



TEST REPORT

For 2.4G



Report No. : **CHTW24070105** Report Verification:

Project No...... : **SHT2311059503EW**

FCC ID..... : **2A2SN-SKYCELL900**

Applicant's name..... : **SkyCell AG**

Address..... : **Hardturmstrasse 11, 8005 Zürich, Switzerland**

Product Name : **MR Gateway**

Trade Mark : -

Model No. : **MR 900**

Listed Model(s) : -

Standard : **FCC CFR Title 47 Part 15 Subpart C § 15.247**

Date of receipt of test sample..... : **Jan.16, 2024**

Date of testing..... : **Jan.16, 2024 - Jul.25, 2024**

Date of issue..... : **Jul.26, 2024**

Result..... : **PASS**

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Testing Laboratory Name : **Shenzhen Huatongwei International Inspection Co., Ltd.**

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- [FCC CFR Title 47 Part 15 Subpart C § 15.247](#): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2020](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2024-07-26	Original

2. TEST DESCRIPTION

Report clause	Test Items	Standard Requirement	Result	Test Engineer
5.1	Antenna Requirement	15.203/15.247(c)	PASS	Xiangyu Wei
5.2	AC Conducted Emission	15.207	PASS	JUNMAN.WANG
5.3	Peak Output Power	15.247(b)(3)	PASS	Xiangyu Wei
5.4	Power Spectral Density	15.247(e)	PASS	Xiangyu Wei
5.5	6dB Bandwidth	15.247(a)(2)	PASS	Xiangyu Wei
5.6	99% Occupied Bandwidth	-	PASS ^{*1}	Xiangyu Wei
5.7	Duty cycle	-	PASS ^{*1}	Xiangyu Wei
5.8	Conducted Band Edge and Spurious Emission	15.247(d)/15.205	PASS	Xiangyu Wei
5.9	Radiated Band Edge Emission	15.205/15.209	PASS	Yifan Wang
5.10	Radiated Spurious Emission	15.247(d)/15.205/15.209	PASS	Yifan Wang

Note:

- The measurement uncertainty is not included in the test result.
- *1: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

Applicant:	SkyCell AG
Address:	Hardturmstrasse 11, 8005 Zürich, Switzerland
Manufacturer:	SkyCell AG
Address:	Hardturmstrasse 11, 8005 Zürich, Switzerland

3.2. Product Description

Main unit information:	
Product Name:	MR Gateway
Trade Mark:	-
Model No.:	MR 900
Listed Model(s):	-
Power supply:	AC 85-264V from AC power
Hardware version:	2.0
Software version:	2.4.1rc2

3.3. Radio Specification Description

Frequency Range:	2401-2479MHz
Channel number:	39
Channel separation:	2MHz
Modulation type:	Chirp Spread Spectrum
Antenna Type:	Monopole Antenna
Antenna Gain:	2.00dBi

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.	
Laboratory Location	Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China	
Contact information:	Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn	
Qualifications	Type	Accreditation Number
	FCC Registration Number	762235
	FCC Designation Number	CN1181

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

Test Channel	Channel No.	Frequency (MHz)
CH _L	00	2401
-	01	2403
-	⋮	⋮
CH _M	20	2441
-	⋮	⋮
-	38	2477
CH _H	39	2479

4.2. Descriptions of Test mode

For RF test items
The engineering test program was provided and enabled to make EUT continuous transmit.
For Radiated spurious emissions:
The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report.

4.3. Test sample information

Test item	HTW sample no.
RF Conducted test items	Please refer to the description in the appendix report
RF Radiated test items	YPHT24030006001
EMI test items	YPHT24030006001

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.5. Testing environmental condition

Type	Requirement	Actual
Temperature:	15~35°C	25°C
Relative Humidity:	25~75%	50%
Air Pressure:	860~1060mbar	1000mbar

4.6. Statement of the measurement uncertainty

No.	Test Items	Measurement Uncertainty
1	AC Conducted Emission	3.21dB
2	Peak Output Power	1.07
3	Power Spectral Density	1.07
4	6dB Bandwidth	0.002%
5	99% Occupied Bandwidth	0.002%
6	Duty cycle	-
7	Conducted Band Edge and Spurious Emission	1.68dB
8	Radiated Band Edge Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz
9	Radiated Spurious Emission	4.54dB for 30MHz-1GHz 5.10dB for above 1GHz

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

4.7. Equipment Used during the Test

● RF Conducted test item							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Signal and spectrum Analyzer	R&S	HTWE0242	FSV40	100048	2023/08/22	2024/08/21
●	Signal & Spectrum Analyzer	R&S	HTWE0262	FSW26	103440	2023/08/22	2024/08/21
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2023/05/23	2024/05/22
●	Vector signal generator	R&S	HTWE0244	SMBV100A	260790	2024/5/25	2025/5/24
●	Test software	Tonscend	N/A	JS1120	N/A	N/A	N/A

● Conducted Emission							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2023/8/30	2024/8/29
●	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2023/08/18	2024/08/17
●	Protection Network	SCHWARZBECK	HTWE0567	VTSD9561FN	00899	2023/08/18	2024/08/17
●	ISN	FCC	HTWE0148	FCC-TLISN-T2-02	20371	2023/08/18	2024/08/17
●	ISN	FCC	HTWE0150	FCC-TLISN-T8-02	20375	2023/08/18	2024/08/17
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated Emission – 9kHz~30MHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/4/6	2026/4/5
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2023/8/22	2024/8/21
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/4/6	2024/4/5
●	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2024/04/08	2027/04/07
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated Emission - 30MHz~1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2023/4/6	2026/4/5
●	EMI Test Receiver	R&S	HTWE0099	ESCI 7	100900	2023/8/22	2024/8/21
●	Ultra-Broadband Antenna	SCHWARZBEC K	HTWE0119	VULB9163	546	2023/2/22	2026/2/21
●	Pre-Amplifier	SCHWARZBEC K	HTWE0295	BBV 9742	/	2023/5/25	2024/5/24
●	Pre-Amplifier	SCHWARZBEC K	HTWE0295	BBV 9742	/	2024/5/24	2025/5/23
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

● Radiated emission-Above 1GHz							
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)
●	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	C11121	2023/4/17	2026/4/16
●	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2023/8/22	2024/8/21
●	Horn Antenna	SCHWARZBECK	HTWE0126	BBHA 9120D	1011	2023/2/14	2026/2/13
●	Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2023/2/20	2026/2/19
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2023/5/25	2024/5/24
●	Broadband Pre-amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2024/6/6	2025/6/5
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2023/06/15	2024/06/14
●	Pre-Amplifier	CD	HTWE0071	PAP-0102	12004	2024/06/06	2025/06/05
●	Test Software	R&S	N/A	EMC32	N/A	N/A	N/A

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

REQUIREMENT

FCC CFR Title 47 Part 15 Subpart C Section 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, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

TEST RESULT

Passed **Not Applicable**

The antenna type is a Monopole antenna,
|

5.2. AC Conducted Emission

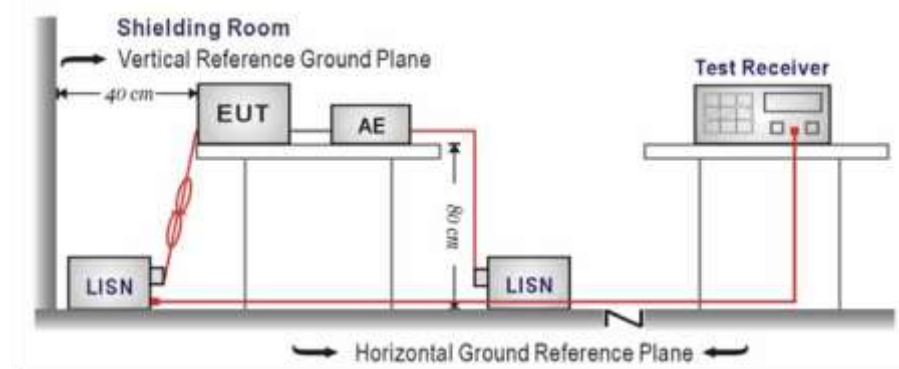
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE

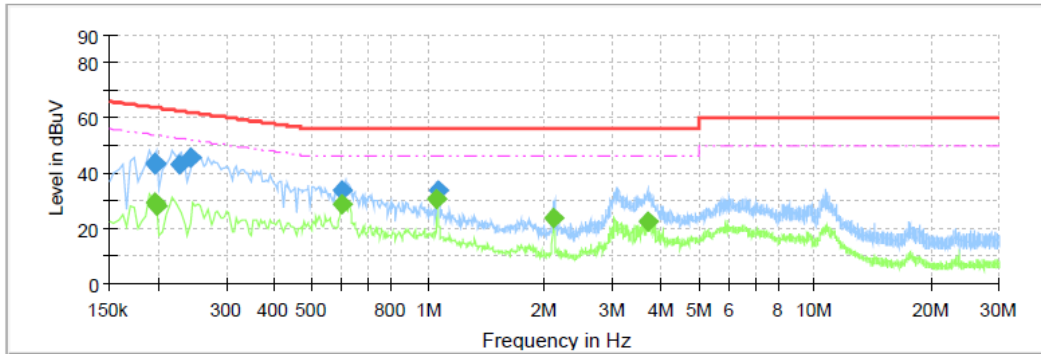
Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

Test Line:

L

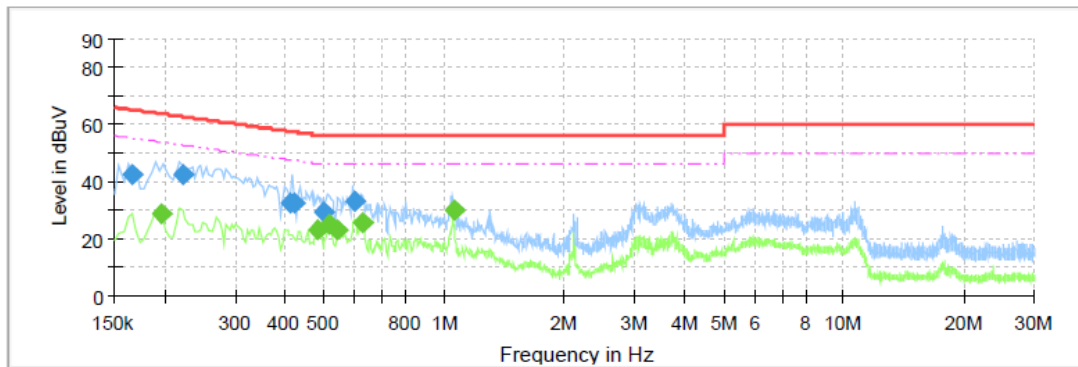


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.1955	---	29.52	53.80	24.28	L1	10.9
0.1955	43.50	---	63.80	20.30	L1	10.9
0.1965	43.30	---	63.76	20.46	L1	10.9
0.1995	---	27.93	53.63	25.70	L1	10.9
0.2275	42.93	---	62.54	19.61	L1	10.9
0.2435	45.51	---	61.98	16.46	L1	10.9
0.5995	---	28.62	46.00	17.38	L1	11.0
0.5995	33.50	---	56.00	22.50	L1	11.0
1.0515	---	30.89	46.00	15.11	L1	11.0
1.0595	33.85	---	56.00	22.15	L1	11.0
2.1195	---	23.75	46.00	22.25	L1	11.0
3.7035	---	22.36	46.00	23.64	L1	11.1

Test Line:

N



Final Result

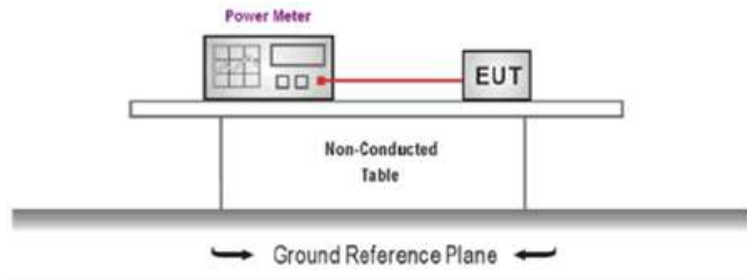
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Corr. (dB)
0.1660	42.30	---	65.16	22.85	N	10.7
0.1955	---	28.63	53.80	25.17	N	10.7
0.2235	42.77	---	62.69	19.92	N	10.7
0.4115	32.50	---	57.62	25.12	N	10.7
0.4235	32.23	---	57.38	25.15	N	10.7
0.4835	---	22.82	46.28	23.46	N	10.7
0.4995	29.21	---	56.01	26.80	N	10.7
0.5155	---	25.09	46.00	20.91	N	10.7
0.5435	---	22.95	46.00	23.05	N	10.7
0.5995	33.10	---	56.00	22.90	N	10.7
0.6235	---	25.65	46.00	20.35	N	10.8
1.0595	---	30.17	46.00	15.83	N	10.8

5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
4. Record the measurement data.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

Refer to the appendix report

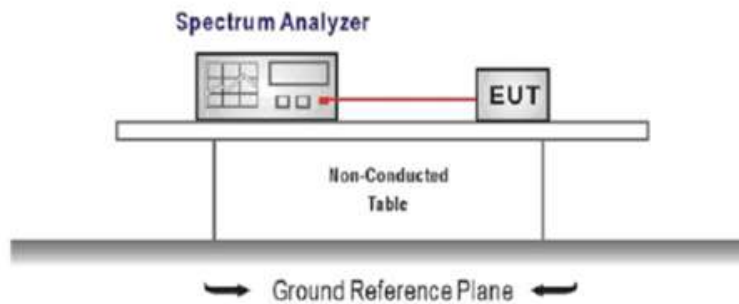
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
RBW = 3 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW
Sweep time = auto couple
Detector = peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

Refer to the appendix report

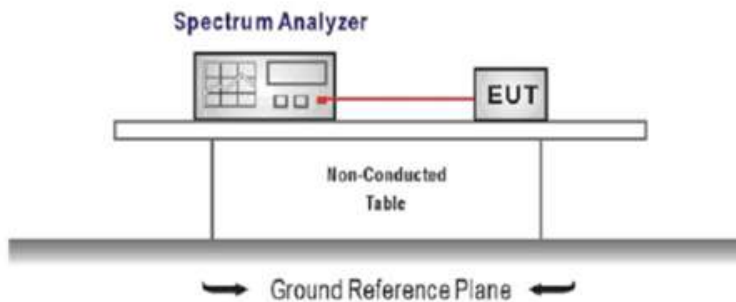
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency =DTS channel center frequency
Span=2 x DTS bandwidth
RBW = 100 kHz, VBW \geq 3 \times RBW
Sweep time= auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

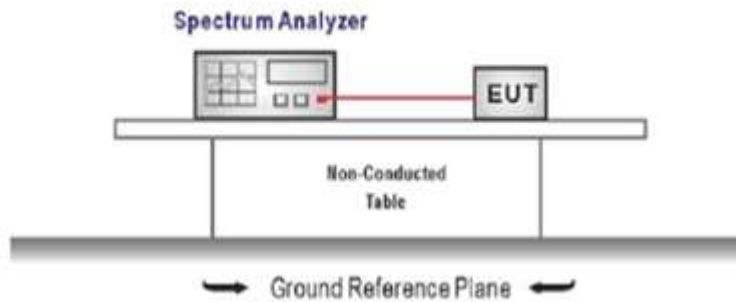
Refer to the appendix report

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = channel center frequency
Span $\geq 1.5 \times$ OBW
RBW = 1%~5%OBW
VBW $\geq 3 \times$ RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

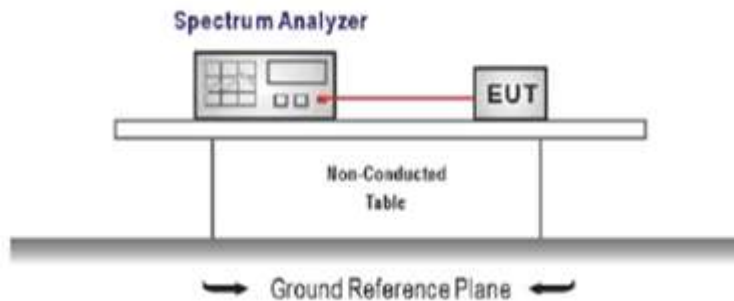
Refer to the appendix report

5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW \geq RBW
Sweep=as necessary to capture the entire dwell time,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE

Refer to the clause 4.2

TEST DATA

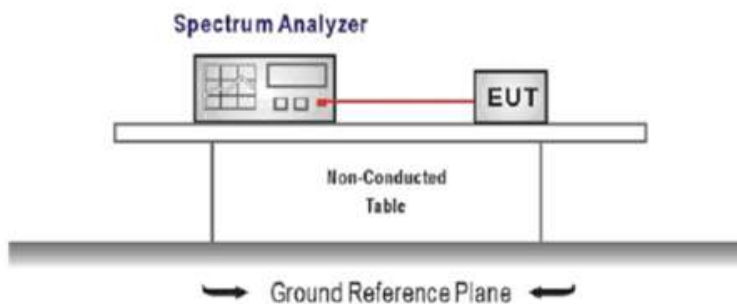
Refer to the appendix report

5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

Refer to the appendix report

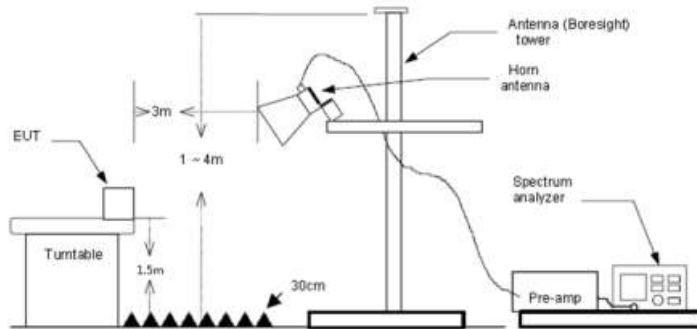
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
 For average measurement:
 - VBW=10Hz, When duty cycle is no less than 98 percent
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Test channel		CH00				Polarity		Horizontal			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	43.94	27.86	4.01	41.80	20.00	54.01	74.00	-19.99	Peak	
2	2390.03	45.10	27.54	4.31	41.80	20.00	55.15	74.00	-18.85	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	32.15	27.86	4.01	41.80	20.00	42.22	54.00	-11.78	Average	
2	2390.03	32.01	27.54	4.31	41.80	20.00	42.06	54.00	-11.94	Average	
Test channel		CH00				Polarity		Vertical			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	44.01	27.86	4.01	41.80	20.00	54.08	74.00	-19.92	Peak	
2	2390.03	45.21	27.54	4.31	41.80	20.00	55.26	74.00	-18.74	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2310.00	32.14	27.86	4.01	41.80	20.00	42.21	54.00	-11.79	Average	
2	2390.03	32.02	27.54	4.31	41.80	20.00	42.07	54.00	-11.93	Average	
Test channel		CH39				Polarity		Horizontal			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2483.50	55.30	27.33	4.18	41.80	20.00	65.01	74.00	-8.99	Peak	
2	2500.00	43.67	27.30	4.19	41.80	20.00	53.36	74.00	-20.64	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2483.52	40.77	27.33	4.18	41.80	20.00	50.48	54.00	-3.52	Average	
2	2500.00	32.16	27.30	4.19	41.80	20.00	41.85	54.00	-12.15	Average	
Test channel		CH39				Polarity		Vertical			
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2483.50	49.52	27.33	4.18	41.80	20.00	59.23	74.00	-14.77	Peak	
2	2500.00	43.65	27.30	4.19	41.80	20.00	53.34	74.00	-20.66	Peak	
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
1	2483.50	38.17	27.33	4.18	41.80	20.00	47.88	54.00	-6.12	Average	
2	2500.00	32.12	27.30	4.19	41.80	20.00	41.81	54.00	-12.19	Average	

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

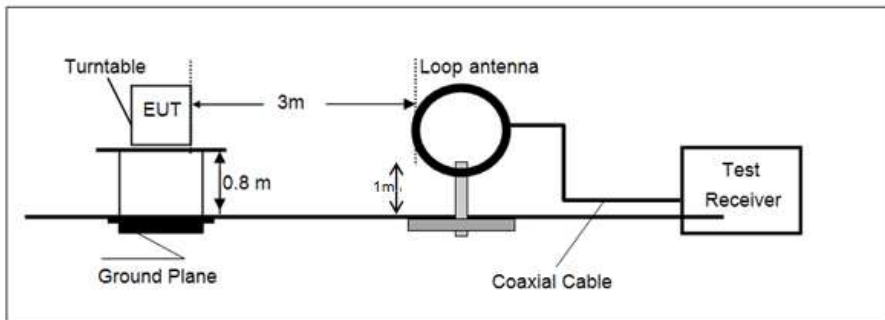
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

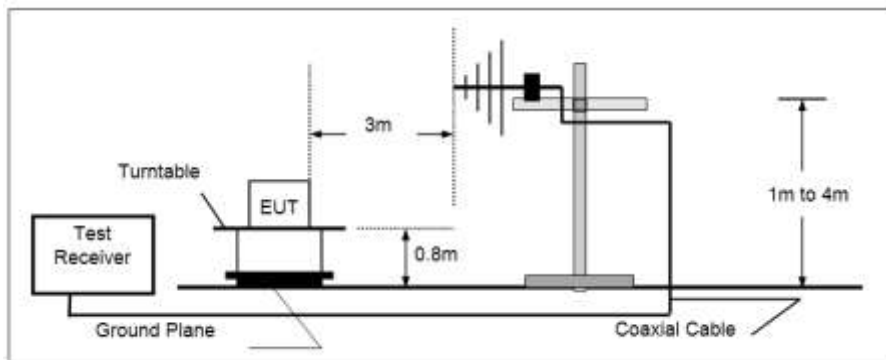
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

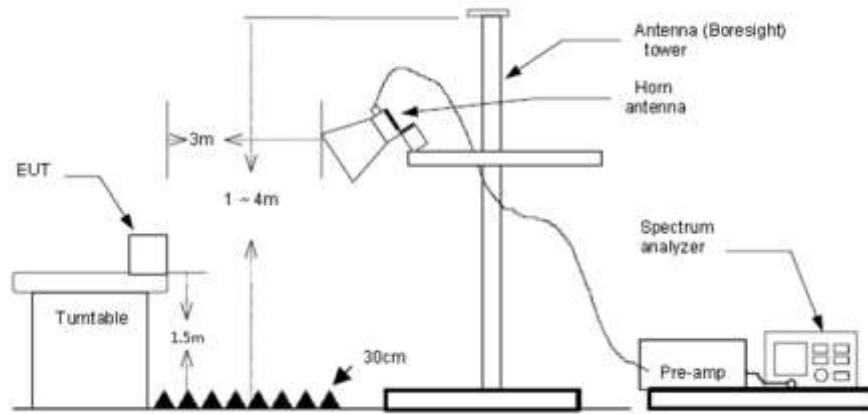
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
 - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
 - If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
 - For average measurement:
 - VBW=10Hz, When duty cycle is no less than 98 percent
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.6 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed **Not Applicable**

Note:

- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level– Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

For 9 kHz ~ 30 MHz

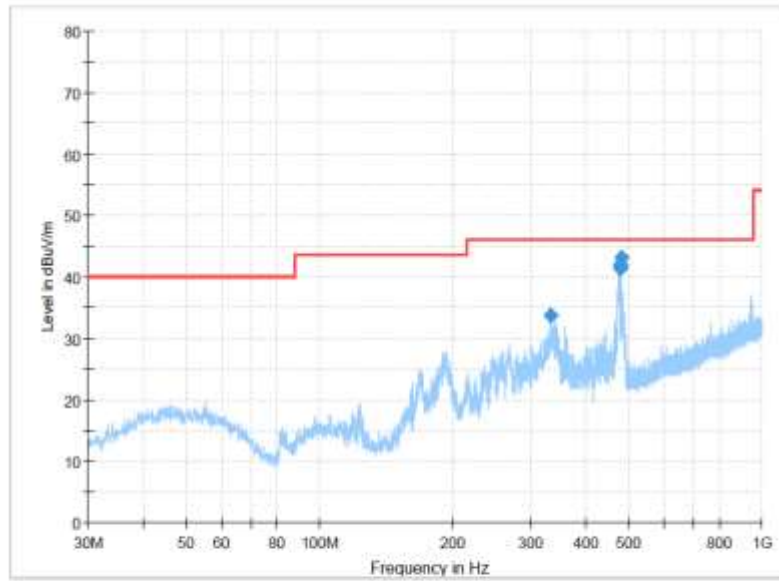
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH39 which it was worst case, so only show the worst case's data on this report.

