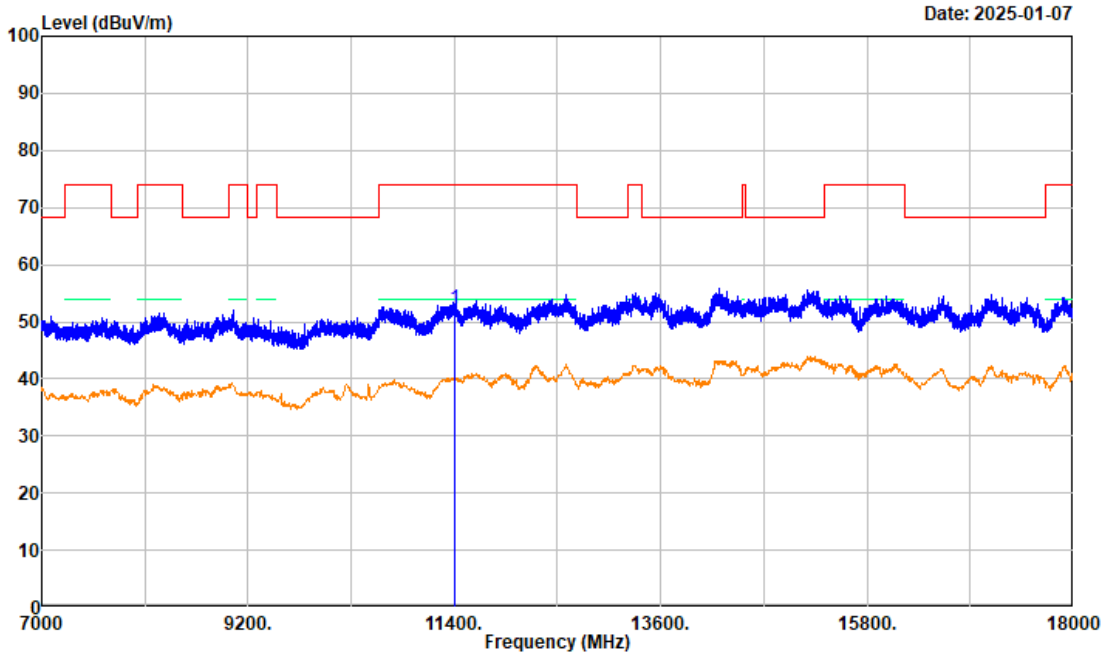


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	11400.000	47.11	4.40	51.51	74.00	-22.49	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:	802.11n20	Channel:	5700MHz

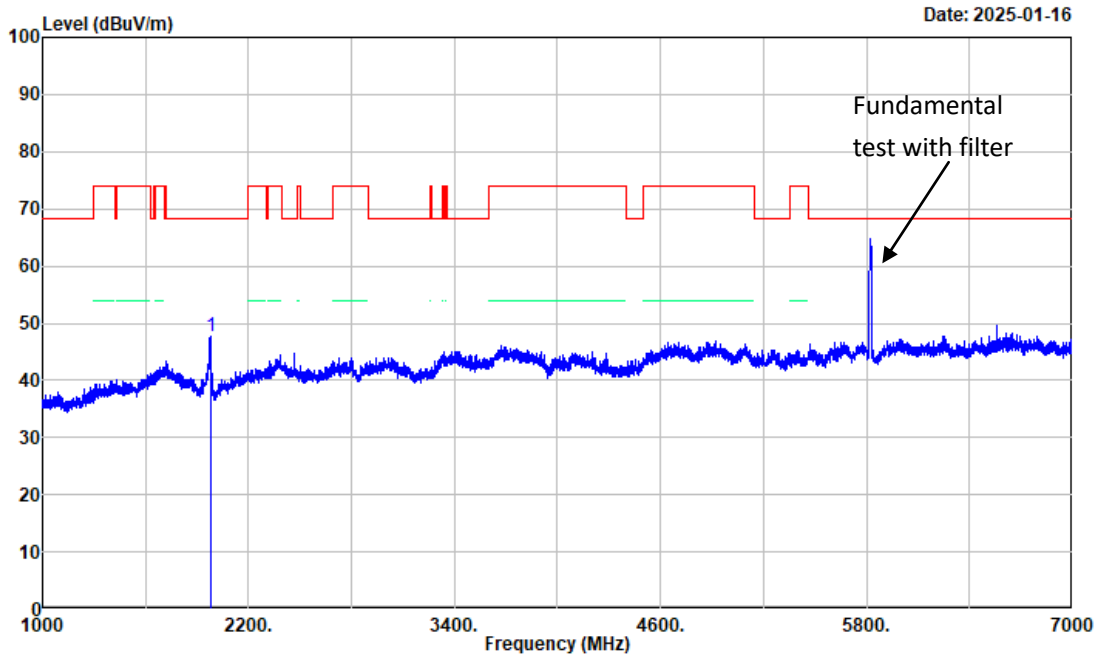


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	11400.000	47.93	4.40	52.33	74.00	-21.67	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:	802.11a	Channel:	5825MHz

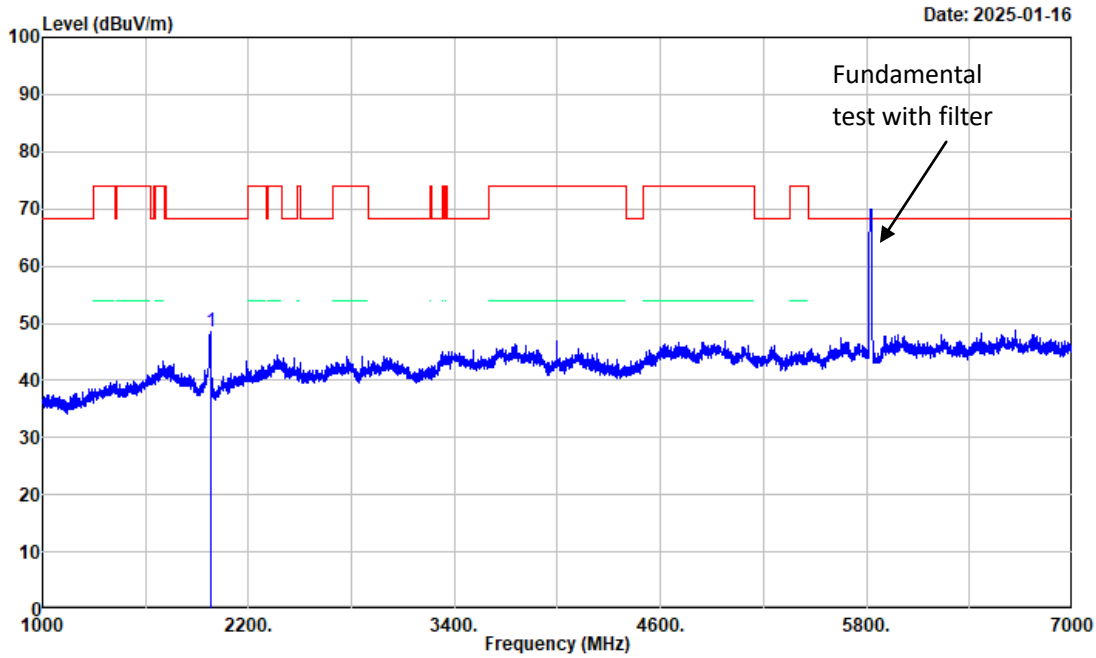


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5825

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1977.000	53.25	-5.56	47.69	68.20	-20.51	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:	802.11a	Channel:	5825MHz

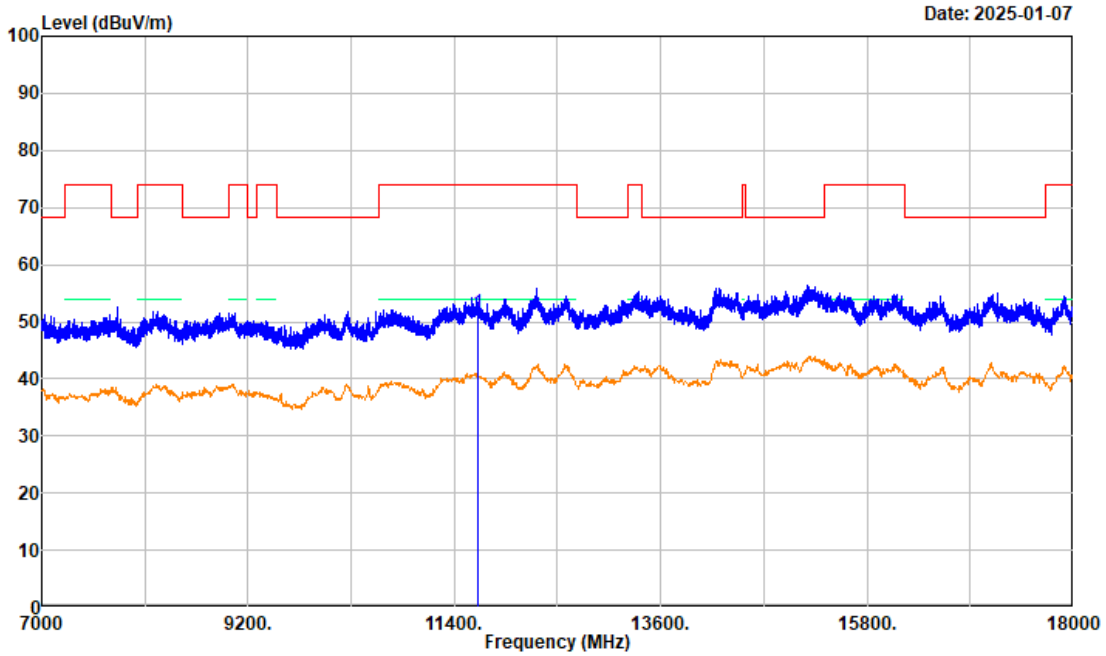


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5825

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	1977.000	53.99	-5.56	48.43	68.20	-19.77	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:	802.11a	Channel:	5825MHz

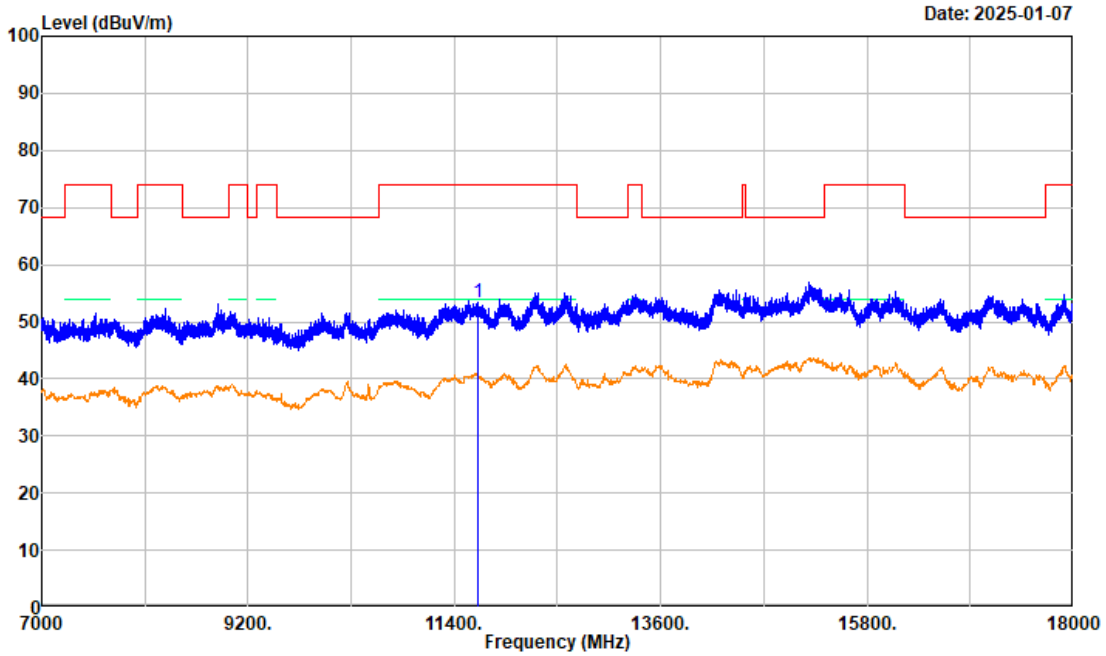


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5825

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	11650.000	47.76	3.64	51.40	74.00	-22.60	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:	802.11a	Channel:	5825MHz

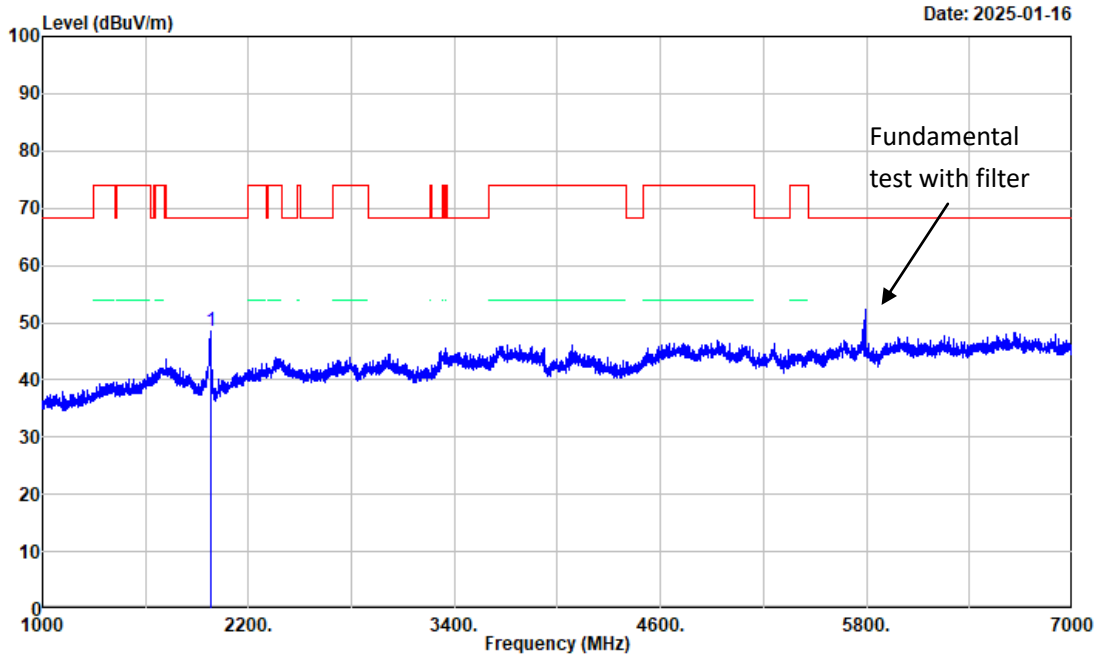


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5825

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	11650.000	49.85	3.64	53.49	74.00	-20.51	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:	802.11n20	Channel:	5785MHz

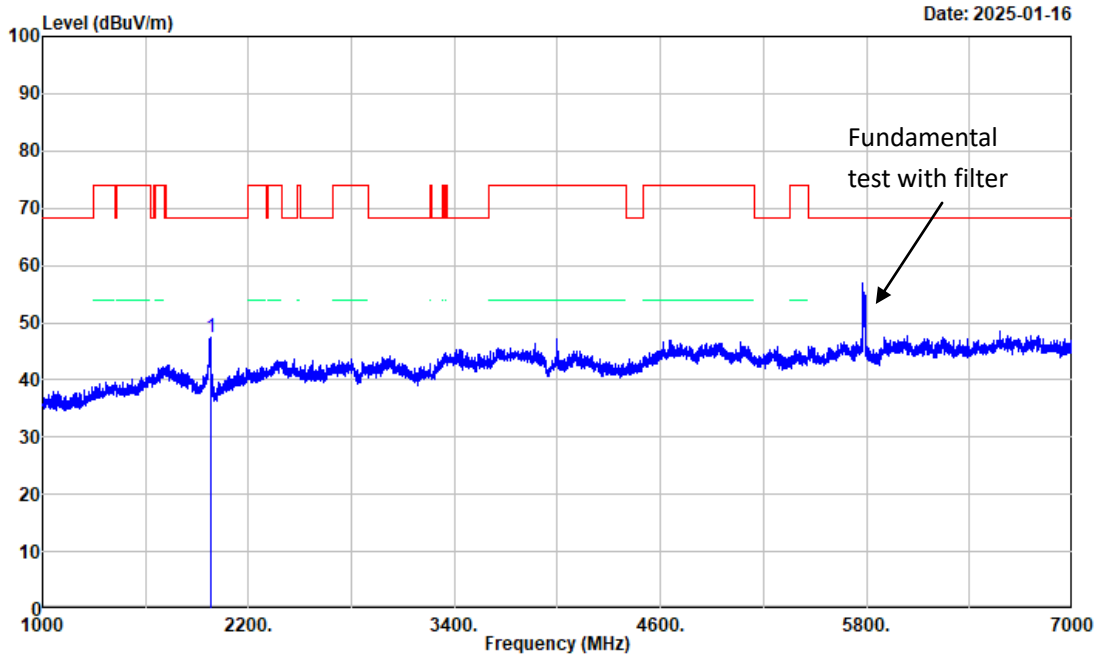


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5785

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1978.000	54.05	-5.58	48.47	68.20	-19.73	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:	802.11n20	Channel:	5785MHz

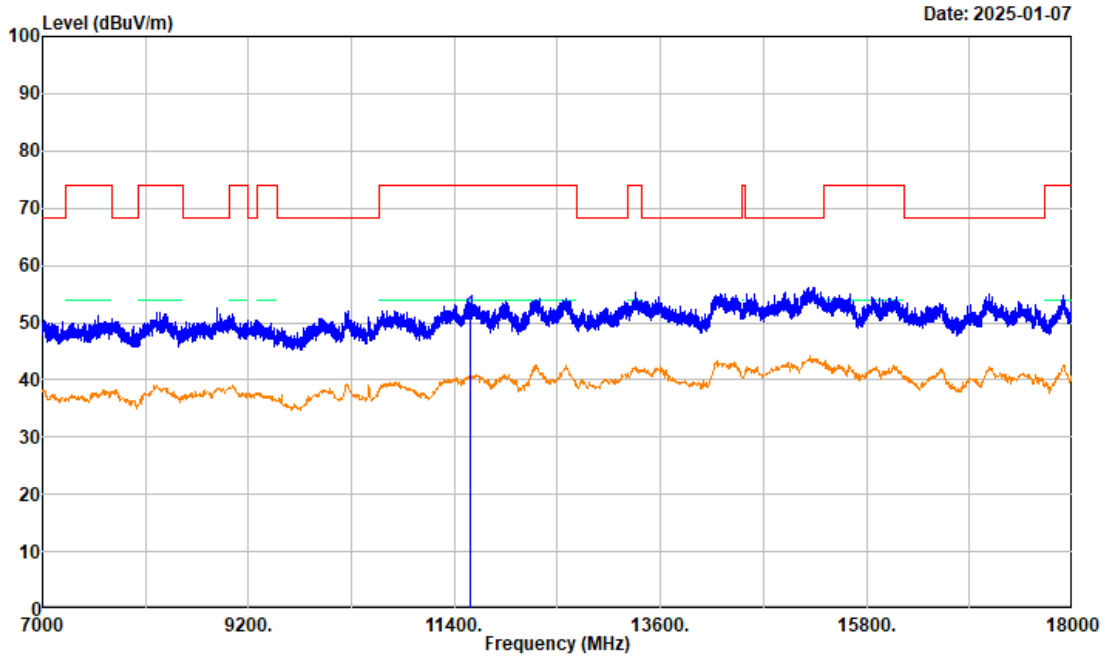


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 24.3℃/33%R.H./101.3kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5785

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	1978.000	52.96	-5.58	47.38	68.20	-20.82	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:	802.11n20	Channel:	5785MHz

