



RF MEASUREMENT REPORT

FCC ID: 2AU4M-SR30

Applicant: Wuhan Qiwu Technology Co., Ltd.

Product: SMART RADAR TAILLIGHT

Model No.: SRTL SR30

Serial Model No.: SRTL SR30S, SRTL SR31, SRTL SR32, SRTL SR10, SRTL SR10S, SRTL SR20, SRTL SR20S

Brand Name: iGPSPORT

FCC Classification: Part 15 Low Power Communication Device Transmitter (DXX)

FCC Rule Part(s): Part 15.249

Test Procedure(s): ANSI C63.10 - 2013

Result: Complies

Received Date: 2023-06-27

Test Date: 2023-07-29 ~ 2023-08-24

Reviewed By:

Jame Yuan

Approved By:

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in ANSI C63.10-2013. Test results reported herein relate only to the item(s) tested.

The test report shall not be reproduced except in full without the written approval of MRT Technology (Suzhou) Co., Ltd.

Revision History

Report No.	Version	Description	Issue Date	Note
2306RSU044-U1	V01	Initial Report	2023-09-11	Valid

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1. General Information

1.1. Applicant

Wuhan Qiwu Technology Co., Ltd.

3 / F, Creative workshop, No.04, District D, Creative world, No.16 Yezhihu West Road, Hongshan District, Wuhan City, Hubei Province, China.

1.2. Manufacturer

Wuhan Qiwu Technology Co., Ltd.

3 / F, Creative workshop, No.04, District D, Creative world, No.16 Yezhihu West Road, Hongshan District, Wuhan City, Hubei Province, China.

1.3. Testing Facility

☒	Test Site – MRT Suzhou Laboratory Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China Laboratory Accreditations A2LA: 3628.01 CNAS: L10551 FCC: CN1166 ISED: CN0001 VCCI: ☐ R-20025 ☐ G-20034 ☐ C-20020 ☐ T-20020 ☐ R-20141 ☐ G-20134 ☐ C-20103 ☐ T-20104
☐	Test Site – MRT Shenzhen Laboratory Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China Laboratory Accreditations A2LA: 3628.02 CNAS: L10551 FCC: CN1284 ISED: CN0105
☐	Test Site – MRT Taiwan Laboratory Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.) Laboratory Accreditations TAF: 3261 FCC: 291082, TW3261 ISED: TW3261

1.4. Product Information

Product Name	SMART RADAR TAILLIGHT
Model No.	SRTL SR30
Serial Model No.	SRTL SR30S, SRTL SR31, SRTL SR32, SRTL SR10, SRTL SR10S, SRTL SR20, SRTL SR20S
EUT Serial No.	L303600072
Radio Specification	24G Radar
Temperature	-10°C - 50°C
Power Supply	Battery : DC 3.7V Type-C : DC 5V
Accessories	
Battery	Model: QW523070 Rated Capacity: 1400mAh, 5.18Wh Rated Voltage: 3.7Vdc
Remark: 1. The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer. 2. All models are the same circuit and RF module, except the model names.	

1.5. Radio Specification

Frequency Range	24.00 ~ 24.25GHz
Type of Modulation	FMCW
Antenna Type	Array Antenna
Antenna Gain	12.64 dBi
Antenna Size	15mm * 44mm

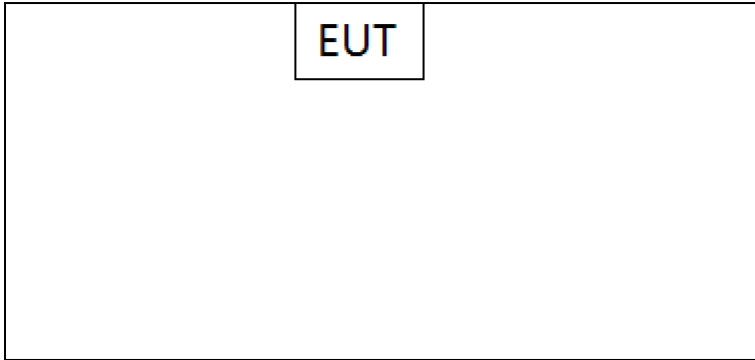
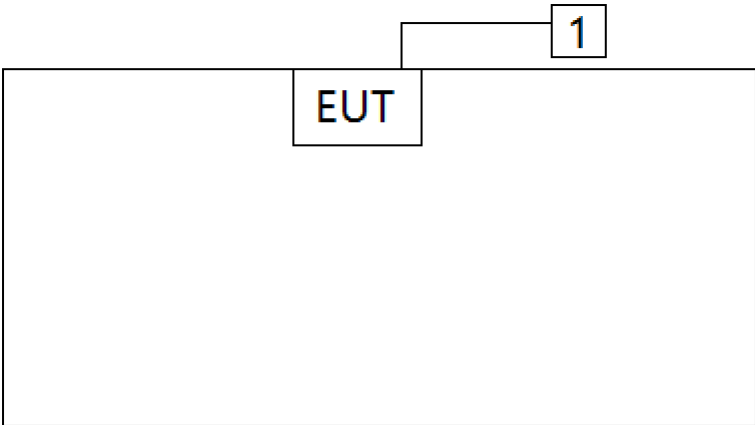
2. Test Configuration

2.1. Test Mode

Mode 1: Transmitter at channel 24.055GHz (24.025 ~ 24.085GHz)
Mode 2: Transmitter at channel 24.155GHz (24.125 ~ 24.185GHz)
Mode 3: Transmitter at channel 24.195GHz (24.165 ~ 24.225GHz)

2.2. Test Configuration

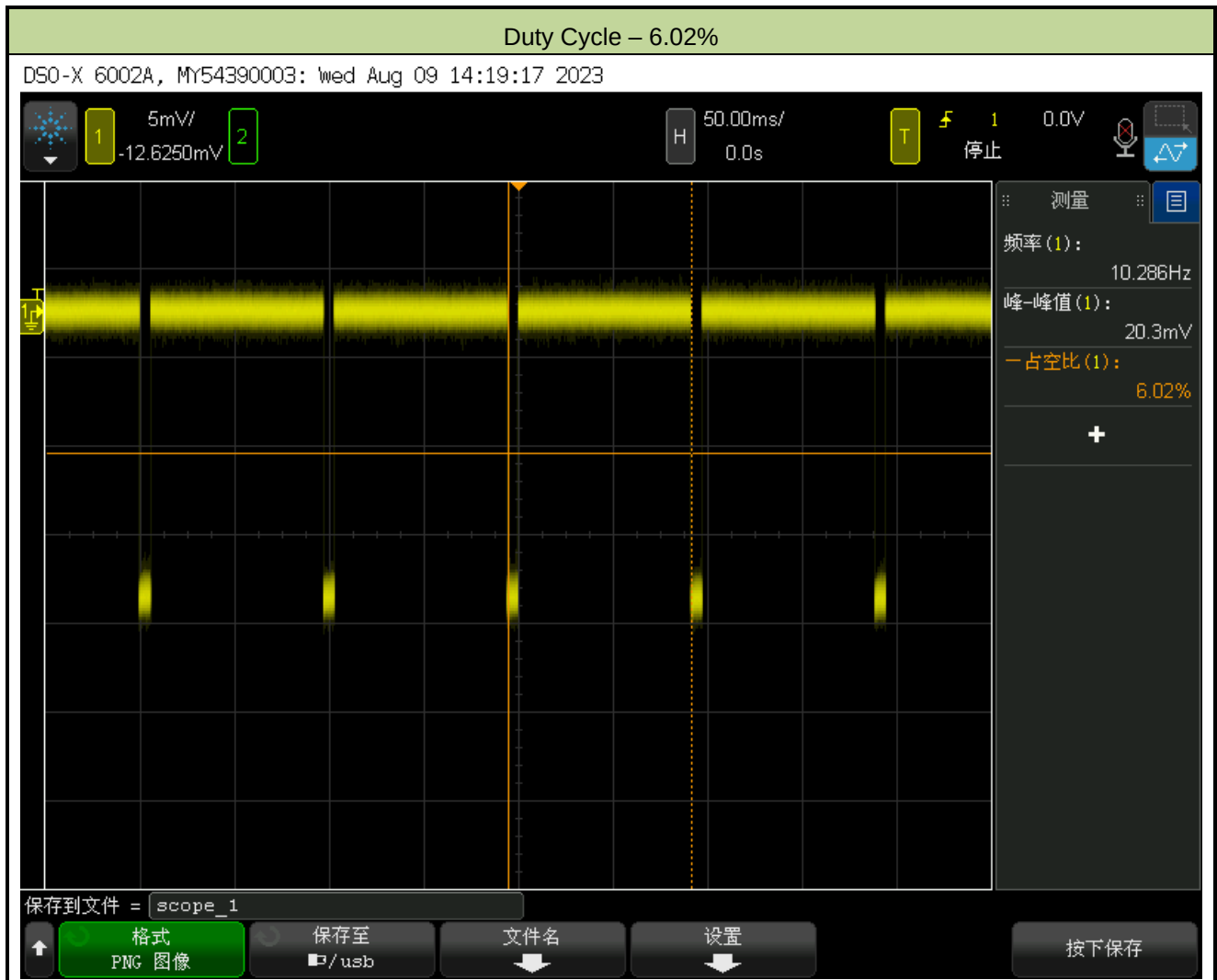
This device was tested per the guidance ANSI C63.10:2013 was used to reference the appropriate EUT setup for radiated emissions testing.

Connection Diagram – Radiated Emission testing			
			
Connection Diagram – AC Conducted Emissions			
			
Product	Manufacturer		Model No.
1	Adapter	Jiangsu Chenyang Electron Co.,Ltd.	UC13US

2.3. Test Environment Condition

Ambient Temperature	15 ~ 35°C
Relative Humidity	20 ~ 75%RH

2.4. Duty Cycle



3. Antenna Requirements

Excerpt from §15.203 of the FCC Rules/Regulations:

“An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can 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.”

- The antenna of the device is **permanently attached**.
- There are no provisions for connection to an external antenna.

Conclusion:

This unit complies with the requirement of §15.203.

4. Measuring Instrument

Instrument	Manufacturer	Model No.	Asset No.	Cali. Interval	Cali. Due Date	Test Site
EMI Test Receiver	R&S	ESR3	MRTSUE06185	1 year	2023-12-28	SIP-AC2
Signal Analyzer	Keysight	N9030B	MRTSUE06395	1 year	2024-06-29	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9170	MRTSUE06598	1 year	2023-11-05	SIP-AC2
Preamplifier	EMCI	EMC051845SE	MRTSUE06601	1 year	2023-11-22	SIP-AC2
Preamplifier	EMCI	EMC184045SE	MRTSUE06602	1 year	2023-10-10	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06623	1 year	2023-11-27	SIP-AC2
Thermohygrometer	testo	608-H1	MRTSUE06624	1 year	2023-11-27	SIP-AC2
TRILOG Antenna	Schwarzbeck	VULB 9168	MRTSUE06647	1 year	2024-06-17	SIP-AC2
Horn Antenna	Schwarzbeck	BBHA 9120D	MRTSUE06648	1 year	2023-10-22	SIP-AC2
Anechoic Chamber	RIKEN	SIP-AC2	MRTSUE06781	1 year	2023-12-22	SIP-AC2
Loop Antenna	Schwarzbeck	FMZB 1519 B	MRTSUE06937	1 year	2024-02-26	SIP-AC2
Waveguide Harmonic Mixer	Keysight	M1970V	MRTSUE06271	3 years	2025-09-22	SIP-AC2
Waveguide Harmonic Mixer	Keysight	M1970W	MRTSUE06272	3 years	2025-09-29	SIP-AC2
mmWave Antenna	MI-WWAverageE	261U-25/383	MRTSUE06273	N/A ^{Note1}	N/A	SIP-AC2
mmWave Antenna	A-INFO	LB-15-25-A	MRTSUE06409	N/A ^{Note1}	N/A	SIP-AC2
mmWave Antenna	A-INFO	LB-10-25-A	MRTSUE06410	N/A ^{Note1}	N/A	SIP-AC2
Oscilloscope	Agilent	DSO-X 6002A	MRTSUE06107	1 year	2024-02-29	SIP-AC2
Two-Line V-Network	R&S	ENV216	MRTSUE06003	1 year	2024-05-23	SIP-SR2
EMI Test Receiver	R&S	ESR3	MRTSUE06612	1 year	2024-05-23	SIP-SR2
Thermohygrometer	testo	608-H1	MRTSUE06621	1 year	2023-11-27	SIP-SR2
Shielding Room	MIX-BEP	SIP-SR2	MRTSUE06949	5 years	2024-10-23	SIP-SR2

Note 1: Standard gain horns need not be periodically calibrated. Antenna appearance and connector were checked and no damage.

