

FCC Test Report

Report No. : 1812C60472012503

Applicant : Shenzhen Kaadas Intelligent Technology Co., Ltd.

Address : Floor 11, Building B2, Phase 2, Creative City,
Xiandong Road, Xili Community, Xili
Street, Nanshan District, Shenzhen, Guangdong,
China

Product Name : 3D Face Recognition Door Lock

Report Date : 2026-09-22



Shenzhen Anbotek Compliance Laboratory Limited

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TEST REPORT

Applicant : Shenzhen Kaadas Intelligent Technology Co., Ltd.

Manufacturer : Shenzhen Kaadas Intelligent Technology Co., Ltd.

Product Name : 3D Face Recognition Door Lock

Model No. : VE037F, VE037F-L,VE037F-H,VE037F-K

Trade Mark : Veise

Rating(s) : Input: DC 7.2V (by DC 7.2V,4750mAh battery)

**Test Standard(s) : 47 CFR Part 15.249
ANSI C63.10-2020+Cor.1-2023+C63.10a-2024+Errata to C63.10a-2024**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with above listed standard(s) requirements. This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

Date of Receipt: 2026-08-18

Date of Test: 2026-08-19 to 2026-09-10

Prepared By:

Polly Mo

(Polly Mo)

Approved & Authorized Signer:

Jules Guo

(Jules Guo)

Revision History

Report Version	Description	Issued Date
R00	Original Issue.	2026-09-22

1. General Information

1.1. Client Information

Applicant	:	Shenzhen Kaadas Intelligent Technology Co., Ltd.
Address	:	Floor 11, Building B2, Phase 2, Creative City, Xiandong Road, Xili Community, Xili Street,Nanshan District, Shenzhen, Guangdong, China
Manufacturer	:	Shenzhen Kaadas Intelligent Technology Co., Ltd.
Address	:	Floor 11, Building B2, Phase 2, Creative City, Xiandong Road, Xili Community, Xili Street,Nanshan District, Shenzhen, Guangdong, China
Factory	:	Shenzhen Kaadas Intelligent Technology Co., Ltd.
Address	:	Floor 11, Building B2, Phase 2, Creative City, Xiandong Road, Xili Community, Xili Street,Nanshan District, Shenzhen, Guangdong, China

1.2. Description of Device (EUT)

Product Name	:	3D Face Recognition Door Lock
Model No.	:	VE037F, VE037F-L,VE037F-H,VE037F-K (Note: All samples are the same except the model number and accessories, so we prepare "VE037F" for test only.)
Trade Mark	:	Veise
Test Power Supply	:	AC 120V/60Hz for Adapter, DC 7.2V battery inside
Test Sample No.	:	1-2-1(Normal Sample), 1-2-2(Engineering Sample)
Adapter	:	N/A
RF Specification		
Operation Frequency	:	5739.7MHz~5847.2MHz
Number of Channel	:	3
Modulation Type	:	GFSK
Antenna Type	:	PCB On-board Antenna
Antenna Gain(Peak)	:	2.6dBi
Remark: (1) All of the RF specification are provided by customer. (2) For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.		

1.3. Auxiliary Equipment Used During Test

Title	Manufacturer	Model No.	Serial No.
Xiaomi 33W adapter	Xiaomi	MDY-11-EX	SA62212LA04358J

1.4. Operation channel list

Operation Band:

Channel	Frequency (MHz)
01	5739.7
02	5799.3
03	5847.2

1.5. Description of Test Mode(s)

Test Mode(s)	Description(s)
TM1	Keep the EUT in 5.8G radar transmission mode.

1.6. Measurement Uncertainty

Parameter	Uncertainty
Conducted emissions (AMN 150kHz~30MHz)	2.8dB
Occupied Bandwidth	552Hz
Radiated spurious emissions (above 1GHz)	1G-6GHz: 4.64dB; 6G-18GHz: 4.82dB 18G-40GHz: 5.62dB
Radiated emissions (Below 30MHz)	3.14dB
Radiated spurious emissions (30MHz~1GHz)	Horizontal: 4.44dB; Vertical: 4.82dB
The measurement uncertainty and decision risk evaluated according to AB/WI-RF-F-032. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.	

1.7. Additional Instructions

Power level setup in software:Wi-Fi Test Tool V1.9.0.

Mode	Channel(MHz)	Power level	Transmitting type
5.8G	5739.7	default	data pack TX
5.8G	5799.3	default	data pack TX
5.8G	5847.2	default	data pack TX

1.8. Test Summary

Test Items	Test Mode(s)	Status
Antenna requirement	/	P
Conducted Emission at AC power line	Mode1	P
Occupied Bandwidth	Mode1	P
Band edge emissions (Radiated)	Mode1	P
Emissions in restricted frequency bands (below 1GHz)	Mode1	P
Emissions in restricted frequency bands (above 1GHz)	Mode1	P
Note: P: Pass N: N/A, not applicable		

1.9. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.:279531

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 279531.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.
 Sogood Industrial Zone Laboratory & 1/F. of Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Subdistrict, Bao'an District, Shenzhen, Guangdong, China.

1.10. Disclaimer

1. The test report is invalid if not marked with the signatures of the persons responsible for preparing and approving the test report.
2. The test report is invalid if there is any evidence and/or falsification.
3. The effect that the results relate only to the items tested.
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6. The authenticity of the information provided by the customer is the responsibility of the customer and the laboratory is not responsible for its authenticity.
7. The data in this report will be synchronized with the corresponding national market supervision and management departments and cross-border e-commerce platforms as required by regulatory agencies.
8. Unless otherwise specified, use the binary decision rule of simple acceptance ($w=0$) for conformity determination with reference to ILAC-G8:09/2019.

1.11. Test Equipment List

Conducted Emission at AC power line					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	L.I.S.N. Artificial Mains Network	Rohde & Schwarz	ENV216	2026-06-08	2027-06-07
2	Software Name EZ-EMC	Farad Technology	ANB-03A	/	/
3	EMI Test Receiver(CE2#)	Rohde & Schwarz	ESCI3	2025-12-29	2026-12-28
4	Three Phase V-type Artificial Power Network LISN 200A	EMtrace	PWL-50-3200A	2025-12-29	2026-12-28
5	10dB Attenuator	Emtrace	10dB100W	2025-12-29	2026-12-28
6	Pulse limiter	EMtrace	PL00903-2#	2025-12-29	2026-12-28

Occupied Bandwidth					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	MXG RF Vector Signal Generator	Agilent	N5182A	2025-12-29	2026-12-28
2	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-HWHS80B	2026-06-08	2027-06-07
3	Signal Generator	Agilent	E4421B	2025-12-29	2026-12-28
4	DC Power Supply	IVYTECH	IV3605	2026-06-08	2027-06-07
5	RF Control Unit	Tonscend	JS0806-2	2026-06-08	2027-06-07
6	Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	2025-12-29	2026-12-28
7	MXA Spectrum Analysis	KEYSIGHT	N9020A	2025-12-29	2026-12-28
8	RF Test software	Toscend	JS1120-3	/	/

Band edge emissions (Radiated)					
Emissions in frequency bands (above 1GHz)					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	2025-12-30	2026-12-29
2	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	2025-12-30	2026-12-29
3	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	2025-10-27	2028-10-26
4	EMI Test Software EZ-EMC	SHURPLE	N/A	/	/
5	Horn Antenna	A-INFO	LB-180400-KF	2024-01-22	2027-01-21
6	Spectrum Analyzer	Rohde & Schwarz	FSV40-N	2025-12-29	2026-12-28
7	Amplifier	Talent Microwave	TLLA18G40G-53-30	2026-01-05	2027-01-04

Emissions in frequency bands (below 1GHz)					
Item	Equipment	Manufacturer	Model No.	Last Cal.	Cal.Due Date
1	EMI Test Receiver(RE2/3#)	Rohde & Schwarz	ESR26	2025-12-30	2026-12-29
2	Pre-amplifier	SONOMA	310N	2025-12-30	2026-12-29
3	Bilog Broadband Antenna	Schwarzbeck	VULB9163	2025-10-26	2028-10-25
4	EMI Preamplifier	SKET Electronic	LNPA-0118G-45	2025-12-30	2026-12-29
5	Double Ridged Horn Antenna	SCHWARZBECK	BBHA 9120D	2025-10-27	2028-10-26
6	Loop Antenna (9K-30M)	Schwarzbeck	FMZB1519B	2026-06-24	2029-06-23
7	EMI Test Software EZ-EMC	SHURPLE	N/A	/	/
8	MXG RF Vector Signal Generator	Agilent	N5182A	2025-12-29	2026-12-28
9	Constant Temperature Humidity Chamber	ZHONGJIAN	ZJ-HWHS80B	2026-06-08	2027-06-07
10	Wideband Radio Communication Tester	Rohde & Schwarz	CMW 500	2025-12-29	2026-12-28
11	High-Pass Filter	CDKMV	ZHPF-M3.5-18G-3834	2025-12-30	2026-12-29
12	MXA Spectrum Analysis	KEYSIGHT	N9020A	2026-06-08	2027-06-07

2. Antenna requirement

Test Requirement:	Refer to 47 CFR Part 15.203, 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 shall be considered sufficient to comply with the provisions of this section.
Test Method:	---

2.1. Conclusion

The antenna is a PCB On-board Antenna which permanently attached, and the best case gain of the antenna is 2.6dBi . It complies with the standard requirement.

