

TEST REPORT

Application No.: SZCR2512005761ET
Applicant: Mattel Asia Pacific Sourcing Ltd.
Address of Applicant: 11/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui, Kowloon, 852 Hong Kong
Manufacturer: Mattel Asia Pacific Sourcing Ltd.
Address of Manufacturer: 11/F., South Tower, World Finance Centre, Harbour City, Tsimshatsui, Kowloon, HongKong
Equipment Under Test (EUT):
EUT Name: FLYING RC
Model No.: JKV53
Trade Mark: Mattel
FCC ID: PIYJKV53-25A5T
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2025-12-29
Date of Test: 2025-12-30 to 2026-01-13
Date of Issue: 2026-01-15

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.

Kenx. Xu

Kenx Xu
EMC Laboratory Manager



SGS-CSTC Standards Technical Services Co., Ltd.
Shenzhen Branch EMC Laboratory

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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200576102

Page: 2 of 32

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2026-01-15		Original

Authorized for issue by:				
		Gebin Sun		
		Gebin Sun/Project Engineer		
		Eric Fu		
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.249	N/A	47 CFR Part 15, Subpart C 15.203	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Field Strength of the Fundamental Signal (15.249(a))	47 CFR Part 15, Subpart C 15.249	ANSI C63.10 (2020) Section 6.5&6.6	47 CFR Part 15, Subpart C 15.249(a)	Pass
Restricted Band Around Fundamental Frequency		ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209	Pass
Radiated Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4&6.5	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
Radiated Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)	Pass
20dB Bandwidth		ANSI C63.10 (2020) Section 6.9	47 CFR Part 15, Subpart C 15.215	Pass



3 Contents

	Page
1 Cover Page	1
2 Test Summary.....	3
3 Contents	4
4 General Information.....	6
4.1 Details of E.U.T.....	6
4.2 Description of Support Units.....	6
4.3 Measurement Uncertainty	7
4.4 Test Location	8
4.5 Test Facility.....	8
4.6 Deviation from Standards.....	8
4.7 Abnormalities from Standard Conditions.....	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement.....	11
6.1 Antenna Requirement	11
6.1.1 Test Requirement:	11
6.1.2 Conclusion	11
7 Radio Spectrum Matter Test Results.....	12
7.1 Field Strength of the Fundamental Signal (15.249(a))	12
7.1.1 E.U.T. Operation	13
7.1.2 Test Mode Description	13
7.1.3 Test Setup Diagram	14
7.1.4 Measurement Procedure and Data.....	14
7.2 Restricted Band Around Fundamental Frequency.....	17
7.2.1 E.U.T. Operation	17
7.2.2 Test Mode Description	17
7.2.3 Test Setup Diagram	18
7.2.4 Measurement Procedure and Data.....	18
7.3 Radiated Emissions Below 1GHz	20
7.3.1 E.U.T. Operation	20
7.3.2 Test Mode Description	20
7.3.3 Test Setup Diagram	21
7.3.4 Measurement Procedure and Data.....	21
7.4 Radiated Emissions Above 1GHz.....	24
7.4.1 E.U.T. Operation	24
7.4.2 Test Mode Description	24
7.4.3 Test Setup Diagram	24
7.4.4 Measurement Procedure and Data.....	25
7.5 20dB Bandwidth	28
7.5.1 E.U.T. Operation	28



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200576102

Page: 5 of 32

7.5.2	Test Mode Description	28
7.5.3	Test Setup Diagram	28
7.5.4	Measurement Procedure and Data.....	28
8	Test Setup Photo	32
9	EUT Constructional Details (EUT Photos).....	32



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4 General Information

4.1 Details of E.U.T.

Power supply:	3V DC(1.5V x 2 "AAA" Size Batteries)
Cable Loss (for RF conducted test):	0.7dB
Operation Frequency:	2424MHz to 2453MHz
Modulation Type:	GFSK
Number of Channels:	25
Antenna Type:	Wire Antenna
Antenna Gain:	-7.99dBi

Channel List:

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2424	10	2438	19	2447
2	2430	11	2439	20	2448
3	2431	12	2440	21	2449
4	2432	13	2441	22	2450
5	2433	14	2442	23	2451
6	2434	15	2443	24	2452
7	2435	16	2444	25	2453
8	2436	17	2445		
9	2437	18	2446		

Remark: The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Field Strength of the Fundamental Signal (15.249(a))	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Restricted Band Around Fundamental Frequency	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1GHz-18GHz); $\pm 4.8\text{dB}$ (18MHz-40GHz)
20dB Bandwidth	$\pm 0.3\%$
Remark: The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit; – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.	



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Report No.: SZCR251200576102

Page: 8 of 32

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

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No tests were sub-contracted.

4.5 Test Facility

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

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

Field Strength of the Fundamental Signal (15.249(a))					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

Restricted Band Around Fundamental Frequency					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2025-07-22	2027-07-21
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2025-03-21	2026-03-20

Radiated Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2025-11-17	2027-11-16
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04



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Report No.: SZCR251200576102

Page: 10 of 32

Radiated Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2025-05-07	2028-05-06
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2025-03-04	2026-03-03
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2025-07-22	2026-07-21
Microwave system amplifier	Agilent	83017A	SEM005-25	2025-09-10	2026-09-09
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2025-07-05	2026-07-04

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02
Programmable Temperature & Humidity Chamber	Votsch Industrietechnik GmbH	VT 4002	SEM002-15	2025-02-26	2026-02-25

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard Requirement:

Measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is -7.99dBi.