Software	Version	Function
EMI V3	V 3.0.0	EMI Test Software
Controller_MF 7802BS	1.02	RE Antenna & turntable

5. Measurement Uncertainty

Where relevant, the following test uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k = 2$.

AC Conducted Emission Measurement	
Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
9kHz~150kHz: 3.58dB	
150kHz~30MHz: 3.20dB	
Radiated Emission Measurement	
Measurement Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
Coaxial:	9kHz~30MHz: 2.59dB
Coplanar:	9kHz~30MHz: 2.60dB
Horizontal:	30MHz~200MHz: 3.85dB
	200MHz~1GHz: 4.36dB
	1GHz~40GHz: 4.98dB
	40GHz~50GHz: 3.96dB
	50GHz~75GHz: 4.01dB
	75GHz~100GHz: 3.99dB
Vertical:	30MHz~200MHz: 4.06dB
	200MHz~1GHz: 5.28dB
	1GHz~40GHz: 4.91dB
	40GHz~50GHz: 3.86dB
	50GHz~75GHz: 3.89dB
	75GHz~100GHz: 3.87dB
Occupied Bandwidth Measurement	
Measuring Uncertainty for a Level of Confidence of 95% ($U=2U_c(y)$):	
3.2%	

6. Test Result

6.1. Summary

FCC Part Section(s)	Test Description	Test Condition	Verdict
15.207	AC Conducted Emissions 150kHz - 30MHz	Line Conducted	Pass
15.209 15.249	General Field Strength Limits (Restricted Bands and Radiated Emission Limits)	Radiated	Pass
15.215(c)	20dB Spectrum Bandwidth	Radiated	Pass

Notes:

1. The radiation measurements are performed in X, Y, Z axis positioning. The test results shown in the following sections represent the worst-case emissions.
2. The analyzer plots shown in this section were all taken with a correction table loaded into the analyzer. The correction table was used to account for the losses of the cables and attenuators used as part of the system to connect the EUT to the analyzer at all frequencies of interest.

6.2. AC Conducted Emissions Measurement

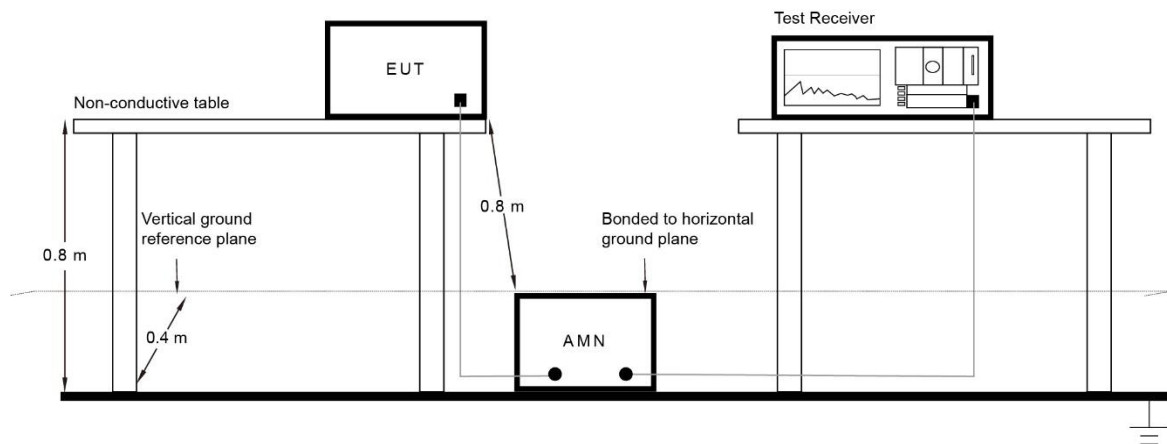
6.2.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.207 Limits		
Frequency (MHz)	QP (dB μ V)	Average (dB μ V)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

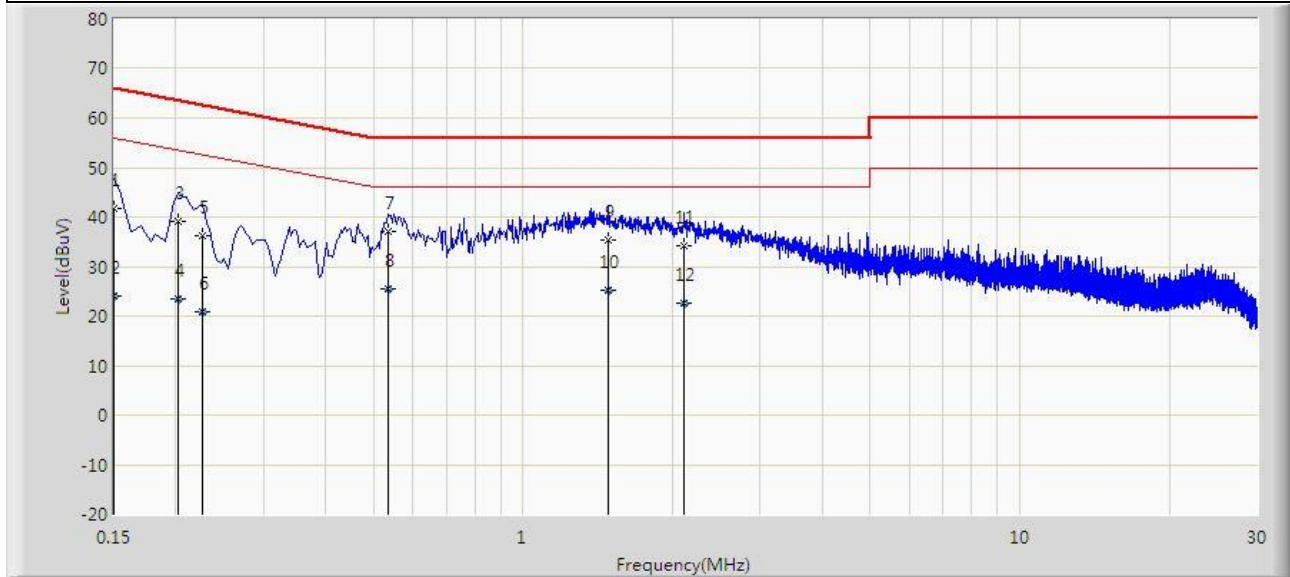
Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

6.2.2. Test Setup



6.2.3. Test Result

Site: SIP-SR2	Time: 2023/08/09 - 15:10
Temperature: 28.5°C	Humidity: 59.5%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Violet Tao
Probe: SIP-SR2-ENV216_101684_E	Polarity: Line
EUT: SMART RADAR TAILLIGHT	Power: AC 120V/60Hz
Test Mode 2	



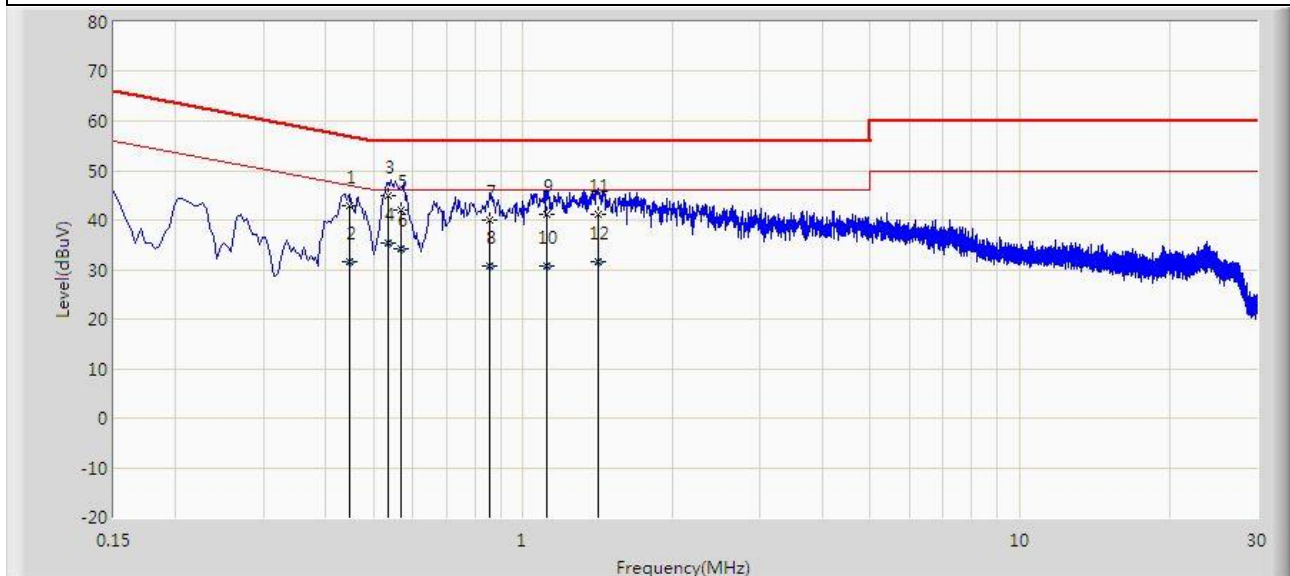
No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.150	41.604	31.953	-24.396	66.000	9.651	QP
2		0.150	24.122	14.471	-31.878	56.000	9.651	Average
3		0.202	39.149	29.462	-24.379	63.528	9.688	QP
4		0.202	23.620	13.932	-29.908	53.528	9.688	Average
5		0.226	36.319	26.608	-26.277	62.595	9.711	QP
6		0.226	20.920	11.209	-31.676	52.595	9.711	Average
7	*	0.534	37.155	27.415	-18.845	56.000	9.740	QP
8		0.534	25.471	15.731	-20.529	46.000	9.740	Average
9		1.482	35.433	25.654	-20.567	56.000	9.779	QP
10		1.482	25.187	15.408	-20.813	46.000	9.779	Average
11		2.114	34.194	24.401	-21.806	56.000	9.792	QP
12		2.114	22.741	12.949	-23.259	46.000	9.792	Average

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: SIP-SR2	Time: 2023/08/09 - 15:15
Temperature: 28.5°C	Humidity: 59.5%
Limit: FCC_Part15.207_CE_AC Power	Engineer: Violet Tao
Probe: SIP-SR2-ENV216_101684_E	Polarity: Neutral
EUT: SMART RADAR TAILLIGHT	Power: AC 120V/60Hz
Test Mode 2	



No	Mark	Frequency (MHz)	Measure Level (dBμV)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV)	Factor (dB)	Type
1		0.446	42.887	33.157	-14.062	56.949	9.730	QP
2		0.446	31.485	21.755	-15.465	46.949	9.730	Average
3		0.534	44.930	35.200	-11.070	56.000	9.730	QP
4	*	0.534	35.330	25.600	-10.670	46.000	9.730	Average
5		0.567	42.030	32.300	-13.970	56.000	9.730	QP
6		0.567	34.130	24.400	-11.870	46.000	9.730	Average
7		0.858	40.112	30.375	-15.888	56.000	9.737	QP
8		0.858	30.854	21.117	-15.146	46.000	9.737	Average
9		1.114	41.272	31.533	-14.728	56.000	9.739	QP
10		1.114	30.768	21.029	-15.232	46.000	9.739	Average
11		1.414	41.259	31.499	-14.741	56.000	9.760	QP
12		1.414	31.634	21.874	-14.366	46.000	9.760	Average

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

6.3. Radiated Emission

6.3.1. Test Limit

FCC Part 15 Subpart C Paragraph 15.249		
Fundamental Frequency (MHz)	Field Strength of Fundamental (mV/m)	Field Strength of Harmonics (μV/m)
902 ~ 928	50	500
2400 ~ 2483.5	50	500
5725 ~ 5875	50	500
24000 ~ 24250	250	2500
Note: FCC Part 15.249 (d), 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.		

