



FCC PART 15B, CLASS B

TEST REPORT

For

Grandstream Networks, Inc.

126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

FCC ID: YZZHT802V1

Report Type: Original Report	Product Type: Analog Telephone Adapter
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Report Number: SZ1210419-12377E-EM-00	
Report Date: 2021-05-21 Jason Xiao	
Reviewed By: EMC Engineer	<i>Jason Xiao</i>
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Product	Analog Telephone Adapter
Tested Model	HT802
Multiple Model	HT801
Model Differences	Refer to the DoS letter
Voltage Range	DC 5V from adapter
Highest operating frequency	400MHz
Date of Test	2021-05-08 to 2021-05-11
Sample number	SZ1210419-12377E-EM-S1(Assigned by BACL, Shenzhen)
Received date	2021-04-19
Sample/EUT Status	Good condition
Adapter 1 information	Model: GQ06-050100-ZU Input: AC100-240V~50/60Hz, 0.3A Max Output: DC 5.0V, 1.0A
Adapter 2 information	Model: F06US0500100A Input: AC100-240V,50/60Hz, 0.2A max Output: DC 5V ,1A
Adapter 3 information	Model: DSA-6PFG-05 FUS 050100 Input: AC100-240V~50/60Hz, 0.2A Output: DC 5.0V,1.0A ,5.0W
Applicant	Grandstream Networks, Inc.
Applicant Address	126 Brookline Ave, 3rd Floor Boston, MA 02215, USA
Manufacturer	Grandstream Networks, Inc.
Manufacturer Address	126 Brookline Ave, 3rd Floor Boston, MA 02215, USA

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A, B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters. Each test item follows test standards and with no deviation.

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will be taken into consideration for the test data recorded in the report

Parameter		uncertainty
Conducted Emissions		±1.95dB
Radiated Emissions	Below 1GHz	±4.75dB
	Above 1GHz	±4.88dB

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

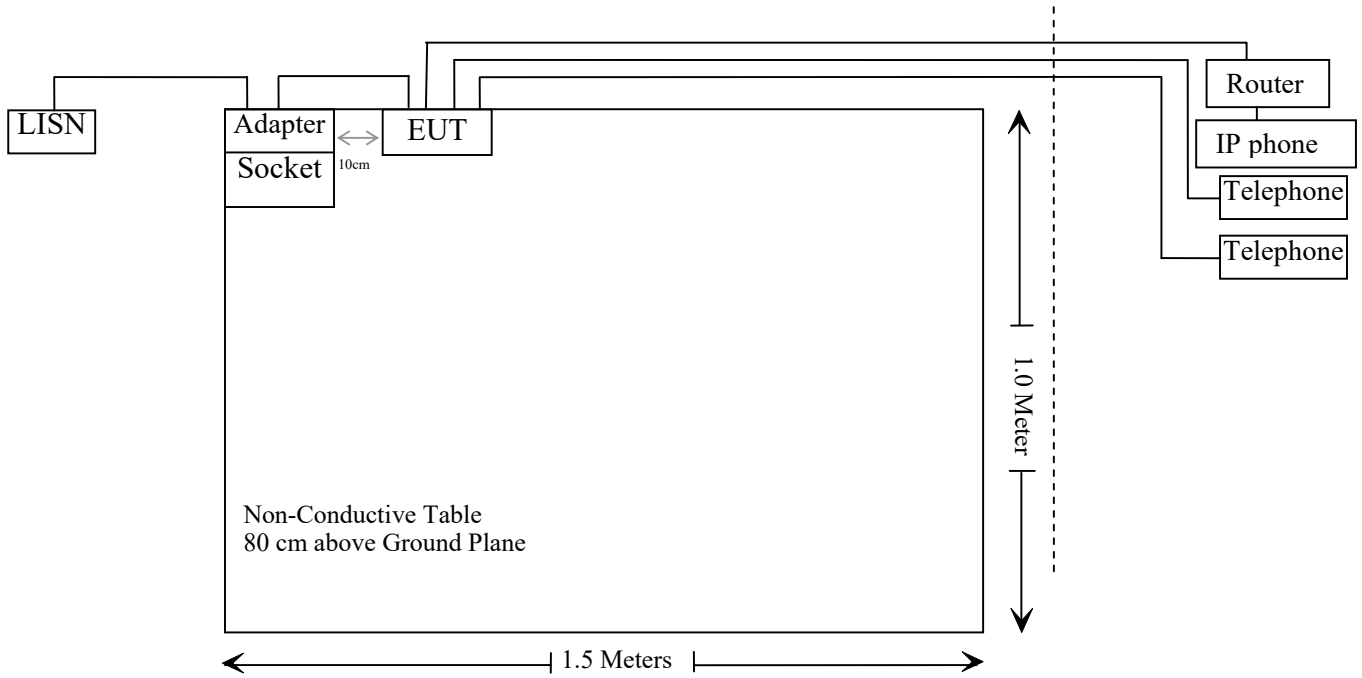
Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Kinhao	Telephone	KT86AS	KT86AS
Yealink	IP hone	Unknown	Unknown
kinhao	Telephone	KT86AS	KT86AS

External I/O Cable

Cable Description	Length (m)	From/Port	To
Unshielded Un-Detachable AC Cable	1.0	Socket	LISN
Unshielded Un-Detachable DC Cable	1.0	EUT	Adapter
Unshielded Detachable RJ45 Cable	1.5	EUT	Router
Unshielded Detachable RJ45 Cable	1.5	Router	IP Phone
Unshielded Detachable RJ11 Cable	8.0	EUT	Telephone

Block Diagram of Test Setup



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliant
§15.109	Radiated Spurious Emissions	Compliant