Antenna location: Refer to internal photos.



7 Radio Spectrum Matter Test Results

7.1 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
 Test Method: ANSI C63.10 (2020) Section 6.5&6.6
 Measurement Distance: 3m
 Test Engineer: Logic Wang

Limit:

Fundamental frequency(MHz)	Field strength of fundamental(millivolts/meter)	Field strength of harmonics(microvolts/meter)
902-928	50	500
2400-2483.5	50	500
5725-5875	50	500
24000-24250	250	2500

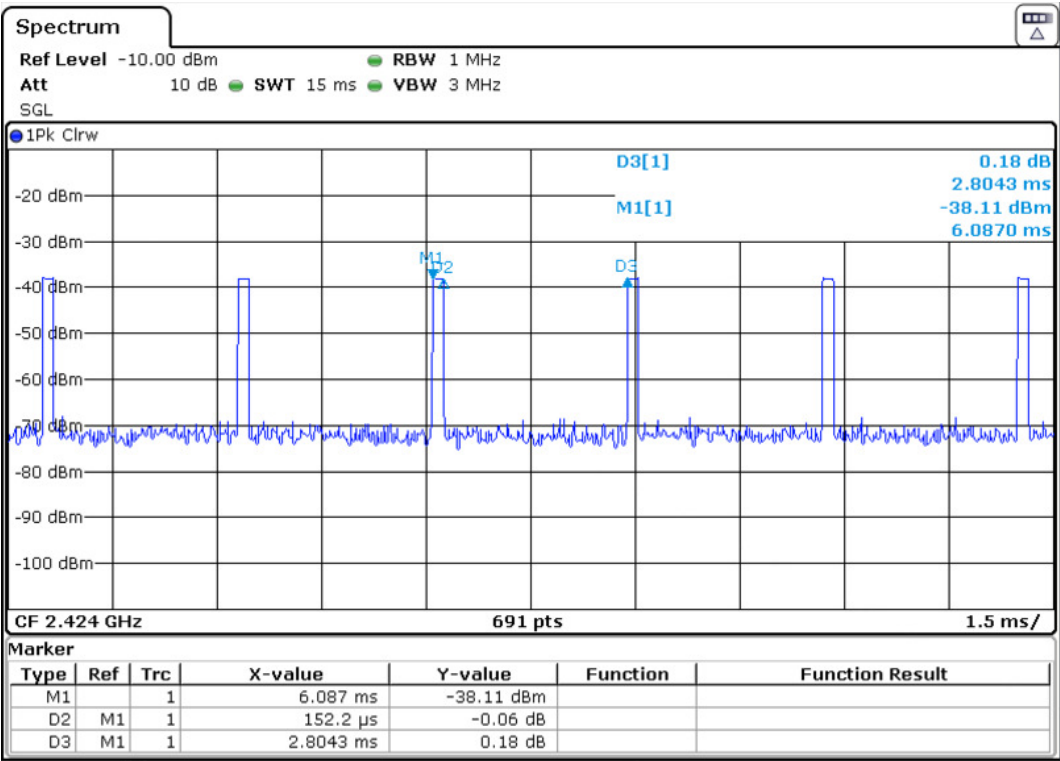
Remark: The frequencies above 1000MHz are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

For fundamental frequency in "902-928MHz", the field strength of fundamental is based on Quasi-Peak.

Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =0.1522ms
	T period =2.8043ms
	Duty cycle=5.43%
	PDCF value= -25.31dB





7.1.1 E.U.T. Operation

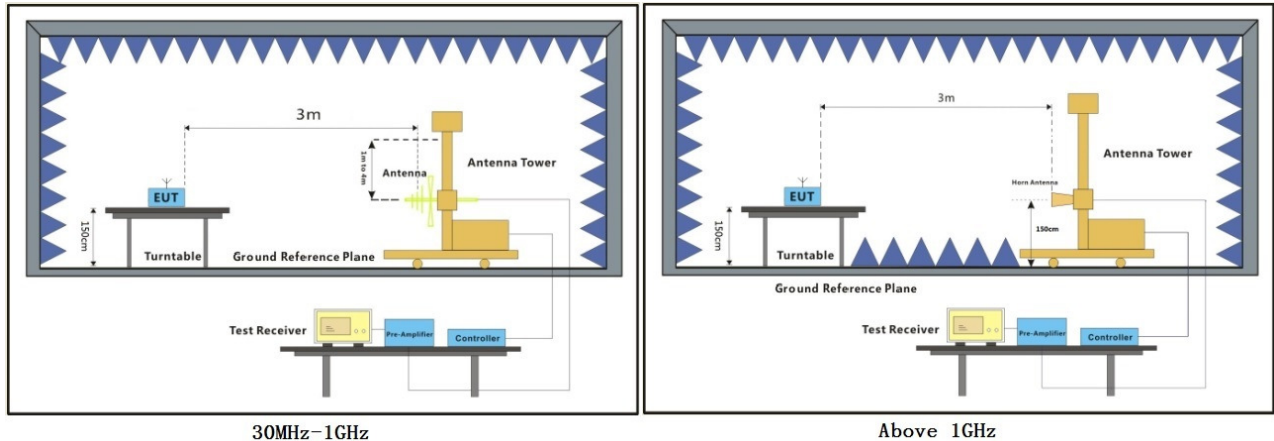
Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.1.3 Test Setup Diagram