FCC Part 15 Subpart C Paragraph 15.209		
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
Note 1: The lower limit shall apply at the transition frequency.		
Note 2: Distance refers to the distance in meters between the measuring instrument antenna and the closed point of any part of the device or system.		
Note 3: E field strength (dBμV/m) = 20 log E field strength (μV/m).		

6.3.2. Test Procedure

ANSI C63.10-2013 Section 6.3

ANSI C63.10-2013 Section 6.4

ANSI C63.10-2013 Section 6.5

ANSI C63.10-2013 Section 6.6

ANSI C63.10-2013 Section 9.10

Note: Far-field boundary calculation as below.

According to ANSI C63.10-2013, Clause 9, All measurements shall be made in the far-field of the measurement antenna. The far-field boundary for mm-wave antennas is $2D^2/\lambda$.

- For spurious and harmonic emissions testing, D is the largest antenna dimension of the measurement antenna in m;

For fundamental or out-of-band emissions, D is the largest antenna dimension of the EUT antenna or measurement antenna, whichever is largest.
- λ is the wavelength in m.

Far-field boundary calculation			
Frequency Range (GHz)	λ (m)	D (m)	$R_{(\text{Far Field})}$ (m)
24.00 ~ 24.25	0.012	0.096	1.536
40.00 ~ 50.00	0.006	0.046	0.705
50.00 ~ 75.00	0.004	0.036	0.648
75.00 ~ 100.00	0.003	0.026	0.451

For 24.00 ~ 24.25GHz, Our measurement is performed at a minimum distance of 3.0m > $R_{(\text{Far Field})}$.

For 40.00 ~ 100.00GHz, Our measurement is performed at a minimum distance of 1.0m > $R_{(\text{Far Field})}$.

6.3.3. Test Setting

Measurement of harmonic and spurious emissions above 40 GHz

1. Connect the test antenna covering the appropriate frequency range to a spectrum analyzer via an external mixer.
2. Set spectrum analyzer RBW = 1MHz, VBW = 3MHz, peak & average detector.
3. Maximize all observed emissions. Note the maximum power indicated on the spectrum analyzer. Adjust this reading, if necessary, by the conversion loss of the external mixer used at the frequency under investigation and the external mixer IF cable loss.
4. Calculate the maximum field strength of the emission at the measurement distance.

5. Calculate the power density at the distance specified by the limit from the field strength at the distance specified by the limit.
6. Repeat the preceding sequence for every emission observed in the frequency band under investigation.

Measurement of harmonic and spurious emissions below 40 GHz

Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = as specified in Table 1
3. VBW = 3 x RBW
4. Detector = Peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Table 1 - RBW as a function of frequency

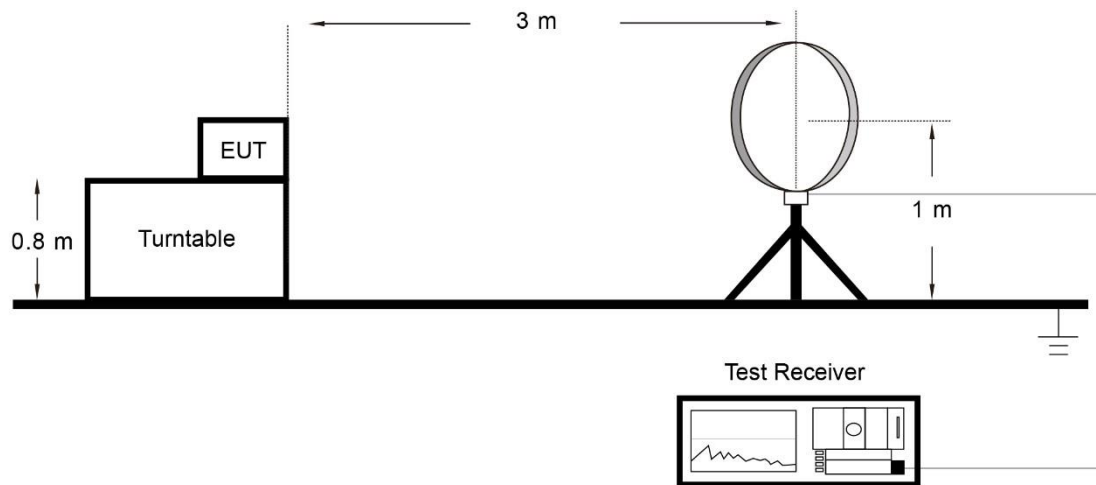
Frequency	RBW
9 ~ 150 kHz	200 Hz
0.15 ~ 30 MHz	9 kHz
30 ~ 1000 MHz	120 kHz
> 1000 MHz	1 MHz

Average Field Strength Measurements

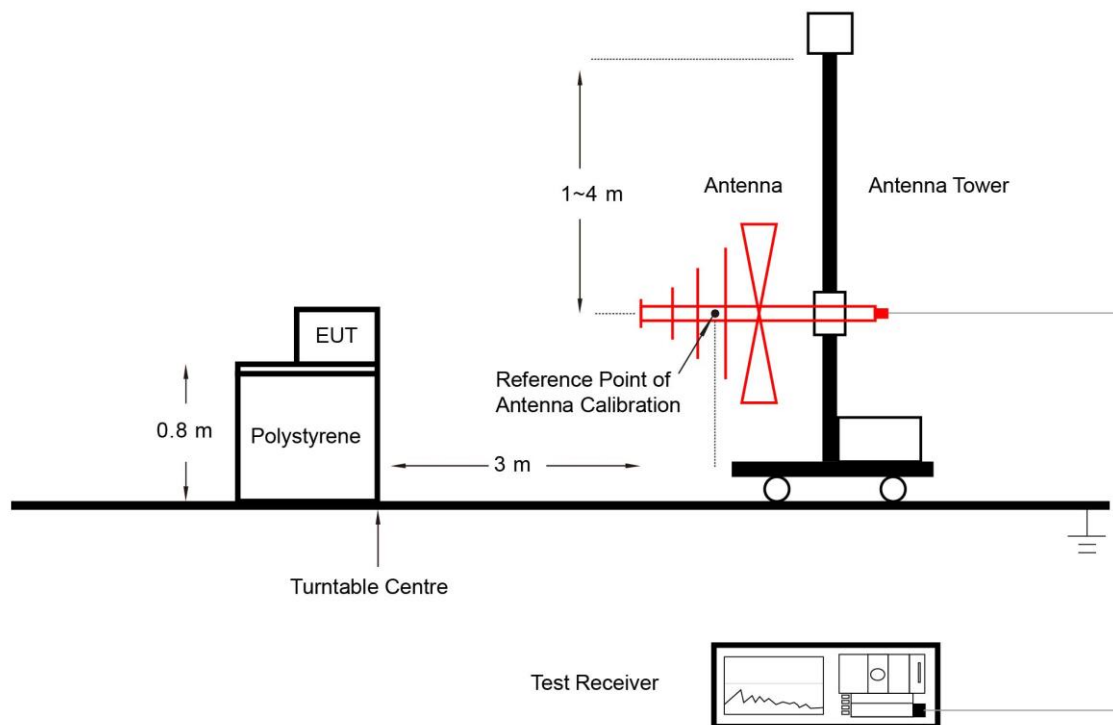
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. Set the VBW $\geq 3 \times$ RBW
4. Detector function = Average
5. Sweep time = auto couple
6. Trace mode = Max Hold
7. Allow max hold to run for suitable traces until the trace tend to stabilize.

6.3.4. Test Setup

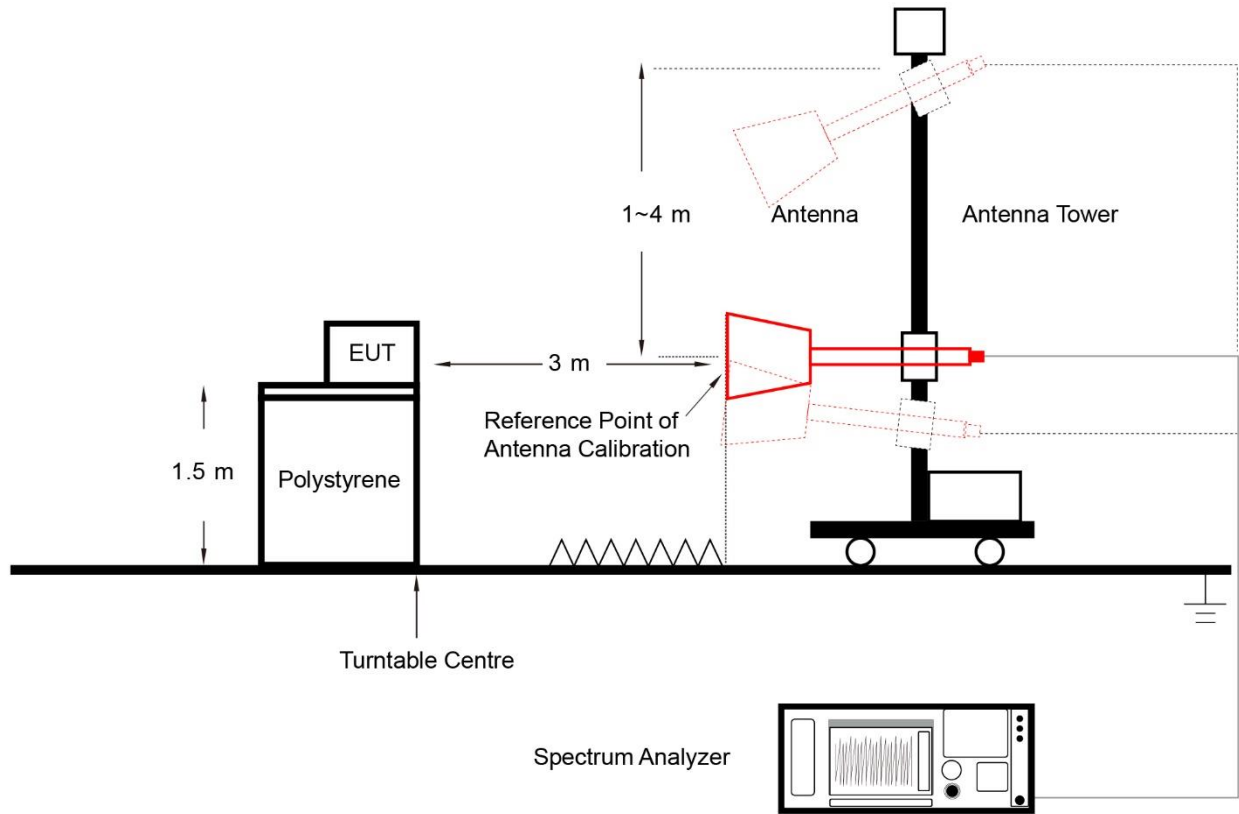
Below 30MHz Test Setup:



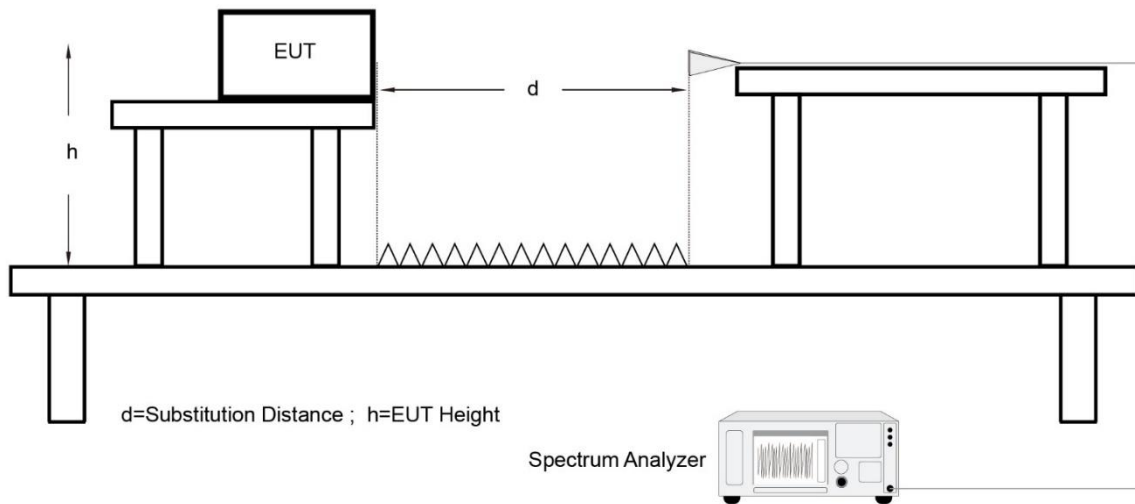
Below 1GHz Test Setup:



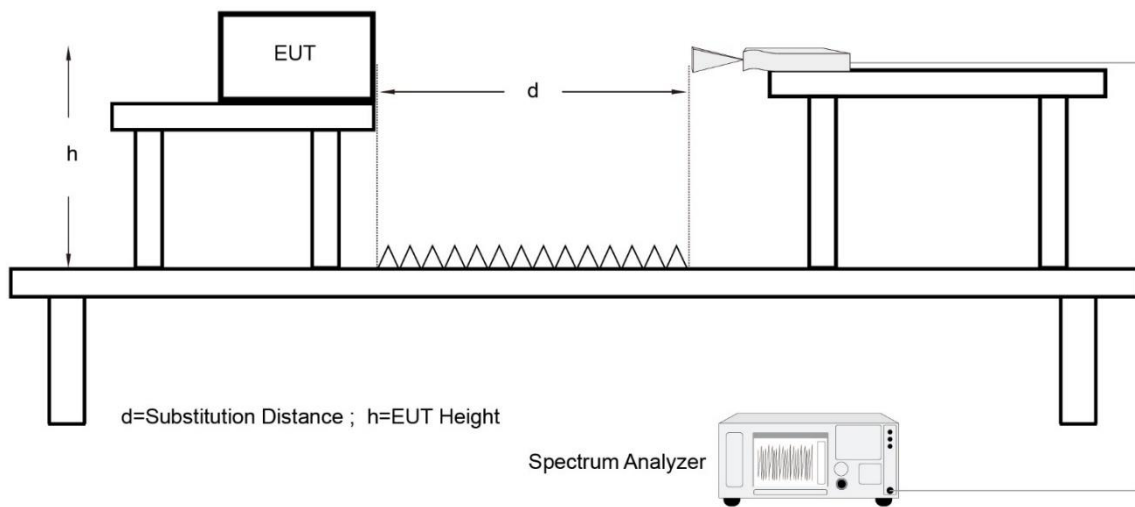
1GHz ~ 40GHz Test Setup:



40GHz ~ 50GHz Test Setup:



Above 50GHz Test Setup:



6.3.5. Test Result

Test Site	SIP-AC2	Test Date	2023-08-23
Test Engineer	Mero Zhou	Test Mode	Mode 1

FMCW Desensitization Factor						
Frequency Band (GHz)	FMCW Chirp Width (MHz)	FMCW Chirp Time (μs)	Chirp Rate (MHz/μs)	RBW (MHz)	Normalized Sweep Rate	Desensitization Factor (dB)
24.00 ~ 24.25	60	80	0.75	1	0.75	0

Note: The information of EUT was provided by the manufacturer, and the accuracy of the information shall be the responsibility of the manufacturer.

Frequency Band (GHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level @3m (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Result
Fundamental Radiated Emission (Horizontal)							
24.055	99.879	-9.482	90.396	127.96	-37.564	Peak	Pass
24.155	98.700	-9.227	89.473	127.96	-38.487	Peak	Pass
24.195	97.865	-9.277	88.588	127.96	-39.372	Peak	Pass
Fundamental Radiated Emission (Vertical)							
24.055	96.033	-9.522	86.511	127.96	-41.449	Peak	Pass
24.155	95.017	-9.232	85.785	127.96	-42.175	Peak	Pass
24.195	95.344	-9.284	86.060	127.96	-41.900	Peak	Pass
Notes 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)							
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)							
Note 2: Average measurement was not performed when the peak level lower than average limit.							

Test Site	SIP-AC2	Test Date	2023-08-01
Test Engineer	Wayne Wang	Test Mode	Mode 1

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Between 1GHz ~ 40GHz							
14812.5	38.8	11.8	50.6	74.0	-23.4	Peak	Horizontal
16759.0	40.4	12.6	53.0	74.0	-21.0	Peak	Horizontal
17940.5	38.3	19.8	58.1	74.0	-15.9	Peak	Horizontal
17940.5	27.3	19.8	47.1	54.0	-6.9	Average	Horizontal
10894.0	42.1	7.6	49.7	74.0	-24.3	Peak	Vertical
14940.0	39.2	11.1	50.3	74.0	-23.7	Peak	Vertical
17898.0	39.1	20.0	59.1	74.0	-14.9	Peak	Vertical
17898.0	28.8	20.0	48.8	54.0	-5.2	Average	Vertical
29286.0	57.8	-9.4	48.4	74.0	-25.6	Peak	Horizontal
35380.0	58.5	-7.1	51.4	74.0	-22.6	Peak	Horizontal
35380.0	48.3	-7.1	41.2	54.0	-12.8	Average	Horizontal
39329.0	54.4	-0.7	53.7	74.0	-20.3	Peak	Horizontal
39329.0	47.0	-0.7	46.3	54.0	-7.7	Average	Horizontal
24039.0	59.4	-9.4	50.0	74.0	-24.0	Peak	Vertical
29847.0	57.9	-8.6	49.3	74.0	-24.7	Peak	Vertical
39054.0	55.3	-1.0	54.3	74.0	-19.7	Peak	Vertical
39054.0	46.6	-1.0	45.6	54.0	-8.4	Average	Vertical

Notes:

- Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre-Amplifier Gain (dB)
- Average measurement was not performed when the peak level lower than average limit.

Test Site	SIP-AC2	Test Date	2023-08-01
Test Engineer	Wayne Wang	Test Mode	Mode 2

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Between 1GHz ~ 40GHz							
10979.0	41.3	7.4	48.7	74.0	-25.3	Peak	Horizontal
14608.5	38.9	11.7	50.6	74.0	-23.4	Peak	Horizontal
17838.5	39.2	19.3	58.5	74.0	-15.5	Peak	Horizontal
17838.5	27.2	19.3	46.5	54.0	-7.5	Average	Horizontal
14549.0	38.7	11.5	50.2	74.0	-23.8	Peak	Vertical
16759.0	40.3	12.6	52.9	74.0	-21.1	Peak	Vertical
16759.0	29.0	12.6	41.6	54.0	-12.4	Average	Vertical
17906.5	37.4	20.5	57.9	74.0	-16.1	Peak	Vertical
17906.5	26.5	20.5	47.0	54.0	-7.0	Average	Vertical
31134.0	58.7	-8.6	50.1	74.0	-23.9	Peak	Horizontal
37723.0	56.1	-3.4	52.7	74.0	-21.3	Peak	Horizontal
37723.0	47.7	-3.4	44.3	54.0	-9.7	Average	Horizontal
39252.0	52.7	0.7	53.4	74.0	-20.6	Peak	Horizontal
39252.0	47.2	0.7	47.9	54.0	-6.1	Average	Horizontal
24160.0	58.6	-9.1	49.5	74.0	-24.5	Peak	Vertical
37866.0	56.2	-3.8	52.4	74.0	-21.6	Peak	Vertical
37866.0	47.7	-3.8	43.9	54.0	-10.1	Average	Vertical
38999.0	54.1	-0.9	53.2	74.0	-20.8	Peak	Vertical
38999.0	46.7	-0.9	45.8	54.0	-8.2	Average	Vertical

Notes:

- Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre-Amplifier Gain (dB)
- Average measurement was not performed when the peak level lower than average limit.

Test Site	SIP-AC2	Test Date	2023-08-01
Test Engineer	Wayne Wang	Test Mode	Mode 3

Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
Between 1GHz ~ 40GHz							
10987.5	41.9	7.4	49.3	74.0	-24.7	Peak	Horizontal
14821.0	39.0	11.9	50.9	74.0	-23.1	Peak	Horizontal
17898.0	37.8	20.0	57.8	74.0	-16.2	Peak	Horizontal
17898.0	27.2	20.0	47.2	54.0	-6.8	Average	Horizontal
14634.0	39.0	11.6	50.6	74.0	-23.4	Peak	Vertical
16852.5	40.1	13.2	53.3	74.0	-20.7	Peak	Vertical
16852.5	30.7	13.2	43.9	54.0	-10.1	Average	Vertical
17915.0	36.9	21.0	57.9	74.0	-16.1	Peak	Vertical
17915.0	26.7	21.0	47.7	54.0	-6.3	Average	Vertical
26690.0	55.7	-8.1	47.6	74.0	-26.4	Peak	Horizontal
32784.0	57.4	-9.5	47.9	74.0	-26.1	Peak	Horizontal
38702.0	53.3	-2.2	51.1	74.0	-22.9	Peak	Horizontal
38702.0	47.7	-2.2	45.5	54.0	-8.5	Average	Horizontal
35732.0	57.4	-6.6	50.8	74.0	-23.2	Peak	Vertical
37954.0	55.3	-3.0	52.3	74.0	-21.7	Peak	Vertical
37954.0	46.9	-3.0	43.9	54.0	-10.1	Average	Vertical
39054.0	54.2	-1.0	53.2	74.0	-20.8	Peak	Vertical
39054.0	44.7	-1.0	43.7	54.0	-10.3	Average	Vertical

Notes:

- Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre-Amplifier Gain (dB)
- Average measurement was not performed when the peak level lower than average limit.

Test Site	SIP-AC2	Test Date	2023-08-02 ~ 2023-08-03
Test Engineer	Wayne Wang	Test Mode	Mode 1

Frequency (GHz)	Measure Level @1m (dBμV/m)	Measure Level @3m (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Detector	Result	Polarity
Above 40GHz							
48.1	71.6	62.1	74.0	-11.9	Peak	Pass	Horizontal
49.2	50.4	40.9	54.0	-13.1	Average	Pass	Horizontal
48.1	72.6	63.1	74.0	-10.9	Peak	Pass	Vertical
49.1	50.7	41.2	54.0	-12.8	Average	Pass	Vertical
72.2	72.4	62.9	88.0	-25.1	Peak	Pass	Horizontal
72.2	61.4	51.9	68.0	-16.1	Average	Pass	Horizontal
72.2	67.4	57.9	88.0	-30.1	Peak	Pass	Vertical
72.2	59.6	50.1	68.0	-17.9	Average	Pass	Vertical
96.7	77.7	68.2	88.0	-19.8	Peak	Pass	Horizontal
96.8	68.2	58.7	68.0	-9.3	Average	Pass	Horizontal
96.7	77.9	68.4	88.0	-19.6	Peak	Pass	Vertical
96.8	68.5	59.0	68.0	-9.0	Average	Pass	Vertical

Notes:

1. Measure Level @3m = Measure Level @1.0m + 20 * log(1.0m / 3m)
2. The distance of testing is 1m.

Test Site	SIP-AC2	Test Date	2023-08-02 ~ 2023-08-24
Test Engineer	Wayne Wang	Test Mode	Mode 2

Frequency (GHz)	Measure Level @1m (dBμV/m)	Measure Level @3m (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Detector	Result	Polarity
Above 40GHz							
49.4	72.0	62.5	74.0	-11.5	Peak	Pass	Horizontal
50.0	61.5	52.0	54.0	-2.0	Average	Pass	Horizontal
48.4	77.8	68.3	74.0	-5.7	Peak	Pass	Vertical
49.2	50.9	41.4	54.0	-12.6	Average	Pass	Vertical
72.7	69.4	59.9	88.0	-28.1	Peak	Pass	Horizontal
71.7	62.8	53.3	68.0	-14.7	Average	Pass	Horizontal
72.7	72.5	63.0	88.0	-25.0	Peak	Pass	Vertical
72.7	62.4	52.9	68.0	-15.1	Average	Pass	Vertical
96.8	77.8	68.3	88.0	-19.7	Peak	Pass	Horizontal
96.8	68.2	58.7	68.0	-9.3	Average	Pass	Horizontal
96.7	76.8	67.3	88.0	-20.7	Peak	Pass	Vertical
96.8	68.9	59.4	68.0	-8.6	Average	Pass	Vertical

Notes:

- Measure Level @3m = Measure Level @1.0m + 20 * log(1.0m / 3m)
- The distance of testing is 1m.

