

FCC RADIO TEST REPORT

FCC ID: 2BW24-YSD-F200

Product : Projector

Trade Mark : N/A

Model Name : F200

Family Model : E200

Report No. : N26052608613E

Prepared for

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Prepared by

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TEST RESULT CERTIFICATION

Applicant's name: Ying Shidai Zhi Neng Technology (Shenzhen) Co., Ltd.

Address: No. 301, Block 8, Huafeng Science and Technology Park, Fengtan Avenue, TangweiCommunity, Fuhai Street, Bao'an District, Shenzhen City, Guangdong, China

Manufacturer's Name.....: Ying Shidai Zhi Neng Technology (Shenzhen) Co., Ltd.

Address: No. 301, Block 8, Huafeng Science and Technology Park, Fengtan Avenue, TangweiCommunity, Fuhai Street, Bao'an District, Shenzhen City, Guangdong, China

Product description

Product name.....: Projector

Model and/or type reference : F200

Family Model.....: E200

Sample number : S2605290105-1#

Standards: FCC Part15.407

Test procedure ANSI C63.10-2020+Cor.1-2023+C63.10a-2024 + Errata to C63.10a-2024 and KDB 789033 D02 General UNII Test Procedures New Rules v02r01

This device described above has been tested by NTEK, and the test results show that the equipment under test (EUT) is in compliance with the FCC requirements/ the Industry Canada requirements.. And it is applicable only to the tested sample identified in the report.

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Date of Test

Date (s) of performance of tests May. 26, 2026 ~ Jul. 15, 2026

Date of Issue Jul. 15, 2026

Test Result..... **Pass**

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Approved By : 
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(Manager)

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Revision History

Report No.	Version	Description	Issued Date
N26052608613E	Rev.01	Initial issue of report	Jul. 15, 2026

1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards:

FCC Part15 (15.407) , Subpart E			
Standard Section	Test Item	Judgment	Remark
15.207	AC Power Line Conducted Emissions	PASS	
15.209(a), 15.407 (b)(3) 15.407(b)(8)(9)	Spurious Radiated Emissions	PASS	
15.407 (a)(3)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)(3)	Maximum Conducted Output Power	PASS	
15.407 (b)(3)	Band Edge	PASS	
15.407 (a)(3)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	PASS	
15.407(g)	Antenna Requirement	PASS	
15.407(h)	Automatically discontinue transmission	PASS	(Note 2)

NOTE:

(1) "N/A" denotes test is not applicable in this Test Report

(2) The product is a client device, and the data transmission is limited by the AP.

When the information to be sent is missing or the operation fails, the device will automatically stop sending and directly connect to the AP correctly again.

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10 and CISPR Publication 22.

LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.

IC-Registration : The Certificate Registration Number is 9270A.
CAB identifier: CN0074

FCC- Accredited : Test Firm Registration Number: 463705.
Designation Number: CN1184

A2LA-Lab. : The Certificate Registration Number is 4298.01
This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 General requirements for the competence of testing and calibration laboratories.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

Name of Firm : Shenzhen NTEK Testing Technology Co., Ltd.

Site Location : No. 24 Xinfu East Road, Xiangshan Community, Xinqiao Street, Baoan District, Shenzhen, Guangdong, People's Republic of China.

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	Conducted Emission Test	$\pm 2.80\text{dB}$
2	RF power, conducted	$\pm 0.16\text{dB}$
3	Spurious emissions, conducted	$\pm 0.21\text{dB}$
4	All emissions, radiated(30MHz~1GHz)	$\pm 2.64\text{dB}$
5	All emissions, radiated(1GHz~6GHz)	$\pm 2.40\text{dB}$
6	All emissions, radiated(> 6GHz)	$\pm 2.52\text{dB}$
7	Temperature	$\pm 0.5^\circ\text{C}$
8	Humidity	$\pm 2\%$
9	All emissions, radiated(9KHz~30MHz)	$\pm 6\text{dB}$
10	Occupied bandwidth	$\pm 4.7\text{dB}$

2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

Equipment	Projector	
Trade Mark	N/A	
Model Name	F200	
Family Model	E200	
Model Difference	All models have the same circuit and RF module, except for model names and appearances.	
FCC ID	2BW24-YSD-F200	
Product Description	IEEE 802.11 WLAN Mode Supported	☒ 802.11a/n/ac/ax (20MHz channel bandwidth) ☒ 802.11n/ac/ax (40MHz channel bandwidth)
	Data Rate	802.11a: 6/9/12/18/24/36/48/54Mbps; 802.11n (20MHz): MCS0-15, up to 144Mbps 802.11n (40MHz): MCS0-15, up to 300Mbps 802.11ac (20MHz): MCS0-8, up to 173.4Mbps 802.11ac (40MHz): MCS0-9, up to 400Mbps 802.11ax (20MHz): MCS0-11, up to 286.8Mbps 802.11ax (40MHz): MCS0-11, up to 573.5Mbps
	Modulation	802.11a: OFDM (BPSK / QPSK / 16QAM/64QAM) 802.11n: OFDM (QPSK/BPSK/16QAM/64QAM) 802.11ac: OFDM (QPSK/BPSK/16QAM/64QAM/256QAM) 802.11ax: OFDMA (QPSK/BPSK/16QAM/64QAM/256QAM/1024QAM)
	Operating Frequency Range	☒ U-NII-2C: 5470MHz~5725MHz
	Function:	☐ Outdoor AP ☐ Indoor AP ☐ Fixed P2P ☒ Client
	DFS type:	☐ master devices ☐ Slave devices with radar detection ☒ Slave devices without radar detection
	Support TPC	☐ YES ☒ NO
	Antenna Type	Ceramic Antenna
	Antenna Gain	5G WIFI: 4.05dBi
	Based on the application, features, or specification exhibited in User's Manual, More details of EUT technical specification, please refer to the User's Manual.	
Adapter	N/A	
Battery	N/A	
Power supply	AC 120V	
Connecting I/O Port(s)	Please refer to the User's Manual	
HW Version	Q2707_V10_20251115	
FW Version	N/A	
SW Version	android11	
RF Power Setting	802.11a:32;802.11 ac(20/40):32; 802.11 ax(20/40):30	
Test Software	Dialing Commands	

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
2. Frequency and Channel list:

Band	20MHz		40MHz	
	Channel	Frequency	Channel	Frequency
U-NII-2C	100	5500 MHz	102	5510 MHz
	104	5520 MHz	110	5550 MHz
	108	5540 MHz	118	5590 MHz
	112	5560 MHz	126	5630 MHz
	116	5580 MHz	134	5670 MHz
	120	5600 MHz		
	124	5620 MHz		
	128	5640 MHz		
	132	5660 MHz		
	140	5700 MHz		

2.2 DESCRIPTION OF TEST MODES

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac/ax 20 CH100/CH120/CH140
Mode 3	802.11n/ac/ax 40 CH102/CH118/CH134

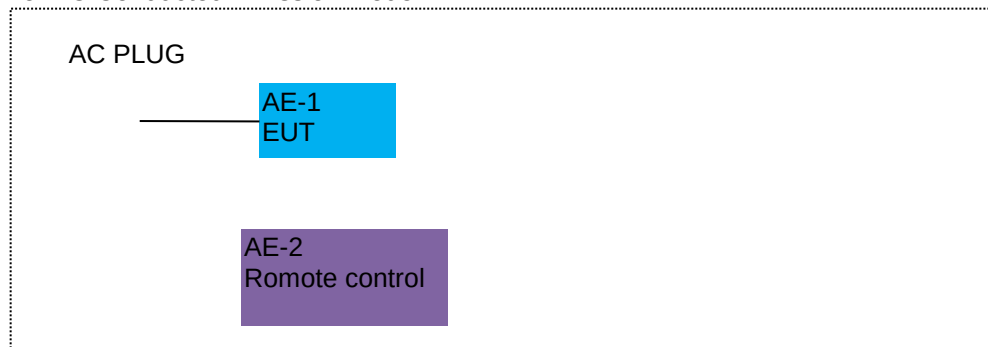
For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a/n/ac/ax 20 CH100/CH120/CH140
Mode 3	802.11n/ac/ax 40 CH102/CH118/CH134

Note:

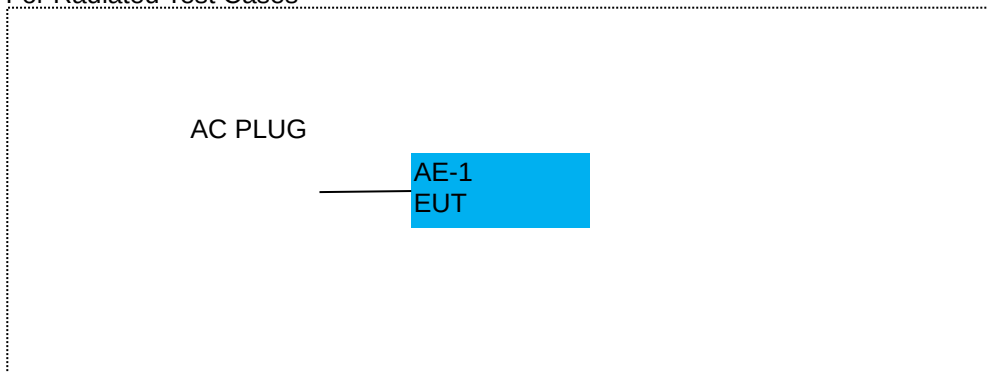
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (3) 802.11ax supports FULL RU Only.

2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

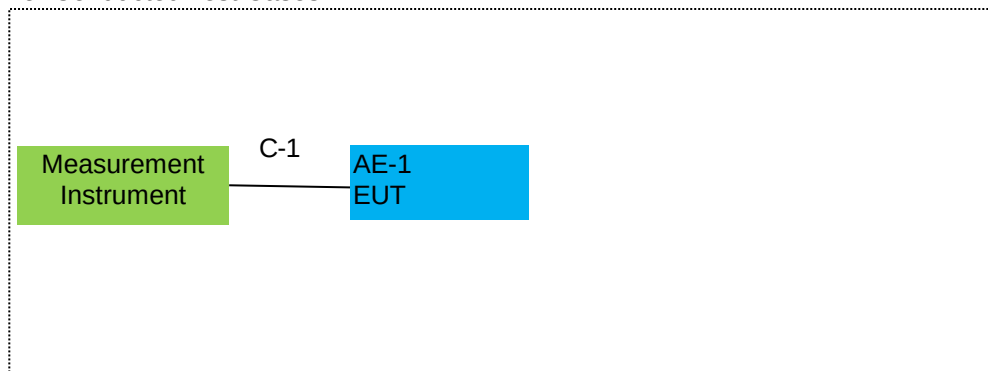
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 1.The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

2.4 DESCRIPTION OF SUPPORT UNITS(CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Model/Type No.	Series No.	Note
AE-1	Projector	F200	N/A	EUT
AE-2	Remote control	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	RF Cable	YES	NO	0.1m

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation& Conducted Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Spectrum Analyzer	Agilent	E4440A	MY41000130	2026.04.15	2027.04.14	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2026.04.08	2027.04.07	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2026.04.08	2027.04.07	1 year
4	Test Receiver	R&S	ESPI7	101318	2026.04.08	2027.04.07	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2026.04.08	2027.04.07	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2024.04.26	2027.04.25	3 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2024.05.12	2027.05.11	3 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2024.05.12	2027.05.11	3 year
9	Amplifier	EMC	EMC051835SE	980246	2026.04.08	2027.04.07	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN084	2026.04.08	2027.04.07	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2024.05.06	2027.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2024.05.06	2027.05.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2024.05.06	2027.05.05	3 year
15	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
16	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A

Note:

We will use the temporary antenna connector (soldered on the PCB board) When conducted test
And this temporary antenna connector is listed within the instrument list

AC Conduction Test equipment

Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until	Calibration period
1	Test Receiver	R&S	ESCI	101160	2026.04.08	2027.04.07	1 year
2	LISN	R&S	ENV216	101313	2026.04.08	2027.04.07	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2026.04.08	2027.04.07	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2024.04.26	2027.04.25	3 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2024.05.06	2027.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2024.05.06	2027.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2024.05.06	2027.05.05	3 year

Note: Each piece of equipment is scheduled for calibration once a year except the Test Cable& Aux Equipment which is scheduled for calibration every 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFtest	MTS 8310 2.4GHz/5GHz	2.0	RF Conducted Test
2	Farad	EZ-EMC_RE	AIT-03A	RadiatedTest
3	Farad	EZ-EMC_CE	AIT-03A	AC Conducted Test

3. TEST REQUIREMENTS

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 APPLICABLE STANDARD

According to FCC Part 15.207(a)

3.1.2 CONFORMANCE LIMIT

Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

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

3.1.3 TEST CONFIGURATION

3.1.4 TEST PROCEDURE

According to the requirements in Section 13.1.4.1 of ANSI C63.10 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
4. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40cm long.
5. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
6. LISN at least 80 cm from nearest part of EUT chassis.
7. The frequency range from 150KHz to 30MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth(IF bandwidth=9KHz) with Maximum Hold Mode
9. For the actual test configuration, please refer to the related Item –EUT Test Photos.

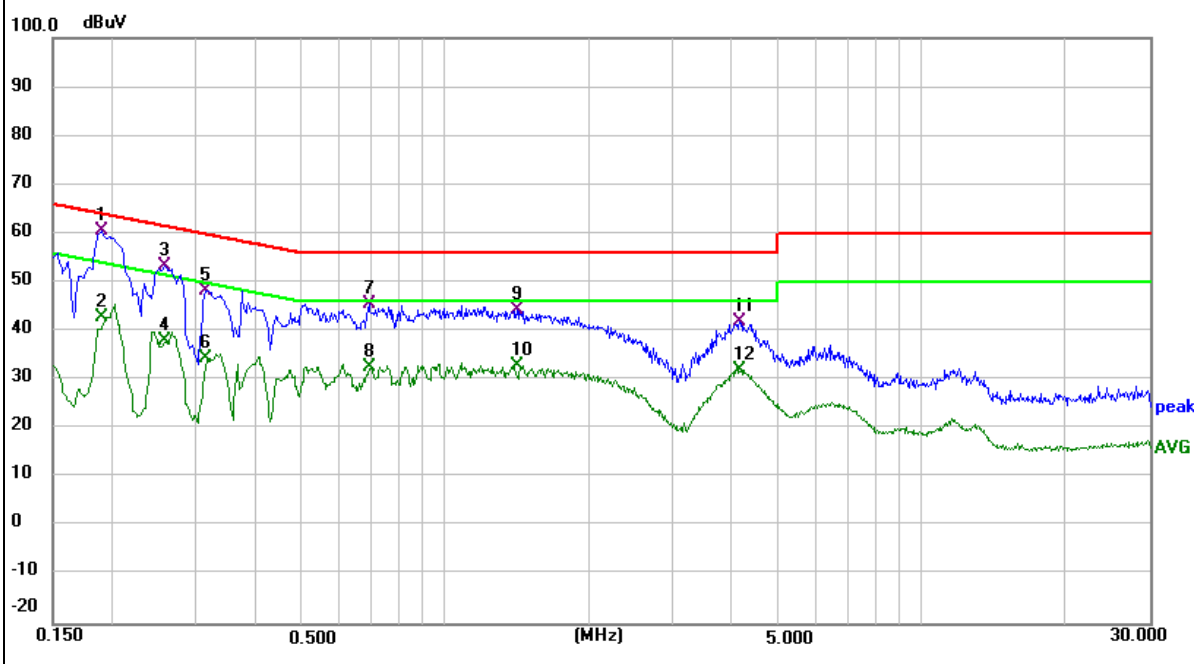
3.1.5 TEST RESULTS

EUT :	Projector	Model Name :	F200
Temperature :	23.9℃	Relative Humidity :	59.8%
Pressure :	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1 (5.6G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1900	41.19	19.48	60.67	64.04	-3.37	QP
0.1900	23.23	19.48	42.71	54.04	-11.33	AVG
0.2580	34.01	19.49	53.50	61.50	-8.00	QP
0.2580	18.58	19.49	38.07	51.50	-13.43	AVG
0.3140	28.71	19.49	48.20	59.86	-11.66	QP
0.3140	15.11	19.49	34.60	49.86	-15.26	AVG
0.6900	26.01	19.51	45.52	56.00	-10.48	QP
0.6900	13.19	19.51	32.70	46.00	-13.30	AVG
1.4180	24.79	19.52	44.31	56.00	-11.69	QP
1.4180	13.39	19.52	32.91	46.00	-13.09	AVG
4.1380	22.27	19.56	41.83	56.00	-14.17	QP
4.1380	12.60	19.56	32.16	46.00	-13.84	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

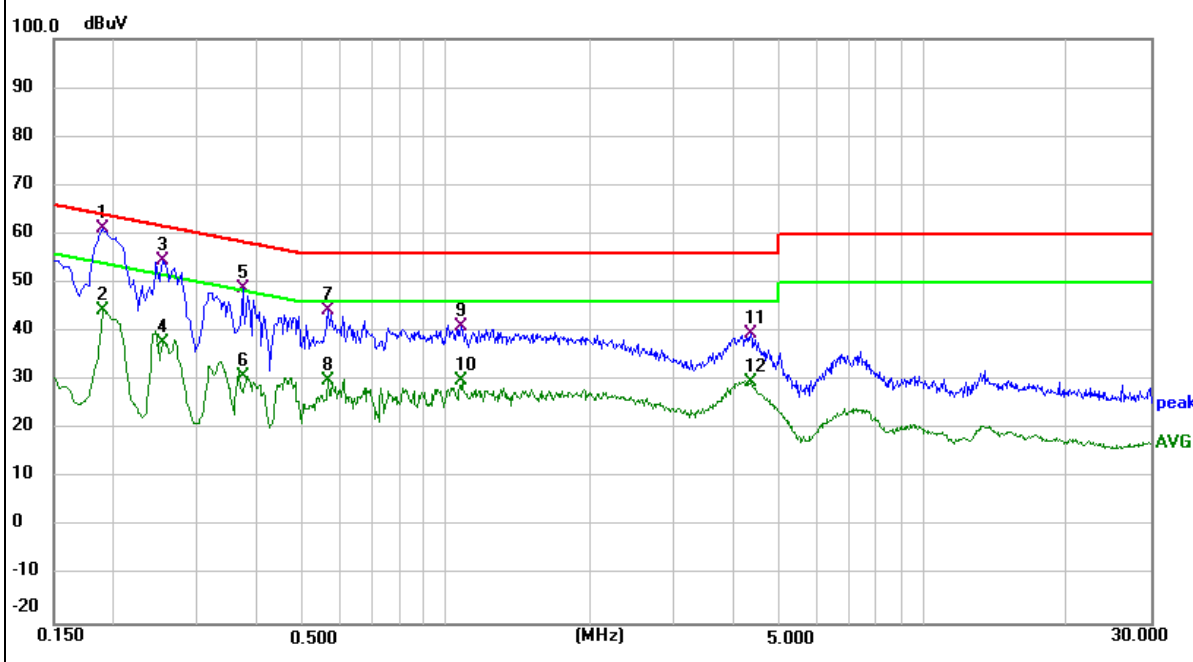


EUT :	Projector	Model Name :	F200
Temperature :	24.6℃	Relative Humidity :	63.4%
Pressure :	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Test Mode :	Mode 1 (5.6G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1900	41.60	19.41	61.01	64.04	-3.03	QP
0.1900	25.02	19.41	44.43	54.04	-9.61	AVG
0.2540	35.02	19.43	54.45	61.63	-7.18	QP
0.2540	18.41	19.43	37.84	51.63	-13.79	AVG
0.3740	29.39	19.50	48.89	58.41	-9.52	QP
0.3740	11.28	19.50	30.78	48.41	-17.63	AVG
0.5660	24.96	19.53	44.49	56.00	-11.51	QP
0.5660	10.35	19.53	29.88	46.00	-16.12	AVG
1.0740	21.46	19.52	40.98	56.00	-15.02	QP
1.0740	10.51	19.52	30.03	46.00	-15.97	AVG
4.3420	20.02	19.58	39.60	56.00	-16.40	QP
4.3420	9.97	19.58	29.55	46.00	-16.45	AVG

Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



3.2 RADIATED EMISSION MEASUREMENT

3.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209

3.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407(b)(7): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

Restricted Frequency(MHz)	Field Strength (μV/m)	Field Strength (dBμV/m)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log (uV/m)	300
0.490-1.705	24000/F(KHz)	20 log (uV/m)	30
1.705-30.0	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

Limits of Radiated Emission Measurement(Above 1000MHz)

Frequency(MHz)	Class B (dBuV/m) (at 3M)	
	PEAK	AVERAGE
Above 1000	74	54

Remark :1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. For Frequency 9kHz~30MHz:

Distance extrapolation factor =40log(Specific distance/ test distance)(dB);

Limit line=Specific limits(dBuV) + distance extrapolation factor.

For Frequency above 30MHz:

Distance extrapolation factor =20log(Specific distance/ test distance)(dB);

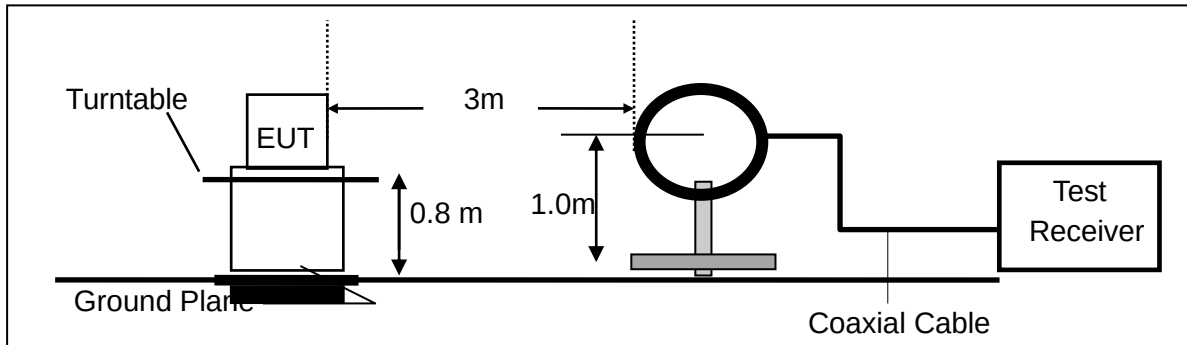
Limit line=Specific limits(dBuV) + distance extrapolation factor.

3.2.3 MEASURING INSTRUMENTS

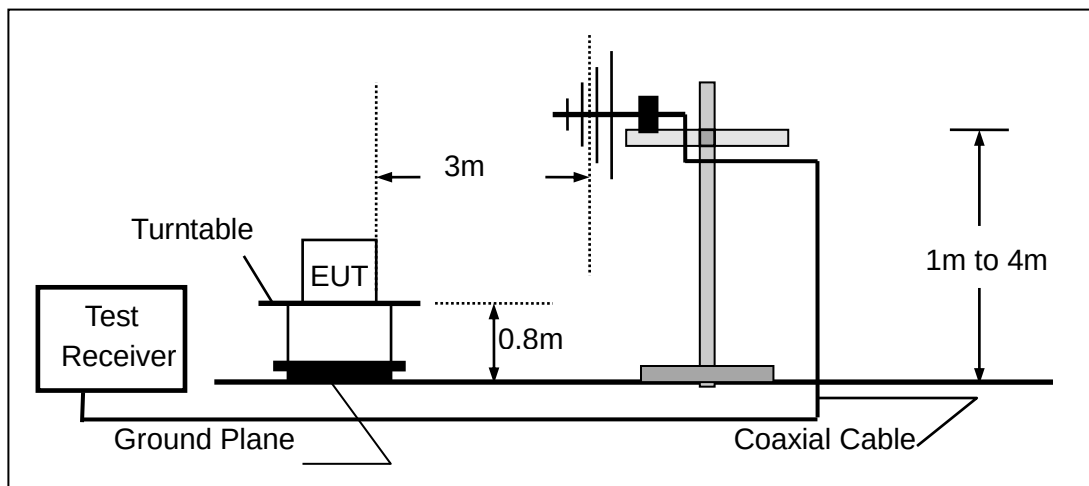
The Measuring equipment is listed in the section 6.3 of this test report.