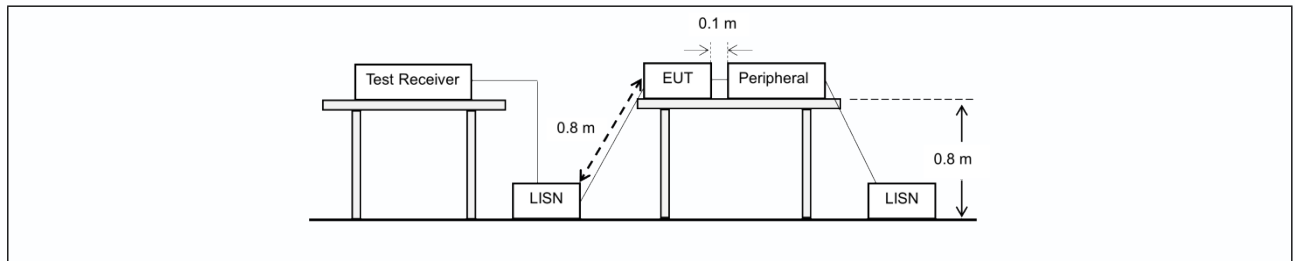
3. Conducted Emission at AC power line

Test Requirement:	Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).		
Test Limit:	Frequency of emission (MHz)	Conducted limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	5-30	60	50
	*Decreases with the logarithm of the frequency.		
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2		
Procedure:	Refer to ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices		

3.1. EUT Operation

Operating Environment:	
Test mode:	1:TM1:Keep the EUT in 5.8G radar transmission mode.

3.2. Test Setup

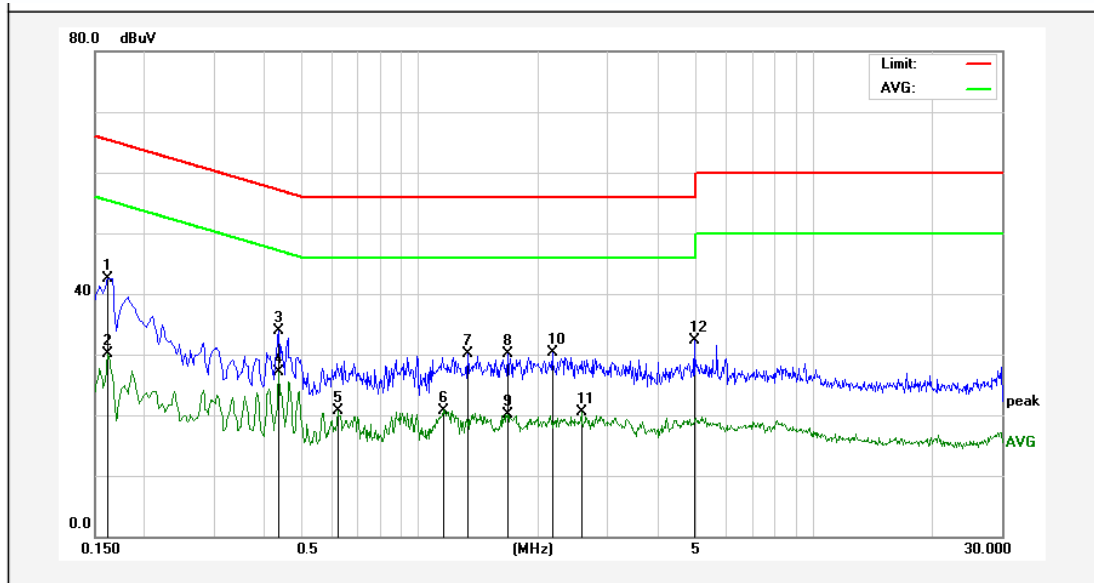


3.3. Test Data

Temperature:	23.4 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Line / Band: 5.8G / BW: 1 / CH: L

Test Power Supply: DC 5V from Adapter input AC120V/60Hz

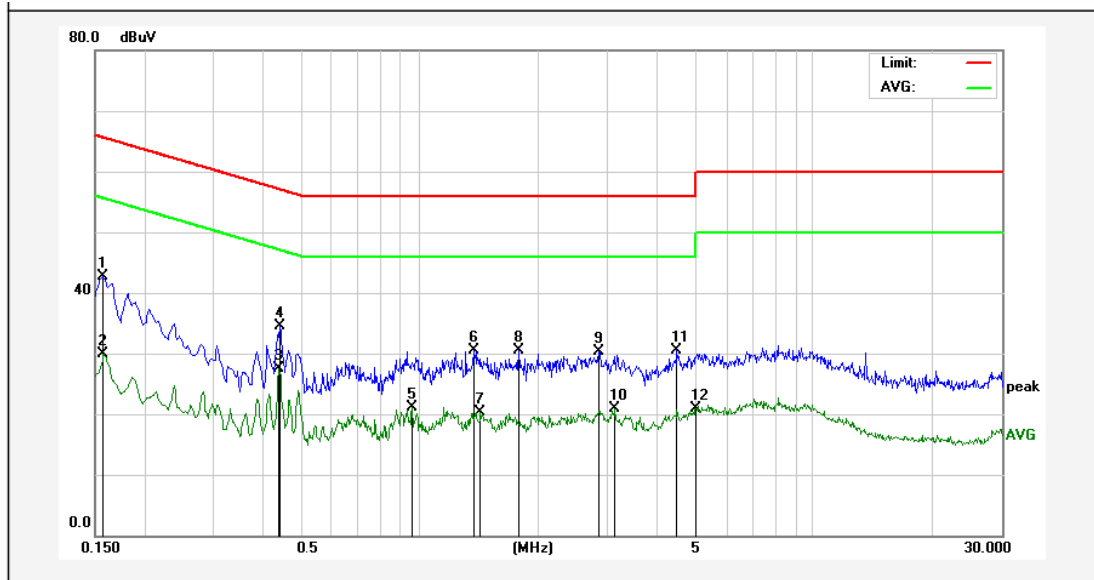


No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Over Limit (dB)	Detector	Remark
1	0.1620	22.91	19.66	42.57	65.36	-22.79	QP	
2	0.1620	10.50	19.66	30.16	55.36	-25.20	AVG	
3	0.4380	14.18	19.79	33.97	57.10	-23.13	QP	
4	0.4380	7.31	19.79	27.10	47.10	-20.00	AVG	
5	0.6220	0.87	19.81	20.68	46.00	-25.32	AVG	
6	1.1500	0.96	19.84	20.80	46.00	-25.20	AVG	
7	1.3300	10.34	19.84	30.18	56.00	-25.82	QP	
8	1.6780	10.37	19.83	30.20	56.00	-25.80	QP	
9	1.6780	0.23	19.83	20.06	46.00	-25.94	AVG	
10	2.1780	10.48	19.83	30.31	56.00	-25.69	QP	
11	2.5740	0.63	19.82	20.45	46.00	-25.55	AVG	
12	4.9580	12.57	19.79	32.36	56.00	-23.64	QP	

Temperature:	23.4 °C	Humidity:	49 %	Atmospheric Pressure:	101 kPa
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TM1 / Line: Neutral / Band: 5.8G / BW: 1 / CH: L

Test Power Supply: DC 5V from Adapter input AC120V/60Hz



No.	Freq. (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Over Limit (dB)	Detector	Remark
1	0.1580	23.13	19.65	42.78	65.56	-22.78	QP	
2	0.1580	10.25	19.65	29.90	55.56	-25.66	AVG	
3	0.4380	7.78	19.79	27.57	47.10	-19.53	AVG	
4	0.4420	14.67	19.79	34.46	57.02	-22.56	QP	
5	0.9620	1.25	19.84	21.09	46.00	-24.91	AVG	
6	1.3740	10.69	19.83	30.52	56.00	-25.48	QP	
7	1.4299	0.46	19.83	20.29	46.00	-25.71	AVG	
8	1.7860	10.68	19.83	30.51	56.00	-25.49	QP	
9	2.8540	10.55	19.82	30.37	56.00	-25.63	QP	
10	3.1260	1.00	19.82	20.82	46.00	-25.18	AVG	
11	4.4780	10.69	19.79	30.48	56.00	-25.52	QP	
12	4.9860	1.09	19.79	20.88	46.00	-25.12	AVG	

Note:Result(dBμV)=Reading(dBμV)+Factor(dB);
Over Limit(dB)=Result(dBμV)-Limit(dBμV)

4. Occupied Bandwidth

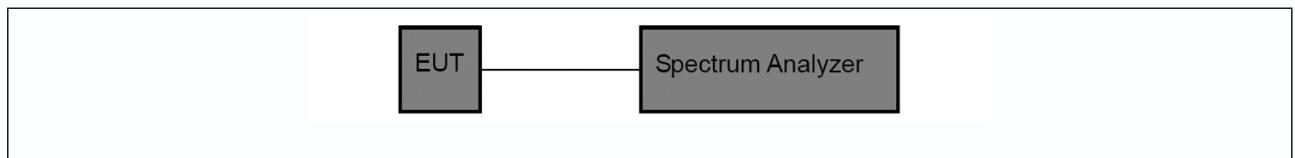
Test Requirement:	47 CFR 15.215(c)
Test Limit:	Refer to 47 CFR 15.215(c), intentional radiators operating under the alternative provisions to the general emission limits, as contained in §§ 15.217 through 15.257 and in subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024, section 6.9.2
Procedure:	a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW. b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times RBW, unless otherwise specified by the applicable requirement. c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2. d) Steps a) through c) might require iteration to adjust within the specified tolerances. e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value. f) Set detection mode to peak and trace mode to max hold. g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value). h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument. i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j). j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the

	emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth. k) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).
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4.1. EUT Operation

Operating Environment:	
Test mode:	1:TM1:Keep the EUT in 5.8G radar transmission mode.

