

Test Report

Applicant : La-Z-Boy Incorporated
Address : One La-Z-Boy Drive Monroe, MI 48162
Product Name : AUDIO TRANSMITTER
Brand Mark : La-Z-Boy
Model : Surround
FCC ID : 2BWEC-SURROUND
Report Number : BLA-EMC-202605-A24-01
Date of Receipt : May 21, 2026
Date of Test : May 21, 2026 to June 4, 2026
Test Standard : 47 CFR Part 15, Subpart C 15.249
Test Result : Pass

Compiled by: *Hugh*Review by: *Xavier*Approved by: *Blue Zheng*
Issued Date: June 4, 2026**BlueAsia Technical Services(Shenzhen) Co., Ltd.**

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China



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Revise Record

Version No.	Date	Description
01	June 4, 2026	Original

1 General information

1.1 General information

Applicant	La-Z-Boy Incorporated
Address	One La-Z-Boy Drive Monroe, MI 48162
Manufacturer	La-Z-Boy Incorporated
Address	One La-Z-Boy Drive Monroe, MI 48162
Factory	Suga Electronics(Dongguan) Company Limited
Address	No 8, Fulong Road, Qingxi Town, Dongguan, Guangdong

1.2 General description of EUT

Product name	AUDIO TRANSMITTER
Model no.	Surround
Series model	N/A
Operation Frequency:	5729MHz-5848MHz
Channel numbers:	61
Modulation Type:	FSK
Antenna Type:	PCB antenna
Antenna Gain:	0.26dBi(Provided by customer)
Max. Field Strength:	87.80dBuV/m@3m
Power supply:	5V1A by USB
Hardware Version	Surround
Software Version	1.0

Note: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

2 Test summary

No.	Test item	FCC Part Section(s)	Test Method(Clause)	Result
1	Antenna Requirement	§15.203	N/A	Pass
2	Conducted Emissions at AC Power Line (150kHz-30MHz)	§15.207	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Clause 6.2	Pass
3	20dB Bandwidth	§15.215(c)	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.9	Pass
4	Field Strength of the Fundamental Signal	§15.249(a)	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Clause 6.6	Pass
5	Radiated Emissions	§15.249 (d) §15.209	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.4,6.5,6.6	Pass
6	Restricted Band Around Fundamental Frequency	§15.205 §15.209	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Clause 6.6	Pass

3 Test Configuration

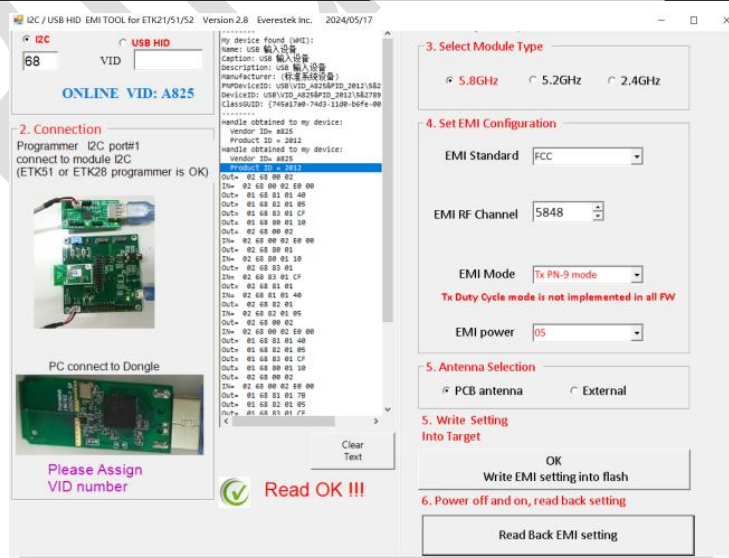
3.1 Test mode

Test Mode ^{Note 1}	Description
TX	Keep the EUT in continuously transmitting with modulation mode.
RX	Keep the EUT in receiving mode
TX Low channel	Keep the EUT in continuously transmitting mode in low channel
TX middle channel	Keep the EUT in continuously transmitting mode in middle channel
TX high channel	Keep the EUT in continuously transmitting mode in high channel

Note 1: The EUT was configured to measure its highest possible emission and/or immunity level. The test modes were adapted according to the operation manual for use; the EUT was operated in the engineering mode ^{Note 2} to fix the TX or Rx frequency that was for the purpose of the measurements.

Note 2: Special software is used. The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

Power level setup in software			
Test Software Name	12C/USB HIDEMI TOOL for ETK21/51/52		
Mode	Channel	Frequency (MHz)	Soft Set
FSK	1	5729	TX level : 5
	31	5789	
	61	5848	



3.2 Operation Frequency each of channel

Channel	Frequency(MHz)	Channel	Frequency(MHz)	Channel	Frequency(MHz)
1	5729	22	5771	43	5813
2	5731	23	5773	44	5815
3	5733	24	5775	45	5817
4	5735	25	5777	46	5819
5	5737	26	5779	47	5821
6	5739	27	5781	48	5823
7	5741	28	5783	49	5825
8	5743	29	5785	50	5827
9	5745	30	5787	51	5829
10	5747	31	5789	52	5831
11	5749	32	5791	53	5833
12	5751	33	5793	54	5835
13	5753	34	5795	55	5837
14	5755	35	5797	56	5839
15	5757	36	5799	57	5841
16	5759	37	5801	58	5843
17	5761	38	5803	59	5845
18	5763	39	5805	60	5847
19	5765	40	5807	61	5848
20	5767	41	5809	/	/
21	5769	42	5811	/	/

3.3 Test channel

Channel	Frequency(MHz)
1	5729
31	5789
61	5848

3.4 Auxiliary equipment

Device Type	Manufacturer	Model Name	Serial No.	Remark
PC	Lenovo	E460C	N/A	From lab (No.BLA-ZC-BS-2022005)
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Note:

--" mean no any auxiliary device during testing.

3.5 Test environment

Environment	Temperature	Voltage
Normal	25°C	AC120V

4 Laboratory information

4.1 Laboratory and accreditations

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

Company name:	BlueAsia Technical Services(Shenzhen) Co., Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
A2LA Cert. No.:	5071.01
FCC Registration Number:	923526
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
IC Registration Number:	24243
CNAS accredited No.:	L9788
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

4.2 Measurement uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

Parameter	Expanded Uncertainty
Radiated Emission(9kHz-30MHz)	$\pm 4.34\text{dB}$
Radiated Emission(30Mz-1000MHz)	$\pm 4.24\text{dB}$
Radiated Emission(1GHz-18GHz)	$\pm 4.68\text{dB}$
Radiated Emission(18GHz-40GHz)	$\pm 4.78\text{dB}$
AC Power Line Conducted Emission(150kHz-30MHz)	$\pm 3.45\text{dB}$
Occupied Channel Bandwidth	$\pm 5\%$
RF output power, conducted	$\pm 1.5\text{ dB}$
Power Spectral Density, conducted	$\pm 3.0\text{ dB}$
Unwanted Emissions, conducted	$\pm 3.0\text{ dB}$
Temperature	$\pm 3\text{ }^{\circ}\text{C}$
Supply voltages	$\pm 3\%$
Time	$\pm 5\%$

5 Test equipment

Radiated Spurious Emissions (Below 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-002-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-002-02	Control room	966 control room	SKET	N/A	2024/3/27	2027/3/26
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2025/08/05	2026/08/04
BLA-EMC-043	Loop antenna	FMZB1519B	Schwarzbeck	00102	2026/05/31	2027/05/30
BLA-EMC-065	Broadband antenna	VULB9168	Schwarzbeck	01065P	2026/05/31	2027/05/30
BLA-XC-01	Coaxial Cable	N/A	BlueAsia	V01	N/A	N/A
BLA-XC-02	Coaxial Cable	N/A	BlueAsia	V02	N/A	N/A

Radiated Spurious Emissions (Above 1GHz)

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-001-01	Anechoic chamber	9*6*6 chamber	SKET	N/A	2023/11/16	2026/11/15
BLA-EMC-001-02	Control Room	966 control room	SKET	N/A	2026/01/10	2028/01/09
BLA-EMC-008	Spectrum	FSP40	R&S	100817	2025/08/05	2026/08/04
BLA-EMC-013	Horn Antenna	BBHA9120D	Schwarzbeck	01892	2026/05/31	2027/05/30
BLA-EMC-014	Amplifier	PA_000318G-45	SKET	PA2018043003	2025/08/05	2026/08/04
BLA-EMC-046	Filter bank	2.4G/5G Filter bank	SKET	N/A	2026/05/25	2027/05/24
BLA-EMC-061	Receiver	ESPI7	R&S	101477	2026/05/25	2027/05/24
BLA-EMC-066	Amplifier	LNPA_30M01G-30	SKET	SK2021060801	2026/05/25	2027/05/24
BLA-EMC-086	Amplifier	LNPA_18G40G-50dB	SKET	SK2022071301	2026/05/25	2027/05/24
BLA-EMC-087	Horn Antenna	BBHA 9170	Schwarzbeck	1106	2026/05/31	2027/05/30
BLA-XC-03	Coaxial Cable	N/A	BlueAsia	V03	N/A	N/A
BLA-XC-04	Coaxial Cable	N/A	BlueAsia	V04	N/A	N/A

Conducted Emissions

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-001	Shield room	8*3*3	SKET	N/A	2026/01/10	2028/01/09
BLA-EMC-009	EMI receiver	ESR7	R&S	101199	2025/08/05	2026/08/04
BLA-EMC-011	LISN	ENV216	R&S	101372	2025/08/05	2026/08/04
BLA-EMC-033	Impedance transformer	DC-2GHz	DFXP	N/A	2026/05/25	2027/05/24
BLA-EMC-041	LISN	AT166-2	ATTEN	AKK180600003	2025/08/05	2026/08/04
BLA-EMC-045	Impedance stable network	ISNT8-cat 6	TESEQ	53580	2025/08/05	2026/08/04
BLA-EMC-095	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01045	2026/05/25	2027/05/24
BLA-EMC-096	Single-channel vehicle artificial power network	NNBM 8124	Schwarzbeck	01075	2026/05/25	2027/05/24
BLA-XC-05	Coaxial Cable	N/A	BlueAsia	V05	N/A	N/A

RF conducted

Equipment	Name	Model	Manufacture	S/N	Cal. Date	Due. Date
BLA-EMC-003-003	Shield room	5*3*3	SKET	N/A	2026/01/10	2028/01/09
BLA-EMC-016	Signal Generator	N5182A	Agilent	MY52420567	2026/05/25	2027/05/24
BLA-EMC-038	Spectrum	N9020A	Agilent	MY49100060	2025/08/05	2026/08/04
BLA-EMC-042	Power sensor	RPR3006W	DARE	14I00889SN042	2025/08/05	2026/08/04
BLA-EMC-044	Radio communication tester	CMW500	R&S	132429	2025/08/05	2026/08/04
BLA-EMC-064	Signal Generator	N5182B	KEYSIGHT	MY58108892	2026/05/25	2027/05/24
BLA-EMC-079	Spectrum	N9020A	Agilent	MY54420161	2025/08/05	2026/08/04
BLA-EMC-088	Audio Analyzer	ATS-1	Audio Precision	ATS141094	2026/05/25	2027/05/24
BLA-EMC-100	Digital Radio Tester	RWC2010	Redwoodcomm	RWC20102490304	2026/05/25	2027/05/24

Test software

Software No.	Software Name	Manufacture	Software version	Test site
BLA-EMC-S001	EZ-EMC	EZ	EEMC-3A1+	RE(Below 1GHz)
BLA-EMC-S002	EZ-EMC	EZ	EEMC-3A1+	RE(Above 1GHz)
BLA-EMC-S003	EZ-EMC	EZ	EEMC-3A1+	CE
BLA-EMC-S010	MTS 8310	MW	2.0.0.0	RF

6 Test result

6.1 Antenna requirement

Test Standard	47 CFR Part 15, Subpart C 15.203
Test Method	N/A

6.1.1 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 an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of a so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0.26 dBi.

