

FCC PART 15.247 TEST REPORT

For

CHENGDU JOUAV DA PENG TECH CO., LTD

6A-7F, Jingrong Innovation Hub, No. 200 5th TianFu St., Hi-tech District, Chengdu, 610000 China

Tested Model: GCS-202
FCC ID: 2AVXCGCS-202

Report Type:

Original Report

Product Type:

Ground Control Station

Report Number: RS200310003-00D

Report Date: 2020-08-04

Reviewed By: Sula Huang



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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

Applicant:	CHENGDU JOUAV DA PENG TECH CO., LTD
Tested Model:	GCS-202
Product Type:	Ground Control Station
Power Supply:	DC 12.6 V
RF Function:	SRD
Operating Band/Frequency:	2401.6-2477.6 MHz
Channel Number:	76
Channel Separation:	1 MHz and 2 MHz
Modulation Type:	GFSK
Antenna Type:	Omni Antenna
Maximum Antenna Gain:	3.0 dBi

**All measurement and test data in this report was gathered from production sample serial number: 20200310003. (Assigned by the BACL). The EUT supplied by the applicant was received on 2020-03-10.*

Objective

This test report is prepared on behalf of *CHENGDU JOUAV DA PENG TECH CO., LTD* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.207, 15.209 and 15.247 rules.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DTS submissions with FCC ID: 2AVXCGCS-202.
FCC Part 15.247 DSS submissions with FCC ID: 2AVXCCW-007.

Measurement Uncertainty

Item			Uncertainty
AC power line conducted emission			2.48 dB
Radiated Emission(Field Strength)	30MHz-200MHz	H	4.31 dB
		V	4.57 dB
	200MHz-1GHz	H	4.68 dB
		V	5.78 dB
	1GHz-6GHz		4.56 dB
	6GHz-18GHz		4.57 dB
	18GHz-40GHz		5.44 dB
RF output power, conducted			±0.65 dB
Occupied Bandwidth			±5 %
Power Spectrum Density, conducted			±2.5 dB
Humidity			±5 %
Temperature			±1 °C
Voltage(DC)			±0.4 %
Voltage(AC,<10kHz)			±1 %
Time			±1 %

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the corresponding inclusion factor K when the inclusion probability is about 95%.

Test Methodology

All measurements contained in this report were conducted with:

1. ANSI C63.10-2013 American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.
2. KDB558074 D01 DTS Meas Guidance v05r02.

Test Facility

The test site used by Bay Area Compliance Laboratories Corp. (Chengdu) to collect test data is located No.5040, Huilongwan Plaza, No. 1, Shawan Road, Jinniu District, Chengdu, Sichuan, China.

Bay Area Compliance Laboratories Corp. (Chengdu) lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4324.01) and the FCC designation No. CN1186 under the FCC KDB 974614 D01. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel list for FHSS (GFSK) Modulation:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2401.6	31	2431.6
2	2402.6	32	2432.6
3	2403.6	33	2433.6
4	2404.6	34	2434.6
5	2405.6	35	2435.6
6	2406.6	36	2436.6
7	2407.6	37	2437.6
8	2408.6	38	2438.6
9	2409.6	39	2439.6
10	2410.6	40	2440.6
11	2411.6	41	2441.6
12	2412.6	42	2442.6
13	2413.6	43	2443.6
14	2414.6	44	2444.6
15	2415.6	45	2445.6
16	2416.6	46	2446.6
17	2417.6	47	2447.6
18	2418.6	48	2448.6
19	2419.6	49	2449.6
20	2420.6	50	2450.6
21	2421.6	51	2451.6
22	2422.6	52	2452.6
23	2423.6	53	2453.6
24	2424.6	54	2454.6
25	2425.6	55	2455.6
26	2426.6	56	2456.6
27	2427.6	57	2457.6
28	2428.6	58	2458.6
29	2429.6	59	2459.6
30	2430.6	60	2461.6

Channel	Frequency (MHz)	Channel	Frequency (MHz)
61	2462.6	69	2470.6
62	2463.6	70	2471.6
63	2464.6	71	2472.6
64	2465.6	72	2473.6
65	2466.6	73	2474.6
66	2467.6	74	2475.6
67	2468.6	75	2476.6
68	2469.6	76	2477.6

EUT was tested with Channel 1, 39 and 76.

EUT Exercise Software

The EUT was tested in the engineering mode; EUT can be setup for fixed channel mode and hopping mode.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

