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FCC TEST REPORT

Model : SC-53F Variant Model : SCG33 FCC ID : A3LSMA253JPN Application Type : Certification EUT Type : Mobile Phone

 Prepared By
 Date

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 Checked By
 Date

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 Date

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Table of Contents:

1. Report Information

1.1 Revision History

2. General Information

3. PRODUCT INFORMATION

- 3.1 Equipment Description
- 3.2 Device Capabilities
- 3.3 Emission
- 3.4 Test Configuration and Condition
- 3.5 EUT operating mode
- 3.6 Test Condition
- 3.7 Identification of Samples Tested
- 3.8 EMI Suppression Device(s)/Modifications

4. DESCRIPTION OF TEST

- 4.1 Evaluation Procedure
- 4.2 AC Line Conducted Emissions
- 4.3 Radiated Emissions

5. TEST EQUIPMENT CALIBRATION AND UNCERTAINTY

- 5.1 Measuring instrument calibration
- 5.2 Test Support Equipment
- 5.3 Measurement Uncertainty

6. TEST RESULTS

- 6.1 Summary
- 6.2 Radiated disturbance
- 6.3 Conducted disturbance

7. CONCLUSION

1. Report Information

1.1 Revision History

No.	Revised Detailed Information.	
Issue 1	There is no revisions and this version is basic test report.	
Issue 2	Operation bands are changed.	

2. General Information

APPLICANT:	SAMSUNG Electronics Co., Ltd	
APPLICANT ADDRESS:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea	
TEST SITE:	SEQAL Korea	
TEST SITE ADDRESS:	129, Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea	
FCC Designation Number	KR0028	
FCC RULE PART(S)	47 CFR Part 15.B	
TEST PROCEDURE(S):	ANSI C63.4-2014	
MODEL NAME:	SC-53F	
FCC ID:	A3LSMA253JPN	
DATE(S) OF RECEIPT:	2024.10.23	
DATE(S) OF TEST:	2024.10.29 ~ 2024 10.30	
TEST DEVICE JOB NO.:	FV-024	
TEST DEVICE SERIAL NO.:	Sample #1 : R3CX90B4JQJ Sample #2 : R3CX90B4JHW	

Samsung Electronics Quality Assurance Lab is accredited and designated in accordance with the provisions of Radio Wave Act and International Standard ISO/IEC 17025 by the National Radio Research Agency with designation No. KR0028. for EMC testing.

3. PRODUCT INFORMATION

3.1 Equipment Description

The Equipment Under Test (EUT) is the SC-53F

The test data contained in this report pertains only to the emissions due to the digital circuitry of the EUT.

3.2 Device Capabilities

This device contains the following capabilities:

Operation Band(s):

- GSM 850/900/1800/1900
- WCDMA FDD I / V
- LTE FDD 1/2/3/5/8/12/18/19/21/26/28/66 TDD 38/39/41/42
- 5G FR1 n1/3/5/28/77/78/79

Additional Capabilities:

- Bluetooth, Audio and Video, GNSS, NFC, Wi-Fi(802.11b/g/n/a/ac), Camera, DP, SD Card

3.3 Emission

Applied	Test type	Applied standard	Result
	Conducted Disturbance (Mains port)	47 CFR Part 15 Subpart B / ANSI C63.4-2014 (Class B)	Complied
	Radiated Disturbance		Complied

Table 3-3. Emission

3.4 Test Configuration and Condition

The system was configured for testing in a typical fashion that a customer would normally use. Cables were attached to each of the available I/O Ports. Where applicable, peripherals were attached to the I/O cables. All the external I/O ports are exercised, as well as internal storage and external SD card, by writing and reading arbitrary data or charging with TA.

The EUT was investigated in three orientations and the worst case orientation is reported.

Cellular Rx mode conducted testing was performed with the LTE FDD 5 mode at center frequency. All licensed communication Cellular Rx mode, GSM/WCDMA/LTE/5G test results are not significantly different.

Audio and video were played on monitor through Display Out function using direct DP Cable or DP converter.

The camera of the EUT was operated continuously.

Power source for the EUT operating was supplied by CVCF made by Digitek Power and AC Power Korea

Test Voltage : AC 120 V, 60 Hz

3.5 EUT operating mode

To achieve compliance applied standard specification including CXX, JAB and JBP requirement, the following mode(s) were made during compliance testing:

※ Remark

Compliance with Part 15B(Section 15.107 Conducted limits) requirements for the receiver part of the licensed transmitter(equipment code CXX) is covered by this test report.

3.5.1 Radiated Emission

No.	Operating mode	
1	Camera (Rear) + Charging (w/ TA)	
2	Camera (Front)	
3	3 Video + Audio playback from internal memory data + Display out (w/DP Cable)	
4	USB Data Communication with PC (from external memory data)	

3.5.2 Conducted Emission

No.	Operating mode
1	Camera (rear) + Charging (w/ TA) + Cellular receiver (LTE B5 Center Frequency)
2	Camera (front) + Charging (w/ TA)
3	Video + Audio playback from internal memory data + Charging (w/ TA)
4	USB Data Communication with PC (from external memory data)

3.5.3 EUT Frequency

The highest Frequency	Frequency[MHz]
Wi-Fi	5,835

Note: Upper frequency of measurement range(MHz): 5th harmonic of the highest frequency or 40GHz, whichever is lower.

