REPORT No.: SZ25020060W01

TEST REPORT

APPLICANT	:	Nice North America LLC
PRODUCT NAME	:	345MHz Sensor Repeater
MODEL NAME	:	2GIG-RPTR100-345
BRAND NAME	:	2GIG
FCC ID	:	EF400257
STANDARD(S)	:	47 CFR Part 15 Subpart C
RECEIPT DATE	:	2025-02-13
TEST DATE	:	2025-02-18 to 2025-03-11
ISSUE DATE	:	2025-03-24

Edited by: Zeng Xiaoying (Rapporteur)

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DIRECTORY

Change History		
Version	Date	Reason for change
1.0	2025-03-24	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Nice North America LLC
Applicant Address:	5919 Sea Otter Place, Suite 100, Carlsbad, CA 92010, USA
Manufacturer:	Nice North America LLC
Manufacturer Address:	5919 Sea Otter Place, Suite 100, Carlsbad, CA 92010, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	345MHz Sensor Repeater
Sample No.:	3#, 12#
Hardware Version:	X1
Software Version:	X1
Operating Frequency:	345 MHz
Channel Number:	1
Antenna Type:	Metal Antenna
Antenna Gain:	-2.24dBi

Note 1: For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

1.3. Test Standards and Results

The objective of the report is to perform testing according to 47 CFR Part 15 Subpart C for the EUT FCC ID Certification:

No	Identity	Document Title
1	47 CFR Part 15 (10-1-15 Edition)	Radio Frequency Devices

Test detailed items/section required by FCC rules and results are as below:

No.	Section	Description	Test Date	Test Engineer	Result	Method Determination /Remark
1	15.203	Antenna Requirement	N/A	N/A	PASS	No deviation
2	15.231(a)(1)	The Max Transmission Time	Feb. 19, 2025	Lin Haoyang	PASS	No deviation
3	15.231(c)	20dB Bandwidth	Feb. 19, 2025	Lin Haoyang	PASS	No deviation
4	15.207	Conducted Emission	Feb. 18, 2025	Fan Shengquan	PASS	No deviation
5	15.231(b) 15.209(a)	Radiated Emission	Mar. 05&10, 2025	Zhong Xiangyun	PASS	No deviation
6	15.231(b) 15.205	Restricted Frequency Bands	Mar. 05, 2025	Zhong Xiangyun	PASS	No deviation

Note 1: Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines.

Note 2: The tests were performed according to the method of measurements prescribed in ANSI C63.10-2013.

Note 3: Additions to, deviation, or exclusions from the method shall be judged in the “method determination” column of add, deviate or exclude from the specific method shall be explained in the “Remark” of the above table.

Note 4: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.

1.4. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15–35
Relative Humidity (%):	30–60
Atmospheric Pressure (kPa):	86–106

2. 47 CFR Part 15C Requirements

2.1. Antenna Requirement

2.1.1. Applicable Standard

According to FCC 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.

2.1.2. Result: Compliant

The EUT has a permanently and irreplaceable attached antenna. Please refer to the EUT internal photos.

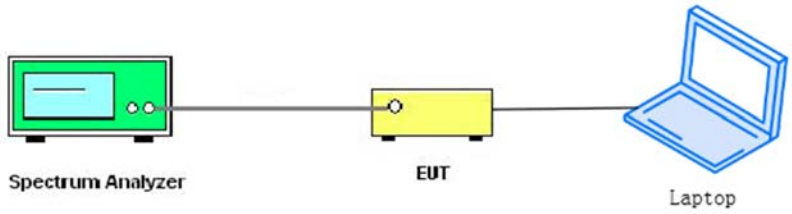
2.2. The Max Transmission Time

2.2.1. Requirement

A manually operated transmitter shall employ a switch that will automatically deactivate the transmitter within not more than 5 seconds of being released.

2.2.2. Test Description

Test Setup:



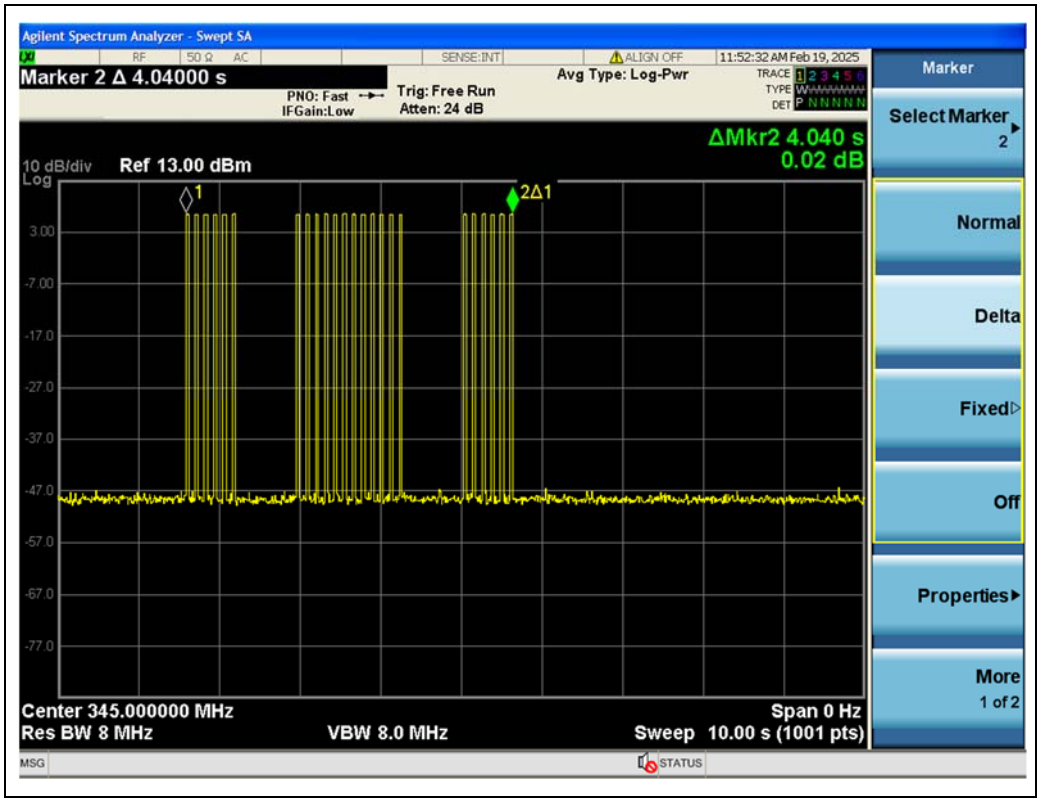
2.2.3. Test Procedure

Set the SPA Center Frequency = Fundamental frequency,
Span = 0 Hz, change the weep time until get the burst in the screen.
Set EUT as normal operation and press Transmitter button.
Set the SPA View. Delta Mark time.

2.2.4. Test Result

Frequency (MHz)	The max transmission time (s)	Limit (s)	Verdict
345	4.040	≤5	PASS

Test Plot:



(The max transmission time)

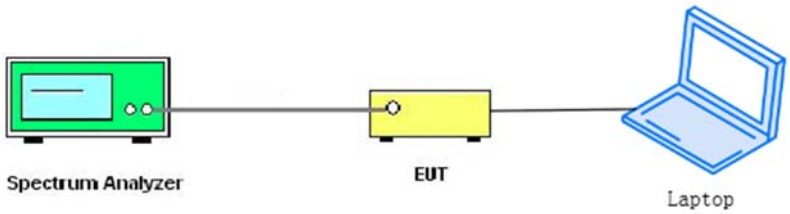
2.3. 20 dB Bandwidth

2.3.1. Requirement

The bandwidth of the emission shall be no wider than 0.25% of the center frequency for devices operating above 70 MHz and below 900 MHz. For devices operating above 900 MHz, the emission shall be no wider than 0.5% of the center frequency. Bandwidth is determined at the points 20 dB down from the modulated carrier.
As the center frequency for the device operating is 345 MHz, thus, the 20 dB bandwidth limit is 1085 kHz.

2.3.2. Test Description

Test Setup:



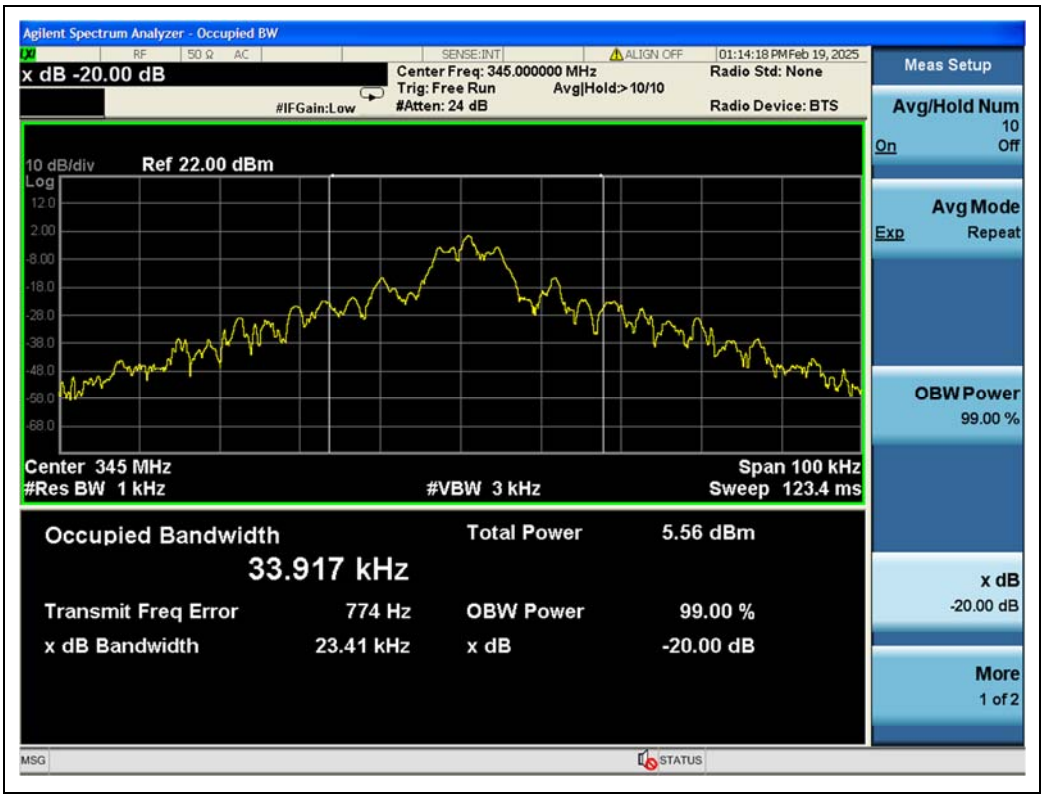
2.3.3. Test Procedure

Set spectrum analyzer's Center Frequency = Fundamental frequency, RBW, VBW and span to applicable value with Peak in max hold, a Peak output reading and 20 db Bandwidth function in spectrum analyzer were taken.

2.3.4. Test Result

Frequency (MHz)	20 dB Bandwidth (kHz)	Limits (MHz)	Verdict
345	23.41	≤0.8625	PASS

Test Plot:



(Bandwidth)

2.4. Conducted Emission

2.4.1. Requirement

According to FCC section 15.207, 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 within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μH/50 Ω line impedance stabilization network (LISN).

Frequency Range (MHz)	Conducted Limit (dBμV)	
	Quai-peak	Average
0.15–0.50	66 to 56	56 to 46
0.50–5	56	46
5–30	60	50

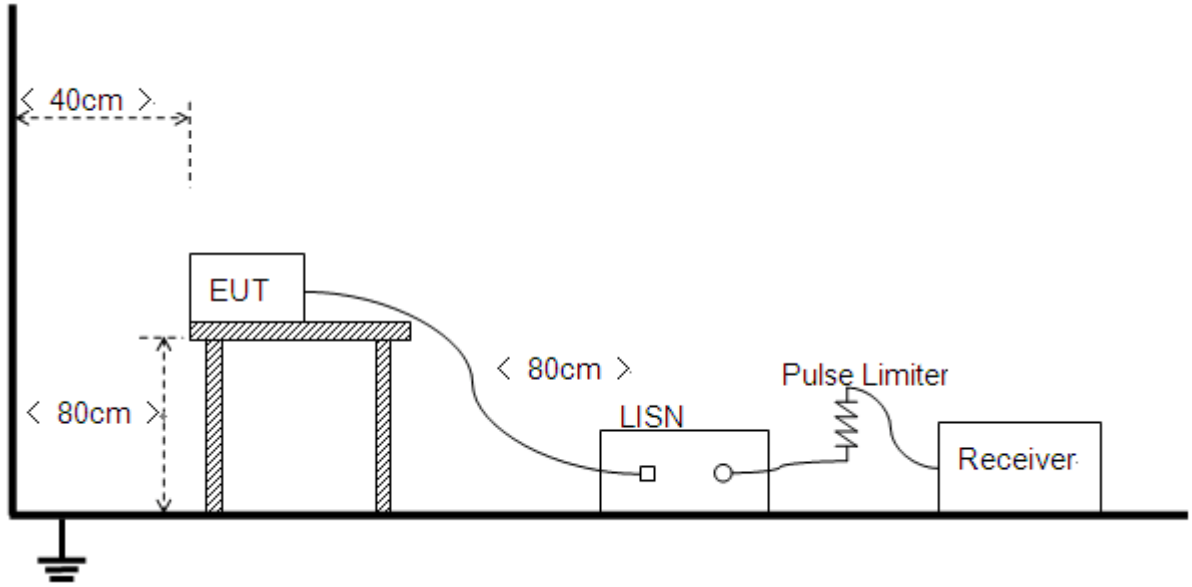
Note:

(a) The lower limit shall apply at the band edges.

(b) The limit decreases linearly with the logarithm of the frequency in the range 0.15–0.50 MHz.

2.4.2. Test Description

Test Setup:



The Table-top EUT was placed upon a non-metallic table 0.8 m above the horizontal metal reference ground plane. EUT was connected to LISN and LISN was connected to reference Ground Plane. EUT was 80 cm from LISN. The set-up and test methods were according to ANSI C63.10: 2013.

2.4.3. Test Result

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Set RBW=9kHz, VBW=30kHz. Refer to recorded points and plots below.

Note: Both of the test voltage AC 120V/60Hz and AC 230V/50Hz were considered and tested respectively, only the results of the worst case AC 120V/60Hz were recorded in this report.

A.Test Setup:

Test Mode: EUT+Adapter+Battery+PC+Serial port board+345MHz TX

Test voltage: AC 120V/60Hz

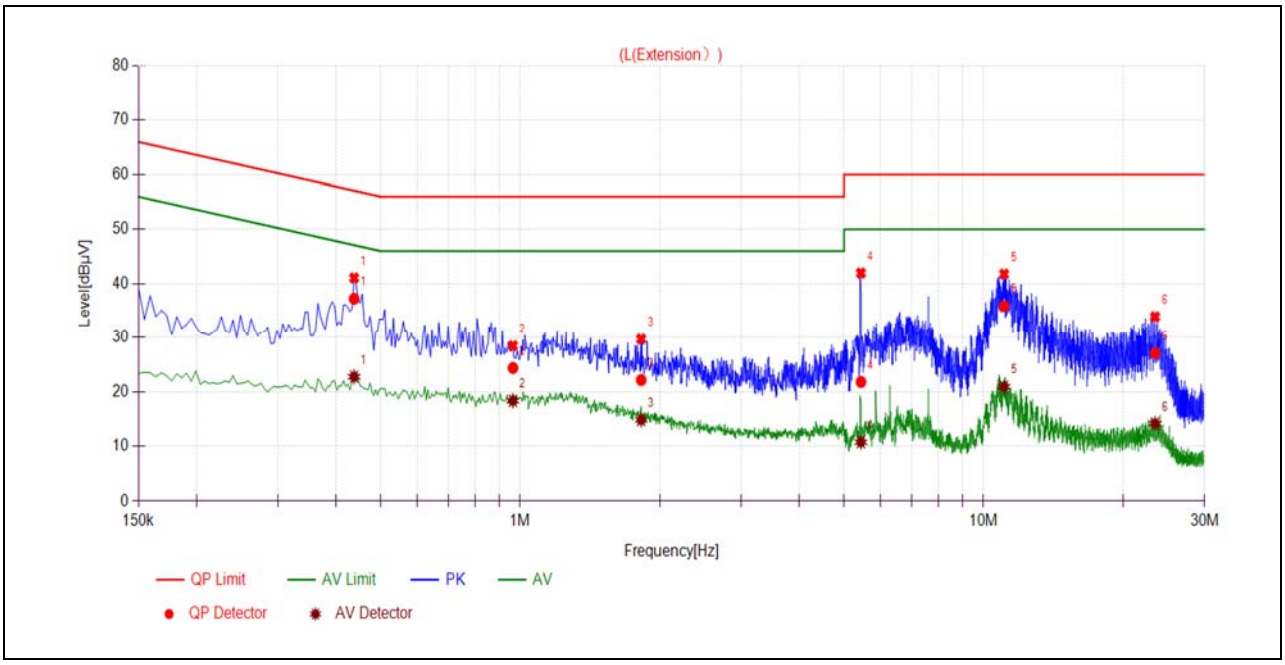
The measurement results are obtained as below:

$E\ [dB\mu V] = U_R + L_{Cable\ loss}\ [dB] + A_{Factor}$

U_R: Receiver Reading

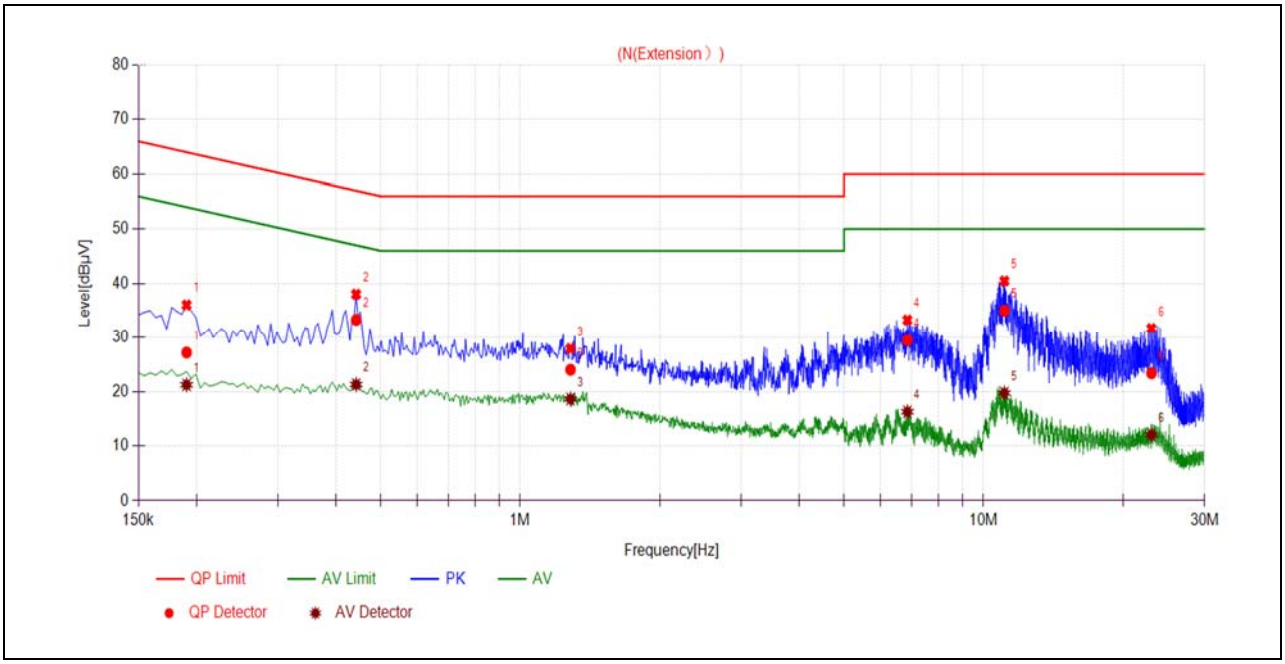
A_{Factor}: Voltage division factor of LISN

B.Test Plot:



(L Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.4380	37.23	22.73	57.10	47.10	Line	PASS
2	0.9645	24.34	18.32	56.00	46.00		PASS
3	1.8241	22.13	14.80	56.00	46.00		PASS
4	5.4379	21.78	10.72	60.00	50.00		PASS
5	11.0756	35.85	20.90	60.00	50.00		PASS
6	23.4653	27.06	14.12	60.00	50.00		PASS



(N Phase)

No.	Fre. (MHz)	Emission Level (dBµV)		Limit (dBµV)		Power-line	Verdict
		Quai-peak	Average	Quai-peak	Average		
1	0.1905	27.19	21.22	64.02	54.02	Neutral	PASS
2	0.4425	33.31	21.28	57.01	47.01		PASS
3	1.2840	24.01	18.61	56.00	46.00		PASS
4	6.8511	29.48	16.26	60.00	50.00		PASS
5	11.0938	35.03	19.71	60.00	50.00		PASS
6	23.0337	23.37	12.02	60.00	50.00		PASS

2.5. Radiated Emission

2.5.1. Requirement

According to FCC section 15.247(d), radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
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

FCC Part 15.231(b)

Fundamental frequency (MHz)	Field strength of fundamental (microvolts/meter)	Field strength of spurious emission (microvolts/meter)
40.66–40.70	2250	225
70–130	1250	125
130–174	1250 to 3750	125 to 375
174–260	3750	375
260–470	3750 to 12500	375 to 1250
Above 470	12500	1250

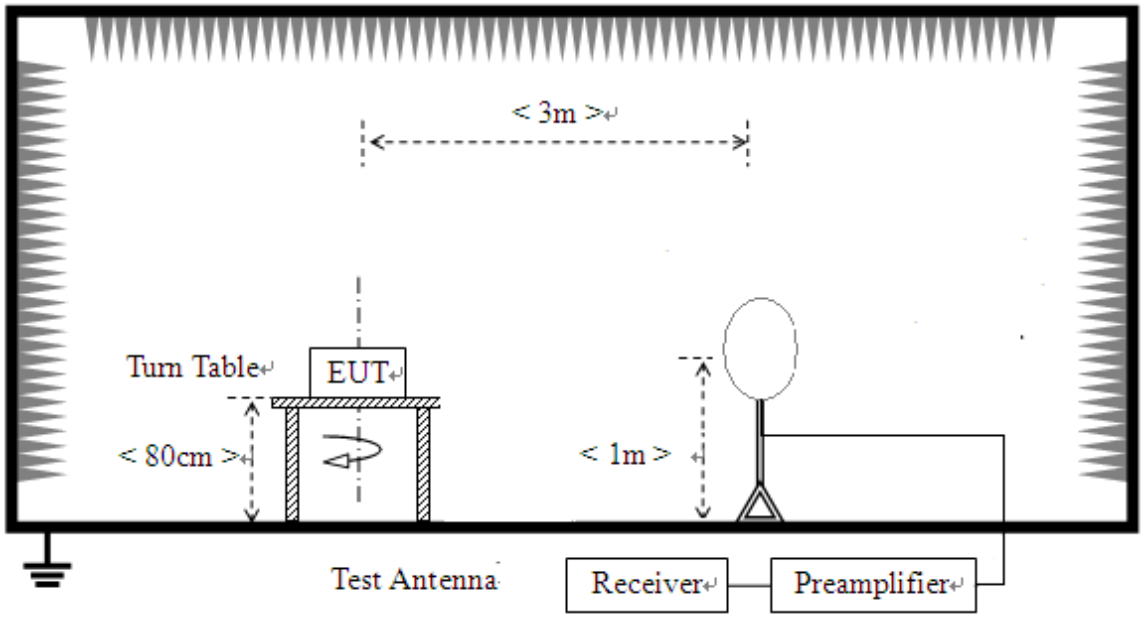
Note 1: For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
Note 2: For above 1000 MHz, limit field strength of harmonics: 54 dBuV/m@3m (AV) and 74 dBuV/m@3m (PK)

In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), also should comply with the radiated emission limits specified in Section 15.209(a)(above table).

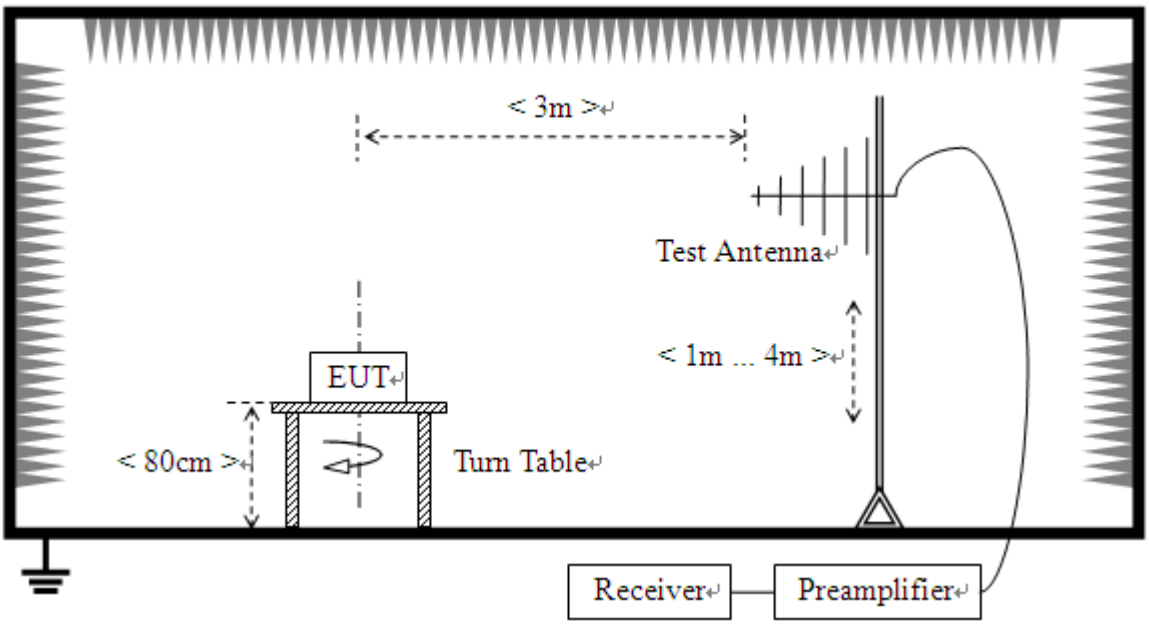
2.5.2. Test Description

Test Setup:

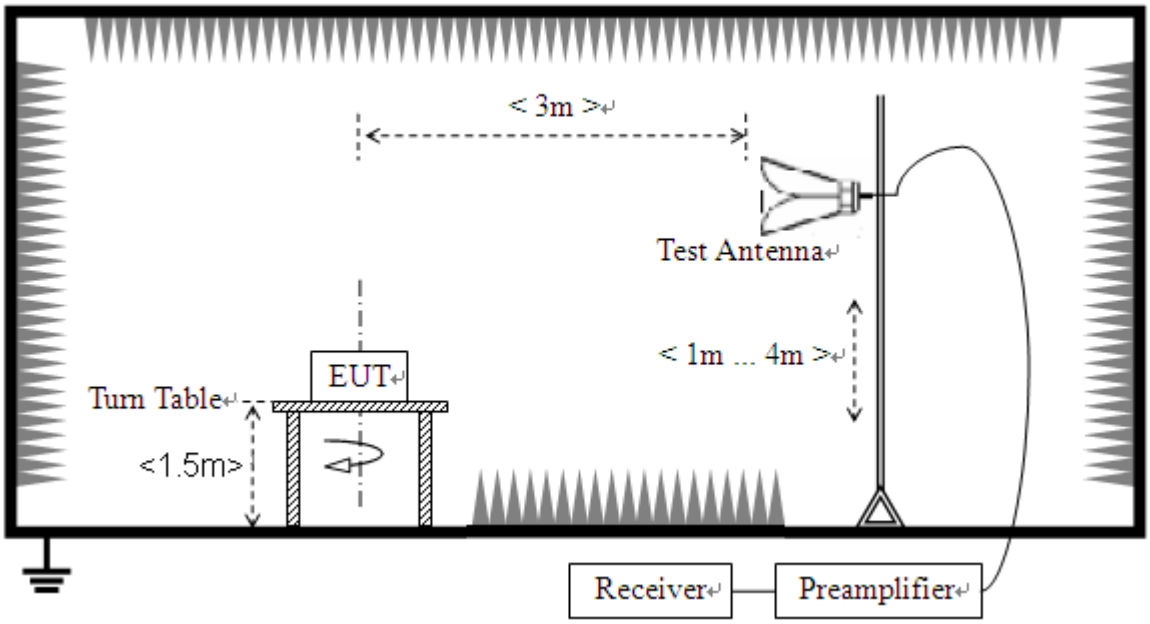
1) For radiated emissions from 9 kHz to 30 MHz



2) For radiated emissions from 30 MHz to1 GHz



3) For radiated emissions above 1 GHz



The EUT is placed on a non-conducting table 80 cm above the ground plane for measurement below 1 GHz; 1.5 m above the ground plane for measurement above 1 GHz. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.10. The EUT is set to transmit in a continuous mode.