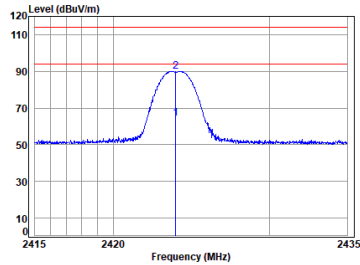


7.1.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

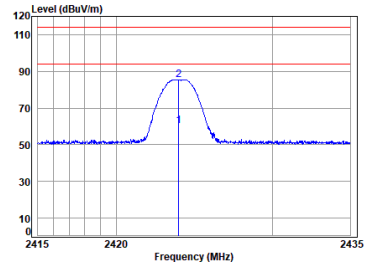
Remote 2.4G SRD_TX_CH_L_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05761ET\05759ET
Mode : 2424 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2424.000	16.19	29.00	32.76	52.13	64.56	94.00	-29.44	Average
2 p 2424.000	16.19	29.00	32.76	77.44	89.87	114.00	-24.13	Peak

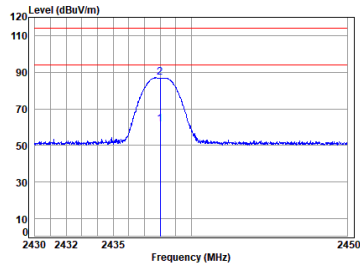
Remote 2.4G SRD_TX_CH_L_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05761ET\05759ET
Mode : 2424 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2424.000	16.19	29.00	32.76	47.74	60.17	94.00	-33.83	Average
2 p 2424.000	16.19	29.00	32.76	73.05	85.48	114.00	-28.52	Peak

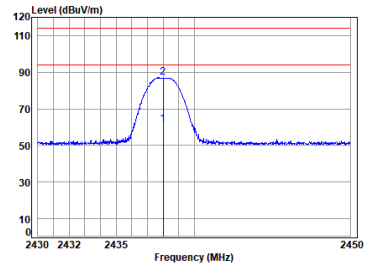
Remote 2.4G SRD_TX_CH_M_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05761ET\05759ET
Mode : 2438 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2438.000	16.21	28.95	32.76	49.25	61.65	94.00	-32.35	Average
2 p 2438.000	16.21	28.95	32.76	74.56	86.96	114.00	-27.04	Peak

Remote 2.4G SRD_TX_CH_M_Vertical

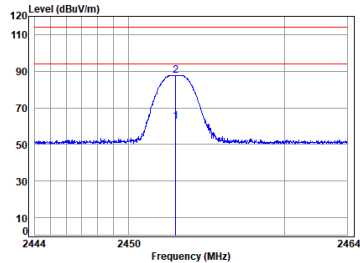


Site : chamber
Condition: 3m VERTICAL
Job No : 05761ET\05759ET
Mode : 2438 Field strength

Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q 2438.000	16.21	28.95	32.76	49.22	61.62	94.00	-32.38	Average
2 p 2438.000	16.21	28.95	32.76	74.53	86.93	114.00	-27.07	Peak



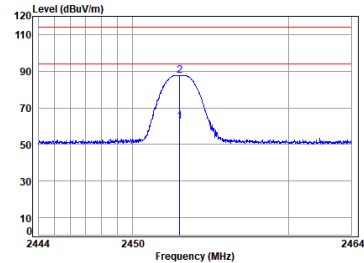
Remote 2.4G SRD_TX_CH_H_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05761ET\05759ET
Mode : 2453 Field strength

Read Level	Limit Line	Over Limit Remark
1 q 2453.000 16.23 28.90 32.75 49.99 62.37 94.00 -31.63 Average		
2 p 2453.000 16.23 28.90 32.75 75.30 87.68 114.00 -26.32 Peak		

Remote 2.4G SRD_TX_CH_H_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05761ET\05759ET
Mode : 2453 Field strength

Read Level	Limit Line	Over Limit Remark
1 q 2453.000 16.23 28.90 32.75 49.97 62.35 94.00 -31.65 Average		
2 p 2453.000 16.23 28.90 32.75 75.28 87.66 114.00 -26.34 Peak		



7.2 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.10.5
 Measurement Distance: 3m
 Test Engineer: Logic Wang

Limit:

Frequency	Limit (dBuV/m @3m)	Remark
30MHz-88MHz	40.0	Quasi-peak Value
88MHz-216MHz	43.5	Quasi-peak Value
216MHz-960MHz	46.0	Quasi-peak Value
960MHz-1GHz	54.0	Quasi-peak Value
Above 1GHz	54.0	Average Value
Above 1GHz	74.0	Peak Value

Emission 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 Section 15.209, whichever is the lesser attenuation.