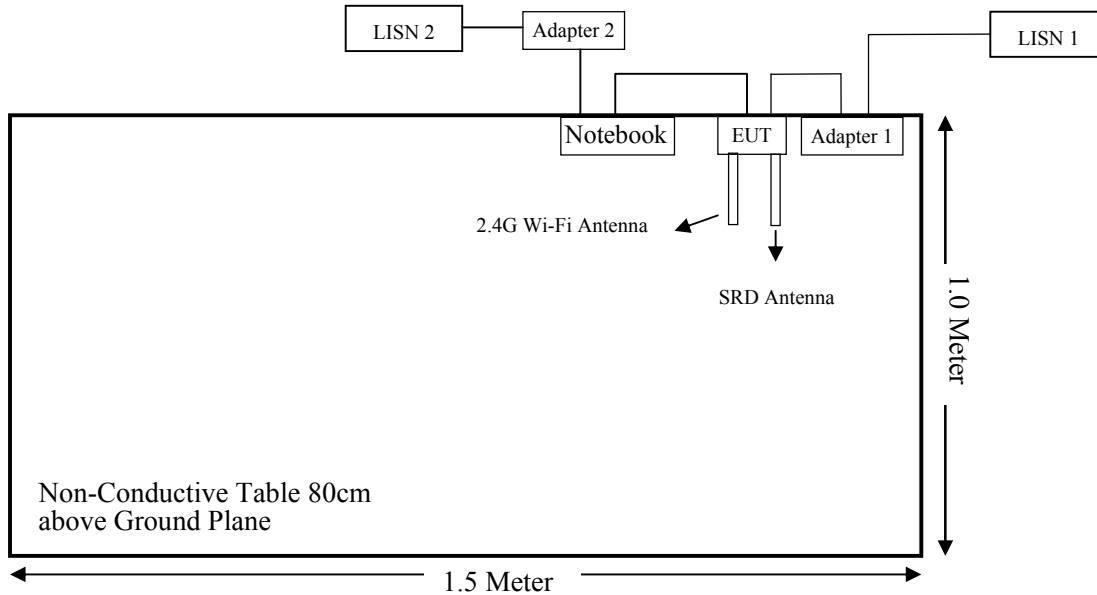
Manufacturer	Description	Model	Serial Number
JOUAV	2.4G Wi-Fi Antenna	/	/
JOUAV	SRD Antenna	/	/
Delippo	Adapter 1	B06120050	/
DELL	Notebook	E6410	3094742521
SHEN ZHEN TIANYIN ELECTRONICS CO.,LTD.	Adapter 2	SC24W-1202000U	/

External I/O Cable

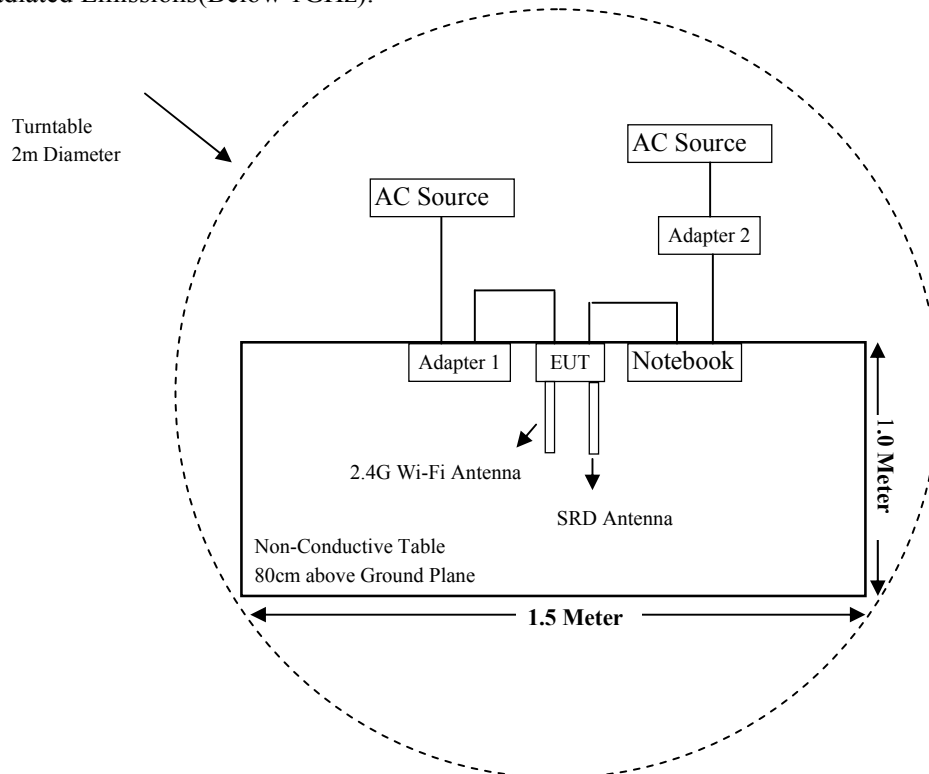
Cable Description	Length (m)	From Port	To
Cable	1.0	EUT	Adapter 1
Cable	1.5	EUT	Notebook
Cable	1.0	Notebook	Adapter 2
Cable	1.0	Adapter	LISN/AC Source

