FCC RADIO TEST REPORT
FCC ID: 2BLU9-QT9AVHEQ

Product:	Tablet PC
Trade Mark:	Compaq
Model No.:	M87QF68B-T606
Family Model:	QT9AVHE464Q, QT9AVHE464QS, QT9AVHE464QG
Report No.:	N25081905811E
Issue Date:	Oct. 09, 2025

Prepared for

M&M Electronics, S.A.
Cocosolito, Colon Free Zone, Main Entrance Warehouse10D and 11D, PanamA. Zip Code: 03050.

Prepared by

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TEST RESULT CERTIFICATION

Applicant's name ..... : M&M Electronics, S.A.

Address ..... : Cocosolito, Colon Free Zone, Main Entrance Warehouse10D and 11D, PanamA. Zip Code: 03050.

Manufacturer's Name..... : Hena Digital Technology (Shenzhen) Co., Ltd.

Address ..... : 13F, Block B, Tairan Building Tairan 8th Road, Futian District, Shenzhen, China

Product description

Product name..... : Tablet PC

Trade Mark..... : Compaq

Model and/or type reference ..... : M87QF68B-T606

Family Model..... : QT9AVHE464Q, QT9AVHE464QS, QT9AVHE464QG

Test Sample Number ..... S2508200080-1#

Standards..... : FCC Part15.407

Test procedure ..... ANSI C63.10-2020+Cor.1-2023
KDB 789033 D02 General UNII Test Procedures New Rules v02r01
KDB 905462 D03 Client Without DFS New Rules v01r02
KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02

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. 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 ..... Aug. 20, 2025 ~Sept. 30, 2025

Date of Issue..... Oct. 09, 2025

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

Prepared By :	Reviewed By :	Approved By :
Allen Liu	Aaron Cheng	Alex Li
Allen Liu	Aaron Cheng	Alex Li
(Project Engineer)	(Supervisor)	(Manager)

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Revision History

Report No.	Version	Description	Issued Date
N25081905811E	Rev.01	Initial issue of report	Oct. 09, 2025

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)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4) 15.407(b)(8)(9)	Spurious Radiated Emissions	PASS	
15.407 (a)	26 dB and 99% Emission Bandwidth	PASS	
15.407(e)	Minimum 6 dB bandwidth	PASS	
15.407 (a)	Maximum Conducted Output Power	PASS	
15.407 (b)(1) 15.407 (b)(2) 15.407 (b)(3) 15.407 (b)(4)	Band Edge	PASS	
15.407 (a)	Power Spectral Density	PASS	
15.407(b)	Spurious Emissions at Antenna Terminals	PASS	
15.407(g)	Frequency Stability Measurement	PASS	
15.407(h)	Dynamic Frequency Selection(DFS)	PASS	
15.203	Antenna Requirement	PASS	
15.407(c)	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 Xinfa 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
Name of Firm	:	Shenzhen NTEK Testing Technology Co., Ltd.
Site Location	:	No. 24 Xinfa 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±U, where expended 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	±2.80dB
2	RF power, conducted, PSD	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	Occupied bandwidth	±4.7%
5	All emissions, radiated(9KHz~30MHz)	±6dB
6	All emissions, radiated(30MHz~1GHz)	±2.64dB
7	All emissions, radiated(1GHz~6GHz)	±2.40dB
8	All emissions, radiated(> 6GHz)	±2.52dB
9	Temperature	±0.5°C
10	Humidity	±2%
11	Radio Frequency	±0.2ppm
12	Occupied bandwidth	±4.7%
13	Time	±5.4%

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Tablet PC
Trade Mark	Compaq
Model Name	M87QF68B-T606
Family Model	QT9AVHE464Q, QT9AVHE464QS, QT9AVHE464QG
Model Difference	All model are the same circuit and RF module, except for the names.
FCC ID	2BLU9-QT9AVHEQ
Product Description	

Mode Supported	☒802.11a ☒802.11n(HT20) ☒802.11n(HT40) ☒802.11ac(HT20) ☒802.11ac(HT40) ☒802.11ac(HT80)
Data Rate	802.11a: 6,9,12,18,24,36,48,54Mbps; 802.11n(HT20/HT40):MCS0-MCS15; 802.11ac(VHT20): NSS1, MCS0-MCS8 802.11ac(VHT40/VHT80):NSS1, MCS0-MCS9
Modulation	OFDM with BPSK/QPSK/16QAM/64QAM
Operating Frequency Range	☒ U-NII-1: 5150 MHz ~5250MHz ☒ U-NII-2A: 5250MHz~5350MHz ☒ U-NII-2C: 5470MHz~5725MHz ☒ U-NII-3: 5725 MHz ~5850 MHz
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	FPC antenna
Antenna Gain	2.88dBi

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	Model: TEKA-UCA20US Input: 100-240V~50/60Hz 0.35A MAX Output: 5.0V⎓2.0A
Battery	DC 3.8V, 4500mAh, 17.1Wh
Power supply	DC 3.8V from battery or DC 5V from adapter
I/O Port(s)	Please refer to the User's Manual
HW Version	T30-T616-V2.0-240513-QU
SW Version	Android 15

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		80MHz	
	Channel	Frequency	Channel	Frequency	Channel	Frequency
U-NII-1	36	5180 MHz	38	5190 MHz	42	5210 MHz
	40	5200 MHz	46	5230 MHz	-	-
	44	5220 MHz				
	48	5240 MHz				
U-NII-2A	52	5260 MHz	54	5270 MHz	58	5290 MHz
	56	5280 MHz	62	5310 MHz		
	60	5300 MHz				
	64	5320 MHz				
U-NII-2C	100	5500 MHz	102	5510 MHz	106	5530 MHz
	104	5520 MHz	110	5550 MHz	122	5610 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				
	136	5680 MHz				
	140	5700 MHz				
U-NII-3	149	5745 MHz	151	5755 MHz	155	5775 MHz
	153	5765 MHz	159	5795 MHz		
	157	5785 MHz				
	161	5805 MHz				
	165	5825 MHz				

1.2 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.

For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH48/CH52/CH56/CH64/CH100/CH120/CH140/CH149/ CH157/CH165
Mode 3	802.11n40/ac40 CH38/CH46/CH54/CH62/CH102/CH118/CH134/CH151/ CH159
Mode 4	802.11ac80 CH42/CH58/CH106/CH122/CH155

For Conducted Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH48/CH52/CH56/CH64/CH100/CH120/CH140/CH149/ CH157/CH165
Mode 3	802.11n40/ac40 CH38/CH46/CH54/CH62/CH102/CH118/CH134/CH151/ CH159
Mode 4	802.11ac80 CH42/CH58/CH106/CH122/CH155

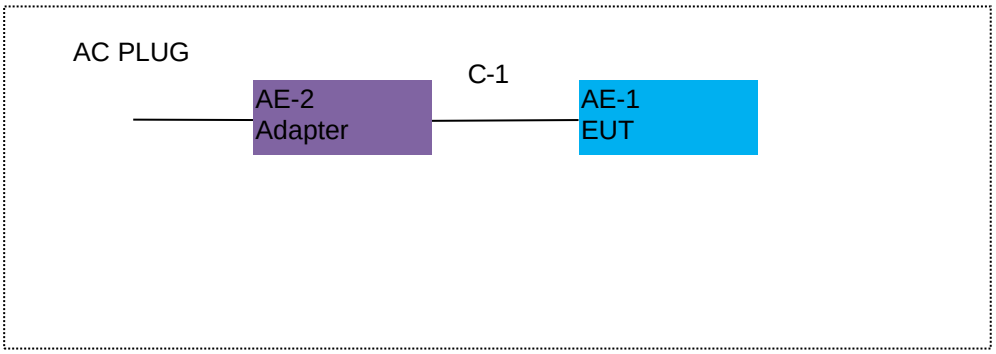
Note:

(1) The measurements are performed at the highest, middle, lowest available channels.

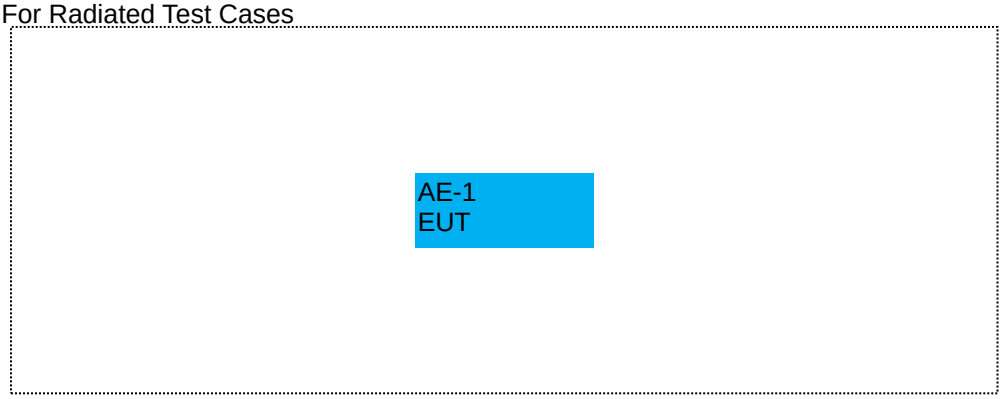
(2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

1.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

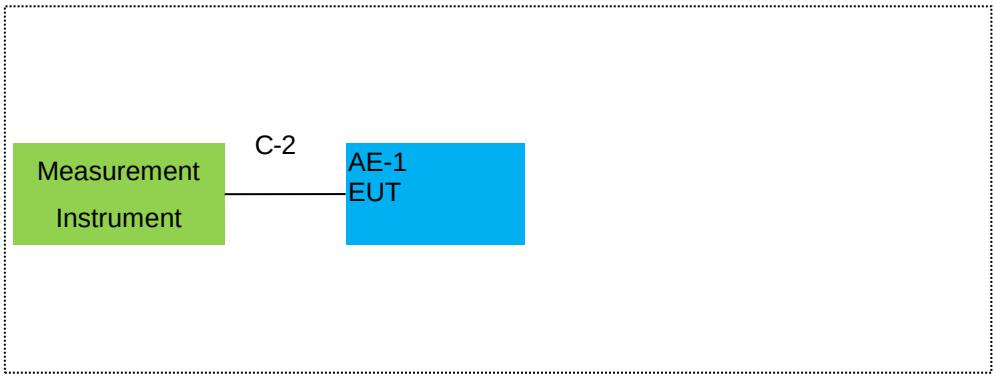
For AC Conducted Emission Mode



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.

1.4 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	Tablet PC	M87QF68B-T606	N/A	EUT
AE-2	Adapter	TEKA-UCA20US	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	Power Cable	NO	NO	0.8m
C-2	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.

(3) During the battery power test, the battery is fully charged.

1.5 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	2025.04.24	2026.04.23	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2025.04.17	2026.04.16	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2025.04.17	2026.04.16	1 year
4	Test Receiver	R&S	ESPI7	101318	2025.04.17	2026.04.16	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2025.04.17	2026.04.16	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	2025.04.17	2026.04.16	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519 B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SNO84	2025.04.17	2026.04.16	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2023.05.06	2026.05.05	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2023.05.06	2026.05.05	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2023.05.06	2026.05.05	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	2025.04.17	2026.04.16	1 year
2	LISN	R&S	ENV216	101313	2025.04.16	2026.04.15	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2025.04.16	2026.04.15	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	2023.05.06	2026.05.05	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2023.05.06	2026.05.05	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2023.05.06	2026.05.05	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

2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

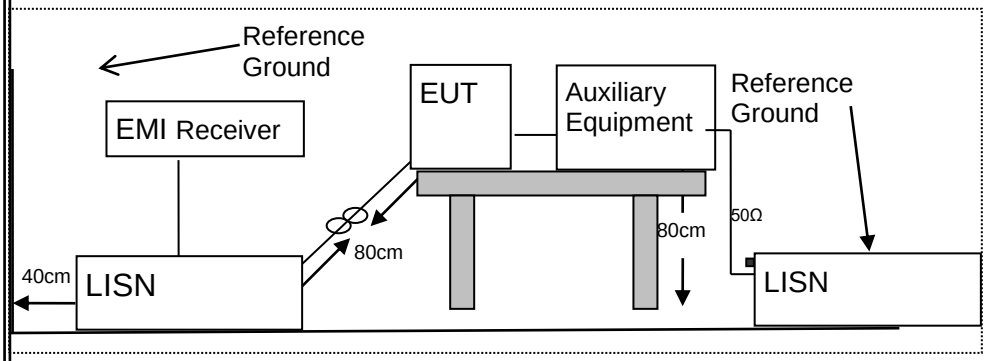
2.1.1 APPLICABLE STANDARD

According to FCC Part 15.207(a)

2.1.2 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.		

2.1.3 TEST CONFIGURATION



2.1.4 TEST PROCEDURE

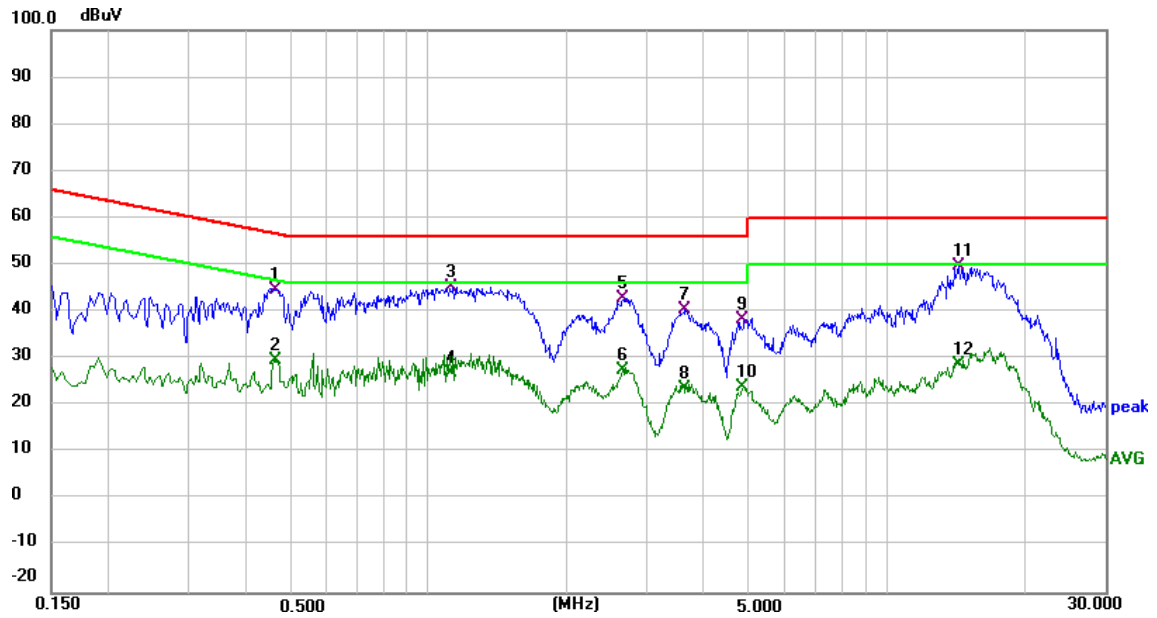
According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor.1-2023 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

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.

EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	20.9℃	Relative Humidity：	60.3%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.4637	25.00	19.68	44.68	56.63	-11.95	QP
0.4637	9.88	19.68	29.56	46.63	-17.07	AVG
1.1220	25.39	19.79	45.18	56.00	-10.82	QP
1.1220	7.28	19.79	27.07	46.00	-18.93	AVG
2.6580	23.07	19.85	42.92	56.00	-13.08	QP
2.6580	7.82	19.85	27.67	46.00	-18.33	AVG
3.6060	20.45	19.90	40.35	56.00	-15.65	QP
3.6060	3.73	19.90	23.63	46.00	-22.37	AVG
4.8659	18.50	19.97	38.47	56.00	-17.53	QP
4.8659	4.00	19.97	23.97	46.00	-22.03	AVG
14.2900	27.99	21.66	49.65	60.00	-10.35	QP
14.2900	7.15	21.66	28.81	50.00	-21.19	AVG

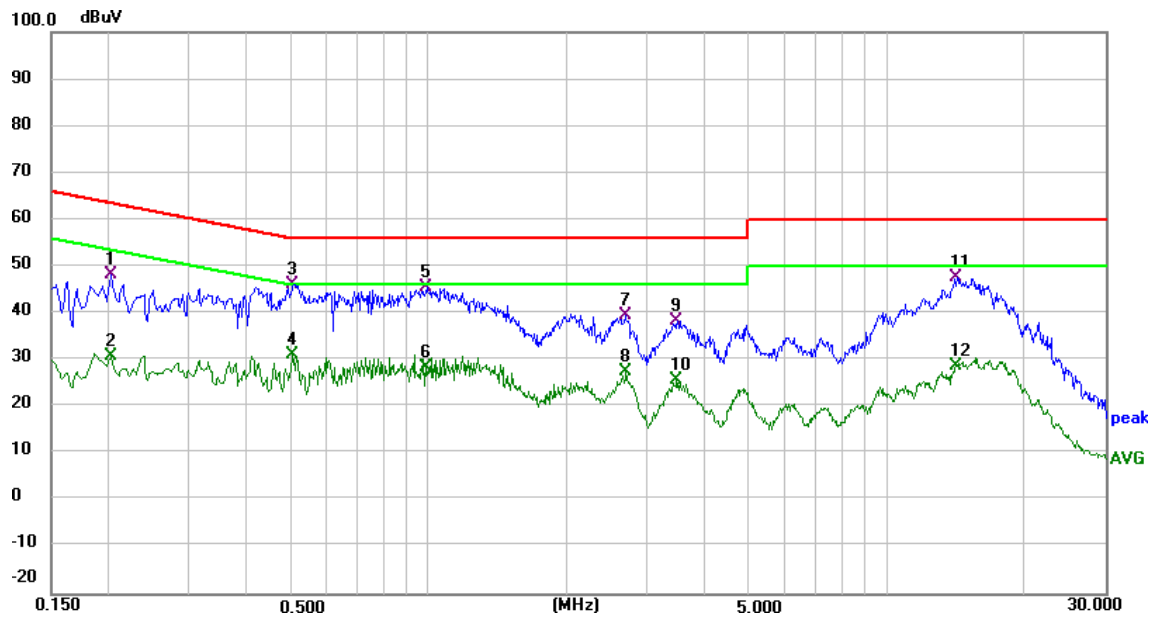
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	20.9℃	Relative Humidity：	60.3%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2020	28.72	19.65	48.37	63.53	-15.16	QP
0.2020	11.08	19.65	30.73	53.53	-22.80	AVG
0.5060	26.44	19.69	46.13	56.00	-9.87	QP
0.5060	11.41	19.69	31.10	46.00	-14.90	AVG
0.9860	25.77	19.78	45.55	56.00	-10.45	QP
0.9860	8.54	19.78	28.32	46.00	-17.68	AVG
2.6860	19.64	19.89	39.53	56.00	-16.47	QP
2.6860	7.65	19.89	27.54	46.00	-18.46	AVG
3.4860	18.42	19.95	38.37	56.00	-17.63	QP
3.4860	5.83	19.95	25.78	46.00	-20.22	AVG
14.1460	26.16	21.53	47.69	60.00	-12.31	QP
14.1460	7.28	21.53	28.81	50.00	-21.19	AVG