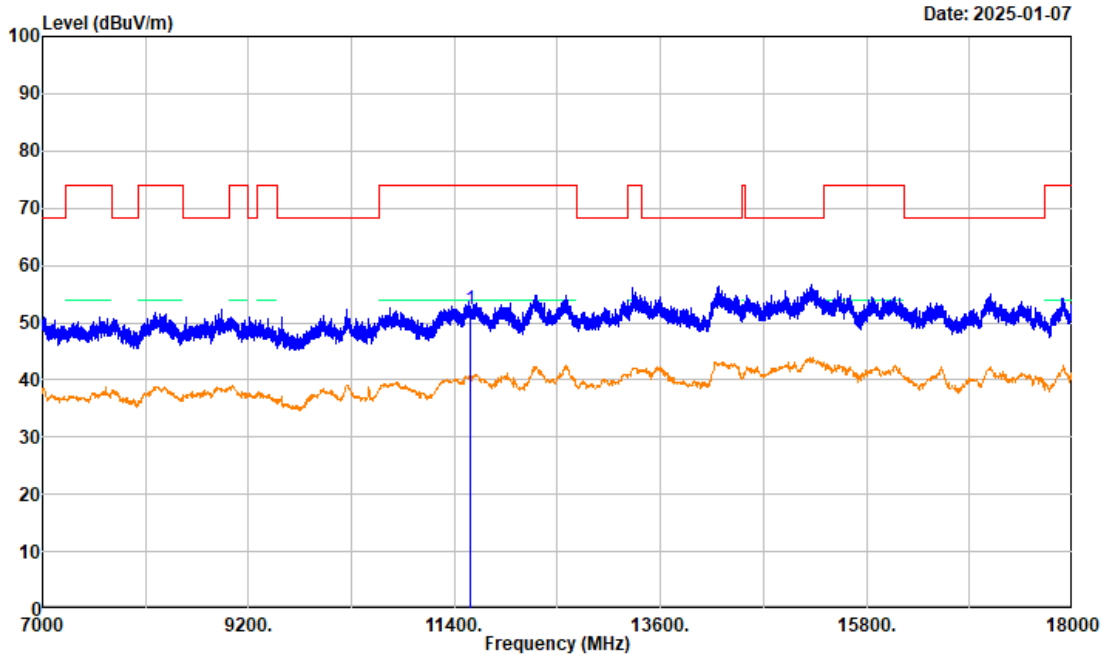


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5785

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	11570.000	47.45	3.96	51.41	74.00	-22.59	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:	802.11n20	Channel:	5785MHz

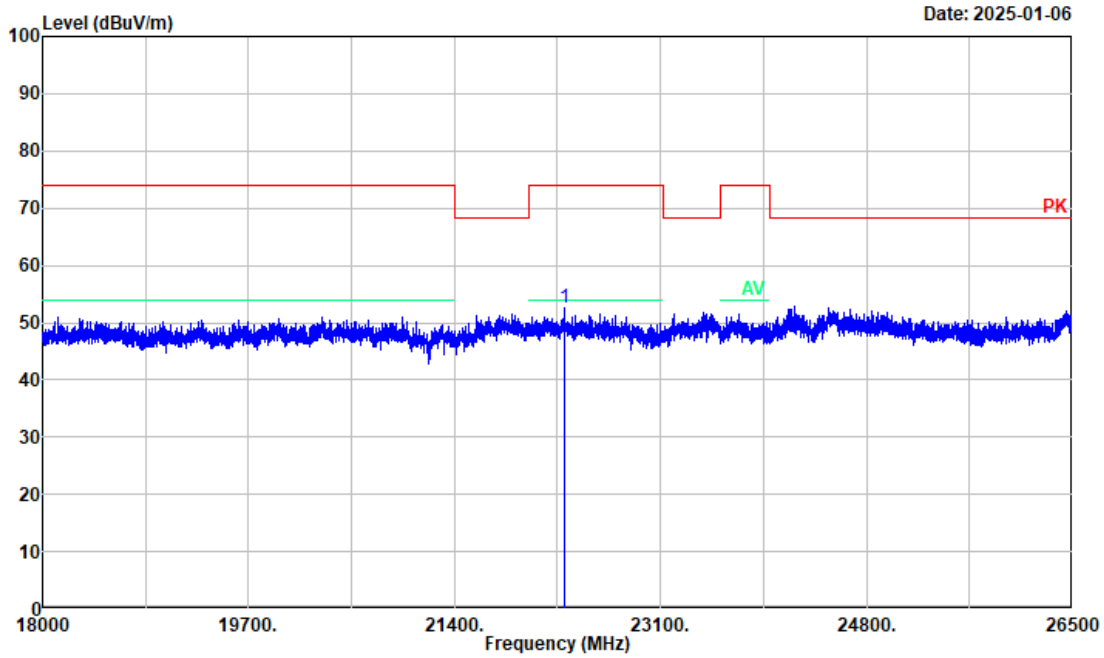


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5785

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	11570.000	48.23	3.96	52.19	74.00	-21.81	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:	802.11a	Channel:	5700MHz

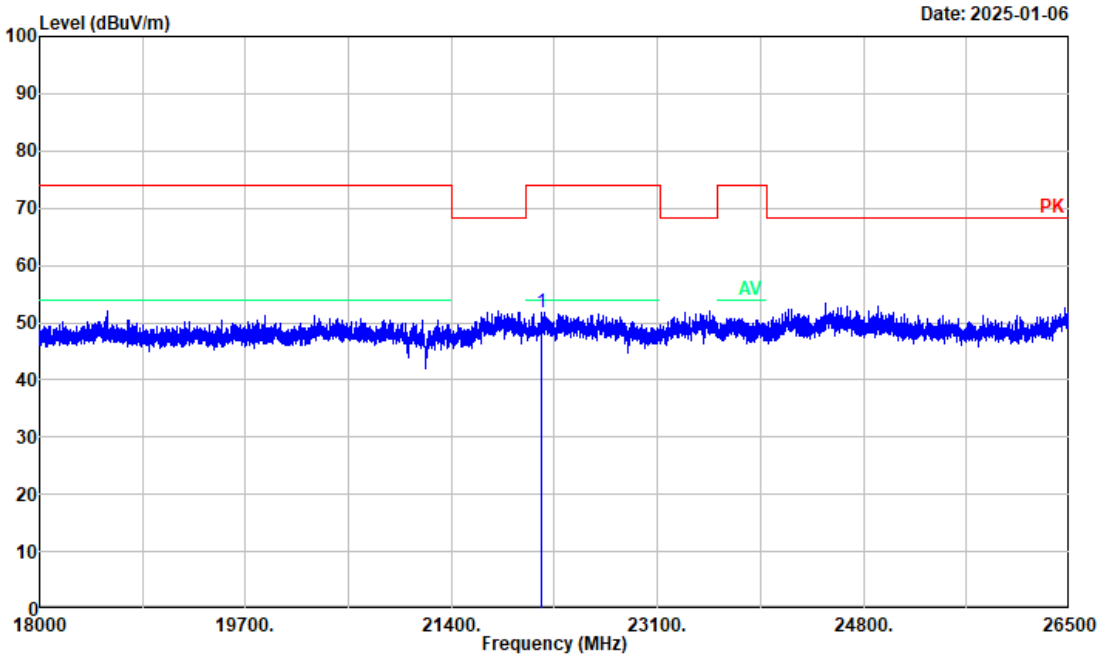


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : RTL 8731BU B3 802.11a-5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	22308.000	55.46	-2.88	52.58	74.00	-21.42	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain - Distance extrapolate factor
Distance extrapolate factor = 20*log(specified distance/measured distance)
Specified distance = 3 meters, measured distance = 1.5 meters
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	802.11a	Channel:	5700MHz

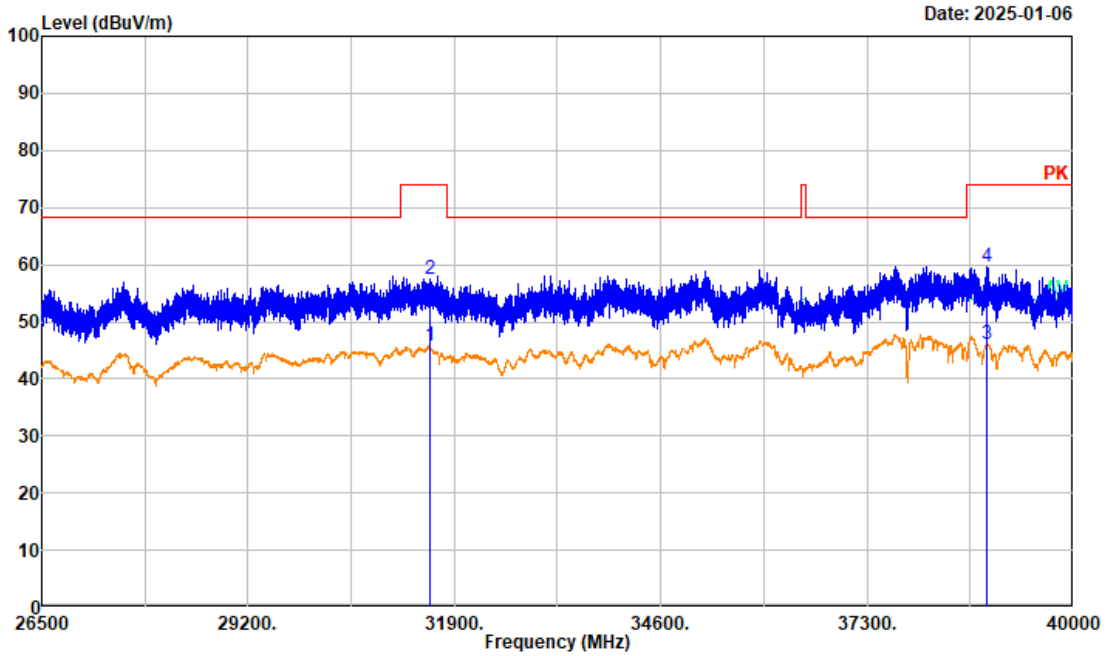


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Bard Huang
Polarization : vertical
Remark : RTL 8731BU B3 802.11a-5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	22138.000	54.78	-2.91	51.87	74.00	-22.13	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain - Distance extrapolate factor
Distance extrapolate factor = 20*log(specified distance/measured distance)
Specified distance = 3 meters, measured distance = 1.5 meters
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	802.11a	Channel:	5700MHz

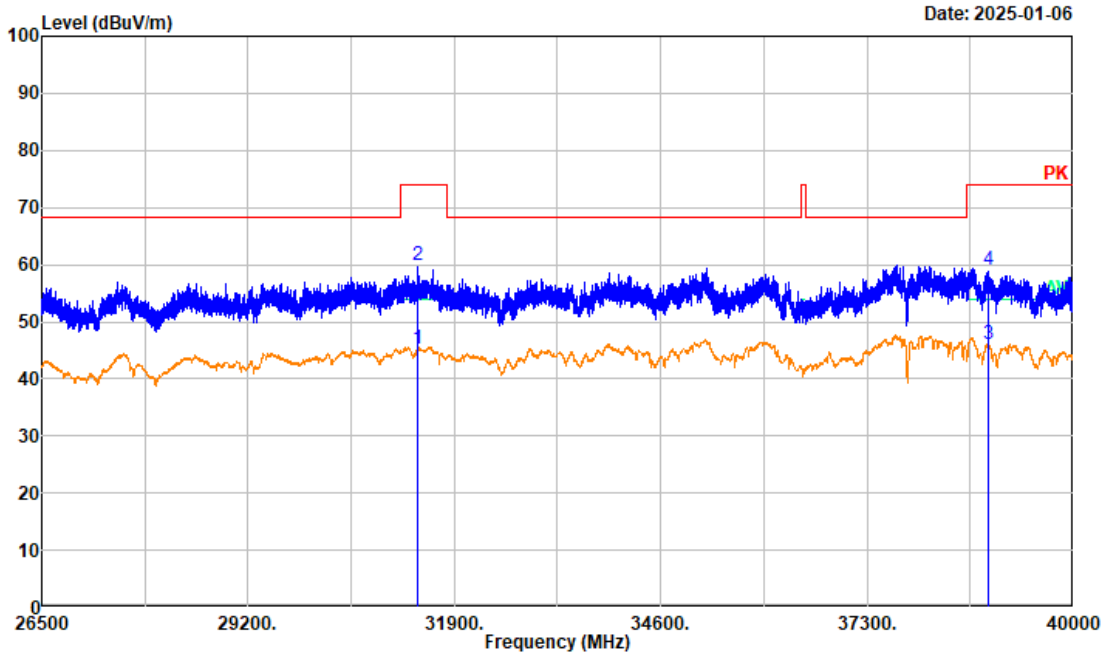


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Bard Huang
Polarization : horizontal
Remark : RTL 8731BU B3 802.11a-5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	31576.000	37.06	8.78	45.84	54.00	-8.16	Average
2	31576.000	48.61	8.78	57.39	74.00	-16.61	Peak
3	38864.000	34.43	11.61	46.04	54.00	-7.96	Average
4	38864.000	48.13	11.61	59.74	74.00	-14.26	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain - Distance extrapolate factor
Distance extrapolate factor = 20*log(specified distance/measured distance)
Specified distance = 3 meters, measured distance = 1.5 meters
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Mode:	802.11a	Channel:	5700MHz



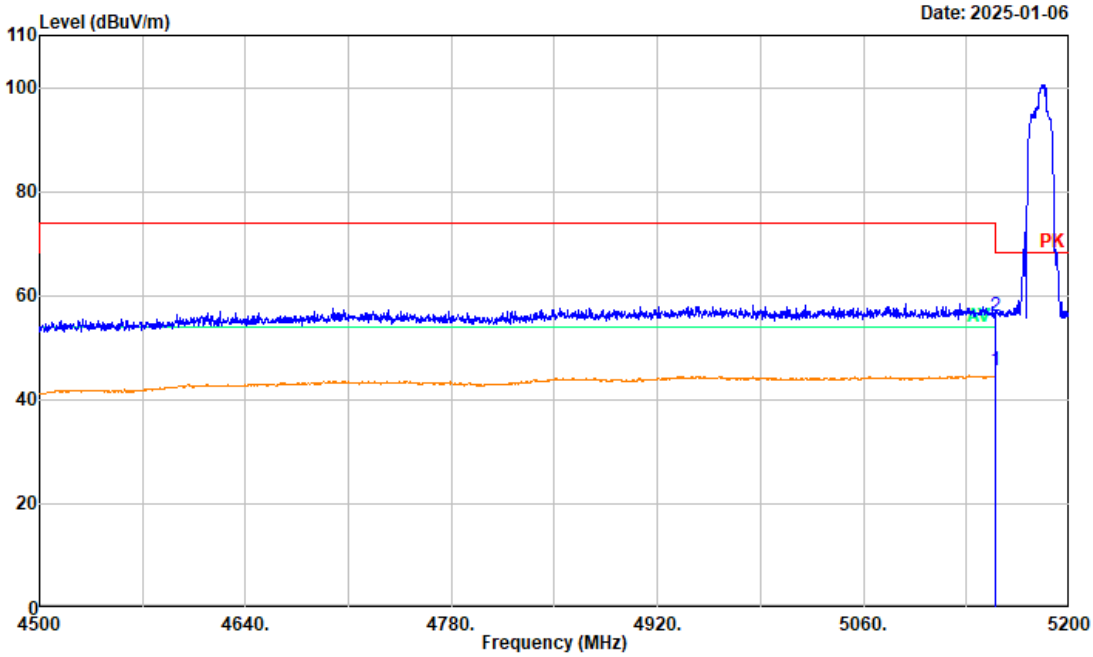
Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Bard Huang
Polarization : vertical
Remark : RTL 8731BU B3 802.11a-5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	31428.000	36.32	8.84	45.16	54.00	-8.84	Average
2	31428.000	50.95	8.84	59.79	74.00	-14.21	Peak
3	38886.000	34.61	11.59	46.20	54.00	-7.80	Average
4	38886.000	47.57	11.59	59.16	74.00	-14.84	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain - Distance extrapolate factor
Distance extrapolate factor = 20*log(specified distance/measured distance)
Specified distance = 3 meters, measured distance = 1.5 meters
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VBW: 1MHz/3MHz, DET: PK
Average: RBW/VBW: 1MHz/1kHz, DET: PK

Radiated Band edge:

Mode:	802.11a	Channel:	5180MHz

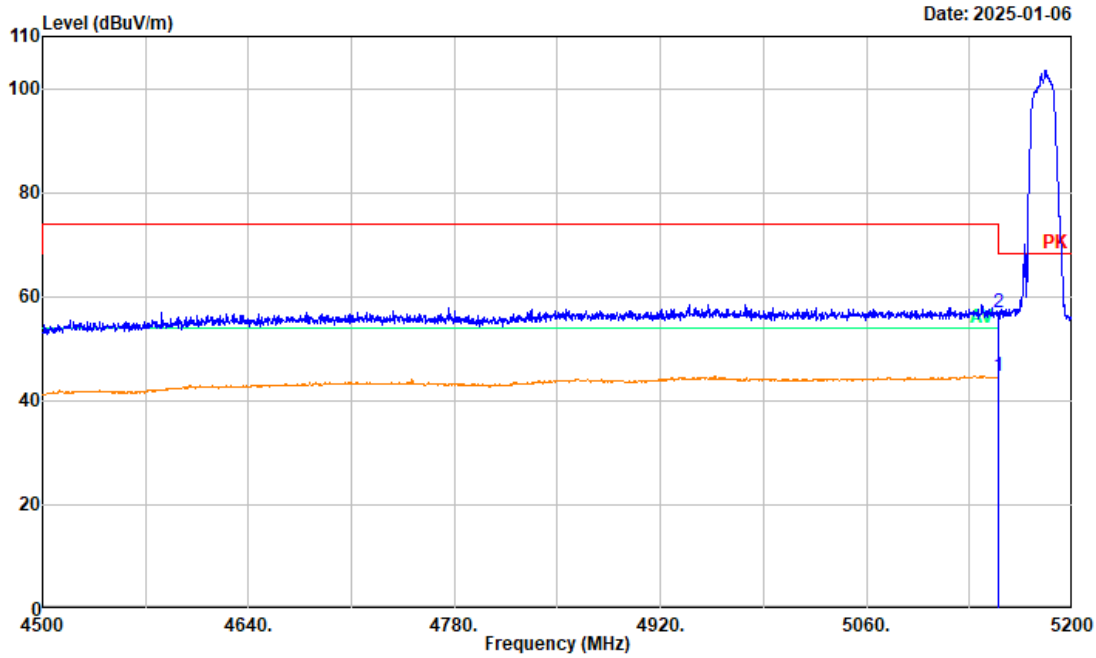


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5180

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5149.925	37.50	8.01	45.51	54.00	-8.49	Average
2	5149.925	48.05	8.01	56.06	74.00	-17.94	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:	802.11a	Channel:	5180MHz

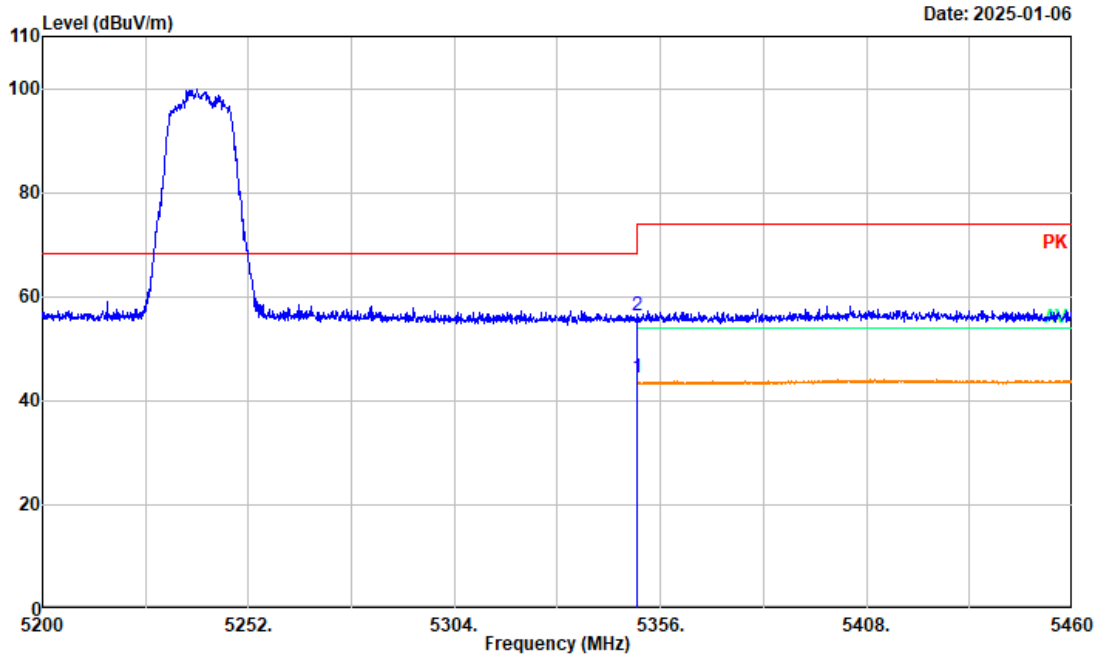


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5180

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5149.925	36.82	8.01	44.83	54.00	-9.17	Average
2	5149.925	49.03	8.01	57.04	74.00	-16.96	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:	802.11a	Channel:	5240MHz