Block Diagram of Test Setup

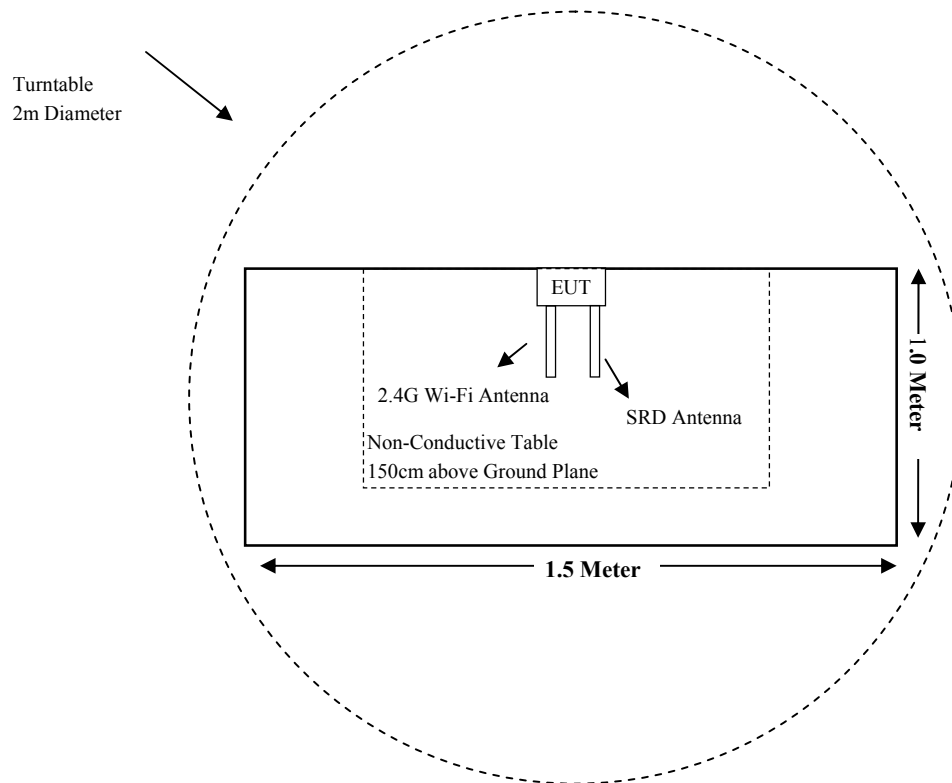
For Conducted Emissions:



For Radiated Emissions(Below 1GHz):



For Radiated Emissions(Above 1GHz):



SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §1.1310 & §2.1091	Maximum Permissible Exposure (MPE)	Compliant*
§15.203	Antenna Requirement	Compliant*
§15.207(a)	AC Line Conducted Emissions	Compliant
§15.205, §15.209 & §15.247(d)	Radiated Emissions	Compliant
§15.247(a)(1)	20 dB Emission Bandwidth	Compliant*
§15.247(a)(1)	Channel Separation Test	Compliant*
§15.247(a)(1)(iii)	Time of Occupancy (Dwell Time)	Compliant*
§15.247(a)(1)(iii)	Quantity of hopping channel Test	Compliant*
§15.247(b)(1)	Peak Output Power Measurement	Compliant*
§15.247(d)	Band edges	Compliant*

Compliant*: Refer to report No. RSHA200310003-00E.

Note: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Conducted Emission					
Rohde & Schwarz	EMI Test Receiver	ESCI	100028	2020-04-13	2021-04-12
Rohde & Schwarz	L.I.S.N.	ENV216	3560.6550.16	2020-01-13	2021-01-12
EMCO	L.I.S.N.	3810/2BR	9509-1102	2020-02-24	2021-02-23
HP	RF Limiter	11947A	3107A01270	2019-10-18	2020-10-17
Micro-coax	Conducted Cable	L-E003	000003	2019-08-05	2020-08-04
Rohde & Schwarz	EMC32	EMC32	V 8.52.0	NCR	NCR
Radiated Emission					
EMCT	Semi-Anechoic Chamber	966	001	2017-05-18	2022-05-17
SONOMA INSTRUMENT	Amplifier	310 N	186684	2019-09-06	2020-09-05
SUNOL SCIENCES	Broadband Antenna	JB3	A121808	2019-12-10	2022-12-09
INMET	Attenuator	18N-6dB	N/A	2019-10-17	2020-10-16
Rohde & Schwarz	EMI Test Receiver	ESR3	102456	2019-04-13	2020-04-12
Rohde & Schwarz	Spectrum Analyzer	FSU26	200835	2019-04-13	2020-04-12
EMCO	Horn Antenna	3115	2192	2019-09-25	2021-09-24
Mini-circuits	Pre-Amplifier	ZVA-183-S+	771001215	2019-09-20	2020-09-19
EM Electronics	Pre-Amplifier	EM18G40	060725	2019-07-24	2020-07-23
A.H. Systems, Inc	Horn Antenna	SAS-574	510	2019-09-02	2021-09-01
MICRO-TRONICS	2.4GHz Notch Filter	BRM50702	G396	2020-02-22	2021-02-21
Unknown	RF Cable (Below 1GHz)	L-E005	000005	2019-09-06	2020-09-05
Unknown	RF Cable (Below 1GHz)	T-E128	000128	2019-10-17	2020-10-16
UTiFLEX	RF Cable (Below 1GHz)	T-E237	233522-001	2019-07-19	2020-07-18
Unknown	RF Cable (Above 1GHz)	T-E069	000069	2019-07-24	2020-07-23
UTiFLEX	RF Cable (Above 1GHz)	T-E222	2551/2	2019-07-24	2020-07-23
UTiFLEX	RF Cable (Above 1GHz)	T-E210	1042	2019-07-24	2020-07-23
Rohde & Schwarz	EMC32	EMC32	V9.10.00	NCR	NCR