3.6 Test Condition

Max Temperature	24.4 °C
Max Humidity	49.3%

3.7 Identification of Samples Tested

Date of Receipt	Identification Number:	Information of samples:
2024.10.23	FV-024-1	#1
2024.10.23	FV-024-2	#2

3.8 EMI Suppression Device(s)/Modifications

No EMI suppression device(s) were added and/or no modifications were made during testing.

4. DESCRIPTION OF TEST

4.1 Evaluation Procedure

The measurement procedure described in the American National Standard for Methods of measurement of Radio-Noise Emission from Low-Voltage Electrical and Electronic Equipment on the Range of 150KHz to 40GHz(ANSI C63.4- 2014) was used in the measurement of SC-53F

4.2 AC Line Conducted Emissions

The EUT is powered from one LISN and the support equipment is powered from the second LISN. If the EUT is a DC-powered device, power will be derived from the source power supply it normally will be powered from and this supply line(s) will be connected to the second LISN. All interconnecting cables more than 1 meter were shortened to a 1 meter length by non-inductive bundling (serpentine fashion) and draped over the back edge of the test table. All cables were at least 40cm above the horizontal reference ground plane. Power cables for support equipment were routed down to the second LISN while ensuring that cables were not draped over the second LISN.

Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The RF output of the LISN was connected to the spectrum analyzer and exploratory measurements were made to determine the frequencies producing the maximum emission from the EUT. The spectrum was scanned from 150kHz to 30MHz with a spectrum analyzer. The detector function was set to peak mode for exploratory measurements while the bandwidth of the analyzer was set to 10kHz. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Each emission was also maximized by varying to the EUT and/or support equipment whichever determined the worst-case emission. Once the worst case emissions have been identified, the one EUT cable configuration / arrangement and mode of operation that produced these emissions is used for final measurements on the same test site. The analyzer is set to CISPR quasi-peak and average detectors with a 9kHz resolution bandwidth for final measurements.

Line conducted emissions test results are shown in Section 6.3. Automated test software was used to perform the AC line conducted emissions testing. Automated measurement software utilized is TOYO ES10-CE, Version 2022.07

4.3 Radiated Emissions

The radiated test facilities consisted of an indoor 3 meter semi-anechoic chamber used for final measurements and exploratory measurements, when necessary. The measurement area is contained within the semi-anechoic chamber which is shielded from any ambient interference. For measurements above 1GHz absorbers are arranged on the floor between the turn table and the antenna mast in such a way so as to maximize the reduction of reflections. For measurements below 1GHz, the absorbers are removed.

For all measurements, the spectrum was scanned through all EUT azimuths and from 1 to 4 meter receive antenna height using a broadband antenna from 30MHz up to the upper frequency shown in 15.33(b)(1) depending on the highest frequency generated or used in the device or on which the device operates or tunes. For frequencies above 1GHz, linearly polarized double ridge horn antennas were used. When exploratory measurements were necessary, they were performed at 1 meter test distance inside the semi-anechoic chamber using broadband antennas, broadband amplifiers, and spectrum analyzers to determine the frequencies and modes producing the maximum emissions. Sufficient time for the EUT, support equipment, and test equipment was allowed in order for them to warm up to their normal operating condition. The test set-up was placed on top of the 0.8 meter high, 1 x 1.5 meter table. The EUT, support equipment, and interconnecting cables were arranged and manipulated to maximize each emission. Appropriate precaution was taken to ensure that all emissions from the EUT were maximized and investigated. The system configuration, clock speed, mode of operation or video resolution, if applicable, turntable azimuth, and receive antenna height was noted for each frequency found.

Final measurements were made in the semi-anechoic chamber using calibrated, linearly polarized broadband and horn antennas. The test setup was configured to the setup that produced the worst case emissions. The spectrum analyzer was set to investigate all frequencies required for testing to compare the highest radiated disturbances with respect to the specified limits. The turntable containing the EUT was rotated through 360 degrees and the height of the receive antenna was varied 1 to 4 meters and stopped at the azimuth and height producing the maximum emission. Each emission was maximized by changing the orientation of the EUT through three orthogonal planes and changing the polarity of the receive antenna, whichever produced the worst-case emissions.

Automated test software, TOYO EP5-RE, Version 5.9.1, was used to perform the radiated emissions testing.