7.2.1 E.U.T. Operation

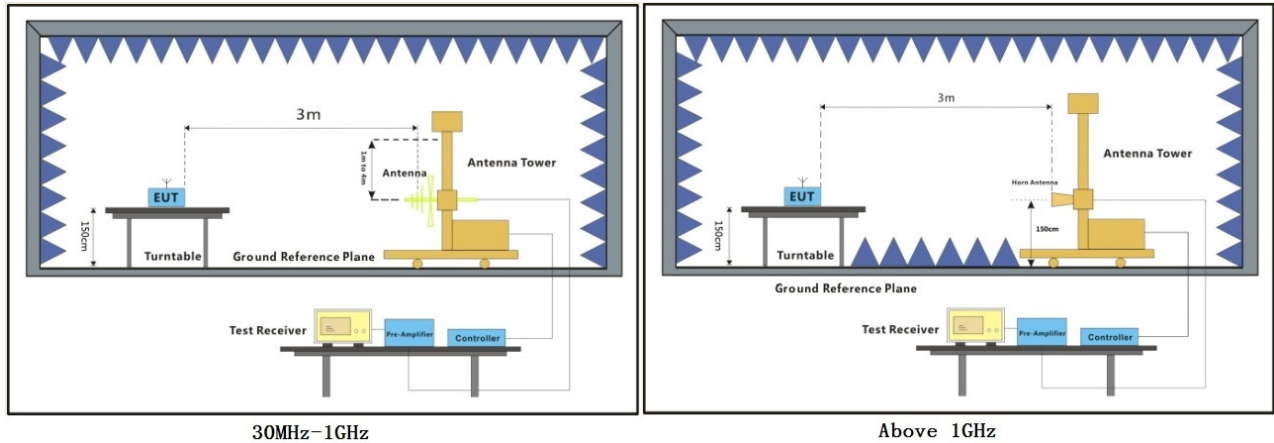
Operating Environment:
 Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.



7.2.3 Test Setup Diagram

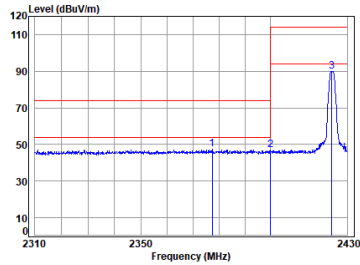


7.2.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

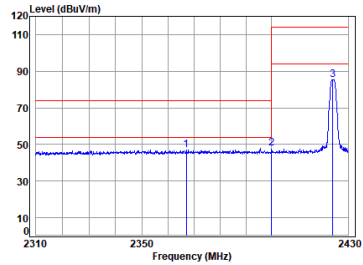
Remote 2.4G SRD_TX_CH_L_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05761ET\05759ET
Mode : 2424 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2377.414	16.12	29.10	32.79	35.09	47.52	74.00	-26.48	Peak
2	2400.000	16.15	29.10	32.78	34.67	47.14	74.00	-26.86	Peak
3 p	2424.000	16.19	29.00	32.76	77.44	89.87	114.00	-24.13	Peak

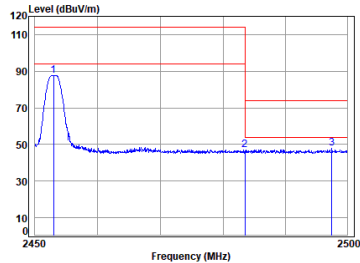
Remote 2.4G SRD_TX_CH_L_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05761ET\05759ET
Mode : 2424 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2367.082	16.10	29.10	32.79	34.70	47.11	74.00	-26.89	Peak
2 p	2400.000	16.14	29.10	32.78	35.28	47.74	74.00	-26.26	Peak
3	2424.000	16.19	29.00	32.76	73.05	85.48	114.00	-28.52	Peak

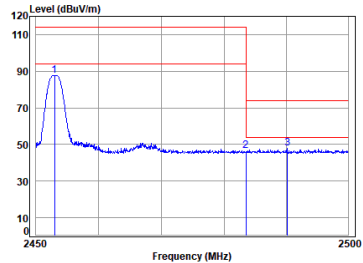
Remote 2.4G SRD_TX_CH_H_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05761ET\05759ET
Mode : 2453 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2453.000	16.23	28.90	32.75	75.30	87.68	114.00	-26.32	Peak
2	2483.500	16.28	28.90	32.73	34.32	46.77	74.00	-27.23	Peak
3 p	2497.499	16.30	28.90	32.73	35.54	48.01	74.00	-25.99	Peak

Remote 2.4G SRD_TX_CH_H_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05761ET\05759ET
Mode : 2453 Band edge

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2453.000	16.23	28.90	32.75	75.28	87.66	114.00	-26.34	Peak
2	2483.500	16.28	28.90	32.73	33.90	46.35	74.00	-27.65	Peak
3 p	2490.176	16.29	28.90	32.73	35.31	47.77	74.00	-26.23	Peak



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SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200576102

Page: 20 of 32

7.3 Radiated Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.4&6.5
 Measurement Distance: 3m
 Test Engineer: Mason Wu

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
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
960-1000	500	3

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 23.3 °C Humidity: 45.6 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

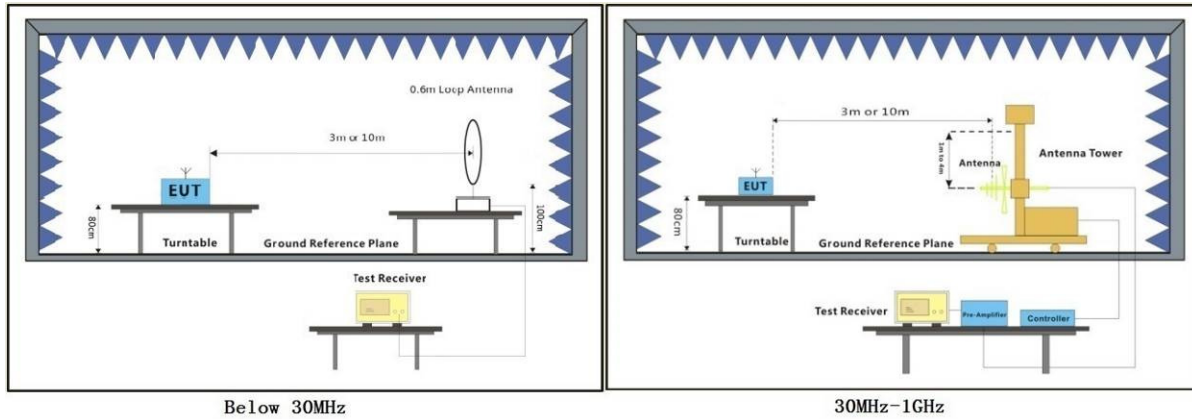


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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- Repeat above procedures until all frequencies measured was complete.

