

TEST REPORT

Product : Bluetooth module
Trade mark : SKG
Model/Type reference : SKGBLEJL03
Serial Number : N/A
Report Number : EED32R80809101
FCC ID : 2AYVT-SKGBLEJL03
Date of Issue : Jun. 24, 2025
Test Standards : 47 CFR Part 15 Subpart C
Test result : PASS

Prepared for:

SKG Health Technologies Co., Ltd.

23A Floor, Building 3, Zhongke R&D Park, No. 009, Gaoxin South 1st Road, High-tech Zone Community, Yuehai street, Nanshan District, Shenzhen City, Guangdong Province, P.R.China

Prepared by:

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Date:

Jun. 24, 2025



Check No.: 4944220525

1 Content

1 CONTENT	2
2 TEST SUMMARY	3
3 GENERAL INFORMATION	4
3.1 CLIENT INFORMATION	4
3.2 GENERAL DESCRIPTION OF EUT	4
3.3 TEST CONFIGURATION	5
3.4 TEST ENVIRONMENT	6
3.5 DESCRIPTION OF SUPPORT UNITS	6
3.6 TEST LOCATION	6
3.7 MEASUREMENT UNCERTAINTY (95% CONFIDENCE LEVELS, K=2)	7
4 EQUIPMENT LIST	8
5 TEST RESULTS AND MEASUREMENT DATA	11
5.1 ANTENNA REQUIREMENT	11
5.2 CONDUCTED EMISSIONS	12
5.3 MAXIMUM CONDUCTED OUTPUT POWER	17
5.4 DTS BANDWIDTH	18
5.5 MAXIMUM POWER SPECTRAL DENSITY	19
5.6 BAND EDGE MEASUREMENTS AND CONDUCTED SPURIOUS EMISSION	20
5.7 RADIATED SPURIOUS EMISSION & RESTRICTED BANDS	21
6 APPENDIX A	36
7 PHOTOGRAPHS OF TEST SETUP	37
8 PHOTOGRAPHS OF EUT CONSTRUCTIONAL DETAILS	39

2 Test Summary

Test Item	Test Requirement	Result
Antenna Requirement	47 CFR Part 15 Subpart C Section 15.203/15.247 (c)	PASS
AC Power Line Conducted Emission	47 CFR Part 15 Subpart C Section 15.207	PASS
DTS Bandwidth	47 CFR Part 15 Subpart C Section 15.247 (a)(2)	PASS
Maximum Conducted Output Power	47 CFR Part 15 Subpart C Section 15.247 (b)(3)	PASS
Maximum Power Spectral Density	47 CFR Part 15 Subpart C Section 15.247 (e)	PASS
Band Edge Measurements	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Conducted Spurious Emissions	47 CFR Part 15 Subpart C Section 15.247(d)	PASS
Radiated Spurious Emission & Restricted bands	47 CFR Part 15 Subpart C Section 15.205/15.209	PASS

3 General Information

3.1 Client Information

Applicant:	SKG Health Technologies Co., Ltd.
Address of Applicant:	23A Floor, Building 3, Zhongke R&D Park, No. 009, Gaoxin South 1st Road, High-tech Zone Community, Yuehai street, Nanshan District, Shenzhen City, Guangdong Province, P.R.China
Manufacturer:	SKG Health Technologies Co., Ltd.
Address of Manufacturer:	23A Floor, Building 3, Zhongke R&D Park, No. 009, Gaoxin South 1st Road, High-tech Zone Community, Yuehai street, Nanshan District, Shenzhen City, Guangdong Province, P.R.China

3.2 General Description of EUT

Product Name:	Bluetooth module
Model No.:	SKGBLEJL03
Trade mark:	SKG
Product Type:	☐ Mobile ☐ Portable ☒ Fixed Location
Operation Frequency:	2402MHz~2480MHz
Modulation Type:	GFSK
Transfer Rate:	☒ 1Mbps ☒ 2Mbps
Number of Channel:	40
Antenna Type:	PCB Antenna
Antenna Gain:	2.338dBi
Power Supply:	DC 5V
Test Voltage:	DC 5V
Sample Received Date:	Jun. 09, 2025
Sample tested Date:	Jun. 09, 2025 to Jun. 11, 2025