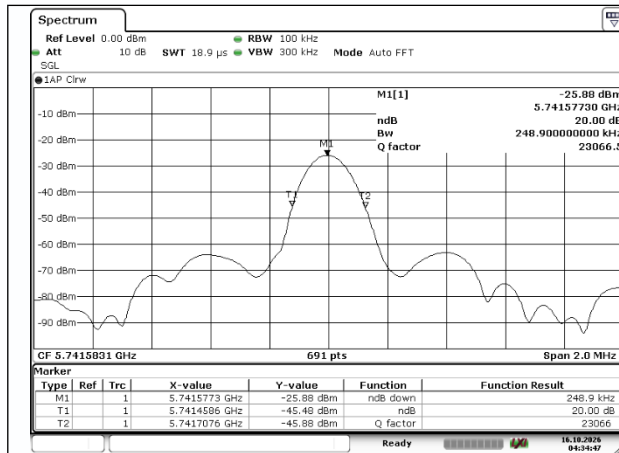
4.2. Test Setup



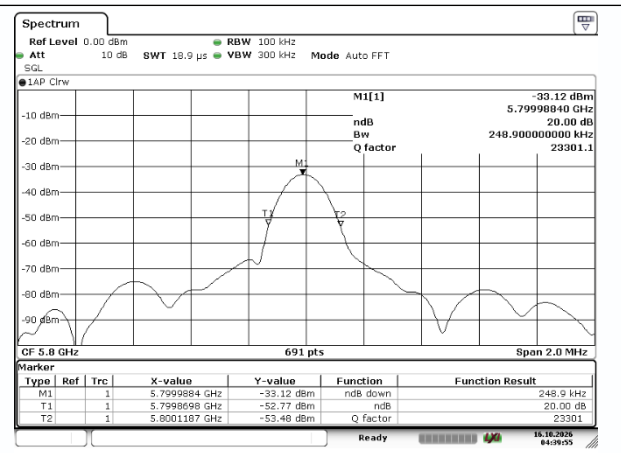
4.3. Test Data

Temperature:	25 °C	Humidity:	62 %	Atmospheric Pressure:	100.2 kPa
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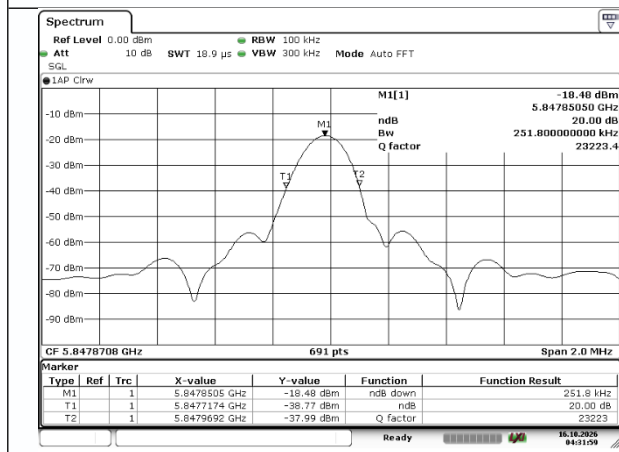
Channel	Bandwidth (kHz)	Result
Low	248.9	PASS
Middle	248.9	PASS
High	251.8	PASS



Lowest Channel



Middle Channel



Highest Channel

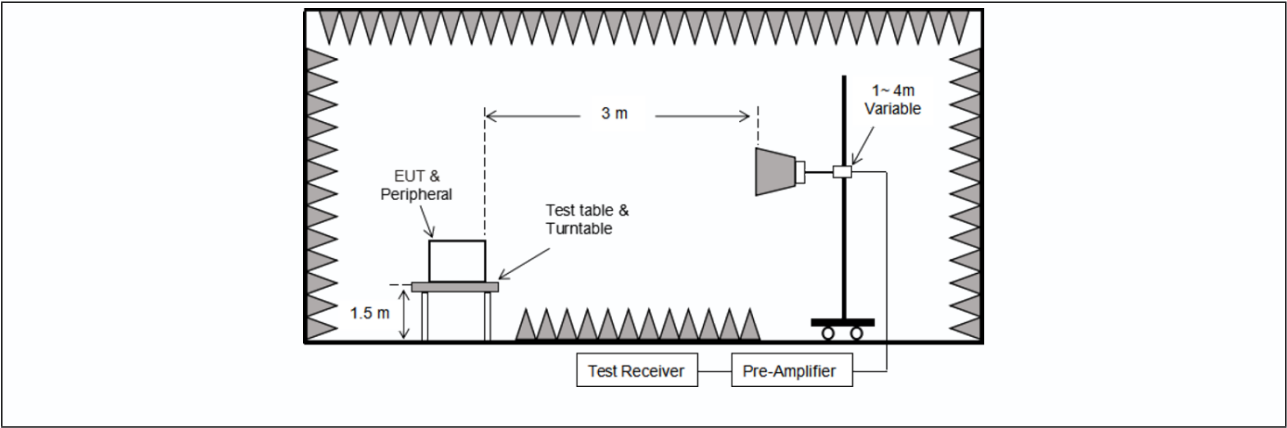
5. Band edge emissions (Radiated)

Test Requirement:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.		
Test Limit:	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.		
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
	0.009-0.490	2400/F(kHz)	300
	0.490-1.705	24000/F(kHz)	30
	1.705-30.0	30	30
	30-88	100 **	3
	88-216	150 **	3
	216-960	200 **	3
	Above 960	500	3
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.			
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.6.4		
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.6.4		

5.1. EUT Operation

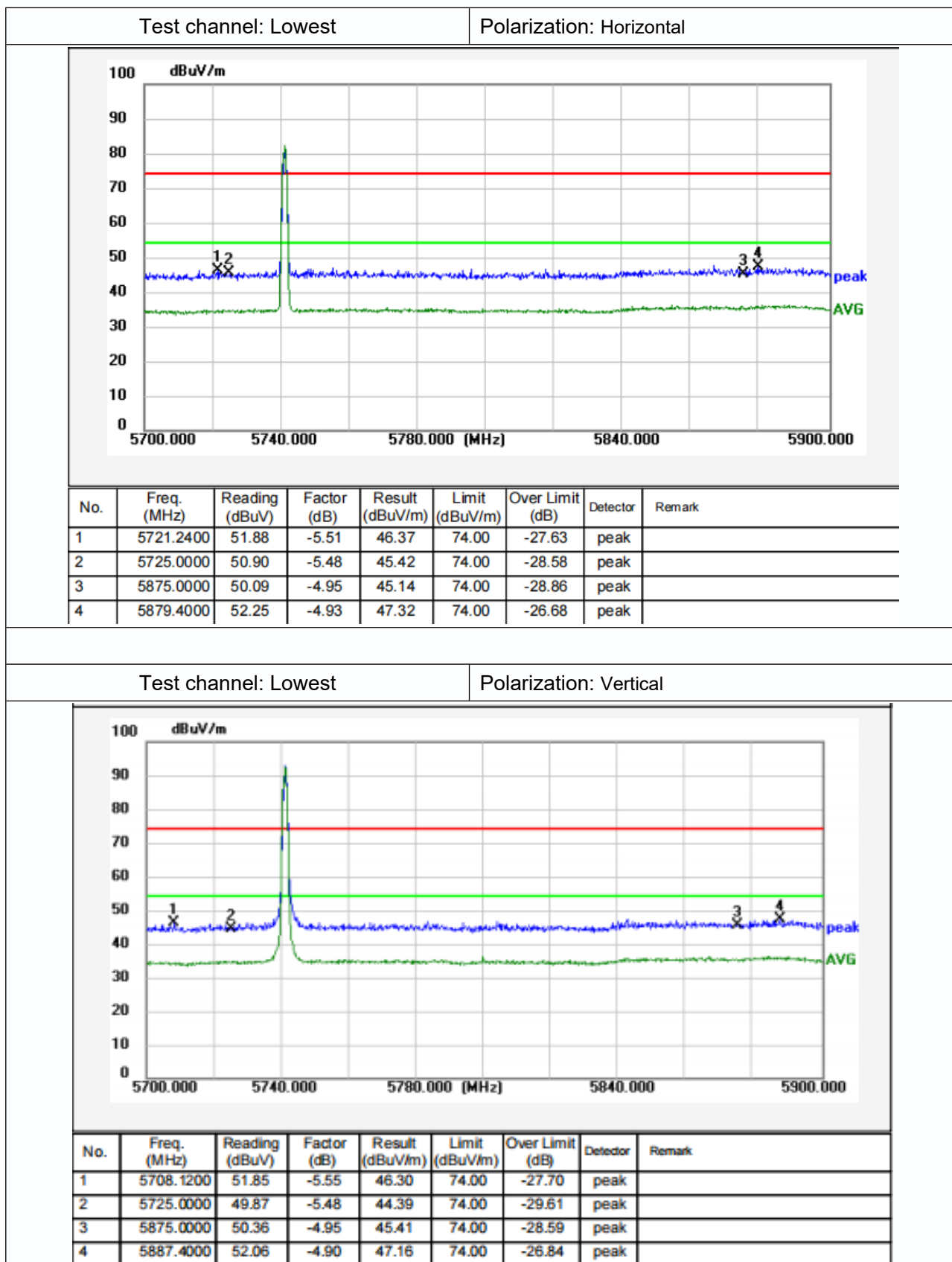
Operating Environment:	
Test mode:	1:TM1:Keep the EUT in 5.8G radar transmission mode.

