

FCC EMI TEST REPORT

FCC ID : PY7-502520
Equipment : GSM/WCDMA/LTE Phone with BT, DTS/UNII
a/b/g/n/ac, GPS and NFC
Brand Name : Sony
Applicant : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Manufacturer : Sony Mobile Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Standard : FCC 47 CFR FCC Part 15 Subpart B

The product was received on Jun. 10, 2019 and testing was started from Aug. 06, 2019 and completed on Aug. 12, 2019. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any agency of government.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.



Approved by: Jones Tsai

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issued Date
FC971021-01	01	Initial issue of report	Aug. 12, 2019



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	15.107	AC Conducted Emission	Pass	Under limit 7.28 dB at 0.157 MHz
3.2	15.109	Radiated Emission	Pass	Under limit 8.31 dB at 41.640 MHz

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Louis Wu

Report Producer: Wii Chang

1. General Description

1.1. Product Feature of Equipment Under Test

GSM/WCDMA/LTE, Bluetooth, DTS/UNII a/b/g/n/ac, NFC, and GNSS.

Product Specification subjective to this standard	
Antenna Type	WWAN: Loop Antenna WLAN: <Ant. 1>: Loop Antenna <Ant. 2>: Monopole Antenna Bluetooth: Loop Antenna GPS/Glonass/Galileo/ BDS: Loop Antenna NFC: Loop Antenna

EUT Information List			
HW Version	SW Version	IMEI	Performed Test Item
A	3.122	004402459579748	Conducted Emission Radiated Emission

Accessory List	
AC Adapter	Model Name : UCH32
	S/N:
	6218W30200140 (for radiated emission) 6218W30200197 (for conducted emission)
Earphone	Model Name.: MH750
	S/N : N/A
USB Cable	Model Name.: UCB24
	S/N : N/A
2 in 1 USB Audio Cable	Model Name.: EC270
	S/N : N/A
Car Charger	Model Name.: AN430
	S/N : 1728A9390002A70

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report. .
3. For other wireless features of this EUT, test report will be issued separately.

1.2. Modification of EUT

No modifications are made to the EUT during all test items.

1.3. Test Location

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978
Test Site No.	Sporton Site No.
	CO05-HY

Test Site	SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No.
	03CH10-HY

FCC Designation No.: TW1093 and TW1098

1.4. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR FCC Part 15 Subpart B
- ♦ ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2. Test Configuration of Equipment Under Test

2.1. Test Mode

The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

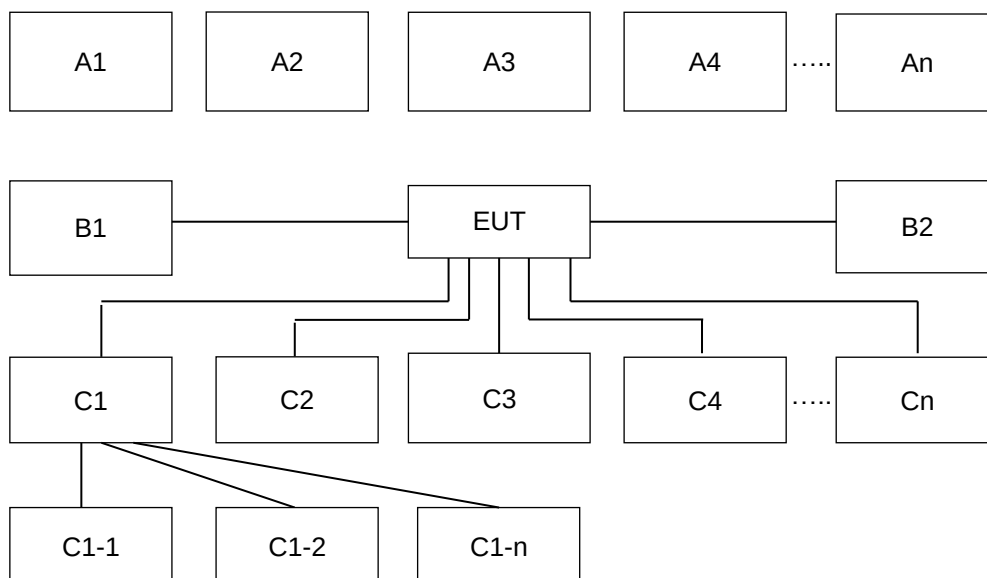
Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower).

For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

Test Items	Function Type
AC Conducted Emission	Mode 1 : GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + USB Cable (Charging from Adapter) + Battery
	Mode 2 : LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 3 : LTE Band 13 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + USB Cable (Charging from Adapter) + Battery
	Mode 4 : LTE Band 26 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Front) + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 5 : GSM850 (Low Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Rear) + USB Cable (Charging from Adapter) + Battery
	Mode 6 : GSM850 (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + NFC On + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 7 : Flight Mode + USB Cable (Data Link with Notebook) + Battery

Test Items	Function Type
Radiated Emissions	Mode 1 : GSM850 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + MPEG4 + USB Cable (Charging from Adapter) + Battery
	Mode 2 : LTE Band 12 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + MPEG4 + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 3 : LTE Band 13 (Middle Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + Camera (Rear) + USB Cable (Charging from Adapter) + Battery
	Mode 4 : LTE Band 26 (Middle Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + NFC On + USB Audio Cable + USB Cable (Charging from Adapter) + Battery + Earphone
	Mode 5 : GSM850 (Low Channel) Idle + Bluetooth Idle + WLAN (2.4GHz) Idle + GPS Rx + USB Audio Cable + USB Cable (Charging from Car Charger (12Vdc)) + Battery + Earphone
	Mode 6 : GSM850 (High Channel) Idle + Bluetooth Idle + WLAN (5GHz) Idle + Camera (Front) + USB Audio Cable + USB Cable (Charging from Car Charger (24Vdc)) + Battery + Earphone
	Mode 7 : Flight Mode + USB Cable (Data Link with Notebook) + Battery
Remark: 1. Data Linking with Notebook means data application transferred mode between EUT and Notebook. 2. For radiation emission after pre-scanned the cellular band between 30MHz ~ 960MHz (GSM850/WCDMA Band V/LTE Band 5/12/13/17/26), only the worst case for cellular band test data of this mode was reported. 3. For LTE band 12 and 17, wider operating range bandwidth covers narrower one.	

2.2. Connection Diagram of Test System



Conduction Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3	4	5	6	7
A1	BT Earphone	Bluetooth	X	X	X	X	X	X	
A2	System Simulator	GSM/UMTS/CDMA/WCDMA/LTE	X	X	X	X	X	X	
A3	GPS Station	GPS			X				
A4	AP router	WiFi	X	X	X	X	X	X	
No.	Power Source	Connection Type	1	2	3	4	5	6	7
B1	AC : 120V/60Hz	AC Power Cable	X	X	X	X	X	X	
B2	Power from system	AC Power Cable							X
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7
C1	Notebook	USB Cable							X
C1-1	Music Player	USB Cable to C1							X
C1-2	AP router	RJ-45 Cable to C1							X
C2	Earphone	Earphone jack		X		X		X	
C3	SD card	SD I/O interface without Cable	X	X	X	X	X	X	X

Radiation Test Setup									
No.	Wireless Station	Connection Type	Test Mode						
			1	2	3	4	5	6	7
A1	BT Earphone	Bluetooth	X	X	X	X	X	X	
A2	System Simulator	GSM/UMTS/CDMA/WCDMA/LTE	X	X	X	X	X	X	
A3	GPS Station	GPS					X		
A4	AP router	WiFi	X	X	X	X	X	X	
No.	Power Source	Connection Type	1	2	3	4	5	6	7
B1	AC : 120V/60Hz	AC Power Cable	X	X	X	X			
B2	DC : 12V/24V	DC Power Cable					X	X	
B3	Power from system	AC Power Cable							X
No.	Setup Peripherals	Connection Type	1	2	3	4	5	6	7
C1	Notebook	USB cable							X
C1-1	Music Player	USB Cable to C1							X
C1-2	AP router	RJ-45 Cable to C1							X
C2	Earphone	Earphone jack		X		X	X	X	
C3	SD card	SD I/O interface without cable	X	X	X	X	X	X	X
C4	Smart Phone	USB Cable					X	X	

2.3. Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
3.	GPS Station	Pendulum	GSG-54	N/A	N/A	Unshielded, 1.8 m
4.	Bluetooth Earphone	Sony	RD-0250	PY700A2029	N/A	N/A
5.	Bluetooth Earphone	Sony	SBH82D	PY7-RD0010	N/A	N/A
6.	WLAN AP	ASUS	RT-AC66U	MSQ-RTAC66U	N/A	Unshielded, 1.8 m
7.	Music Player	Apple	A1199	FCC DoC	Shielded, 1.0 m	N/A
8.	Notebook	DELL	Latitude E6320	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
9.	Notebook	DELL	Latitude E5480	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
10.	Car Battery	GS	65B24LS	FCC DoC	NA	NA
11.	SD Card	SanDisk	MicroSD HC	FCC DoC	N/A	N/A
12.	NFC Card	Metro Taipei	Easy Card	N/A	N/A	N/A
13.	Smart Phone	Sony	NA	NA	NA	NA

2.4. EUT Operation Test Setup

The EUT was in GSM and LTE idle mode during the testing. The EUT was synchronized with the BCCH, and had been continuous receiving mode by setting paging reorganization of the system simulator.

At the same time, the EUT was attached to the Bluetooth earphone or WLAN AP, and the following programs installed in the EUT were programmed during the test:

1. Data application is transferred between Laptop and EUT via USB cable.
2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
3. Execute "Video player" to play MPEG4 files.
4. Turn on camera to capture images.
5. Turn on NFC function
6. The data application (each file size is greater than 30Mbytes) is continuously transferred between the EUT and Notebook connected via USB cable, while Flight mode..

3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of emission (MHz)	Conducted 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.

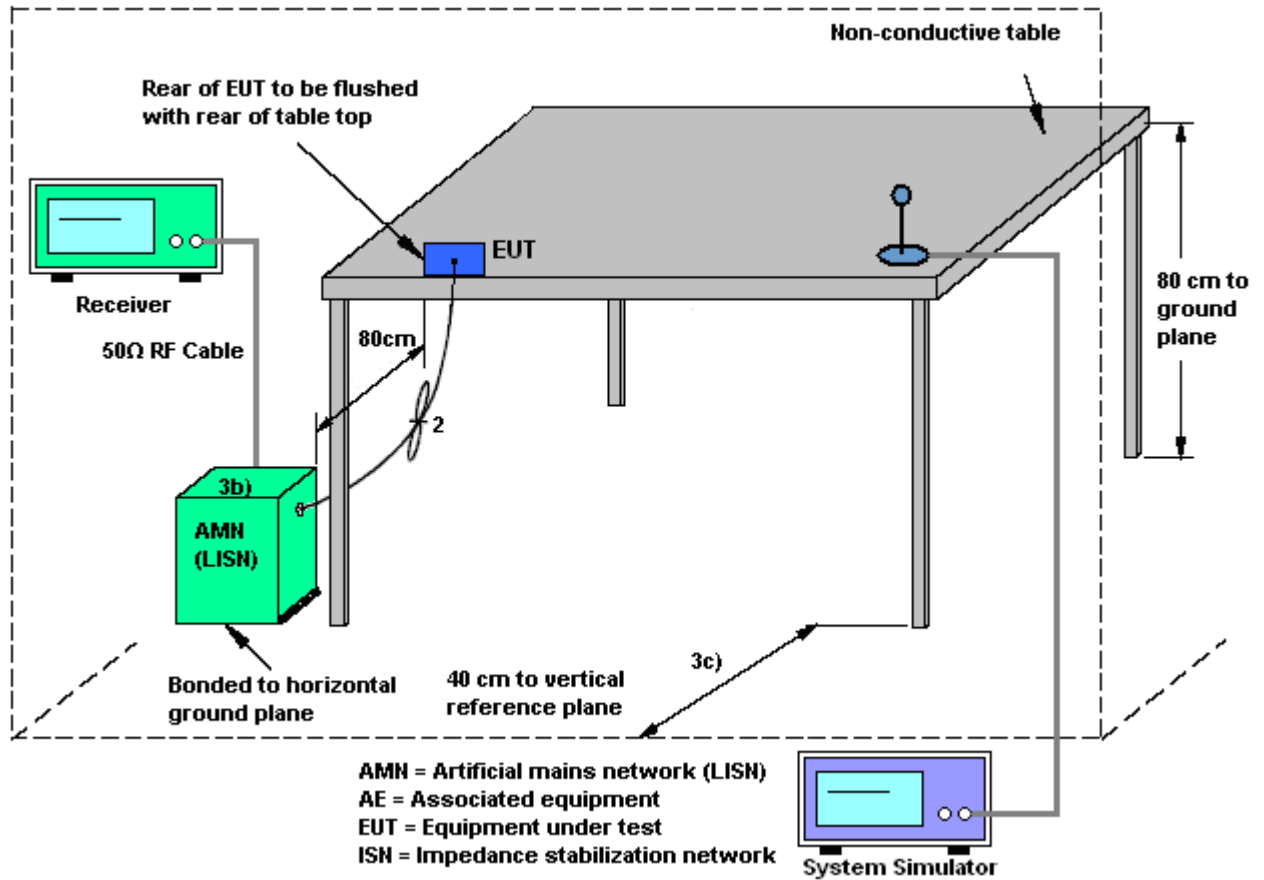
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.