3.2.4 TEST CONFIGURATION

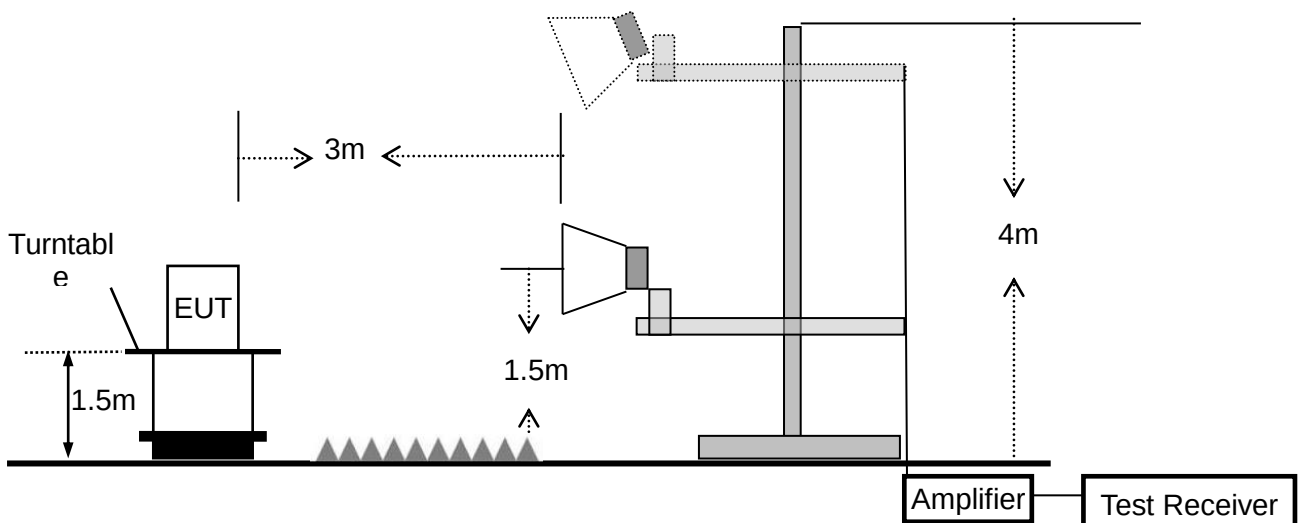
(a) For radiated emissions below 30MHz



(b) For radiated emissions from 30MHz to 1000MHz



(c) For radiated emissions above 1000MHz



3.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10 and CAN/CSA-CEI/IEC CISPR 22.

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT.

Use the following spectrum analyzer settings:

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1MHz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP

- The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.
- The EUT was placed on the top of a rotating table 0.8 m for below 1GHz and 1.5m for above 1GHz the ground at a 3 meter. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment or of the substitution antenna shall be 0.8 m for below 1GHz and 1.5m for above 1GHz; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 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 Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	1 MHz

Note: for the frequency ranges below 30 MHz, a narrower RBW is used for these ranges but the measured value should add a RBW correction factor (RBWCF) where $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW [kHz]})$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

3.2.6 TEST RESULTS (9KHz – 30 MHz)

EUT:	Projector	Model Name. :	F200
Temperature:	20 °C	Relative Humidity:	48%
Pressure:	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX	Polarization :	--

Freq.	Reading	Limit	Margin	State
(MHz)	(dBuV/m)	(dBuV/m)	(dB)	P/F
--	--	--	--	N/A
--	--	--	--	N/A

NOTE:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

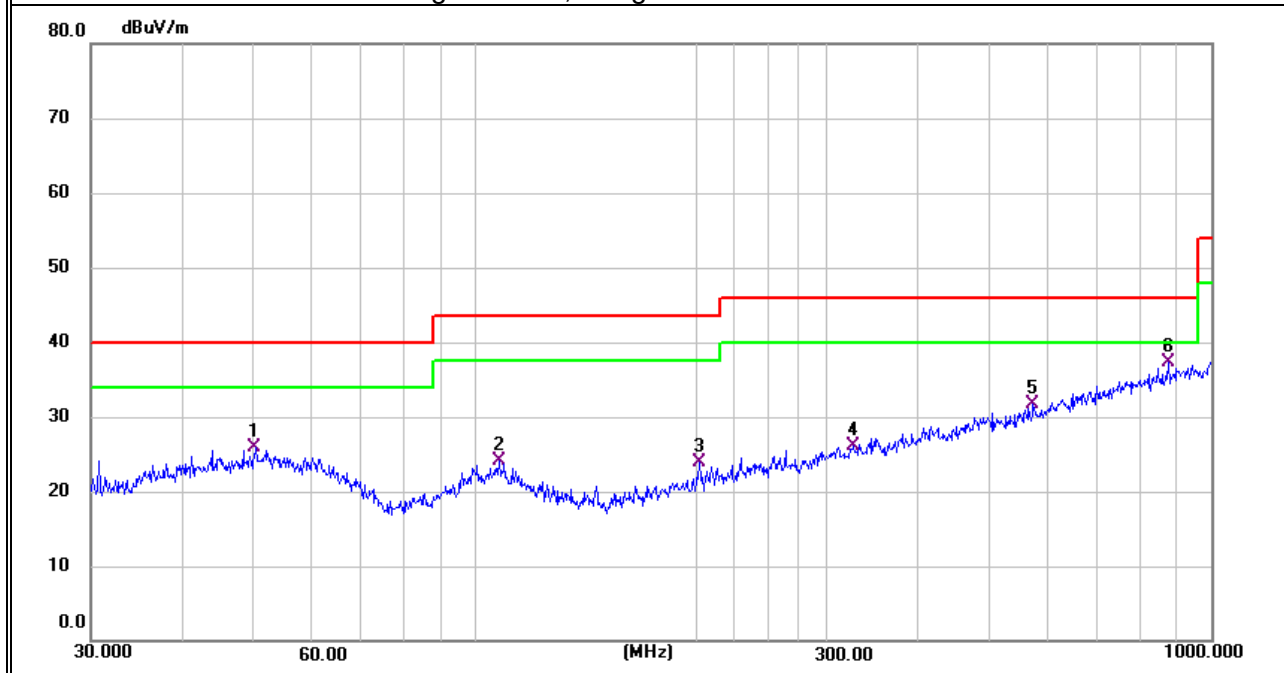
3.2.7 TEST RESULTS (30MHz – 1GHz)

EUT :	Projector	Model Name. :	F200
Temperature :	25.3℃	Relative Humidity :	51%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX(5.6G WIFI)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	50.2320	5.53	20.41	25.94	40.00	-14.06	QP
V	107.8880	5.60	18.59	24.19	43.50	-19.31	QP
V	201.3930	6.47	17.49	23.96	43.50	-19.54	QP
V	326.7400	4.74	21.37	26.11	46.00	-19.89	QP
V	572.6140	6.18	25.52	31.70	46.00	-14.30	QP
V	875.2470	7.23	30.06	37.29	46.00	-8.71	QP

Remark:

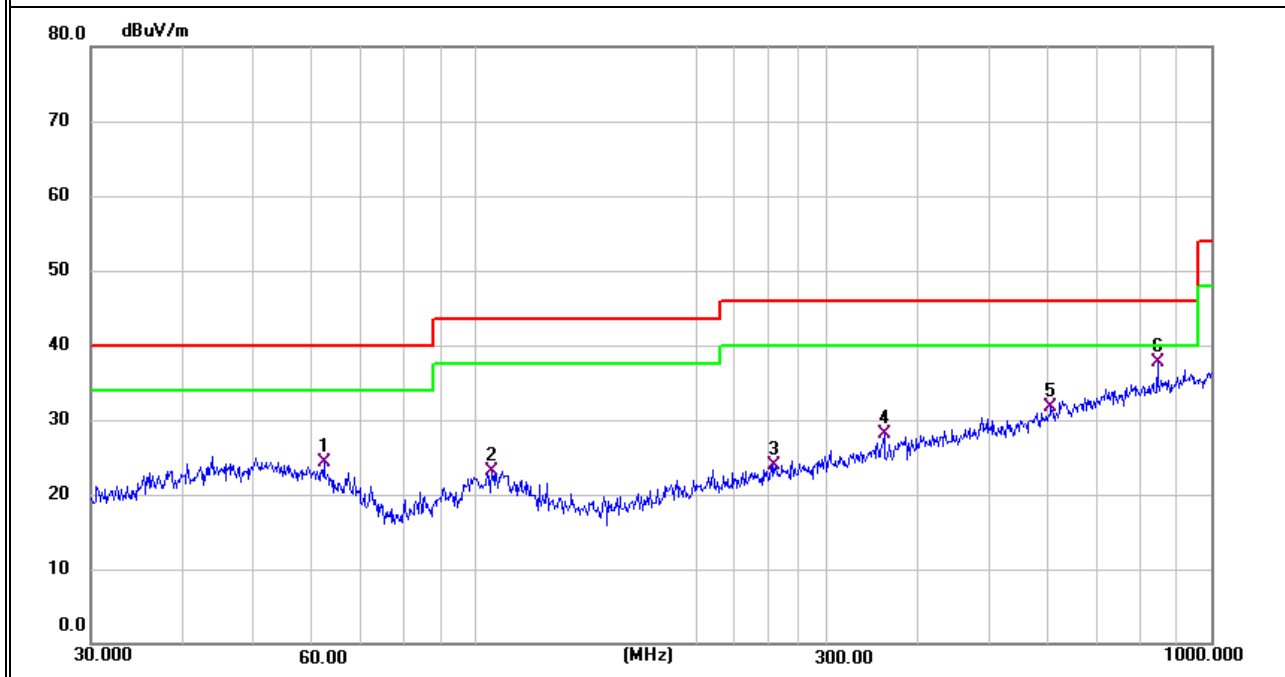
Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	62.2130	5.80	18.58	24.38	40.00	-15.62	QP
H	105.2720	4.78	18.24	23.02	43.50	-20.48	QP
H	255.6230	4.58	19.29	23.87	46.00	-22.13	QP
H	359.1860	6.68	21.40	28.08	46.00	-17.92	QP
H	605.6589	5.23	26.39	31.62	46.00	-14.38	QP
H	845.0880	7.26	30.42	37.68	46.00	-8.32	QP

Remark:

Emission Level = Meter Reading + Factor, Margin= Emission Level - Limit



Note (1) All modes have been tested, just the worst mode has been recorded in the report.
 (2) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

3.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	Projector	Model Name. :	F200
Temperature :	25.6 °C	Relative Humidity :	55.7%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX(5.6G) - 802.11a/n20/n40/ac20/ac40/ax20/ax40		

All the modulation modes have been tested, and the worst-case result was 802.11a/ac20/ax20. Only the worst-case mode reported.

802.11a 5500

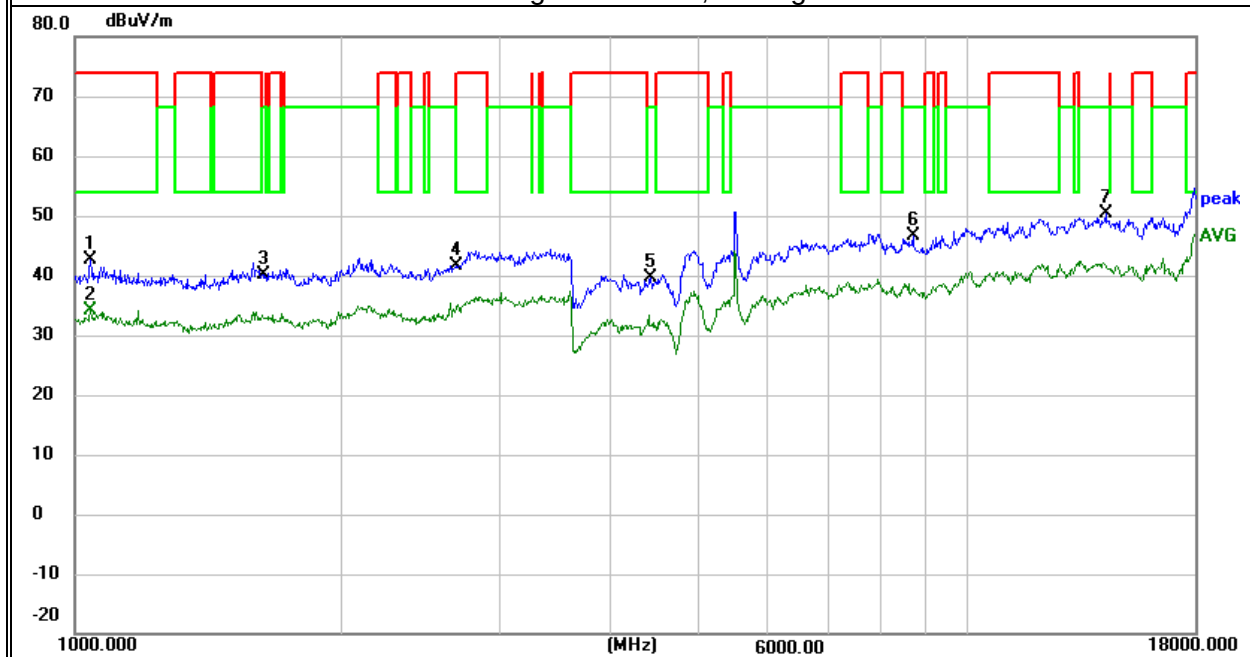
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1043.350	61.16	-18.52	42.64	74.00	-31.36	peak
V	1043.350	52.70	-18.52	34.18	54.00	-19.82	AVG
V	1626.875	56.77	-16.60	40.17	68.20	-28.03	peak
V	2686.825	52.95	-11.32	41.63	68.20	-26.57	peak
V	4424.650	47.35	-7.71	39.64	68.20	-28.56	peak
V	8701.000	47.26	-0.72	46.54	68.20	-21.66	peak
V	14284.225	44.53	5.79	50.32	68.20	-17.88	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



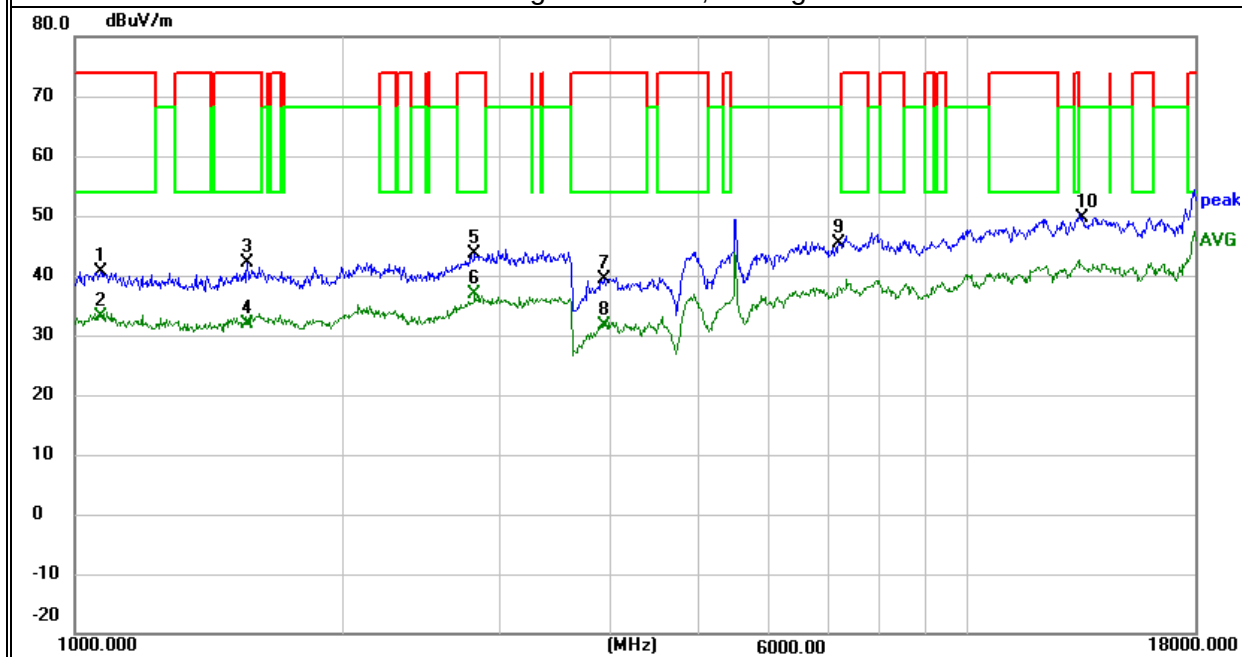
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1070.125	58.87	-18.26	40.61	74.00	-33.39	peak
H	1070.125	51.32	-18.26	33.06	54.00	-20.94	AVG
H	1561.850	59.04	-16.81	42.23	74.00	-31.77	peak
H	1561.850	48.81	-16.81	32.00	54.00	-22.00	AVG
H	2813.475	53.97	-10.35	43.62	74.00	-30.38	peak
H	2813.475	47.13	-10.35	36.78	54.00	-17.22	AVG
H	3926.550	47.59	-8.19	39.40	74.00	-34.60	peak
H	3926.550	39.80	-8.19	31.61	54.00	-22.39	AVG
H	7192.250	47.48	-2.16	45.32	68.20	-22.88	peak
H	13469.075	44.22	5.40	49.62	68.20	-18.58	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5600

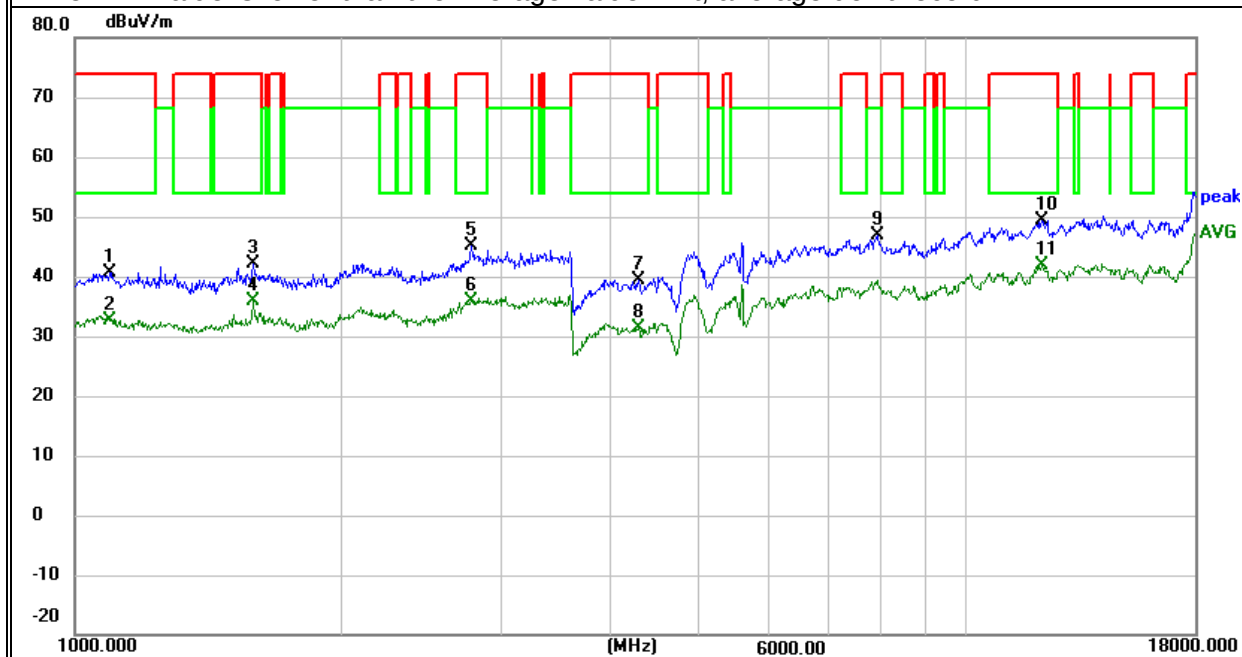
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1096.050	58.64	-17.99	40.65	74.00	-33.35	peak
V	1096.050	50.64	-17.99	32.65	54.00	-21.35	AVG
V	1584.375	58.66	-16.57	42.09	74.00	-31.91	peak
V	1584.375	52.48	-16.57	35.91	54.00	-18.09	AVG
V	2788.400	55.58	-10.52	45.06	74.00	-28.94	peak
V	2788.400	46.50	-10.52	35.98	54.00	-18.02	AVG
V	4280.575	47.08	-7.82	39.26	74.00	-34.74	peak
V	4280.575	39.26	-7.82	31.44	54.00	-22.56	AVG
V	7949.600	48.06	-1.28	46.78	68.20	-21.42	peak
V	12133.300	44.64	4.69	49.33	74.00	-24.67	peak
V	12133.300	37.22	4.69	41.91	54.00	-12.09	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



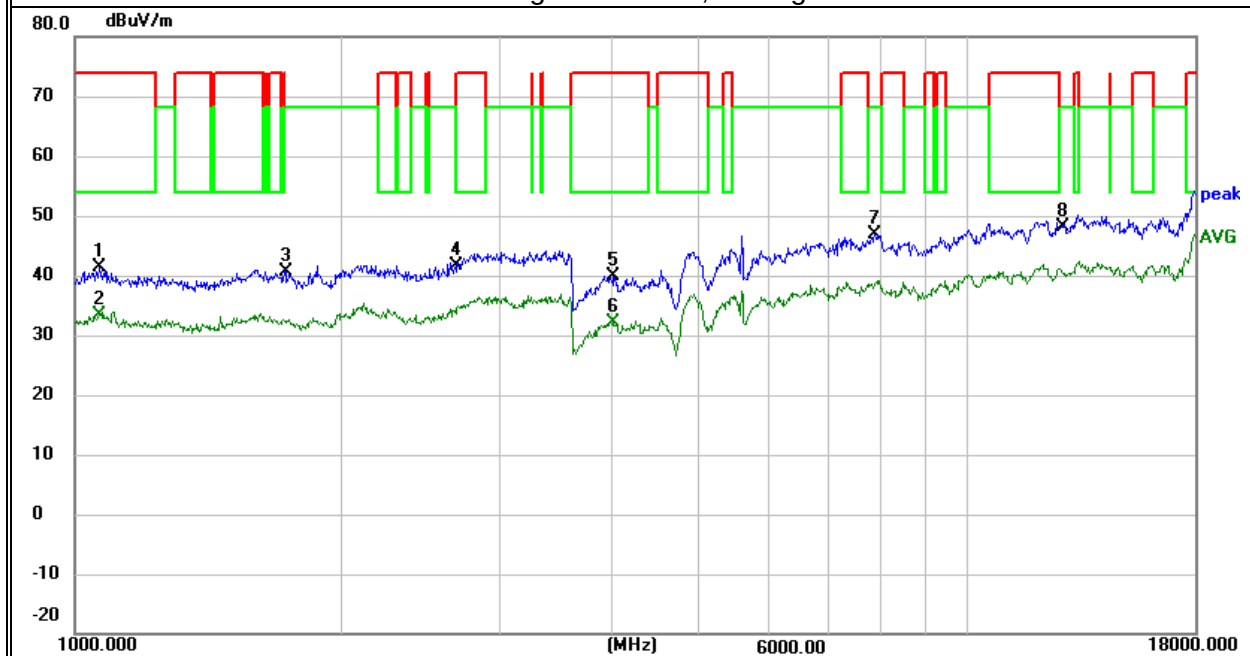
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1067.575	59.62	-18.29	41.33	74.00	-32.67	peak
H	1067.575	51.56	-18.29	33.27	54.00	-20.73	AVG
H	1723.350	57.23	-16.58	40.65	68.20	-27.55	peak
H	2686.400	53.06	-11.32	41.74	68.20	-26.46	peak
H	4025.575	48.00	-8.23	39.77	74.00	-34.23	peak
H	4025.575	40.29	-8.23	32.06	54.00	-21.94	AVG
H	7891.800	48.63	-1.68	46.95	68.20	-21.25	peak
H	12828.175	44.16	4.08	48.24	68.20	-19.96	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5700