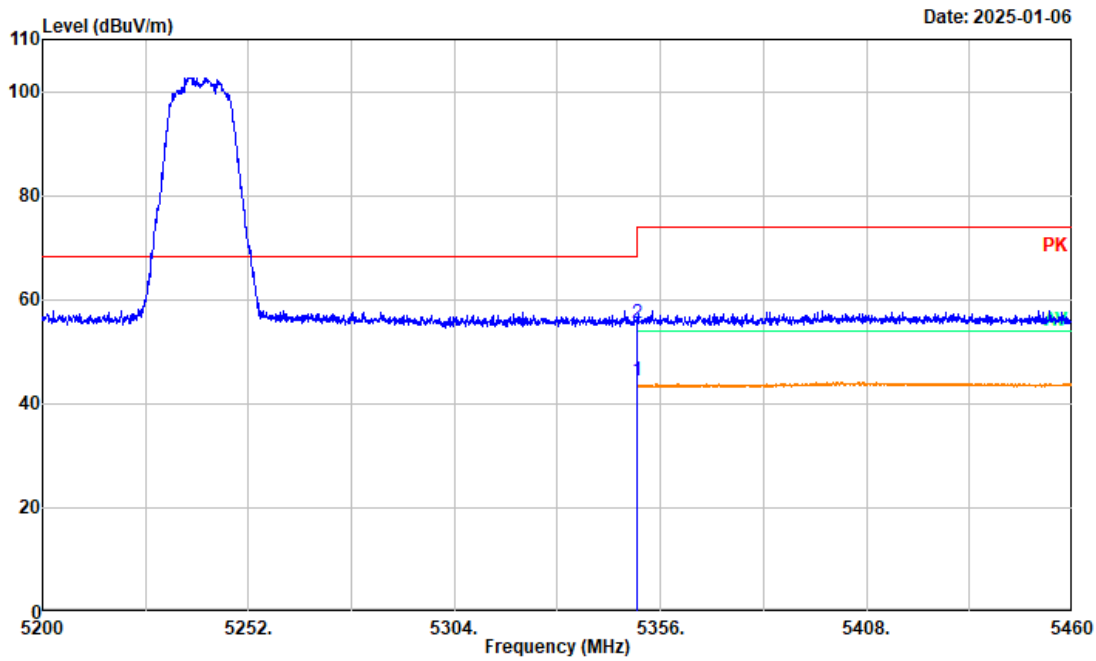


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5240

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5350.000	36.93	7.63	44.56	54.00	-9.44	Average
2	5350.000	48.74	7.63	56.37	74.00	-17.63	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:	802.11a	Channel:	5240MHz

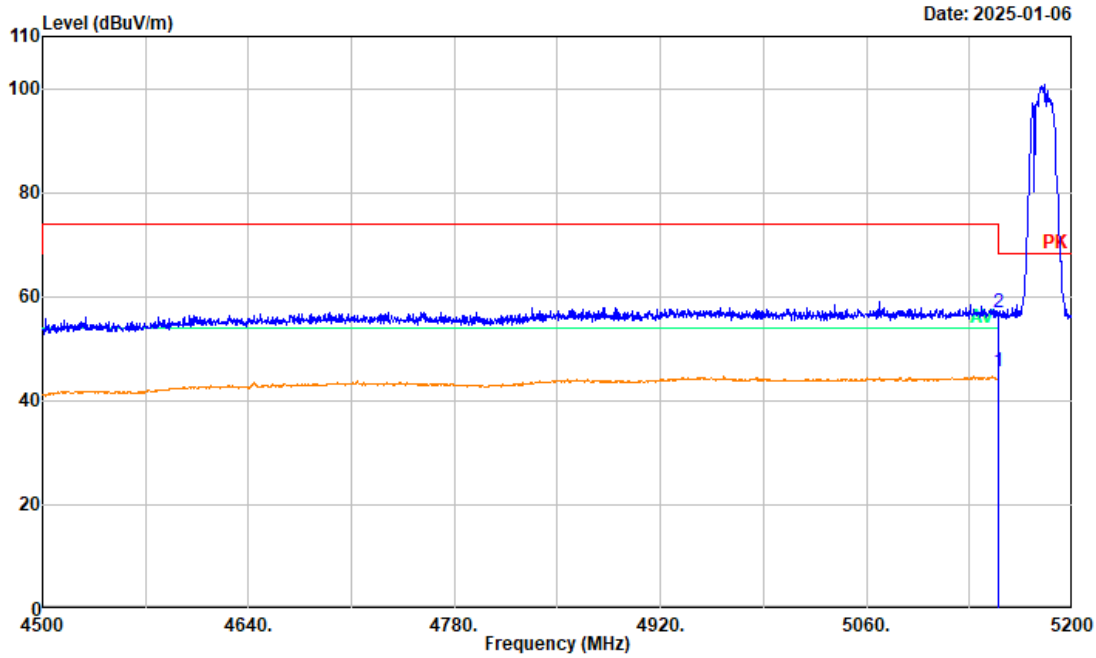


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5240

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5350.000	36.72	7.63	44.35	54.00	-9.65	Average
2	5350.000	47.86	7.63	55.49	74.00	-18.51	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:	802.11n20	Channel:	5180MHz

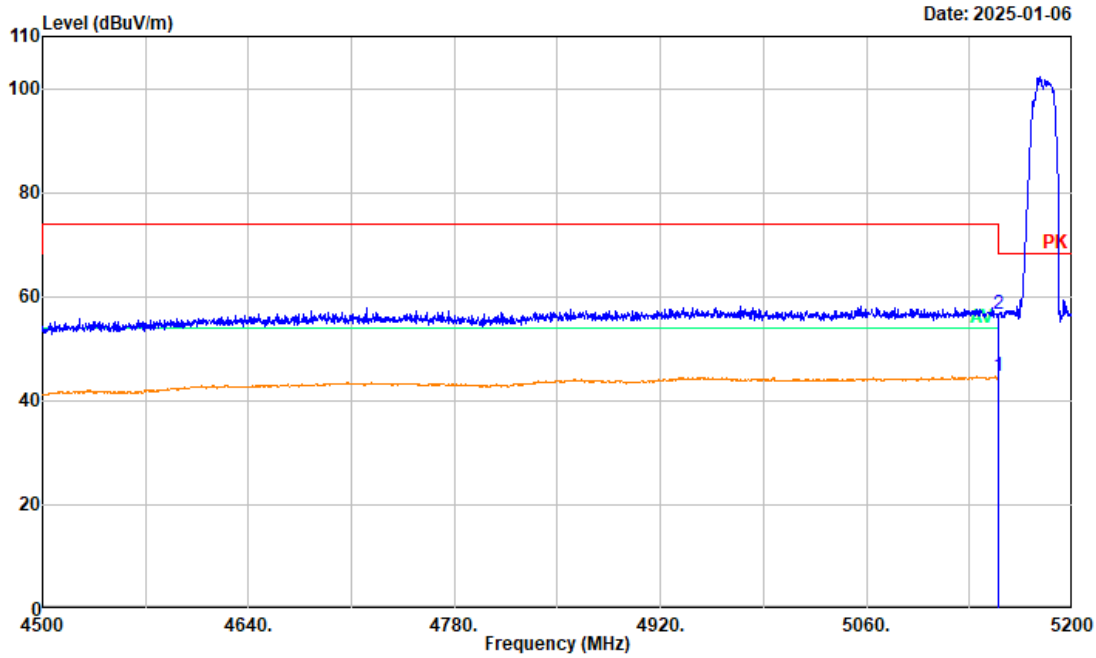


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5180

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5149.925	37.45	8.01	45.46	54.00	-8.54	Average
2	5149.925	48.86	8.01	56.87	74.00	-17.13	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:	802.11n20	Channel:	5180MHz

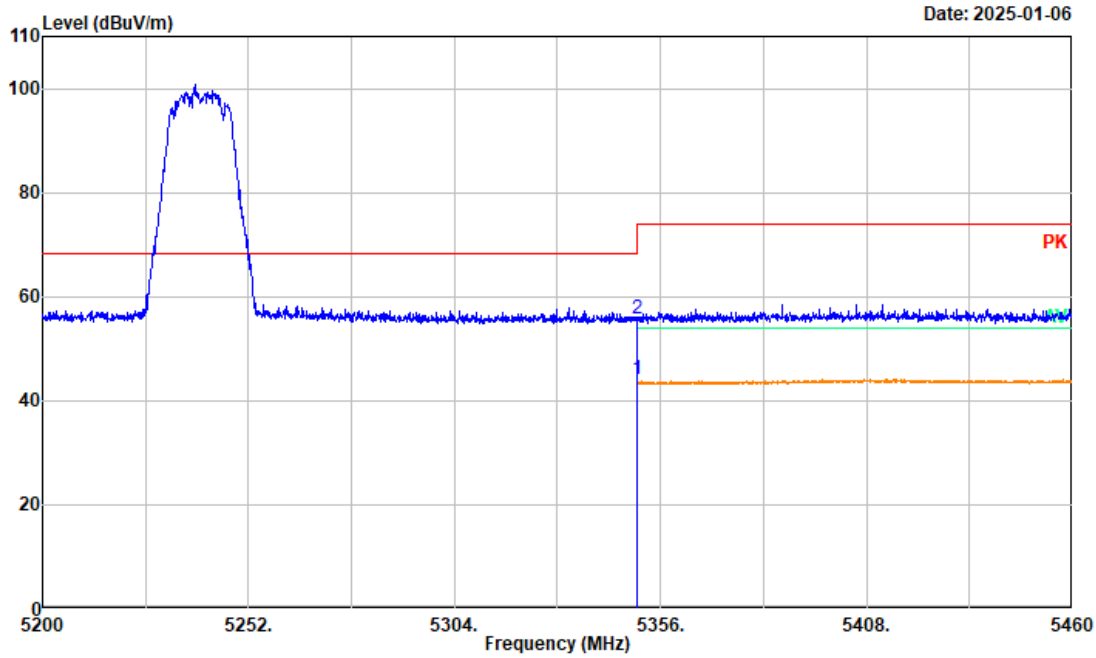


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5180

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5149.925	36.75	8.01	44.76	54.00	-9.24	Average
2	5149.925	48.65	8.01	56.66	74.00	-17.34	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:	802.11n20	Channel:	5240MHz

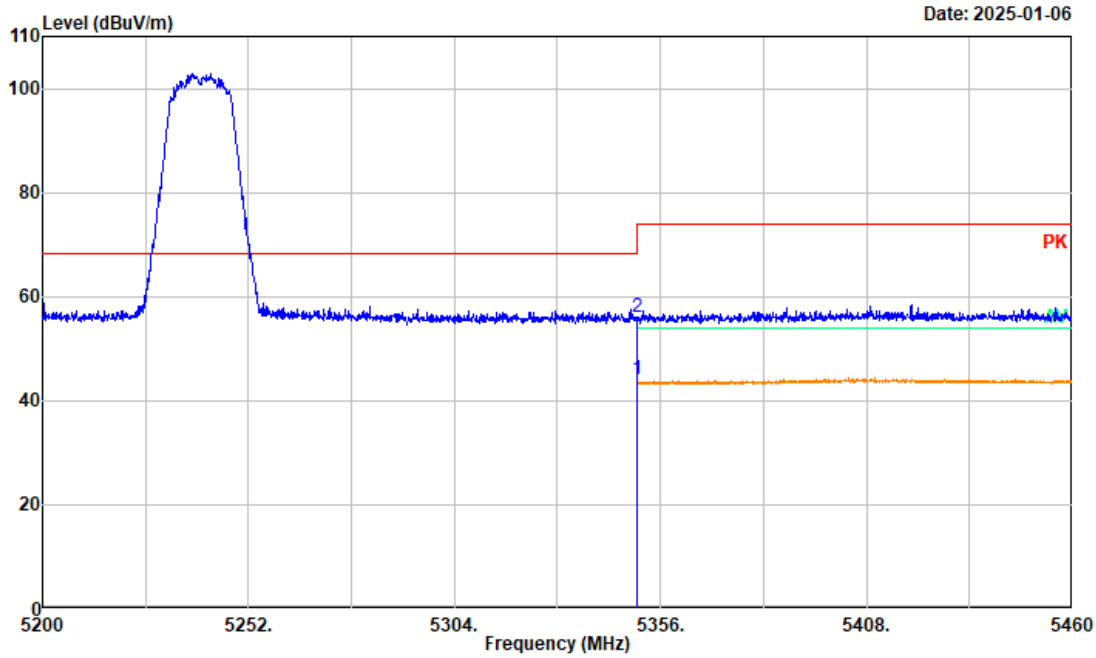


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5240

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5350.000	36.47	7.63	44.10	54.00	-9.90	Average
2	5350.000	48.04	7.63	55.67	74.00	-18.33	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:	802.11n20	Channel:	5240MHz

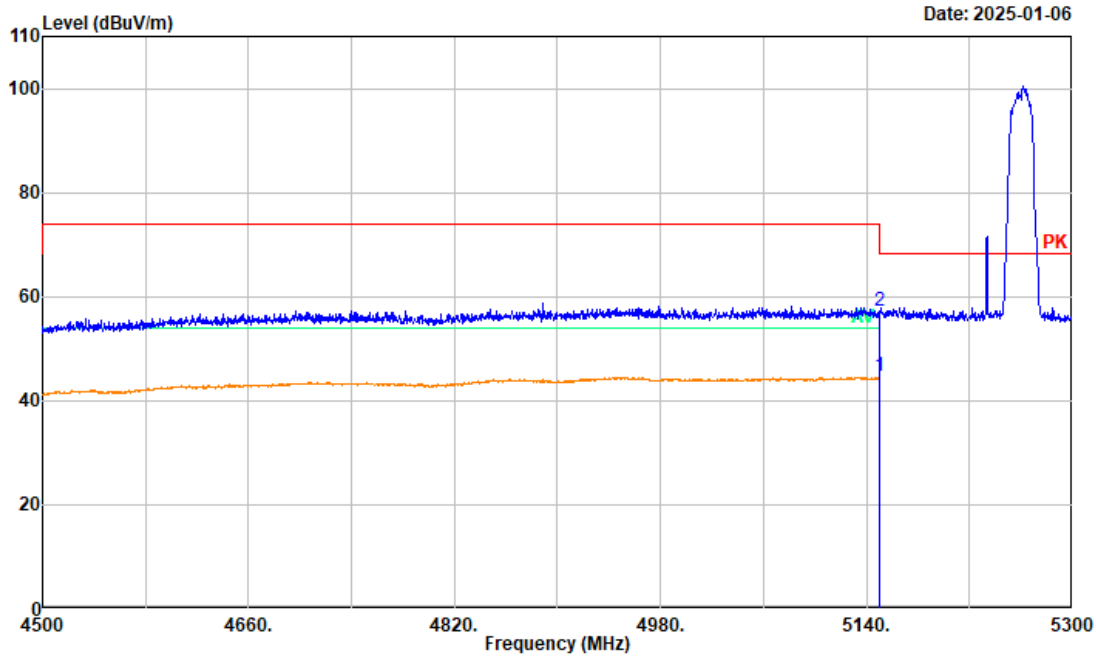


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5240

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5350.000	36.36	7.63	43.99	54.00	-10.01	Average
2	5350.000	48.43	7.63	56.06	74.00	-17.94	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:	802.11a	Channel:	5260MHz

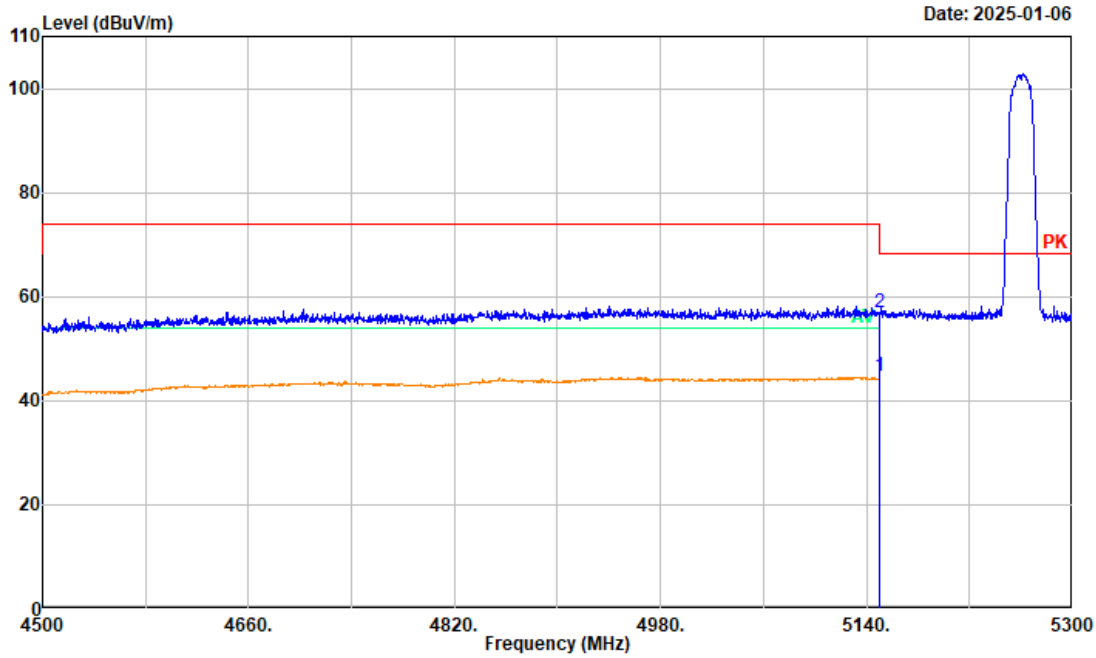


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5260

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5150.000	36.73	8.01	44.74	54.00	-9.26	Average
2	5150.000	49.17	8.01	57.18	74.00	-16.82	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:	802.11a	Channel:	5260MHz

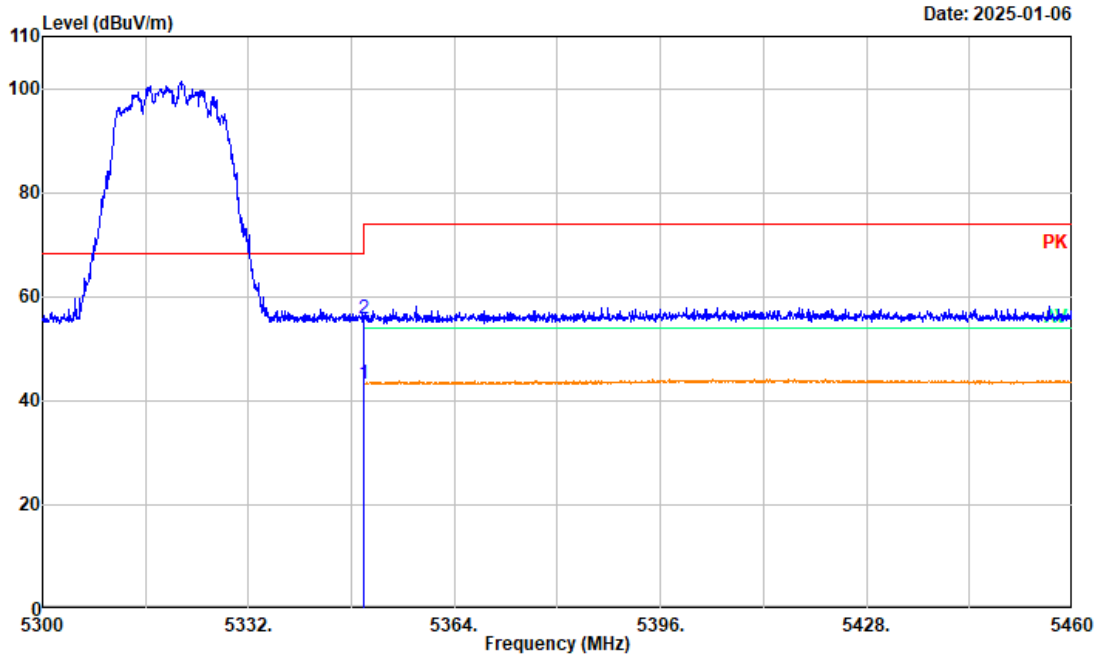


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5260

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5150.000	36.82	8.01	44.83	54.00	-9.17	Average
2	5150.000	49.03	8.01	57.04	74.00	-16.96	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:	802.11a	Channel:	5320MHz