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
AC Line Conducted Emission Test					
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2020/08/04	2021/08/03
Rohde & Schwarz	LISN	ENV216	101613	2020/08/04	2021/08/03
Rohde & Schwarz	Transient Limitor	ESH3Z2	DE25985	2020/11/29	2021/11/28
Unknown	CE Cable	CE Cable	UF A210B-1-0720-504504	2020/11/29	2021/11/28
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
Radiated Emission Test					
R&S	EMI Test Receiver	ESR3	102455	2020/08/04	2021/08/03
Sonoma instrument	Pre-amplifier	310 N	186238	2020/08/04	2021/08/03
Sunol Sciences	Broadband Antenna	JB1	A040904-2	2020/12/22	2023/12/21
Unknown	Cable 2	RF Cable 2	F-03-EM197	2020/11/29	2021/11/28
Unknown	Cable	Chamber Cable 4	EC-007	2020/11/29	2021/11/28
Rohde & Schwarz	Auto test software	EMC 32	V9.10	NCR	NCR
Rohde & Schwarz	Spectrum Analyzer	FSV40-N	102259	2020/08/04	2021/08/03
COM-POWER	Pre-amplifier	PA-122	181919	2020/11/29	2021/11/28
Sunol Sciences	Horn Antenna	3115	9107-3694	2021/01/15	2024/01/14
Insulted Wire Inc.	RF Cable	SPS-2503-3150	02222010	2020/11/29	2021/11/28
Unknown	RF Cable	W1101-EQ1 OUT	F-19-EM005	2020/11/29	2021/11/28

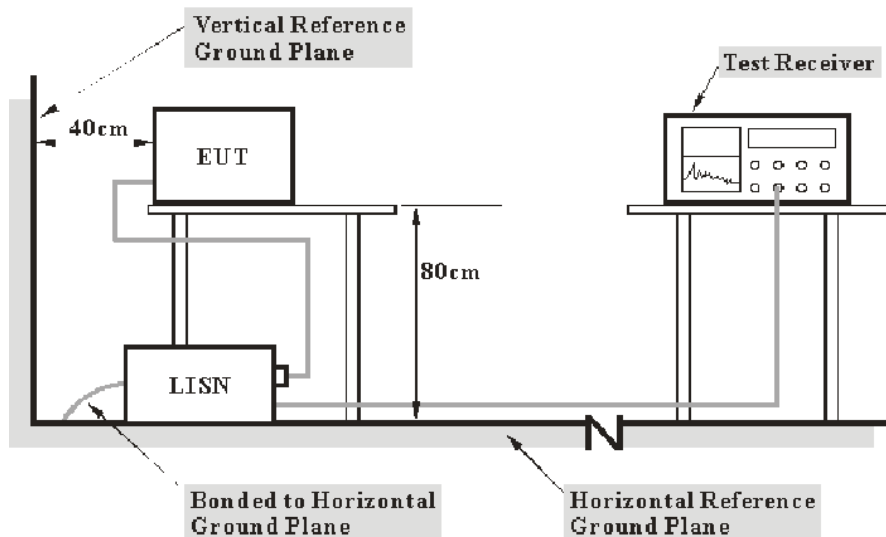
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the device was connected to the first LISN and the other relevant equipments were connected to the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data

Environmental Conditions

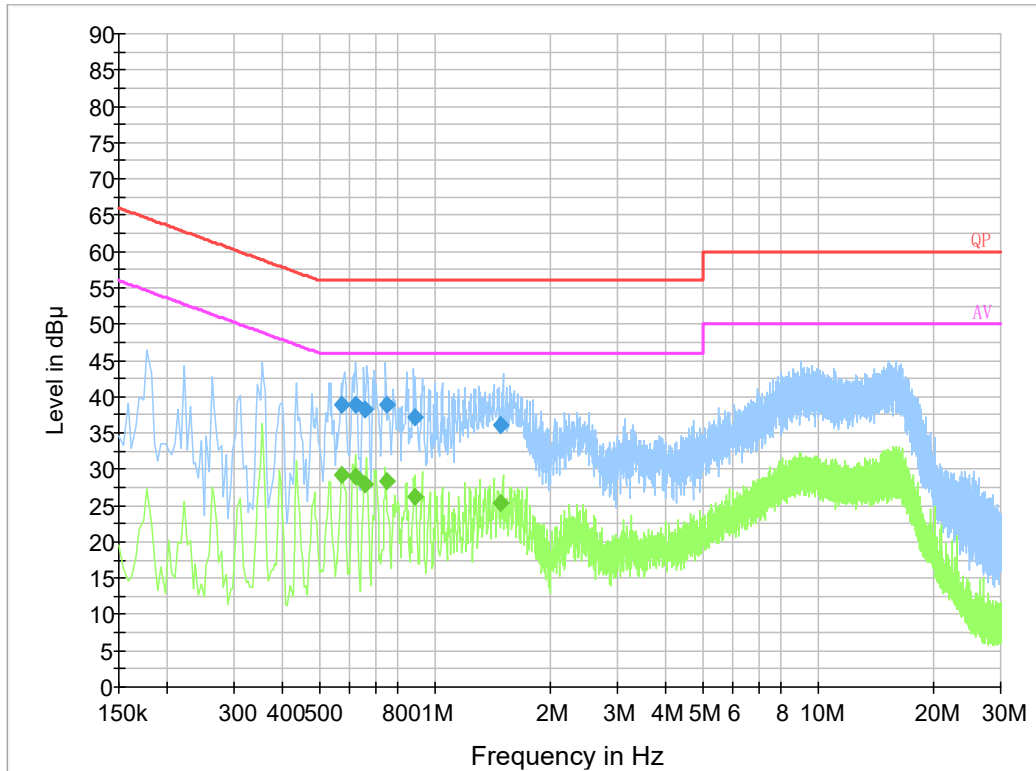
Temperature:	25 °C
Relative Humidity:	65 %
ATM Pressure:	101.0 kPa

The testing was performed by Haiguo Li on 2021-05-10.