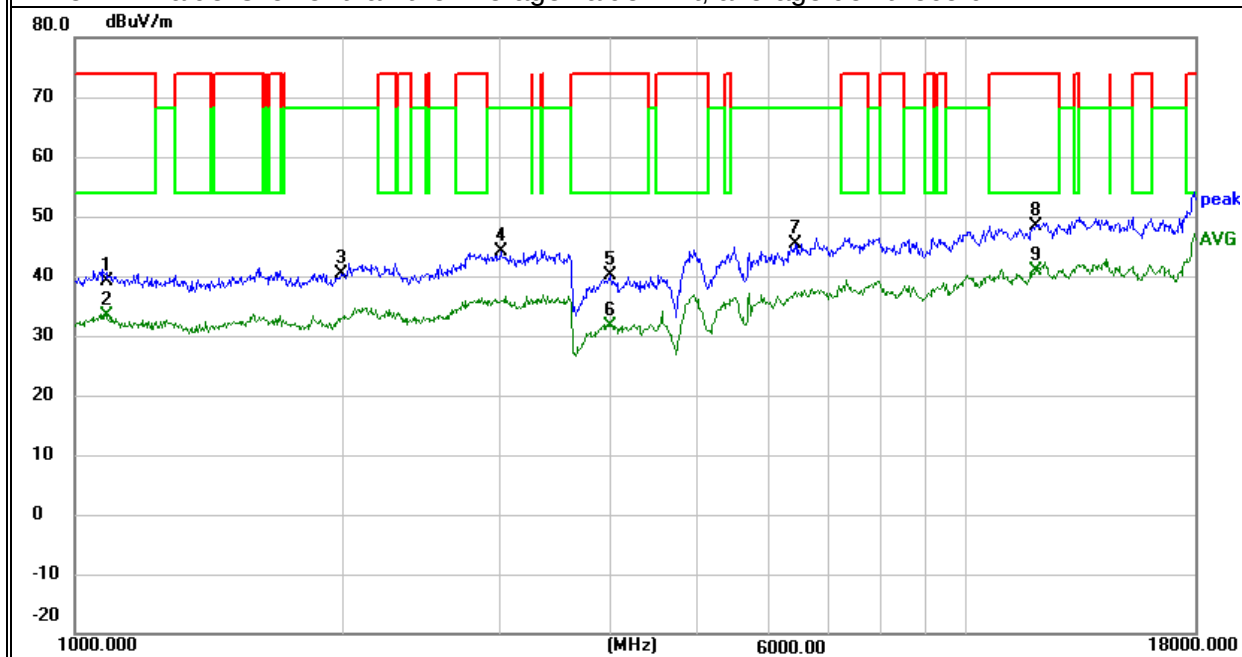
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1086.700	57.33	-18.10	39.23	74.00	-34.77	peak
V	1086.700	51.38	-18.10	33.28	54.00	-20.72	AVG
V	1989.825	54.26	-13.82	40.44	68.20	-27.76	peak
V	3005.150	53.66	-9.49	44.17	68.20	-24.03	peak
V	3991.150	48.12	-7.97	40.15	74.00	-33.85	peak
V	3991.150	39.63	-7.97	31.66	54.00	-22.34	AVG
V	6425.550	49.44	-4.03	45.41	68.20	-22.79	peak
V	11970.525	43.21	5.24	48.45	74.00	-25.55	peak
V	11970.525	35.62	5.24	40.86	54.00	-13.14	AVG

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



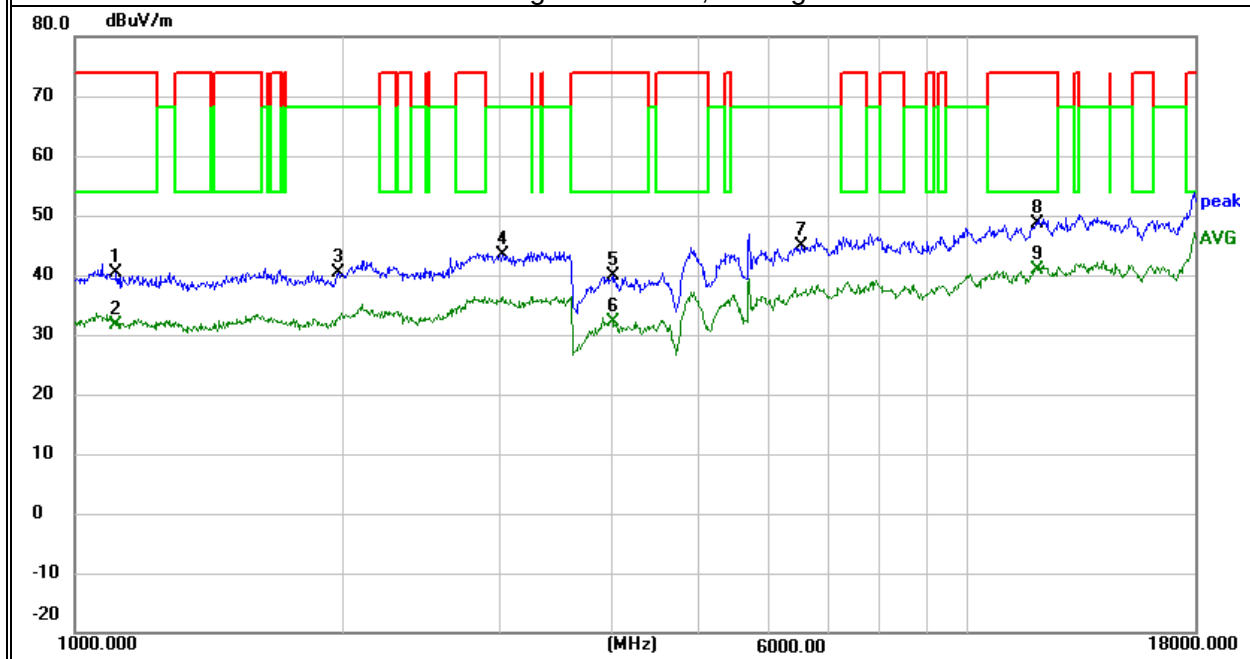
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1116.025	58.62	-18.26	40.36	74.00	-33.64	peak
H	1116.025	49.91	-18.26	31.65	54.00	-22.35	AVG
H	1976.650	54.57	-14.13	40.44	68.20	-27.76	peak
H	3016.625	52.98	-9.51	43.47	68.20	-24.73	peak
H	4005.175	47.82	-8.01	39.81	74.00	-34.19	peak
H	4005.175	40.19	-8.01	32.18	54.00	-21.82	AVG
H	6537.325	48.42	-3.54	44.88	68.20	-23.32	peak
H	11987.100	43.41	5.26	48.67	74.00	-25.33	peak
H	11987.100	35.59	5.26	40.85	54.00	-13.15	AVG

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ac20 5500

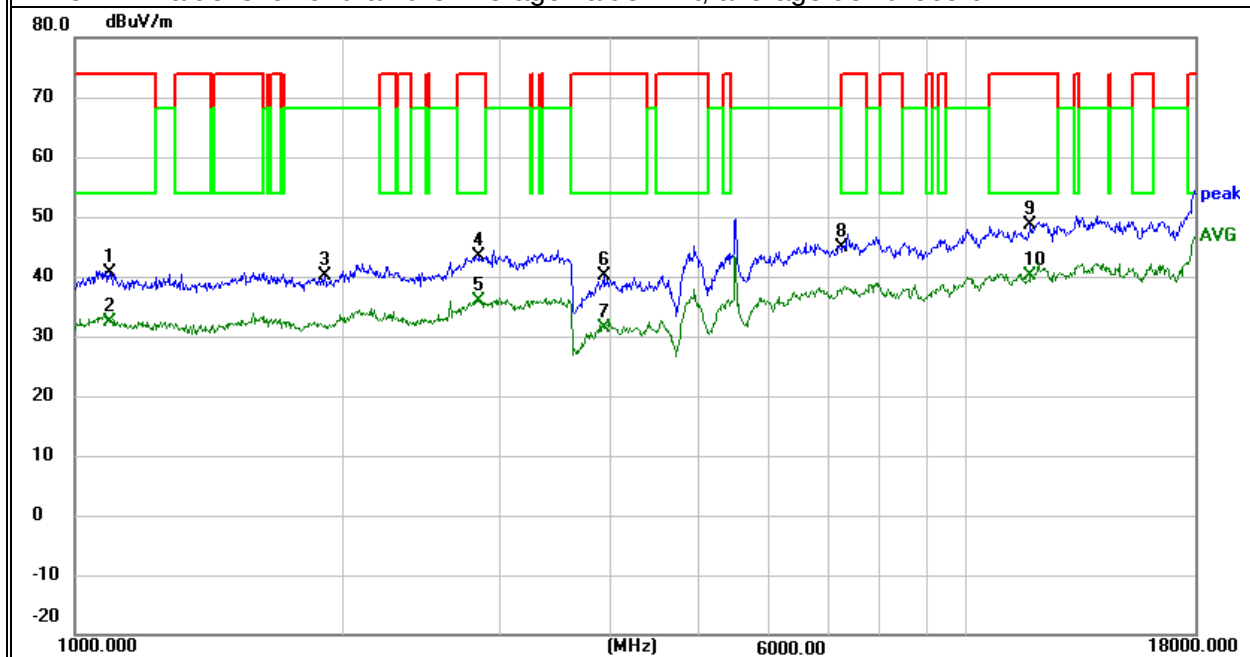
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1094.350	58.67	-18.01	40.66	74.00	-33.34	peak
V	1094.350	50.42	-18.01	32.41	54.00	-21.59	AVG
V	1906.100	54.89	-14.84	40.05	68.20	-28.15	peak
V	2843.225	53.64	-10.23	43.41	74.00	-30.59	peak
V	2843.225	46.11	-10.23	35.88	54.00	-18.12	AVG
V	3914.225	48.35	-8.29	40.06	74.00	-33.94	peak
V	3914.225	39.58	-8.29	31.29	54.00	-22.71	AVG
V	7230.925	47.37	-2.51	44.86	68.20	-23.34	peak
V	11784.800	44.26	4.28	48.54	74.00	-25.46	peak
V	11784.800	35.77	4.28	40.05	54.00	-13.95	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



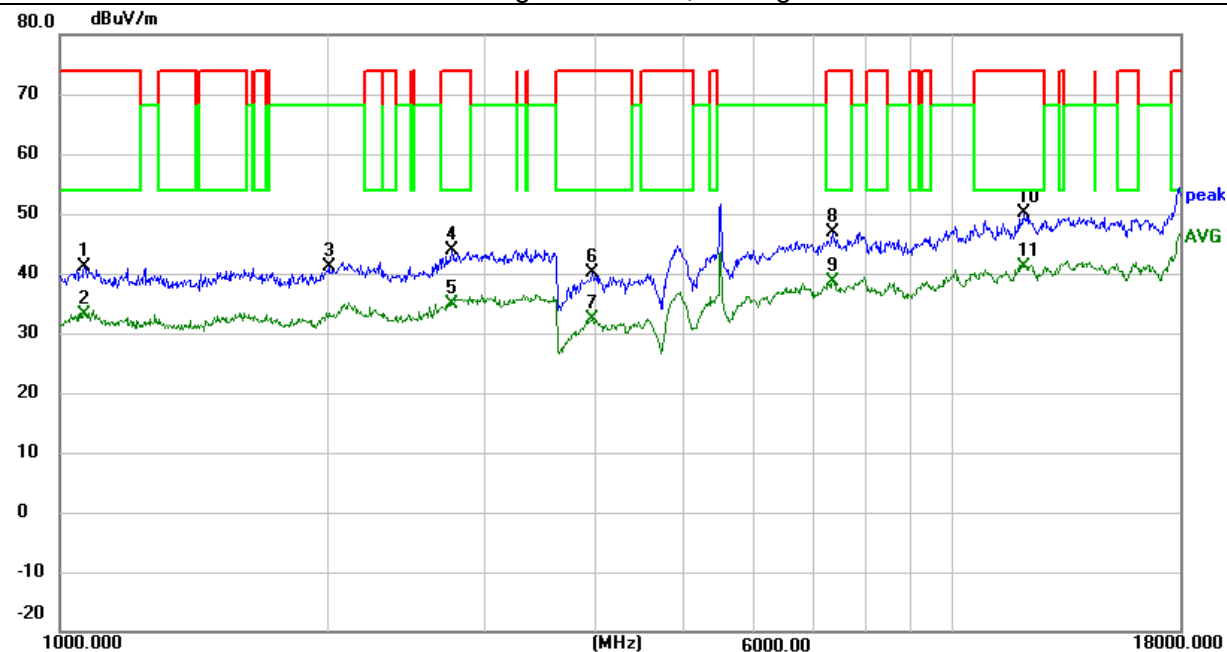
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1068.425	59.46	-18.28	41.18	74.00	-32.82	peak
H	1068.425	51.40	-18.28	33.12	54.00	-20.88	AVG
H	2002.575	54.60	-13.57	41.03	68.20	-27.17	peak
H	2752.700	54.60	-10.80	43.80	74.00	-30.20	peak
H	2752.700	45.63	-10.80	34.83	54.00	-19.17	AVG
H	3958.000	48.20	-8.00	40.20	74.00	-33.80	peak
H	3958.000	40.32	-8.00	32.32	54.00	-21.68	AVG
H	7361.400	48.91	-2.05	46.86	74.00	-27.14	peak
H	7361.400	40.59	-2.05	38.54	54.00	-15.46	AVG
H	12044.050	44.96	5.07	50.03	74.00	-23.97	peak
H	12044.050	36.15	5.07	41.22	54.00	-12.78	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ac20 5600

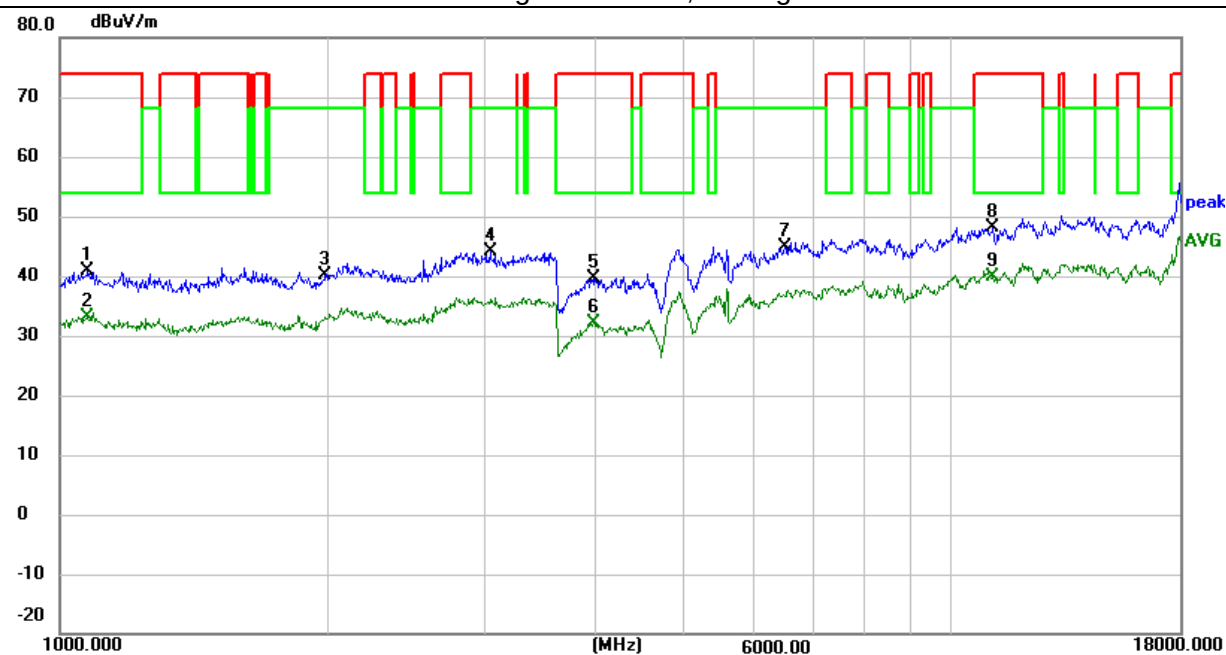
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1077.350	59.11	-18.19	40.92	74.00	-33.08	peak
V	1077.350	51.26	-18.19	33.07	54.00	-20.93	AVG
V	1985.575	54.08	-13.93	40.15	68.20	-28.05	peak
V	3041.275	53.68	-9.59	44.09	68.20	-24.11	peak
V	3964.375	47.67	-8.00	39.67	74.00	-34.33	peak
V	3964.375	40.16	-8.00	32.16	54.00	-21.84	AVG
V	6502.900	48.84	-4.03	44.81	68.20	-23.39	peak
V	11113.725	44.51	3.51	48.02	74.00	-25.98	peak
V	11113.725	36.44	3.51	39.95	54.00	-14.05	AVG

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



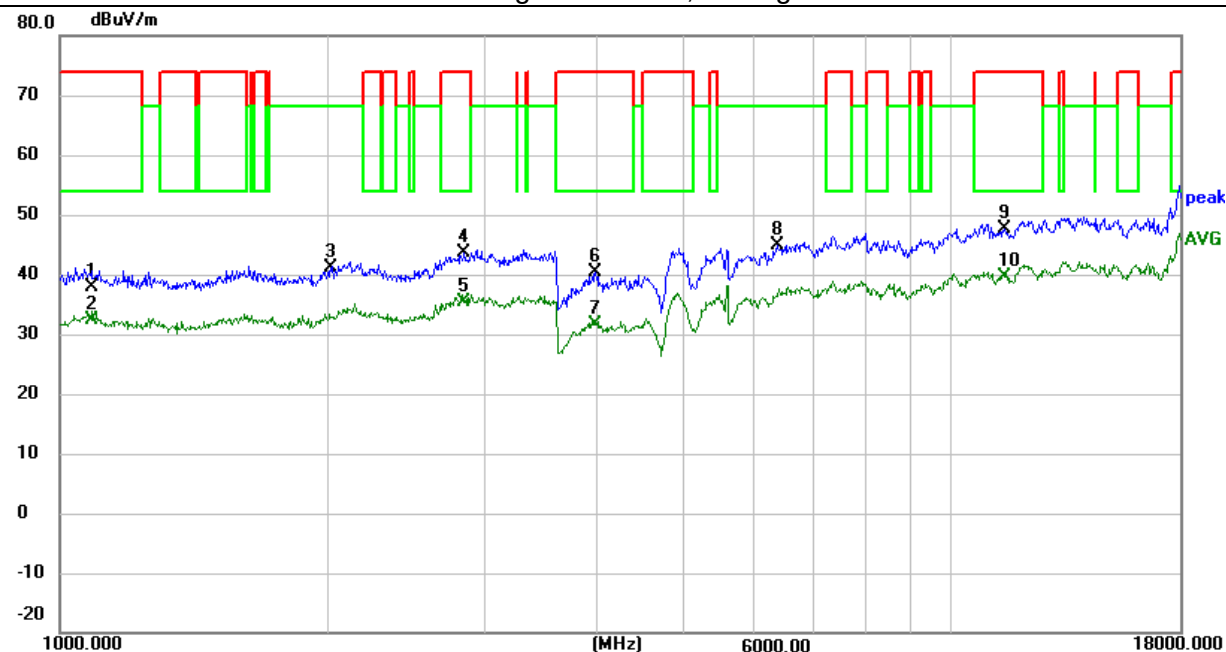
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1087.125	56.06	-18.09	37.97	74.00	-36.03	peak
H	1087.125	50.39	-18.09	32.30	54.00	-21.70	AVG
H	2014.900	54.58	-13.39	41.19	68.20	-27.01	peak
H	2839.825	53.92	-10.25	43.67	74.00	-30.33	peak
H	2839.825	45.72	-10.25	35.47	54.00	-18.53	AVG
H	3990.725	48.28	-7.97	40.31	74.00	-33.69	peak
H	3990.725	39.72	-7.97	31.75	54.00	-22.25	AVG
H	6371.575	48.80	-4.00	44.80	68.20	-23.40	peak
H	11441.400	44.37	3.37	47.74	74.00	-26.26	peak
H	11441.400	36.24	3.37	39.61	54.00	-14.39	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ac20 5700

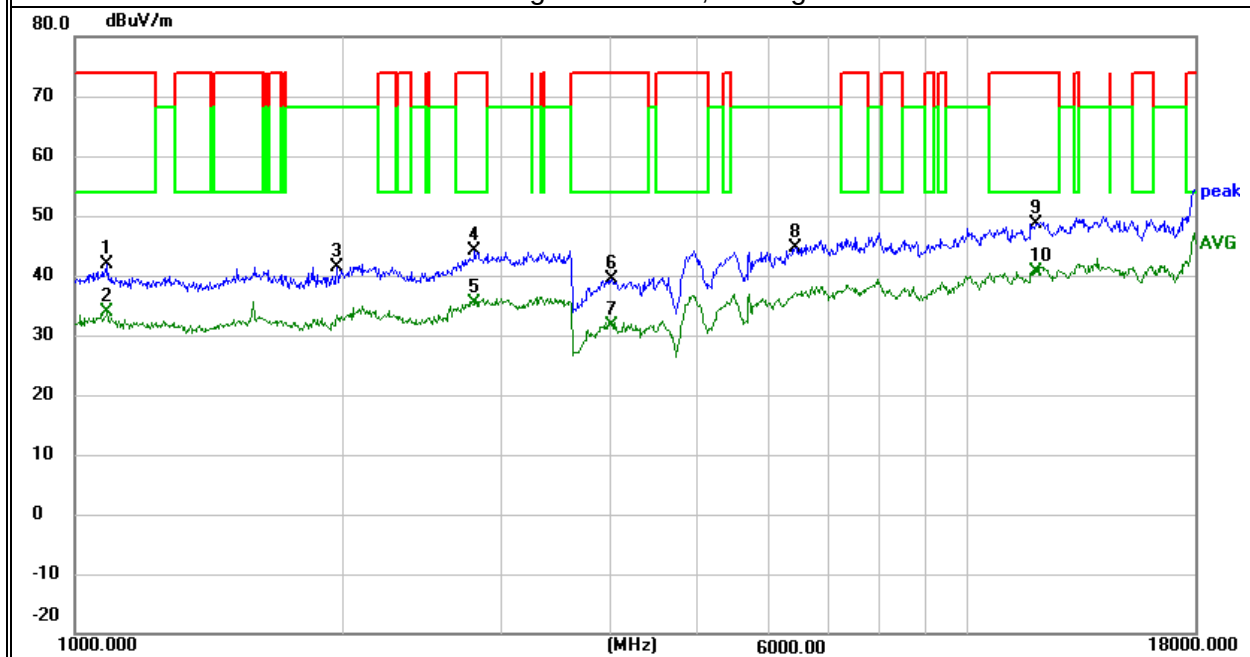
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1088.825	59.84	-18.06	41.78	74.00	-32.22	peak
V	1088.825	51.98	-18.06	33.92	54.00	-20.08	AVG
V	1971.550	55.69	-14.24	41.45	68.20	-26.75	peak
V	2809.650	54.45	-10.38	44.07	74.00	-29.93	peak
V	2809.650	45.80	-10.38	35.42	54.00	-18.58	AVG
V	4003.050	47.47	-7.99	39.48	74.00	-34.52	peak
V	4003.050	39.67	-7.99	31.68	54.00	-22.32	AVG
V	6428.525	48.72	-4.04	44.68	68.20	-23.52	peak
V	11955.650	43.43	5.23	48.66	74.00	-25.34	peak
V	11955.650	35.48	5.23	40.71	54.00	-13.29	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