5. TEST EQUIPMENT CALIBRATION AND UNCERTAINTY

5.1 Measuring instrument calibration

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

TEST EQUIPMENT LIST				
Description	Model	Manufacturer	Date of next Calibration	S/N
BILOG Antenna	CBL 6112D	TESEQ	2026-01-18	36010
BILOG Antenna	CBL 6112D	TESEQ	2025-12-06	36011
BILOG Antenna	CBL 6112D	TESEQ	2025-12-06	36012
6dB Attenuator	50HF-006	JFW	2025-12-06	None
HORN Antenna	HF907	R&S	2025-06-04	100492
HORN Antenna	HF907	R&S	2026-06-05	100579
Pre-amplifier (30MHz to 1GHz)	310	Sonoma	2025-07-24	304577
Pre-amplifier (1GHz to 18GHz)	SCU-18	R&S	2025-01-29	10216
Pre-amplifier (1GHz to 18GHz)	SCU-18F	R&S	2025-04-09	100944
HORN Antenna & Pre-amplifier assembly (18GHz to 26.5GHz)	HAP18-26N	Flann	2026-04-19	216249
HORN Antenna & Pre-amplifier assembly (18GHz to 26.5GHz)	HAP18-26N	Flann	2025-01-25	216251
HORN Antenna & Pre-amplifier assembly (26.5GHz to 40GHz)	HAP18-26N	Flann	2025-01-25	216252
HORN Antenna & Pre-amplifier assembly (26.5GHz to 40GHz)	HAP26-40N	Flann	2026-04-19	216253
HORN Antenna & Pre-amplifier assembly (26.5GHz to 40GHz)	HAP26-40N	Flann	2026-07-23	216250
EMI Receiver	ESU40	R&S	2025-07-08	100370
EMI Receiver	ESU	R&S	2025-01-12	100521
EMI Receiver	ESU8	R&S	2025-04-23	100474
EMI Receiver	ESCI	R&S	2025-08-16	101367/003
EMI Receiver	ESCI7	R&S	2025-10-26	100758
TWO L LINE-V-NETWORK	ENV216	R&S	2025-07-12	101053
TWO L LINE-V-NETWORK	ENV216	R&S	2025-07-12	101644
Communication Tester	CMW500	R&S	2025-07-24	163307
Vector Signal Generator	SMBV100A	R&S	2025-09-24	260252
Test software	EP5-RE	ΤΟΥΟ	-	V5.9.1
Test software	ES10-CE	ΤΟΥΟ	-	V2022.07

Table 5-1. Annual Test Equipment Calibration Schedule

5.2 Test Support Equipment

Description	Model	Manufacturer	Serial Number	FCC ID.
Note Book PC	NT520QFD-RS1	Samsung	64PJ9FGTC00262A	Doc
Note Book Power Supply	EP-T4511	DONGYANG E&P	R37F7900011SE3	Doc
Mouse	AA-SM7PCP	Samsung	CNBA59003634ADV8J32S6837	Doc
Travel Adapter	EP-TA800	DONGYANG E&P	R37TAAA00EBDKA	-
Travel Adapter	EP-TA800	DONGYANG E&P	R37TAAA00JBDKA	-
Monitor	27UD88	LG	705NTPC4H256	Doc
DP Cable	DM479	COMS	-	-
Router	DIR-825	D-Link	F37T32D4000718	Doc
Router Power Supply	CG2412-B	D-Link	LF2R00113129007	Doc
Data Cable	EP-DN980	RFTECH	-	-

 Table 5-2.
 Test Support Equipment Used

5.3 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus

Test Item		Measurement Uncertainty (C.L. 95%, k=2)
Conducted Disturbance	0.15MHz to 30MHz	2.74 dB
Radiated Disturbance	Below 1GHz (Horizontal)	3.90 dB
	Below 1GHz (Vertical)	4.03 dB
	Above 1GHz (Horizontal)	3.99 dB
	Above 1GHz (Vertical)	3.99 dB

 Table 5-3. Measurement Uncertainty

6. TEST RESULTS

6.1 Summary

FCC Part 15 Section	Description	Test Result
15.107	Conducted Emissions	Complied
15.109	Radiated Emissions	Complied

Table 6-1. Summary of Test Results

Note: See Appendix A. Test setup photographs for actual system test setup.

6.2 Radiated disturbance

The following data lists the significant emission frequencies, measured levels, correction factors (for antenna and cables), orientation of table, polarization and height of antenna, the corrected reading, the limit, and the amount of margin.

Peak measurements were made over the changeable frequency range 30 MHz to 1 GHz at a measurement distance of 10 m for the following antenna and turntable arrangements:

Antenna Height [cm]	Antenna Polarization	Resolution Bandwidth [KHz]	Video Bandwidth [KHz]	Turntable position [degrees]	
100 ~ 400	Horizontal, Vertical	120	300	Continuous	

Measurements within 6 dB of the limit were then maximized by adjusting turntable position. Final measurements were made using quasi-peak detector.

Peak/CISPR-Average measurements were made over the changeable frequency range 1 GHz to 40 GHz or 5th harmonics of the highest frequency generated or used in the device or on which the device operate or tunes at a measurement distance of 3 m for the following antenna and turntable arrangements. The measurements above 1 GHz were performed with the bore-sighting antenna aimed at the EUT.