For measurements below 30 MHz, the emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9 kHz to 90 kHz, 110 kHz to 490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, the video band width is set to 3 MHz for peak measurements and as applicable for average measurements.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

2.5.3. Test Result

According to ANSI C63.10, because of peak detection will yield amplitudes equal to or greater than amplitudes measured with the quasi-peak (or average) detector, the measurement data from a spectrum analyzer peak detector will represent the worst-case results, if the peak measured value complies with the quasi-peak (or average) limit, it is unnecessary to perform an quasi-peak measurement (or average).

The measurement results are obtained as below:

$E\ [dB\mu V/m] = U_R + A_T + A_{Factor}\ [dB]$; $A_T = L_{Cable\ loss}\ [dB] - G_{preamp}\ [dB]$

A_T: Total correction Factor except Antenna

U_R: Receiver Reading

G_{preamp}: Preamplifier Gain

A_{Factor}: Antenna Factor at 3 m

During the test, the total correction Factor A_T and A_{Factor} were built in test software.

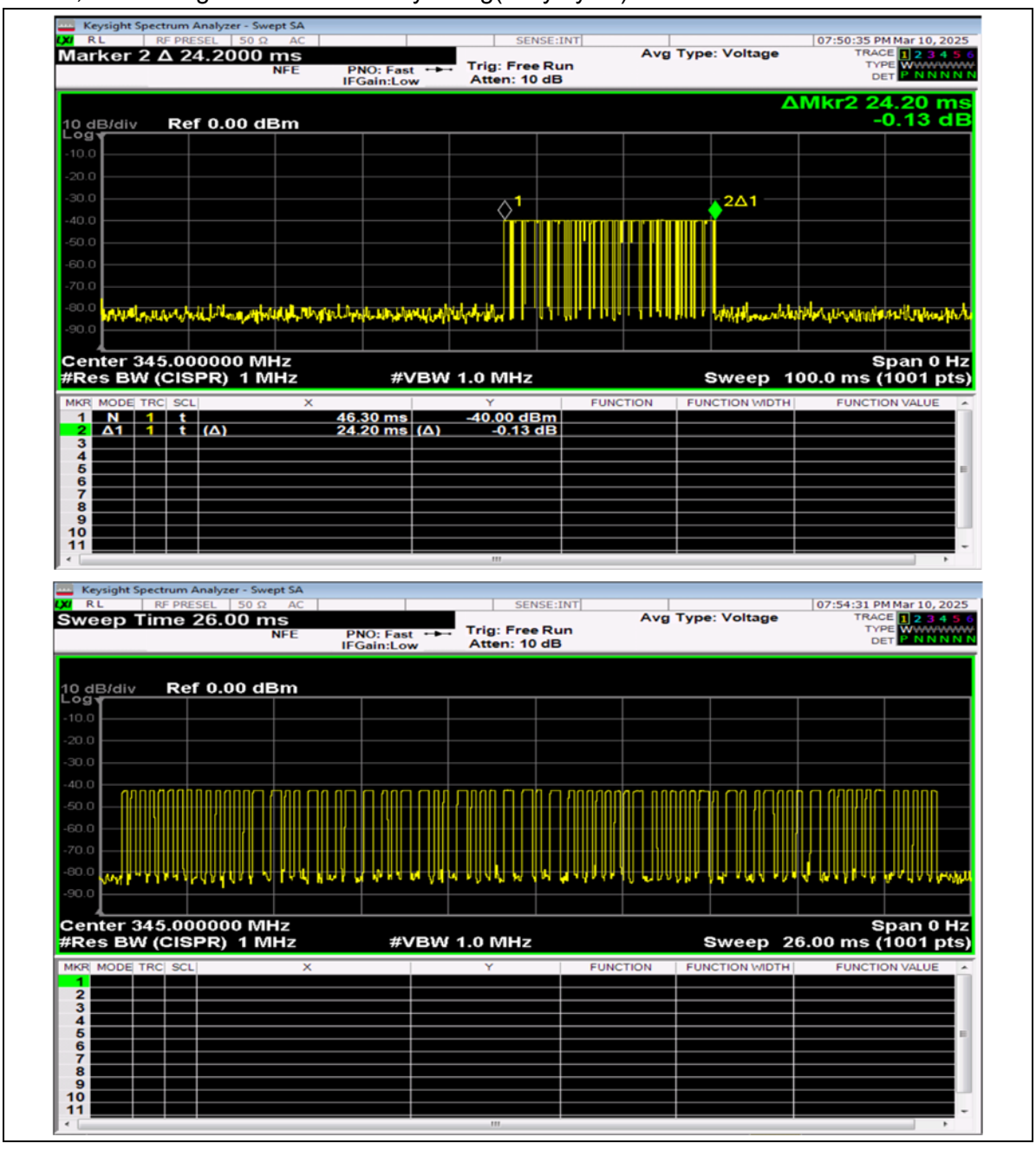
Note1: All radiated emission tests were performed in X, Y, Z axis direction. And only the worst axis (Y axis) test condition was recorded in this test report.

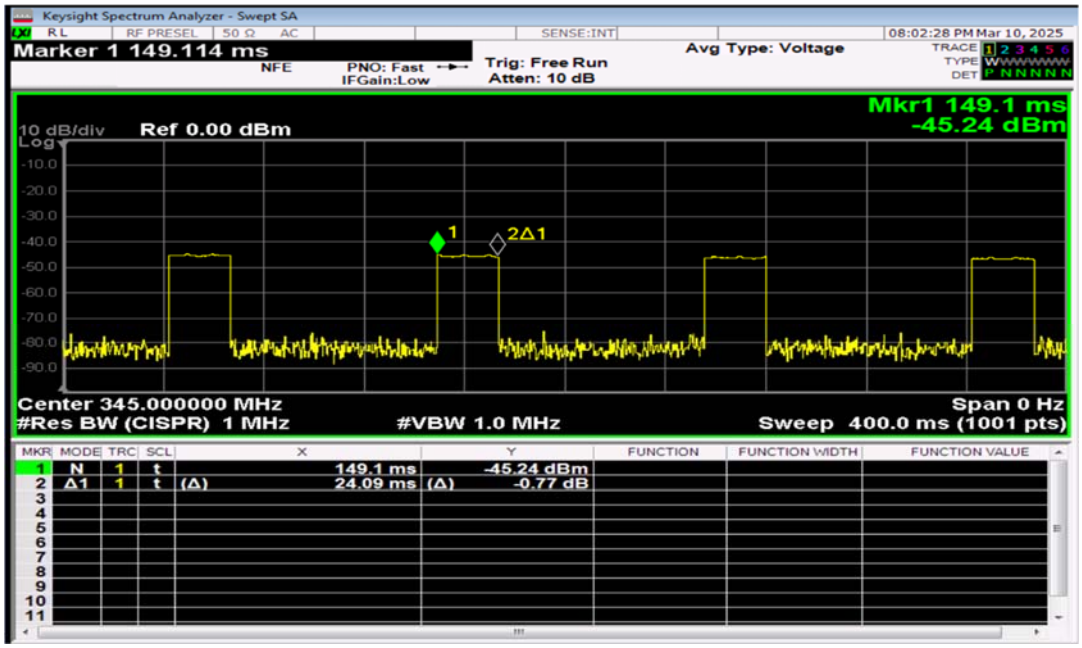
Note2: For the frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit was not recorded.