Operation Frequency each of channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz
2	2406MHz	12	2426MHz	22	2446MHz	32	2466MHz
3	2408MHz	13	2428MHz	23	2448MHz	33	2468MHz
4	2410MHz	14	2430MHz	24	2450MHz	34	2470MHz
5	2412MHz	15	2432MHz	25	2452MHz	35	2472MHz
6	2414MHz	16	2434MHz	26	2454MHz	36	2474MHz
7	2416MHz	17	2436MHz	27	2456MHz	37	2476MHz
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

Channel	Frequency
The lowest channel (CH0)	2402MHz
The middle channel (CH19)	2440MHz
The highest channel (CH39)	2480MHz

3.3 Test Configuration

EUT Test Software Settings:

Test Software:	Fcc_assist_1.1.3			
EUT Power Grade:	Default (Power level is built-in set parameters and cannot be changed and selected)			
Use test software to set the lowest frequency, the middle frequency and the highest frequency keep transmitting of the EUT.				
Test Mode	Modulation	Rate	Channel	Frequency(MHz)
Mode a	GFSK	1Mbps	CH0	2402
Mode b	GFSK	1Mbps	CH19	2440
Mode c	GFSK	1Mbps	CH39	2480
Mode d	GFSK	2Mbps	CH0	2402
Mode e	GFSK	2Mbps	CH19	2440
Mode f	GFSK	2Mbps	CH39	2480

3.4 Test Environment

Operating Environment:	
Radiated Spurious Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
Conducted Emissions:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar
RF Conducted:	
Temperature:	22~25.0 °C
Humidity:	50~55 % RH
Atmospheric Pressure:	1010mbar

3.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Netbook	Asus	FL8700JP1065-0D8GXYQ2X10	FCC&CE	CTI
Netbook is an auxiliary device used as an auxiliary frequency control device.				

3.6 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

3.7 Measurement Uncertainty (95% confidence levels, k=2)

No.	Item	Measurement Uncertainty
1	Radio Frequency	7.9×10^{-8}
2	RF power, conducted	0.46dB (30MHz-1GHz)
		0.55dB (1GHz-40GHz)
3	Radiated Spurious emission test	3.3dB (9kHz-30MHz)
		4.3dB (30MHz-1GHz)
		4.5dB (1GHz-18GHz)
		3.4dB (18GHz-40GHz)
4	Conduction emission	3.5dB (9kHz to 150kHz)
		3.1dB (150kHz to 30MHz)
5	Temperature test	0.64°C
6	Humidity test	3.8%
7	DC power voltages	0.026%

4 Equipment List

RF test system					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Communication test set	R&S	CMW500	107929	06-26-2024	06-25-2025
Signal Generator	R&S	SMBV100A	1407.6004K02-262149-CV	09-02-2024	09-01-2025
Spectrum Analyzer	R&S	FSV40	101200	07-18-2024	07-17-2025
RF control unit(power unit)	MWRF-test	MW100-RFCB	MW220620CTI-42	06-25-2024	06-24-2025
High-low temperature test chamber	Dong Guang Qin Zhuo	LK-80GA	QZ20150611879	11-30-2024	11-29-2025
Temperature/Humidity Indicator	biaozhi	HM10	1804186	05-29-2024 05-26-2025	05-28-2025 05-25-2026
BT&WI-FI Automatic test software	MWRF-test	MTS 8310	V2.0.0.0	---	---
Spectrum Analyzer	R&S	FSV3044	101509	02-14-2025	02-13-2026