5.2. Test Setup



5.3. Test Data

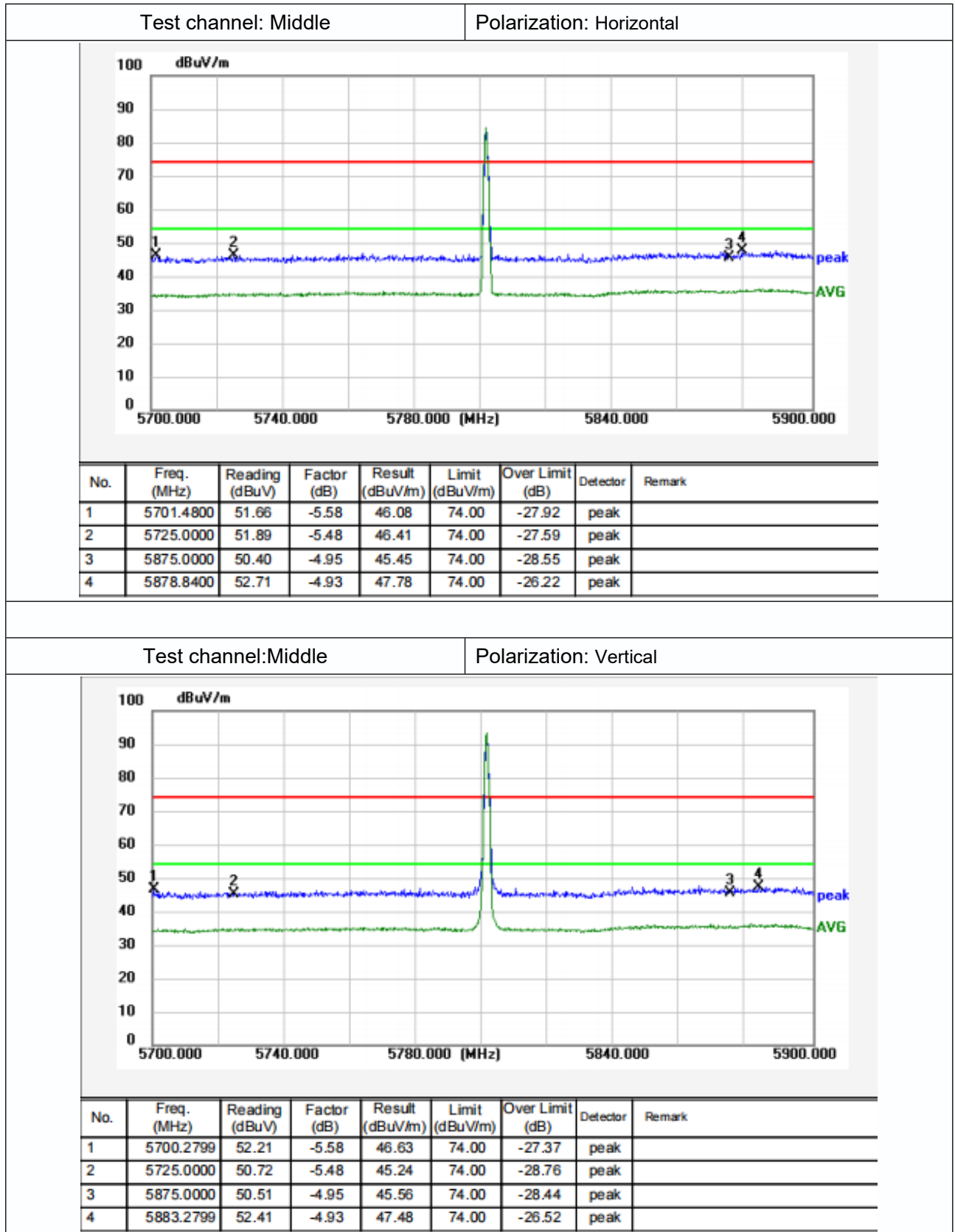
Temperature:	25 °C	Humidity:	62 %	Atmospheric Pressure:	100.2 kPa
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Shenzhen Anbotek Compliance Laboratory Limited

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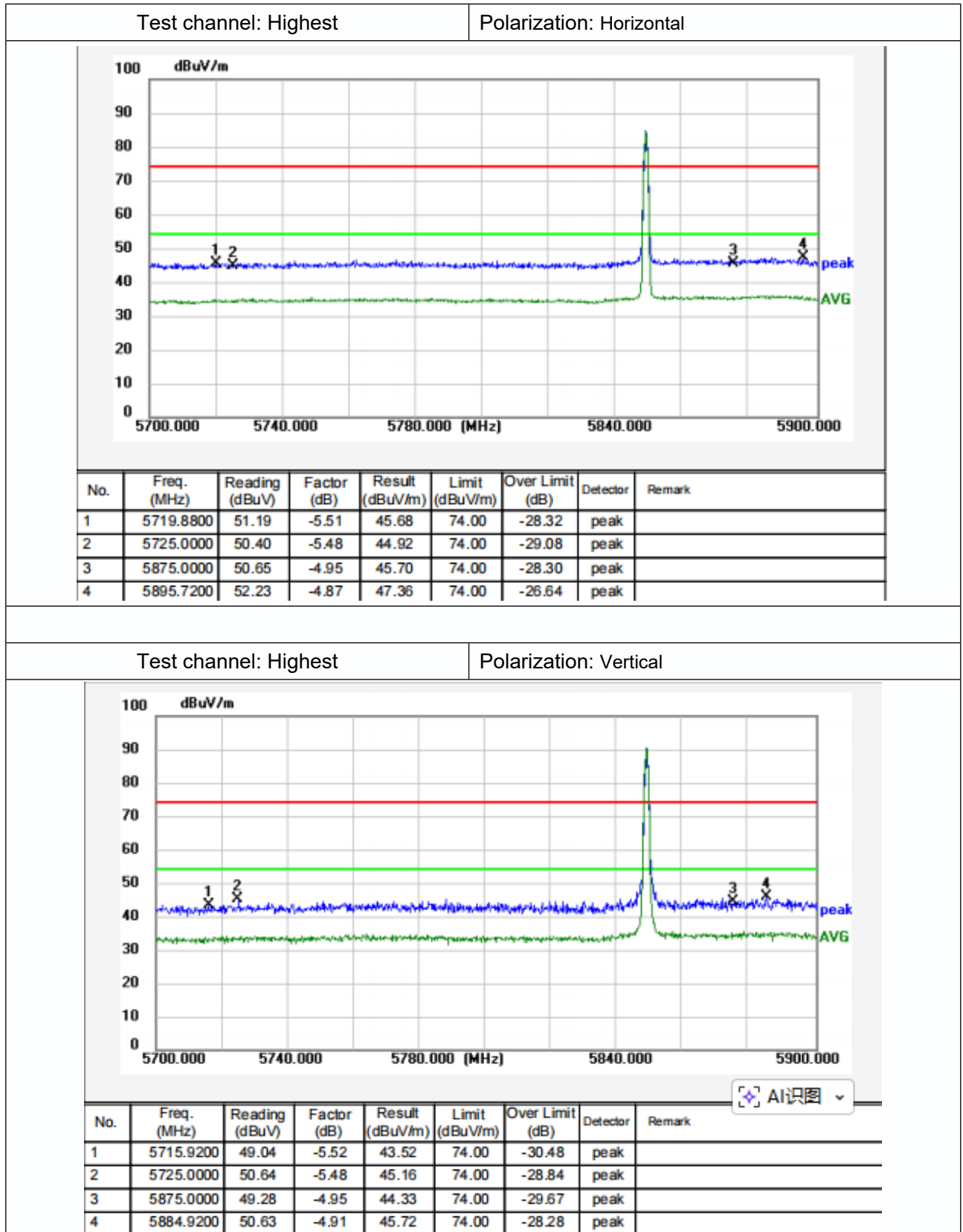
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6. Emissions in restricted frequency bands (below 1GHz)