Test Site	SIP-AC2	Test Date	2023-08-02 ~ 2023-08-03
Test Engineer	Wayne Wang	Test Mode	Mode 3

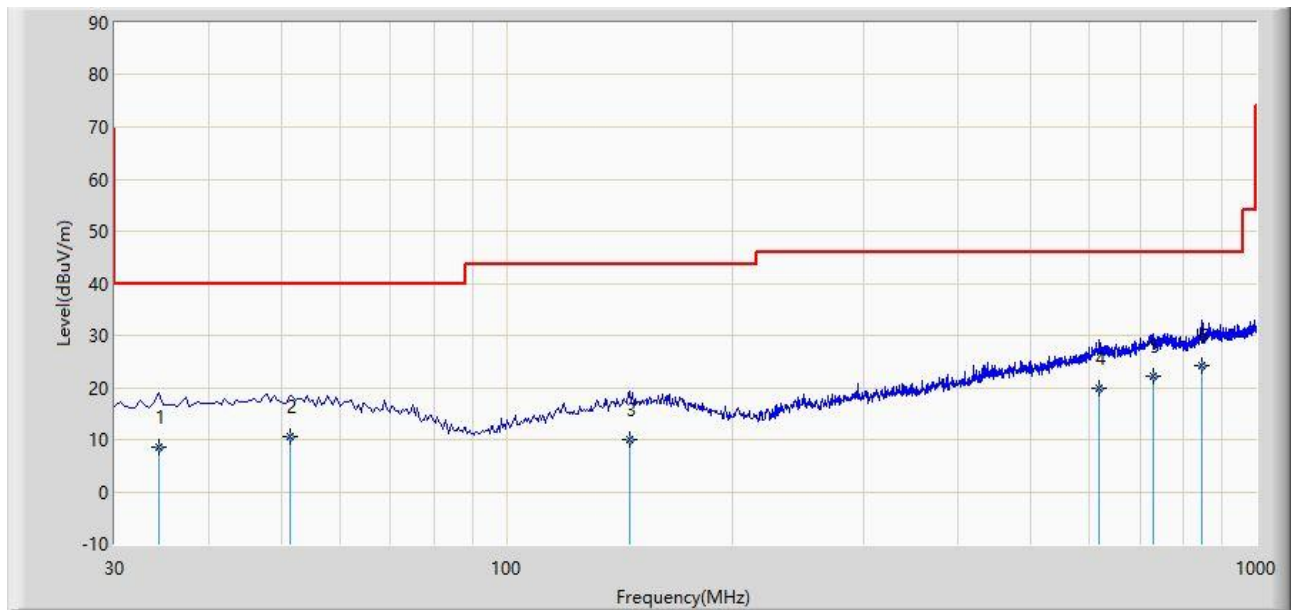
Frequency (GHz)	Measure Level @1m (dBμV/m)	Measure Level @3m (dBμV/m)	Limit @3m (dBμV/m)	Margin (dB)	Detector	Result	Polarity
Above 40GHz							
48.4	72.2	62.7	74.0	-11.3	Peak	Pass	Horizontal
49.1	50.8	41.3	54.0	-12.7	Average	Pass	Horizontal
48.4	77.6	68.1	74.0	-5.9	Peak	Pass	Vertical
48.4	54.8	45.3	54.0	-8.7	Average	Pass	Vertical
72.7	70.1	60.6	88.0	-27.4	Peak	Pass	Horizontal
72.7	66.5	57.0	68.0	-11.0	Average	Pass	Horizontal
72.7	69.3	59.8	88.0	-28.2	Peak	Pass	Vertical
72.7	59.3	49.8	68.0	-18.2	Average	Pass	Vertical
96.7	77.3	67.8	88.0	-20.2	Peak	Pass	Horizontal
96.8	68.1	58.6	68.0	-9.4	Average	Pass	Horizontal
96.7	79.3	69.8	88.0	-18.2	Peak	Pass	Vertical
96.8	68.0	58.5	68.0	-9.5	Average	Pass	Vertical

Notes:

1. Measure Level @3m = Measure Level @1.0m + 20 * log(1.0m / 3m)
2. The distance of testing is 1m.

The Worst Result of Radiated Emission below 1GHz:

Site: SIP-AC2	Time: 2023/08/01 - 21:38
Limit: FCC_Part15.249_RSE(3m)	Engineer: Wayne Wang
Probe: VULB 9168_00998_25-2000MHz	Polarity: Horizontal
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 2	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		34.365	8.529	-8.500	-31.471	40.000	17.029	QP
2		51.340	10.529	-7.900	-29.471	40.000	18.429	QP
3		145.915	9.953	-8.100	-33.547	43.500	18.053	QP
4		617.820	19.940	-7.100	-26.060	46.000	27.041	QP
5		728.400	22.059	-6.130	-23.941	46.000	28.188	QP
6	*	845.285	24.341	-5.270	-21.659	46.000	29.611	QP

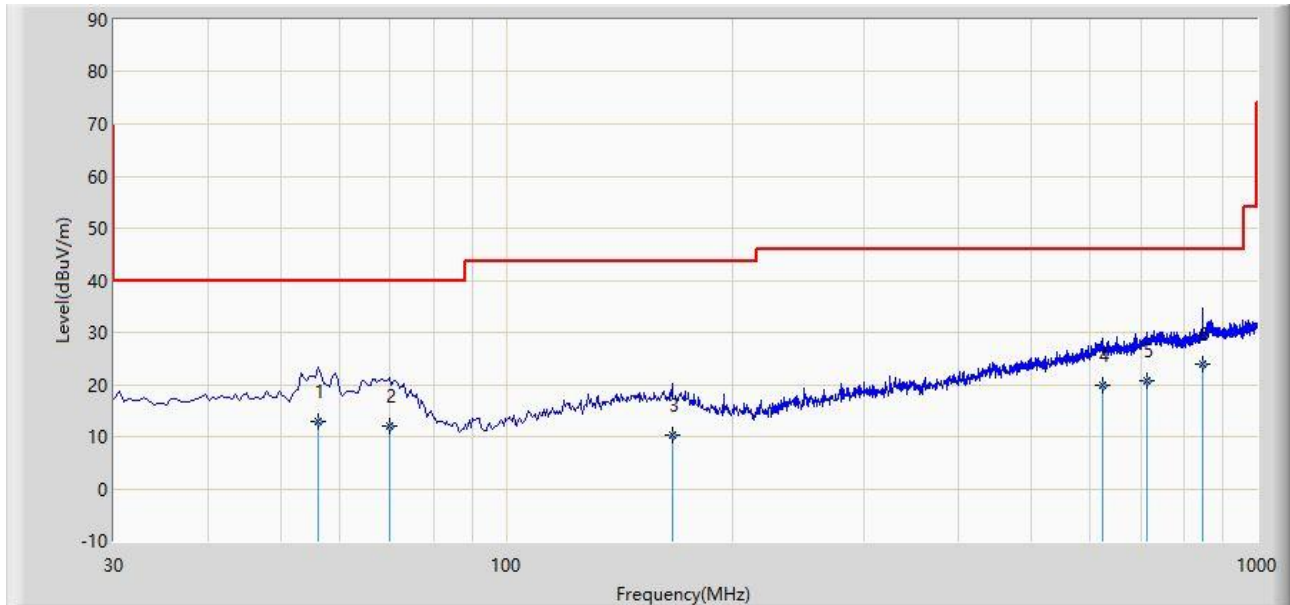
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: SIP-AC2	Time: 2023/08/01 - 21:41
Limit: FCC_Part15.249_RSE(3m)	Engineer: Wayne Wang
Probe: VULB 9168_00998_25-2000MHz	Polarity: Vertical
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 2	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		56.190	13.020	-5.100	-26.980	40.000	18.120	QP
2		69.770	11.898	-4.300	-28.102	40.000	16.198	QP
3		166.285	10.206	-7.900	-33.294	43.500	18.106	QP
4		624.125	19.742	-7.100	-26.258	46.000	26.842	QP
5		713.365	20.679	-7.200	-25.321	46.000	27.879	QP
6	*	845.285	23.911	-5.700	-22.089	46.000	29.611	QP

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Note 4: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

6.4. Radiated Restricted Band Edge Measurement

6.4.1. Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

Frequency (MHz)	Frequency (MHz)	Frequency (MHz)	Frequency (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	--	--	--

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [$\mu\text{V}/\text{m}$]	Measured Distance [Meter]
0.009 ~ 0.490	2400/F (kHz)	300
0.490 ~ 1.705	24000/F (kHz)	30
1.705 ~ 30	30	30
30 ~ 88	100	3
88 ~ 216	150	3
216 ~ 960	200	3
Above 960	500	3

6.4.2. Test Procedure

ANSI C63.10-2013 Section 6.3

ANSI C63.10-2013 Section 6.6

ANSI C63.10-2013 Section 6.10

6.4.3. Test Setting

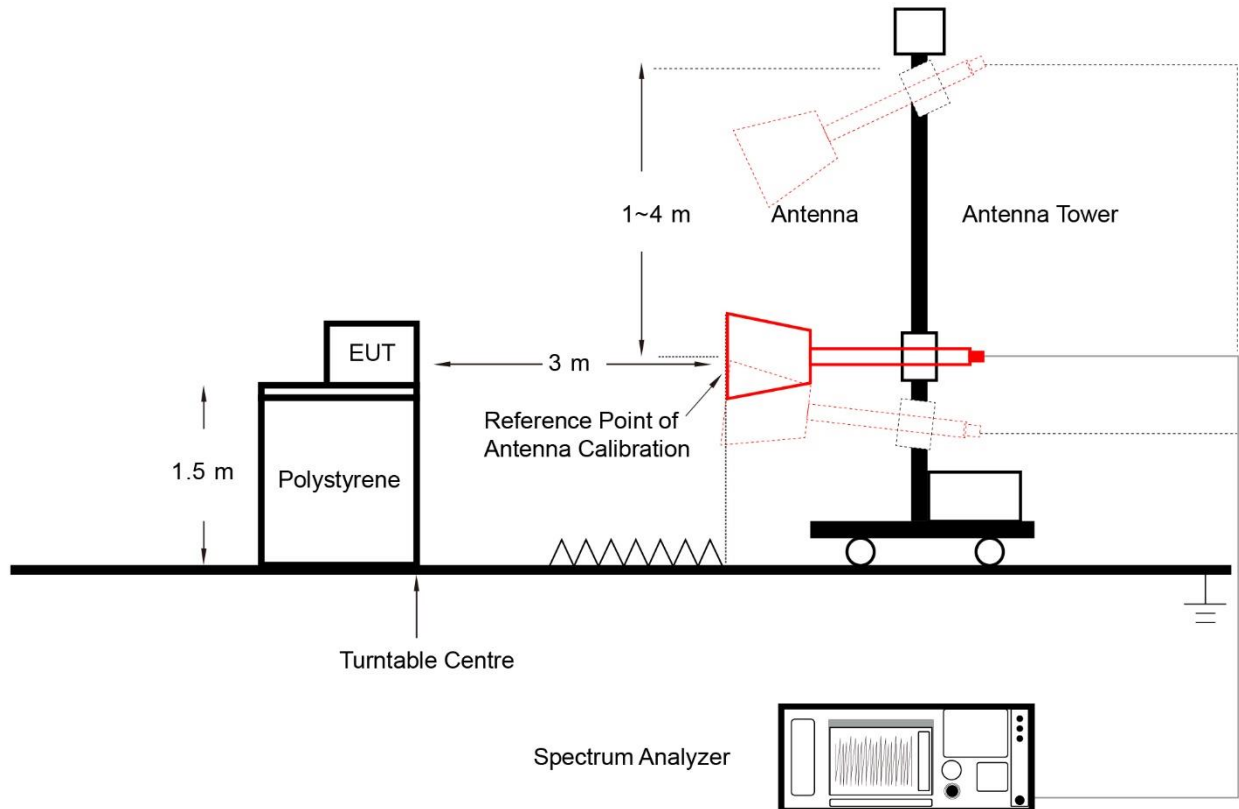
Peak Field Strength Measurements

1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. VBW = 3MHz
4. Detector = peak
5. Sweep time = auto couple
6. Trace mode = max hold
7. Trace was allowed to stabilize