Conducted disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
Receiver	R&S	ESCI	100435	04-18-2024 04-08-2025	04-17-2025 04-07-2026
Temperature/ Humidity Indicator	Defu	TH128	/	04-25-2024 03-31-2025	04-24-2025 03-30-2026
LISN	R&S	ENV216	100098	09-19-2024	09-18-2025
Barometer	changchun	DYM3	1188	---	---
Test software	Fara	EZ-EMC	EMC-CON 3A1.1	---	---
Capacitive voltage probe	Schwarzbeck	CVP 9222C	00124	06-18-2024 06-07-2025	06-17-2025 06-06-2026

ISN	TESEQ	ISN T800	30297	12-05-2024	12-04-2025
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3M Semi-anechoic Chamber (2)- Radiated disturbance Test					
Equipment	Manufacturer	Model No.	Serial Number	Cal. date	Cal. Due date
				(mm-dd-yyyy)	(mm-dd-yyyy)
3M Chamber & Accessory Equipment	TDK	SAC-3	---	01/13/2024	01/12/2027
Receiver	R&S	ESC17	100938-003	09/07/2024	09/06/2025
Spectrum Analyzer	R&S	FSV40	101200	07/18/2024	07/17/2025
TRILOG Broadband Antenna	schwarzbeck	VULB 9163	9163-618	05/22/2022 05/14/2025	05/21/2025 05/13/2026
Loop Antenna	Schwarzbeck	FMZB 1519B	1519B-076	04/07/2025	04/06/2026
Microwave Preamplifier	Tonscend	EMC051845SE	980380	12/05/2024	12/04/2025
Horn Antenna	A.H.SYSTEMS	SAS-574	374	07/02/2023	07/01/2026
Horn Antenna	ETS-LINGREN	BBHA 9120D	9120D-1869	04/07/2025	04/06/2026
Preamplifier	Agilent	11909A	12-1	03/03/2025	03/02/2026
Preamplifier	CD	PAP-1840-60	6041.6042	06/19/2024	06/18/2025
Test software	Fara	EZ-EMC	EMEC-3A1-Pre	---	---
Cable line	Fulai(7M)	SF106	5219/6A	01/13/2024	01/12/2027
Cable line	Fulai(6M)	SF106	5220/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5216/6A	01/13/2024	01/12/2027
Cable line	Fulai(3M)	SF106	5217/6A	01/13/2024	01/12/2027

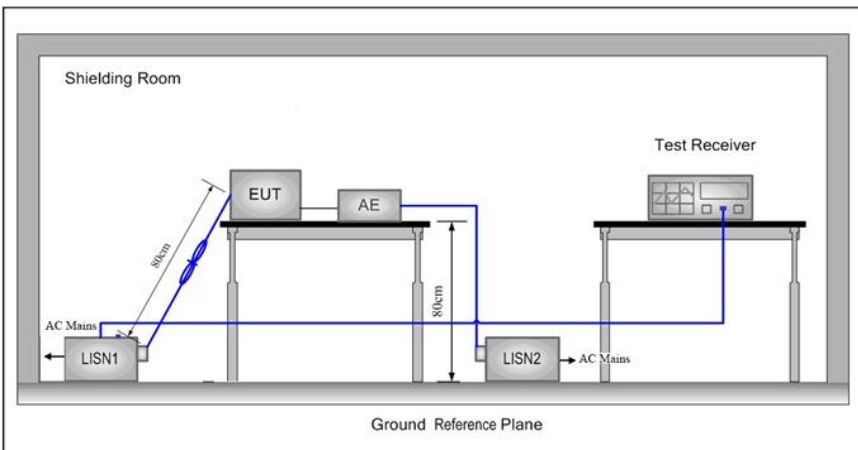
3M full-anechoic Chamber					
Equipment	Manufacturer	Model No.	Serial Number	Cal. Date (mm-dd-yyyy)	Cal. Due date (mm-dd-yyyy)
Fully Anechoic Chamber	TDK	FAC-3	---	01-09-2024	01-08-2027
Receiver	Keysight	N9038A	MY57290136	01-04-2025	01-03-2026
Spectrum Analyzer	Keysight	N9020B	MY57111112	01-14-2025	01-13-2026
Spectrum Analyzer	Keysight	N9030B	MY57140871	01-14-2025	01-13-2026
TRILOG Broadband Antenna	Schwarzbeck	VULB 9163	9163-1148	04-12-2025	04-11-2026
Horn Antenna	Schwarzbeck	BBHA 9170	9170-832	04-12-2025	04-11-2026
Horn Antenna	ETS-LINDGREN	3117	57407	07-03-2024	07-02-2025
Preamplifier	EMCI	EMC001330	980563	03-03-2025	03-02-2026
Preamplifier	Tonscend	TAP-011858	AP21B806112	07-18-2024	07-17-2025
Preamplifier	Tonscend	EMC051845SE	980380	12-05-2024	12-04-2025
Communication test set	R&S	CMW500	102898	01-04-2025	01-03-2026
Temperature/ Humidity Indicator	biaozhi	GM1360	EE1186631	03-31-2025	03-30-2026
RSE Automatic test software	JS Tonscend	JS36-RSE	V4.0.0.0	---	---
Cable line	Times	SFT205-NMSM-2.50M	394812-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0002	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	394812-0003	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-2.50M	393495-0001	01-09-2024	01-08-2027
Cable line	Times	EMC104-NMNM-1000	SN160710	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-3.00M	394813-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMNM-1.50M	381964-0001	01-09-2024	01-08-2027
Cable line	Times	SFT205-NMSM-7.00M	394815-0001	01-09-2024	01-08-2027
Cable line	Times	HF160-KMKM-3.00M	393493-0001	01-09-2024	01-08-2027