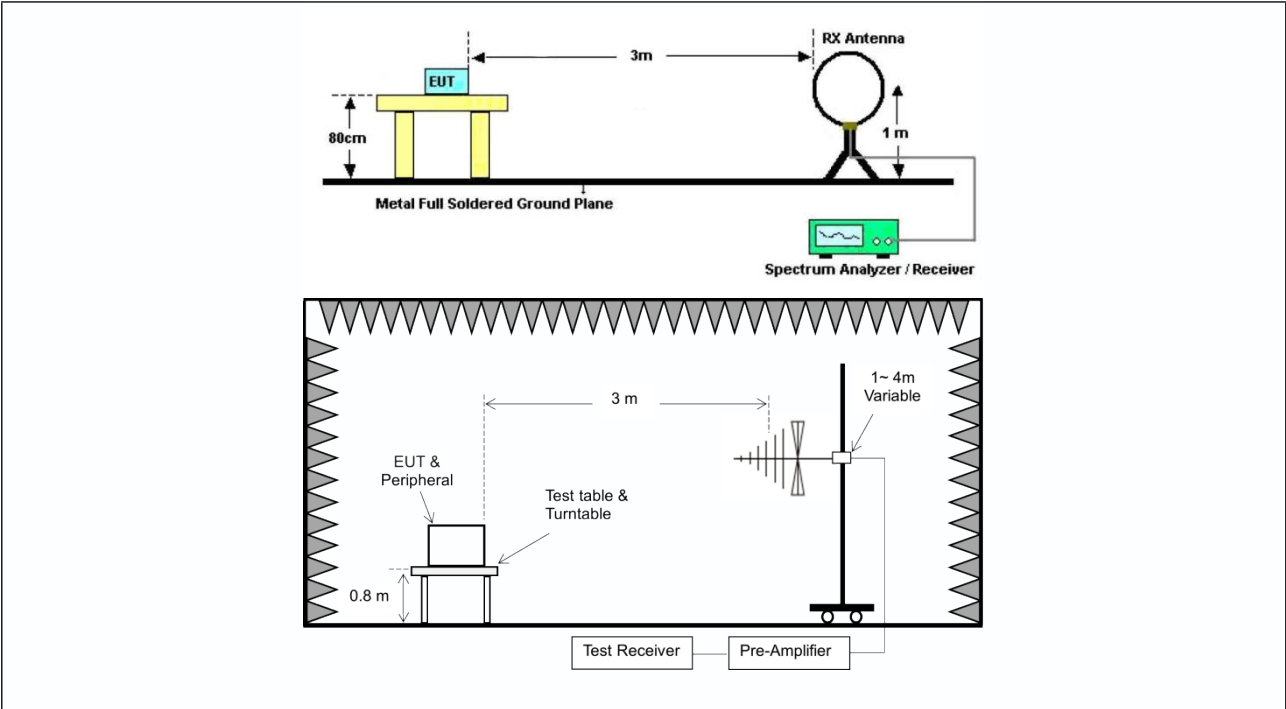
Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)																										
Test Limit:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:																										
	<table><tr><th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr><tr><td>902-928 MHz</td><td>50</td><td>500</td></tr><tr><td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr><tr><td>5725-5875 MHz</td><td>50</td><td>500</td></tr><tr><td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr></table>			Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902-928 MHz	50	500	2400-2483.5 MHz	50	500	5725-5875 MHz	50	500	24.0-24.25 GHz	250	2500									
	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)																								
	902-928 MHz	50	500																								
	2400-2483.5 MHz	50	500																								
	5725-5875 MHz	50	500																								
	24.0-24.25 GHz	250	2500																								
	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.																										
	<table><tr><th>Frequency (MHz)</th><th>Field strength (microvolts/meter)</th><th>Measurement distance (meters)</th></tr><tr><td>0.009-0.490</td><td>2400/F(kHz)</td><td>300</td></tr><tr><td>0.490-1.705</td><td>24000/F(kHz)</td><td>30</td></tr><tr><td>1.705-30.0</td><td>30</td><td>30</td></tr><tr><td>30-88</td><td>100 **</td><td>3</td></tr><tr><td>88-216</td><td>150 **</td><td>3</td></tr><tr><td>216-960</td><td>200 **</td><td>3</td></tr><tr><td>Above 960</td><td>500</td><td>3</td></tr></table>			Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)	0.009-0.490	2400/F(kHz)	300	0.490-1.705	24000/F(kHz)	30	1.705-30.0	30	30	30-88	100 **	3	88-216	150 **	3	216-960	200 **	3	Above 960	500	3
	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																								
0.009-0.490	2400/F(kHz)	300																									
0.490-1.705	24000/F(kHz)	30																									
1.705-30.0	30	30																									
30-88	100 **	3																									
88-216	150 **	3																									
216-960	200 **	3																									
Above 960	500	3																									
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.																											
In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.																											
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500																											

	millivolts/meter at 3 meters along the antenna azimuth.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.5

6.1. EUT Operation

Operating Environment:	
Test mode:	1:TM1:Keep the EUT in 5.8G radar transmission mode.