3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.2.2. Measuring Instruments

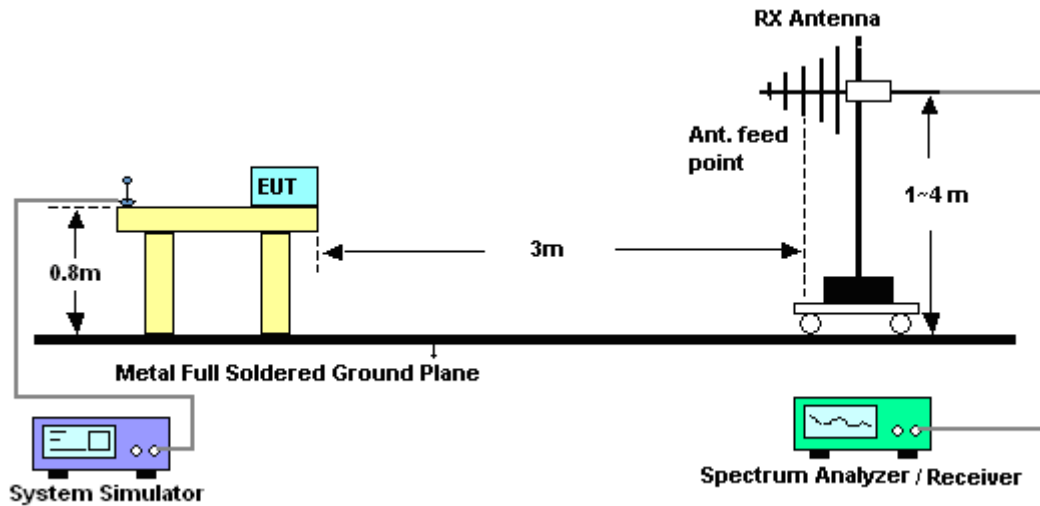
Refer a test equipment and calibration data table in this test report.

3.2.3. Test Procedures

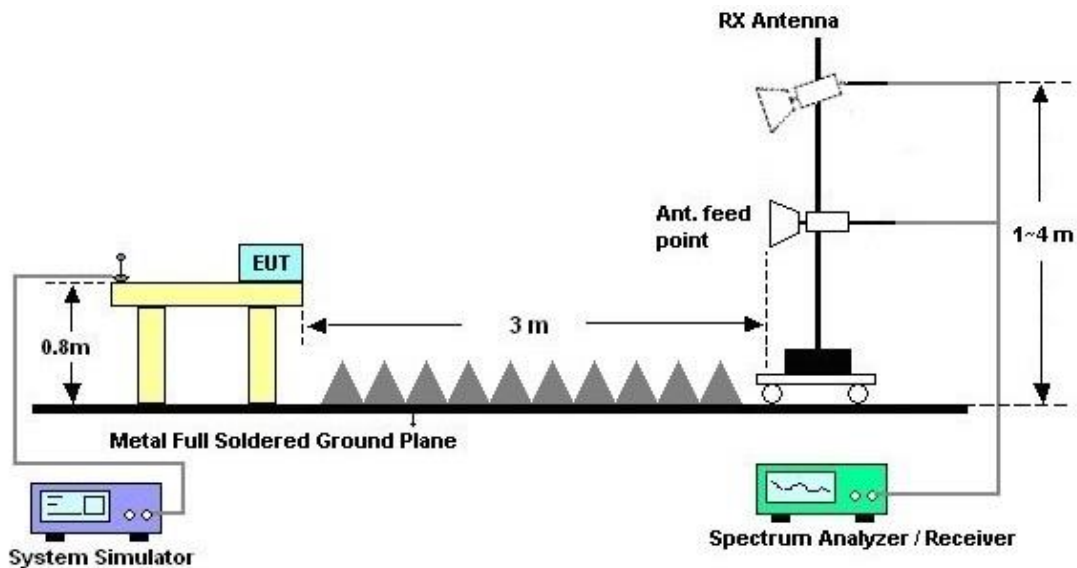
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dBμV/m) = 20 log Emission level (μV/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



4. List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
AC Power Source	ChainTek	APC-1000W	N/A	N/A	N/A	Aug. 06, 2019	N/A	Conduction (CO05-HY)
EMI Test Receiver	Rohde & Schwarz	ESR3	102388	9KHz~3.6GHz	Nov. 12, 2018	Aug. 06, 2019	Nov. 11, 2019	Conduction (CO05-HY)
Hygrometer	Testo	608-H1	34913912	N/A	Mar. 19, 2019	Aug. 06, 2019	Mar. 18, 2020	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100080	9kHz~30MHz	Nov. 14, 2018	Aug. 06, 2019	Nov. 13, 2019	Conduction (CO05-HY)
LISN	Rohde & Schwarz	ENV216	100081	9kHz~30MHz	Nov. 09, 2018	Aug. 06, 2019	Nov. 08, 2019	Conduction (CO05-HY)
Software	Rohde & Schwarz	EMC32 V10.30	N/A	N/A	N/A	Aug. 06, 2019	N/A	Conduction (CO05-HY)
LF Cable	HUBER + SUHNER	RG-214/U	LF01	N/A	Dec. 31, 2018	Aug. 06, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	100851	N/A	Dec. 31, 2018	Aug. 06, 2019	Dec. 30, 2019	Conduction (CO05-HY)
Amplifier	SONOMA	310N	187311	9kHz~1GHz	Oct. 23, 2018	Aug. 11, 2019~ Aug. 12, 2019	Oct. 22, 2019	Radiation (03CH10-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	35413&02	30MHz~1GHz	Feb. 12, 2019	Aug. 11, 2019~ Aug. 12, 2019	Feb. 11, 2020	Radiation (03CH10-HY)
Horn Antenna	SCHWARZBECK	BBHA 9120 D	9120D-132 5	1GHz ~ 18GHz	Oct. 02, 2018	Aug. 11, 2019~ Aug. 12, 2019	Oct. 01, 2019	Radiation (03CH10-HY)
Preamplifier	Jet-Power	JAP00101800 -30-10P	160118550 004	1GHz~18GHz	Apr. 16, 2019	Aug. 11, 2019~ Aug. 12, 2019	Apr. 15, 2020	Radiation (03CH10-HY)
Spectrum Analyzer	Keysight	N9010A	MY542004 85	10Hz ~ 44GHz	Nov. 02, 2018	Aug. 11, 2019~ Aug. 12, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Aug. 11, 2019~ Aug. 12, 2019	N/A	Radiation (03CH10-HY)
Antenna Mast	EMEC	AM-BS-4500- B	N/A	1~4m	N/A	Aug. 11, 2019~ Aug. 12, 2019	N/A	Radiation (03CH10-HY)
Turn Table	EMEC	TT 2200	N/A	0~360 Degree	N/A	Aug. 11, 2019~ Aug. 12, 2019	N/A	Radiation (03CH10-HY)
Software	Audix	E3 6.2009-8-24	RK-00104 2	N/A	N/A	Aug. 11, 2019~ Aug. 12, 2019	N/A	Radiation (03CH10-HY)
EMI Test Receiver	Keysight	N9038A (MXE)	MY541300 85	20Hz ~ 8.4GHz	Jan. 19, 2019	Aug. 11, 2019~ Aug. 12, 2019	Jan. 20, 2020	Radiation (03CH10-HY)



Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	30M-1G	Nov. 08, 2018	Aug. 11, 2019~ Aug. 12, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 104 / 102	MY11692/4PE, MY11693/4PE, MY2855/2	1G-18G	Nov. 08, 2018	Aug. 11, 2019~ Aug. 12, 2019	Nov. 07, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30M~40GHz	Oct. 16, 2018	Aug. 11, 2019~ Aug. 12, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	800740/2	30M~40GHz	Oct. 16, 2018	Aug. 11, 2019~ Aug. 12, 2019	Oct. 15, 2019	Radiation (03CH10-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170584	18GHz- 40GHz	Dec. 05, 2018	Aug. 11, 2019~ Aug. 12, 2019	Dec. 04, 2019	Radiation (03CH10-HY)
Preamplifier	EMEC	EM18G40G	060715	18GHz ~ 40GHz	Dec. 06, 2018	Aug. 11, 2019~ Aug. 12, 2019	Dec. 05, 2019	Radiation (03CH10-HY)
Filter	Microwave	H1G013G1	SN477215	1.0G High Pass	Nov. 02, 2018	Aug. 11, 2019~ Aug. 12, 2019	Nov. 01, 2019	Radiation (03CH10-HY)
Filter	Wainwright	WLKS1200-8SS	SN3	1.2G Low Pass	Nov. 02, 2018	Aug. 11, 2019~ Aug. 12, 2019	Nov. 01, 2019	Radiation (03CH10-HY)



5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	2.20
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Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

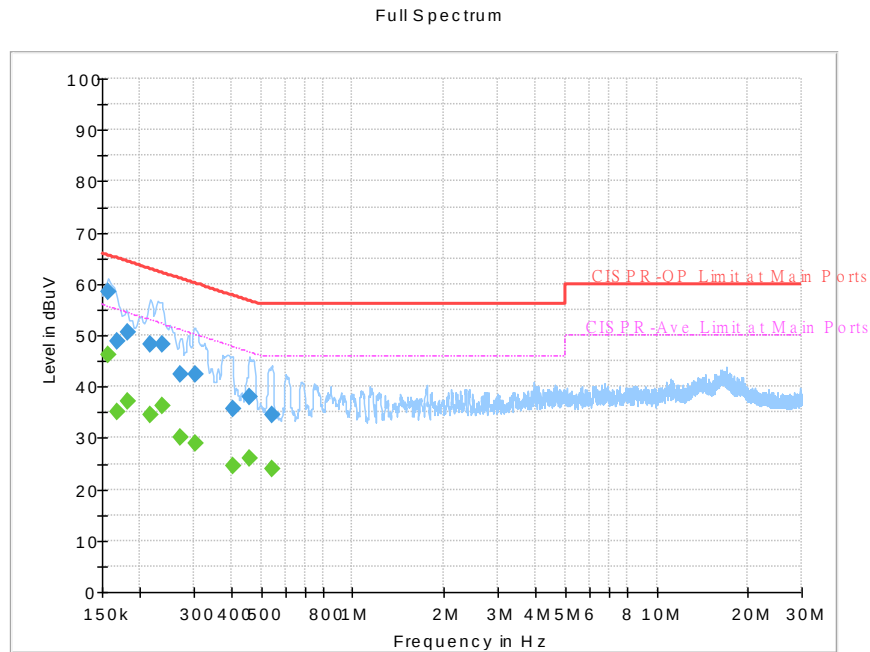
Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.60
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Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.20
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Appendix A. AC Conducted Emission Test Results

Test Mode :	Mode 1	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

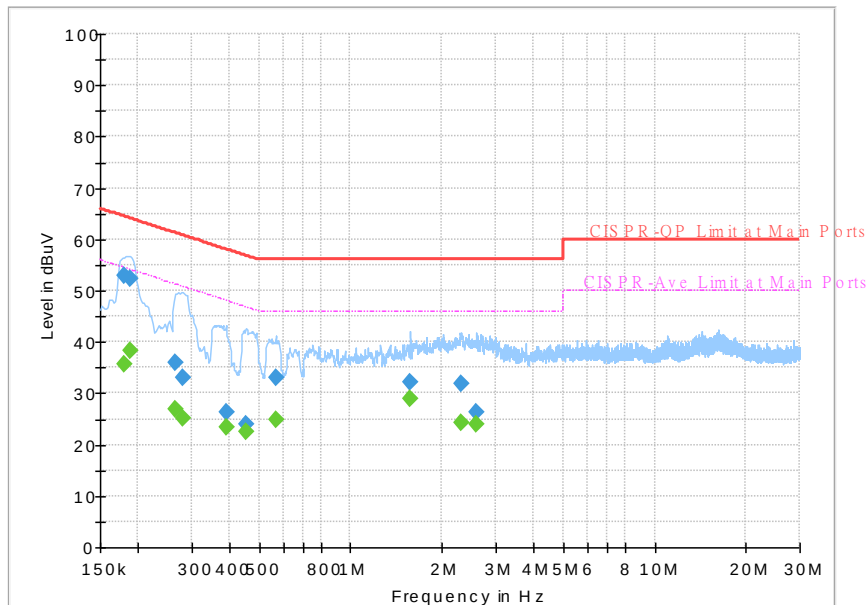


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.156750	58.35	---	65.63	7.28	L1	OFF	19.4
0.156750	---	46.10	55.63	9.53	L1	OFF	19.4
0.168000	48.97	---	65.06	16.09	L1	OFF	19.4
0.168000	---	35.13	55.06	19.93	L1	OFF	19.4
0.181500	50.68	---	64.42	13.74	L1	OFF	19.4
0.181500	---	37.28	54.42	17.14	L1	OFF	19.4
0.215250	48.38	---	63.00	14.62	L1	OFF	19.4
0.215250	---	34.46	53.00	18.54	L1	OFF	19.4
0.235500	48.13	---	62.25	14.12	L1	OFF	19.4
0.235500	---	36.35	52.25	15.90	L1	OFF	19.4
0.271500	42.43	---	61.07	18.64	L1	OFF	19.4
0.271500	---	30.13	51.07	20.94	L1	OFF	19.4
0.303000	42.32	---	60.16	17.84	L1	OFF	19.4
0.303000	---	28.85	50.16	21.31	L1	OFF	19.4
0.402000	35.72	---	57.81	22.09	L1	OFF	19.4
0.402000	---	24.52	47.81	23.29	L1	OFF	19.4
0.456000	37.97	---	56.77	18.80	L1	OFF	19.4
0.456000	---	25.97	46.77	20.80	L1	OFF	19.4
0.543750	34.62	---	56.00	21.38	L1	OFF	19.4
0.543750	---	23.84	46.00	22.16	L1	OFF	19.4