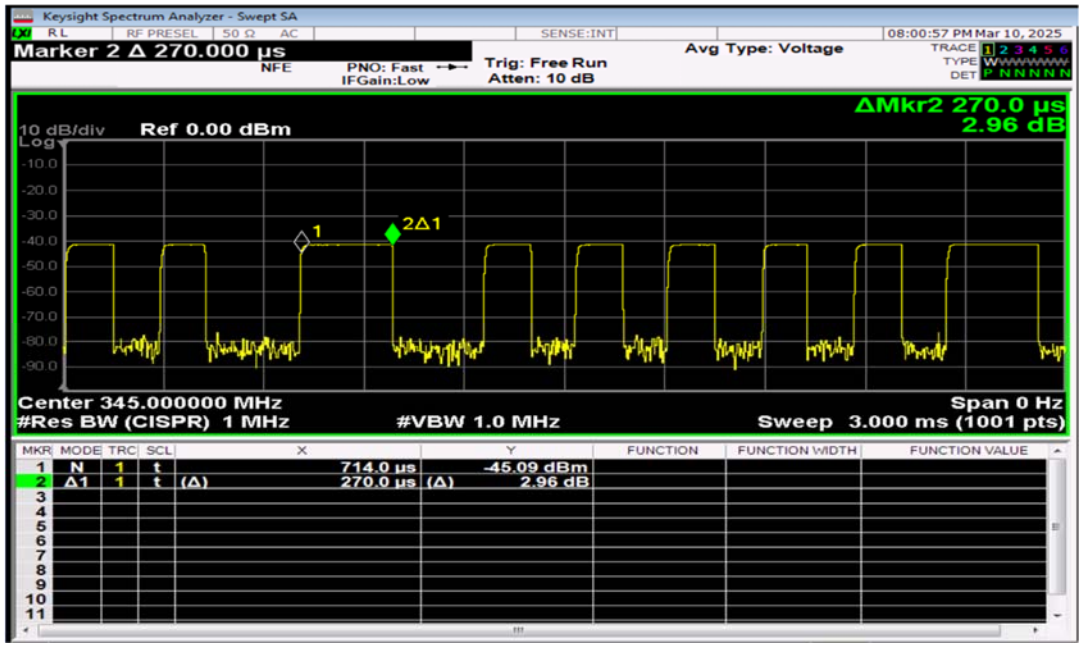
The duty cycle is simply the on-time divided by the period:

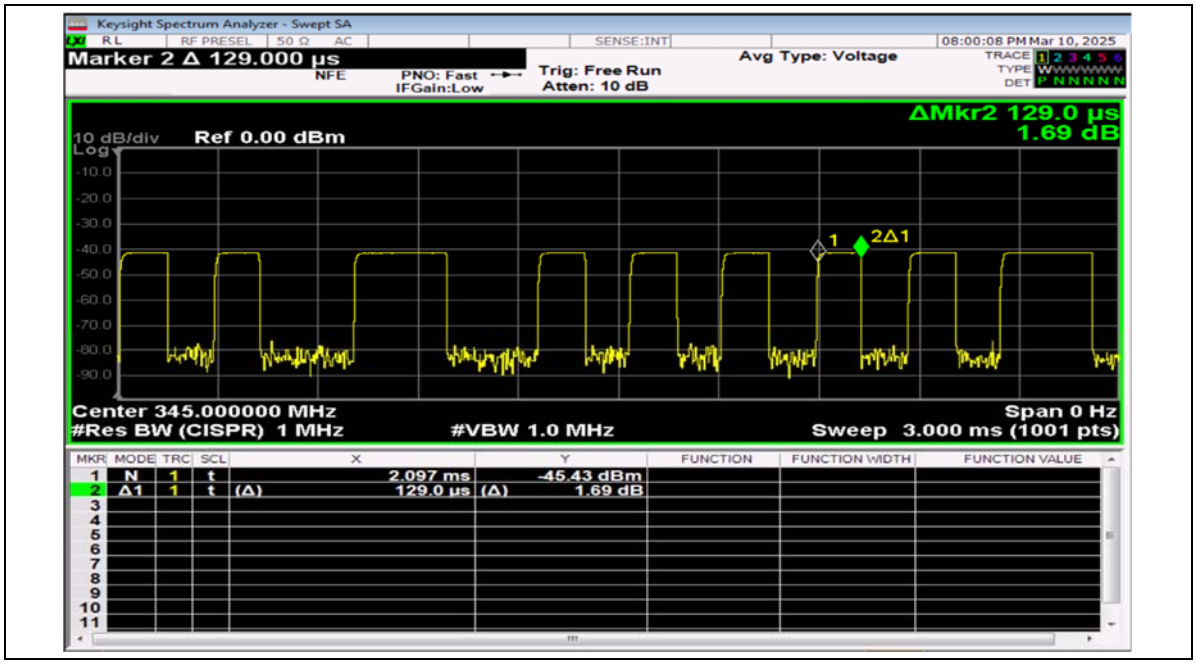
Ton (ms):	55*0.129 ms + 17*0.27 ms = 11.685
Ton+Toff (ms):	100
Duty cycle (%):	11.685

Therefore, the average factor is found by 20log(Duty cycle) = -18.64 dB




Keysight Spectrum Analyzer - Swept SA
Marker 1 149.114 ms
NFE
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Voltage
08:02:28 PM Mar 10, 2025
Mkr1 149.1 ms
-45.24 dBm
10 dB/div
Ref 0.00 dBm
Log
Center 345.000000 MHz
#Res BW (CISPR) 1 MHz
#VBW 1.0 MHz
Span 0 Hz
Sweep 400.0 ms (1001 pts)
1 N 1 t 149.1 ms -45.24 dBm
2 Δ1 1 t (Δ) 24.09 ms (Δ) -0.77 dB


Keysight Spectrum Analyzer - Swept SA
Marker 2 Δ 270.000 µs
NFE
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Voltage
08:00:57 PM Mar 10, 2025
ΔMkr2 270.0 µs
2.96 dB
10 dB/div
Ref 0.00 dBm
Log
Center 345.000000 MHz
#Res BW (CISPR) 1 MHz
#VBW 1.0 MHz
Span 0 Hz
Sweep 3.000 ms (1001 pts)
1 N 1 t 714.0 µs -45.09 dBm
2 Δ1 1 t (Δ) 270.0 µs (Δ) 2.96 dB

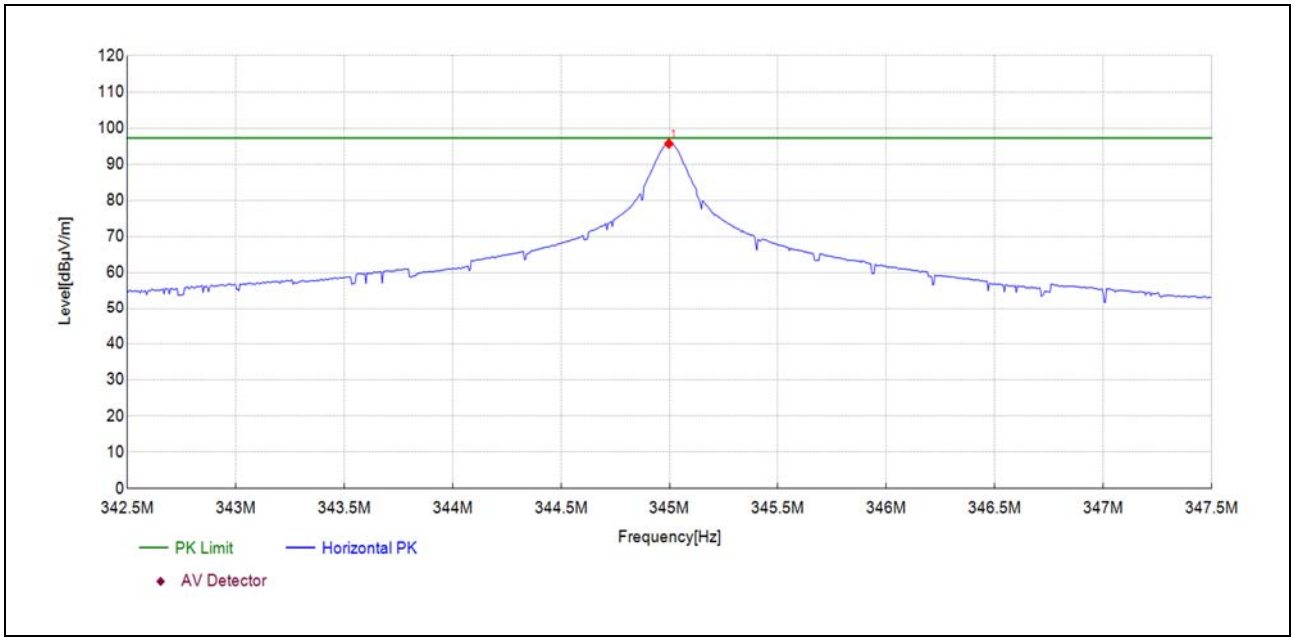

Keysight Spectrum Analyzer - Swept SA
RL
RF PRESEL
50 Ω AC
SENSE:INT
08:00:08 PM Mar 10, 2025
Marker 2 Δ 129.000 µs
NFE
PNO: Fast
IFGain:Low
Trig: Free Run
Atten: 10 dB
Avg Type: Voltage
TRACE 1 2 3 4 5 6
TYPE WWWWW
DET P N N N N N
ΔMkr2 129.0 µs
1.69 dB
10 dB/div
Log
Ref 0.00 dBm
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
-80.0
-90.0
1
2Δ1
Center 345.000000 MHz
#Res BW (CISPR) 1 MHz
#VBW 1.0 MHz
Span 0 Hz
Sweep 3.000 ms (1001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 t 2.097 ms -45.43 dBm
2 Δ1 1 t (Δ) 129.0 µs (Δ) 1.69 dB
3
4
5
6
7
8
9
10
11

(Duty cycle)