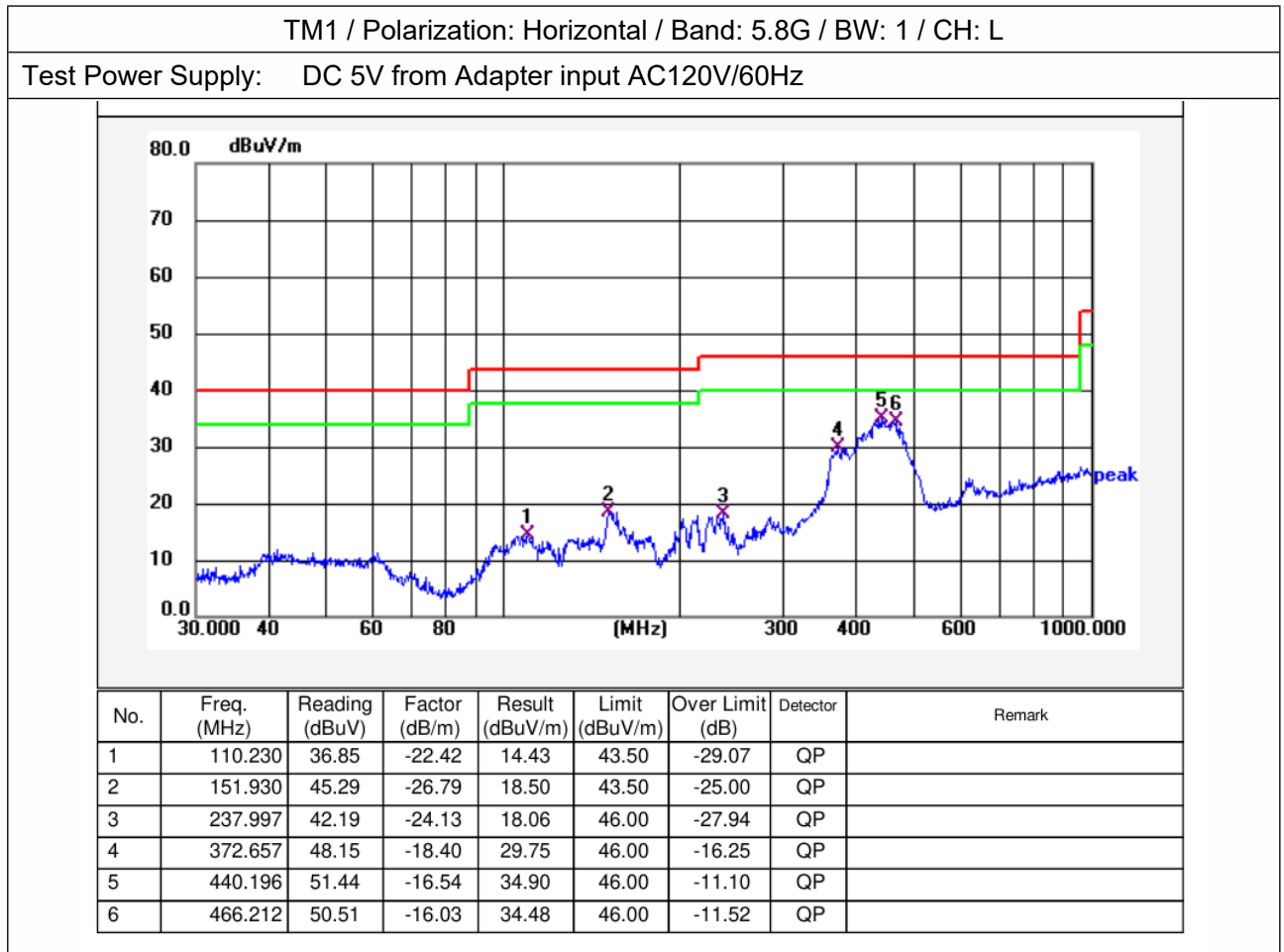
6.2. Test Setup



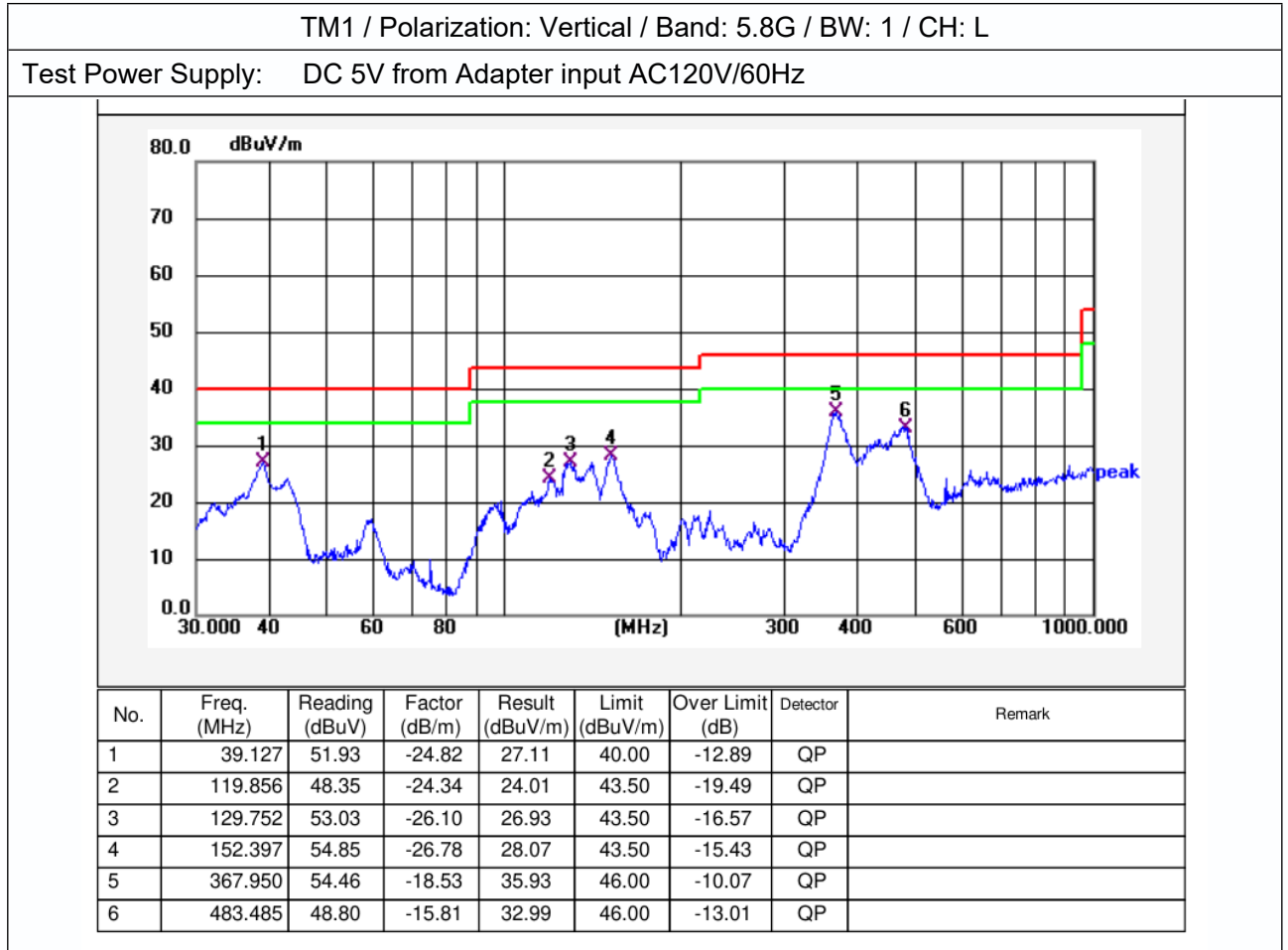
6.3. Test Data

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Temperature:	25.8 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
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Temperature:	25.8 °C	Humidity:	57 %	Atmospheric Pressure:	101 kPa
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Result(dBμV)=Reading(dBμV)+Factor(dB);
Over Limit(dB)=Result(dBμV)-Limit(dBμV)

7. Emissions in restricted frequency bands (above 1GHz)

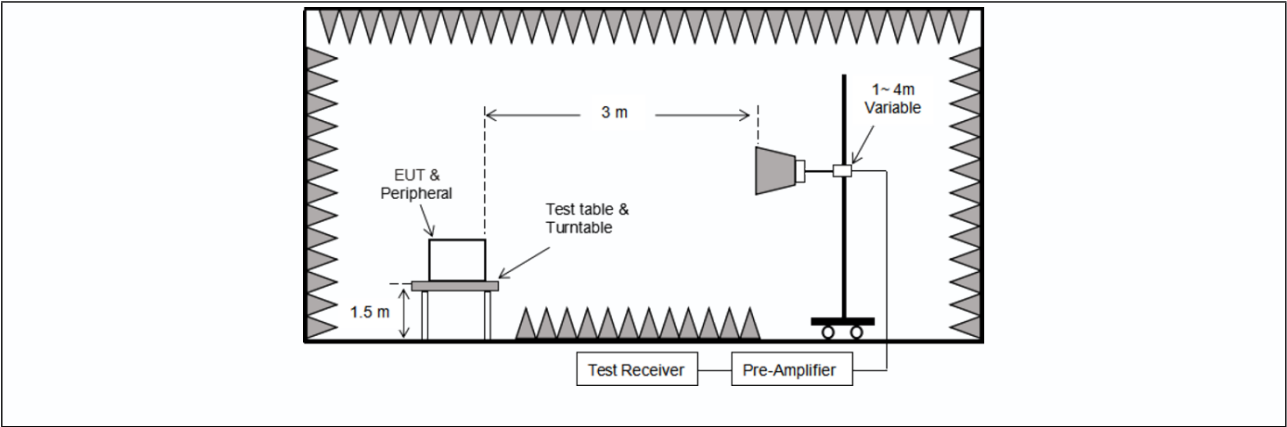
Test Requirement:	47 CFR 15.249(a) 47 CFR 15.249(d) 47 CFR 15.249(e)																										
Test Limit:	Except as provided in paragraph (b) of this section, the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:																										
	<table><tr><th>Fundamental frequency</th><th>Field strength of fundamental (millivolts/meter)</th><th>Field strength of harmonics (microvolts/meter)</th></tr><tr><td>902-928 MHz</td><td>50</td><td>500</td></tr><tr><td>2400-2483.5 MHz</td><td>50</td><td>500</td></tr><tr><td>5725-5875 MHz</td><td>50</td><td>500</td></tr><tr><td>24.0-24.25 GHz</td><td>250</td><td>2500</td></tr></table>			Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)	902-928 MHz	50	500	2400-2483.5 MHz	50	500	5725-5875 MHz	50	500	24.0-24.25 GHz	250	2500									
	Fundamental frequency	Field strength of fundamental (millivolts/meter)	Field strength of harmonics (microvolts/meter)																								
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	Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in § 15.209, whichever is the lesser attenuation.																										
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	Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)																								
0.009-0.490	2400/F(kHz)	300																									
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1.705-30.0	30	30																									
30-88	100 **	3																									
88-216	150 **	3																									
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** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241.																											
In the emission table above, the tighter limit applies at the band edges. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.																											
As shown in § 15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a) and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For point-to-point operation under paragraph (b) of this section, the peak field strength shall not exceed 2500																											

	millivolts/meter at 3 meters along the antenna azimuth.
Test Method:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.6
Procedure:	ANSI C63.10-2020 + Cor. 1-2023+C63.10a-2024 + Errata to C63.10a-2024 section 6.6

7.1. EUT Operation

Operating Environment:	
Test mode:	1:TM1:Keep the EUT in 5.8G radar transmission mode.