Antenna Height [cm]	Antenna Polarization	Resolution Bandwidth [MHz]	Video Bandwidth [MHz]	Turntable position	
100 ~ 400	Horizontal, Vertical	1	3	Continuous	

Measurements within 6 dB of the limit were then maximized by adjusting turntable position. Final measurements were made using peak and CISPR-average detectors.

Limits for radiated disturbance of Class B ITE at a measuring distance of 3 m

Frequency range Limits	Field Strength						
[MHz]	3 m [µV/m]	3 m [dB(µV/m)]					
30 to 88	100	40					
88 to 216	150	43.5					
216 to 960	200	46					
Above 960	500	54					

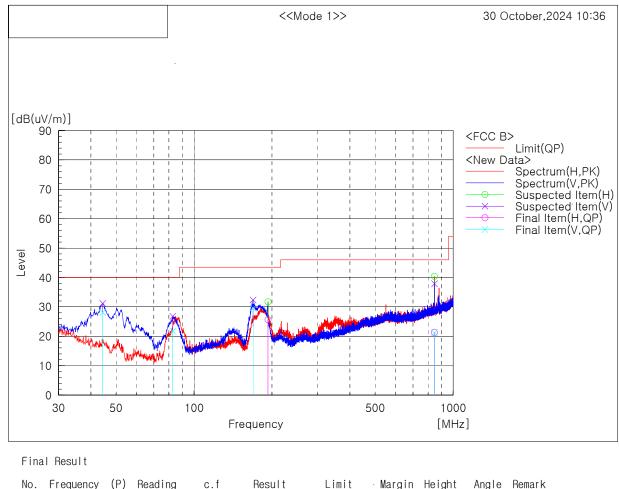
Results checked manually; and points close to the limit line were re-measured.

Report Number: FV-024-U1/2-1

Issue Date

Operating Mode 1

Frequencies below 1 GHz



NO.	Frequency	(Γ)	neauting	C.I	nesuri		wargin	nergiit	Angre	neillai
			QP		QP	QP	QP			
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	193.081	Н	40.3	-14.7	25.6	43.5	17.9	99.8	32.5	
2	82.744	V	39.0	-17.2	21.8	40.0	18.2	200.4	52.0	
3	168.831	V	44.3	-14.7	29.6	43.5	13.9	99.8	169.4	
4	847.104	Н	22.7	-1.4	21.3	46.0	24.7	99.8	233.7	
5	847.468	V	22.6	-1.4	21.2	46.0	24.8	200.5	242.7	
6	44.429	V	42.2	-14.1	28.1	40.0	11.9	99.8	340.0	

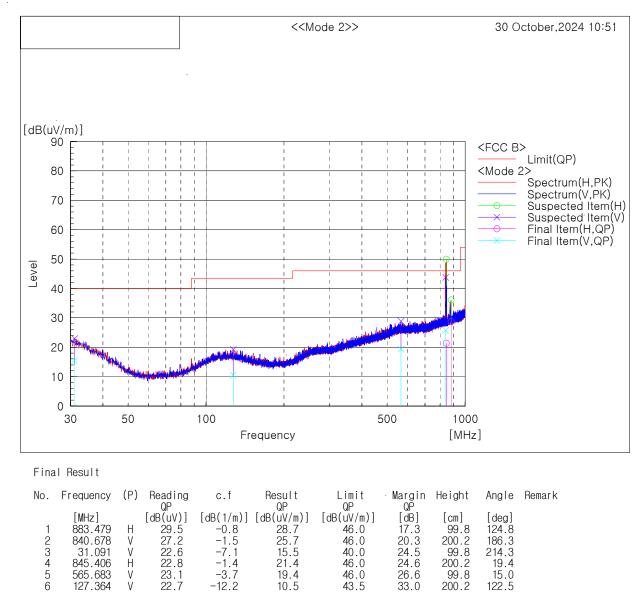
Note1) Receiving antenna polarization : Horizontal, Vertical Test Distance : 3 m, Antenna Height : 1 to 4 meters Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain) Margin (QP) = Limit – Level (QP) QP = Quasi-Peak, c.f = Correction Factor

Report Number: FV-024-U1/2-1

Issue Date

Operating Mode 2

Frequencies below 1 GHz



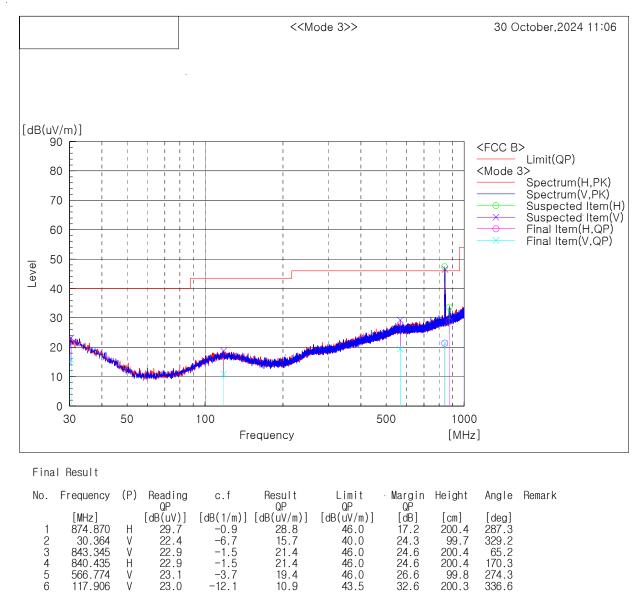
Note1) Receiving antenna polarization : Horizontal, Vertical Test Distance : 3 m, Antenna Height : 1 to 4 meters Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain) Margin (QP) = Limit – Level (QP) QP = Quasi-Peak, c.f = Correction Factor

