

FCC RADIO TEST REPORT

FCC ID: 2AO2D-M055FGN

Product: Formovie Mini Projector Dice

Trade Mark: FORMOVIE

Model No.: M055FGN

Family Model: M055*****(*=0-9,A-Z,- or blank, indicates for different market purposes)

Report No.: S19121200901004

Issue Date: 06 Jan. 2020

Prepared for

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TEST RESULT CERTIFICATION**Applicant's name** : Fengmi (Beijing) Technology Co., LtdAddress : 301,3F,Building 3,No.10,Barracks South
Street,RenheTown,ShunyiDistrict,Beijing,China**Manufacturer's Name** : Fengmi (Beijing) Technology Co., LtdAddress : 301,3F,Building 3,No.10,Barracks South
Street,RenheTown,ShunyiDistrict,Beijing,China**Product description**

Product name..... : Formovie Mini Projector Dice

Model and/or type reference : M055FGN

Family Model..... : M055*****(*=0-9,A-Z,- or blank, indicates for different market
purposes)**Standards** : FCC Part15.407Test procedure..... ANSI C63.10-2013 and KDB 789033 D02 General UNII Test
Procedures New Rules v02r01
FCC KDB 905462 D02 UNII DFS Compliance Procedures New
Rules v02
FCC KDB 662911 D01 Multiple Transmitter Output v02r01
FCC KDB 662911 D02 MIMO With Cross Polarized Antenna V01

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

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Date of Test

Date (s) of performance of tests..... 12 Dec. 2019 ~ 03 Jan, 2020

Date of Issue..... 06 Jan, 2020

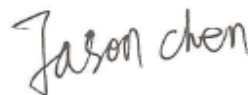
Test Result..... **Pass**

Testing Engineer : _____



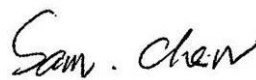
(Allen Liu)

Technical Manager : _____



(Jason Chen)

Authorized Signatory : _____



(Sam Chen)

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Revision History

[illegible]

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)(6)	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	

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) This device operates with a duty cycle greater than 99%

1.1 FACILITIES AND ACCREDITATIONS

FACILITIES

All measurement facilities used to collect the measurement data are located at
1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
Shenzhen, Guangdong, 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 Laboratory has been assessed and proved to be in compliance with
CNAS-CL01:2006 (identical to ISO/IEC 17025:2005)
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 : 1/F, Building E, Fenda Science Park Sanwei, Xixiang, Bao'an District
Shenzhen, Guangdong, China

1.2 MEASUREMENT UNCERTAINTY

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

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

1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF EUT

Equipment	Formovie Mini Projector Dice
Trade Mark	FORMOVIE
Model Name	M055FGN
Family Model	M055*****(*=0-9,A-Z,- or blank, indicates for different market purposes)
Model Difference	All models are the same circuit and RF module, except different model for different market purposes.
FCC ID	2AO2D-M055FGN
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 Antenna 1: FPCB Print Antenna Antenna 2: FPCB Print Antenna
	Antenna Gain Antenna 1: 5.82dBi Antenna 2: 5.57dBi
	Smart system ☒ SISO for 802.11a ☒ MIMO for 802.11n/ac
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.	
Ratings	DC 19V from Adapter
Adapter	☒ Adapter supply: Model: HKA09019047-6U Input: 100-240V~50/60Hz 1.5A Output: 19.0V---4.74A
Battery	N/A
Connecting I/O Port(s)	Please refer to the User's Manual

HW Version	E.FM M055G T962X
SW Version	Android 9

Note:

- For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.
- 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				
	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				

The module for 5G WIFI has two antennas, and different modes support different transmit mode what describe as Following form:

Mode	Tx/Rx
802.11a	1TX, 1RX
802.11n/ac	1TX/2TX, 1RX/2RX

For 5GHz mode, Antenna 1,2 are transmitting, each with the same directional gain.

For MIMO mode, Directional gain= $[10\log(10^{G1/20} + 10^{G2/20})/N_{ANT}]$ dBi =8.71 dBi in 5GHz
the 802.11n(20/40) ac(20/40/80) 5GHz has MIMO mode.

Note: G1 means antenna gain for ANT 1 in dBi.

G2 means antenna gain for ANT 2 in dBi.

N_{ANT} means the number of Antennas.

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.

Pretest Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 4	802.11 ac80 CH 42/CH 155

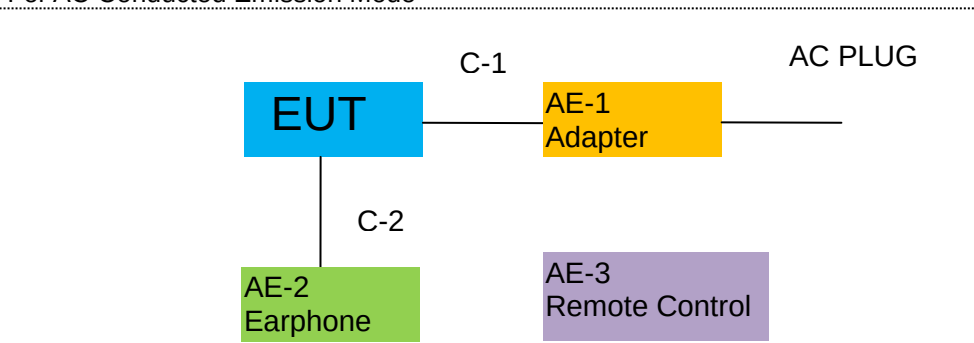
For Radiated Emission	
Final Test Mode	Description
Mode 1	Normal Link Mode
Mode 2	802.11a / n/ ac 20 CH36/ CH40/ CH 48 802.11a /n/ ac 20 CH149/ CH157/ CH 165
Mode 3	802.11n/ ac40 CH38/ CH 46 802.11n/ ac40 CH 151 / CH 159
Mode 4	802.11 ac80 CH 42/CH 155

Note:

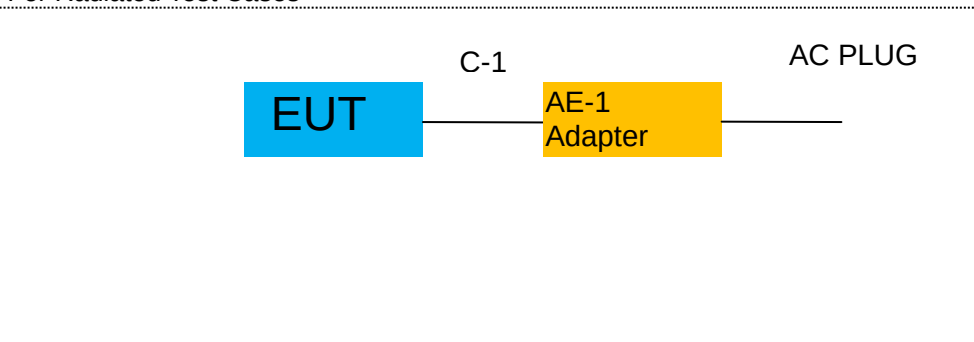
- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported

1.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

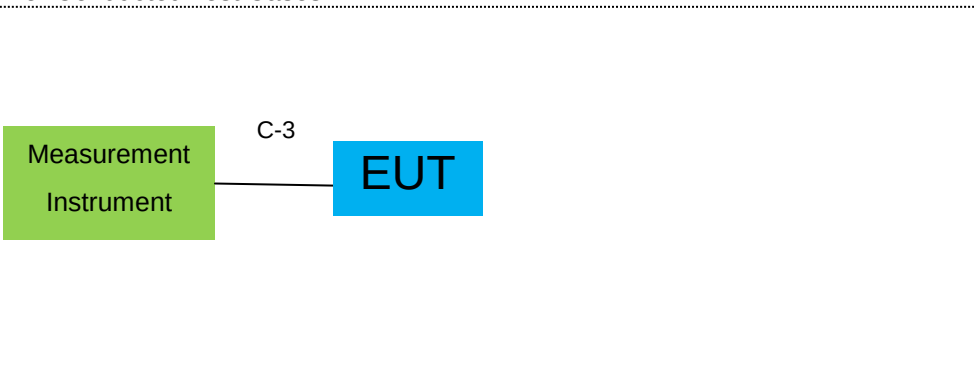
For AC Conducted Emission Mode



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	Brand	Model/Type No.	Series No.	Note
AE-1	Adapter	N/A	N/A	N/A	Peripherals
AE-2	Earphone	N/A	N/A	N/A	Peripherals
AE-3	Remote Control	N/A	N/A	N/A	Peripherals

Item	Cable Type	Shielded Type	Ferrite Core	Length	Note
C-1	Power Cable	NO	NO	1.2m	C-1
C-2	Earphone Cable	NO	NO	1.2m	C-2
C-3	RF Cable	YES	NO	0.1m	C-3

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.

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	E4407B	MY45108040	2019.05.13	2020.05.12	1 year
2	Spectrum Analyzer	Agilent	N9020A	MY49100060	2019.08.28	2020.08.27	1 year
3	Spectrum Analyzer	R&S	FSV40	101417	2019.08.28	2020.08.27	1 year
4	Test Receiver	R&S	ESPI7	101318	2019.05.13	2020.05.12	1 year
5	Bilog Antenna	TESEQ	CBL6111D	31216	2019.04.15	2020.04.14	1 year
6	50Ω Coaxial Switch	Anritsu	MP59B	6200983705	2018.05.19	2020.05.18	2 year
7	Horn Antenna	EM	EM-AH-10180	2011071402	2019.04.15	2020.04.14	1 year
8	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	803	2019.12.11	2020.12.10	1 year
9	Amplifier	EMC	EMC051835SE	980246	2019.08.06	2020.08.05	1 year
10	Active Loop Antenna	SCHWARZBECK	FMZB 1519B	055	2019.12.11	2020.12.10	1 year
11	Power Meter	DARE	RPR3006W	15100041SN084	2019.08.06	2020.08.05	1 year
12	Test Cable (9KHz-30MHz)	N/A	R-01	N/A	2017.04.21	2020.04.20	3 year
13	Test Cable (30MHz-1GHz)	N/A	R-02	N/A	2017.04.21	2020.04.20	3 year
14	High Test Cable(1G-40GHz)	N/A	R-03	N/A	2017.04.21	2020.04.20	3 year
15	High Test Cable(1G-40GHz)	N/A	R-04	N/A	2017.04.21	2020.04.20	3 year
16	Filter	TRILTHIC	2400MHz	29	2017.04.19	2020.04.18	3 year
17	temporary antenna connector (Note)	NTS	R001	N/A	N/A	N/A	N/A
18	MXG Vector Signal Generator	Agilent	N5182A	MY47070317	2019.03.28	2020.03.27	1 year

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	2019.05.13	2020.05.12	1 year
2	LISN	R&S	ENV216	101313	2019.04.15	2020.04.14	1 year
3	LISN	SCHWARZBECK	NNLK 8129	8129245	2019.05.13	2020.05.12	1 year
4	50Ω Coaxial Switch	ANRITSU CORP	MP59B	6200983704	2018.05.19	2020.05.18	2 year
5	Test Cable (9KHz-30MHz)	N/A	C01	N/A	2017.04.21	2020.04.20	3 year
6	Test Cable (9KHz-30MHz)	N/A	C02	N/A	2017.04.21	2020.04.20	3 year
7	Test Cable (9KHz-30MHz)	N/A	C03	N/A	2017.04.21	2020.04.20	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.

2. EMC EMISSION TEST

2.1 CONDUCTED EMISSION MEASUREMENT

2.1.1 APPLICABLE STANDARD

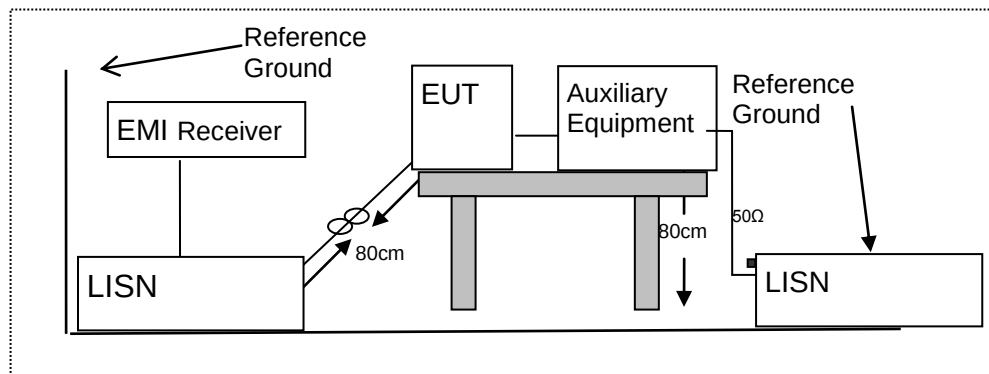
According to FCC Part 15.207(a)

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 C63.10-2013 Conducted emissions the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

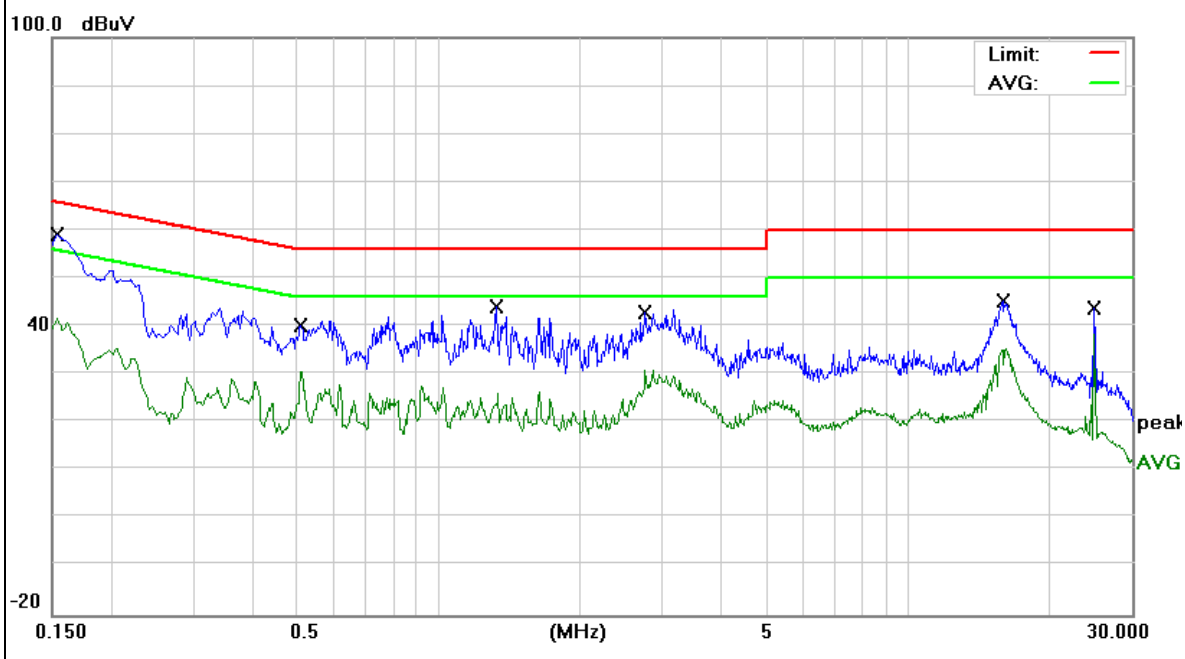
1. The EUT was placed 0.4 meter from the conducting wall of the shielding room.
2. The EUT was placed on a table which is 0.8m above ground plane.
3. Connect EUT to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The 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 :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 19V 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
0.1539	49.32	9.75	59.07	65.78	-6.71	QP
0.1539	31.76	9.75	41.51	55.78	-14.27	AVG
0.5100	30.35	9.74	40.09	56.00	-15.91	QP
0.5100	20.89	9.74	30.63	46.00	-15.37	AVG
1.3300	34.37	9.75	44.12	56.00	-11.88	QP
1.3300	16.18	9.75	25.93	46.00	-20.07	AVG
2.7620	33.01	9.82	42.83	56.00	-13.17	QP
2.7620	21.17	9.82	30.99	46.00	-15.01	AVG
15.9618	35.02	10.12	45.14	60.00	-14.86	QP
15.9618	25.08	10.12	35.20	50.00	-14.80	AVG
25.0259	32.91	10.72	43.63	60.00	-16.37	QP
25.0259	27.61	10.72	38.33	50.00	-11.67	AVG

Remark:

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

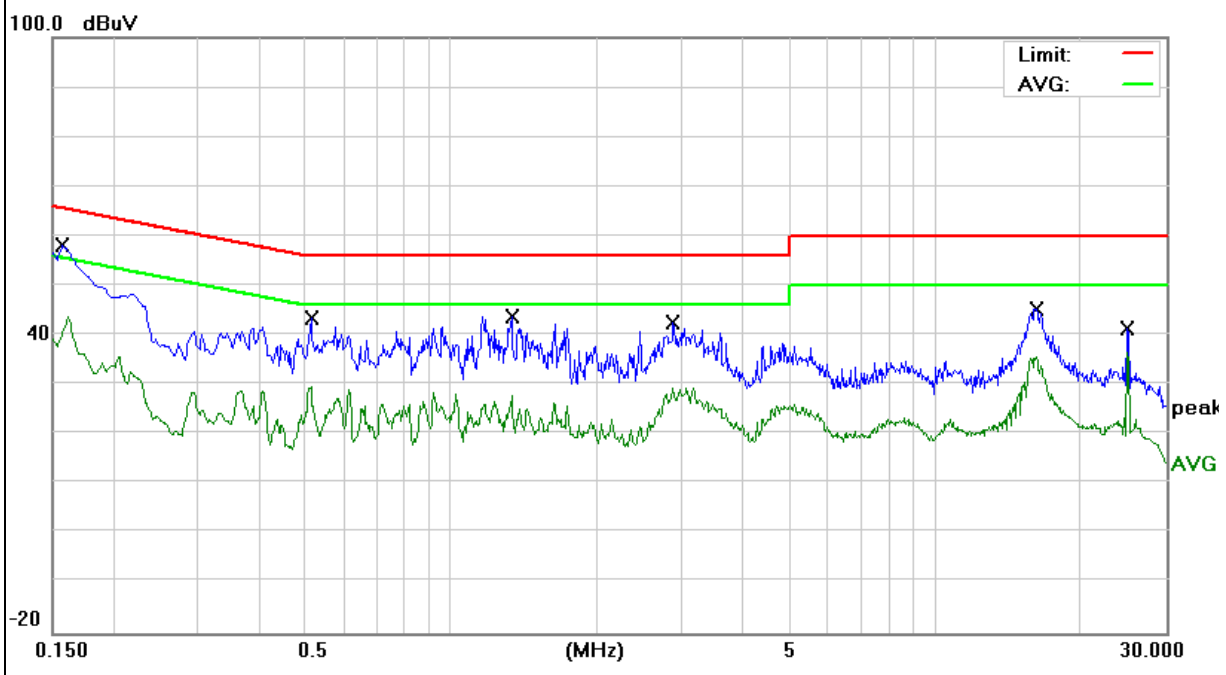


EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 19V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.2G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	48.42	9.74	58.16	65.56	-7.40	QP
0.1580	34.01	9.74	43.75	55.56	-11.81	AVG
0.5140	33.78	9.75	43.53	56.00	-12.47	QP
0.5140	19.98	9.75	29.73	46.00	-16.27	AVG
1.3340	34.12	9.76	43.88	56.00	-12.12	QP
1.3340	17.99	9.76	27.75	46.00	-18.25	AVG
2.8699	32.59	9.86	42.45	56.00	-13.55	QP
2.8699	19.45	9.86	29.31	46.00	-16.69	AVG
16.1858	35.24	10.11	45.35	60.00	-14.65	QP
16.1858	25.66	10.11	35.77	50.00	-14.23	AVG
24.9377	30.74	10.65	41.39	60.00	-18.61	QP
24.9377	26.02	10.65	36.67	50.00	-13.33	AVG

Remark:

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

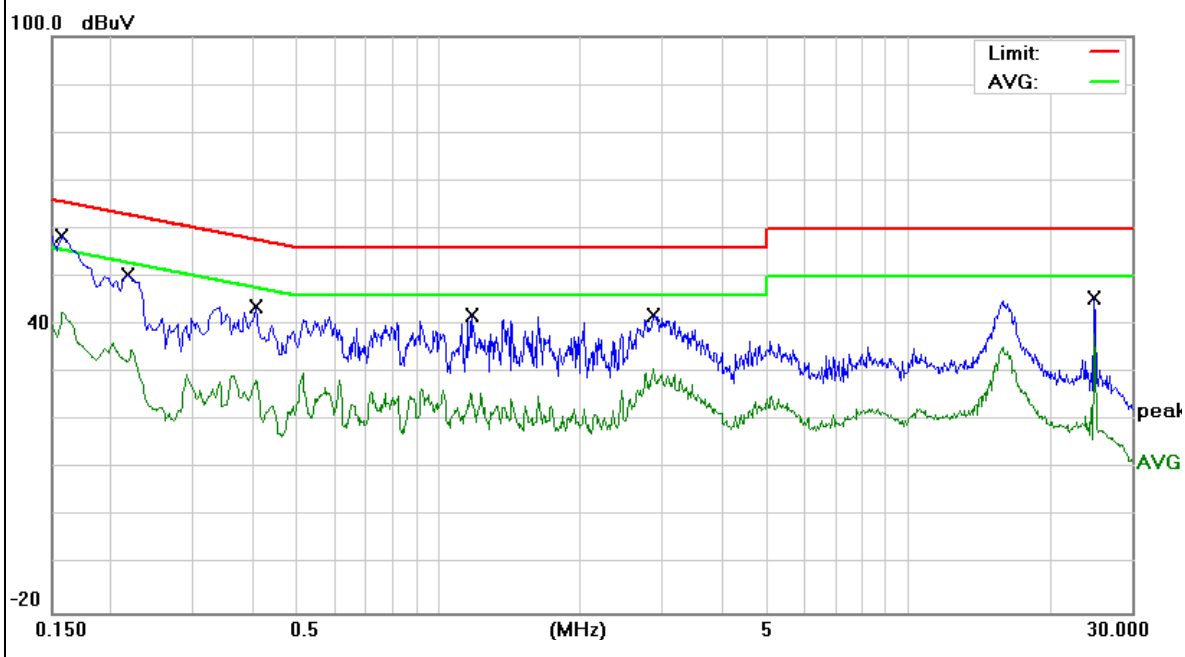


EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 19V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.3G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	48.80	9.75	58.55	65.56	-7.01	QP
0.1580	32.73	9.75	42.48	55.56	-13.08	AVG
0.2179	40.46	9.76	50.22	62.89	-12.67	QP
0.2179	30.56	9.76	40.32	52.89	-12.57	AVG
0.4097	34.03	9.74	43.77	57.65	-13.88	QP
0.4097	23.51	9.74	33.25	47.65	-14.40	AVG
1.1737	32.19	9.74	41.93	56.00	-14.07	QP
1.1737	21.51	9.74	31.25	46.00	-14.75	AVG
2.8580	32.23	9.82	42.05	56.00	-13.95	QP
2.8580	22.29	9.82	32.11	46.00	-13.89	AVG
25.0020	34.93	10.72	45.65	60.00	-14.35	QP
25.0020	27.35	10.72	38.07	50.00	-11.93	AVG

Remark:

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

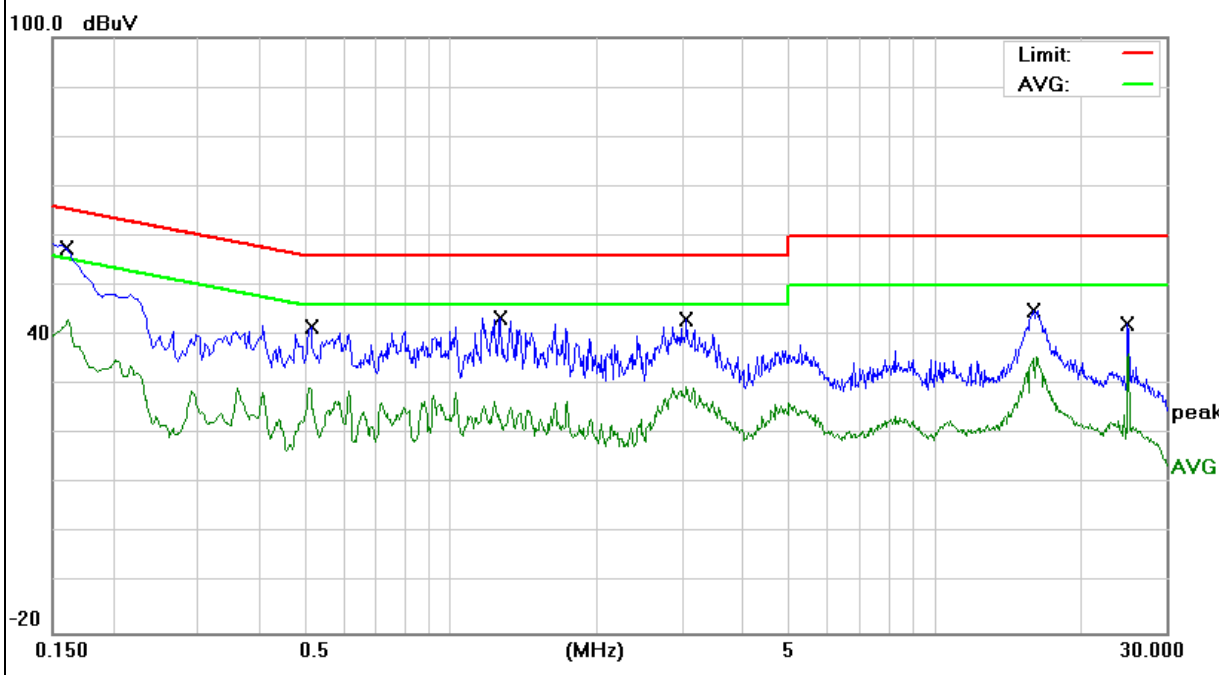


EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 19V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.3G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1620	48.69	9.73	58.42	65.36	-6.94	QP
0.1620	33.42	9.73	43.15	55.36	-12.21	AVG
0.5140	31.97	9.75	41.72	56.00	-14.28	QP
0.5140	21.27	9.75	31.02	46.00	-14.98	AVG
1.2660	33.78	9.75	43.53	56.00	-12.47	QP
1.2660	22.50	9.75	32.25	46.00	-13.75	AVG
3.0619	33.22	9.87	43.09	56.00	-12.91	QP
3.0619	23.25	9.87	33.12	46.00	-12.88	AVG
16.0459	34.89	10.11	45.00	60.00	-15.00	QP
16.0459	26.04	10.11	36.15	50.00	-13.85	AVG
24.9818	31.46	10.66	42.12	60.00	-17.88	QP
24.9818	21.49	10.66	32.15	50.00	-17.85	AVG

Remark:

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

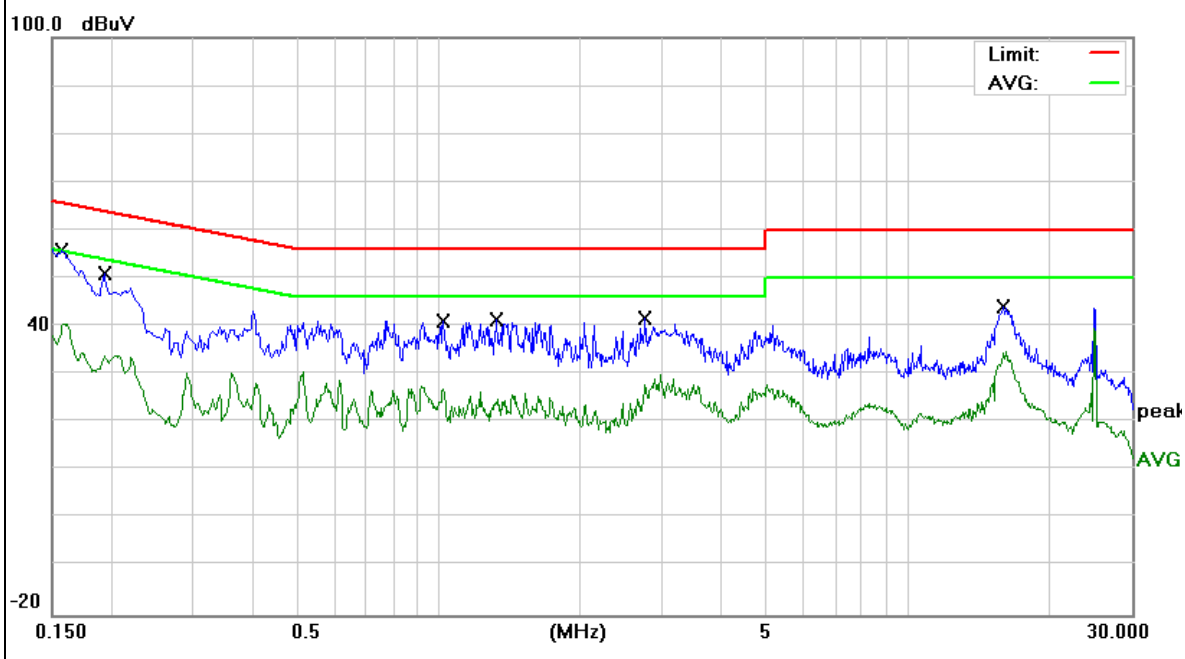


EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 19V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.6G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	45.82	9.75	55.57	65.56	-9.99	QP
0.1580	35.27	9.75	45.02	55.56	-10.54	AVG
0.1940	41.05	9.76	50.81	63.86	-13.05	QP
0.1940	30.56	9.76	40.32	53.86	-13.54	AVG
1.0220	31.43	9.74	41.17	56.00	-14.83	QP
1.0220	20.51	9.74	30.25	46.00	-15.75	AVG
1.3300	31.52	9.75	41.27	56.00	-14.73	QP
1.3300	20.46	9.75	30.21	46.00	-15.79	AVG
2.7580	31.75	9.82	41.57	56.00	-14.43	QP
2.7580	21.43	9.82	31.25	46.00	-14.75	AVG
16.0178	33.87	10.12	43.99	60.00	-16.01	QP
16.0178	23.20	10.12	33.32	50.00	-16.68	AVG

Remark:

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

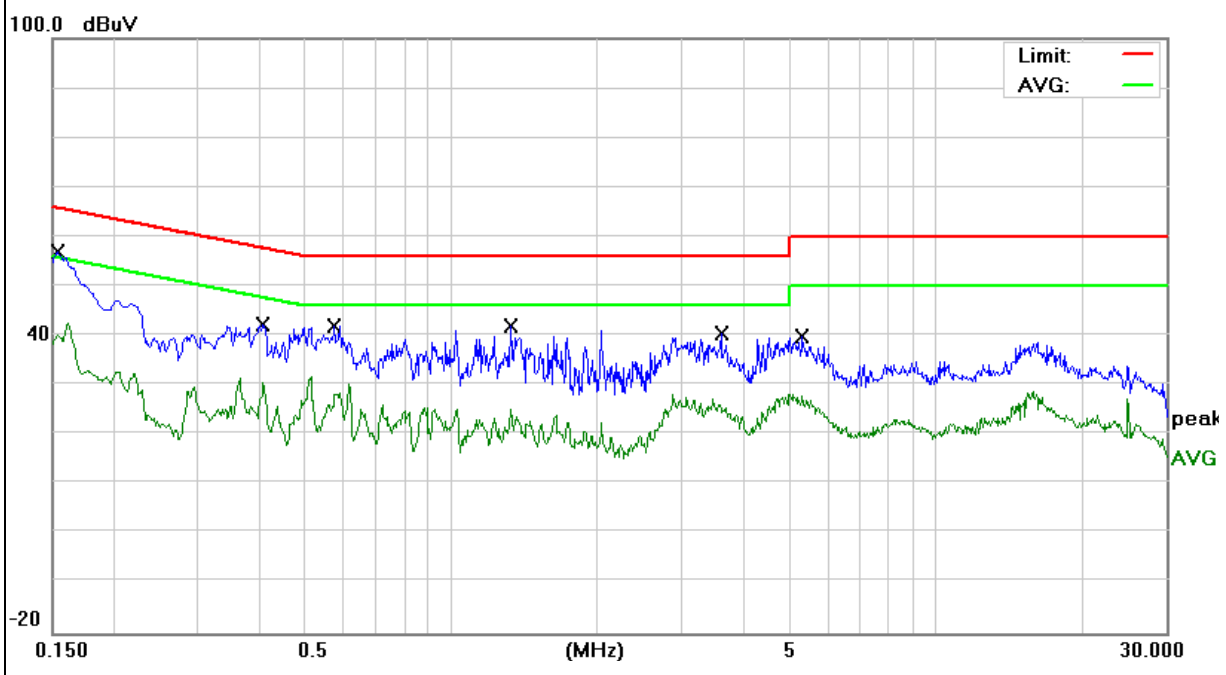


EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 19V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.6G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	47.16	9.74	56.90	65.78	-8.88	QP
0.1539	36.28	9.74	46.02	55.78	-9.76	AVG
0.4097	32.60	9.75	42.35	57.65	-15.30	QP
0.4097	23.61	9.75	33.36	47.65	-14.29	AVG
0.5735	32.30	9.75	42.05	56.00	-13.95	QP
0.5735	22.50	9.75	32.25	46.00	-13.75	AVG
1.3260	32.19	9.76	41.95	56.00	-14.05	QP
1.3260	21.89	9.76	31.65	46.00	-14.35	AVG
3.6139	30.50	9.90	40.40	56.00	-15.60	QP
3.6139	20.66	9.90	30.56	46.00	-15.44	AVG
5.3258	29.94	9.94	39.88	60.00	-20.12	QP
5.3258	19.64	9.94	29.58	50.00	-20.42	AVG

