



Test report No. : 4788934739A-US-R1-V0
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Issued date : Aug. 6, 2019
FCC ID : 2AFB3M-DSC300

RADIO TEST REPORT

Product : MiiS Horus Control Unit Set

Model Name : MiiS Horus Scope DSC 300

Model No. of Lens : MiiS Horus⁺ Scope DEC 200,
MiiS Horus⁺ Scope DEA 200,
MiiS Horus⁺ Scope DGC 200,
MiiS Horus Scope DAR 100

FCC ID : 2AFB3M-DSC300

Test Regulation : FCC 47 CFR Part 15 Subpart C (Section 15.247)

Received Date : May 28, 2019

Test Date : May 28, 2019 ~ Jul. 5, 2019

Issued Date : Aug. 6, 2019

Applicant : Medimaging Integrated Solution Inc.
3F., No.24-2, Industry E. Rd. IV, Hsinchu Science Park,
Hsinchu, Taiwan 30077, R.O.C.

Issued By : Underwriters Laboratories Taiwan Co., Ltd.
Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd.,
Zhudong Township, Hsinchu County, Taiwan



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Doc No: 17-EM-F0876 / 2.0



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REVISION HISTORY

Original Test Report No.: 4788934739A-US-R1-V0

[illegible]

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1. Attestation of Test Results

APPLICANT: Medimaging Integrated Solution Inc.
3F., No.24-2, Industry E. Rd. IV, Hsinchu Science Park, Hsinchu,
Taiwan 30077, R.O.C.

MANUFACTURER Medimaging Integrated Solution Inc.
3F., No.24-2, Industry E. Rd. IV, Hsinchu Science Park, Hsinchu,
Taiwan 30077, R.O.C.

EUT DESCRIPTION: MiiS Horus Control Unit Set

BRAND: 

MODEL: MiiS Horus Scope DSC 300

MODEL NO. OF LENS: MiiS Horus⁺ Scope DEC 200, MiiS Horus⁺ Scope DEA 200,
MiiS Horus⁺ Scope DGC 200, MiiS Horus Scope DAR 100

SAMPLE STAGE: Production equivalent

DATE of TESTED: May 28, 2019 ~ Jul. 5, 2019

APPLICABLE STANDARDS

STANDARD	Test Results
FCC 47 CFR PART 15 Subpart C (Section 15.247)	PASS

Underwriters Laboratories Taiwan Co., Ltd. tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by Underwriters Laboratories Taiwan Co., Ltd. based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Underwriters Laboratories Taiwan Co., Ltd. and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Underwriters Laboratories Taiwan Co., Ltd. will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Prepared By:



Cindy Hsin
Project Handler

Date : Aug. 6, 2019

Approved and Authorized By:



Stanley Wu
Senior Project Engineer

Date : Aug. 6, 2019

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2. Summary of Test Results

Summary of Test Results		
FCC Clause	Test Items	Result
15.247(a)(2)	6dB Bandwidth	PASS
15.247(b)	Conducted Output Power	PASS
15.247(e)	Power Spectral Density	PASS
15.247(d)	Antenna Port Emission	PASS
15.205 / 15.209 / 15.247(d)	Radiated Emissions and Band Edge Measurement	PASS
15.207	AC Power Conducted Emission	PASS
15.203	Antenna Requirement	PASS

Note:

1. For the Radiated Band Edge test plots were recorded in Appendix I, the Radiated Emissions test plots were recorded in Appendix II.

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3. Test Methodology

The tests documented in this report were performed in accordance with FCC CFR 47 Part 2, FCC CFR 47 Part 15, KDB558074 D01 DTS Meas Guidance v05r02, KDB414788 D01 Radiated Test Site v01r01, ANSI C63.10-2013.

4. Facilities and Accreditation

Test Location	Underwriters Laboratories Taiwan Co., Ltd.
Address	Building B and Building E, No. 372-7, Sec. 4, Zhongxing Rd., Zhudong Township, Hsinchu County, Taiwan
Accreditation Certificate	Underwriters Laboratories Taiwan Co., Ltd. is accredited by TAF, Laboratory Code 3398. The full scope of accreditation can be viewed at http://accreditation.taftw.org.tw/taf/public/basic/viewApplyItems.action?unitNo=3398

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5. Measurement Uncertainty

For statement of conformity, accuracy method (Section 8.2.4 and 8.2.5 of ISO Guide 98-4) was applied as decision rule for measurement in this test report.

The following uncertainties have been calculated to provide a confidence level of 95 % using a coverage factor $k=2$.

Test Item	Measurement Frequency Range	K	U(dB)
Conducted disturbance at mains terminals ports	0.15MHz ~ 30MHz	2	1.7
RF Conducted	9 kHz - 40GHz	2	1.0
Radiated disturbance below 30MHz	9 kHz - 30 MHz	2	2.2
Radiated disturbance below 1 GHz	30MHz ~ 1GHz	2	5.3
Radiated disturbance above 1GHz	1GHz ~ 40GHz	2	4.8

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6. Equipment under Test

6.1. Description of EUT

Product	MiiS Horus Control Unit Set
Brand Name	horus SCOPE
Model Name	MiiS Horus Scope DSC 300
Model No. of Lens	MiiS Horus ⁺ Scope DEC 200, MiiS Horus ⁺ Scope DEA 200, MiiS Horus ⁺ Scope DGC 200, MiiS Horus Scope DAR 100
Operating Frequency	2402MHz ~ 2480MHz
Modulation	GFSK
Transfer Rate	Up to 1 Mbps
Number of Channel	40
Maximum Output Power	-8.59dBm
Normal Voltage	5Vdc (adapter or host equipment) 3.6Vdc for battery
Hardware Version	B1
Software Version	V1.0-190620-0022.01-MI

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Note:

1. The EUT contains following accessory devices

Product	Brand	Model	Description
Adapter	EDAC	EM1005AVRU	I/P:100-240Vac,50-60Hz, 0.6~0.3A O/P: 5.0 Vdc, 1.2A
Battery	Chi Jiun Tech Co.	33.0103350101	3.6 Vdc, 3350 mAh
USB AM TO MINI USB-5P	N/A	N/A	1.8 meter, shielded with core
HDMI cable	PX	HDMI-2MS	2 meter, shielded without core
Charging Station	Miis	Charging Station DSC 300	N/A
SD card	Kingston	SDCS/16G	16 GB
Portable Chin Rest	MiiS Horus	CR 100	(Optional)
Slit-Lamp Jig	MiiS Horus	Slit-Lamp Jig	(Optional)

2. The above EUT information is declared by manufacturer and for more detailed features description, please refer the manufacturer's or user's manual.

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6.2. Channel List

40 channels are provided to this EUT:

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

6.3. Test Condition

Test Item	Test Site No.	Environmental Condition	Input Power	Test Date	Tested by
Antenna Port Conducted Measurement	SR4	25°C / 65%RH	120Vac / 60 Hz	May 28, 2019 ~ Jun. 05., 2019	Howard Kao
Radiated Spurious Emission	966-2	24°C / 68%RH	120Vac / 60 Hz	May 28, 2019 ~ Jul. 05., 2019	Will Chen
AC power Line Conducted Emission	SR1	23°C / 60%RH	120Vac / 60 Hz	Jun. 24, 2019 ~ Jun. 25, 2019	Will Chen

FCC Test Firm Registration Number: 498077

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6.4. Description Of Available Antennas

Antenna	Brand Name	Model Name	Antenna Type	Antenna Gain(dBi)
Chain(1)	Aristotle	RFA-02-AP303-70-200	PCB	2

Note: The above antenna information was provided from customer and for more detailed features description, please refer the manufacturer's specification or user's manual.

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6.5. Test Mode Applicability and Tested Channel Detail

Product :	MiiS Horus Scope DSC 300 (Control unit)				
Combination :	MiiS Horus ⁺ Scope DGC 200 (Digital eye surface camera)				
Test item	Modulation Type	Available Channel	Test Channel	Data Rate	Power Mode
Radiated Emissions (Above 1GHz)	GFSK	0 to 39	0,19,39	1.0	Adapter
Radiated Emissions (Below 1GHz)	GFSK	0 to 39	0	1.0	
AC Power Line Conducted Emission	GFSK	0 to 39	0	1.0	
Antenna Port Conducted Measurement	GFSK	0 to 39	0,19,39	1.0	
Radiated Emissions (Below 1GHz)	GFSK	0 to 39	0	1.0	Charging Station
AC Power Line Conducted Emission	GFSK	0 to 39	0	1.0	
Combinations :	1. MiiS Horus Scope DAR 100 (Digital auto refractometer) 2. MiiS Horus ⁺ Scope DEA 200 (Digital eye anterior camera) 3. MiiS Horus ⁺ Scope DEC 200 (Digital eye fundus camera) 4. MiiS Horus ⁺ Scope DEC 200 (Digital eye fundus camera) with CR-100 5. MiiS Horus ⁺ Scope DEC 200 (Digital eye fundus camera) with Slit lamp jig				
Test item	Modulation Type	Available Channel	Test Channel	Data Rate	Power Mode
Radiated Emissions	GFSK	0 to 39	0	1.0	Adapter

Note:

1. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
2. For below 1 GHz radiated emission and AC power line conducted emission were performed with the EUT set to transmit at the channel with highest output power as worst-case.
3. For Antenna Port Conducted Measurement, this item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
4. The fundamental of the EUT was investigated in three orthogonal axes X/Y/Z, it was determined that Y axis was worst-case . Therefore, all final radiated testing was performed with the EUT in Y axis.
5. For 9 kHz to 30 MHz, the loop antenna is studied in three polarization parallel/vertical/ground parallel directions, and parallel polarization has been determined to be the worst case of pre-scan radiation.
6. Pre-scan radiation has been determined by the product MiiS Horus Scope DSC 300 with MiiS Horus⁺ Scope DGC 200 (the worst case). Therefore, other combinations mode were verified test at Radiated Emissions only.

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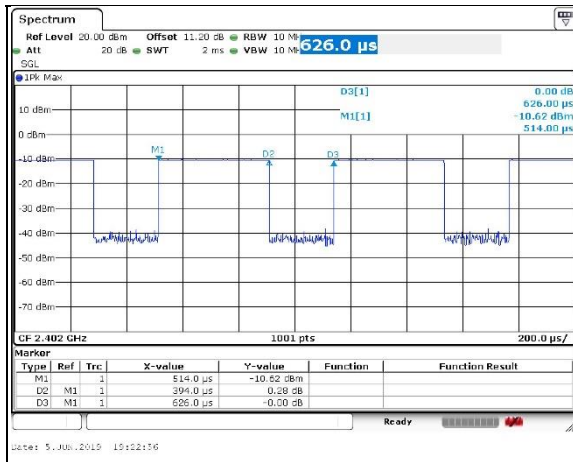
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6.6. Duty cycle

Duty cycle of test signal is < 98 %, duty factor shall be considered.

Duty cycle = $0.394/0.626 = 0.629$, Duty factor = $10 * \log(1/0.629) = 2.01$





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7. Test Equipment

Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Radiated Spurious Emission					
Spectrum Analyzer	Keysight	N9010A	MY56070827	Nov. 8, 2018	1 year
EMI Test Receiver	Rohde & Schwarz	ESR7	101754	Nov. 8, 2018	1 year
Loop Antenna	ETS lindgren	6502	00213440	Dec. 11, 2018	1 year
Trilog-Broadband Antenna with 5dB Attenuator	Schwarzbeck & EMCI	VULB 9168 & N-6-05	774 & AT-N0538	Jan. 14, 2019	1 year
Horn Antenna (1-18 GHz)	Schwarzbeck	BBHA 9120 D	01690	Jan. 25, 2019	1 year
Horn Antenna (18-40 GHz)	Schwarzbeck	BBHA 9170	781	Jan.16, 2019	1 year
Preamplifier (30-1000 MHz)	EMCI	EMC330E	980405	Jan. 30, 2019	1 year
Preamplifier (1-18 GHz)	EMCI	EMC051835BE	980406	Jan. 29, 2019	1 year
Preamplifier (18-40GHz)	EMCI	EMC184040SE E	980426	May 8, 2019	1 year
RF Cable (9 KHz~18 GHz)	UltraPhase & EMC Instrument	A1K50-UP0358-A1K50-1500&EMC106-NM-SM-2500/7000	170111-4&170219/170102	Jan. 29, 2019	1 year
RF Cable (18 GHz~40 GHz)	UltraPhase	K1K50-UP0264-K1K50-2500/2500/600	170214-2/170214-6/170111-1	Jan. 29, 2019	1 year

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Test Equipment List					
Equipment	Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Interval
Antenna Port Conducted Measurement					
Spectrum Analyzer	Keysight	N9010A	MY56070834	Nov. 8, 2018	1 year
Spectrum Analyzer	Rohde & Schwarz	FSV40	101490	Sep. 25, 2018	1 year
Pulse Power Sensor	Anrisu	MA2411B	1531202	Dec. 17, 2018	1 year
Power Meter	Anrisu	ML2495A	1645002	Dec. 17, 2018	1 year
AC power Line Conducted Emission					
EMI Test Receiver	Rohde & Schwarz	ESR7	101753	Nov. 14, 2018	1 year
Two-Line V-Network	Rohde & Schwarz	ENV216	102136	Aug. 5, 2018	1 year
Impuls-Begrenzer Pulse Limiter	Rohde & Schwarz	ESH3-Z2	102219-Qt	Aug. 2, 2018	1 year
Cables	Huber+Suhner	RG 214/U	FCC-BCICF-4_RF	Jan. 29, 2019	1 year

UL Software		
Description	Name	Version
Radiated measurement	EZ EMC	1.1.4.2
Conducted measurement	Keysight.TestSystem	1.0.0.0
AC power Line Conducted Emission	EZ EMC	1.1.4.2

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8. Description of Test Setup

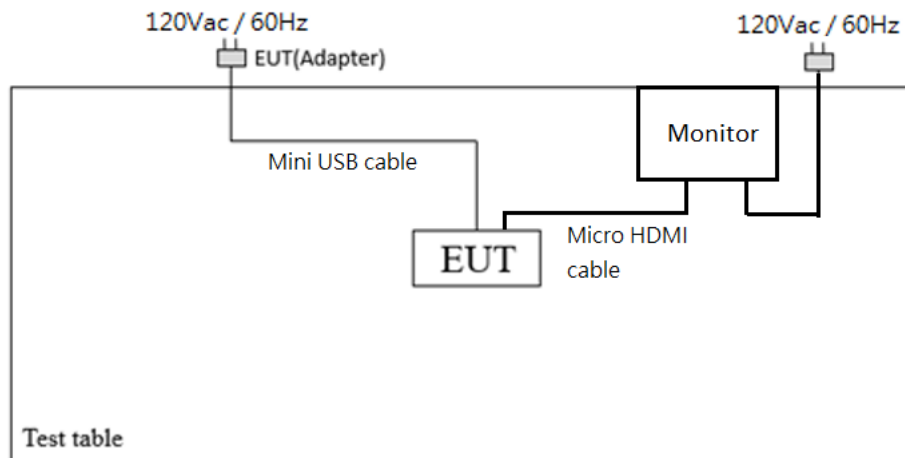
Support Equipment

Item	Equipment	Brand Name	Model Name	S/N
1	Notebook	DELL	Latitude E5470	3JFKWF2
2	Monitor	DELL	UP3216Q	CN-02GX26-74445-72O-915P

Test Setup

Controlled using a bespoke application (RTL11ac_8822BU_USB_v6.00) on a test Notebook. The application was used to enable a continuous transmission mode and to select the test channels, data rates, modulation schemes and power setting as required.

Setup Diagram for Test



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9. Test Results

9.1. 6dB Bandwidth

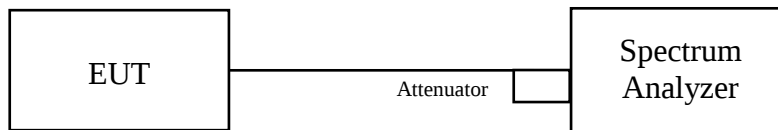
Requirements

The minimum 6 dB bandwidth shall be at least 500 kHz.