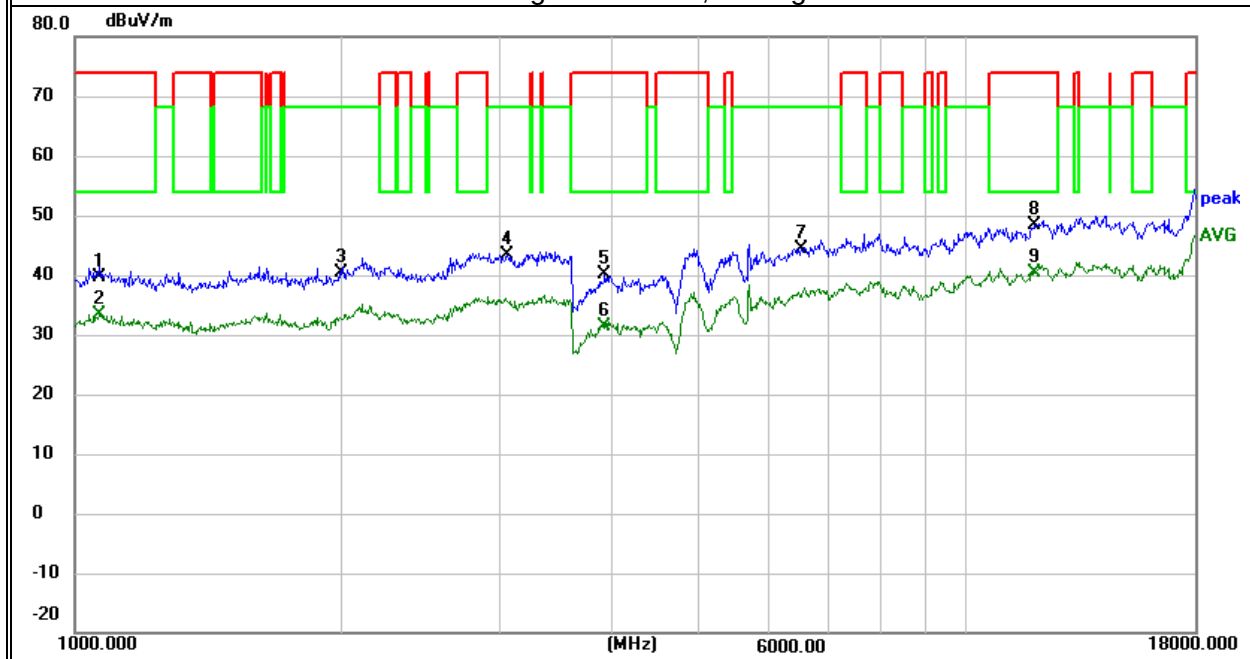
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1068.425	57.90	-18.28	39.62	74.00	-34.38	peak
H	1068.425	51.56	-18.28	33.28	54.00	-20.72	AVG
H	1991.100	54.15	-13.80	40.35	68.20	-27.85	peak
H	3056.575	52.94	-9.60	43.34	68.20	-24.86	peak
H	3926.975	48.23	-8.18	40.05	74.00	-33.95	peak
H	3926.975	39.59	-8.18	31.41	54.00	-22.59	AVG
H	6530.950	48.06	-3.63	44.43	68.20	-23.77	peak
H	11909.325	43.16	5.17	48.33	74.00	-25.67	peak
H	11909.325	35.25	5.17	40.42	54.00	-13.58	AVG

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ax20 5500

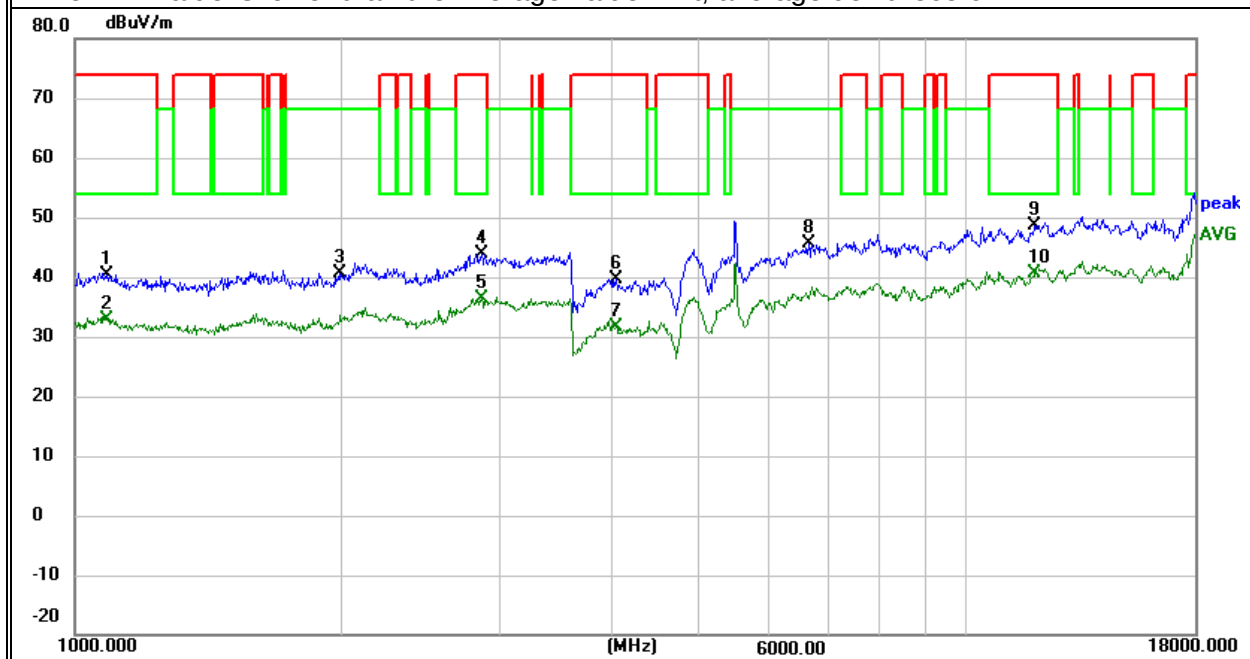
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1089.675	58.48	-18.05	40.43	74.00	-33.57	peak
V	1089.675	50.92	-18.05	32.87	54.00	-21.13	AVG
V	1981.750	54.72	-14.01	40.71	68.20	-27.49	peak
V	2858.525	54.11	-10.16	43.95	74.00	-30.05	peak
V	2858.525	46.44	-10.16	36.28	54.00	-17.72	AVG
V	4047.250	48.09	-8.44	39.65	74.00	-34.35	peak
V	4047.250	39.97	-8.44	31.53	54.00	-22.47	AVG
V	6640.600	49.18	-3.56	45.62	68.20	-22.58	peak
V	11939.925	43.49	5.21	48.70	74.00	-25.30	peak
V	11939.925	35.43	5.21	40.64	54.00	-13.36	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



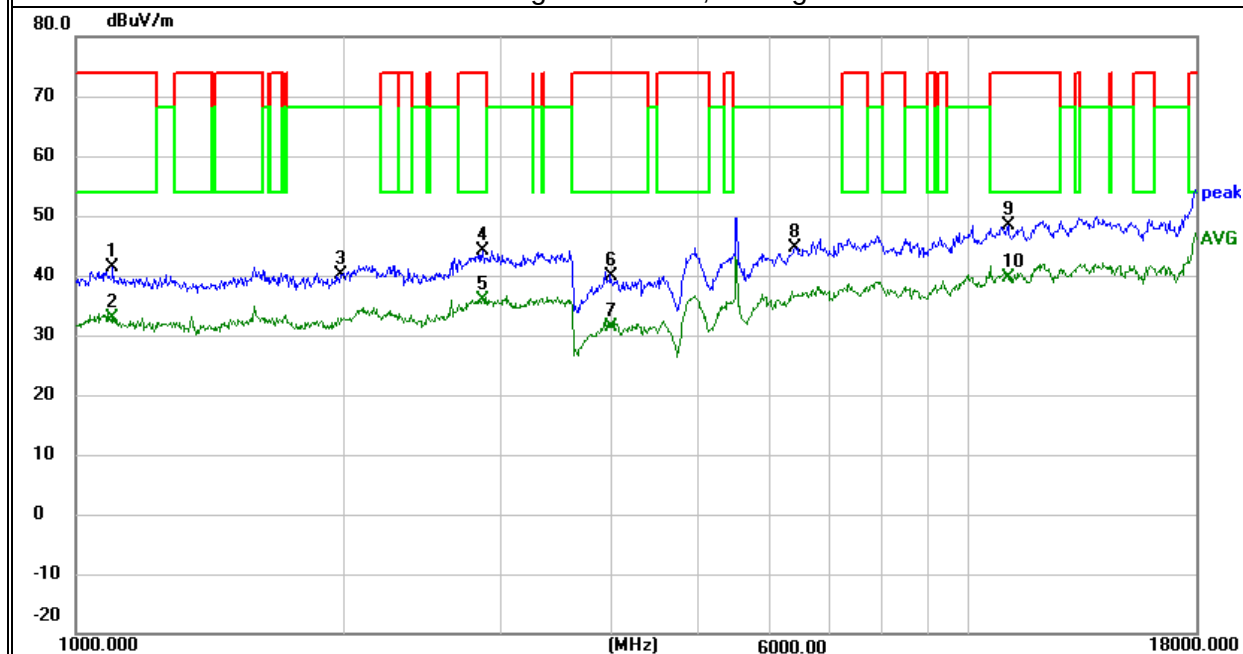
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1100.725	59.32	-17.97	41.35	74.00	-32.65	peak
H	1100.725	50.75	-17.97	32.78	54.00	-21.22	AVG
H	1982.600	54.18	-14.00	40.18	68.20	-28.02	peak
H	2862.350	54.23	-10.16	44.07	74.00	-29.93	peak
H	2862.350	45.94	-10.16	35.78	54.00	-18.22	AVG
H	3983.075	47.97	-7.98	39.99	74.00	-34.01	peak
H	3983.075	39.33	-7.98	31.35	54.00	-22.65	AVG
H	6408.975	48.66	-4.01	44.65	68.20	-23.55	peak
H	11078.450	44.69	3.65	48.34	74.00	-25.66	peak
H	11078.450	35.94	3.65	39.59	54.00	-14.41	AVG

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ax20 5600

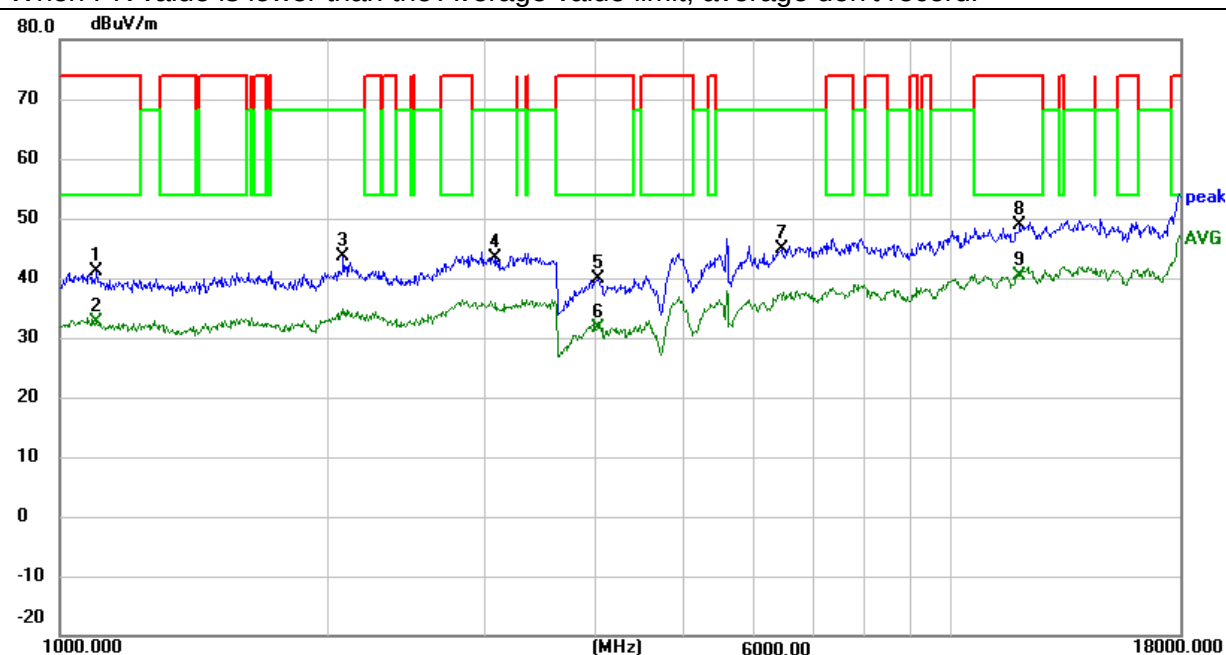
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1100.300	59.12	-17.96	41.16	74.00	-32.84	peak
V	1100.300	50.58	-17.96	32.62	54.00	-21.38	AVG
V	2081.200	56.19	-12.62	43.57	68.20	-24.63	peak
V	3084.625	52.89	-9.56	43.33	68.20	-24.87	peak
V	4014.950	48.08	-8.11	39.97	74.00	-34.03	peak
V	4014.950	39.73	-8.11	31.62	54.00	-22.38	AVG
V	6440.425	49.00	-4.06	44.94	68.20	-23.26	peak
V	11925.050	43.74	5.19	48.93	74.00	-25.07	peak
V	11925.050	35.19	5.19	40.38	54.00	-13.62	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



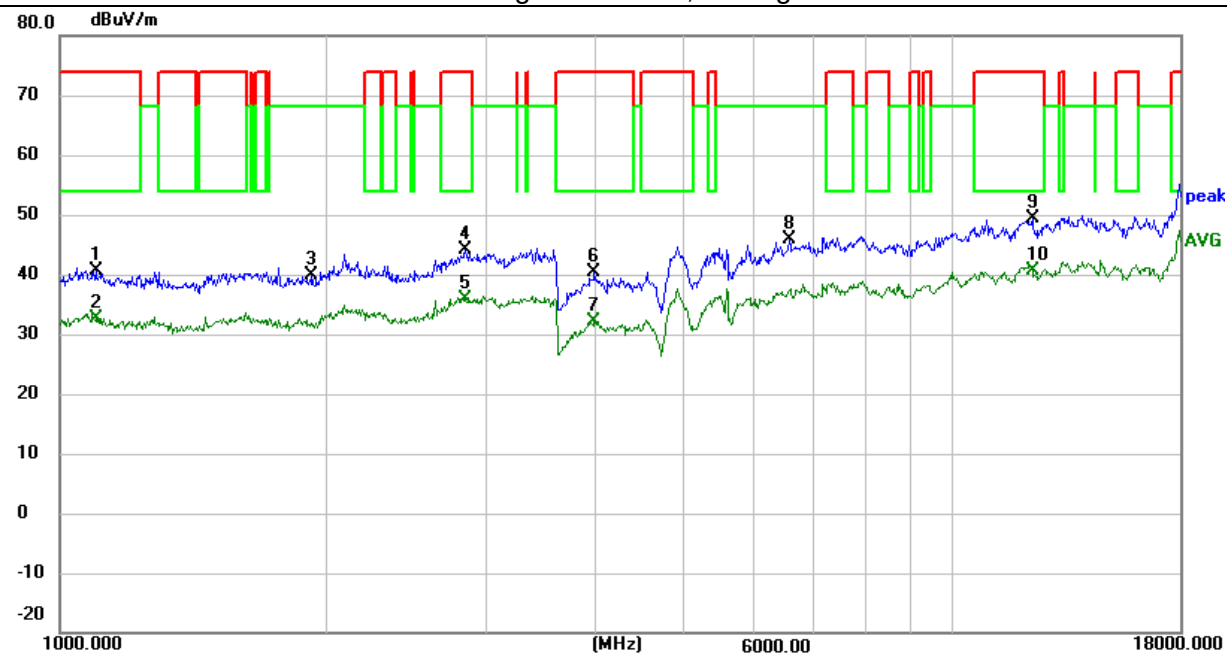
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1099.025	58.66	-17.96	40.70	74.00	-33.30	peak
H	1099.025	50.61	-17.96	32.65	54.00	-21.35	AVG
H	1918.425	54.58	-14.80	39.78	68.20	-28.42	peak
H	2849.600	54.40	-10.21	44.19	74.00	-29.81	peak
H	2849.600	46.07	-10.21	35.86	54.00	-18.14	AVG
H	3980.525	48.25	-7.99	40.26	74.00	-33.74	peak
H	3980.525	40.00	-7.99	32.01	54.00	-21.99	AVG
H	6565.800	49.10	-3.33	45.77	68.20	-22.43	peak
H	12316.050	44.41	5.06	49.47	74.00	-24.53	peak
H	12316.050	35.55	5.06	40.61	54.00	-13.39	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ax20 5700

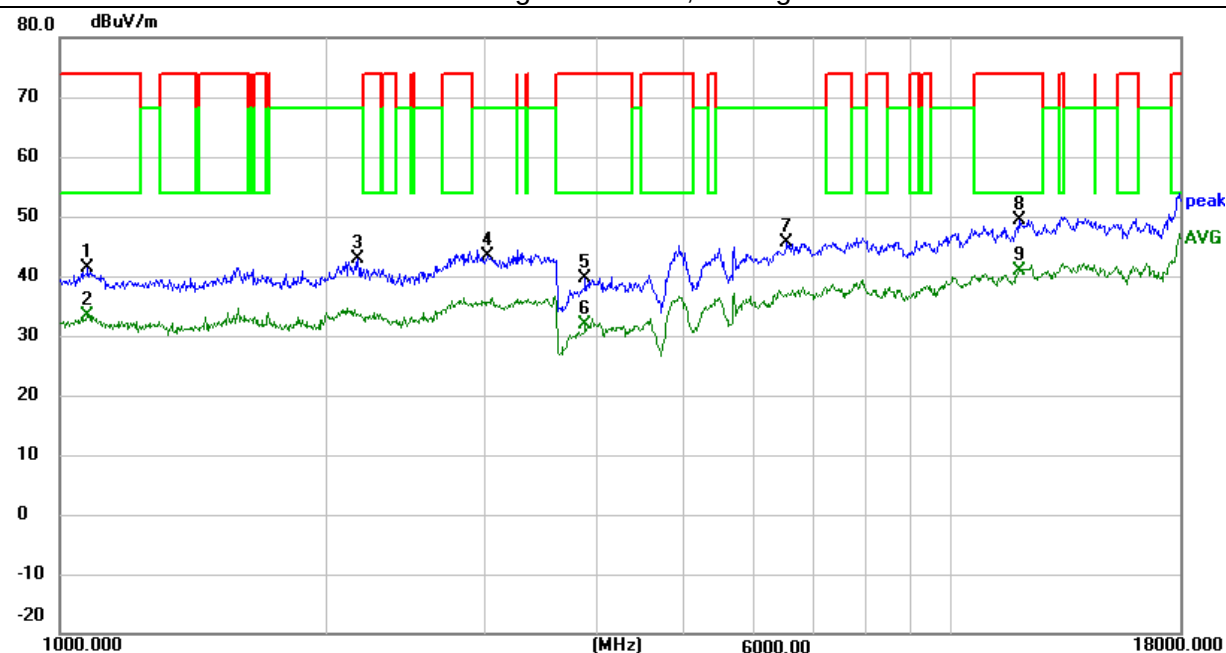
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1076.500	59.49	-18.20	41.29	74.00	-32.71	peak
V	1076.500	51.59	-18.20	33.39	54.00	-20.61	AVG
V	2163.225	55.96	-13.03	42.93	68.20	-25.27	peak
V	3019.175	52.78	-9.52	43.26	68.20	-24.94	peak
V	3888.725	48.09	-8.44	39.65	74.00	-34.35	peak
V	3888.725	40.32	-8.44	31.88	54.00	-22.12	AVG
V	6544.550	49.11	-3.44	45.67	68.20	-22.53	peak
V	11873.625	44.47	4.99	49.46	74.00	-24.54	peak
V	11873.625	35.95	4.99	40.94	54.00	-13.06	AVG

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



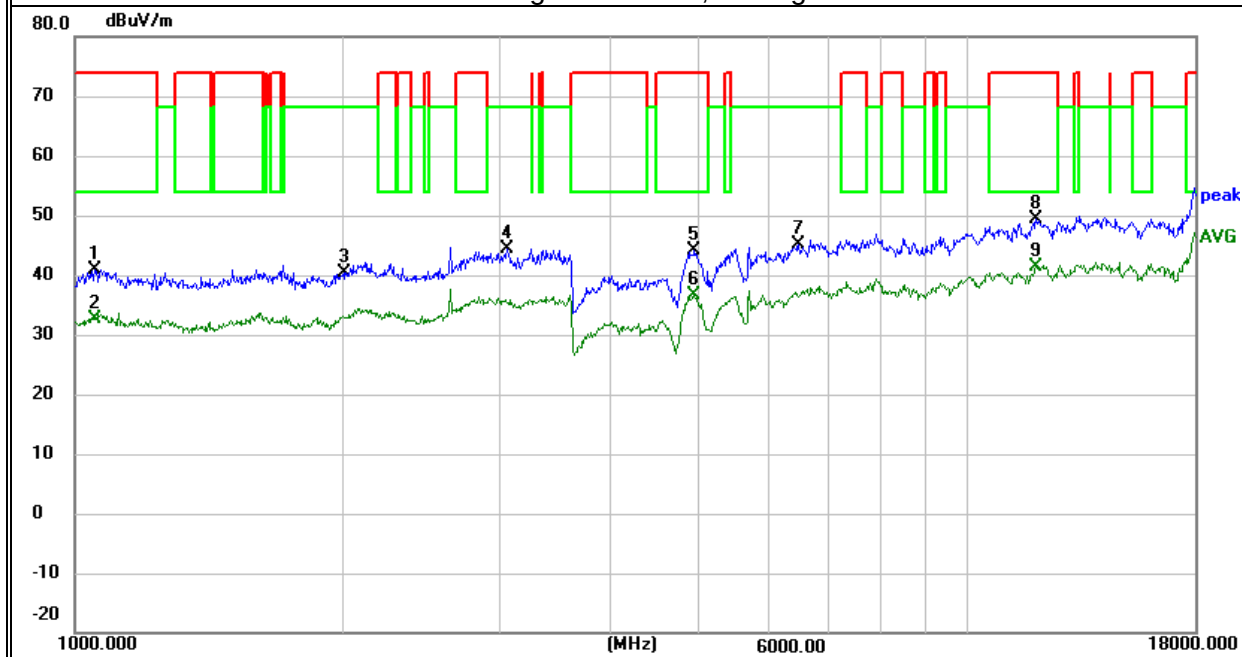
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1055.675	59.37	-18.41	40.96	74.00	-33.04	peak
H	1055.675	51.13	-18.41	32.72	54.00	-21.28	AVG
H	2010.650	53.76	-13.45	40.31	68.20	-27.89	peak
H	3056.575	53.86	-9.60	44.26	68.20	-23.94	peak
H	4953.775	50.22	-6.03	44.19	74.00	-29.81	peak
H	4953.775	42.59	-6.03	36.56	54.00	-17.44	AVG
H	6474.000	49.20	-4.08	45.12	68.20	-23.08	peak
H	11954.800	44.22	5.23	49.45	74.00	-24.55	peak
H	11954.800	36.03	5.23	41.26	54.00	-12.74	AVG

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



3.2.9 TEST RESULTS (18GHz-40GHz)

EUT :	Projector	Model Name. :	F200
Temperature :	25.6 °C	Relative Humidity :	55.7%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX (5.6G)- 802.11a/n20/n40/ac20/ac40/ax20/ax40		

All the modulation modes have been tested, and the worst-case result was 802.11a. Only the worst-case mode reported.