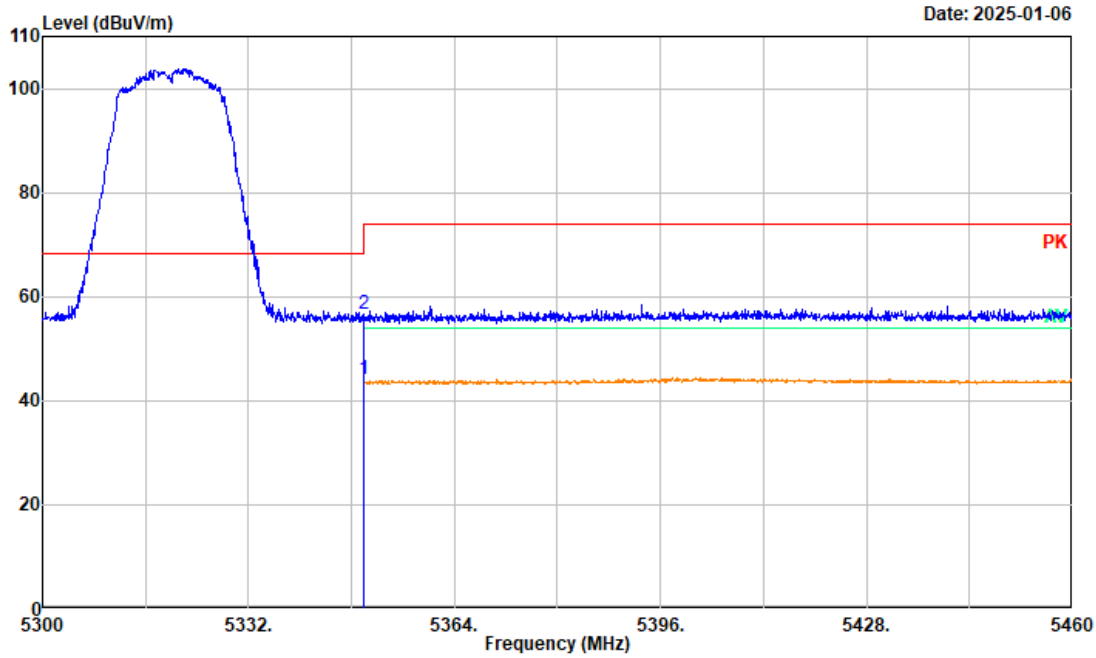


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5320

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5350.000	35.68	7.63	43.31	54.00	-10.69	Average
2	5350.000	48.09	7.63	55.72	74.00	-18.28	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:	802.11a	Channel:	5320MHz

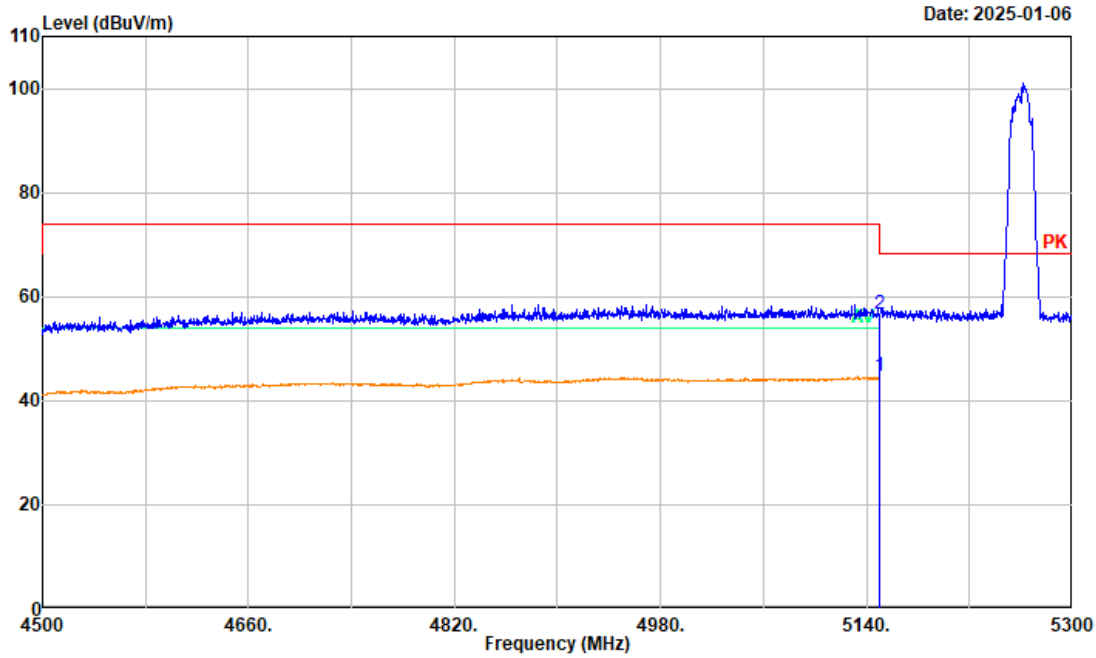


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5320

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5350.000	36.61	7.63	44.24	54.00	-9.76	Average
2	5350.000	49.15	7.63	56.78	74.00	-17.22	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:	802.11n20	Channel:	5260MHz

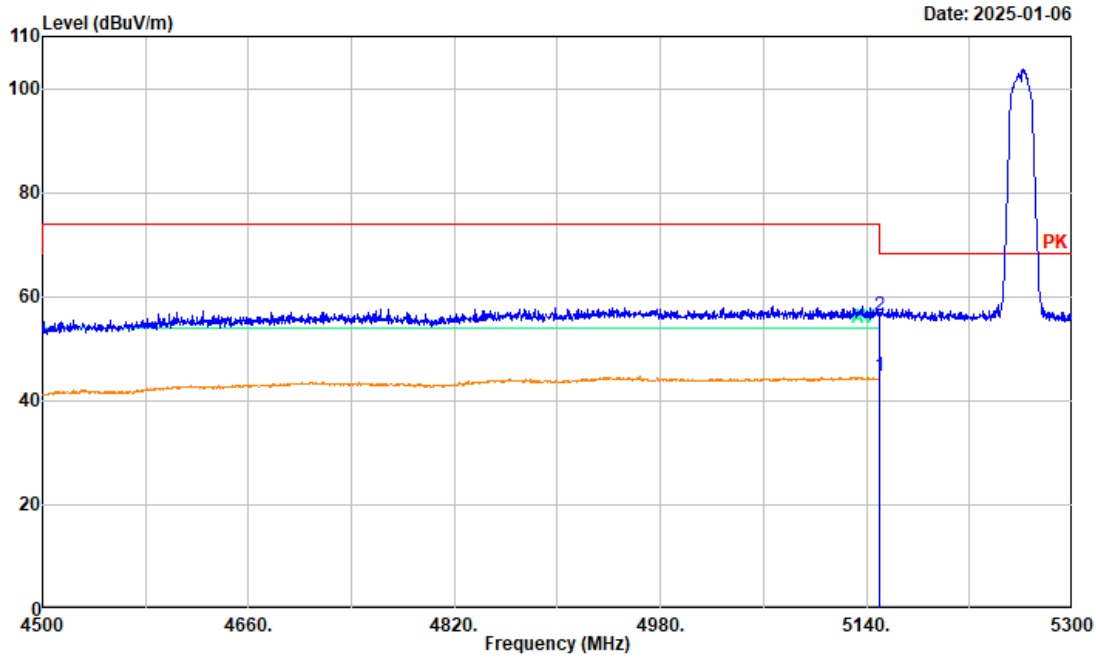


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5260

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5150.000	36.64	8.01	44.65	54.00	-9.35	Average
2	5150.000	48.53	8.01	56.54	74.00	-17.46	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:	802.11n20	Channel:	5260MHz

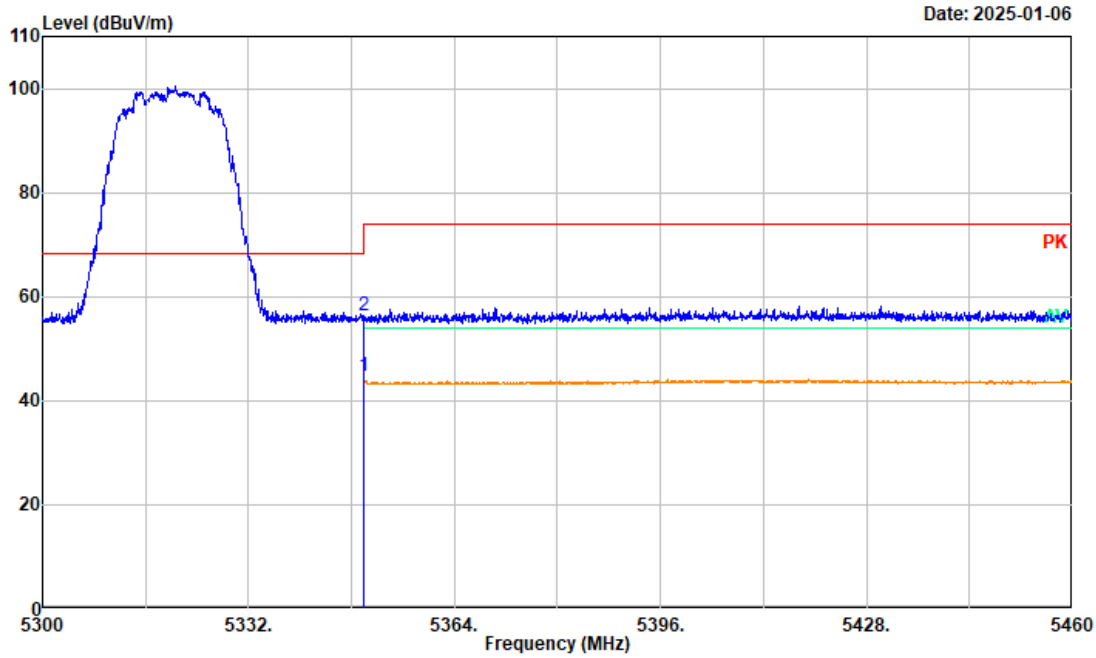


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5260

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5150.000	36.71	8.01	44.72	54.00	-9.28	Average
2	5150.000	48.20	8.01	56.21	74.00	-17.79	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:	802.11n20	Channel:	5320MHz

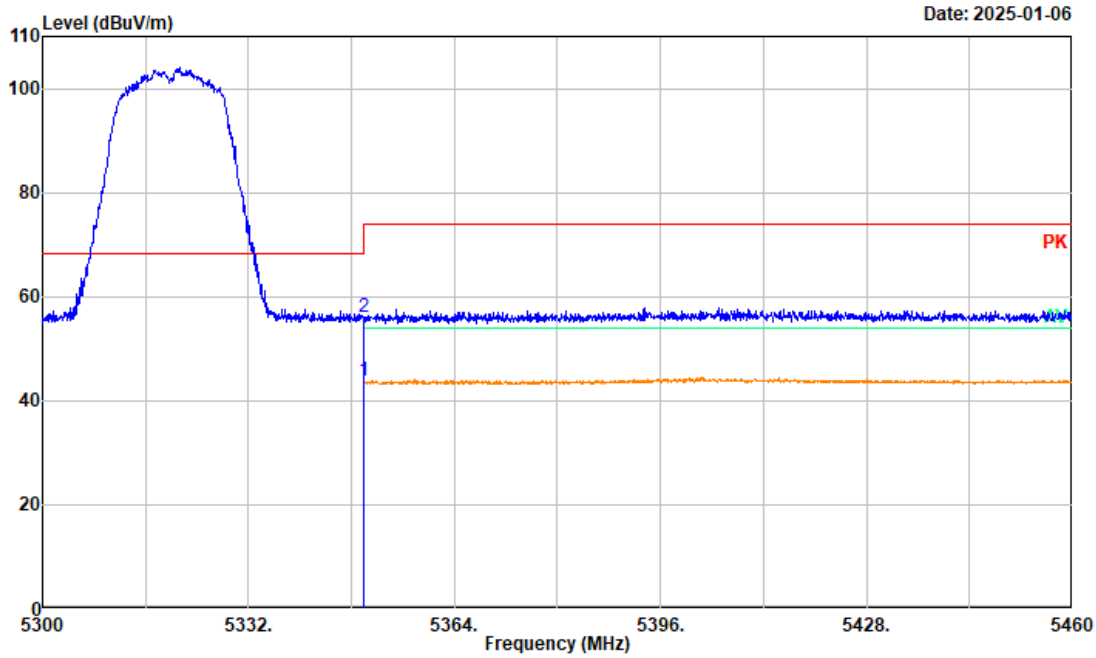


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5320

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5350.000	36.99	7.63	44.62	54.00	-9.38	Average
2	5350.000	48.82	7.63	56.45	74.00	-17.55	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/100Hz , DET: PK

Mode:	802.11n20	Channel:	5320MHz

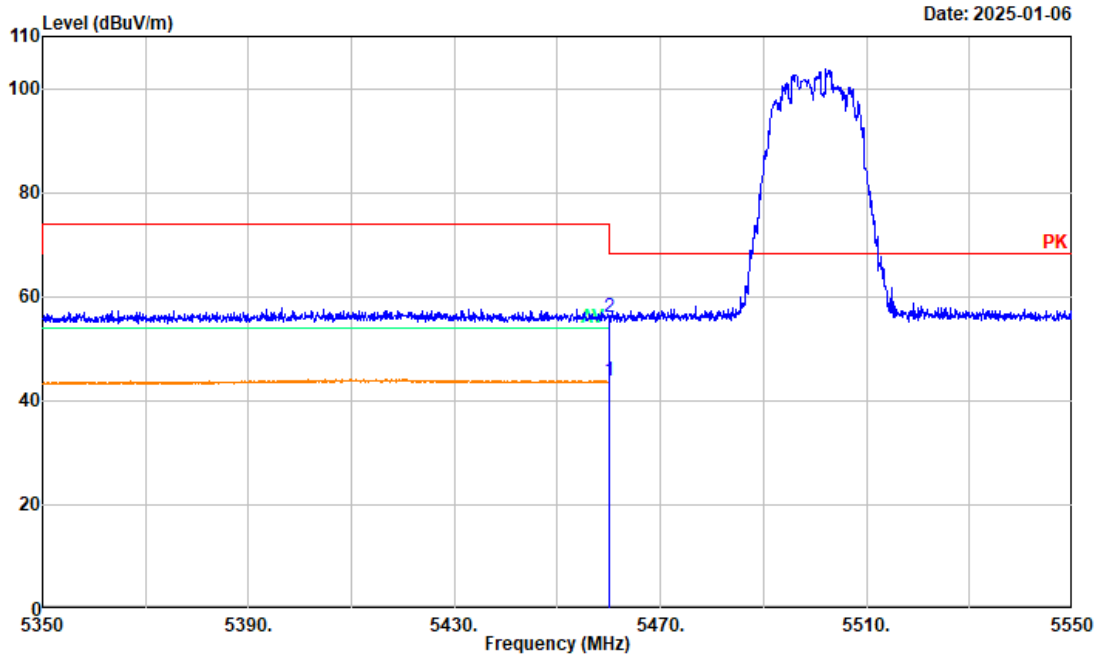


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5320

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5350.000	36.20	7.63	43.83	54.00	-10.17	Average
2	5350.000	48.48	7.63	56.11	74.00	-17.89	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/100Hz , DET: PK

Mode:	802.11a	Channel:	5500MHz

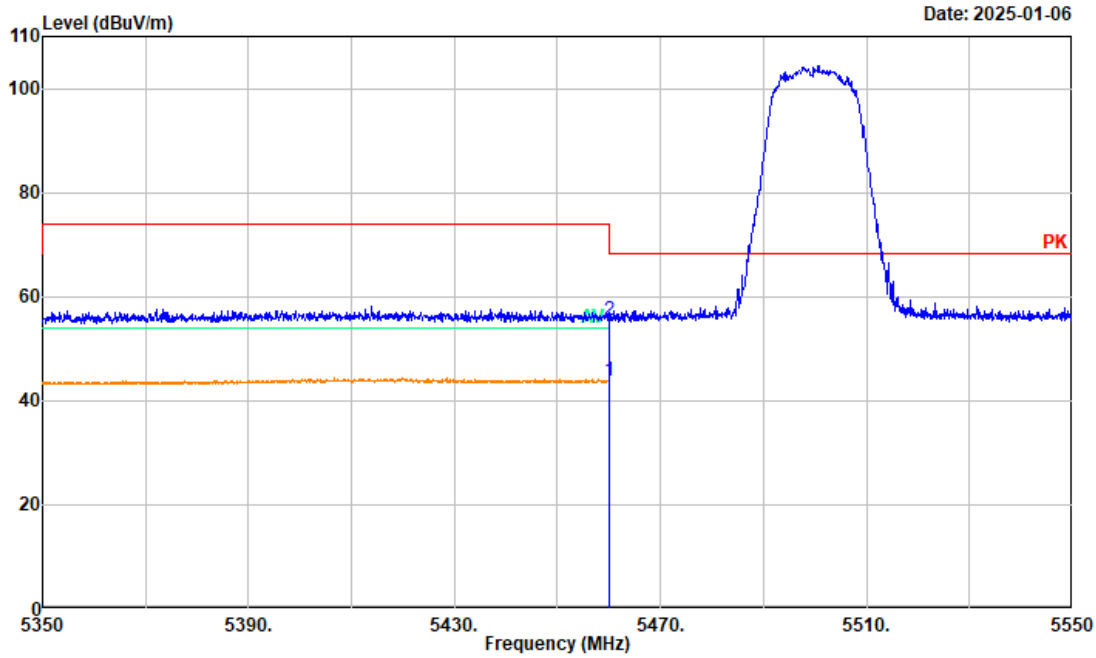


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5500

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5460.000	36.16	7.61	43.77	54.00	-10.23	Average
2	5460.000	48.41	7.61	56.02	68.20	-12.18	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:	802.11a	Channel:	5500MHz

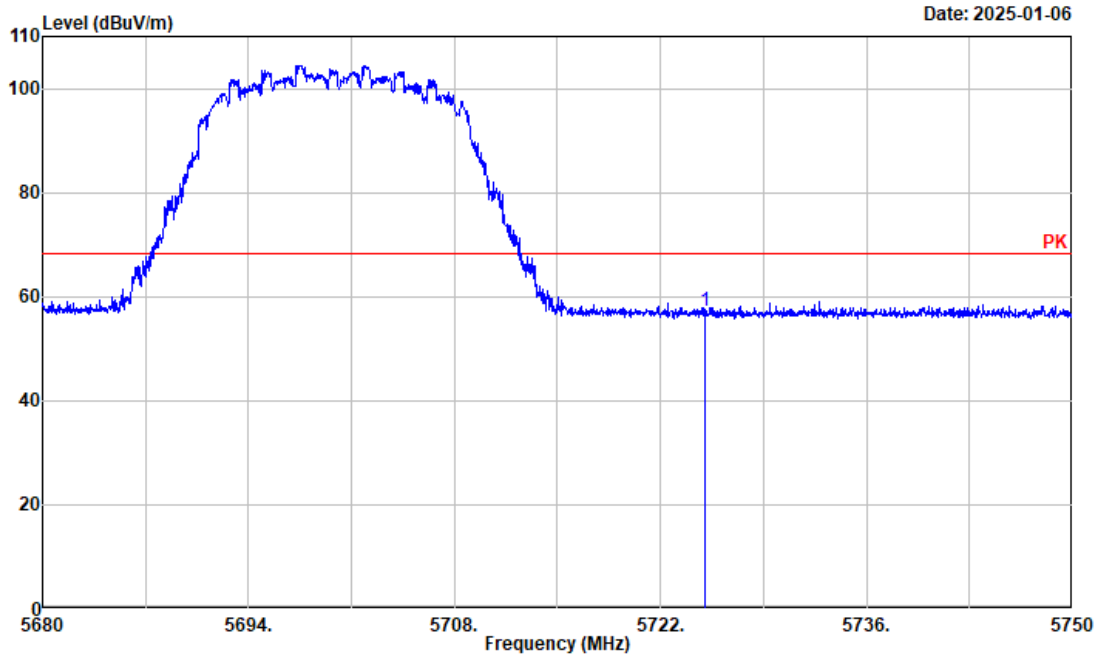


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5500

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5460.000	36.16	7.61	43.77	54.00	-10.23	Average
2	5460.000	47.98	7.61	55.59	68.20	-12.61	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:	802.11a	Channel:	5700MHz