Test procedure

- Set resolution bandwidth (RBW) = 100kHz
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW, Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission

Test Setup

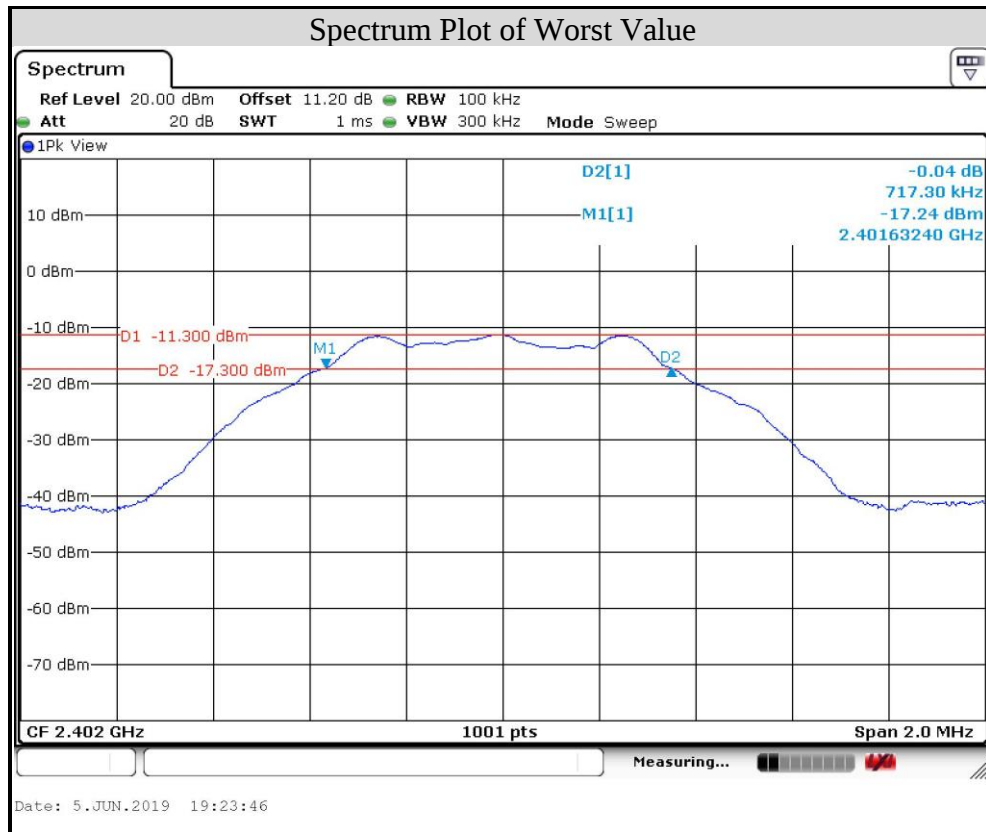


The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.



Test Data

Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Minimum Limit (MHz)	Pass / Fail
0	2402	0.7173	0.5	Pass
19	2440	0.7393	0.5	Pass
39	2480	0.7373	0.5	Pass



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9.2. Conducted output power

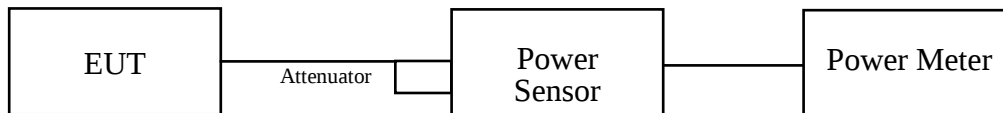
Requirements

For systems using digital modulation in the 2400-2483.5 MHz bands: 1 Watt.

Test Procedure

A peak power sensor was used on the output port of the EUT. A power meter was used to read the response of the peak power sensor. Record the power level.

Test Setup



The loss between RF output port of the EUT and the input port of the Power Meter has been taken into consideration.

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Test Data

Channel	Frequency (MHz)	Peak Power (mW)	Peak Power (dBm)	Limit (dBm)	Pass/Fail
0	2402	0.14	-8.59	30	Pass
19	2440	0.12	-9.16	30	Pass
39	2480	0.10	-10.13	30	Pass

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9.3. Power Spectral Density

Requirements

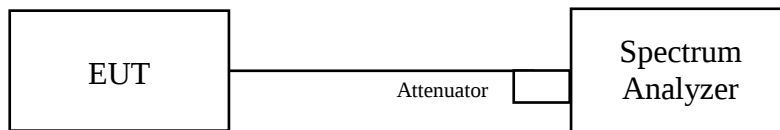
The Maximum of Power Spectral Density Measurement is 8dBm in any 3 kHz.

Test procedure

For Peak power

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- Set the VBW $\geq 3 \times \text{RBW}$.
- Detector = peak.
- Sweep time = auto couple.
- Trace mode = max hold.
- Allow trace to fully stabilize.
- Use the peak marker function to determine the maximum amplitude level within the RBW.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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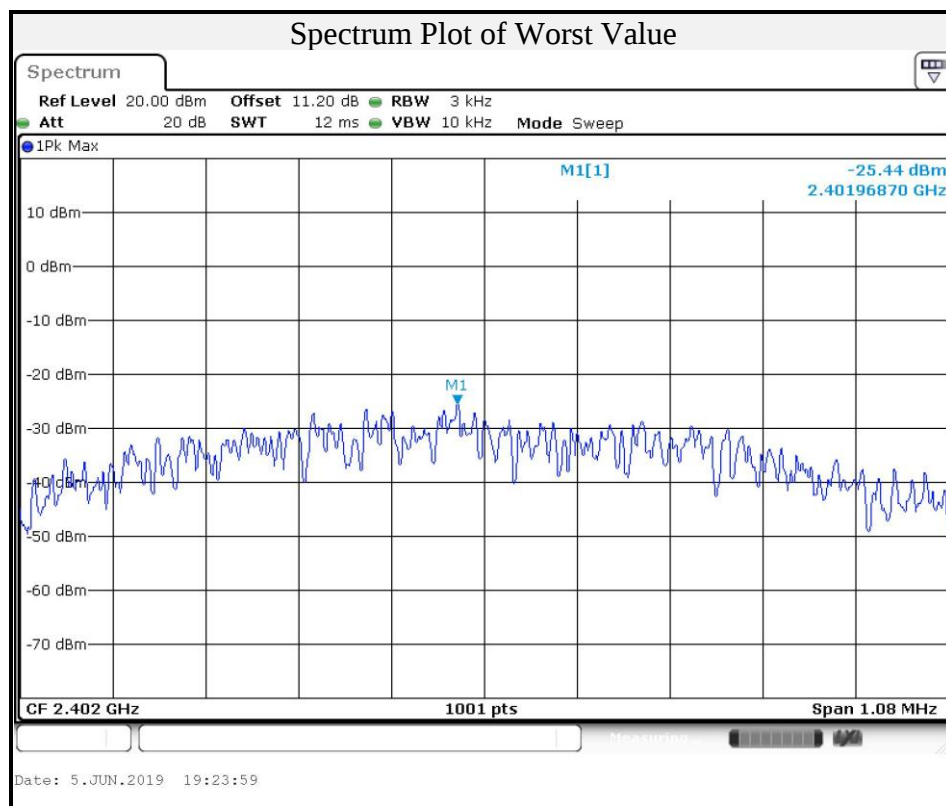
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Test Data

Channel	Freq. (MHz)	PSD (dBm/3kHz)	Limit (dBm/3kHz)	Pass /Fail
0	2402	-25.44	8	Pass
19	2440	-25.88	8	Pass
39	2480	-26.85	8	Pass



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9.4. Conducted Out of Band Emission

Requirements

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b) (3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209 (a) is not required.

Test procedure

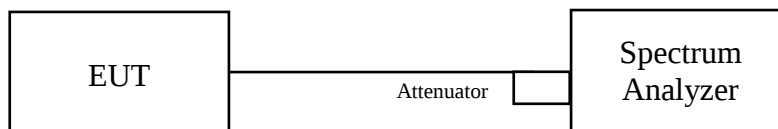
Measurement Procedure REF

1. Set the RBW = 100 kHz.
2. Set the VBW $\geq$ 300 kHz.
3. Set the span to 1.5 times the DTS bandwidth.
4. Detector = peak.
5. Sweep time = auto couple.
6. Trace mode = max hold.
7. Allow trace to fully stabilize.
8. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.

Measurement Procedure OOBE

1. Set RBW = 100 kHz.
2. Set VBW $\geq$ 300 kHz.
3. Detector = peak.
4. Sweep = auto couple.
5. Trace Mode = max hold.
6. Allow trace to fully stabilize.
7. Use the peak marker function to determine the maximum amplitude level.

Test Setup



The loss between RF output port of the EUT and the input port of the Spectrum Analyzer has been taken into consideration.

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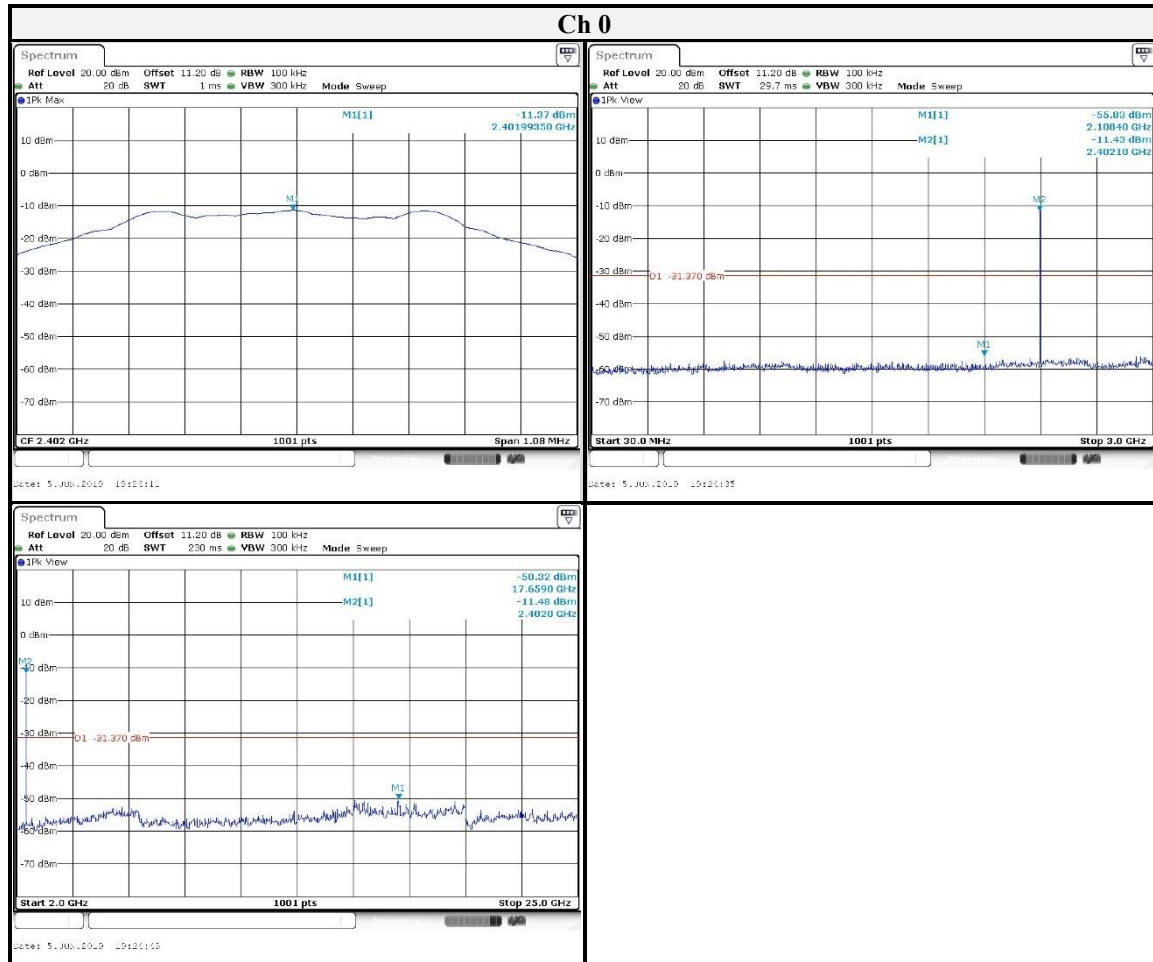
Facsimile (FAX) : +886-3-583-7948