Report Number: FV-024-U1/2-1

Issue Date

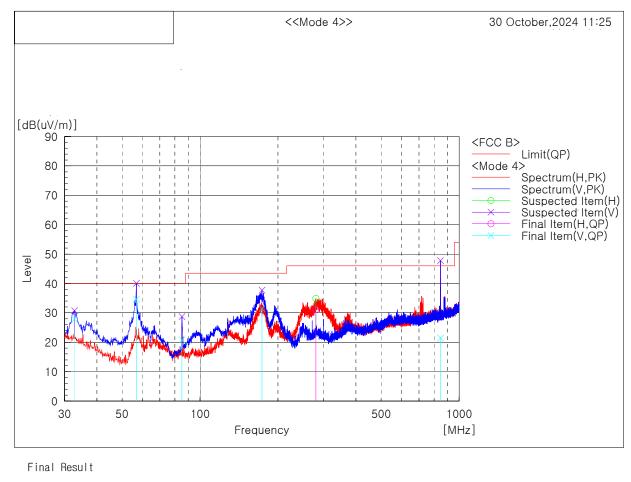
Operating Mode 3

Frequencies below 1 GHz



Note1) Receiving antenna polarization : Horizontal, Vertical Test Distance : 3 m, Antenna Height : 1 to 4 meters Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain) Margin (QP) = Limit – Level (QP) QP = Quasi-Peak, c.f = Correction Factor

Frequencies below 1 GHz



No.	Frequency	(P)	Reading QP	c.f	Result QP	Limit QP	• Margin QP	Height	Angle	Remark
	[MHz]		[dB(uV)]	[dB(1/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB]	[cm]	[deg]	
1	56.796	V	53.4	-18.7	34.7	40.0	5.3	99.7	228.3	
2	173.318	V	46.3	-14.8	31.5	43.5	12.0	99.7	105.1	
3	32.789	V	35.8	-7.9	27.9	40.0	12.1	99.7	96.4	
4	279.775	Н	41.6	-10.5	31.1	46.0	14.9	99.7	168.7	
5	85.169	V	37.7	-16.8	20.9	40.0	19.1	99.7	10.2	
6	847.831	V	22.9	-1.4	21.5	46.0	24.5	99.7	207.3	

Note1) Receiving antenna polarization : Horizontal, Vertical Test Distance : 3 m, Antenna Height : 1 to 4 meters Result (QP) = Reading (QP) + c.f (Antenna Factor + Cable Loss - Amp. Gain) Margin (QP) = Limit – Level (QP) QP = Quasi-Peak, c.f = Correction Factor

Notes:

1. All modes of operation were investigated and the worst-case emissions are reported.

2. Radiated emissions were measured from 30MHz -1GHz to ensure that the provisions of

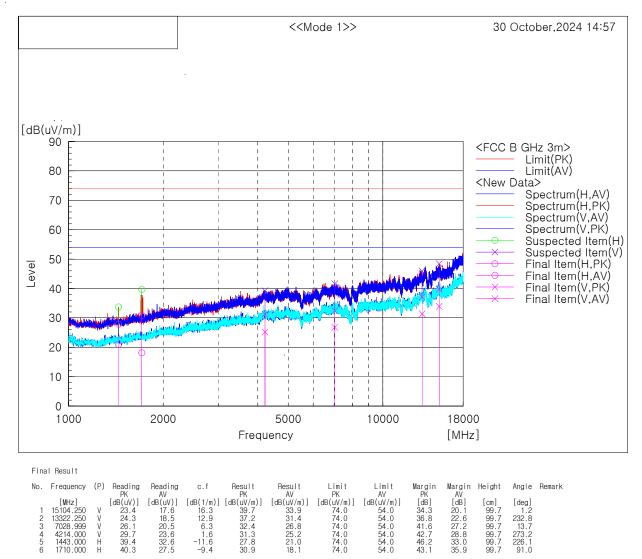
15.33(b)(1) are satisfied with respect to the upper frequency scanning range.

3. The radiated limits for unintentional radiators at a distance of 3 meters are used in the table above, as specified in 15.109(a).