Remark:

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

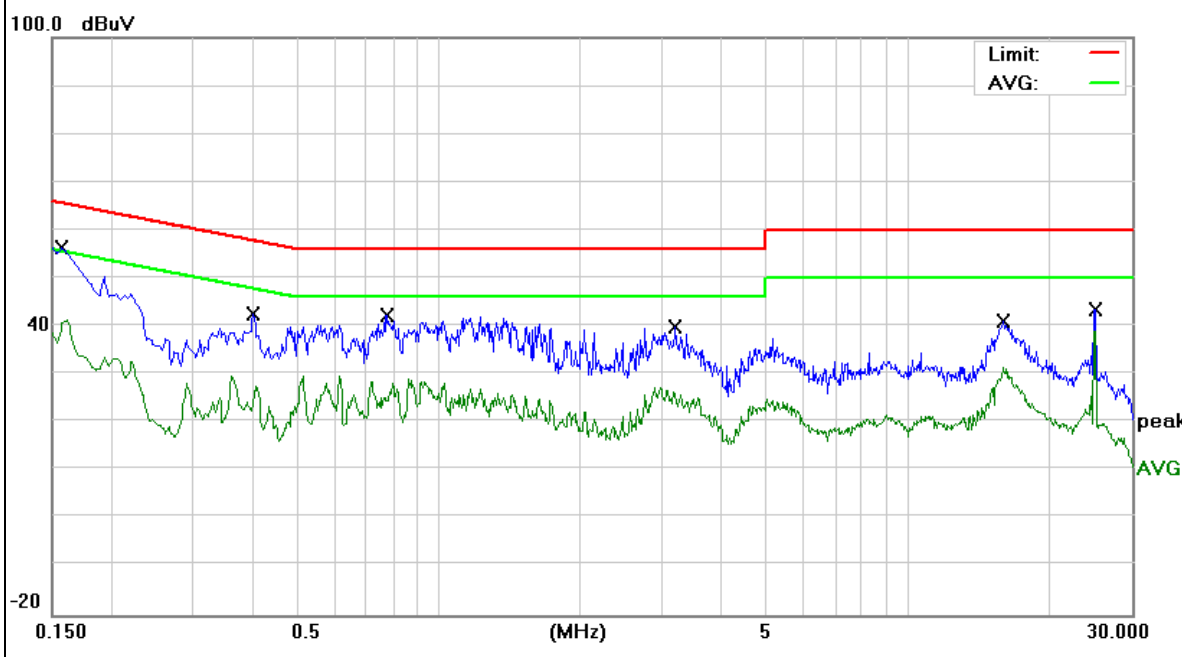


EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	L
Test Voltage :	DC 19V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1580	46.54	9.75	56.29	65.56	-9.27	QP
0.1580	36.58	9.75	46.33	55.56	-9.23	AVG
0.4020	32.82	9.74	42.56	57.81	-15.25	QP
0.4020	24.28	9.74	34.02	47.81	-13.79	AVG
0.7780	32.39	9.74	42.13	56.00	-13.87	QP
0.7780	23.95	9.74	33.69	46.00	-12.31	AVG
3.1979	30.10	9.83	39.93	56.00	-16.07	QP
3.1979	19.53	9.83	29.36	46.00	-16.64	AVG
16.0178	30.87	10.12	40.99	60.00	-19.01	QP
16.0178	20.23	10.12	30.35	50.00	-19.65	AVG
25.0620	32.76	10.72	43.48	60.00	-16.52	QP
25.0620	22.93	10.72	33.65	50.00	-16.35	AVG

Remark:

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



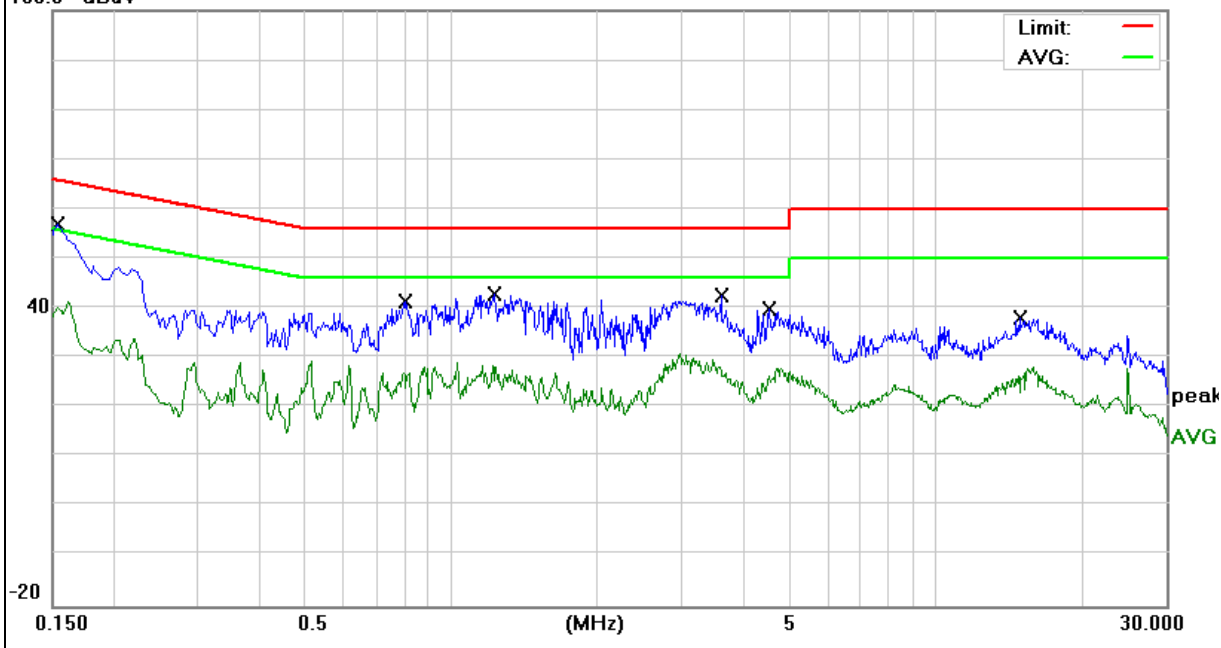
EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	26 °C	Relative Humidity :	56%
Pressure :	1010hPa	Phase :	N
Test Voltage :	DC 19V from Adapter AC 120V/60Hz	Test Mode :	Mode 1(5.8G)

Frequency (MHz)	Reading Level (dBμV)	Correct Factor (dB)	Measure-ment (dBμV)	Limits (dBμV)	Margin (dB)	Remark
0.1539	47.16	9.74	56.90	65.78	-8.88	QP
0.1539	36.95	9.74	46.69	55.78	-9.09	AVG
0.8020	31.47	9.75	41.22	56.00	-14.78	QP
0.8020	22.61	9.75	32.36	46.00	-13.64	AVG
1.2257	33.04	9.75	42.79	56.00	-13.21	QP
1.2257	25.58	9.75	35.33	46.00	-10.67	AVG
3.6139	32.50	9.90	42.40	56.00	-13.60	QP
3.6139	26.12	9.90	36.02	46.00	-9.98	AVG
4.5377	29.99	9.94	39.93	56.00	-16.07	QP
4.5377	19.64	9.94	29.58	46.00	-16.42	AVG
14.9859	28.07	10.09	38.16	60.00	-21.84	QP
14.9859	20.16	10.09	30.25	50.00	-19.75	AVG

Remark:

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

100.0 dBuV



2.2 RADIATED EMISSION MEASUREMENT

2.2.1 APPLICABLE STANDARD

According to FCC Part 15.407(d) and 15.209

2.2.2 CONFORMANCE LIMIT

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

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

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

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

Limits of Radiated Emission Measurement(Above 1000MHz)

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

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

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

3. For Frequency 9kHz~30MHz:

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

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

For Frequency above 30MHz:

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

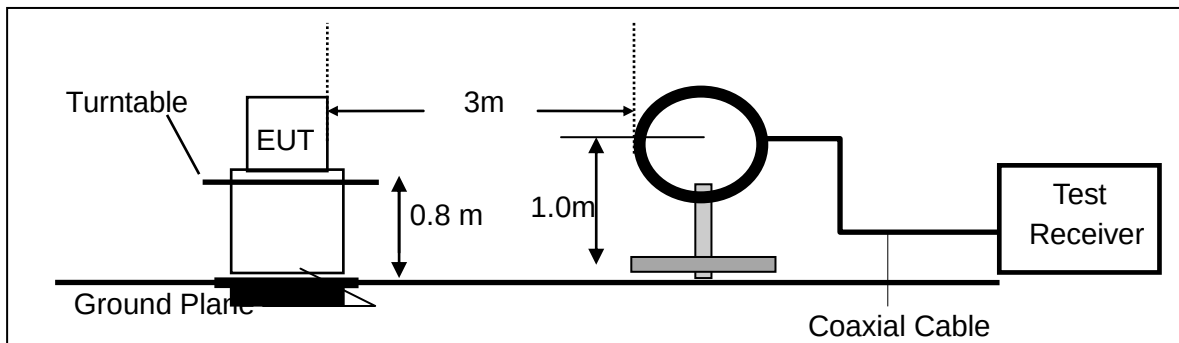
Limit line=Specific limits(dBuV) + distance extrapolation factor.

2.2.3 MEASURING INSTRUMENTS

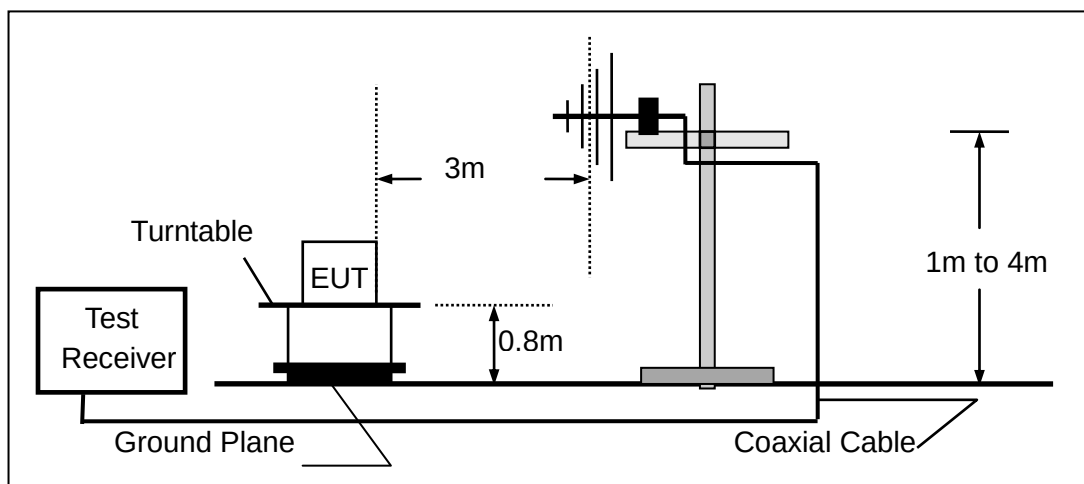
The Measuring equipment is listed in the section 6.3 of this test report.

2.2.4 TEST CONFIGURATION

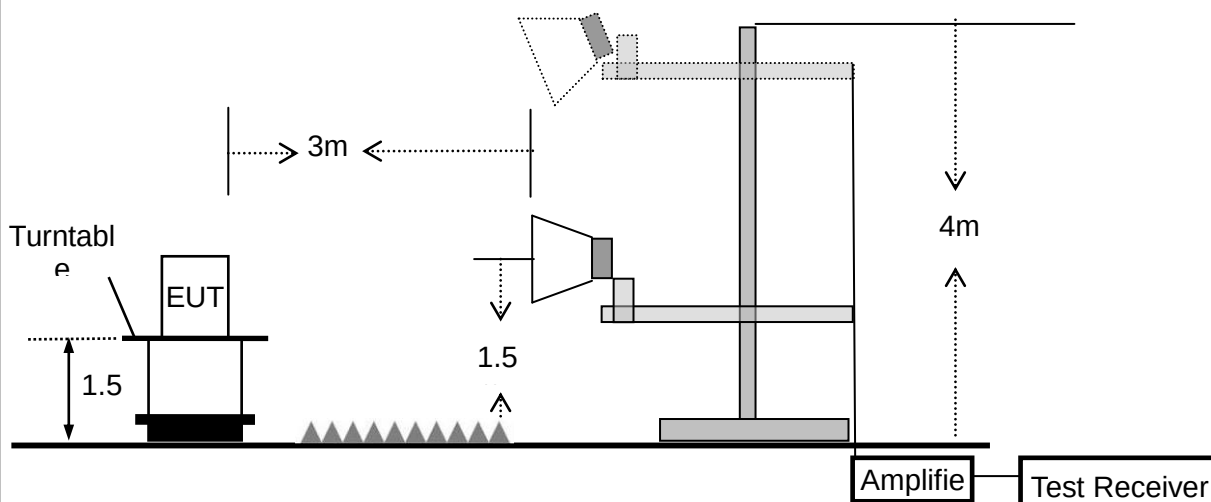
(a) For radiated emissions below 30MHz



(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 C63.10-2013. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 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

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

Note:

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

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

Frequency Band (MHz)	Function	Resolution bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Above 1000	Peak	1 MHz	1 MHz
	Average	1 MHz	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 $RBWCF [dB] = 10 \cdot \lg(100 [kHz] / \text{narrower RBW} [kHz])$. , the narrower RBW is 1 kHz and RBWCF is 20 dB for the frequency 9 kHz to 150 kHz, and the narrower RBW is 10 kHz and RBWCF is 10 dB for the frequency 150 kHz to 30 MHz.

2.2.6 TEST RESULTS (9KHZ – 30 MHZ)

EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure:	1010 hPa	Test Voltage :	DC 19V
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.

