

FCC RADIO TEST REPORT

FCC ID: 2BQK4FT185I5CAPOBK

Product: AI shopping desktop Kiosk

Trade Mark: faytech

Model No.: FT185I5CAPOBK

Family Model: FT156I5CAPOBK

Report No.: S25033104302001

Issue Date: Jun. 17, 2026

Prepared for

Faytech Tech.Co., Ltd.

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Prepared by

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1 TEST RESULT CERTIFICATION

Applicant's name	Faytech Tech.Co., Ltd.
Address	Room 202A, 202B, 2F, Building 8, Yunli Intelligent Park, Bantian Street, Longgang District, Shenzhen, China
Manufacturer's Name	Sichuan faytech Tech.co.
Address	FL3, Guojun road no 29, National economic and technological development zone, Suining city, Sichuan province, China
Product description	
Product name	AI shopping desktop Kiosk
Model and/or type reference	FT185I5CAPOBK
Family Model	FT156I5CAPOBK
Test Sample Number	S250331043001
Date of Test	Mar. 31, 2025 ~ Apr. 10, 2026

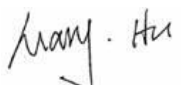
Measurement Procedure Used:

APPLICABLE STANDARDS	
APPLICABLE STANDARD/ TEST PROCEDURE	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C ANSI C63.10-2020 ANSI C63.10-2020 + Cor.1-2023 ANSI/USEMCSC C63.10a-2024 + Errata to C63.10a-2024 KDB 558074 D01 15.247 Meas Guidance v05r02	Complied

This device described above has been tested by Shenzhen NTEK Testing Technology Co., Ltd., 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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The test results of this report relate only to the tested sample identified in this report.

Prepared By: 
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(Project Engineer)

Reviewed By: 
Aaron Cheng
(Supervisor)

Approved By: 
Alex Li
(Manager)

2 SUMMARY OF TEST RESULTS

FCC Part15 (15.247), Subpart C			
Standard Section	Test Item	Verdict	Remark
15.207	Conducted Emission	PASS	
15.247 (a)(2)	6dB Bandwidth	PASS	
15.247 (b)	Maximum Output Power	PASS	
15.209 (a) 15.205 (a)	Radiated Spurious Emission	PASS	
15.247 (e)	Power Spectral Density	PASS	
15.247 (d)	Band Edge Emission	PASS	
15.247 (d)	Spurious RF Conducted Emission	PASS	
15.203	Antenna Requirement	PASS	

Remark:

1. "N/A" denotes test is not applicable in this Test Report.
2. All test items were verified and recorded according to the standards and without any deviation during the test.
3. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

3 FACILITIES AND ACCREDITATIONS

3.1 FACILITIES

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

The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.10 and CISPR Publication 22.

3.2 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

CNAS-Lab. : The Certificate Registration Number is L5516.
 IC-Registration : The Certificate Registration Number is 9270A.
 CAB identifier: CN0074

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

A2LA-Lab. : The Certificate Registration Number is 4298.01
 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories.
 This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated 8 January 2009).

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

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

3.3 MEASUREMENT UNCERTAINTY

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

No.	Item	Uncertainty
1	Conducted Emission Test	3.6dB
2	RF power, conducted	1.4dB
3	Spurious emissions, conducted	2.7dB
4	All emissions, radiated(30MHz~1GHz)	4.9dB
5	All emissions, radiated(1GHz~18GHz)	5.1dB
6	All emissions, radiated(> 18GHz)	5.76dB
7	Temperature	$\pm 1^{\circ}\text{C}$
8	Humidity	$\pm 5\%$
9	All emissions, radiated(9KHz~30MHz)	5.38dB

4 GENERAL DESCRIPTION OF EUT

Product Feature and Specification	
Equipment	AI shopping desktop Kiosk
Trade Mark	faytech
FCC ID	2BQK4FT185I5CAPOBK
Model No.	FT185I5CAPOBK
Family Model	FT156I5CAPOBK
Model Difference	All models have the same circuit and RF module, except for model names.
Operating Frequency	2412-2462MHz for 802.11b/g/11n(HT20)/ax20; 2422-2452MHz for 802.11n(HT40)/ax40;
Modulation	DSSS with DBPSK/DQPSK/CCK for 802.11b; OFDM with BPSK/QPSK/16QAM/64QAM for 802.11g/n; OFDMA with BPSK/QPSK/16QAM/64QAM/256QAM/1024QAM for 802.11ax;
Number of Channels	11 channels for 802.11b/g/11n(HT20)/ax20; 7 channels for 802.11n(HT40)/ax40;
Antenna Type	External Antenna
Antenna Gain	2 dBi
Smart system	☒ SISO for 802.11b/g/n/ax ☐ MIMO for 802.11n/ax
Adapter	N/A
Battery	N/A
Power supply	AC 120V/60Hz
HW Version	N/A
SW Version	N/A

Note: Based on the application, features, or specification exhibited in User's Manual, the EUT is considered as an ITE/Computing Device. More details of EUT technical specification, please refer to the User's Manual.

Revision History

Report No.	Version	Description	Issued Date
S25033104302001	Rev.01	Initial issue of report	Jun. 17, 2026

5 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.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Those data rates (802.11b: 1 Mbps; 802.11g: 6 Mbps; 802.11n (HT20)/ax20: MCS0; 802.11n (HT40)/ax40: MCS0) were used for all test.

The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement –X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.

Frequency and Channel list for 802.11b/g/n/ax (HT20/HT40):

Channel	Frequency(MHz)
1	2412
2	2417
...	...
5	2432
6	2437
...	...
10	2457
11	2462

Note: 1. $f_c = 2412\text{MHz} + (k-1) \times 5\text{MHz}$ $k=1$ to 11

2. In ax mode, RU allocation is not supported and it is a full carrier. Only the HE SU PPDU format operational mode

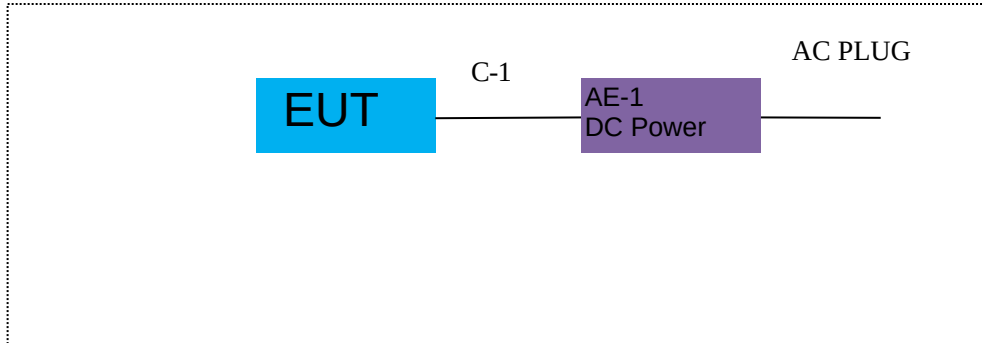
Test Mode:

Test Items	Mode	Data Rate	Channel	Ant
AC Power Line Conducted Emissions	Normal Link	-	-	-
Maximum Conducted Output Power	11b/CCK	1 Mbps	1/6/11	1/2/3/4
	11g/BPSK	6 Mbps	1/6/11	1/2/3/4
	11n HT20/ax20	MCS0	1/6/11	1/2/3/4
	11n HT40/ax40	MCS0	3/6/9	1/2/3/4
Power Spectral Density	11b/CCK	1 Mbps	1/6/11	1/2/3/4
	11g/BPSK	6 Mbps	1/6/11	1/2/3/4
	11n HT20/ax20	MCS0	1/6/11	1/2/3/4
	11n HT40/ax40	MCS0	3/6/9	1/2/3/4
6dB Spectrum Bandwidth	11b/CCK	1 Mbps	1/6/11	1/2/3/4
	11g/BPSK	6 Mbps	1/6/11	1/2/3/4
	11n HT20/ax20	MCS0	1/6/11	1/2/3/4
	11n HT40/ax40	MCS0	3/6/9	1/2/3/4
Radiated Emissions Below 1GHz	Normal Link	-	-	-
Radiated Emissions Above 1GHz	11b/CCK	1 Mbps	1/6/11	1/2/3/4
	11g/BPSK	6 Mbps	1/6/11	1/2/3/4
	11n HT20/ax20	MCS0	1/6/11	1/2/3/4
	11n HT40/ax40	MCS0	3/6/9	1/2/3/4
Band Edge Emissions	11b/CCK	1 Mbps	1/6/11	1/2/3/4
	11g/BPSK	6 Mbps	1/6/11	1/2/3/4
	11n HT20/ax20	MCS0	1/6/11	1/2/3/4
	11n HT40/ax40	MCS0	3/6/9	1/2/3/4

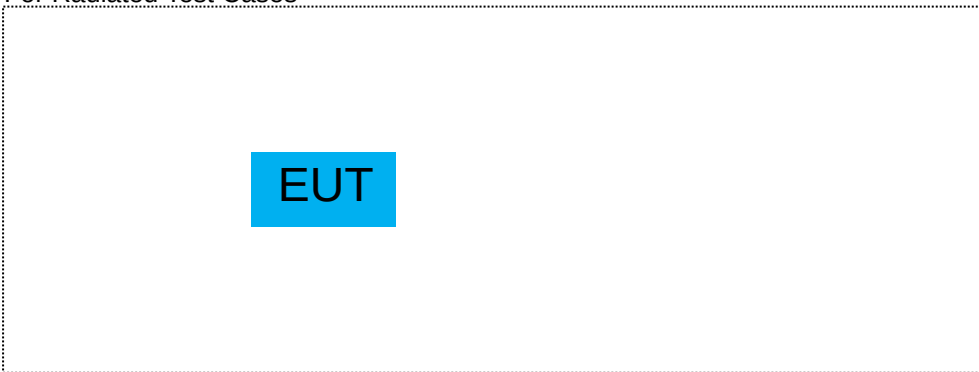
6 SETUP OF EQUIPMENT UNDER TEST

6.1 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM

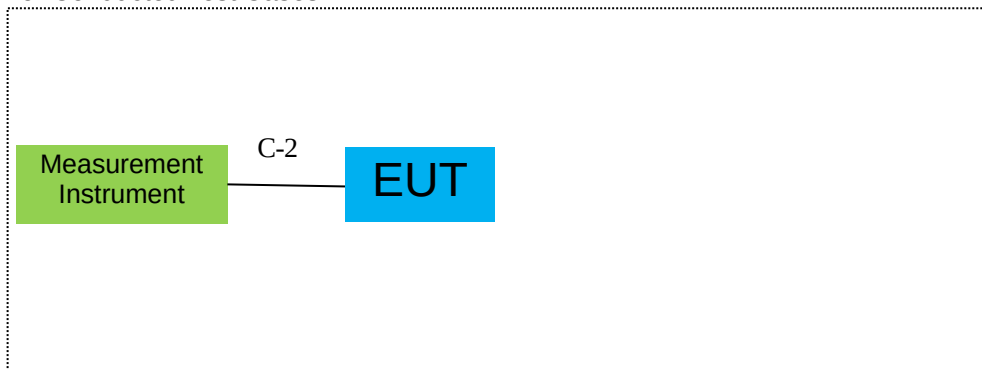
For AC Conducted Emission Mode



For Radiated Test Cases



For Conducted Test Cases



Note: 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.

6.2 SUPPORT EQUIPMENT

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	DC Power	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length
C-1	DC Cable	YES	NO	1.2m
C-2	RF Cable	YES	NO	0.1m

Notes:

- (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) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

6.3 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	2024.04.26 2025.04.24	2025.04.25 2026.04.23	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2024.04.25 2025.04.17	2025.04.24 2026.04.16	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2024.04.25 2025.04.17	2025.04.24 2026.04.16	1 year
4	Test Receiver	R&S	ESPI7	101318	2024.04.26 2025.04.17	2025.04.25 2026.04.16	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2024.05.12 2025.04.17	2025.05.11 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	2024.04.25 2025.04.17	2025.04.24 2026.04.16	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2024.05.17	2027.05.16	3 year
11	Power Meter	DARE	RPR3006W	15I00041SN084	2024.04.25 2025.04.17	2025.04.24 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-40G Hz)	N/A	R-03	N/A	2023.05.06	2026.05.05	3 year
15	High Test Cable(1G-40G Hz)	N/A	R-04	N/A	2023.05.06	2026.05.05	3 year
16	Filter	TRILTHIC	2400MHz	29	2024.04.26	2027.04.25	3 year
17	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	2024.04.26 2025.04.17	2025.04.25 2026.04.16	1 year
2	LISN	R&S	ENV216	101313	2024.04.25 2025.04.16	2025.04.24 2026.04.15	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2024.04.25 2025.04.16	2025.04.24 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 Aux Equipment & Test Cable which is scheduled for calibration every 2 or 3 years.

Measurement Software

Item	Manufacturer	Software Name	Software Version	Description
1	MWRFTtest	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

7 TEST REQUIREMENTS

7.1 CONDUCTED EMISSIONS TEST

7.1.1 Applicable Standard

According to FCC Part 15.207(a)

7.1.2 Conformance Limit

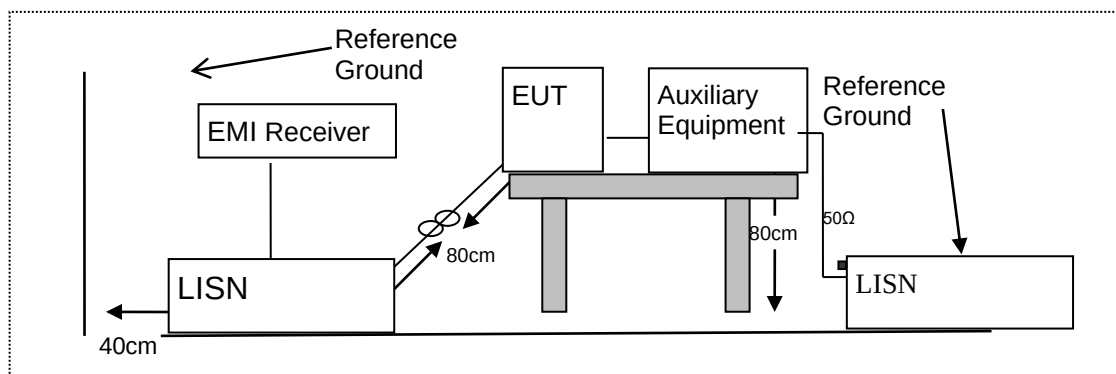
Frequency(MHz)	Conducted Emission Limit	
	Quasi-peak	Average
0.15-0.5	66-56*	56-46*
0.5-5.0	56	46
5.0-30.0	60	50

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.

7.1.3 Measuring Instruments

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

7.1.4 Test Configuration



7.1.5 Test Procedure

According to the requirements in Section 6.2 of ANSI C63.10-2020 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.

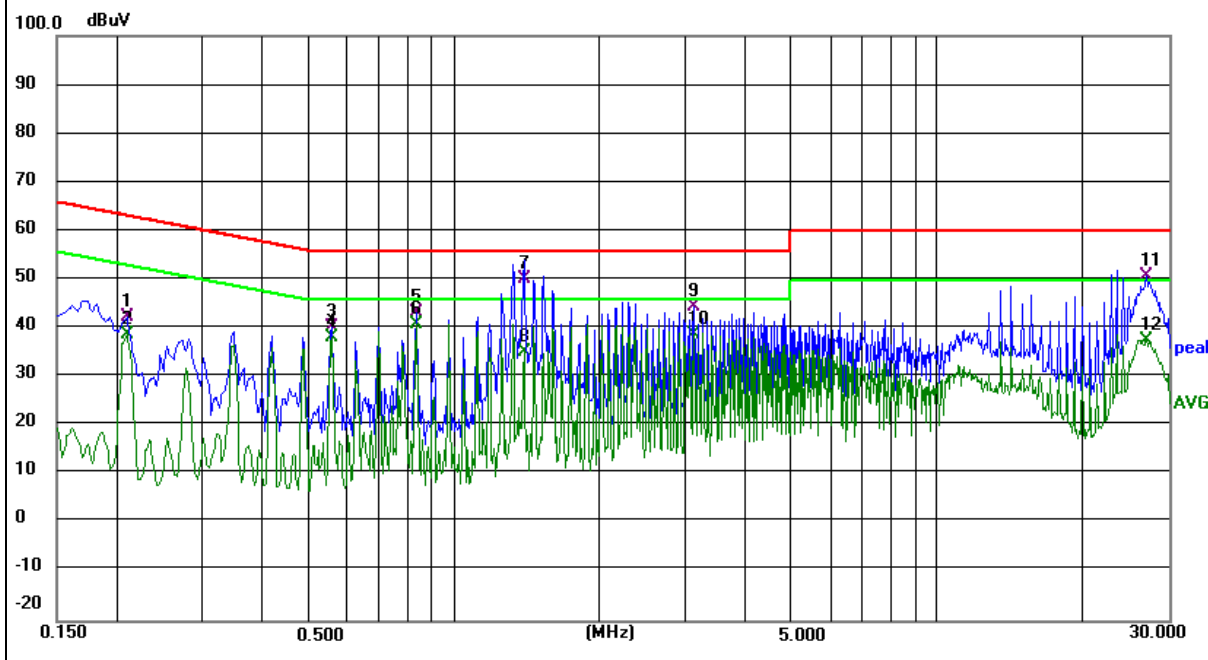
7.1.6 Test Results

EUT:	AI shopping desktop Kiosk	Model Name :	FT185I5CAPOBK
Temperature:	23.7 °C	Relative Humidity:	53.2%
Pressure:	1010hPa	Phase :	L
Test Voltage :	AC 120V/60Hz	Tested By:	Mary Hu
Test Mode:	Normal Link		

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.2100	32.42	10.07	42.49	63.21	-20.72	QP
0.2100	28.78	10.07	38.85	53.21	-14.36	AVG
0.5580	29.63	10.78	40.41	56.00	-15.59	QP
0.5580	27.37	10.78	38.15	46.00	-7.85	AVG
0.8340	31.87	11.34	43.21	56.00	-12.79	QP
0.8340	29.42	11.34	40.76	46.00	-5.24	AVG
1.3940	37.74	12.46	50.20	56.00	-5.80	QP
1.3940	22.62	12.46	35.08	46.00	-10.92	AVG
3.1300	34.67	9.72	44.39	56.00	-11.61	QP
3.1300	29.10	9.72	38.82	46.00	-7.18	AVG
26.9860	40.72	10.18	50.90	60.00	-9.10	QP
26.9860	27.46	10.18	37.64	50.00	-12.36	AVG

Remark:

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

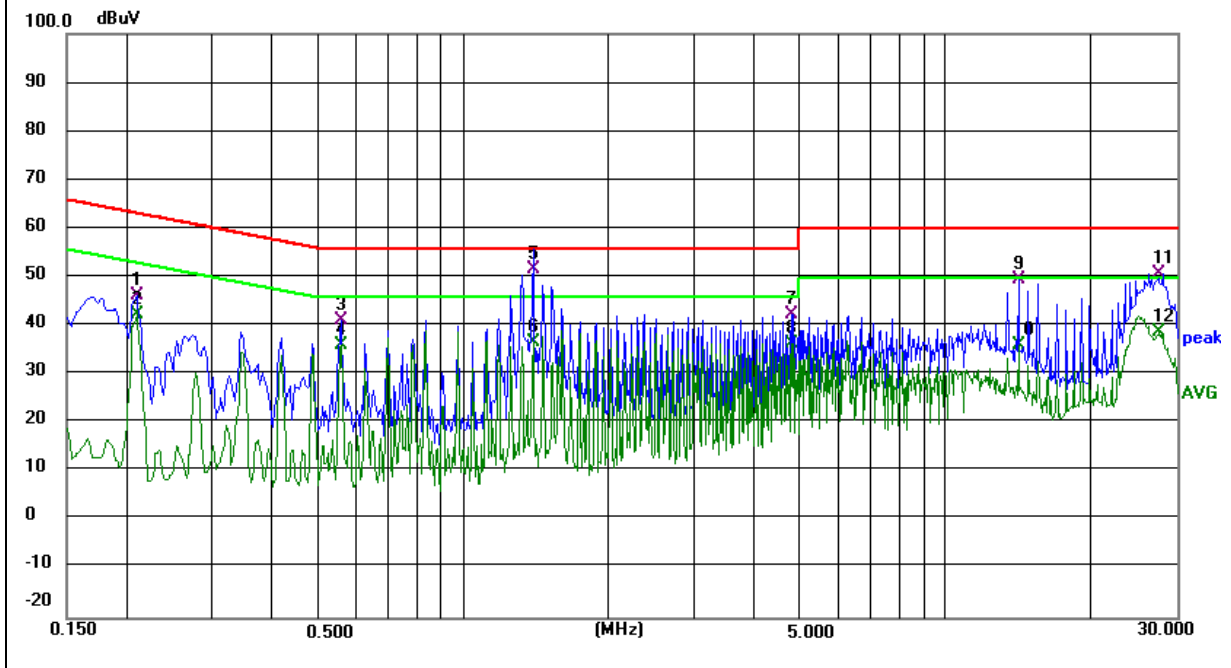


EUT:	AI shopping desktop Kiosk	Model Name :	FT185I5CAPOBK
Temperature:	23.7℃	Relative Humidity:	53.2%
Pressure:	1010hPa	Phase :	N
Test Voltage :	AC 120V/60Hz	Tested By:	Mary Hu
Test Mode:	Normal Link		