5500

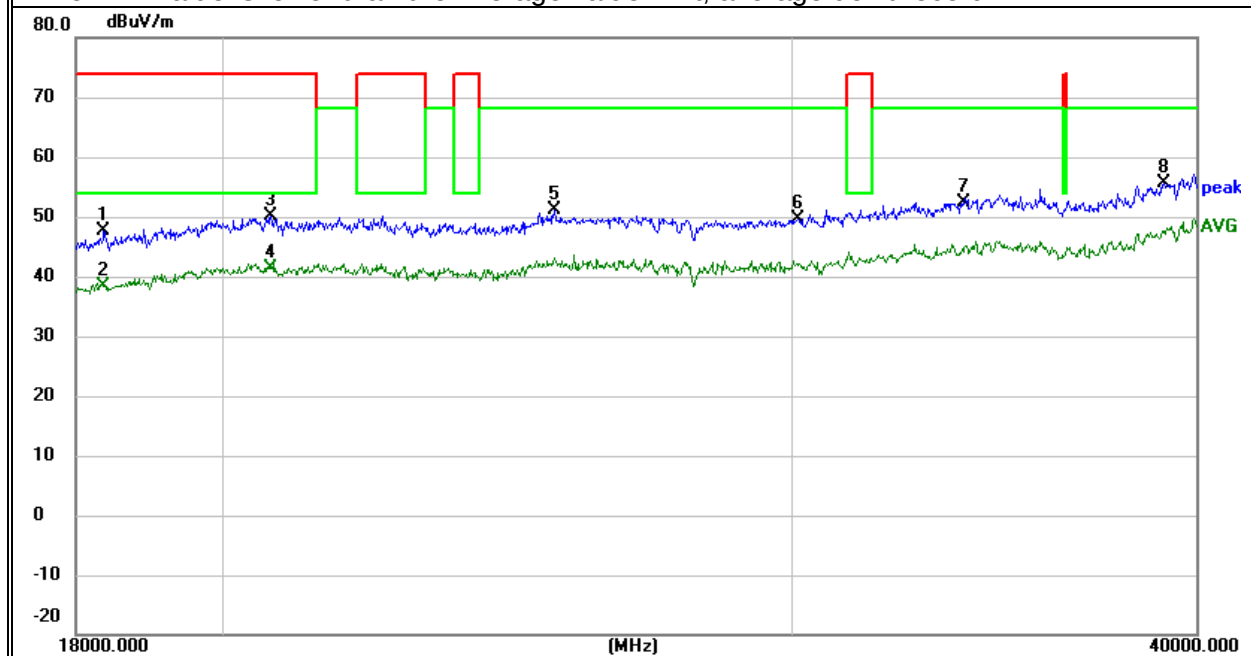
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18365.200	62.39	-14.74	47.65	74.00	-26.35	peak
V	18365.200	53.19	-14.74	38.45	54.00	-15.55	AVG
V	20684.550	62.20	-12.13	50.07	74.00	-23.93	peak
V	20684.550	53.43	-12.13	41.30	54.00	-12.70	AVG
V	25323.250	60.82	-9.64	51.18	68.20	-17.02	peak
V	30148.950	57.83	-8.09	49.74	68.20	-18.46	peak
V	33896.650	57.52	-5.05	52.47	68.20	-15.73	peak
V	39104.600	59.34	-3.76	55.58	68.20	-12.62	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



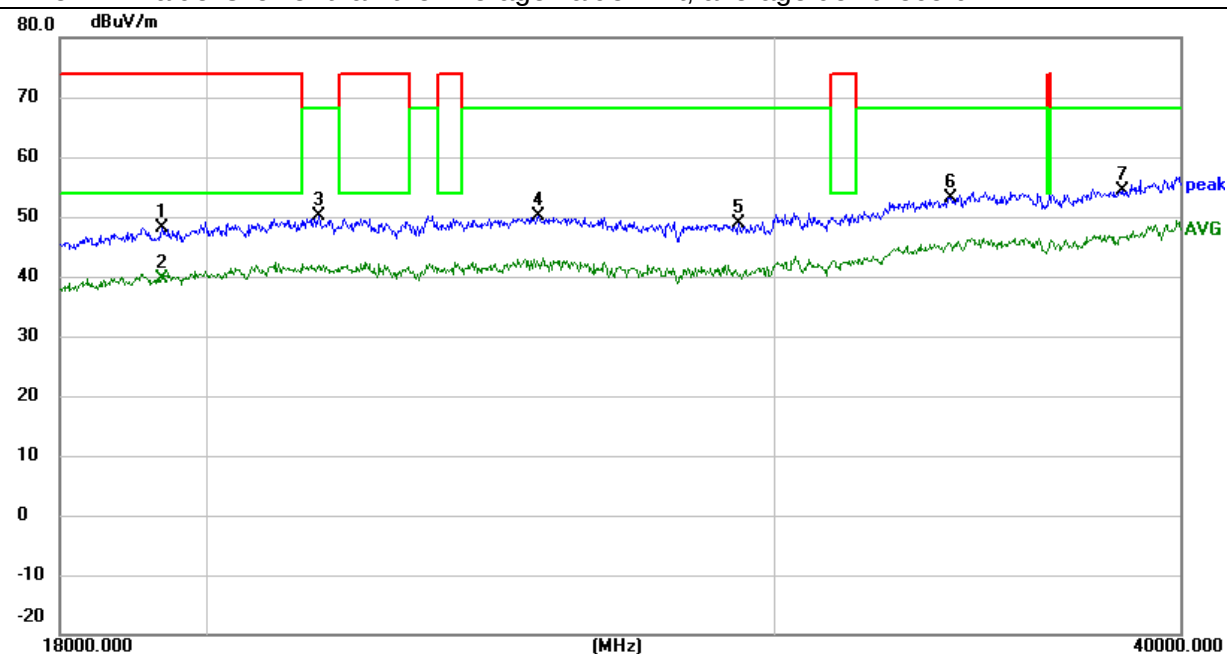
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	19360.150	61.74	-13.65	48.09	74.00	-25.91	peak
H	19360.150	53.35	-13.65	39.70	54.00	-14.30	AVG
H	21650.900	62.36	-12.26	50.10	68.20	-18.10	peak
H	25326.000	59.74	-9.64	50.10	68.20	-18.10	peak
H	29222.750	57.92	-9.11	48.81	68.20	-19.39	peak
H	33960.450	58.25	-5.00	53.25	68.20	-14.95	peak
H	38387.400	58.39	-4.08	54.31	68.20	-13.89	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



5600

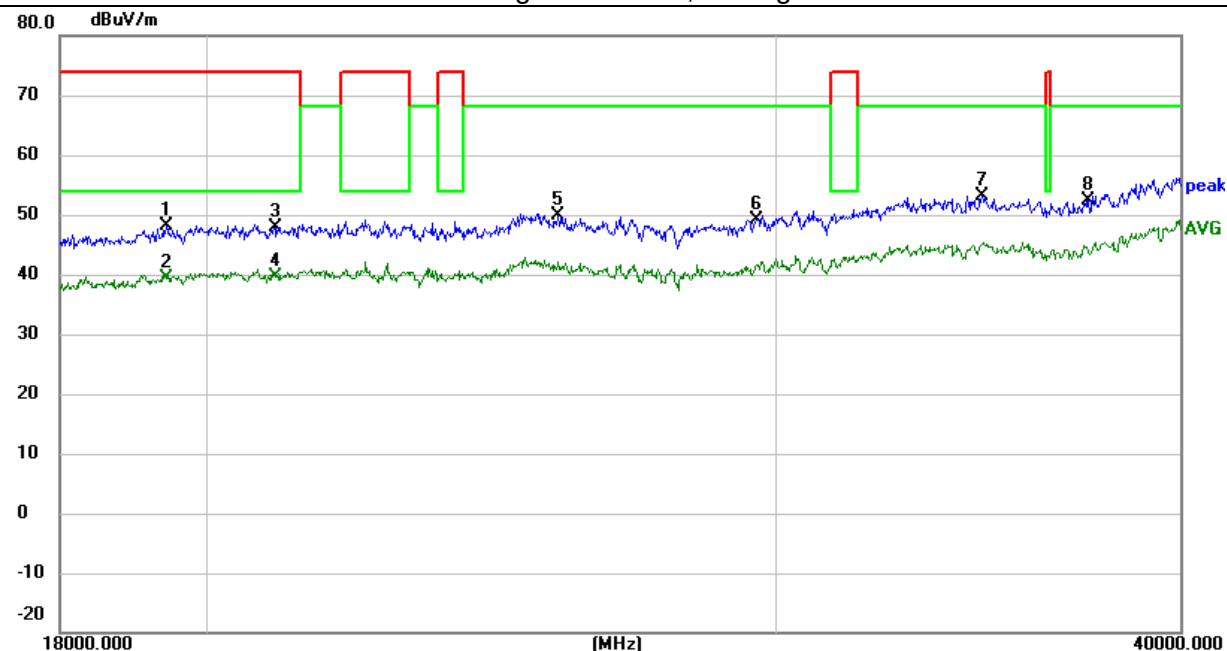
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	19423.950	61.75	-13.57	48.18	74.00	-25.82	peak
V	19423.950	52.86	-13.57	39.29	54.00	-14.71	AVG
V	20988.150	60.27	-12.29	47.98	74.00	-26.02	peak
V	20988.150	51.97	-12.29	39.68	54.00	-14.32	AVG
V	25689.000	59.63	-9.66	49.97	68.20	-18.23	peak
V	29587.400	57.52	-8.38	49.14	68.20	-19.06	peak
V	34743.100	57.34	-4.18	53.16	68.20	-15.04	peak
V	37492.000	56.33	-3.94	52.39	68.20	-15.81	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



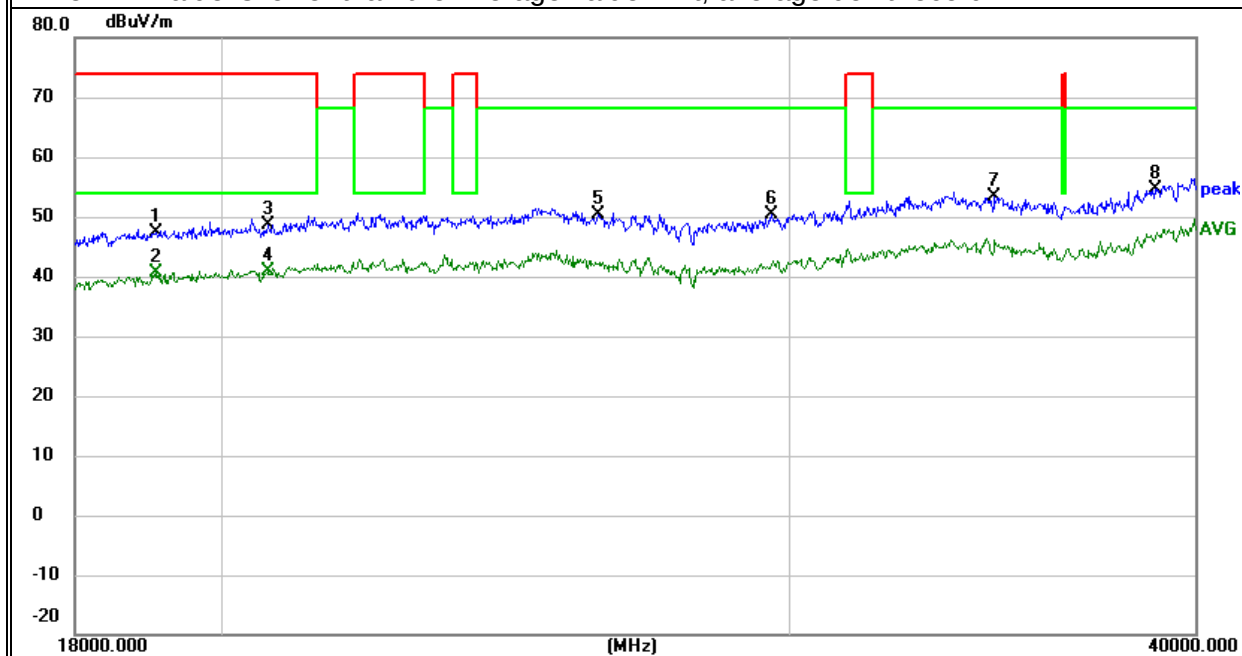
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	19088.450	61.24	-13.97	47.27	74.00	-26.73	peak
H	19088.450	54.57	-13.97	40.60	54.00	-13.40	AVG
H	20658.700	60.76	-12.13	48.63	74.00	-25.37	peak
H	20658.700	53.09	-12.13	40.96	54.00	-13.04	AVG
H	26147.700	59.73	-9.36	50.37	68.20	-17.83	peak
H	29598.400	58.68	-8.36	50.32	68.20	-17.88	peak
H	34688.650	57.57	-4.19	53.38	68.20	-14.82	peak
H	38887.350	58.38	-3.70	54.68	68.20	-13.52	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



5700

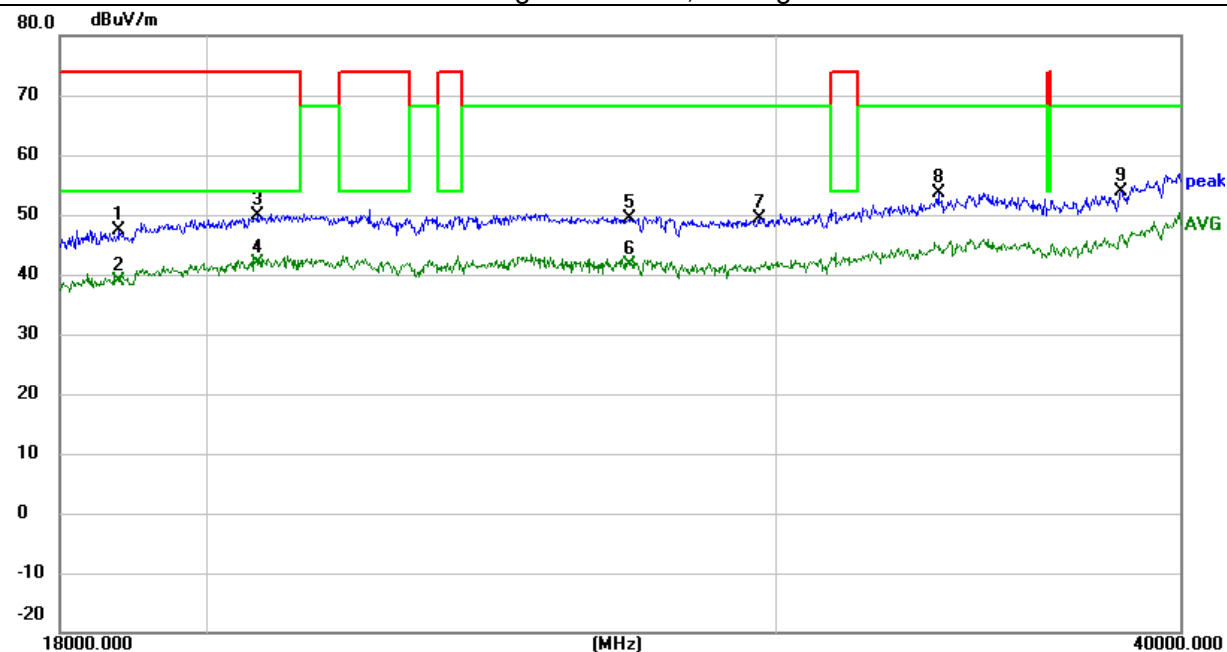
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18779.900	61.98	-14.50	47.48	74.00	-26.52	peak
V	18779.900	53.40	-14.50	38.90	54.00	-15.10	AVG
V	20748.350	62.04	-12.13	49.91	74.00	-24.09	peak
V	20748.350	53.96	-12.13	41.83	54.00	-12.17	AVG
V	27022.200	58.50	-9.00	49.50	68.20	-18.70	peak
V	27022.200	50.53	-9.00	41.53	68.20	-26.67	AVG
V	29627.550	57.72	-8.33	49.39	68.20	-18.81	peak
V	33670.050	58.84	-5.24	53.60	68.20	-14.60	peak
V	38343.400	58.02	-4.08	53.94	68.20	-14.26	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



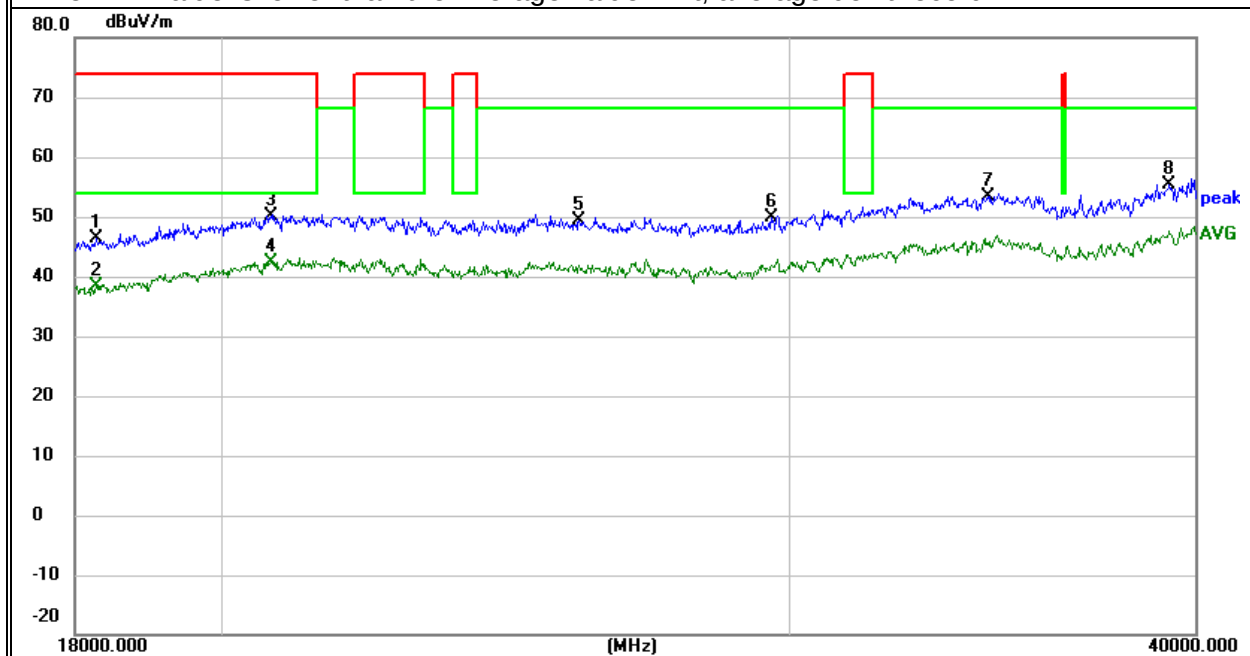
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18289.300	61.16	-14.68	46.48	74.00	-27.52	peak
H	18289.300	53.14	-14.68	38.46	54.00	-15.54	AVG
H	20705.450	62.34	-12.12	50.22	74.00	-23.78	peak
H	20705.450	54.41	-12.12	42.29	54.00	-11.71	AVG
H	25797.900	59.02	-9.58	49.44	68.20	-18.76	peak
H	29587.400	58.21	-8.38	49.83	68.20	-18.37	peak
H	34529.700	57.67	-4.20	53.47	68.20	-14.73	peak
H	39297.650	59.19	-3.88	55.31	68.20	-12.89	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



3.2.10 Radiated Spurious at Band Edges

EUT :	Projector	Model Name. :	F200
Temperature :	24.2 °C	Relative Humidity :	51.1%
Pressure :	1010 hPa	Test Voltage :	AC 120V
Test Mode :	TX (5.6G)- 802.11a/n20/n40/ac20/ac40/ax20/ax40		

All the modulation modes have been tested, and the worst-case result was 802.11a/ac/ax. Only the worst-case mode reported.