4. Measurements are made using a CISPR quasi-peak detector with a 100KHz resolution bandwidth. Above 1GHz, peak measurements are made using a peak detector with a resolution bandwidth of 1MHz and a video bandwidth of 3MHz and average measurements are made with a peak detector using a resolution bandwidth of 1MHz and a video bandwidth of 3MHz.

5. Calibrated linearly polarized broadband and horn antenna were used for measurements below and above 1GHz, respectively. For measurements made below 1GHz, the results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy.

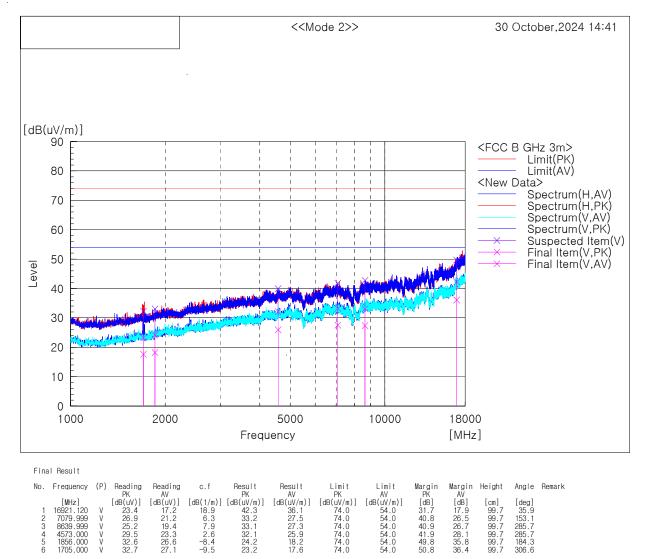
Frequencies above 1 GHz



Note 1) We have also tested from 18GHz to 40GHz and found no emissions

Note 2) Receiving antenna polarization : Horizontal, Vertical Test Distance : 3 m, Antenna Height : 1 to 4 meters Level (PK and/or CAV) = Reading (PK and/or CAV) + Corr. (Antenna Factor + Cable Loss - Amp. Gain) Margin (PK and/or CAV) = Limit – Level (PK and/or CAV) PK = Peak, CAV = CISPR-Average, Corr. = Correction Factor

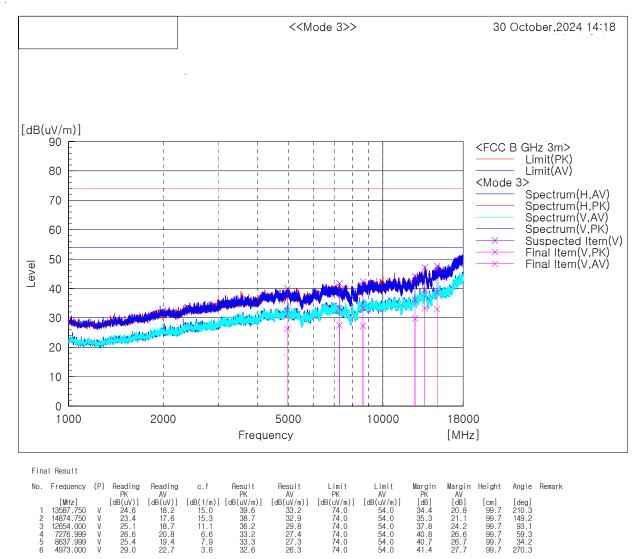
Frequencies above 1 GHz



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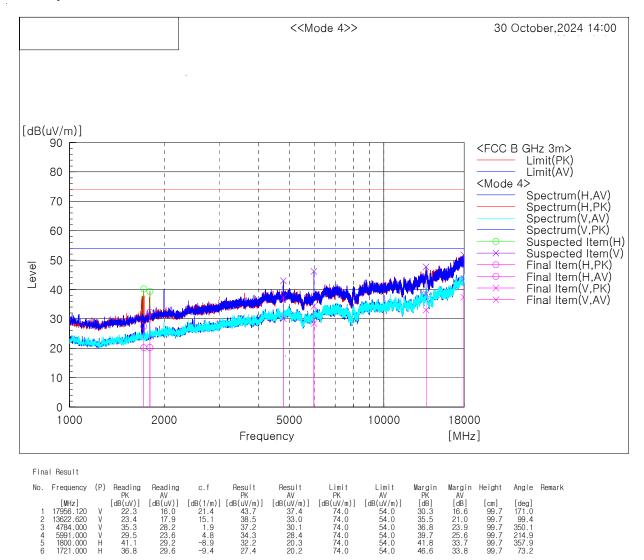
Frequencies above 1 GHz



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Frequencies above 1 GHz



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Notes:

1. All modes of operation were investigated and the worst-case emissions are reported.

2. Radiated emissions were measured from above 1GHz to ensure that the provisions of 15.33(b)(1) are satisfied with respect to the upper frequency scanning range.

3. The radiated limits for unintentional radiators at a distance of 3 meters are used in the table above, as specified in 15.109(a).