Frequency	Reading Level	Correct Factor	Measure-ment	Limits	Margin	Remark
(MHz)	(dBμV)	(dB)	(dBμV)	(dBμV)	(dB)	
0.2100	36.29	9.99	46.28	63.21	-16.93	QP
0.2100	32.55	9.99	42.54	53.21	-10.67	AVG
0.5580	30.36	10.80	41.16	56.00	-14.84	QP
0.5580	25.44	10.80	36.24	46.00	-9.76	AVG
1.3900	39.35	12.45	51.80	56.00	-4.20	QP
1.3900	24.15	12.45	36.60	46.00	-9.40	AVG
4.7940	32.67	9.74	42.41	56.00	-13.59	QP
4.7940	26.64	9.74	36.38	46.00	-9.62	AVG
14.1140	39.48	10.06	49.54	60.00	-10.46	QP
14.1140	26.07	10.06	36.13	50.00	-13.87	AVG
27.5900	40.70	10.17	50.87	60.00	-9.13	QP
27.5900	28.51	10.17	38.68	50.00	-11.32	AVG

Remark:

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



7.2 RADIATED SPURIOUS EMISSION

7.2.1 Applicable Standard

According to FCC Part 15.247(d), 15.209 and 15.205

7.2.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).
According to FCC Part 15.205, Restricted bands

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

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

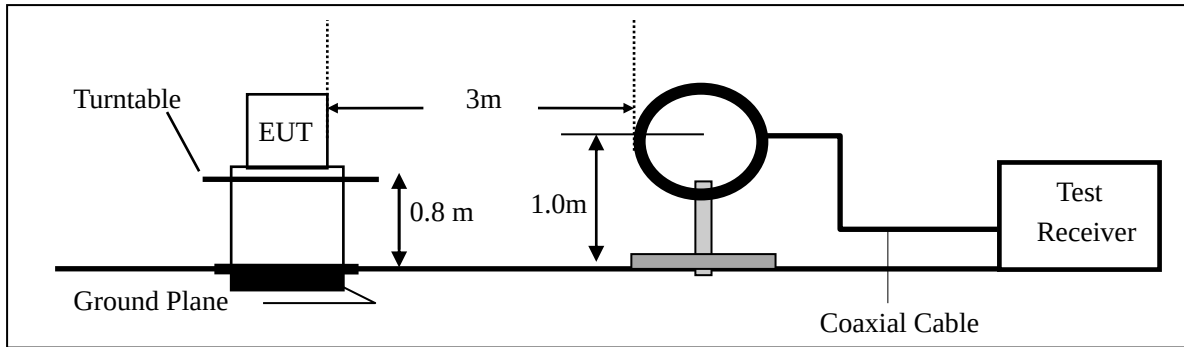
Remark : 1. Emission level in dBuV/m=20 log (uV/m)
2. Measurement was performed at an antenna to the closed point of EUT distance of meters.
3. For Frequency 9kHz~30MHz:
Distance extrapolation factor =40log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.
For Frequency above 30MHz:
Distance extrapolation factor =20log(Specific distance/ test distance)(dB);
Limit line=Specific limits(dBuV) + distance extrapolation factor.

7.2.3 Measuring Instruments

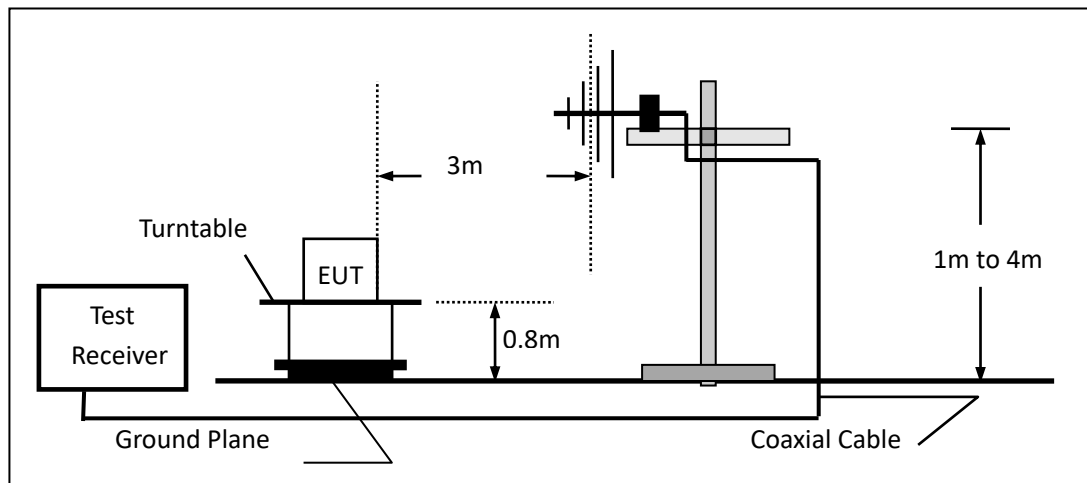
The Measuring equipment is listed in the section 6.3 of this test report.

7.2.4 Test Configuration

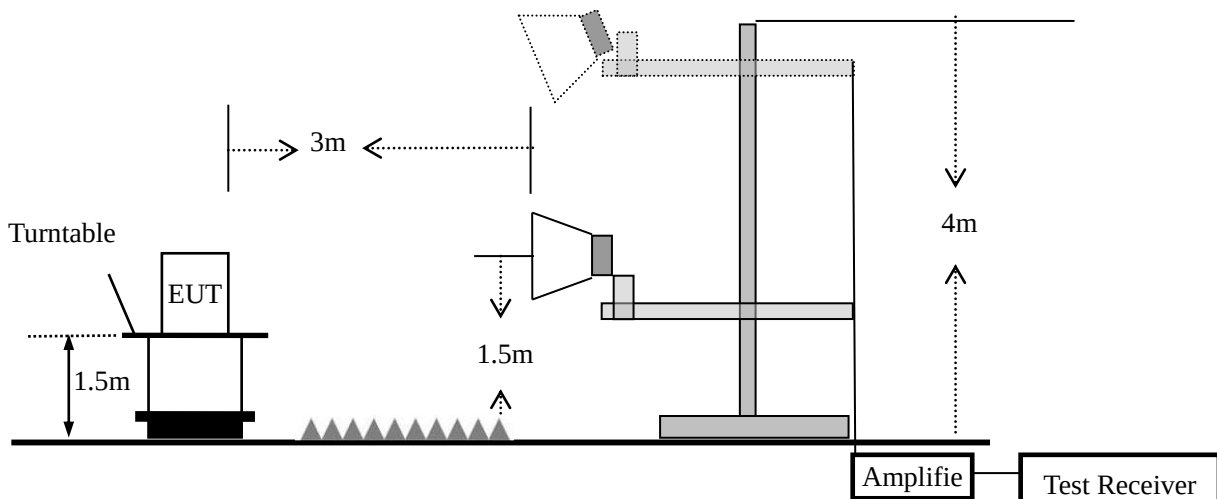
(a) For radiated emissions below 30MHz



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



(c) For radiated emissions above 1000MHz



7.2.5 Test Procedure

According to the requirements in Section 6.3, 6.5, 6.6, 6.10.5 and 11.12 of ANSI C63.10-2020

From 30 MHz to 1GHz test procedure as below:

- 1) The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3-meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2) The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 3) The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4) For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

Above 1GHz test procedure as below:

- 1) Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change from table 0.8 meter to 1.5 meter.
- 2) Test the EUT in the lowest channel, middle channel, the highest channel
- 3) The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and test the worst-case axis positioning.
- 4) Repeat above procedures until all frequencies measured was complete.

7.2.6 Test Results

7.2.6.1 Test Results of Radiated Spurious Emissions (9kHz to 30MHz)

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

7.2.6.2 Test Results of Radiated Spurious Emissions (30MHz to 1GHz)

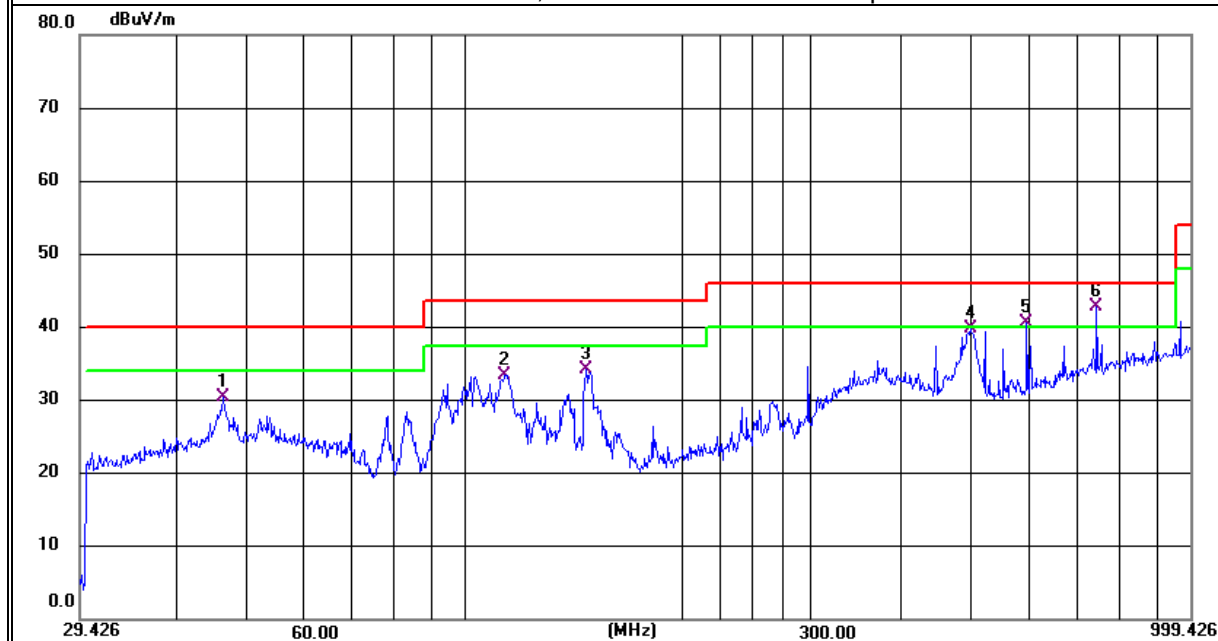
EUT:	AI shopping desktop Kiosk	Model Name :	FT185I5CAPOBK
Temperature:	25.5 °C	Relative Humidity:	52%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	AC 230V/50Hz	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	46.3692	10.99	19.53	30.52	40.00	-9.48	QP
V	113.5297	16.01	17.47	33.48	43.50	-10.02	QP
V	146.8501	19.53	14.60	34.13	43.50	-9.37	QP
V	497.2881	15.08	24.77	39.85	46.00	-6.15	QP
V	595.2374	14.90	25.66	40.56	46.00	-5.44	QP
V	743.2667	14.49	28.29	42.78	46.00	-3.22	QP

Remark:

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

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

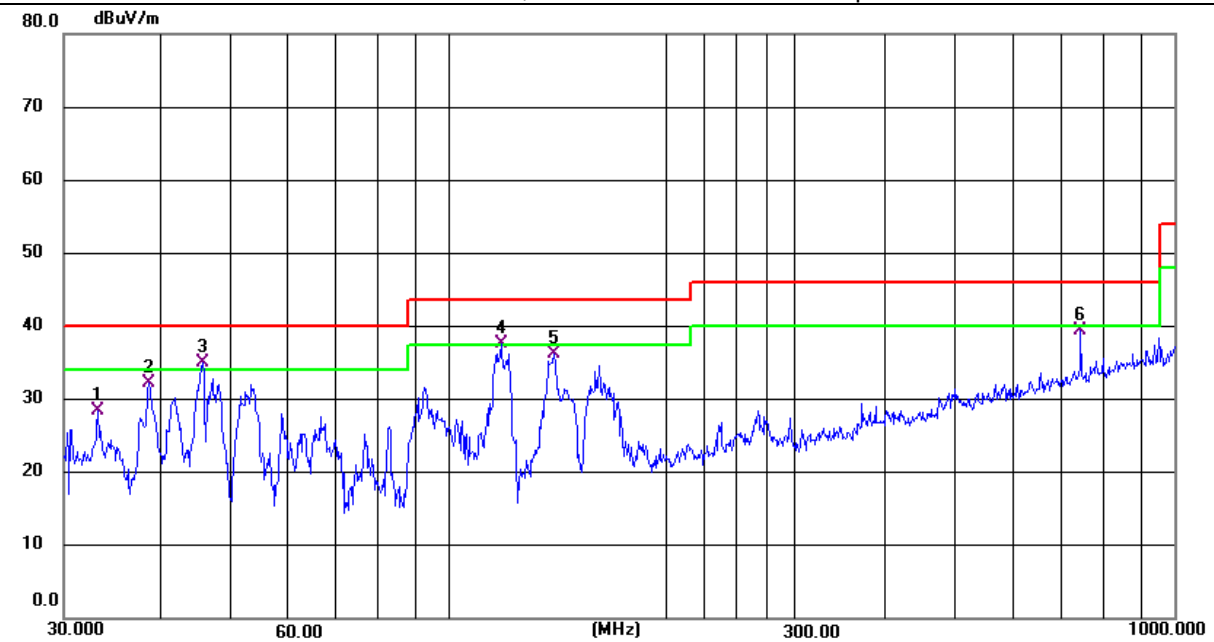


EUT:	AI shopping desktop Kiosk	Model Name :	FT185I5CAPOBK
Temperature:	25.5 °C	Relative Humidity:	52%
Pressure:	1010hPa	Test Mode:	Mode 1
Test Voltage :	AC 230V/50Hz	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	32.8238	11.56	16.77	28.33	40.00	-11.67	QP
H	38.6026	13.67	18.50	32.17	40.00	-7.83	QP
H	45.7200	15.40	19.57	34.97	40.00	-5.03	QP
H	118.0187	21.03	16.62	37.65	43.50	-5.85	QP
H	139.7783	21.19	15.01	36.20	43.50	-7.30	QP
H	743.2666	11.09	28.29	39.38	46.00	-6.62	QP

Remark:

Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit
All the modulation modes have been tested, and the worst result was report



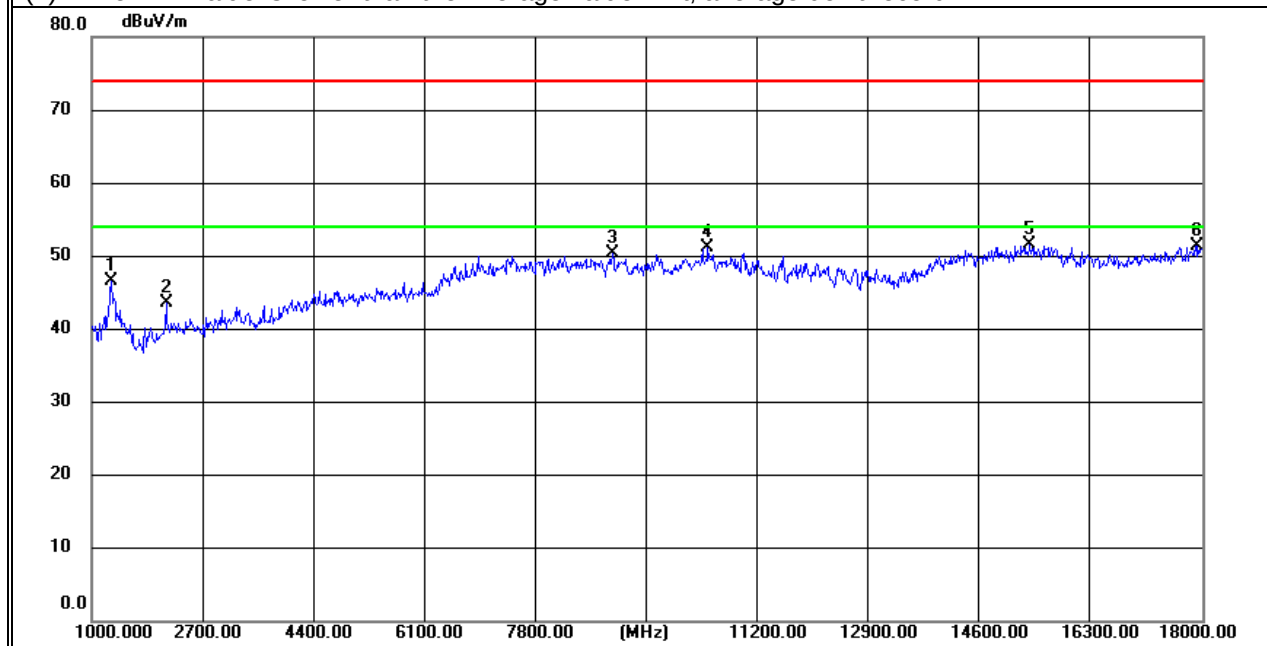
7.2.6.3 Test Results of Radiated Spurious Emissions (1GHz to 18GHz)

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	25.5 °C	Relative Humidity:	52%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1306.000	54.00	-7.49	46.51	74.00	-27.49	peak
V	2139.000	49.42	-5.79	43.63	74.00	-30.37	peak
V	8973.000	41.31	8.97	50.28	74.00	-23.72	peak
V	10435.000	39.81	11.34	51.15	74.00	-22.85	peak
V	15365.000	37.73	13.90	51.63	74.00	-22.37	peak
V	17932.000	33.51	17.93	51.44	74.00	-22.56	peak

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11b CH1 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.