EUT Operation Mode: Communicate

Adapter 1(GQ06-050100-ZU)

AC 120V/60 Hz, Line



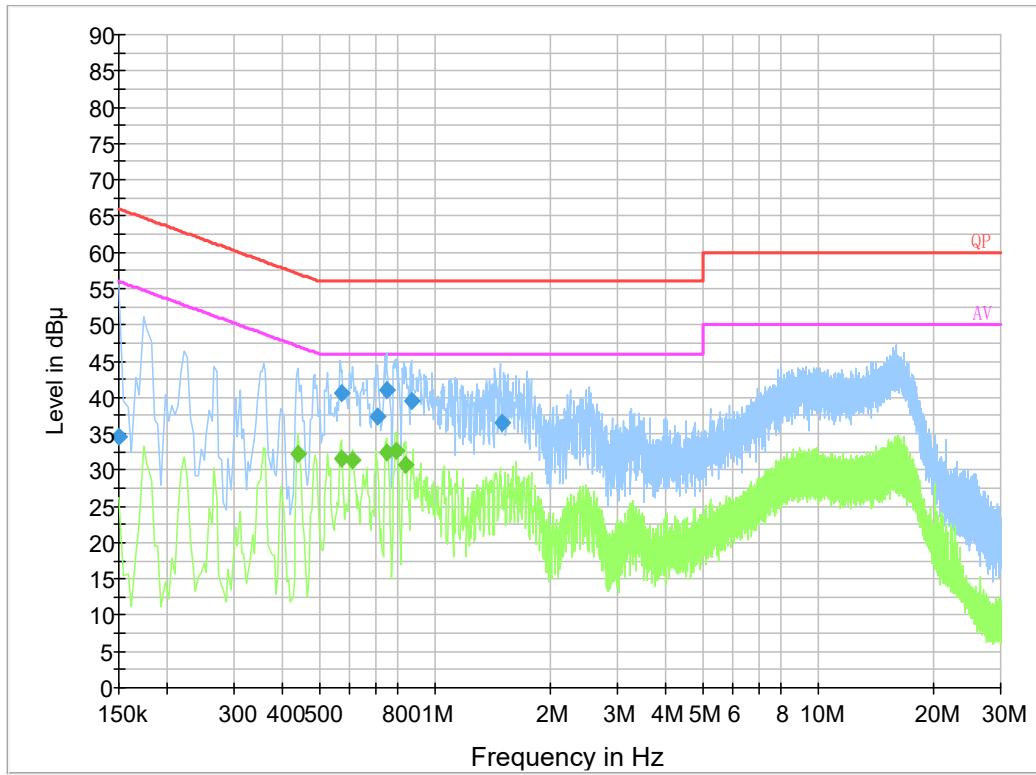
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.573270	38.8	9.000	L1	19.8	17.2	56.0
0.620670	38.9	9.000	L1	19.8	17.1	56.0
0.656010	38.2	9.000	L1	19.8	17.8	56.0
0.750810	39.0	9.000	L1	19.8	17.0	56.0
0.884770	37.1	9.000	L1	19.8	18.9	56.0
1.487350	36.2	9.000	L1	19.8	19.8	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.573270	29.2	9.000	L1	19.8	16.8	46.0
0.620670	29.0	9.000	L1	19.8	17.0	46.0
0.656010	27.9	9.000	L1	19.8	18.1	46.0
0.750810	28.4	9.000	L1	19.8	17.6	46.0
0.884770	26.2	9.000	L1	19.8	19.8	46.0
1.487350	25.4	9.000	L1	19.8	20.6	46.0

AC 120V/60 Hz, Neutral



Final Result 1

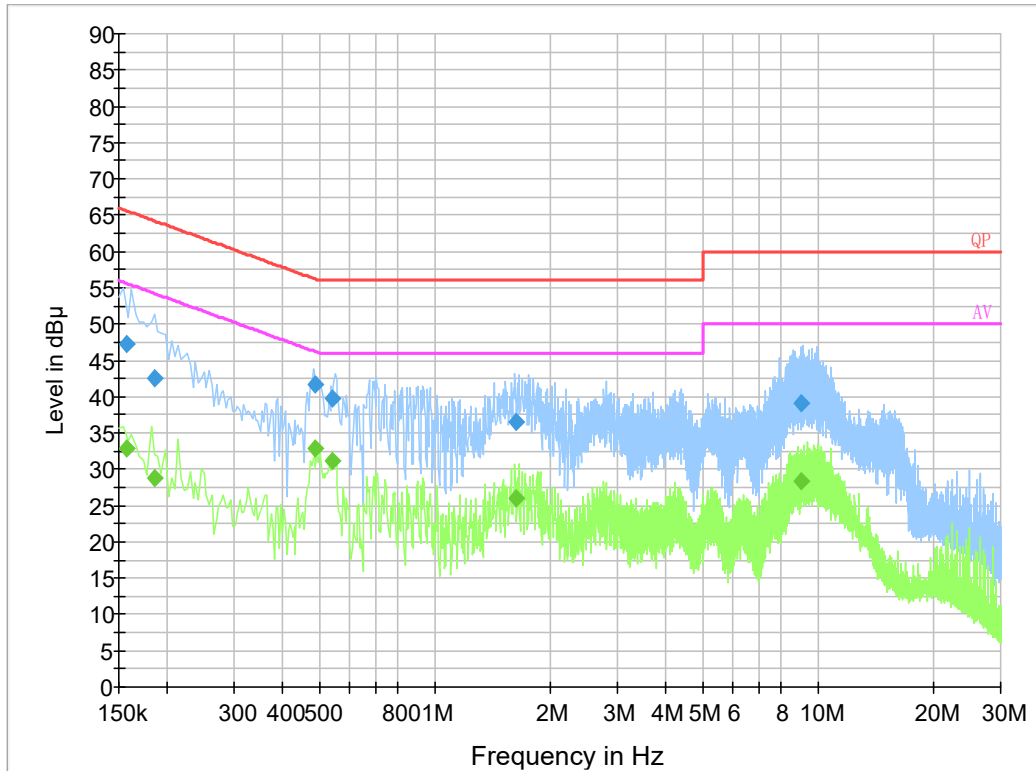
Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.150000	34.7	0.200	N	19.8	31.3	66.0
0.574490	40.6	9.000	N	19.8	15.4	56.0
0.711410	37.4	9.000	N	19.8	18.6	56.0
0.750750	40.9	9.000	N	19.8	15.1	56.0
0.872950	39.6	9.000	N	19.7	16.4	56.0
1.503770	36.5	9.000	N	19.8	19.5	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.442000	32.3	9.000	N	19.8	14.7	47.0
0.570000	31.6	9.000	N	19.8	14.4	46.0
0.610000	31.4	9.000	N	19.8	14.6	46.0
0.750000	32.4	9.000	N	19.8	13.6	46.0
0.794000	32.7	9.000	N	19.8	13.3	46.0
0.842000	30.6	9.000	N	19.8	15.4	46.0

