



FCC - TEST REPORT

Report Number : **68.910.20.0042.01** Date of Issue: May 31, 2022

Model : ST200

Product Type : Mini Stepper

Applicant : Sportsoul Co., Ltd

Address : No.3 Road, Qingdao, Industrial District, Qingdao, China

Factory : Qingdao Triple Master health technologies Co., LTD..

Address : No.3 Road, Qingda Industrial District, ChengYang, Qingdao, China

Test Result : **n Positive** **O Negative**

Total pages including Appendices : 37

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

Company name: TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12 & 13, Zhiheng Wisdomland Business Park, Nantou Checkpoint
Road 2, Nanshan District
Shenzhen 518052
P.R. China

Telephone: 86 755 8828 6998
Fax: 86 755 8288 5299

FCC Registration No.: 514049

3 Description of the Equipment Under Test

Product:	Mini Stepper
Model no.:	ST200
FCC ID:	2A6GW-ST200
Options and accessories:	N/A
Rating:	3.0VDC(Supplied by 2*1.5V battery)
RF Transmission Frequency:	2402MHz-2480MHz
No. of Operated Channel:	40
Modulation:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	-3dBi
Description of the EUT:	The Equipment Under Test (EUT) is Mini Stepper operated at 2.4GHz

4 Summary of Test Standards

Test Standards	
FCC Part 15 Subpart C 10-1-2020 Edition	PART 15 - RADIO FREQUENCY DEVICES Subpart C - Intentional Radiators

All the test methods were according to KDB558074 D01 v05r02 DTS Measurement Guidance and ANSI C63.10 (2013).

5 Summary of Test Results

Technical Requirements					
FCC Part 15 Subpart C		Test Site	Test Result		
Test Condition			Pass	Fail	N/A
§15.207	Conducted emission AC power port	--	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247 (b) (1)	Conducted peak output power	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(a)(1)	20dB bandwidth	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)	Carrier frequency separation	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)(iii)	Number of hopping frequencies	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(1)(iii)	Dwell Time	---	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
§15.247(a)(2)	6dB bandwidth and 99% Occupied Bandwidth	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(e)	Power spectral density	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d)	Spurious RF conducted emissions	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d)	Band edge	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.247(d) & §15.209 & §15.205	Spurious radiated emissions for transmitter	Site 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
§15.203	Antenna requirement	See note 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Note 1: N/A=Not Applicable.

Note 2: The EUT uses a PCB Antenna, which gain is -3dBi. In accordance to §15.203, it is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2A6GW-ST200 complies with Section 15.205, 15.209, 15.247 of the FCC Part 15, Subpart C.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed

- **Not** Performed

The Equipment under Test

- **Fulfills** the general approval requirements.

- **Does not** fulfill the general approval requirements.

Sample Received Date: August 5, 2021

Testing Start Date: August 5, 2021

Testing End Date: February 28, 2022

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch

Reviewed by:

John Zhi
Project Manager

Prepared by:

Mark Chen
Project Engineer

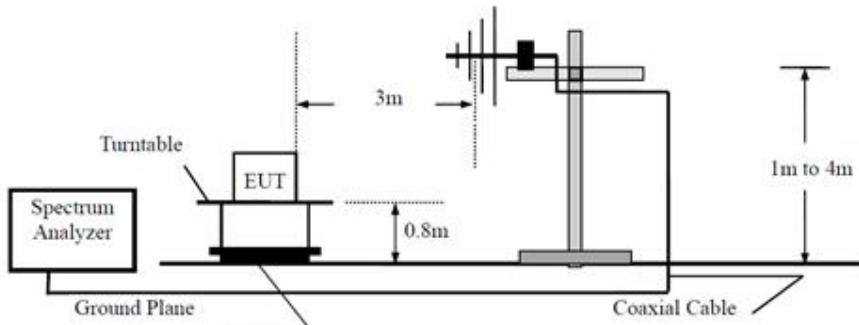


Tested by:

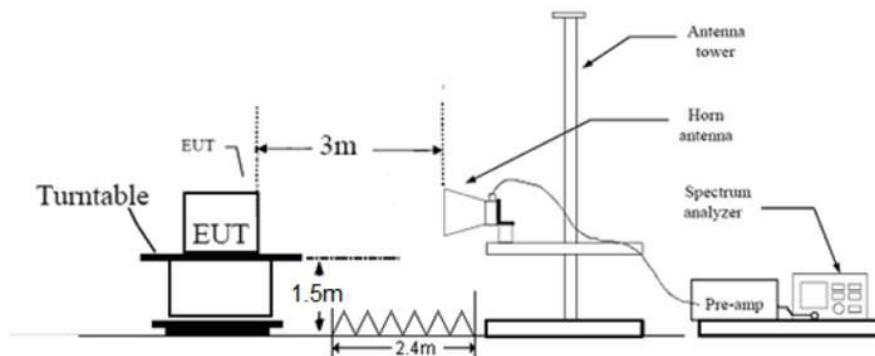
Carry Cai
Test Engineer

7 Test Setups

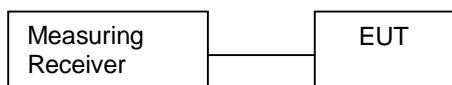
Below 1GHz



Above 1GHz



Conducted RF test setups



8 Systems test configuration

Auxiliary Equipment Used during Test:

DESCRIPTION	MANUFACTURER	MODEL NO.(SHIELD)	S/N(LENGTH)
Notebook	Lenovo	X220	---
---	---	---	---

The system was configured to channel 0, 19, and 39 for the test.

9 Technical Requirement

9.1 Conducted peak output power

Test Method

1. Use the following spectrum analyzer settings:
RBW > the 6dB bandwidth of the emission being measured, VBW \geq 3RBW, Span \geq 3RBW
Sweep = auto, Detector function = peak, Trace = max hold.
2. Add a correction factor to the display.
3. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. The indicated level is the peak output power.

Limits

According to §15.247 (b) (1), conducted peak output power limit as below:

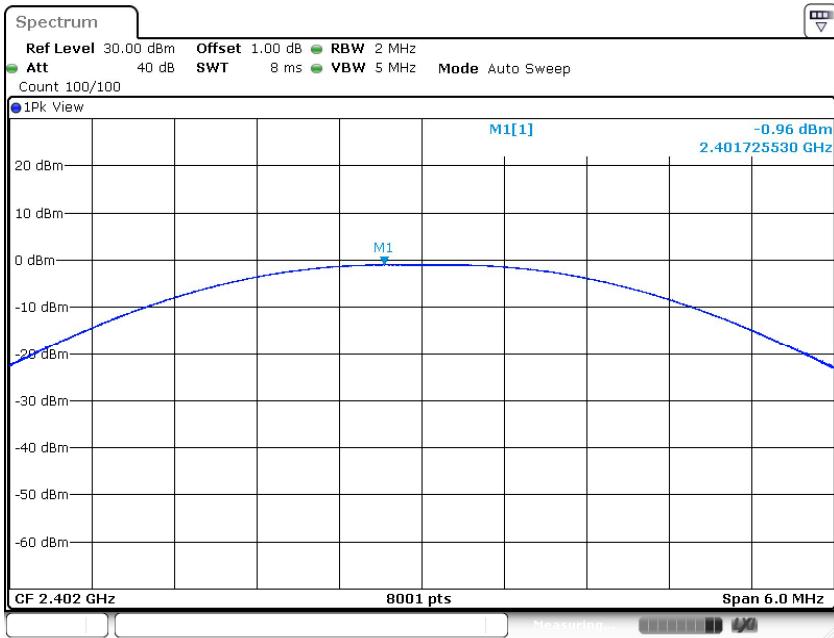
Frequency Range MHz	Limit W	Limit dBm
2400-2483.5	\leq 1	\leq 30

Test result as below table

Frequency MHz	Conducted Peak Output Power dBm	Result
Low channel 2402MHz	-0.96	Pass
Middle channel 2440MHz	-1.77	Pass
High channel 2480MHz	-2.65	Pass