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Test Data



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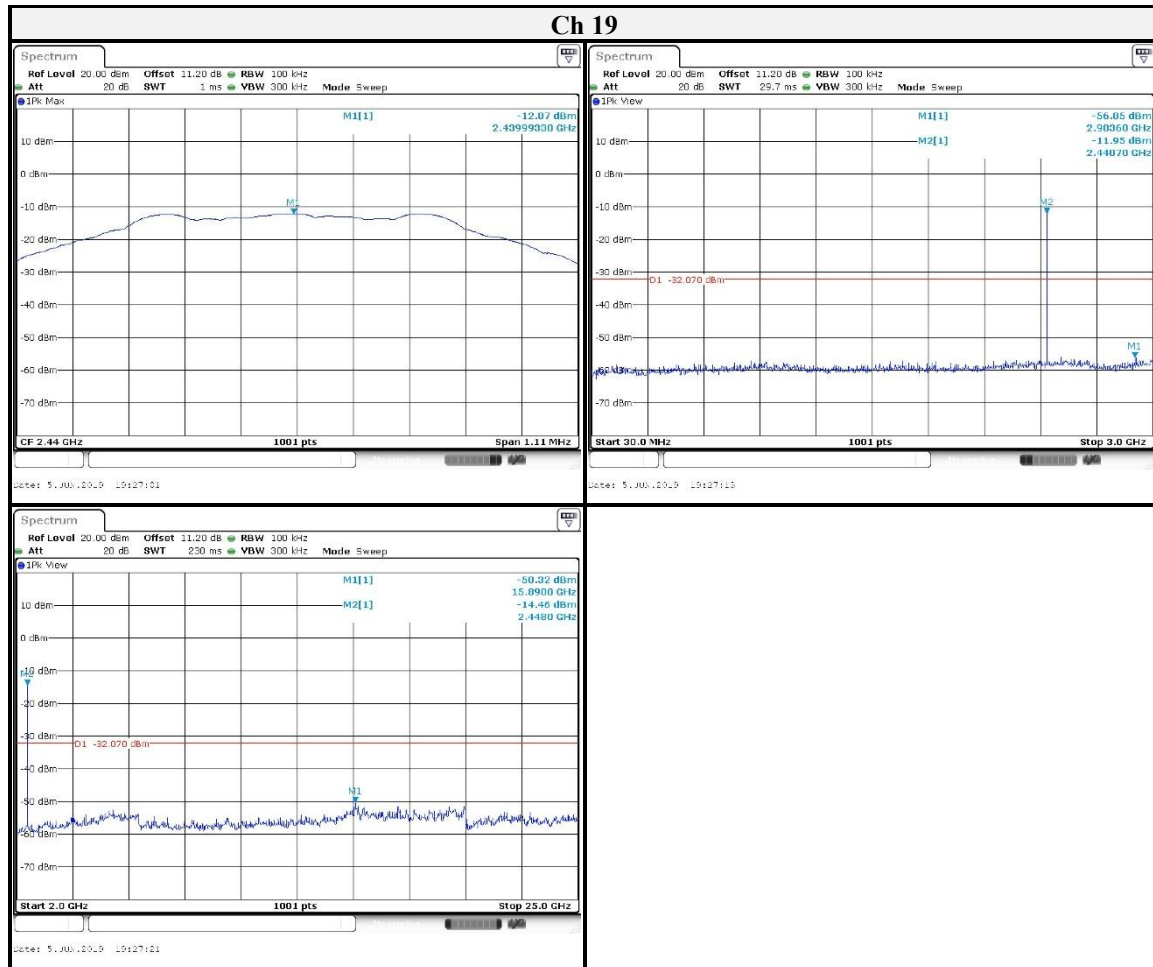
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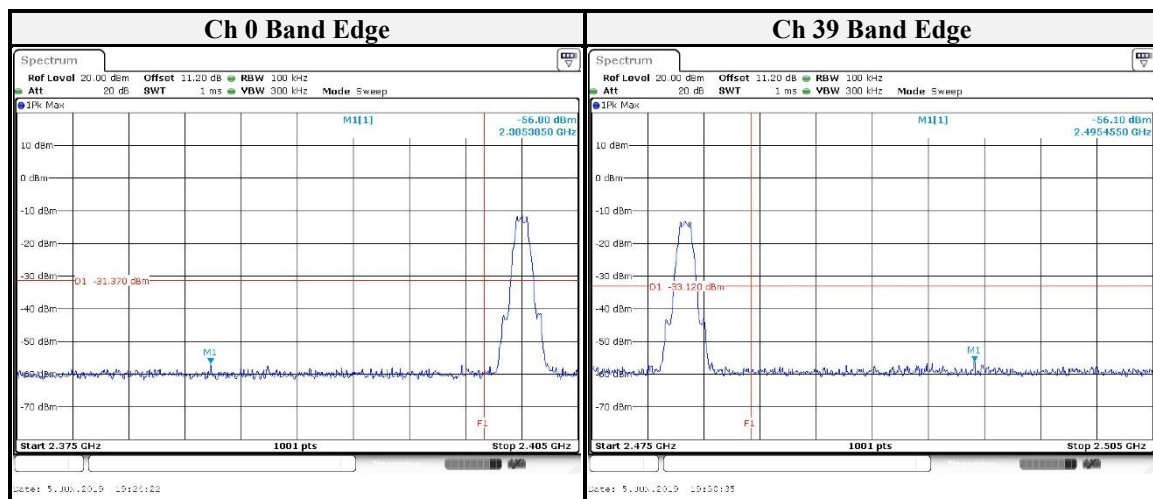
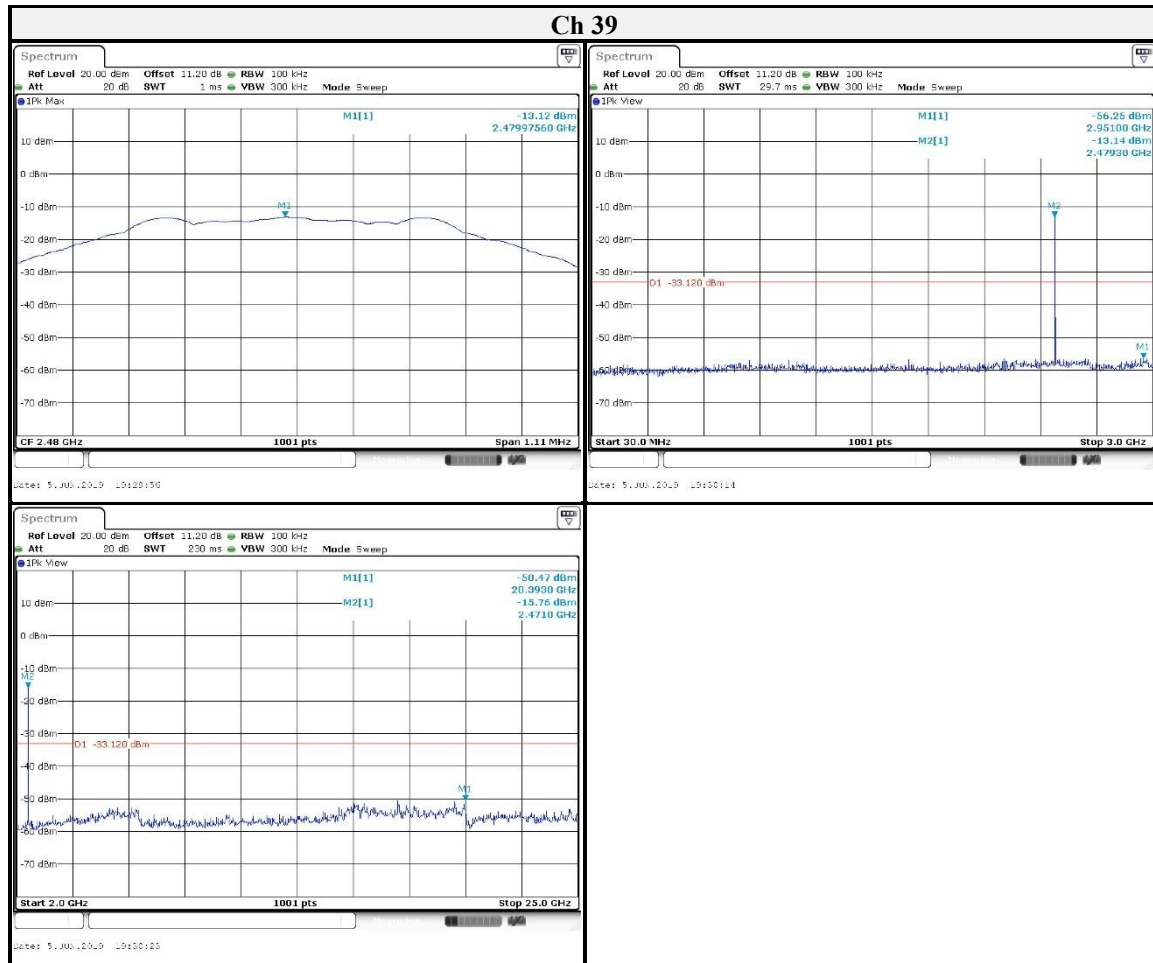
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9.5. Radiated Spurious Emission

Requirements

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table. Other emissions shall be at least 20dB below the highest level of the desired power:

Frequency(MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

NOTE:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

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Test Procedures

[For 9 kHz ~ 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 30MHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

[For above 30 MHz]

- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. For measurement below 1GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
- f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

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Note:

- a. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
- b. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
- c. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle < 98%) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.

Configuration	Average	
	RBW	VBW
Bluetooth LE	1MHz	3 kHz

Note: Refer to section 6.6 for duty cycle.

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

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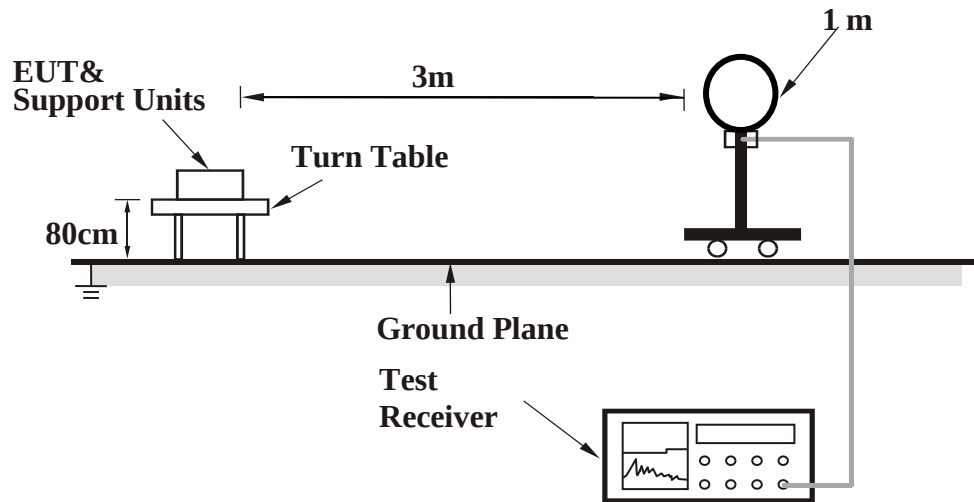
Telephone :+886-2-7737-3000

Facsimile (FAX) :+886-3-583-7948

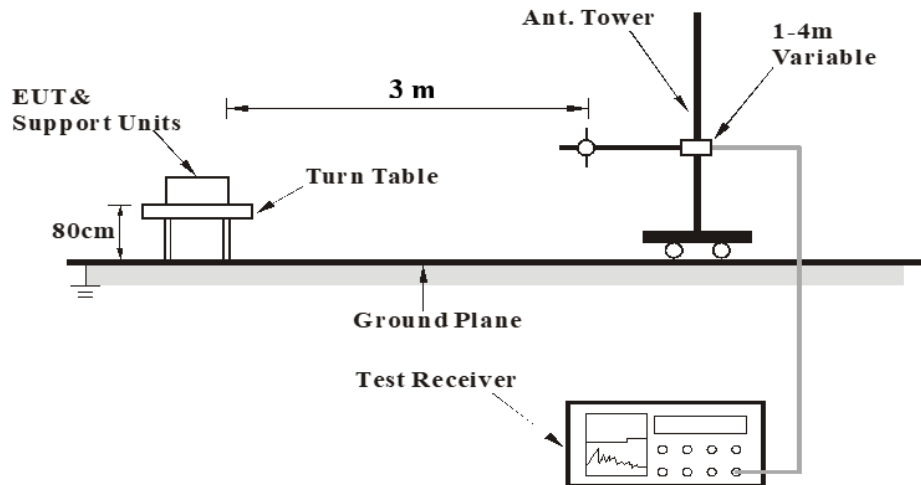
Doc No: 17-EM-F0876 / 2.0

Test Setup

<Frequency Range 9 kHz ~ 30 MHz>



<Frequency Range 30 MHz ~ 1 GHz >



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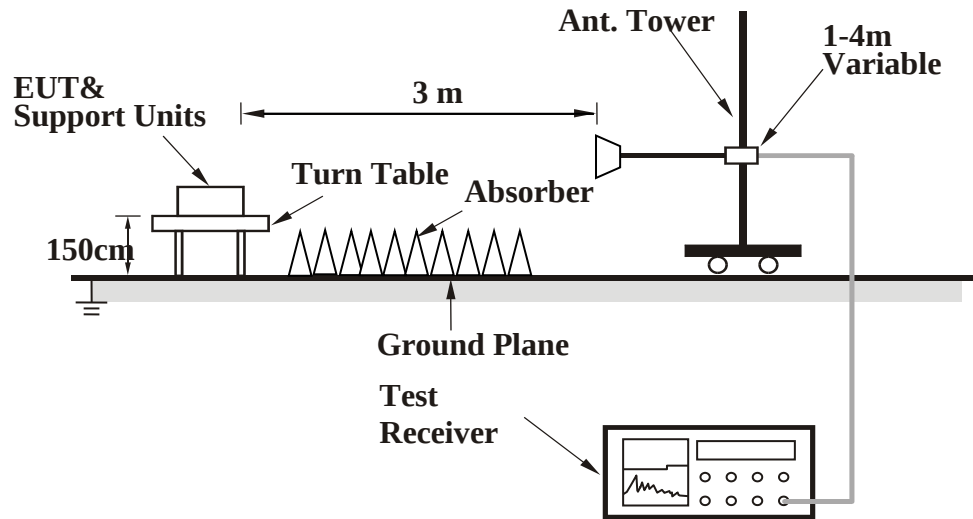
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<Frequency Range above 1 GHz>



For the actual test configuration, please refer to the Setup Configurations.



Test Data

Above 1GHz Data

Model No. of Lens :MiiS Horus⁺ Scope DGC 200

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 26.5 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2356.800	54.44	-7.70	46.74	74.00	-27.26	peak
@	2402.000	80.88	-7.58	73.30	-	-	peak
-	2314.400	41.76	-7.48	34.28	54.00	-19.72	AVG
@	2402.000	80.14	-7.58	72.56	-	-	AVG
*	4804.000	40.67	-3.09	37.58	74.00	-36.42	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2326.000	53.97	-7.55	46.42	74.00	-27.58	peak
@	2402.000	80.98	-7.58	73.40	-	-	peak
-	2370.800	42.07	-7.66	34.41	54.00	-19.59	AVG
@	2402.000	80.28	-7.58	72.70	-	-	AVG
*	4804.000	40.81	-3.09	37.72	74.00	-36.28	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 19	Frequency Range	1 GHz ~ 26.5 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2337.800	53.75	-7.63	46.12	74.00	-27.88	peak
@	2440.000	79.53	-7.70	71.83	-	-	peak
-	2499.600	53.23	-7.58	45.65	74.00	-28.35	peak
-	2318.000	41.69	-7.49	34.20	54.00	-19.80	AVG
@	2440.000	78.84	-7.70	71.14	-	-	AVG
-	2485.200	41.99	-7.63	34.36	54.00	-19.64	AVG
*	4880.000	39.92	-3.02	36.90	74.00	-37.10	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2390.000	56.14	-7.60	48.54	74.00	-25.46	peak
@	2440.000	80.31	-7.70	72.61	-	-	peak
-	2484.600	54.30	-7.63	46.67	74.00	-27.33	peak
-	2342.600	42.07	-7.67	34.40	54.00	-19.60	AVG
@	2440.000	79.51	-7.70	71.81	-	-	AVG
-	2483.500	42.02	-7.63	34.39	54.00	-19.61	AVG
*	4880.000	40.22	-3.02	37.20	74.00	-36.80	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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EUT Test Condition		Measurement Detail	
Channel	Channel 39	Frequency Range	1 GHz ~ 26.5 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2480.000	78.98	-7.64	71.34	-	-	peak
-	2497.800	54.10	-7.58	46.52	74.00	-27.48	peak
@	2480.000	78.08	-7.64	70.44	-	-	AVG
-	2483.500	41.51	-7.63	33.88	54.00	-20.12	AVG
*	4960.000	40.23	-2.89	37.34	74.00	-36.66	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
@	2480.000	80.00	-7.64	72.36	-	-	peak
-	2497.000	54.05	-7.59	46.46	74.00	-27.54	peak
@	2480.000	79.30	-7.64	71.66	-	-	AVG
-	2483.500	41.62	-7.63	33.99	54.00	-20.01	AVG
*	4960.000	41.06	-2.89	38.17	74.00	-35.83	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Model No. of Lens :MiiS Horus Scope DAR 100

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 26.5 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2320.600	54.08	-7.51	46.57	74.00	-27.43	peak
@	2402.000	78.99	-7.58	71.41	-	-	peak
-	2383.000	41.80	-7.62	34.18	54.00	-19.82	AVG
@	2402.000	78.11	-7.58	70.53	-	-	AVG
*	4804.000	40.22	-3.09	37.13	74.00	-36.87	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2370.200	54.54	-7.67	46.87	74.00	-27.13	peak
@	2402.000	80.44	-7.58	72.86	-	-	peak
-	2313.800	41.78	-7.47	34.31	54.00	-19.69	AVG
@	2402.000	79.67	-7.58	72.09	-	-	AVG
*	4804.000	42.56	-3.09	39.47	74.00	-34.53	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Model No. of Lens : MiiS Horus+ Scope DEA 200

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 26.5 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2329.600	54.01	-7.58	46.43	74.00	-27.57	peak
@	2402.000	80.87	-7.58	73.29	-	-	peak
-	2380.000	41.97	-7.63	34.34	54.00	-19.66	AVG
@	2402.000	80.21	-7.58	72.63	-	-	AVG
*	4804.000	41.92	-3.09	38.83	74.00	-35.17	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2380.800	54.54	-7.63	46.91	74.00	-27.09	peak
@	2402.000	80.62	-7.58	73.04	-	-	peak
-	2314.000	41.80	-7.47	34.33	54.00	-19.67	AVG
@	2402.000	79.82	-7.58	72.24	-	-	AVG
*	4804.000	41.06	-3.09	37.97	74.00	-36.03	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Model No. of Lens : MiiS Horus+ Scope DEC 200

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 26.5 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2312.000	53.97	-7.46	46.51	74.00	-27.49	peak
@	2402.000	80.78	-7.58	73.20	-	-	peak
-	2362.000	42.09	-7.69	34.40	54.00	-19.60	AVG
@	2402.000	80.08	-7.58	72.50	-	-	AVG
*	4804.000	40.64	-3.09	37.55	74.00	-36.45	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2320.600	53.91	-7.51	46.40	74.00	-27.60	peak
@	2402.000	80.50	-7.58	72.92	-	-	peak
-	2389.800	41.97	-7.60	34.37	54.00	-19.63	AVG
@	2402.000	79.77	-7.58	72.19	-	-	AVG
*	4804.000	41.31	-3.09	38.22	74.00	-35.78	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Model No. of Lens : MiiS Horus+ Scope DEC 200 with CR-100

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 26.5 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2375.800	54.15	-7.65	46.50	74.00	-27.50	peak
@	2402.000	80.72	-7.58	73.14	-	-	peak
-	2329.000	41.91	-7.57	34.34	54.00	-19.66	AVG
@	2402.000	80.03	-7.58	72.45	-	-	AVG
*	4804.000	43.25	-3.09	40.16	74.00	-33.84	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2315.600	54.04	-7.48	46.56	74.00	-27.44	peak
@	2402.000	80.70	-7.58	73.12	-	-	peak
-	2372.200	41.81	-7.66	34.15	54.00	-19.85	AVG
@	2402.000	79.96	-7.58	72.38	-	-	AVG
*	4804.000	40.71	-3.09	37.62	74.00	-36.38	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. " * ": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788934739A-US-R1-V0
Page : 39 of 74
Issued date : Aug. 6, 2019
FCC ID : 2AFB3M-DSC300

Model No. of Lens : MiiS Horus+ Scope DEC 200 with Slit lamp jig

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	1 GHz ~ 26.5 GHz

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2321.200	53.33	-7.52	45.81	74.00	-28.19	peak
@	2402.000	79.75	-7.58	72.17	-	-	peak
-	2390.000	41.98	-7.60	34.38	54.00	-19.62	AVG
@	2402.000	79.10	-7.58	71.52	-	-	AVG
*	4804.000	42.78	-3.09	39.69	74.00	-34.31	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	2388.200	55.49	-7.61	47.88	74.00	-26.12	peak
@	2402.000	78.13	-7.58	70.55	-	-	peak
-	2315.400	41.75	-7.48	34.27	54.00	-19.73	AVG
@	2402.000	77.28	-7.58	69.70	-	-	AVG
*	4804.000	41.69	-3.09	38.60	74.00	-35.40	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. "@": Fundamental Frequency.
5. "*": The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
6. The other emission levels were very low against the limit.