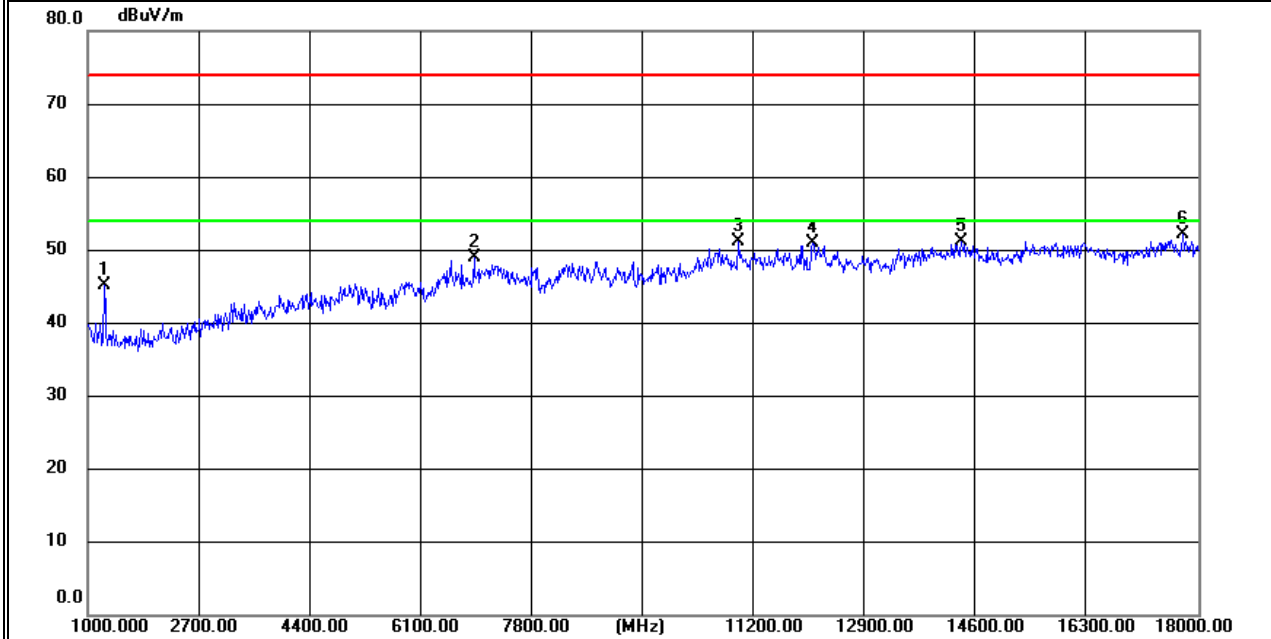


EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	25.5 °C	Relative Humidity:	52%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1255.000	52.75	-7.53	45.22	74.00	-28.78	peak
H	6916.000	42.92	6.03	48.95	74.00	-25.05	peak
H	10962.000	39.02	12.15	51.17	74.00	-22.83	peak
H	12101.000	39.42	11.59	51.01	74.00	-22.99	peak
H	14379.000	36.31	14.87	51.18	74.00	-22.82	peak
H	17762.000	35.40	16.75	52.15	74.00	-21.85	peak

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11b CH1 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.

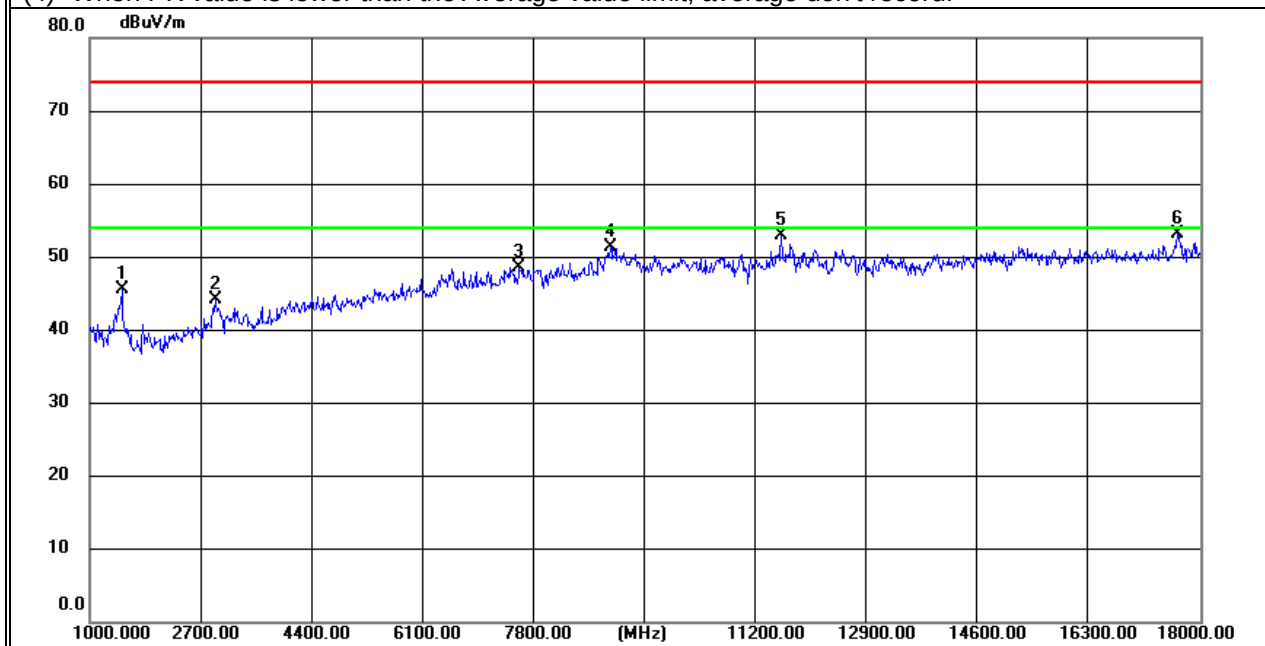


EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	25.5 °C	Relative Humidity:	52%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	1493.000	53.11	-7.57	45.54	74.00	-28.46	peak
V	2921.000	47.59	-3.44	44.15	74.00	-29.85	peak
V	7579.000	41.83	6.74	48.57	74.00	-25.43	peak
V	8973.000	42.31	8.97	51.28	74.00	-22.72	peak
V	11591.000	41.28	11.61	52.89	74.00	-21.11	peak
V	17660.000	37.12	16.04	53.16	74.00	-20.84	peak

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11b CH6 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.

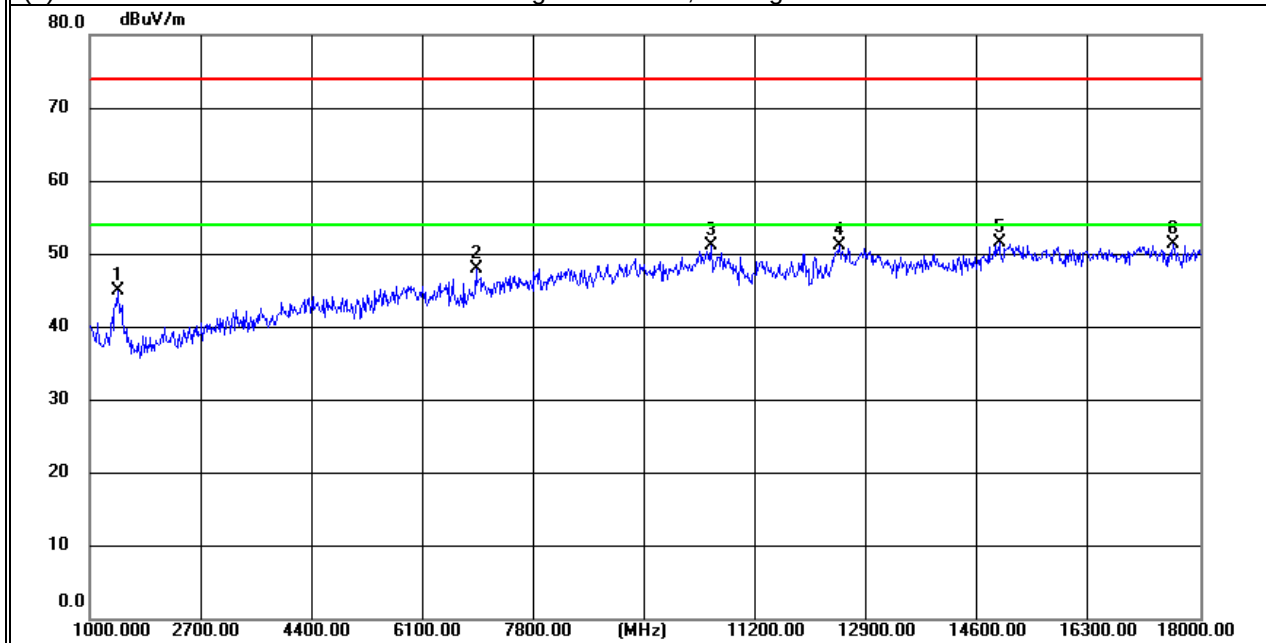


EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	25.5 °C	Relative Humidity:	52%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	1425.000	52.45	-7.52	44.93	74.00	-29.07	peak
H	6916.000	41.92	6.03	47.95	74.00	-26.05	peak
H	10520.000	39.74	11.53	51.27	74.00	-22.73	peak
H	12475.000	39.24	11.99	51.23	74.00	-22.77	peak
H	14923.000	37.16	14.38	51.54	74.00	-22.46	peak
H	17592.000	35.76	15.62	51.38	74.00	-22.62	peak

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11b CH6 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.



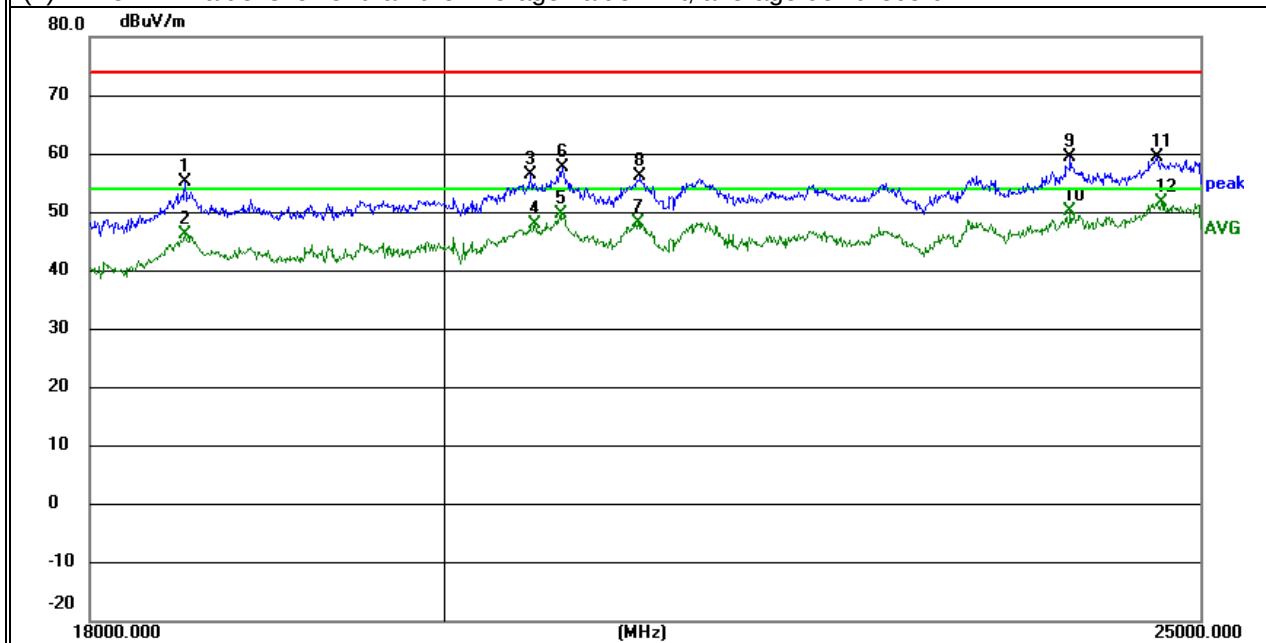
7.2.6.4 Test Results of Radiated Spurious Emissions (18GHz to 25GHz)

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	23.7 °C	Relative Humidity:	49%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	18520.625	88.23	-32.93	55.30	74.00	-18.70	peak
V	18520.625	79.19	-32.93	46.26	54.00	-7.74	AVG
V	20511.775	88.37	-32.02	56.35	74.00	-17.65	peak
V	20540.650	80.04	-31.97	48.07	54.00	-5.93	AVG
V	20693.425	81.56	-31.75	49.81	54.00	-4.19	AVG
V	20709.000	89.28	-31.72	57.56	74.00	-16.44	peak
V	21173.625	79.25	-31.05	48.20	54.00	-5.80	AVG
V	21190.600	87.16	-31.03	56.13	74.00	-17.87	peak
V	24061.650	86.39	-26.98	59.41	74.00	-14.59	peak
V	24061.650	77.18	-26.98	50.20	54.00	-3.80	AVG
V	24688.850	85.94	-26.46	59.48	74.00	-14.52	peak
V	24718.950	78.09	-26.43	51.66	54.00	-2.34	AVG

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11b CH1 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.

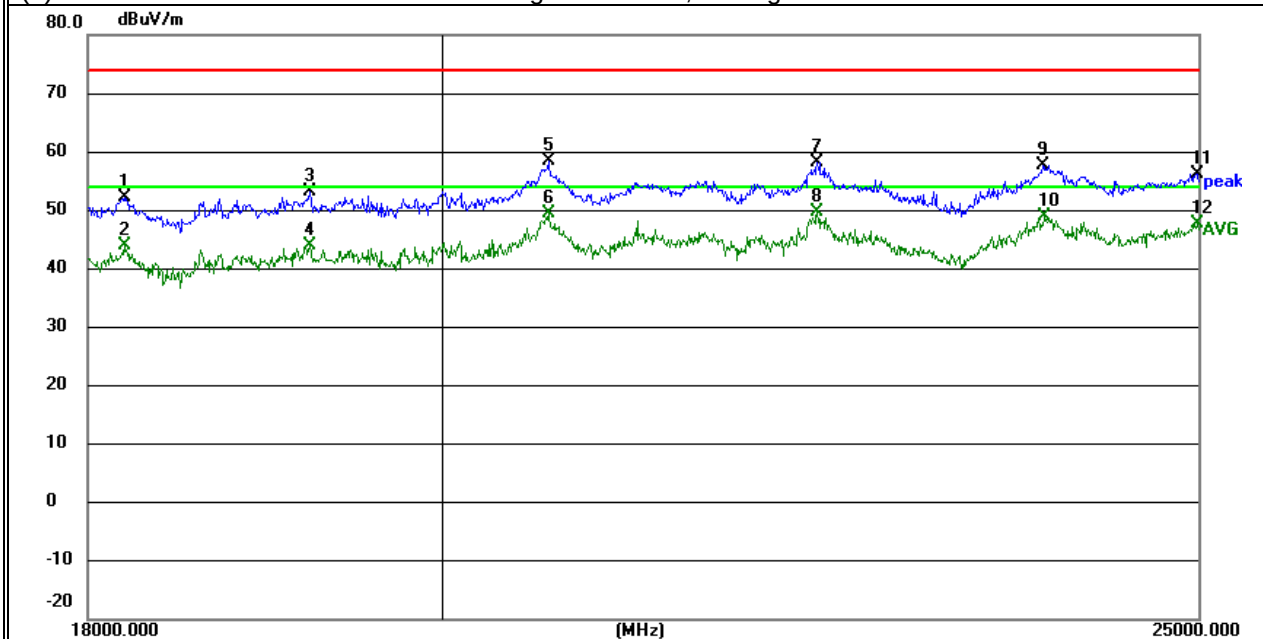


EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	23.7 °C	Relative Humidity:	49%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	18199.150	47.60	4.51	52.11	74.00	-21.89	peak
H	18199.150	39.41	4.51	43.92	54.00	-10.08	AVG
H	19222.900	48.03	5.14	53.17	74.00	-20.83	peak
H	19222.900	38.84	5.14	43.98	54.00	-10.02	AVG
H	20632.875	51.02	7.46	58.48	74.00	-15.52	peak
H	20632.875	41.94	7.46	49.40	54.00	-4.60	AVG
H	22341.225	48.64	9.64	58.28	74.00	-15.72	peak
H	22341.225	39.98	9.64	49.62	54.00	-4.38	AVG
H	23881.925	46.04	11.71	57.75	74.00	-16.25	peak
H	23894.000	37.22	11.75	48.97	54.00	-5.03	AVG
H	24994.575	42.32	13.89	56.21	74.00	-17.79	peak
H	24994.575	33.87	13.89	47.76	54.00	-6.24	AVG

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11b CH1 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.



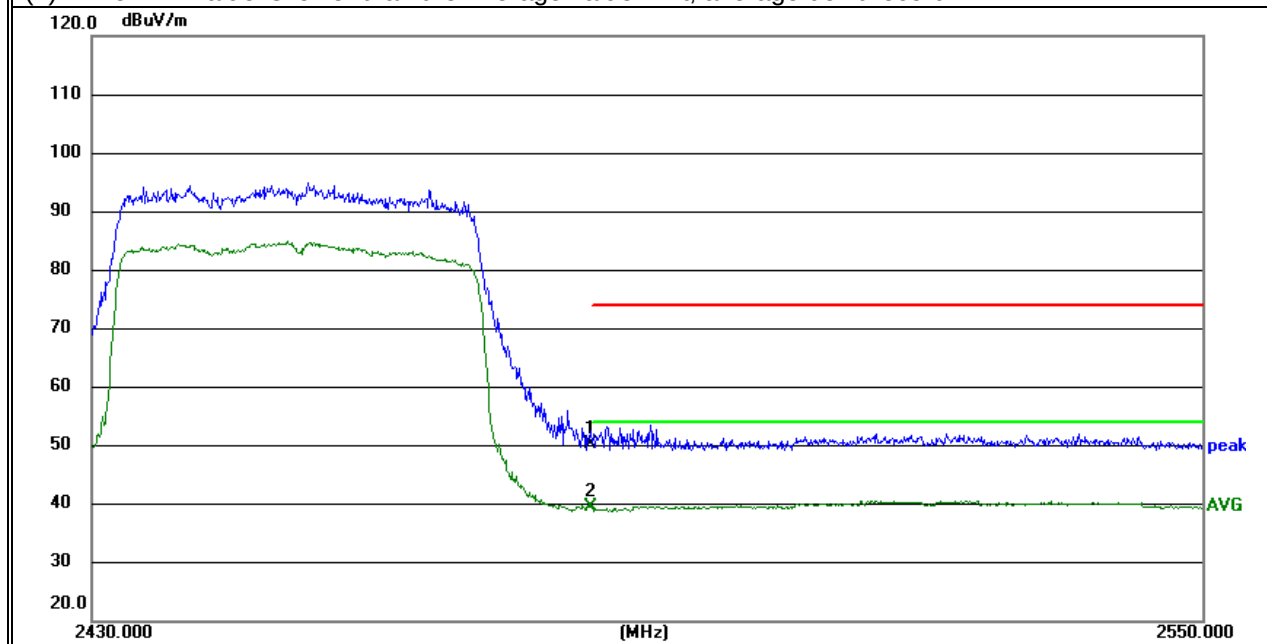
7.2.6.5 Test Results of Radiated Spurious at Band Edges

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	24.2 °C	Relative Humidity:	49%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2483.500	56.72	-6.38	50.34	74.00	-23.66	peak
V	2483.500	46.07	-6.38	39.69	54.00	-14.31	AVG

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11n(HT20) CH1 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.

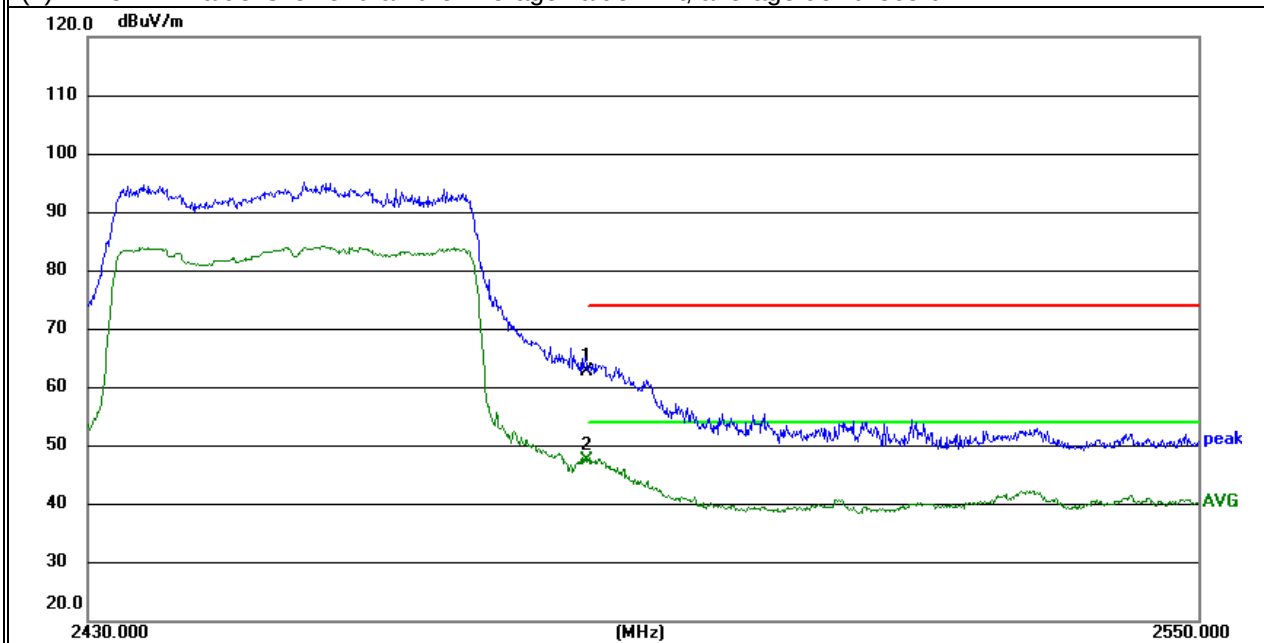


EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	24.2 °C	Relative Humidity:	49%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2483.500	69.23	-6.38	62.85	74.00	-11.15	peak
H	2483.500	53.91	-6.38	47.53	54.00	-6.47	AVG

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11n(HT20) CH1 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.