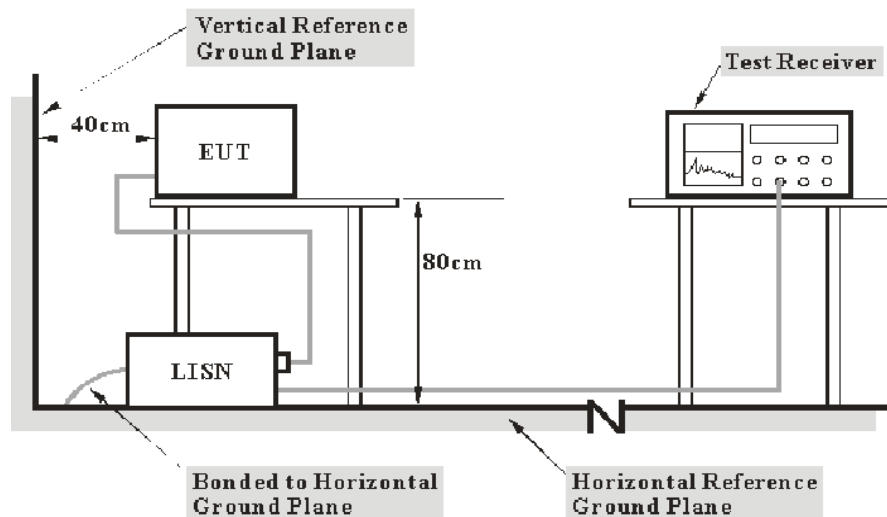
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Chengdu) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.207 (a) - AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207

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 setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

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 adapter was connected to the first L.I.S.N.

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 & Over Limit Calculation

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

$$\text{Corrected Factor (dB)} = \text{LISN VDF (dB)} + \text{Cable Loss (dB)} + \text{Transient Limiter Attenuation (dB)}$$

The “**Over Limit**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit of 7 dB means the emission is 7 dB above the limit. The equation for Over Limit calculation is as follows:

$$\text{Over Limit (dB)} = \text{Read level (dB}\mu\text{V)} + \text{Factor (dB)} - \text{Limit (dB}\mu\text{V)}$$

Test Data

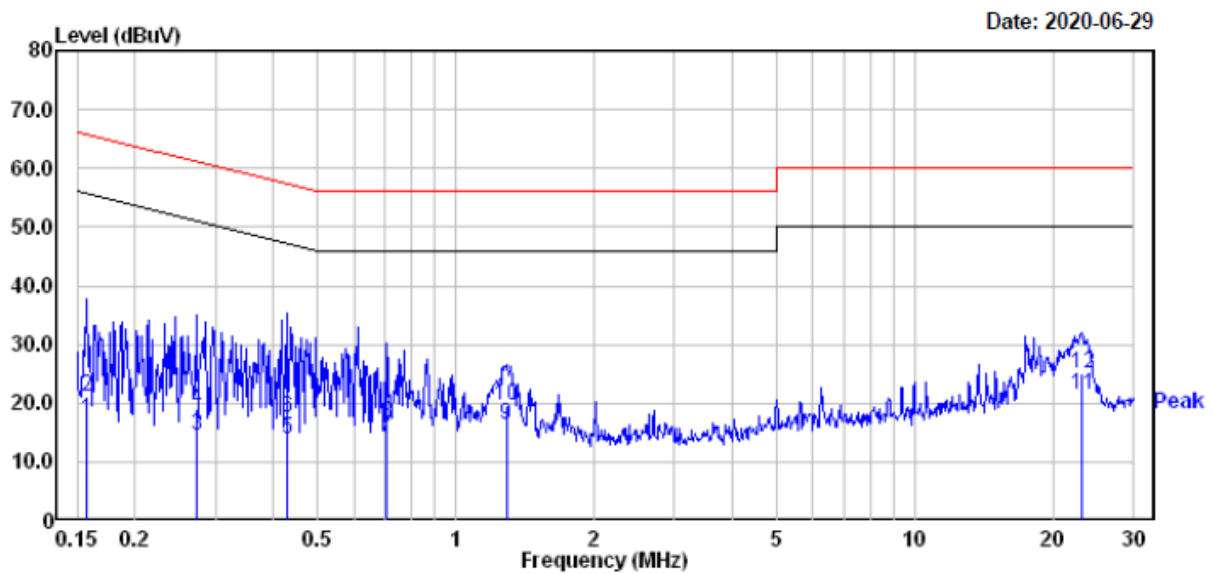
Environmental Conditions

Temperature:	24.2 °C
Relative Humidity:	51 %
ATM Pressure:	101.3 kPa

The testing was performed by Winfred Wang on 2020-06-29.

EUT operation mode: Transmitting in high channel (worst case)