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Doc No: 17-EM-F0876 / 2.0



9 kHz ~ 30 MHz Data

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

No non-compliance noted:

KDB 414788 D01 OATS and Chamber Correlation Justification

- Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field.

- OATs and chamber correlation testing had been performed and chamber measured test results is the worst case test result.

Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.

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Doc No: 17-EM-F0876 / 2.0



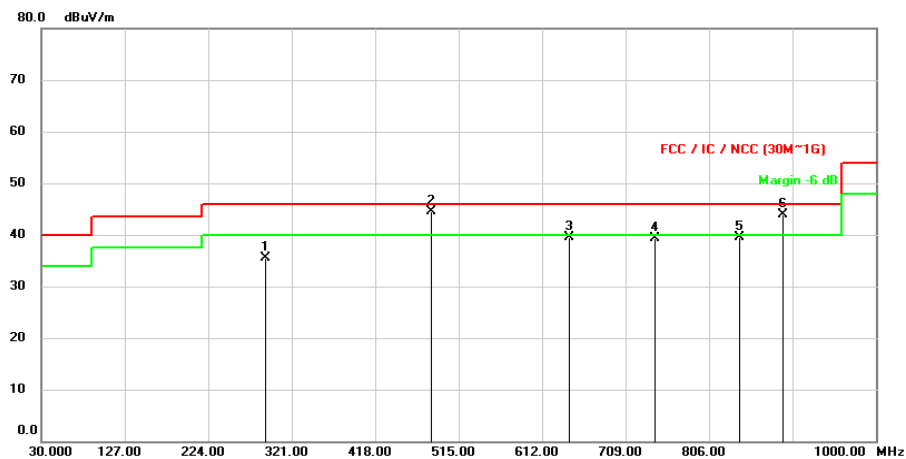
30 MHz ~ 1 GHz Data

Model No. of Lens :MiiS Horus⁺ Scope DGC 200

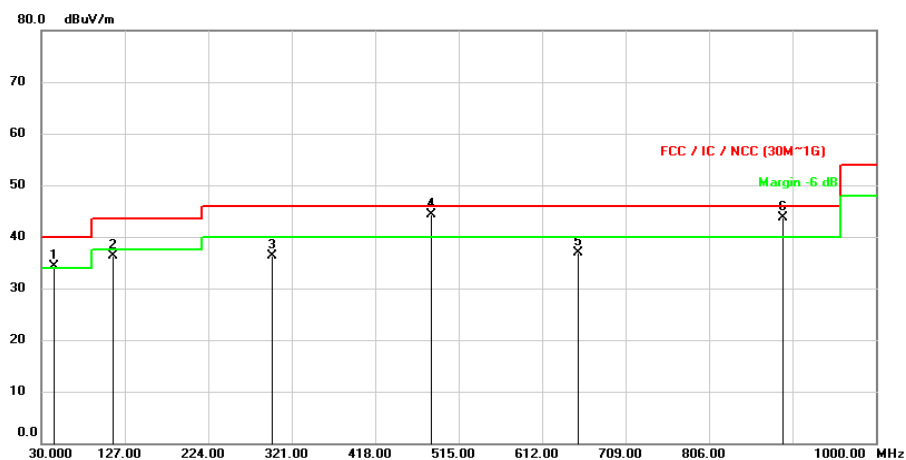
Adapter Mode

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788934739A-US-R1-V0
Page : 42 of 74
Issued date : Aug. 6, 2019
FCC ID : 2AFB3M-DSC300

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	289.7337	49.60	-14.19	35.41	46.00	-10.59	peak
-	483.3133	54.11	-9.68	44.43	46.00	-1.57	peak
-	643.4927	45.81	-6.37	39.44	46.00	-6.56	peak
-	742.5297	43.89	-4.68	39.21	46.00	-6.79	peak
-	841.5667	42.94	-3.40	39.54	46.00	-6.46	peak
-	891.0367	46.71	-2.75	43.96	46.00	-2.04	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	44.1297	49.55	-15.23	34.32	40.00	-5.68	peak
-	113.8080	54.42	-18.21	36.21	43.50	-7.29	peak
-	297.0087	50.40	-14.14	36.26	46.00	-9.74	peak
-	482.4727	53.99	-9.69	44.30	46.00	-1.70	peak
-	653.3867	43.14	-6.23	36.91	46.00	-9.09	peak
-	891.0367	46.49	-2.75	43.74	46.00	-2.26	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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Facsimile (FAX) :+886-3-583-7948

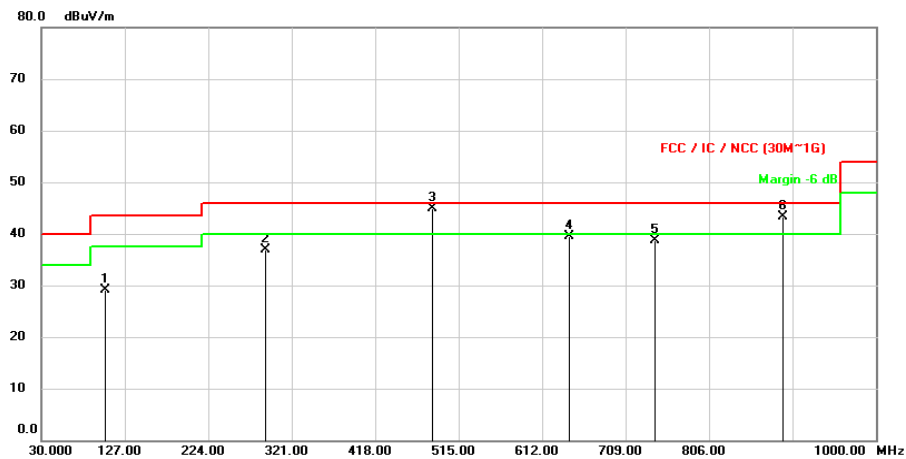
Doc No: 17-EM-F0876 / 2.0



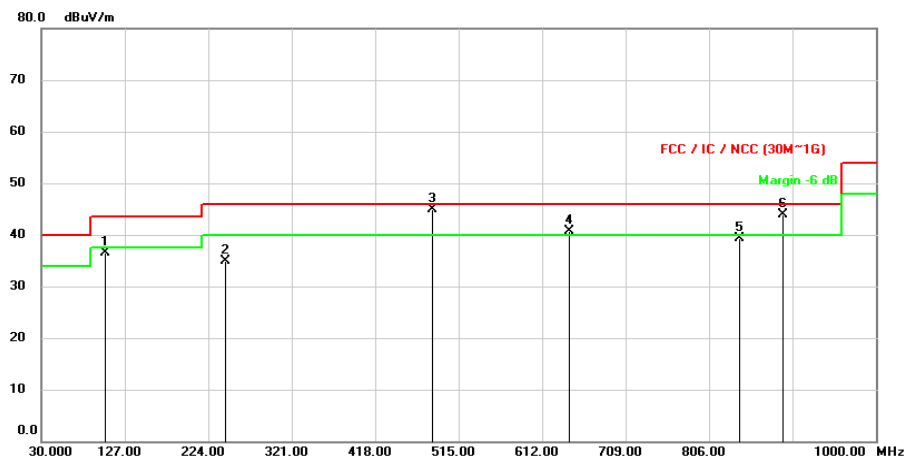
Charging Station Mode

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Doc No: 17-EM-F0876 / 2.0



Test report No. : 4788934739A-US-R1-V0
Page : 44 of 74
Issued date : Aug. 6, 2019
FCC ID : 2AFB3M-DSC300

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	104.6900	48.32	-19.21	29.11	43.50	-14.39	peak
-	289.0547	51.04	-14.20	36.84	46.00	-9.16	peak
-	483.6690	54.52	-9.68	44.84	46.00	-1.16	peak
-	643.5250	45.86	-6.37	39.49	46.00	-6.51	peak
-	742.5297	43.37	-4.68	38.69	46.00	-7.31	peak
-	891.0367	45.98	-2.75	43.23	46.00	-2.77	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	103.9787	55.78	-19.32	36.46	43.50	-7.04	peak
-	243.4970	50.72	-15.86	34.86	46.00	-11.14	peak
-	483.4427	54.52	-9.68	44.84	46.00	-1.16	peak
-	643.5573	47.10	-6.37	40.73	46.00	-5.27	peak
-	841.5343	42.74	-3.40	39.34	46.00	-6.66	peak
-	891.0690	46.67	-2.75	43.92	46.00	-2.08	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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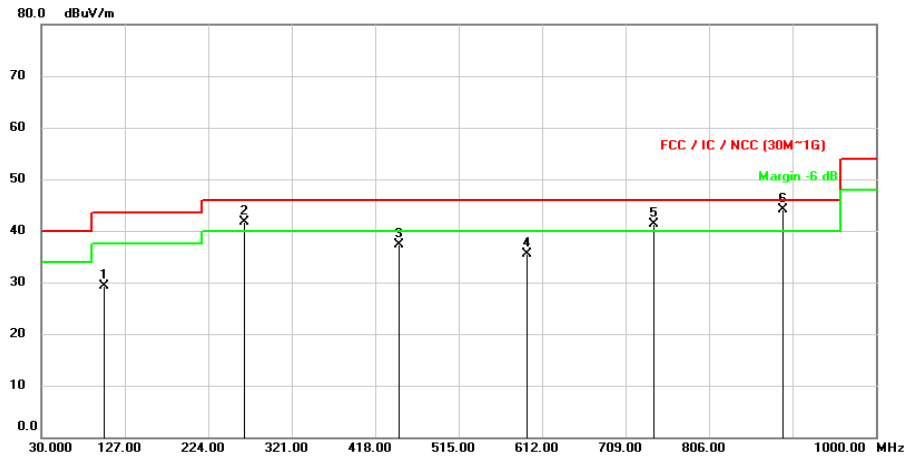
Doc No: 17-EM-F0876 / 2.0



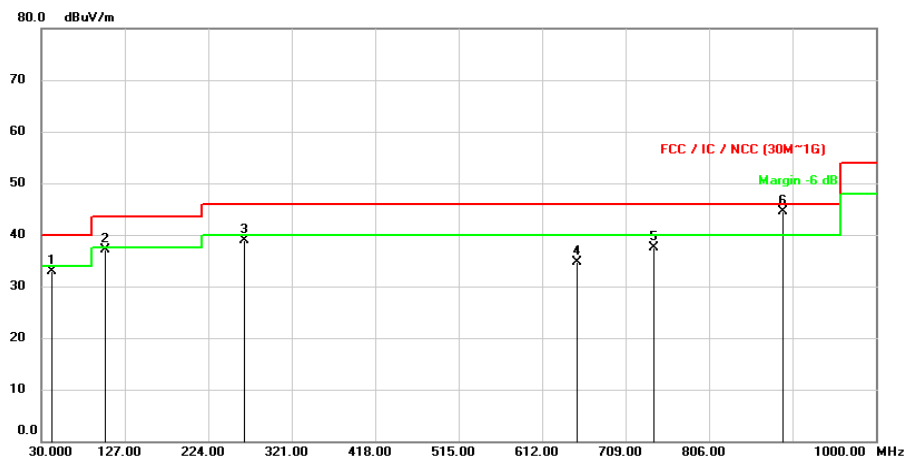
Model No. of Lens : MiiS Horus Scope DAR 100

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Doc No: 17-EM-F0876 / 2.0



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Issued date : Aug. 6, 2019
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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	103.6230	48.72	-19.38	29.34	43.50	-14.16	peak
-	266.4859	56.96	-15.22	41.74	46.00	-4.26	peak
-	445.5157	47.59	-10.25	37.34	46.00	-8.66	peak
-	594.0227	42.62	-7.12	35.50	46.00	-10.50	peak
-	742.5620	45.96	-4.68	41.28	46.00	-4.72	peak
-	891.0367	46.86	-2.75	44.11	46.00	-1.89	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	40.9287	48.38	-15.51	32.87	40.00	-7.13	peak
-	104.3020	56.47	-19.27	37.20	43.50	-6.30	peak
-	266.4859	54.18	-15.22	38.96	46.00	-7.04	peak
-	652.7400	40.92	-6.24	34.68	46.00	-11.32	peak
-	742.5620	42.13	-4.68	37.45	46.00	-8.55	peak
-	891.0367	47.21	-2.75	44.46	46.00	-1.54	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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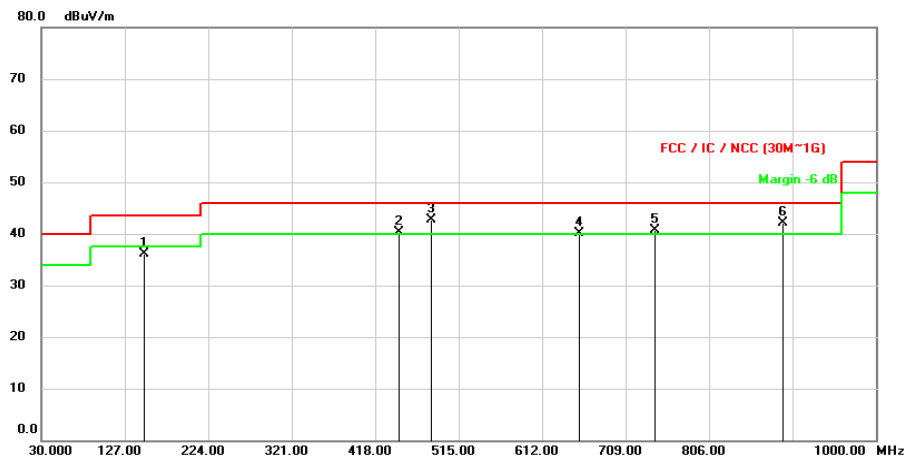
Doc No: 17-EM-F0876 / 2.0