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

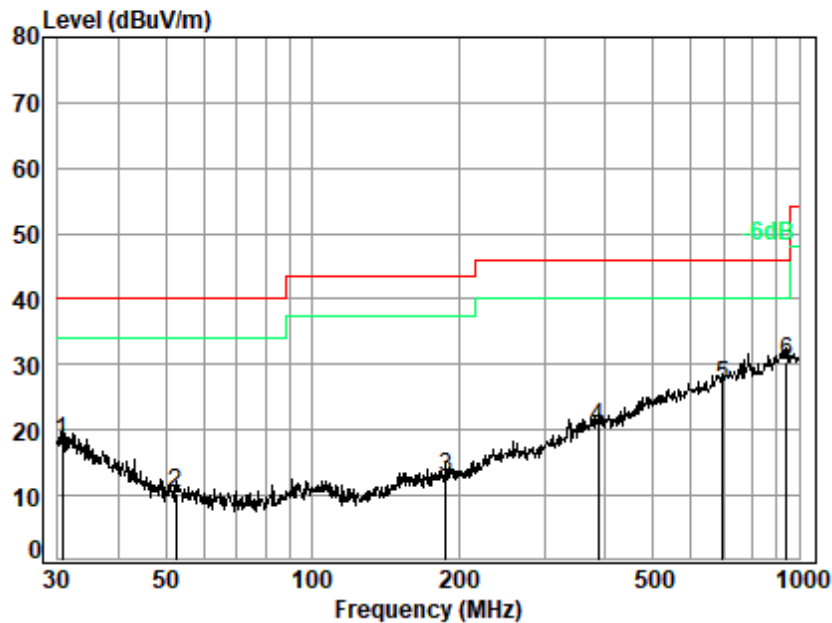
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/2

Report No.: SZCR251200576102

Page: 22 of 32

Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 05759ET/05761ET
Test Mode: 00

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.638	20.90	0.75	27.65	24.33	18.33	40.00	-21.67 QP
2	52.391	12.39	0.91	27.63	24.53	10.20	40.00	-29.80 QP
3	187.753	14.30	1.66	27.78	24.57	12.75	43.50	-30.75 QP
4	386.634	20.85	2.45	27.72	24.78	20.36	46.00	-25.64 QP
5	696.857	25.88	3.40	27.84	25.18	26.62	46.00	-19.38 QP
6 q	942.131	28.19	4.06	26.72	24.96	30.49	46.00	-15.51 QP



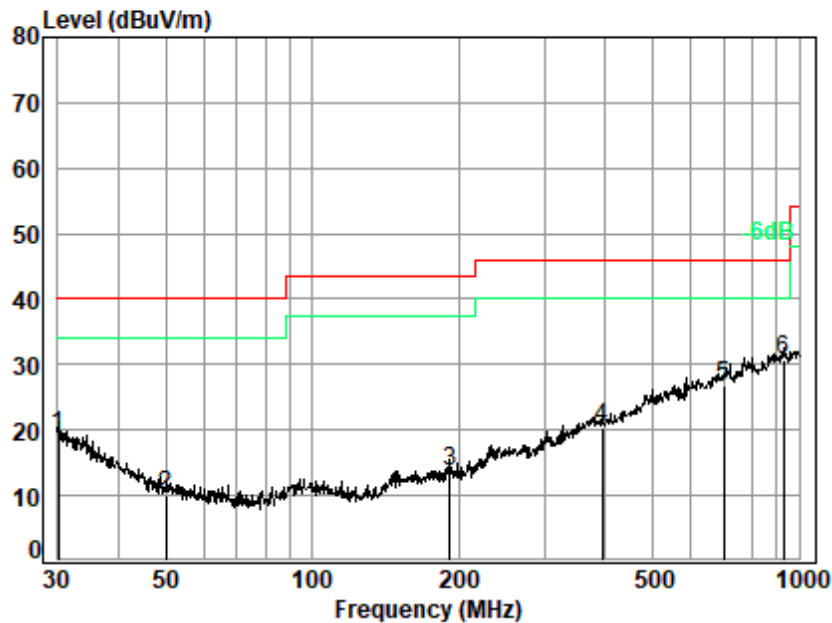
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Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 05759ET/05761ET
Test Mode: 00

		Ant	Cable	Preamp	Read	Limit	Over	
	Freq	Factor	Loss	Factor	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.105	21.15	0.74	27.65	25.06	19.30	40.00	-20.70 QP
2	50.057	12.75	0.90	27.63	24.01	10.03	40.00	-29.97 QP
3	191.745	14.26	1.67	27.79	25.45	13.59	43.50	-29.91 QP
4	393.472	20.72	2.47	27.73	24.81	20.27	46.00	-25.73 QP
5	699.305	25.93	3.41	27.83	25.20	26.71	46.00	-19.29 QP
6 q	929.008	28.16	4.04	26.80	25.22	30.62	46.00	-15.38 QP