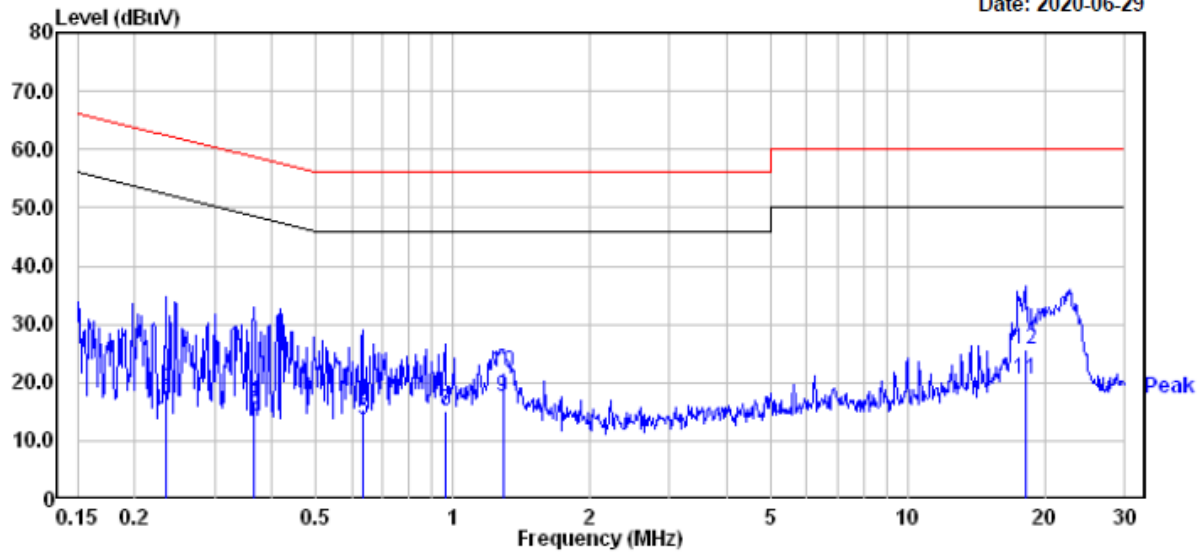
AC 120V/60 Hz, Line



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.157	-2.70	19.82	17.12	55.60	-38.48	Average
2	0.157	1.20	19.82	21.02	65.60	-44.58	QP
3	0.272	-5.20	19.82	14.62	51.07	-36.45	Average
4	0.272	-0.80	19.82	19.02	61.07	-42.05	QP
5	0.428	-5.90	19.75	13.85	47.29	-33.44	Average
6	0.428	-2.10	19.75	17.65	57.29	-39.64	QP
7	0.708	-5.70	19.75	14.05	46.00	-31.95	Average
8	0.708	-3.20	19.75	16.55	56.00	-39.45	QP
9	1.289	-3.60	19.82	16.22	46.00	-29.78	Average
10	1.289	-0.30	19.82	19.52	56.00	-36.48	QP
11	23.140	1.79	19.79	21.58	50.00	-28.42	Average
12	23.140	5.29	19.79	25.08	60.00	-34.92	QP

AC 120V/60 Hz, Neutral

Date: 2020-06-29



	Freq	Read Level	Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	
1	0.235	-4.90	19.82	14.92	52.26	-37.34	Average
2	0.235	-1.10	19.82	18.72	62.26	-43.54	QP
3	0.367	-5.70	19.78	14.08	48.56	-34.48	Average
4	0.367	-3.30	19.78	16.48	58.56	-42.08	QP
5	0.634	-6.30	19.75	13.45	46.00	-32.55	Average
6	0.634	-4.50	19.75	15.25	56.00	-40.75	QP
7	0.963	-4.80	19.79	14.99	46.00	-31.01	Average
8	0.963	-4.80	19.79	14.99	56.00	-41.01	QP
9	1.289	-2.20	19.82	17.62	46.00	-28.38	Average
10	1.289	1.80	19.82	21.62	56.00	-34.38	QP
11	18.135	0.60	19.84	20.44	50.00	-29.56	Average
12	18.135	5.80	19.84	25.64	60.00	-34.36	QP

Note:

1) Factor (dB) = LISN VDF (dB) + Cable Loss (dB) + Transient Limiter Attenuation (dB)

2) Over Limit (dB) = Read level (dBuV) + Factor (dB) - Limit (dBuV)

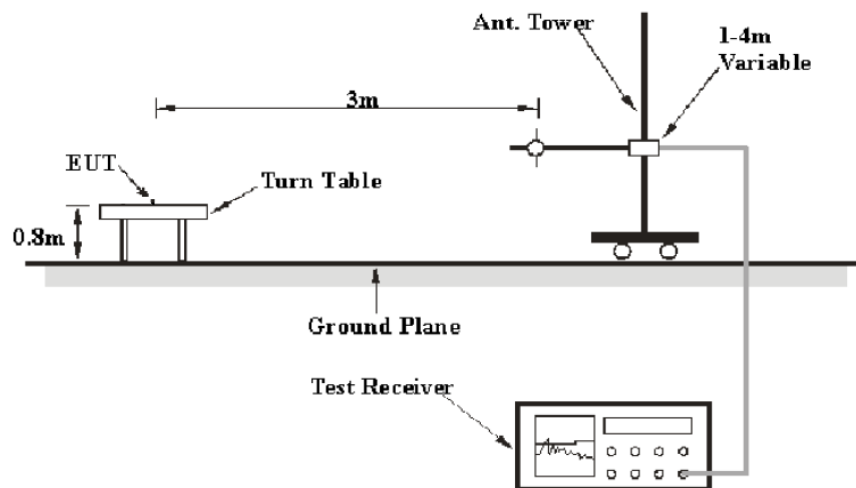
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