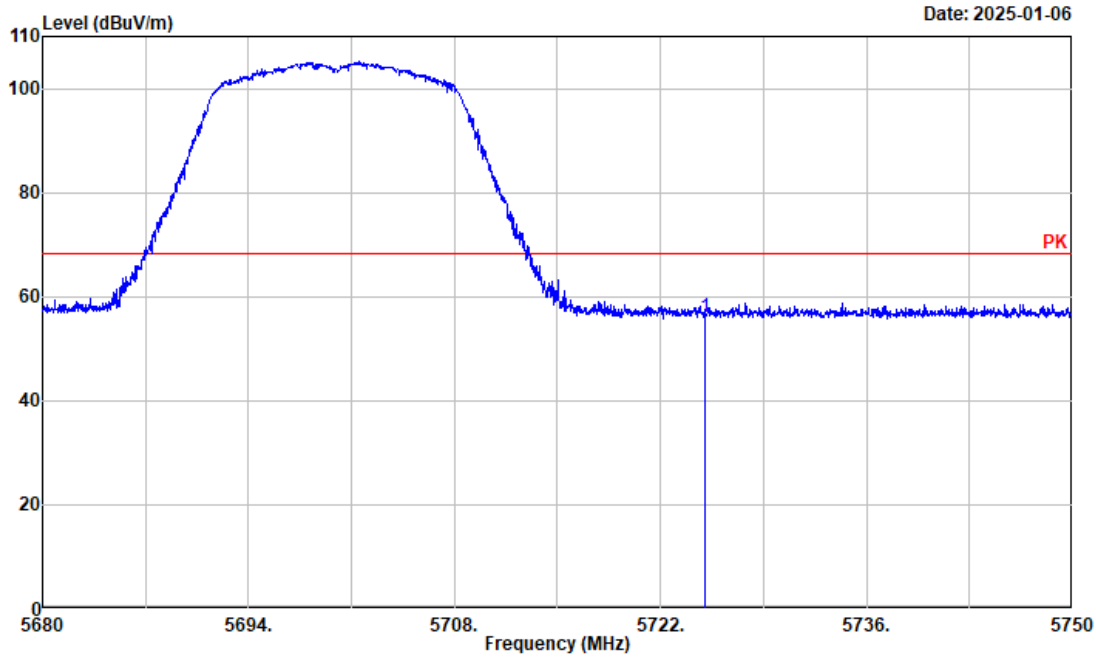


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5700

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5725.000	48.98	8.27	57.25	68.20	-10.95	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:	802.11a	Channel:	5700MHz

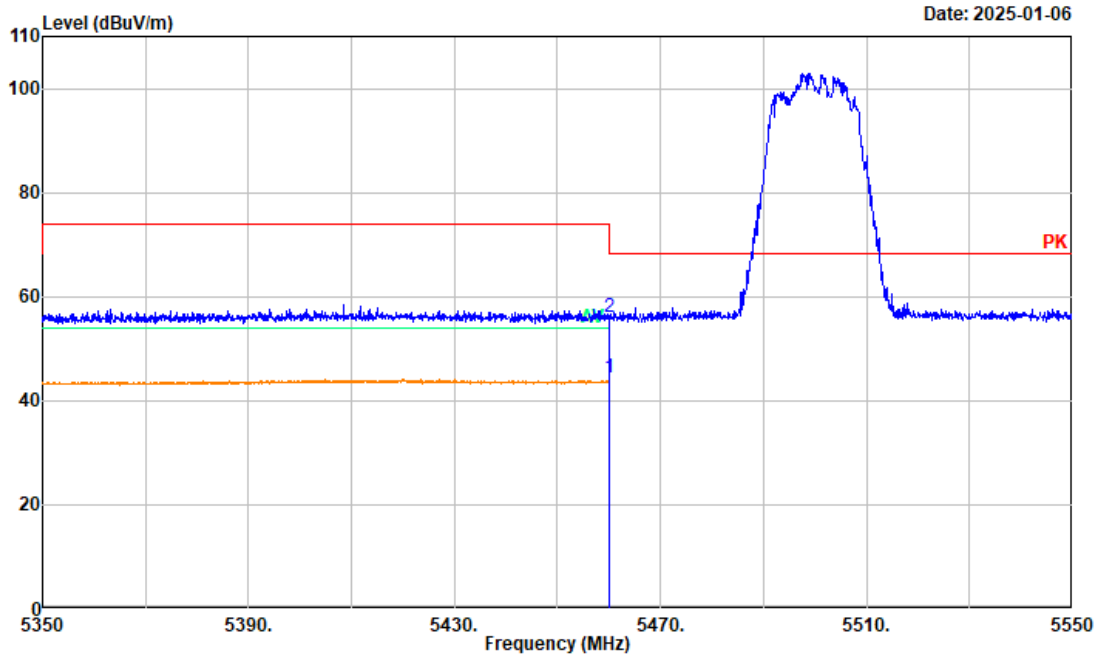


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5700

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5725.000	47.85	8.27	56.12	68.20	-12.08	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:	802.11n20	Channel:	5500MHz

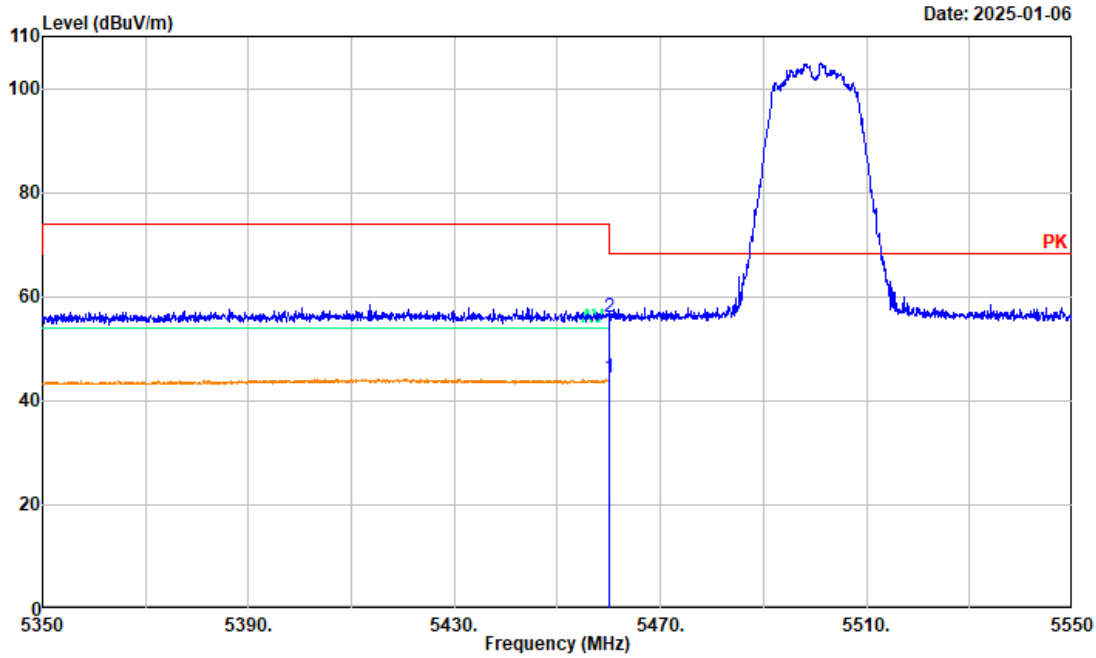


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5500

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5460.000	36.90	7.61	44.51	54.00	-9.49	Average
2	5460.000	48.31	7.61	55.92	68.20	-12.28	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:	802.11n20	Channel:	5500MHz

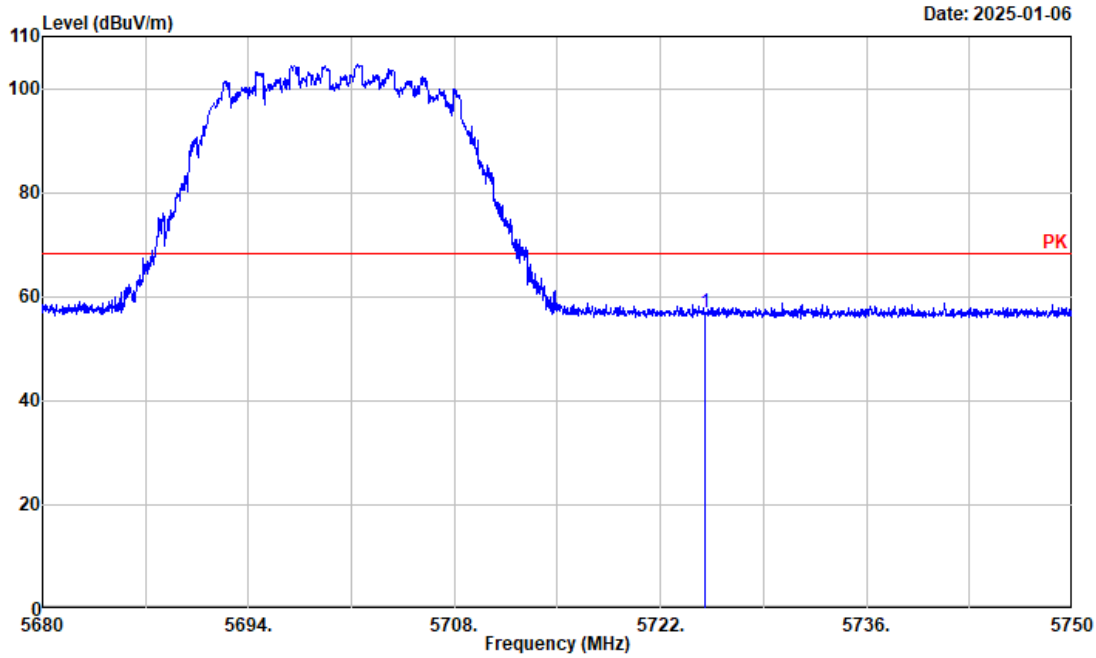


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5500

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5460.000	36.76	7.61	44.37	54.00	-9.63	Average
2	5460.000	48.31	7.61	55.92	68.20	-12.28	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:	802.11n20	Channel:	5700MHz

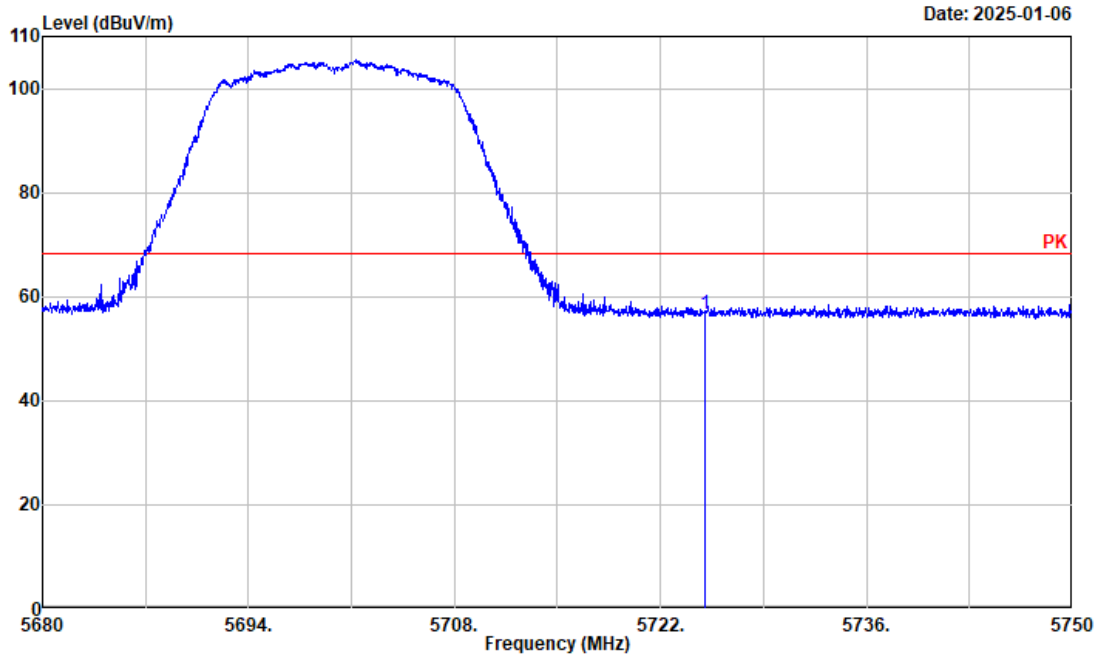


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5725.000	48.71	8.27	56.98	68.20	-11.22	Peak

Remarks: Factor = Antenna factor + Cable loss - Preamp gain - Distance extrapolate factor
Distance extrapolate factor = 20*log(specified distance/measured distance)
Specified distance = 3 meters, measured distance = 1.5 meters
Result = Reading + Factor
Over Limit = Result - Limit
SA setting: Peak: RBW/VWB: 1MHz/3MHz, DET: PK
Average: RBW/VWB: 1MHz/1kHz, DET: PK

Mode:	802.11n20	Channel:	5700MHz

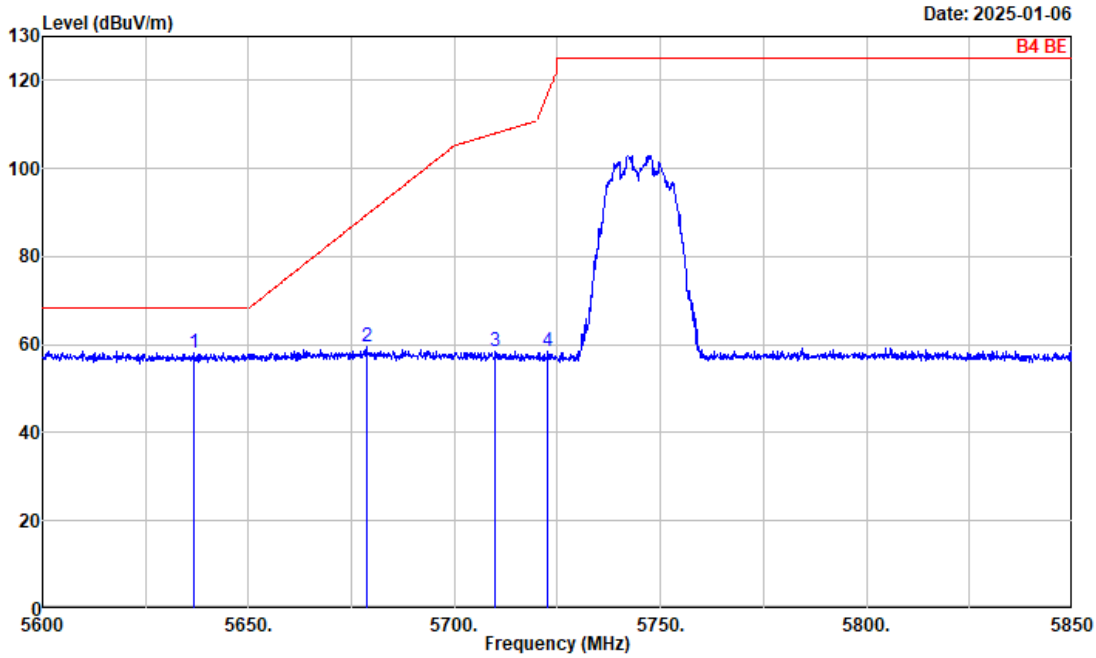


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5700

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5725.000	48.50	8.27	56.77	68.20	-11.43	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:	802.11a	Channel:	5745MHz

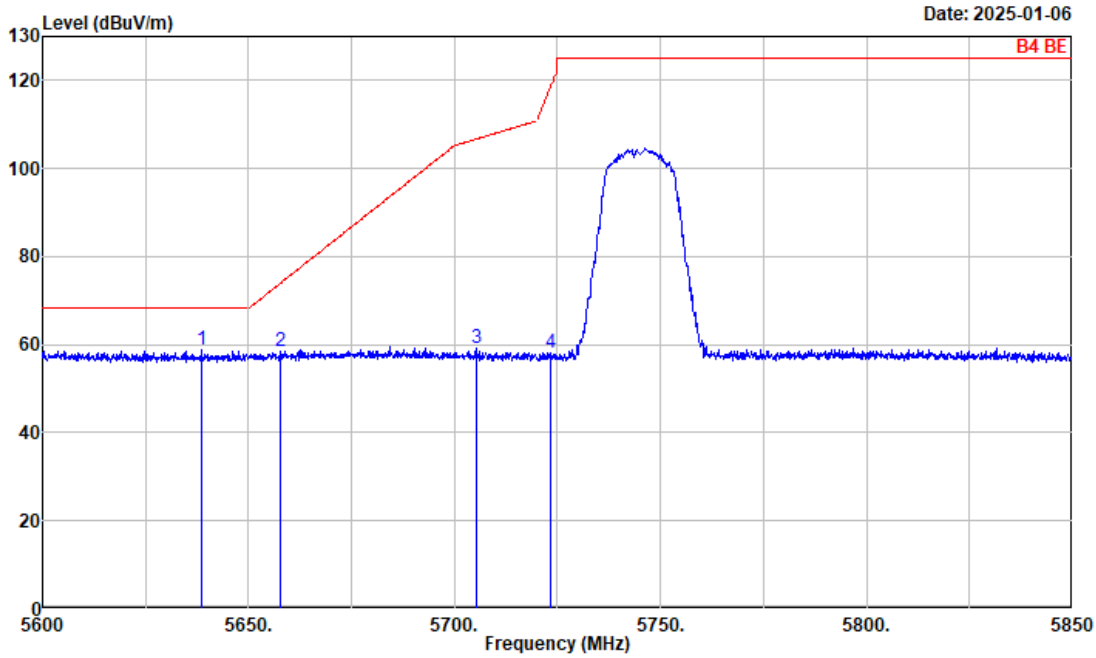


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5745

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5636.625	49.92	8.13	58.05	68.20	-10.15	Peak
2	5678.625	51.15	8.26	59.41	89.42	-30.01	Peak
3	5709.875	50.07	8.31	58.38	107.97	-49.59	Peak
4	5722.750	50.19	8.28	58.47	117.07	-58.60	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:	802.11a	Channel:	5745MHz

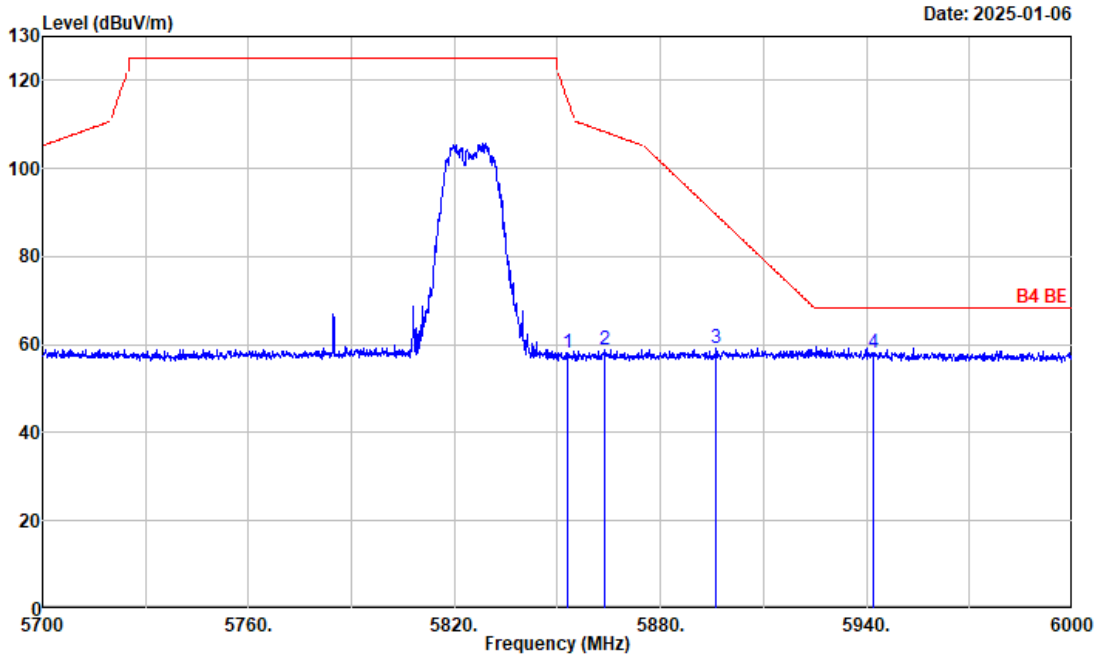


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5745

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5638.500	50.77	8.13	58.90	68.20	-9.30	Peak
2	5657.750	50.40	8.18	58.58	73.96	-15.38	Peak
3	5705.250	50.87	8.31	59.18	106.67	-47.49	Peak
4	5723.500	49.96	8.27	58.23	118.78	-60.55	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:	802.11a	Channel:	5825MHz