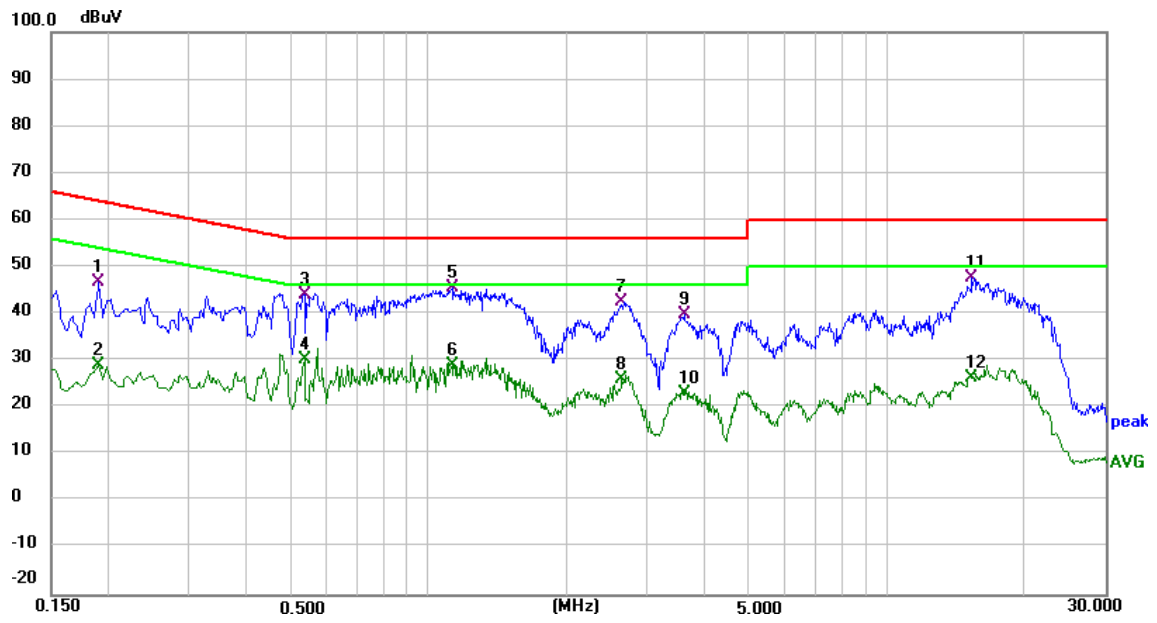
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	20.9℃	Relative Humidity：	60.3%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1(5.3G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1900	27.22	19.65	46.87	64.04	-17.17	QP
0.1900	9.54	19.65	29.19	54.04	-24.85	AVG
0.5340	24.38	19.69	44.07	56.00	-11.93	QP
0.5340	10.68	19.69	30.37	46.00	-15.63	AVG
1.1260	25.72	19.80	45.52	56.00	-10.48	QP
1.1260	9.19	19.80	28.99	46.00	-17.01	AVG
2.6420	22.76	19.85	42.61	56.00	-13.39	QP
2.6420	6.13	19.85	25.98	46.00	-20.02	AVG
3.6180	20.04	19.90	39.94	56.00	-16.06	QP
3.6180	3.09	19.90	22.99	46.00	-23.01	AVG
15.2380	25.75	21.87	47.62	60.00	-12.38	QP
15.2380	4.47	21.87	26.34	50.00	-23.66	AVG

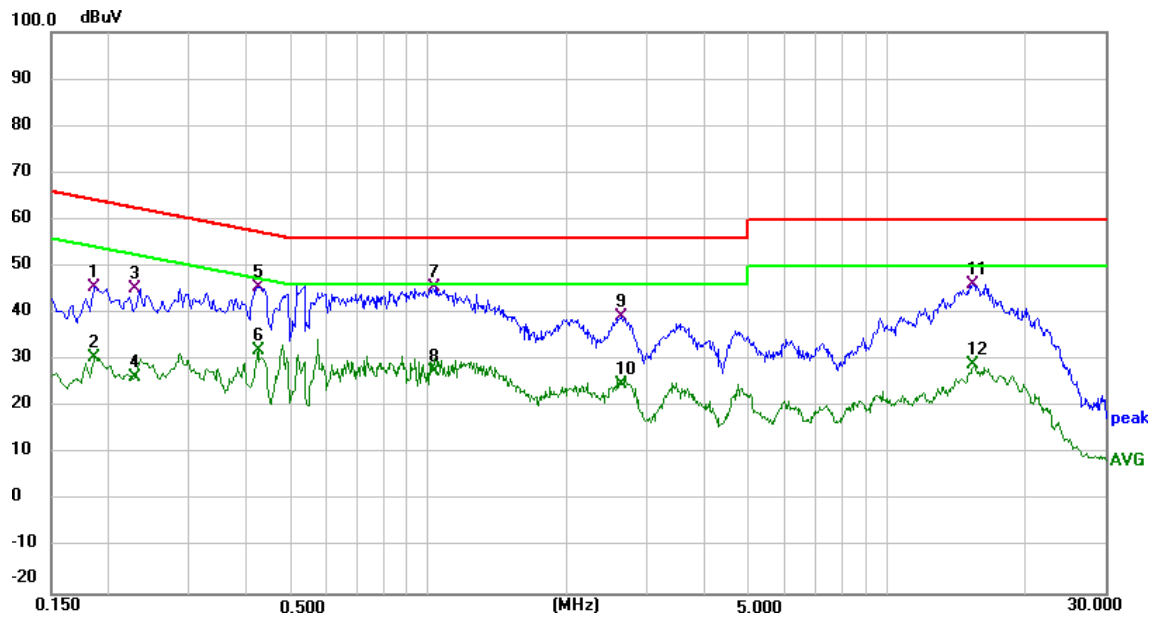
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	20.9℃	Relative Humidity：	60.3%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1(5.3G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1860	26.03	19.64	45.67	64.21	-18.54	QP
0.1860	10.95	19.64	30.59	54.21	-23.62	AVG
0.2280	25.71	19.66	45.37	62.52	-17.15	QP
0.2280	6.67	19.66	26.33	52.52	-26.19	AVG
0.4220	26.00	19.67	45.67	57.41	-11.74	QP
0.4220	12.32	19.67	31.99	47.41	-15.42	AVG
1.0339	25.70	19.78	45.48	56.00	-10.52	QP
1.0339	7.92	19.78	27.70	46.00	-18.30	AVG
2.6460	19.51	19.88	39.39	56.00	-16.61	QP
2.6460	5.01	19.88	24.89	46.00	-21.11	AVG
15.4100	24.15	21.94	46.09	60.00	-13.91	QP
15.4100	7.18	21.94	29.12	50.00	-20.88	AVG

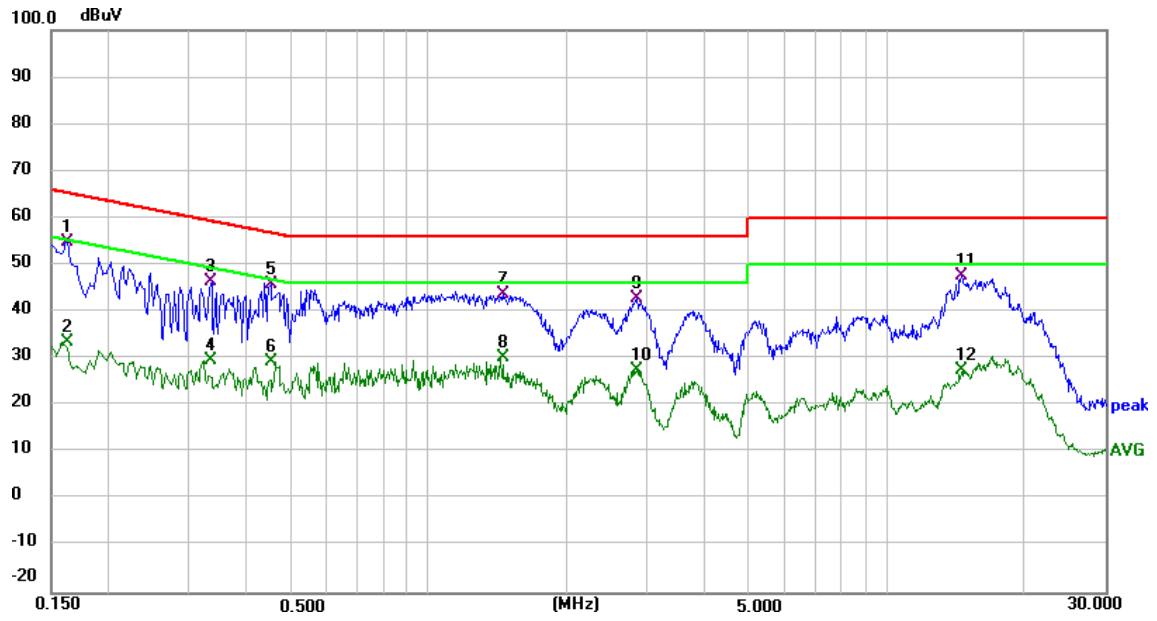
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	20.9℃	Relative Humidity：	60.3%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter 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
0.1620	35.34	19.65	54.99	65.36	-10.37	QP
0.1620	13.99	19.65	33.64	55.36	-21.72	AVG
0.3339	26.71	19.68	46.39	59.35	-12.96	QP
0.3339	9.95	19.68	29.63	49.35	-19.72	AVG
0.4500	26.21	19.68	45.89	56.88	-10.99	QP
0.4500	9.81	19.68	29.49	46.88	-17.39	AVG
1.4540	23.86	19.81	43.67	56.00	-12.33	QP
1.4540	10.40	19.81	30.21	46.00	-15.79	AVG
2.8420	22.87	19.85	42.72	56.00	-13.28	QP
2.8420	7.76	19.85	27.61	46.00	-18.39	AVG
14.5740	25.77	21.74	47.51	60.00	-12.49	QP
14.5740	5.82	21.74	27.56	50.00	-22.44	AVG

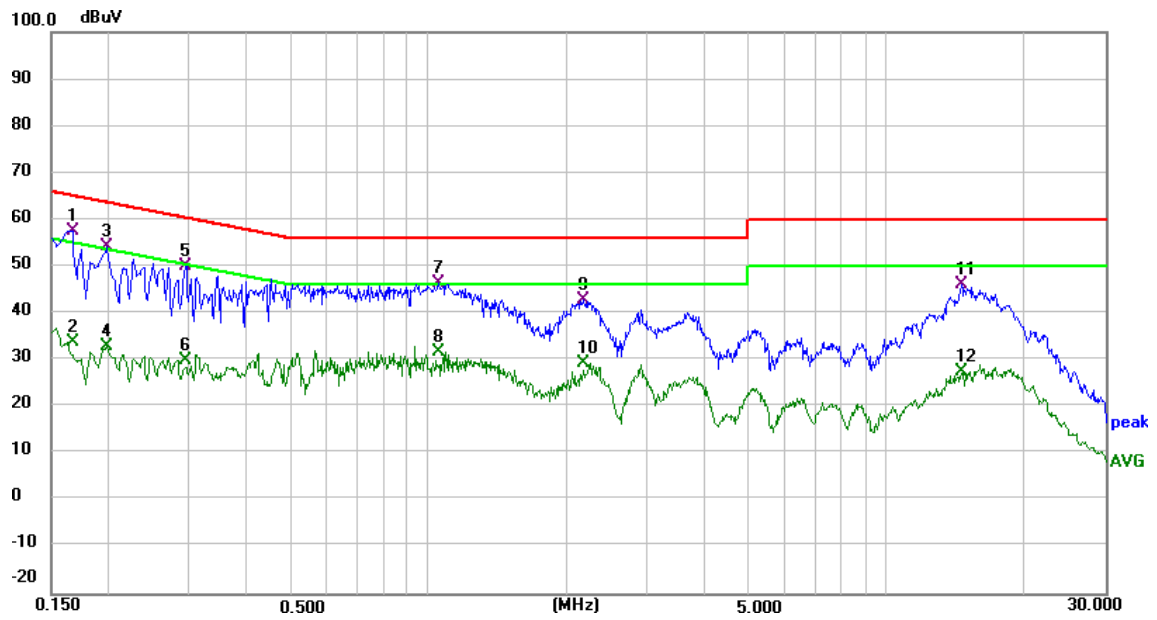
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	20.9℃	Relative Humidity：	60.3%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter 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
0.1660	37.88	19.64	57.52	65.16	-7.64	QP
0.1660	14.12	19.64	33.76	55.16	-21.40	AVG
0.1980	34.49	19.64	54.13	63.69	-9.56	QP
0.1980	13.25	19.64	32.89	53.69	-20.80	AVG
0.2940	30.23	19.68	49.91	60.41	-10.50	QP
0.2940	10.16	19.68	29.84	50.41	-20.57	AVG
1.0540	26.80	19.78	46.58	56.00	-9.42	QP
1.0540	12.07	19.78	31.85	46.00	-14.15	AVG
2.1820	23.00	19.85	42.85	56.00	-13.15	QP
2.1820	9.50	19.85	29.35	46.00	-16.65	AVG
14.5660	24.35	21.72	46.07	60.00	-13.93	QP
14.5660	5.97	21.72	27.69	50.00	-22.31	AVG

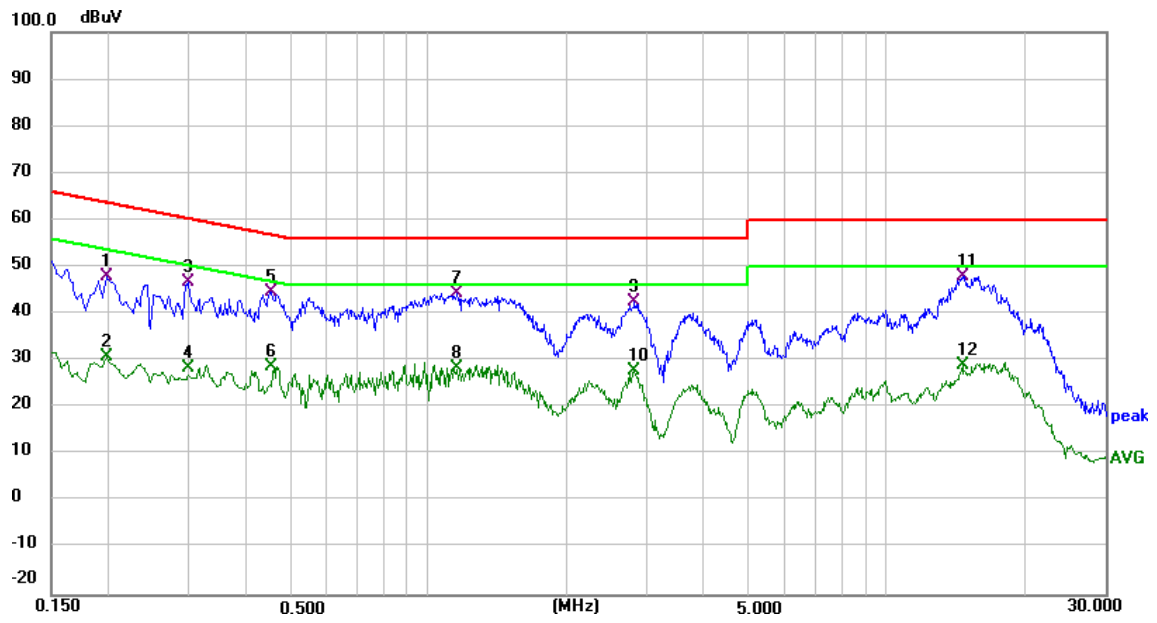
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	20.9℃	Relative Humidity：	60.3%
Pressure：	1010hPa	Phase：	L
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1980	28.37	19.65	48.02	63.69	-15.67	QP
0.1980	11.20	19.65	30.85	53.69	-22.84	AVG
0.2980	27.00	19.68	46.68	60.30	-13.62	QP
0.2980	8.76	19.68	28.44	50.30	-21.86	AVG
0.4500	25.11	19.68	44.79	56.88	-12.09	QP
0.4500	9.06	19.68	28.74	46.88	-18.14	AVG
1.1580	24.46	19.80	44.26	56.00	-11.74	QP
1.1580	8.65	19.80	28.45	46.00	-17.55	AVG
2.8100	22.73	19.85	42.58	56.00	-13.42	QP
2.8100	7.91	19.85	27.76	46.00	-18.24	AVG
14.6380	26.26	21.76	48.02	60.00	-11.98	QP
14.6380	7.33	21.76	29.09	50.00	-20.91	AVG

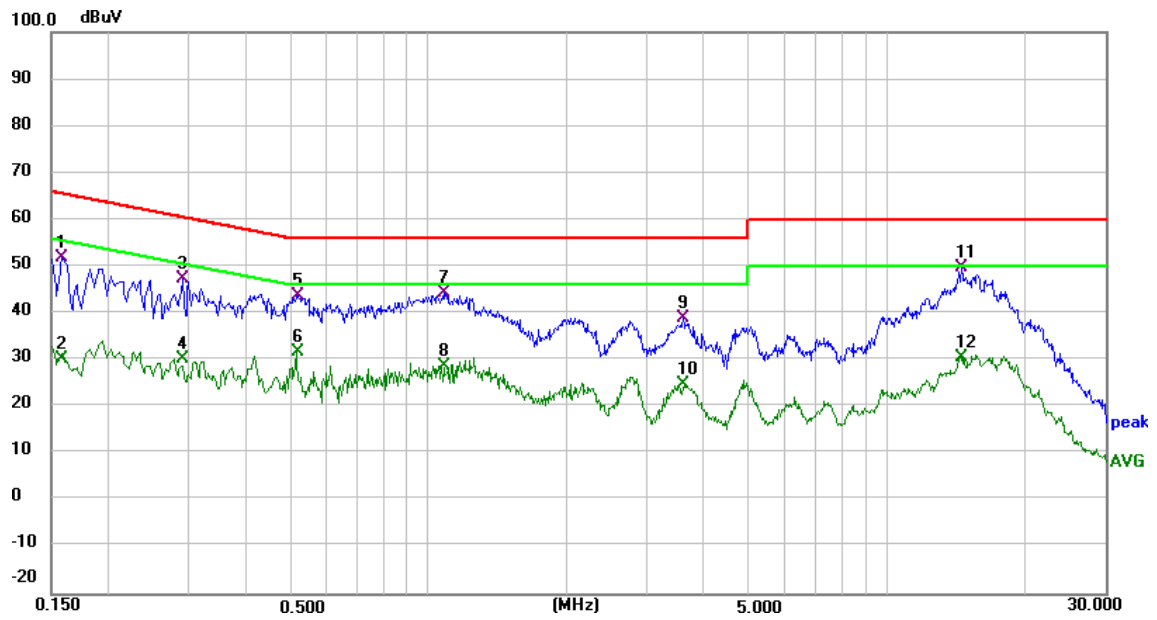
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.



EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	20.9℃	Relative Humidity：	60.3%
Pressure：	1010hPa	Phase：	N
Test Voltage ：	DC 5V from Adapter AC 120V/60Hz	Test Mode：	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	32.08	19.64	51.72	65.57	-13.85	QP
0.1580	10.55	19.64	30.19	55.57	-25.38	AVG
0.2900	27.59	19.68	47.27	60.52	-13.25	QP
0.2900	10.44	19.68	30.12	50.52	-20.40	AVG
0.5180	24.13	19.69	43.82	56.00	-12.18	QP
0.5180	12.13	19.69	31.82	46.00	-14.18	AVG
1.0820	24.53	19.78	44.31	56.00	-11.69	QP
1.0820	9.10	19.78	28.88	46.00	-17.12	AVG
3.5900	18.93	19.96	38.89	56.00	-17.11	QP
3.5900	4.98	19.96	24.94	46.00	-21.06	AVG
14.5620	28.08	21.72	49.80	60.00	-10.20	QP
14.5620	8.88	21.72	30.60	50.00	-19.40	AVG

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



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(b) and 15.209&15.205

2.2.2 CONFORMANCE LIMIT

According to FCC Part 15.407 (b) (9) (10) : 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 Part15.205, 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			

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.

Undesirable emission limits. Except as shown in paragraph (b)(7)) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the

following limits:

(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

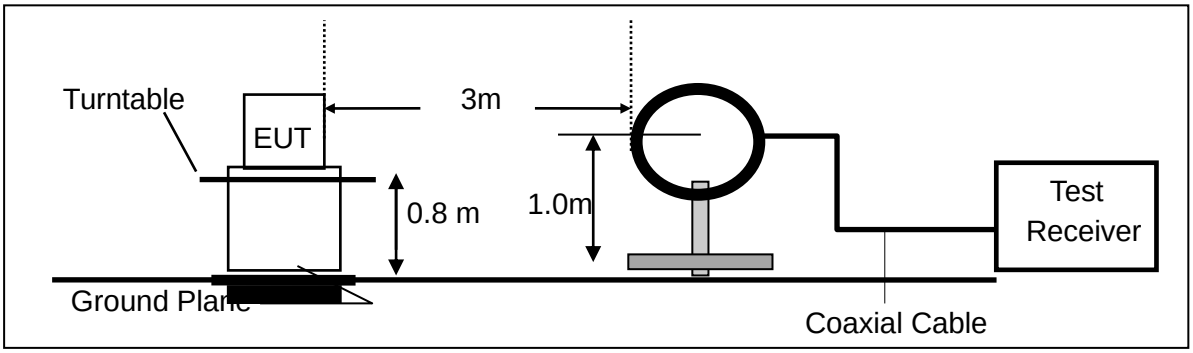
(4) For transmitters operating in the 5.725-5.85 GHz band:
(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

2.2.3 MEASURING INSTRUMENTS

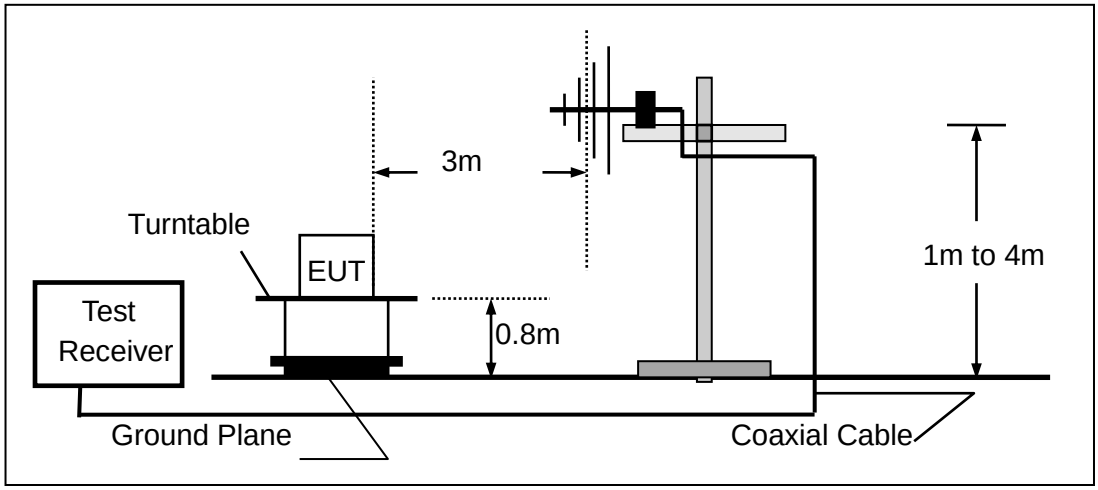
The Measuring equipment is listed in the section 6.3 of this test report.

2.2.4 TEST CONFIGURATION

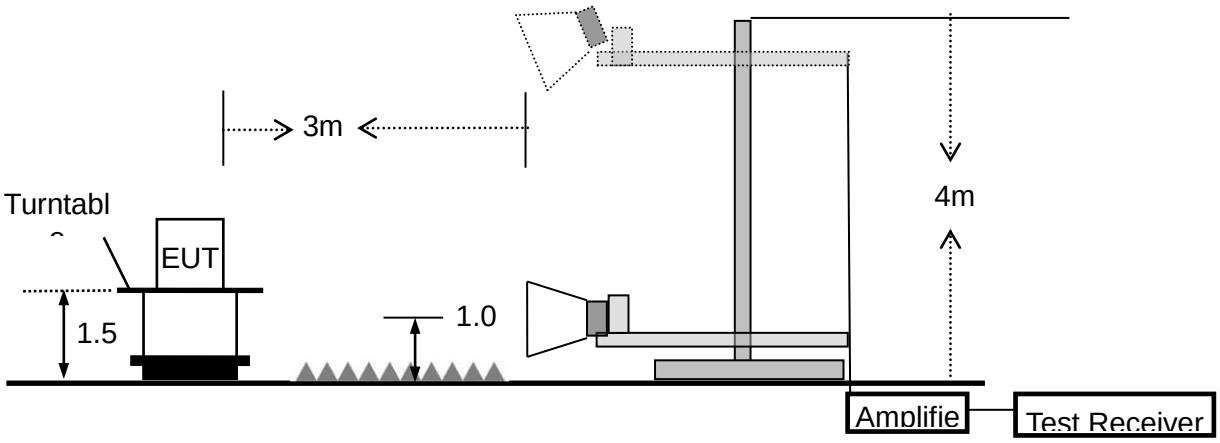
(a) For radiated emissions below 30MHz



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



(c) For radiated emissions above 1000MHz



2.2.5 TEST PROCEDURE

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10-2020+Cor.1-2023. The test distance is 3m.The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020+Cor.1-2023 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 / 10Hz 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

a. 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.
b. 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.
c. 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.
d. 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.
e. 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.
f. 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	10 Hz

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*lg(100 [kHz]/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.

2.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT：	Tablet PC	Model Name ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
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.

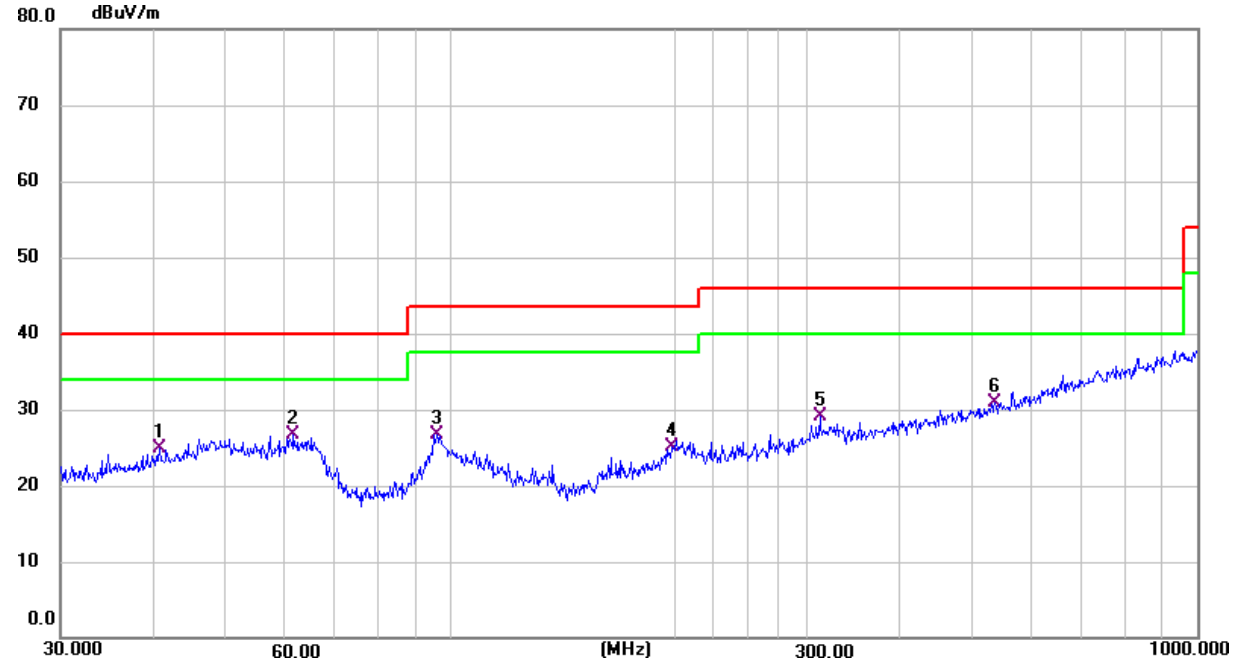
2.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	Tablet PC	Model Name :	M87QF68B-T606
Temperature :	25.3℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.2G WIFI)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	40.7016	6.14	18.70	24.84	40.00	-15.16	QP
V	61.5618	8.11	18.64	26.75	40.00	-13.25	QP
V	95.7622	9.62	17.11	26.73	43.50	-16.77	QP
V	197.8928	7.05	18.00	25.05	43.50	-18.45	QP
V	312.1794	8.44	20.71	29.15	46.00	-16.85	QP
V	535.7073	5.53	25.45	30.98	46.00	-15.02	QP

Remark:

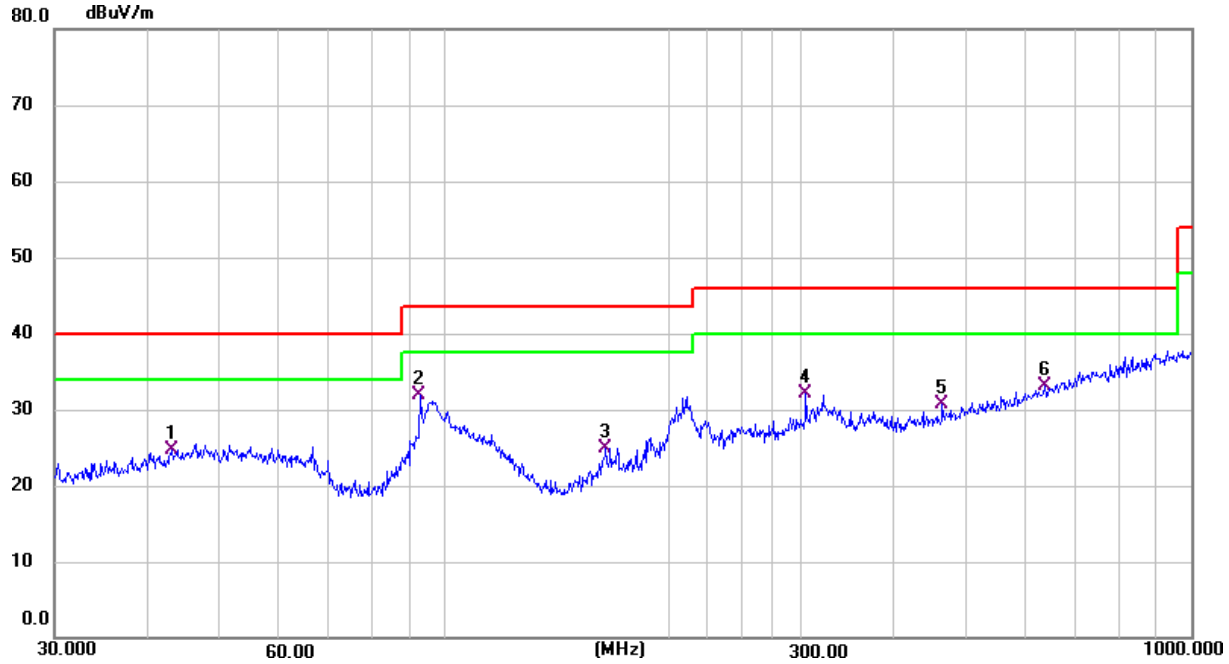
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	43.0505	5.29	19.35	24.64	40.00	-15.36	QP
H	92.7871	15.55	16.41	31.96	43.50	-11.54	QP
H	164.3301	9.73	15.23	24.96	43.50	-18.54	QP
H	304.6099	11.48	20.54	32.02	46.00	-13.98	QP
H	463.9696	6.66	24.09	30.75	46.00	-15.25	QP
H	636.1340	6.29	26.83	33.12	46.00	-12.88	QP

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



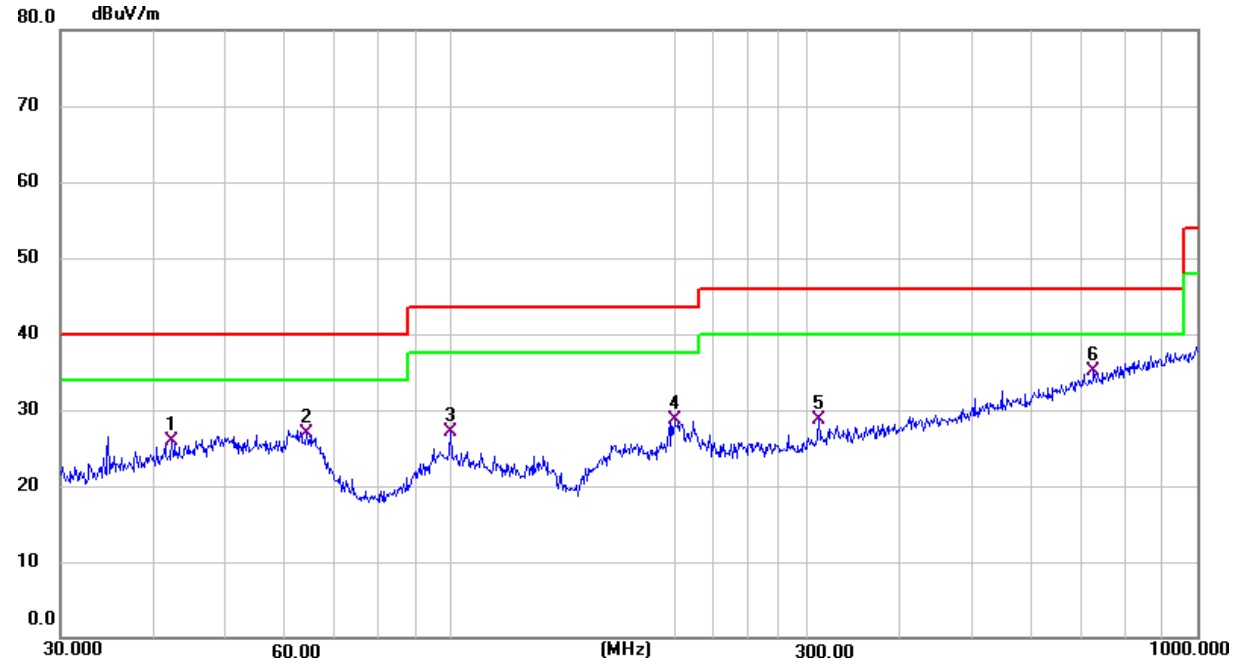
Note: All modes have been tested, just the worst mode has been recorded in the report.