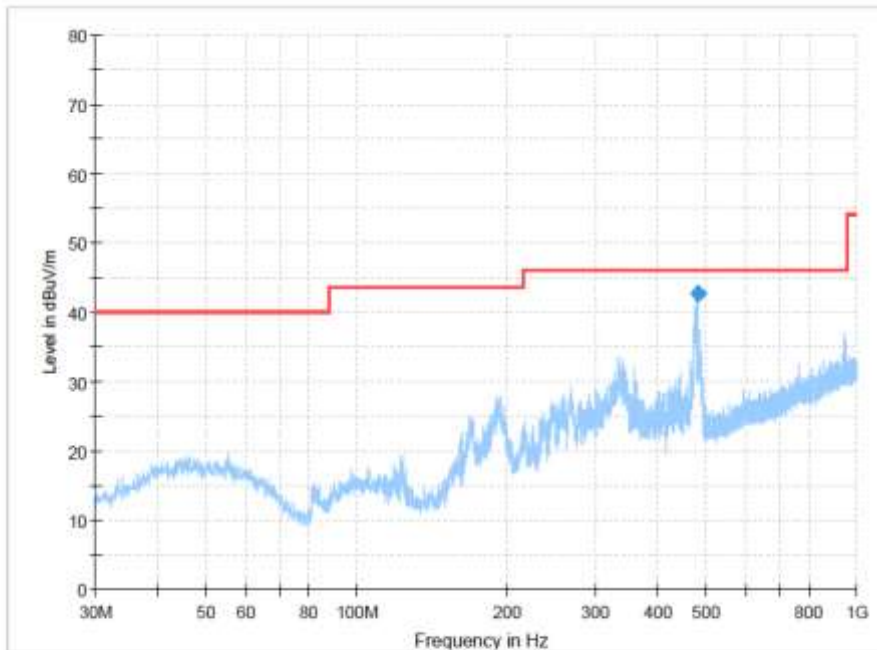
Polarization:

Horizontal



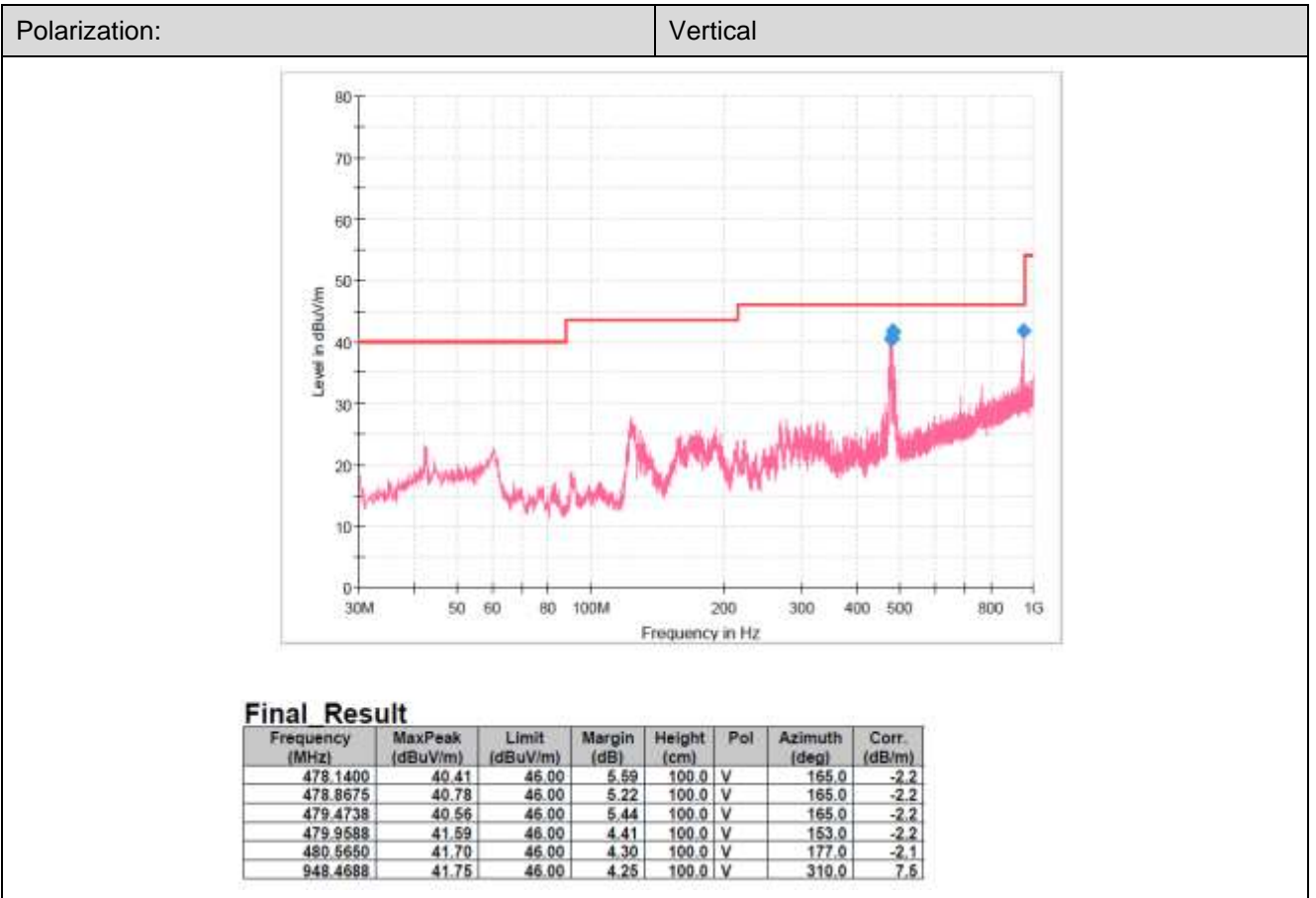
Final Result

Frequency (MHz)	MaxPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
334.0950	33.72	46.00	12.28	100.0	H	312.0	-5.7
476.5638	41.94	46.00	4.06	100.0	H	23.0	-2.3
478.2613	41.77	46.00	4.23	100.0	H	336.0	-2.2
478.8675	41.34	46.00	4.66	300.0	H	178.0	-2.2
479.4738	41.67	46.00	4.33	100.0	H	0.0	-2.2
480.0800	43.15	46.00	2.85	100.0	H	0.0	-2.1



Final Result

Frequency (MHz)	QuasiPeak (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
480.0600	42.73	46.00	3.27	192.0	H	52.0	-2.1



For 1 GHz ~ 25 GHz

Test channel	CH00	Polarity	Horizontal						
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4809.00	54.94	31.28	6.00	41.34	50.88	54.00	-3.12	Average
2	4809.50	56.33	31.28	6.00	41.34	52.27	74.00	-21.73	Peak
3	6696.01	41.55	34.11	7.25	40.79	42.12	74.00	-31.88	Peak
4	7209.00	48.30	36.00	7.56	40.95	50.91	54.00	-3.09	Average
5	7209.02	49.37	36.00	7.56	40.95	51.98	74.00	-22.02	Peak
6	10534.09	40.66	40.00	9.77	41.04	49.39	74.00	-24.61	Peak

Test channel	CH00	Polarity	Vertical						
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	5762.24	46.74	31.92	6.66	40.71	44.61	74.00	-29.39	Peak
2	7209.00	48.06	36.00	7.56	40.95	50.67	54.00	-3.33	Average
3	7209.02	50.11	36.00	7.56	40.95	52.72	74.00	-21.28	Peak
4	9298.80	39.51	39.20	9.22	40.96	46.97	74.00	-27.03	Peak
5	12024.96	42.55	39.53	10.72	42.30	50.50	74.00	-23.50	Peak

Test channel	CH20	Polarity	Horizontal						
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4883.00	54.66	31.20	6.21	41.25	50.82	54.00	-3.18	Average
2	4883.52	55.71	31.20	6.21	41.25	51.87	74.00	-22.13	Peak
3	5762.24	43.97	31.92	6.66	40.71	41.84	74.00	-32.16	Peak
4	7338.00	47.86	36.18	7.73	40.98	50.79	54.00	-3.21	Average
5	7338.62	49.99	36.18	7.73	40.98	52.92	74.00	-21.08	Peak
6	10427.37	39.95	39.93	9.72	40.69	48.91	74.00	-25.09	Peak