7.2. Test Setup



7.3. Test Data

Temperature:	25 °C	Humidity:	62 %	Atmospheric Pressure:	100.2 kPa
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Test channel: Lowest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11479.40	29.36	15.27	44.63	74.00	-29.37	Vertical
17219.10	27.59	18.09	45.68	74.00	-28.32	Vertical
22958.80	28.71	23.76	52.47	74.00	-21.53	Vertical
28698.50	*			74.00		Vertical
34438.20	*			74.00		Vertical
5739.70	83.91	9.75	93.66	114.00	-20.34	Horizontal
11479.40	25.66	15.27	40.93	74.00	-33.07	Horizontal
17219.10	27.01	18.09	45.10	74.00	-28.90	Horizontal
22958.80	32.03	23.76	55.79	74.00	-18.21	Horizontal
28698.50	*			74.00		Horizontal
34438.20	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
11479.40	15.55	15.27	30.82	54.00	-23.18	Vertical
17219.10	17.13	18.09	35.22	54.00	-18.78	Vertical
22958.80	22.80	23.76	46.56	54.00	-7.44	Vertical
28698.50	*			54.00		Vertical
34438.20	*			54.00		Vertical
5739.70	71.29	9.75	81.04	94.00	-12.96	Horizontal
11479.40	18.36	15.27	33.63	54.00	-20.37	Horizontal
17219.10	19.33	18.09	37.42	54.00	-16.58	Horizontal
22958.80	17.71	23.76	41.47	54.00	-12.53	Horizontal
28698.50	*			54.00		Horizontal
34438.20	*			54.00		Horizontal

Test channel: Middle						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11598.60	30.66	15.27	45.93	74.00	-28.07	Vertical
17397.90	33.12	18.09	51.21	74.00	-22.79	Vertical
23197.20	31.81	23.76	55.57	74.00	-18.43	Vertical
28996.50	*			74.00		Vertical
34795.80	*			74.00		Vertical
5799.30	79.46	9.75	89.21	114.00	-24.79	Horizontal
11598.60	24.40	15.27	39.67	74.00	-34.33	Horizontal
17397.90	30.18	18.09	48.27	74.00	-25.73	Horizontal
23197.20	30.74	23.76	54.50	74.00	-19.50	Horizontal
28996.50	*			74.00		Horizontal
34795.80	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
11598.60	18.30	15.27	33.57	54.00	-20.43	Vertical
17397.90	15.17	18.09	33.26	54.00	-20.74	Vertical
23197.20	16.31	23.76	40.07	54.00	-13.93	Vertical
28996.50	*			54.00		Vertical
34795.80	*			54.00		Vertical
5799.30	73.70	9.75	83.45	94.00	-10.55	Horizontal
11598.60	16.90	15.27	32.17	54.00	-21.83	Horizontal
17397.90	15.20	18.09	33.29	54.00	-20.71	Horizontal
23197.20	17.10	23.76	40.86	54.00	-13.14	Horizontal
28996.50	*			54.00		Horizontal
34795.80	*			54.00		Horizontal

Test channel: Highest						
Peak value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	polarization
11694.40	28.56	15.27	43.83	74.00	-30.17	Vertical
17541.60	26.82	18.09	44.91	74.00	-29.09	Vertical
23388.80	33.13	23.76	56.89	74.00	-17.11	Vertical
29236.00	*			74.00		Vertical
35083.20	*			74.00		Vertical
5847.20	80.82	9.75	90.57	114.00	-23.43	Horizontal
11694.40	28.91	15.27	44.18	74.00	-29.82	Horizontal
17541.60	30.84	18.09	48.93	74.00	-25.07	Horizontal
23388.80	26.12	23.76	49.88	74.00	-24.12	Horizontal
29236.00	*			74.00		Horizontal
35083.20	*			74.00		Horizontal
Average value:						
Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Over Limit (dB)	polarization
11694.40	14.47	15.27	29.74	54.00	-24.26	Vertical
17541.60	17.68	18.09	35.77	54.00	-18.23	Vertical
23388.80	14.69	23.76	38.45	54.00	-15.55	Vertical
29236.00	*			54.00		Vertical
35083.20	*			54.00		Vertical
5847.20	75.43	9.75	85.18	94.00	-8.82	Horizontal
11694.40	17.41	15.27	32.68	54.00	-21.32	Horizontal
17541.60	24.93	18.09	43.02	54.00	-10.98	Horizontal
23388.80	18.12	23.76	41.88	54.00	-12.12	Horizontal
29236.00	*			54.00		Horizontal
35083.20	*			54.00		Horizontal

Remark:

- 1.Result =Reading + Factor
2. “*” means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Pulse Desensitization Correction Factor

Mode	Freq. (MHz)	Pulse Width (ms)	2/Pulse Width (kHz)
5.8G radar Mode	5739.7MHz~5847.2MHz	100	0.02

Remark:

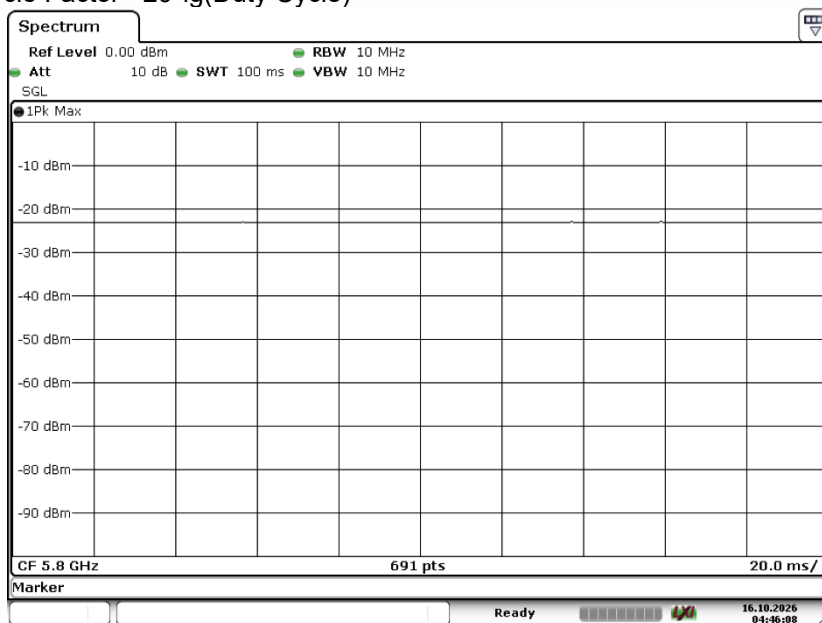
RBW(1000kHz)> 2/Pulse Width, Therefore PDCF is not needed.