Test Mode :	Mode 1	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

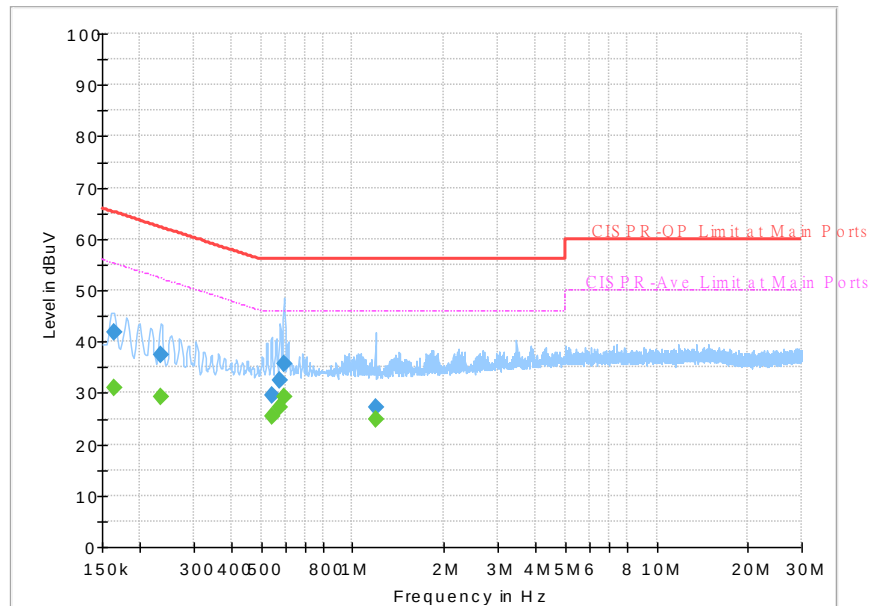


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.179250	---	35.65	54.52	18.87	N	OFF	19.5
0.179250	52.80	---	64.52	11.72	N	OFF	19.5
0.188250	---	38.21	54.11	15.90	N	OFF	19.5
0.188250	52.26	---	64.11	11.85	N	OFF	19.5
0.264750	---	26.98	51.28	24.30	N	OFF	19.5
0.264750	35.91	---	61.28	25.37	N	OFF	19.5
0.280500	---	25.22	50.80	25.58	N	OFF	19.5
0.280500	32.96	---	60.80	27.84	N	OFF	19.5
0.388500	---	23.38	48.10	24.72	N	OFF	19.5
0.388500	26.34	---	58.10	31.76	N	OFF	19.5
0.451500	---	22.65	46.85	24.20	N	OFF	19.5
0.451500	23.96	---	56.85	32.89	N	OFF	19.5
0.568500	---	24.73	46.00	21.27	N	OFF	19.5
0.568500	33.13	---	56.00	22.87	N	OFF	19.5
1.572000	---	28.92	46.00	17.08	N	OFF	19.5
1.572000	32.27	---	56.00	23.73	N	OFF	19.5
2.303250	---	24.28	46.00	21.72	N	OFF	19.6
2.303250	31.99	---	56.00	24.01	N	OFF	19.6
2.600250	---	24.04	46.00	21.96	N	OFF	19.6
2.600250	26.42	---	56.00	29.58	N	OFF	19.6

Test Mode :	Mode 2	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

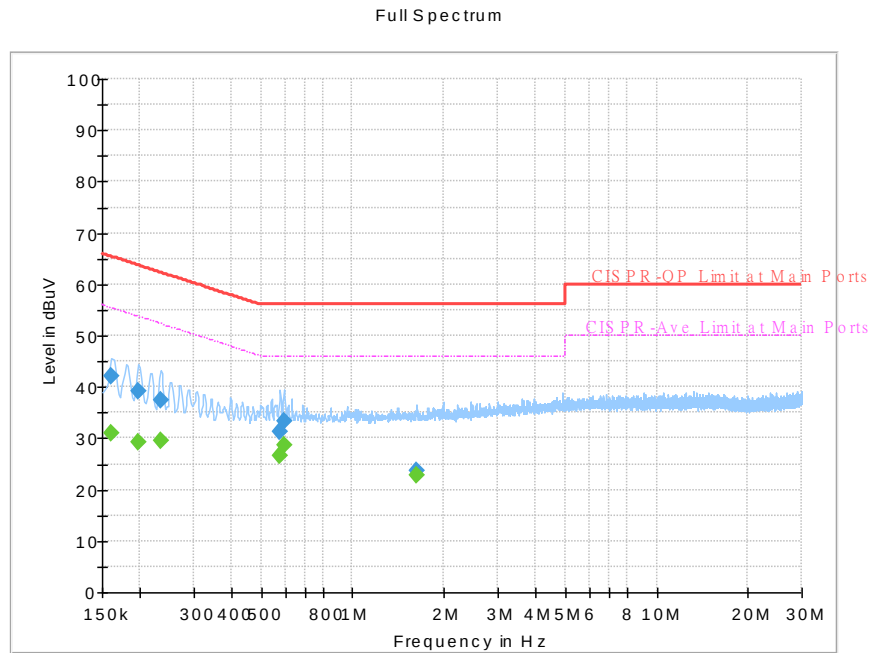
Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.163500	---	31.13	55.28	24.15	L1	OFF	19.4
0.163500	41.88	---	65.28	23.40	L1	OFF	19.4
0.233250	---	29.33	52.33	23.00	L1	OFF	19.4
0.233250	37.47	---	62.33	24.86	L1	OFF	19.4
0.541500	---	25.30	46.00	20.70	L1	OFF	19.4
0.541500	29.57	---	56.00	26.43	L1	OFF	19.4
0.577500	---	27.25	46.00	18.75	L1	OFF	19.4
0.577500	32.49	---	56.00	23.51	L1	OFF	19.4
0.595500	---	29.16	46.00	16.84	L1	OFF	19.4
0.595500	35.54	---	56.00	20.46	L1	OFF	19.4
1.189500	---	24.78	46.00	21.22	L1	OFF	19.5
1.189500	27.34	---	56.00	28.66	L1	OFF	19.5

Test Mode :	Mode 2	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

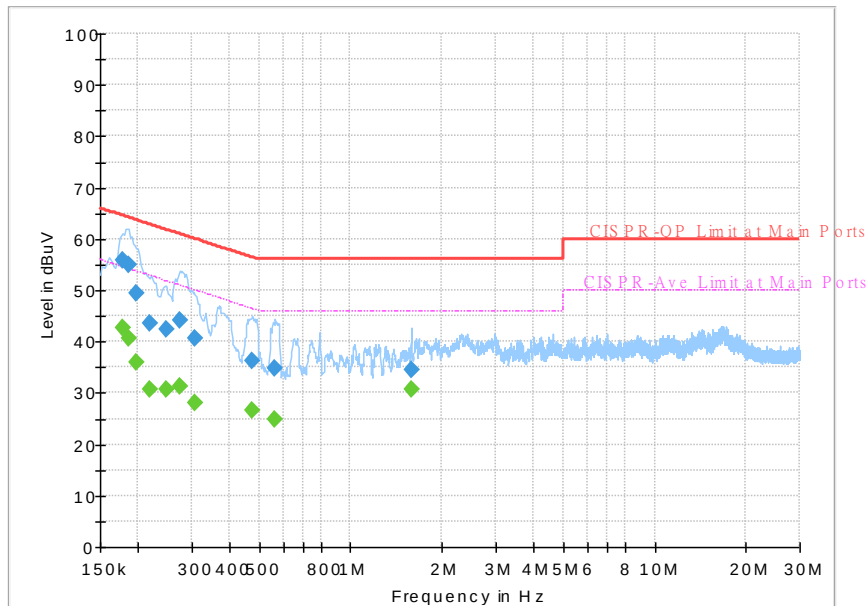


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	31.05	55.40	24.35	N	OFF	19.5
0.161250	41.96	---	65.40	23.44	N	OFF	19.5
0.197250	---	29.16	53.73	24.57	N	OFF	19.5
0.197250	39.26	---	63.73	24.47	N	OFF	19.5
0.233250	---	29.46	52.33	22.87	N	OFF	19.5
0.233250	37.44	---	62.33	24.89	N	OFF	19.5
0.577500	---	26.50	46.00	19.50	N	OFF	19.5
0.577500	31.36	---	56.00	24.64	N	OFF	19.5
0.595500	---	28.52	46.00	17.48	N	OFF	19.5
0.595500	33.42	---	56.00	22.58	N	OFF	19.5
1.626000	---	22.69	46.00	23.31	N	OFF	19.5
1.626000	23.73	---	56.00	32.27	N	OFF	19.5

Test Mode :	Mode 3	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

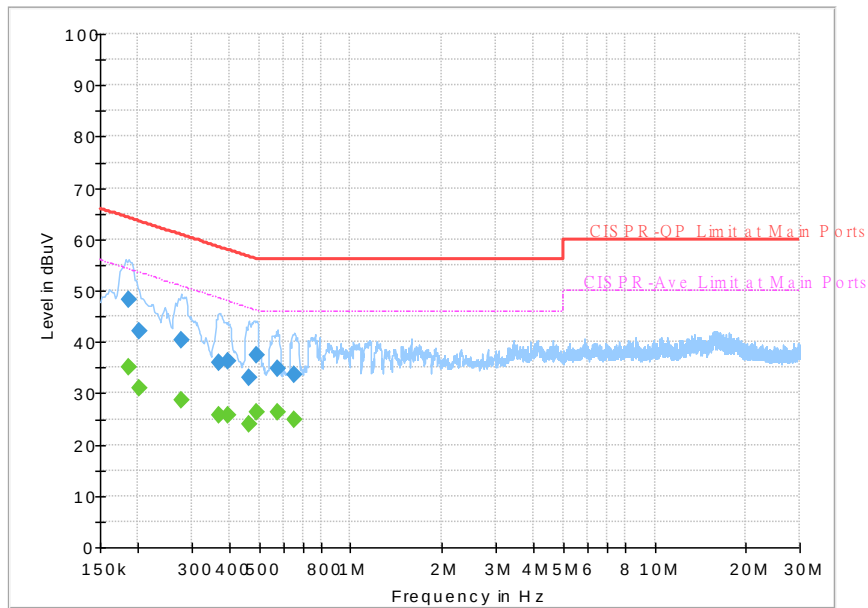


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.177000	55.74	---	64.63	8.89	L1	OFF	19.4
0.177000	---	42.61	54.63	12.02	L1	OFF	19.4
0.186000	55.03	---	64.21	9.18	L1	OFF	19.4
0.186000	---	40.63	54.21	13.58	L1	OFF	19.4
0.197250	49.39	---	63.73	14.34	L1	OFF	19.4
0.197250	---	35.85	53.73	17.88	L1	OFF	19.4
0.217500	43.56	---	62.91	19.35	L1	OFF	19.4
0.217500	---	30.84	52.91	22.07	L1	OFF	19.4
0.246750	42.49	---	61.87	19.38	L1	OFF	19.4
0.246750	---	30.68	51.87	21.19	L1	OFF	19.4
0.273750	44.08	---	61.00	16.92	L1	OFF	19.4
0.273750	---	31.21	51.00	19.79	L1	OFF	19.4
0.307500	40.56	---	60.04	19.48	L1	OFF	19.4
0.307500	---	28.13	50.04	21.91	L1	OFF	19.4
0.476250	36.16	---	56.40	20.24	L1	OFF	19.4
0.476250	---	26.62	46.40	19.78	L1	OFF	19.4
0.564000	34.89	---	56.00	21.11	L1	OFF	19.4
0.564000	---	24.77	46.00	21.23	L1	OFF	19.4
1.583250	34.50	---	56.00	21.50	L1	OFF	19.5
1.583250	---	30.59	46.00	15.41	L1	OFF	19.5

Test Mode :	Mode 3	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

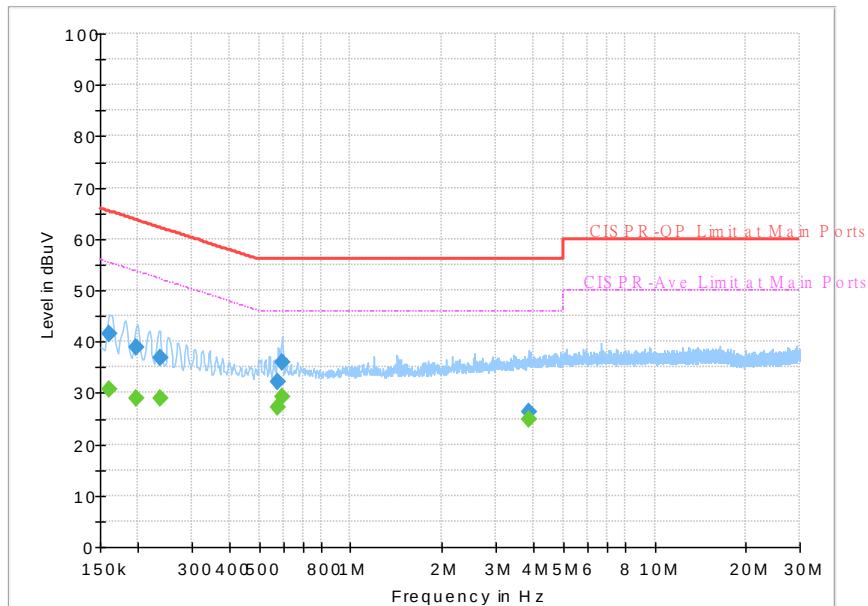


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.186000	48.38	---	64.21	15.83	N	OFF	19.5
0.186000	---	35.15	54.21	19.06	N	OFF	19.5
0.201750	42.04	---	63.54	21.50	N	OFF	19.5
0.201750	---	30.89	53.54	22.65	N	OFF	19.5
0.276000	40.23	---	60.94	20.71	N	OFF	19.5
0.276000	---	28.74	50.94	22.20	N	OFF	19.5
0.370500	35.85	---	58.49	22.64	N	OFF	19.5
0.370500	---	25.61	48.49	22.88	N	OFF	19.5
0.393000	36.15	---	58.00	21.85	N	OFF	19.5
0.393000	---	25.79	48.00	22.21	N	OFF	19.5
0.462750	32.98	---	56.64	23.66	N	OFF	19.5
0.462750	---	24.09	46.64	22.55	N	OFF	19.5
0.492000	37.42	---	56.13	18.71	N	OFF	19.5
0.492000	---	26.37	46.13	19.76	N	OFF	19.5
0.575250	34.79	---	56.00	21.21	N	OFF	19.5
0.575250	---	26.28	46.00	19.72	N	OFF	19.5
0.651750	33.75	---	56.00	22.25	N	OFF	19.5
0.651750	---	24.72	46.00	21.28	N	OFF	19.5