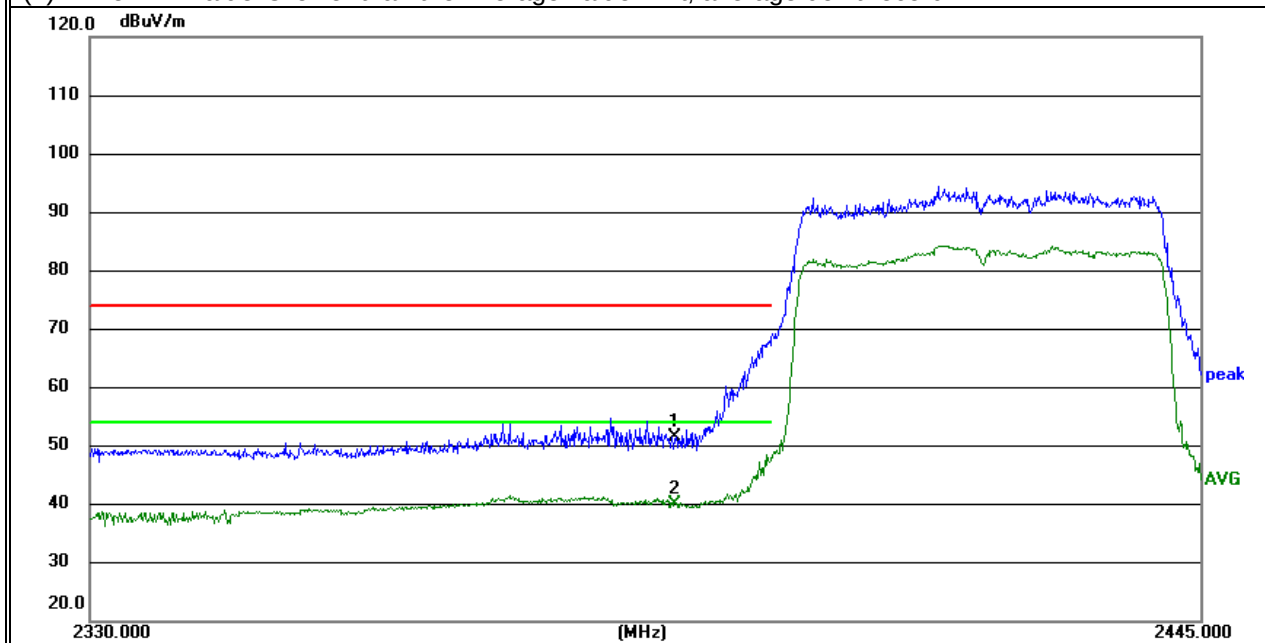


EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	24.2 °C	Relative Humidity:	49%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	2390.000	58.74	-7.31	51.43	74.00	-22.57	peak
V	2390.000	47.40	-7.31	40.09	54.00	-13.91	AVG

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11n(HT20) CH11 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.

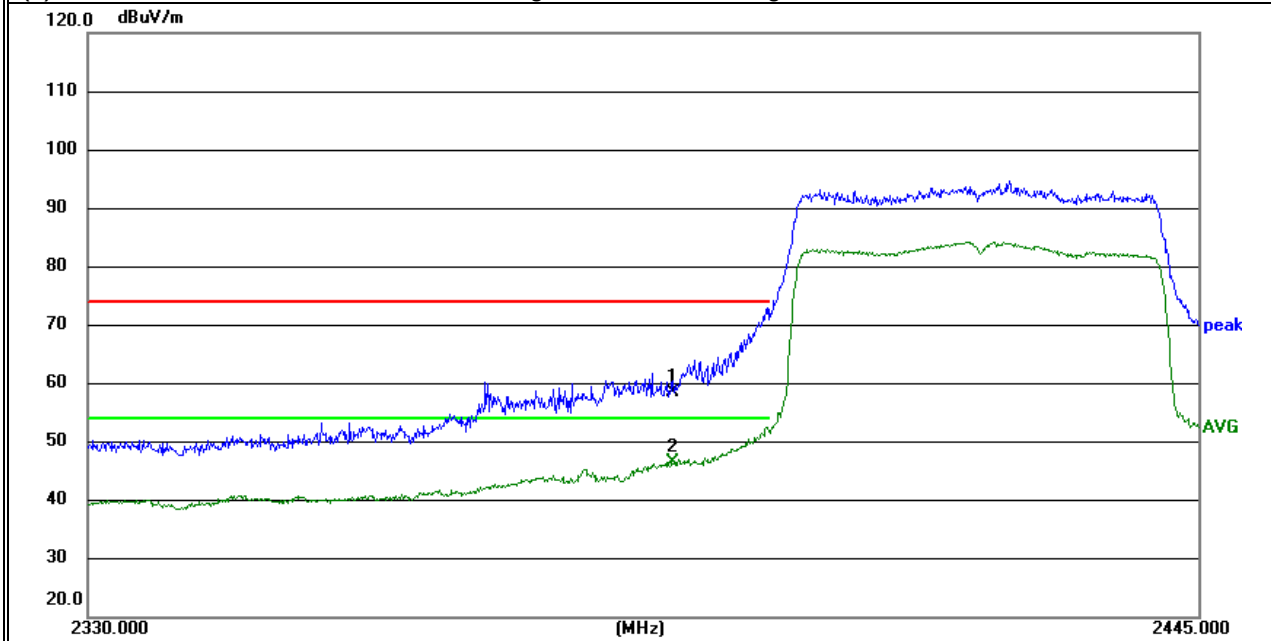


EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	24.2 °C	Relative Humidity:	49%
Test Mode:	802.11b/g/n/ax(HT20, HT40)	Tested By:	Mary Hu

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	2390.000	65.81	-7.31	58.50	74.00	-15.50	peak
H	2390.000	53.86	-7.31	46.55	54.00	-7.45	AVG

Remark:

- (1) Emission Level = Meter Reading+ Factor, Margin= Emission Level- Limit, Factor= Antenna Factor + Cable Loss - Preamp Factor
- (2) All the modulation modes and Antenna have been tested, and the worst-case result was 802.11n(HT20) CH11 and antenna2. Only the worst-case mode and antenna are reported.
- (3) Other emissions are attenuated more than 20dB below the permissible limits, so it does not recorded in the report.
- (4) When PK value is lower than the Average value limit, average don't record.



7.3 6DB BANDWIDTH

7.3.1 Applicable Standard

According to FCC Part 15.247(a)(2) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.2.

7.3.2 Conformance Limit

The minimum permissible 6dB bandwidth is 500 kHz.

7.3.3 Measuring Instruments

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

7.3.4 Test Setup

Please refer to Section 6.1 of this test report.

7.3.5 Test Procedure

The testing follows ANSI C63.10-2020 clause 11.8

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz.

Set the VBW $\geq 3 \times$ RBW

Detector = peak

Trace mode = max-hold

7.3.6 Test Results

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Tested By:	Mary Hu

Test data reference attachment.

7.4 DUTY CYCLE

7.4.1 Applicable Standard

According to KDB 558074 D01 15.247 Meas Guidance v05r02 Section 6.

7.4.2 Conformance Limit

No limit requirement.

7.4.3 Measuring Instruments

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

7.4.4 Test Setup

Please refer to Section 6.1 of this test report.

7.4.5 Test Procedure

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Use the following spectrum analyzer settings:

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW $\geq$ OBW if possible; otherwise, set RBW to the largest available value.

Set VBW $\geq$ RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

7.4.6 Test Results

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Tested By:	Mary Hu

Note: Test data reference attachment.

7.5 MAXIMUM OUTPUT POWER

7.5.1 Applicable Standard

According to FCC Part 15.247(b)(3) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.3.2.3.

7.5.2 Conformance Limit

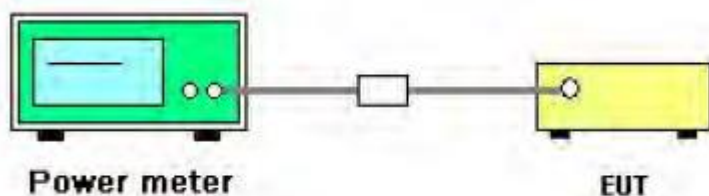
The maximum peak conducted output power of the intentional radiator for systems using digital modulation in the 2400 - 2483.5 MHz bands shall not exceed: 1 Watt (30dBm). As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. If transmitting antenna of directional gain greater than 6dBi is used, the conducted output power limit from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

7.5.3 Measuring Instruments

The following table is the setting of the power meter.

Power meter parameter	Setting
Detector	AV

7.5.4 Test Setup



7.5.5 Test Procedure

The maximum conducted output power may be measured using a RF power meter. The testing follows Measurement Procedure Subclause 11.9.2.3.1 of ANSI C63.10

7.5.6 EUT operation during Test

The EUT was programmed to be in continuously transmitting mode.

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Tested By:	Mary Hu

Test data reference attachment.

7.6 POWER SPECTRAL DENSITY

7.6.1 Applicable Standard

According to FCC Part 15.247(e) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.4.

7.6.2 Conformance Limit

The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.6.3 Measuring Instruments

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

7.6.4 Test Setup

Please refer to Section 6.1 of this test report.

7.6.5 Test Procedure

The testing follows ANSI C63.10-2020 clause 11.10.5

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

- a) Measure the duty cycle (D) of the transmitter output signal.
- b) Set instrument center frequency to DTS channel center frequency.
- c) Set span to > 1.5 times the OBW.
- d) Set RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- e) Set VBW $\geq [3 \times \text{RBW}]$.
- f) Detector = power averaging (rms) or sample detector (when rms not available).
- g) Ensure that the number of measurement points in the sweep $\geq [2 \times \text{span} / \text{RBW}]$.
- h) Sweep time = auto couple.
- i) Do not use sweep triggering; allow sweep to "free run."
- j) Employ trace averaging (rms) mode over a minimum of 100 traces.
- k) Use the peak marker function to determine the maximum amplitude level.
- l) Add $[10 \log (1 / D)]$, where D is the duty cycle measured in step a), to the measured PSD to compute the average PSD during the actual transmission time.
- m) If measured value exceeds requirement specified by regulatory agency, then reduce RBW (but no less than 3 kHz) and repeat (note that this might require zooming in on the emission of interest and reducing the span to meet the minimum measurement point requirement as the RBW is reduced).

7.6.6 Test Results

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Tested By:	Mary Hu

Test data reference attachment.

7.7 CONDUCTED BAND EDGE MEASUREMENT

7.7.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02 Section 8.7.

7.7.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB.

7.7.3 Measuring Instruments

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

7.7.4 Test Setup

Please refer to Section 6.1 of this test report.

7.7.5 Test Procedure

The testing follows ANSI C63.10-2020 clause 6.10.4 and 11.11

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.

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.

Repeat above procedures until all measured frequencies were complete.

7.7.6 Test Results

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Tested By:	Mary Hu

Test data reference attachment.

7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance Limit

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.

7.8.2 Measuring Instruments

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

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

The testing follows ANSI C63.10-2020 clause 11.11

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.

The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously.

The EUT was operating in controlled its channel.

Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz.

Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point frequency.

The spectrum shall be investigated from the lowest radio frequency signal generated in the device to the tenth harmonic of the highest fundamental frequency.

Repeat above procedures until all measured frequencies were complete.

7.8.5 Test Results

EUT:	AI shopping desktop Kiosk	Model No.:	FT185I5CAPOBK
Temperature:	20 °C	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40/ax20/ax40	Tested By:	Mary Hu

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandedge measurement data.

Test data reference attachment.

7.9 ANTENNA APPLICATION

7.9.1 Antenna 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.

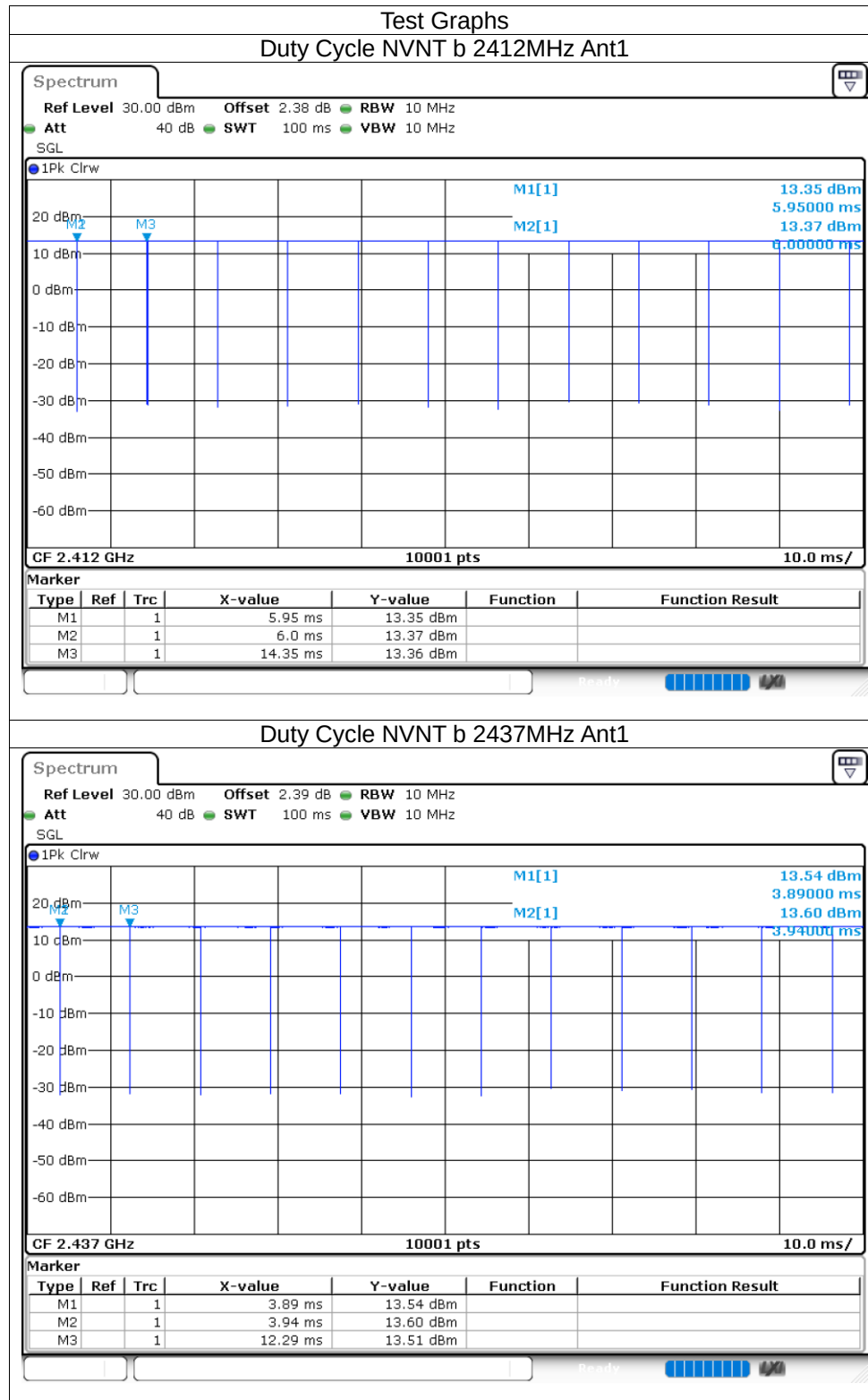
7.9.2 Result

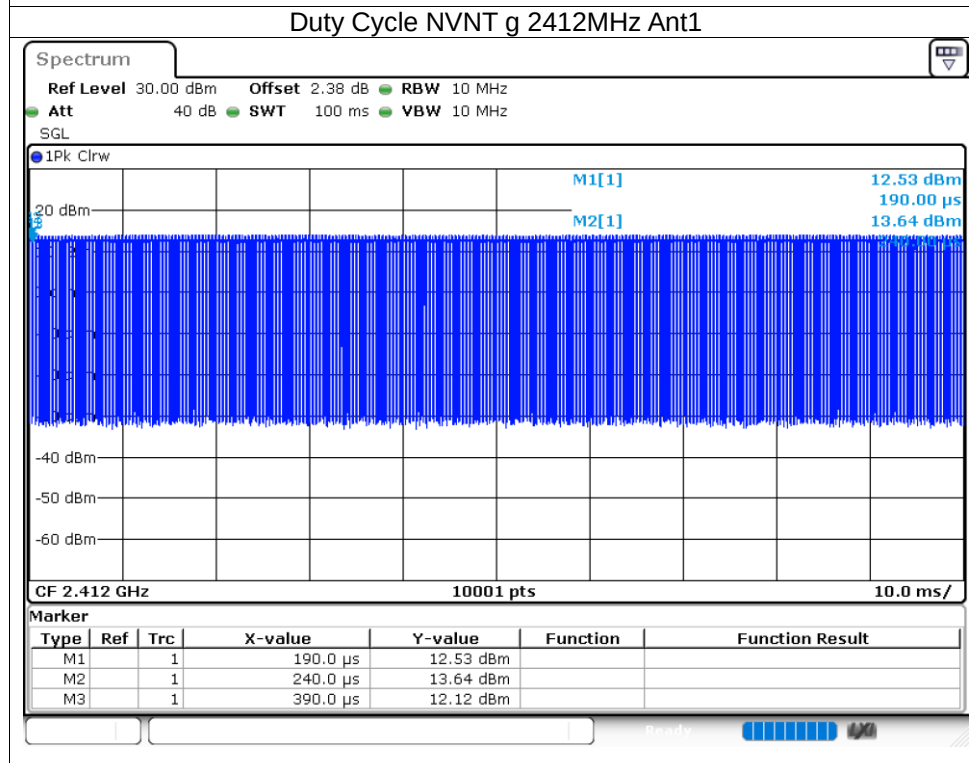
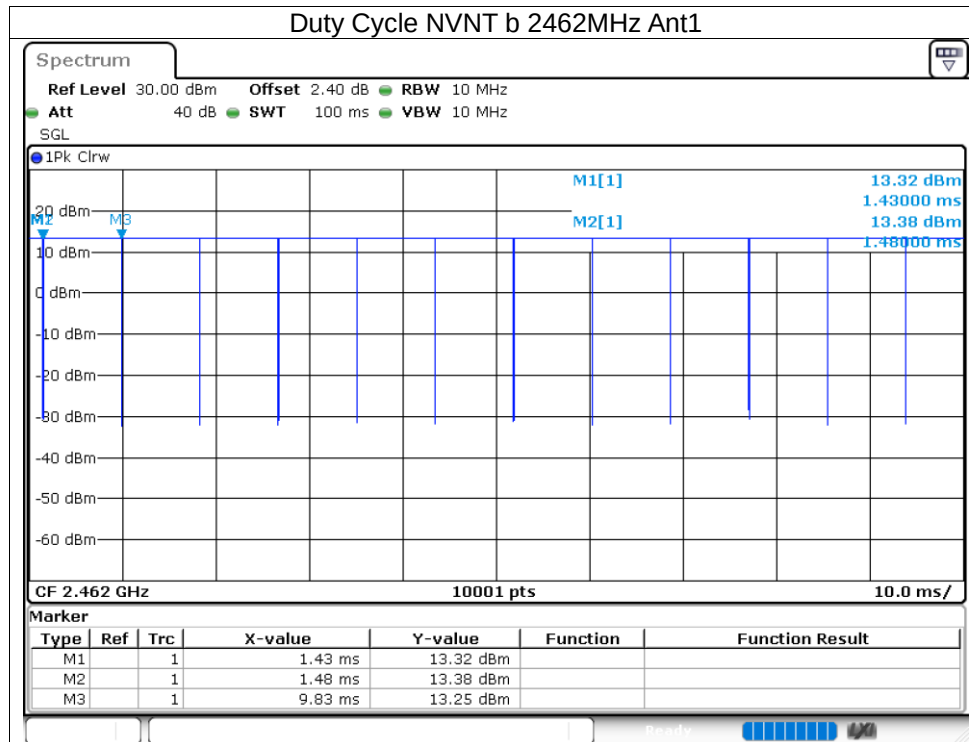
The EUT antenna is permanent attached reversed-SMA antenna connector. It comply with the standard requirement.