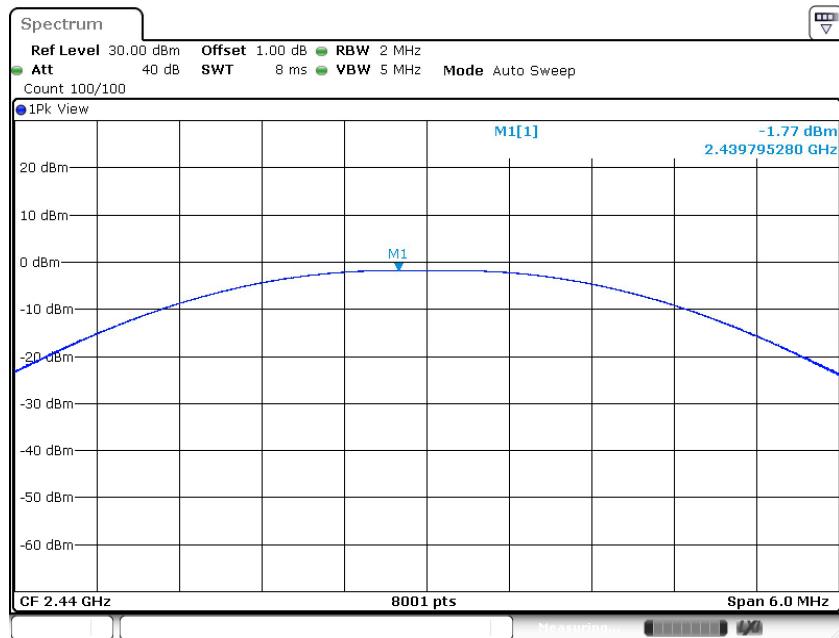


Low channel 2402MHz



Date: 5.AUG.2021 12:06:30

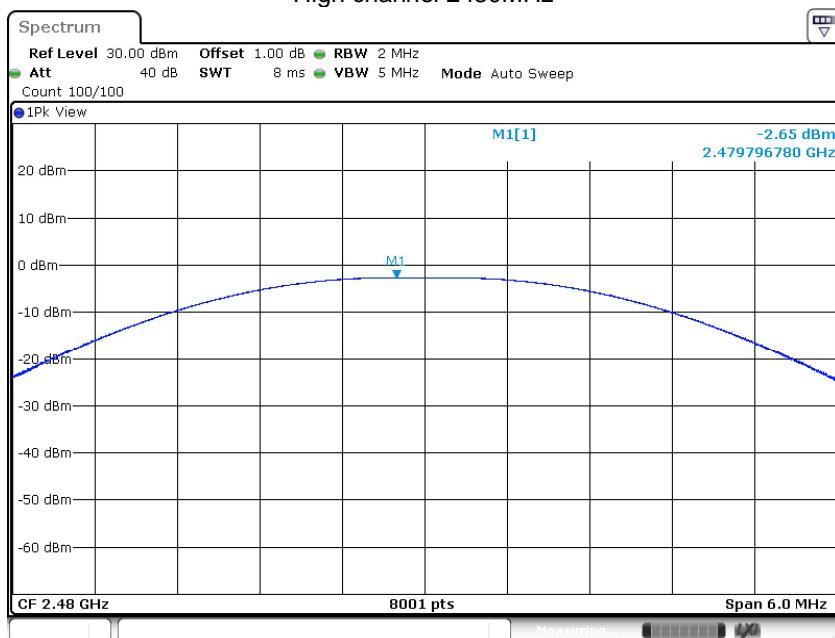
Middle channel 2440MHz



Date: 5.AUG.2021 11:46:22



High channel 2480MHz



Date: 5.AUG.2021 11:58:34

9.2 Power spectral density

Test Method

This procedure shall be used if maximum peak conducted output power was used to demonstrate compliance:

1. Set analyzer center frequency to DTS channel center frequency. RBW=3kHz, VBW \geq 3RBW, Span=1.5 times DTS bandwidth, Detector=Peak, Sweep=auto, Trace= max hold.
2. Allow trace to fully stabilize, use the peak marker function to determine the maximum amplitude level within the RBW.
3. Repeat above procedures until other frequencies measured were completed.

Limit

Limit [dBm]

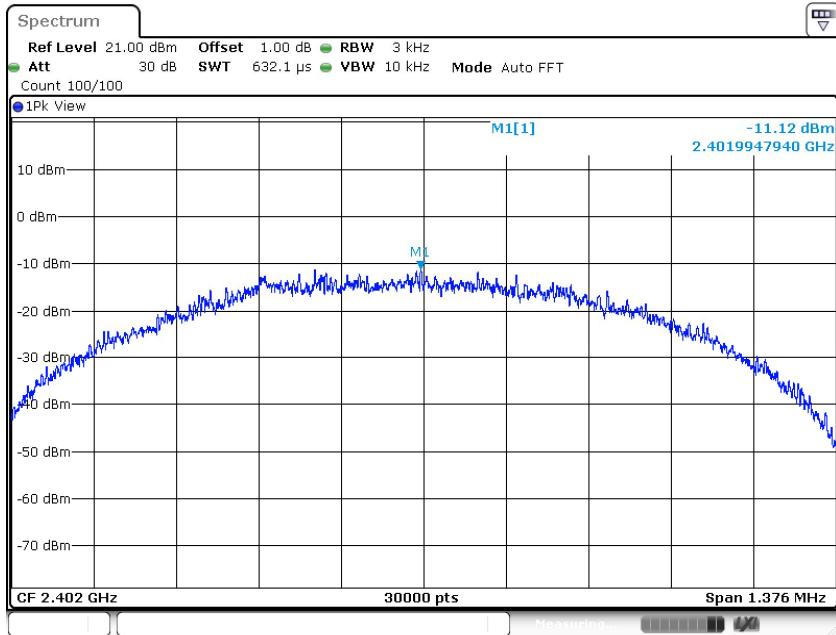
\leq 8dBm/3KHz

Test result

Frequency MHz	Power spectral density dBm/3KHz	Result
Top channel 2402MHz	-11.12	Pass
Middle channel 2440MHz	-11.63	Pass
Bottom channel 2480MHz	-12.54	Pass

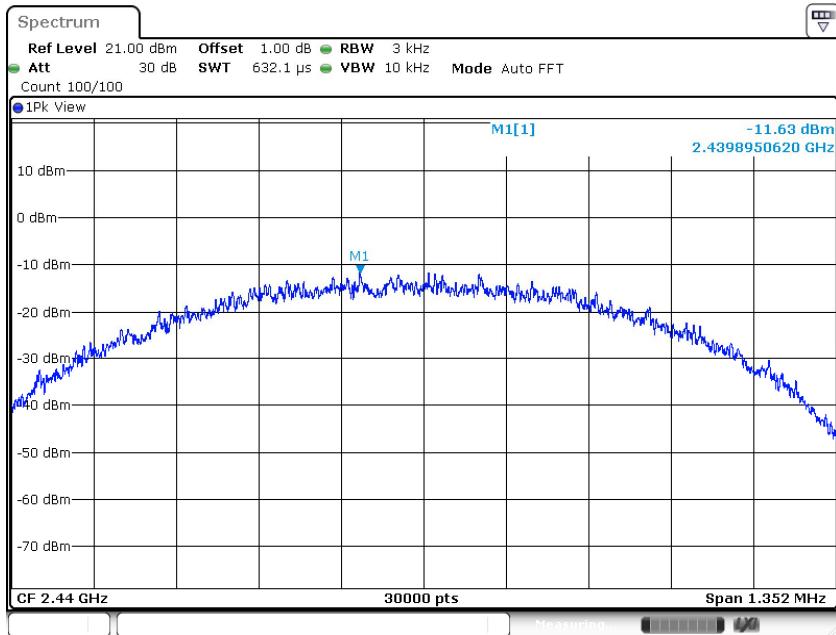


Low channel 2402MHz



Date: 5.AUG.2021 12:06:36

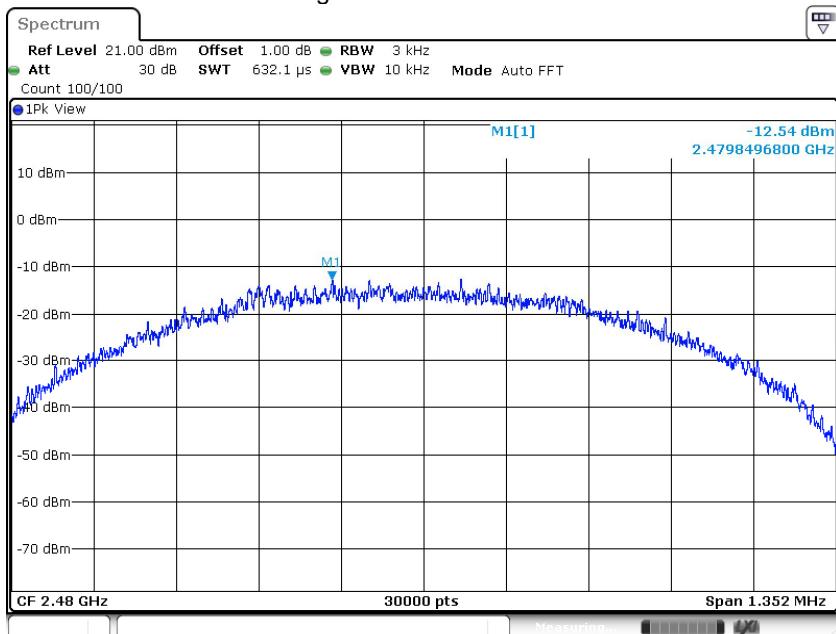
Middle channel 2440MHz



Date: 5.AUG.2021 11:46:28



High channel 2480MHz



Date: 5.AUG.2021 11:58:40

9.3 6 dB Bandwidth and 99% Occupied Bandwidth

Test Method

1. Use the following spectrum analyzer settings:
RBW=100K, VBW \geq 3RBW, Sweep = auto, Detector function = peak, Trace = max hold
2. Use the automatic bandwidth measurement capability of an instrument, may be employed using the X dB bandwidth mode with X set to 6 dB, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be \geq 6 dB.
3. Allow the trace to stabilize, record the X dB Bandwidth value.