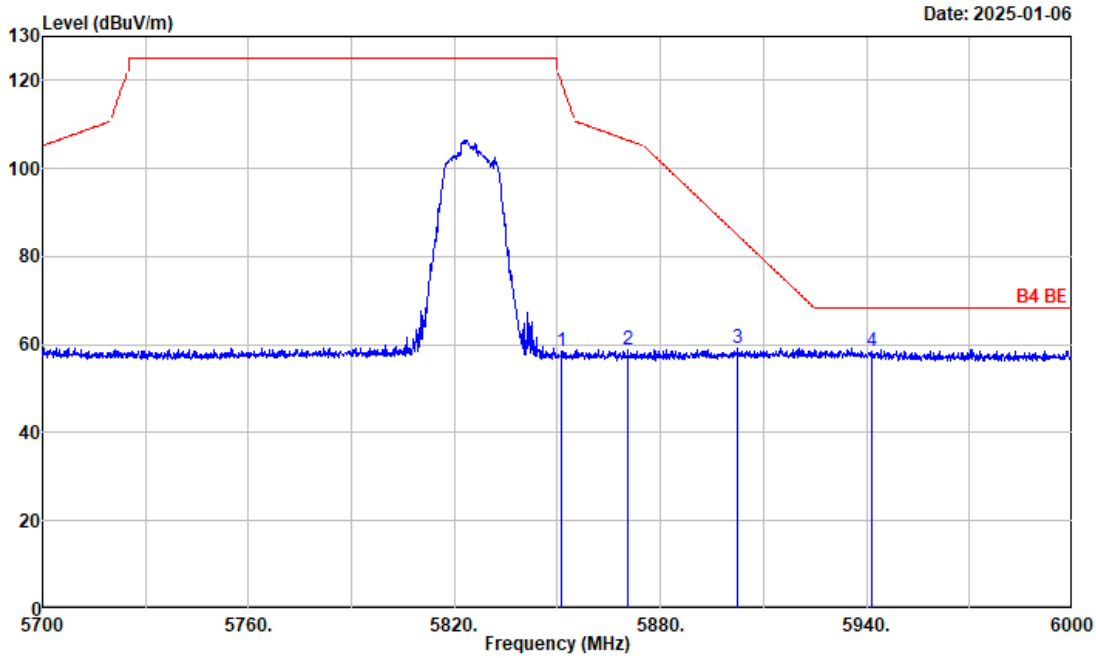


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11a 5825

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5852.850	50.28	7.86	58.14	115.70	-57.56	Peak
2	5863.800	51.17	7.82	58.99	108.33	-49.34	Peak
3	5896.050	51.38	7.69	59.07	89.58	-30.51	Peak
4	5941.950	50.44	7.70	58.14	68.20	-10.06	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:	802.11a	Channel:	5825MHz

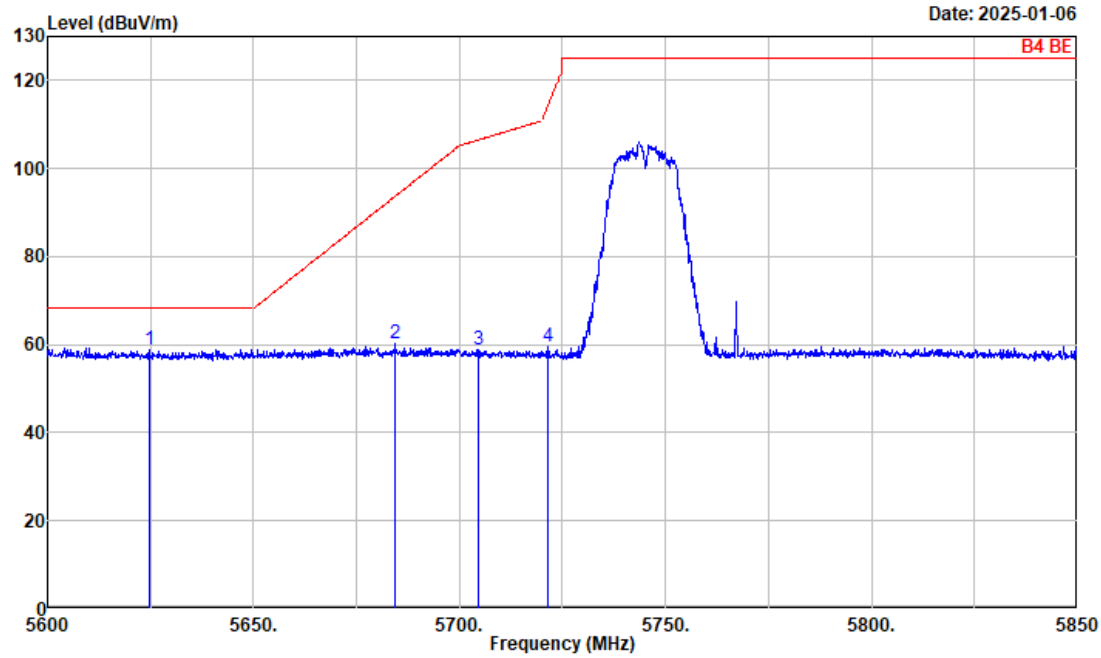


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11a 5825

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5851.200	50.51	7.87	58.38	119.46	-61.08	Peak
2	5870.400	51.17	7.79	58.96	106.49	-47.53	Peak
3	5902.500	51.42	7.67	59.09	84.81	-25.72	Peak
4	5941.650	50.95	7.69	58.64	68.20	-9.56	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:	802.11n20	Channel:	5745MHz

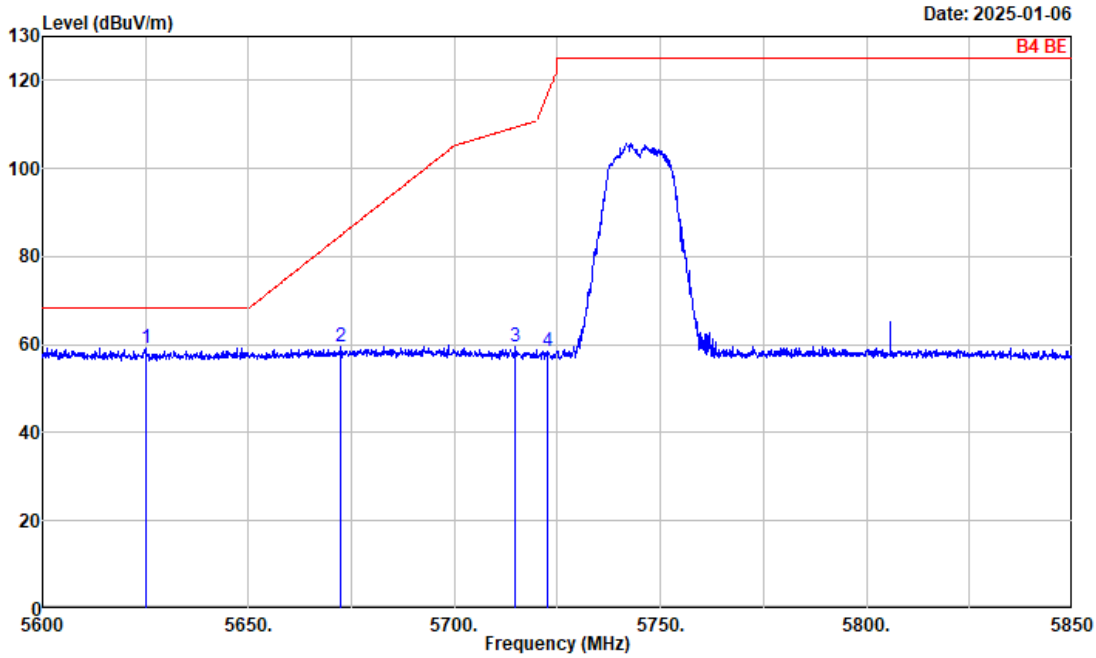


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5745

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5624.625	50.77	8.11	58.88	68.20	-9.32	Peak
2	5684.500	51.97	8.28	60.25	93.76	-33.51	Peak
3	5704.500	50.68	8.32	59.00	106.46	-47.46	Peak
4	5721.375	51.24	8.27	59.51	113.94	-54.43	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:	802.11n20	Channel:	5745MHz

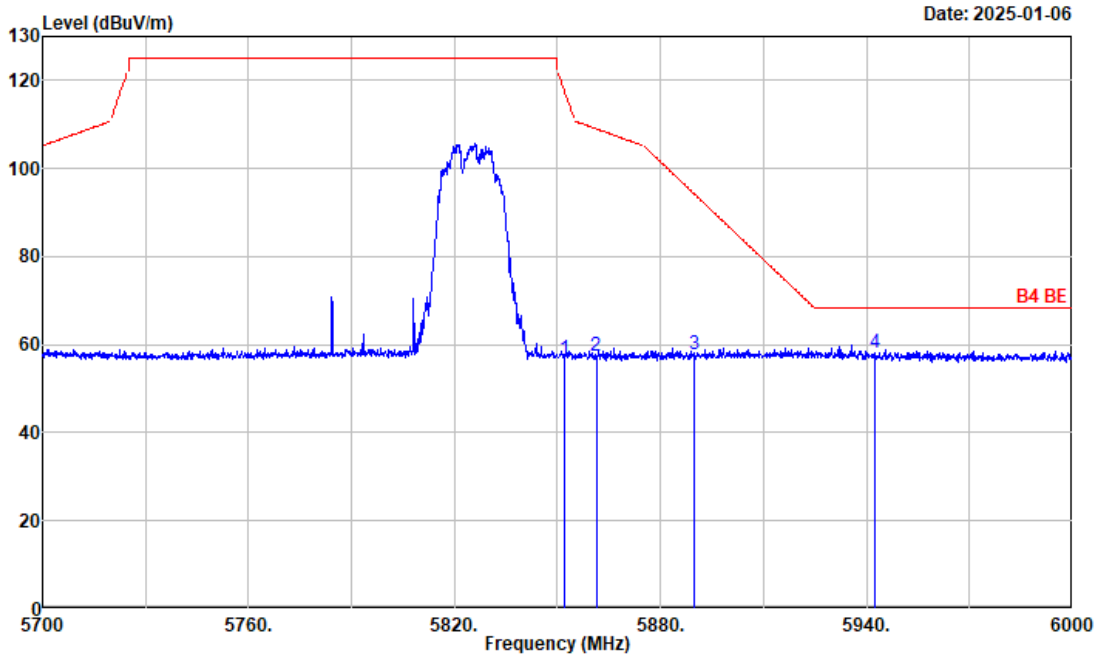


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5745

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5625.000	51.08	8.11	59.19	68.20	-9.01	Peak
2	5672.500	51.13	8.24	59.37	84.89	-25.52	Peak
3	5714.875	51.11	8.29	59.40	109.37	-49.97	Peak
4	5722.750	50.11	8.28	58.39	117.07	-58.68	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:	802.11n20	Channel:	5825MHz

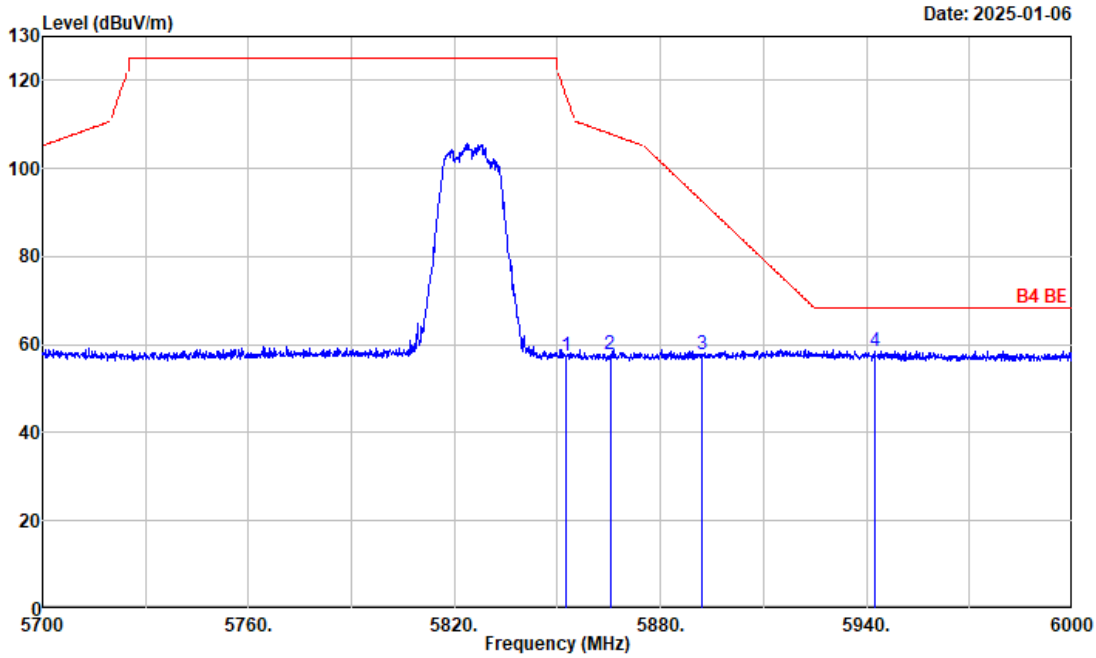


Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : horizontal
Remark : 802.11n20 5825

--No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Detector
1	5852.100	48.79	7.87	56.66	117.41	-60.75	Peak
2	5861.250	49.67	7.83	57.50	109.05	-51.55	Peak
3	5889.900	50.02	7.71	57.73	94.14	-36.41	Peak
4	5942.250	50.47	7.70	58.17	68.20	-10.03	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:	802.11n20	Channel:	5825MHz



Project No. : 2405Z107557E
Test Mode : Transmitting
Test Voltage : AC 120V/60Hz
Environment : 22.5℃/42%R.H./101.4kPa
Tested by : Luke Li
Polarization : vertical
Remark : 802.11n20 5825

--No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Over Limit (dB)	Detector
1	5852.550	49.45	7.86	57.31	116.39	-59.08	Peak
2	5865.300	50.08	7.81	57.89	107.91	-50.02	Peak
3	5892.150	50.03	7.70	57.73	92.47	-34.74	Peak
4	5942.250	50.64	7.70	58.34	68.20	-9.86	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:	2025-01-20~2025-02-05	Test By:	Ryan Zhang
Environment condition:	Temperature: 23.5~23.7°C; Relative Humidity:53~66%; ATM Pressure: 100.0~100.4kPa		

3.5.1 Emission Bandwidth

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	26dB Emission Bandwidth (MHz)
802.11a	Chain 0	5180	19.620
		5200	19.720
		5240	19.820
802.11n20	Chain 0	5180	21.104
		5200	21.242
		5240	21.261

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	26dB Emission Bandwidth (MHz)
802.11a	Chain 0	5260	19.820
		5280	19.319
		5320	19.620
802.11n20	Chain 0	5260	21.155
		5280	19.870
		5320	20.493

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	26dB Emission Bandwidth (MHz)
802.11a	Chain 0	5500	19.319
		5580	19.419
		5700	19.570
		5720	19.770
802.11n20	Chain 0	5500	20.899
		5580	19.920
		5700	20.798
		5720	21.003

5725-5850MHz

Mode	Test Frequency (MHz)	6dB Emission Bandwidth (MHz)	Limit (MHz)	Verdict
802.11a	5745	13.914	0.5	Pass
	5785	15.165	0.5	Pass
	5825	14.515	0.5	Pass
802.11n20	5745	15.215	0.5	Pass
	5785	15.215	0.5	Pass
	5825	11.361	0.5	Pass

3.5.2 99% Occupied Bandwidth

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5180	16.300
		5200	16.300
		5240	16.300
802.11n20	Chain 0	5180	17.450
		5200	17.450
		5240	17.400

Note: the 99% Occupied Bandwidth have not fall into the band 5250-5350MHz.

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5260	16.300
		5280	16.300
		5320	16.350
802.11n20	Chain 0	5260	17.400
		5280	17.450
		5320	17.450

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5500	16.300
		5580	16.350
		5700	16.350
		5720	16.300
802.11n20	Chain 0	5500	17.400
		5580	17.400
		5700	17.400
		5720	17.400

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	99% OBW (MHz)
802.11a	Chain 0	5745	16.300
		5785	16.300
		5825	16.300
802.11n20	Chain 0	5745	17.400
		5785	17.500
		5825	17.450

Note: the 99% Occupied Bandwidth have not fall into the band 5470-5725MHz.

3.5.3 Maximum conducted output power

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5180	9.09	23.98	Pass
		5200	9.35	23.98	Pass
		5240	9.51	23.98	Pass
802.11n20	Chain 0	5180	8.98	23.98	Pass
		5200	9.20	23.98	Pass
		5240	9.37	23.98	Pass

Note: the EUT is client device

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5260	10.15	23.97	Pass
		5280	10.63	23.86	Pass
		5320	10.99	23.93	Pass
802.11n20	Chain 0	5260	9.98	23.98	Pass
		5280	10.51	23.98	Pass
		5320	11.04	23.98	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5500	11.89	23.86	Pass
		5580	12.12	23.88	Pass
		5700	12.60	23.92	Pass
		5720	12.51	23.96	Pass
802.11n20	Chain 0	5500	11.94	23.98	Pass
		5580	12.01	23.98	Pass
		5700	12.39	23.98	Pass
		5720	12.49	23.98	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Average Output Power(dBm)	Limit (dBm)	Verdict
802.11a	Chain 0	5745	11.75	30	Pass
		5785	11.64	30	Pass
		5825	11.69	30	Pass
802.11n20	Chain 0	5745	12.14	30	Pass
		5785	11.45	30	Pass
		5825	11.55	30	Pass

Note：

Duty cycle Factor has been included in the Average Output Power.