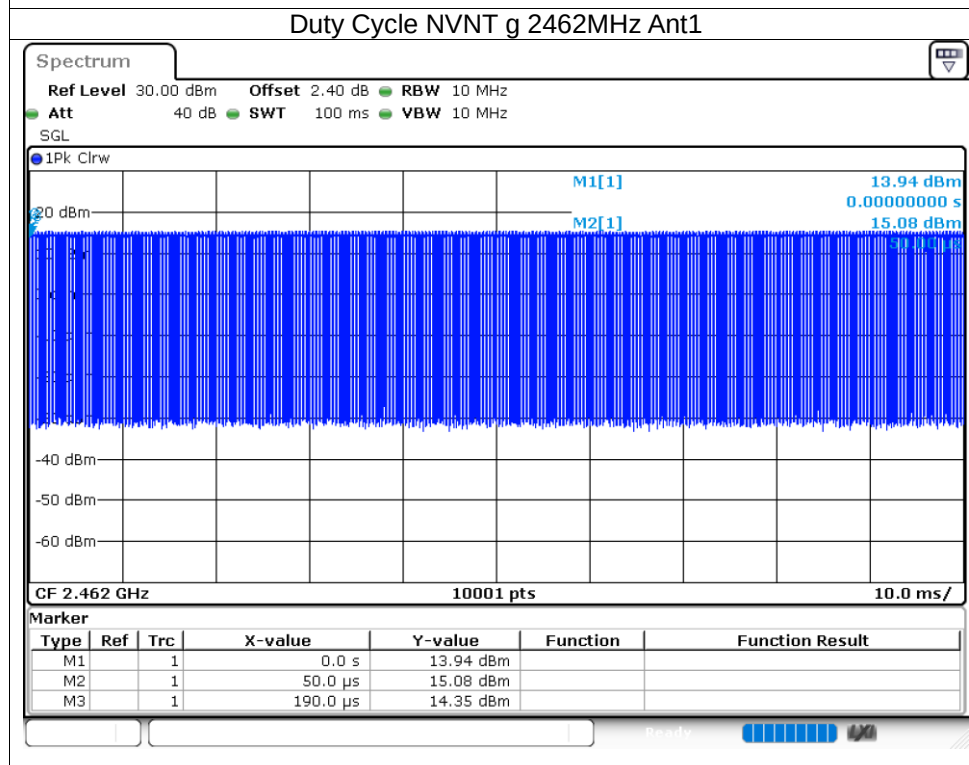
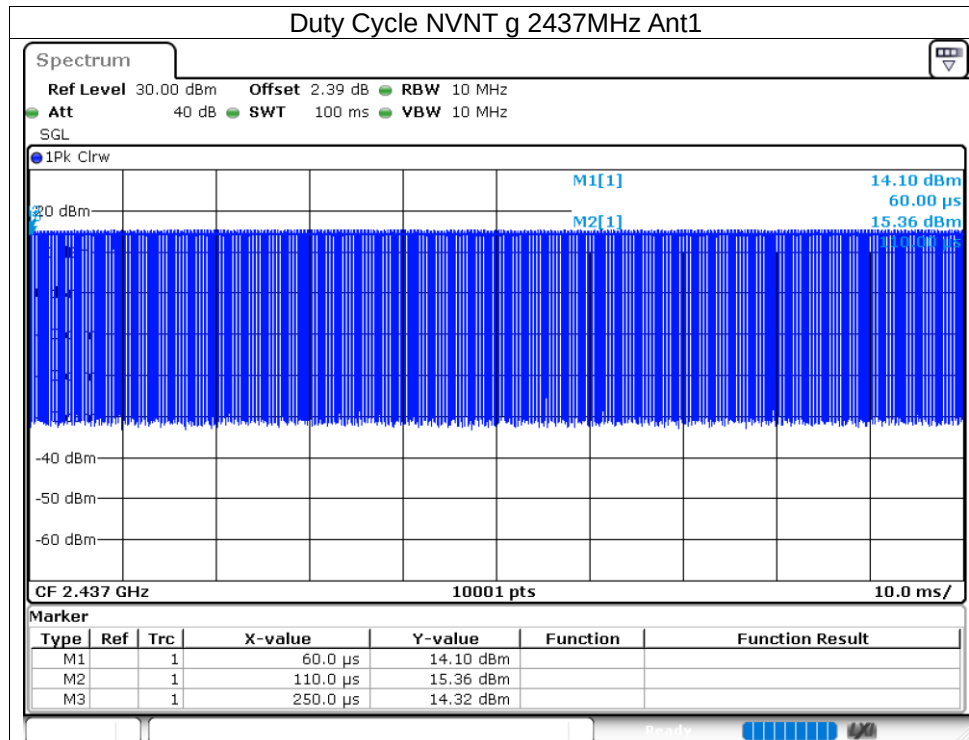
8 TEST RESULTS

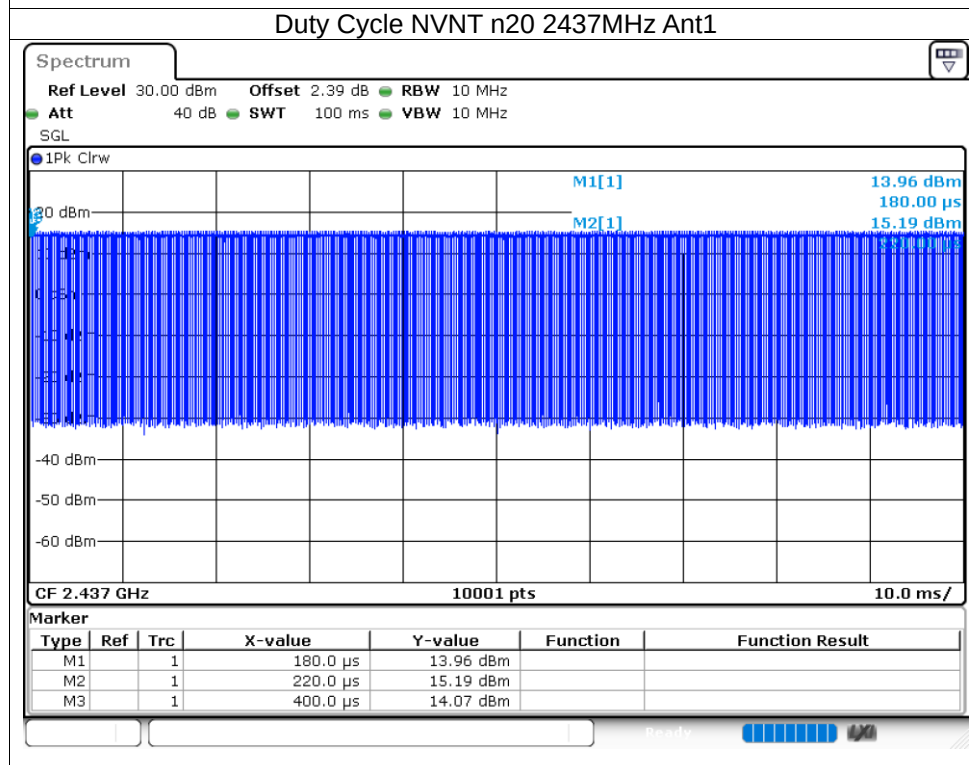
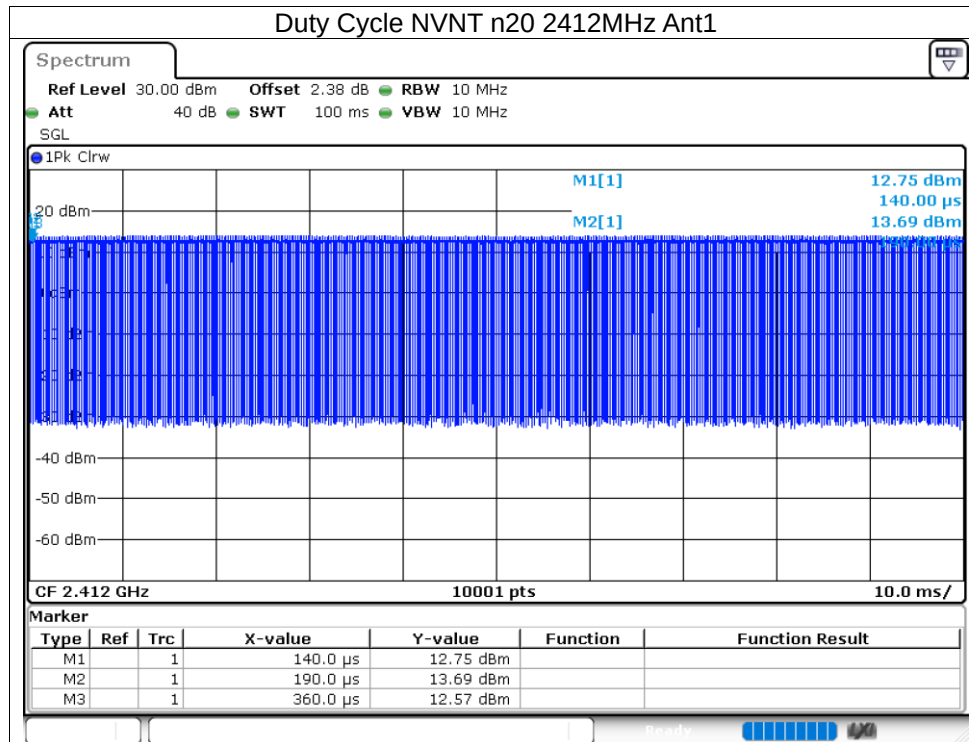
8.1 DUTY CYCLE

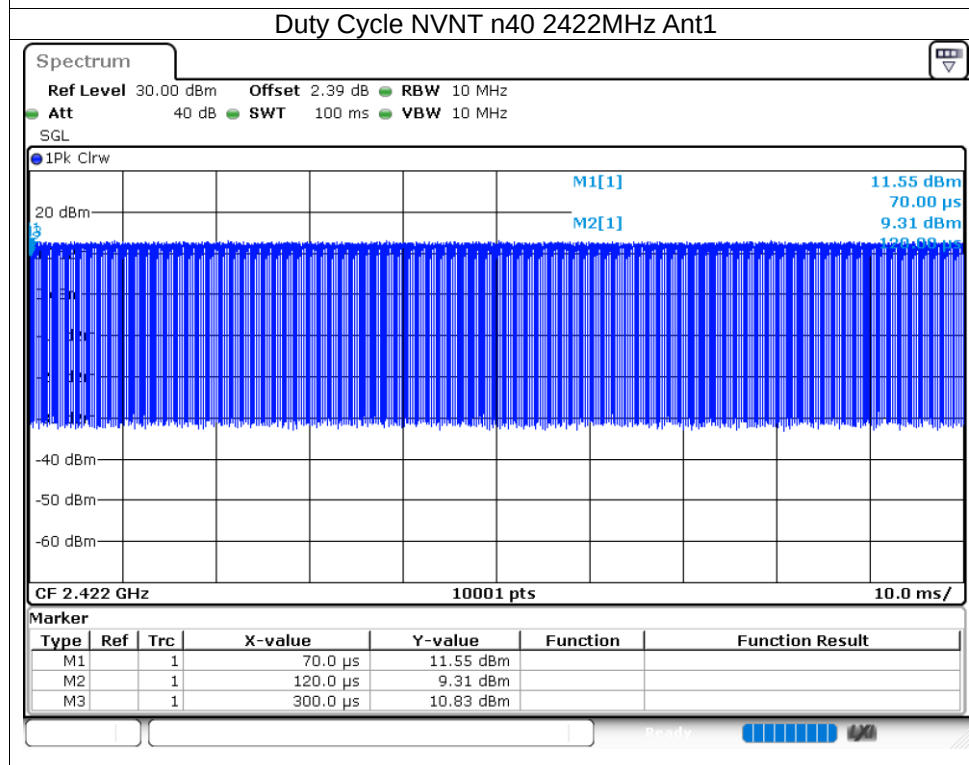
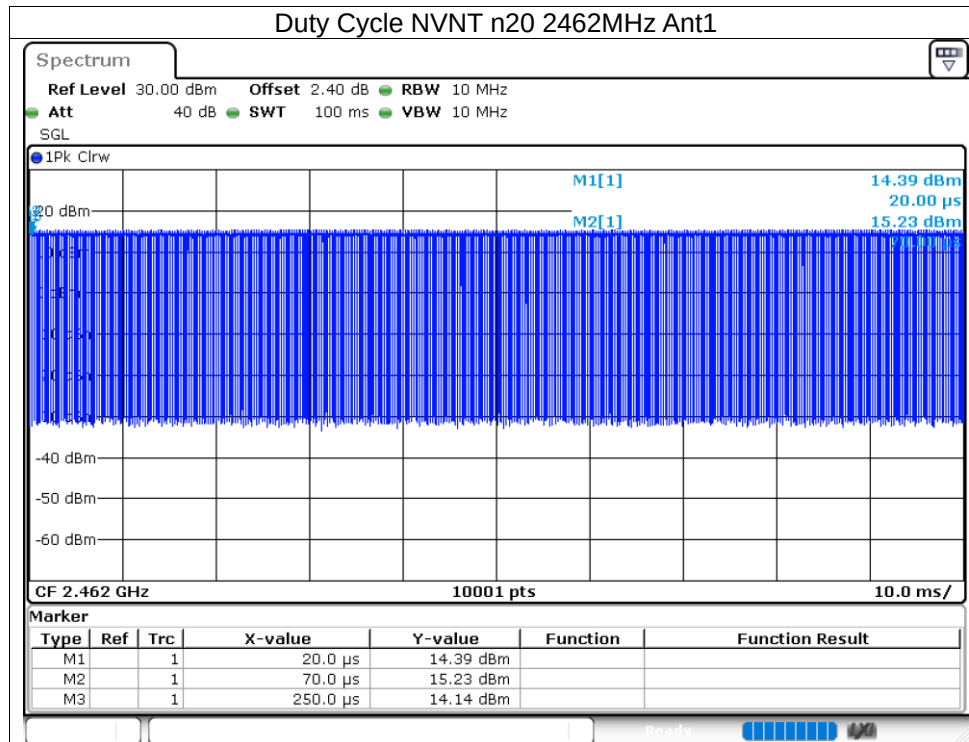
Condition	Mode	Frequency (MHz)	Antenna	Duty Cycle (%)	Correction Factor (dB)	1/T (kHz)
NVNT	b	2412	Ant1	99.56	0.02	0.12
NVNT	b	2437	Ant1	99.57	0.02	0.12
NVNT	b	2462	Ant1	99.56	0.02	0.12
NVNT	g	2412	Ant1	80.75	0.93	6.67
NVNT	g	2437	Ant1	80.69	0.93	7.14
NVNT	g	2462	Ant1	80.56	0.94	7.14
NVNT	n20	2412	Ant1	82.84	0.82	5.88
NVNT	n20	2437	Ant1	83.1	0.8	5.56
NVNT	n20	2462	Ant1	83.06	0.81	5.56
NVNT	n40	2422	Ant1	83.13	0.8	5.56
NVNT	n40	2437	Ant1	83.45	0.79	5.56
NVNT	n40	2452	Ant1	83.28	0.79	5.56
NVNT	ax20	2412	Ant1	87.37	0.59	4
NVNT	ax20	2437	Ant1	87.54	0.58	4
NVNT	ax20	2462	Ant1	87.27	0.59	3.85
NVNT	ax40	2422	Ant1	82.62	0.83	5.56
NVNT	ax40	2437	Ant1	83.25	0.8	5.56
NVNT	ax40	2452	Ant1	83.36	0.79	5.56

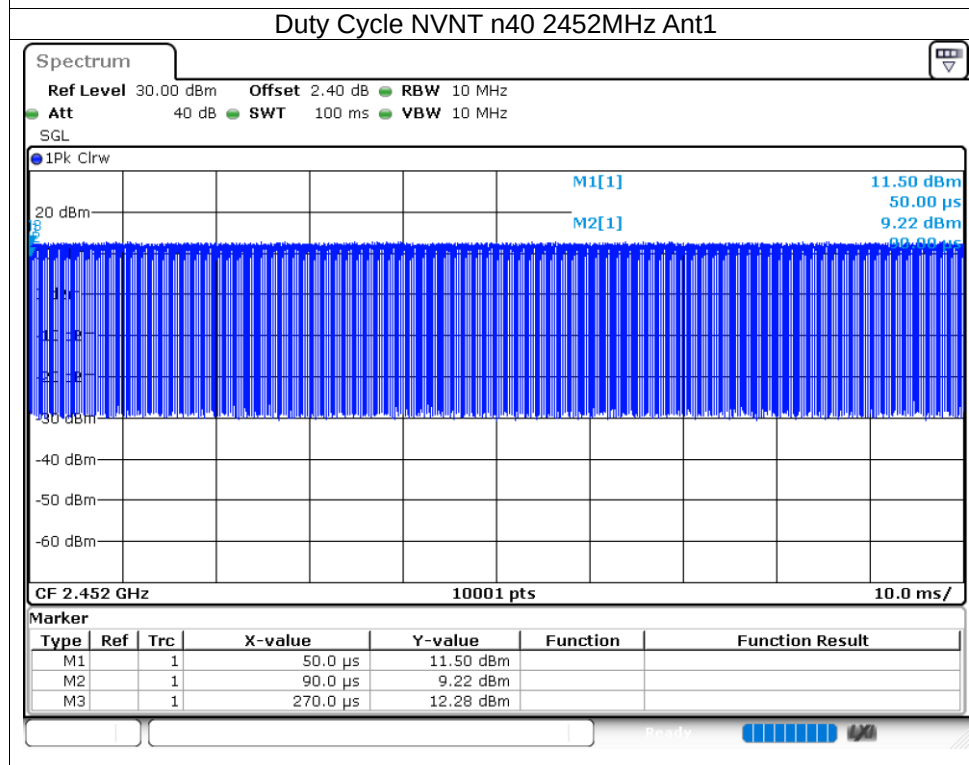
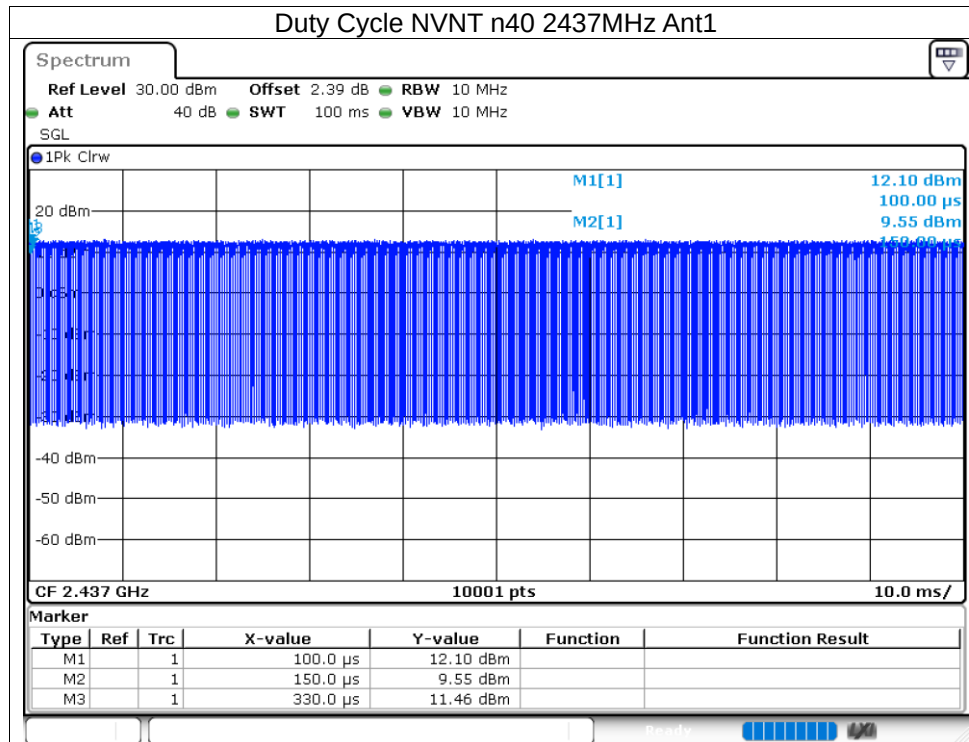