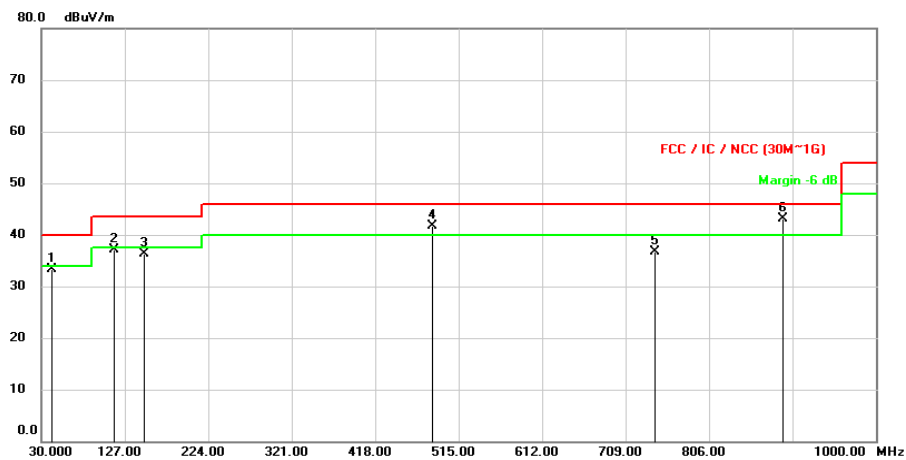
Model No. of Lens :MiiS Horus+ Scope DEA 200

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Doc No: 17-EM-F0876 / 2.0



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Issued date : Aug. 6, 2019
FCC ID : 2AFB3M-DSC300

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	148.5016	51.40	-15.33	36.07	43.50	-7.43	peak
-	445.5157	50.61	-10.25	40.36	46.00	-5.64	peak
-	482.9253	52.49	-9.69	42.80	46.00	-3.20	peak
-	654.4537	46.40	-6.21	40.19	46.00	-5.81	peak
-	742.5297	45.37	-4.68	40.69	46.00	-5.31	peak
-	891.0367	44.86	-2.75	42.11	46.00	-3.89	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	41.7370	48.64	-15.43	33.21	40.00	-6.79	peak
-	114.3900	55.27	-18.18	37.09	43.50	-6.41	peak
-	148.5016	51.71	-15.33	36.38	43.50	-7.12	peak
-	483.6690	51.45	-9.68	41.77	46.00	-4.23	peak
-	742.5297	41.39	-4.68	36.71	46.00	-9.29	peak
-	891.0690	45.93	-2.75	43.18	46.00	-2.82	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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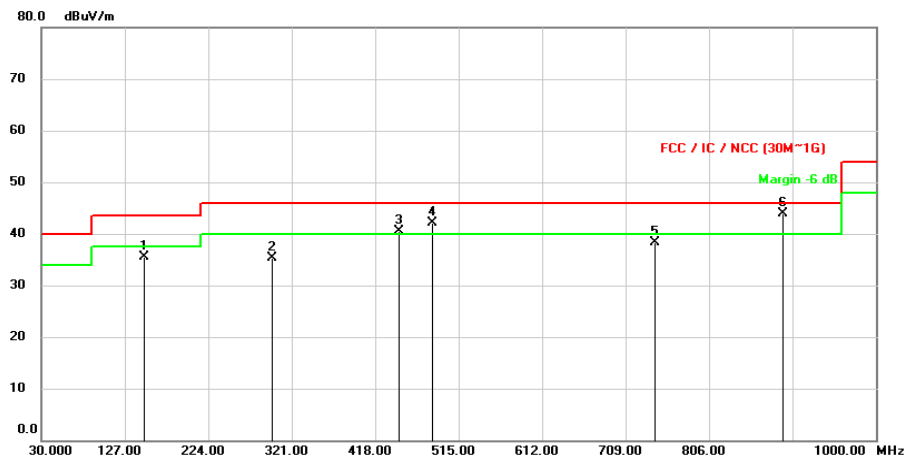
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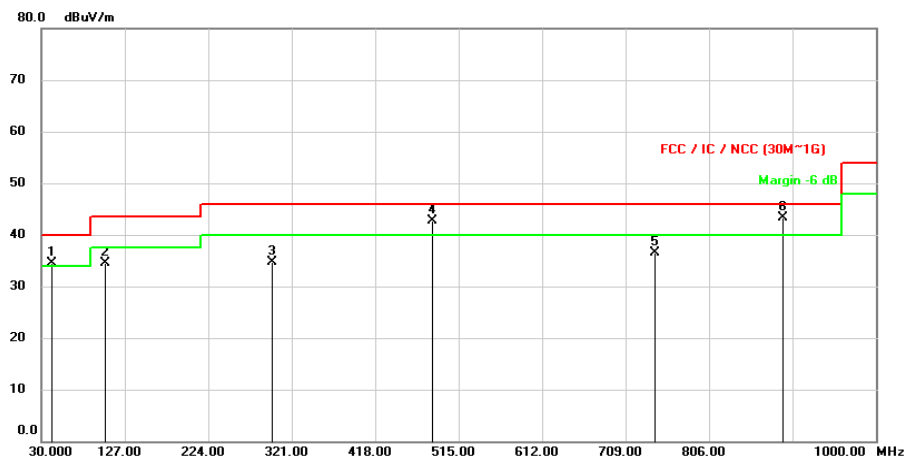
Model No. of Lens :MiiS Horus+ Scope DEC 200

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Doc No: 17-EM-F0876 / 2.0



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Issued date : Aug. 6, 2019
FCC ID : 2AFB3M-DSC300

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	148.5016	50.81	-15.33	35.48	43.50	-8.02	peak
-	297.0087	49.49	-14.14	35.35	46.00	-10.65	peak
-	445.5157	50.69	-10.25	40.44	46.00	-5.56	peak
-	483.4427	51.88	-9.68	42.20	46.00	-3.80	peak
-	742.5297	43.08	-4.68	38.40	46.00	-7.60	peak
-	891.0690	46.58	-2.75	43.83	46.00	-2.17	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	40.9287	50.06	-15.51	34.55	40.00	-5.45	peak
-	103.5260	53.89	-19.40	34.49	43.50	-9.01	peak
-	297.0087	48.92	-14.14	34.78	46.00	-11.22	peak
-	483.5397	52.29	-9.68	42.61	46.00	-3.39	peak
-	742.5297	41.21	-4.68	36.53	46.00	-9.47	peak
-	891.0690	45.96	-2.75	43.21	46.00	-2.79	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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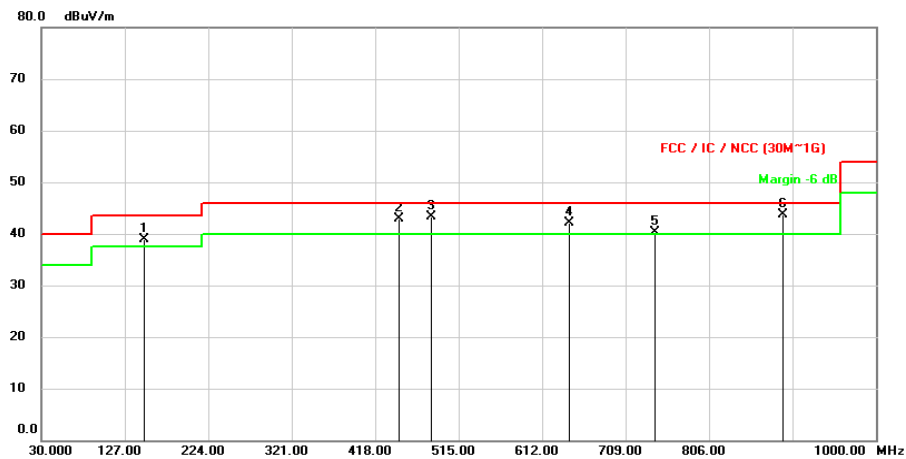
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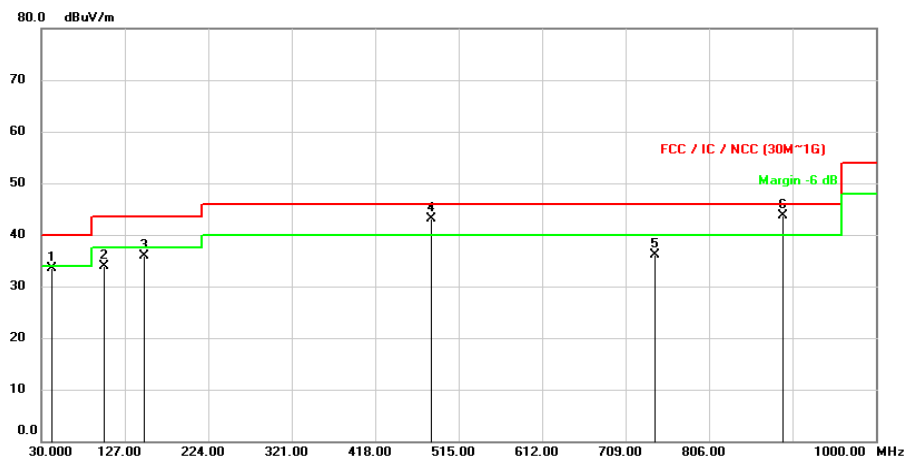
Model No. of Lens :MiiS Horus+ Scope DEC 200 with CR-100

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Doc No: 17-EM-F0876 / 2.0



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Issued date : Aug. 6, 2019
FCC ID : 2AFB3M-DSC300

Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	148.5016	54.27	-15.33	38.94	43.50	-4.56	peak
-	445.5157	53.23	-10.25	42.98	46.00	-3.02	peak
-	482.4403	53.02	-9.69	43.33	46.00	-2.67	peak
-	643.5250	48.53	-6.37	42.16	46.00	-3.84	peak
-	742.5297	45.00	-4.68	40.32	46.00	-5.68	peak
-	891.0367	46.43	-2.75	43.68	46.00	-2.32	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	41.4460	48.94	-15.46	33.48	40.00	-6.52	peak
-	103.6230	53.22	-19.38	33.84	43.50	-9.66	peak
-	148.5016	51.16	-15.33	35.83	43.50	-7.67	peak
-	482.4403	52.88	-9.69	43.19	46.00	-2.81	peak
-	742.5297	40.77	-4.68	36.09	46.00	-9.91	peak
-	891.0367	46.49	-2.75	43.74	46.00	-2.26	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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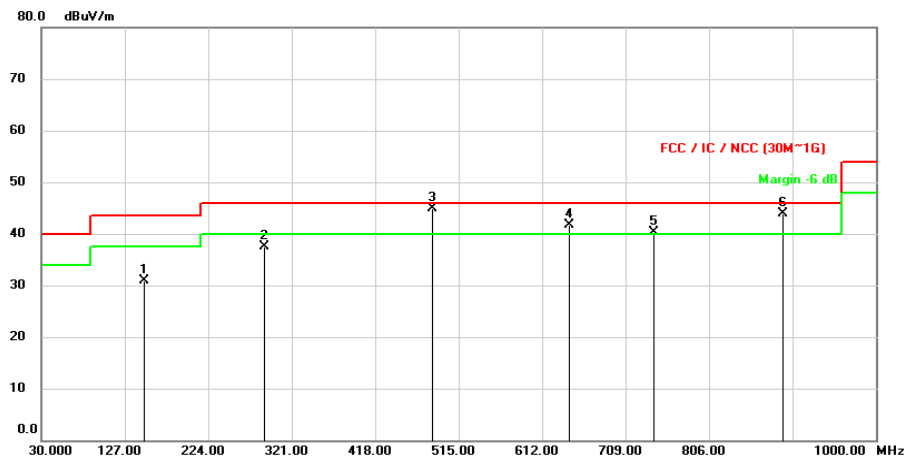
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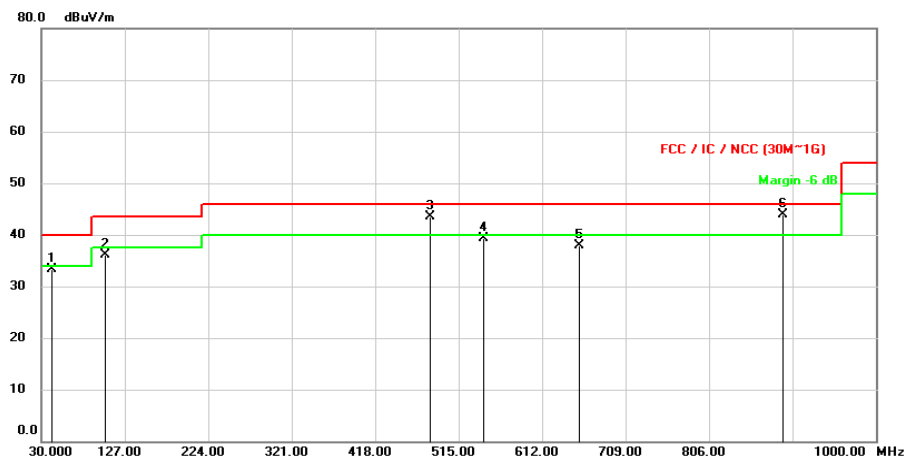
Model No. of Lens :MiiS Horus+ Scope DEC 200 with Slit lamp jig

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	30 MHz ~ 1 GHz

Horizontal



Vertical



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Antenna Polarity & Test Distance: Horizontal at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	148.5016	46.31	-15.33	30.98	43.50	-12.52	peak
-	289.5720	51.61	-14.19	37.42	46.00	-8.58	peak
-	483.0223	54.52	-9.69	44.83	46.00	-1.17	peak
-	643.5250	48.10	-6.37	41.73	46.00	-4.27	peak
-	742.5620	44.98	-4.68	40.30	46.00	-5.70	peak
-	891.0690	46.57	-2.75	43.82	46.00	-2.18	peak
Antenna Polarity & Test Distance: Vertical at 3 m							
Notation	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	
-	41.3490	48.78	-15.47	33.31	40.00	-6.69	peak
-	104.1080	55.35	-19.30	36.05	43.50	-7.45	peak
-	481.8583	53.24	-9.71	43.53	46.00	-2.47	peak
-	544.5203	47.67	-8.46	39.21	46.00	-6.79	peak
-	654.7446	44.01	-6.20	37.81	46.00	-8.19	peak
-	891.0367	46.58	-2.75	43.83	46.00	-2.17	peak

Remarks:

1. Result value (dBuV/m) = Reading value (dBuV/m) + Correction Factor (dB/m).
2. Margin(dB) = Result value (dBuV/m) - Limit value (dBuV/m).
3. Correction Factor (dB/m) = Antenna Factor (dBuV/m) + Cable Loss (dB) - Preamp Factor (dB).
4. The peak result complies with AVG limit, AVG result is deemed to comply with AVG limit.
5. The other emission levels were very low against the limit.

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9.6. AC Power Line Conducted Emission

Requirements

Frequency (MHz)	Conducted limit (dBμV)	
	Quasi-peak	Average
0.15 - 0.5	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note:

1. The lower limit shall apply at the transition frequencies.
2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Procedures

- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- c. The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

NOTE: The resolution bandwidth and video bandwidth of test receiver is 9kHz for quasi-peak detection (QP) and average detection (AV) at frequency 0.15MHz-30MHz.

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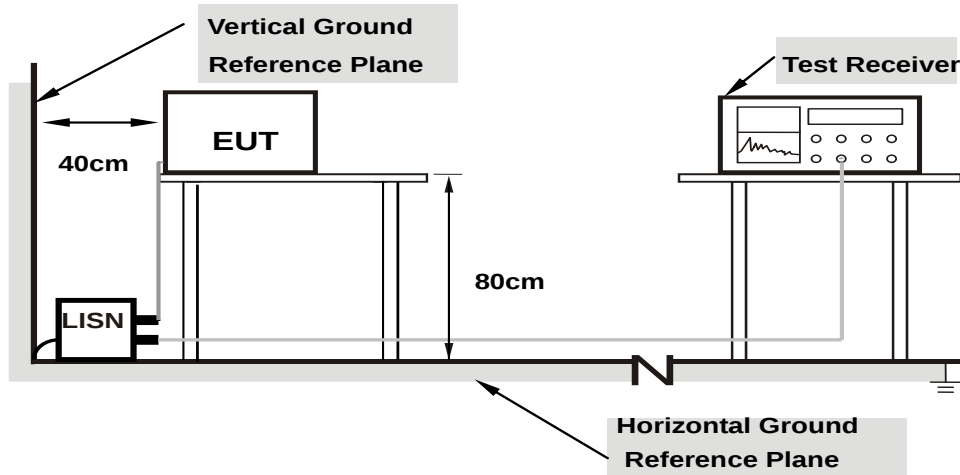
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Test Setup



Note: 1.Support units were connected to second LISN.