6.2 Conducted emissions at AC power line (150 kHz-30 MHz)

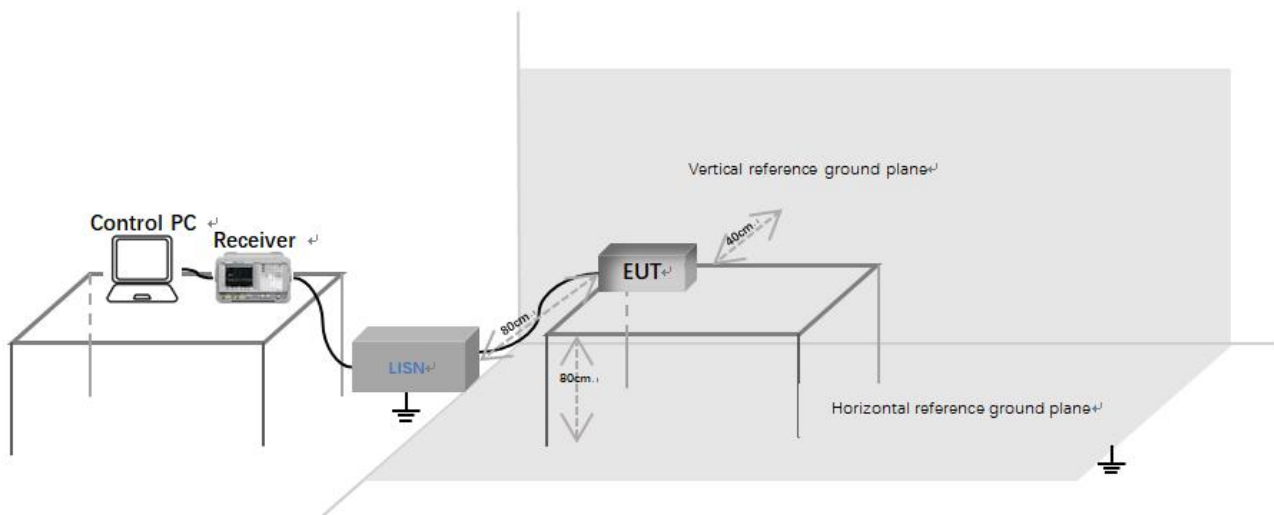
Test Standard	47 CFR Part 15, Subpart C 15.207
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.2
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.2.1 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.

6.2.2 Test setup



Description of test setup connection:

- Connect the control PC to the receiver through a USB to GPIB cable;
- The receiver is connected to the LISN through a coaxial line;
- Connect the power port of LISN to the EUT.

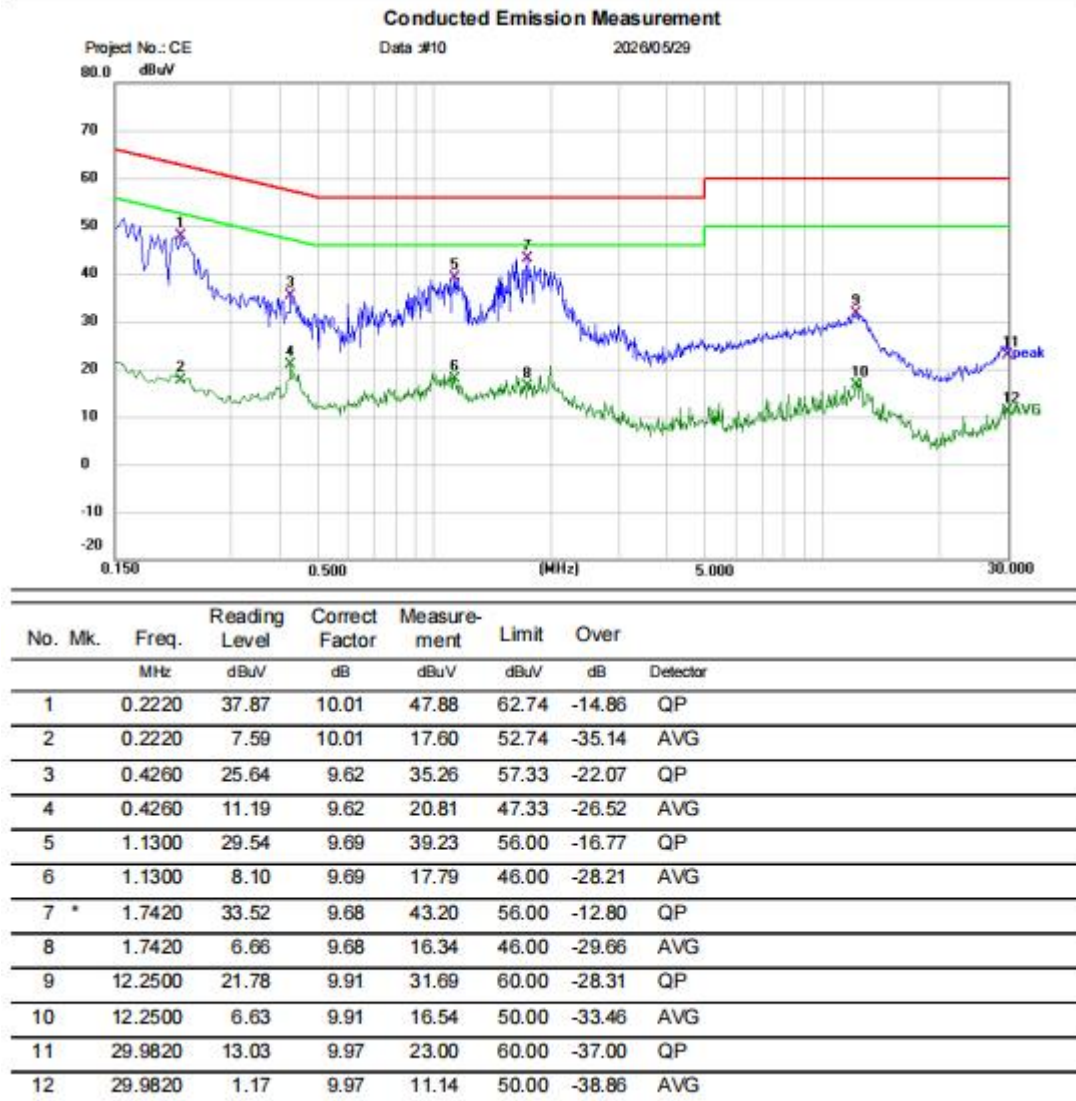
6.2.3 Procedure

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50H + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) 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.

LISN=Read Level+ Cable Loss+ LISN Factor

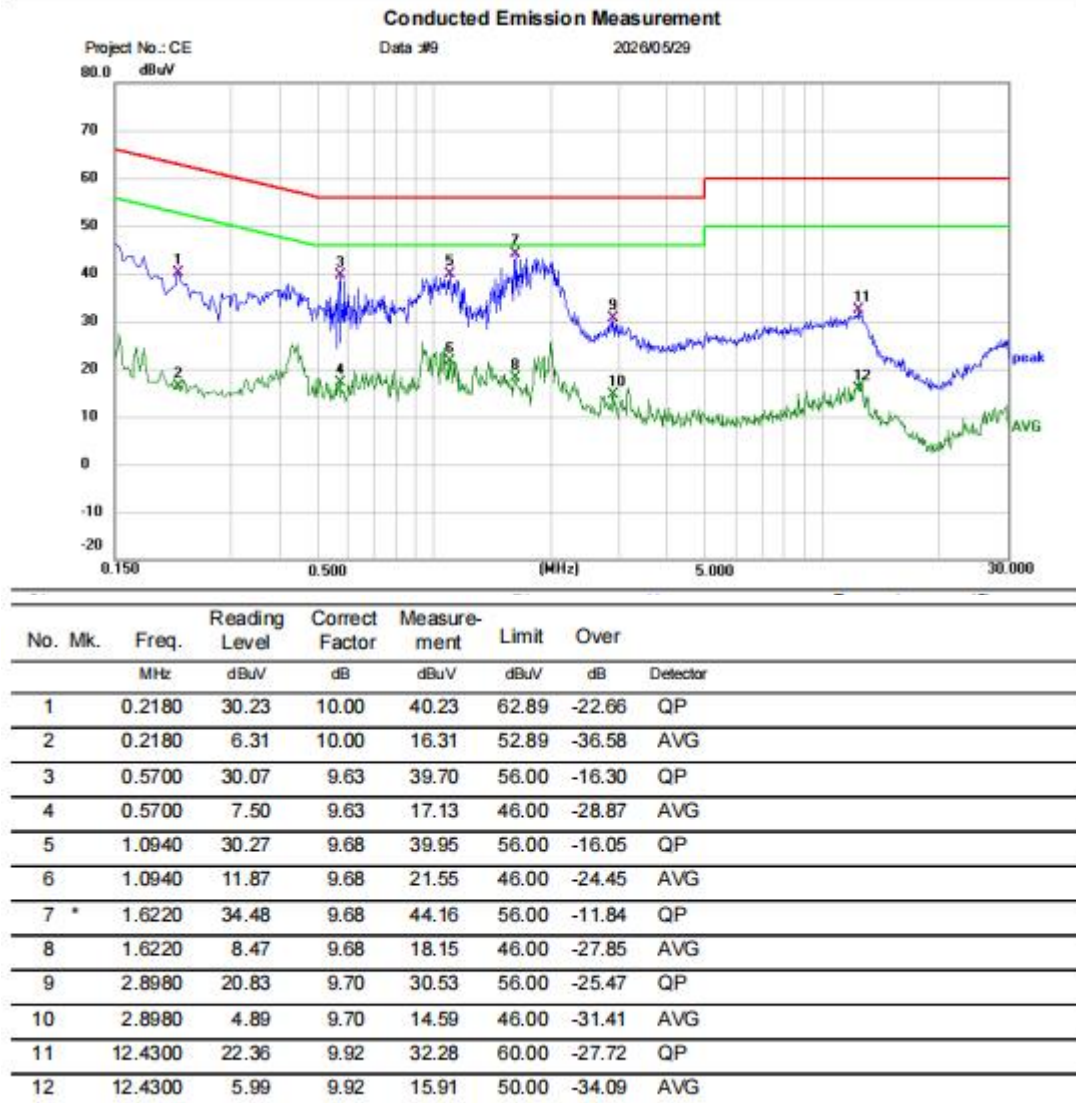
6.2.4 Test data

[Test Mode: TX]; [Line: Line] ;[Power:AC120V/60Hz]



Test Result: Pass

[Test Mode: TX]; [Line: Neutral] ;[Power:AC120V/60Hz]