EUT :	Tablet PC	Model Name :	M87QF68B-T606
Temperature :	25.3℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.3G WIFI)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	42.3022	6.81	19.06	25.87	40.00	-14.13	QP
V	64.2074	8.91	18.09	27.00	40.00	-13.00	QP
V	99.8777	9.17	17.89	27.06	43.50	-16.44	QP
V	199.2855	10.57	18.18	28.75	43.50	-14.75	QP
V	311.0867	7.99	20.68	28.67	46.00	-17.33	QP
V	726.8052	6.19	28.86	35.05	46.00	-10.95	QP

Remark:

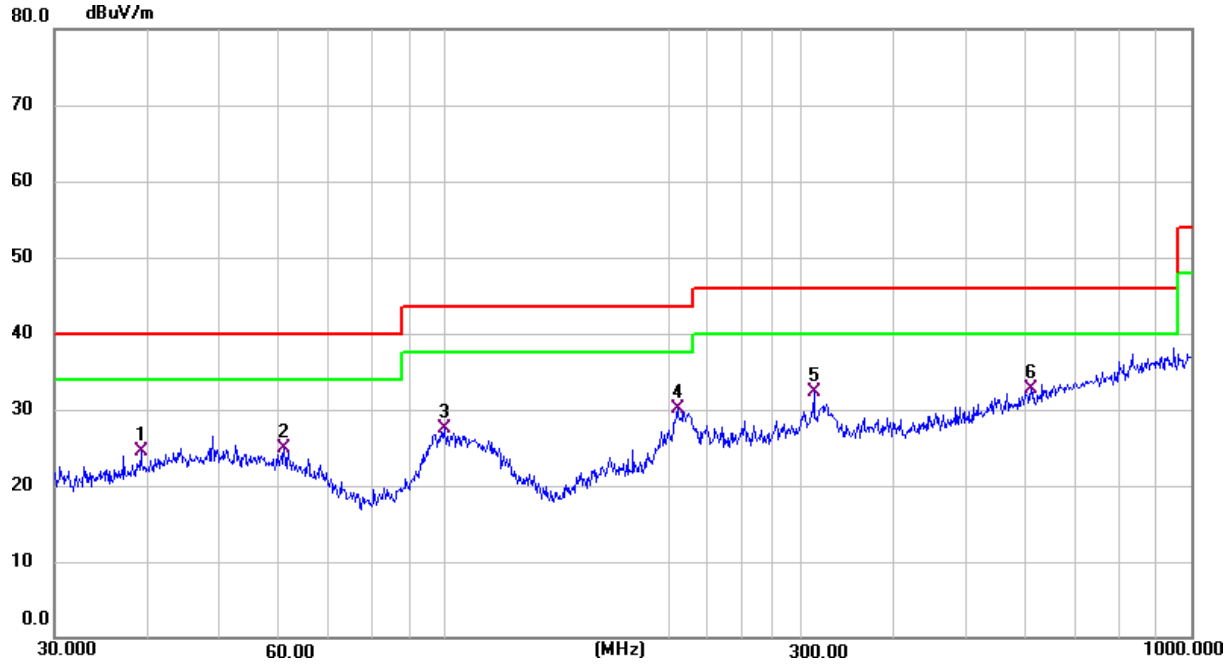
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	39.1616	6.07	18.46	24.53	40.00	-15.47	QP
H	60.9176	6.05	18.76	24.81	40.00	-15.19	QP
H	99.8777	9.65	17.89	27.54	43.50	-15.96	QP
H	204.9551	12.08	18.12	30.20	43.50	-13.30	QP
H	312.1794	11.65	20.71	32.36	46.00	-13.64	QP
H	609.9217	6.20	26.47	32.67	46.00	-13.33	QP

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



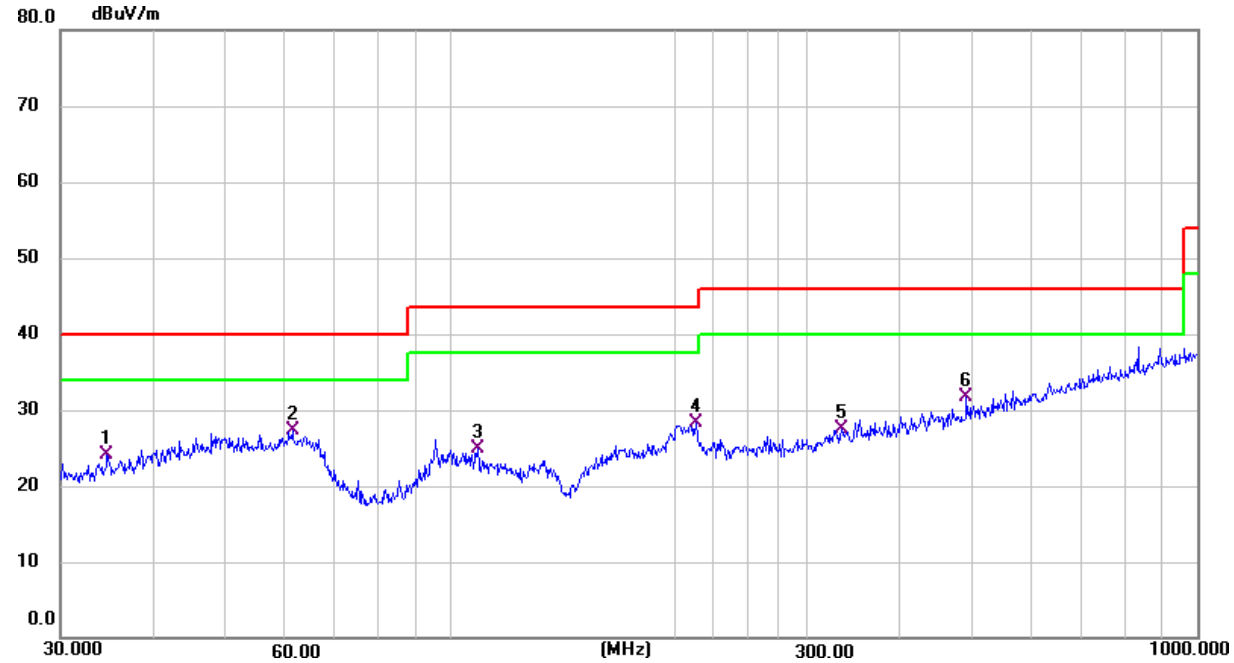
Note: All modes have been tested, just the worst mode has been recorded in the report.

EUT :	Tablet PC	Model Name :	M87QF68B-T606
Temperature :	25.3℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.6G WIFI)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	34.6385	6.78	17.23	24.01	40.00	-15.99	QP
V	61.3463	8.68	18.68	27.36	40.00	-12.64	QP
V	108.6470	6.93	17.91	24.84	43.50	-18.66	QP
V	213.0151	9.99	18.24	28.23	43.50	-15.27	QP
V	333.6867	6.15	21.36	27.51	46.00	-18.49	QP
V	490.7447	7.26	24.38	31.64	46.00	-14.36	QP

Remark:

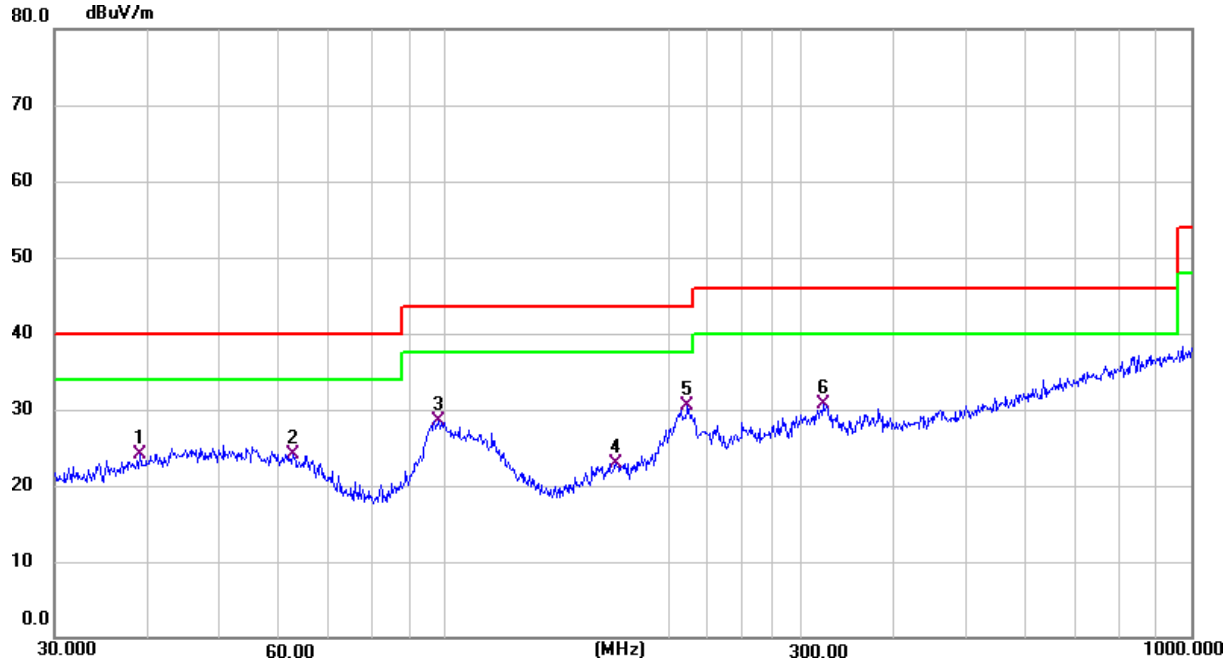
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	39.0245	5.59	18.43	24.02	40.00	-15.98	QP
H	62.6507	5.52	18.49	24.01	40.00	-15.99	QP
H	98.1419	10.88	17.62	28.50	43.50	-15.00	QP
H	169.5990	7.42	15.54	22.96	43.50	-20.54	QP
H	211.5265	12.28	18.24	30.52	43.50	-12.98	QP
H	321.0608	9.83	20.91	30.74	46.00	-15.26	QP

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



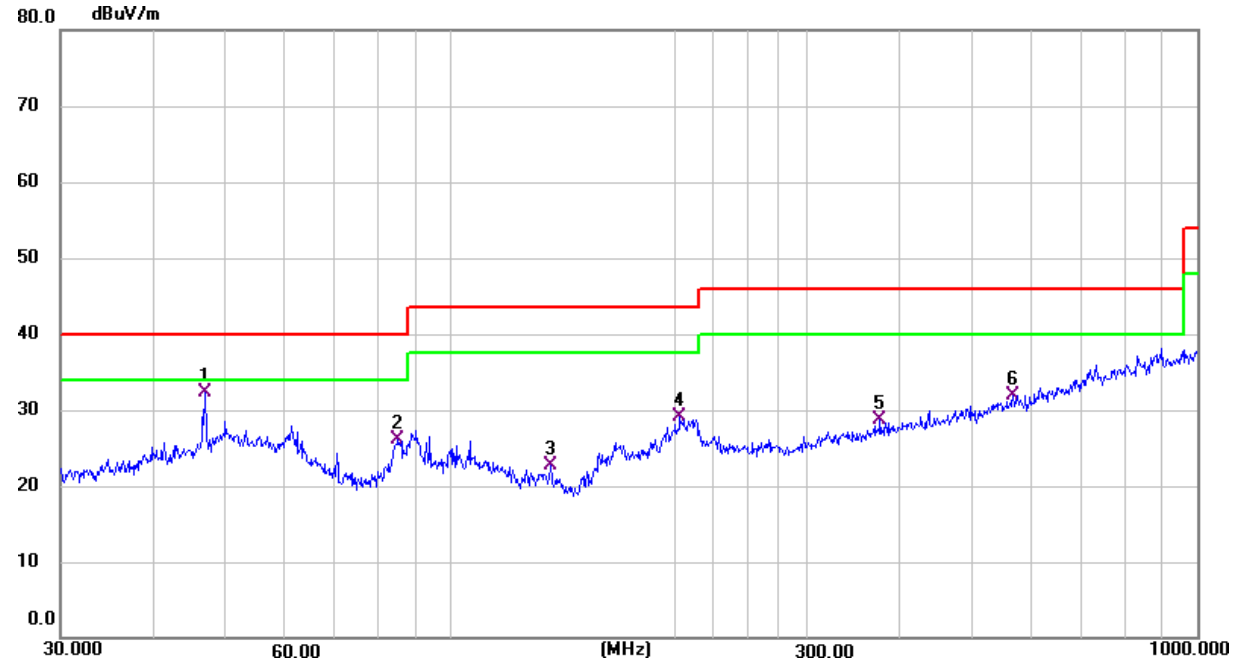
Note: All modes have been tested, just the worst mode has been recorded in the report.

EUT :	Tablet PC	Model Name :	M87QF68B-T606
Temperature :	25.3℃	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.8G WIFI)		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
V	46.8303	12.65	19.66	32.31	40.00	-7.69	QP
V	84.9995	11.64	14.49	26.13	40.00	-13.87	QP
V	135.9822	8.04	14.57	22.61	43.50	-20.89	QP
V	202.8104	10.95	18.12	29.07	43.50	-14.43	QP
V	375.9385	6.25	22.43	28.68	46.00	-17.32	QP
V	566.6223	6.27	25.73	32.00	46.00	-14.00	QP

Remark:

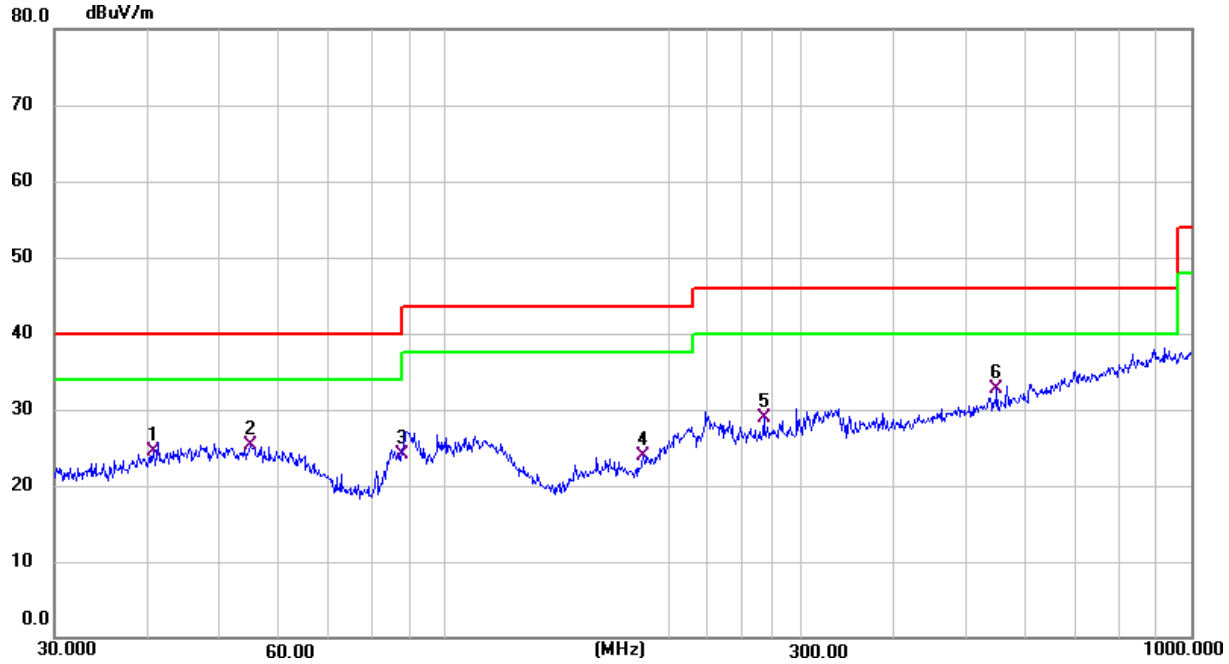
Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	40.7016	5.88	18.70	24.58	40.00	-15.42	QP
H	54.8348	5.75	19.51	25.26	40.00	-14.74	QP
H	87.7246	8.89	15.16	24.05	40.00	-15.95	QP
H	184.4898	7.18	16.73	23.91	43.50	-19.59	QP
H	267.5454	9.16	19.77	28.93	46.00	-17.07	QP
H	549.0193	7.07	25.55	32.62	46.00	-13.38	QP

Remark:

Emission Level= ReadingLevel+ Factor, Margin= Emission Level - Limit



Note: All modes have been tested, just the worst mode has been recorded in the report.

2.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	Tablet PC	Model Name. :	M87QF68B-T606
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.2G) - 802.11a		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5180 MHz)-Above 1G									
Vertical	3694.10	60.98	5.94	35.40	44.00	58.32	74.00	-15.68	Pk
Vertical	3694.10	40.84	5.94	35.40	44.00	38.18	54.00	-15.82	AV
Vertical	10360.15	59.07	8.46	39.75	44.50	62.78	68.20	-5.42	Pk
Vertical	15540.22	60.25	10.12	38.80	44.10	65.07	74.00	-8.93	Pk
Vertical	15540.22	39.88	10.12	38.80	42.70	46.10	54.00	-7.90	AV
Horizontal	3713.00	59.89	5.94	35.18	44.00	57.01	74.00	-16.99	Pk
Horizontal	3713.00	40.88	5.94	35.18	44.00	38.00	54.00	-16.00	AV
Horizontal	10360.47	59.47	8.46	38.71	44.50	62.14	68.20	-6.06	Pk
Horizontal	15540.38	59.96	10.12	38.38	44.10	64.36	74.00	-9.64	Pk
Horizontal	15540.38	39.87	10.12	38.38	44.10	44.27	54.00	-9.73	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	3624.13	60.26	6.48	36.35	44.05	59.04	74.00	-14.96	Pk
Vertical	3624.13	39.82	6.48	36.35	44.05	38.60	54.00	-15.40	AV
Vertical	10400.09	60.71	8.47	37.88	44.51	62.55	68.20	-5.65	Pk
Vertical	15600.15	59.74	10.12	38.80	44.10	64.56	74.00	-9.44	Pk
Vertical	15600.15	40.75	10.12	38.80	42.70	46.97	54.00	-7.03	AV
Horizontal	4202.14	59.96	6.48	36.37	44.05	58.76	74.00	-15.24	Pk
Horizontal	4202.14	40.21	6.48	36.37	44.05	39.01	54.00	-14.99	AV
Horizontal	10400.14	60.99	8.47	38.64	44.50	63.60	68.20	-4.60	Pk
Horizontal	15600.51	60.60	10.12	38.38	44.10	65.00	74.00	-9.00	Pk
Horizontal	15600.51	39.06	10.12	38.38	44.10	43.46	54.00	-10.54	AV
High Channel (5240 MHz)-Above 1G									
Vertical	4597.70	59.93	7.10	37.24	43.50	60.77	74.00	-13.23	Pk
Vertical	4597.70	39.19	7.10	37.24	43.50	40.03	54.00	-13.97	AV
Vertical	10480.23	59.19	8.46	37.68	44.50	60.83	68.20	-7.37	Pk
Vertical	15720.15	59.60	10.12	38.80	44.10	64.42	74.00	-9.58	Pk
Vertical	15720.15	39.35	10.12	38.80	42.70	45.57	54.00	-8.43	AV
Horizontal	4589.26	60.46	7.10	37.24	43.50	61.30	74.00	-12.70	Pk
Horizontal	4589.26	39.63	7.10	37.24	43.50	40.47	54.00	-13.53	AV
Horizontal	10480.59	59.51	8.46	38.57	44.50	62.04	68.20	-6.16	Pk
Horizontal	15720.18	59.11	10.12	38.38	44.10	63.51	74.00	-10.49	Pk
Horizontal	15720.18	40.96	10.12	38.38	44.10	45.36	54.00	-8.64	AV