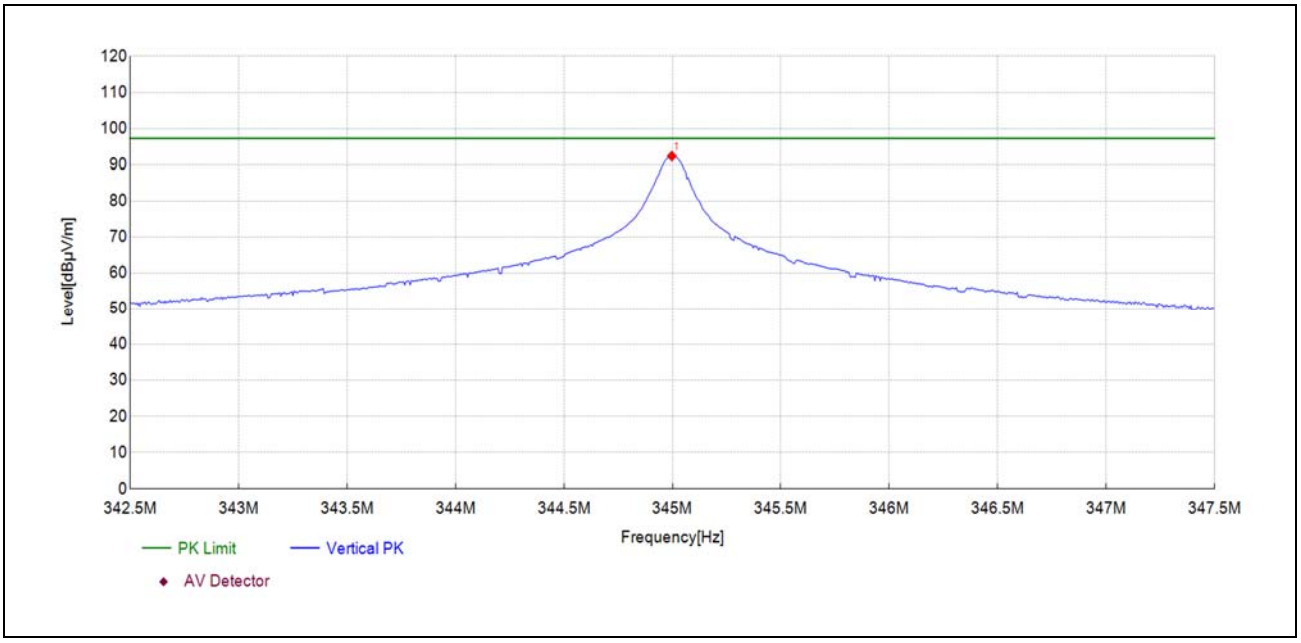
A. Field strength of fundamental

Fre. (MHz)	ANT	Receiver Reading U_R(PK) (dBuV)	A_{Factor} (dB@ 3m)	Final Emission _PK (dBuV/m)	Limit-PK (dBμV/m)	AV factor (dB)	Final Emission _AV (dBuV/m)	Limit-AV (dBμV/m)	Verdict
345	H	78.00	17.67	95.67	97.25	-18.64	77.03	77.25	PASS
345	V	74.70	17.67	92.37	97.25	-18.64	73.73	77.25	PASS

Test Plot:

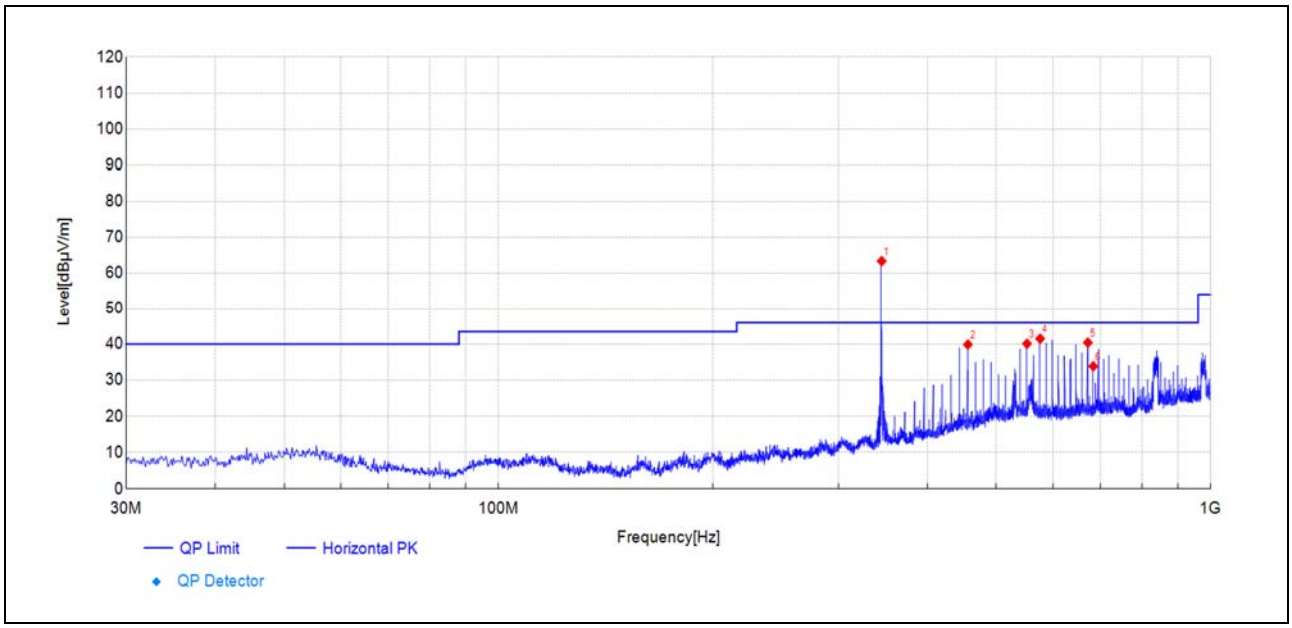


(Antenna Horizontal)



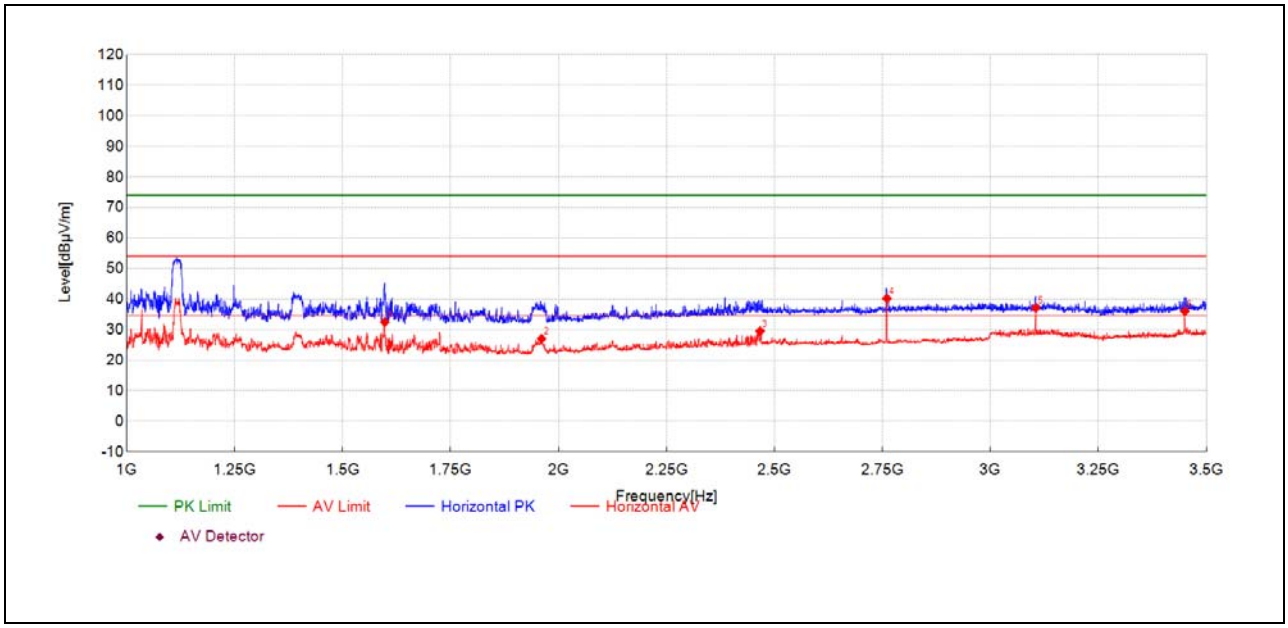
(Antenna Vertical)