Test Result: Pass

6.3 Field strength of the fundamental signal

Test Standard	47 CFR Part 15, Subpart C 15.249(a)
Test Method	ANSI C63.10-2020 + Cor. 1-2023 + C63.10a-2024 + Errata to C63.10a-2024 Clause 6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

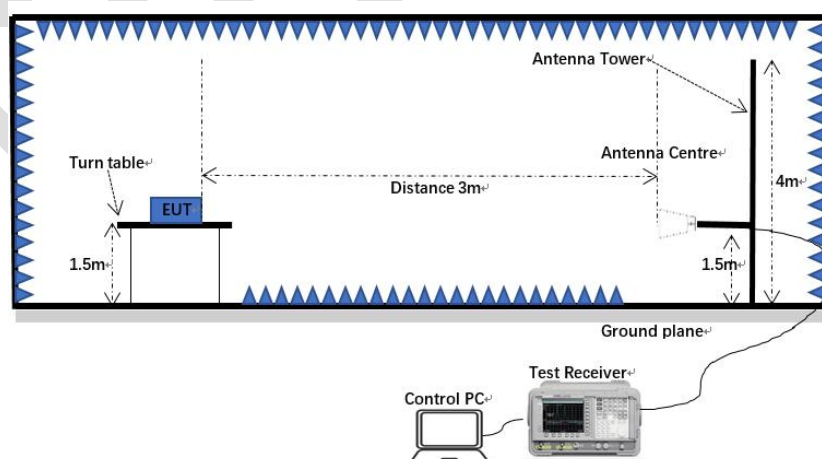
6.3.1 Limit

Fundamental frequency(MHz)	Field strength of fundamental(dBuV/m)	Field strength of harmonics(dBuV/m)
902-928	94	54
2400-2483.5	94	54
5725-5875	94	54
24000-24250	108	68

Remark: The frequencies above 1000MHz 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.

6.3.2 Test setup

Above 1GHz:



6.3.3 Procedure

- a) For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b) The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e) The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f) If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g) Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i) Repeat above procedures until all frequencies measured was complete.
- j) $\text{Level (dB}\mu\text{V/m)} = \text{Reading Level(dBuV)} + \text{Correct Factor (dB)}$
- k) SA setting: RBW=1MHz, VBW=3MHz, PK detector is for PK value, RMS detector is for AV value.
- l) Averaging/measurement time: The measurement time covers the entire measurement frequency bandwidth and the entire cycle time.

6.3.4 Test data

5729MHz

Peak value

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Antenna Polaxis
5729.0	82.61	114.00	-31.39	H
5729.0	87.80	114.00	-26.20	V
11458.0	52.21	74.00	-21.79	H
11458.0	51.25	74.00	-22.75	V

Average value

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Antenna Polaxis
5729.0	79.12	94.00	-14.88	H
5729.0	84.62	94.00	-9.38	V
11458.0	40.14	54.00	-13.86	H
11458.0	40.22	54.00	-13.78	V

5789MHz

Peak value

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Antenna Polaxis
5789.05	80.36	114.00	-33.64	H
5789.05	87.67	114.00	-26.33	V
11578.1	52.09	74.00	-21.91	H
11578.1	51.14	74.00	-22.86	V

Average value

Frequency (MHz)	Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Antenna Polaxis
5789.0	76.75	94.00	-17.25	H
5789.0	84.35	94.00	-9.65	V
11578.0	40.36	54.00	-13.64	H
11578.0	40.11	54.00	-13.89	V

5848MHz

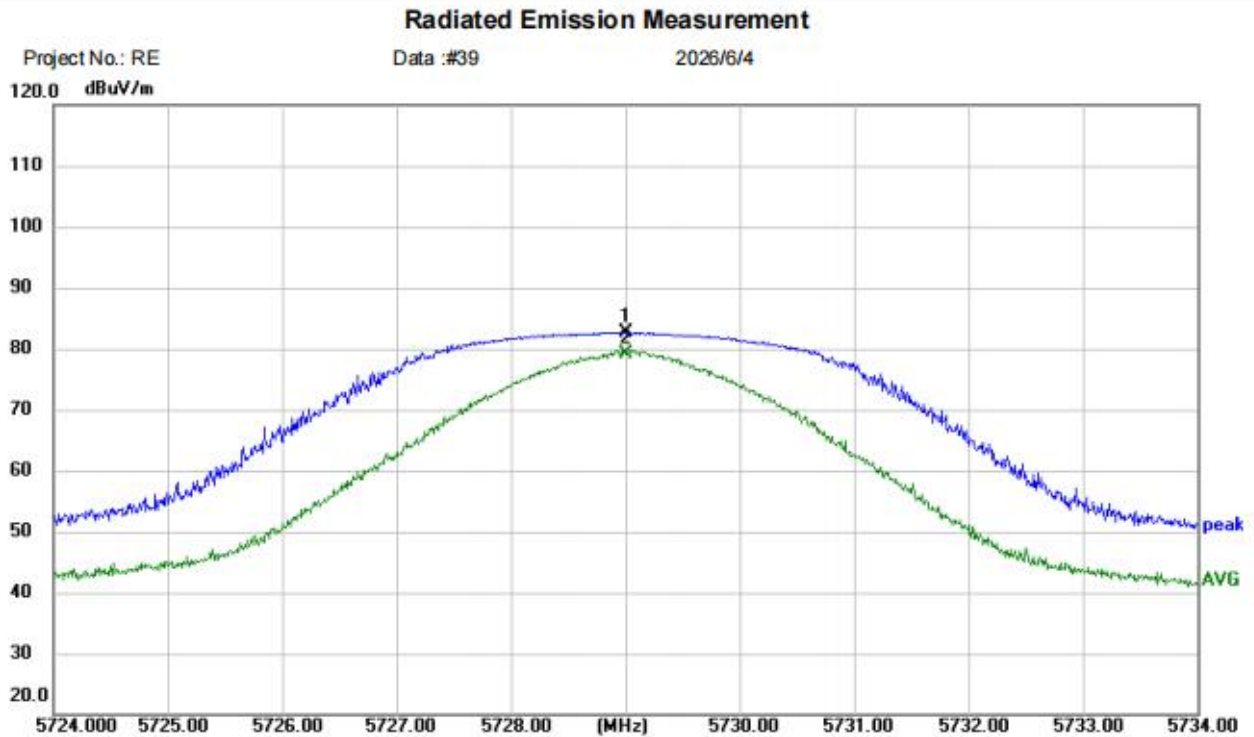
Peak value

Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Antenna Polaxis
5848.14	80.27	114.00	-33.73	H
5848.14	87.74	114.00	-26.26	V
11696.3	51.15	74.00	-22.85	H
11696.3	51.98	74.00	-22.02	V

Average value

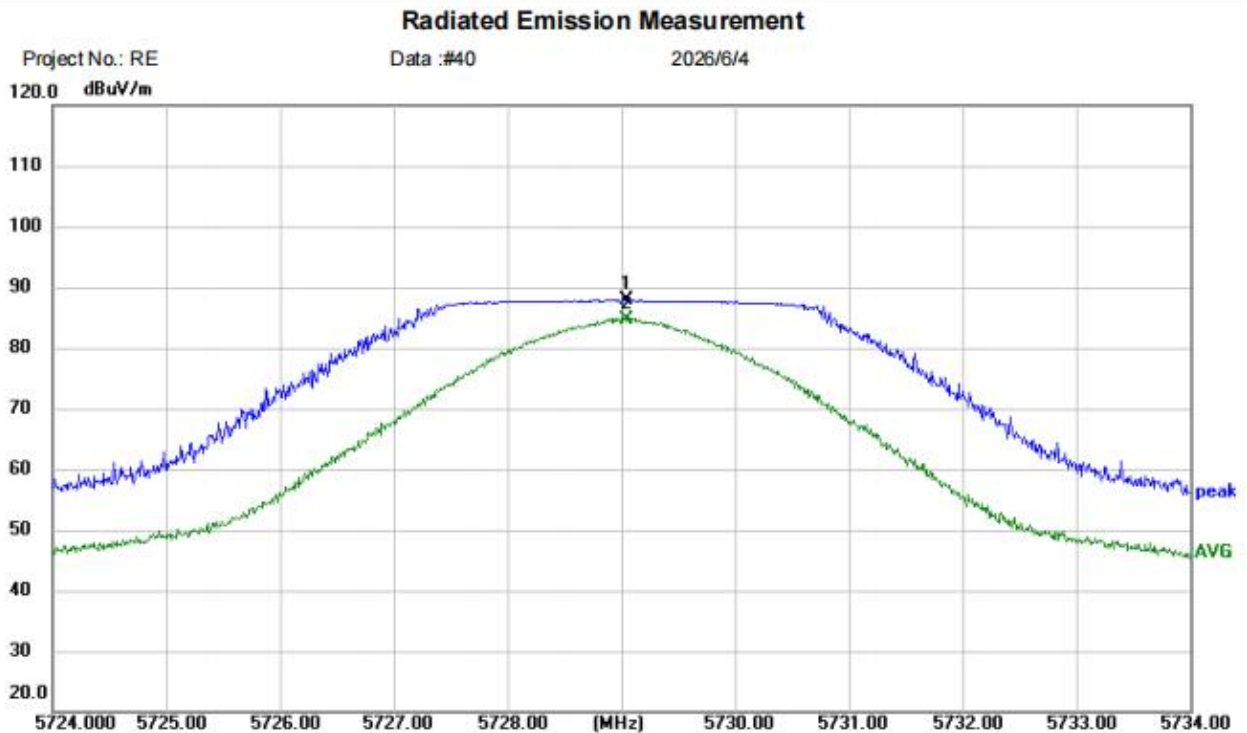
Frequency (MHz)	Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Antenna Polaxis
5848.14	76.61	94.00	-17.39	H
5848.14	84.01	94.00	-9.99	V
11696.3	41.22	54.00	-12.78	H
11696.3	40.18	54.00	-13.82	V

[Test mode: TX low channel]; [Polarity: Horizontal]