5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement:	47 CFR Part 15C Section 15.203 /247(c)
15.203 requirement: 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. 15.247(b) (4) requirement: The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.	
EUT Antenna:	Please see Internal photos
The antenna is PCB antenna. The best case gain of the antenna is 2.338dBi.	

5.2 Conducted Emissions

Test Requirement:	47 CFR Part 15C Section 15.207		
Test Method:	ANSI C63.10: 2013		
Test Frequency Range:	150kHz to 30MHz		
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto		
Limit:	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 Setup:			
Test Procedure:	1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a $50\Omega/50\mu\text{H} + 5\Omega$ linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.		
Test Mode:	All modes were tested, only the worst case mode d was recorded in the report.		

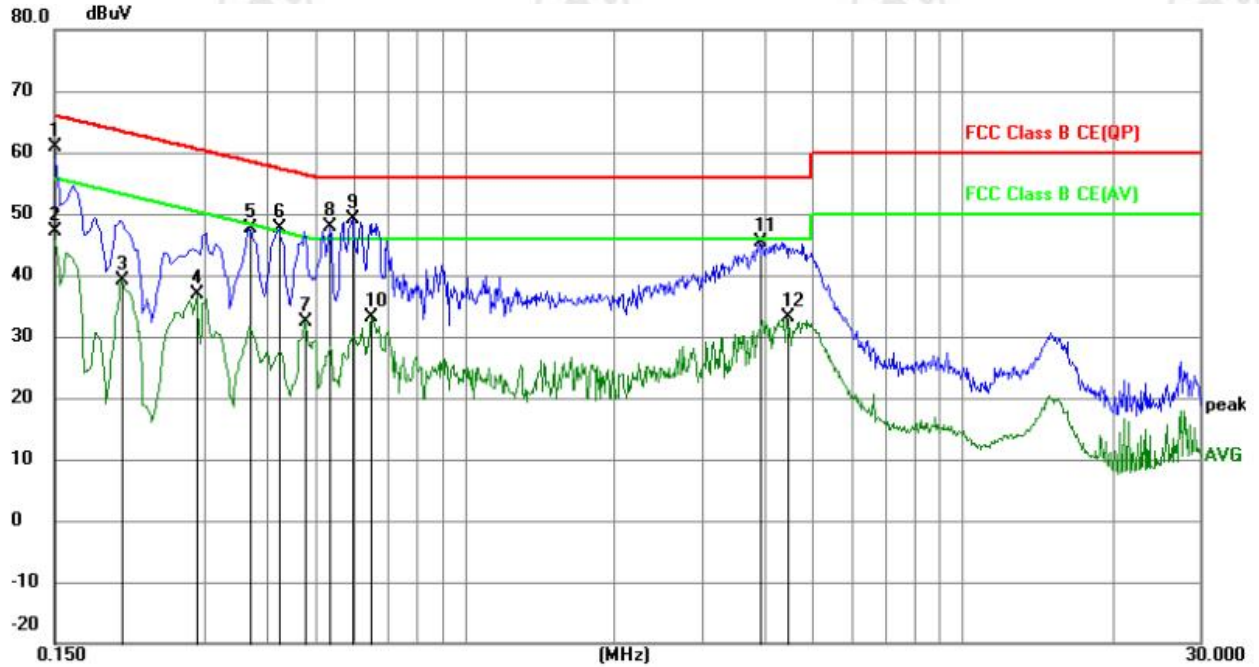
Test Results:

Pass

Measurement Data

1M

Live line:

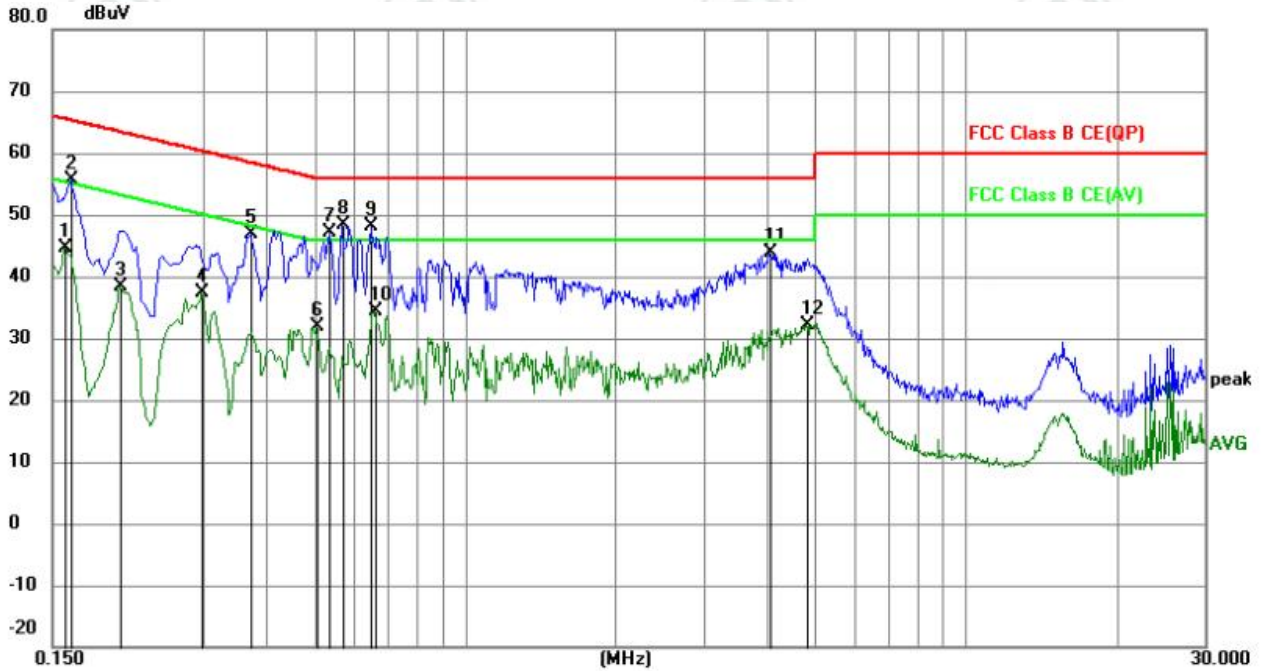


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	50.50	10.28	60.78	66.00	-5.22	QP	
2		0.1500	36.83	10.28	47.11	56.00	-8.89	AVG	
3		0.2040	28.89	10.21	39.10	53.45	-14.35	AVG	
4		0.2895	26.73	10.14	36.87	50.54	-13.67	AVG	
5		0.3704	37.47	10.10	47.57	58.49	-10.92	QP	
6		0.4245	37.64	10.09	47.73	57.36	-9.63	QP	
7		0.4785	22.20	10.08	32.28	46.37	-14.09	AVG	
8		0.5370	37.81	10.09	47.90	56.00	-8.10	QP	
9		0.5955	39.14	10.10	49.24	56.00	-6.76	QP	
10		0.6495	23.09	10.11	33.20	46.00	-12.80	AVG	
11		3.9075	35.39	10.10	45.49	56.00	-10.51	QP	
12		4.4520	22.96	10.08	33.04	46.00	-12.96	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:



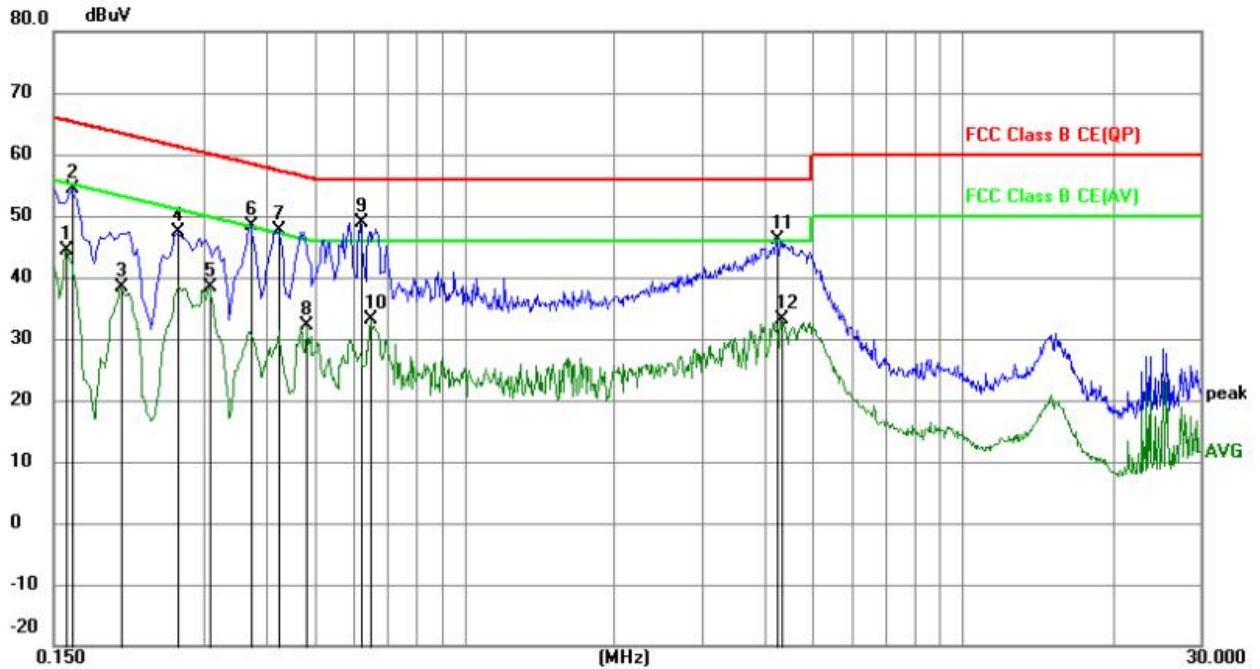
No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1		0.1590	34.26	10.27	44.53	55.52	-10.99	AVG	
2		0.1635	45.49	10.26	55.75	65.28	-9.53	QP	
3		0.2040	28.22	10.21	38.43	53.45	-15.02	AVG	
4		0.2985	27.19	10.13	37.32	50.28	-12.96	AVG	
5		0.3750	36.83	10.10	46.93	58.39	-11.46	QP	
6		0.5055	21.86	10.08	31.94	46.00	-14.06	AVG	
7		0.5370	37.04	10.09	47.13	56.00	-8.87	QP	
8	*	0.5685	38.21	10.09	48.30	56.00	-7.70	QP	
9		0.6495	37.94	10.11	48.05	56.00	-7.95	QP	
10		0.6585	24.21	10.12	34.33	46.00	-11.67	AVG	
11		4.0695	33.89	10.09	43.98	56.00	-12.02	QP	
12		4.8029	21.96	10.07	32.03	46.00	-13.97	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