802.11a 5500

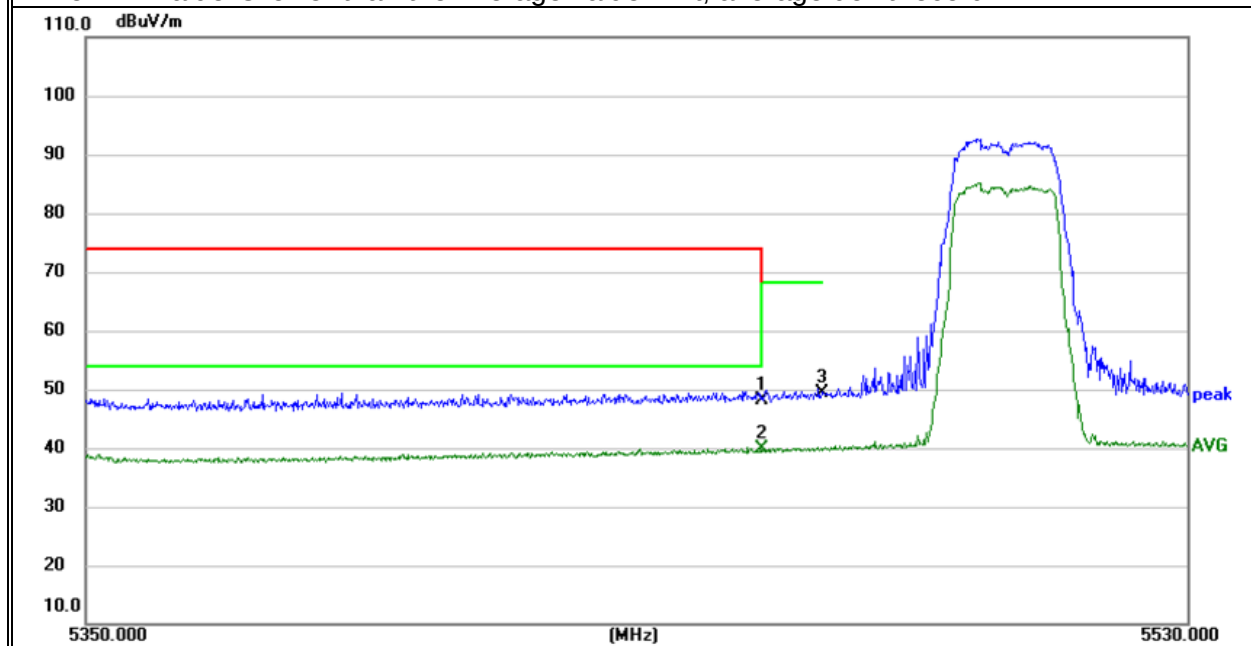
Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	5460.000	9.68	38.51	48.19	68.20	-20.01	peak
V	5460.000	1.27	38.51	39.78	54.00	-14.22	AVG
V	5470.000	10.66	38.68	49.34	68.20	-18.86	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



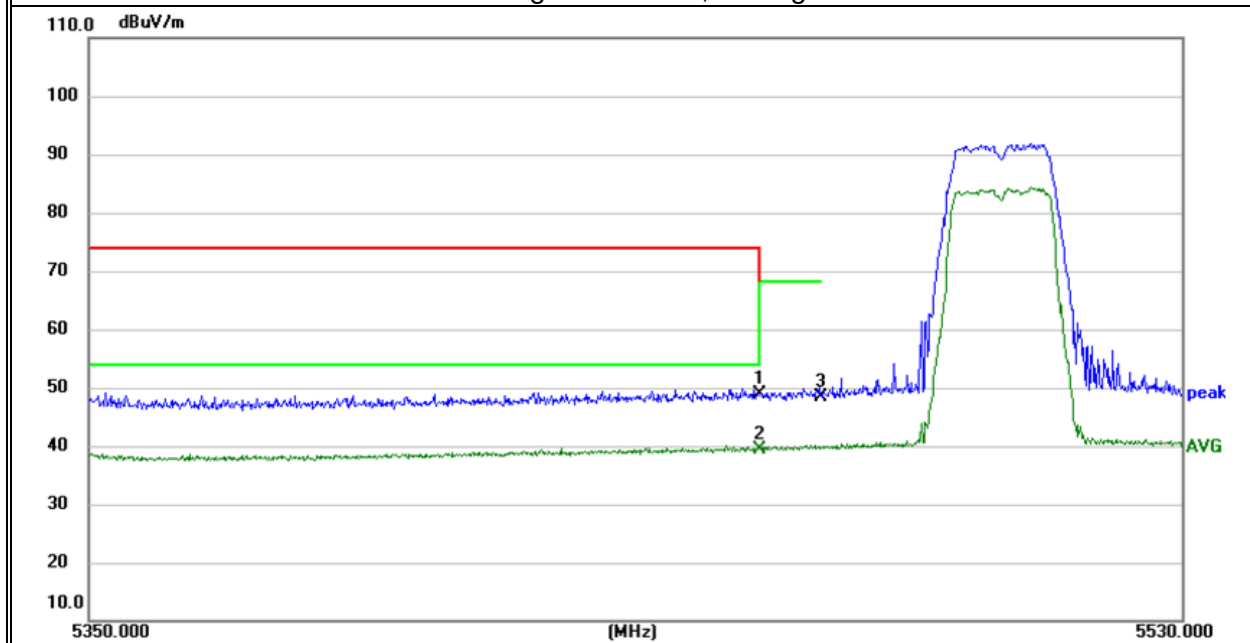
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5460.000	10.33	38.51	48.84	68.20	-19.36	peak
H	5460.000	0.98	38.51	39.49	54.00	-14.51	AVG
H	5470.000	9.79	38.68	48.47	68.20	-19.73	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11a 5700

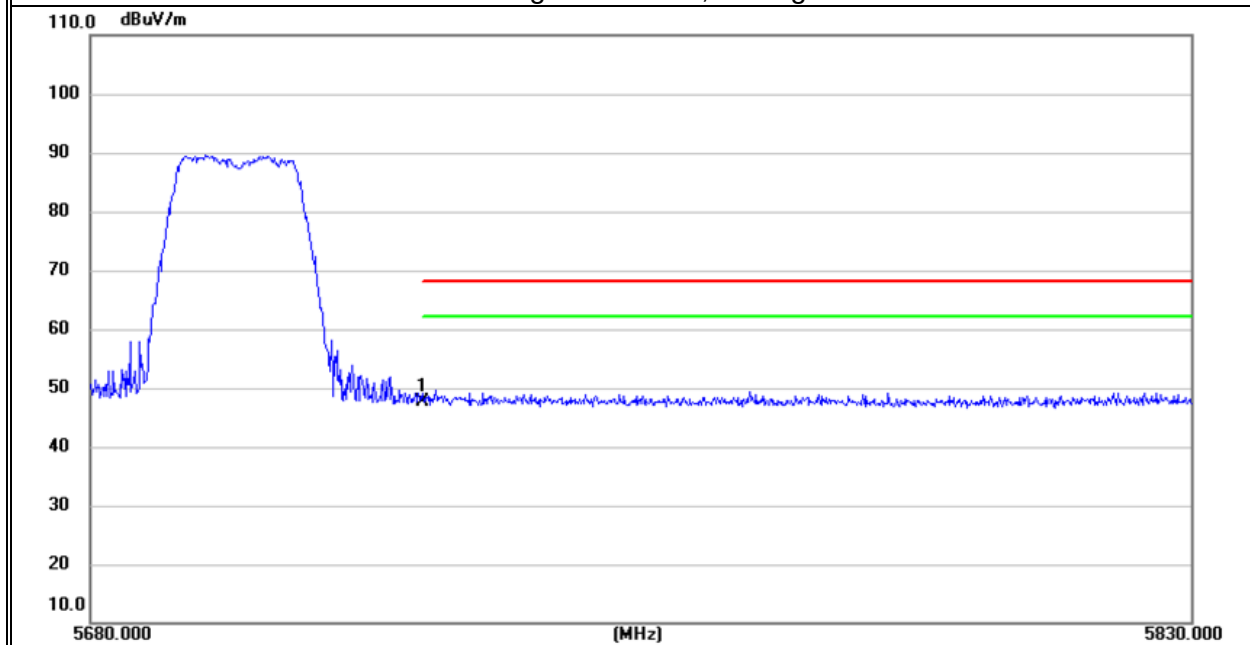
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5725.000	8.50	39.09	47.59	68.20	-20.61	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



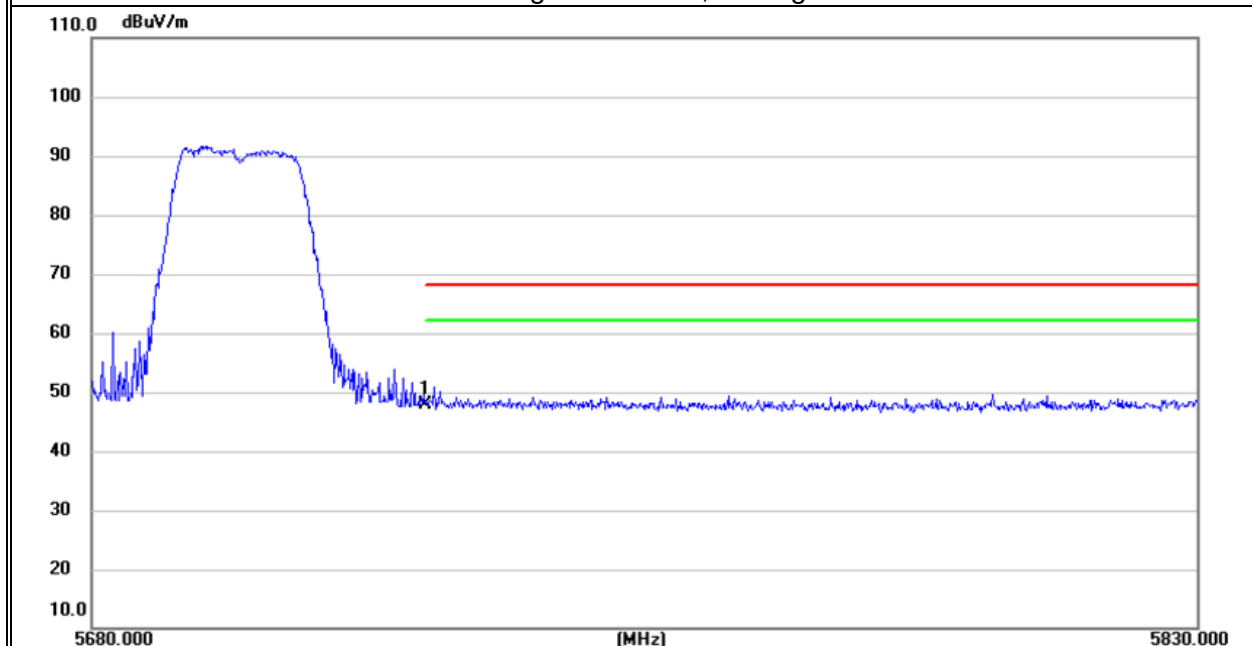
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5725.000	8.87	39.09	47.96	68.20	-20.24	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ac20 5500

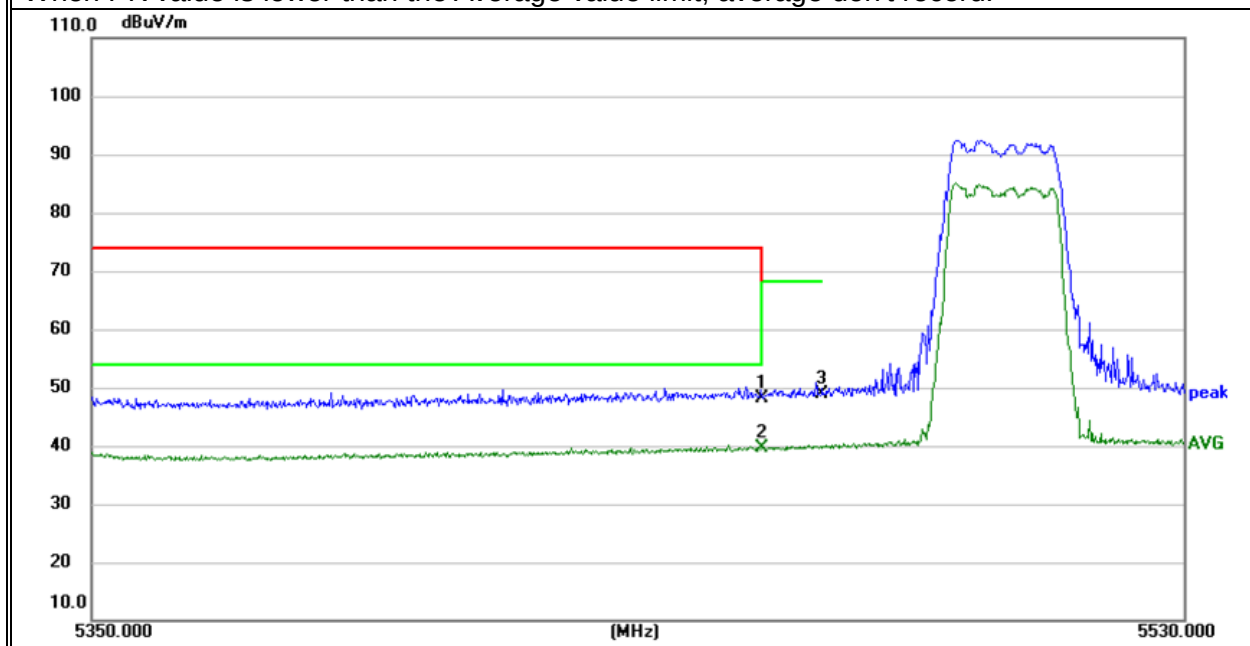
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5460.000	9.60	38.51	48.11	68.20	-20.09	peak
V	5460.000	1.13	38.51	39.64	54.00	-14.36	AVG
V	5470.000	10.15	38.68	48.83	68.20	-19.37	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



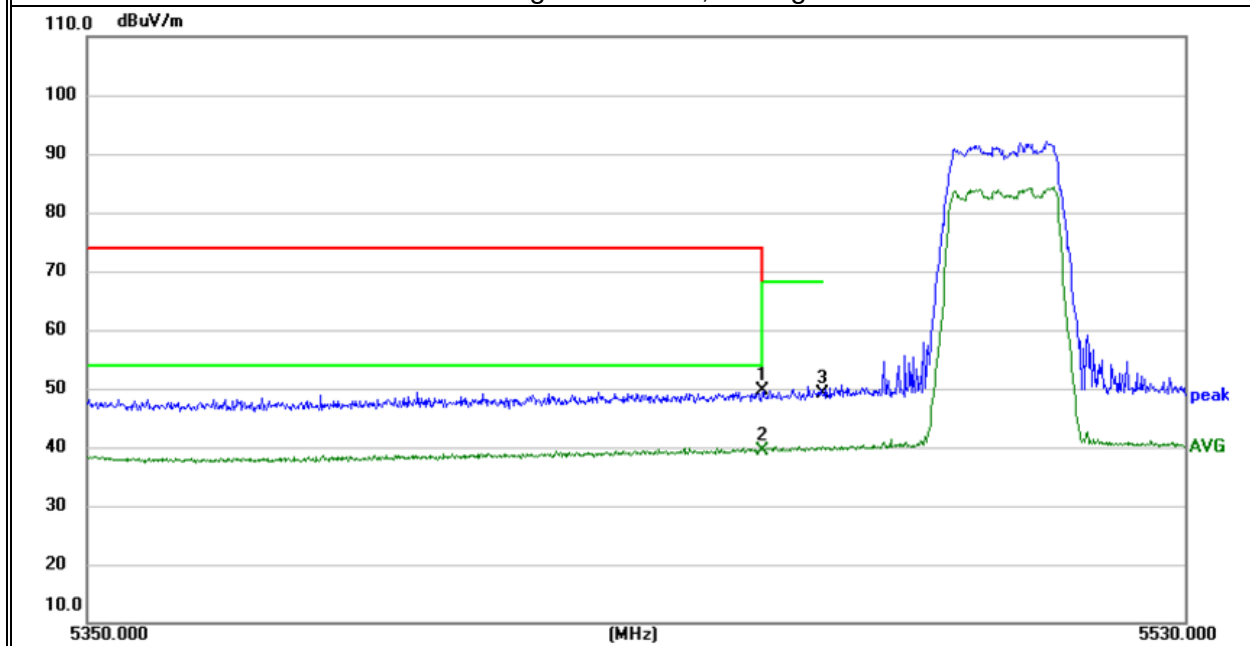
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5460.000	11.18	38.51	49.69	68.20	-18.51	peak
H	5460.000	0.92	38.51	39.43	54.00	-14.57	AVG
H	5470.000	10.40	38.68	49.08	68.20	-19.12	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ac20 5700

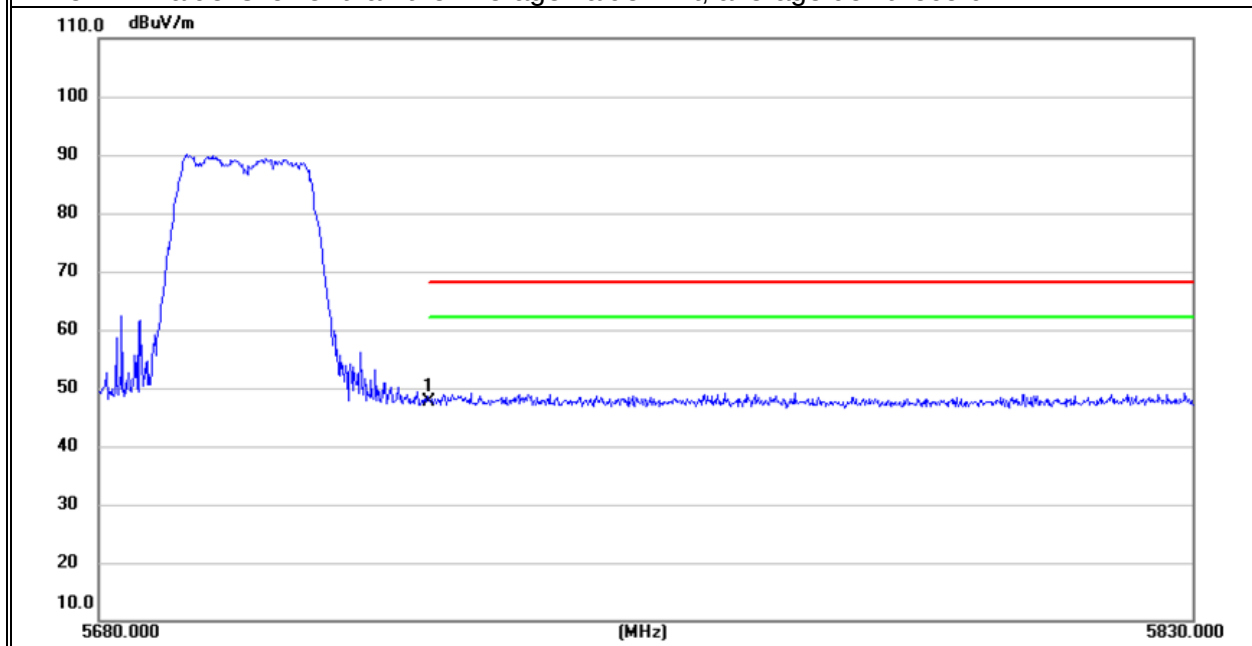
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5725.000	8.64	39.09	47.73	68.20	-20.47	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



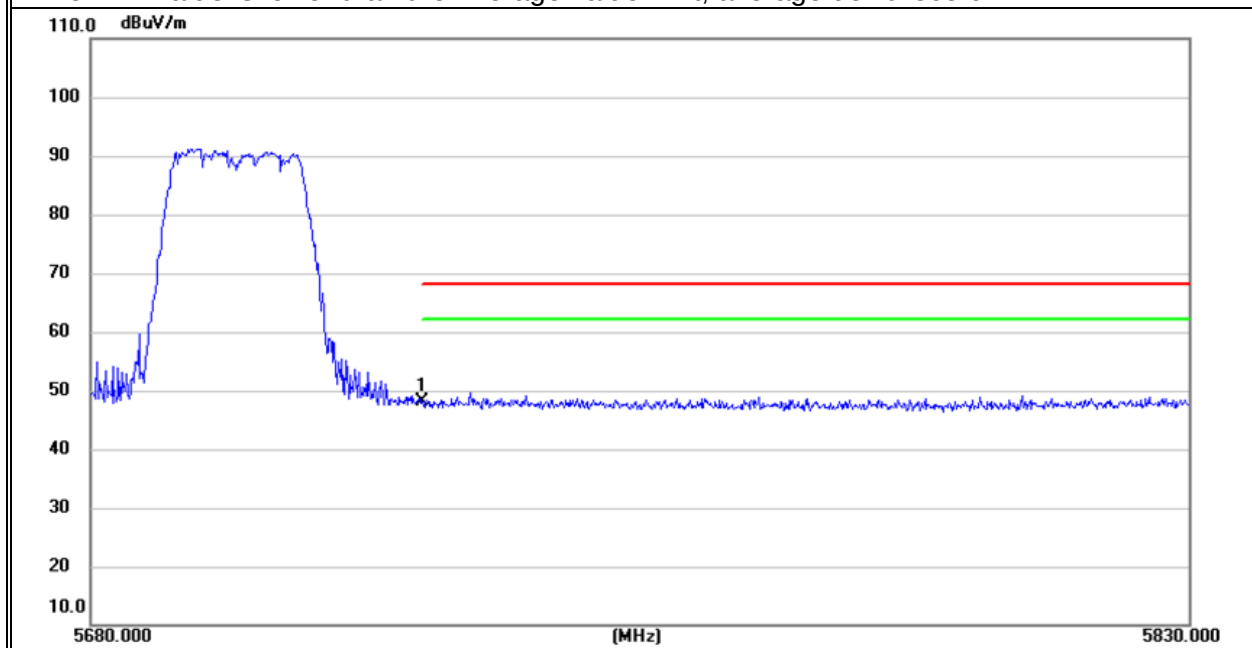
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5725.000	9.16	39.09	48.25	68.20	-19.95	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ac40 5510

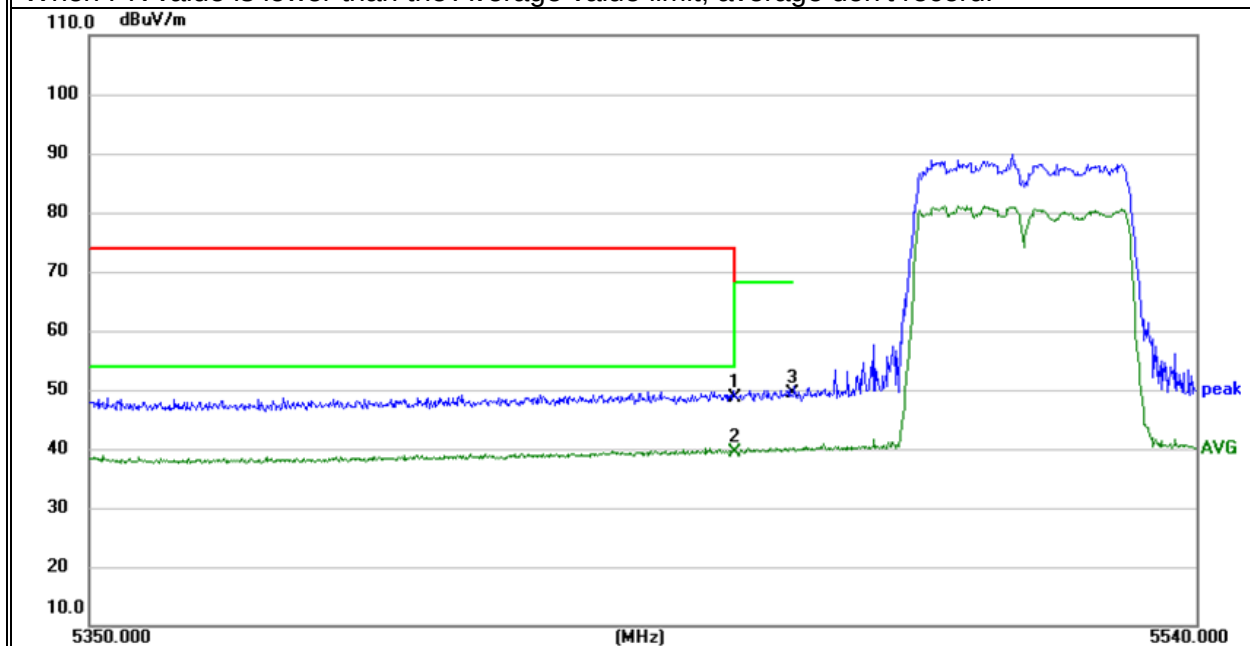
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5460.000	10.16	38.51	48.67	68.20	-19.53	peak
V	5460.000	0.88	38.51	39.39	54.00	-14.61	AVG
V	5470.000	10.59	38.68	49.27	68.20	-18.93	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



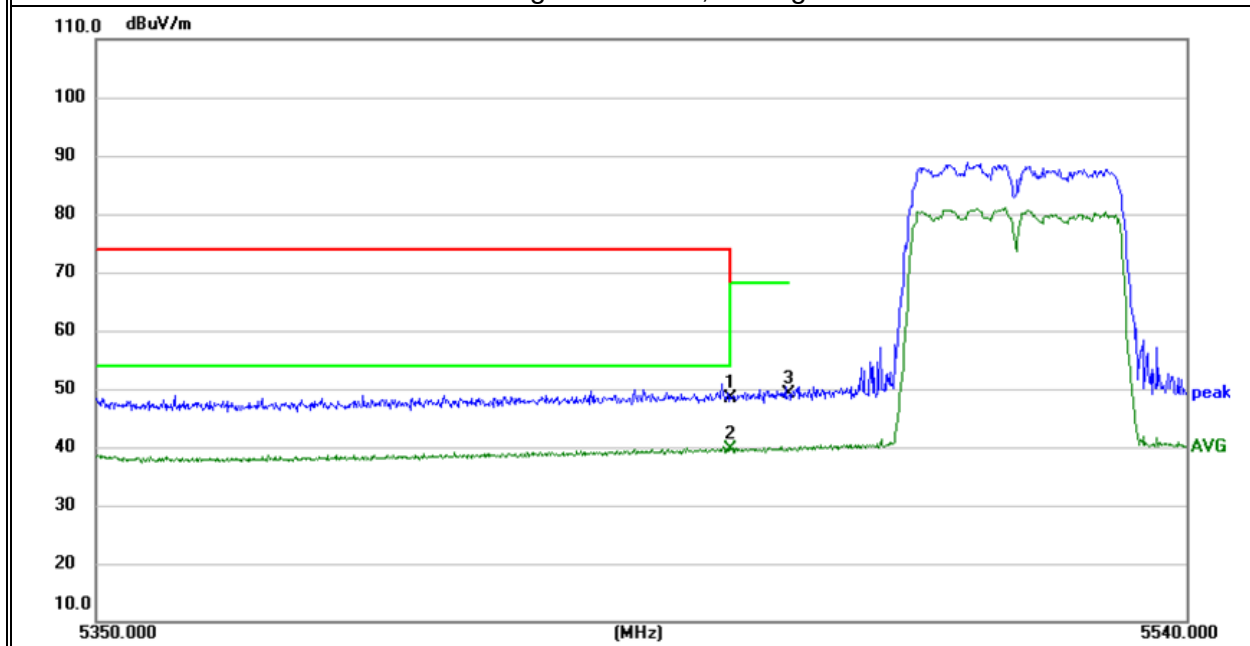
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5460.000	9.90	38.51	48.41	68.20	-19.79	peak
H	5460.000	1.02	38.51	39.53	54.00	-14.47	AVG
H	5470.000	10.48	38.68	49.16	68.20	-19.04	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ac40 5670