Test Mode :	Mode 4	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

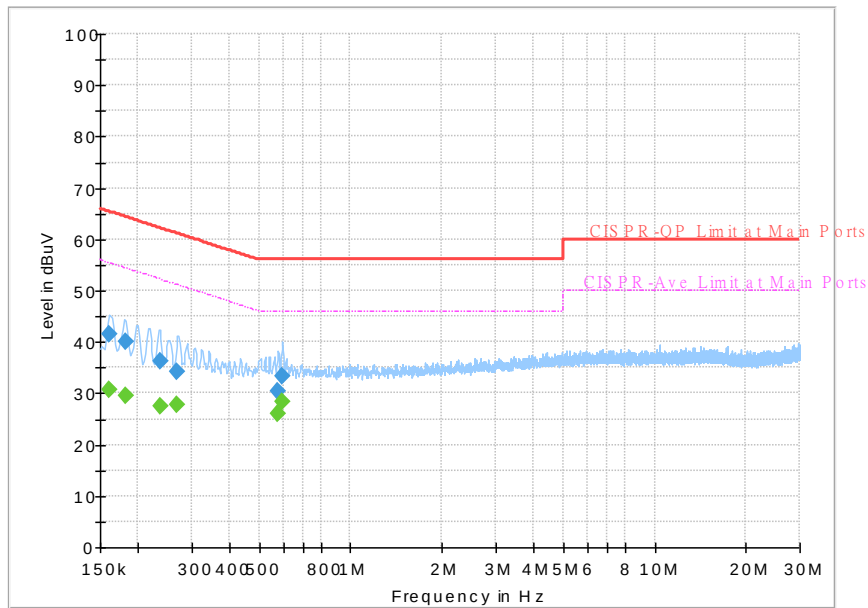


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	30.81	55.40	24.59	L1	OFF	19.4
0.161250	41.58	---	65.40	23.82	L1	OFF	19.4
0.197250	---	28.95	53.73	24.78	L1	OFF	19.4
0.197250	38.85	---	63.73	24.88	L1	OFF	19.4
0.235500	---	28.86	52.25	23.39	L1	OFF	19.4
0.235500	36.95	---	62.25	25.30	L1	OFF	19.4
0.577500	---	27.16	46.00	18.84	L1	OFF	19.4
0.577500	32.28	---	56.00	23.72	L1	OFF	19.4
0.595500	---	29.20	46.00	16.80	L1	OFF	19.4
0.595500	35.86	---	56.00	20.14	L1	OFF	19.4
3.860250	---	24.81	46.00	21.19	L1	OFF	19.6
3.860250	26.35	---	56.00	29.65	L1	OFF	19.6

Test Mode :	Mode 4	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

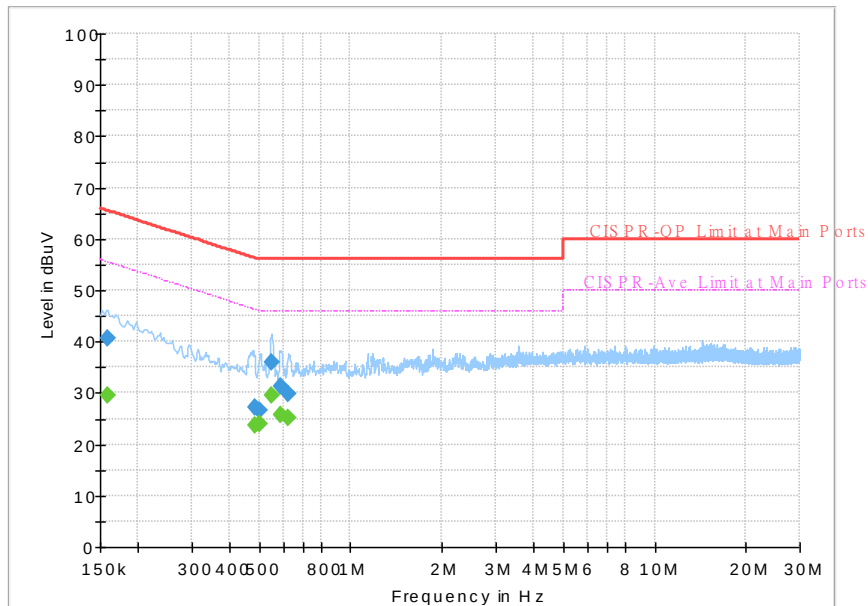


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	30.82	55.40	24.58	N	OFF	19.5
0.161250	41.56	---	65.40	23.84	N	OFF	19.5
0.181500	---	29.68	54.42	24.74	N	OFF	19.5
0.181500	40.12	---	64.42	24.30	N	OFF	19.5
0.235500	---	27.41	52.25	24.84	N	OFF	19.5
0.235500	36.32	---	62.25	25.93	N	OFF	19.5
0.269250	---	27.81	51.14	23.33	N	OFF	19.5
0.269250	34.15	---	61.14	26.99	N	OFF	19.5
0.575250	---	26.16	46.00	19.84	N	OFF	19.5
0.575250	30.50	---	56.00	25.50	N	OFF	19.5
0.595500	---	28.48	46.00	17.52	N	OFF	19.5
0.595500	33.37	---	56.00	22.63	N	OFF	19.5

Test Mode :	Mode 5	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

Full Spectrum

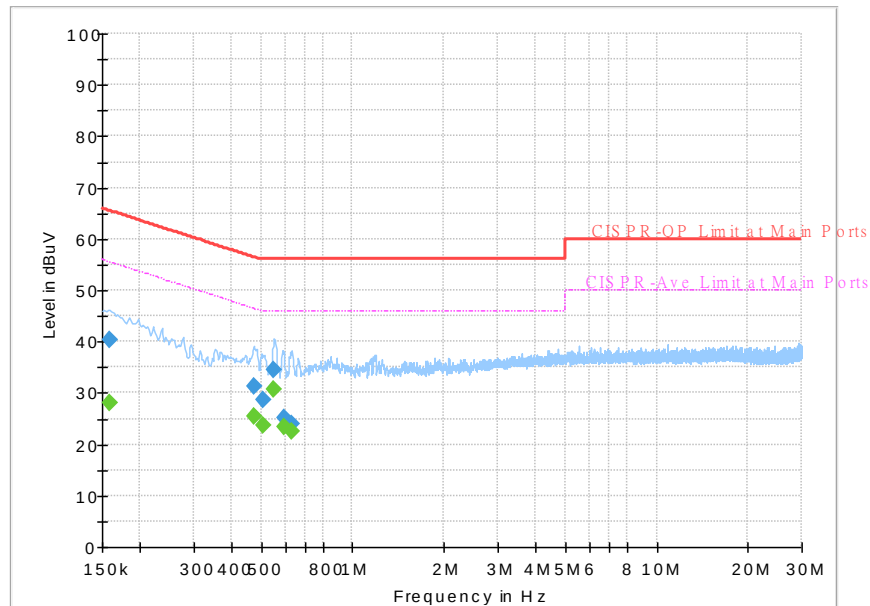


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	29.53	55.52	25.99	L1	OFF	19.4
0.159000	40.76	---	65.52	24.76	L1	OFF	19.4
0.483000	---	23.55	46.29	22.74	L1	OFF	19.4
0.483000	27.26	---	56.29	29.03	L1	OFF	19.4
0.503250	---	23.90	46.00	22.10	L1	OFF	19.4
0.503250	26.50	---	56.00	29.50	L1	OFF	19.4
0.550500	---	29.39	46.00	16.61	L1	OFF	19.4
0.550500	36.02	---	56.00	19.98	L1	OFF	19.4
0.586500	---	25.77	46.00	20.23	L1	OFF	19.4
0.586500	31.20	---	56.00	24.80	L1	OFF	19.4
0.624750	---	25.25	46.00	20.75	L1	OFF	19.4
0.624750	29.76	---	56.00	26.24	L1	OFF	19.4

Test Mode :	Mode 5	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

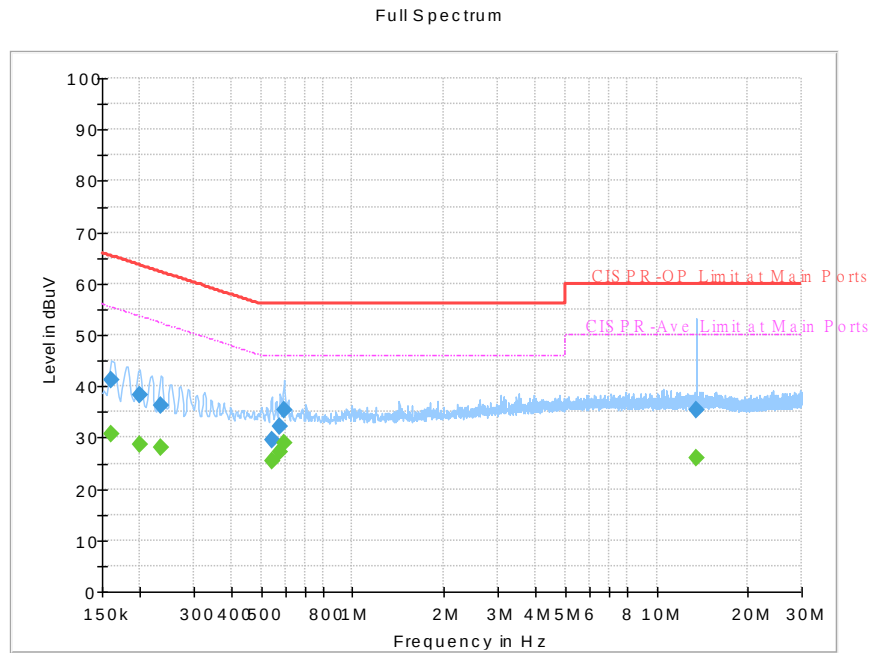
Full Spectrum



Final Result

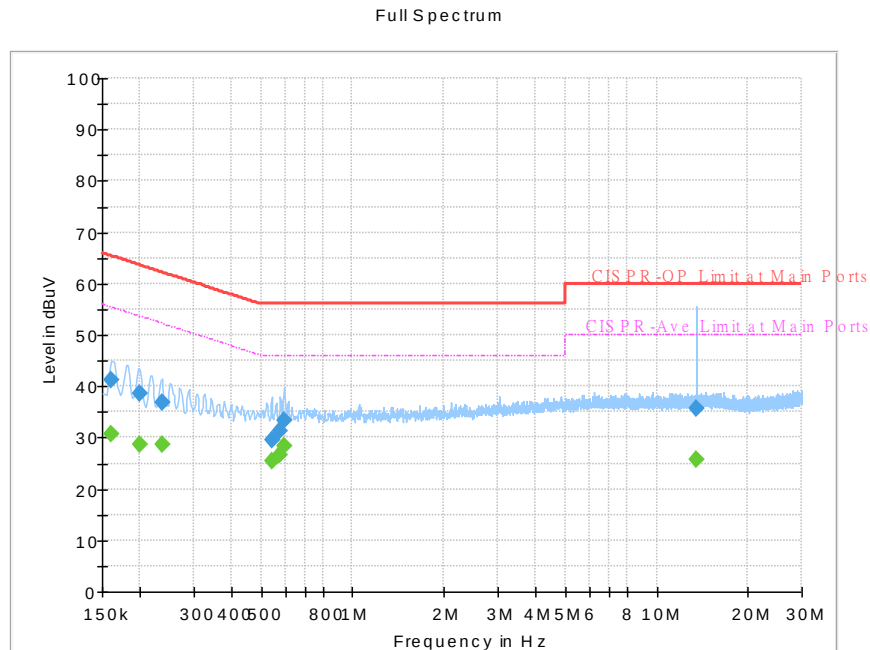
Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.159000	---	28.13	55.52	27.39	N	OFF	19.5
0.159000	40.32	---	65.52	25.20	N	OFF	19.5
0.471750	---	25.39	46.48	21.09	N	OFF	19.5
0.471750	31.30	---	56.48	25.18	N	OFF	19.5
0.507750	---	23.68	46.00	22.32	N	OFF	19.5
0.507750	28.64	---	56.00	27.36	N	OFF	19.5
0.552750	---	30.77	46.00	15.23	N	OFF	19.5
0.552750	34.42	---	56.00	21.58	N	OFF	19.5
0.593250	---	23.40	46.00	22.60	N	OFF	19.5
0.593250	25.19	---	56.00	30.81	N	OFF	19.5
0.633750	---	22.62	46.00	23.38	N	OFF	19.5
0.633750	23.98	---	56.00	32.02	N	OFF	19.5

Test Mode :	Mode 6	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	30.62	55.40	24.78	L1	OFF	19.4
0.161250	41.25	---	65.40	24.15	L1	OFF	19.4
0.199500	---	28.73	53.63	24.90	L1	OFF	19.4
0.199500	38.39	---	63.63	25.24	L1	OFF	19.4
0.233250	---	27.93	52.33	24.40	L1	OFF	19.4
0.233250	36.17	---	62.33	26.16	L1	OFF	19.4
0.541500	---	25.39	46.00	20.61	L1	OFF	19.4
0.541500	29.65	---	56.00	26.35	L1	OFF	19.4
0.577500	---	27.10	46.00	18.90	L1	OFF	19.4
0.577500	32.25	---	56.00	23.75	L1	OFF	19.4
0.595500	---	28.89	46.00	17.11	L1	OFF	19.4
0.595500	35.48	---	56.00	20.52	L1	OFF	19.4
13.560000	---	25.93	50.00	24.07	L1	OFF	19.9
13.560000	35.30	---	60.00	24.70	L1	OFF	19.9