Average Field Strength Measurements

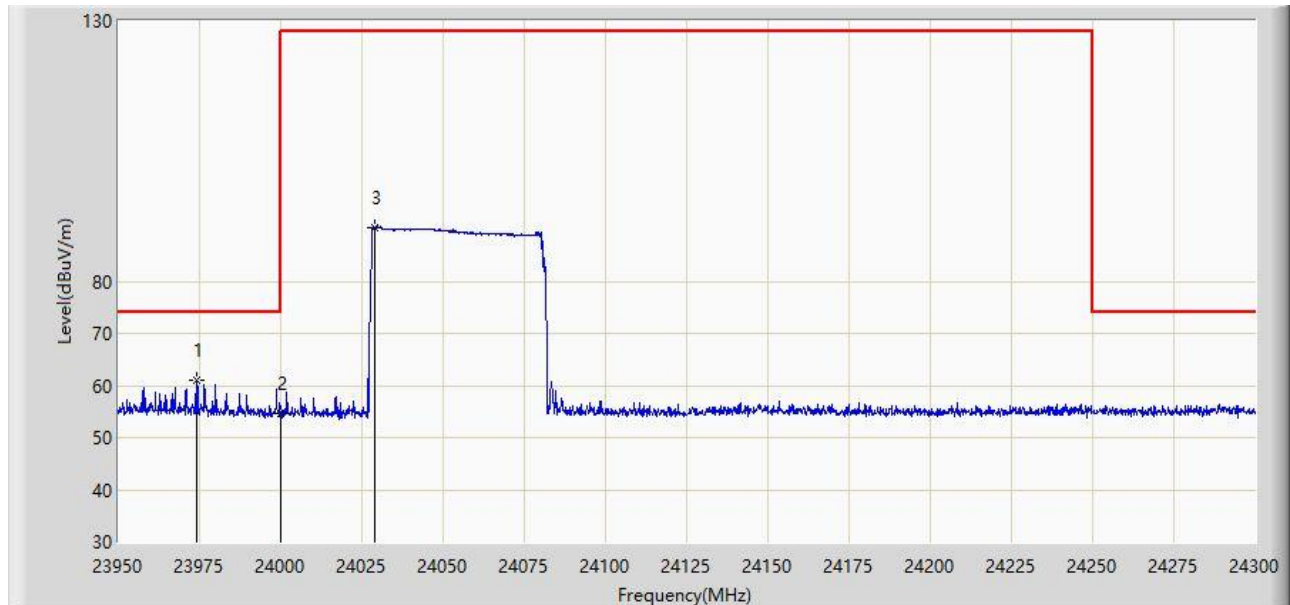
1. Analyzer center frequency was set to the frequency of the radiated spurious emission of interest
2. RBW = 1MHz
3. Set the VBW $\geq 3 \times$ RBW
4. Detector function = Average
5. Sweep time $\geq$ (number of points in sweep) $\times$ (transmission symbol period).
6. Trace mode = Average
7. Allow max hold to run for suitable traces until the trace tend to stabilize.

6.4.4. Test Setup



6.4.5. Test Result

Site: SIP-AC2	Time: 2023/08/23 - 15:52
Limit: FCC PART 15.249_Bandedge	Engineer: Mero Zhou
Probe: BBHA 9170_00934_18-40GHz	Polarity: Horizontal
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 1	



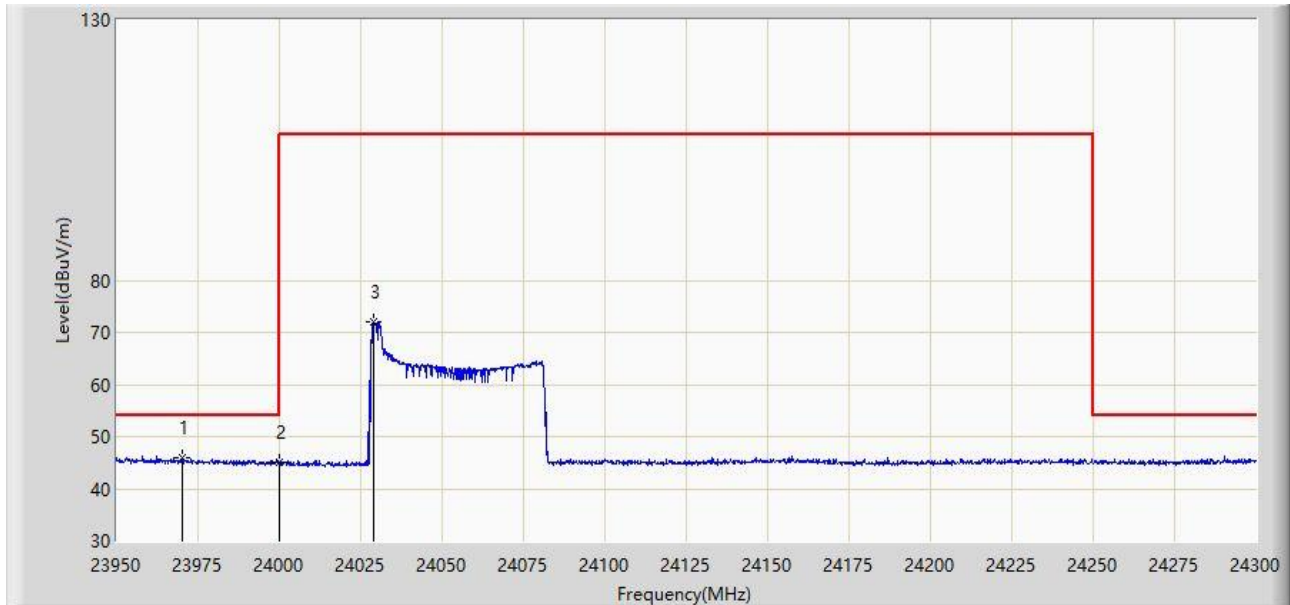
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	23973.975	60.893	69.988	-13.107	74.000	-9.095	PK
2		24000.000	54.536	63.907	-19.464	74.000	-9.371	PK
3		24028.926	90.408	99.919	N/A	N/A	-9.511	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC2	Time: 2023/08/23 - 16:17
Limit: FCC PART 15.249_Bandedge	Engineer: Mero Zhou
Probe: BBHA 9170_00934_18-40GHz	Polarity: Horizontal
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 1	



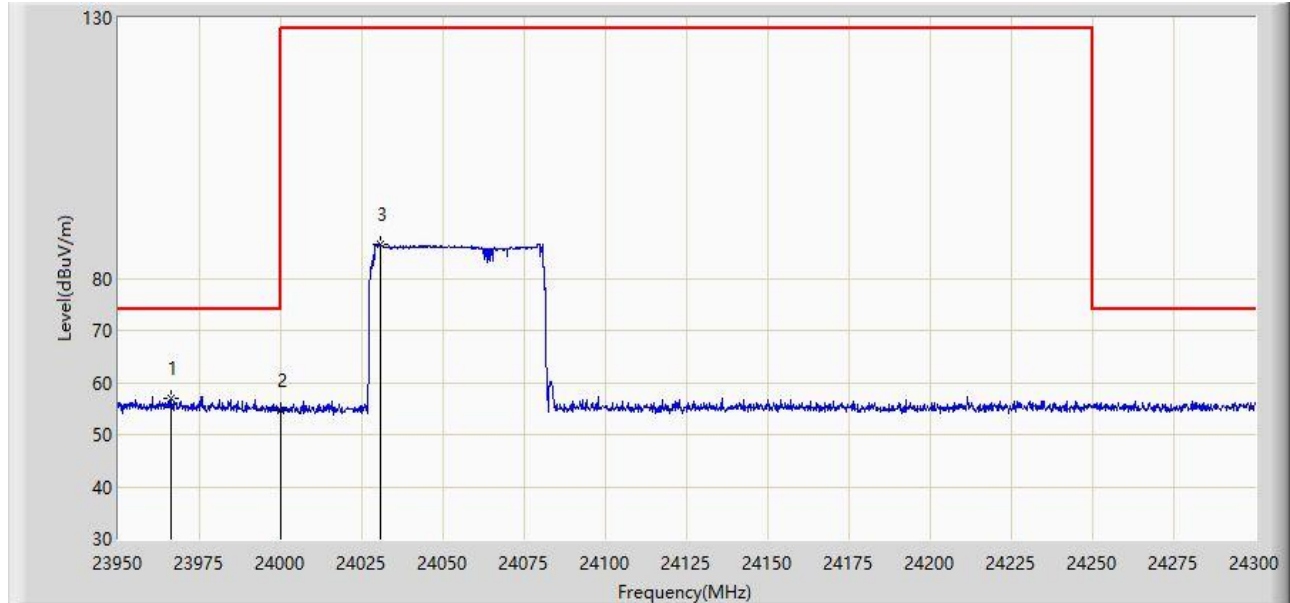
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	23970.301	46.060	55.124	-7.940	54.000	-9.064	Average
2		24000.000	44.944	54.315	-9.056	54.000	-9.371	Average
3		24028.750	72.093	81.606	N/A	N/A	-9.513	Average

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC2	Time: 2023/08/23 - 16:37
Limit: FCC PART 15.249_Bandedge	Engineer: Mero Zhou
Probe: BBHA 9170_00934_18-40GHz	Polarity: Vertical
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 1	



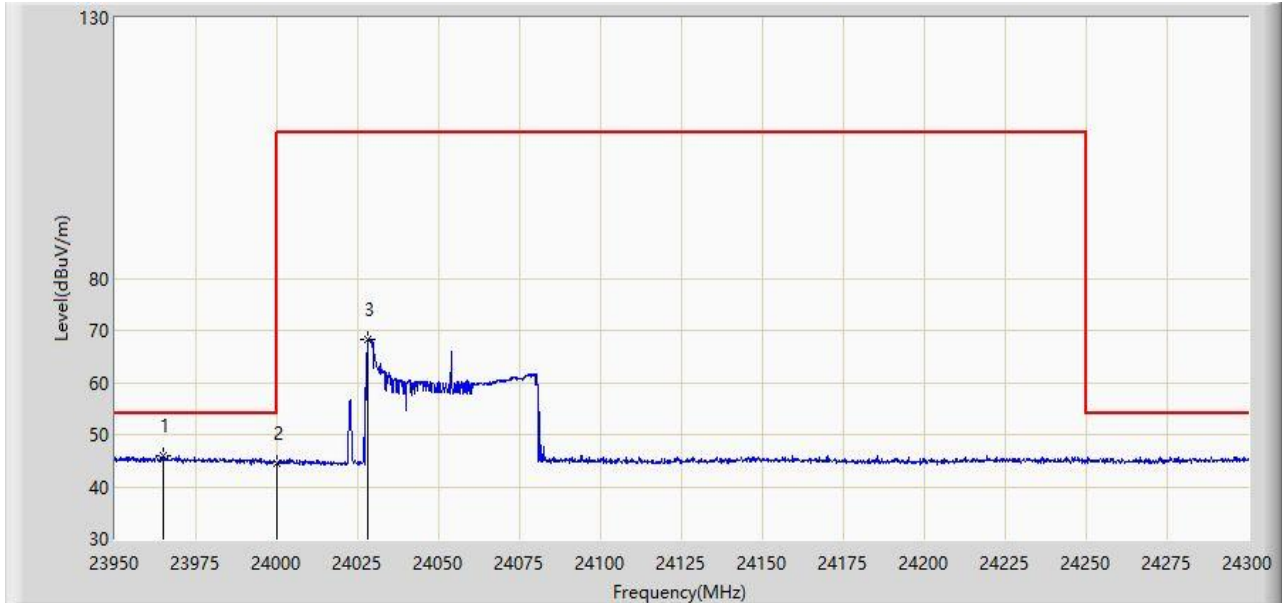
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	23966.275	56.967	65.998	-17.033	74.000	-9.031	PK
2		24000.000	54.779	64.150	-19.221	74.000	-9.371	PK
3		24030.850	86.390	95.873	N/A	N/A	-9.483	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC2	Time: 2023/08/23 - 16:53
Limit: FCC PART 15.249_Bandedge	Engineer: Mero Zhou
Probe: BBHA 9170_00934_18-40GHz	Polarity: Vertical
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 1	