Adapter 2(F06US0500100A)

AC 120V/60 Hz, Line



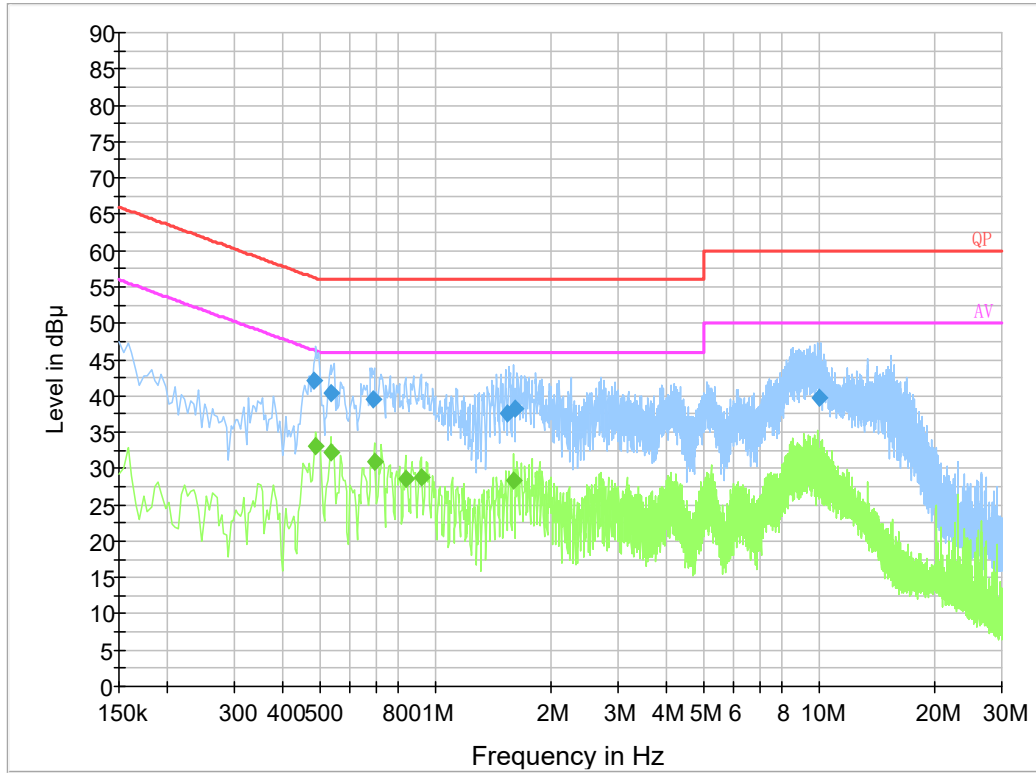
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.157500	47.3	9.000	L1	19.8	18.3	65.6
0.185500	42.6	9.000	L1	19.8	21.6	64.2
0.489230	41.7	9.000	L1	19.8	14.5	56.2
0.541750	39.8	9.000	L1	19.8	16.2	56.0
1.629670	36.5	9.000	L1	19.9	19.5	56.0
9.093170	39.1	9.000	L1	20.0	20.9	60.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.157500	32.9	9.000	L1	19.8	22.7	55.6
0.185500	28.7	9.000	L1	19.8	25.5	54.2
0.489230	32.8	9.000	L1	19.8	13.4	46.2
0.541750	31.1	9.000	L1	19.8	14.9	46.0
1.629670	26.1	9.000	L1	19.9	19.9	46.0
9.093170	28.3	9.000	L1	20.0	21.7	50.0

AC 120V/60 Hz, Neutral



Final Result 1

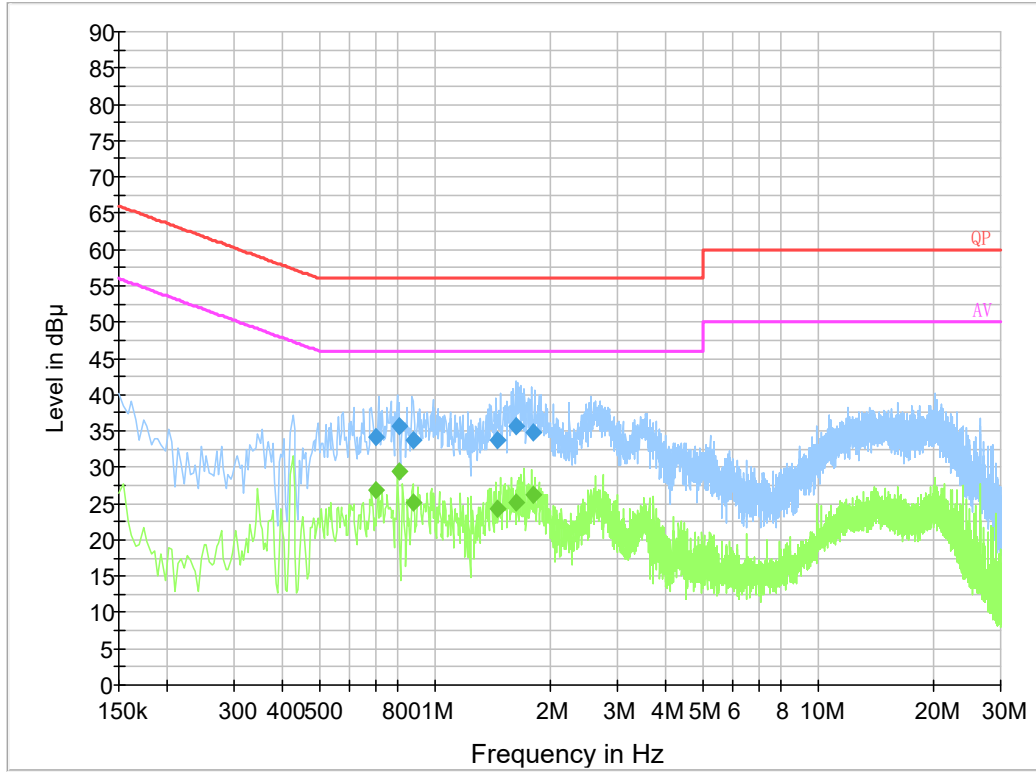
Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.482650	42.1	9.000	N	19.8	14.2	56.3
0.537810	40.4	9.000	N	19.8	15.6	56.0
0.687830	39.5	9.000	N	19.8	16.5	56.0
1.543170	37.5	9.000	N	19.8	18.5	56.0
1.609970	38.3	9.000	N	19.8	17.7	56.0
10.052930	39.8	9.000	N	20.0	20.2	60.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.490000	33.1	9.000	N	19.8	13.1	46.2
0.538000	32.2	9.000	N	19.8	13.8	46.0
0.694000	31.0	9.000	N	19.8	15.0	46.0
0.838000	28.6	9.000	N	19.8	17.4	46.0
0.918000	28.7	9.000	N	19.8	17.3	46.0
1.602000	28.3	9.000	N	19.8	17.7	46.0