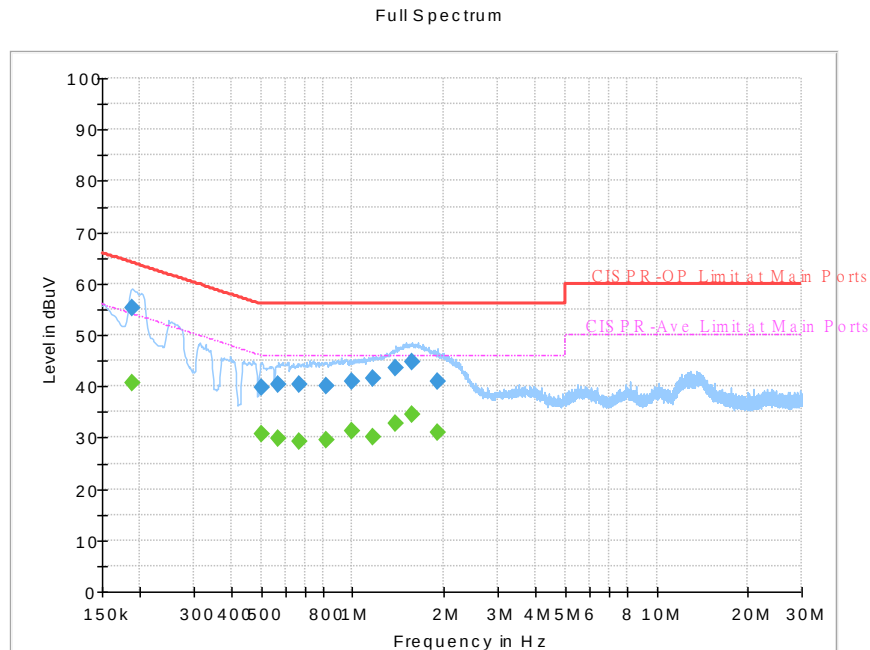
Test Mode :	Mode 6	Temperature :	22.8~24.3°C
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.161250	---	30.57	55.40	24.83	N	OFF	19.5
0.161250	41.21	---	65.40	24.19	N	OFF	19.5
0.199500	---	28.68	53.63	24.95	N	OFF	19.5
0.199500	38.65	---	63.63	24.98	N	OFF	19.5
0.235500	---	28.77	52.25	23.48	N	OFF	19.5
0.235500	36.79	---	62.25	25.46	N	OFF	19.5
0.541500	---	25.55	46.00	20.45	N	OFF	19.5
0.541500	29.56	---	56.00	26.44	N	OFF	19.5
0.577500	---	26.69	46.00	19.31	N	OFF	19.5
0.577500	31.34	---	56.00	24.66	N	OFF	19.5
0.595500	---	28.47	46.00	17.53	N	OFF	19.5
0.595500	33.39	---	56.00	22.61	N	OFF	19.5
13.560000	---	25.71	50.00	24.29	N	OFF	20.0
13.560000	35.62	---	60.00	24.38	N	OFF	20.0

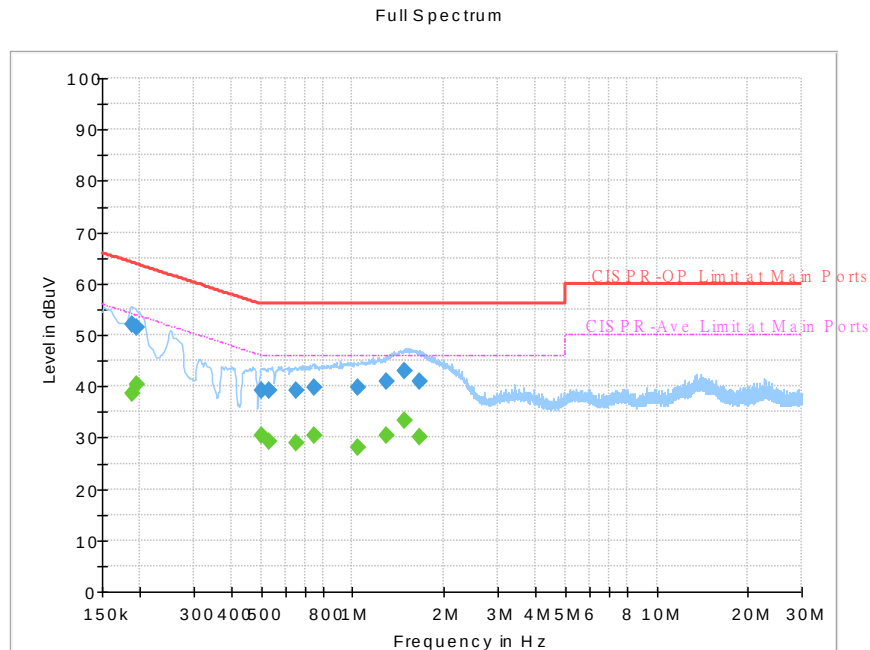
Test Mode :	Mode 7	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.188250	55.20	---	64.11	8.91	L1	OFF	19.4
0.188250	---	40.77	54.11	13.34	L1	OFF	19.4
0.503250	39.77	---	56.00	16.23	L1	OFF	19.4
0.503250	---	30.64	46.00	15.36	L1	OFF	19.4
0.570750	40.22	---	56.00	15.78	L1	OFF	19.4
0.570750	---	29.97	46.00	16.03	L1	OFF	19.4
0.665250	40.23	---	56.00	15.77	L1	OFF	19.4
0.665250	---	29.11	46.00	16.89	L1	OFF	19.4
0.822750	40.06	---	56.00	15.94	L1	OFF	19.4
0.822750	---	29.39	46.00	16.61	L1	OFF	19.4
0.996000	41.07	---	56.00	14.93	L1	OFF	19.5
0.996000	---	31.43	46.00	14.57	L1	OFF	19.5
1.160250	41.60	---	56.00	14.40	L1	OFF	19.5
1.160250	---	30.04	46.00	15.96	L1	OFF	19.5
1.389750	43.62	---	56.00	12.38	L1	OFF	19.5
1.389750	---	32.62	46.00	13.38	L1	OFF	19.5
1.569750	44.88	---	56.00	11.12	L1	OFF	19.5
1.569750	---	34.36	46.00	11.64	L1	OFF	19.5
1.911750	40.96	---	56.00	15.04	L1	OFF	19.5
1.911750	---	30.87	46.00	15.13	L1	OFF	19.5

Test Mode :	Mode 7	Temperature :	22.8~24.3℃
Test Engineer :	Louis Chung	Relative Humidity :	57.6~62.3%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



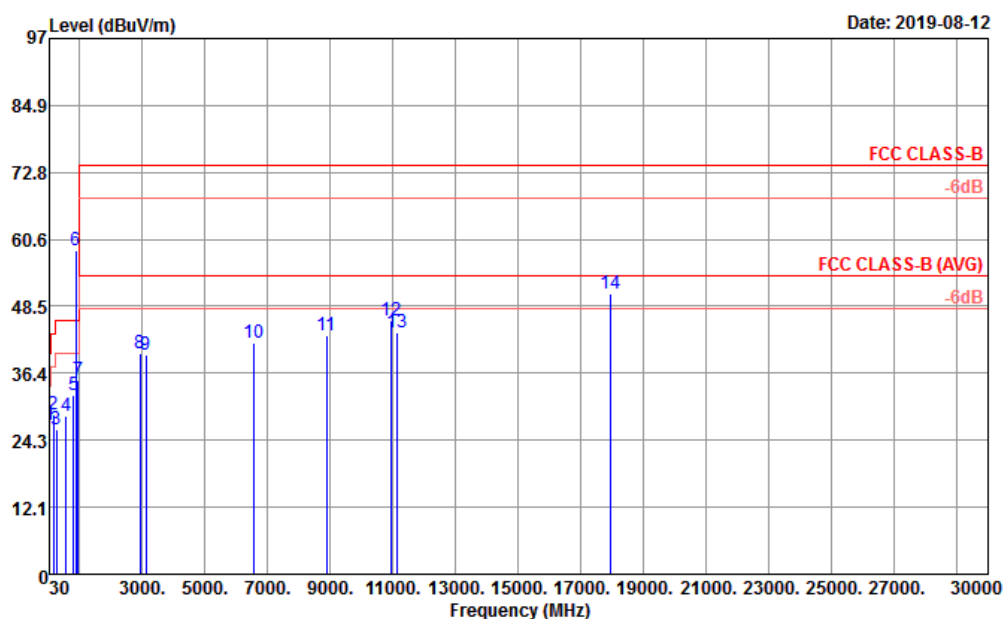
Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.188250	52.13	---	64.11	11.98	N	OFF	19.5
0.188250	---	38.74	54.11	15.37	N	OFF	19.5
0.195000	51.34	---	63.82	12.48	N	OFF	19.5
0.195000	---	40.24	53.82	13.58	N	OFF	19.5
0.503250	39.19	---	56.00	16.81	N	OFF	19.5
0.503250	---	30.35	46.00	15.65	N	OFF	19.5
0.530250	39.04	---	56.00	16.96	N	OFF	19.5
0.530250	---	29.32	46.00	16.68	N	OFF	19.5
0.651750	39.06	---	56.00	16.94	N	OFF	19.5
0.651750	---	28.99	46.00	17.01	N	OFF	19.5
0.750750	39.80	---	56.00	16.20	N	OFF	19.5
0.750750	---	30.47	46.00	15.53	N	OFF	19.5
1.041000	39.68	---	56.00	16.32	N	OFF	19.5
1.041000	---	28.15	46.00	17.85	N	OFF	19.5
1.290750	40.93	---	56.00	15.07	N	OFF	19.5
1.290750	---	30.44	46.00	15.56	N	OFF	19.5
1.488750	42.93	---	56.00	13.07	N	OFF	19.5
1.488750	---	33.24	46.00	12.76	N	OFF	19.5
1.662000	41.03	---	56.00	14.97	N	OFF	19.6
1.662000	---	30.05	46.00	15.95	N	OFF	19.6



Appendix B. Radiated Emission Test Result

Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		



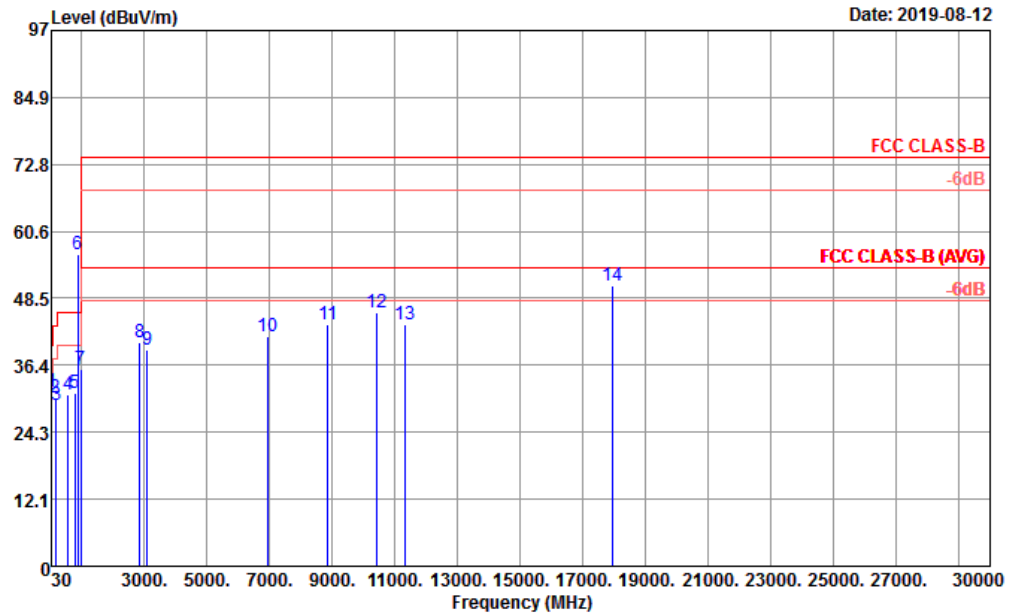
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Preamp Loss Factor	A/Pos	T/Pos		Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.97	27.03	-12.97	40.00	34.55	24.81	0.45	32.78	---	---	Peak
2	153.19	28.84	-14.66	43.50	43.35	16.80	1.32	32.63	---	---	Peak
3	257.95	26.28	-19.72	46.00	37.42	19.67	1.79	32.60	---	---	Peak
4	575.14	28.67	-17.33	46.00	32.66	26.00	2.71	32.70	---	---	Peak
5	793.39	32.53	-13.47	46.00	33.38	28.30	3.23	32.38	---	---	Peak
6 *	881.66	58.51			57.95	29.07	3.41	31.92	---	---	Peak
7	951.50	35.06	-10.94	46.00	31.81	31.06	3.51	31.32	100	0	Peak
8	2932.00	39.93	-34.07	74.00	65.95	28.26	7.61	61.89	---	---	Peak
9	3120.00	39.59	-34.41	74.00	65.01	28.70	7.85	61.97	---	---	Peak
10	6560.00	41.82	-32.18	74.00	60.38	34.32	10.19	63.07	---	---	Peak
11	8878.00	43.28	-30.72	74.00	58.43	37.59	11.81	64.55	---	---	Peak
12	10946.00	45.87	-28.13	74.00	56.50	40.05	13.18	63.86	---	---	Peak
13	11136.00	43.90	-30.10	74.00	54.88	39.53	13.32	63.83	---	---	Peak
14	17955.00	50.79	-23.21	74.00	47.87	46.62	18.62	62.32	100	0	Peak