3.5.4 Power Spectral Density

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5180	-6.77	6.86	0.09	11	Pass
		5200	-7.10	6.89	-0.21	11	Pass
		5240	-7.32	6.88	-0.44	11	Pass
802.11n20	Chain 0	5180	-7.43	7.18	-0.25	11	Pass
		5200	-7.52	7.18	-0.34	11	Pass
		5240	-8.05	7.22	-0.83	11	Pass

Note: the EUT is client device

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5260	-5.76	6.88	1.12	11	Pass
		5280	-5.76	6.89	1.13	11	Pass
		5320	-5.05	6.88	1.83	11	Pass
802.11n20	Chain 0	5260	-6.57	7.17	0.60	11	Pass
		5280	-7.60	7.20	-0.40	11	Pass
		5320	-6.39	7.24	0.85	11	Pass

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/MHz)	Duty Cycle Factor(dB)	Result (dBm/MHz)	Limit (dBm/MHz)	Verdict
802.11a	Chain 0	5500	-4.22	6.88	2.66	11	Pass
		5580	-3.57	6.89	3.32	11	Pass
		5700	-4.09	6.99	2.90	11	Pass
		5720	-4.17	6.87	2.70	11	Pass
802.11n20	Chain 0	5500	-5.01	7.20	2.19	11	Pass
		5580	-5.68	7.19	1.51	11	Pass
		5700	-4.06	7.19	3.13	11	Pass
		5720	-5.29	7.25	1.96	11	Pass

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Reading (dBm/500KHz)	Duty Cycle Factor(dB)	Result (dBm/500KHz)	Limit (dBm/500KHz)	Verdict
802.11a	Chain 0	5745	-6.77	6.87	0.10	30	Pass
		5785	-8.18	6.88	-1.30	30	Pass
		5825	-8.37	6.88	-1.49	30	Pass
802.11n20	Chain 0	5745	-8.07	7.44	-0.63	30	Pass
		5785	-7.88	7.20	-0.68	30	Pass
		5825	-8.62	7.18	-1.44	30	Pass

Result = Reading + Duty Cycle Factor

3.5.5 Duty Cycle

5150-5250MHz

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	Chain 0	5180	2.056	9.983	20.60	6.86	486	0.5
		5200	2.052	10.023	20.47	6.89	487	0.5
		5240	2.056	10.033	20.49	6.88	486	0.5
802.11n20	Chain 0	5180	1.908	9.978	19.12	7.18	524	1
		5200	1.913	9.991	19.15	7.18	523	1
		5240	1.904	10.028	18.99	7.22	525	1

5250-5350MHz

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	Chain 0	5260	2.050	9.991	20.52	6.88	488	0.5
		5280	2.054	10.028	20.48	6.89	487	0.5
		5320	2.059	10.028	20.53	6.88	486	0.5
802.11n20	Chain 0	5260	1.913	9.973	19.18	7.17	523	1
		5280	1.908	10.013	19.06	7.20	524	1
		5320	1.885	9.993	18.86	7.24	531	1

5470-5725MHz

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	Chain 0	5500	2.054	10.023	20.49	6.88	487	0.5
		5580	2.052	10.023	20.47	6.89	487	0.5
		5700	1.990	9.948	20.00	6.99	503	1
		5720	2.057	10.013	20.54	6.87	486	0.5
802.11n20	Chain 0	5500	1.909	10.023	19.05	7.20	524	1
		5580	1.908	9.983	19.11	7.19	524	1
		5700	1.913	10.018	19.10	7.19	523	1
		5720	1.880	9.983	18.83	7.25	532	1

5725-5850MHz

Mode	Antenna	Test Frequency (MHz)	Ton (ms)	Ton+Toff (ms)	Duty Cycle (%)	Duty Cycle Factor(dB)	1/Ton (Hz)	VBW Setting (kHz)
802.11a	Chain 0	5745	2.055	9.992	20.57	6.87	487	0.5
		5785	2.059	10.028	20.53	6.88	486	0.5
		5825	2.053	10.008	20.51	6.88	487	0.5
802.11n20	Chain 0	5745	1.783	9.888	18.03	7.44	561	1
		5785	1.907	10.003	19.06	7.20	524	1
		5825	1.913	9.983	19.16	7.18	523	1

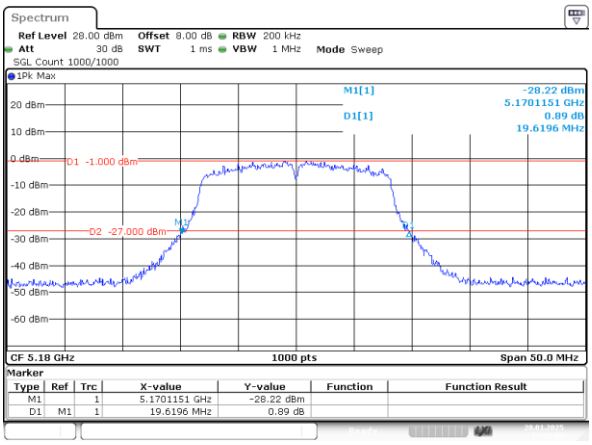
Duty Cycle = Ton/(Ton+Toff)*100%

Test Plots:

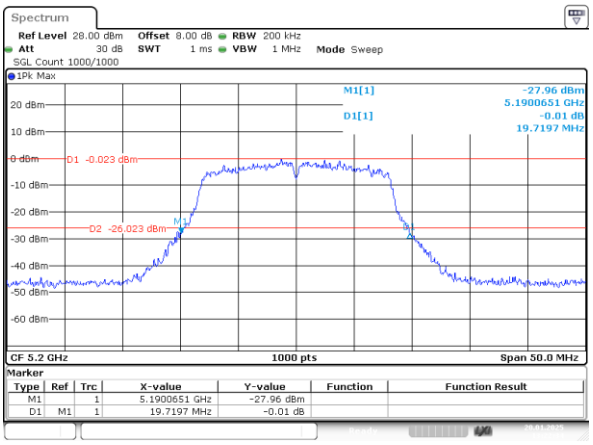
Emission Bandwidth

5150-5250MHz

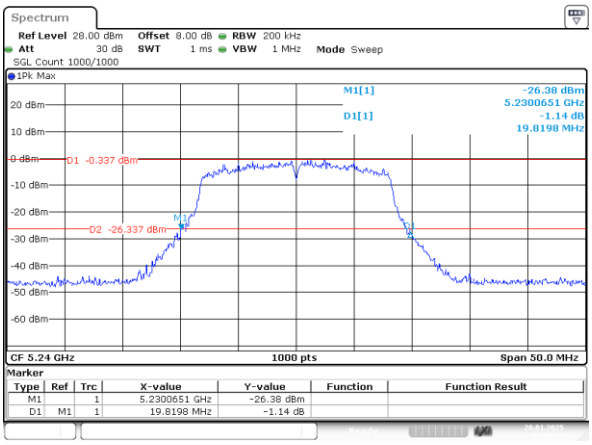
802.11a_5180MHz



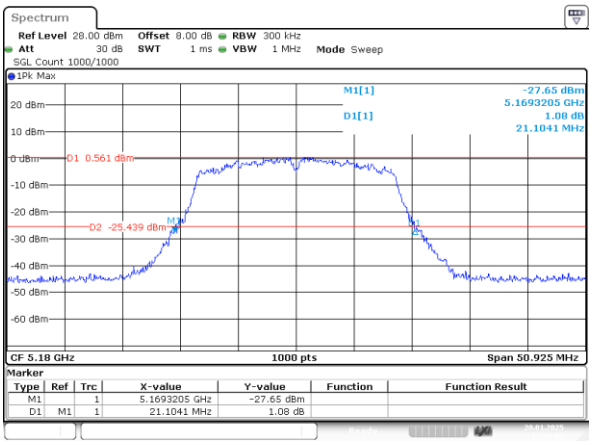
802.11a_5200MHz



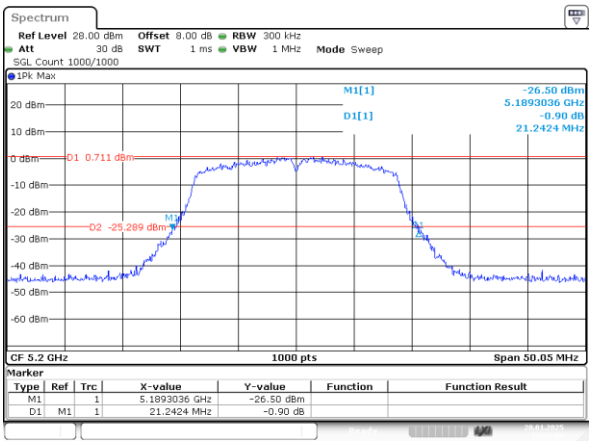
802.11a_5240MHz



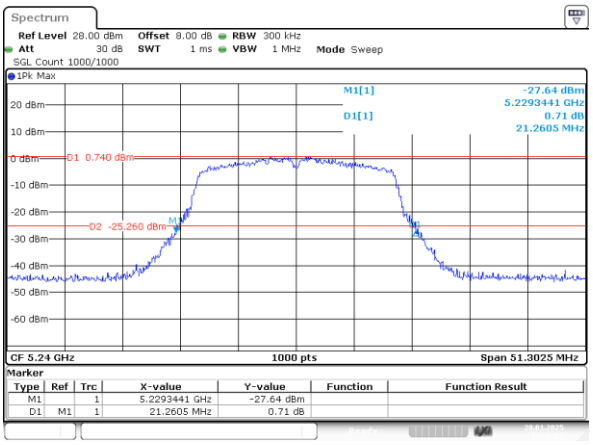
802.11n20_5180MHz



802.11n20_5200MHz

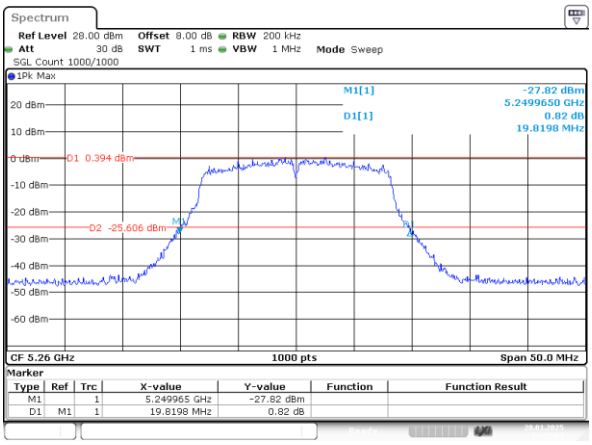


802.11n20_5240MHz

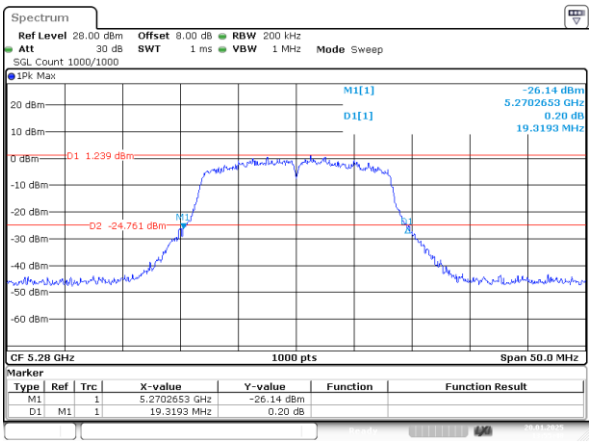


5250-5350MHz

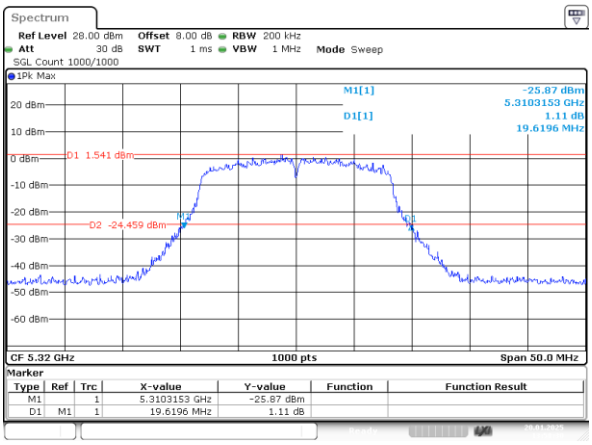
802.11a_5260MHz



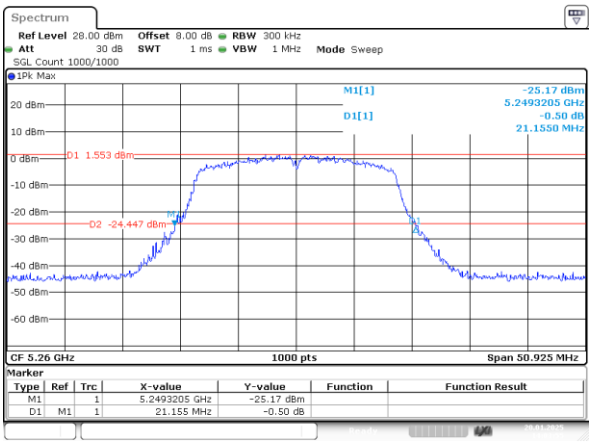
802.11a_5280MHz



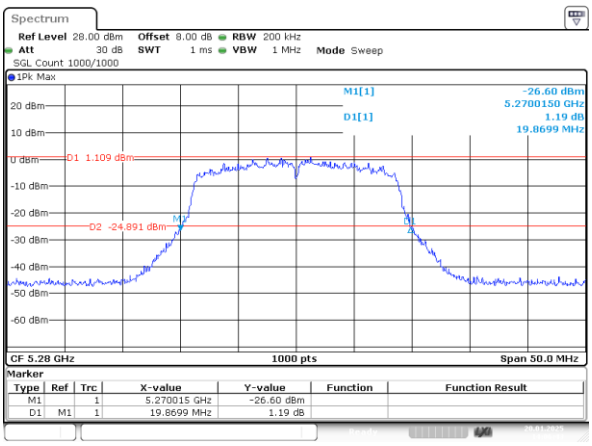
802.11a_5320MHz



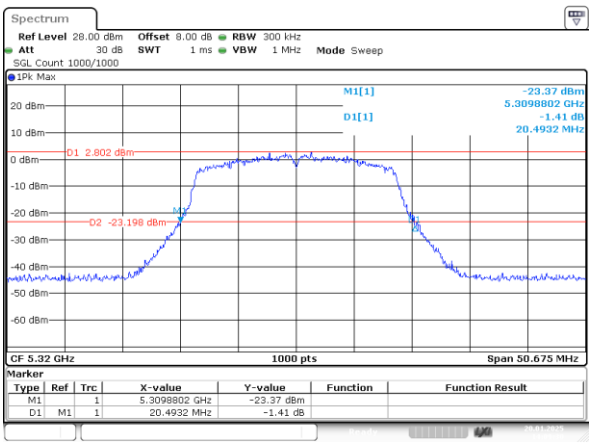
802.11n20_5260MHz



802.11n20_5280MHz

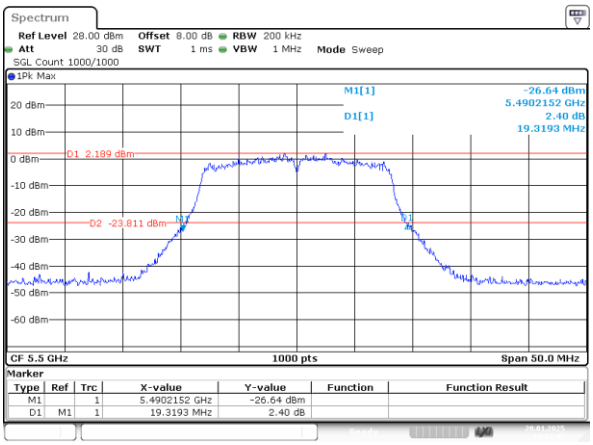


802.11n20_5320MHz

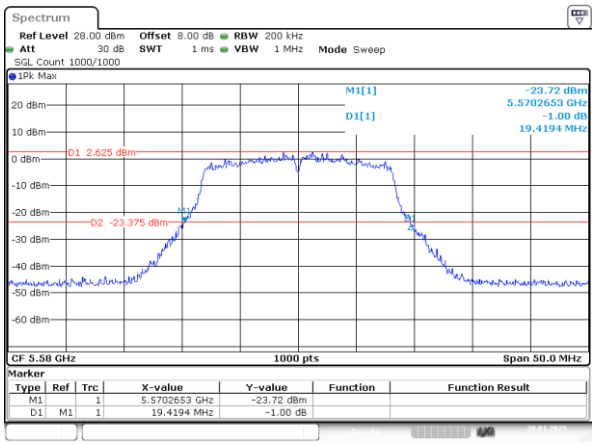


5470-5725MHz

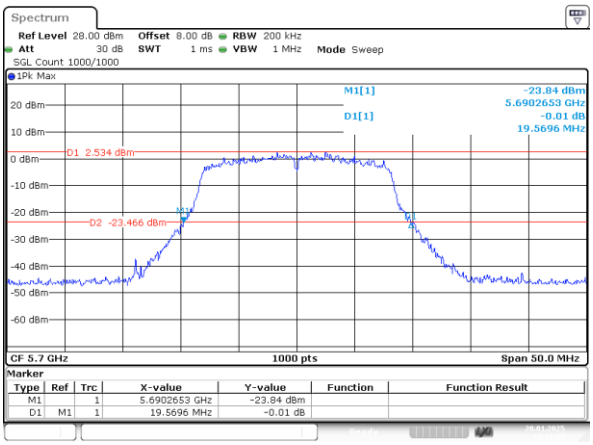
802.11a_5500MHz



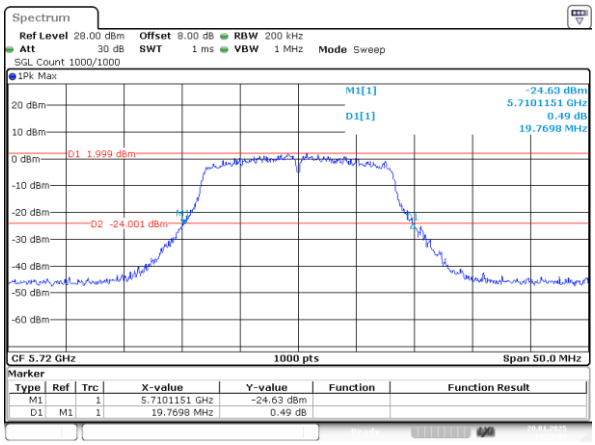
802.11a_5580MHz



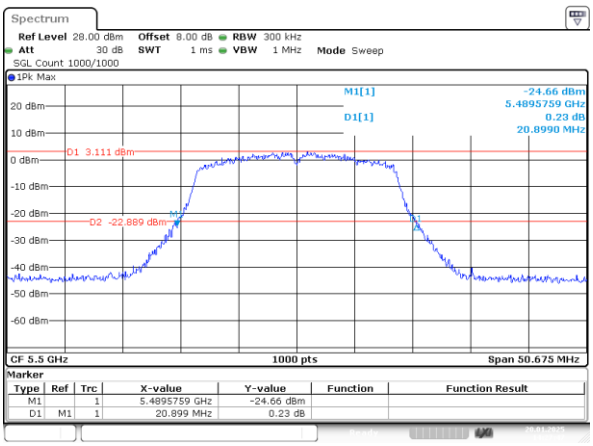
802.11a_5700MHz



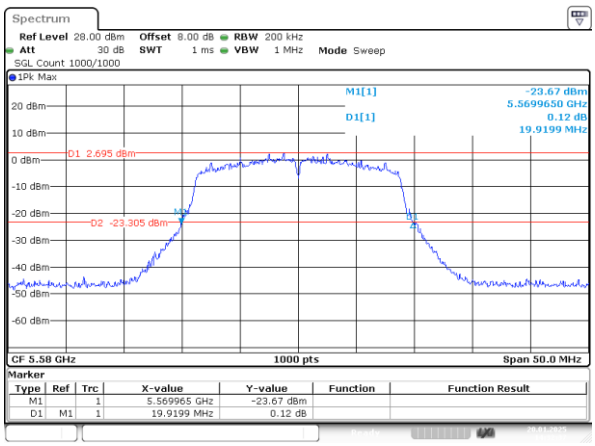
802.11a_5720MHz



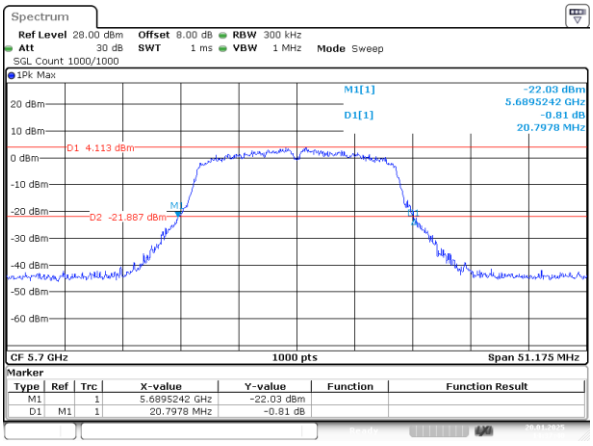
802.11n20_5500MHz



802.11n20_5580MHz

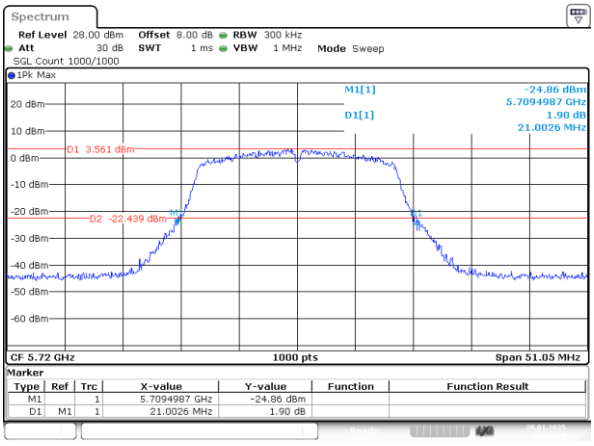


802.11n20_5700MHz



ProjectNo.:2405Z107557E-RF Tester:Ryan Zhang
Date: 20.JAN.2025 14:37:40

802.11n20_5720MHz



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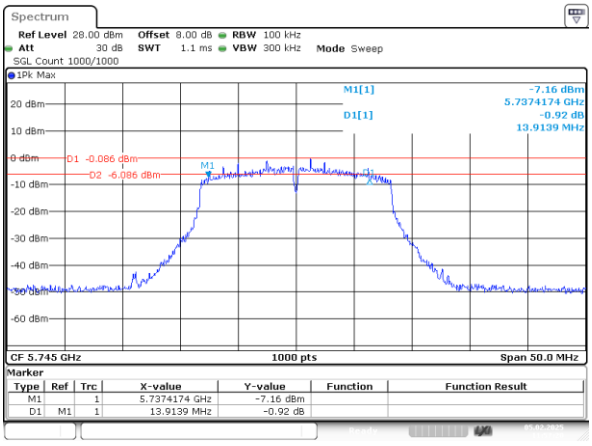
Date: 20.JAN.2025 14:41:29