Adapter 3(DSA-6PFG-05 FUS 050100)

AC 120V/60 Hz, Line



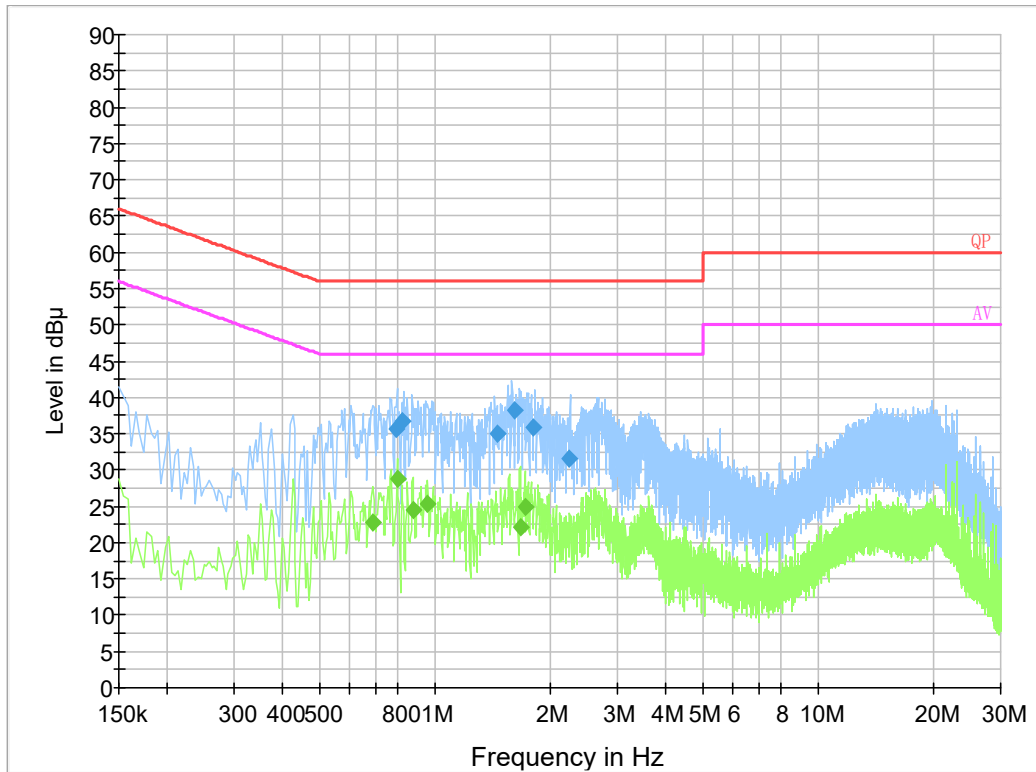
Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.703290	34.2	9.000	L1	19.8	21.8	56.0
0.806030	35.7	9.000	L1	19.8	20.3	56.0
0.880890	33.8	9.000	L1	19.8	22.2	56.0
1.463710	33.8	9.000	L1	19.8	22.2	56.0
1.637610	35.7	9.000	L1	19.9	20.3	56.0
1.803090	34.8	9.000	L1	19.9	21.2	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.703290	26.9	9.000	L1	19.8	19.1	46.0
0.806030	29.4	9.000	L1	19.8	16.6	46.0
0.880890	25.2	9.000	L1	19.8	20.8	46.0
1.463710	24.3	9.000	L1	19.8	21.7	46.0
1.637610	25.2	9.000	L1	19.9	20.8	46.0
1.803090	26.2	9.000	L1	19.9	19.8	46.0

AC 120V/60 Hz, Neutral



Final Result 1

Frequency (MHz)	QuasiPeak (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.794030	35.7	9.000	N	19.8	20.3	56.0
0.825550	36.7	9.000	N	19.8	19.3	56.0
1.459570	35.1	9.000	N	19.8	20.9	56.0
1.614090	38.3	9.000	N	19.8	17.7	56.0
1.814670	35.9	9.000	N	19.8	20.1	56.0
2.252130	31.5	9.000	N	19.8	24.5	56.0

Final Result 2

Frequency (MHz)	Average (dB µ V)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dB µ V)
0.690000	22.7	9.000	N	19.8	23.3	46.0
0.798000	28.7	9.000	N	19.8	17.3	46.0
0.878000	24.5	9.000	N	19.7	21.5	46.0
0.958000	25.4	9.000	N	19.8	20.6	46.0
1.674000	22.1	9.000	N	19.8	23.9	46.0
1.722000	25.0	9.000	N	19.8	21.0	46.0