2M

Live line:

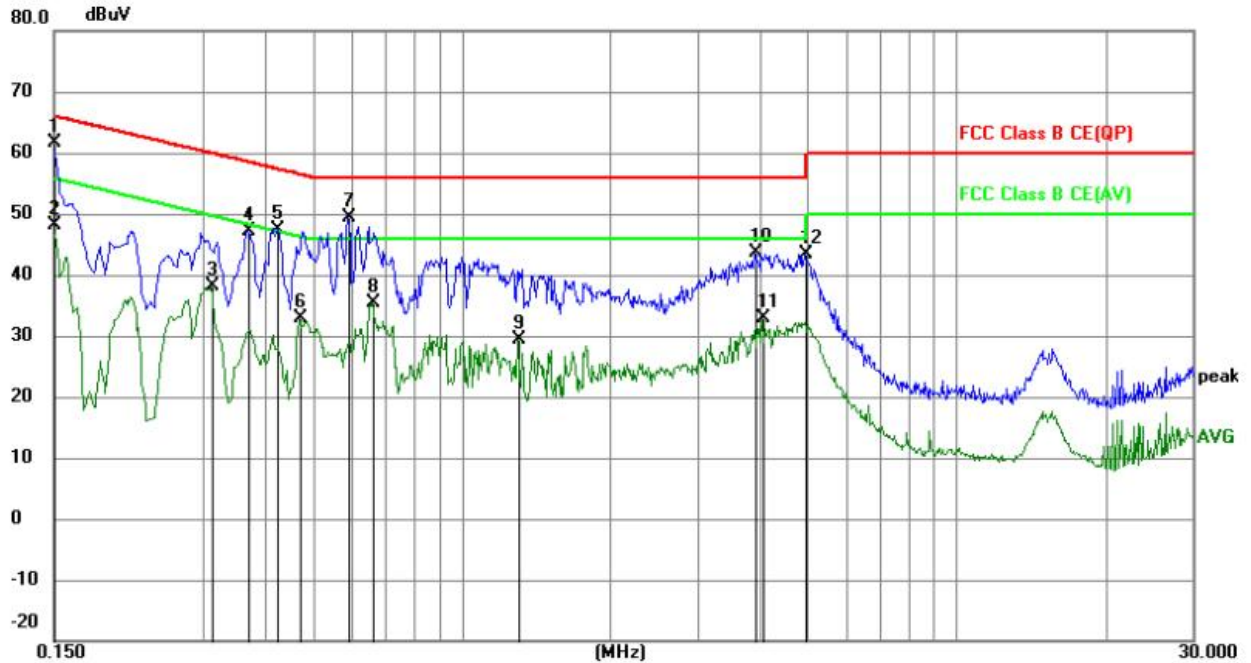


No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	34.13	10.27	44.40	55.52	-11.12	AVG	
2		0.1635	44.06	10.26	54.32	65.28	-10.96	QP	
3		0.2040	28.06	10.21	38.27	53.45	-15.18	AVG	
4		0.2670	37.15	10.16	47.31	61.21	-13.90	QP	
5		0.3075	28.28	10.13	38.41	50.04	-11.63	AVG	
6		0.3750	38.38	10.10	48.48	58.39	-9.91	QP	
7		0.4245	37.48	10.09	47.57	57.36	-9.79	QP	
8		0.4830	22.03	10.08	32.11	46.29	-14.18	AVG	
9	*	0.6180	38.66	10.11	48.77	56.00	-7.23	QP	
10		0.6495	23.00	10.11	33.11	46.00	-12.89	AVG	
11		4.2450	35.95	10.09	46.04	56.00	-9.96	QP	
12		4.3260	23.08	10.08	33.16	46.00	-12.84	AVG	