Limit

Limit [kHz]

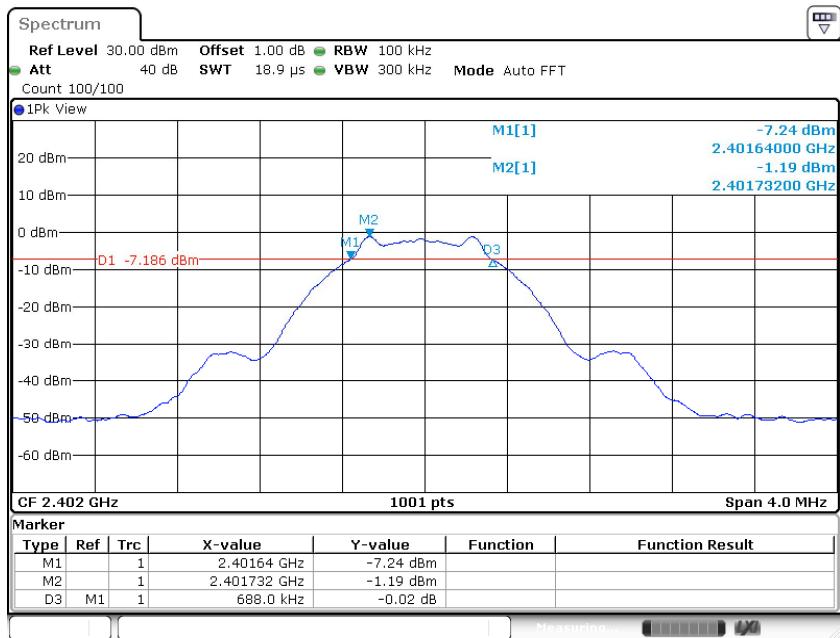
\geq 500

Test result

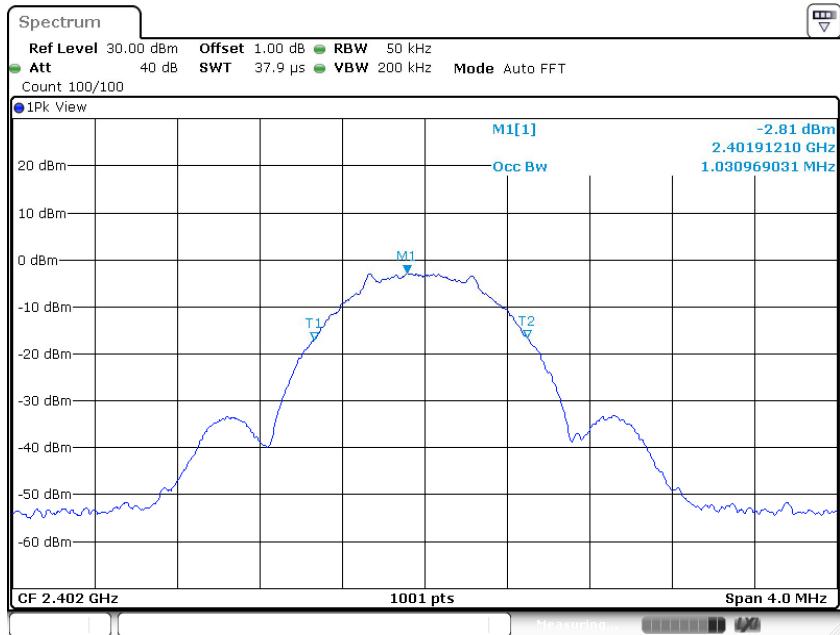
Frequency MHz	6dB bandwidth kHz	99 bandwidth kHz	Result
Bottom channel 2402MHz	688	1031	Pass
Middle channel 2440MHz	676	1015	Pass
Top channel 2480MHz	676	1019	Pass