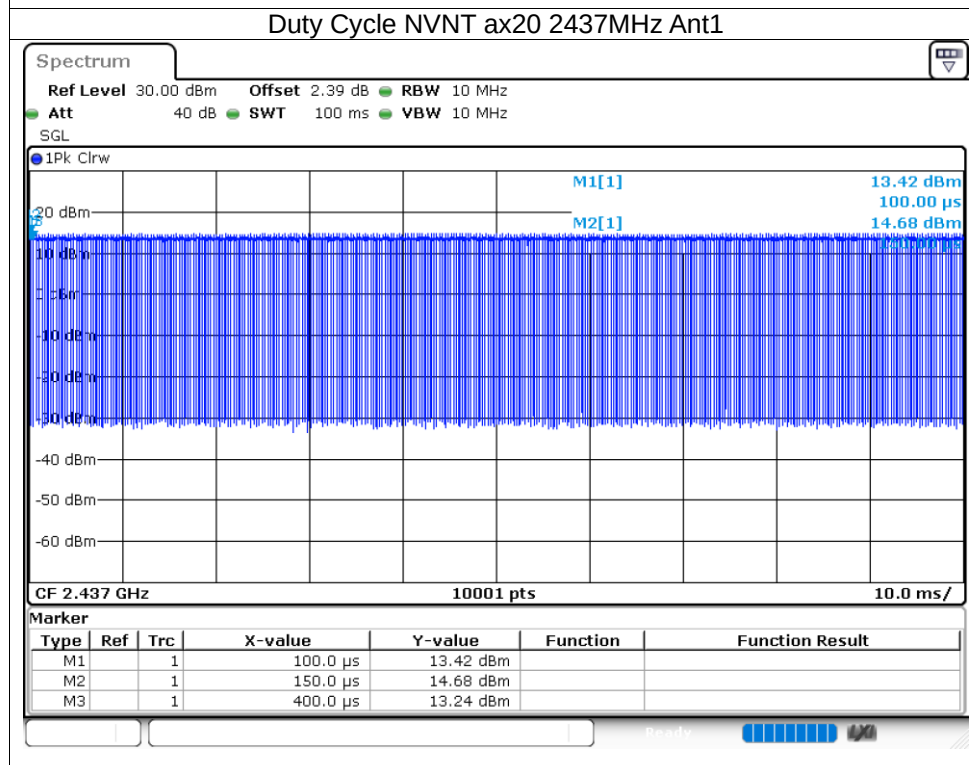
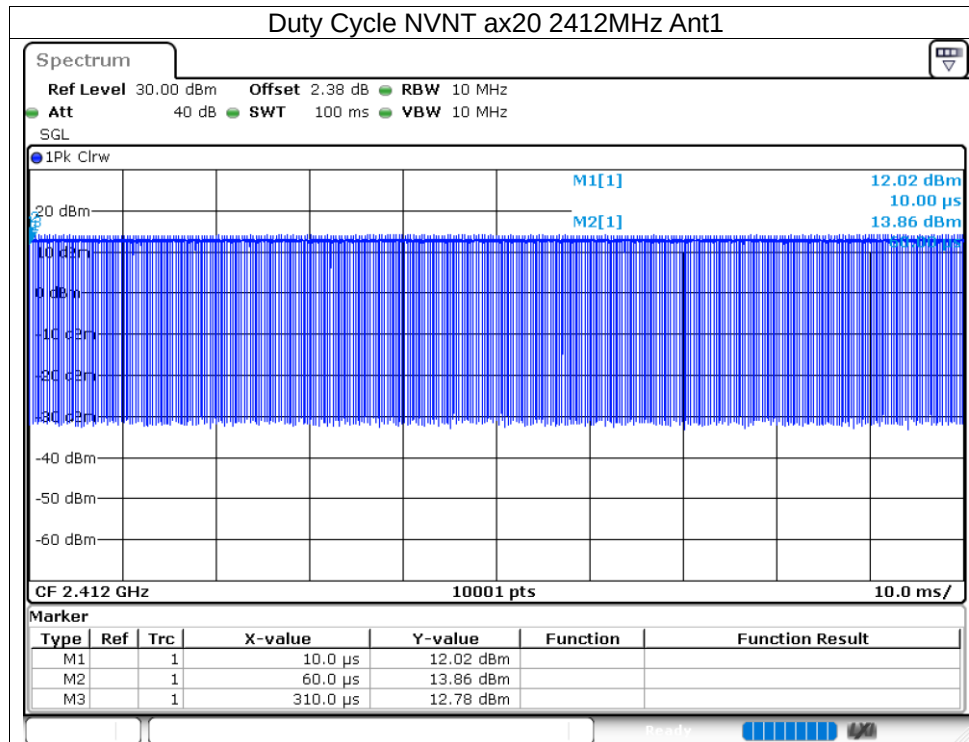


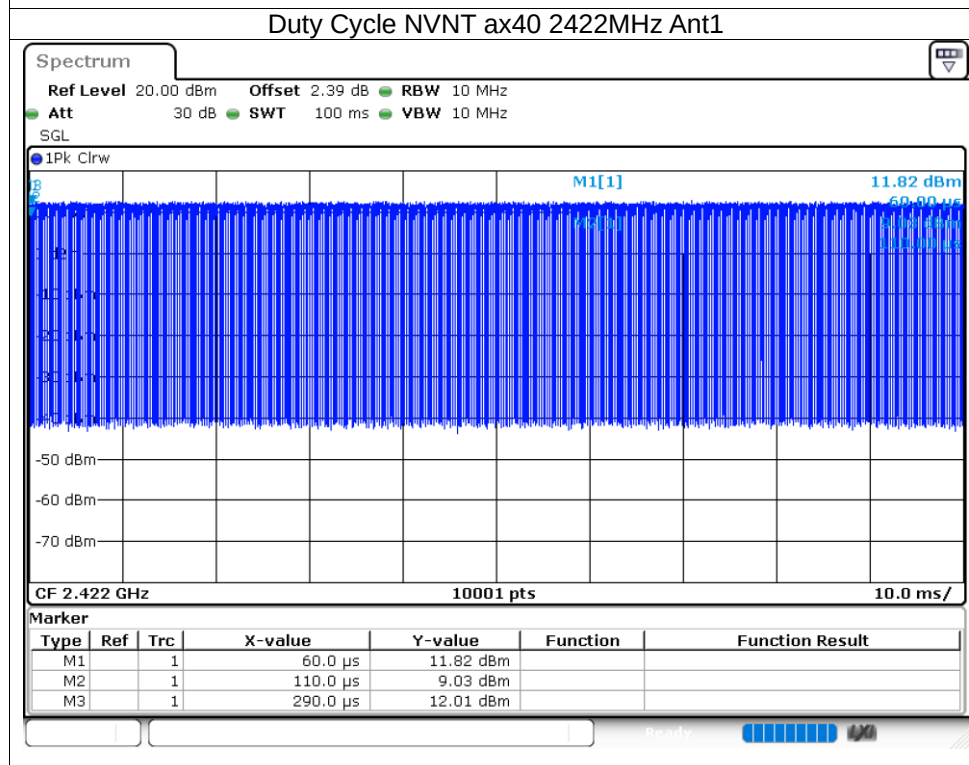
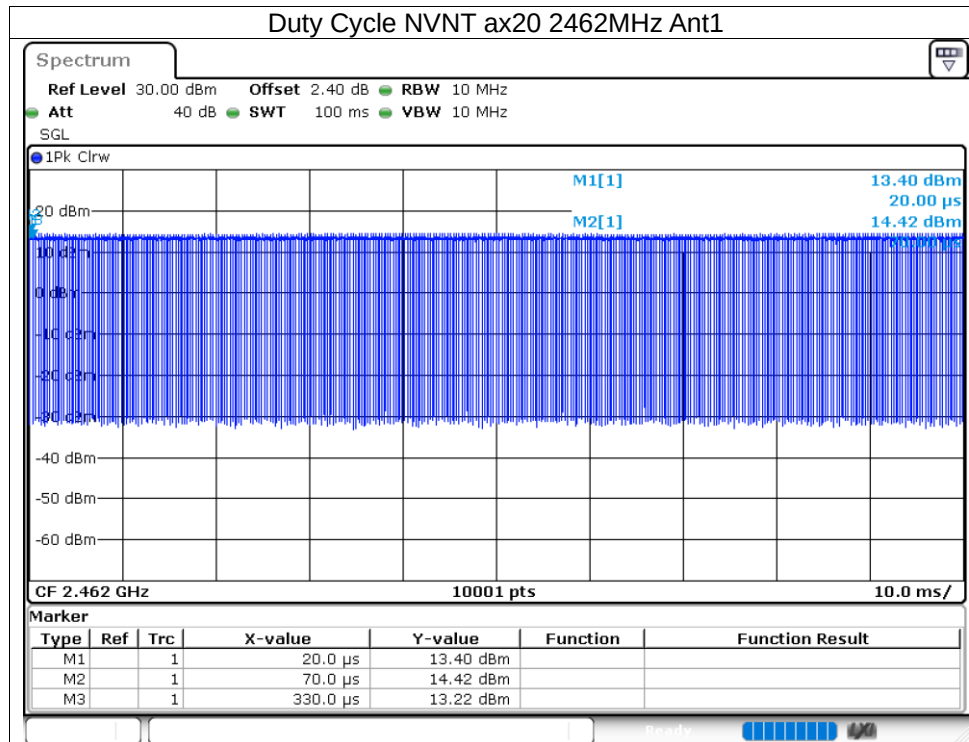


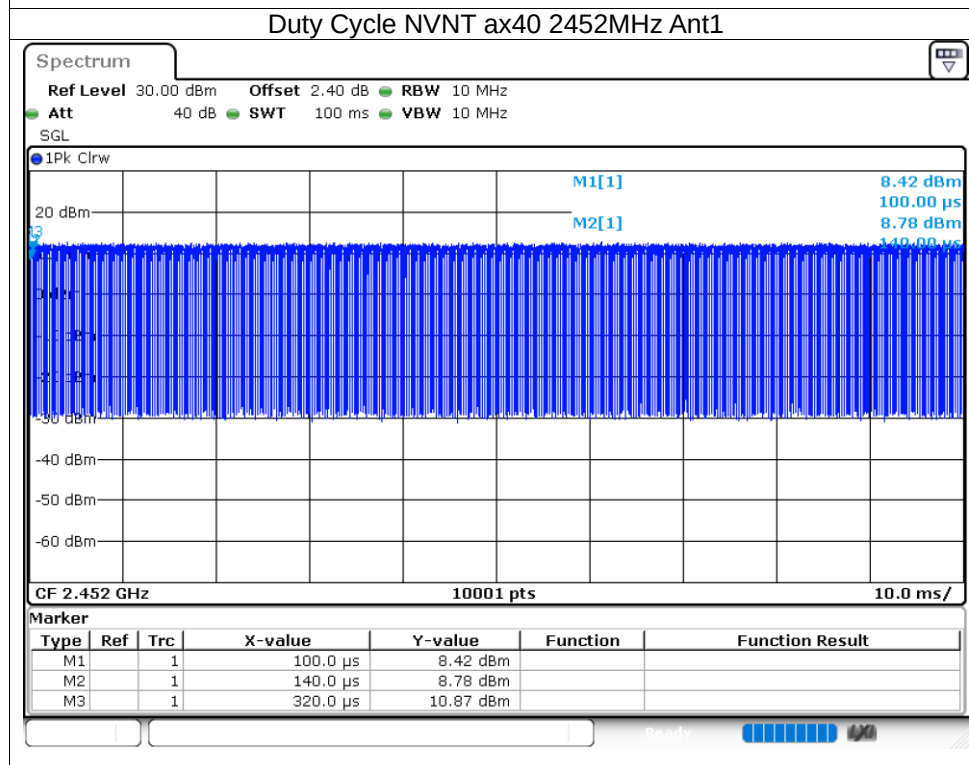
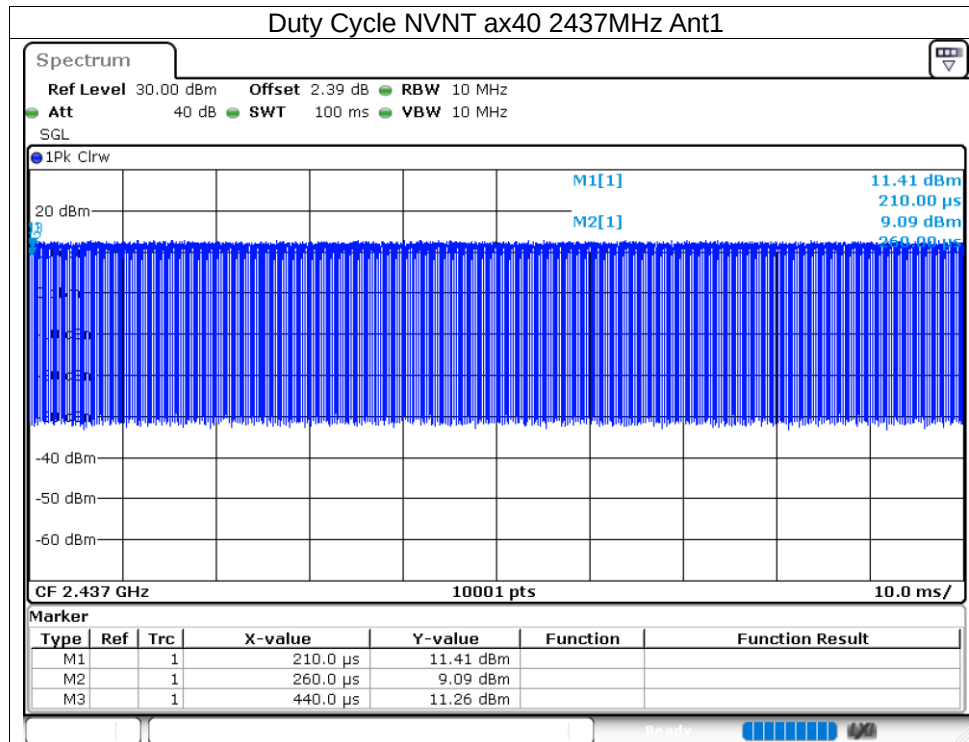