Note:"802.11a(5.2G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	Tablet PC	Model Name. :	M87QF68B-T606
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.3G) - 802.11a		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5260 MHz)-Above 1G									
Vertical	4633.25	60.26	5.44	35.40	44.00	57.10	74.00	-16.90	Pk
Vertical	4633.25	40.09	5.74	35.40	44.00	37.24	54.00	-16.76	AV
Vertical	10520.12	59.36	8.26	39.75	44.50	62.88	68.20	-5.32	Pk
Vertical	15780.34	59.70	10.12	38.80	44.10	64.51	74.00	-9.49	Pk
Vertical	15780.34	40.98	9.62	38.80	42.70	46.70	54.00	-7.30	AV
Horizontal	4366.15	59.39	5.57	35.18	44.00	56.14	74.00	-17.86	Pk
Horizontal	4366.15	39.69	5.74	35.18	44.00	36.61	54.00	-17.39	AV
Horizontal	10520.26	59.70	8.38	38.71	44.50	62.29	68.20	-5.91	Pk
Horizontal	15780.34	59.31	9.88	38.38	44.10	63.47	74.00	-10.53	Pk
Horizontal	15780.34	39.17	9.94	38.38	44.10	43.39	54.00	-10.61	AV
middle Channel (5280 MHz)-Above 1G									
Vertical	4122.34	60.00	6.08	36.35	44.05	58.37	74.00	-15.63	Pk
Vertical	4122.34	39.82	6.39	36.35	44.05	38.51	54.00	-15.49	AV
Vertical	10560.19	59.42	8.28	37.88	44.51	61.07	68.20	-7.13	Pk
Vertical	15840.36	60.98	9.79	38.8	44.10	65.46	74.00	-8.54	Pk
Vertical	15840.36	40.03	9.70	38.8	42.70	45.83	54.00	-8.17	AV
Horizontal	3869.48	60.15	6.11	36.37	44.05	58.58	74.00	-15.42	Pk
Horizontal	3869.48	40.77	6.27	36.37	44.05	39.36	54.00	-14.64	AV
Horizontal	10560.74	59.34	8.33	38.64	44.50	61.81	68.20	-6.39	Pk
Horizontal	15840.37	59.67	9.99	38.38	44.10	63.94	74.00	-10.06	Pk
Horizontal	15840.37	39.90	9.81	38.38	44.10	43.99	54.00	-10.01	AV
High Channel (5320 MHz)-Above 1G									
Vertical	5366.52	60.86	6.96	37.24	43.50	61.56	74.00	-12.44	Pk
Vertical	5366.52	39.11	7.07	37.24	43.50	39.92	54.00	-14.08	AV
Vertical	10640.58	60.32	8.14	37.68	44.50	61.64	74.00	-12.36	Pk
Vertical	10640.58	39.31	8.35	37.68	44.50	40.84	54.00	-13.16	AV
Vertical	15960.41	40.58	10.11	38.8	44.10	45.39	74.00	-28.61	Pk
Vertical	15960.41	40.57	9.64	38.8	42.70	46.31	54.00	-7.69	AV
Horizontal	5436.59	60.04	7.05	37.24	43.50	60.83	74.00	-13.17	Pk
Horizontal	5436.59	39.61	7.05	37.24	43.50	40.40	54.00	-13.60	AV
Horizontal	10640.24	60.35	8.20	38.57	44.50	62.62	74.00	-11.38	Pk
Horizontal	10640.24	40.09	8.03	38.57	44.50	42.19	54.00	-11.81	AV

Note: 802.11a(5.3G) mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	Tablet PC	Model Name. :	M87QF68B-T606
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX(5.6G) - 802.11a		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5500 MHz)-Above 1G									
Vertical	5433.02	60.19	5.61	35.40	44.00	57.20	74.00	-16.80	Pk
Vertical	5433.02	50.96	5.76	35.40	44.00	48.12	54.00	-5.88	AV
Vertical	11000.25	60.71	8.24	39.75	44.50	64.20	74.00	-9.80	Pk
Vertical	11000.25	40.56	8.35	39.75	44.50	44.16	54.00	-9.84	AV
Vertical	16500.41	60.52	10.05	38.80	44.10	65.27	68.20	-2.93	Pk
Horizontal	5126.47	59.39	5.78	35.18	44.00	56.35	74.00	-17.65	Pk
Horizontal	5126.47	49.53	5.66	35.18	44.00	46.37	54.00	-7.63	AV
Horizontal	11000.32	59.76	8.22	38.71	44.50	62.20	74.00	-11.80	Pk
Horizontal	11000.32	40.40	8.14	38.71	44.50	42.75	54.00	-11.25	AV
Horizontal	16500.47	56.01	10.04	38.38	44.10	60.33	68.20	-7.87	Pk
Middle Channel (5600 MHz)-Above 1G									
Vertical	4933.25	60.49	6.29	36.35	44.05	59.07	74.00	-14.93	Pk
Vertical	4933.25	50.67	6.24	36.35	44.05	49.21	54.00	-4.79	AV
Vertical	11200.58	59.72	8.24	37.88	44.51	61.34	74.00	-12.66	Pk
Vertical	11200.58	40.46	8.13	37.88	44.51	41.96	54.00	-12.04	AV
Vertical	16800.45	60.48	9.71	38.80	44.10	64.89	68.20	-3.31	Pk
Horizontal	4766.32	59.58	6.44	36.37	44.05	58.34	74.00	-15.66	Pk
Horizontal	4766.32	50.01	6.13	36.37	44.05	48.47	54.00	-5.53	AV
Horizontal	11200.45	59.34	8.31	38.64	44.50	61.79	74.00	-12.21	Pk
Horizontal	11200.45	39.10	8.04	38.64	44.50	41.28	54.00	-12.72	AV
Horizontal	16800.33	57.12	10.09	38.38	44.10	61.48	68.20	-6.72	Pk
High Channel (5700 MHz)-Above 1G									
Vertical	5647.33	60.66	6.79	37.24	43.50	61.19	68.20	-7.01	Pk
Vertical	11400.29	59.44	8.10	37.68	44.50	60.72	74.00	-13.28	Pk
Vertical	11400.29	39.65	8.23	37.68	44.50	41.06	54.00	-12.94	AV
Vertical	17100.54	50.75	9.70	38.80	44.10	55.15	68.20	-13.05	Pk
Horizontal	5433.26	60.20	6.74	37.24	43.50	60.68	74.00	-13.32	Pk
Horizontal	5433.26	40.17	6.74	37.24	43.50	40.65	54.00	-13.35	AV
Horizontal	11400.43	50.29	8.25	38.57	44.50	52.61	74.00	-21.39	Pk
Horizontal	11400.43	40.13	8.35	38.57	44.50	42.55	54.00	-11.45	AV
Horizontal	17100.58	39.32	9.70	38.38	44.10	43.30	68.20	-24.90	Pk

Note:"802.11a(5.6G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

EUT :	Tablet PC	Model Name. :	M87QF68B-T606
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.8G) -- 802.11ac20		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector Type
(H/V)	(MHz)	(dBuV)	(dB)	dB/m	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
Low Channel (5745 MHz)-Above 1G									
Vertical	5122.51	59.11	5.94	35.40	44.00	56.45	74.00	-17.55	Pk
Vertical	5122.51	40.95	5.94	35.40	44.00	38.29	54.00	-15.71	AV
Vertical	11490.60	59.71	8.46	39.75	44.50	63.42	74.00	-10.58	Pk
Vertical	11490.60	39.19	8.46	39.75	44.50	42.90	54.00	-11.10	AV
Vertical	17235.65	40.73	10.12	38.80	44.10	45.55	68.20	-22.65	Pk
Horizontal	5166.60	60.68	5.94	35.18	44.00	57.80	68.20	-10.40	Pk
Horizontal	11490.47	49.92	8.46	38.71	44.50	52.59	74.00	-21.41	Pk
Horizontal	11490.47	40.98	8.46	38.71	44.50	43.65	54.00	-10.35	AV
Horizontal	17235.47	55.37	10.12	38.38	44.10	59.77	68.20	-8.43	Pk
middle Channel (5785 MHz)-Above 1G									
Vertical	5433.40	59.29	6.48	36.35	44.05	58.07	74.00	-15.93	Pk
Vertical	5433.40	40.26	6.48	36.35	44.05	39.04	54.00	-14.96	AV
Vertical	11570.41	59.80	8.47	37.88	44.51	61.64	74.00	-12.36	Pk
Vertical	11570.41	40.15	8.47	37.88	44.51	41.99	54.00	-12.01	AV
Vertical	17355.84	40.30	10.12	38.80	44.10	45.12	68.20	-23.08	Pk
Horizontal	4866.60	59.84	6.48	36.37	44.05	58.64	74.00	-15.36	Pk
Horizontal	4866.60	40.09	6.48	36.37	44.05	38.89	54.00	-15.11	AV
Horizontal	11570.28	59.28	8.47	38.64	44.50	61.89	74.00	-12.11	Pk
Horizontal	11570.28	40.76	8.47	38.64	44.50	43.37	54.00	-10.63	AV
Horizontal	17355.49	49.43	10.12	38.38	44.10	53.83	68.20	-14.37	Pk
High Channel (5825 MHz)-Above 1G									
Vertical	5244.48	60.25	7.10	37.24	43.50	61.09	68.20	-7.11	Pk
Vertical	11652.42	59.18	8.46	37.68	44.50	60.82	74.00	-13.18	Pk
Vertical	11652.42	39.77	8.46	37.68	44.50	41.41	54.00	-12.59	AV
Vertical	17473.74	50.01	10.12	38.80	44.10	54.83	68.20	-13.37	Pk
Horizontal	5285.29	60.42	7.10	37.24	43.50	61.26	68.20	-6.94	Pk
Horizontal	11652.67	60.65	8.46	38.57	44.50	63.18	74.00	-10.82	Pk
Horizontal	11652.67	39.50	8.46	38.57	44.50	42.03	54.00	-11.97	AV
Horizontal	17474.68	49.61	10.12	38.38	44.10	54.01	68.20	-14.19	Pk

Note:"802.11ac20 (5.8G)" mode is the worst mode. PK value is lower than the Average value limit, So average didn't record.
The amplitude of spurious emissions that are attenuated by more than 20dB below the permissible value has no need to be reported.
Emission level (dBuV/m) = 20 log Emission level (uV/m).
Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

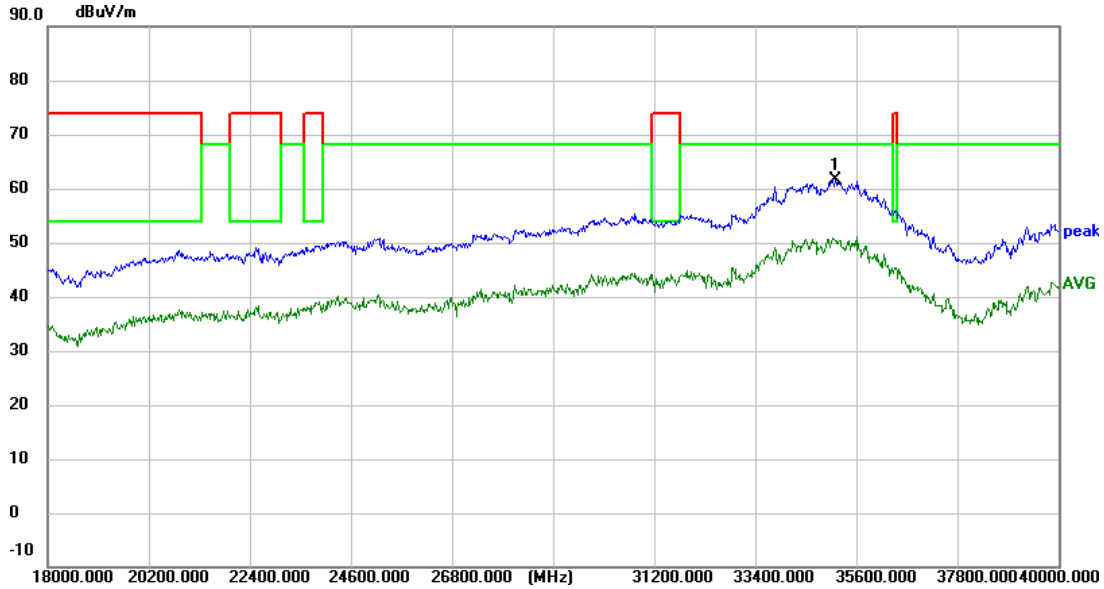
2.2.10 TEST RESULTS (18GHz-40GHz)

EUT :	Tablet PC	Model Name. :	M87QF68B-T606
Temperature :	25.3 ℃	Relative Humidity :	52%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.2G)-802.11a;TX (5.3G)-802.11a TX (5.6G)-802.11a;TX (5.8G)-802.11ac20		

All the modulation modes have been tested, and the worst result was report as below:

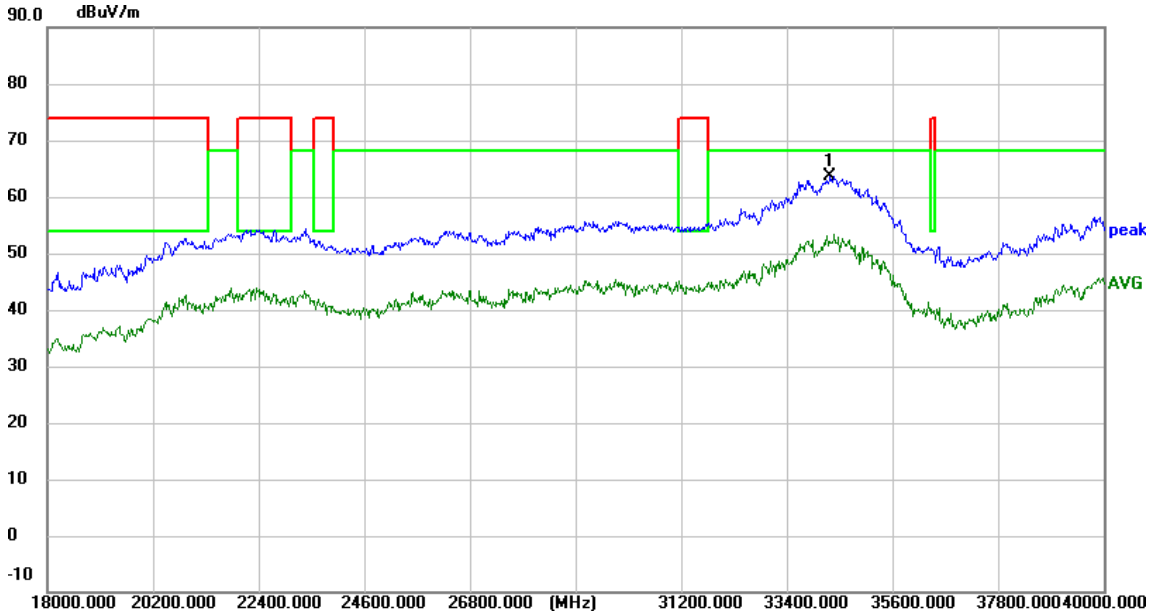
Low Channel (5180 MHz)-Above 1G

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	35166.600	58.40	3.19	61.59	68.20	-6.61	peak

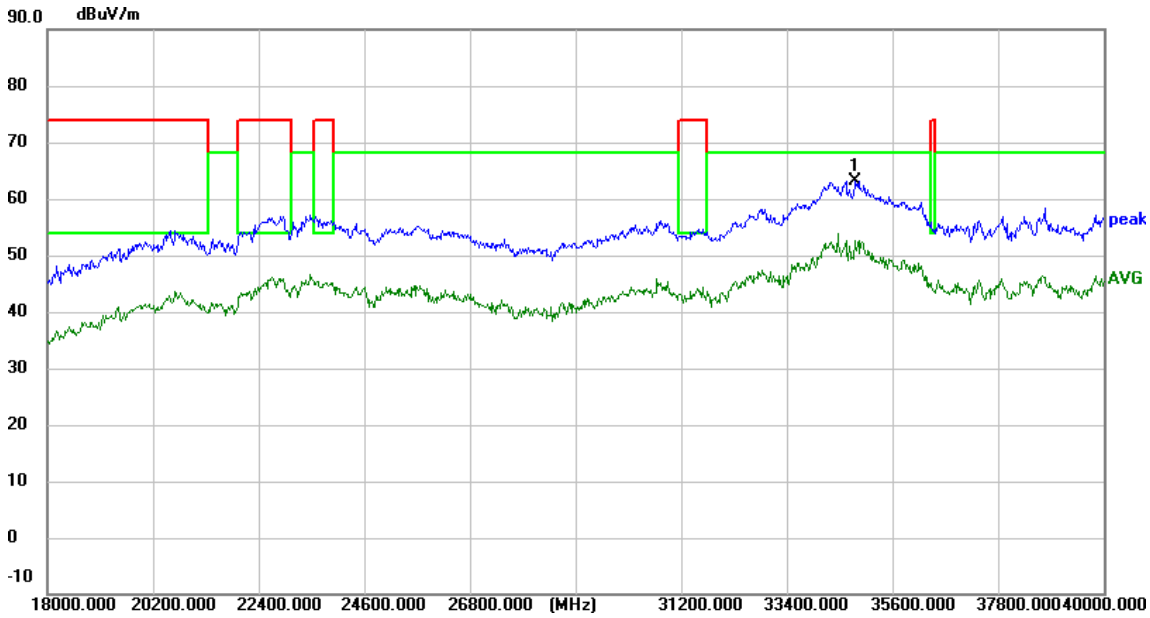
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34307.133	62.04	1.69	63.73	68.20	-4.47	peak

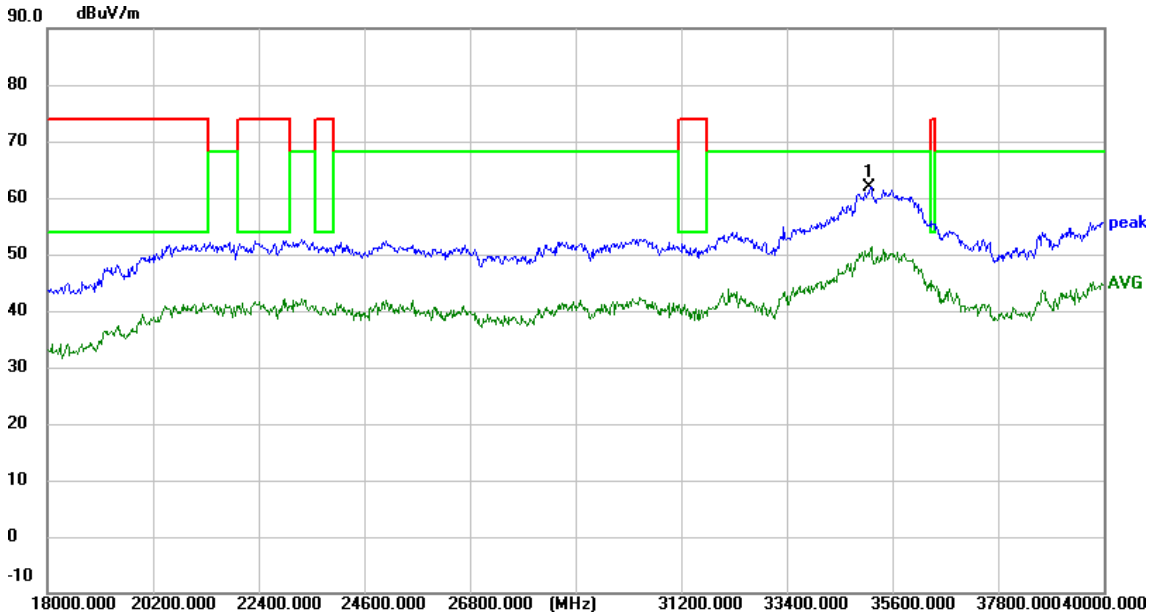
High Channel (5240 MHz)-Above 1G

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34854.200	59.79	3.36	63.15	68.20	-5.05	peak