6 dB Bandwidth

Low channel 2402MHz



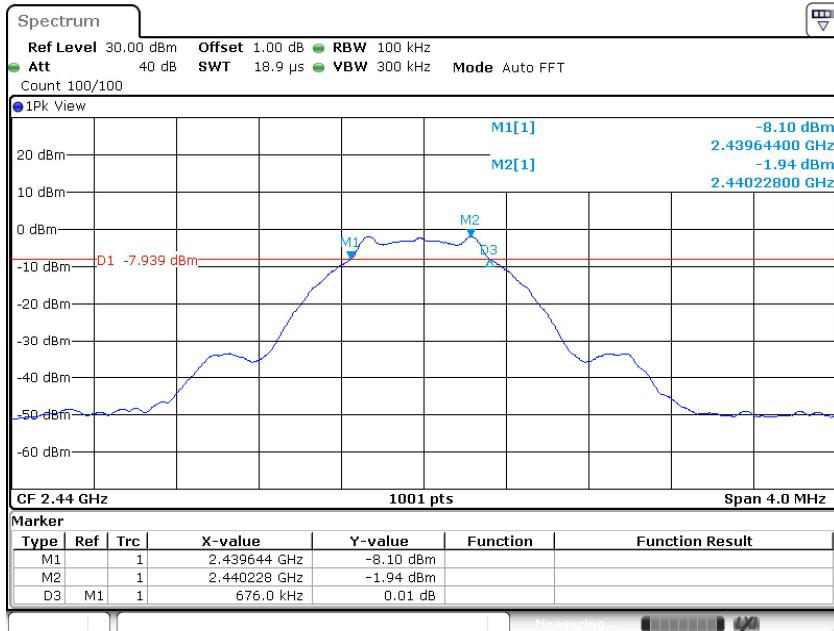
Date: 5.AUG.2021 12:06:13



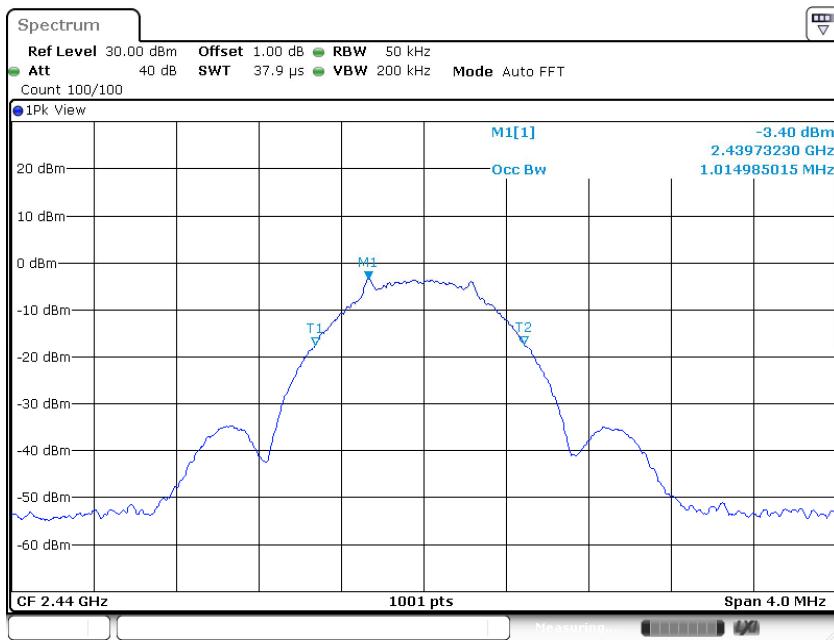
Date: 5.AUG.2021 12:06:24



Middle channel 2440MHz



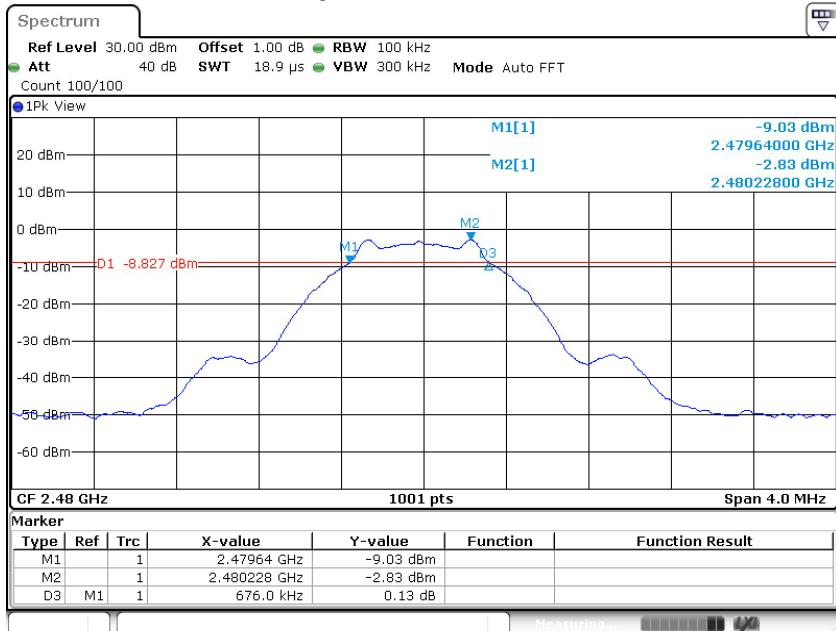
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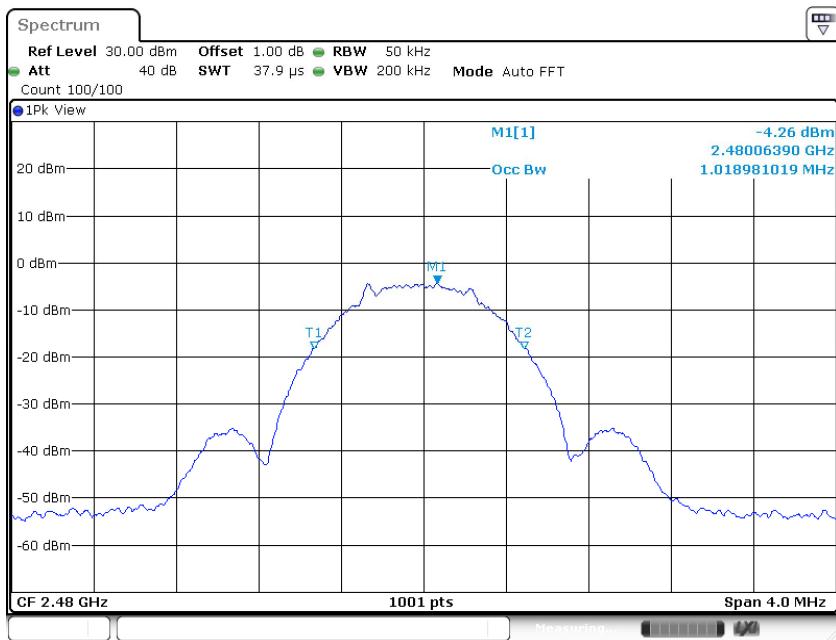
Date: 5.AUG.2021 11:46:15



High channel 2480MHz



Date: 5.AUG.2021 11:58:17



Date: 5.AUG.2021 11:58:28

9.4 Spurious RF conducted emissions

Test Method

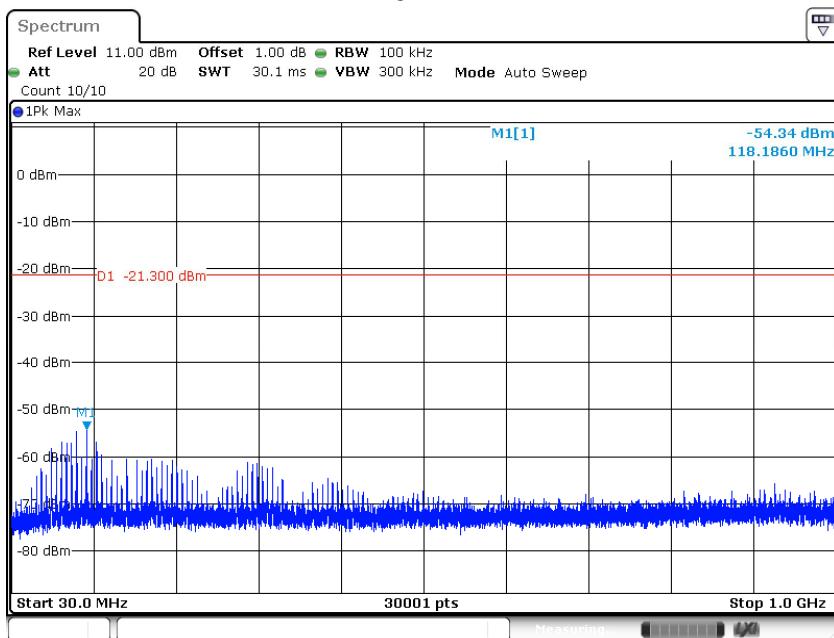
1. Establish a reference level by using the following procedure:
 - a. Set RBW=100 kHz. VBW \geq 3RBW. Detector =peak, Sweep time = auto couple, Trace mode = max hold.
 - b. Allow trace to fully stabilize, use the peak marker function to determine the maximum PSD level.
2. Use the maximum PSD level to establish the reference level.
 - a. Set the center frequency and span to encompass frequency range to be measured.
 - b. Use the peak marker function to determine the maximum amplitude level. Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements, report the three highest emissions relative to the limit.
3. Repeat above procedures until other frequencies measured were completed.

Limit

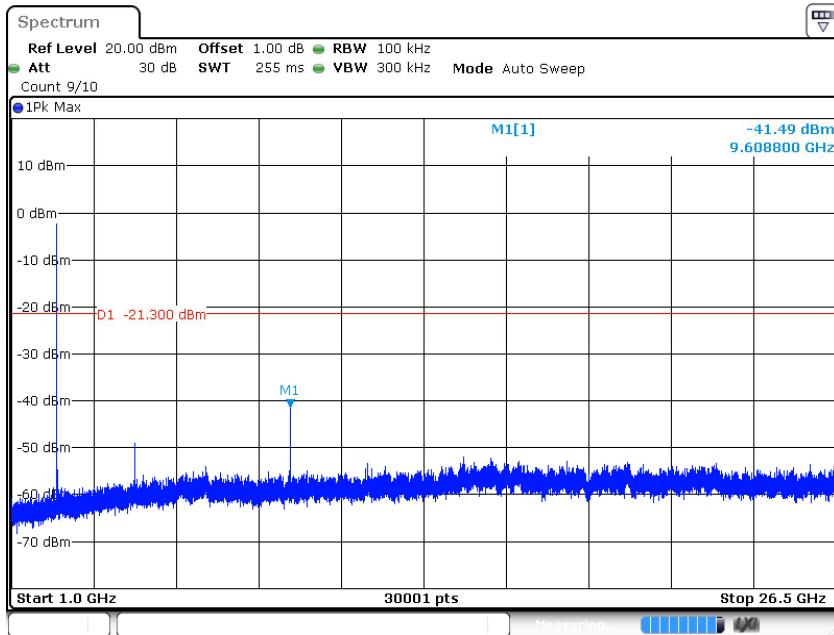
Frequency Range MHz	Limit (dBc)
30-25000	-20