4. Measurements are made using a CISPR quasi-peak detector with a 100kHz resolution bandwidth. Above 1GHz, peak measurements are made using a peak detector with a resolution bandwidth of 1MHz and a video bandwidth of 3MHz and average measurements are made with a peak detector using a resolution bandwidth of 1MHz and a video bandwidth of 3MHz.

5. Calibrated linearly polarized broadband and horn antenna were used for measurements below and above 1GHz, respectively. For measurements made below 1GHz, the results recorded using the broadband antenna are known to correlate with the results obtained by using a tuned dipole with an acceptable degree of accuracy.

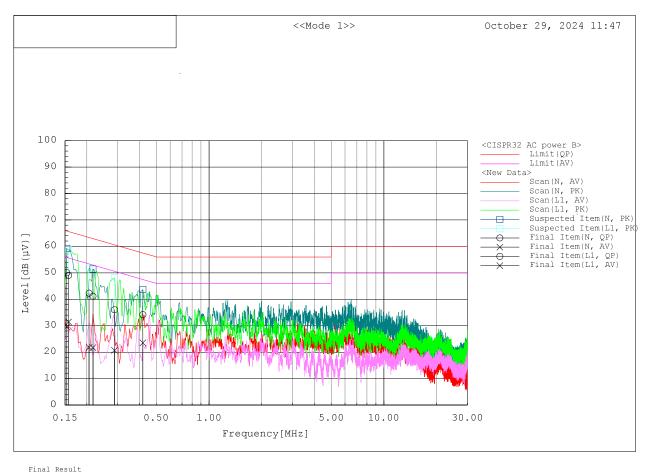
6.3 Conducted disturbance

The EUT was connected to the Desk-Top Computer which was powered from one LISN for the measurements. The support equipment power cables were connected to a second LISN.

Both conducted lines are measured in Quasi-Peak and CISPR-Average mode, including the worst-case data points for each tested configuration. The EUT measured in accordance with the methods described in standards.

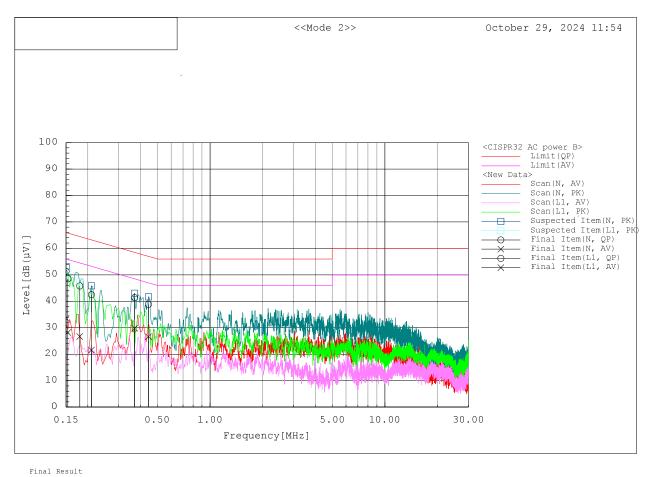
Limits for conducted disturbance at the mains ports of Class B ITE

Frequency range Limits	Resolution Bandwidth	Limits [dB(µV)]								
[MHz]	[kHz]	Quasi-peak	Average							
0,15 to 0,50	9	66 to 56	56 to 46							
0,50 to 5	9	56	46							
5 to 30	9	60	50							
NOTE 1 The lower limit shall apply at the transition frequency. NOTE 2 The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.										



No.	Frequency [MHz]	Line	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit - QP [dB(µV)] [dB(µ	Limit AV IV)] [dB]	Margin QP [dB]	Margin AV	Remark
1	0.154	N	40.3	19.8	9.8	50.1	29.6	65.8	55.8	15.7	26.2	
2	0.157	L1	39.2	21.5	9.9	49.1	31.4	65.6	55.6	16.5	24.2	
3	0.206	L1	32.3	11.8	10.0	42.3	21.8	63.4	53.4	21.1	31.6	
4	0.217	N	31.2	11.7	10.0	41.2	21.7	62.9	52.9	21.7	31.2	
5	0.288	L1	26.1	10.8	9.9	36.0	20.7	60.6	50.6	24.6	29.9	
6	0.419	Ν	24.1	13.4	10.1	34.2	23.5	57.5	47.5	23.3	24.0	

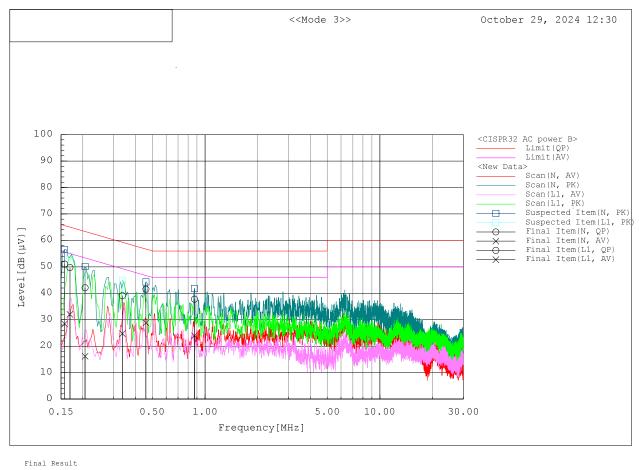
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV) QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor.