Vertical

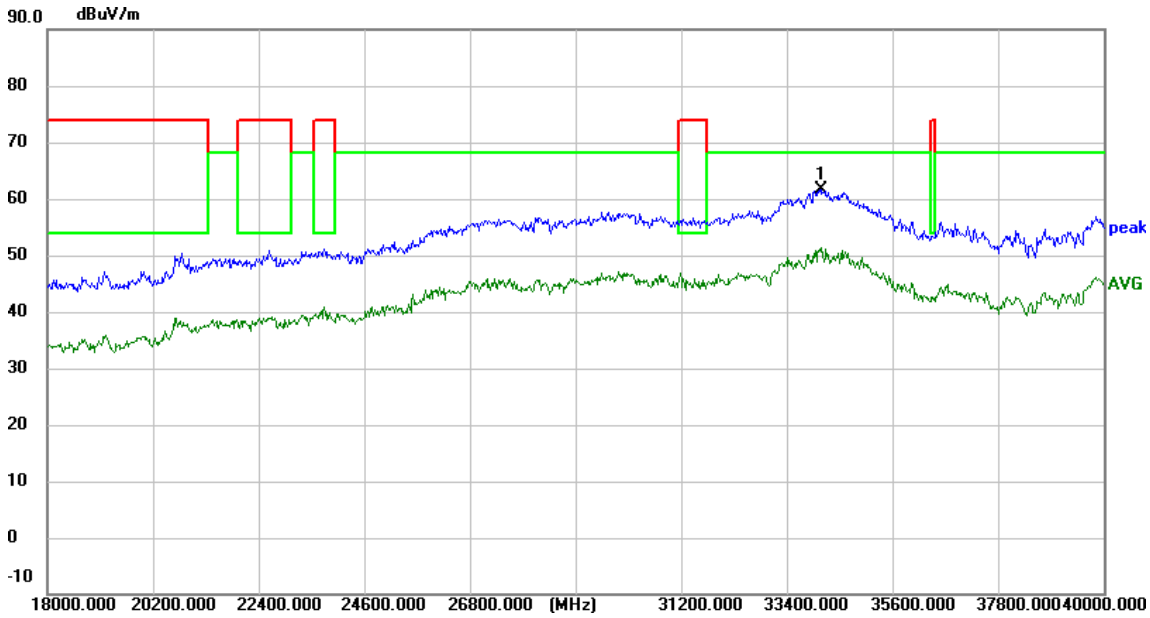


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	35158.533	58.77	3.21	61.98	68.20	-6.22	peak

Note:802.11a mode is the worst mode.

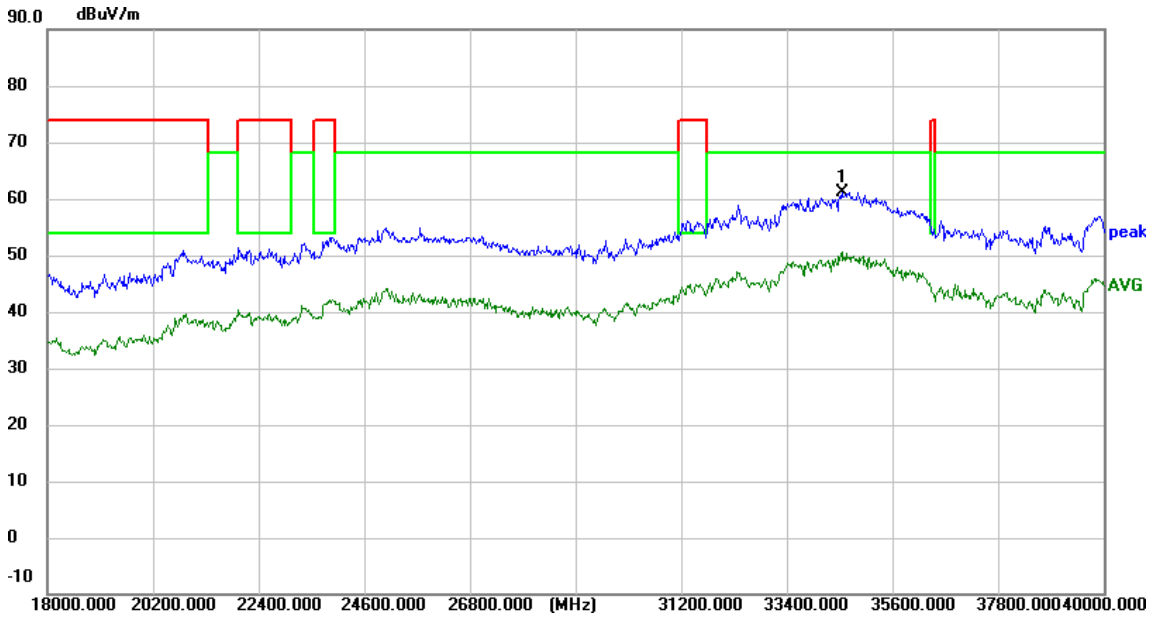
Low Channel (5260 MHz)-Above 1G

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34155.333	60.54	1.16	61.70	68.20	-6.50	peak

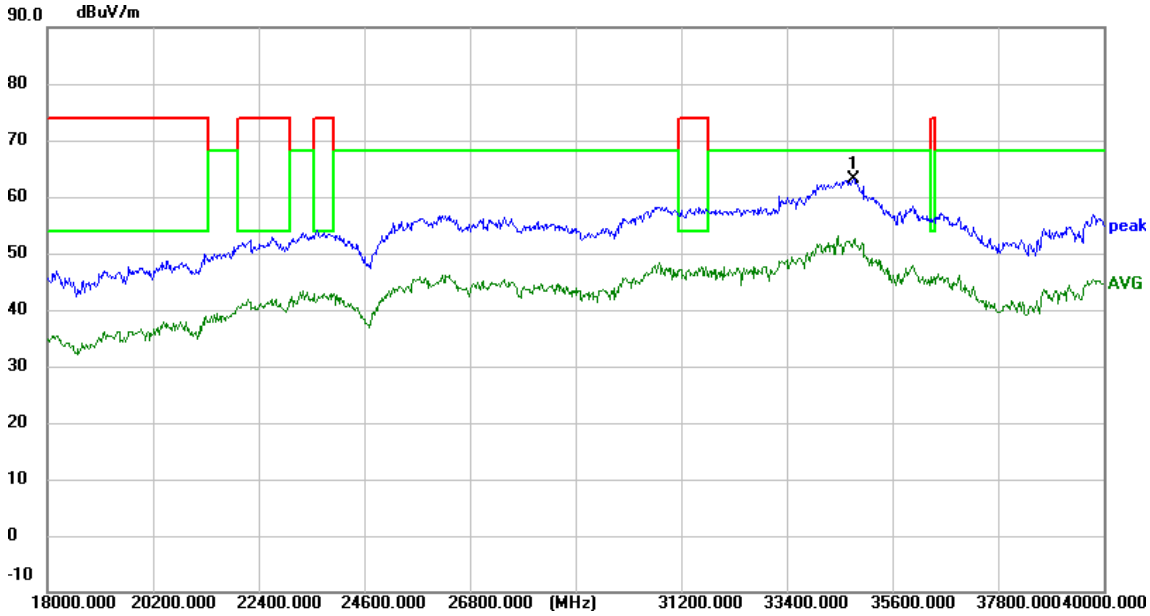
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34579.200	58.47	2.68	61.15	68.20	-7.05	peak

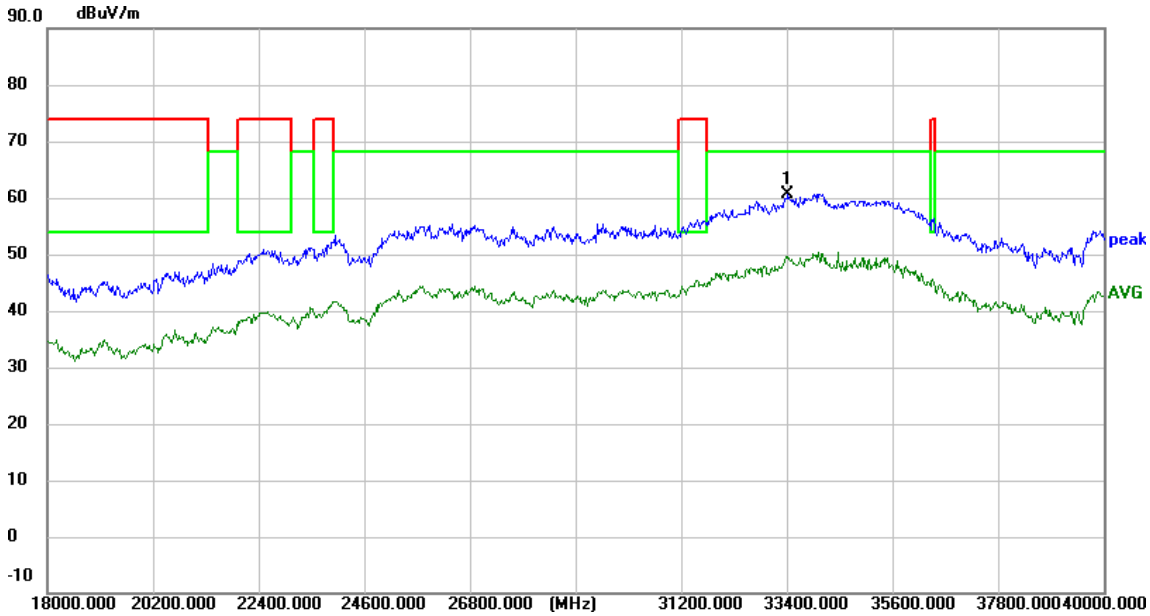
High Channel (5320 MHz)-Above 1G

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34801.400	60.04	3.20	63.24	68.20	-4.96	peak

Vertical

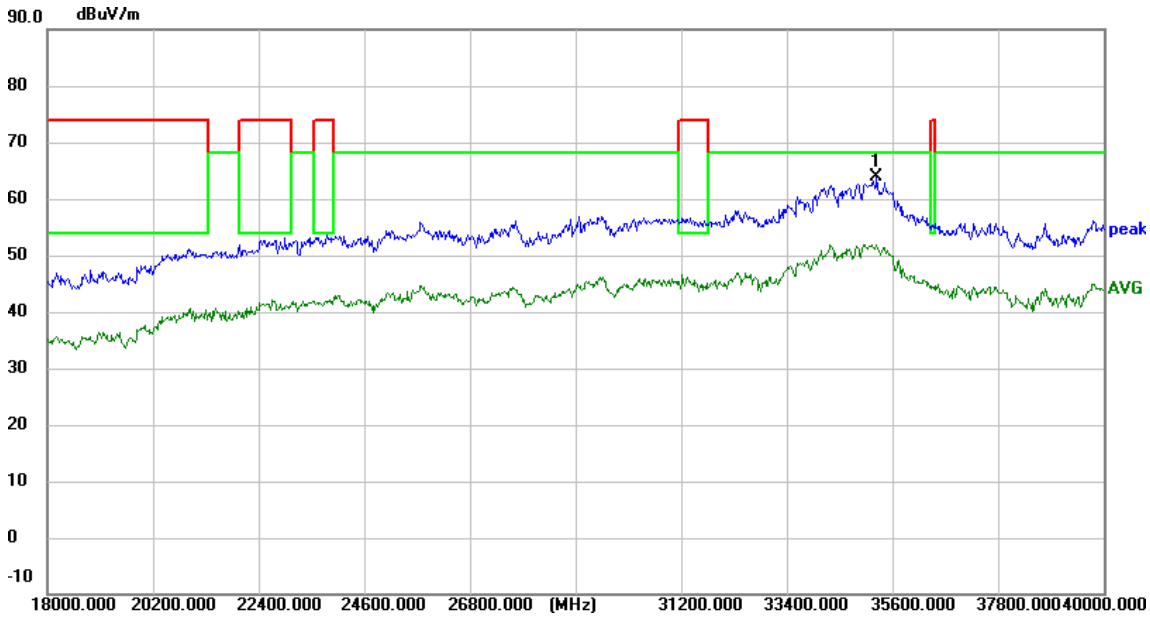


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	33433.733	61.66	-0.93	60.73	68.20	-7.47	peak

Note:802.11a mode is the worst mode.

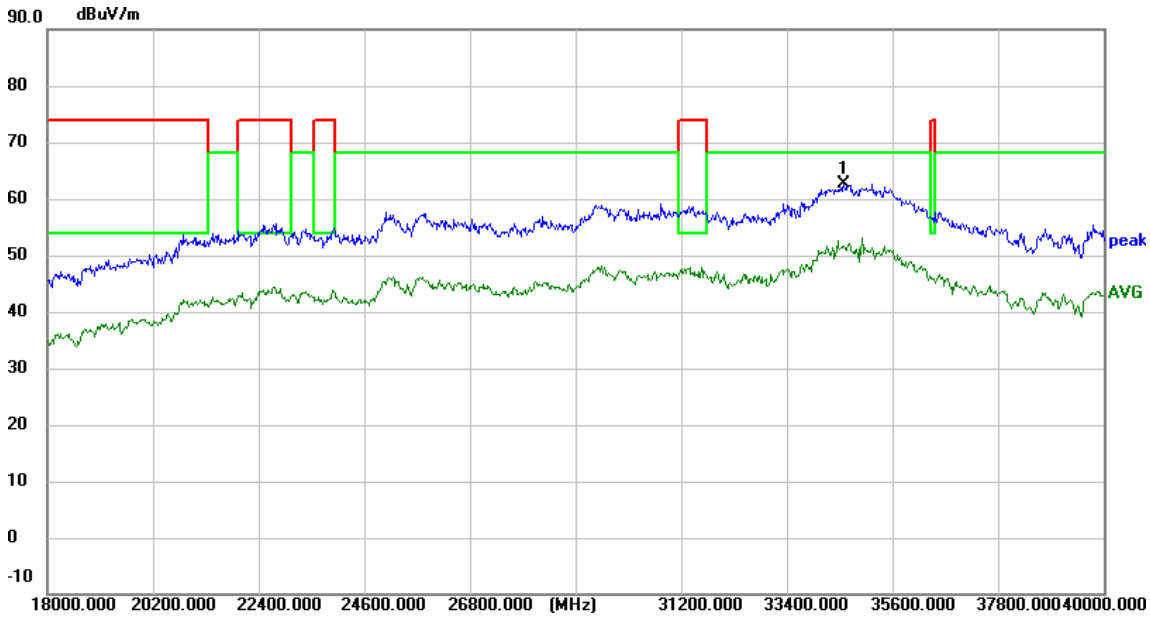
Low Channel (5500 MHz)-Above 1G

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	35302.267	60.92	2.84	63.76	68.20	-4.44	peak

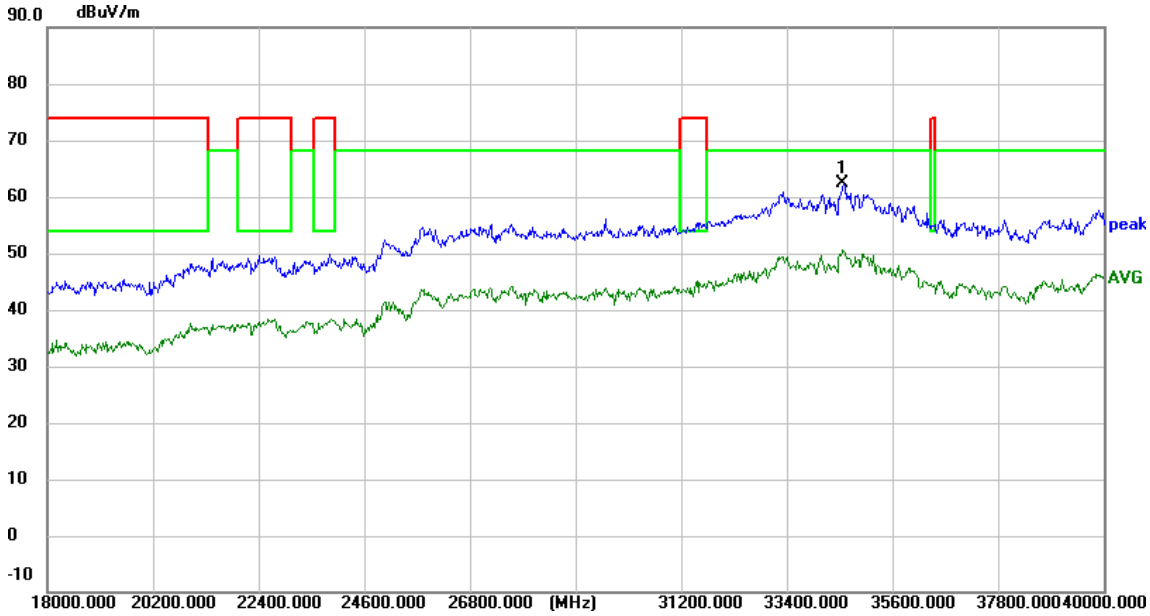
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34596.800	59.90	2.71	62.61	68.20	-5.59	peak