Spurious RF conducted emissions

2402MHz



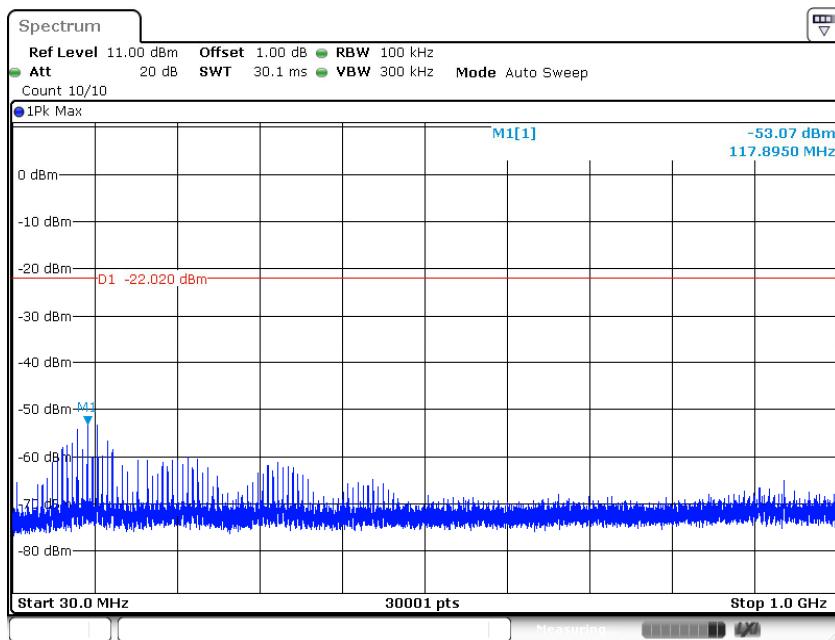
Date: 5.AUG.2021 12:06:57



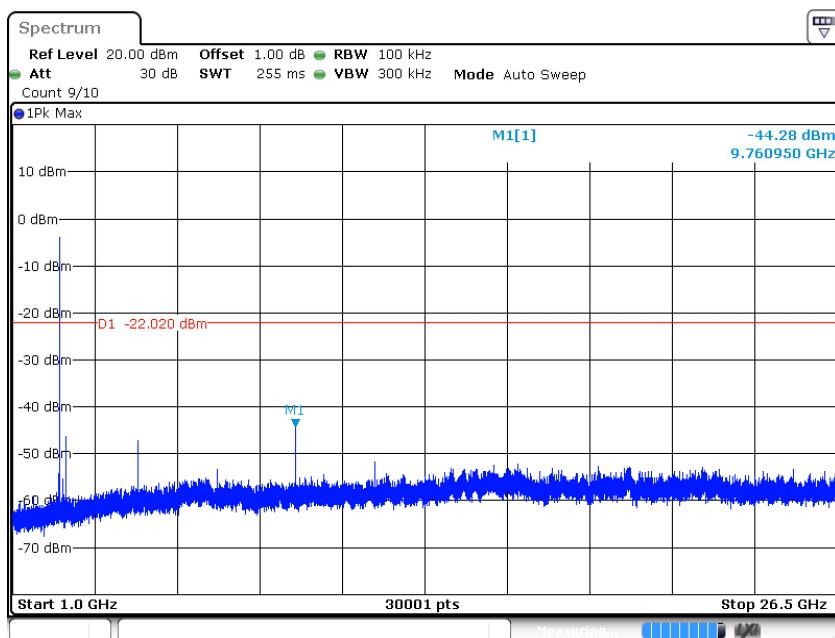
Date: 5.AUG.2021 12:07:05



2440MHz



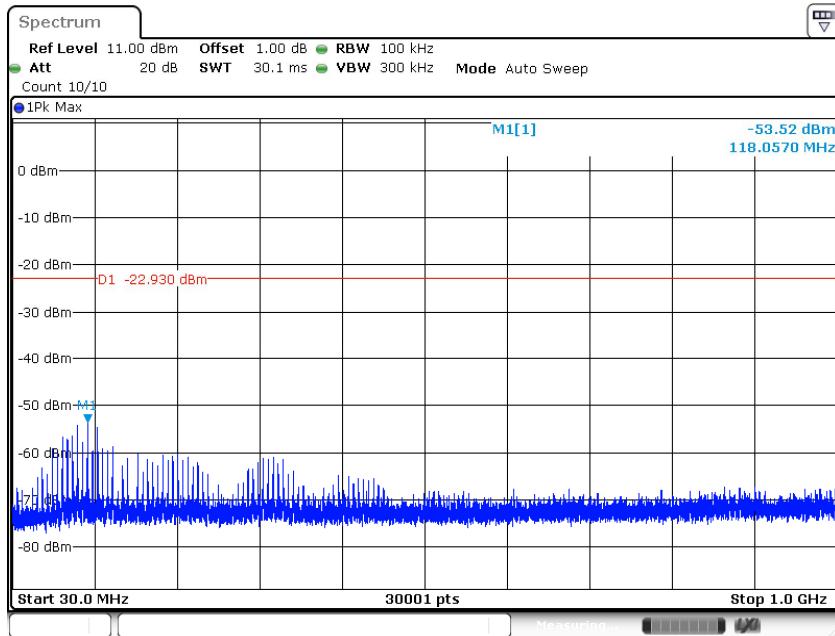
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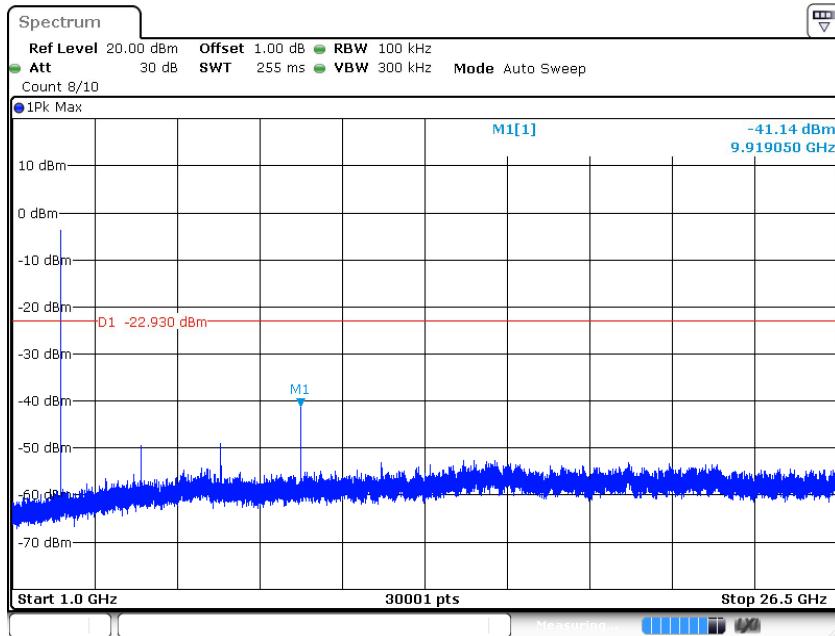
Date: 5 AUG 2021 11:46:48



2480MHz



Date: 5.AUG.2021 11:59:01



Date: 5.AUG.2021 11:59:09

9.5 Band edge

Test Method

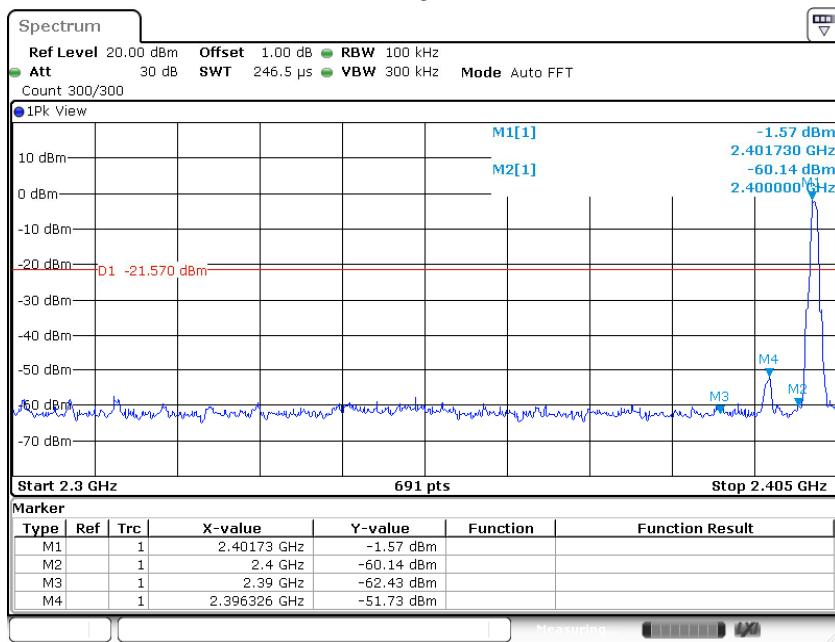
- 1 Use the following spectrum analyzer settings:
Span = wide enough to capture the peak level of the in-band emission and all spurious
RBW = 100 kHz, VBW \geq RBW, Sweep = auto, Detector function = peak, Trace = max hold.
- 2 Allow the trace to stabilize, use the peak and delta measurement to record the result.
- 3 The level displayed must comply with the limit specified in this Section.