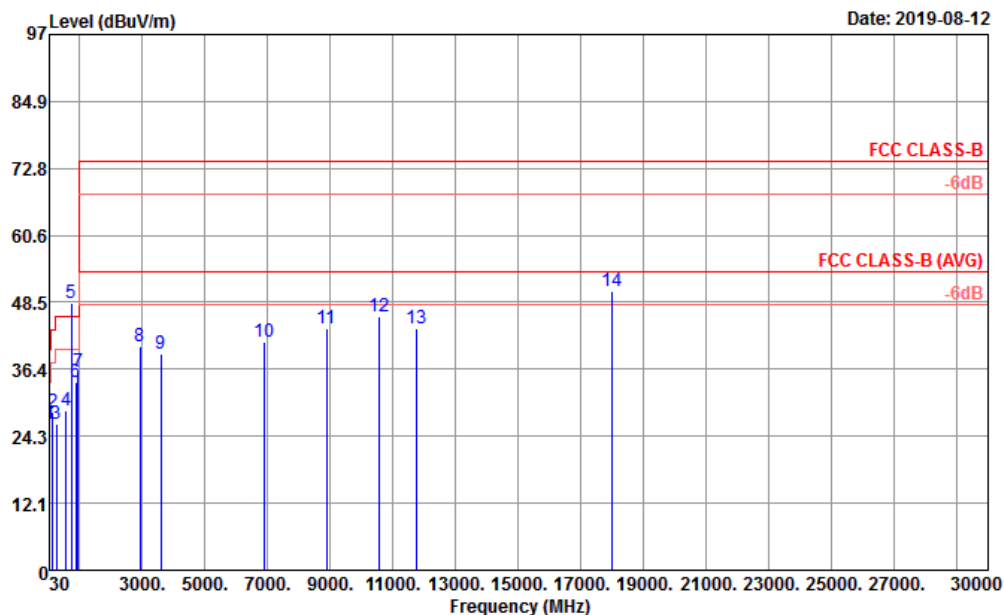
Mode :	Mode 1	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	41.64	31.69	-8.31	40.00	45.13	18.71	0.61	32.76	100	0 Peak
2	156.10	30.62	-12.88	43.50	44.43	17.50	1.32	32.63	---	---
3	181.32	29.24	-14.26	43.50	45.50	14.87	1.47	32.60	---	---
4	563.50	30.95	-15.05	46.00	34.65	26.30	2.69	32.69	---	---
5	779.81	31.44	-14.56	46.00	32.24	28.40	3.21	32.41	---	---
6 *	881.66	56.52			55.96	29.07	3.41	31.92	---	---
7	959.26	35.56	-10.44	46.00	31.98	31.29	3.53	31.24	---	---
8	2850.00	40.64	-33.36	74.00	66.97	28.10	7.44	61.87	---	---
9	3080.00	39.10	-34.90	74.00	64.61	28.62	7.82	61.95	---	---
10	6950.00	41.54	-32.46	74.00	59.47	35.20	10.41	63.54	---	---
11	8868.00	43.85	-30.15	74.00	58.95	37.63	11.81	64.54	---	---
12	10404.00	45.82	-28.18	74.00	57.93	39.60	12.77	64.48	---	---
13	11334.00	43.70	-30.30	74.00	54.66	39.43	13.48	63.87	---	---
14	17960.00	50.70	-23.30	74.00	47.65	46.74	18.63	62.32	100	0 Peak



Mode :	Mode 2	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



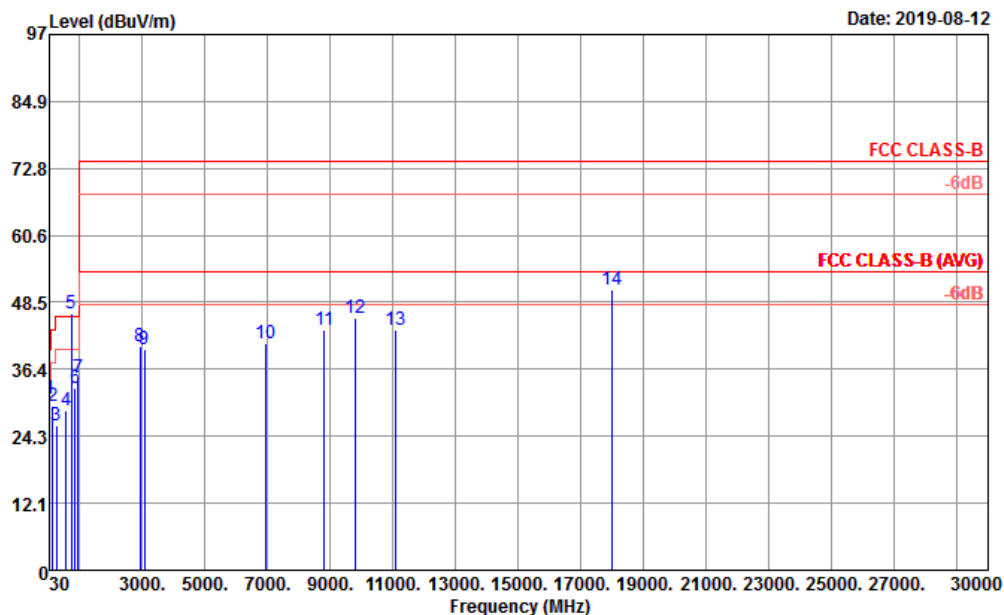
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Preamp Loss	Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	26.45	-13.55	40.00	33.48	25.30	0.45	32.78	---	---	Peak
2	147.37	28.77	-14.73	43.50	42.89	17.20	1.31	32.63	---	---	Peak
3	262.80	26.35	-19.65	46.00	37.25	19.89	1.81	32.60	---	---	Peak
4	558.65	28.90	-17.10	46.00	32.72	26.19	2.68	32.69	---	---	Peak
5 *	737.13	48.50			49.88	27.99	3.13	32.50	---	---	Peak
6	884.57	33.94	-12.06	46.00	33.42	29.01	3.41	31.90	---	---	Peak
7	943.74	35.83	-10.17	46.00	33.20	30.52	3.50	31.39	100	0	Peak
8	2924.00	40.44	-33.56	74.00	66.47	28.25	7.60	61.88	---	---	Peak
9	3598.00	39.27	-34.73	74.00	64.48	28.90	8.11	62.22	---	---	Peak
10	6904.00	41.30	-32.70	74.00	59.33	35.02	10.43	63.48	---	---	Peak
11	8872.00	43.65	-30.35	74.00	58.78	37.61	11.81	64.55	---	---	Peak
12	10538.00	45.92	-28.08	74.00	57.86	39.54	12.87	64.35	---	---	Peak
13	11744.00	43.65	-30.35	74.00	55.19	38.77	13.79	64.10	---	---	Peak
14	17985.00	50.61	-23.39	74.00	46.91	47.34	18.67	62.31	100	0	Peak



Mode :	Mode 2	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



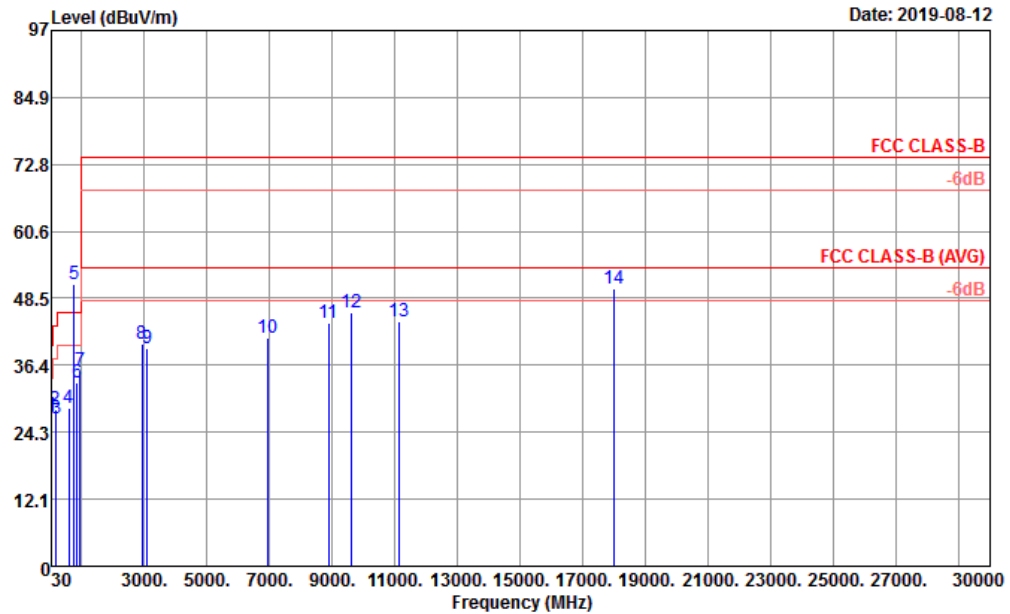
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	38.73	31.03	-8.97	40.00	42.84	20.43	0.53	32.77	100	0 Peak
2	143.49	29.70	-13.80	43.50	43.68	17.35	1.31	32.64	---	---
3	264.74	26.14	-19.86	46.00	37.12	19.81	1.81	32.60	---	---
4	563.50	28.87	-17.13	46.00	32.57	26.30	2.69	32.69	---	---
5 *	737.13	46.52			47.90	27.99	3.13	32.50	---	---
6	856.44	33.01	-12.99	46.00	32.42	29.27	3.38	32.06	---	---
7	945.68	34.97	-11.03	46.00	32.19	30.65	3.50	31.37	---	---
8	2922.00	40.45	-33.55	74.00	66.50	28.24	7.59	61.88	---	---
9	3070.00	40.05	-33.95	74.00	65.60	28.58	7.81	61.94	---	---
10	6942.00	41.06	-32.94	74.00	59.01	35.17	10.41	63.53	---	---
11	8806.00	43.47	-30.53	74.00	58.45	37.70	11.79	64.47	---	---
12	9794.00	45.60	-28.40	74.00	59.38	38.81	12.17	64.76	---	---
13	11074.00	43.58	-30.42	74.00	54.38	39.73	13.28	63.81	---	---
14	17975.00	50.82	-23.18	74.00	47.38	47.10	18.65	62.31	100	0 Peak



Mode :	Mode 3	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#5 is system simulator signal which can be ignored.		



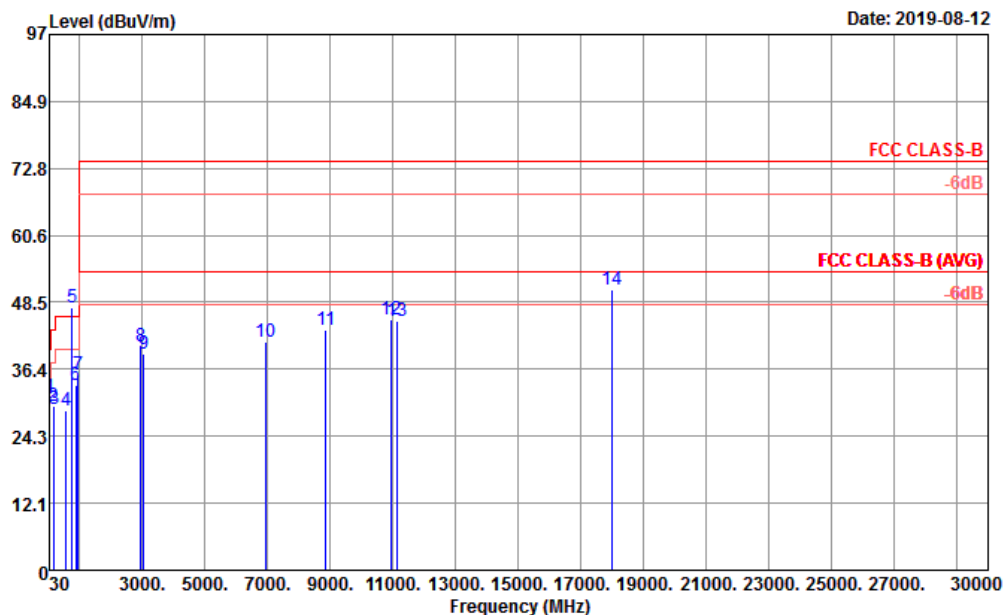
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamplifier	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	27.19	-12.81	40.00	34.22	25.30	0.45	32.78	---	---	Peak
2	152.22	28.44	-15.06	43.50	42.87	16.88	1.32	32.63	---	---	Peak
3	183.26	26.86	-16.64	43.50	43.19	14.80	1.47	32.60	---	---	Peak
4	594.54	28.61	-17.39	46.00	32.87	25.71	2.75	32.72	---	---	Peak
5 *	750.71	50.93			51.93	28.30	3.17	32.47	---	---	Peak
6	846.74	33.26	-12.74	46.00	32.78	29.23	3.36	32.11	---	---	Peak
7	954.41	35.36	-10.64	46.00	31.95	31.18	3.52	31.29	100	0	Peak
8	2918.00	40.34	-33.66	74.00	66.40	28.24	7.58	61.88	---	---	Peak
9	3090.00	39.58	-34.42	74.00	65.04	28.66	7.83	61.95	---	---	Peak
10	6946.00	41.24	-32.76	74.00	59.19	35.18	10.41	63.54	---	---	Peak
11	8886.00	43.92	-30.08	74.00	59.10	37.56	11.82	64.56	---	---	Peak
12	9600.00	45.93	-28.07	74.00	60.15	38.40	12.10	64.72	---	---	Peak
13	11142.00	44.32	-29.68	74.00	55.30	39.52	13.33	63.83	---	---	Peak
14	17980.00	50.35	-23.65	74.00	46.78	47.22	18.66	62.31	100	0	Peak



Mode :	Mode 3	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Vertical
Remark :	#5 is system simulator signal which can be ignored.		