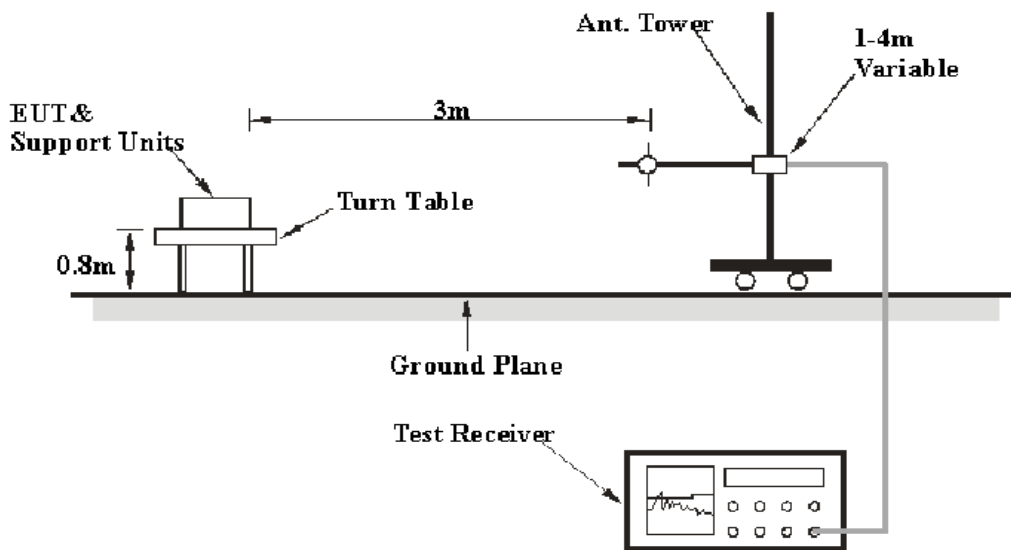
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

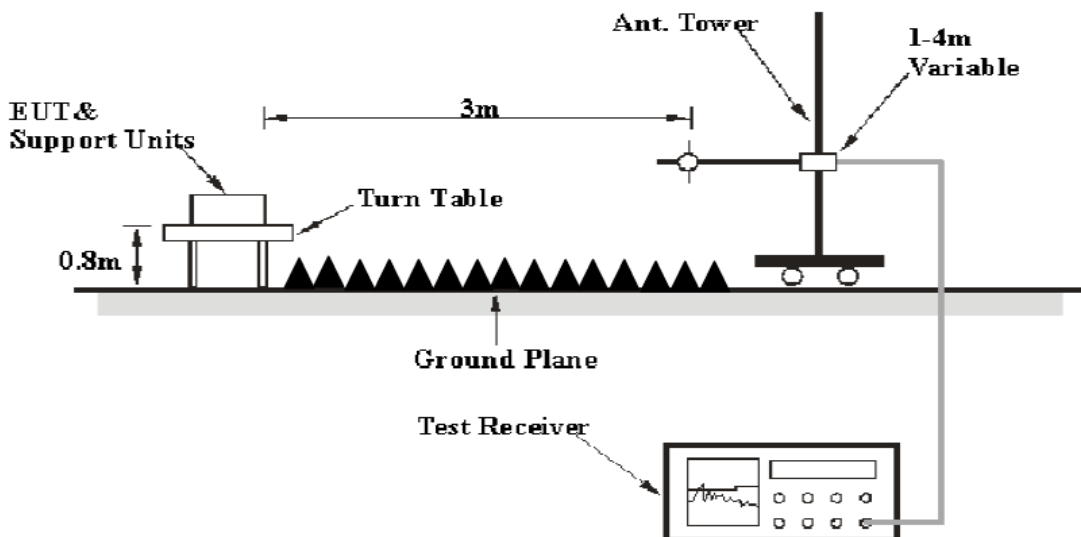
FCC §15.109

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
	1MHz	10 Hz	/	Ave.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data

Environmental Conditions

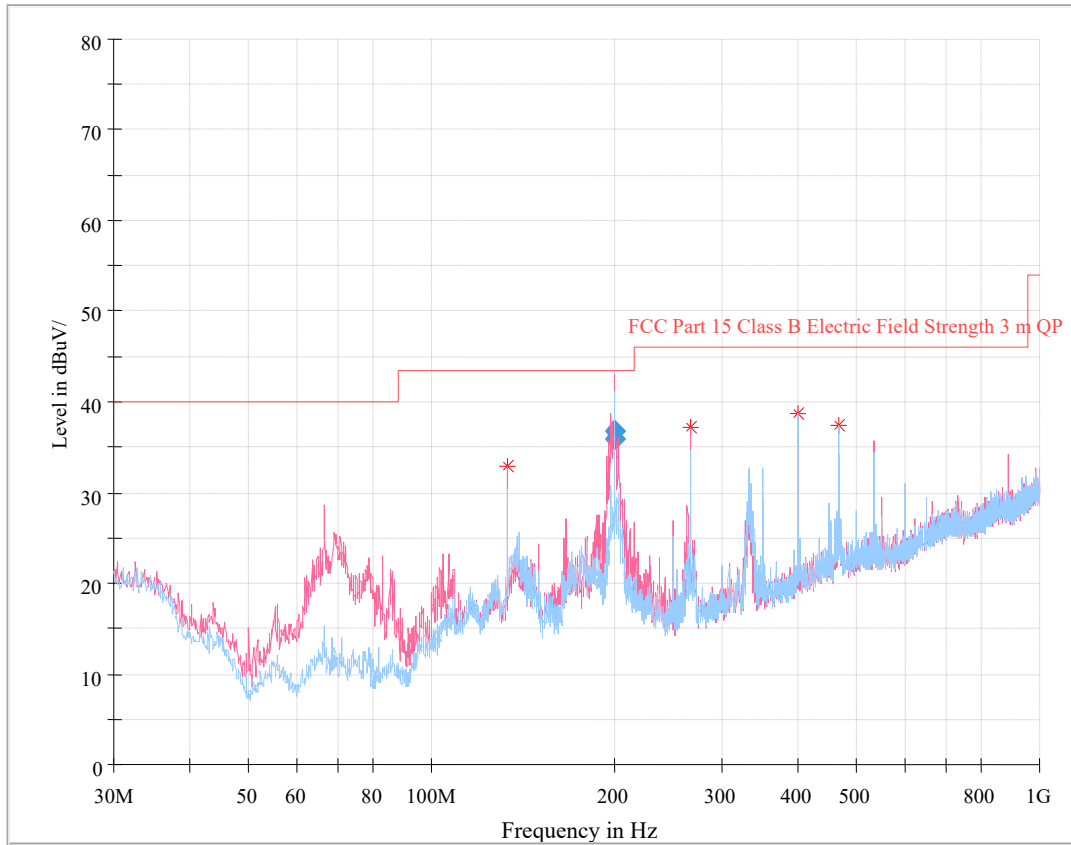
Temperature:	24~25.3 °C
Relative Humidity:	49~54 %
ATM Pressure:	100.9~101.0 kPa