B. Radiated emission



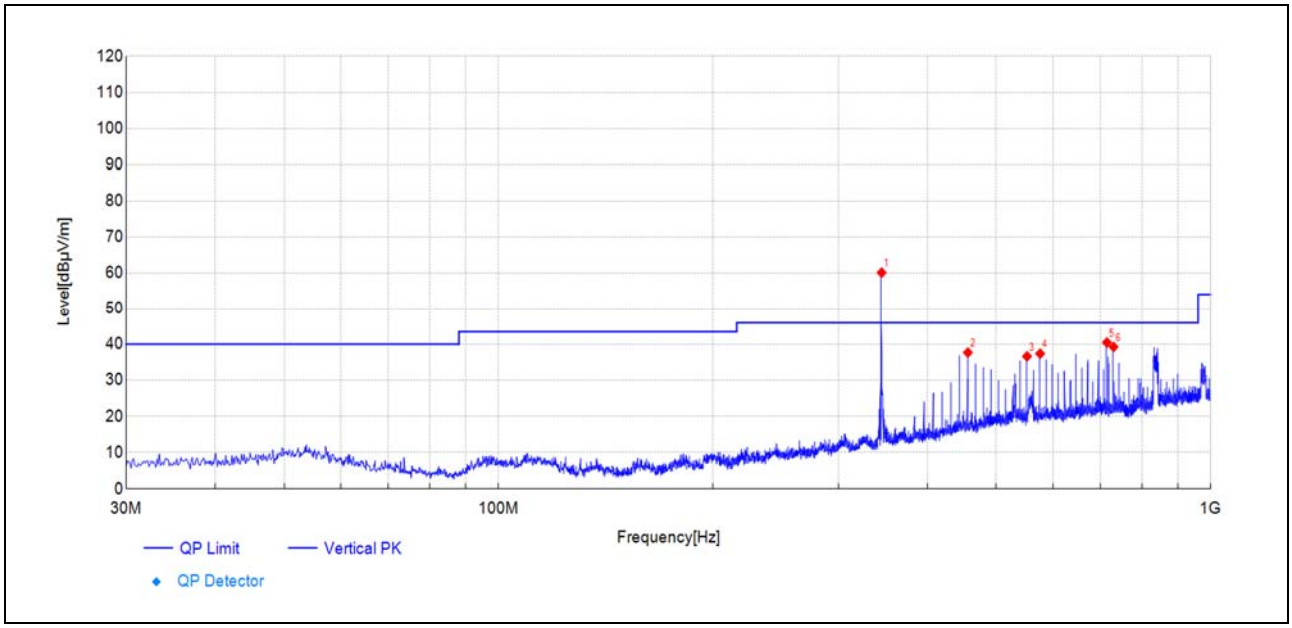
(Antenna Horizontal, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
345.05	87.5	63.37	-24.120	-	-	150	85	PK	NA
456.00	61.5	39.91	-21.590	46.00	6.09	150	151	PK	PASS
552.05	59.5	40.13	-19.410	46.00	5.87	150	249	PK	PASS
576.06	59.6	41.52	-18.040	46.00	4.48	150	142	PK	PASS
672.10	56.6	40.42	-16.190	46.00	5.58	150	23	PK	PASS
683.98	50.3	33.87	-16.390	46.00	12.13	150	18	PK	PASS



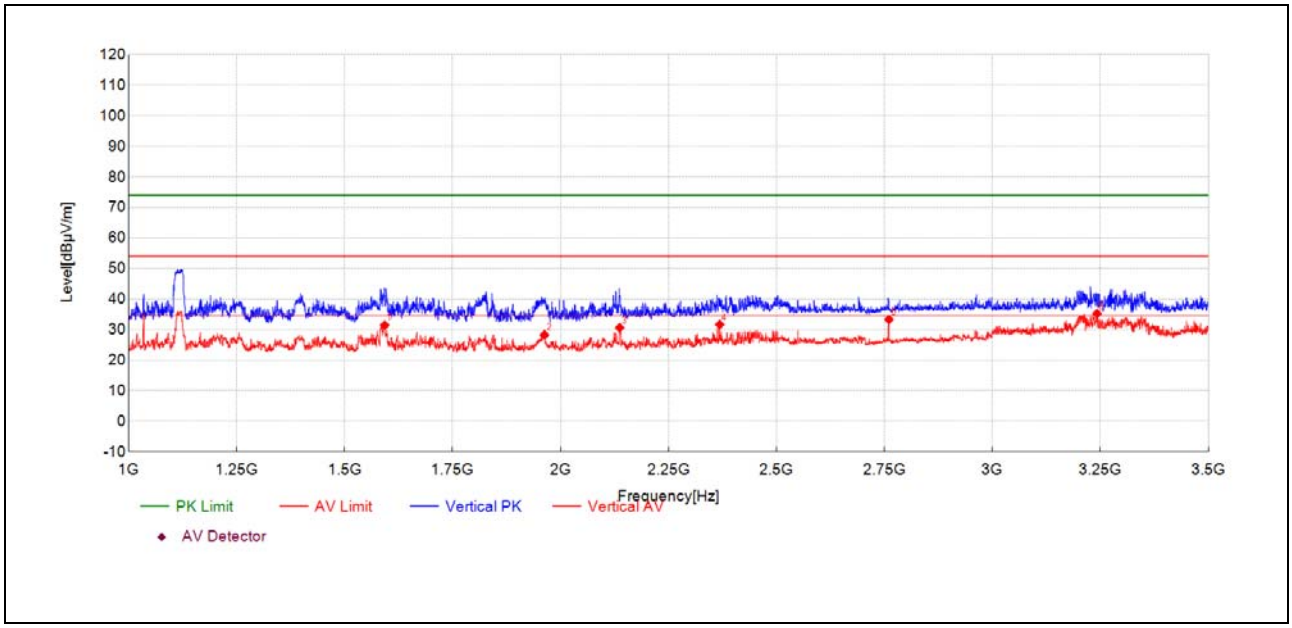
(Antenna Horizontal, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1597.71	52.2	32.47	-19.740	54.00	21.53	150	41	AV	PASS
1960.72	44.6	27.05	-17.570	54.00	26.95	150	152	AV	PASS
2466.70	42.9	29.52	-13.380	54.00	24.48	150	194	AV	PASS
2760.43	53.0	40.22	-12.730	54.00	13.78	150	167	AV	PASS
3105.49	47.9	37.14	-10.710	54.00	16.86	150	194	AV	PASS
3450.50	45.5	36.05	-9.420	54.00	17.95	150	207	AV	PASS



(Antenna Vertical, 30MHz to 1GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
345.05	84.3	60.14	-24.120	-	-	150	311	PK	NA
456.00	59.3	37.68	-21.590	46.00	8.32	150	198	PK	PASS
552.05	56.0	36.62	-19.410	46.00	9.38	150	2	PK	PASS
576.06	55.4	37.38	-18.040	46.00	8.62	150	18	PK	PASS
714.78	56.1	40.47	-15.620	46.00	5.53	150	351	PK	PASS
730.31	54.9	39.25	-15.640	46.00	6.75	150	298	PK	PASS



(Antenna Vertical, 1GHz to 18GHz)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
1592.83	51.2	31.46	-19.760	54.00	22.54	150	161	AV	PASS
1962.67	45.8	28.29	-17.550	54.00	25.71	150	56	AV	PASS
2136.86	46.8	30.60	-16.200	54.00	23.40	150	87	AV	PASS
2368.63	46.1	31.69	-14.450	54.00	22.31	150	129	AV	PASS
2760.43	46.1	33.33	-12.730	54.00	20.67	150	140	AV	PASS
3242.43	46.5	35.29	-11.240	54.00	18.71	150	70	AV	PASS

2.6. Restricted Frequency Bands

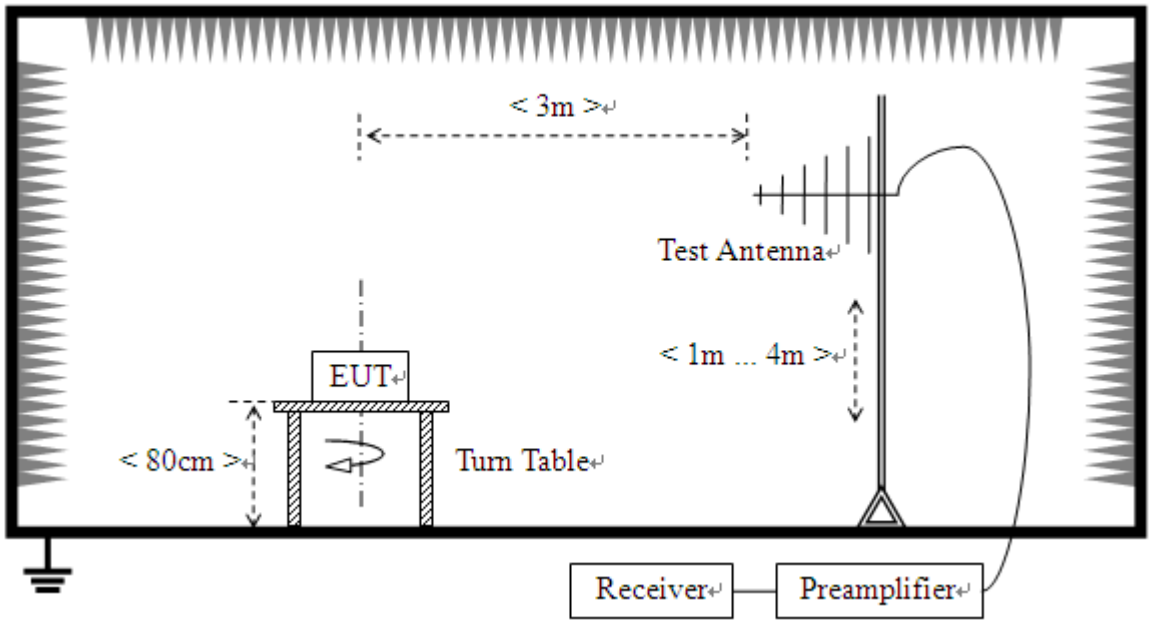
2.6.1. Requirement

Except as shown in paragraph (d) of section 15.205(d), only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090–0.110	16.42–16.423	399.9–410	4.5–5.15
1 0.495–0.505	16.69475–16.69525	608–614	5.35–5.46
2.1735–2.1905	16.80425–16.80475	960–1240	7.25–7.75
4.125–4.128	25.5–25.67	1300–1427	8.025–8.5
4.17725–4.17775	37.5–38.25	1435–1626.5	9.0–9.2
4.20725–4.20775	73–74.6	1645.5–1646.5	9.3–9.5
6.215–6.218	74.8–75.2	1660–1710	10.6–12.7
6.26775–6.26825	108–121.94	1718.8–1722.2	13.25–13.4
6.31175–6.31225	123–138	2200–2300	14.47–14.5
8.291–8.294	149.9–150.05	2310–2390	15.35–16.2
8.362–8.366	156.52475–156.52525	2483.5–2500	17.7–21.4
8.37625–8.38675	156.7–156.9	2690–2900	22.01–23.12
8.41425–8.41475	162.0125–167.17	3260–3267	23.6–24.0
12.29–12.293	167.72–173.2	3332–3339	31.2–31.8
12.51975–12.52025	240–285	3345.8–3358	36.43–36.5
12.57675–12.57725	322–335.4	3600–4400	([2])
13.36–13.41			