For the actual test configuration, please refer to the Setup Configurations.

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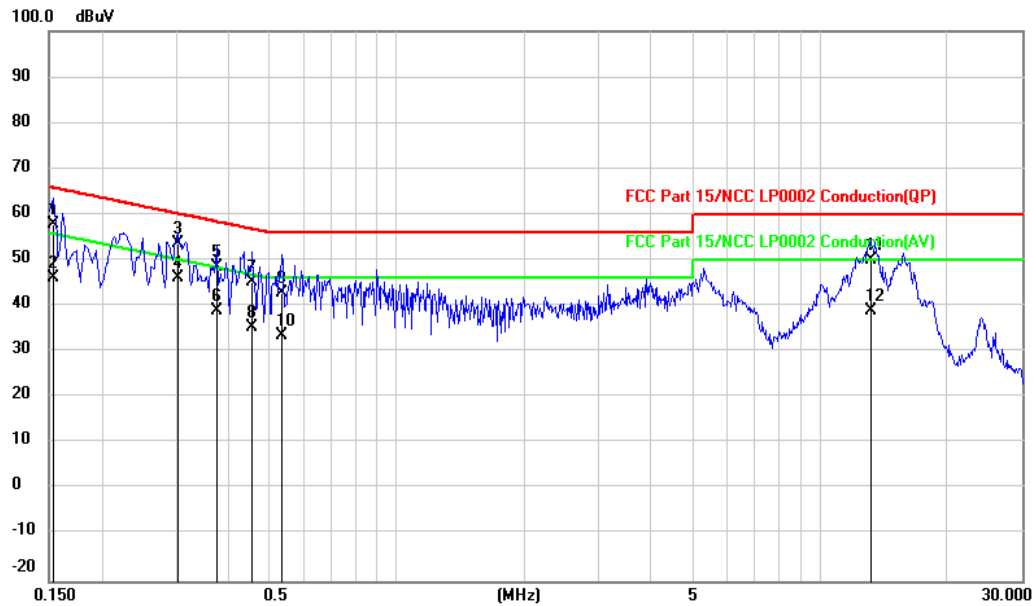


Test Data

Adapter Mode

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1539	38.16	19.69	57.85	65.79	-7.94	QP
2	0.1539	26.37	19.69	46.06	55.79	-9.73	AVG
3	0.3020	34.09	19.67	53.76	60.19	-6.43	QP
4	0.3020	26.41	19.67	46.08	50.19	-4.11	AVG
5	0.3740	28.75	19.67	48.42	58.41	-9.99	QP
6	0.3740	19.42	19.67	39.09	48.41	-9.32	AVG
7	0.4540	25.52	19.67	45.19	56.80	-11.61	QP
8	0.4540	15.58	19.67	35.25	46.80	-11.55	AVG
9	0.5340	23.22	19.67	42.89	56.00	-13.11	QP
10	0.5340	13.96	19.67	33.63	46.00	-12.37	AVG
11	13.1460	30.31	19.83	50.14	60.00	-9.86	QP
12	13.1460	19.12	19.83	38.95	50.00	-11.05	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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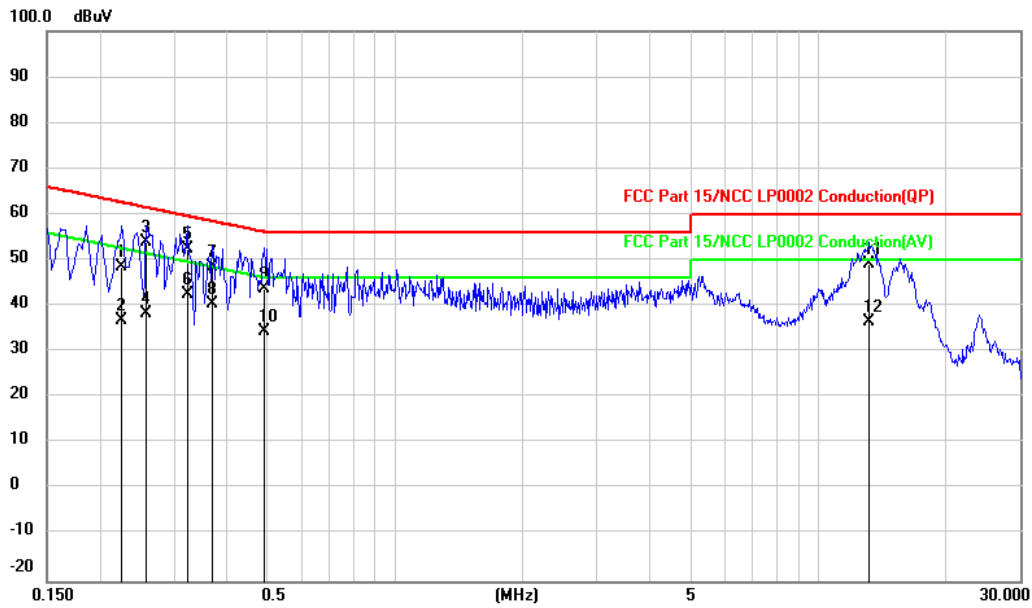
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Phase of Power : Neutral (N)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.2260	28.82	19.68	48.50	62.60	-14.10	QP
2	0.2260	17.26	19.68	36.94	52.60	-15.66	AVG
3	0.2580	34.24	19.68	53.92	61.50	-7.58	QP
4	0.2580	18.53	19.68	38.21	51.50	-13.29	AVG
5	0.3220	32.70	19.67	52.37	59.66	-7.29	QP
6	0.3220	22.95	19.67	42.62	49.66	-7.04	AVG
7	0.3700	28.81	19.67	48.48	58.50	-10.02	QP
8	0.3700	20.67	19.67	40.34	48.50	-8.16	AVG
9	0.4909	24.01	19.67	43.68	56.15	-12.47	QP
10	0.4909	14.82	19.67	34.49	46.15	-11.66	AVG
11	13.2602	29.30	19.88	49.18	60.00	-10.82	QP
12	13.2602	16.55	19.88	36.43	50.00	-13.57	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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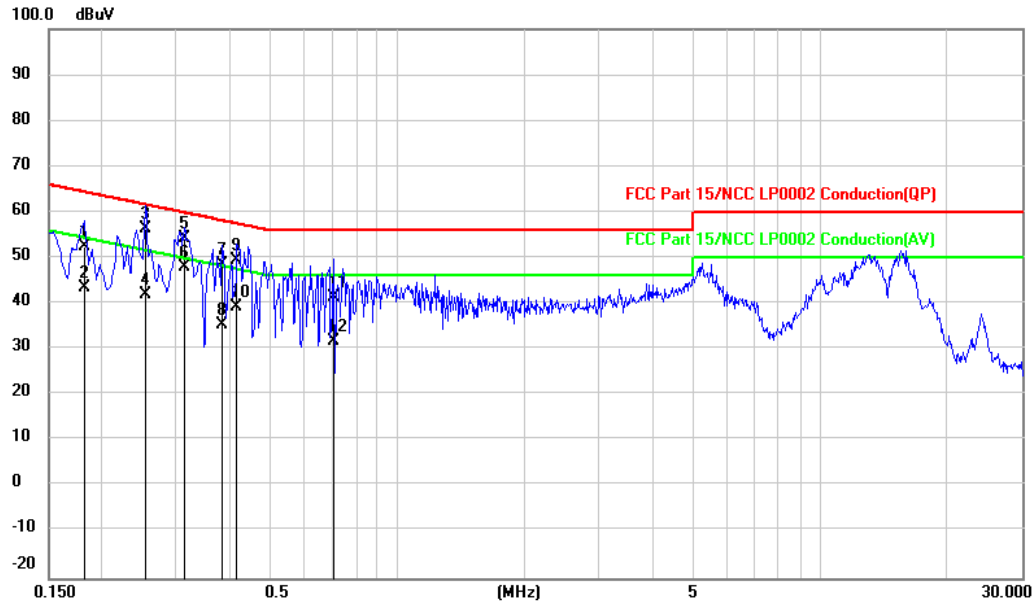
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Charging Station Mode

EUT Test Condition		Measurement Detail	
Channel	Channel 0	Frequency Range	150 kHz ~ 30 MHz

Phase of Power : Line (L)



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No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.1819	32.85	19.68	52.53	64.40	-11.87	QP
2	0.1819	23.91	19.68	43.59	54.40	-10.81	AVG
3	0.2540	36.78	19.68	56.46	61.63	-5.17	QP
4	0.2540	22.36	19.68	42.04	51.63	-9.59	AVG
5	0.3140	34.73	19.67	54.40	59.86	-5.46	QP
6	0.3140	28.17	19.67	47.84	49.86	-2.02	AVG
7	0.3860	29.01	19.67	48.68	58.15	-9.47	QP
8	0.3860	15.80	19.67	35.47	48.15	-12.68	AVG
9	0.4180	29.75	19.67	49.42	57.49	-8.07	QP
10	0.4180	19.50	19.67	39.17	47.49	-8.32	AVG
11	0.7060	21.77	19.68	41.45	56.00	-14.55	QP
12	0.7060	12.04	19.68	31.72	46.00	-14.28	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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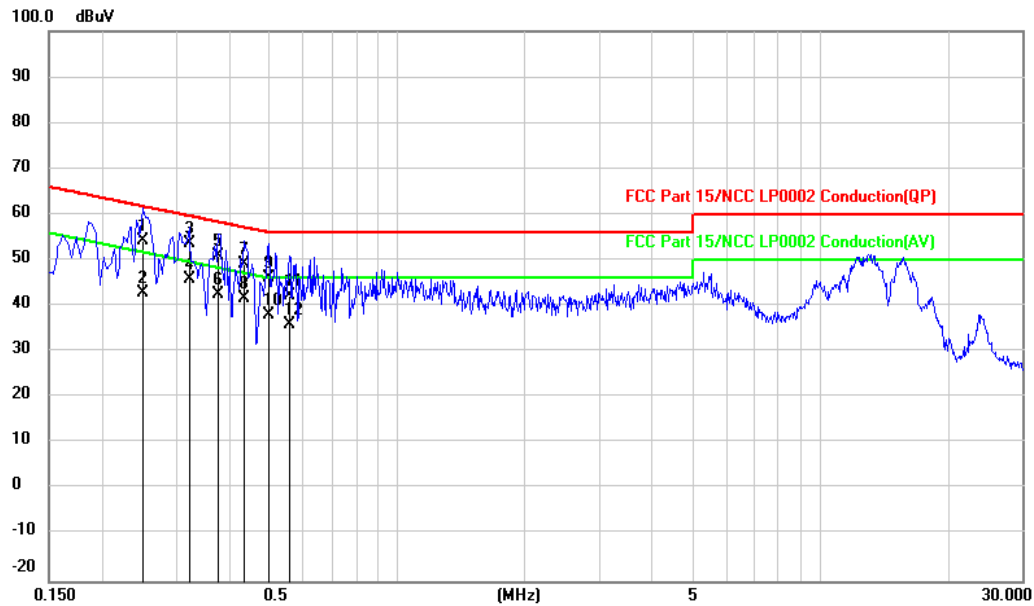
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Test report No. : 4788934739A-US-R1-V0
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FCC ID : 2AFB3M-DSC300

Phase of Power : Neutral (N)



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FCC ID : 2AFB3M-DSC300

No.	Frequency	Reading	Correct	Result	Limit	Margin	Remark
	(MHz)	(dBuV)	dB	(dBuV)	(dBuV)	(dB)	
1	0.2500	34.63	19.68	54.31	61.76	-7.45	QP
2	0.2500	23.14	19.68	42.82	51.76	-8.94	AVG
3	0.3220	34.13	19.67	53.80	59.66	-5.86	QP
4	0.3220	26.15	19.67	45.82	49.66	-3.84	AVG
5	0.3780	31.27	19.67	50.94	58.32	-7.38	QP
6	0.3780	22.98	19.67	42.65	48.32	-5.67	AVG
7	0.4336	29.52	19.67	49.19	57.18	-7.99	QP
8	0.4336	21.86	19.67	41.53	47.18	-5.65	AVG
9	0.4980	26.51	19.67	46.18	56.03	-9.85	QP
10	0.4980	18.26	19.67	37.93	46.03	-8.10	AVG
11	0.5580	22.63	19.67	42.30	56.00	-13.70	QP
12	0.5580	16.23	19.67	35.90	46.00	-10.10	AVG

Remarks:

1. Result value (dBuV) = Reading value (dBuV) + Correction Factor (dB)
2. Margin(dB) = Result value (dBuV) - Limit value (dBuV)
3. Correction Factor(dB) = Insertion loss(dB) + Cable loss(dB)
4. The other emission levels were very low against the limit.

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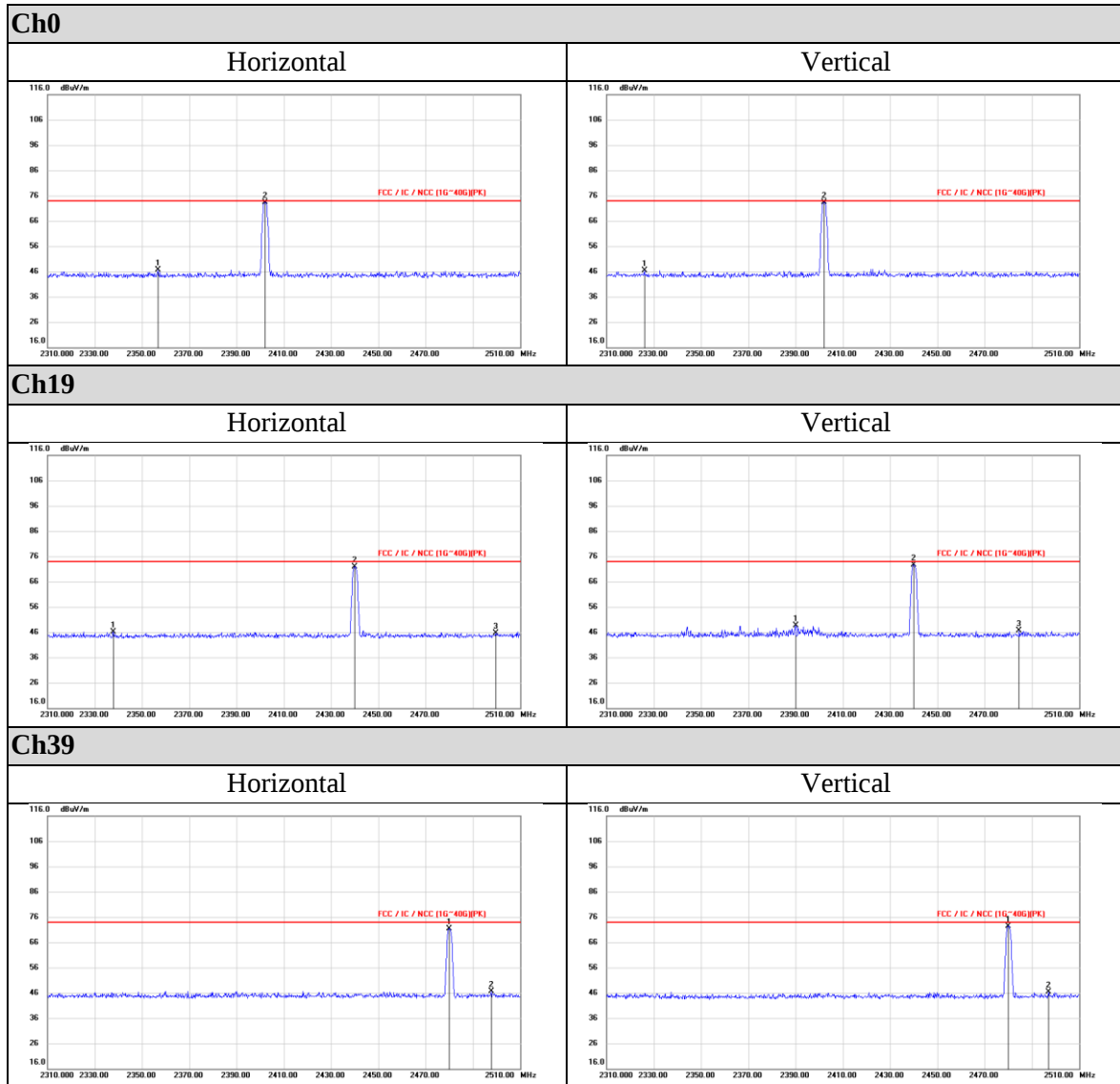
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Appendix I Radiated Band Edge Measurement