7.4 Radiated Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d)
 Test Method: ANSI C63.10 (2020) Section 6.6
 Measurement Distance: 3m
 Test Engineer: Logic Wang

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.4.1 E.U.T. Operation

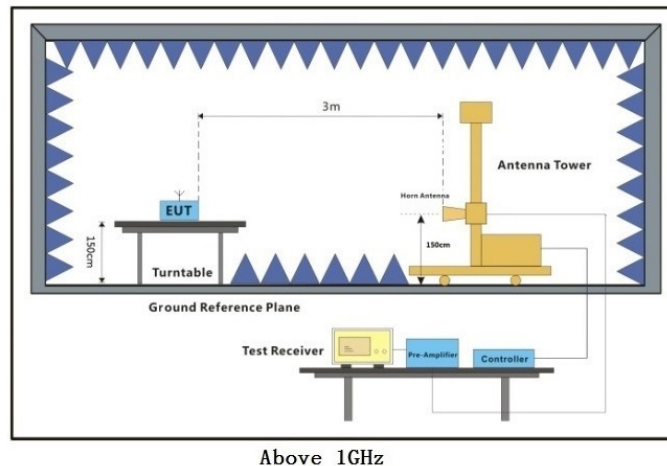
Operating Environment:

Temperature: 23.5 °C Humidity: 56.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.4.3 Test Setup Diagram



Above 1GHz



7.4.4 Measurement Procedure and Data

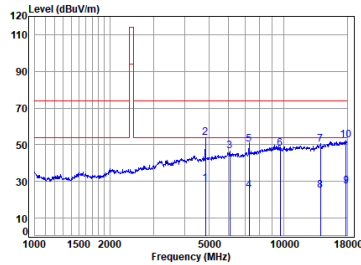
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 18GHz to 40GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



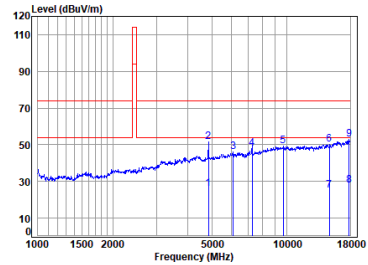
Remote 2.4G SRD_TX_CH_L_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05761ET\05759ET
Mode : 2424 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 q	4848.000	7.45	34.49	54.21	40.81	28.54	54.00	-25.46	Average
2 p	4848.000	7.45	34.49	54.21	66.12	53.85	74.00	-20.15	Peak
3	6071.417	8.92	35.04	53.11	55.62	46.47	74.00	-27.53	Peak
4	7272.000	8.48	35.70	53.17	34.10	25.11	54.00	-28.89	Average
5	7272.000	8.48	35.70	53.17	59.41	50.42	74.00	-23.58	Peak
6	9696.000	10.71	37.50	53.32	53.01	47.90	74.00	-26.10	Peak
7	14038.450	10.94	39.74	52.89	52.40	50.19	74.00	-23.81	Peak
8	14038.450	10.94	39.74	52.89	27.09	24.88	54.00	-29.12	Average
9	17793.090	11.38	43.89	52.50	24.61	27.38	54.00	-26.62	Average
10	17793.090	11.38	43.89	52.50	49.92	52.69	74.00	-21.31	Peak

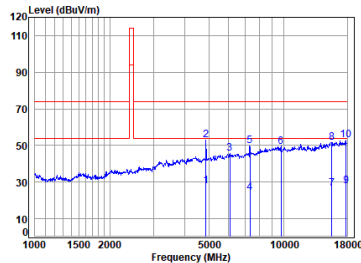
Remote 2.4G SRD_TX_CH_L_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05761ET\05759ET
Mode : 2424 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4848.000	7.45	34.49	54.21	38.41	26.14	54.00	-27.86	Average
2	4848.000	7.45	34.49	54.21	63.72	51.45	74.00	-22.55	Peak
3	6088.991	8.92	35.08	53.11	55.26	46.15	74.00	-27.85	Peak
4	7272.000	8.48	35.70	53.17	56.92	47.93	74.00	-26.07	Peak
5	9696.000	10.71	37.50	53.32	54.33	49.22	74.00	-24.78	Peak
6	14873.890	10.41	40.80	52.64	51.68	50.25	74.00	-23.75	Peak
7	14873.890	10.41	40.80	52.64	26.37	24.94	54.00	-29.06	Average
8	17844.590	11.41	43.90	52.48	24.98	27.81	54.00	-26.19	Average
9	17844.590	11.41	43.90	52.48	50.29	53.12	74.00	-20.88	Peak