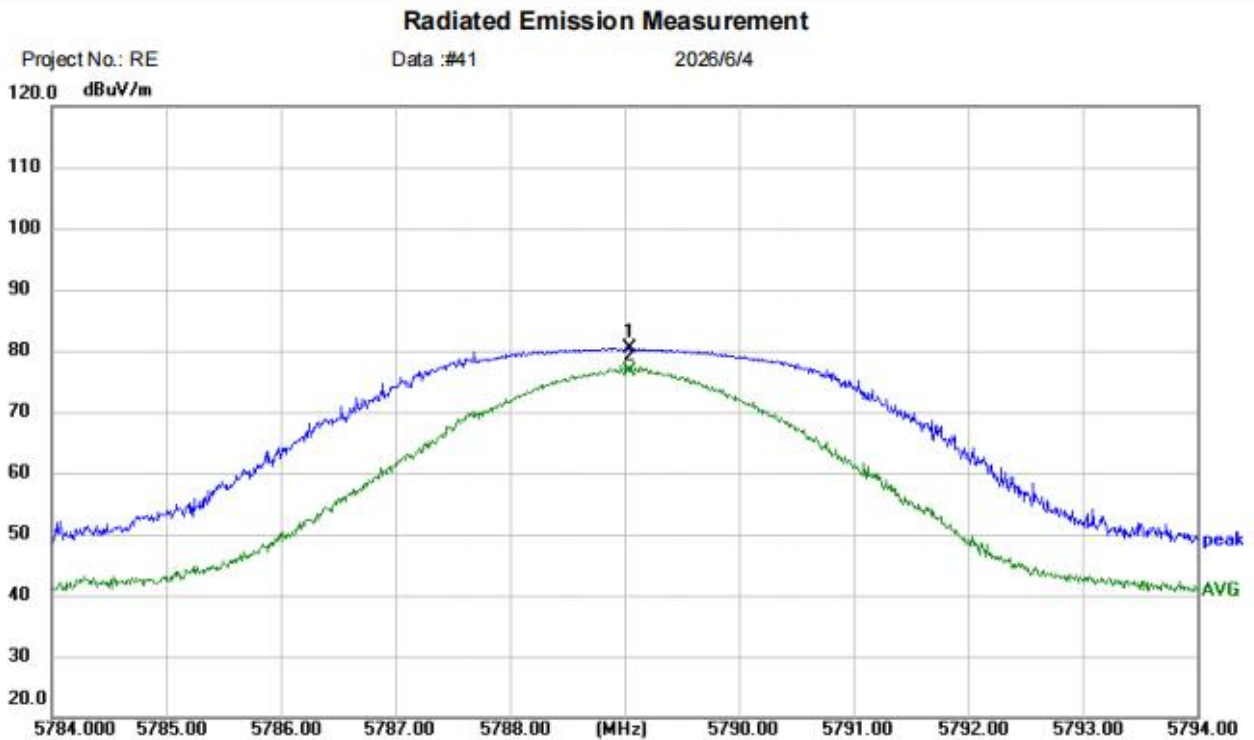
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5729.000	81.42	1.19	82.61			peak	
2		5729.000	77.93	1.19	79.12			AVG	

[Test mode: TX low channel]; [Polarity: Vertical]



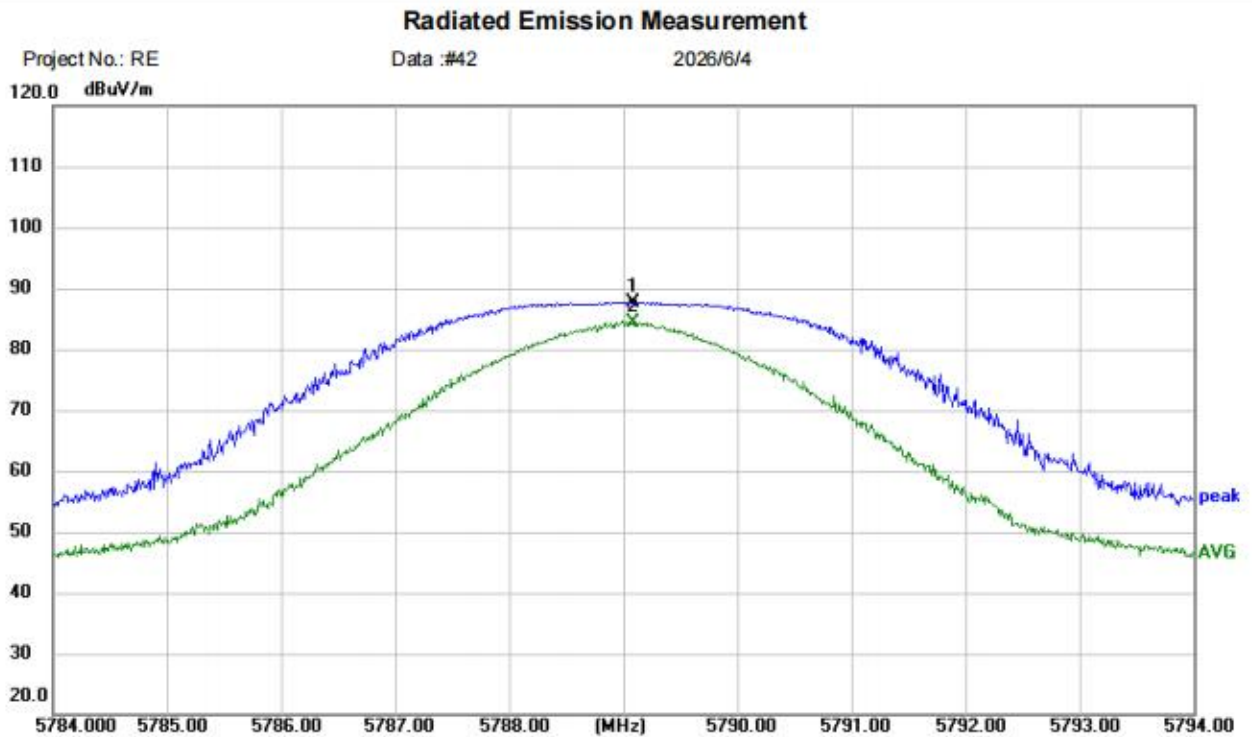
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	5729.050	86.61	1.19	87.80			peak	
2		5729.050	83.43	1.19	84.62			AVG	

[Test mode: TX middle channel]; [Polarity: Horizontal]



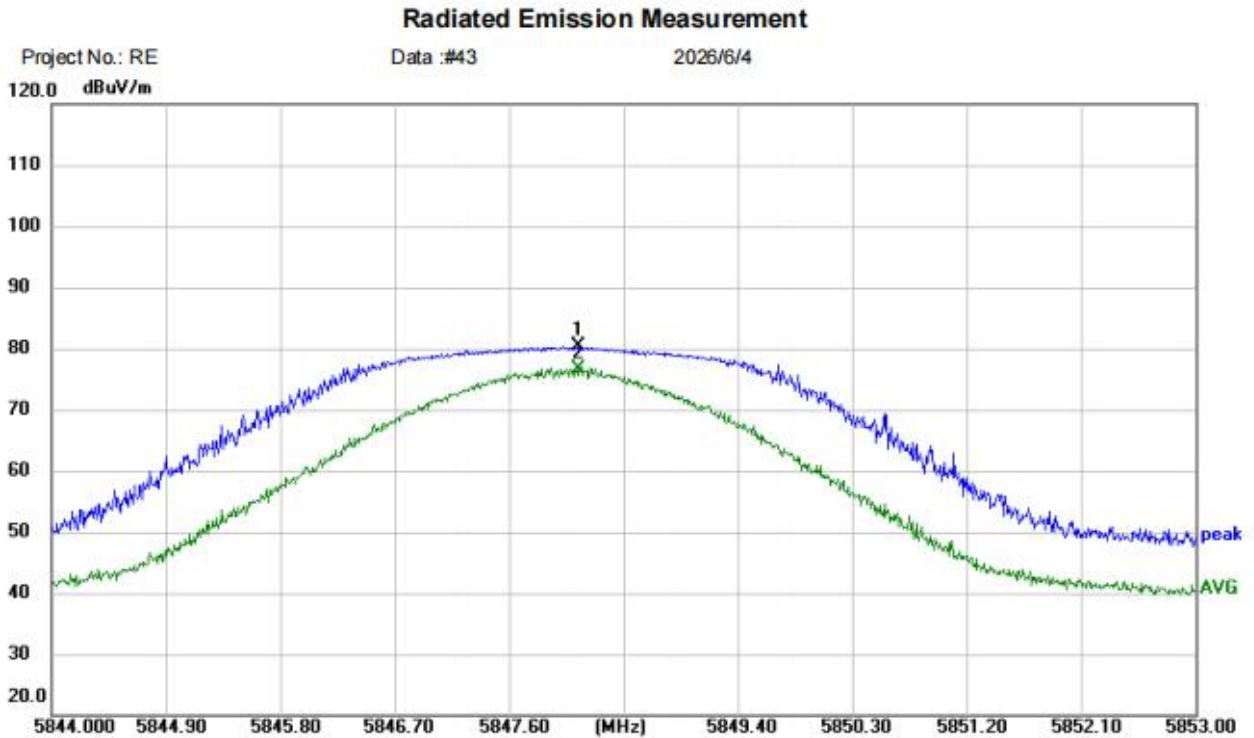
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5789.050	78.71	1.65	80.36			peak	
2		5789.050	75.10	1.65	76.75			AVG	

[Test mode: TX middle channel]; [Polarity: Vertical]



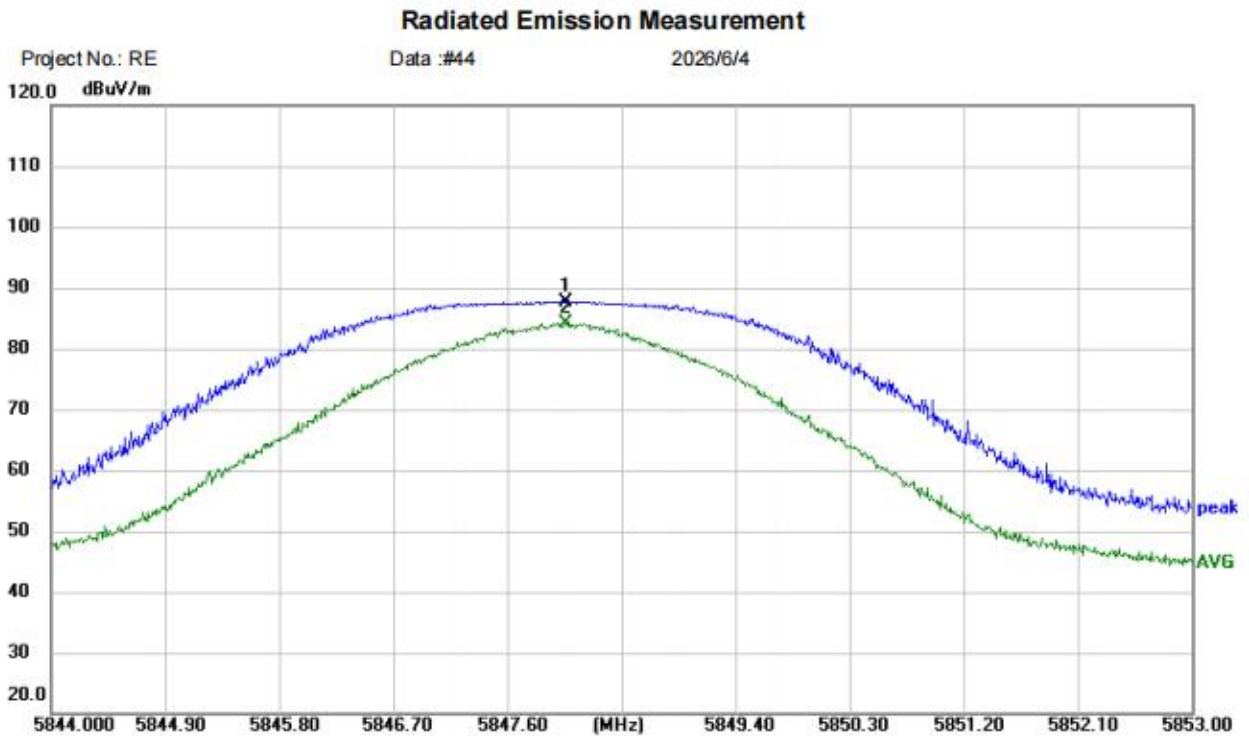
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB		
1	*	5789.080	86.02	1.65	87.67			peak	
2		5789.080	82.70	1.65	84.35			AVG	