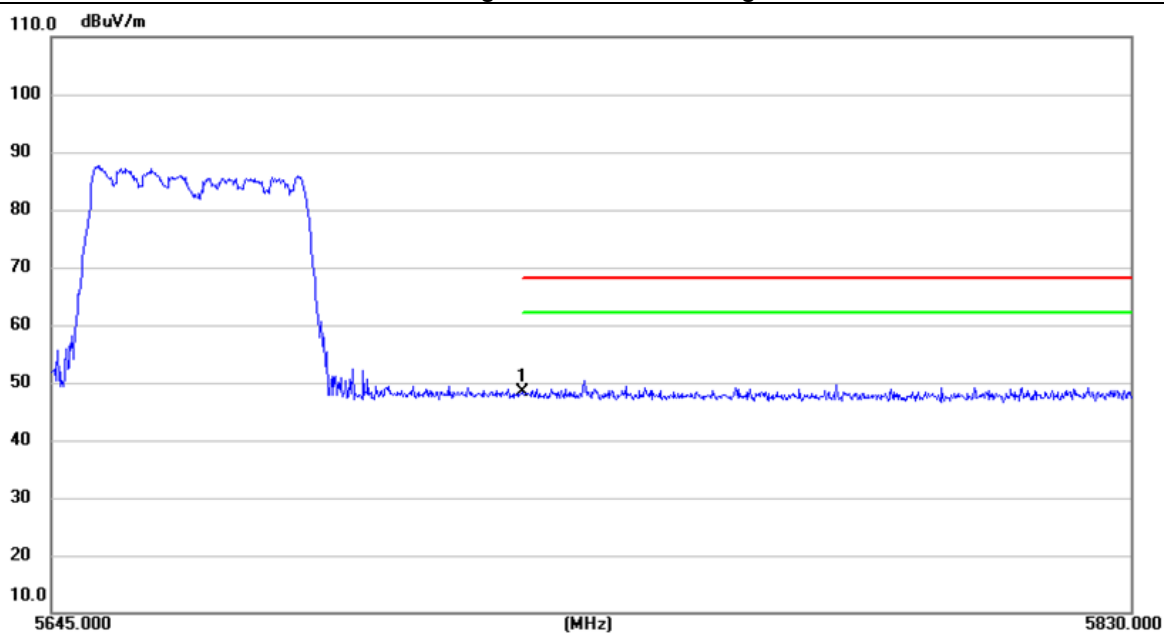
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5725.000	9.30	39.09	48.39	68.20	-19.81	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



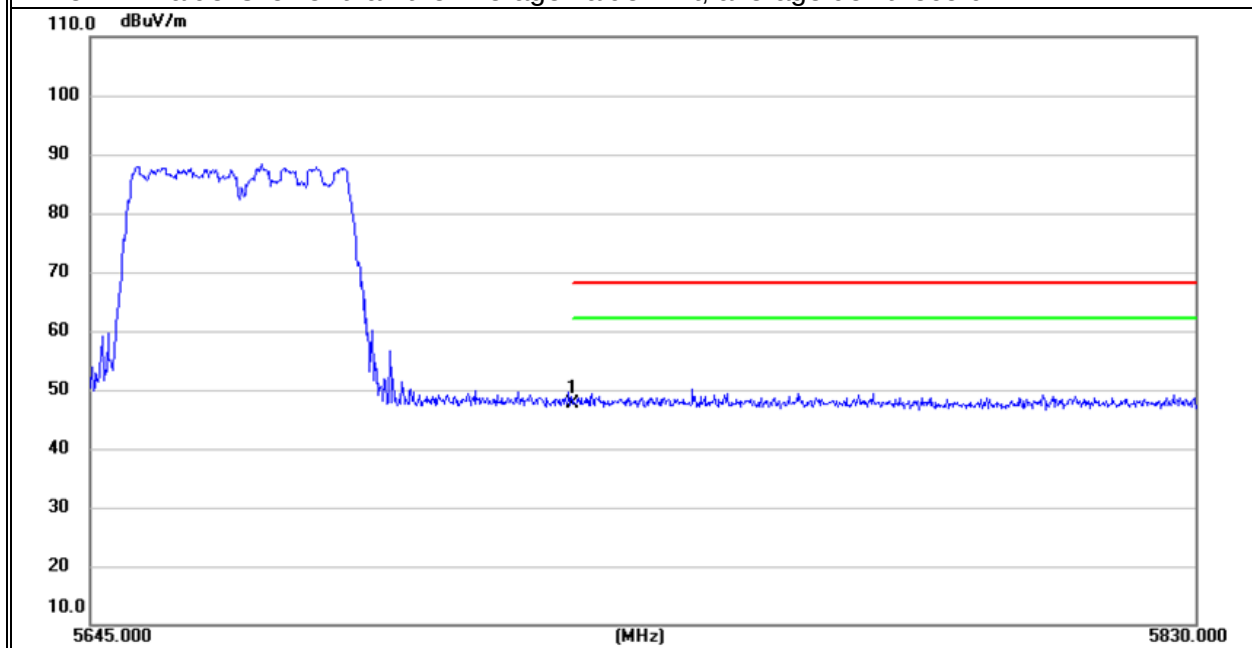
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5725.000	8.45	39.09	47.54	68.20	-20.66	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ax20 5500

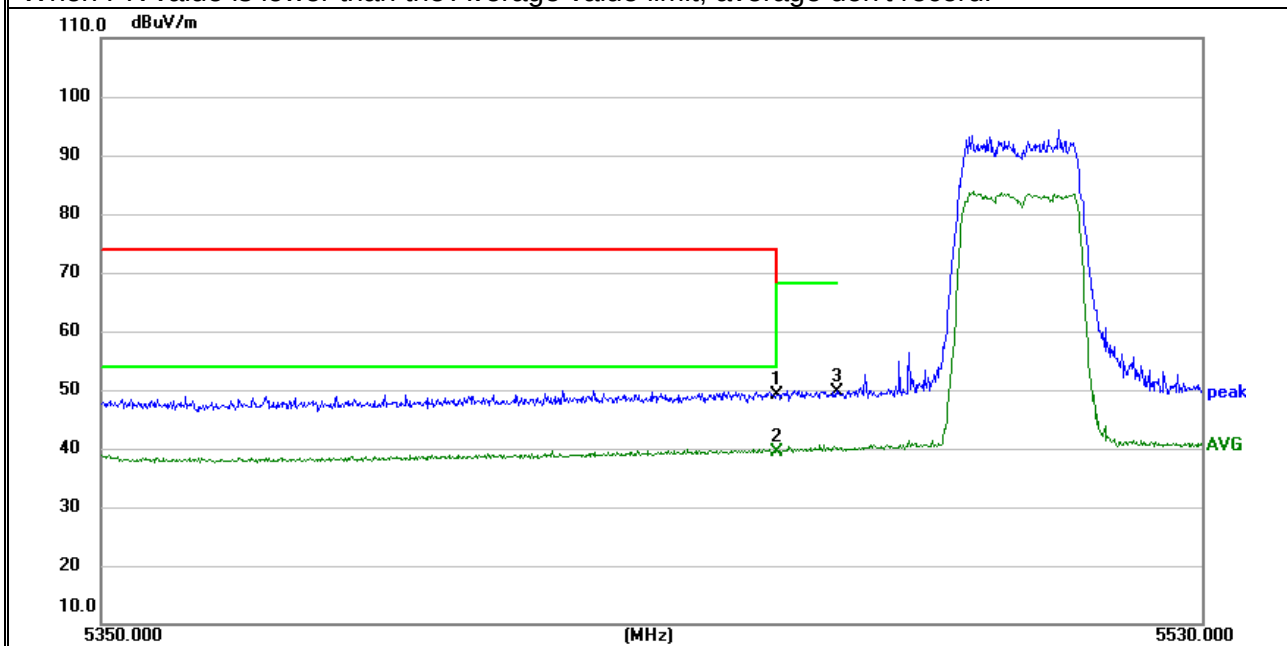
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5460.000	10.74	38.51	49.25	68.20	-18.95	peak
V	5460.000	0.98	38.51	39.49	54.00	-14.51	AVG
V	5470.000	11.00	38.68	49.68	68.20	-18.52	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



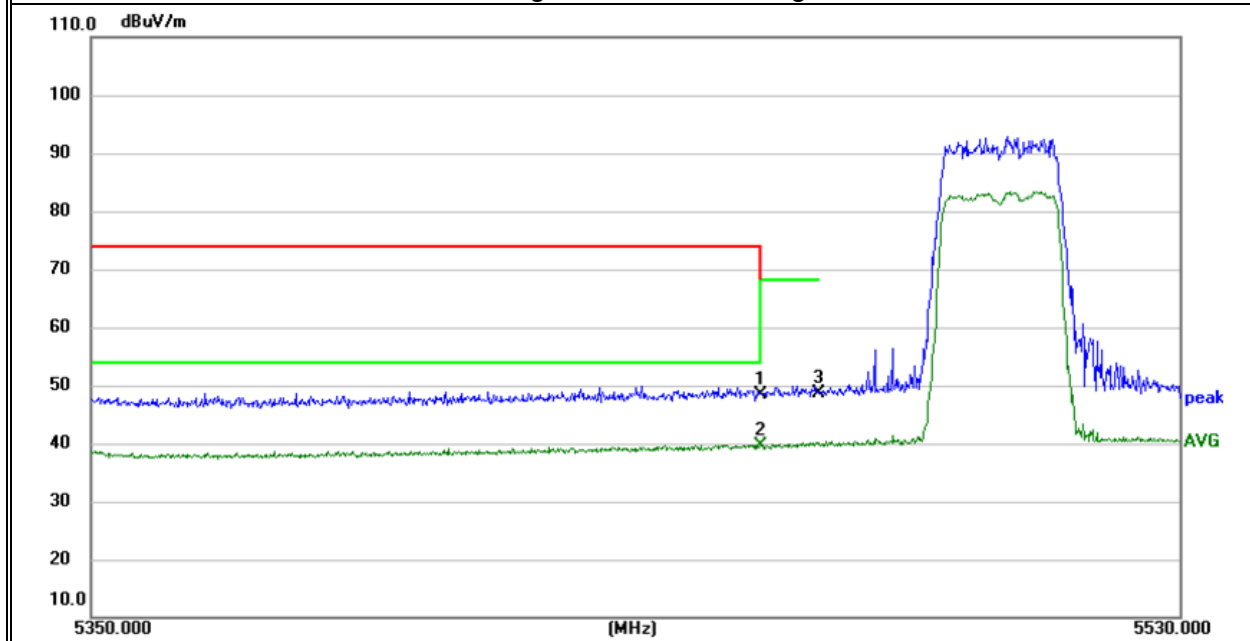
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5460.000	9.91	38.51	48.42	68.20	-19.78	peak
H	5460.000	1.00	38.51	39.51	54.00	-14.49	AVG
H	5470.000	9.85	38.68	48.53	68.20	-19.67	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ax20 5700

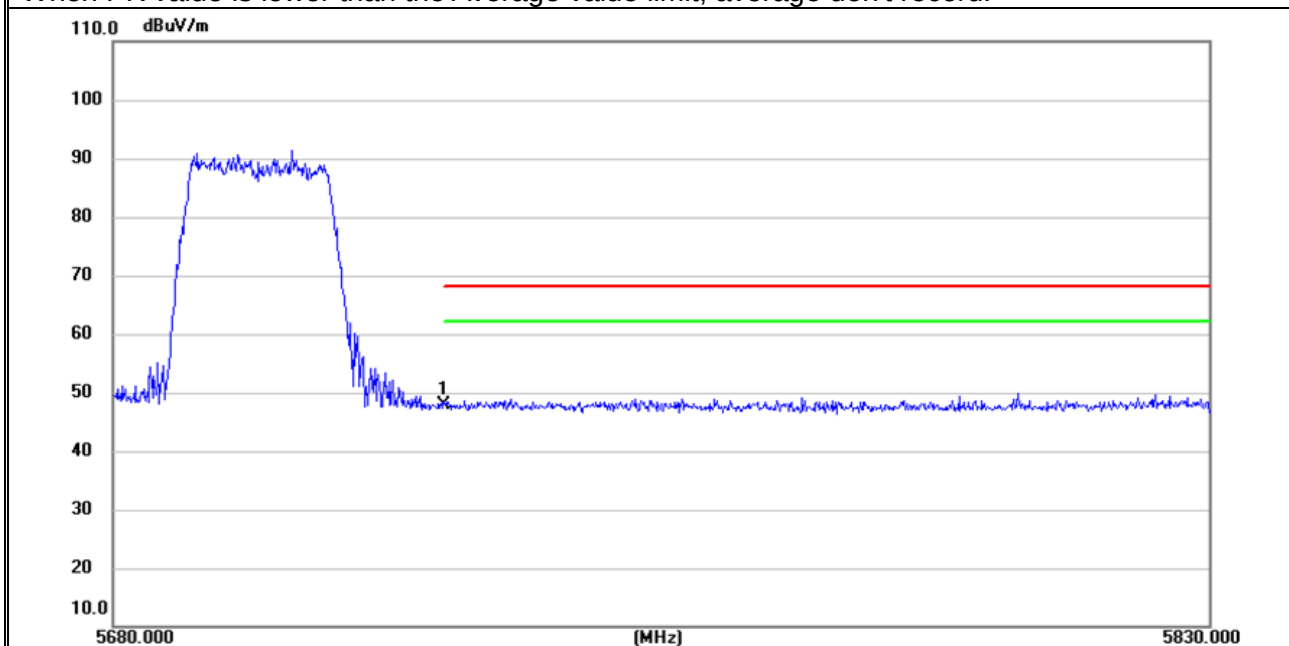
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5725.000	8.91	39.09	48.00	68.20	-20.20	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



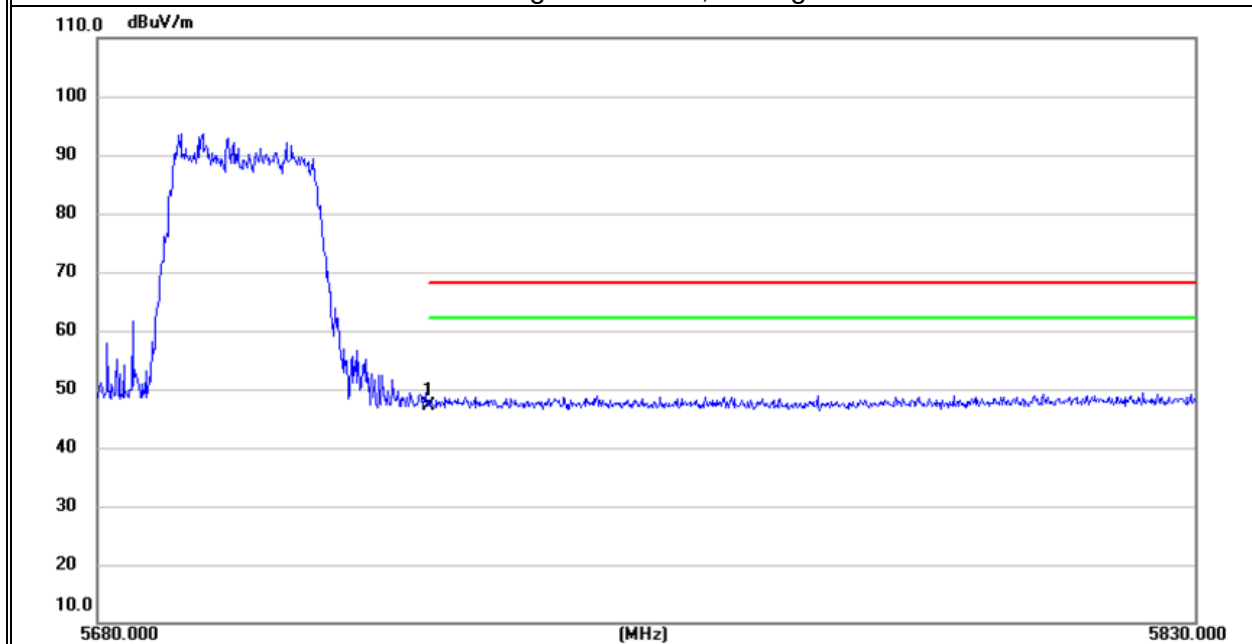
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5725.000	8.15	39.09	47.24	68.20	-20.96	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ax40 5510

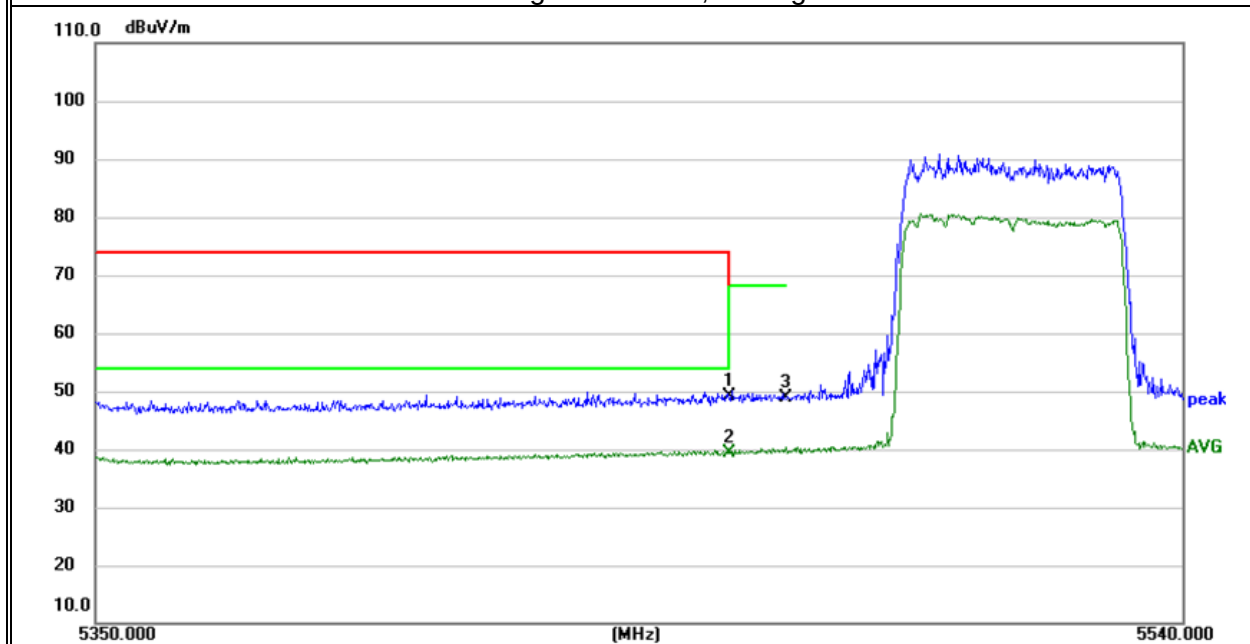
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5460.000	10.59	38.51	49.10	68.20	-19.10	peak
V	5460.000	0.91	38.51	39.42	54.00	-14.58	AVG
V	5470.000	10.22	38.68	48.90	68.20	-19.30	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



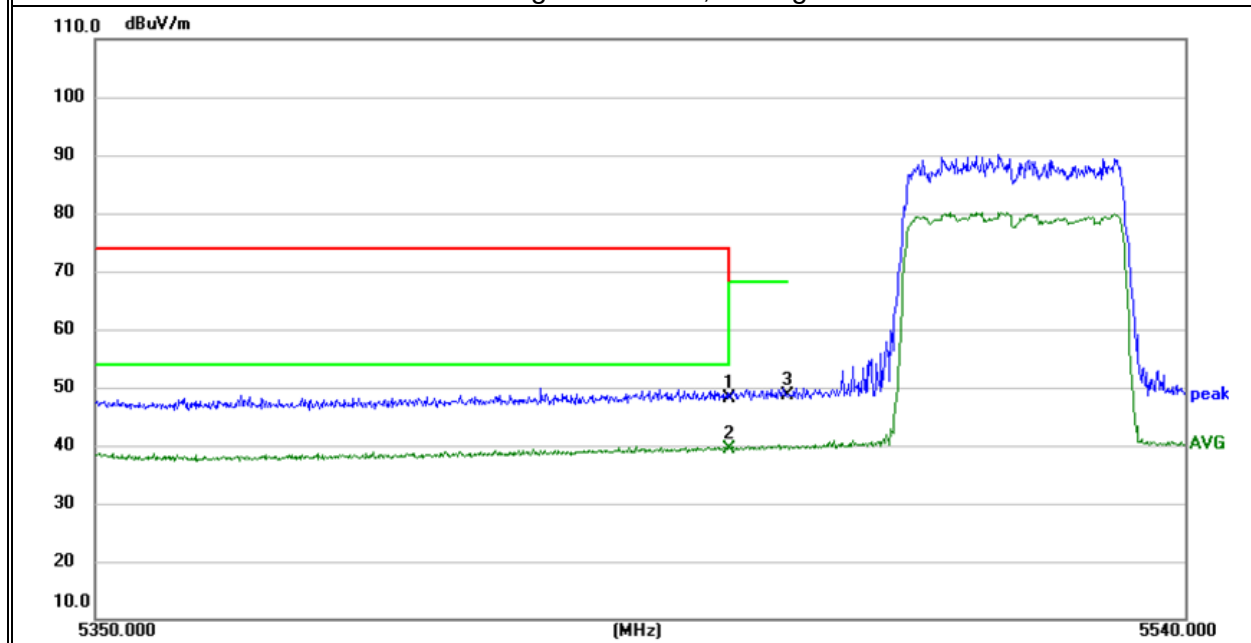
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5460.000	9.72	38.51	48.23	68.20	-19.97	peak
H	5460.000	0.94	38.51	39.45	54.00	-14.55	AVG
H	5470.000	9.84	38.68	48.52	68.20	-19.68	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