5725-5850MHz

802.11a_5745MHz



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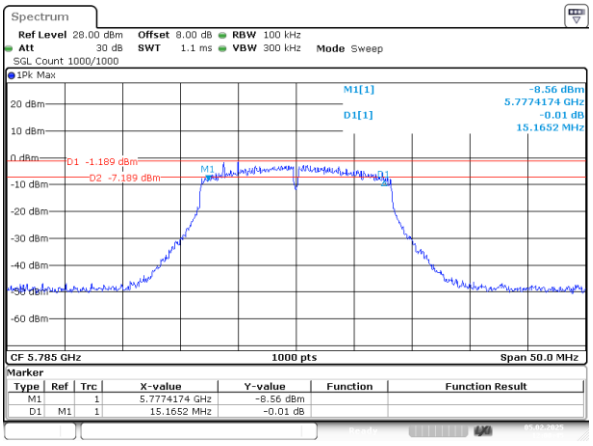
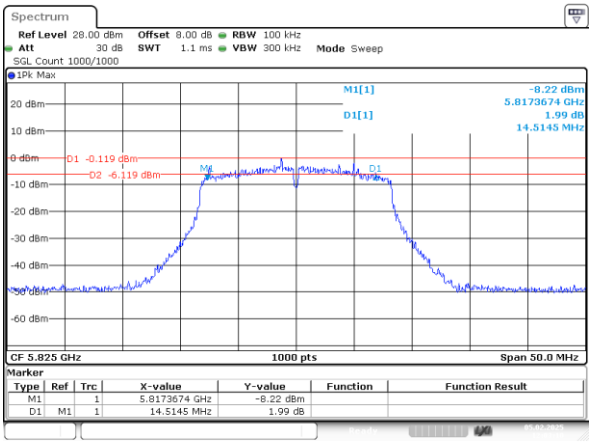
Date: 5.FEB.2025 11:57:20

802.11a_5785MHz



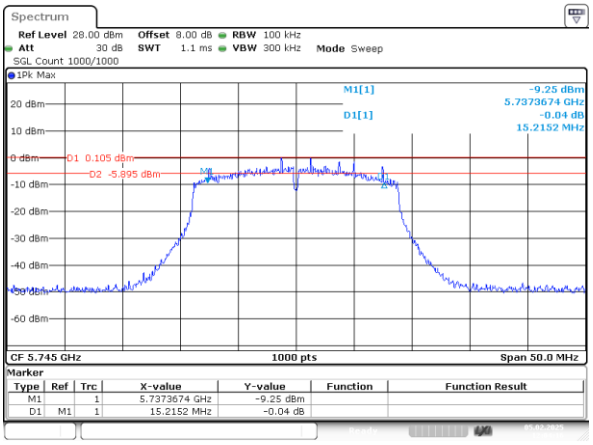
ProjectNo.:2405Z107557E-RF Tester:Ryan Zhang
Date: 5.FEB.2025 12:00:44

802.11a_5825MHz



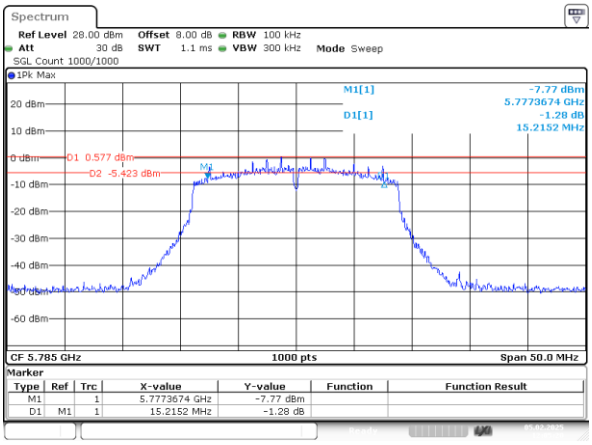
ProjectNo.:2405Z107557E-RF Tester:Ryan Zhang
Date: 5.FEB.2025 12:03:09

802.11n20_5745MHz



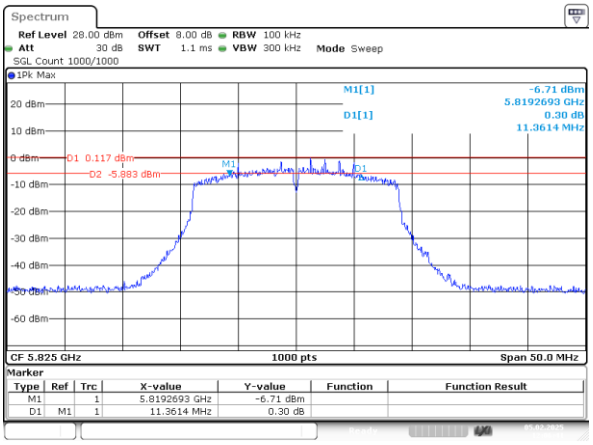
ProjectNo.:2405Z107557E-RF Tester:Ryan Zhang
Date: 5.FEB.2025 12:04:16

802.11n20_5785MHz



ProjectNo.:2405Z107557E-RF Tester:Ryan Zhang
Date: 5.FEB.2025 12:05:20

802.11n20_5825MHz

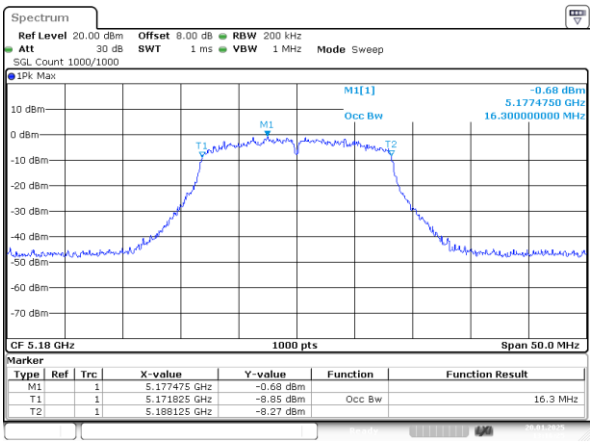


ProjectNo.:2405Z107557E-RF Tester:Ryan Zhang
Date: 5.FEB.2025 12:06:41

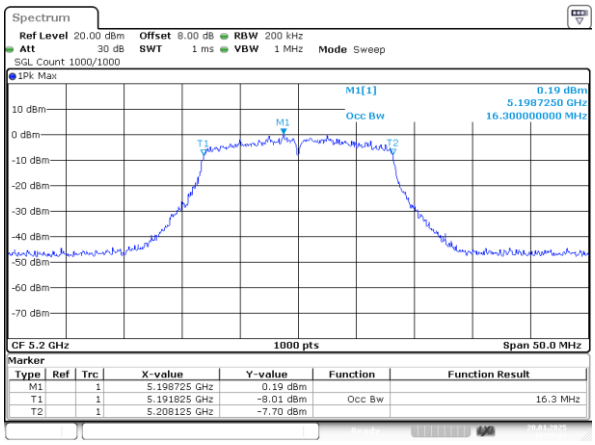
99% Occupied Bandwidth

5150-5250MHz

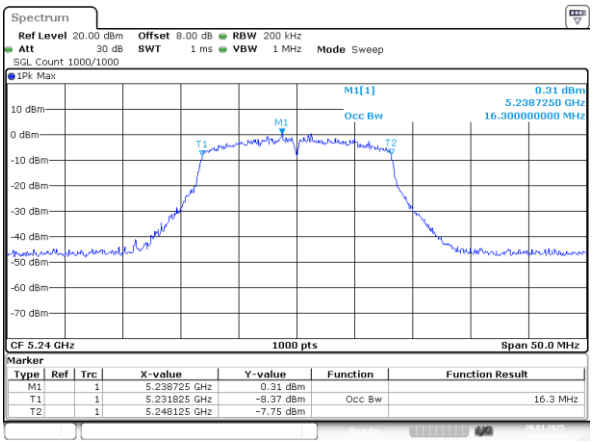
802.11a_5180MHz



802.11a_5200MHz



802.11a_5240MHz



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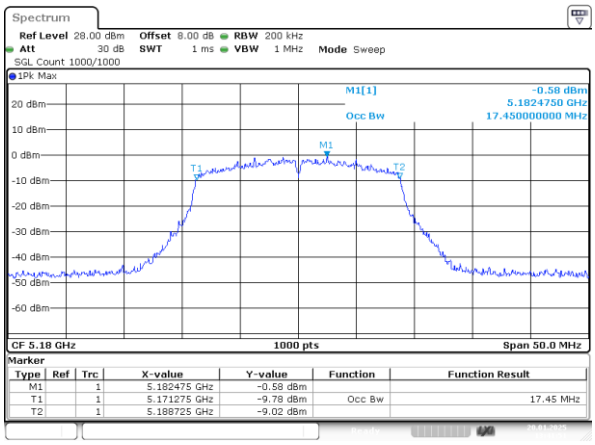

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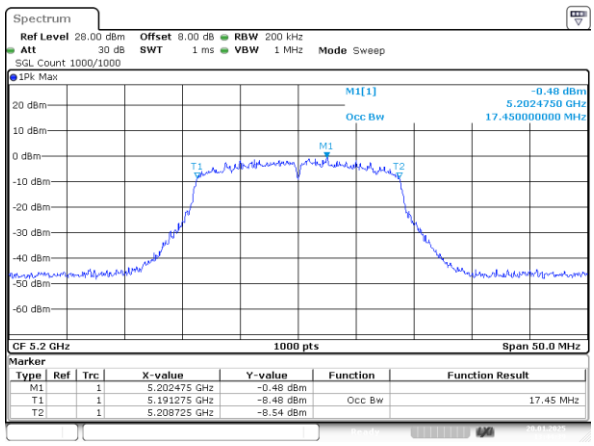
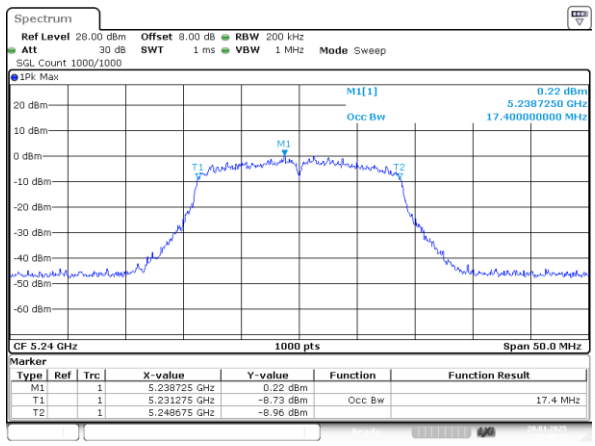
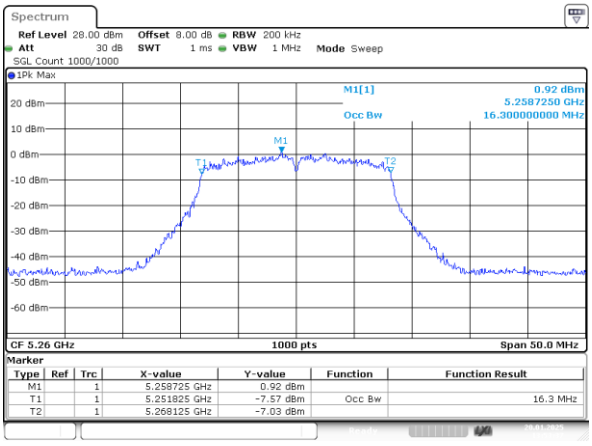


802.11n20_5240MHz

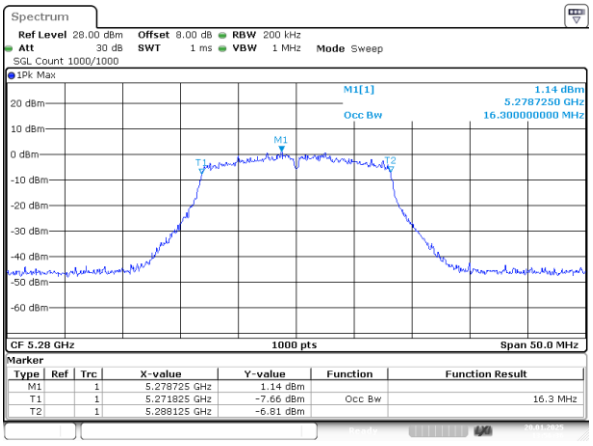


5250-5350MHz

802.11a_5260MHz



802.11a_5280MHz



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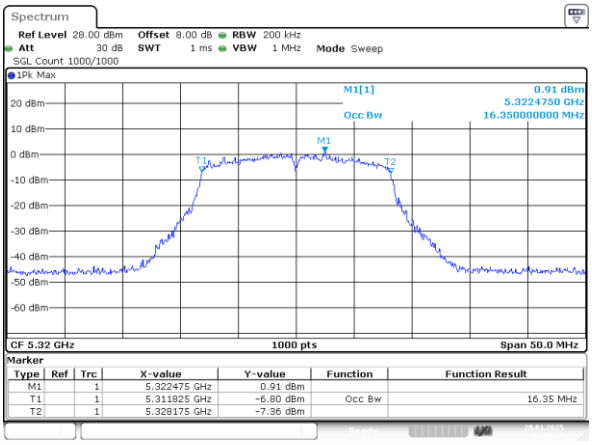

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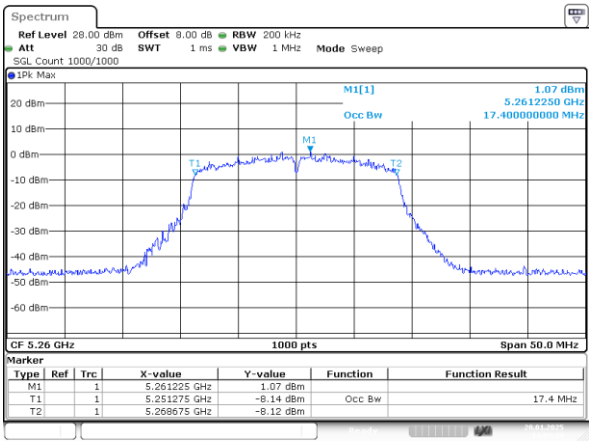

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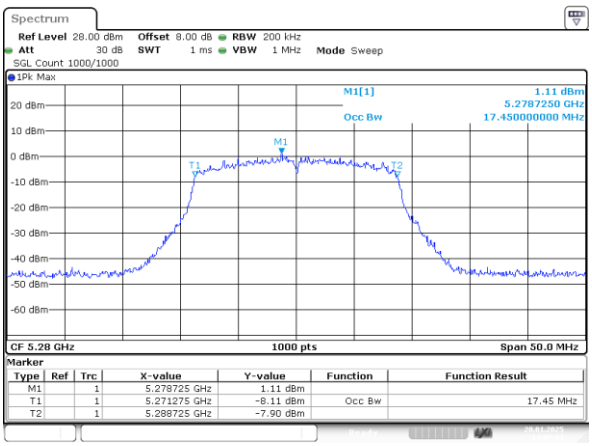

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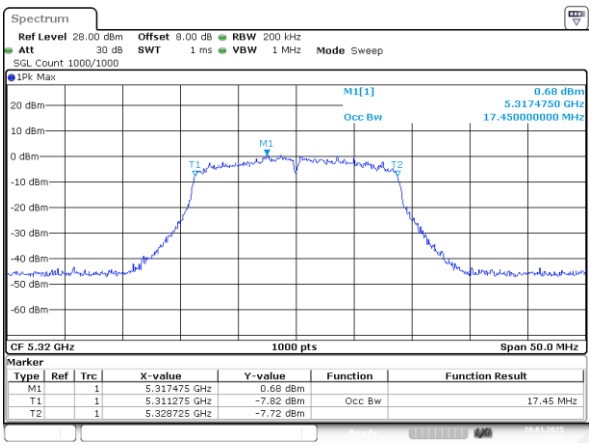
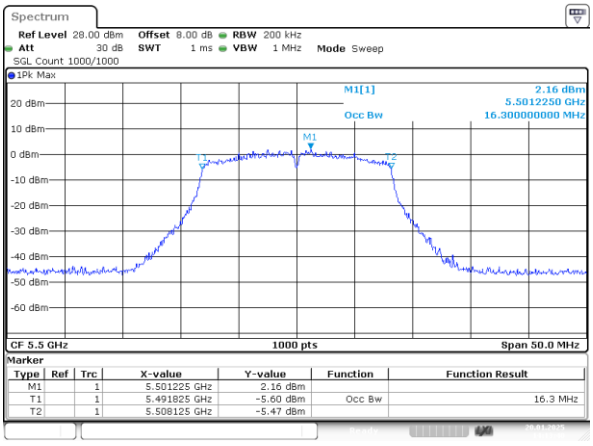
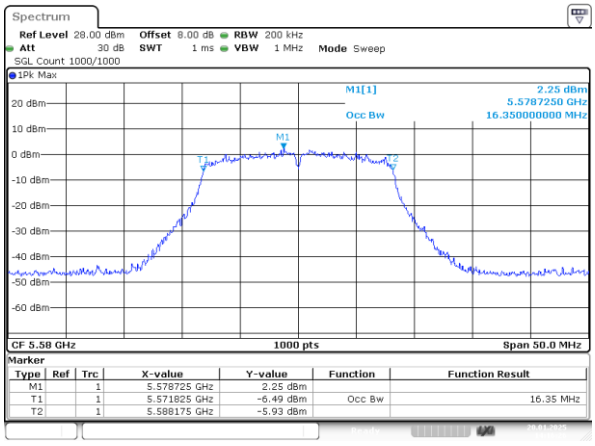


5470-5725MHz

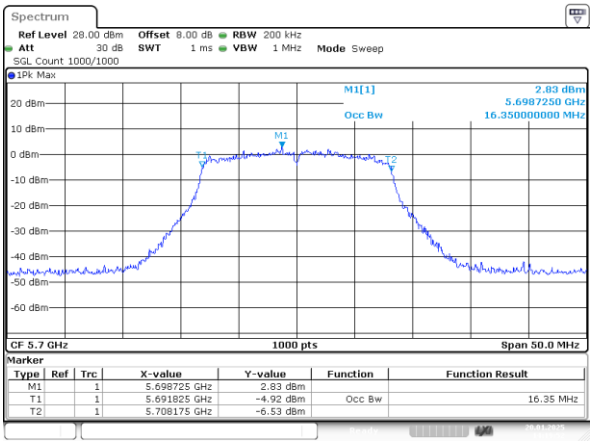
802.11a_5500MHz



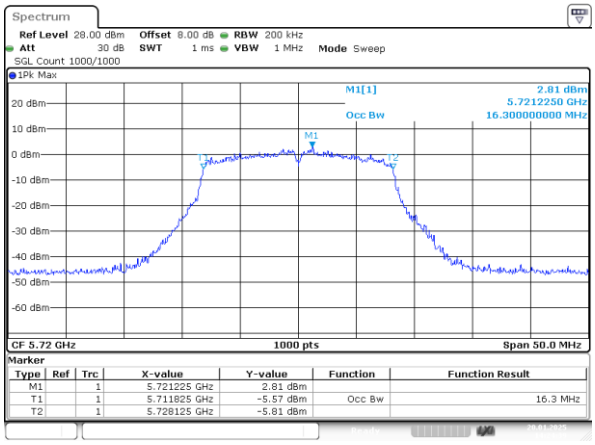
802.11a_5580MHz



802.11a_5700MHz



802.11a_5720MHz



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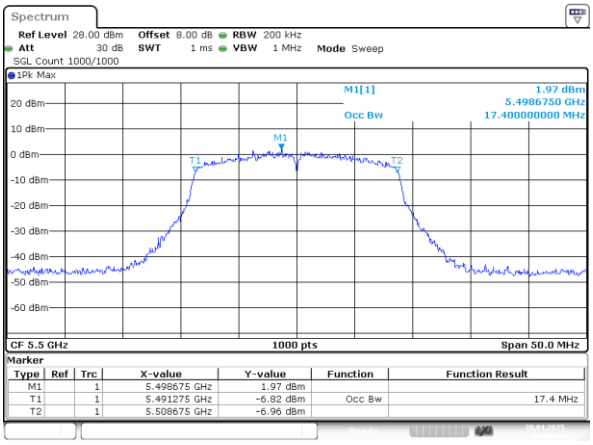

802.11n20_5580MHz