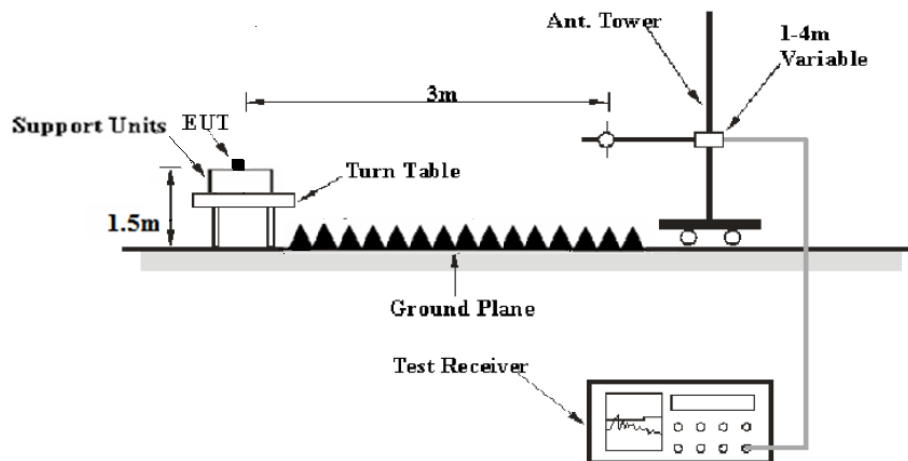
FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.247 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 & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

Frequency Range	RBW	Video B/W	IF B/W	Detector
30 MHz – 1000 MHz	120 kHz	300 kHz	120 kHz	QP
Above 1GHz	1MHz	3 MHz	/	PK
	1MHz	3 MHz	/	AV

Test Procedure

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

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz, peak and Average detection 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 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

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

Test Data**Environmental Conditions**

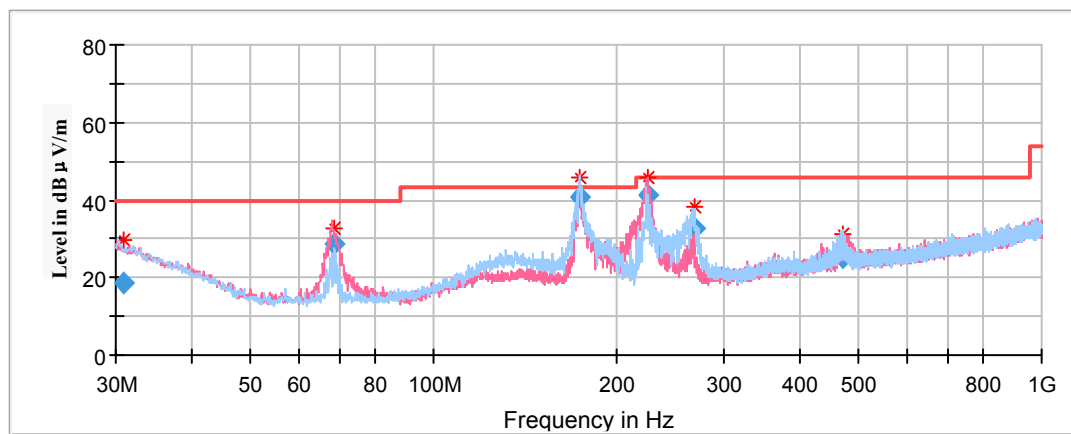
Temperature:	24.2 ~24.3 °C
Relative Humidity:	50~51 %
ATM Pressure:	101.2~101.3 kPa

The testing was performed by Winfred Wang from 2020-03-27 to 2020-03-31.

Spurious Emission Test:**30MHz-1GHz:**

Pre-Scan with low, middle and high channels in the X,Y and Z axes of orientation, the worst case **high channel in Z-axis of orientation** was recorded

EUT operation mode: Transmitting



Frequency (MHz)	Corrected Amplitude	Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	QuasiPeak (dBμV/m)	Height (cm)	Polar (H/V)				
30.819881	18.60	200.0	H	127.0	-4.5	40.00	21.40
68.564250	28.74	100.0	V	8.0	-17.4	40.00	11.26
173.574450	40.83	200.0	H	36.0	-13.3	43.50	2.67
224.309450	41.26	200.0	V	212.0	-12.2	46.00	4.74
268.105350	32.87	200.0	H	288.0	-11.5	46.00	13.13
470.031350	25.03	100.0	H	240.0	-6.9	46.00	20.97

1GHz-18GHz:

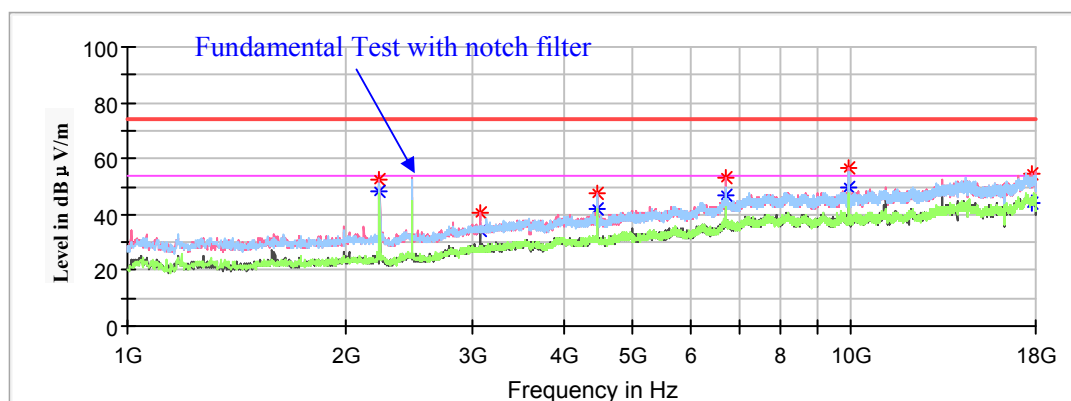
Pre-Scan with GFSK mode of operation in the X,Y and Z axes of orientation, the worst case is in **Z-axis of orientation** was recorded