Test channel		CH20			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4883.52	45.54	31.20	6.21	41.25	41.70	74.00	-32.30	Peak
2	5762.24	45.69	31.92	6.66	40.71	43.56	74.00	-30.44	Peak
3	7338.00	47.53	36.18	7.73	40.98	50.46	54.00	-3.54	Average
4	7338.62	49.26	36.18	7.73	40.98	52.19	74.00	-21.81	Peak
5	12024.96	41.53	39.53	10.72	42.30	49.48	74.00	-24.52	Peak
Test channel		CH39			Polarity		Horizontal		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	3249.76	45.90	28.60	4.78	41.60	37.68	74.00	-36.32	Peak
2	4958.00	55.97	31.23	6.07	41.16	52.11	54.00	-1.89	Average
3	4958.68	59.33	31.23	6.07	41.16	55.47	74.00	-18.53	Peak
4	7451.00	48.68	36.20	7.83	41.05	51.66	54.00	-2.34	Average
5	7451.57	49.85	36.20	7.83	41.05	52.83	74.00	-21.17	Peak
6	10507.31	40.10	40.00	9.76	40.95	48.91	74.00	-25.09	Peak
Test channel		CH39			Polarity		Vertical		
Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
1	4958.68	50.91	31.23	6.07	41.16	47.05	74.00	-26.95	Peak
2	5762.24	49.42	31.92	6.66	40.71	47.29	74.00	-26.71	Peak
3	7432.00	49.33	36.20	7.84	41.03	52.34	54.00	-1.66	Average
4	7432.62	52.21	36.20	7.84	41.03	55.22	74.00	-18.78	Peak
5	10036.73	41.88	39.20	9.52	41.26	49.34	74.00	-24.66	Peak

6. APPENDIX REPORT

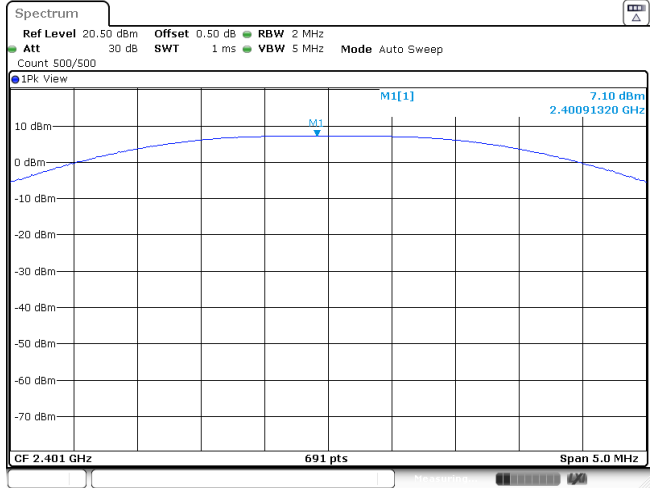
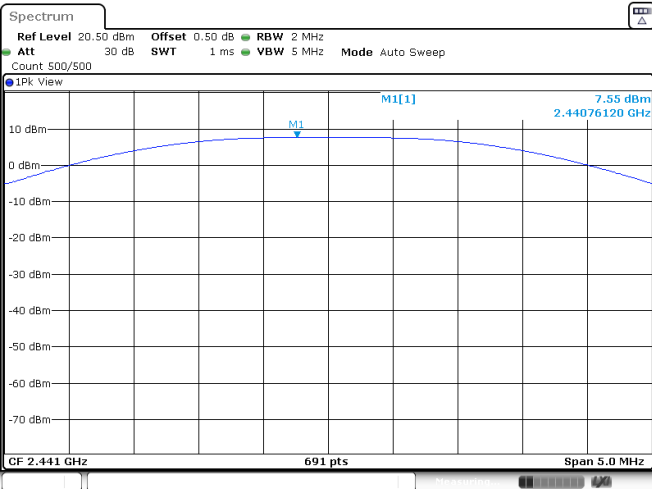
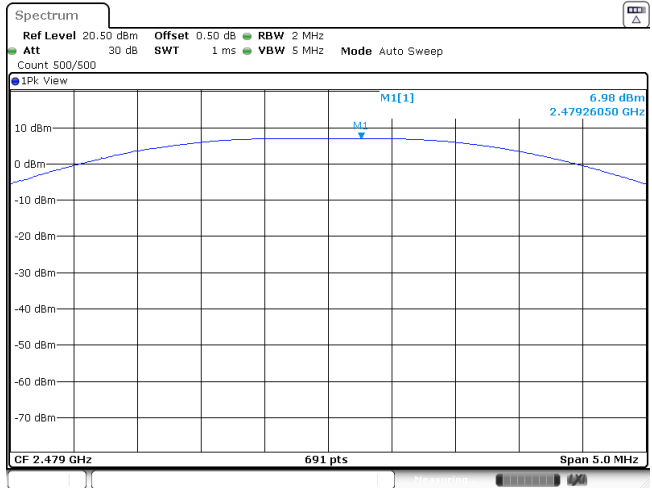
APPENDIX REPORT

Project No.	SHT2311059503EW	Radio Specification	2.4G
Test sample No.	YPHT24030006001	Model No.	MR900
Start test date	2024-04-08	Finish date	2024-07-01
Temperature	25°C	Humidity	52%
Test Engineer	Xiangyu Wei	Auditor	Xiaodong Zheo

Appendix clause	Test item	Result
A	Peak Output Power	PASS
B	Power Spectral Density	PASS
C	6 dB Bandwidth	PASS
D	99% Occupied Bandwidth	PASS
E	Duty cycle	PASS
F	Band edge and Spurious Emissions (conducted)	PASS

Appendix A: Peak Output Power

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
LORA	CH _L	7.10	7.04	≤ 30.00	Pass
	CH _M	7.55	7.49		
	CH _H	6.98	6.94		

<p>CH_L</p>	 <p>Spectrum Ref Level 20.50 dBm Offset 0.50 dB RBW 2 MHz Att 30 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPk View M1 M1[1] 7.10 dBm 2.40091320 GHz CF 2.401 GHz 691 pts Span 5.0 MHz Date: 8 FEB 2024 11:41:45</p>
<p>CH_M</p>	 <p>Spectrum Ref Level 20.50 dBm Offset 0.50 dB RBW 2 MHz Att 30 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPk View M1 M1[1] 7.55 dBm 2.44076120 GHz CF 2.441 GHz 691 pts Span 5.0 MHz Date: 1 JUL 2024 10:13:39</p>
<p>CH_H</p>	 <p>Spectrum Ref Level 20.50 dBm Offset 0.50 dB RBW 2 MHz Att 30 dB SWT 1 ms VBW 5 MHz Mode Auto Sweep Count 500/500 IPk View M1 M1[1] 6.98 dBm 2.47926050 GHz CF 2.479 GHz 691 pts Span 5.0 MHz Date: 8 FEB 2024 11:49:44</p>

Appendix B: Power Spectral Density

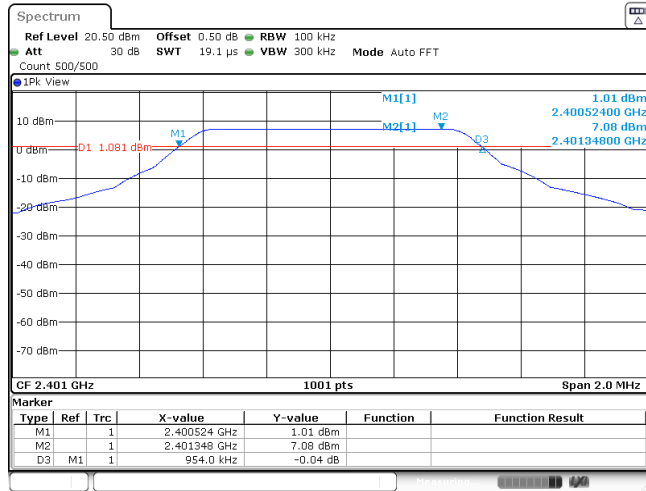
Type	Channel	Power Spectral Density(dBm/3KHz)	Limit (dBm/3KHz)	Result
LORA	CH _L	-8.53	≤8.00	Pass
	CH _M	-8.32		
	CH _H	-9.08		