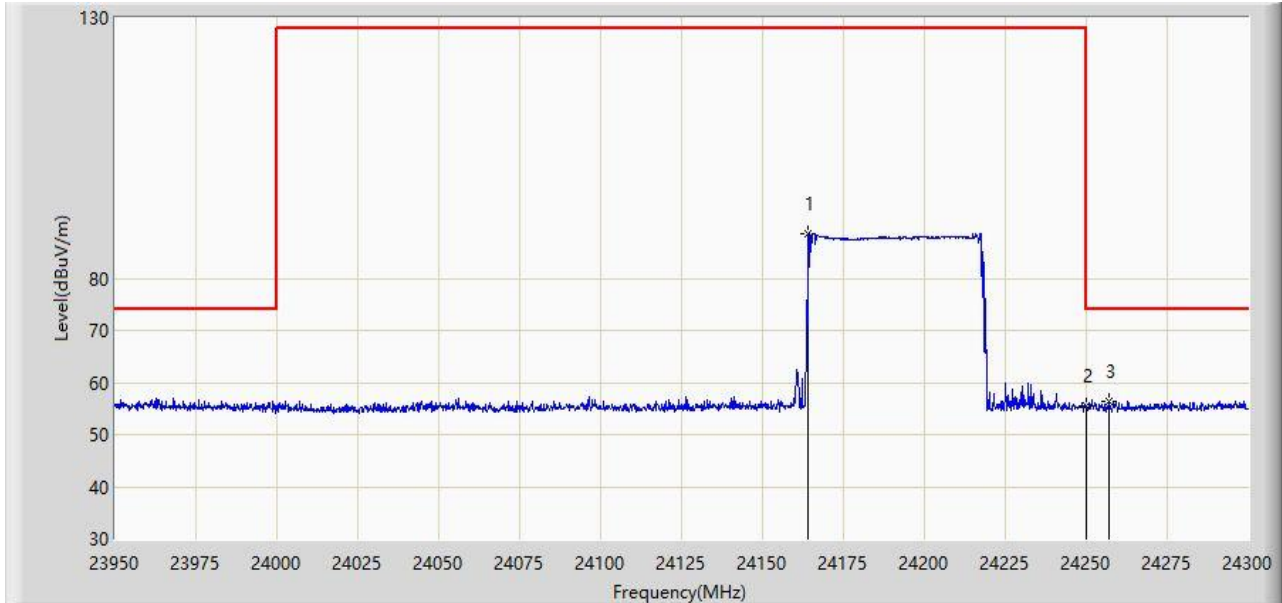
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	23964.699	45.929	54.947	-8.071	54.000	-9.017	Average
2		24000.000	44.348	53.719	-9.652	54.000	-9.371	Average
3		24028.225	68.369	77.890	N/A	N/A	-9.521	Average

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC2	Time: 2023/08/23 - 17:22
Limit: FCC PART 15.249_Bandedge	Engineer: Mero Zhou
Probe: BBHA 9170_00934_18-40GHz	Polarity: Horizontal
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 3	



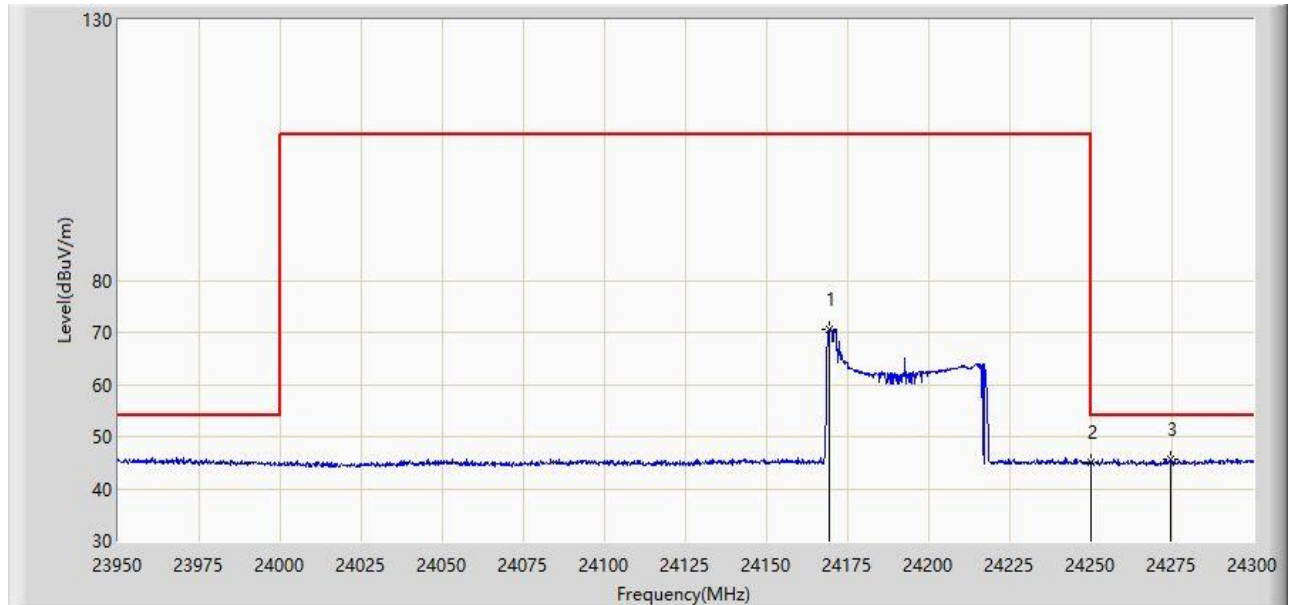
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		24164.199	88.605	97.787	N/A	N/A	-9.182	PK
2		24250.000	55.489	64.643	-18.511	74.000	-9.154	PK
3	*	24257.125	56.376	65.584	-17.624	74.000	-9.208	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC2	Time: 2023/08/23 - 17:31
Limit: FCC PART 15.249_Bandedge	Engineer: Mero Zhou
Probe: BBHA 9170_00934_18-40GHz	Polarity: Horizontal
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 3	



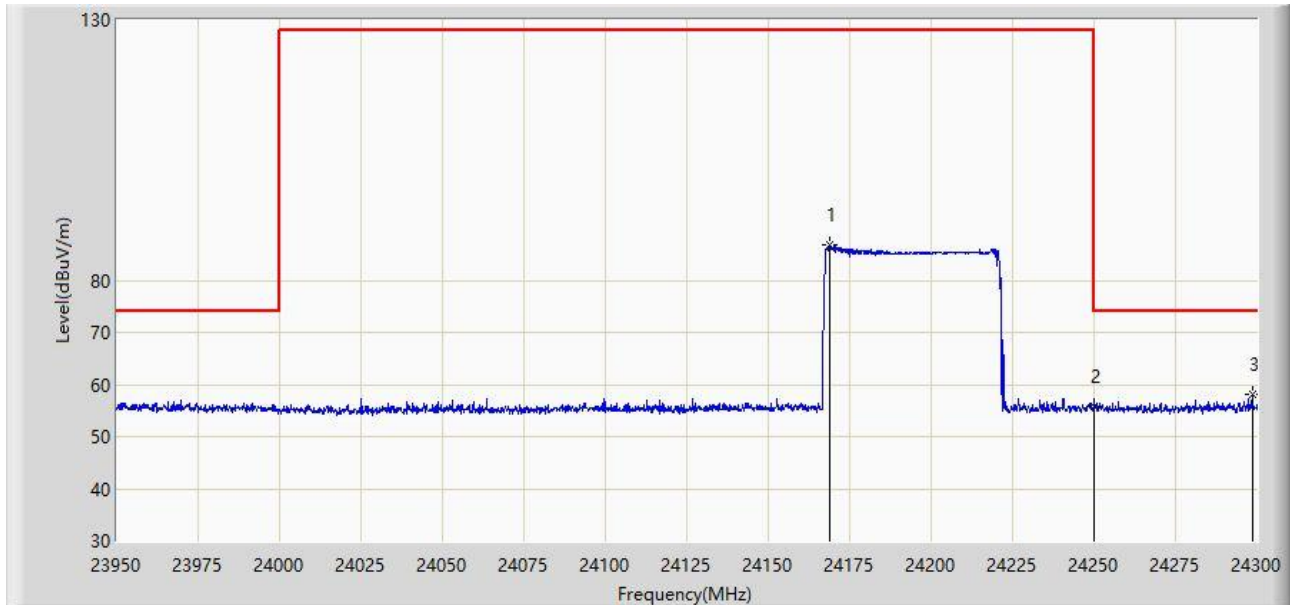
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		24169.275	70.634	79.907	N/A	N/A	-9.273	Average
2		24250.000	45.061	54.215	-8.939	54.000	-9.154	Average
3	*	24274.625	45.730	54.959	-8.270	54.000	-9.229	Average

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC2	Time: 2023/08/23 - 17:35
Limit: FCC PART 15.249_Bandedge	Engineer: Mero Zhou
Probe: BBHA 9170_00934_18-40GHz	Polarity: Vertical
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 3	



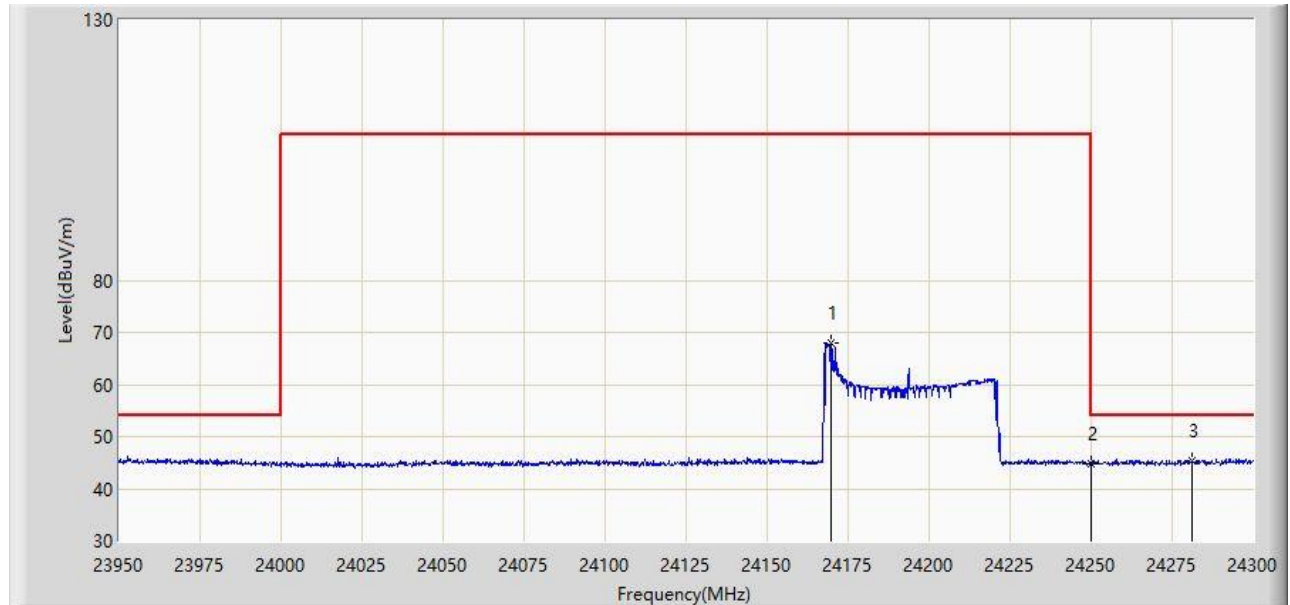
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		24168.926	86.715	95.982	N/A	N/A	-9.266	PK
2		24250.000	55.913	65.067	-18.087	74.000	-9.154	PK
3	*	24298.600	57.979	66.928	-16.021	74.000	-8.950	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

Site: SIP-AC2	Time: 2023/08/23 - 17:44
Limit: FCC PART 15.249_Bandedge	Engineer: Mero Zhou
Probe: BBHA 9170_00934_18-40GHz	Polarity: Vertical
EUT: SMART RADAR TAILLIGHT	Power: By Battery
Test Mode 3	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		24169.625	68.047	77.326	N/A	N/A	-9.279	Average
2		24250.000	44.882	54.036	-9.118	54.000	-9.154	Average
3	*	24281.100	45.385	54.507	-8.615	54.000	-9.122	Average

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB).

6.5. 20dB Spectrum Bandwidth Measurement

6.5.1. Test Limit

Intentional radiators must be designed to ensure that the 20 dB bandwidth of the emission in the specific band.