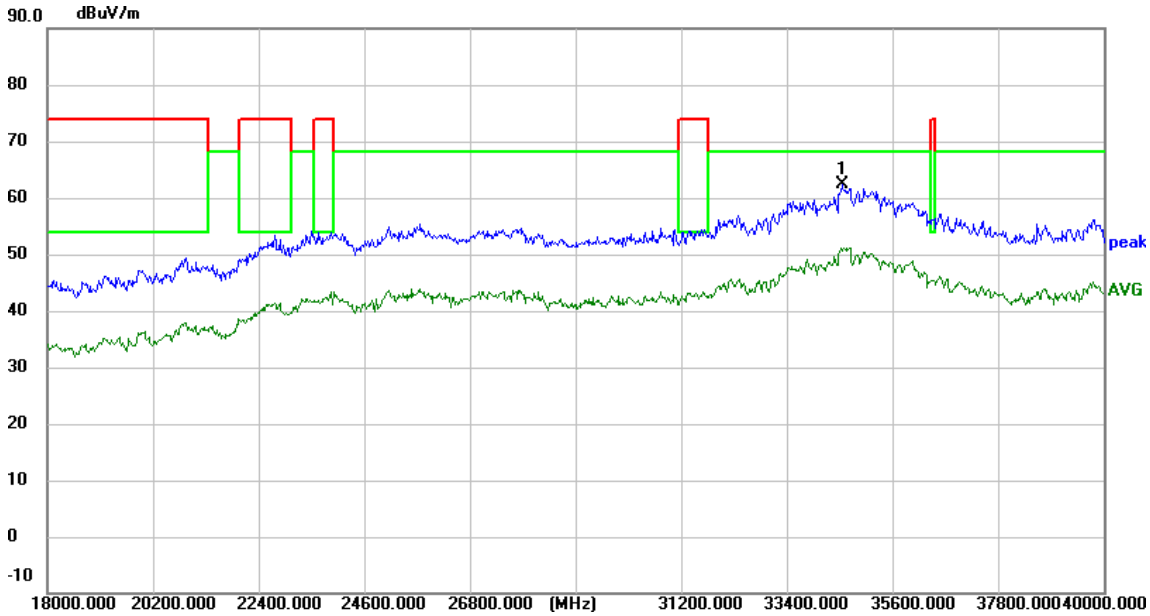
High Channel (5700 MHz)-Above 1G

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34597.533	59.74	2.71	62.45	68.20	-5.75	peak

Vertical

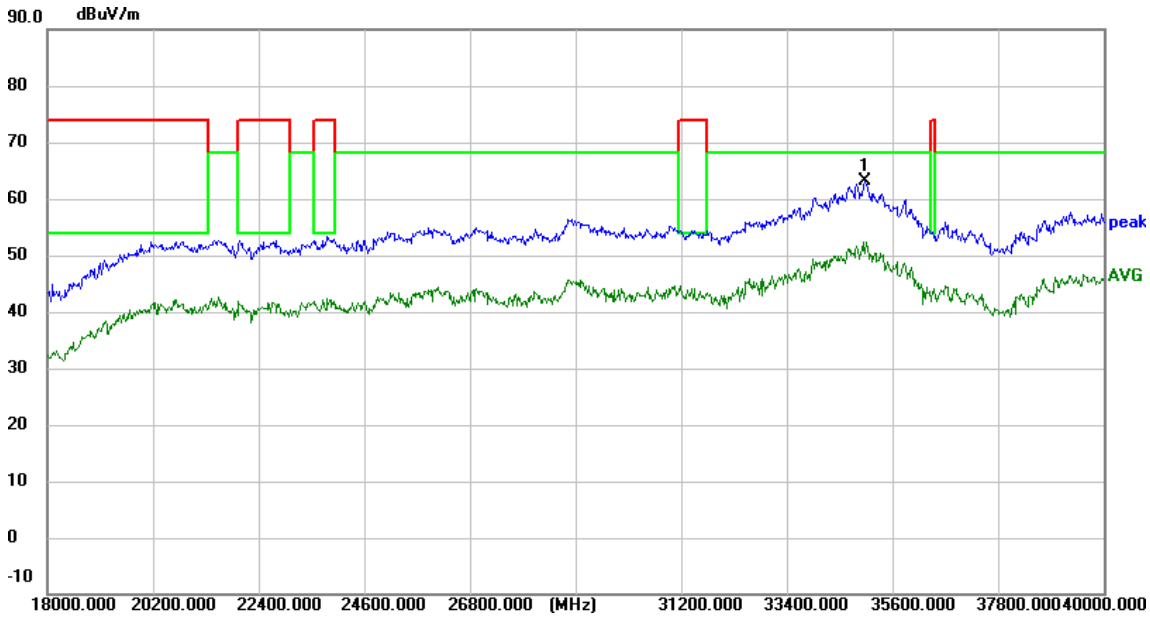


No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34570.400	59.75	2.65	62.40	68.20	-5.80	peak

Note:802.11a mode is the worst mode.

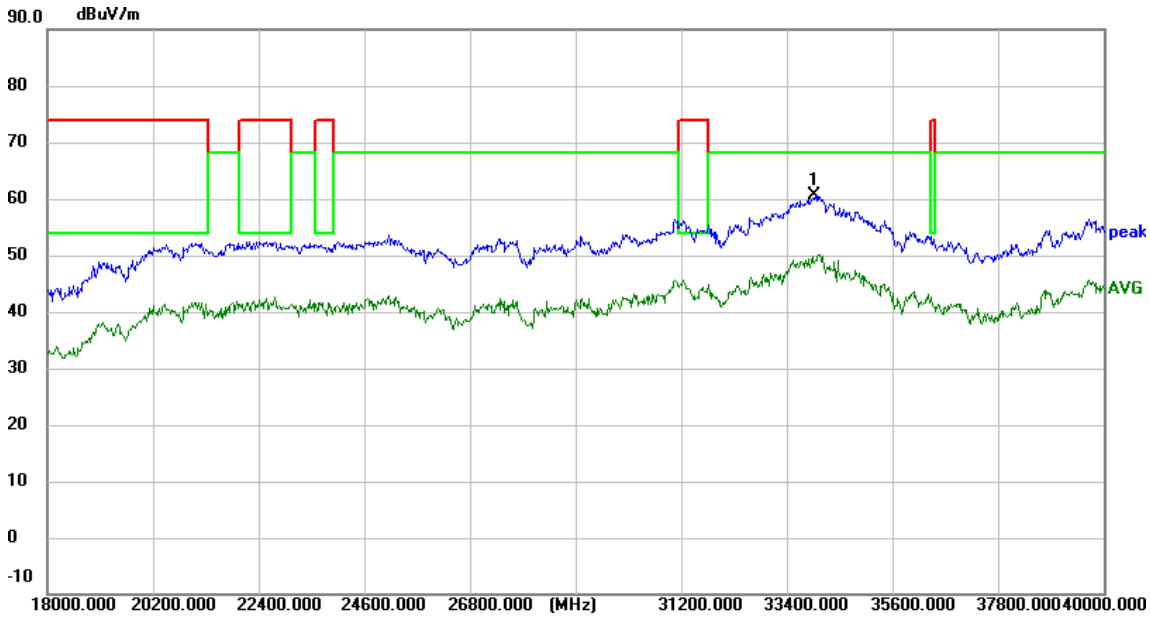
Low Channel (5745 MHz)-Above 1G

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	35036.800	59.44	3.66	63.10	68.20	-5.10	peak

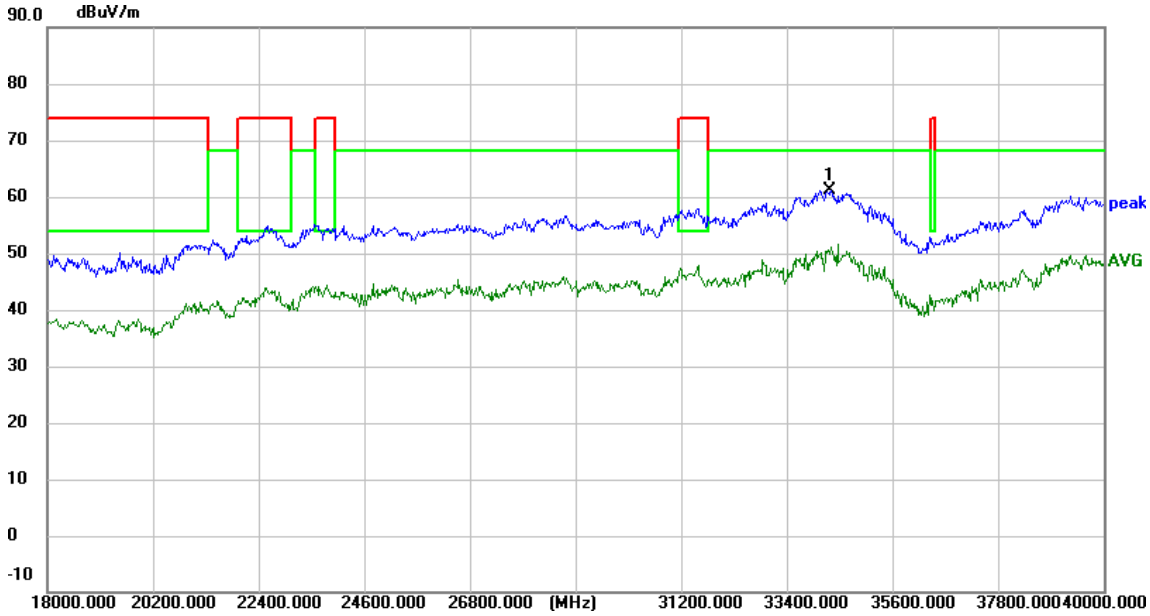
Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	33999.133	59.96	0.70	60.66	68.20	-7.54	peak

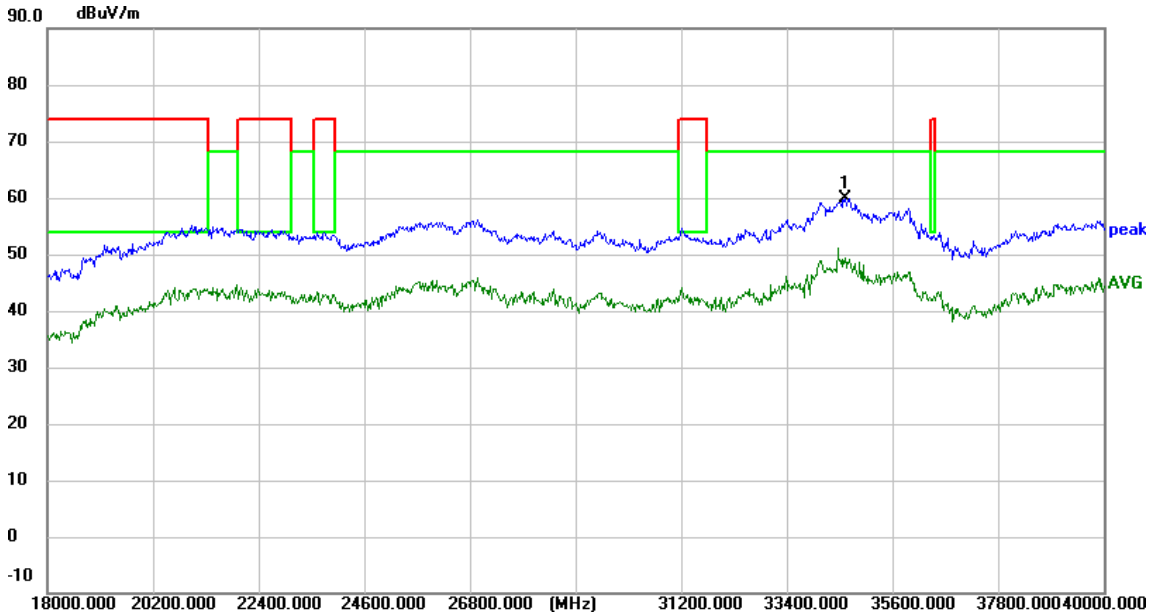
High Channel (5825 MHz)-Above 1G

Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34335.733	59.36	1.81	61.17	68.20	-7.03	peak

Vertical



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.
1	34618.067	57.09	2.75	59.84	68.20	-8.36	peak

Note:802.11ac20 mode is the worst mode.

2.2.10 Spurious Emission in Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5.2G)-802.11a		

All the modulation modes have been tested, The report just record the worst data mode.

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel (5180 MHz)									
4500	68.13	3.615	32.6	43.25	61.10	74	-12.90	Pk	Horizontal
4500	42.29	3.615	32.6	43.25	35.25	54	-18.75	AV	Horizontal
4500	67.94	3.615	32.6	43.25	60.91	74	-13.09	Pk	Vertical
4500	37.61	3.615	32.6	43.25	30.58	54	-23.42	AV	Vertical
5150	68.63	3.911	34.6	43.27	63.87	74	-10.13	Pk	Horizontal
5150	37.78	3.911	34.6	43.27	33.02	54	-20.98	AV	Horizontal
5150	68.40	3.911	34.6	43.27	63.64	74	-10.36	Pk	Vertical
5150	48.96	3.911	34.6	43.27	44.20	54	-9.80	AV	Vertical
High Channel (5240 MHz)									
5350	67.70	3.939	33.7	43.23	62.11	74	-11.89	Pk	Vertical
5350	39.96	3.939	33.7	43.23	34.37	54	-19.63	AV	Vertical
5350	67.79	3.939	33.7	43.23	62.20	74	-11.80	Pk	Horizontal
5350	43.86	3.939	33.7	43.23	38.27	54	-15.73	AV	Horizontal

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor

(2) “802.11a ” mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

EUT :	Tablet PC	Model Name. :	M87QF68B-T606
Temperature :	25 ℃	Relative Humidity :	56%
Pressure :	1010 hPa	Test Voltage :	DC 3.8V
Test Mode :	TX (5.3G)-802.11a		

All the modulation modes have been tested, The report just record the worst data mode.

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
High Channel (5320 MHz)-Above 1G									
5350	72.58	3.94	33.7	43.23	66.99	74	-7.01	Pk	Horizontal
5350	52.91	3.94	33.7	43.23	47.32	54	-6.68	AV	Horizontal
5350	71.51	3.94	33.7	43.23	65.92	74	-8.08	Pk	Vertical
5350	48.72	3.94	33.7	43.23	43.13	54	-10.87	AV	Vertical

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
(2) “802.11a ” mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1010 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5.6G)-802.11a		

All the modulation modes have been tested, The report just record the worst data mode.

Frequency	Meter Reading	Cable Loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Detector	Comment
(MHz)	(dBμV)	(dB)	dB/m	(dB)	(dBμV/m)	(dBμV/m)	(dB)	Type	
Low Channel (5500 MHz)-Above 1G									
5460	72.42	3.95	34.56	43.21	67.72	74	-6.28	Pk	Vertical
5460	52.57	3.95	34.56	43.21	47.87	54	-6.13	AV	Vertical
5460	71.23	3.95	34.56	43.21	66.53	74	-7.47	Pk	Horizontal
5460	48.47	3.95	34.56	43.21	43.77	54	-10.23	AV	Horizontal

Note: (1) Emission Level= Antenna Factor + Cable Loss + Read Level - Preamp Factor
(2) “802.11a ” mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

3. POWER SPECTRAL DENSITY TEST

3.1 APPLIED PROCEDURES / LIMIT

According to FCC §15.407(a)

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 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, 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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3.2 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 ≥ 1/T, where T is defined in section II.B.I.a).

b) Set VBW ≥ 3 RBW.

c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10log(500kHz/RBW) to the measured result, whereas RBW (< 500 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 10log(1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.

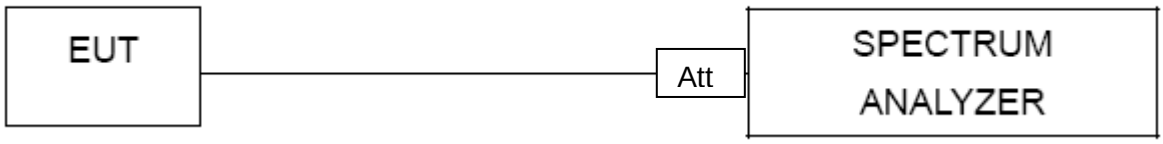
e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

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 KHZ is available on nearly all spectrum analyzers.

3.3 DEVIATION FROM STANDARD

No deviation.

3.4 TEST SETUP



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.

3.6 TEST RESULTS

EUT：	Tablet PC	Model Name ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1015 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 2C (5470-5725MHz), Band 3 (5745-5825MHz)		

Test data reference attachment.

4. 26DB & 99% EMISSION BANDWIDTH

4.1 APPLIED PROCEDURES / LIMIT

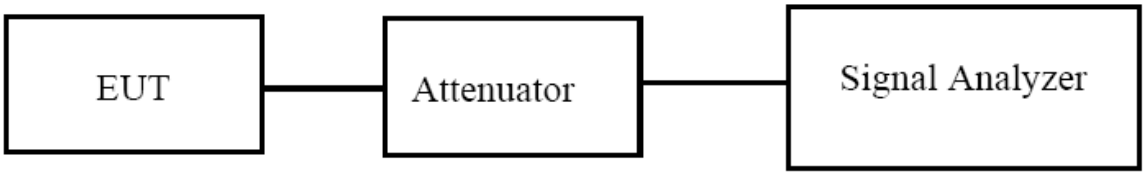
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band 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.

4.2 TEST PROCEDURE

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = Peak.
d) Trace mode = max hold.
e) Measure the maximum width of the emission that is 26 dB down from the maximum of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

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

1. Set center frequency to the nominal EUT channel center frequency.
2. Set span = 1.5 times to 5.0 times the OBW.
3. Set RBW = 1 % to 5 % of the OBW
4. Set VBW ≥ 3 · RBW
5. 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.
6. Use the 99 % power bandwidth function of the instrument (if available).
7. 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.



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.

4.4 TEST RESULTS

EUT：	Tablet PC	Model Name ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 2C(5470-5725MHz), Band 3(5725-5850MHz)		

Test data reference attachment.

5. MINIMUM 6 DB BANDWIDTH

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.

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) ≥ 3 × RBW.

c) Detector = Peak.

d) Trace mode = max hold.

e) Sweep = auto couple.

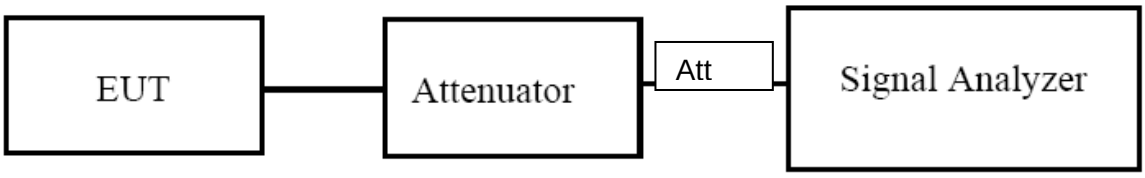
f) Allow the trace to stabilize.

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.

5.3 DEVIATION FROM STANDARD

No deviation.

5.4 TEST SETUP



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.

5.6 TEST RESULTS

EUT：	Tablet PC	Model Name ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5G) Mode Frequency Band 3 (5725-5850MHz)		

Test data reference attachment.