<p>CH_L</p>	<p>Ref Level 20.50 dBm Offset 0.50 dB RBW 3 kHz Att 30 dB SWT 1.3 ms VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max M1[1] -8.53 dBm 2.40134730 GHz</p> <p>CF 2.401 GHz 691 pts Span 5.0 MHz</p> <p>Date: 8 FEB 2024 11:42:00</p>
<p>CH_M</p>	<p>Ref Level 10.50 dBm Offset 0.50 dB RBW 3 kHz Att 20 dB SWT 1.3 ms VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max M1[1] -8.32 dBm 2.44134730 GHz</p> <p>CF 2.441 GHz 691 pts Span 5.0 MHz</p> <p>Date: 1 JUL 2024 10:13:53</p>
<p>CH_H</p>	<p>Ref Level 10.50 dBm Offset 0.50 dB RBW 3 kHz Att 20 dB SWT 1.3 ms VBW 10 kHz Mode Auto FFT Count 100/100</p> <p>IPK Max M1[1] -9.08 dBm 2.47934730 GHz</p> <p>CF 2.479 GHz 691 pts Span 5.0 MHz</p> <p>Date: 8 FEB 2024 11:49:28</p>

Appendix C: 6dB bandwidth

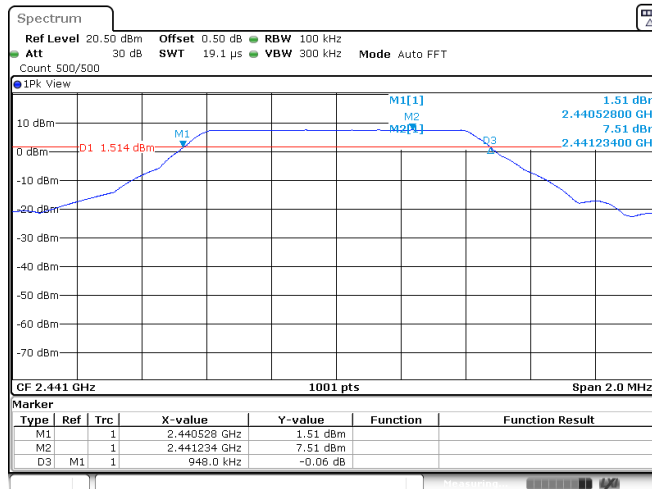
Type	Channel	6dB Bandwidth(kHz)	Limit (kHz)	Result
LORA	CH _L	954.00	≥500	Pass
	CH _M	948.00		
	CH _H	950.00		

CH_L



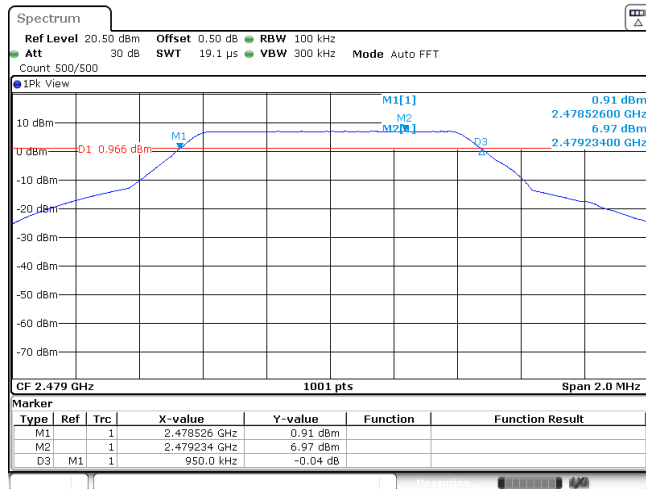
Date: 8 APR 2024 11:41:30

CH_M



Date: 1 JUL 2024 10:13:23

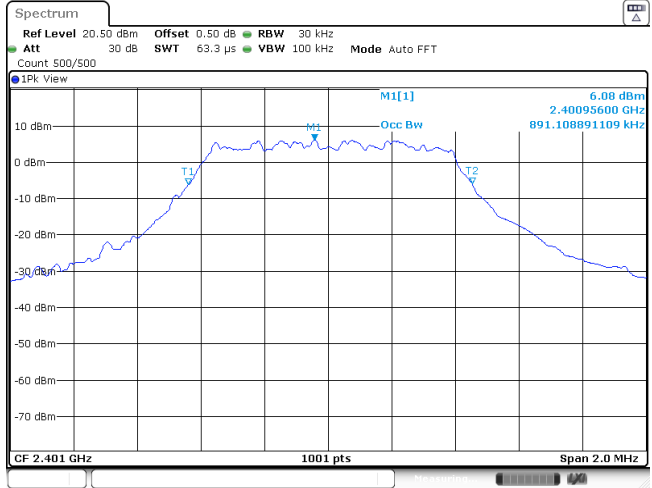
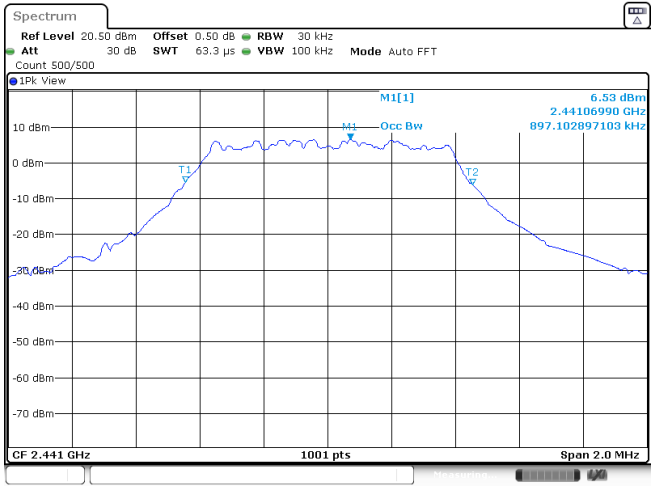
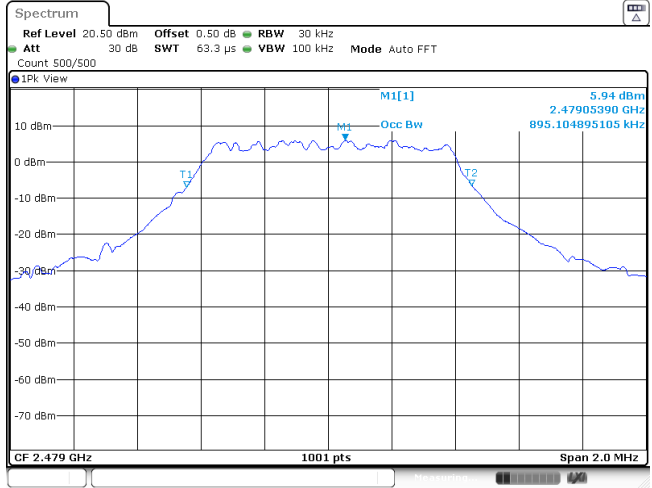
CH_H



Date: 8 APR 2024 11:48:58

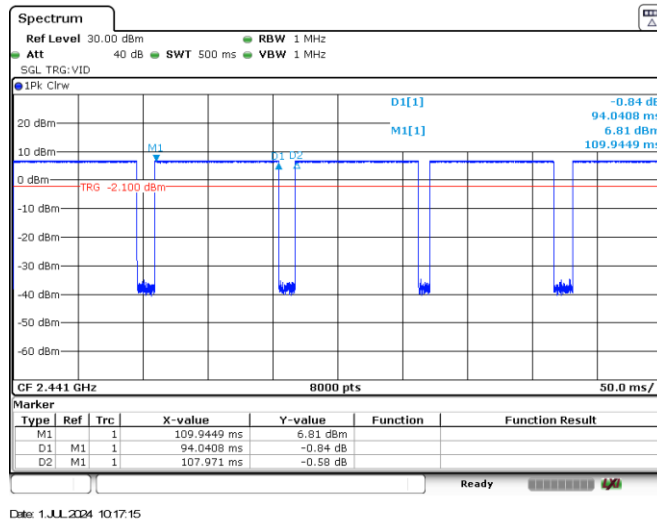
Appendix D: 99% Occupied Bandwidth

Type	Channel	99% Occupied Bandwidth(MHz)	Limit (kHz)	Result
LORA	CH _L	0.89	-	Pass
	CH _M	0.90		
	CH _H	0.90		