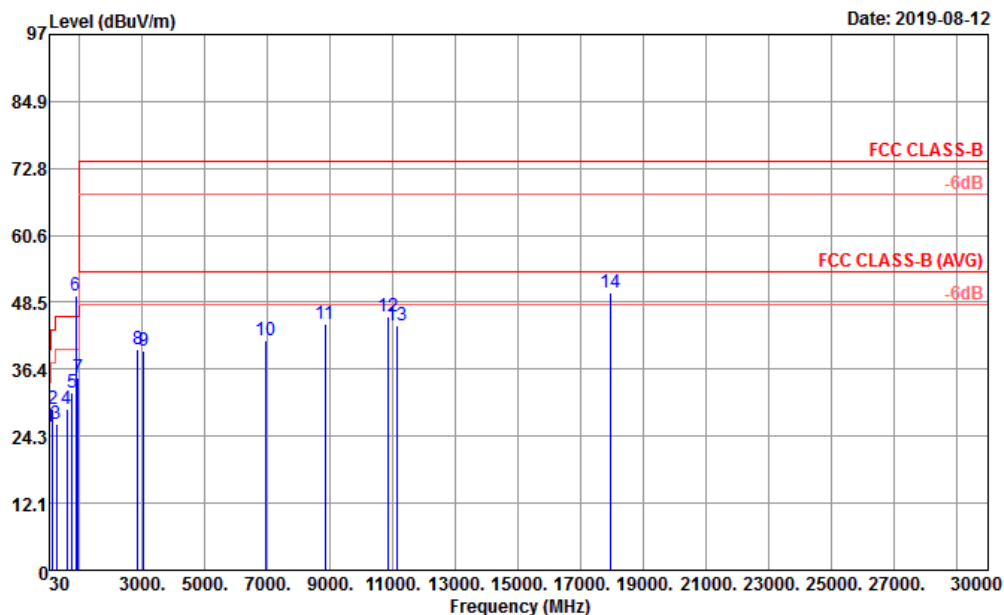
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	42.61	31.28	-8.72	40.00	45.11	18.30	0.63	32.76	100	0 Peak
2	156.10	29.62	-13.88	43.50	43.43	17.50	1.32	32.63	---	---
3	185.20	29.05	-14.45	43.50	45.38	14.80	1.47	32.60	---	---
4	566.41	29.02	-16.98	46.00	32.78	26.24	2.69	32.69	---	---
5 *	750.71	47.66			48.66	28.30	3.17	32.47	---	---
6	872.93	33.42	-12.58	46.00	32.79	29.20	3.40	31.97	---	---
7	958.29	35.26	-10.74	46.00	31.71	31.27	3.53	31.25	---	---
8	2940.00	40.46	-33.54	74.00	66.44	28.28	7.63	61.89	---	---
9	3052.00	39.24	-34.76	74.00	64.86	28.51	7.80	61.93	---	---
10	6948.00	41.47	-32.53	74.00	59.41	35.19	10.41	63.54	---	---
11	8866.00	43.62	-30.38	74.00	58.71	37.64	11.81	64.54	---	---
12	10946.00	45.38	-28.62	74.00	56.01	40.05	13.18	63.86	---	---
13	11120.00	45.01	-28.99	74.00	55.96	39.56	13.31	63.82	---	---
14	17980.00	50.82	-23.18	74.00	47.25	47.22	18.66	62.31	100	0 Peak



Mode :	Mode 4	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		



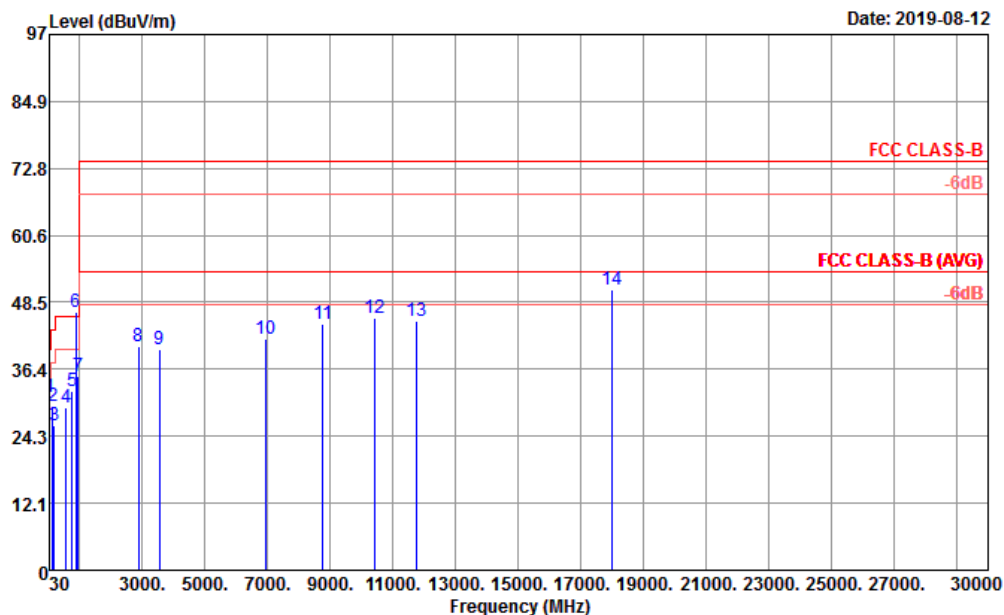
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Antenna Factor	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	25.87	-14.13	40.00	32.90	25.30	0.45	32.78	---	---	Peak
2	147.37	29.27	-14.23	43.50	43.39	17.20	1.31	32.63	---	---	Peak
3	256.98	26.39	-19.61	46.00	37.68	19.52	1.79	32.60	---	---	Peak
4	586.78	29.22	-16.78	46.00	33.34	25.86	2.73	32.71	---	---	Peak
5	764.29	32.19	-13.81	46.00	33.14	28.30	3.19	32.44	---	---	Peak
6 *	876.81	49.72			49.11	29.16	3.40	31.95	---	---	Peak
7	943.74	34.94	-11.06	46.00	32.31	30.52	3.50	31.39	100	0	Peak
8	2848.00	39.99	-34.01	74.00	66.34	28.09	7.43	61.87	---	---	Peak
9	3054.00	39.76	-34.24	74.00	65.37	28.52	7.80	61.93	---	---	Peak
10	6954.00	41.58	-32.42	74.00	59.49	35.22	10.41	63.54	---	---	Peak
11	8840.00	44.69	-29.31	74.00	59.70	37.70	11.80	64.51	---	---	Peak
12	10848.00	45.84	-28.16	74.00	56.77	39.95	13.10	63.98	---	---	Peak
13	11128.00	44.42	-29.58	74.00	55.39	39.54	13.32	63.83	---	---	Peak
14	17950.00	50.27	-23.73	74.00	47.47	46.50	18.62	62.32	100	0	Peak



Mode :	Mode 4	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



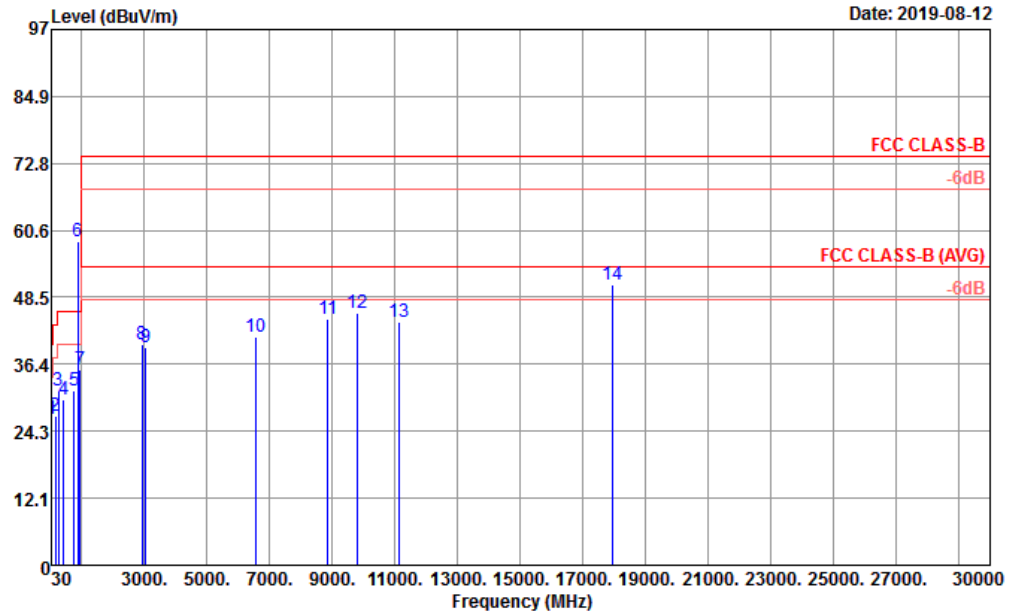
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	38.73	31.21	-8.79	40.00	43.02	20.43	0.53	32.77	100	0 Peak
2	147.37	29.70	-13.80	43.50	43.82	17.20	1.31	32.63	---	---
3	177.44	26.22	-17.28	43.50	42.28	15.10	1.45	32.61	---	---
4	575.14	29.37	-16.63	46.00	33.36	26.00	2.71	32.70	---	---
5	750.71	32.33	-13.67	46.00	33.33	28.30	3.17	32.47	---	---
6 *	876.81	46.74			46.13	29.16	3.40	31.95	---	---
7	953.44	35.02	-10.98	46.00	31.66	31.14	3.52	31.30	---	---
8	2880.00	40.49	-33.51	74.00	66.71	28.16	7.50	61.88	---	---
9	3544.00	39.86	-34.14	74.00	65.20	28.76	8.11	62.21	---	---
10	6954.00	41.77	-32.23	74.00	59.68	35.22	10.41	63.54	---	---
11	8768.00	44.70	-29.30	74.00	59.74	37.64	11.74	64.42	---	---
12	10416.00	45.66	-28.34	74.00	57.77	39.58	12.78	64.47	---	---
13	11758.00	45.03	-28.97	74.00	56.61	38.73	13.80	64.11	---	---
14	17975.00	50.93	-23.07	74.00	47.49	47.10	18.65	62.31	100	0 Peak



Mode :	Mode 5	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		



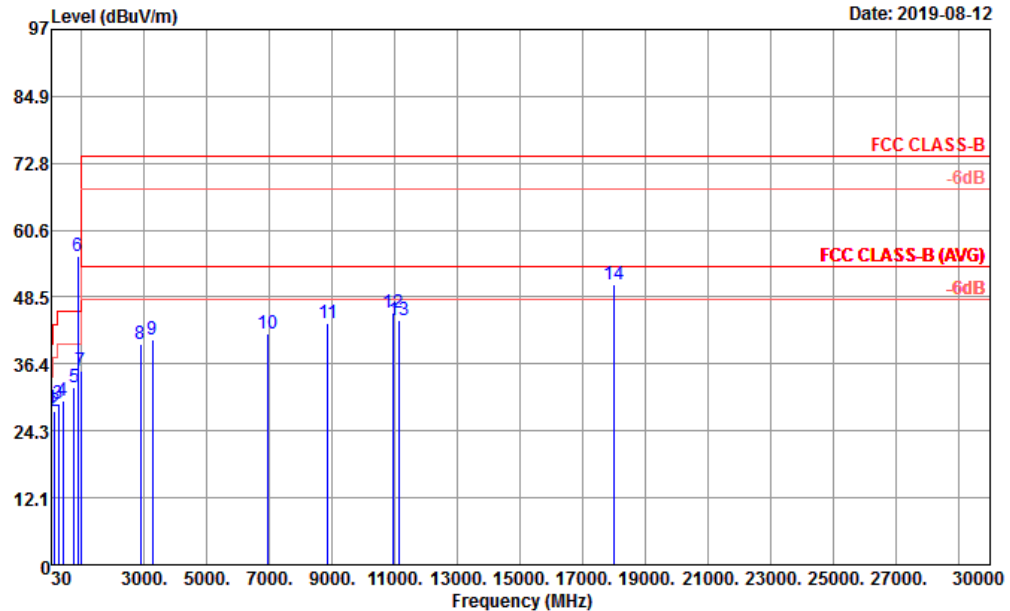
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.00	26.51	-13.49	40.00	33.54	25.30	0.45	32.78	---	---	Peak
2	162.89	27.05	-16.45	43.50	42.11	16.21	1.35	32.62	---	---	Peak
3	264.74	31.72	-14.28	46.00	42.70	19.81	1.81	32.60	---	---	Peak
4	411.21	30.10	-15.90	46.00	38.17	22.25	2.30	32.62	---	---	Peak
5	763.32	31.49	-14.51	46.00	32.44	28.30	3.19	32.44	---	---	Peak
6 *	869.05	58.59			57.99	29.20	3.39	31.99	---	---	Peak
7	949.56	35.48	-10.52	46.00	32.34	30.96	3.51	31.33	100	0	Peak
8	2932.00	40.03	-33.97	74.00	66.05	28.26	7.61	61.89	---	---	Peak
9	3042.00	39.36	-34.64	74.00	65.02	28.48	7.79	61.93	---	---	Peak
10	6550.00	41.21	-32.79	74.00	59.79	34.30	10.18	63.06	---	---	Peak
11	8860.00	44.49	-29.51	74.00	59.55	37.66	11.81	64.53	---	---	Peak
12	9800.00	45.74	-28.26	74.00	59.53	38.80	12.17	64.76	---	---	Peak
13	11134.00	43.93	-30.07	74.00	54.91	39.53	13.32	63.83	---	---	Peak
14	17935.00	50.85	-23.15	74.00	48.44	46.14	18.60	62.33	100	0	Peak



Mode :	Mode 5	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



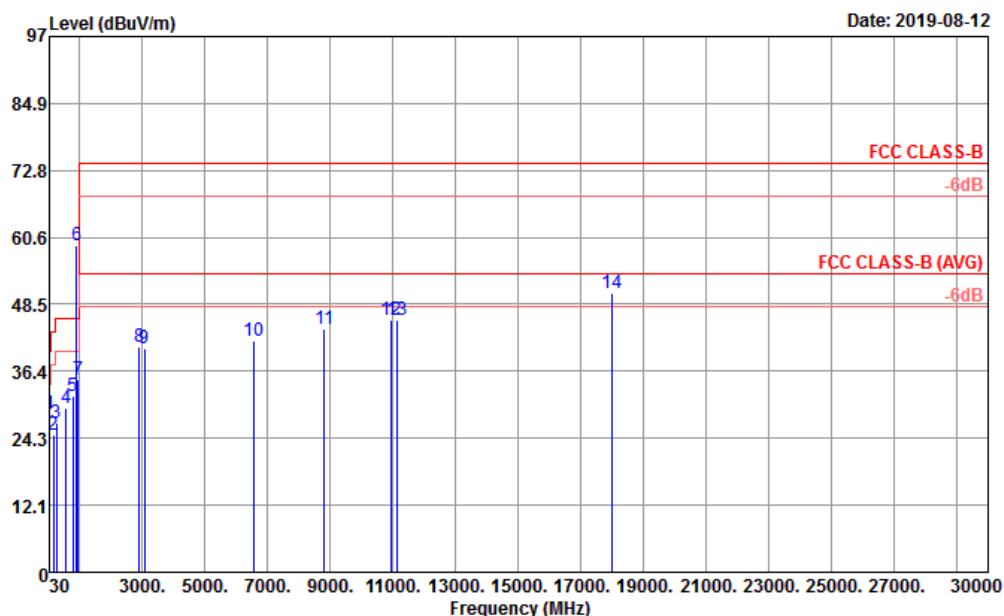
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	30.00	28.44	-11.56	40.00	35.47	25.30	0.45	32.78	---	---
2	134.76	27.81	-15.69	43.50	41.69	17.50	1.26	32.64	---	---
3	260.86	29.21	-16.79	46.00	40.04	19.97	1.80	32.60	---	---
4	408.30	29.86	-16.14	46.00	38.06	22.13	2.29	32.62	---	---
5	751.68	32.21	-13.79	46.00	33.21	28.30	3.17	32.47	---	---
6 *	869.05	56.01			55.41	29.20	3.39	31.99	---	---
7	959.26	35.03	-10.97	46.00	31.45	31.29	3.53	31.24	100	0
8	2872.00	39.99	-34.01	74.00	66.24	28.14	7.48	61.87	---	---
9	3250.00	40.76	-33.24	74.00	66.45	28.40	7.96	62.05	---	---
10	6946.00	41.92	-32.08	74.00	59.87	35.18	10.41	63.54	---	---
11	8864.00	43.69	-30.31	74.00	58.78	37.64	11.81	64.54	---	---
12	10940.00	45.66	-28.34	74.00	56.32	40.04	13.17	63.87	---	---
13	11130.00	44.19	-29.81	74.00	55.16	39.54	13.32	63.83	---	---
14	17990.00	50.83	-23.17	74.00	46.99	47.46	18.68	62.30	100	0



Mode :	Mode 6	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Horizontal
Remark :	#6 is system simulator signal which can be ignored.		