Note:

1. This test was performed with the 2.4-2.5 GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)
 Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)
 Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Low Channel: 2401.6MHz

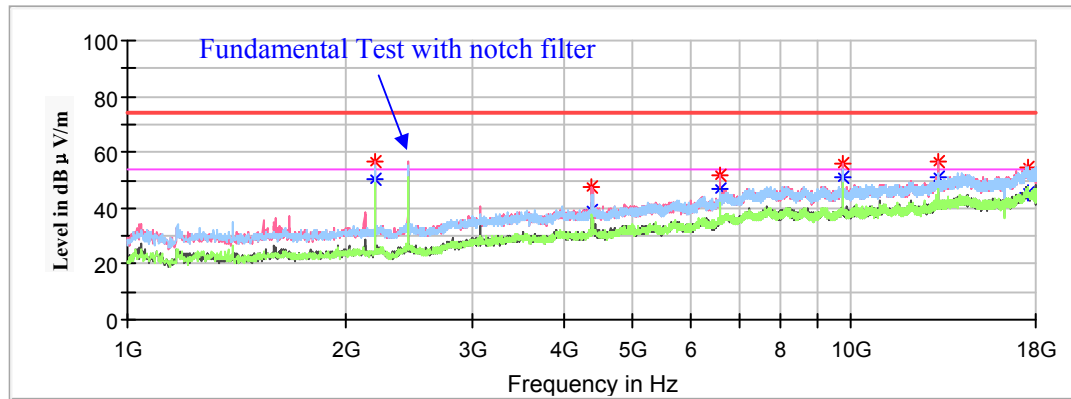
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
2232.500000	---	48.42	150.0	V	61.0	-13.5	54.00	5.58
2232.500000	52.19	---	150.0	V	61.0	-13.5	74.00	21.81
3070.600000	---	33.92	200.0	V	89.0	-9.9	54.00	20.08
3070.600000	40.24	---	200.0	V	89.0	-9.9	74.00	33.76
4466.300000	---	41.95	150.0	V	129.0	-6.3	54.00	12.05
4466.300000	47.21	---	150.0	V	129.0	-6.3	74.00	26.79
6700.100000	---	46.82	200.0	V	212.0	-0.7	54.00	7.18
6700.100000	52.81	---	200.0	V	212.0	-0.7	74.00	21.19
9909.700000	---	49.82	200.0	V	195.0	1.9	54.00	4.18
9909.700000	56.78	---	200.0	V	195.0	1.9	74.00	17.22
17779.000000	---	44.19	200.0	V	187.0	8.8	54.00	9.81
17779.000000	54.69	---	200.0	V	187.0	8.8	74.00	19.31

Middle Channel: 2439.6MHz

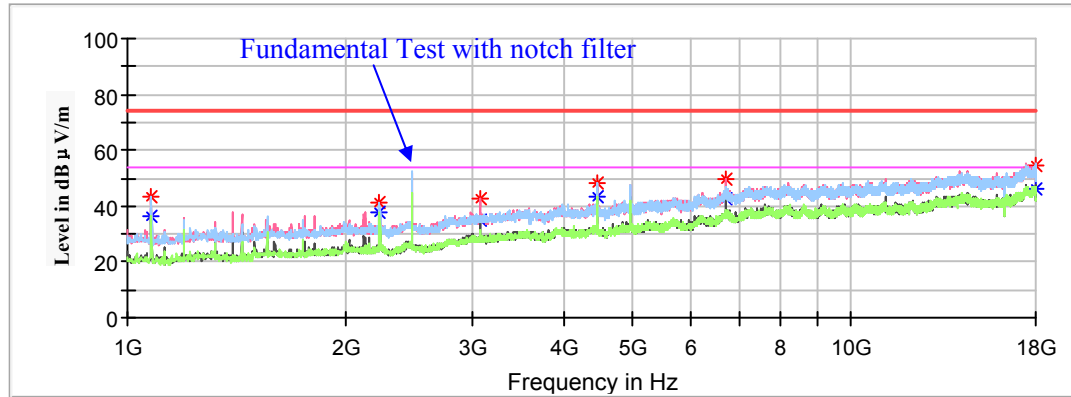
Full Spectrum



Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dB μ V/m)	Margin (dB)
	MaxPeak (dB μ V/m)	Average (dB μ V/m)	Height (cm)	Polar (H/V)				
2195.100000	---	50.20	200.0	V	59.0	-13.7	54.00	3.80
2195.100000	56.61	---	200.0	V	59.0	-13.7	74.00	17.39
4389.800000	---	38.97	200.0	V	42.0	-6.4	54.00	15.03
4389.800000	47.52	---	200.0	V	42.0	-6.4	74.00	26.48
6586.200000	---	46.69	150.0	V	202.0	-1.0	54.00	7.31
6586.200000	51.63	---	150.0	V	202.0	-1.0	74.00	22.37
9758.400000	---	51.40	150.0	V	9.0	2.0	54.00	2.60
9758.400000	56.26	---	150.0	V	9.0	2.0	74.00	17.74
13173.700000	---	51.14	200.0	V	12.0	5.4	54.00	2.86
13173.700000	56.44	---	200.0	V	12.0	5.4	74.00	17.56
17568.200000	---	45.72	200.0	V	219.0	8.9	54.00	8.28
17568.200000	54.78	---	200.0	V	219.0	8.9	74.00	19.22