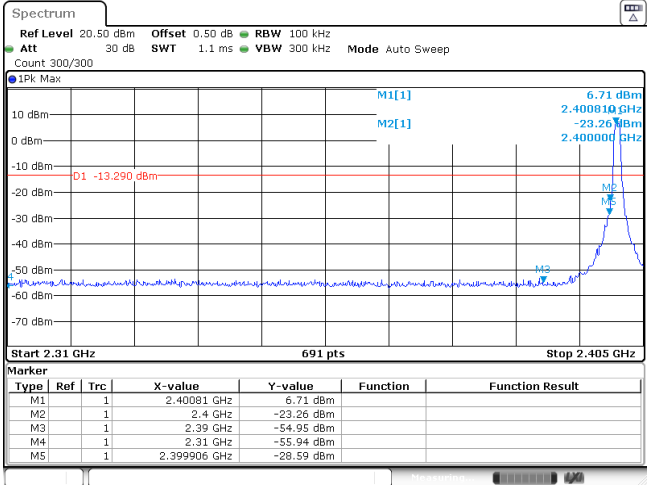
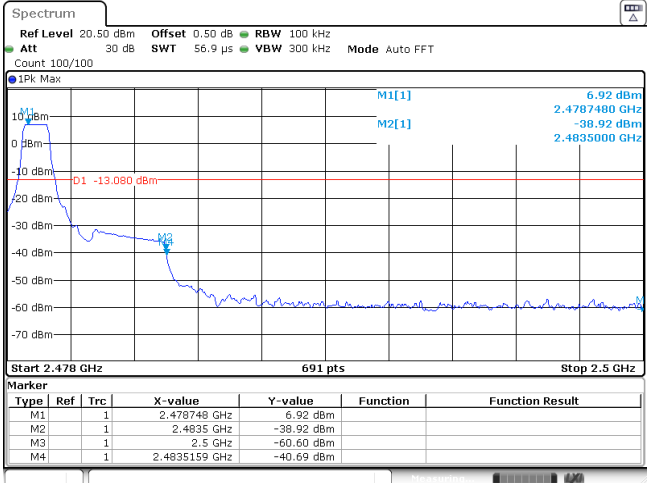
<p>CH_L</p>	 <p>Ref Level 20.50 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500</p> <p>1Pk View</p> <p>M1[1] 6.08 dBm 2.40095600 GHz 891.108891109 kHz</p> <p>CF 2.401 GHz 1001 pts Span 2.0 MHz</p> <p>Date: 8 FEB 2024 11:41:37</p>
<p>CH_M</p>	 <p>Ref Level 20.50 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500</p> <p>1Pk View</p> <p>M1[1] 6.53 dBm 2.44106990 GHz 897.102897103 kHz</p> <p>CF 2.441 GHz 1001 pts Span 2.0 MHz</p> <p>Date: 8 FEB 2024 10:43:31</p>
<p>CH_H</p>	 <p>Ref Level 20.50 dBm Offset 0.50 dB RBW 30 kHz Att 30 dB SWT 63.3 μs VBW 100 kHz Mode Auto FFT Count 500/500</p> <p>1Pk View</p> <p>M1[1] 5.94 dBm 2.47905390 GHz 895.104895105 kHz</p> <p>CF 2.479 GHz 1001 pts Span 2.0 MHz</p> <p>Date: 8 FEB 2024 11:49:06</p>

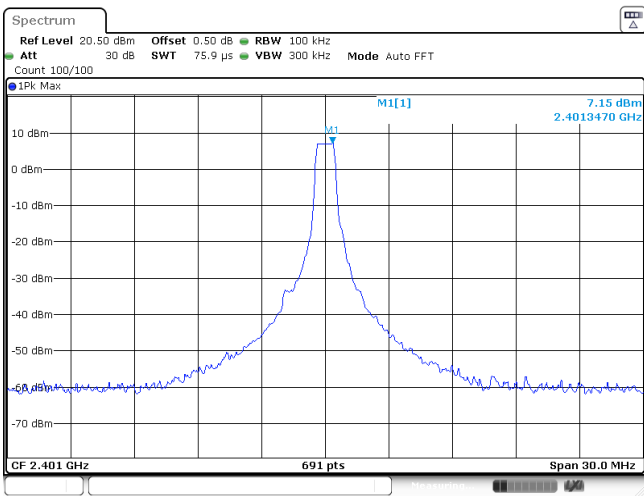
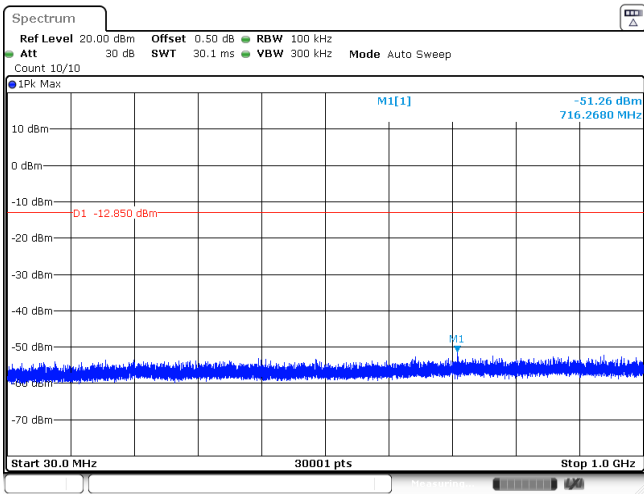
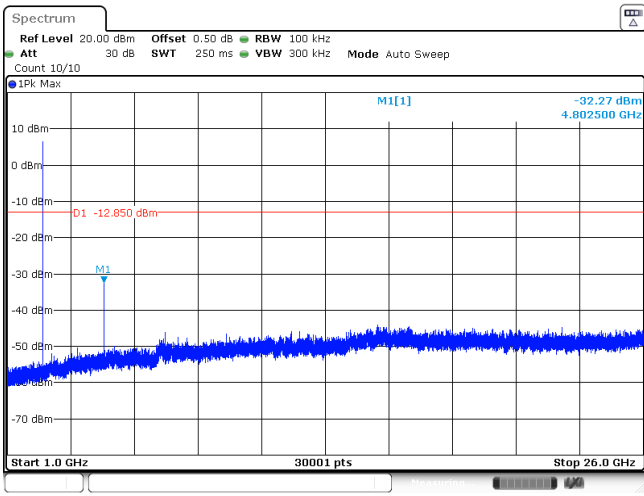
Appendix E: Duty cycle

Test Frequency (MHz)	T _{on} time for single burst (ms)	T _{period} (ms)	Duty cycle	1/T _{on} time (kHz)
2441	94.04	107.97	87.10%	0.01

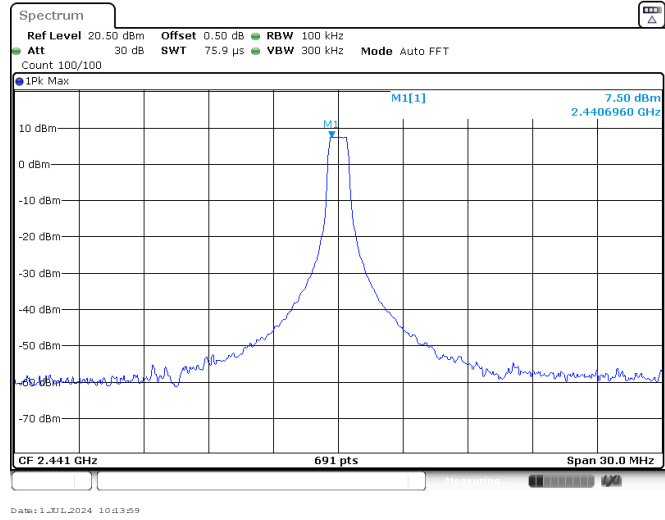


Appendix F: Band edge and Spurious Emissions (conducted)