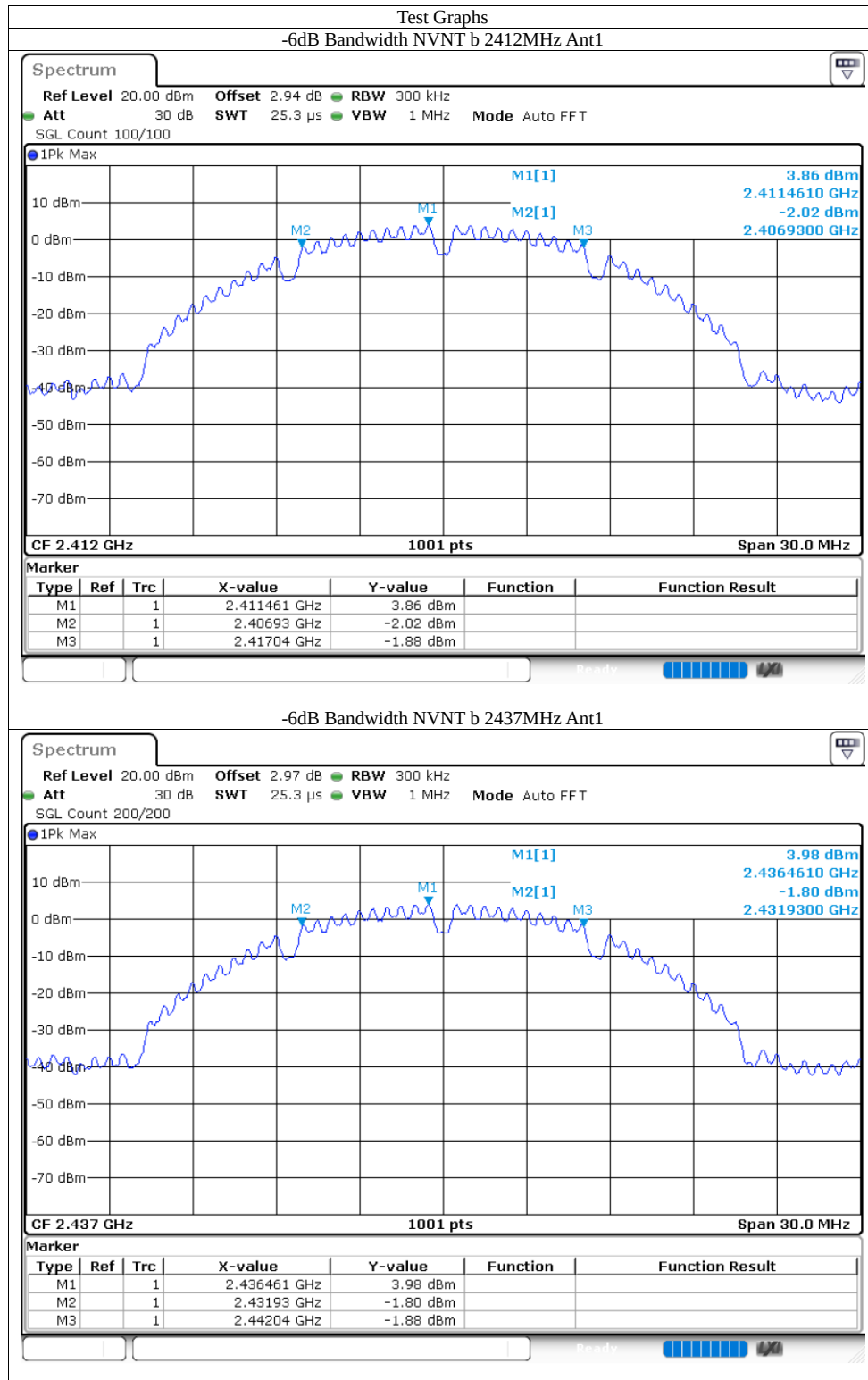


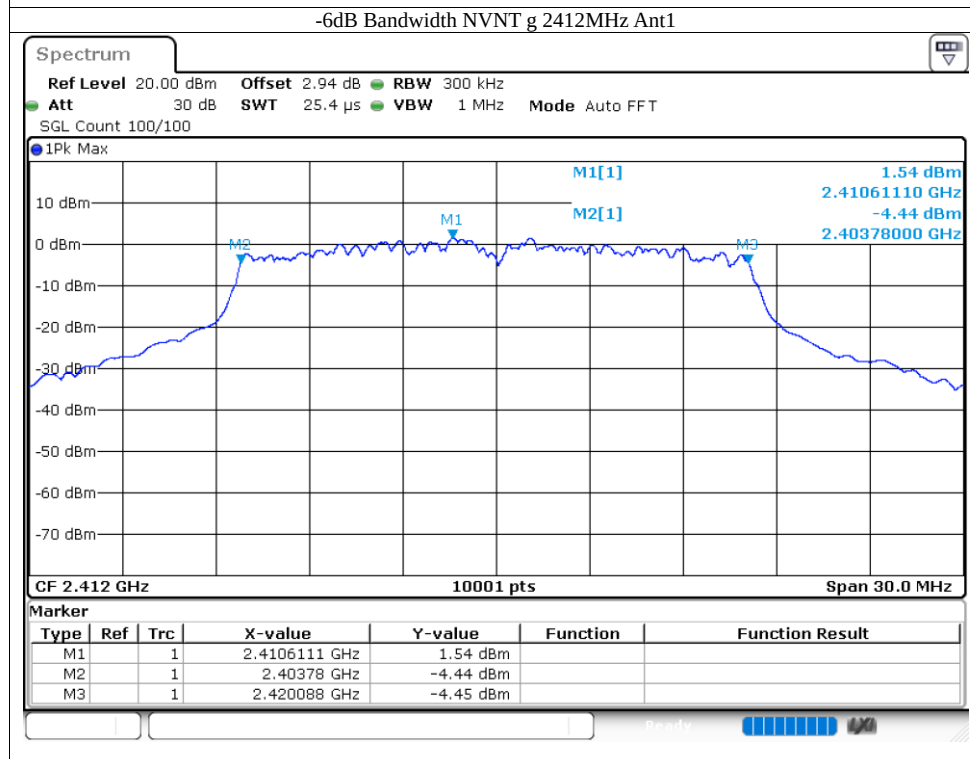
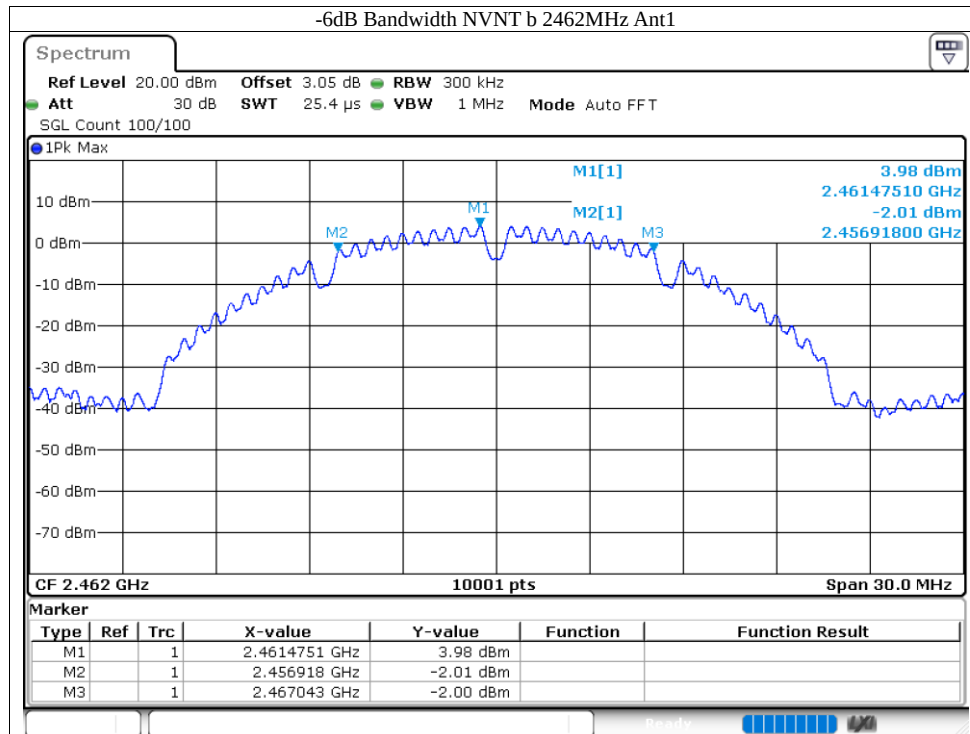
8.2 MAXIMUM CONDUCTED OUTPUT POWER

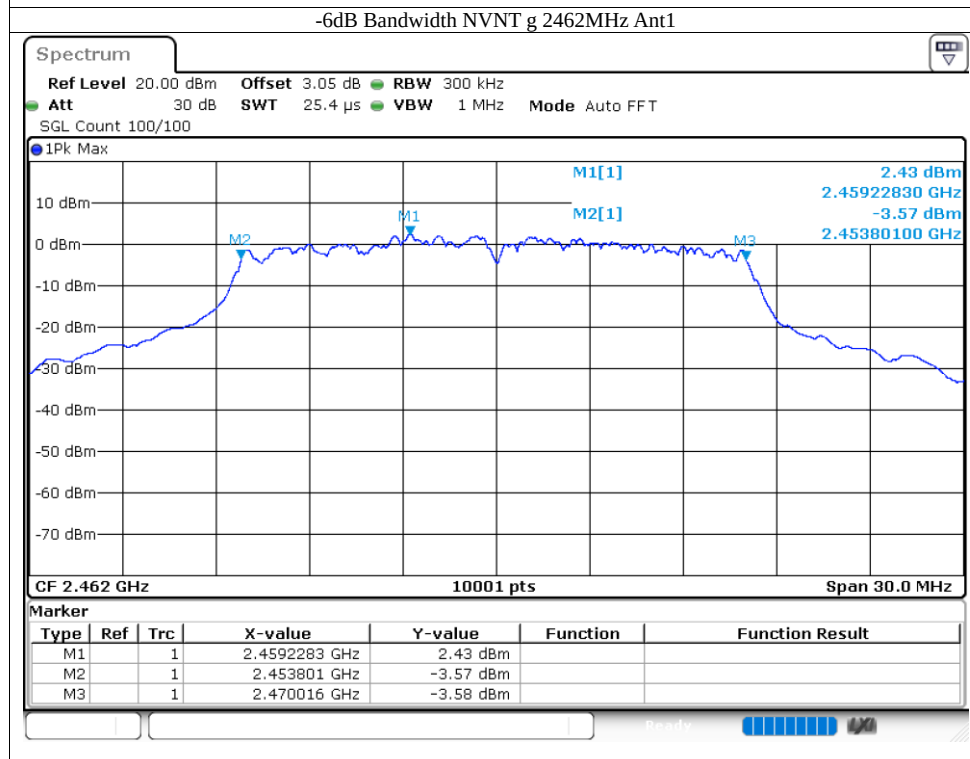
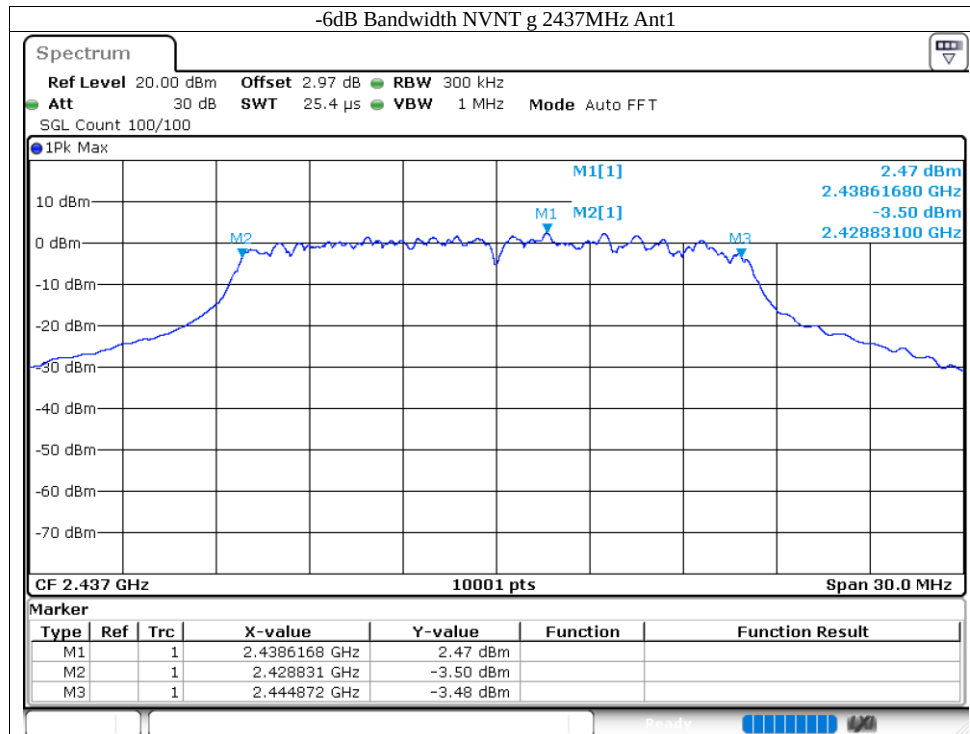
Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	b	2412	Ant1	12.49	0.02	12.51	30	Pass
NVNT	b	2437	Ant1	11.95	0.02	11.97	30	Pass
NVNT	b	2462	Ant1	12.07	0.02	12.09	30	Pass
NVNT	g	2412	Ant1	10.72	0.93	11.65	30	Pass
NVNT	g	2437	Ant1	12.17	0.93	13.1	30	Pass
NVNT	g	2462	Ant1	12.31	0.94	13.25	30	Pass
NVNT	n20	2412	Ant1	10.74	0.82	11.56	30	Pass
NVNT	n20	2437	Ant1	12.39	0.8	13.19	30	Pass
NVNT	n20	2462	Ant1	12.36	0.81	13.17	30	Pass
NVNT	n40	2422	Ant1	10.98	0.8	11.78	30	Pass
NVNT	n40	2437	Ant1	10.82	0.79	11.61	30	Pass
NVNT	n40	2452	Ant1	10.28	0.79	11.07	30	Pass
NVNT	ax20	2412	Ant1	11.08	0.59	11.67	30	Pass
NVNT	ax20	2437	Ant1	11.29	0.58	11.87	30	Pass
NVNT	ax20	2462	Ant1	11.5	0.59	12.09	30	Pass
NVNT	ax40	2422	Ant1	10.74	0.83	11.57	30	Pass
NVNT	ax40	2437	Ant1	10.7	0.8	11.5	30	Pass
NVNT	ax40	2452	Ant1	10.95	0.79	11.74	30	Pass

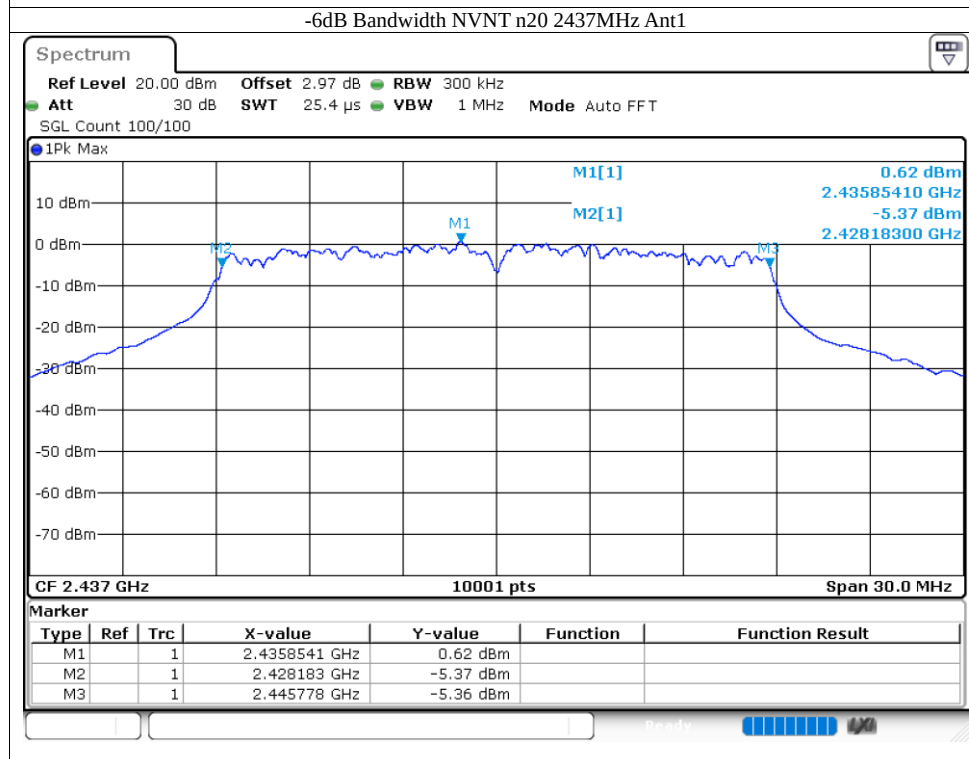
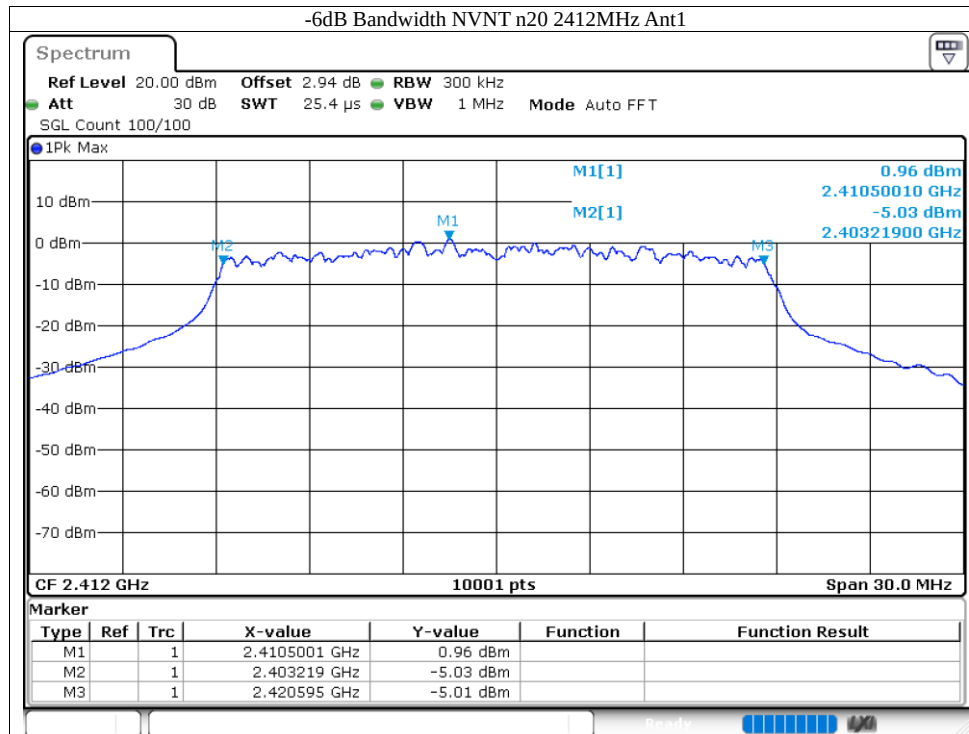
8.3 -6dB BANDWIDTH

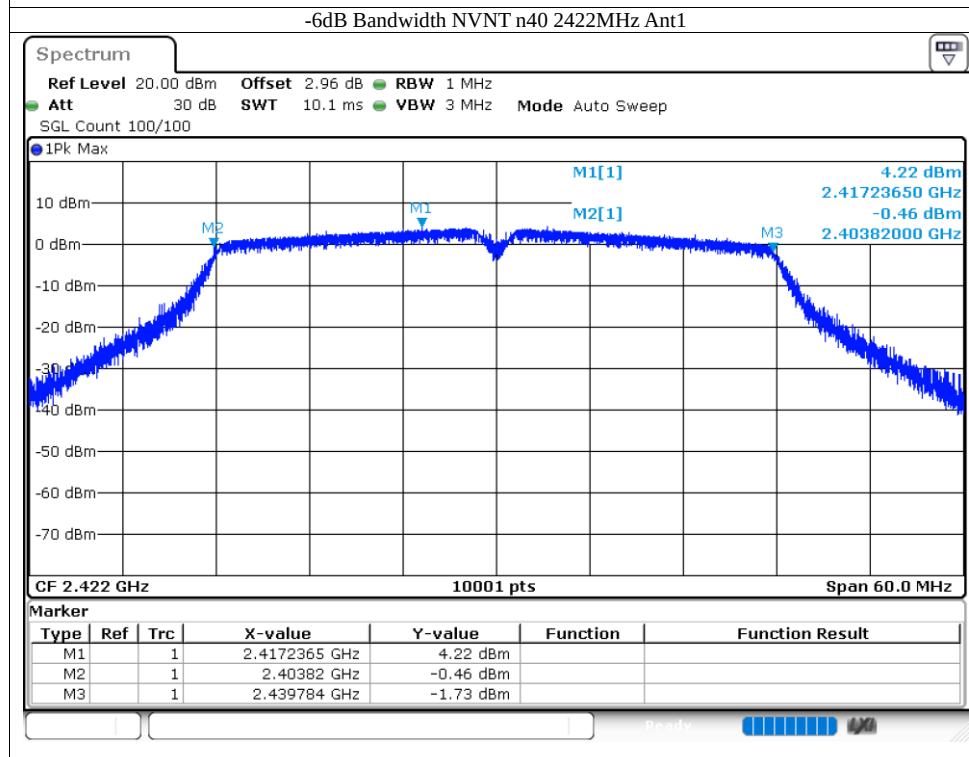
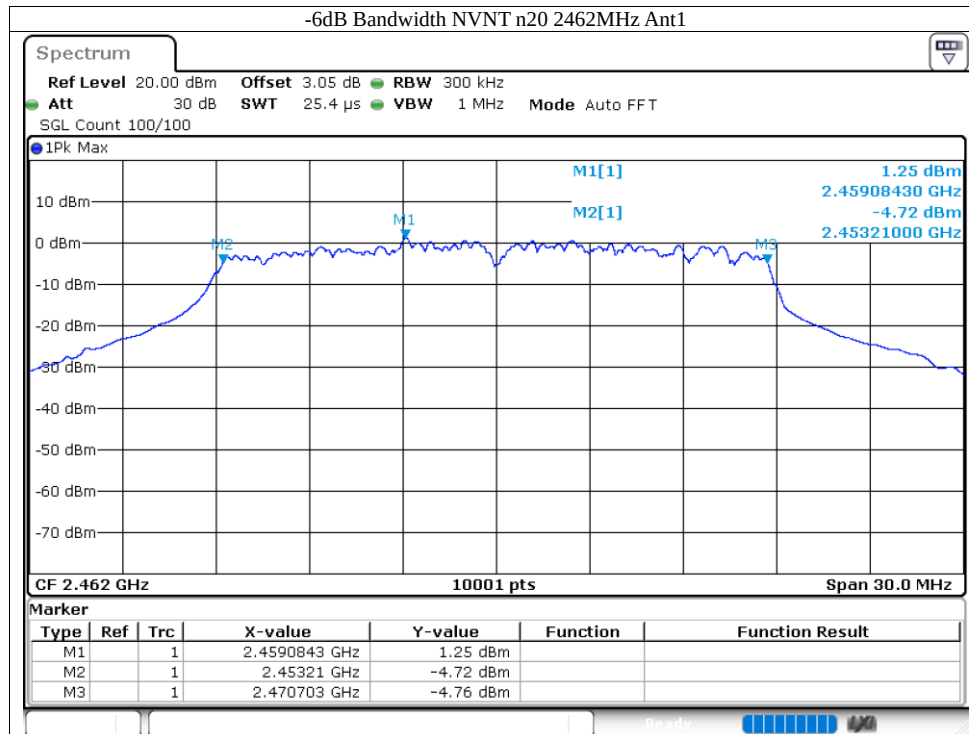
Condition	Mode	Frequency (MHz)	Antenna	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	b	2412	Ant1	10.11	0.5	Pass
NVNT	b	2437	Ant1	10.11	0.5	Pass
NVNT	b	2462	Ant1	10.125	0.5	Pass
NVNT	g	2412	Ant1	16.308	0.5	Pass
NVNT	g	2437	Ant1	16.041	0.5	Pass
NVNT	g	2462	Ant1	16.215	0.5	Pass
NVNT	n20	2412	Ant1	17.376	0.5	Pass
NVNT	n20	2437	Ant1	17.595	0.5	Pass
NVNT	n20	2462	Ant1	17.493	0.5	Pass
NVNT	n40	2422	Ant1	35.964	0.5	Pass
NVNT	n40	2437	Ant1	35.598	0.5	Pass
NVNT	n40	2452	Ant1	35.82	0.5	Pass
NVNT	ax20	2412	Ant1	18.138	0.5	Pass
NVNT	ax20	2437	Ant1	18.693	0.5	Pass
NVNT	ax20	2462	Ant1	18.52	0.5	Pass
NVNT	ax40	2422	Ant1	37.242	0.5	Pass
NVNT	ax40	2437	Ant1	36.948	0.5	Pass
NVNT	ax40	2452	Ant1	37.476	0.5	Pass