6. MAXIMUM CONDUCTED OUTPUT POWER

6.1 PPLIED PROCEDURES / LIMIT

According to FCC §15.407

The maximum conduced 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

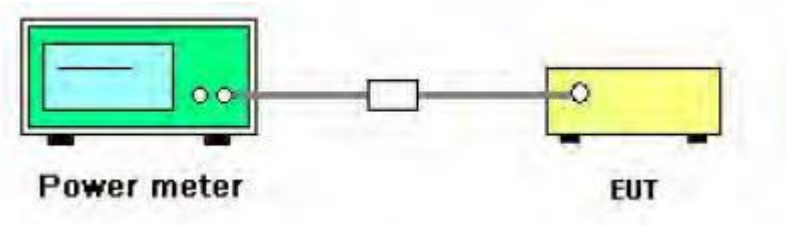
6.2 TEST PROCEDURE

· Method PM-G is measurement using a gated RF average power meter. Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no dutycycle correction factor is required.

6.3 DEVIATION FROM STANDARD

No deviation.

6.4 TEST SETUP



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.

6.2 TEST RESULTS

EUT：	Tablet PC	Model Name ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX (5G) Mode Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz) Band 2C, (5470-5725MHz), Band 3 (5725-5850MHz)		

Test data reference attachment.

7. OUT OF BAND EMISSIONS

7.1 APPLICABLE STANDARD

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(1)(2)(3)(4) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(2) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(4) For transmitters operating in the 5.725-5.85 GHz band:
(i) All emissions shall be limited to a level of −27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

7.2 TEST PROCEDURE

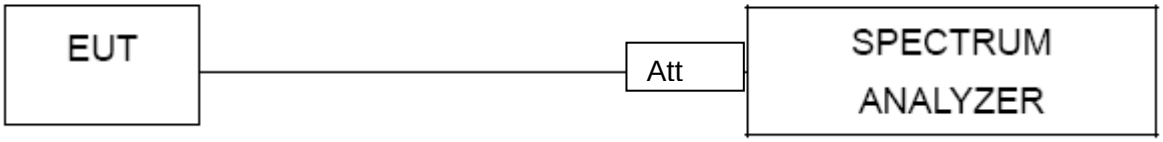
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

7.3 DEVIATION FROM STANDARD

No deviation.

7.4 TEST SETUP



7.5 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.

7.6 TEST RESULTS

EUT：	Tablet PC	Model Name ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.8V

Test data reference attachment.

8. Frequency Stability Measurement

8.1 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.

8.2 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. fc is declaring of channel frequency. Then the frequency error formula is (fc-f)/fc × 10_6 ppm.

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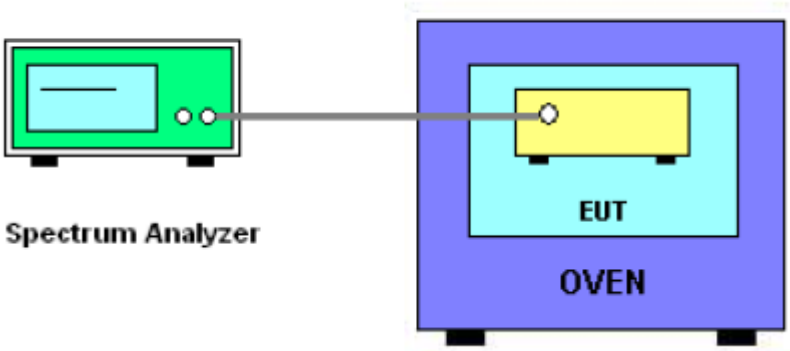
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is -20°C~70°C.

8.3 TEST SETUP LAYOUT



8.4 EUT OPERATION DURING TEST

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

8.5 TEST RESULTS

EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band I (5150-5250MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5180.0027	5180	0.0027	0.5116
		V max (V)	4.37	5180.0005	5180	0.0005	0.0904
		V min (V)	3.23	5180.0080	5180	0.0080	1.5446
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5180MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5180.0029	5180	0.0029	0.5595
		T (°C)	-10	5180.0085	5180	0.0085	1.6391
		T (°C)	0	5180.0070	5180	0.0070	1.3538
		T (°C)	10	5180.0009	5180	0.0009	0.1706
		T (°C)	20	5180.0034	5180	0.0034	0.6507
		T (°C)	30	5180.0029	5180	0.0029	0.5609
		T (°C)	40	5180.0002	5180	0.0002	0.0398
		T (°C)	50	5180.0049	5180	0.0049	0.9481
		T (°C)	60	5180.0017	5180	0.0017	0.3309
		T (°C)	70	5180.0024	5180	0.0024	0.4609
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5200.0049	5200	0.0049	0.9425
		V max (V)	4.37	5200.0051	5200	0.0051	0.9718
		V min (V)	3.23	5200.0092	5200	0.0092	1.7623
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5200MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5200.0090	5200	0.0090	1.7362
		T (°C)	-10	5200.0080	5200	0.0080	1.5321
		T (°C)	0	5200.0035	5200	0.0035	0.6793
		T (°C)	10	5200.0081	5200	0.0081	1.5619
		T (°C)	20	5200.0077	5200	0.0077	1.4745
		T (°C)	30	5200.0011	5200	0.0011	0.2063
		T (°C)	40	5200.0034	5200	0.0034	0.6577
		T (°C)	50	5200.0006	5200	0.0006	0.1193
		T (°C)	60	5200.0051	5200	0.0051	0.9786
		T (°C)	70	5200.0004	5200	0.0004	0.0813
Limits				Within 5150-5250MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5240.0075	5240	0.0075	1.4261
		V max (V)	4.37	5240.0051	5240	0.0051	0.9648
		V min (V)	3.23	5240.0080	5240	0.0080	1.5330
Limits				Within 5150-5250MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5240MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5240.0076	5240	0.0076	1.4410
		T (°C)	-10	5240.0084	5240	0.0084	1.6104
		T (°C)	0	5240.0011	5240	0.0011	0.2054
		T (°C)	10	5240.0064	5240	0.0064	1.2239
		T (°C)	20	5240.0069	5240	0.0069	1.3225
		T (°C)	30	5240.0008	5240	0.0008	0.1438
		T (°C)	40	5240.0035	5240	0.0035	0.6640
		T (°C)	50	5240.0039	5240	0.0039	0.7439
		T (°C)	60	5240.0077	5240	0.0077	1.4660
		T (°C)	70	5240.0093	5240	0.0093	1.7822
Limits				Within 5150-5250MHz			
Result				Complies			

EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency Band 2A (5250-5350MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5260.0086	5260	0.00858	1.6305
		V max (V)	4.37	5260.0073	5260	0.00726	1.3811
		V min (V)	3.23	5260.0030	5260	0.00298	0.5659
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5260MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5260.0089	5260	0.00885	1.6831
		T (°C)	-10	5260.0072	5260	0.00724	1.3767
		T (°C)	0	5260.0039	5260	0.00390	0.7409
		T (°C)	10	5260.0004	5260	0.00039	0.0742
		T (°C)	20	5260.0084	5260	0.00836	1.5903
		T (°C)	30	5260.0079	5260	0.00786	1.4945
		T (°C)	40	5260.0072	5260	0.00717	1.3630
		T (°C)	50	5260.0034	5260	0.00337	0.6401
		T (°C)	60	5260.0074	5260	0.00738	1.4025
		T (°C)	70	5260.0008	5260	0.00075	0.1434
Limits				Within 5250-5350MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5280.0037	5280	0.00373	0.7057
		V max (V)	4.37	5280.0015	5280	0.00154	0.2919
		V min (V)	3.23	5280.0088	5280	0.00876	1.6592
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5280MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5280.0005	5280	0.00050	0.0944
		T (°C)	-10	5280.0071	5280	0.00710	1.3439
		T (°C)	0	5280.0025	5280	0.00250	0.4744
		T (°C)	10	5280.0059	5280	0.00593	1.1240
		T (°C)	20	5280.0043	5280	0.00435	0.8234
		T (°C)	30	5280.0040	5280	0.00403	0.7638
		T (°C)	40	5280.0039	5280	0.00389	0.7365
		T (°C)	50	5280.0027	5280	0.00267	0.5055
		T (°C)	60	5280.0081	5280	0.00813	1.5391
		T (°C)	70	5280.0001	5280	0.00008	0.0144
Limits				Within 5250-5350MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5320.0092	5320	0.00921	1.7310
		V max (V)	4.37	5320.0037	5320	0.00373	0.7011
		V min (V)	3.23	5320.0034	5320	0.00336	0.6324
Limits				Within 5250-5350MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5320MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5320.0048	5320	0.00482	0.9058
		T (°C)	-10	5320.0006	5320	0.00065	0.1221
		T (°C)	0	5320.0057	5320	0.00570	1.0717
		T (°C)	10	5320.0081	5320	0.00814	1.5300
		T (°C)	20	5320.0019	5320	0.00193	0.3621
		T (°C)	30	5320.0064	5320	0.00642	1.2067
		T (°C)	40	5320.0070	5320	0.00704	1.3232
		T (°C)	50	5320.0062	5320	0.00615	1.1565
		T (°C)	60	5320.0020	5320	0.00196	0.3679
		T (°C)	70	5320.0087	5320	0.00874	1.6435
Limits				Within 5250-5350MHz			
Result				Complies			

EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.8V
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)	3.8	5500.0083	5500	0.00828	1.5056
		V max (V)	4.37	5500.0083	5500	0.00834	1.5170
		V min (V)	3.23	5500.0076	5500	0.00761	1.3836
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)	3.8	T (°C)	-20	5500.0057	5500	0.00569	1.0353
		T (°C)	-10	5500.0098	5500	0.00985	1.7902
		T (°C)	0	5500.0008	5500	0.00075	0.1367
		T (°C)	10	5500.0040	5500	0.00400	0.7275
		T (°C)	20	5500.0033	5500	0.00331	0.6025
		T (°C)	30	5500.0012	5500	0.00121	0.2204
		T (°C)	40	5500.0014	5500	0.00139	0.2531
		T (°C)	50	5500.0032	5500	0.00318	0.5783
		T (°C)	60	5500.0009	5500	0.00090	0.1639
		T (°C)	70	5500.0054	5500	0.00537	0.9773
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)	3.8	5600.0019	5600	0.00188	0.3356
		V max (V)	4.37	5600.0026	5600	0.00262	0.4671
		V min (V)	3.23	5600.0030	5600	0.00297	0.5312
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)	3.8	T (°C)	-20	5600.0049	5600	0.00494	0.8826
		T (°C)	-10	5600.0082	5600	0.00825	1.4730
		T (°C)	0	5600.0077	5600	0.00773	1.3805
		T (°C)	10	5600.0041	5600	0.00414	0.7397
		T (°C)	20	5600.0081	5600	0.00808	1.4435
		T (°C)	30	5600.0090	5600	0.00899	1.6045
		T (°C)	40	5600.0033	5600	0.00329	0.5875
		T (°C)	50	5600.0055	5600	0.00547	0.9761
		T (°C)	60	5600.0077	5600	0.00769	1.3731
		T (°C)	70	5600.0023	5600	0.00230	0.4116
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)	3.8	5700.0001	5700	0.00007	0.0115
		V max (V)	4.37	5700.0050	5700	0.00504	0.8840
		V min (V)	3.23	5700.0048	5700	0.00478	0.8380
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)	3.8	T (°C)	-20	5700.0029	5700	0.00286	0.5013
		T (°C)	-10	5700.0012	5700	0.00121	0.2127
		T (°C)	0	5700.0030	5700	0.00298	0.5220
		T (°C)	10	5700.0079	5700	0.00787	1.3804
		T (°C)	20	5700.0085	5700	0.00853	1.4963
		T (°C)	30	5700.0066	5700	0.00658	1.1550
		T (°C)	40	5700.0058	5700	0.00579	1.0156
		T (°C)	50	5700.0063	5700	0.00628	1.1009
		T (°C)	60	5700.0052	5700	0.00518	0.9080
		T (°C)	70	5700.0006	5700	0.00060	0.1056
Limits				Within 5470-5725MHz			
Result				Complies			

EUT：	Tablet PC	Model Name. ：	M87QF68B-T606
Temperature：	25 ℃	Relative Humidity：	56%
Pressure：	1012 hPa	Test Voltage ：	DC 3.8V
Test Mode ：	TX Frequency(5745-5850MHz)		

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5745.0072	5745	0.00718	1.2501
		V max (V)	4.37	5745.0047	5745	0.00466	0.8106
		V min (V)	3.23	5745.0064	5745	0.00637	1.1091
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5745.0022	5745	0.00219	0.3809
		T (°C)	-10	5745.0066	5745	0.00663	1.1542
		T (°C)	0	5745.0098	5745	0.00984	1.7133
		T (°C)	10	5745.0082	5745	0.00815	1.4195
		T (°C)	20	5745.0069	5745	0.00688	1.1980
		T (°C)	30	5745.0076	5745	0.00756	1.3156
		T (°C)	40	5745.0075	5745	0.00754	1.3132
		T (°C)	50	5745.0096	5745	0.00957	1.6652
		T (°C)	60	5745.0067	5745	0.00673	1.1719
		T (°C)	70	5745.0053	5745	0.00529	0.9215
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5785.0026	5785	0.00258	0.4457
		V max (V)	4.37	5785.0098	5785	0.00984	1.7013
		V min (V)	3.23	5785.0028	5785	0.00279	0.4823
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5785MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5785.0055	5785	0.00545	0.9424
		T (°C)	-10	5785.0088	5785	0.00875	1.5132
		T (°C)	0	5785.0030	5785	0.00302	0.5227
		T (°C)	10	5785.0018	5785	0.00183	0.3164
		T (°C)	20	5785.0054	5785	0.00536	0.9269
		T (°C)	30	5785.0018	5785	0.00176	0.3048
		T (°C)	40	5785.0035	5785	0.00353	0.6106
		T (°C)	50	5785.0042	5785	0.00420	0.7267
		T (°C)	60	5785.0075	5785	0.00752	1.2996
		T (°C)	70	5785.0025	5785	0.00254	0.4384
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	3.8	5825.0052	5825	0.00521	0.8944
		V max (V)	4.37	5825.0062	5825	0.00622	1.0680
		V min (V)	3.23	5825.0042	5825	0.00420	0.7212
Limits				Within 5745-5850MHz			
Result				Complies			

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency：5825MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	3.8	T (°C)	-20	5825.0062	5825	0.00619	1.0622
		T (°C)	-10	5825.0047	5825	0.00469	0.8055
		T (°C)	0	5825.0043	5825	0.00428	0.7356
		T (°C)	10	5825.0001	5825	0.00009	0.0157
		T (°C)	20	5825.0038	5825	0.00377	0.6476
		T (°C)	30	5825.0090	5825	0.00903	1.5508
		T (°C)	40	5825.0030	5825	0.00303	0.5205
		T (°C)	50	5825.0090	5825	0.00896	1.5380
		T (°C)	60	5825.0086	5825	0.00864	1.4831
		T (°C)	70	5825.0082	5825	0.00820	1.4075
Limits				Within 5745-5850MHz			
Result				Complies			

9. DYNAMIC FREQUENCY SELECTION(DFS)

9.1 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.

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

Maximum Transmit Power	Value (see notes 1, 2, and 3)
EIRP ≥ 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.

9.3 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.

9.4 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	$\text{Roundup}\left\{\left(\frac{1}{360}\right)\cdot\left(\frac{19\cdot10^6}{\text{PRI}_{\mu sec}}\right)\right\}$	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.

9.5 CALIBRATION SETUP AND DFS TEST RESULTS

Radar Waveform Calibration Procedure

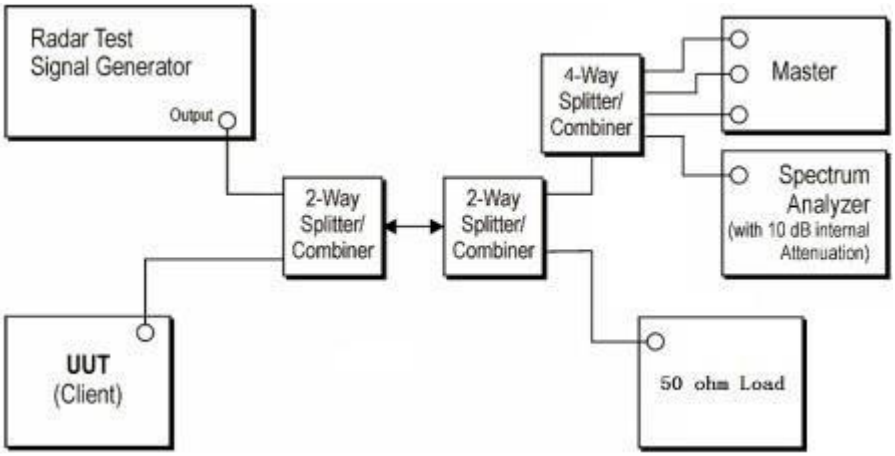
1) A 50 ohm load is connected in place of the spectrum analyzer, and the spectrum analyzer is connected to place of the master

2) The interference Radar Detection Threshold Level is -62dBm - 2dBi +1dB = -63dBm 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 -62dBm - 2dBi +1dB = -63dBm. Capture the spectrum analyzer plots on short pulse radar waveform.

9.6 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.

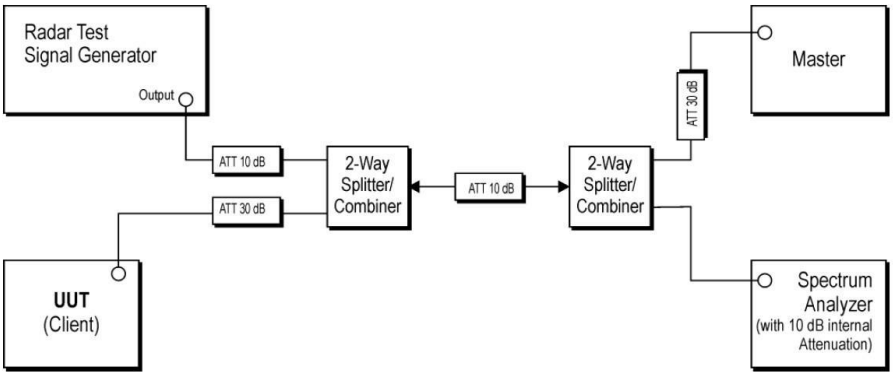
9.7 RADAR WAVEFORM CALIBRATION RESULT

Test data reference attachment.

9.8 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 X 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)
ac80	5290
ac80	5530
n40	5310
n40	5510
a	5320
a	5500

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

Test data reference attachment.

10. ANTENNA REQUIREMENT

10.1 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.

10.2 EUT ANTENNA

The EUT antenna is permanent attached FPC Antenna(Gain:2.88dBi). It comply with the standard requirement.

END OF REPORT