802.11ax40 5670

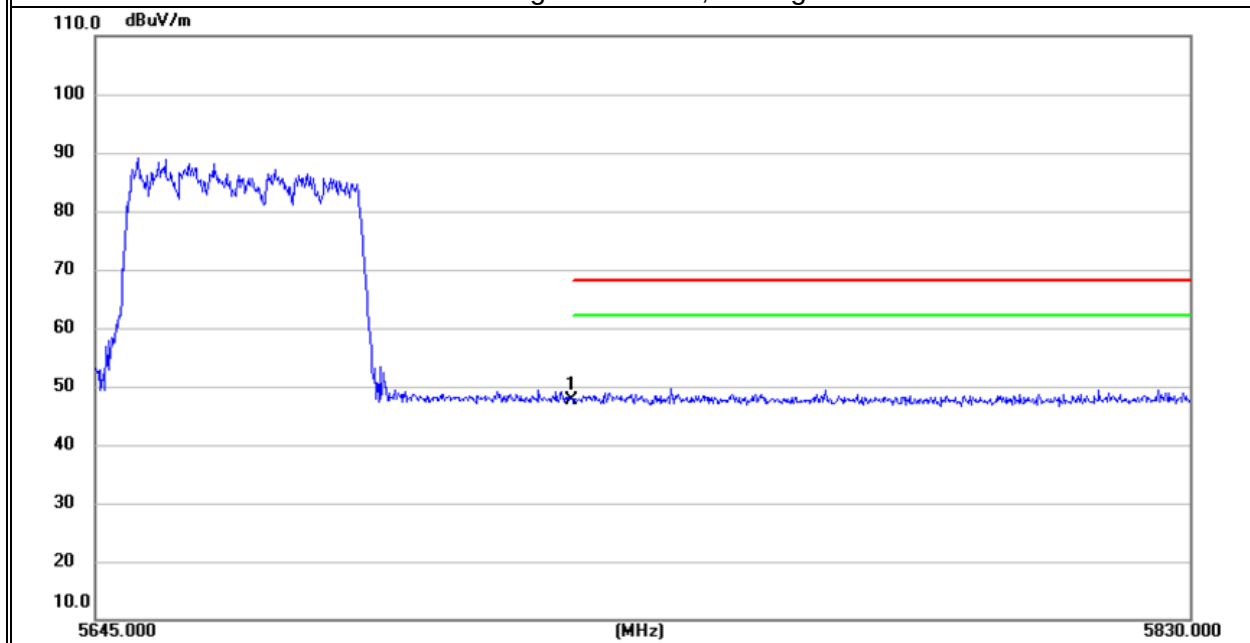
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5725.000	8.62	39.09	47.71	68.20	-20.49	peak

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



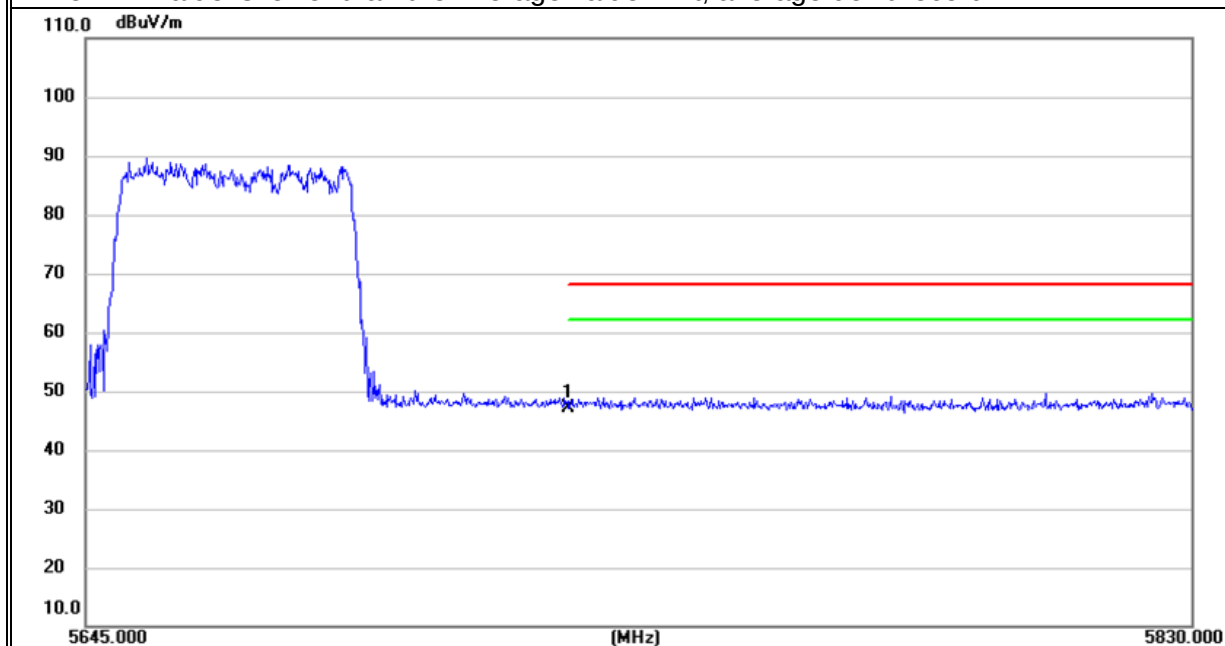
Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5725.000	8.02	39.09	47.11	68.20	-21.09	peak

Remark:

Emission Level = Meter Reading + Factor, Margin = Emission Level - Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.

When PK value is lower than the Average value limit, average don't record.



3.3 POWER SPECTRAL DENSITY TEST

3.3.1 Applied procedures / limit

According to FCC §15.407(a)(3)

For the band 5.15-5.25 GHz,

(i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(iv) For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

For the band 5.725-5.85 GHz

(3) For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

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3.3.2 TEST PROCEDURE

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

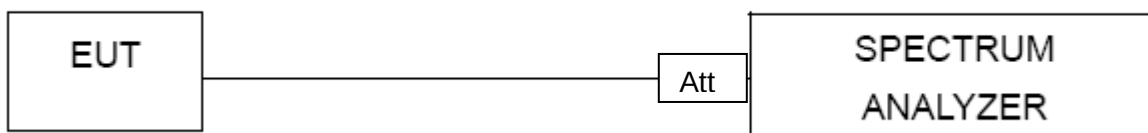
- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add $10\log(1\text{MHz}/RBW)$ to the measured result, whereas $RBW (< 1 \text{ MHz})$ is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections 5.c) and 5.d) above, since $RBW=100 \text{ KHz}$ is available on nearly all spectrum analyzers.

3.3.3 DEVIATION FROM STANDARD

No deviation.

3.3.4 TEST SETUP



3.3.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.1 Unless otherwise a special operating condition is specified in the follows during the testing.

3.3.6 TEST RESULTS

EUT :	Projector	Model Name. :	F200
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1015 hPa	Test Voltage :	AC 120V
Test Mode :	TX Frequency Band 2C (5470-5725MHz)		

Test data reference attachment.

3.4 26DB & 99% EMISSION BANDWIDTH

3.4.1 Applied procedures / limit

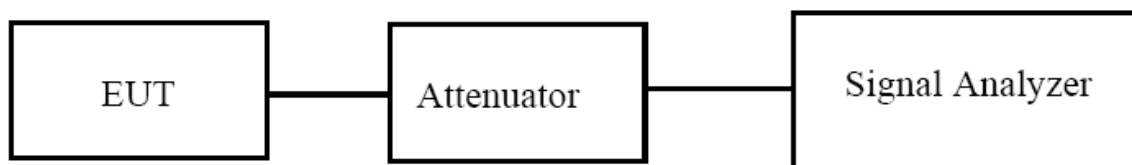
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band are made over a reference bandwidth of 500 kHz or the 26 dB emission bandwidth of the device, whichever is less. Measurements in the 5.15-5.25 GHz, 5.25-5.35 GHz, and the 5.47-5.725 GHz bands are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less. A narrower resolution bandwidth can be used, provided that the measured power is integrated over the full reference bandwidth.

3.4.2 TEST PROCEDURE

- Set RBW= shall be in the range of 1% to 5% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is in the range of 1% to 5%.

The following procedure shall be used for measuring (99 %) power bandwidth:

- Set center frequency to the nominal EUT channel center frequency.
- Set span = 1.5 times to 5.0 times the OBW.
- Set RBW = 1 % to 5 % of the OBW
- Set VBW $\geq 3 \cdot$ RBW
- Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- Use the 99 % power bandwidth function of the instrument (if available).
- If the instrument does not have a 99 % power bandwidth function, the trace data points are recovered and directly summed in power units. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5 % of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5 % of the total is reached; that frequency is recorded as the upper frequency. The 99% occupied bandwidth is the difference between these two frequencies.



3.4.3 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.4.4 TEST RESULTS

EUT :	Projector	Model Name. :	F200
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX Frequency Band 2C (5470-5725MHz)		

Test data reference attachment.

3.5 MINIMUM 6 DB BANDWIDTH

3.5.1 Applied procedures / limit

According to FCC §15.407(e)

(e) Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.5.2 TEST PROCEDURE

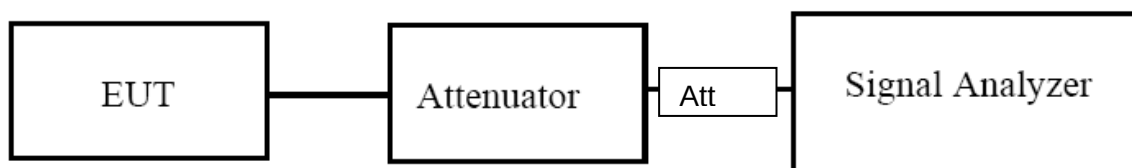
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

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

3.5.3 DEVIATION FROM STANDARD

No deviation.

3.5.4 TEST SETUP



3.5.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.5.6 TEST RESULTS

EUT :	Projector	Model Name. :	F200
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	N/A
Test Mode :	N/A		

Note: Not Applicable.

3.6 MAXIMUM CONDUCTED OUTPUT POWER

3.6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5250~5350	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5470~5725	250 mW or 11 dBm + 10 log B Note: The limit is the smaller of the two, "B" represents -26dB bandwidth.
5725~5850	1W

3.6.2 TEST PROCEDURE

- Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.¹ However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

- The EUT transmits continuously (or with a duty cycle ≥ 98 percent).
- Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.

(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep ≥ 2 Span / RBW. (This ensures that bin-to-bin spacing is $\leq$ RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

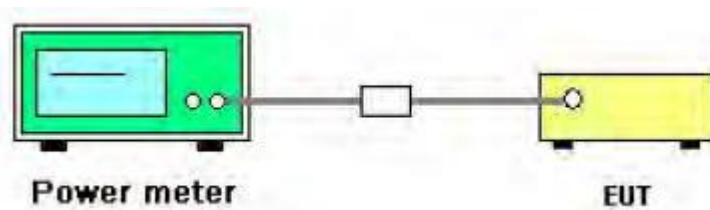
(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

3.6.3 DEVIATION FROM STANDARD

No deviation.

3.6.4 TEST SETUP



3.6.5 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.4 Unless otherwise a special operating condition is specified in the follows during the testing.

3.6.6 TEST RESULTS

EUT :	Projector	Model Name. :	F200
Temperature :	25 °C	Relative Humidity :	60%
Pressure :	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX (5G) Mode Frequency Band 2C (5470-5725MHz)		

Test data reference attachment.

3.7 FREQUENCY STABILITY MEASUREMENT

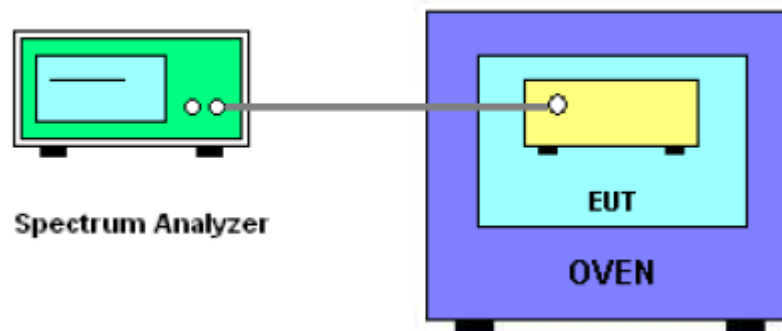
3.7.1 LIMIT

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

3.7.2 TEST PROCEDURES

1. The transmitter output (antenna port) was connected to the spectrum analyzer.
2. EUT have transmitted absence of modulation signal and fixed channelize.
3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.
4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.
5. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6 \text{ ppm}$.
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 70^\circ\text{C}$.

3.7.3 TEST SETUP LAYOUT



3.7.4 EUT OPERATION DURING TEST

The EUT was programmed to be in continuously un-modulation transmitting mode.

3.7.5 TEST RESULTS

EUT :	Projector	Model Name. :	F200
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	AC 120V
Test Mode :	TX Frequency Band 2C (5470-5725MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5500.0070	5500	0.00705	1.2816
		V max (V)	132	5500.0064	5500	0.00642	1.1675
		V min (V)	108	5500.0035	5500	0.00353	0.6425
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5500MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5500.0029	5500	0.00290	0.5279
		T (°C)	-10	5500.0051	5500	0.00515	0.9360
		T (°C)	0	5500.0088	5500	0.00883	1.6056
		T (°C)	10	5500.0000	5500	0.00002	0.0039
		T (°C)	20	5500.0062	5500	0.00623	1.1322
		T (°C)	30	5500.0033	5500	0.00328	0.5967
		T (°C)	40	5500.0065	5500	0.00647	1.1772
		T (°C)	50	5500.0048	5500	0.00479	0.8715
		T (°C)	60	5500.0072	5500	0.00723	1.3149
		T (°C)	70	5500.0045	5500	0.00448	0.8140
Limits				Within 5470-5725MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5600MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5600.0054	5600	0.00541	0.9653
		V max (V)	132	5600.0008	5600	0.00076	0.1349
		V min (V)	108	5600.0032	5600	0.00315	0.5632
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5600MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5600.0014	5600	0.00142	0.2543
		T (°C)	-10	5600.0094	5600	0.00940	1.6780
		T (°C)	0	5600.0012	5600	0.00121	0.2164
		T (°C)	10	5600.0094	5600	0.00940	1.6781
		T (°C)	20	5600.0011	5600	0.00108	0.1921
		T (°C)	30	5600.0027	5600	0.00267	0.4773
		T (°C)	40	5600.0057	5600	0.00567	1.0128
		T (°C)	50	5600.0092	5600	0.00924	1.6508
		T (°C)	60	5600.0070	5600	0.00702	1.2534
		T (°C)	70	5600.0055	5600	0.00550	0.9823
Limits				Within 5470-5725MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	120	5700.0094	5700	0.00941	1.6510
		V max (V)	132	5700.0099	5700	0.00989	1.7343
		V min (V)	108	5700.0058	5700	0.00579	1.0162
Limits				Within 5470-5725MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5700MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	120	T (°C)	-20	5700.0087	5700	0.00872	1.5293
		T (°C)	-10	5700.0050	5700	0.00499	0.8752
		T (°C)	0	5700.0039	5700	0.00388	0.6801
		T (°C)	10	5700.0062	5700	0.00615	1.0797
		T (°C)	20	5700.0010	5700	0.00098	0.1727
		T (°C)	30	5700.0034	5700	0.00337	0.5910
		T (°C)	40	5700.0090	5700	0.00902	1.5816
		T (°C)	50	5700.0049	5700	0.00487	0.8552
		T (°C)	60	5700.0040	5700	0.00397	0.6969
		T (°C)	70	5700.0064	5700	0.00641	1.1252
Limits				Within 5470-5725MHz			
Result				Complies			

4. DYNAMIC FREQUENCY SELECTION(DFS)

4.1 APPLICABILITY OF DFS REQUIREMENTS

EUT is client and operates as client without radar detection function.

Table 1: Applicability of DFS Requirements Prior to Use of a Channel

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
Non-Occupancy Period	Yes	Not required	Yes
DFS Detection Threshold	Yes	Not required	Yes
Channel Availability Check Time	Yes	Not required	Not required
U-NII Detection Bandwidth	Yes	Not required	Yes

Table 2: Applicability of DFS requirements during normal operation

Requirement	Operational Mode		
	Master	Client Without Radar Detection	Client With Radar Detection
DFS Detection Threshold	Yes	Not required	Yes
Channel Closing Transmission Time	Yes	Yes	Yes
Channel Move Time	Yes	Yes	Yes
U-NII Detection Bandwidth	Yes	Not required	Yes
Client Beacon Test	N/A	Yes	Yes

Additional requirements for devices with multiple bandwidth modes	Operational Mode	
	Master or Client With Radar Detection	Client Without Radar Detection
U-NII Detection Bandwidth and Statistical Performance Check	All BW modes must be tested	Not required
Channel Move Time and Channel Closing Transmission Time	Test using widest BW mode available	Test using the widest BW mode available for the link
All other tests	Any single BW mode	Not required
Note Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.		

4.2 INTERFERENCE THRESHOLD VALUES, MASTER OR CLIENT INCORPORATING IN-SERVICE MONITORING

Maximum Transmit Power	Value (see notes 1, 2, and 3)
EIRP $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain.	

4.3 DFS RESPONSE REQUIREMENT VALUES

Parameter	Value
Non-occupancy period	Minimum 30 minutes
Channel Availability Check Time	60 seconds
Channel Move Time	10 seconds See Note 1.
Channel Closing Transmission Time	200 milliseconds + an aggregate of 60 milliseconds over remaining 10 second period. See Notes 1 and 2.
U-NII Detection Bandwidth	Minimum 100% of the 99% power bandwidth See Note 3.

Note 1: The instant that the Channel Move Time and the Channel Closing Transmission Time begins is as follows:

- For the Short pulse radar Test Signals this instant is the end of the Burst.
- For the Frequency Hopping radar Test Signal, this instant is the end of the last radar Burst generated.
- For the Long Pulse radar Test Signal this instant is the end of the 12 second period defining the radar transmission.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate Channel changes (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 is used and for each frequency step the minimum percentage of detection is 90%. Measurements are performed with no data traffic.

4.4 SHORT PULSE RADAR TEST WAVEFORMS

As the EUT is a Client Device with no Radar Detection, only one type radar pulse is required for the testing. Radar Pulse type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time.

Radar Type	Pulse Width (μsec)	PRI (μsec)	Number of Pulses	Minimum Percentage of Successful Detection	Minimum Trials
0	1	1428	18	60%	30
1	1	Test A Test B	$\text{Roundup}\left(\frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\text{min}}}\right)$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 μsec, with a minimum increment of 1 μsec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the short pulse radar types 2 through 4. For short pulse radar type 1, the same waveform is used a minimum of 30 times. If more than 30 waveforms are used for short pulse radar types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

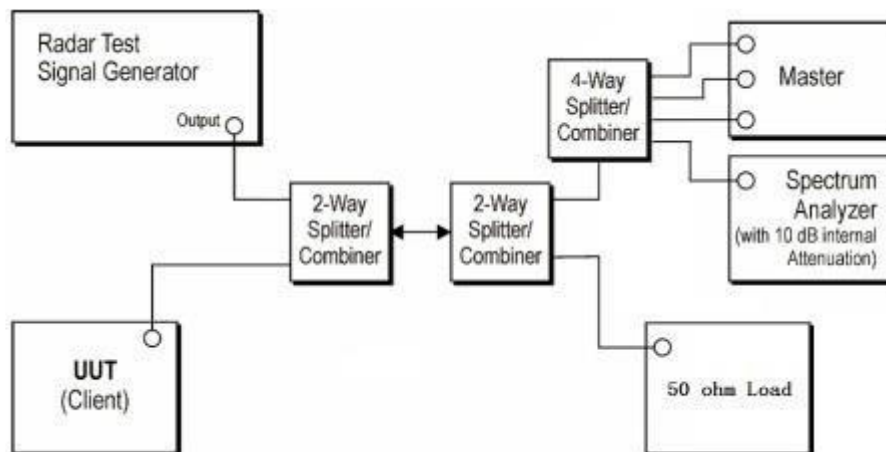
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. The aggregate is the average of the percentage of successful detections of short pulse radar types 1-4.

4.5 CALIBRATION SETUP AND DFS TEST RESULTS

Radar Waveform Calibration Procedure

- 1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master
- 2) The interference Radar Detection Threshold Level is $-62\text{dBm} - 2\text{dBi} + 1\text{dB} = -63\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} - 2\text{dBi} + 1\text{dB} = -63\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

4.6 CONDUCTED CALIBRATION SETUP



Wireless AP	Manufacturer	ASUSTek Computer Inc
	Model NO.	AX5400
	FCC ID	MSQ-RTAXJ300

Note:1. The Slave device associated with the EUT during these tests does not have radar detection capability.

2. WLAN traffic is generated by using the iperf software to send packets from the Master IP address to the Slave IP address.

3. The time required for the master and slave devices to fully start up is 120s.

4. EUT does not support TPC.

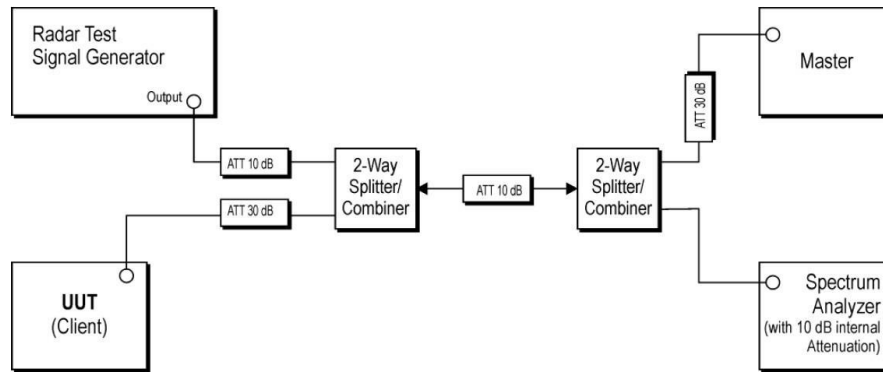
4.7 RADAR WAVEFORM CALIBRATION RESULT

Test data reference attachment.

4.8 IN-SERVICE MONITORING: CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD

TEST CONFIGURATION:

Setup for Client with injection at the Master



TEST PROCEDURE:

1. The radar pulse generator is setup to provide a pulse at frequency that the master and client are operating. A type 0 radar pulse with a 1us pulse width and a 1428us PRI is used for the testing.
2. The vector signal generator is adjusted to provide the radar burst (18 pulses) at the level of approximately -61dBm at the antenna port of the master device
3. A trigger is provided from the pulse generator to the DFS monitoring system in order to capture the traffic and the occurrence of the radar pulse.
4. EUT will associate with the master at channel. The file "iperf.exe" specified by the FCC is Streamed from the PC 2 through the master and the client device to the PC 1 and played in full motion video using Media Player Classic Ver. 6.4.8.6 in order to properly load the network for the entire period of the test.
5. When radar burst with a level equal to the DFS Detection Threshold +1dB is generated on the operating channel of the U-NII device. At time T0 the radar waveform generator sends a burst of pulse of the radar waveform at Detection Threshold +1dB.
6. Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel Measure and record the transmissions from the UUT during the observation time (Channel Move Time). One 15 seconds plot is reported for the Short Pulse Radar Type 0. The plot for the Short Pulse Radar Types start at the end of the radar burst. The Channel Move Time will be calculated based on the zoom In 600ms plot of the Short Pulse Radar Type
7. Measurement of the aggregate duration of the Channel Closed Transmission Time method. With the spectrum analyzer set to zero span tuned to the center frequency of the EUT operating channel at the radar simulated frequency, peak detection, and max hold, the dwell time per bin is given by: $Dwell (0.3ms) = S (12000ms) / B (4000)$; where Dwell is the dwell time per spectrum analyzer sampling bin, S is sweep time and B is the number of spectrum analyzer sampling bins. An upper bound of the aggregate duration of the intermittent control signals of Channel Closing Transmission Time is calculated by: $C (ms) = N \times Dwell (0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

TEST MODE:

Mode	Frequency (MHz)
a	5320
a	5500
ax40	5510

4.9 RESULT OF CHANNEL MOVE TIME, CHANNEL CLOSING TRANSMISSION TIME AND NON-OCCUPANCY PERIOD FOR CLIENT BEACON TEST

Test data reference attachment.

5. ANTENNA REQUIREMENT

5.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

5.2 EUT ANTENNA

The EUT antenna is permanent attached Ceramic antenna (antenna gain: 5G WIFI: 4.05dBi). It comply with the standard requirement.

END OF REPORT