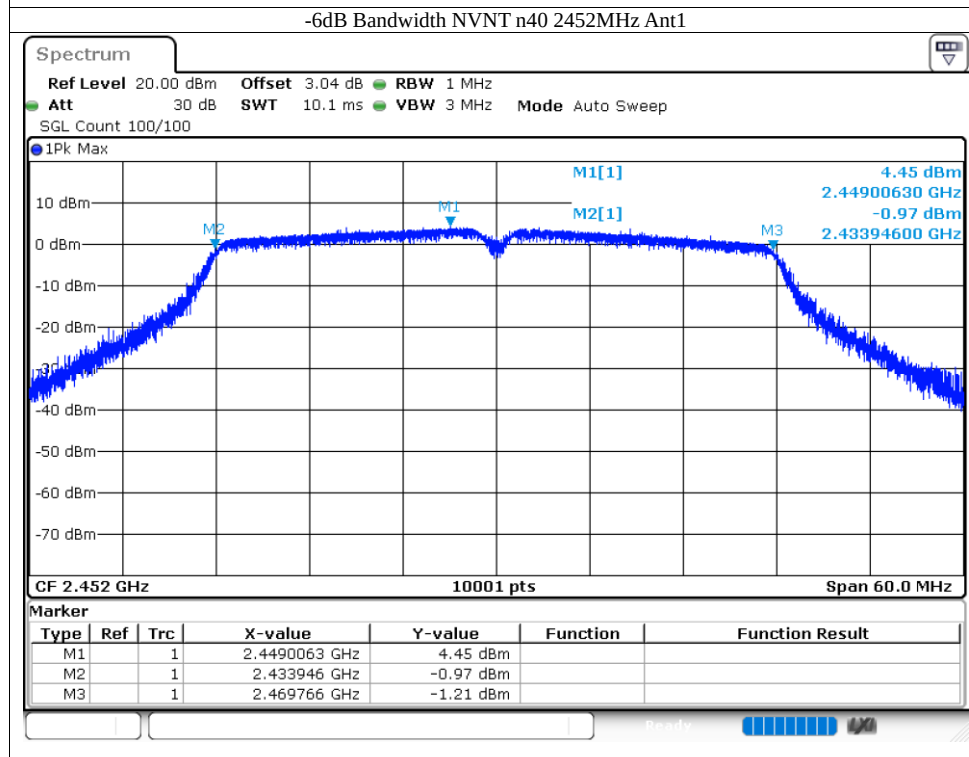
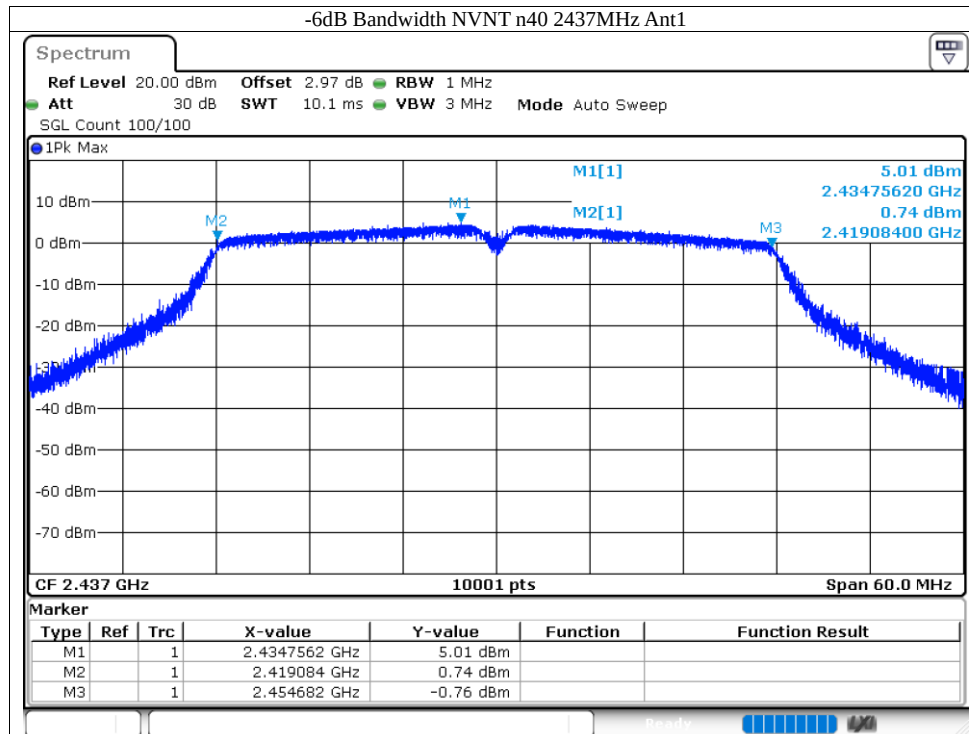


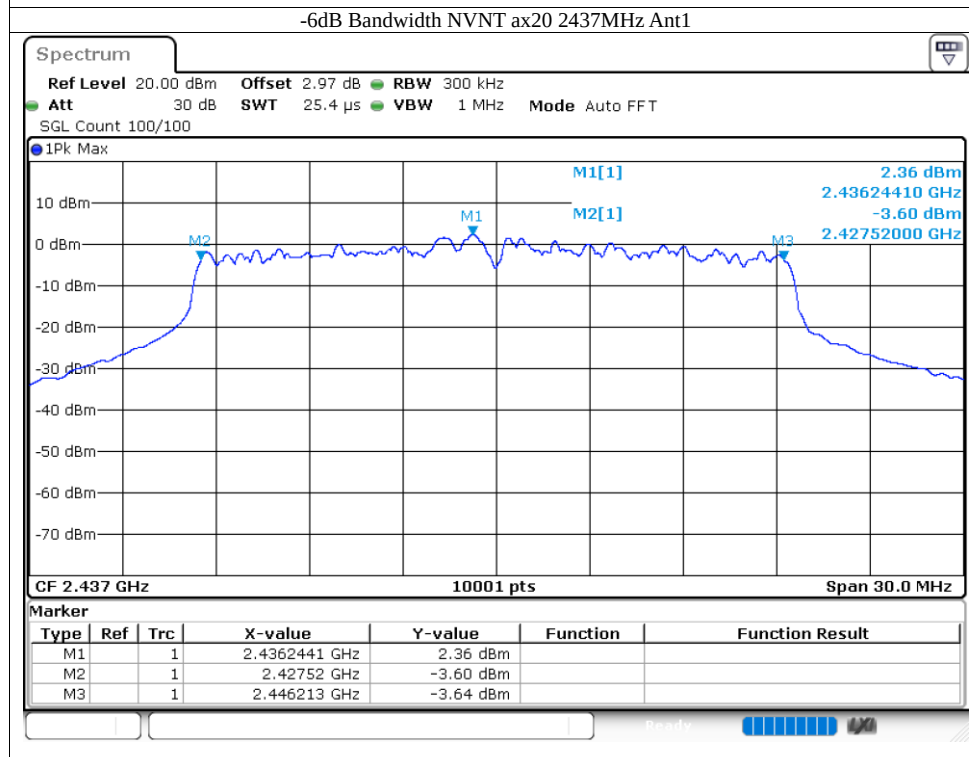
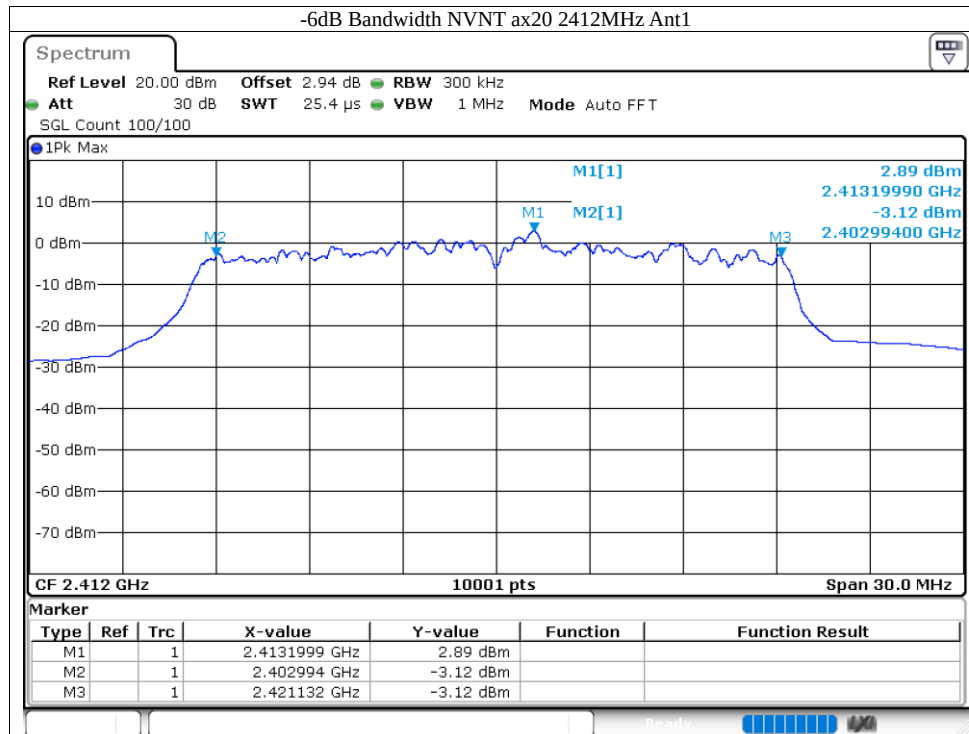


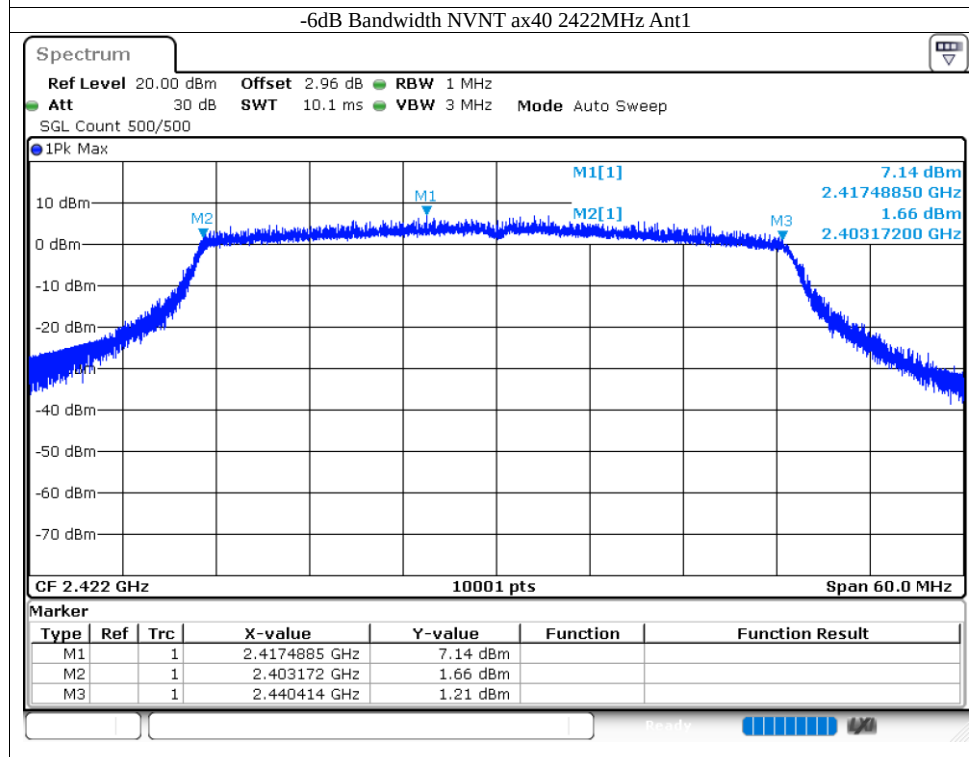
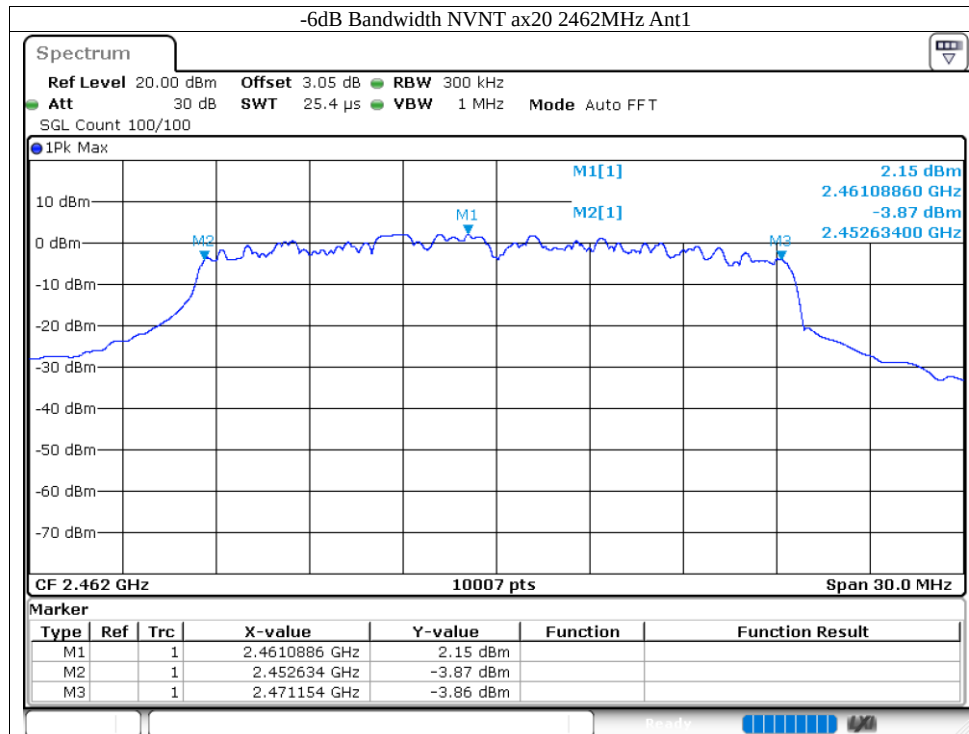


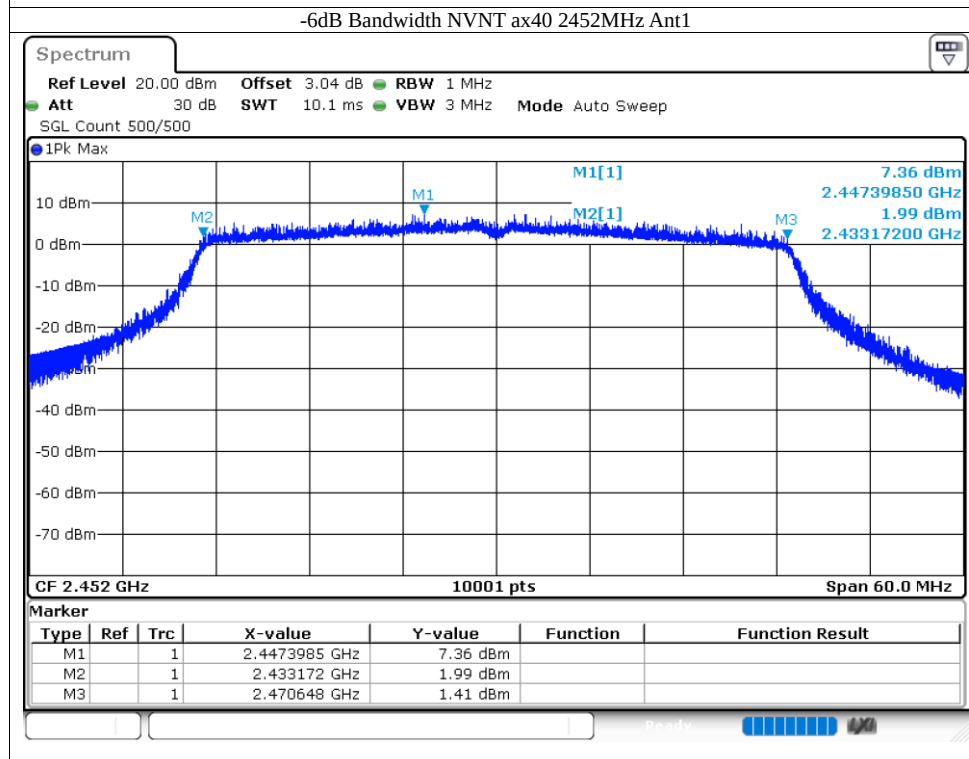
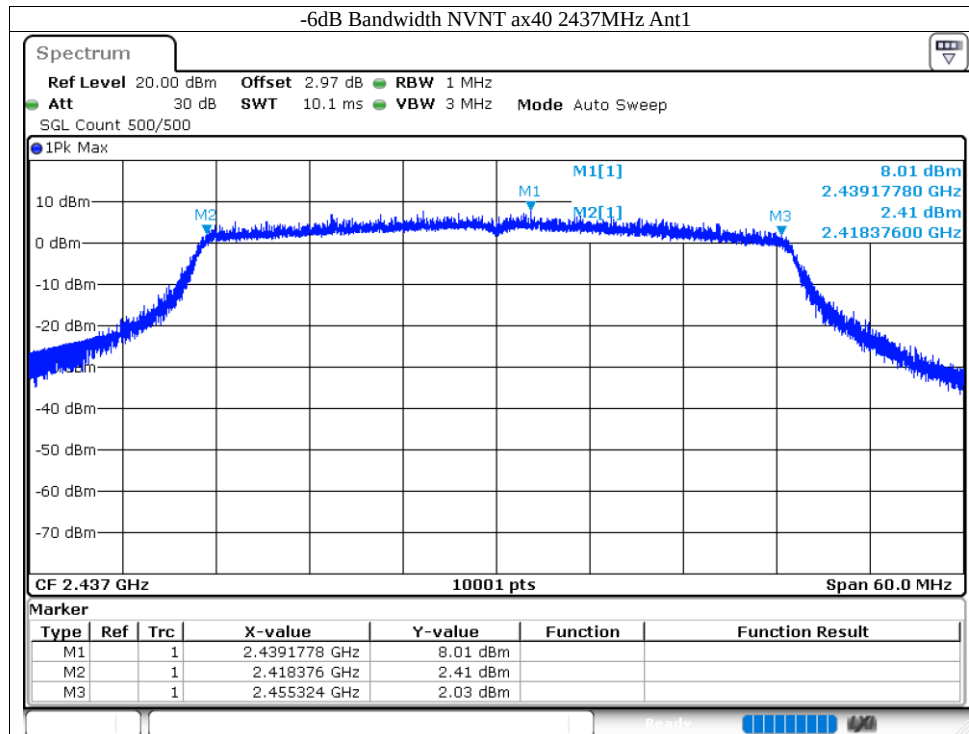












8.4 OCCUPIED CHANNEL BANDWIDTH

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	b	2412	Ant1	13.516
NVNT	b	2437	Ant1	13.367
NVNT	b	2462	Ant1	13.307
NVNT	g	2412	Ant1	16.513
NVNT	g	2437	Ant1	16.645
NVNT	g	2462	Ant1	16.609
NVNT	n20	2412	Ant1	17.701
NVNT	n20	2437	Ant1	17.608
NVNT	n20	2462	Ant1	17.635
NVNT	n40	2422	Ant1	36.026
NVNT	n40	2437	Ant1	35.978
NVNT	n40	2452	Ant1	35.972
NVNT	ax20	2412	Ant1	18.865
NVNT	ax20	2437	Ant1	18.76
NVNT	ax20	2462	Ant1	18.727
NVNT	ax40	2422	Ant1	37.502
NVNT	ax40	2437	Ant1	37.472
NVNT	ax40	2452	Ant1	37.472