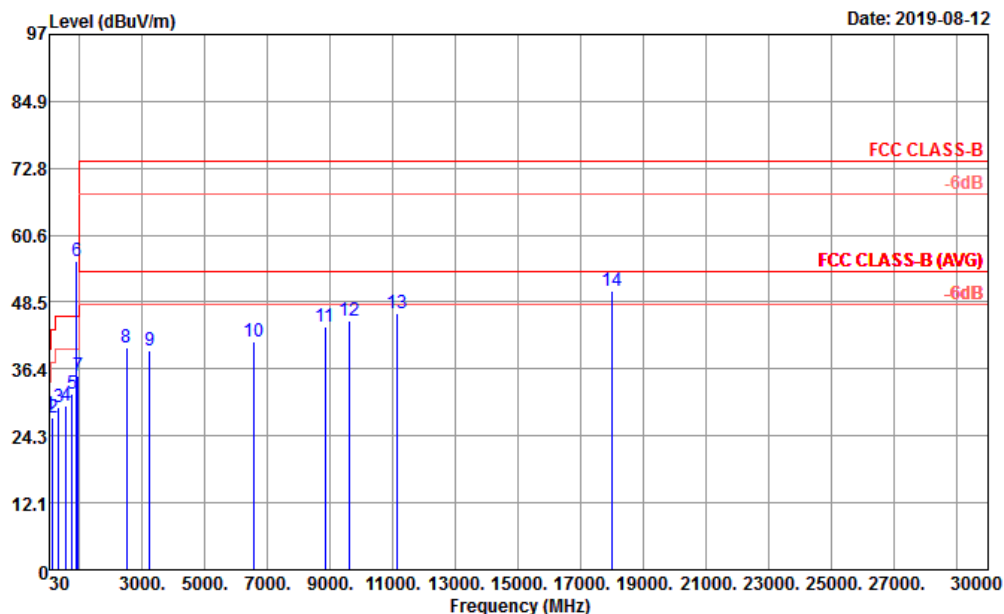
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Loss	Preamp Factor	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	31.94	28.68	-11.32	40.00	36.88	24.14	0.44	32.78	---	---	Peak
2	164.83	24.97	-18.53	43.50	40.21	16.02	1.36	32.62	---	---	Peak
3	260.86	27.07	-18.93	46.00	37.90	19.97	1.80	32.60	---	---	Peak
4	555.74	29.82	-16.18	46.00	33.87	25.96	2.67	32.68	---	---	Peak
5	778.84	31.92	-14.08	46.00	32.72	28.40	3.21	32.41	---	---	Peak
6 *	894.27	59.11			58.64	28.90	3.42	31.85	---	---	Peak
7	956.35	34.95	-11.05	46.00	31.47	31.23	3.52	31.27	100	0	Peak
8	2904.00	40.80	-33.20	74.00	66.92	28.21	7.55	61.88	---	---	Peak
9	3070.00	40.40	-33.60	74.00	65.95	28.58	7.81	61.94	---	---	Peak
10	6544.00	41.86	-32.14	74.00	60.45	34.29	10.17	63.05	---	---	Peak
11	8800.00	44.03	-29.97	74.00	59.00	37.70	11.79	64.46	---	---	Peak
12	10952.00	45.55	-28.45	74.00	56.18	40.05	13.18	63.86	---	---	Peak
13	11140.00	45.56	-28.44	74.00	56.54	39.52	13.33	63.83	---	---	Peak
14	17975.00	50.40	-23.60	74.00	46.96	47.10	18.65	62.31	100	0	Peak



Mode :	Mode 6	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Vertical
Remark :	#6 is system simulator signal which can be ignored.		



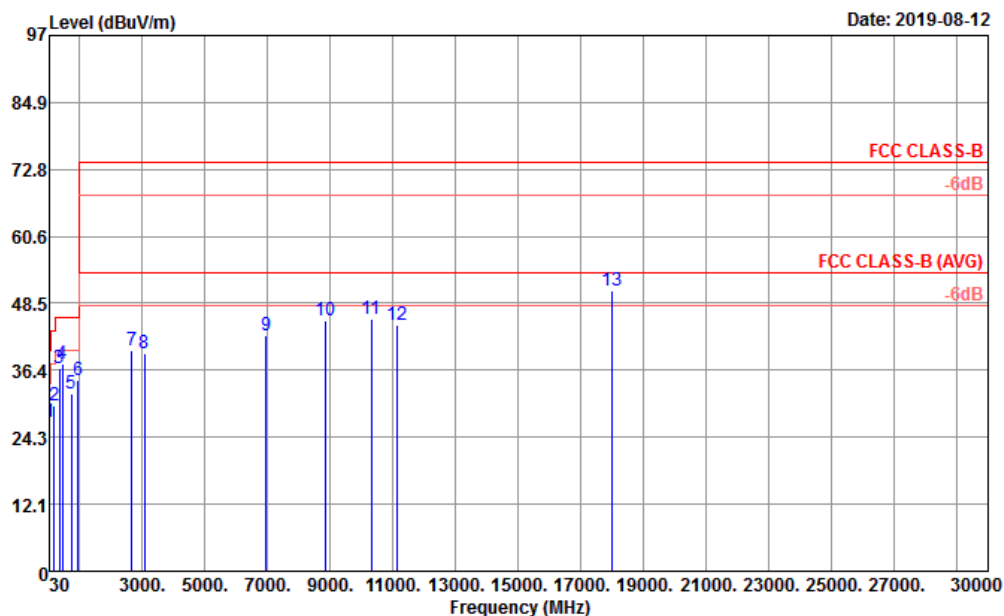
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	30.00	28.11	-11.89	40.00	35.14	25.30	0.45	32.78	---	Peak
2	141.55	27.57	-15.93	43.50	41.56	17.35	1.30	32.64	---	Peak
3	329.73	29.52	-16.48	46.00	40.47	19.69	1.97	32.61	---	Peak
4	569.32	29.64	-16.36	46.00	33.51	26.13	2.70	32.70	---	Peak
5	754.59	31.89	-14.11	46.00	32.87	28.30	3.18	32.46	---	Peak
6 *	894.27	55.90			55.43	28.90	3.42	31.85	---	Peak
7	951.50	35.10	-10.90	46.00	31.85	31.06	3.51	31.32	100	0 Peak
8	2506.00	40.15	-33.85	74.00	67.69	27.21	7.05	61.80	---	Peak
9	3226.00	39.79	-34.21	74.00	65.40	28.50	7.93	62.04	---	Peak
10	6552.00	41.37	-32.63	74.00	59.95	34.30	10.18	63.06	---	Peak
11	8840.00	44.12	-29.88	74.00	59.13	37.70	11.80	64.51	---	Peak
12	9604.00	45.23	-28.77	74.00	59.43	38.42	12.10	64.72	---	Peak
13	11148.00	46.36	-27.64	74.00	57.36	39.50	13.33	63.83	---	Peak
14	17975.00	50.63	-23.37	74.00	47.19	47.10	18.65	62.31	100	0 Peak



Mode :	Mode 7	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Horizontal



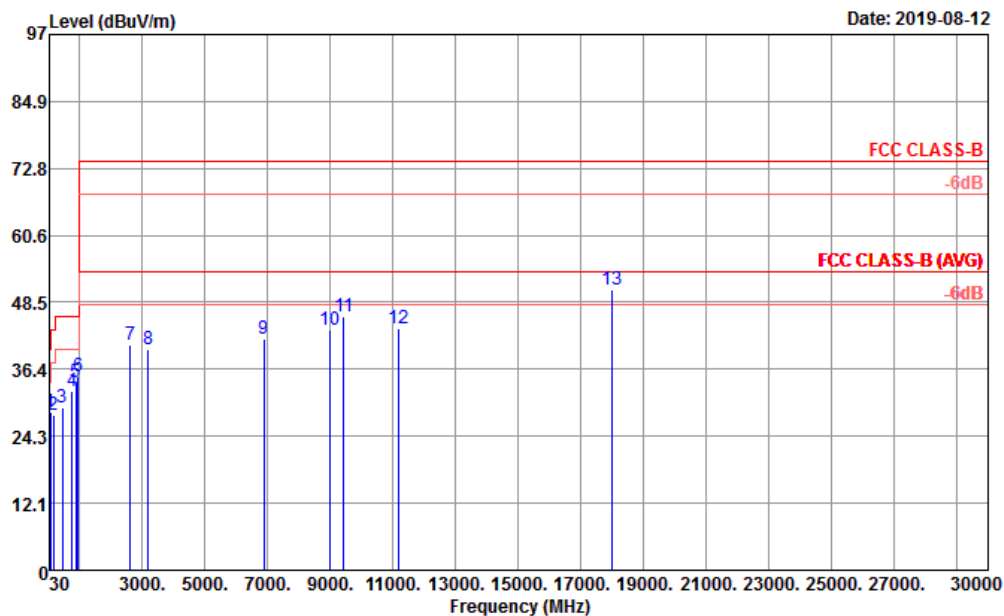
Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_406_0584 HORIZONTAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark	
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	
1	30.97	26.95	-13.05	40.00	34.47	24.81	0.45	32.78	---	---	Peak
2	174.53	29.93	-13.57	43.50	45.81	15.30	1.43	32.61	---	---	Peak
3	360.77	36.62	-9.38	46.00	46.49	20.70	2.05	32.62	---	---	Peak
4	439.34	37.58	-8.42	46.00	45.06	22.77	2.38	32.63	100	0	Peak
5	735.19	32.07	-13.93	46.00	33.53	27.91	3.13	32.50	---	---	Peak
6	940.83	34.69	-11.31	46.00	32.26	30.35	3.50	31.42	---	---	Peak
7	2654.00	40.10	-33.90	74.00	67.20	27.51	7.22	61.83	---	---	Peak
8	3078.00	39.32	-34.68	74.00	64.84	28.61	7.82	61.95	---	---	Peak
9	6946.00	42.62	-31.38	74.00	60.57	35.18	10.41	63.54	---	---	Peak
10	8848.00	45.29	-28.71	74.00	60.31	37.70	11.80	64.52	---	---	Peak
11	10320.00	45.57	-28.43	74.00	58.13	39.28	12.70	64.54	---	---	Peak
12	11114.00	44.64	-29.36	74.00	55.58	39.57	13.31	63.82	---	---	Peak
13	17995.00	50.91	-23.09	74.00	46.95	47.58	18.68	62.30	100	0	Peak



Mode :	Mode 7	Temperature :	21~23°C
Test Engineer :	Yu Wang	Relative Humidity :	64~69%
Test Distance :	3m	Polarization :	Vertical



Site : 03CH10-HY

Condition : FCC CLASS-B 3m HORN_9170_40G_0584 VERTICAL

	Freq	Level	Over Limit	Limit Line	ReadAntenna Level	Cable Factor	Preamp Loss	A/Pos	T/Pos	Remark
	MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg
1	65.89	28.76	-11.24	40.00	48.74	11.91	0.83	32.72	---	Peak
2	156.10	28.12	-15.38	43.50	41.93	17.50	1.32	32.63	---	Peak
3	453.89	29.52	-16.48	46.00	36.65	23.08	2.42	32.63	---	Peak
4	767.20	32.45	-13.55	46.00	33.40	28.30	3.19	32.44	---	Peak
5	876.81	34.13	-11.87	46.00	33.52	29.16	3.40	31.95	---	Peak
6	951.50	35.06	-10.94	46.00	31.81	31.06	3.51	31.32	100	0 Peak
7	2614.00	40.67	-33.33	74.00	67.94	27.36	7.19	61.82	---	Peak
8	3198.00	40.09	-33.91	74.00	65.60	28.60	7.91	62.02	---	Peak
9	6888.00	41.95	-32.05	74.00	60.08	34.90	10.44	63.47	---	Peak
10	8974.00	43.47	-30.53	74.00	58.95	37.35	11.84	64.67	---	Peak
11	9426.00	46.01	-27.99	74.00	59.96	38.55	12.20	64.70	---	Peak
12	11166.00	43.72	-30.28	74.00	54.73	39.47	13.35	63.83	---	Peak
13	17980.00	50.74	-23.26	74.00	47.17	47.22	18.66	62.31	100	0 Peak

————THE END————