Limit

Frequency Range MHz	Limit (dBc)
30-25000	-20

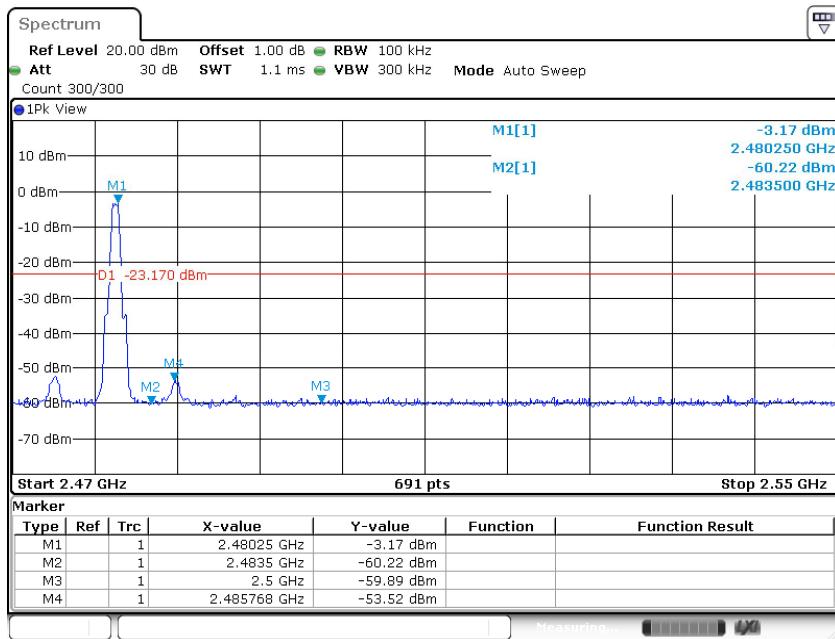
Band edge testing

2402MHz



Date: 5.AUG.2021 12:06:45

2480MHz



Date: 5.AUG.2021 11:58:49

9.6 Spurious radiated emissions for transmitter

Test Method

- 1: The EUT was place on a turn table which is 1.5m above ground plane for above 1GHz and 0.8m above ground for below 1GHz at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2: The EUT was set 3 meters away from the interference – receiving antenna, which was mounted on the top of a variable – height antenna tower.
- 3: The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4: For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5: Use the following spectrum analyzer settings According to C63.10:

For Below 1GHz

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 100 KHz to 120KHz, $VBW \geq RBW$ for peak measurement, Sweep = auto, Detector function = peak, Trace = max hold.

For Peak unwanted emissions Above 1GHz:

Span = wide enough to capture the peak level of the in-band emission and all spurious
 RBW = 1MHz, $VBW \geq RBW$ for peak measurement ,Sweep = auto, Detector function = peak, Trace = max hold.

Procedures for average unwanted emissions measurements above 1000 MHz

- a) RBW = 1 MHz.
- b) $VBW \geq [3 \times RBW]$.
- c) Detector = RMS (power averaging), if $[span / (\# of points in sweep)] \backslash RBW / 2$.
 Satisfying this condition can require increasing the number of points in the sweep or reducing the span. If the condition is not satisfied, then the detector mode shall be set to peak.
- d) Averaging type = power (i.e., rms) (As an alternative, the detector and averaging type may be set for linear voltage averaging. Some instruments require linear display mode to use linear voltage averaging. Log or dB averaging shall not be used.)
- e) Sweep time = auto.
- f) Perform a trace average of at least 100 traces if the transmission is continuous. If the transmission is not continuous, then the number of traces shall be increased by a factor of $1 / D$, where D is the duty cycle. For example, with 50% duty cycle, at least 200 traces shall be averaged. (If a specific emission is demonstrated to be continuous—i.e., 100% duty cycle—then rather than turning ON and OFF with the transmit cycle, at least 100 traces shall be averaged.)
- g) If tests are performed with the EUT transmitting at a duty cycle less than 98%, then a correction factor shall be added to the measurement results prior to comparing with the emission limit, to compute the emission level that would have been measured had the test been performed at 100% duty cycle. The correction factor is computed as follows:
 1) If power averaging (rms) mode was used in the preceding step e), then the correction factor is $[10 \log (1 / D)]$, where D is the duty cycle. For example, if the transmit duty

cycle was 50%, then 3 dB shall be added to the measured emission levels.

2) If linear voltage averaging mode was used in the preceding step e), then the correction factor is [20 log (1 / D)], where D is the duty cycle. For example, if the transmit duty cycle was 50%, then 6 dB shall be added to the measured emission levels.

3) If a specific emission is demonstrated to be continuous (100% duty cycle) rather than turning ON and OFF with the transmit cycle, then no duty cycle correction is required for that emission.

Limit

The radio emission outside the operating frequency band 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.

Radiated emissions which fall in the restricted bands, as defined in section 15.205, must comply with the radiated emission limits specified in section 15.209.

Frequency MHz	Field Strength uV/m	Field Strength dB μ V/m	Detector
30-88	100	40	QP
88-216	150	43.5	QP
216-960	200	46	QP
960-1000	500	54	QP
Above 1000	500	54	AV
Above 1000	5000	74	PK

Spurious radiated emissions for transmitter

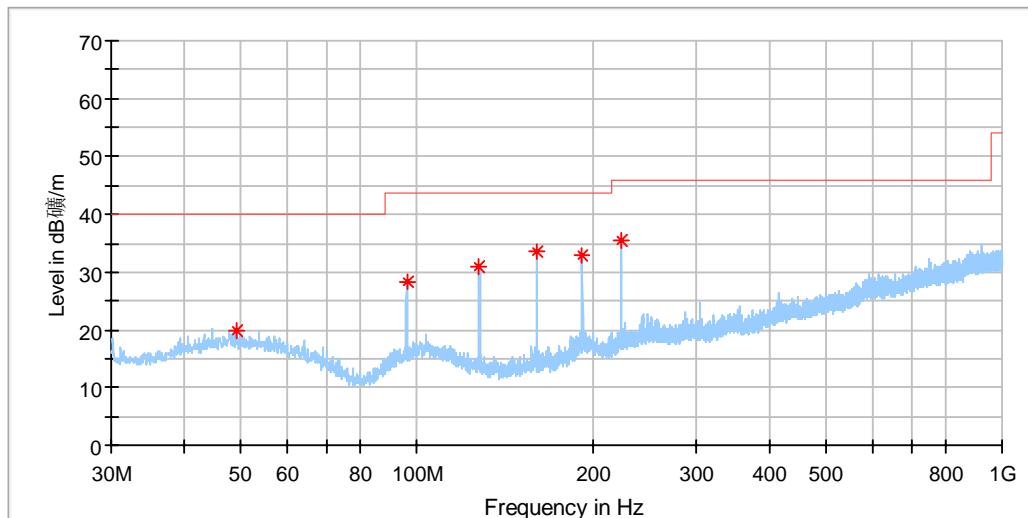
According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

Transmitting spurious emission test result as below:

EUT: Mini Stepper

M/N: ST200

Operating Condition: BLE (Tx 2402MHz, lowest Channel), Below 1GHz



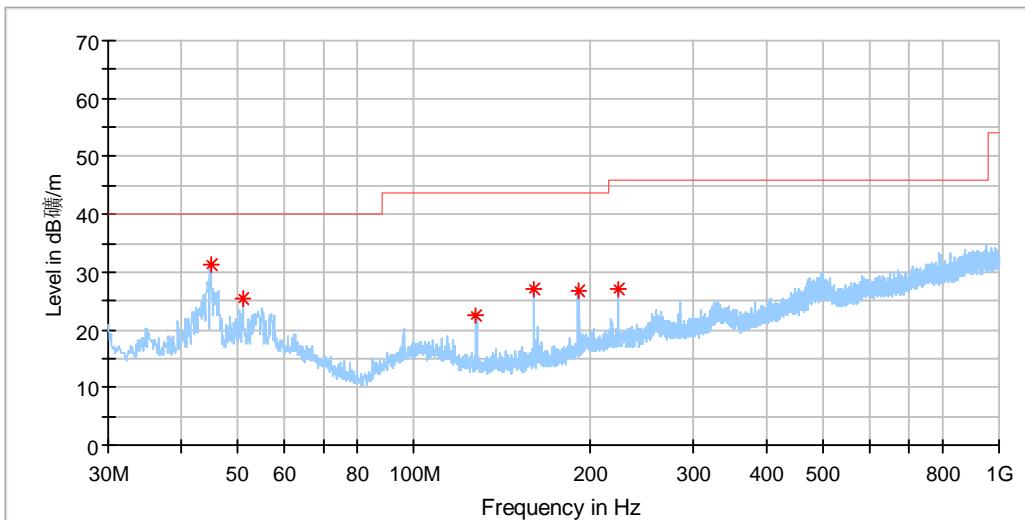
Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
49.157500	19.82	40.00	20.18	100.0	H	321.0	20.94
95.960000	28.18	43.50	15.32	200.0	H	314.0	18.39
127.970000	30.99	43.50	12.51	200.0	H	29.0	15.99
159.980000	33.39	43.50	10.11	200.0	H	29.0	16.18
191.990000	32.85	43.50	10.65	100.0	H	208.0	18.56
224.000000	35.61	46.00	10.39	100.0	H	195.0	19.53