No.	Frequency [MHz]	Line	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit - QP [dB(µV)] [dB(µ	Limit AV N)] [dB]	Margin QP [dB]	Margin AV	Remark
1	0.150	N	41.6	23.8	9.8	51.4	33.6	66.0	56.0	14.6	22.4	
2	0.154	L1	38.6	18.3	9.9	48.5	28.2	65.8	55.8	17.3	27.6	
3	0.180	L1	35.8	16.7	10.0	45.8	26.7	64.5	54.5	18.7	27.8	
4	0.210	N	32.4	11.4	10.1	42.5	21.5	63.2	53.2	20.7	31.7	
5	0.370	Ν	31.3	19.7	10.1	41.4	29.8	58.5	48.5	17.1	18.7	
6	0.445	Ν	28.7	16.5	10.1	38.8	26.6	57.0	47.0	18.2	20.4	

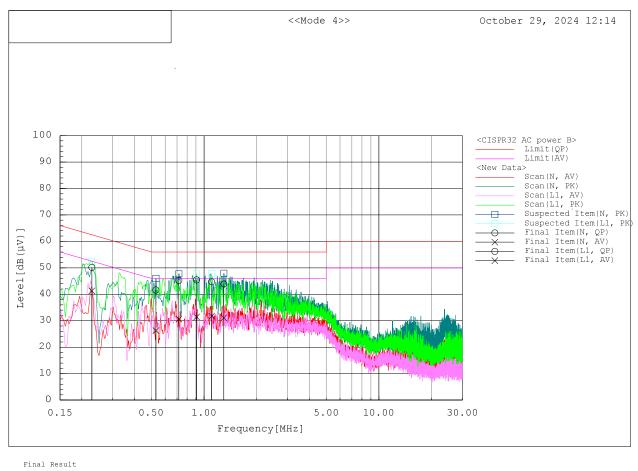
Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV) QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor.

Operating Mode 3



No.	Frequency [MHz]	Line	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit - QP [dB(µV)]	Limit AV [dB(µV)] [dB]	Margin QP [dB]	Margin AV	Remark
1	0.157	N	41.1	18.5	9.9	51.0	28.4	65.6	5 55.6	14.6	27.2	
2	0.169	L1	39.9	22.2	9.9	49.8	32.1	. 65.0) 55.0	15.2	22.9	
3	0.206	N	32.0	6.1	10.1	42.1	16.2	63.4	1 53.4	21.3	37.2	
4	0.337	L1	29.1	14.8	10.0	39.1	24.8	59.3	3 49.3	20.2	24.5	
5	0.460	N	31.5	18.7	10.1	41.6	28.8	56.7	46.7	15.1	17.9	
6	0.870	Ν	27.9	14.0	9.9	37.8	23.9) 56.0	46.0	18.2	22.1	

Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV) QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor.



No.	Frequency [MHz]	Line	Reading QP [dB(µV)]	Reading AV [dB(µV)]	c.f [dB]	Result QP [dB(µV)]	Result AV [dB(µV)]	Limit . QP [dB(µV)] [dH	Limit AV B(µV)] [dB]	Margin QP [dB]	Margin AV	Remark
1	0.228	L1	40.3	31.4	9.9	50.2	41.3	62.5	52.5	12.3	11.2	
2	0.531	N	31.6	16.3	10.0	41.6	26.3	3 56.0	46.0	14.4	19.7	
3	0.717	N	35.3	20.6	10.0	45.3	30.6	5 56.0	46.0	10.7	15.4	
4	0.907	L1	35.6	21.5	9.9	45.5	31.4	1 56.0	46.0	10.5	14.6	
5	1.105	L1	34.8	21.9	9.9	44.7	31.8	3 56.0	46.0	11.3	14.2	
6	1.299	Ν	34.0	21.2	9.9	43.9	31.1	L 56.0	46.0	12.1	14.9	

Note 1) Two graphs measured for both Live(L1) and Neutral(N) of the LISN are combined into one graph Note 2) Level (QP and/or CAV) = Meter Reading (QP and/or CAV) + Corr. (LISN Insertion Loss + Cable Loss) Margin (QP and/or CAV) = Limit – Level (QP and/or CAV) QP = Quasi-Peak, CAV = CISPR-Average, Corr. = Correction Factor.

Notes:

- 1. All modes of operation, were investigated and the worst-case emissions are reported.
- 2. The limit for Class B device(s) from 150kHz to 30MHz are specified in Section 15.207 of the Title
- 47 CFR.
- 3. Traces shown in plot are made using a peak detector.
- 4. Deviations to the Specifications: None.

7. CONCLUSION

The data collected relate only the item(s) tested and show that the **SC-53F** has been tested to comply with the requirements specified §15.107 and §15.109 of the FCC Rules.

--- End of Report ---