[Test mode: TX high channel]; [Polarity: Horizontal]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5848.140	78.49	1.78	80.27			peak	
2		5848.140	74.83	1.78	76.61			AVG	

[Test mode: TX high channel]; [Polarity: Vertical]



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dBuV/m	Over dB	Detector	Comment
1	*	5848.059	85.96	1.78	87.74			peak	
2		5848.059	82.23	1.78	84.01			AVG	

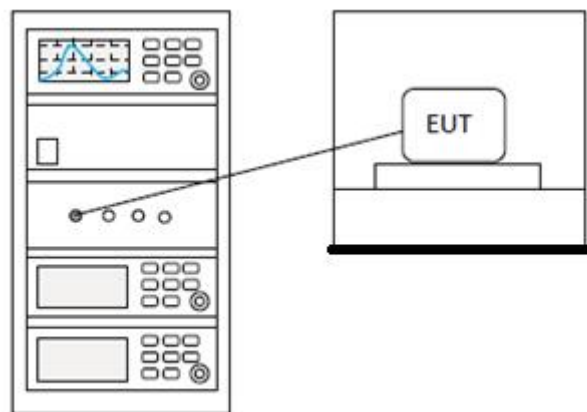
6.4 20dB bandwidth

Test Standard	47 CFR Part 15, Subpart C 15.215(c)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.9
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

6.4.1 Limit

N/A

6.4.2 Test setup



6.4.3 Procedure

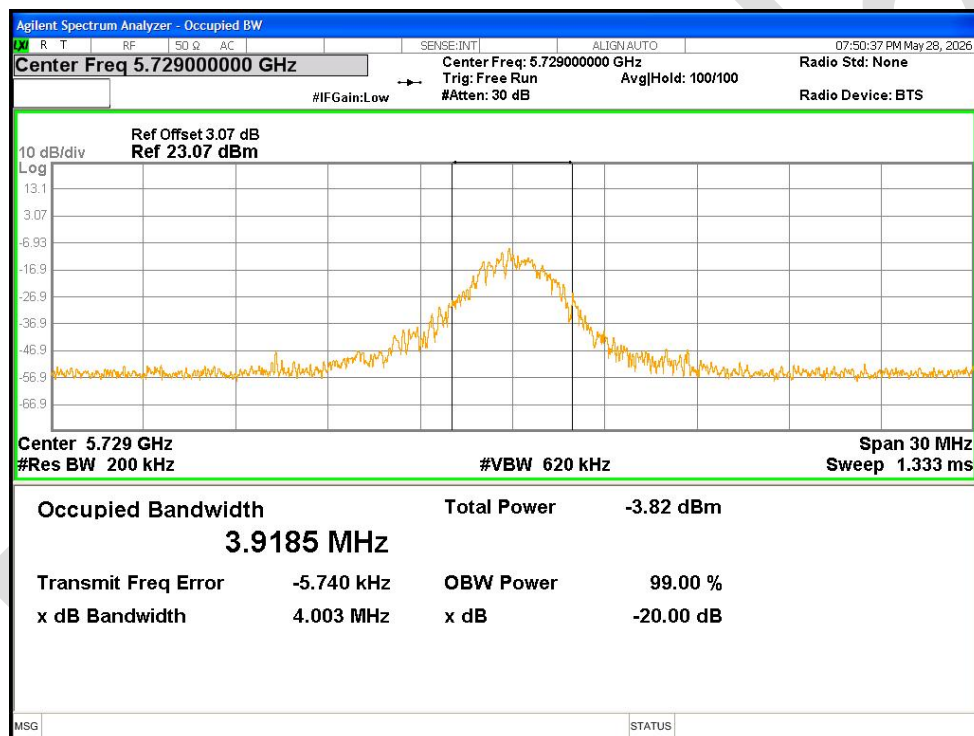
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:

Frequency	Test Frequency
Span	30 MHz
RBW/VBW	200 kHz /620 kHz
Sweep Time	Auto
Detector mode	Peak
Indication mode	Max hold

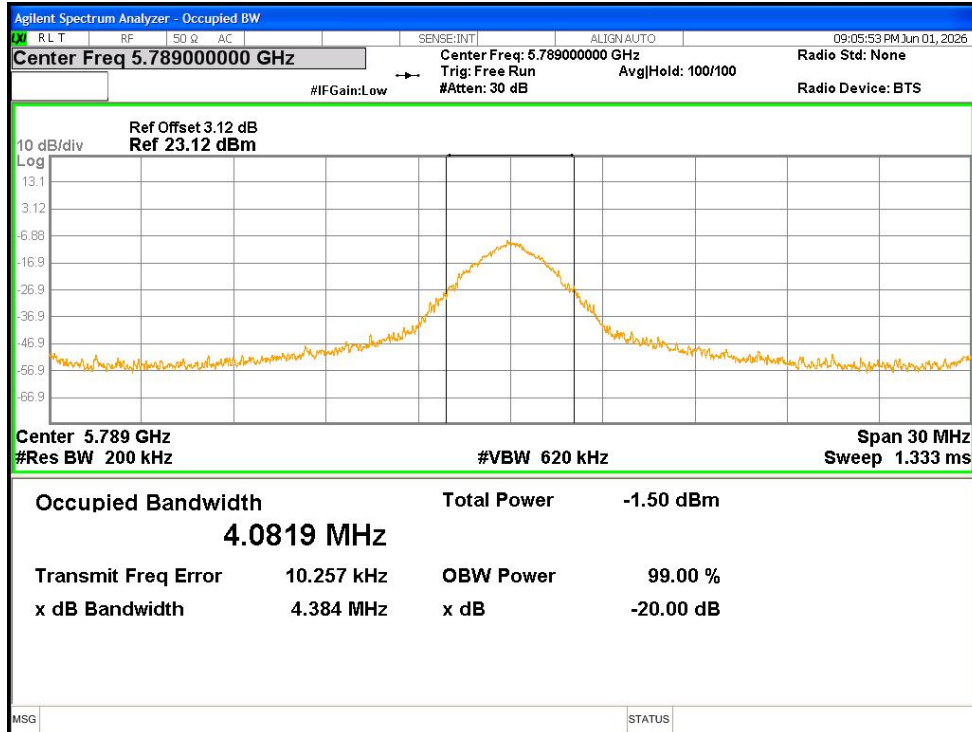
6.4.4 Test data

Test Frequency MHz	20dB Bandwidth kHz	Result
5729	4003	Pass
5789	4384	
5848	4259	

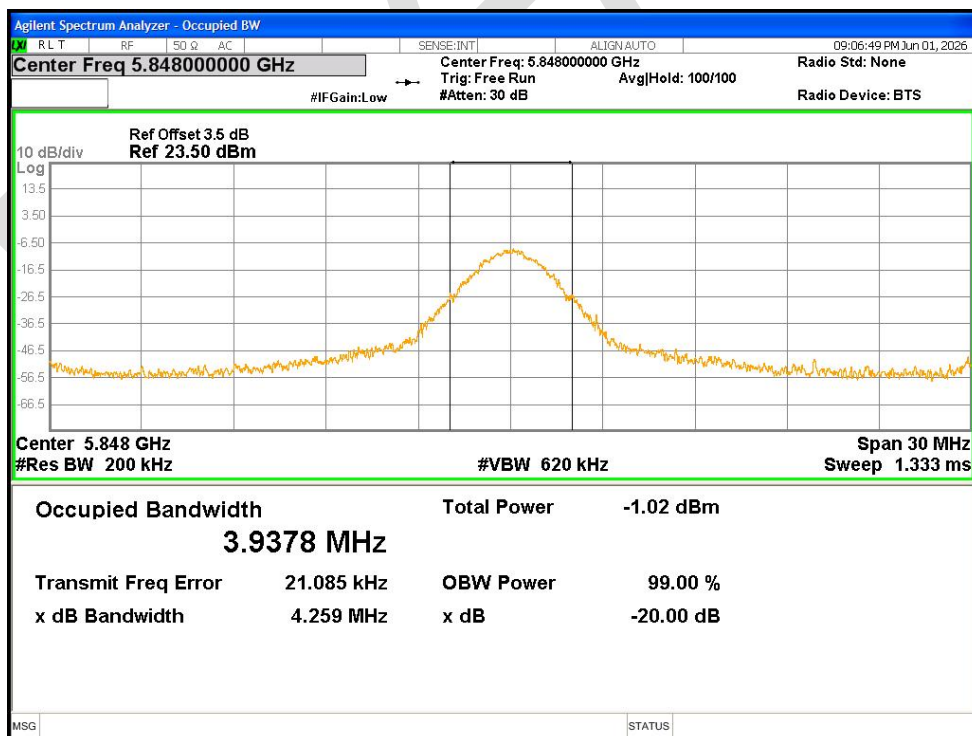
NVNT 5729MHz Ant1



NVNT 5789MHz Ant1



NVNT 5848MHz Ant1



6.5 Radiated spurious emissions

Test Standard	47 CFR Part 15, Subpart C 15.249(d)
Test Method	ANSI C63.10-2020+Cor. 1-2023+C63.10a-2024+Errata to C63.10a-2024 Section 6.4,6.5,6.6
Test Mode (Pre-Scan)	TX
Test Mode (Final Test)	TX

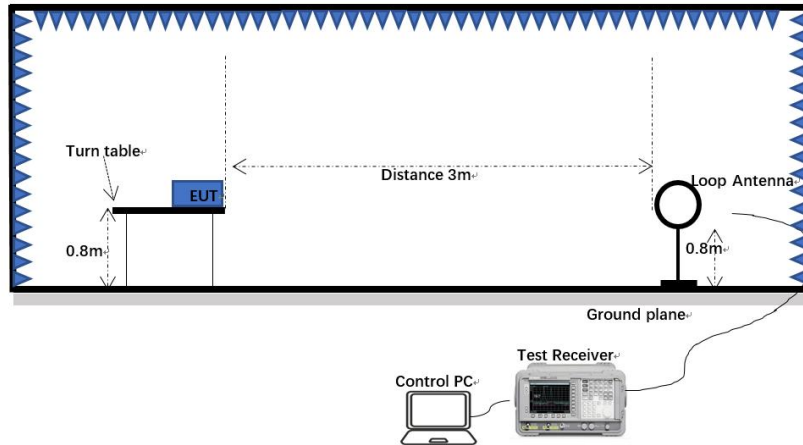
6.5.1 Limit

Frequency(MHz)	Field strength (microvolts/meter)	Limit (dBuV/m)	Detector	Measurement Distance (meters)
0.009-0.490	2400/F(kHz)	-	-	300
0.490-1.705	24000/F(kHz)	-	-	30
1.705-30	30	-	-	30
30-88	100	40.0	QP	3
88-216	150	43.5	QP	3
216-960	200	46.0	QP	3
960-1000	500	54.0	QP	3
Above 1000	500	54.0	AV	3