EUT: Mini Stepper

M/N: ST200

Operating Condition: BLE (Tx 2402MHz, lowest Channel), Below 1GHz



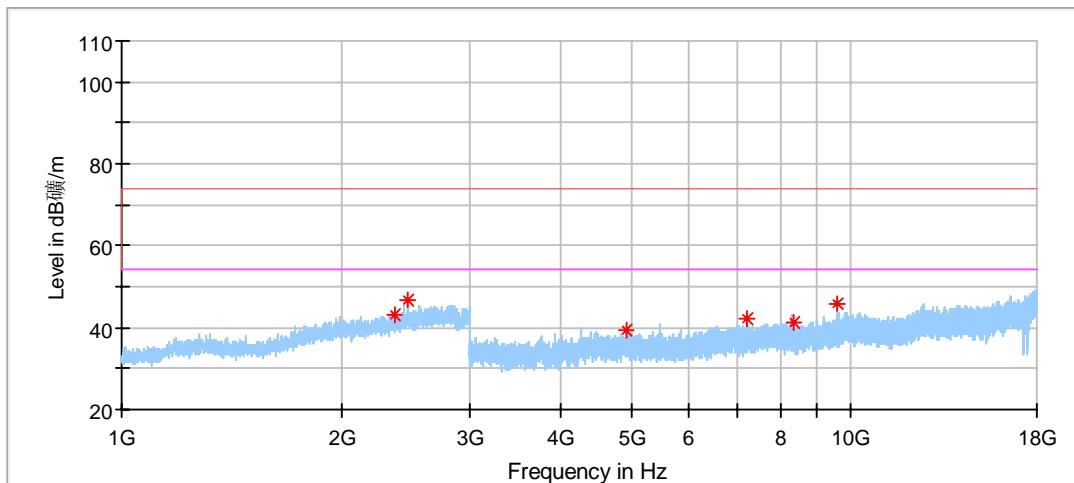
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
44.974375	31.20	40.00	8.80	200.0	V	286.0	20.71
51.036875	25.51	40.00	14.49	200.0	V	295.0	20.93
127.970000	22.43	43.50	21.07	200.0	V	203.0	15.99
159.980000	26.98	43.50	16.52	200.0	V	88.0	16.18
191.990000	26.83	43.50	16.67	200.0	V	78.0	18.56
224.000000	26.97	46.00	19.03	200.0	V	213.0	19.53

EUT: Mini Stepper

M/N: ST200

Operating Condition: BLE (Tx 2402MHz, lowest Channel), 1GHz-18GHz



Critical_Freqs

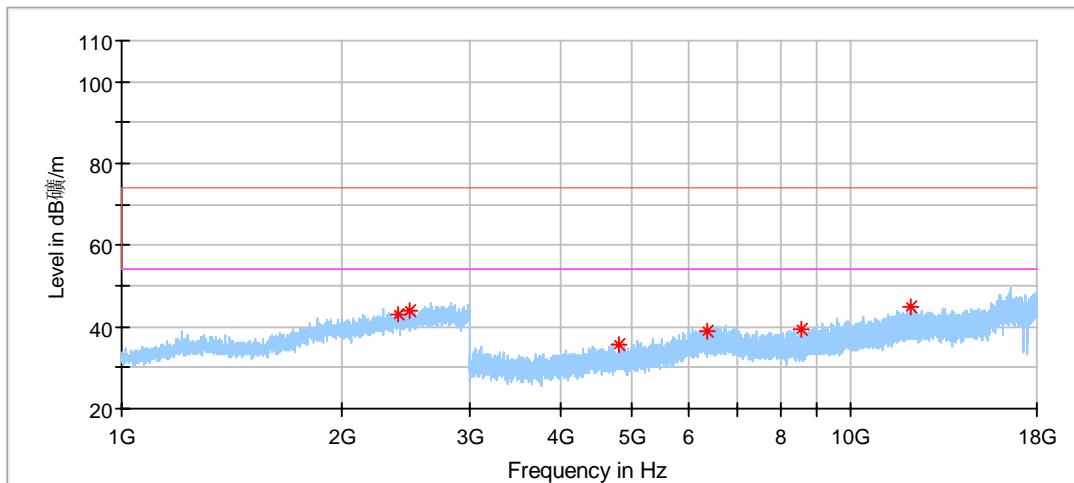
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2375.714286	43.09	74.00	30.91	150.0	H	19.0	-3.09
2474.285714	46.65	74.00	27.35	150.0	H	210.0	-2.76
7205.000000	42.36	74.00	31.64	150.0	H	214.0	7.33
8347.500000	41.27	74.00	32.73	150.0	H	127.0	8.35
9607.000000	45.74	74.00	28.26	150.0	H	270.0	9.75



EUT: Mini Stepper

M/N: ST200

Operating Condition: BLE (Tx 2402MHz, lowest Channel), 1GHz-18GHz



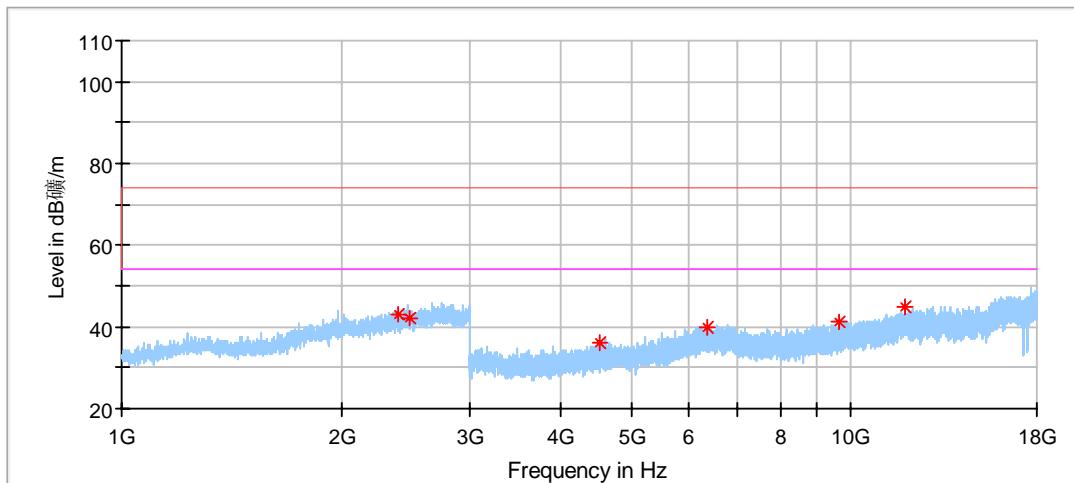
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.000000	43.20	74.00	30.80	150.0	V	180.0	-3.12
2483.809524	43.85	74.00	30.15	150.0	V	129.0	-2.76
6359.500000	38.83	74.00	35.17	150.0	V	4.0	6.64
8562.000000	39.19	74.00	34.81	150.0	V	156.0	8.67
12119.000000	44.75	74.00	29.25	150.0	V	270.0	11.93

EUT: Mini Stepper

M/N: ST200

Operating Condition: BLE (Tx 2440MHz, Middle Channel), 1GHz-18GHz



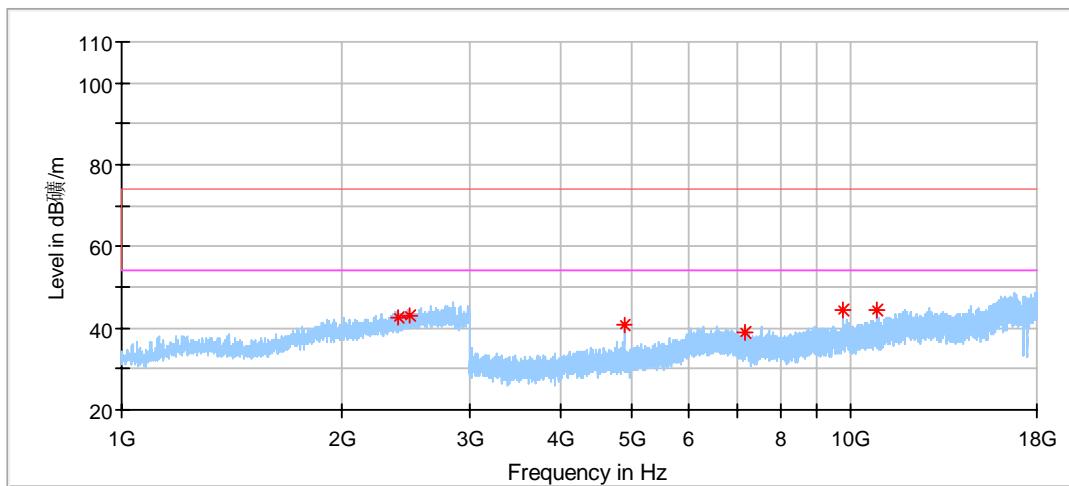
Critical_Freqs

Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2397.142857	43.20	74.00	30.80	150.0	H	238.0	-3.13
2482.857143	42.35	74.00	31.65	150.0	H	128.0	-2.76
4527.500000	36.04	74.00	37.96	150.0	H	0.0	2.77
6350.000000	39.93	74.00	34.07	150.0	H	0.0	6.72
11838.500000	44.87	74.00	29.13	150.0	H	323.0	11.48