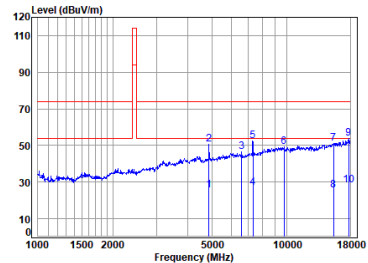
Remote 2.4G SRD_TX_CH_M_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05761ET\05759ET
Mode : 2438 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4876.000	7.47	34.60	54.21	39.82	27.68	54.00	-26.32	Average
2	4876.000	7.47	34.60	54.21	65.13	52.99	74.00	-21.01	Peak
3	6071.417	8.92	35.04	53.11	54.55	45.40	74.00	-28.60	Peak
4	7314.000	8.46	35.70	53.17	33.28	24.27	54.00	-29.73	Average
5	7314.000	8.46	35.70	53.17	58.59	49.58	74.00	-24.42	Peak
6	9752.000	10.69	37.40	53.30	54.52	49.31	74.00	-24.69	Peak
7	15622.990	10.88	41.12	52.10	26.54	26.44	54.00	-27.56	Average
8	15622.990	10.88	41.12	52.10	51.85	51.75	74.00	-22.25	Peak
9	17793.090	11.38	43.89	52.50	24.93	27.70	54.00	-26.30	Average
10	17793.090	11.38	43.89	52.50	50.24	53.01	74.00	-20.99	Peak

Remote 2.4G SRD_TX_CH_M_Vertical

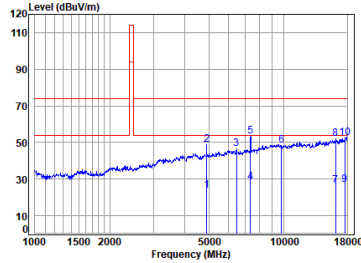


Site : chamber
Condition: 3m VERTICAL
Job No : 05761ET\05759ET
Mode : 2438 TX RSE

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4876.000	7.47	34.60	54.21	37.56	25.42	54.00	-28.58	Average
2	4876.000	7.47	34.60	54.21	62.87	50.73	74.00	-23.27	Peak
3	6583.289	8.83	35.37	53.16	55.51	46.55	74.00	-27.45	Peak
4	7314.000	8.46	35.70	53.17	36.02	27.01	54.00	-26.99	Average
5	7314.000	8.46	35.70	53.17	61.33	52.32	74.00	-21.68	Peak
6	9752.000	10.69	37.40	53.30	54.64	49.43	74.00	-24.57	Peak
7	15443.410	10.83	41.04	52.24	51.30	50.93	74.00	-23.07	Peak
8	15443.410	10.83	41.04	52.24	25.99	25.62	54.00	-28.38	Average
9	17741.740	11.35	43.84	52.53	51.12	53.78	74.00	-20.22	Peak
10	17741.740	11.35	43.84	52.53	25.81	28.47	54.00	-25.53	Average



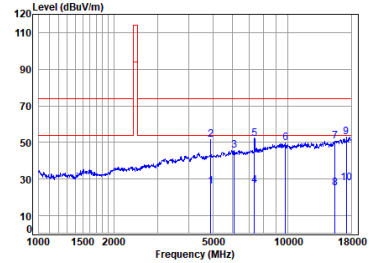
Remote 2.4G SRD_TX_CH_H_Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 05761ET\05759ET
Mode : 2453 TX RSE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	
1 4906.000	7.49	34.69	54.21	35.56	23.53	54.00	-30.47	Average	
2 4906.000	7.49	34.69	54.21	60.87	48.84	74.00	-25.16	Peak	
3 6470.026	8.88	35.54	53.15	55.22	46.49	74.00	-27.51	Peak	
4 q 7359.000	8.45	35.72	53.16	37.14	28.15	54.00	-25.85	Average	
5 p 7359.000	8.45	35.72	53.16	62.45	53.46	74.00	-20.54	Peak	
6 9812.000	10.68	37.28	53.27	53.81	48.50	74.00	-25.50	Peak	
7 16174.370	10.93	41.77	52.00	25.80	26.50	54.00	-27.50	Average	
8 16174.370	10.93	41.77	52.00	51.11	51.81	74.00	-22.19	Peak	
9 17639.470	11.28	43.68	52.58	24.65	27.03	54.00	-26.97	Average	
10 17639.470	11.28	43.68	52.58	49.96	52.34	74.00	-21.66	Peak	

Remote 2.4G SRD_TX_CH_H_Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 05761ET\05759ET
Mode : 2453 TX RSE

Freq	Cable Loss	Factor	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	
1 4906.000	7.49	34.69	54.21	38.18	26.15	54.00	-27.85	Average	
2 4906.000	7.49	34.69	54.21	63.49	51.46	74.00	-22.54	Peak	
3 6088.991	8.92	35.08	53.11	54.96	45.85	74.00	-28.15	Peak	
4 7359.000	8.45	35.72	53.16	35.54	26.55	54.00	-27.45	Average	
5 7359.000	8.45	35.72	53.16	60.85	51.86	74.00	-22.14	Peak	
6 9812.000	10.68	37.28	53.27	54.82	49.51	74.00	-24.49	Peak	
7 15488.110	10.87	41.09	52.20	50.80	50.56	74.00	-23.44	Peak	
8 15488.110	10.87	41.09	52.20	25.49	25.25	54.00	-28.75	Average	
9 p17236.280	11.09	43.04	52.78	51.59	52.94	74.00	-21.06	Peak	
10 q17236.280	11.09	43.04	52.78	26.28	27.63	54.00	-26.37	Average	



7.5 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215
Test Method: ANSI C63.10 (2020) Section 6.9
Test Engineer: Linvo Ding