Model No. of Lens :MiiS Horus⁺ Scope DGC 200
Peak



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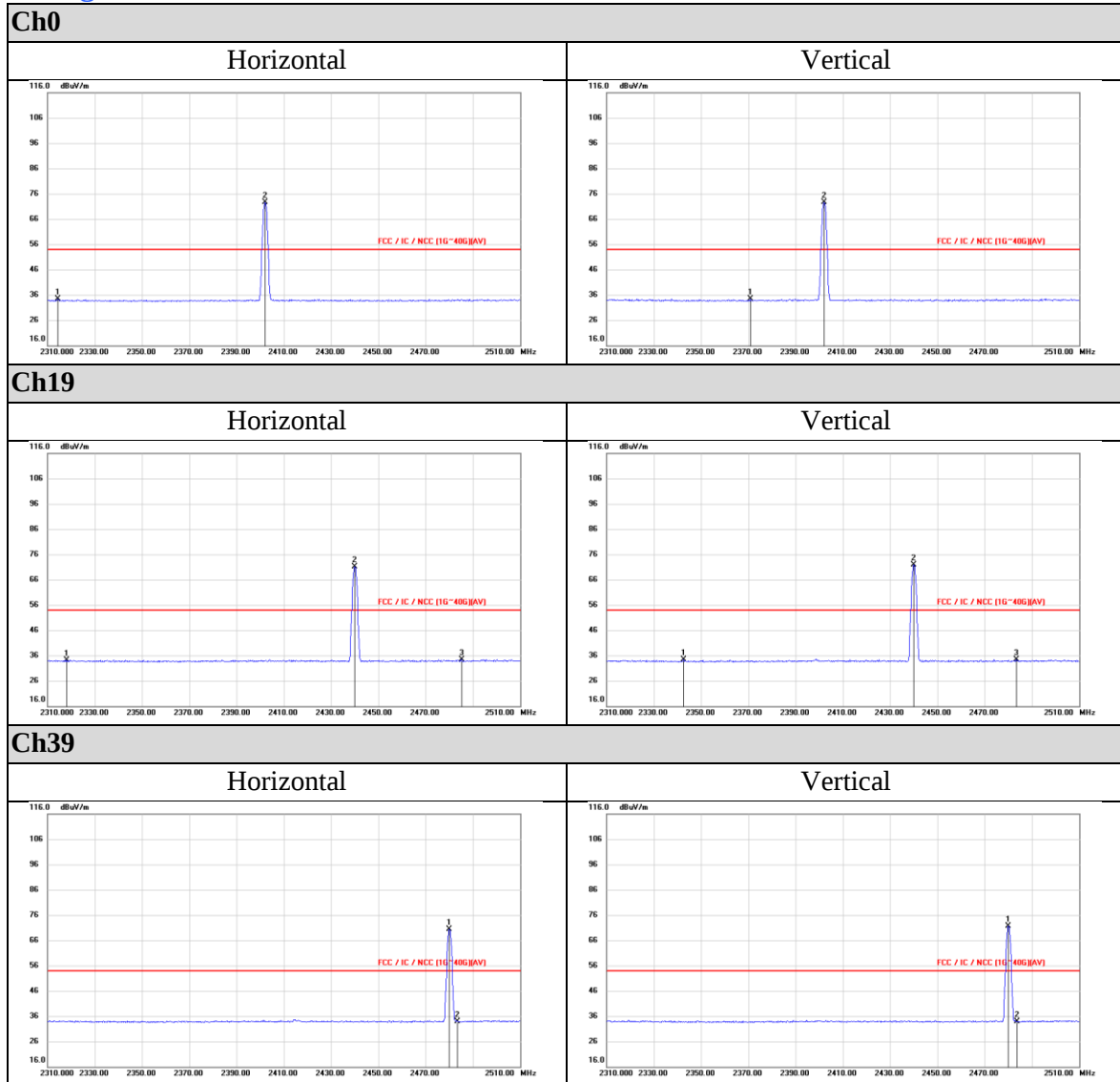
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Average



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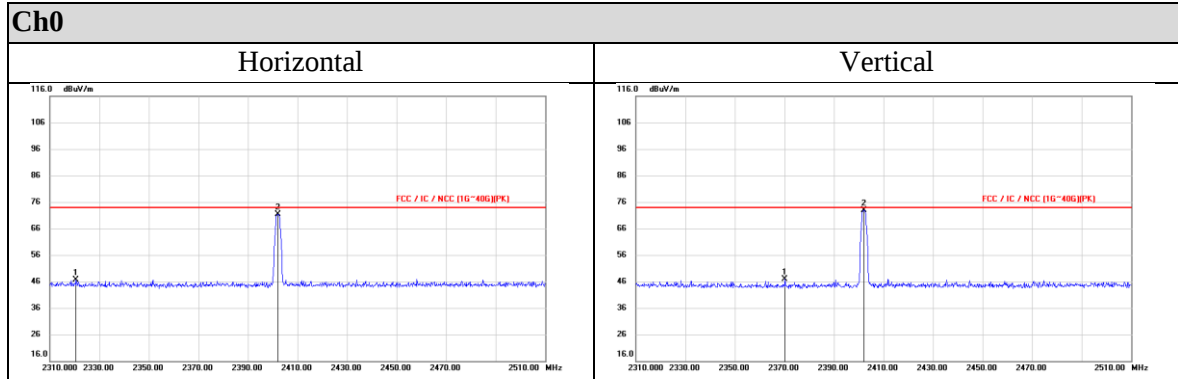
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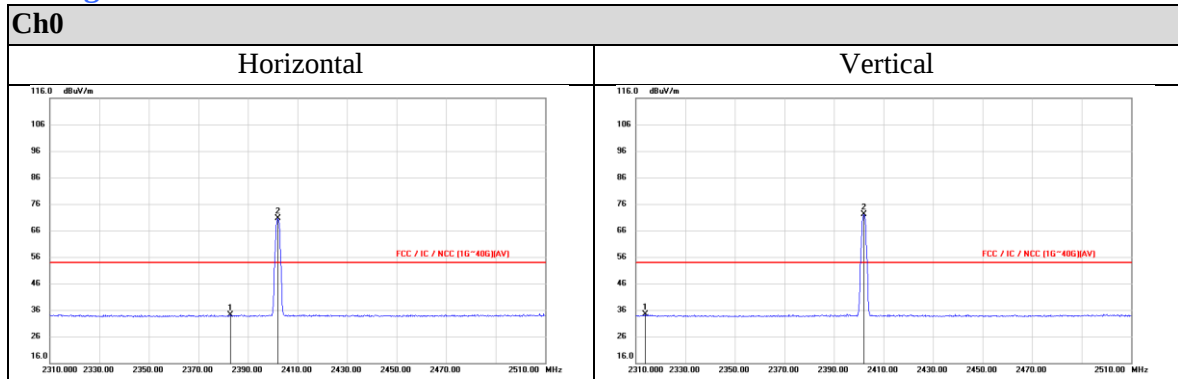
Test report No. : 4788934739A-US-R1-V0
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Model No. of Lens : MiiS Horus Scope DAR 100

Peak



Average



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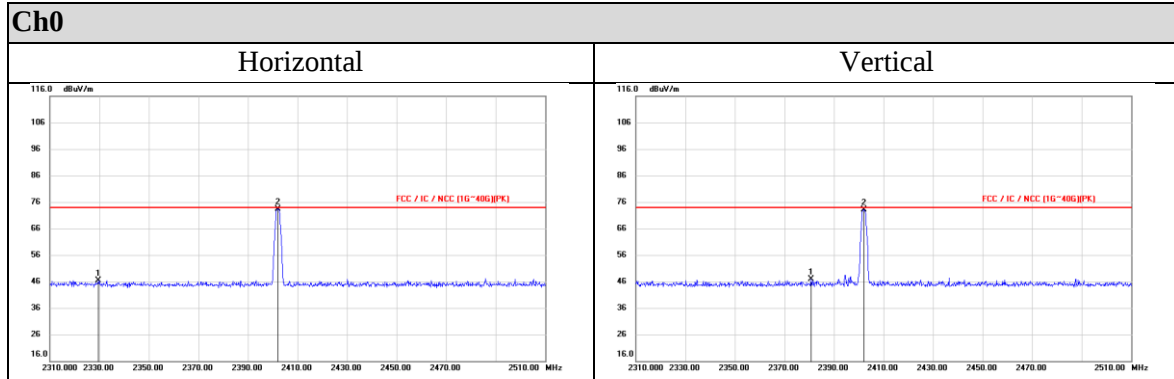
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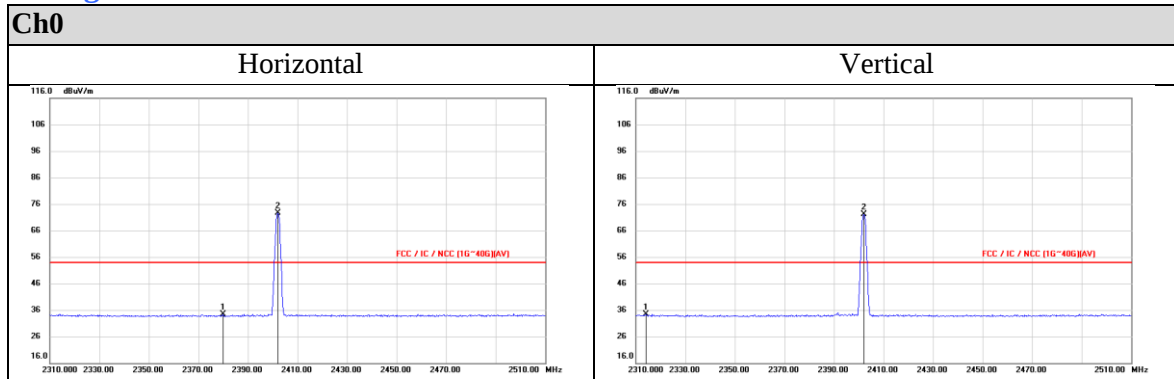
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Model No. of Lens :MiiS Horus⁺ Scope DEA 200

Peak



Average



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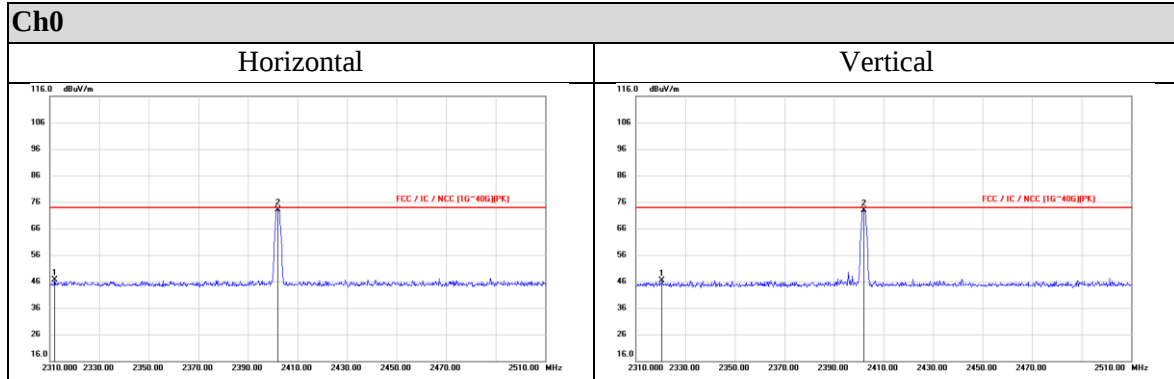
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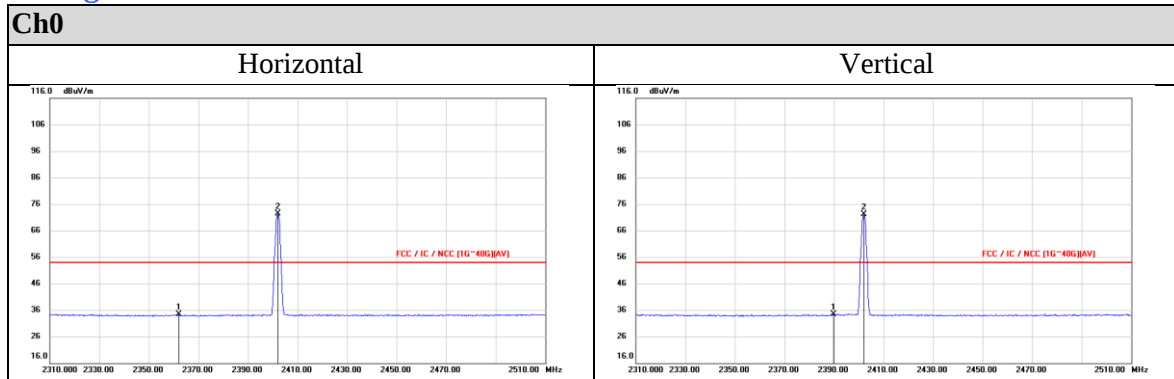


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Model No. of Lens : MiiS Horus⁺ Scope DEC 200
Peak



Average



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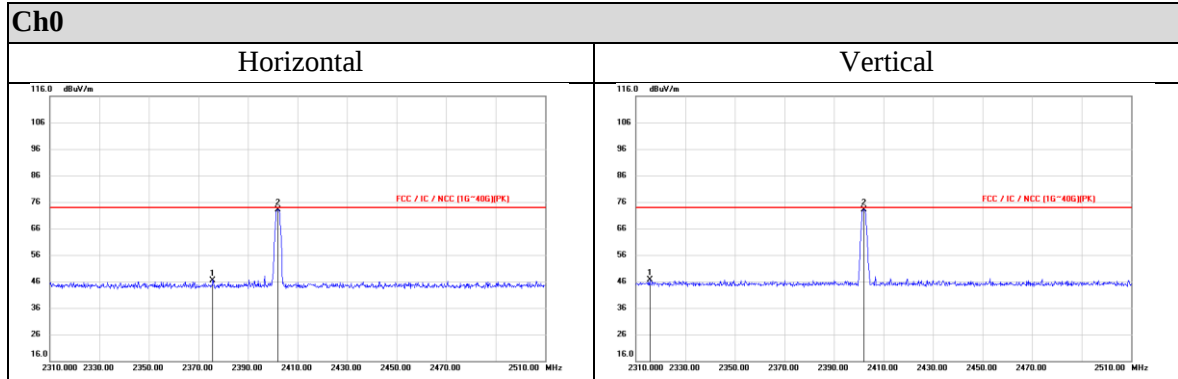
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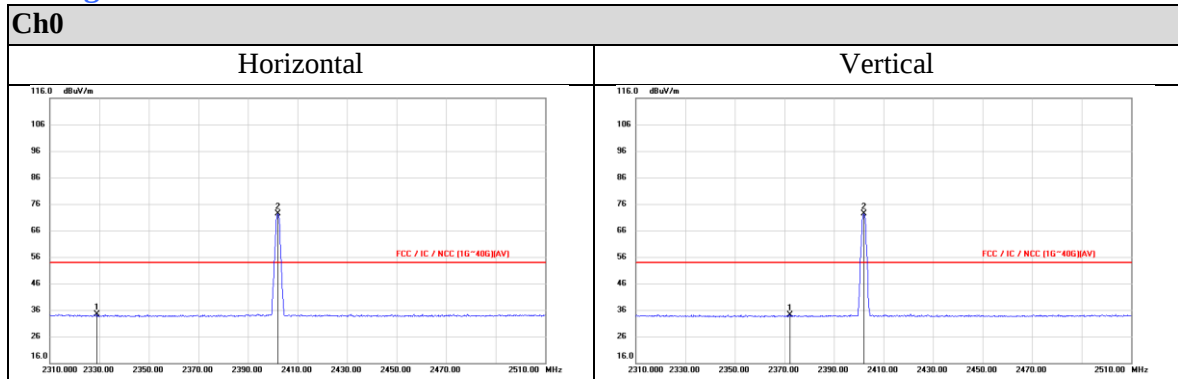
Test report No. : 4788934739A-US-R1-V0
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Issued date : Aug. 6, 2019
FCC ID : 2AFB3M-DSC300