EUT: Mini Stepper

M/N: ST200

Operating Condition: BLE (Tx 2440MHz, Middle Channel), 1GHz-18GHz



Critical_Freqs

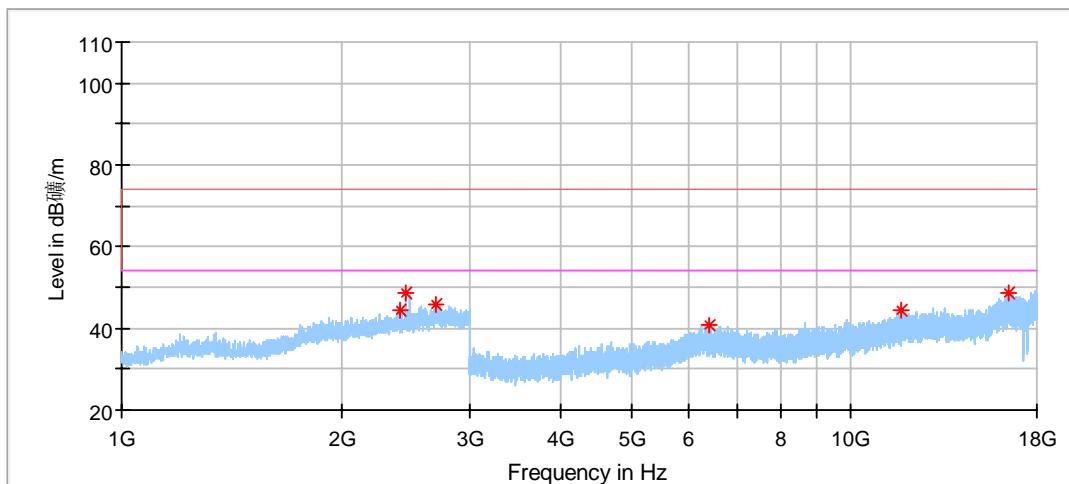
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2391.428571	42.53	74.00	31.47	150.0	V	25.0	-3.12
2481.428571	42.90	74.00	31.10	150.0	V	47.0	-2.76
4880.000000	40.58	74.00	33.42	150.0	V	268.0	3.69
9759.000000	44.56	74.00	29.44	150.0	V	356.0	10.07
10886.500000	44.36	74.00	29.64	150.0	V	238.0	10.82



EUT: Mini Stepper

M/N: ST200

Operating Condition: BLE (Tx 2480MHz, High Channel), 1GHz-18GHz



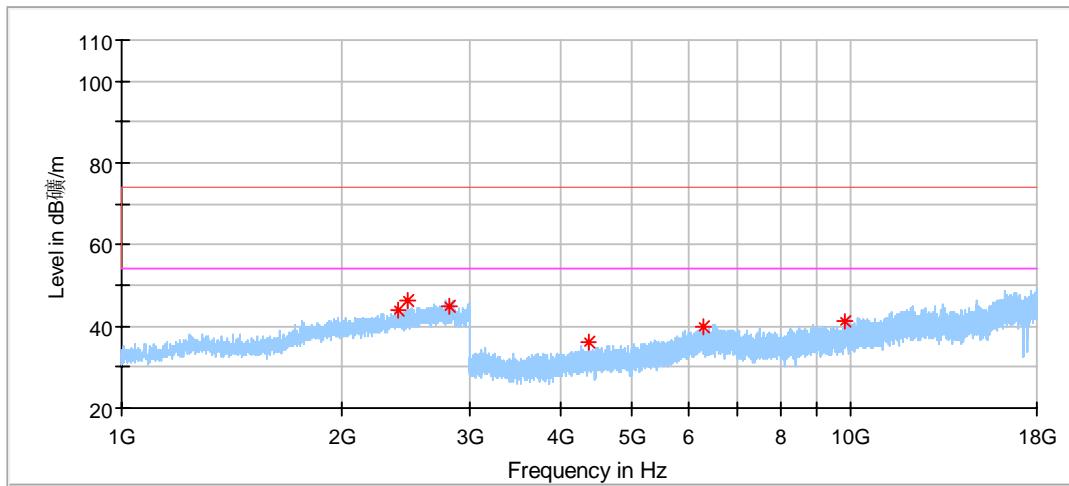
Critical_Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2407.142857	44.51	74.00	29.49	150.0	H	253.0	-3.13
2455.238095	48.40	74.00	25.60	150.0	H	253.0	-2.92
2480.476191	69.07	74.00	4.93	150.0	H	55.0	-2.76
2701.904762	45.70	74.00	28.30	150.0	H	0.0	-2.35
6387.000000	40.62	74.00	33.38	150.0	H	268.0	6.63
11717.000000	44.36	74.00	29.64	150.0	H	238.0	11.46

EUT: Mini Stepper

M/N: ST200

Operating Condition: BLE (Tx 2480MHz, High Channel), 1GHz-18GHz



Critical_Freqs

Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB/m)
2390.476191	43.94	74.00	30.06	150.0	V	202.0	-3.12
2471.428571	46.27	74.00	27.73	150.0	V	315.0	-2.78
2819.523810	44.86	74.00	29.14	150.0	V	194.0	-2.15
4361.500000	36.25	74.00	37.75	150.0	V	297.0	2.41
6274.000000	39.96	74.00	34.04	150.0	V	67.0	7.06
9812.500000	41.16	74.00	32.84	150.0	V	13.0	11.00

Remark:

- (1) Data of measurement within frequency range 18-26GHz are the noise floor or attenuated more than 20dB below the permissible limits or the field strength is too small to be measured, so test data does not present in this report.
- (2) Level=Reading Level + Correction Factor
 Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Amplifier Gain
 Below 1GHz: Corrector factor = Antenna Factor + Cable Loss
 (The Reading Level is recorded by software which is not shown in the sheet)

10 Test Equipment List

List of Test Instruments

Radiated Emission

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
EMI Test Receiver	Rohde & Schwarz	ESR 26	68-4-74-14-002	101269	1	2023-5-28
Trilog Super Broadband Test Antenna	Schwarzbeck	VULB 9162	68-4-80-19-003	284	1	2023-1-17
Wave Guide Antenna	ETS	3117	68-4-80-19-001	00218954	1	2023-5-9
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-001	100745	1	2023-5-28
Pre-amplifier	Rohde & Schwarz	SCU 18F	68-4-29-19-002	100746	1	2023-5-28
Sideband Horn Antenna	Q-PAR	QWH-SL-18-40-K-SG	68-4-80-14-008	12827	1	2022-7-21
Pre-amplifier	Rohde & Schwarz	SCU 40A	68-4-29-14-002	100432	1	2022-7-27
Attenuator	Mini-circuits	UNAT-6+	68-4-81-21-002	15542	1	2023-5-27
3m Semi-anechoic chamber	TDK	SAC-3 #2	68-4-90-19-006	----	2	2023-5-28
Test software	Rohde & Schwarz	EMC32	68-4-90-19-006-A01	Version10.35.02	N/A	N/A

RF Conducted

Description	Manufacturer	Model no.	Equipment ID	Serial no.	cal interval (year)	cal. due date
Signal Analyzer	Rohde & Schwarz	FSV40	68-4-74-14-004	101030	1	2023-5-27

11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

System Measurement Uncertainty	
Test Items	Extended Uncertainty
Uncertainty for Radiated Spurious Emission 25MHz-3000MHz	Horizontal: 4.35dB; Vertical: 4.44dB;
Uncertainty for Radiated Spurious Emission 3000MHz-18000MHz	Horizontal: 4.30dB; Vertical: 4.29dB;
Uncertainty for Radiated Spurious Emission 18000MHz-40000MHz	Horizontal: 4.51dB; Vertical: 4.50dB;
Uncertainty for Conducted RF test with TS 8997	RF Power Conducted: 1.31dB Frequency test involved: 0.6×10 ⁻⁷ or 1%