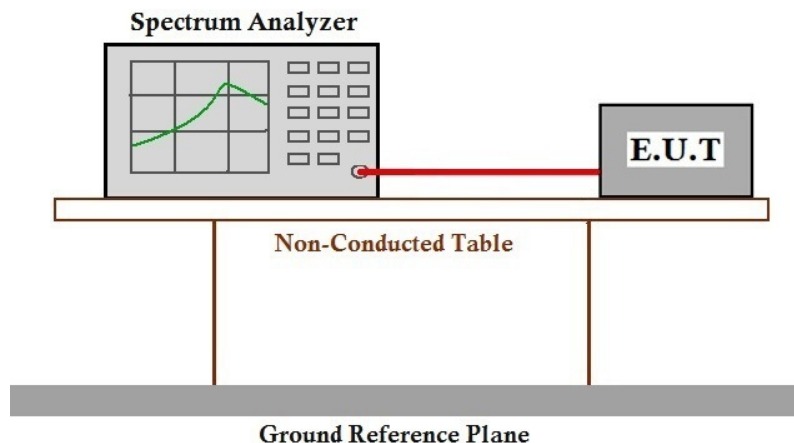
7.5.1 E.U.T. Operation

Operating Environment:
Temperature: 22.5 °C Humidity: 36.3 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX mode_Keep the EUT in transmitting with modulation mode.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Test channel	20dB bandwidth (MHz)	Results
Lowest	1.141	Pass
Middle	1.139	Pass
Highest	1.149	Pass



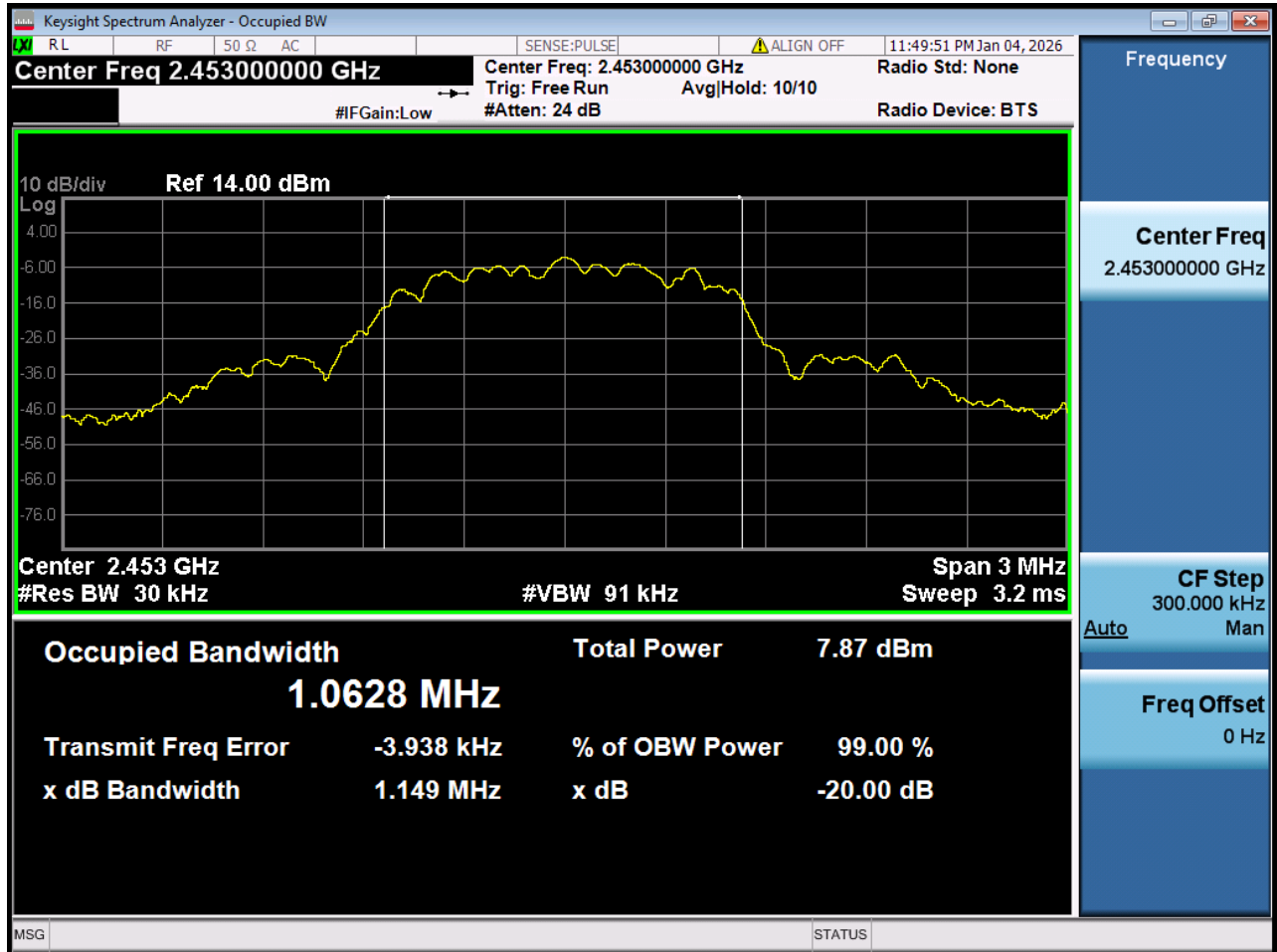
2424MHz



2438MHz



2453MHz



8 Test Setup Photo

Refer to Appendix - Test Setup Photo for SZCR2512005761ET

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2512005761ET

- End of the Report -