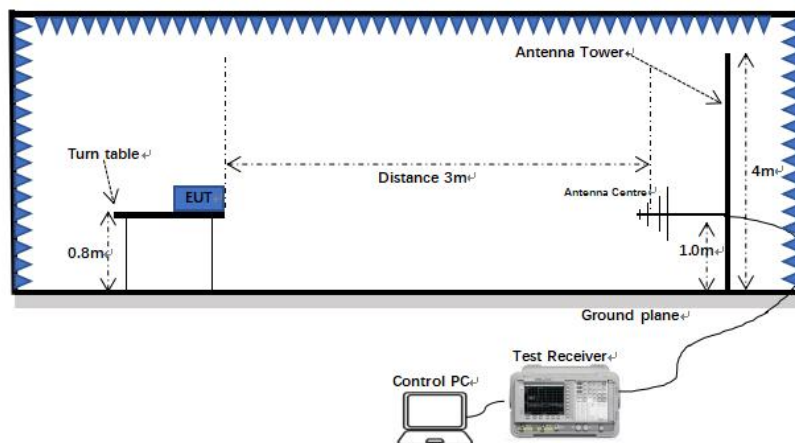
Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

6.5.2 Test setup

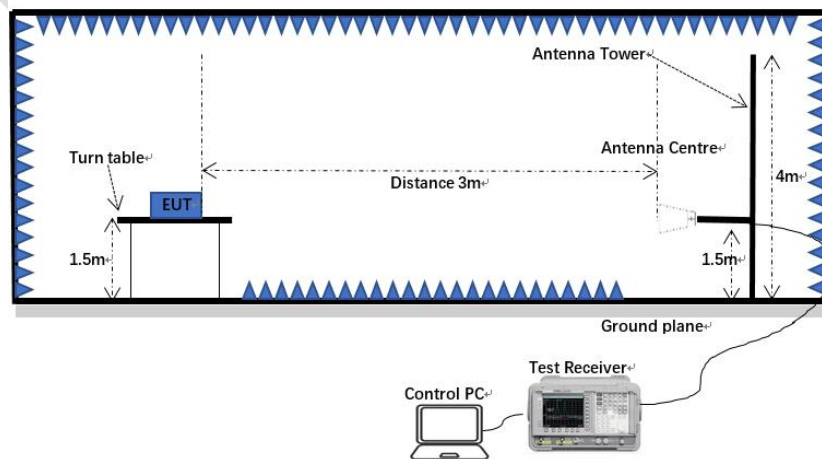
Below 1GHz:



30MHz-1GHz:



Above 1GHz:



6.5.3 Procedure

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

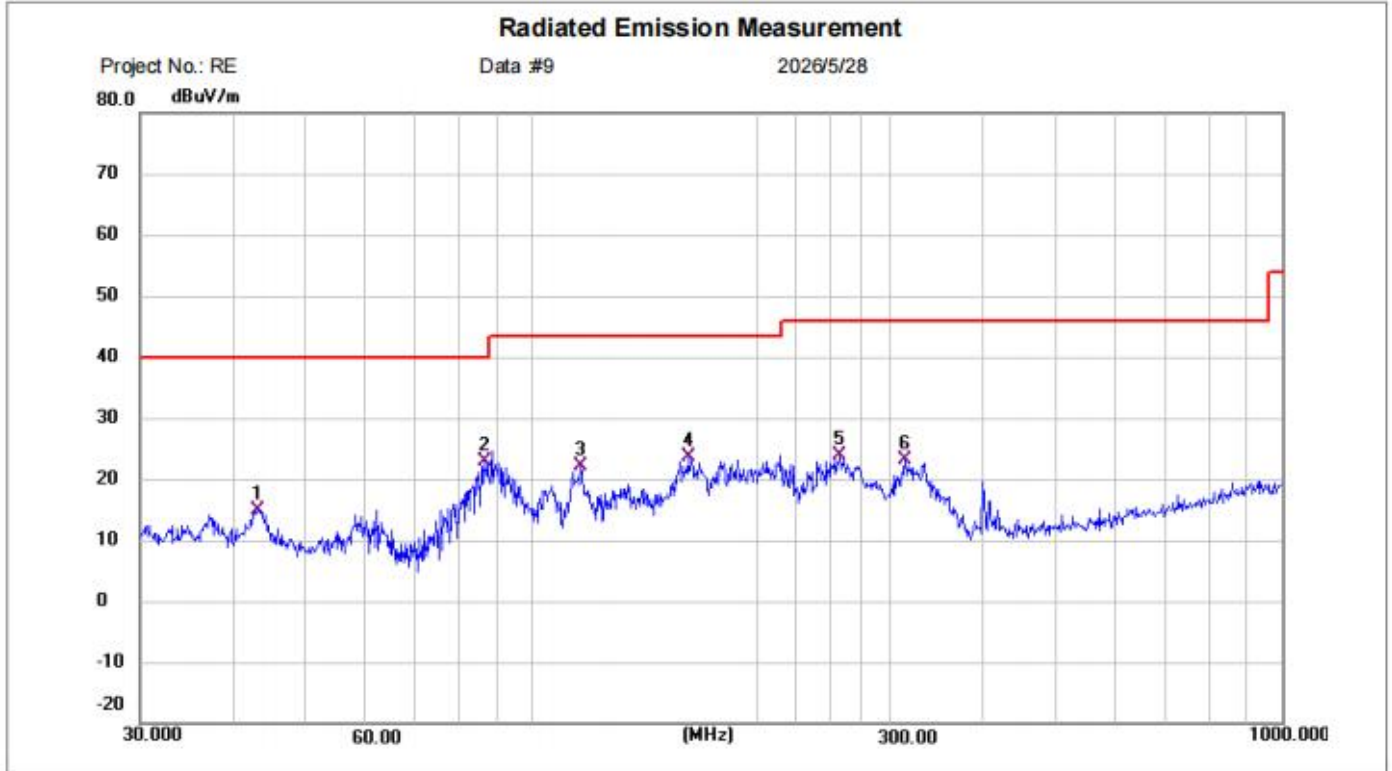
3) Scan from 9kHz to 40GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported. Fundamental frequency is blocked by filter, and only spurious emission is shown.

4) For frequencies above 1GHz, the field strength limits 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 the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

6.5.4 Test data

Below 1GHz

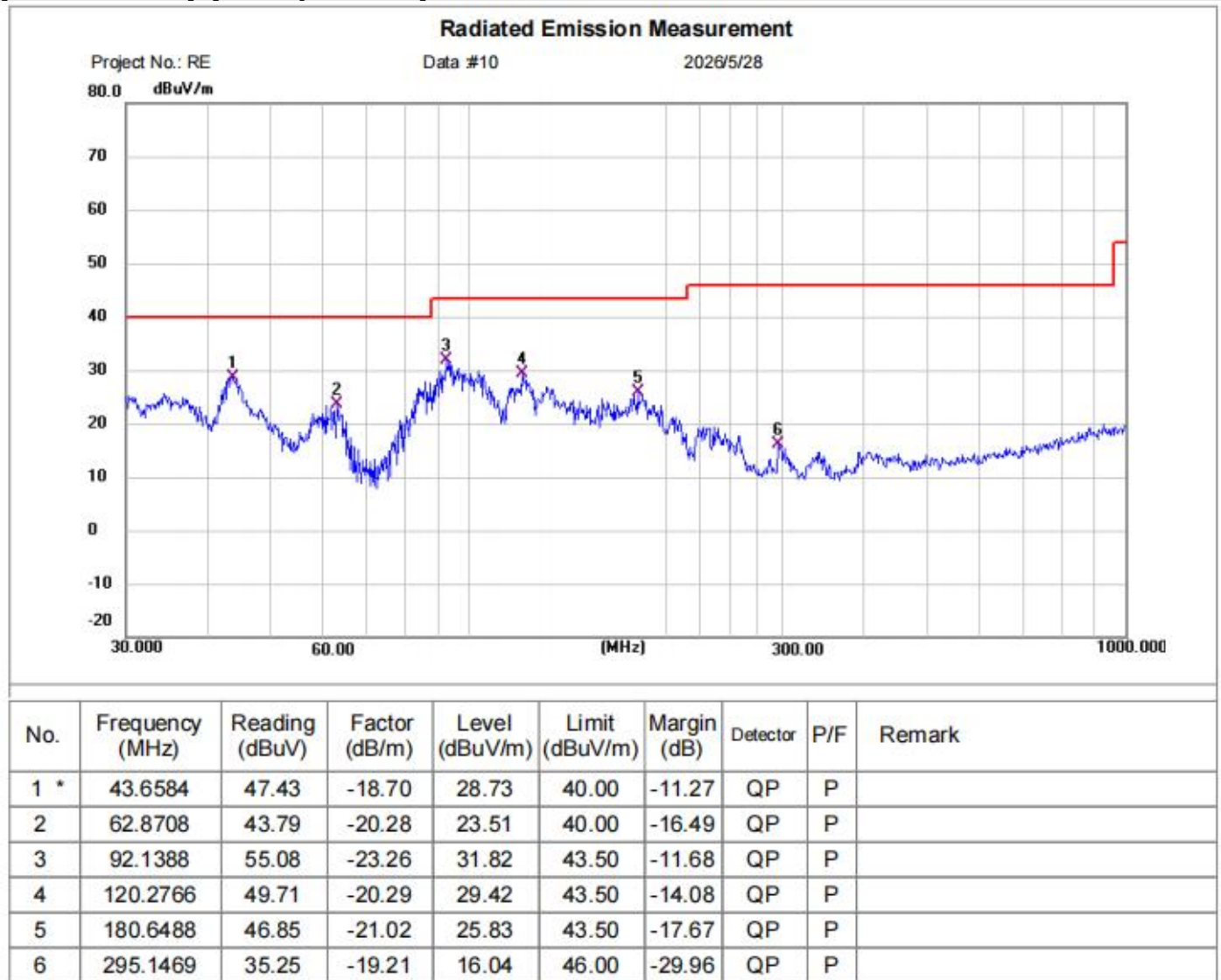
[Test mode: TX]; [Polarity: Horizontal]



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	P/F	Remark
1	43.0504	33.64	-18.70	14.94	40.00	-25.06	QP	P	
2 *	86.5027	45.77	-22.86	22.91	40.00	-17.09	QP	P	
3	116.1321	42.70	-20.58	22.12	43.50	-21.38	QP	P	
4	161.4740	42.15	-18.48	23.67	43.50	-19.83	QP	P	
5	257.4221	44.34	-20.36	23.98	46.00	-22.02	QP	P	
6	314.3764	41.77	-18.56	23.21	46.00	-22.79	QP	P	