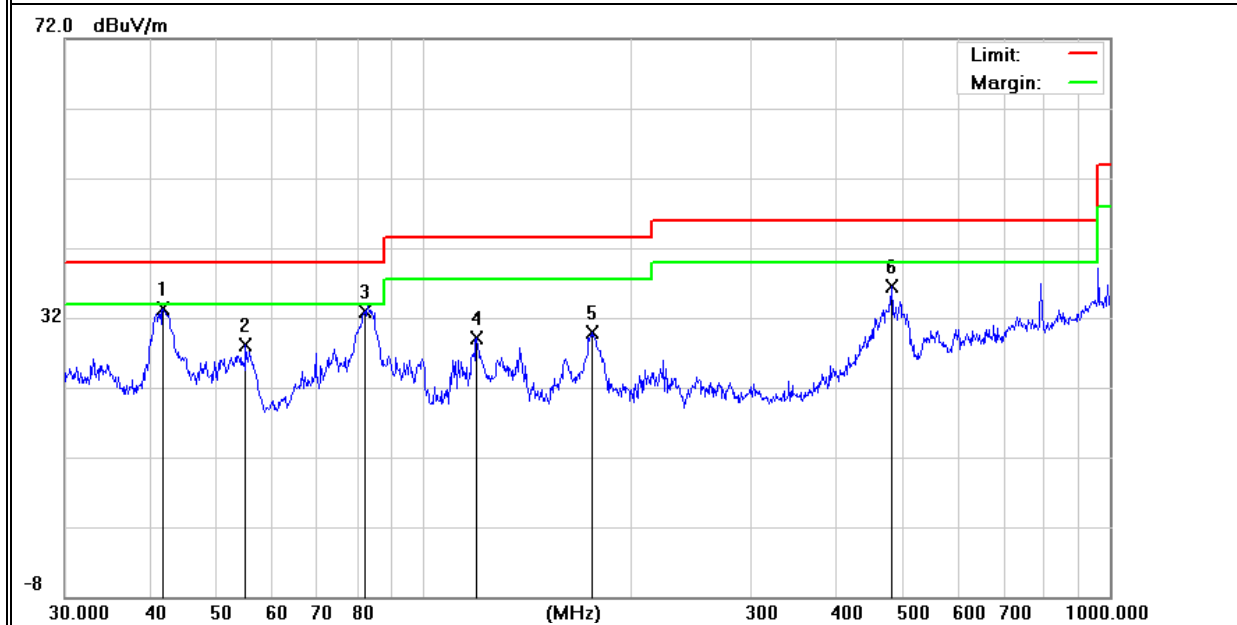
2.2.7 TEST RESULTS (30MHZ – 1GHZ)

EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G)- 802.11a (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	41.7129	20.53	12.82	33.35	40.00	-6.65	QP
V	55.0274	21.22	6.80	28.02	40.00	-11.98	QP
V	82.0706	24.61	8.29	32.90	40.00	-7.10	QP
V	119.4360	16.79	12.32	29.11	43.50	-14.39	QP
V	176.2686	20.27	9.73	30.00	43.50	-13.50	QP
V	480.5276	17.06	19.45	36.51	46.00	-9.49	QP

Remark:

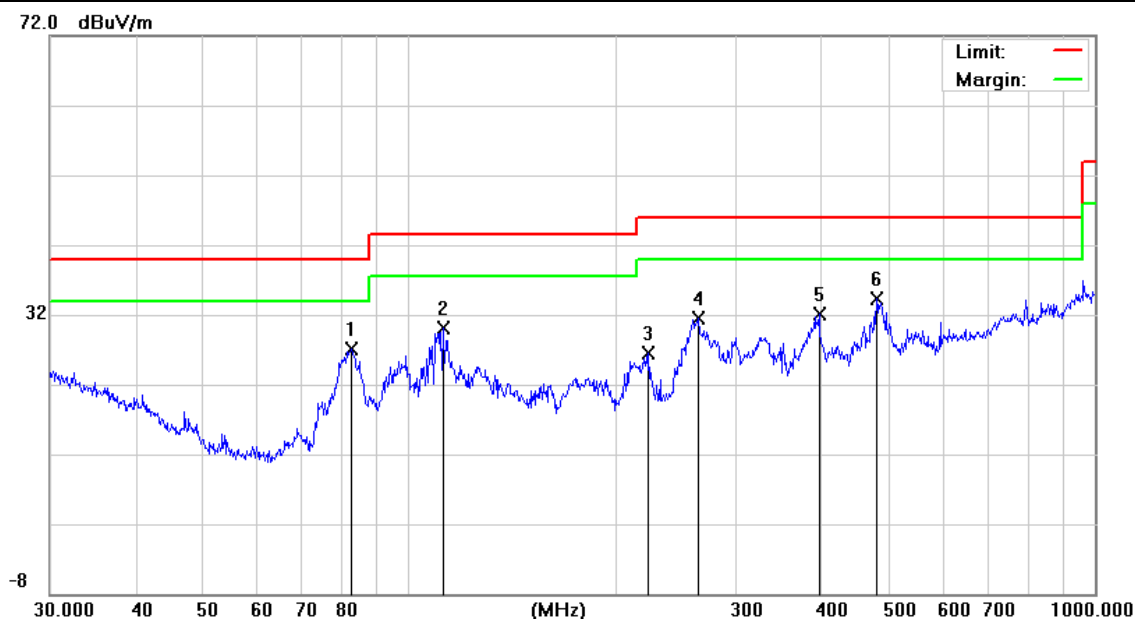
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	82.6482	18.66	8.40	27.06	40.00	-12.94	QP
H	112.1305	18.13	11.88	30.01	43.50	-13.49	QP
H	223.7333	15.83	10.74	26.57	46.00	-19.43	QP
H	264.7457	17.49	14.06	31.55	46.00	-14.45	QP
H	396.2415	14.55	17.65	32.20	46.00	-13.80	QP
H	480.5276	14.78	19.45	34.23	46.00	-11.77	QP

Remark:

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

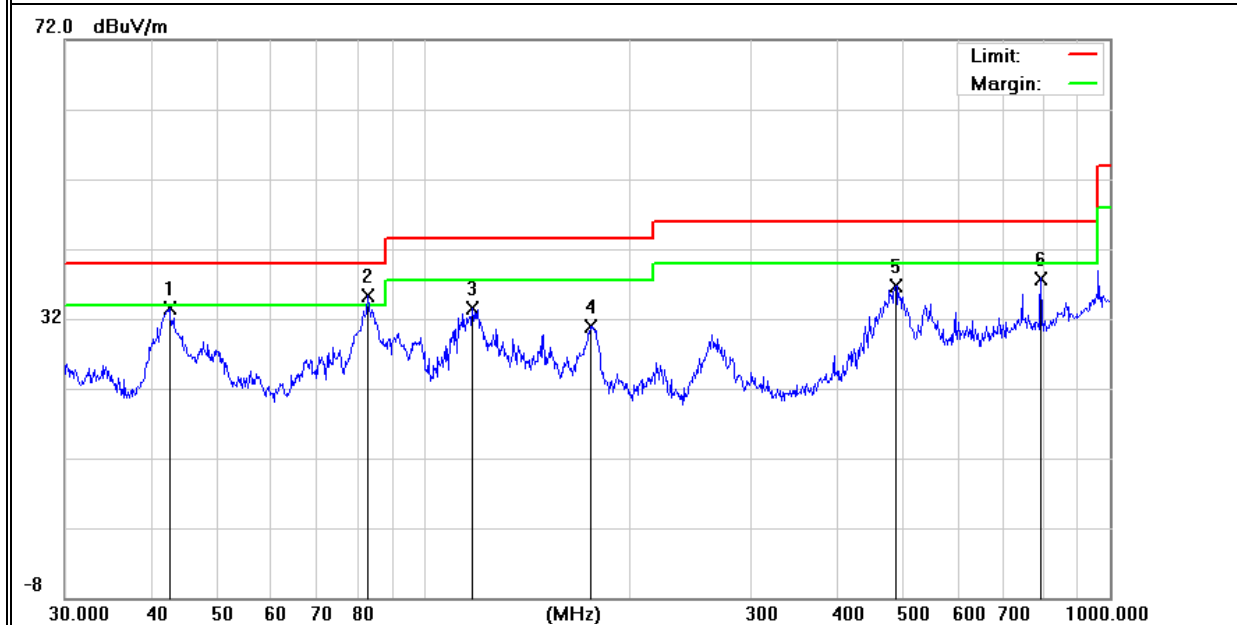


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.3G)- 802.11a (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	42.6000	21.20	12.30	33.50	40.00	-6.50	QP
V	82.9385	26.94	8.46	35.40	40.00	-4.60	QP
V	117.7725	21.08	12.35	33.43	43.50	-10.07	QP
V	175.0365	21.17	9.76	30.93	43.50	-12.57	QP
V	487.3151	17.17	19.60	36.77	46.00	-9.23	QP
V	793.3960	13.17	24.63	37.80	46.00	-8.20	QP

Remark:

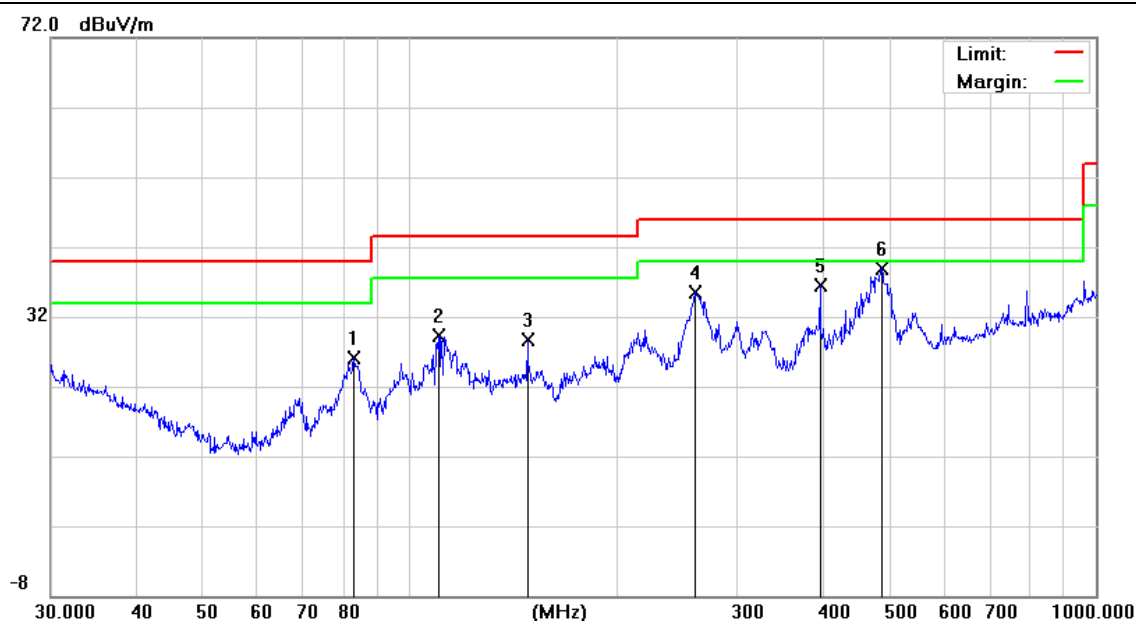
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	82.9385	17.64	8.46	26.10	40.00	-13.90	QP
H	110.1816	17.74	11.53	29.27	43.50	-14.23	QP
H	148.4410	16.83	11.90	28.73	43.50	-14.77	QP
H	260.1444	20.46	14.97	35.43	46.00	-10.57	QP
H	396.2414	18.79	17.65	36.44	46.00	-9.56	QP
H	487.3151	19.24	19.60	38.84	46.00	-7.16	QP

Remark:

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

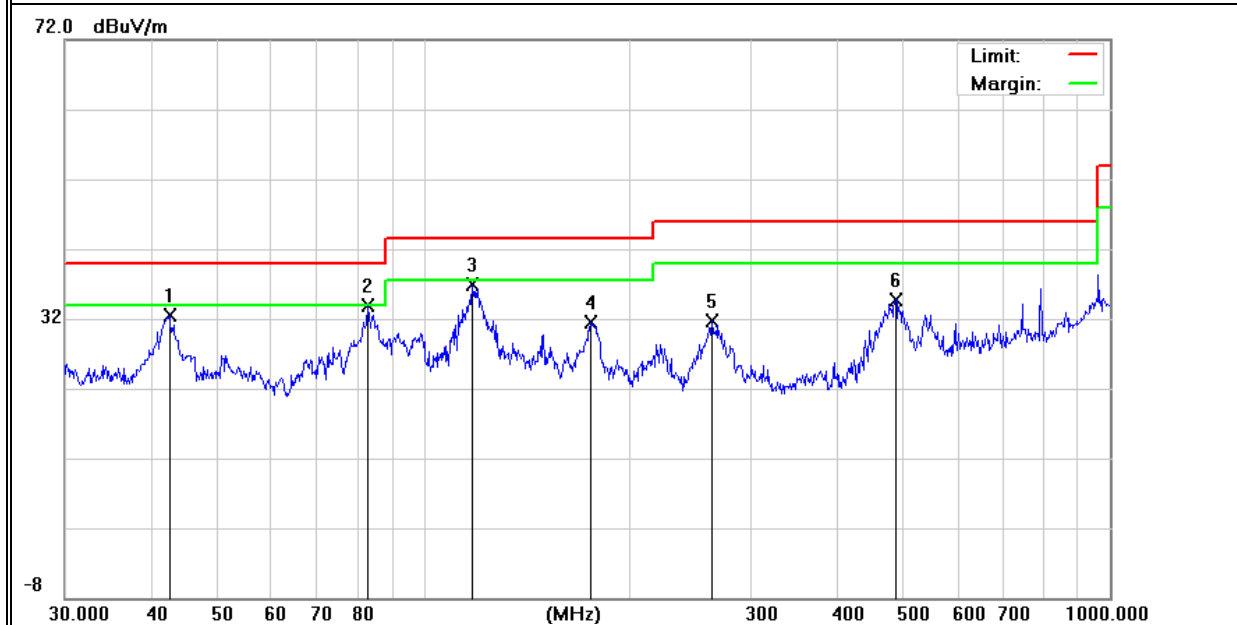


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.6G)- 802.11a (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	42.6000	20.20	12.30	32.50	40.00	-7.50	QP
V	82.9385	25.44	8.46	33.90	40.00	-6.10	QP
V	117.7724	24.58	12.35	36.93	43.50	-6.57	QP
V	175.0364	21.67	9.76	31.43	43.50	-12.07	QP
V	262.8955	17.26	14.43	31.69	46.00	-14.31	QP
V	487.3149	15.17	19.60	34.77	46.00	-11.23	QP

Remark:

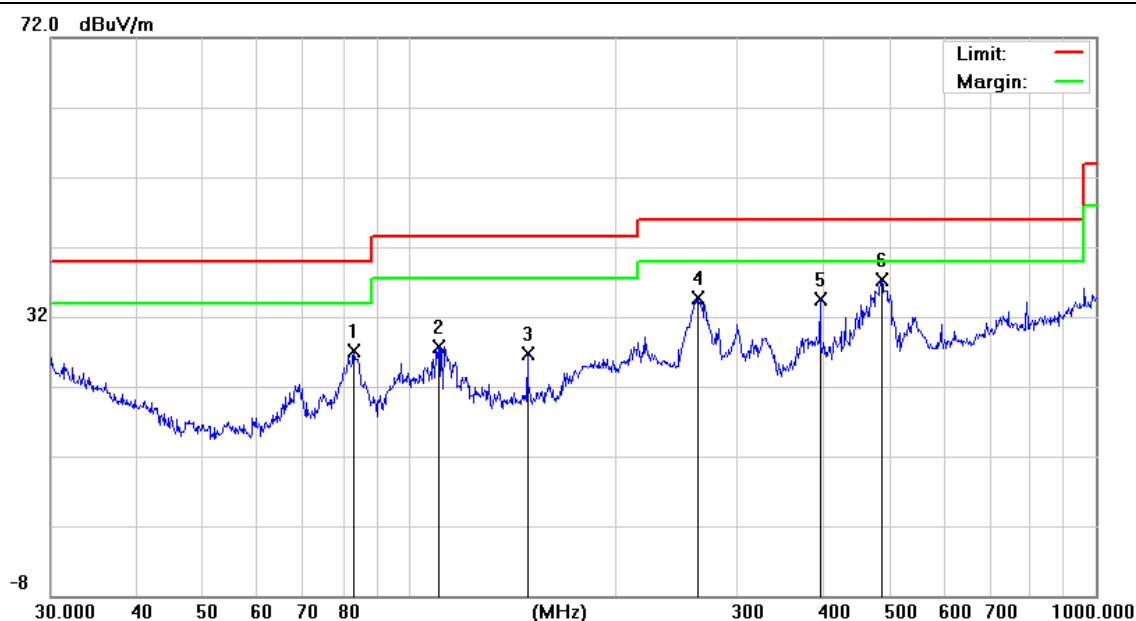
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	82.9385	18.64	8.46	27.10	40.00	-12.90	QP
H	110.1816	16.24	11.53	27.77	43.50	-15.73	QP
H	148.4410	14.83	11.90	26.73	43.50	-16.77	QP
H	262.8955	20.21	14.43	34.64	46.00	-11.36	QP
H	396.2412	16.79	17.65	34.44	46.00	-11.56	QP
H	487.3149	17.74	19.60	37.34	46.00	-8.66	QP

Remark:

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

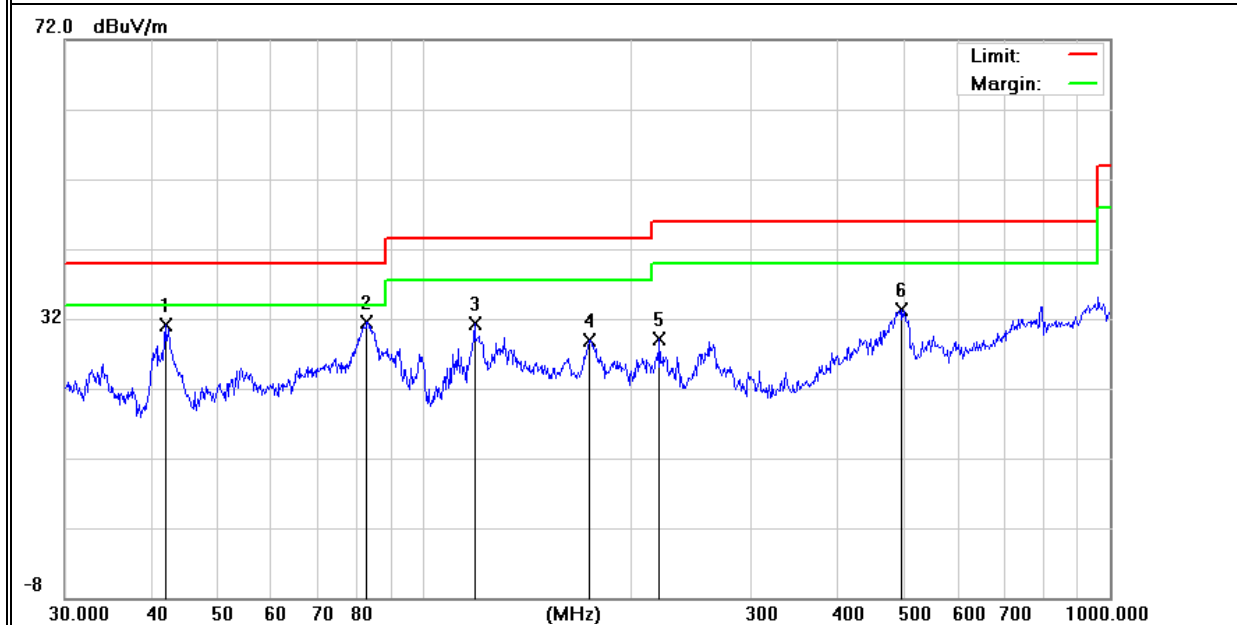


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11a (High CH)		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	42.0065	18.46	12.62	31.08	40.00	-8.92	QP
V	82.6482	23.14	8.40	31.54	40.00	-8.46	QP
V	118.6012	18.96	12.34	31.30	43.50	-12.20	QP
V	174.4241	19.17	9.83	29.00	43.50	-14.50	QP
V	220.6168	18.34	10.79	29.13	46.00	-16.87	QP
V	495.9343	13.40	19.97	33.37	46.00	-12.63	QP

Remark:

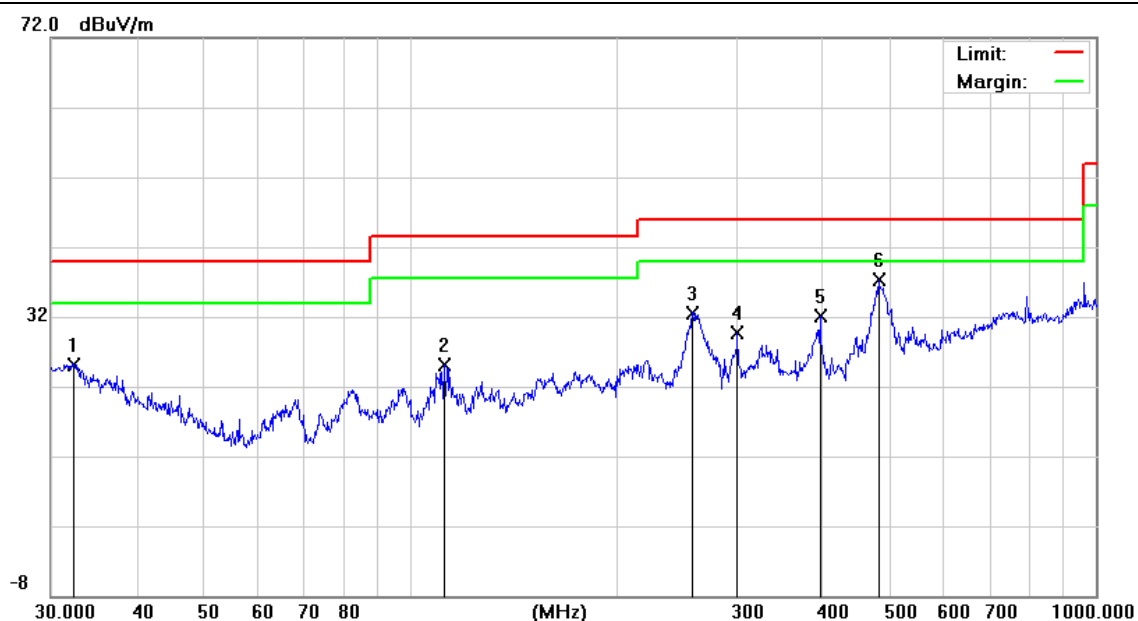
Absolute Level= ReadingLevel+ Factor, Margin= Absolute Level - Limit



Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	32.4059	7.46	17.62	25.08	40.00	-14.92	QP
H	112.5241	13.10	11.95	25.05	43.50	-18.45	QP
H	258.3263	17.98	14.62	32.60	46.00	-13.40	QP
H	300.3672	15.00	14.62	29.62	46.00	-16.38	QP
H	396.2412	14.55	17.65	32.20	46.00	-13.80	QP
H	482.2155	17.84	19.48	37.32	46.00	-8.68	QP

Remark:

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



2.2.8 TEST RESULTS (1GHz-18GHz)

EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11n20 _5180~5240MHz		

Polar	Frequenc y	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	3015.854	63.43	5.94	35.40	44.00	60.77	68.20	-7.43	Pk
Vertical	3015.854	48.38	5.94	35.40	44.00	45.72	54.00	-8.28	AV
Vertical	10360	60.06	8.46	39.75	44.50	63.77	68.20	-4.43	Pk
Vertical	10360	44.59	8.46	39.75	44.50	48.30	54.00	-5.70	AV
Vertical	15540	58.63	10.12	38.80	44.10	63.45	68.20	-4.75	Pk
Vertical	15540	40.85	10.12	38.80	42.70	47.07	54.00	-6.93	AV
Horizontal	2981.857	63.59	5.94	35.18	44.00	60.71	68.20	-7.49	Pk
Horizontal	2981.857	43.07	5.94	35.18	44.00	40.19	54.00	-13.81	AV
Horizontal	10360	59.32	8.46	38.71	44.50	61.99	68.20	-6.21	Pk
Horizontal	10360	40.63	8.46	38.71	44.50	43.30	54.00	-10.70	AV
Horizontal	15540	56.98	10.12	38.38	44.10	61.38	68.20	-6.82	Pk
Horizontal	15540	41.82	10.12	38.38	44.10	46.22	54.00	-7.78	AV
middle Channel (5200 MHz)-Above 1G									
Vertical	3561.325	64.02	6.48	36.35	44.05	62.80	68.20	-5.40	Pk
Vertical	3561.325	43.87	6.48	36.35	44.05	42.65	54.00	-11.35	AV
Vertical	10400	61.28	8.47	37.88	44.51	63.12	68.20	-5.08	Pk
Vertical	10400	43.93	8.47	37.88	44.51	45.77	54.00	-8.23	AV
Vertical	15600	58.55	10.12	38.80	44.10	63.37	68.20	-4.83	Pk
Vertical	15600	39.49	10.12	38.80	42.70	45.71	54.00	-8.29	AV
Horizontal	3362.854	64.34	6.48	36.37	44.05	63.14	68.20	-5.06	Pk
Horizontal	3362.854	44.69	6.48	36.37	44.05	43.49	54.00	-10.51	AV
Horizontal	10400	59.60	8.47	38.64	44.50	62.21	68.20	-5.99	Pk
Horizontal	10400	44.44	8.47	38.64	44.50	47.05	54.00	-6.95	AV
Horizontal	15600	59.00	10.12	38.38	44.10	63.40	68.20	-4.80	Pk
Horizontal	15600	44.45	10.12	38.38	44.10	48.85	54.00	-5.15	AV
High Channel (5240 MHz)-Above 1G									
Vertical	3926.547	61.55	7.10	37.24	43.50	62.39	68.20	-5.81	Pk
Vertical	3926.547	45.03	7.10	37.24	43.50	45.87	54.00	-8.13	AV
Vertical	10480	62.01	8.46	37.68	44.50	63.65	68.20	-4.55	Pk
Vertical	10480	42.47	8.46	37.68	44.50	44.11	54.00	-9.89	AV
Vertical	15720	58.16	10.12	38.80	44.10	62.98	68.20	-5.22	Pk
Vertical	15720	39.08	10.12	38.80	42.70	45.30	54.00	-8.70	AV
Horizontal	3884.696	62.10	7.10	37.24	43.50	62.94	68.20	-5.26	Pk
Horizontal	3884.696	42.91	7.10	37.24	43.50	43.75	54.00	-10.25	AV
Horizontal	10480	59.30	8.46	38.57	44.50	61.83	68.20	-6.37	Pk
Horizontal	10480	41.08	8.46	38.57	44.50	43.61	54.00	-10.39	AV
Horizontal	15720	58.03	10.12	38.38	44.10	62.43	68.20	-5.77	Pk
Horizontal	15720	40.64	10.12	38.38	44.10	45.04	54.00	-8.96	AV

Note: "802.11n20(5G)" 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 :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.3G) - 802.11a_5260~5320MHz		

Polar	Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier 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	2806.74	62.37	5.94	35.40	44.00	59.71	68.20	-8.49	Pk
Vertical	2807.16	46.59	5.94	35.40	44.00	43.93	54.00	-10.07	AV
Vertical	11490.83	59.70	8.46	39.75	44.50	63.41	68.20	-4.79	Pk
Vertical	11490.88	44.11	8.46	39.75	44.50	47.82	54.00	-6.18	AV
Vertical	17236.25	58.88	10.12	38.80	44.10	63.70	68.20	-4.50	Pk
Vertical	17235.79	40.16	10.12	38.80	42.70	46.38	54.00	-7.62	AV
Horizontal	2912.43	65.06	5.94	35.18	44.00	62.18	68.20	-6.02	Pk
Horizontal	2912.49	46.89	5.94	35.18	44.00	44.01	54.00	-9.99	AV
Horizontal	11490.52	60.94	8.46	38.71	44.50	63.61	68.20	-4.59	Pk
Horizontal	11490.44	41.18	8.46	38.71	44.50	43.85	54.00	-10.15	AV
Horizontal	17235.55	58.67	10.12	38.38	44.10	63.07	68.20	-5.13	Pk
Horizontal	17235.84	42.88	10.12	38.38	44.10	47.28	54.00	-6.72	AV
middle Channel (5785 MHz)-Above 1G									
Vertical	3762.95	63.92	6.48	36.35	44.05	62.70	74.00	-11.30	Pk
Vertical	3763.32	43.07	6.48	36.35	44.05	41.85	54.00	-12.15	AV
Vertical	11571.19	61.31	8.47	37.88	44.51	63.15	68.20	-5.05	Pk
Vertical	11570.46	45.25	8.47	37.88	44.51	47.09	54.00	-6.91	AV
Vertical	17355.51	59.02	10.12	38.80	44.10	63.84	68.20	-4.36	Pk
Vertical	17355.59	43.14	10.12	38.80	42.70	49.36	54.00	-4.64	AV
Horizontal	3561.43	61.83	6.48	36.37	44.05	60.63	68.20	-7.57	Pk
Horizontal	3562.35	43.80	6.48	36.37	44.05	42.60	54.00	-11.40	AV
Horizontal	11571.32	60.50	8.47	38.64	44.50	63.11	68.20	-5.09	Pk
Horizontal	11570.74	44.20	8.47	38.64	44.50	46.81	54.00	-7.19	AV
Horizontal	17355.91	59.21	10.12	38.38	44.10	63.61	68.20	-4.59	Pk
Horizontal	17355.95	43.98	10.12	38.38	44.10	48.38	54.00	-5.62	AV
High Channel (5825 MHz)-Above 1G									
Vertical	3907.33	61.77	7.10	37.24	43.50	62.61	68.20	-5.59	Pk
Vertical	3907.85	43.62	7.10	37.24	43.50	44.46	54.00	-9.54	AV
Vertical	11651.20	60.88	8.46	37.68	44.50	62.52	68.20	-5.68	Pk
Vertical	11651.24	43.67	8.46	37.68	44.50	45.31	54.00	-8.69	AV
Vertical	17476.01	59.01	10.12	38.80	44.10	63.83	68.20	-4.37	Pk
Vertical	17475.77	40.85	10.12	38.80	42.70	47.07	54.00	-6.93	AV
Horizontal	3913.48	61.74	7.10	37.24	43.50	62.58	68.20	-5.62	Pk
Horizontal	3913.40	42.55	7.10	37.24	43.50	43.39	54.00	-10.61	AV
Horizontal	11651.30	61.00	8.46	38.57	44.50	63.53	68.20	-4.67	Pk
Horizontal	11650.63	43.33	8.46	38.57	44.50	45.86	54.00	-8.14	AV
Horizontal	17475.62	58.44	10.12	38.38	44.10	62.84	68.20	-5.36	Pk
Horizontal	17475.59	44.78	10.12	38.38	44.10	49.18	54.00	-4.82	AV

Note:"802.11a(5G)" 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 :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.6G) - 802.11n20 _5500~5700MHz		

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	61.94	5.61	35.40	44.00	58.95	68.20	-9.2	Pk
Vertical	5433.02	42.77	5.76	35.40	44.00	39.93	54.00	-14.1	AV
Vertical	11000.25	57.71	8.24	39.75	44.50	61.20	68.20	-7.0	Pk
Vertical	11000.25	39.57	8.35	39.75	44.50	43.17	54.00	-10.8	AV
Vertical	16500.41	48.70	10.05	38.80	44.10	53.45	68.20	-14.8	Pk
Vertical	16500.41	40.45	9.65	38.80	42.70	46.20	54.00	-7.8	AV
Horizontal	5126.47	58.23	5.78	35.18	44.00	55.19	68.20	-13.0	Pk
Horizontal	5126.47	40.18	5.66	35.18	44.00	37.03	54.00	-17.0	AV
Horizontal	11000.32	55.91	8.22	38.71	44.50	58.34	68.20	-9.9	Pk
Horizontal	11000.32	39.27	8.14	38.71	44.50	41.62	54.00	-12.4	AV
Horizontal	16500.47	59.54	10.04	38.38	44.10	63.86	68.20	-4.3	Pk
Horizontal	16500.47	37.29	9.73	38.38	44.10	41.30	54.00	-12.7	AV
middle Channel (5600 MHz)-Above 1G									
Vertical	4933.25	60.37	6.29	36.35	44.05	58.95	68.20	-9.25	Pk
Vertical	4933.25	41.93	6.24	36.35	44.05	40.47	54.00	-13.53	AV
Vertical	11200.58	57.58	8.24	37.88	44.51	59.20	68.20	-9.00	Pk
Vertical	11200.58	42.21	8.13	37.88	44.51	43.70	54.00	-10.30	AV
Vertical	16800.45	57.61	9.71	38.8	44.10	62.02	68.20	-6.18	Pk
Vertical	16800.45	38.48	10.12	38.8	42.70	44.69	54.00	-9.31	AV
Horizontal	4766.32	58.16	6.44	36.37	44.05	56.92	68.20	-11.28	Pk
Horizontal	4766.32	41.10	6.13	36.37	44.05	39.56	54.00	-14.44	AV
Horizontal	11200.45	58.55	8.31	38.64	44.50	61.00	68.20	-7.20	Pk
Horizontal	11200.45	40.79	8.04	38.64	44.50	42.97	54.00	-11.03	AV
Horizontal	16800.33	59.87	10.09	38.38	44.10	64.24	68.20	-3.96	Pk
Horizontal	16800.33	39.82	9.63	38.38	44.10	43.73	54.00	-10.27	AV
High Channel (5700 MHz)-Above 1G									
Vertical	5647.33	59.70	6.79	37.24	43.50	60.23	68.20	-7.97	Pk
Vertical	5647.33	40.31	6.85	37.24	43.50	40.90	54.00	-13.10	AV
Vertical	11400.29	58.95	8.10	37.68	44.50	60.23	68.20	-7.97	Pk
Vertical	11400.29	40.30	8.23	37.68	44.50	41.71	54.00	-12.29	AV
Vertical	17100.54	59.76	9.70	38.8	44.10	64.17	68.20	-4.03	Pk
Vertical	17100.54	38.44	9.70	38.8	42.70	44.24	54.00	-9.76	AV
Horizontal	5433.26	58.56	6.74	37.24	43.50	59.04	68.20	-9.16	Pk
Horizontal	5433.26	40.43	6.74	37.24	43.50	40.91	54.00	-13.09	AV
Horizontal	11400.43	58.05	8.25	38.57	44.50	60.37	68.20	-7.83	Pk
Horizontal	11400.43	39.96	8.35	38.57	44.50	42.38	54.00	-11.62	AV
Horizontal	17100.58	57.15	9.70	38.38	44.10	61.13	68.20	-7.07	Pk

Note:"802.11n20(5G)" 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 :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX (5.8G) -- 802.11n40 _5745~5825MHz		