The testing was performed by Harris He on 2021-05-11 for below 1GHz and Alan He on 2021-05-08 for above 1GHz.

EUT Operation Mode: Communicate

Adapter 1(GQ06-050100-ZU)

30 MHz – 1 GHz:



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
200.004125	35.82	43.50	7.68	173.0	V	201.0	-11.0
200.015625	36.71	43.50	6.79	110.0	V	217.0	-11.0

Critical Freqs

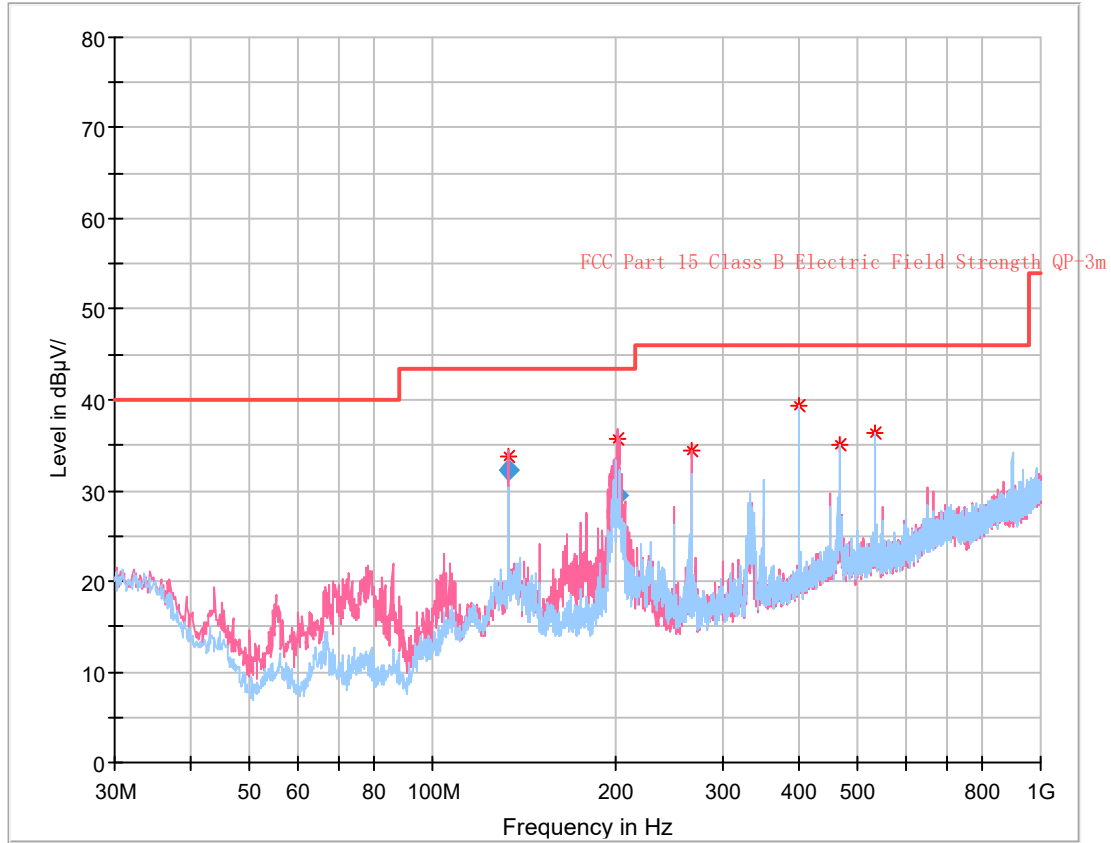
Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
133.305000	32.86	43.50	10.64	100.0	V	139.0	-10.4
266.680000	37.19	46.00	8.81	100.0	V	0.0	-11.2
399.933750	38.76	46.00	7.24	100.0	H	246.0	-7.4
466.621250	37.44	46.00	8.56	100.0	H	203.0	-5.4

1-2 GHz:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15B	
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
1139.27	49.61	PK	37	2.3	H	-5.43	44.18	74	29.82
1139.27	32.87	Ave.	37	2.3	H	-5.43	27.44	54	26.56
1139.27	50.62	PK	4	1.8	V	-5.43	45.19	74	28.81
1139.27	33.64	Ave.	4	1.8	V	-5.43	28.21	54	25.79
1263.45	47.75	PK	182	1.5	H	-4.51	43.24	74	30.76
1263.45	31.62	Ave.	182	1.5	H	-4.51	27.11	54	26.89
1263.45	52.51	PK	157	1.3	V	-4.51	48.00	74	26.00
1263.45	36.28	Ave.	157	1.3	V	-4.51	31.77	54	22.23

Adapter 2(F06US0500100A)

30 MHz – 1 GHz:



Final Result

Frequency (MHz)	QuasiPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
133.328250	32.31	43.50	11.19	111.0	V	177.0	-10.4
201.618125	29.45	43.50	14.05	110.0	V	218.0	-11.1