Test Result: Pass

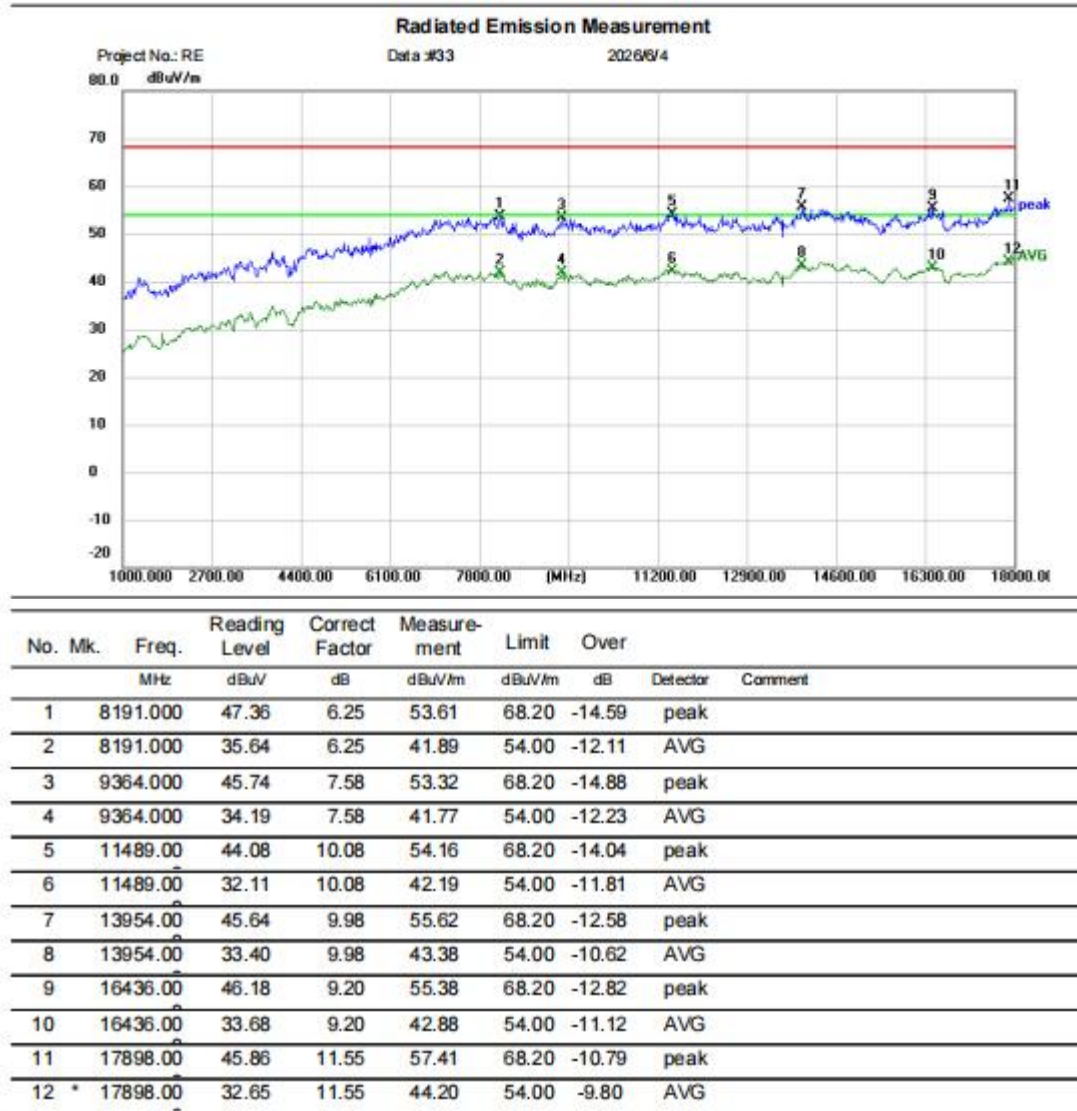
[Test mode: TX]; [Polarity: Vertical]



Test Result: Pass

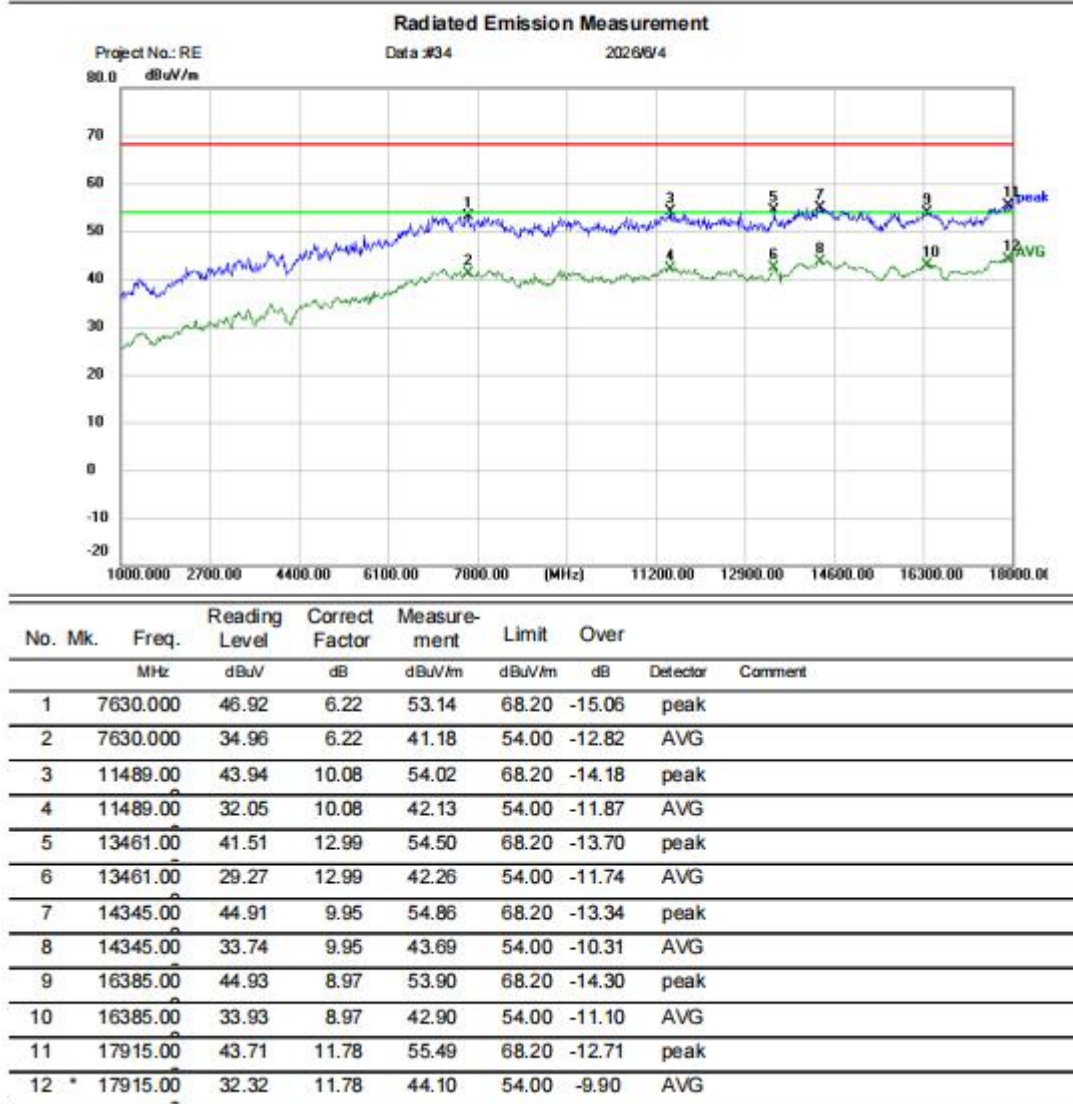
Above 1GHz:

[Test mode: TX low channel]; [Polarity: Horizontal]



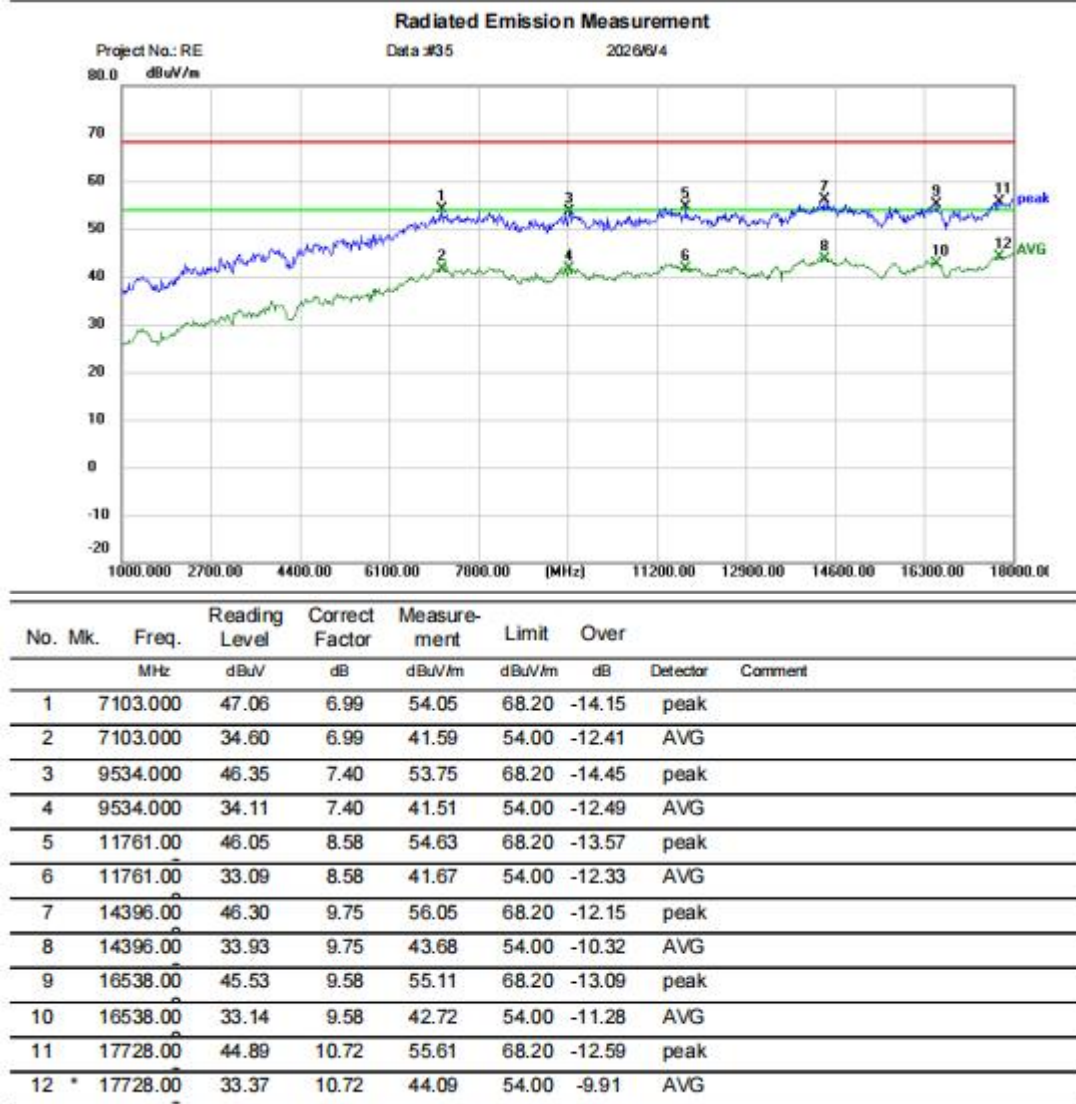
Test Result: Pass

[Test mode: TX low channel]; [Polarity: Vertical]