Model No. of Lens :MiiS Horus⁺ Scope DEC 200 with CR-100

Peak



Average



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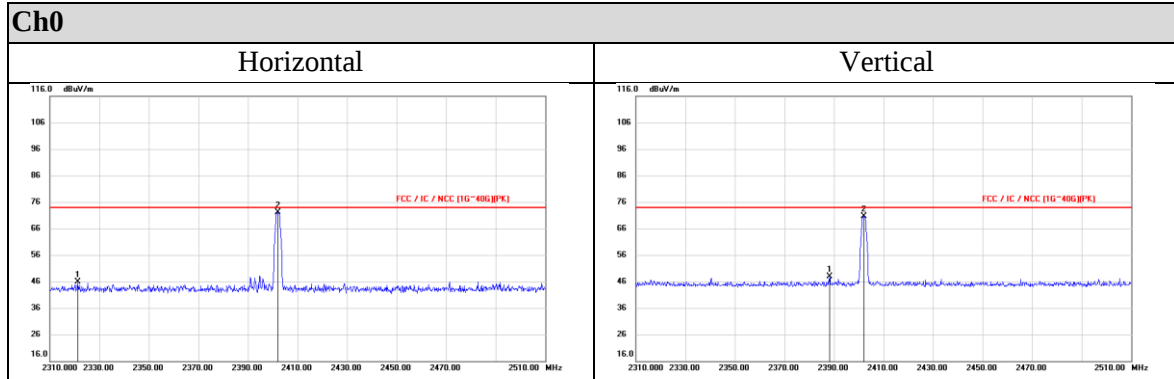
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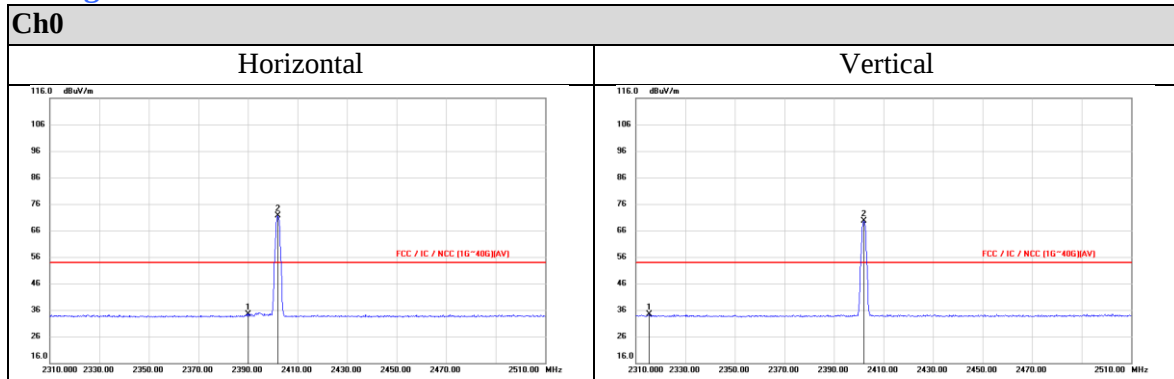


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Model No. of Lens :MiiS Horus⁺ Scope DEC 200 with Slit lamp jig
Peak



Average



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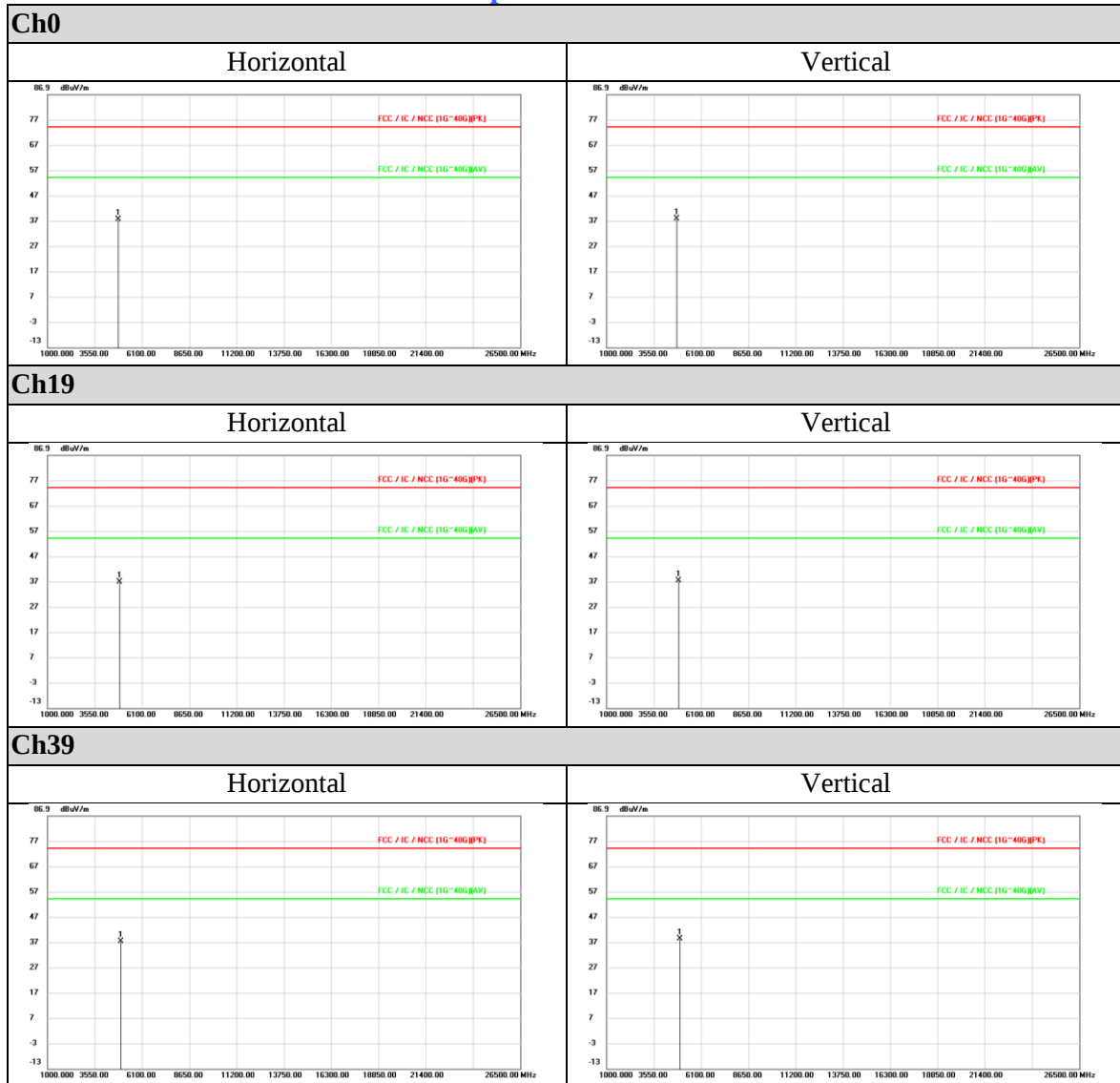
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FCC ID : 2AFB3M-DSC300

Appendix II Radiated Spurious Emission Measurement

Model No. of Lens :MiiS Horus⁺ Scope DGC 200



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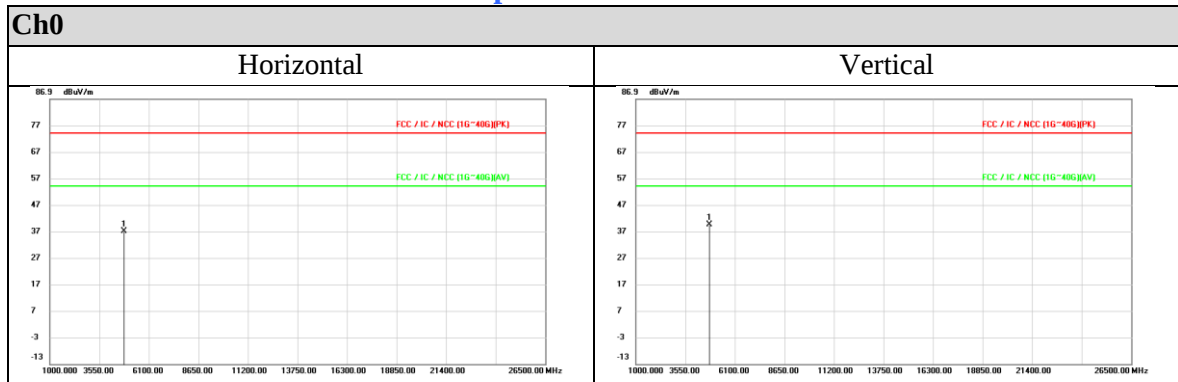
Facsimile (FAX) :+886-3-583-7948

Doc No: 17-EM-F0876 / 2.0

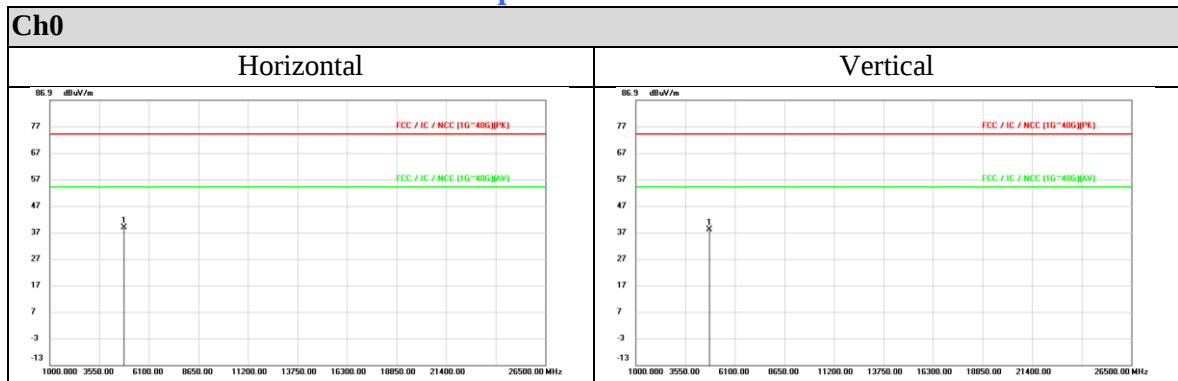


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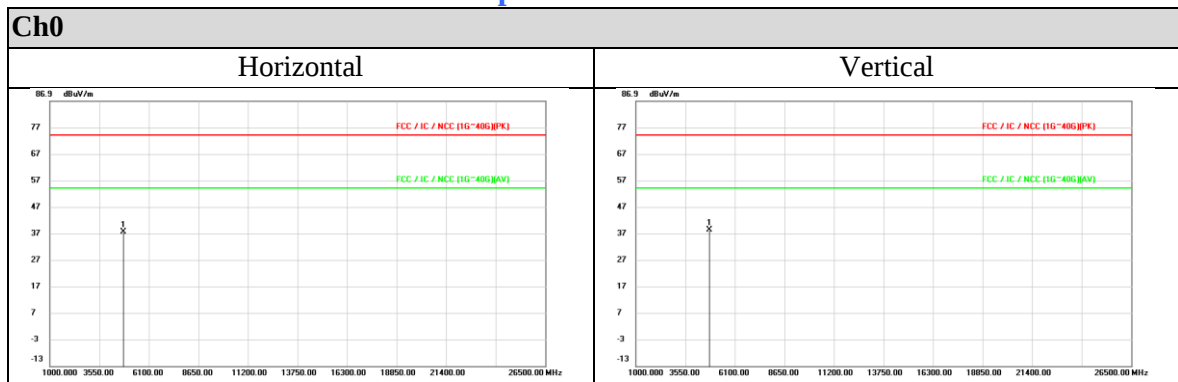
Model No. of Lens : MiiS Horus Scope DAR 100



Model No. of Lens :MiiS Horus+ Scope DEA 200



Model No. of Lens :MiiS Horus+ Scope DEC 200



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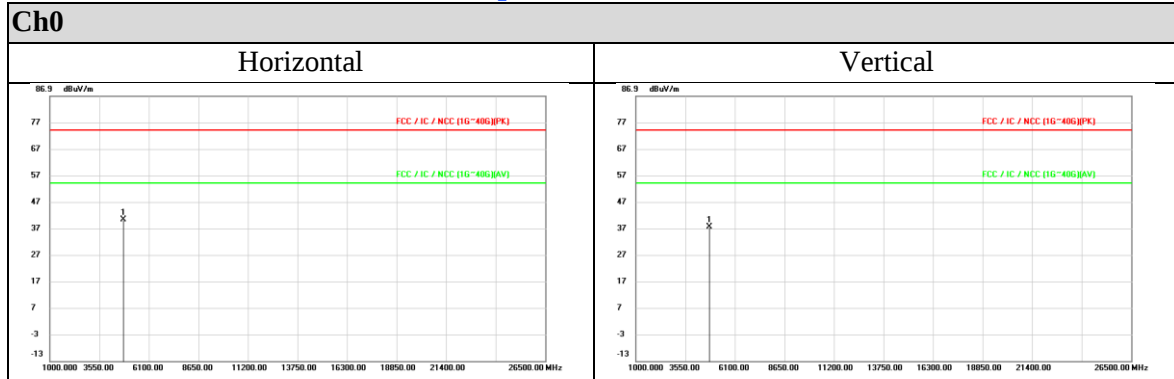
Facsimile (FAX) :+886-3-583-7948

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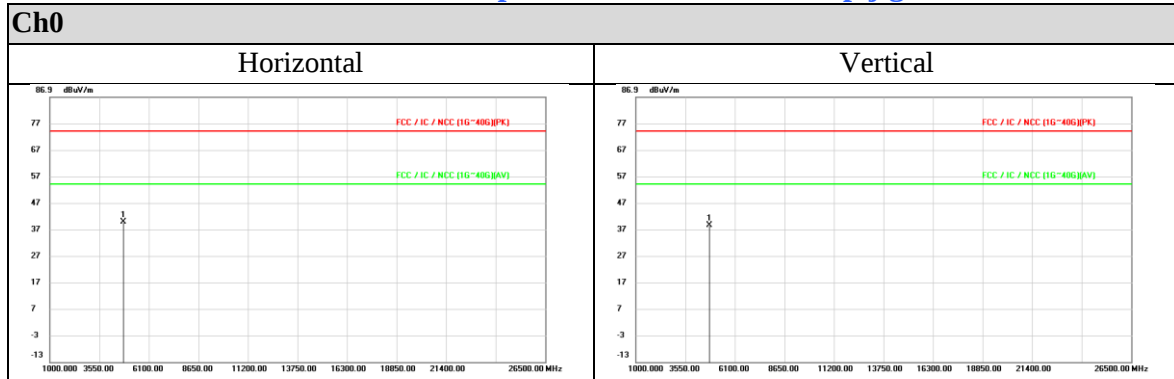


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Model No. of Lens :MiiS Horus⁺ Scope DEC 200 with CR-100



Model No. of Lens :MiiS Horus⁺ Scope DEC 200 with Slit lamp jig



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