Critical Freqs

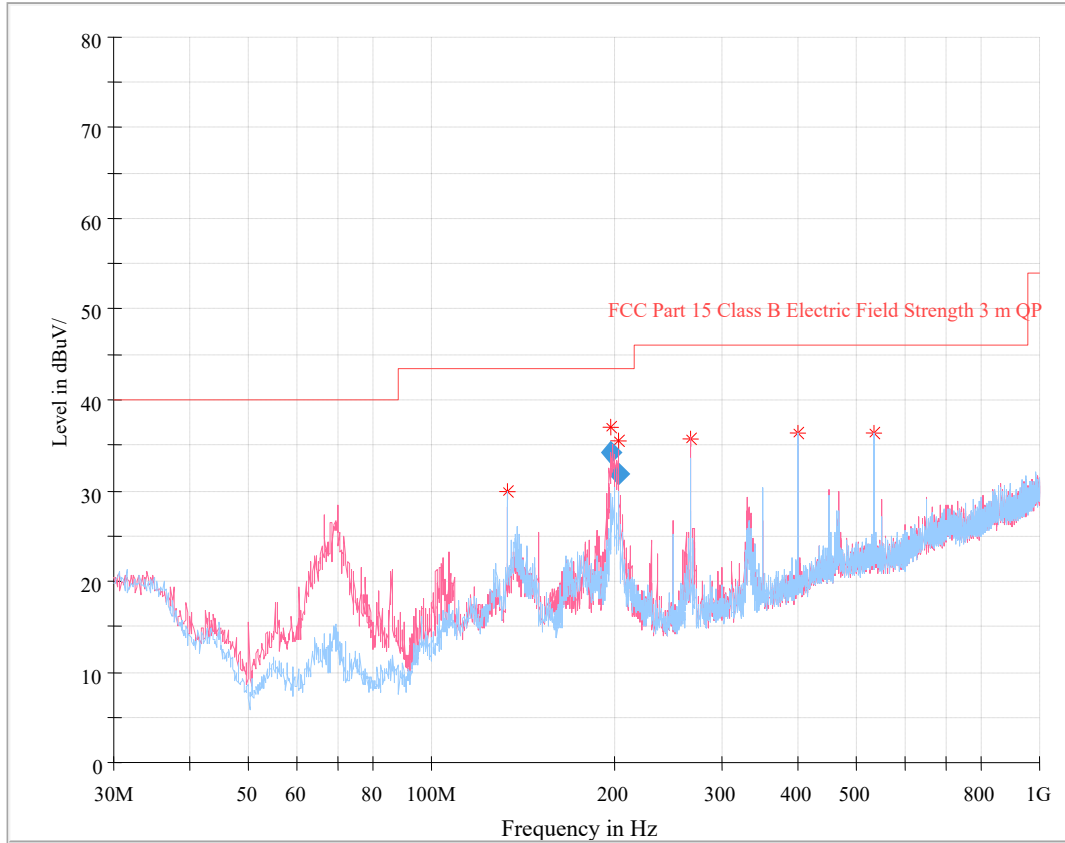
Frequency (MHz)	MaxPeak (dB µ V/m)	Limit (dB µ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
266.680000	34.40	47.00	12.60	300.0	V	2.0	-11.2
399.933750	39.37	47.00	9.63	100.0	H	265.0	-7.4
466.742500	34.95	47.00	14.05	100.0	H	252.0	-5.4
533.308750	36.38	47.00	12.62	100.0	H	97.0	-4.7

1-2 GHz:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dB μ V/m)	FCC Part 15B	
	Reading (dB μ V)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dB μ V/m)	Margin (dB)
1136.47	49.49	PK	183	1.0	H	-5.43	44.06	74	29.94
1136.47	32.87	Ave.	183	1.0	H	-5.43	27.44	54	26.56
1136.47	50.67	PK	7	2.0	V	-5.43	45.24	74	28.76
1136.47	33.72	Ave.	7	2.0	V	-5.43	28.29	54	25.71
1267.35	47.63	PK	307	2.1	H	-4.51	43.12	74	30.88
1267.35	31.57	Ave.	307	2.1	H	-4.51	27.06	54	26.94
1267.35	52.49	PK	241	1.9	V	-4.51	47.98	74	26.02
1267.35	36.25	Ave.	241	1.9	V	-4.51	31.74	54	22.26

Adapter 3(DSA-6PFG-05 FUS 050100)

30 MHz – 1 GHz:



Final Result

Frequency (MHz)	QuasiPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
197.698000	34.10	43.50	9.4	116.0	V	204.0	-11.3
202.651250	31.93	43.50	11.57	110.0	V	214.0	-11.1

Critical Freqs

Frequency (MHz)	MaxPeak (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Height (cm)	Pol	Azimuth (deg)	Corr. (dB)
133.305000	29.83	43.50	13.67	200.0	H	0.0	-10.4
266.680000	35.60	46.00	10.40	300.0	V	335.0	-11.2
399.933750	36.45	46.00	9.55	100.0	H	265.0	-7.4
533.430000	36.39	46.00	9.61	100.0	H	138.0	-4.7

1-2 GHz:

Frequency (MHz)	Measurement		Turntable Degree	Rx Antenna		Corrected Factor (dB/m)	Corrected Amplitude (dBµV/m)	FCC Part 15B	
	Reading (dBµV)	PK/QP/Ave.		Height (m)	Polar (H / V)			Limit (dBµV/m)	Margin (dB)
1133.58	49.62	PK	332	1.7	H	-5.43	44.19	74	29.81
1133.58	32.98	Ave.	332	1.7	H	-5.43	27.55	54	26.45
1133.58	50.93	PK	272	2.4	V	-5.43	45.50	74	28.50
1133.58	33.96	Ave.	272	2.4	V	-5.43	28.53	54	25.47
1264.36	47.88	PK	322	2.3	H	-4.51	43.37	74	30.63
1264.36	31.79	Ave.	322	2.3	H	-4.51	27.28	54	26.72
1264.36	52.71	PK	25	1.5	V	-4.51	48.20	74	25.80
1264.36	36.35	Ave.	25	1.5	V	-4.51	31.84	54	22.16

******* END OF REPORT *******