High Channel: 2477.6MHz

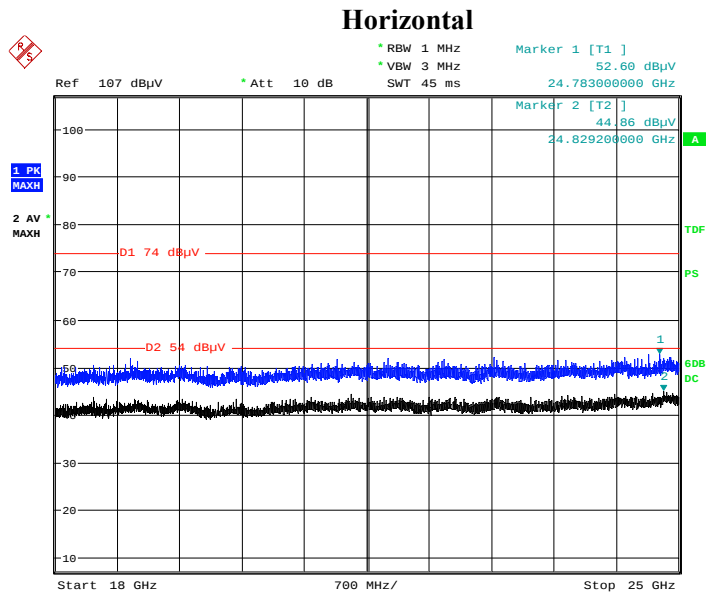
Full Spectrum



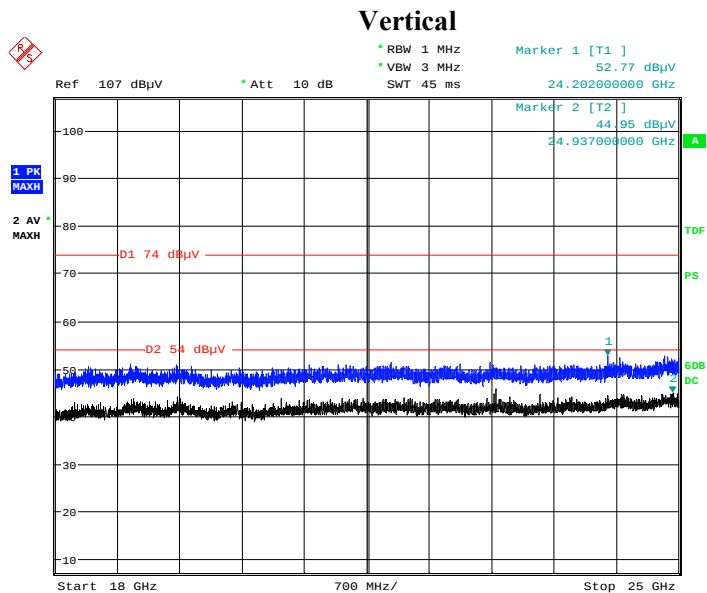
Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
1078.200000	---	36.54	150.0	H	245.0	-18.6	54.00	17.46
1078.200000	43.29	---	150.0	H	245.0	-18.6	74.00	30.71
2232.500000	---	37.85	200.0	H	111.0	-13.5	54.00	16.15
2232.500000	41.52	---	200.0	H	111.0	-13.5	74.00	32.48
3070.600000	---	34.88	200.0	V	95.0	-9.9	54.00	19.12
3070.600000	42.33	---	200.0	V	95.0	-9.9	74.00	31.67
4466.300000	---	43.12	200.0	H	111.0	-6.3	54.00	10.88
4466.300000	48.39	---	200.0	H	111.0	-6.3	74.00	25.61
6700.100000	---	42.87	150.0	V	2.0	-0.7	54.00	11.13
6700.100000	49.46	---	150.0	V	2.0	-0.7	74.00	24.54
17971.100000	---	46.34	200.0	V	110.0	8.8	54.00	7.66
17971.100000	54.65	---	200.0	V	110.0	8.8	74.00	19.35

18GHz-25GHz:

Pre-Scan with GFSK mode of operation in the X,Y and Z axes of orientation, the worst case is **high channel in Z-axis of orientation** was recorded



Date: 31.MAR.2020 13:42:53



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Restricted Bands Emissions:

Pre-Scan with GFSK mode of operation in the X,Y and Z axes of orientation, the worst case in Z-axis of orientation was recorded

Note:

1. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) – Amplifier Factor (dB)

Corrected Amplitude (dBμV/m) = Corrected Factor (dB/m) + Reading (dBμV)

Margin (dB) = Limit (dBμV/m) – Corrected Amplitude (dBμV/m)

Frequency (MHz)	Corrected Amplitude		Rx Antenna		Turntable Degree	Corrected Factor (dB/m)	Limit (dBμV/m)	Margin (dB)
	MaxPeak (dBμV/m)	Average (dBμV/m)	Height (cm)	Polar (H/V)				
Low Channel: 2401.6MHz								
2390.00	---	40.91	150.0	V	65.0	-2.9	54.00	13.09
2390.00	46.83	---	150.0	V	65.0	-2.9	74.00	27.17
High Channel: 2477.6MHz								
2483.50	---	40.74	200.0	V	124.0	-2.5	54.00	13.26
2483.50	47.80	---	200.0	V	124.0	-2.5	74.00	26.20

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