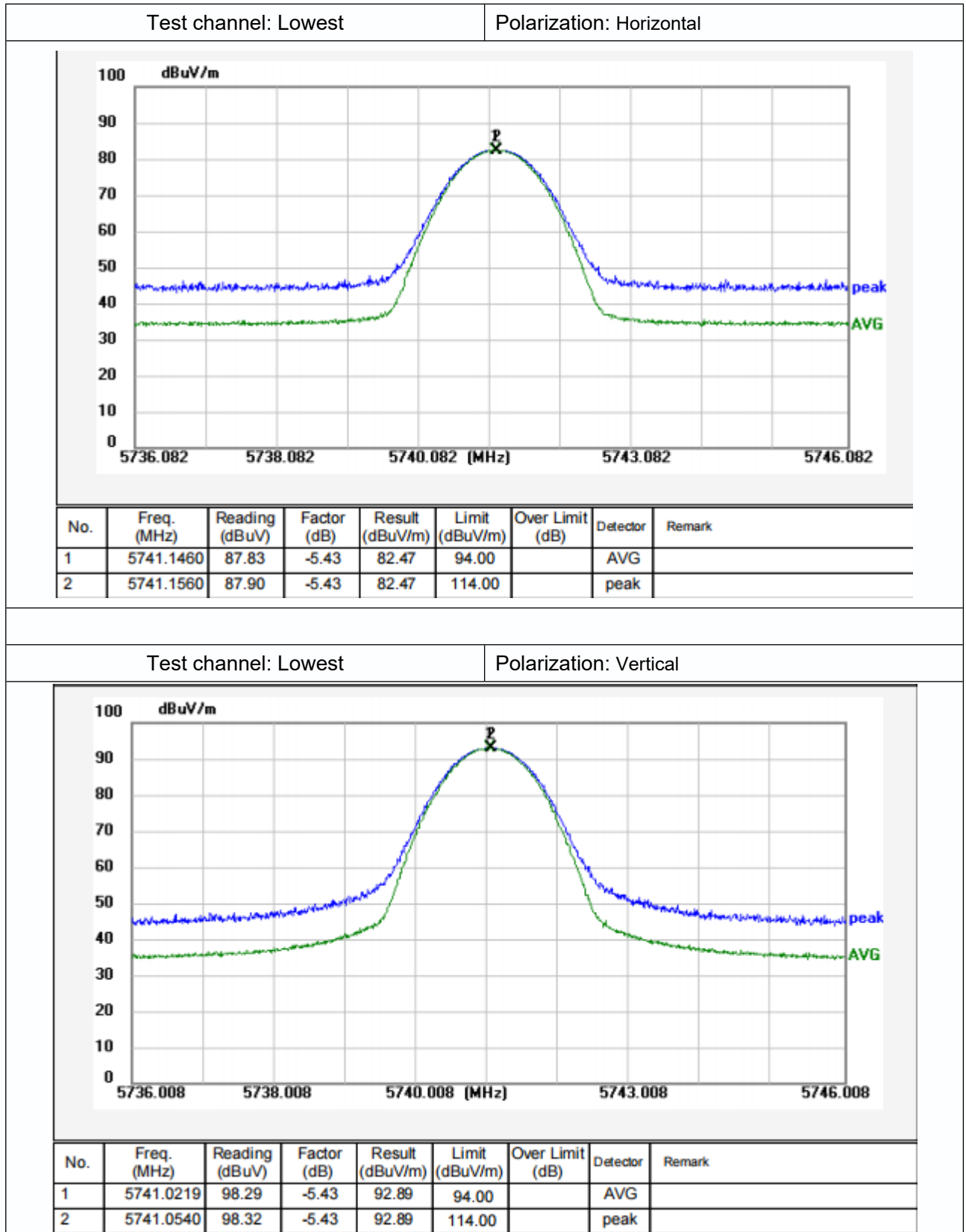
Duty Cycle Factor

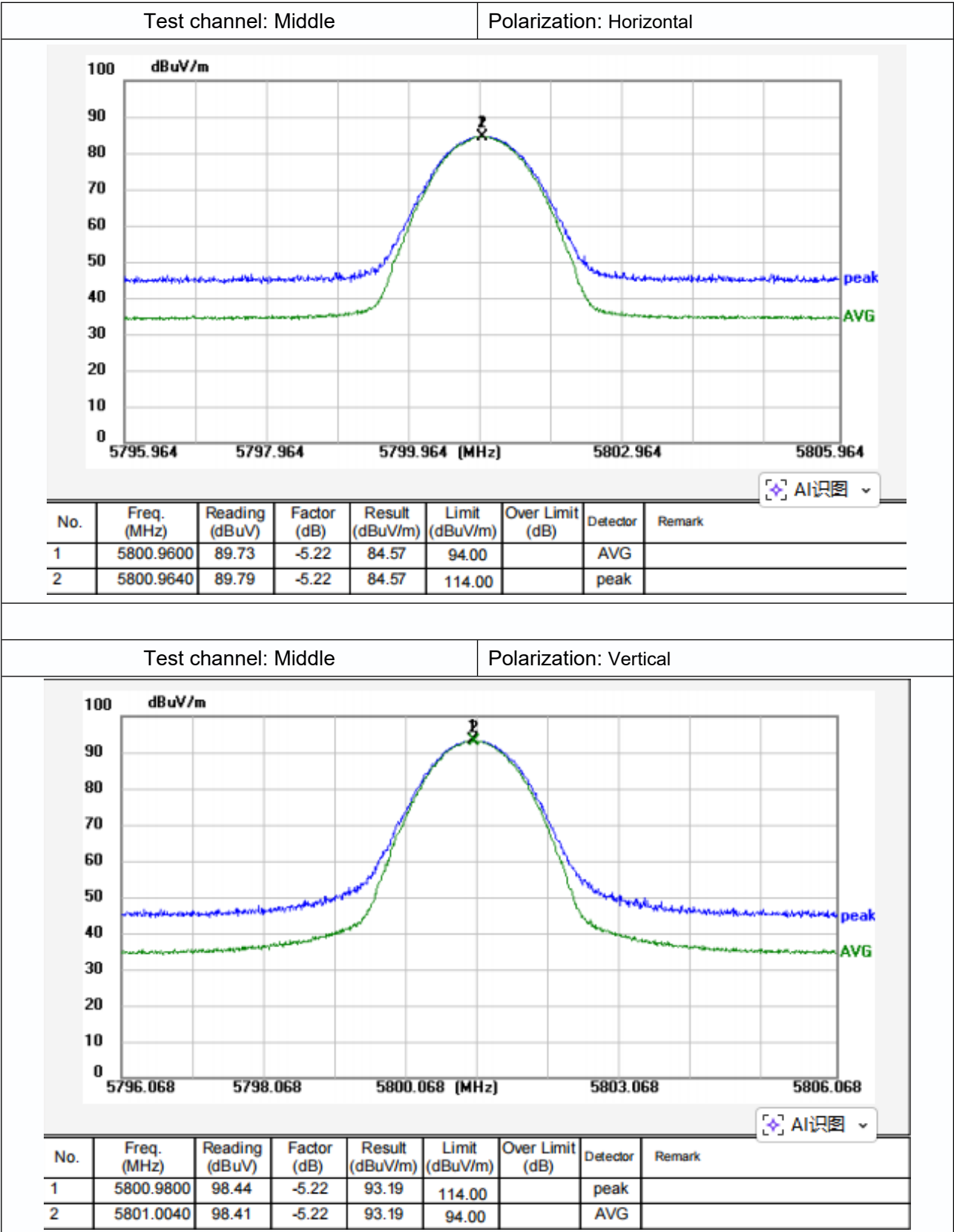
Mode	Freq. (MHz)	Duty Cycle	Duty Cycle Factor
5.8G radar Mode	5739.7MHz~5847.2MHz	100%	0

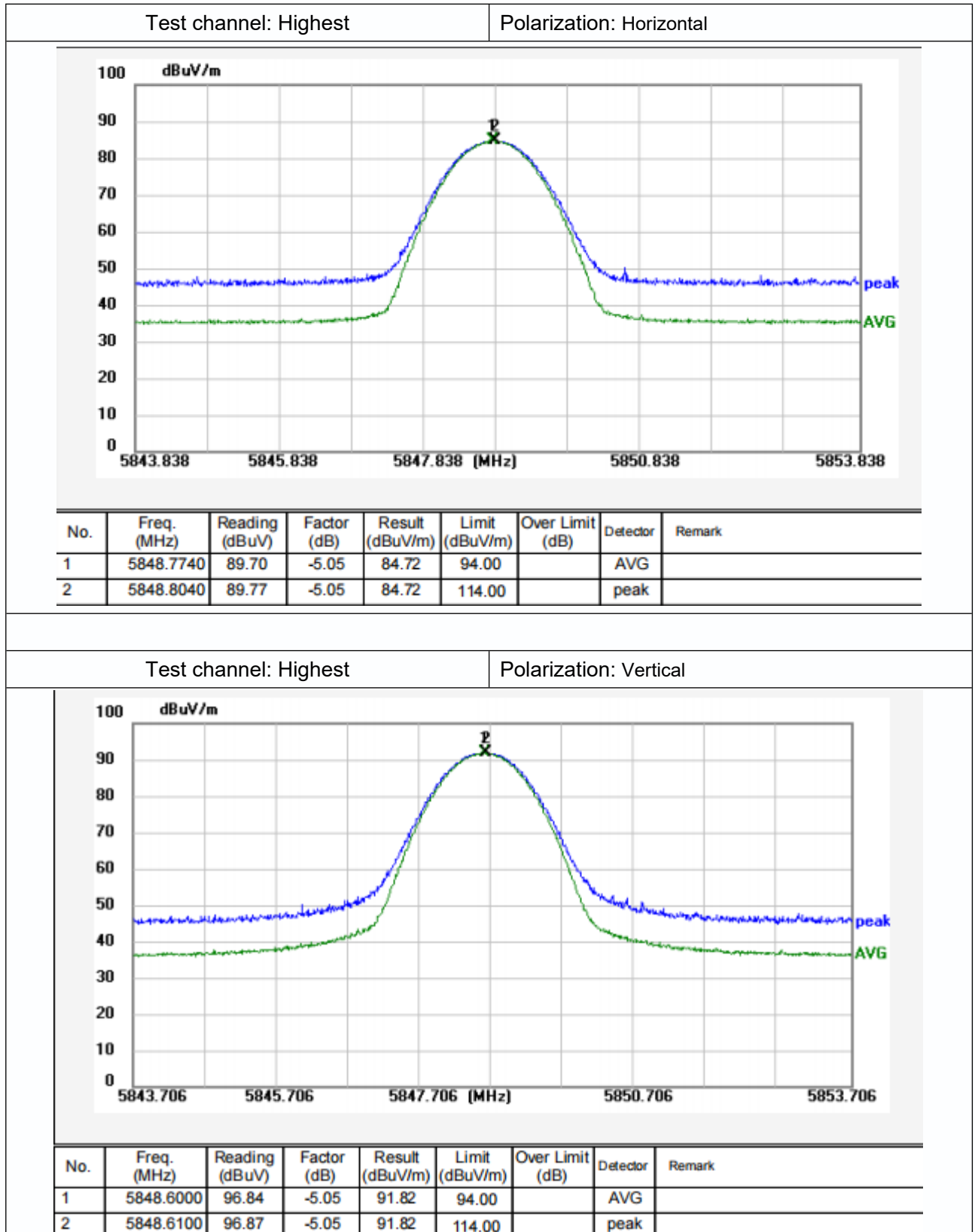
Remark:

1. $T_{on} = T_{on1} * N$
2. $Duty\ Cycle = T_{on} / T_{period}$
3. $Duty\ Cycle\ Factor = 20 * \lg(Duty\ Cycle)$









APPENDIX I -- TEST SETUP PHOTOGRAPH

Please refer to separated files Appendix I -- Test Setup Photograph_RF

APPENDIX II -- EXTERNAL PHOTOGRAPH

Please refer to separated files Appendix II -- External Photograph

APPENDIX III -- INTERNAL PHOTOGRAPH

Please refer to separated files Appendix III -- Internal Photograph

----- End of Report -----