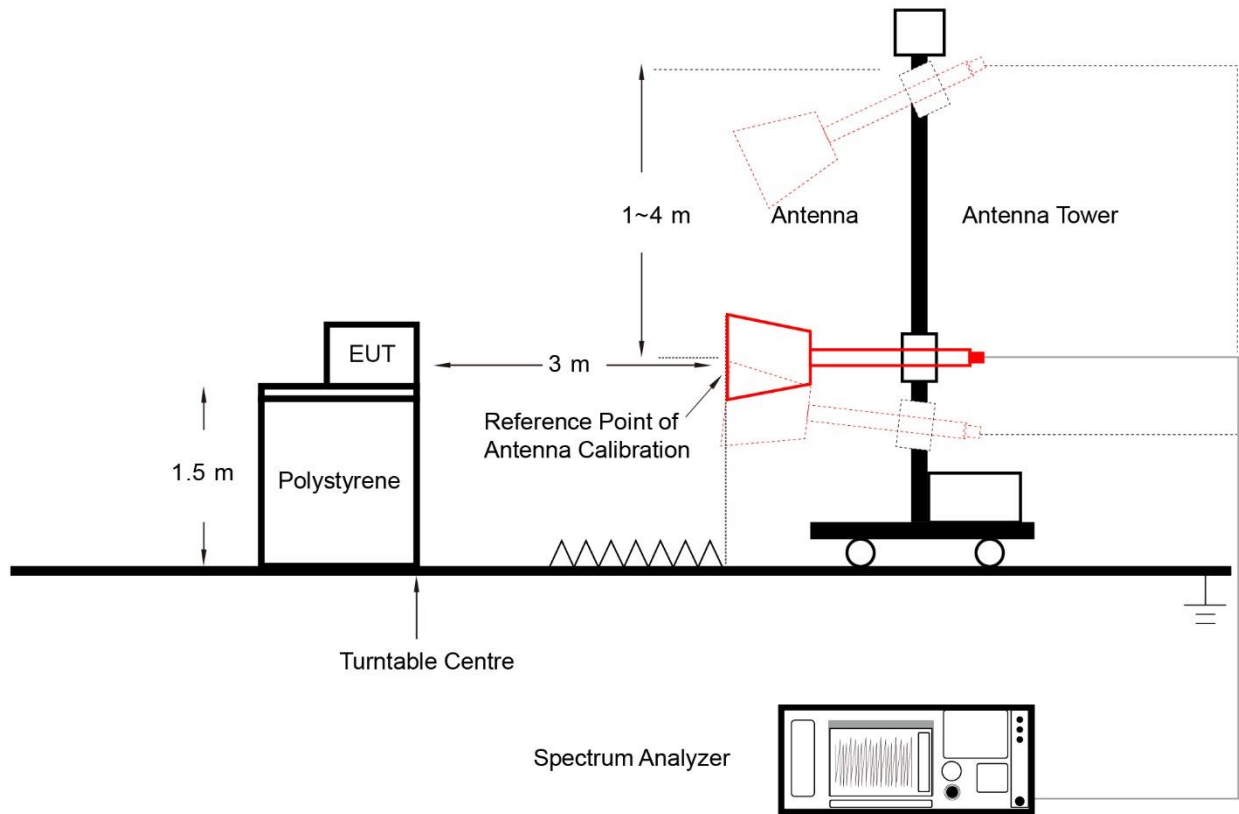
6.5.2. Test Procedure

ANSI C63.10-2013 Clause 6.9.2

6.5.3. Test Setting

1. Set the spectrum span range to overlap the nominal center frequency
2. Set RBW = 1% ~ 5% of the OBW
3. $VBW \geq 3 \times RBW$
4. Detector = Peak
5. Trace mode = max hold
6. Sweep = auto couple
7. Allow the trace to stabilize and marker the highest level
8. Use Occupied BW function to determine two frequencies, one at the lowest frequency and the other at the highest frequency

6.5.4. Test Setup



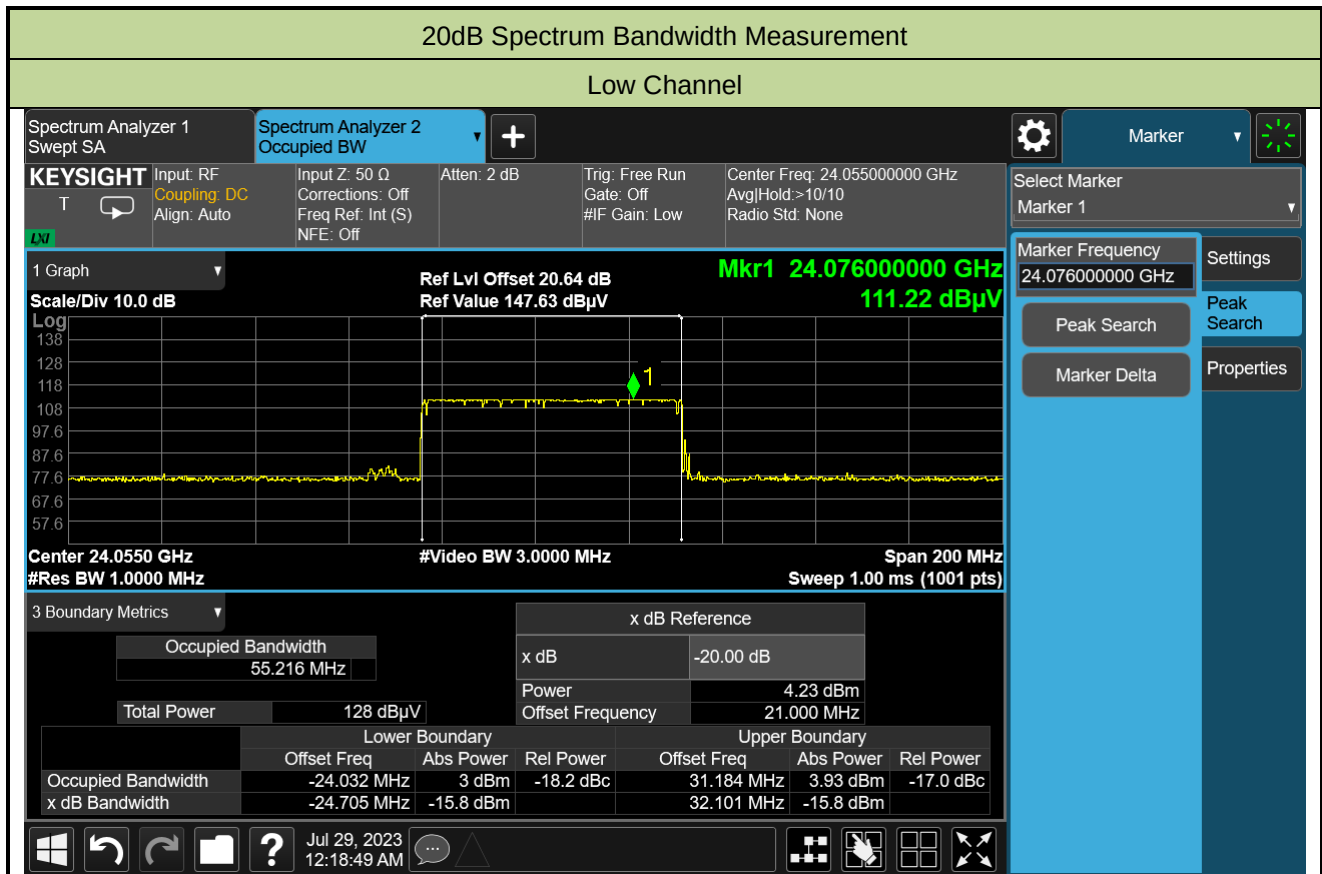
6.5.5. Test Result

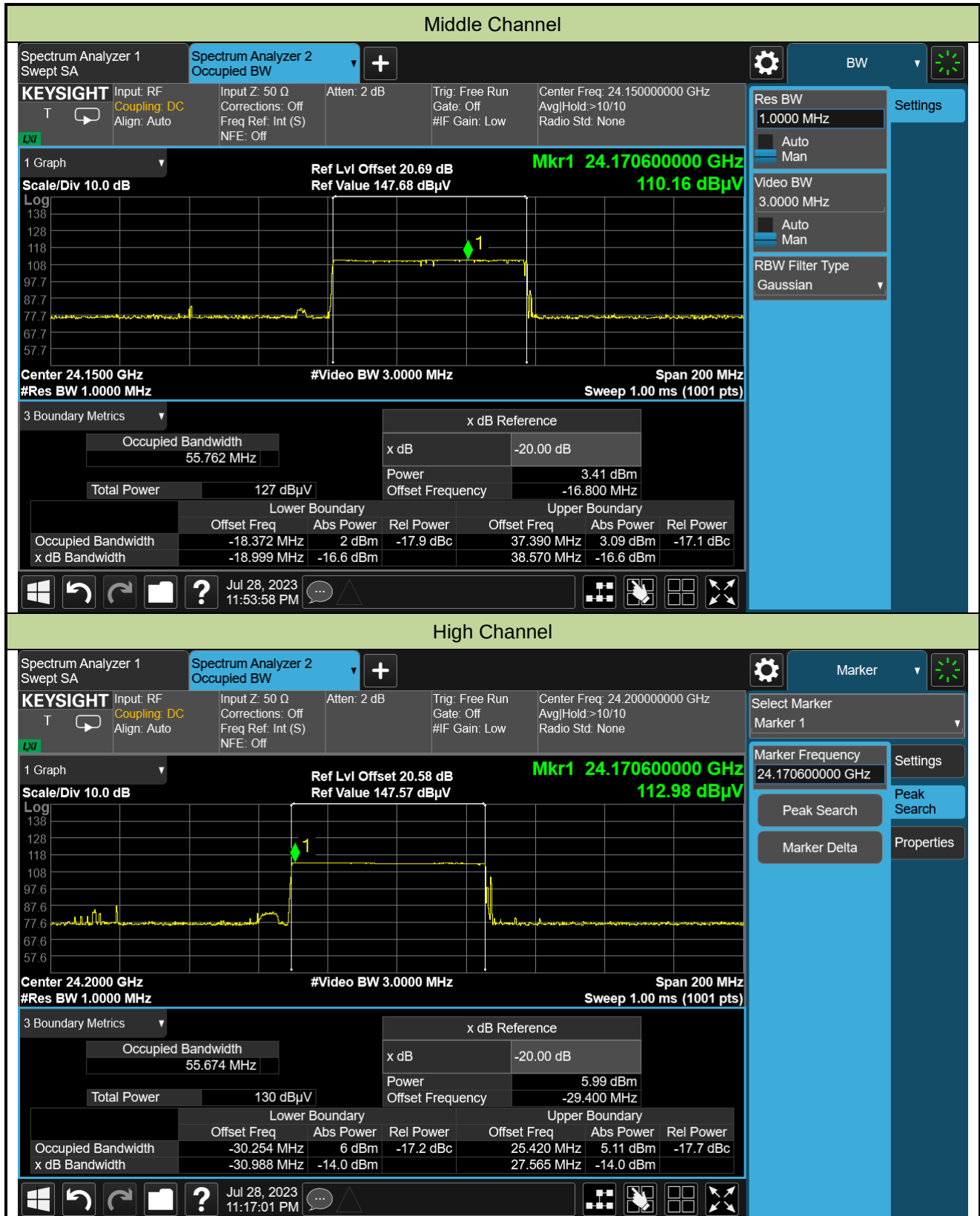
Test Site	SIP-AC2	Test Date	2023-07-28 ~ 2023-07-29
Test Engineer	Wayne Wang		

Test Channel	20dB Bandwidth (MHz)	F _L (MHz)	F _L Limit (MHz)	F _H (MHz)	F _H Limit (MHz)	Result
Low Channel	56.806	24030.295	≥ 24000	24087.101	≤ 24250	Pass
Middle Channel	57.569	24131.001	≥ 24000	24188.570	≤ 24250	Pass
High Channel	58.553	24169.012	≥ 24000	24227.565	≤ 24250	Pass

Note: Low Frequency (F_L) = Center Frequency + Lower Boundary;

High Frequency (F_H) = Center Frequency + Upper Boundary.





Appendix A - Test Setup Photograph

Refer to “2306RSU044-UT” file.

Appendix B - EUT Photograph

Refer to “2306RSU044-UE” file.