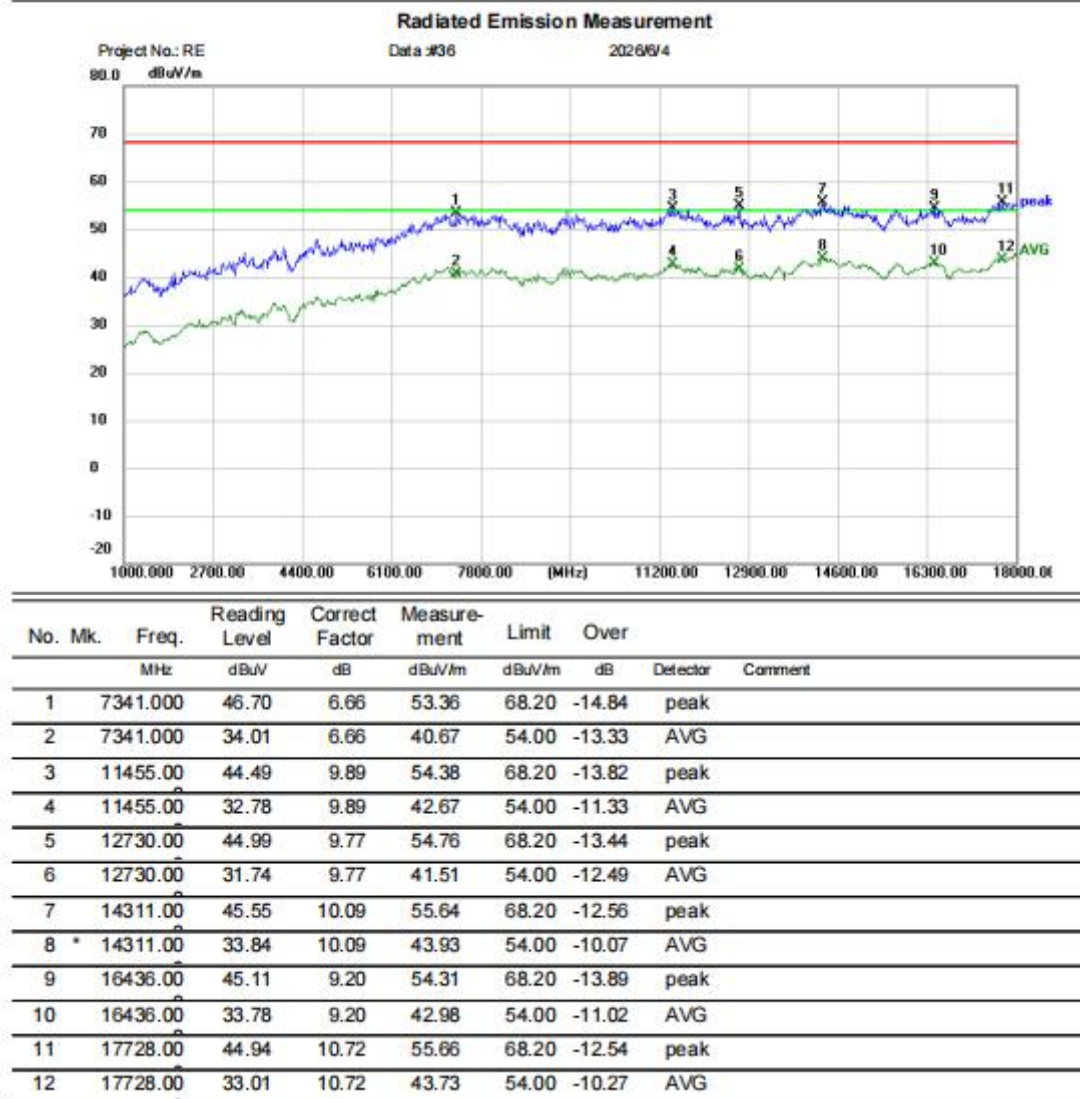
Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Horizontal]



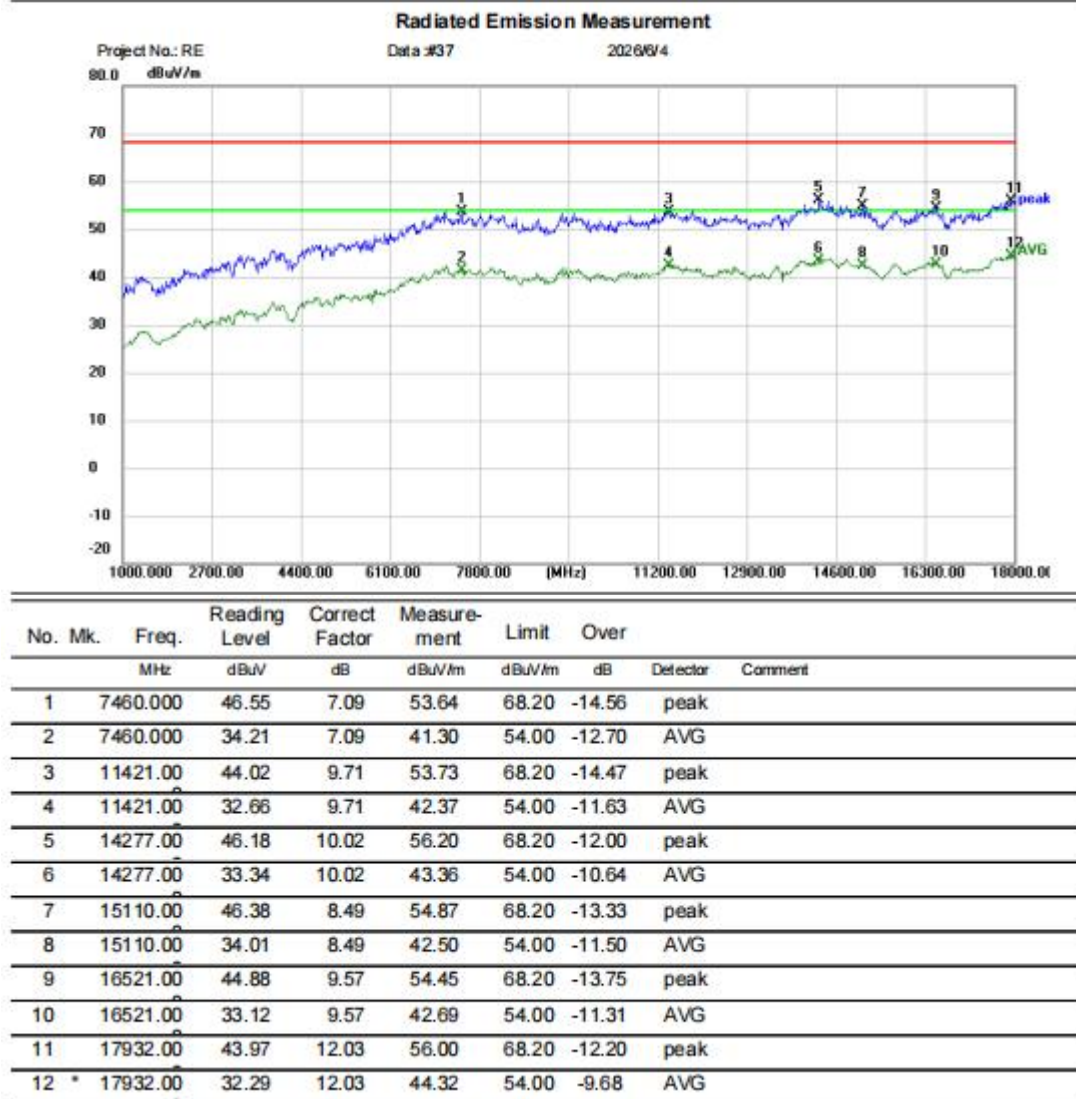
Test Result: Pass

[Test mode: TX middle channel]; [Polarity: Vertical]



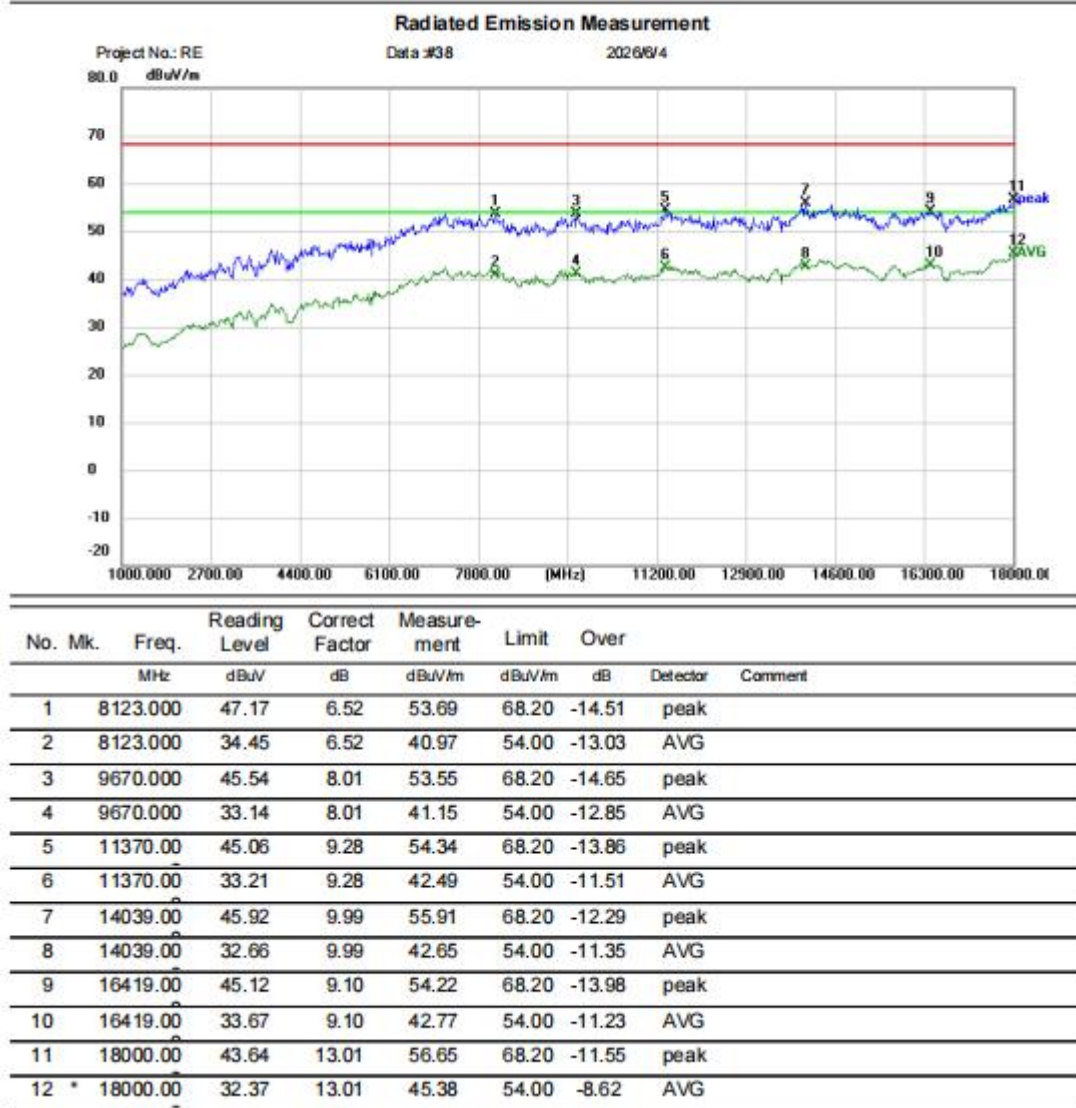
Test Result: Pass

[Test mode: TX high channel]; [Polarity: Horizontal]



Test Result: Pass

[Test mode: TX high channel]; [Polarity: Vertical]



Test Result: Pass