2.6.2. Test Description

1) Test Setup

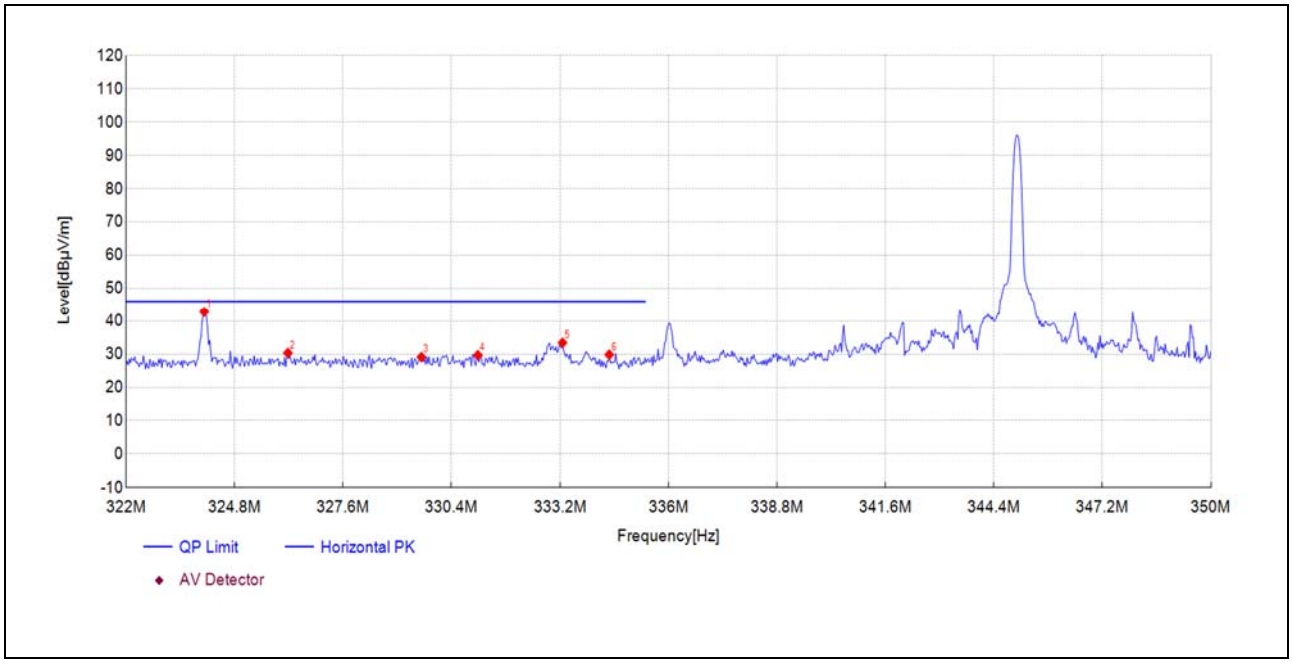


The EUT is located in a 3 m Semi-Anechoic Chamber; the antenna factors, cable loss and so on of the site as factors are calculated to correct the reading.

For the Test Antenna:
Test Antenna is 3 m away from the EUT. Test Antenna height is varied from 1 m to 4 m above the ground to determine the maximum value of the field strength.

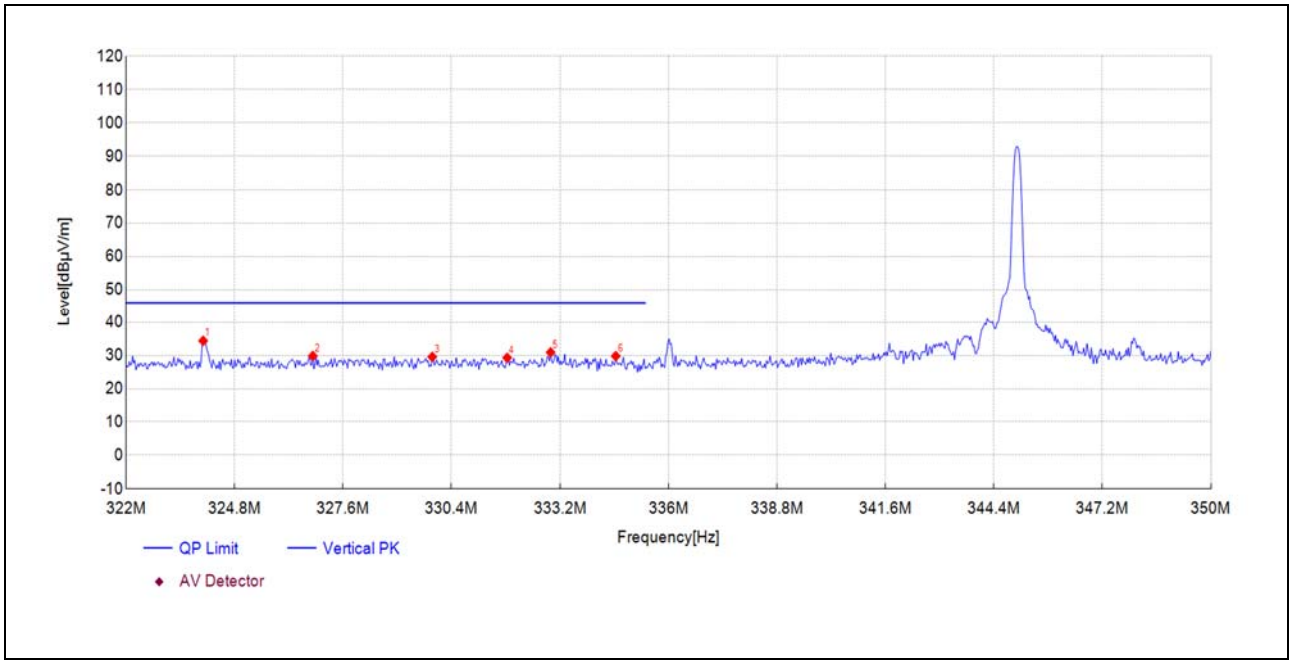
2.6.3. Test Result

Note: All emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition (Y axis) was recorded in this test report.



(Antenna Horizontal)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
324.02	25.6	42.78	17.160	46.00	3.22	150	90	PK	PASS
326.18	13.0	30.30	17.310	46.00	15.70	150	259	PK	PASS
329.62	11.5	29.07	17.600	46.00	16.93	150	335	PK	PASS
331.08	12.1	29.66	17.520	46.00	16.34	150	328	PK	PASS
333.27	16.1	33.38	17.310	46.00	12.62	150	71	PK	PASS
334.47	12.6	29.81	17.190	46.00	16.19	150	131	PK	PASS



(Antenna Vertical)

Fre. (MHz)	Reading [dBµV]	Level [dBµV/m]	Factor [dB/m]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Detector	Verdict
323.99	17.2	34.36	17.160	46.00	11.64	150	349	PK	PASS
326.82	12.4	29.81	17.370	46.00	16.19	150	341	PK	PASS
329.90	11.9	29.52	17.620	46.00	16.48	150	329	PK	PASS
331.84	11.8	29.25	17.460	46.00	16.75	150	257	PK	PASS
332.96	13.5	30.87	17.340	46.00	15.13	150	9	PK	PASS
334.64	12.6	29.77	17.180	46.00	16.23	150	85	PK	PASS

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test Items	Uncertainty
20 dB Bandwidth	±5%
Transmission Time	±5%
Radiated Emission	±2.95 dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
EXA Signal Analyzer	MY53470836	N9010A	Agilent	2025.01.15	2026.01.14
RF Cable (30MHz-26GHz)	CB01	RF01	Morlab	N/A	N/A
Coaxial Cable	CB02	RF02	Morlab	N/A	N/A
SMA Connector	CN01	RF03	HUBER-SUHNER	N/A	N/A
USB Wideband Power Sensor	MY54180008	U2021XA	Agilent	2024.09.11	2025.09.10

4.2 List of Software Used

Description	Manufacturer	Software Version
Test System	Tonscend	V2.5.77.0418
JS32-RE	Tonscend	5.0.0

4.3Radiated Test Equipment

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
Signal Analyzer	MY56060145	N9020A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Loop	1519-022	FMZB1519	Schwarzbeck	2024.06.03	2025.06.02
Test Antenna – Horn	01774	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna – Horn	BBHA9170 #773	BBHA9170	Schwarzbeck	2024.06.22	2025.06.21
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2024.07.03	2025.07.02
Notch Filter	N/A	WRCG-2400-2483.5-60SS	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

END OF REPORT