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

Neutral line:

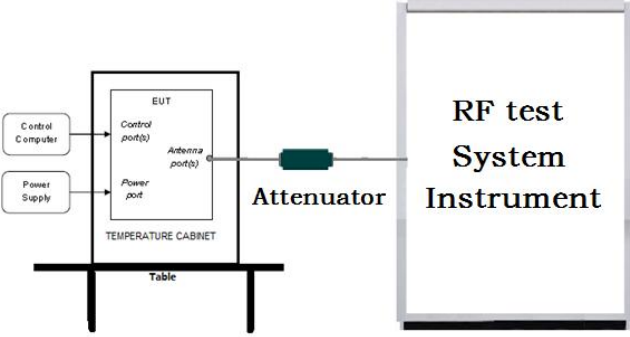


No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	51.35	10.28	61.63	66.00	-4.37	QP	
2		0.1500	37.87	10.28	48.15	56.00	-7.85	AVG	
3		0.3120	27.89	10.13	38.02	49.92	-11.90	AVG	
4		0.3704	37.15	10.10	47.25	58.49	-11.24	QP	
5		0.4245	37.41	10.09	47.50	57.36	-9.86	QP	
6		0.4695	22.79	10.08	32.87	46.52	-13.65	AVG	
7		0.5910	39.26	10.10	49.36	56.00	-6.64	QP	
8		0.6584	25.17	10.12	35.29	46.00	-10.71	AVG	
9		1.2974	19.16	10.18	29.34	46.00	-16.66	AVG	
10		3.9075	33.41	10.10	43.51	56.00	-12.49	QP	
11		4.0695	22.71	10.09	32.80	46.00	-13.20	AVG	
12		4.9425	33.25	10.06	43.31	56.00	-12.69	QP	

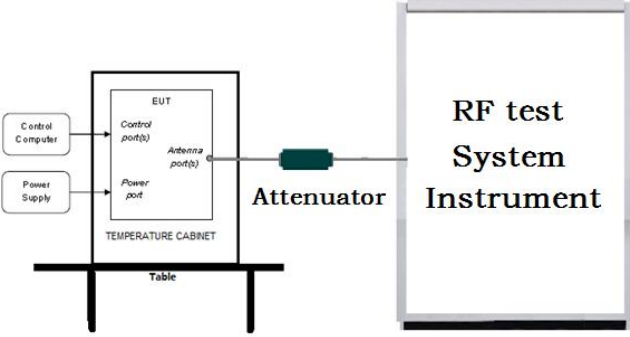
Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:
2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.
3. If the Peak value under Average limit, the Average value is not recorded in the report.

5.3 Maximum Conducted Output Power

Test Requirement:	47 CFR Part 15C Section 15.247 (b)(3)
Test Method:	ANSI C63.10 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set the RBW $\geq$ DTS bandwidth. b) Set VBW $\geq 3 \times$ RBW. c) Set span $\geq 3 \times$ RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Limit:	30dBm
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A

5.4 DTS Bandwidth

Test Requirement:	47 CFR Part 15C Section 15.247 (a)(2)
Test Method:	ANSI C63.10 2013
Test Setup:	 Remark: Offset=Cable loss+ attenuation factor.
Test Procedure:	a) Set RBW = 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) 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.
Limit:	$\geq 500 \text{ kHz}$
Test Mode:	Refer to clause 5.3
Test Results:	Refer to Appendix A