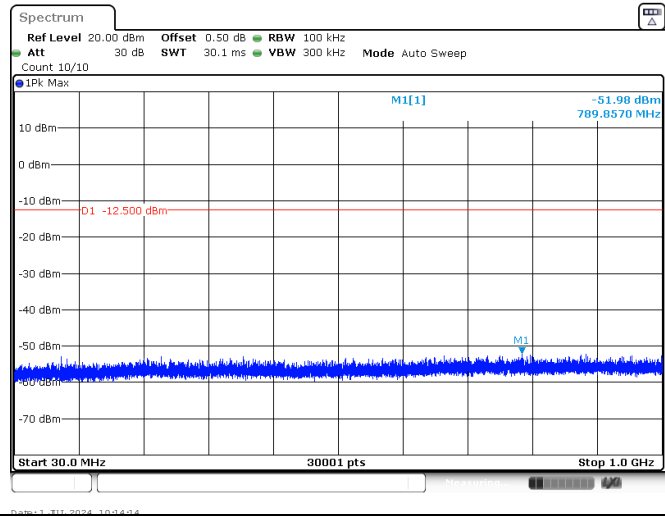
Test Item:	Band edge																																										
<p>CH_L</p>	 <p>Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 1.1 ms VBW 300 kHz Mode Auto Sweep Count 300/300</p> <p>1Pk Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 6.71 dBm 2.400810 GHz M2[1] -23.26 dBm 2.400000 GHz D1 -13.290 dBm M3 M4 M5</p> <p>Start 2.31 GHz 691 pts Stop 2.405 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.40081 GHz</td> <td>6.71 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4 GHz</td> <td>-23.26 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.39 GHz</td> <td>-54.95 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.31 GHz</td> <td>-55.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>M5</td> <td>1</td> <td></td> <td>2.399906 GHz</td> <td>-28.59 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 8 SEP 2024 11:02:08</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40081 GHz	6.71 dBm			M2	1		2.4 GHz	-23.26 dBm			M3	1		2.39 GHz	-54.95 dBm			M4	1		2.31 GHz	-55.94 dBm			M5	1		2.399906 GHz	-28.59 dBm		
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<p>CH_H</p>	 <p>Ref Level 20.50 dBm Offset 0.50 dB RBW 100 kHz Att 30 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT Count 100/100</p> <p>1Pk Max</p> <p>10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm</p> <p>M1[1] 6.92 dBm 2.4787480 GHz M2[1] -38.92 dBm 2.4835000 GHz D1 -13.080 dBm M3 M4</p> <p>Start 2.478 GHz 691 pts Stop 2.5 GHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>2.478748 GHz</td> <td>6.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>M2</td> <td>1</td> <td></td> <td>2.4835 GHz</td> <td>-38.92 dBm</td> <td></td> <td></td> </tr> <tr> <td>M3</td> <td>1</td> <td></td> <td>2.5 GHz</td> <td>-60.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>M4</td> <td>1</td> <td></td> <td>2.4835159 GHz</td> <td>-40.69 dBm</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 8 SEP 2024 11:03:07</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.478748 GHz	6.92 dBm			M2	1		2.4835 GHz	-38.92 dBm			M3	1		2.5 GHz	-60.60 dBm			M4	1		2.4835159 GHz	-40.69 dBm									
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Test Item:	SE
<p>CH_L Reference level</p>	 <p>7.15 dBm 2.4013470 GHz</p> <p>CF 2.401 GHz 691 pts Span 30.0 MHz</p> <p>Date: 8 APR. 2024 11:12:14</p>
<p>CH_L 30MHz~1000MHz</p>	 <p>-51.26 dBm 716.2680 MHz</p> <p>D1 -12.850 dBm</p> <p>Start 30.0 MHz 30001 pts Stop 1.0 GHz</p> <p>Date: 8 APR. 2024 11:12:29</p>
<p>CH_L 1GHz~26GHz</p>	 <p>-32.27 dBm 4.802500 GHz</p> <p>D1 -12.850 dBm</p> <p>Start 1.0 GHz 30001 pts Stop 26.0 GHz</p> <p>Date: 8 APR. 2024 11:12:45</p>

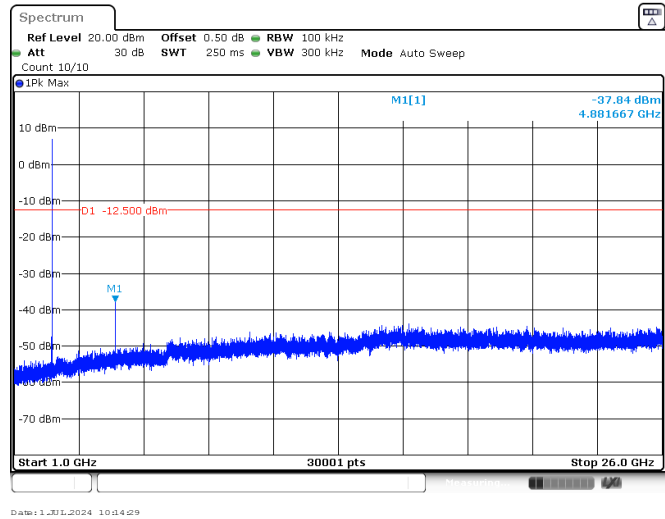
CH_M
Reference level



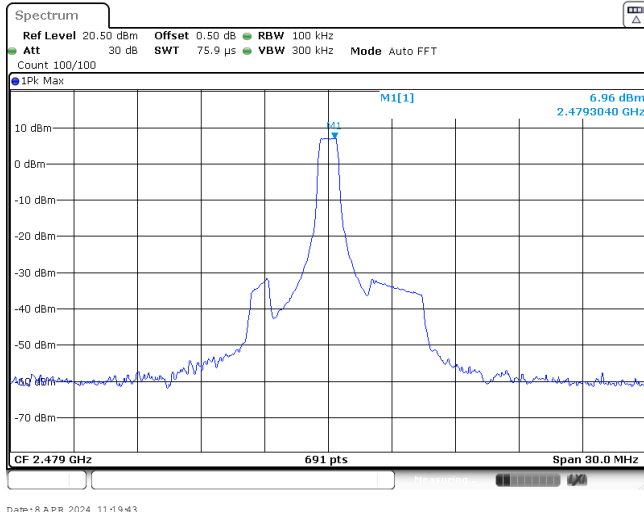
CH_M
30MHz~1000MHz



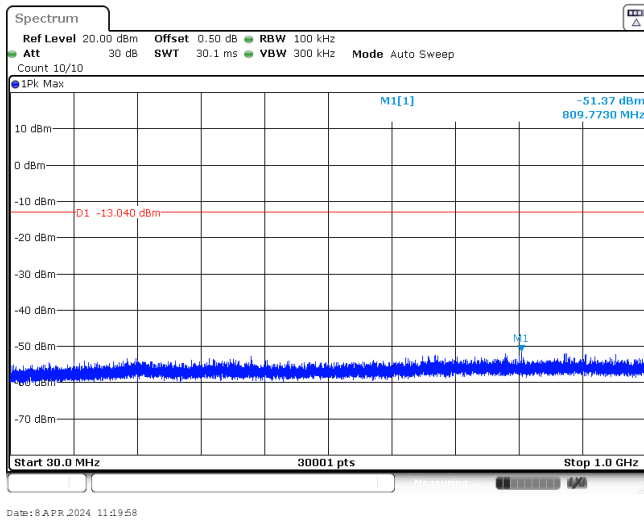
CH_M
1GHz~26GHz



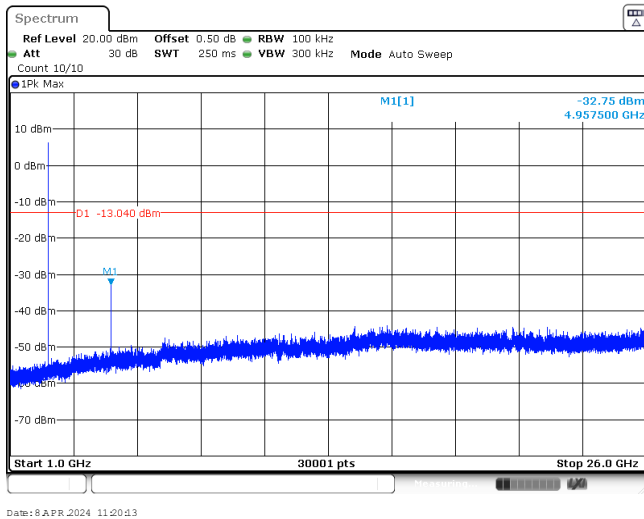
CH_H
Reference level



CH_H
30MHz~1000MHz



CH_H
1GHz~26GHz



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