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	61.72	5.94	35.40	44.00	59.06	68.20	-9.14	Pk
Vertical	5122.51	43.43	5.94	35.40	44.00	40.77	54.00	-13.23	AV
Vertical	11490.60	58.05	8.46	39.75	44.50	61.76	68.20	-6.44	Pk
Vertical	11490.60	41.30	8.46	39.75	44.50	45.01	54.00	-8.99	AV
Vertical	17235.65	50.03	10.12	38.80	44.10	54.85	68.20	-13.35	Pk
Vertical	17235.65	39.53	10.12	38.80	42.70	45.75	54.00	-8.25	AV
Horizontal	5166.60	57.53	5.94	35.18	44.00	54.65	68.20	-13.55	Pk
Horizontal	5166.60	39.69	5.94	35.18	44.00	36.81	54.00	-17.19	AV
Horizontal	11490.47	56.98	8.46	38.71	44.50	59.65	68.20	-8.55	Pk
Horizontal	11490.47	40.38	8.46	38.71	44.50	43.05	54.00	-10.95	AV
Horizontal	17235.47	59.51	10.12	38.38	44.10	63.91	68.20	-4.29	Pk
Horizontal	17235.47	38.62	10.12	38.38	44.10	43.02	54.00	-10.98	AV
middle Channel (5785 MHz)-Above 1G									
Vertical	5433.40	60.64	6.48	36.35	44.05	59.42	68.20	-8.78	Pk
Vertical	5433.40	40.99	6.48	36.35	44.05	39.77	54.00	-14.23	AV
Vertical	11570.41	58.50	8.47	37.88	44.51	60.34	68.20	-7.86	Pk
Vertical	11570.41	41.06	8.47	37.88	44.51	42.90	54.00	-11.10	AV
Vertical	17355.84	59.39	10.12	38.8	44.10	64.21	68.20	-3.99	Pk
Vertical	17355.84	37.57	10.12	38.8	42.70	43.79	54.00	-10.21	AV
Horizontal	4866.60	57.95	6.48	36.37	44.05	56.75	68.20	-11.45	Pk
Horizontal	4866.60	40.80	6.48	36.37	44.05	39.60	54.00	-14.40	AV
Horizontal	11570.28	60.69	8.47	38.64	44.50	63.30	68.20	-4.90	Pk
Horizontal	11570.28	41.93	8.47	38.64	44.50	44.54	54.00	-9.46	AV
Horizontal	17355.49	60.50	10.12	38.38	44.10	64.90	68.20	-3.30	Pk
Horizontal	17355.49	41.50	10.12	38.38	44.10	45.90	54.00	-8.10	AV
High Channel (5825 MHz)-Above 1G									
Vertical	5244.48	60.90	7.10	37.24	43.50	61.74	68.20	-6.46	Pk
Vertical	5244.48	42.04	7.10	37.24	43.50	42.88	54.00	-11.12	AV
Vertical	11652.42	60.61	8.46	37.68	44.50	62.25	68.20	-5.95	Pk
Vertical	11652.42	42.00	8.46	37.68	44.50	43.64	54.00	-10.36	AV
Vertical	17473.74	59.47	10.12	38.8	44.10	64.29	68.20	-3.91	Pk
Vertical	17473.74	39.64	10.12	38.8	42.70	45.86	54.00	-8.14	AV
Horizontal	5285.29	59.13	7.10	37.24	43.50	59.97	68.20	-8.23	Pk
Horizontal	5285.29	40.47	7.10	37.24	43.50	41.31	54.00	-12.69	AV
Horizontal	11652.67	59.18	8.46	38.57	44.50	61.71	68.20	-6.49	Pk
Horizontal	11652.67	40.73	8.46	38.57	44.50	43.26	54.00	-10.74	AV
Horizontal	17474.68	57.09	10.12	38.38	44.10	61.49	68.20	-6.71	Pk
Horizontal	17474.68	40.22	10.12	38.38	44.10	44.62	54.00	-9.38	AV

Note:"802.11n40(5G)" 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.

Spurious Emission In Restricted Band 4.5GHz~5.150 GHz& 5.350GHz~5460GHz

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	
5.2G WIFI-802.11ac40 MIMO Mode									
4500.00	56.15	5.20	35.60	44.20	52.75	74	-21.25	Pk	Horizontal
4500.00	38.86	5.20	35.60	44.20	35.46	54	-18.54	AV	Horizontal
4500.00	54.73	5.20	35.60	44.20	51.33	74	-22.67	Pk	Vertical
4500.00	39.76	5.20	35.60	44.20	36.36	54	-17.64	AV	Vertical
5150.00	69.56	5.36	35.66	44.22	66.36	74	-7.64	Pk	Horizontal
5150.00	51.79	5.36	35.66	44.22	48.59	54	-5.41	AV	Horizontal
5150.00	66.19	5.36	35.66	44.22	62.99	74	-11.01	Pk	Vertical
5150.00	49.57	5.36	35.66	44.22	46.37	54	-7.63	AV	Vertical
5.3G WIFI-802.11ac40 MIMO Mode									
5350.00	71.57	5.68	35.68	44.22	68.71	74	-5.29	Pk	Vertical
5350.00	53.45	5.68	35.68	44.22	50.59	54	-3.41	AV	Vertical
5350.00	70.42	5.68	35.68	44.22	67.56	74	-6.44	Pk	Horizontal
5350.00	52.89	5.68	35.68	44.22	50.03	54	-3.97	AV	Horizontal
5.6G WIFI-802.11ac40 MIMO Mode									
5460.00	62.61	5.71	35.70	44.28	59.74	74	-14.26	Pk	Vertical
5460.00	46.24	5.71	35.70	44.28	43.37	54	-10.63	AV	Vertical
5460.00	56.90	5.71	35.70	44.28	54.03	74	-19.97	Pk	Horizontal
5460.00	41.43	5.71	35.70	44.28	38.56	54	-15.44	AV	Horizontal

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

(2) "802.11ac40 MIMO" mode is the worst mode. When PK value is lower than the Average value limit, average don't record.

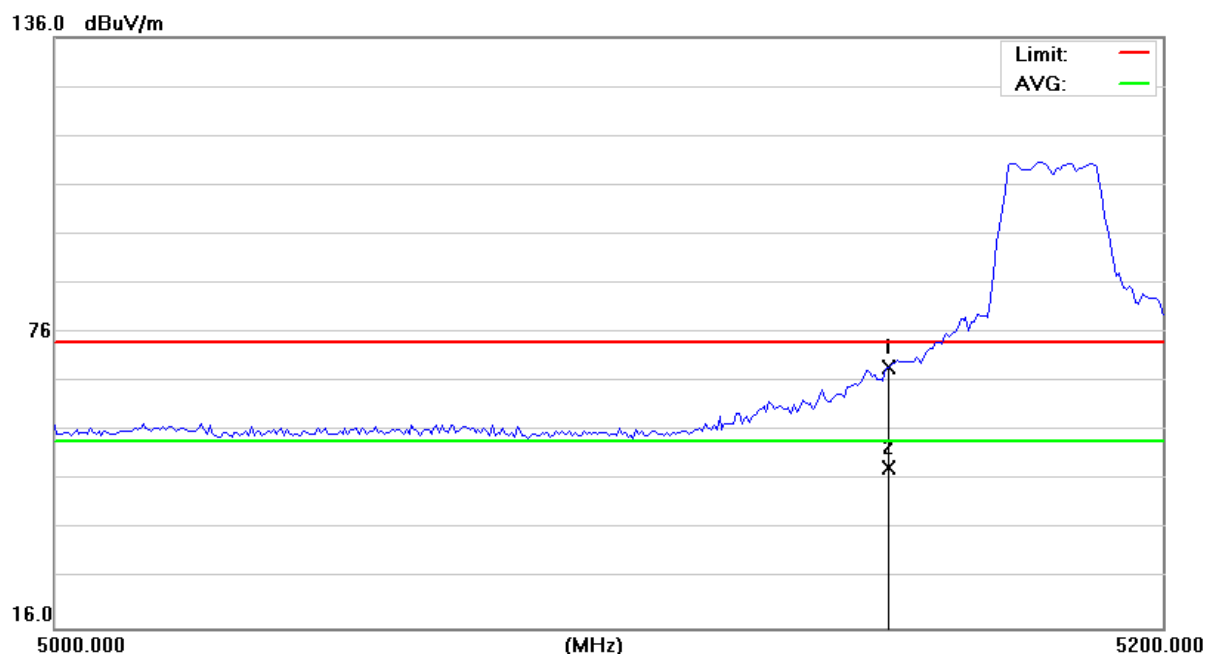
2.2.9 SPURIOUS EMISSION IN BANDEGE TEST RESULTS

EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11a		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5150	50.39	12.52	62.91	74.00	-11.09	peak
H	5150	34.04	12.52	46.56	54.00	-7.44	AVG

Remark:

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

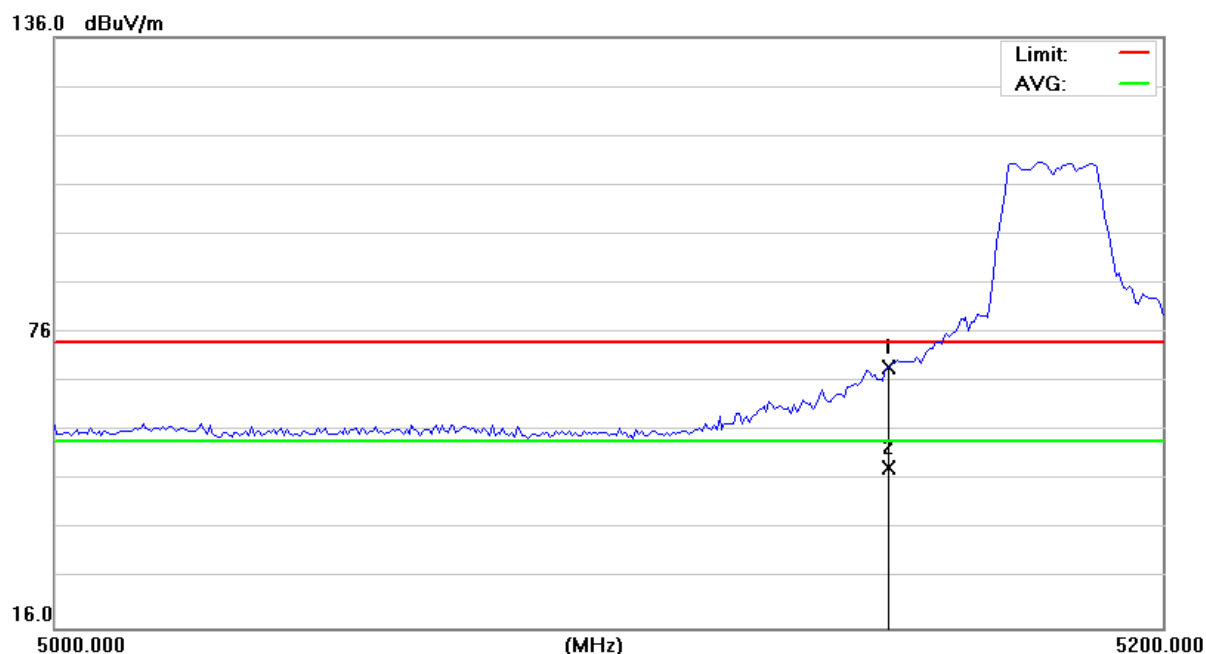


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11a		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	41.7129	56.51	12.52	69.03	74.00	-4.97	peak
V	55.0274	35.91	12.52	48.43	54.00	-5.57	AVG

Remark:

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

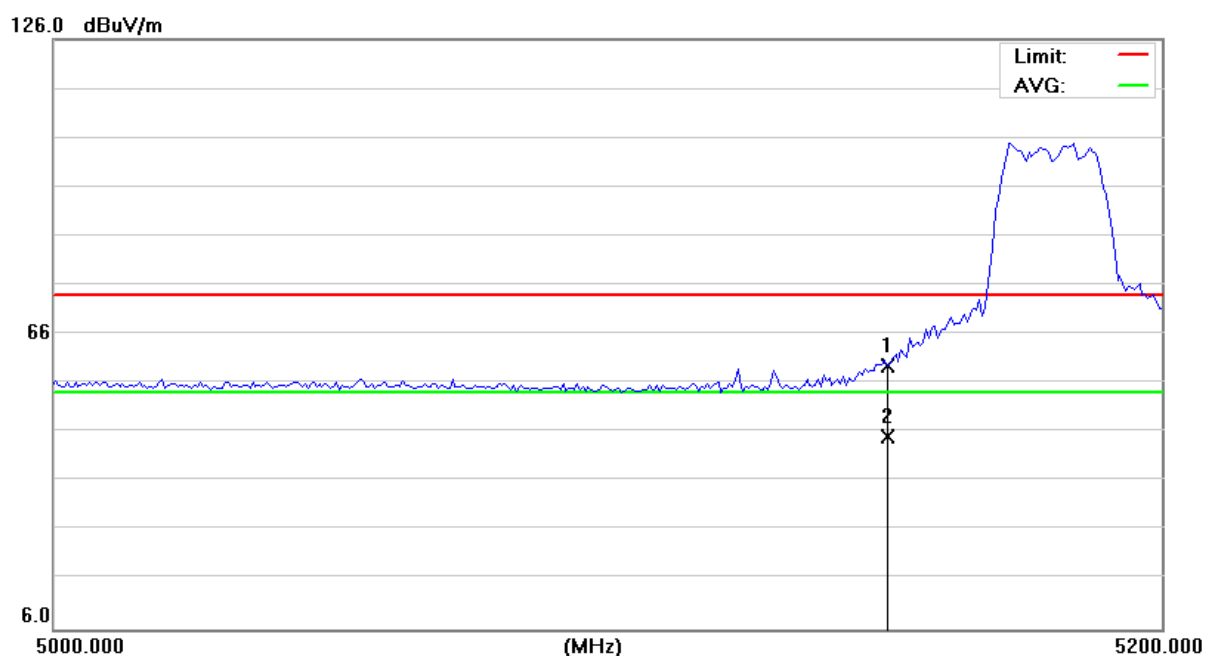


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11ac20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5150	47.11	12.52	59.63	74.00	-14.37	peak
H	5150	32.65	12.52	45.17	54.00	-8.83	AVG

Remark:

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

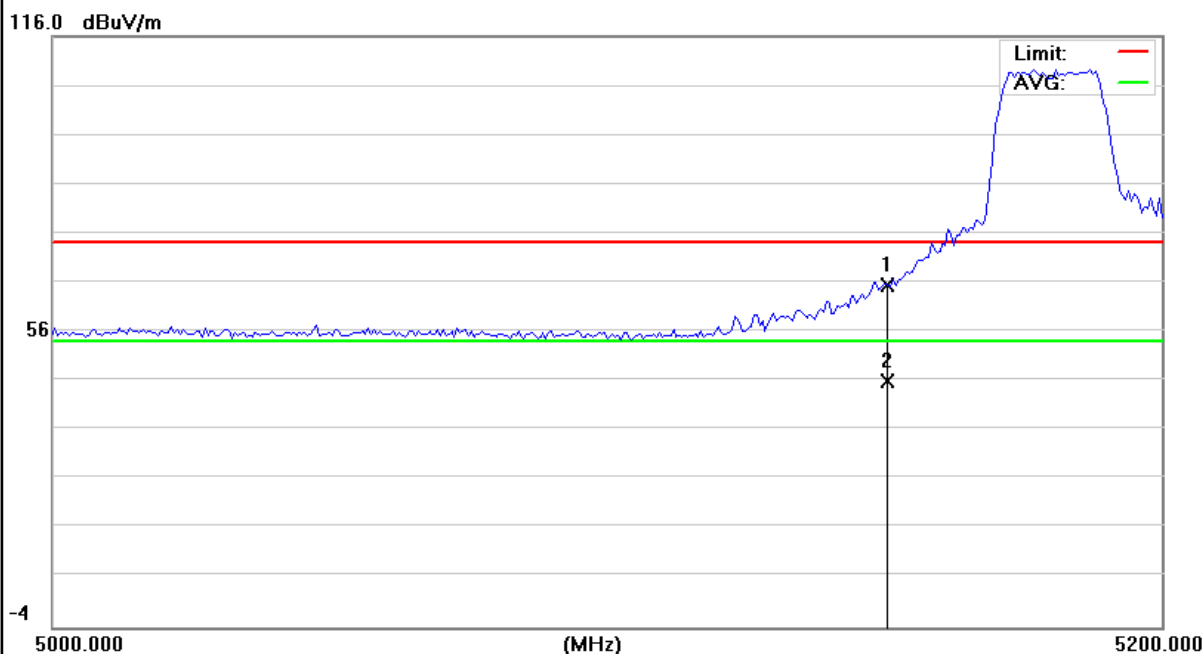


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11ac20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5150	52.99	12.52	65.51	74.00	-8.49	peak
H	5150	33.54	12.52	46.06	54.00	-7.94	AVG

Remark:

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

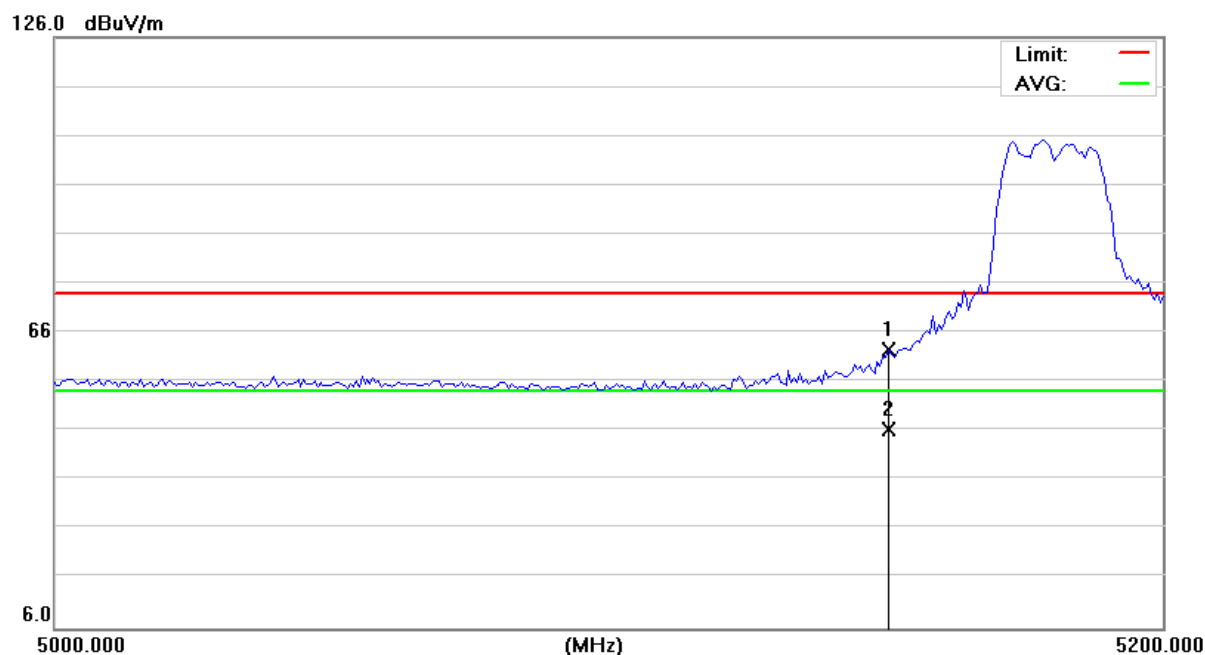


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11n 20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5150	49.89	12.52	62.41	74.00	-11.59	peak
H	5150	33.80	12.52	46.32	54.00	-7.68	AVG

Remark:

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

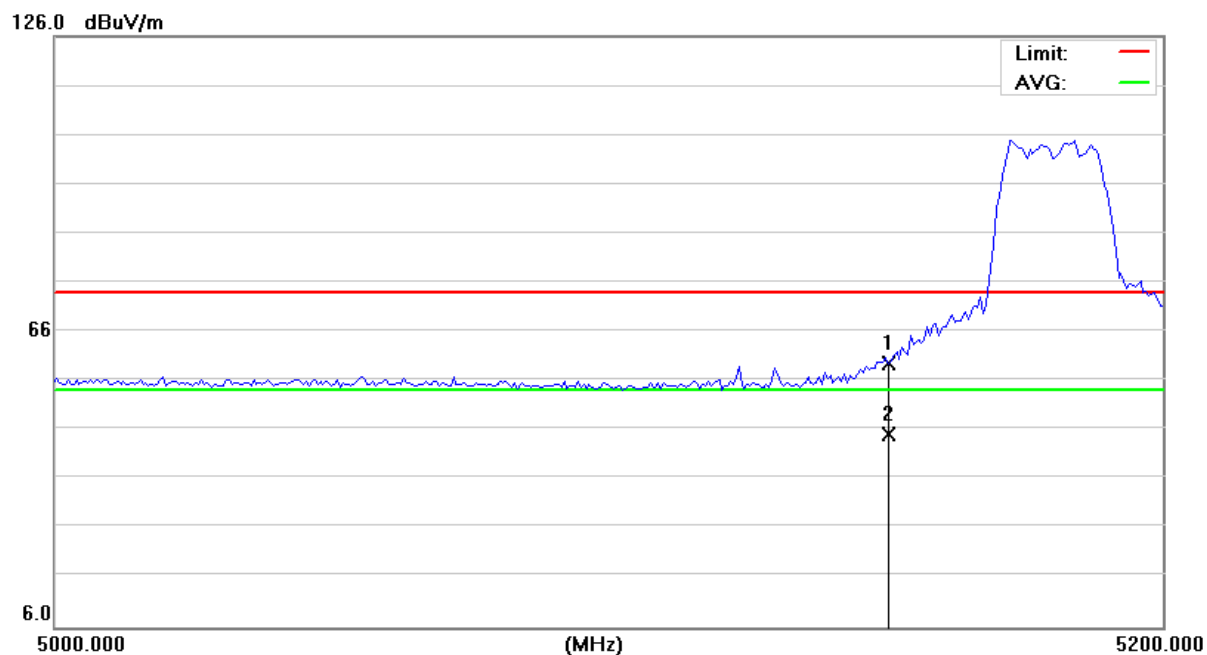


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11n 20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBUV)	(dB)	(dBUV/m)	(dBUV/m)	(dB)	
V	5150	53.88	12.52	66.40	74.00	-7.60	peak
V	5150	35.04	12.52	47.56	54.00	-6.44	AVG

Remark:

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

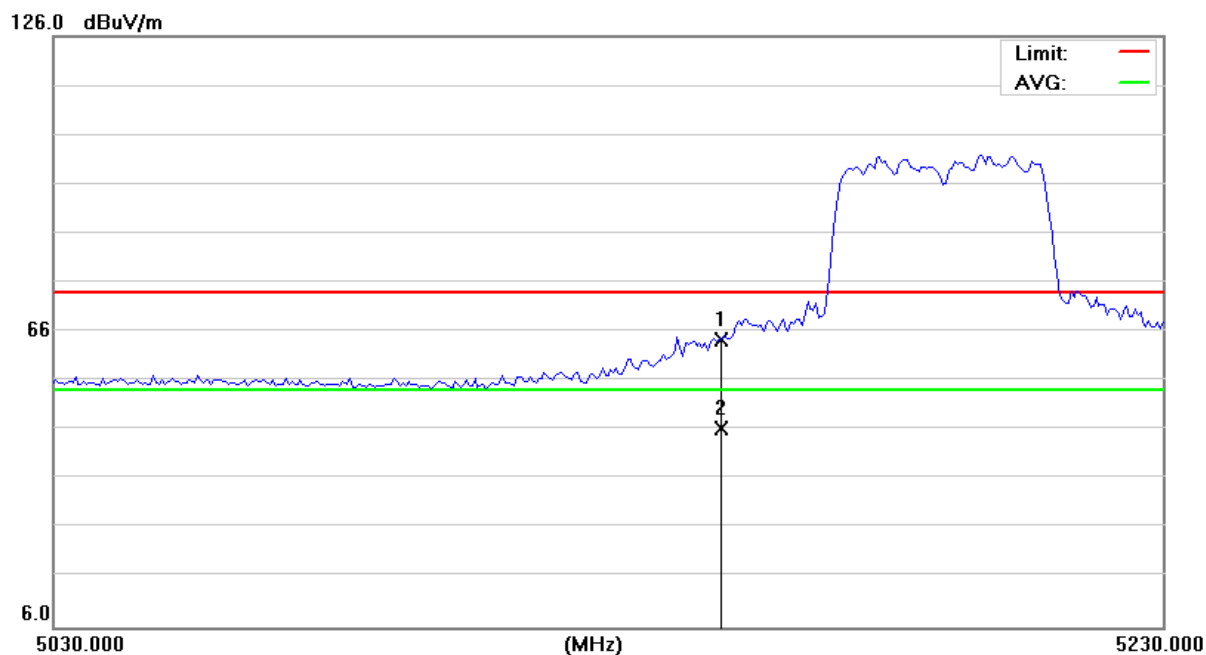


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11ac 40		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5150	51.98	12.52	64.50	74.00	-9.50	peak
H	5150	33.75	12.52	46.27	54.00	-7.73	AVG

Remark:

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

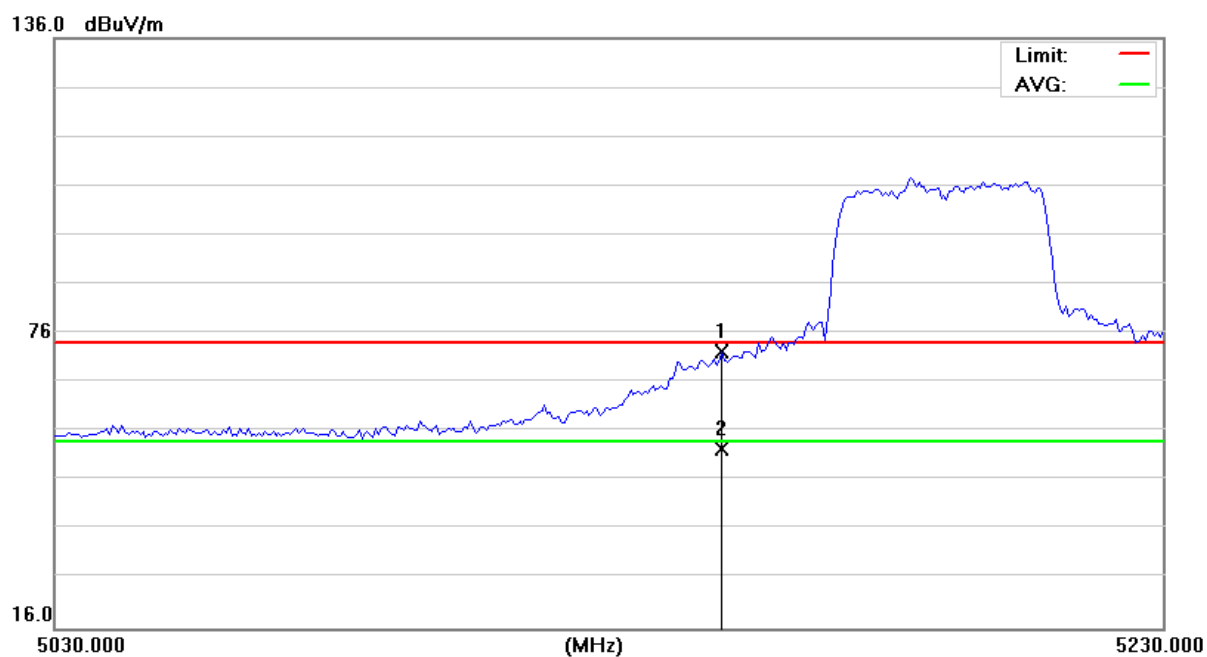


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11ac 40		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5150	59.60	12.52	72.12	74.00	-1.88	peak
V	5150	39.84	12.52	52.36	54.00	-1.64	AVG

Remark:

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

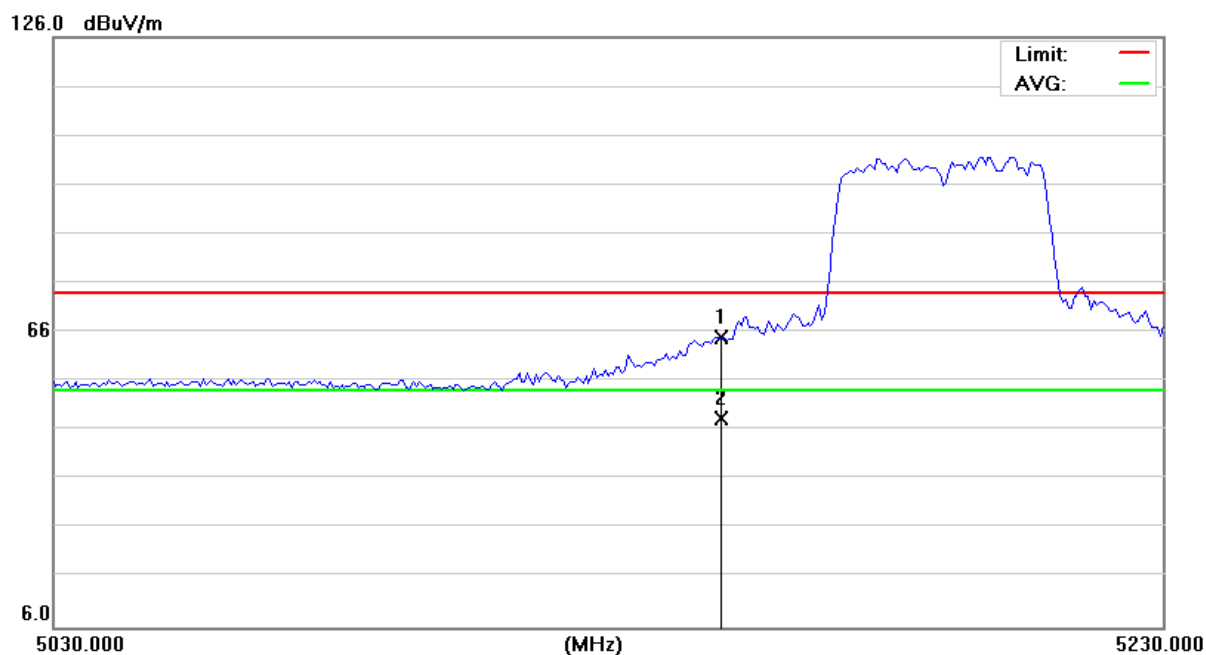


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11n40		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5150	52.53	12.52	65.05	74.00	-8.95	peak
H	5150	35.80	12.52	48.32	54.00	-5.68	AVG

Remark:

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

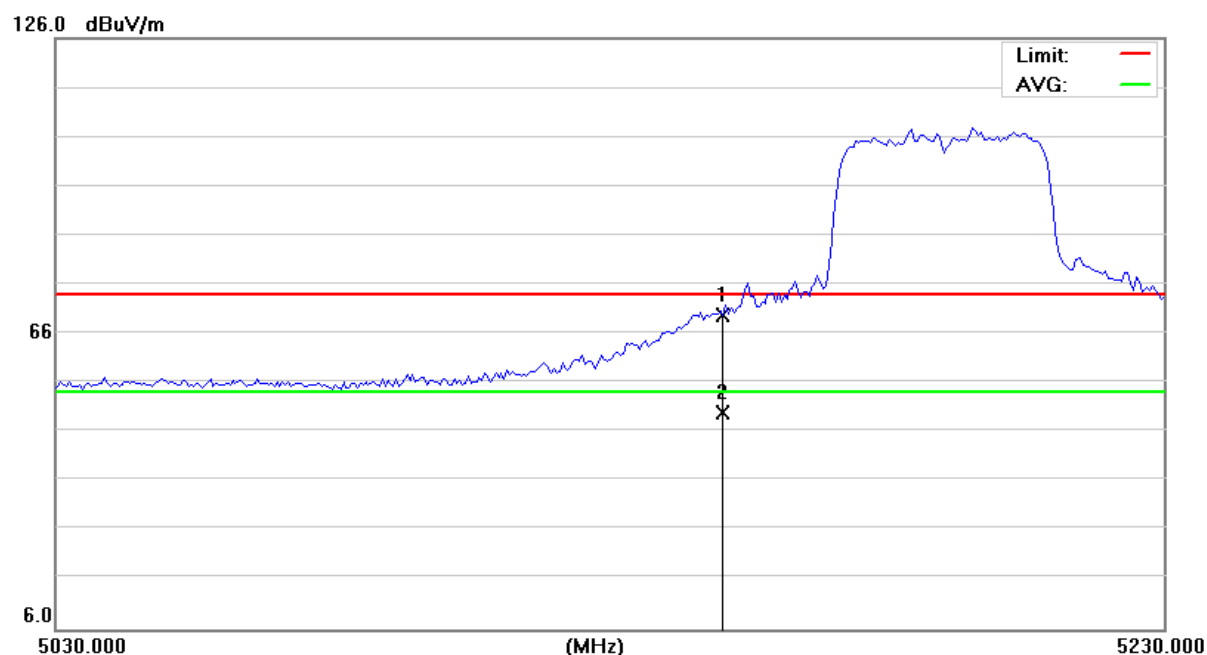


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11n40		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5150	57.35	12.52	69.87	74.00	-4.13	peak
V	5150	37.36	12.52	49.88	54.00	-4.12	AVG

Remark:

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

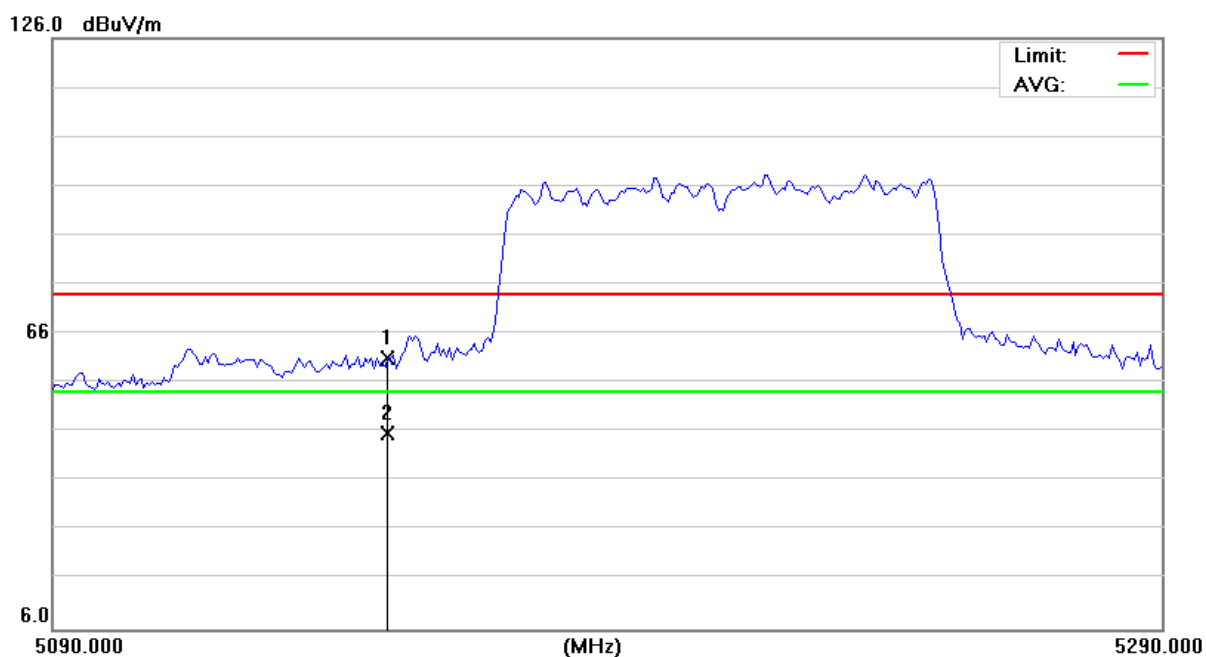


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11ac80		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	5150	48.42	12.52	60.94	74.00	-13.06	peak
H	5150	33.14	12.52	45.66	54.00	-8.34	AVG

Remark:

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

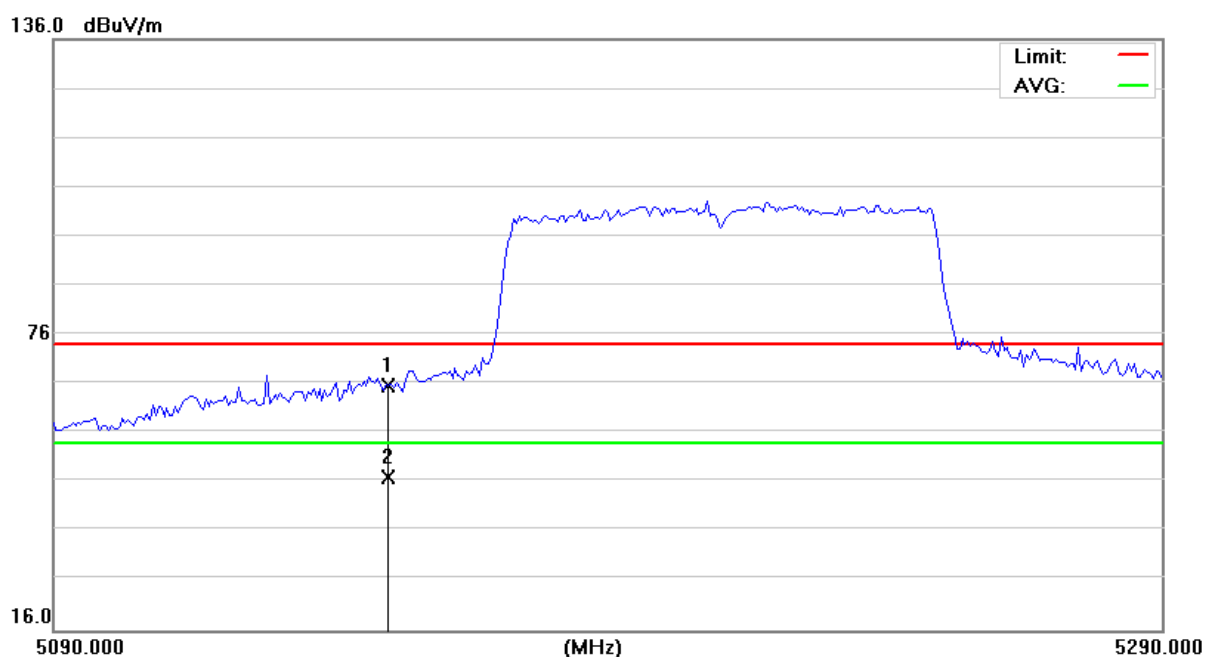


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.2G) - 802.11ac80		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5150	53.12	12.52	65.64	74.00	-8.36	peak
V	5150	34.60	12.52	47.12	54.00	-6.88	AVG

Remark:

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

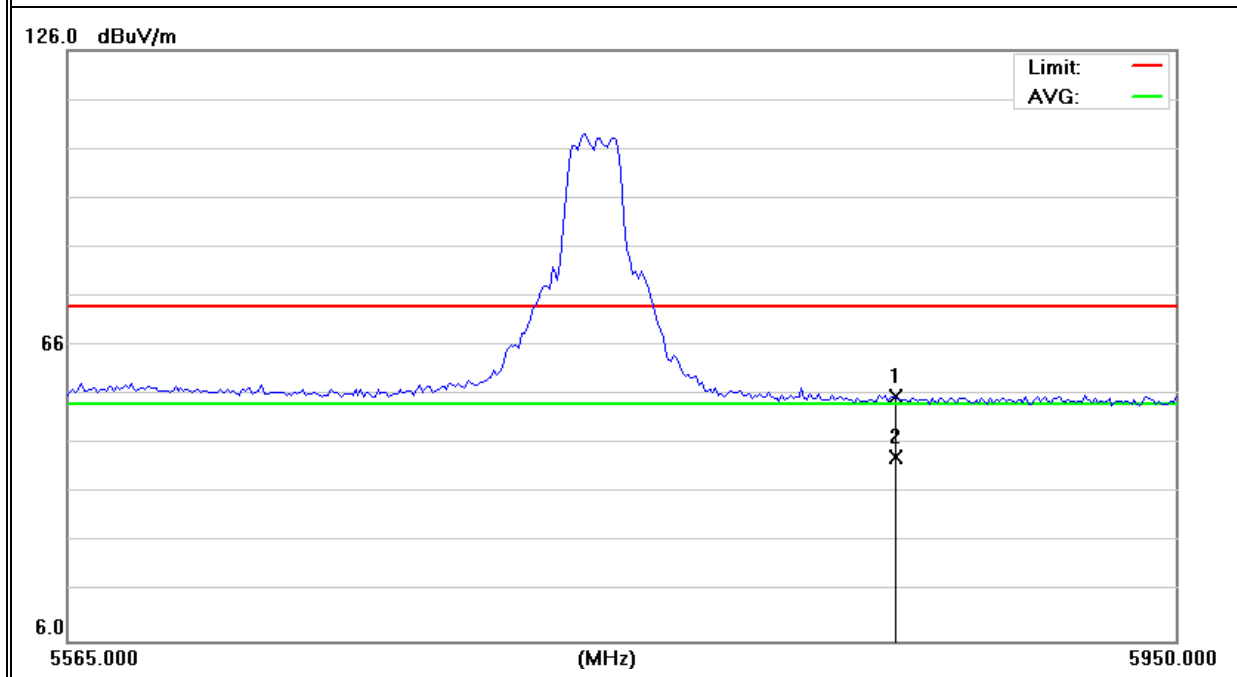


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11a		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5850	41.88	13.74	55.62	74.00	-18.38	peak
H	5850	29.73	13.74	43.47	54.00	-10.53	AVG

Remark:

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

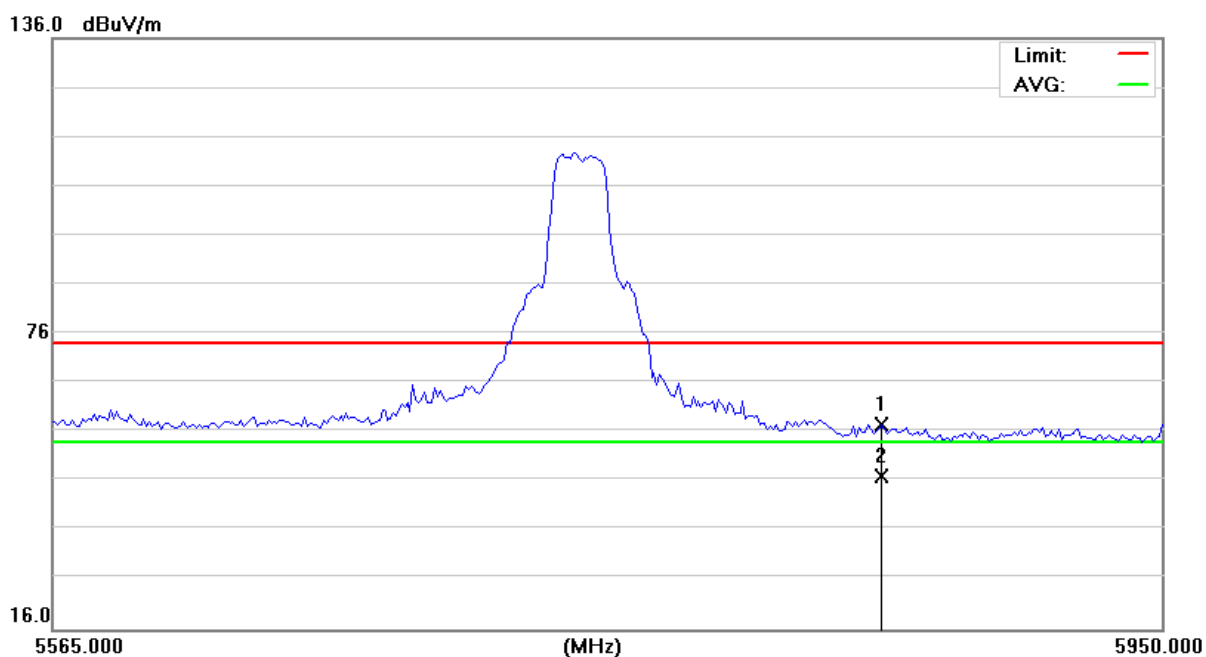


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11a		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5850	43.90	13.74	57.64	74.00	-16.36	peak
V	5850	33.38	13.74	47.12	54.00	-6.88	AVG

Remark:

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

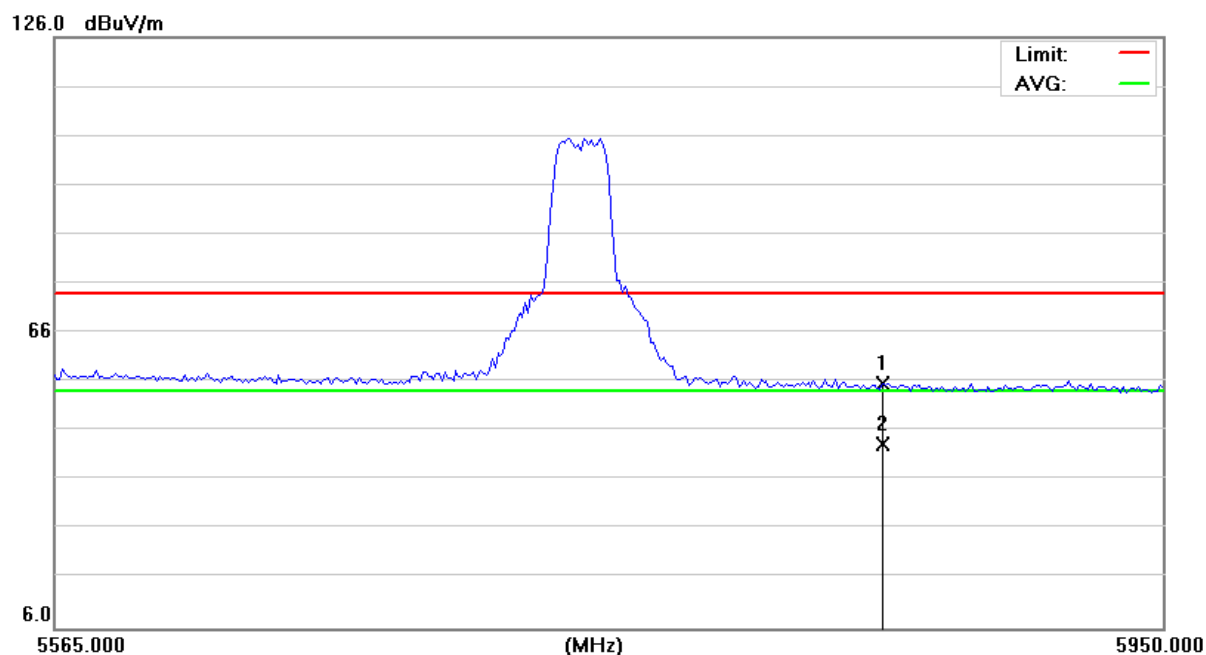


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11ac20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5850	41.84	13.74	55.58	74.00	-18.42	peak
H	5850	29.51	13.74	43.25	54.00	-10.75	AVG

Remark:

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

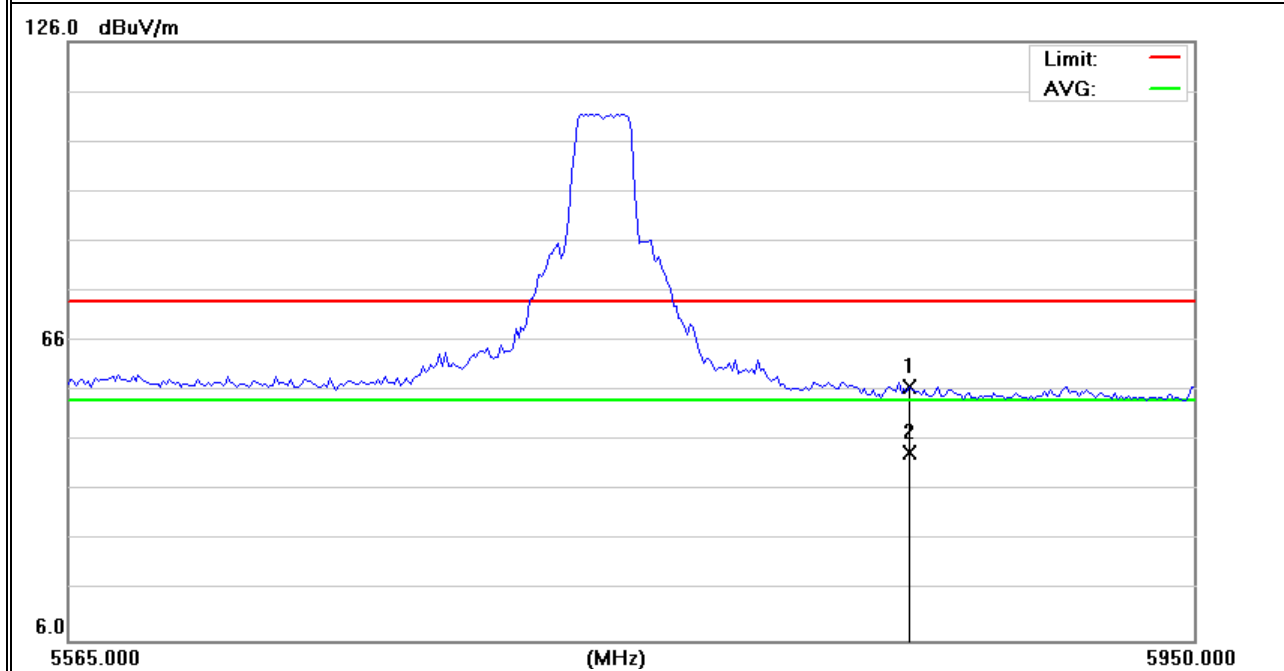


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11ac20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5850	43.02	13.74	56.76	74.00	-17.24	peak
V	5850	29.92	13.74	43.66	54.00	-10.34	AVG

Remark:

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

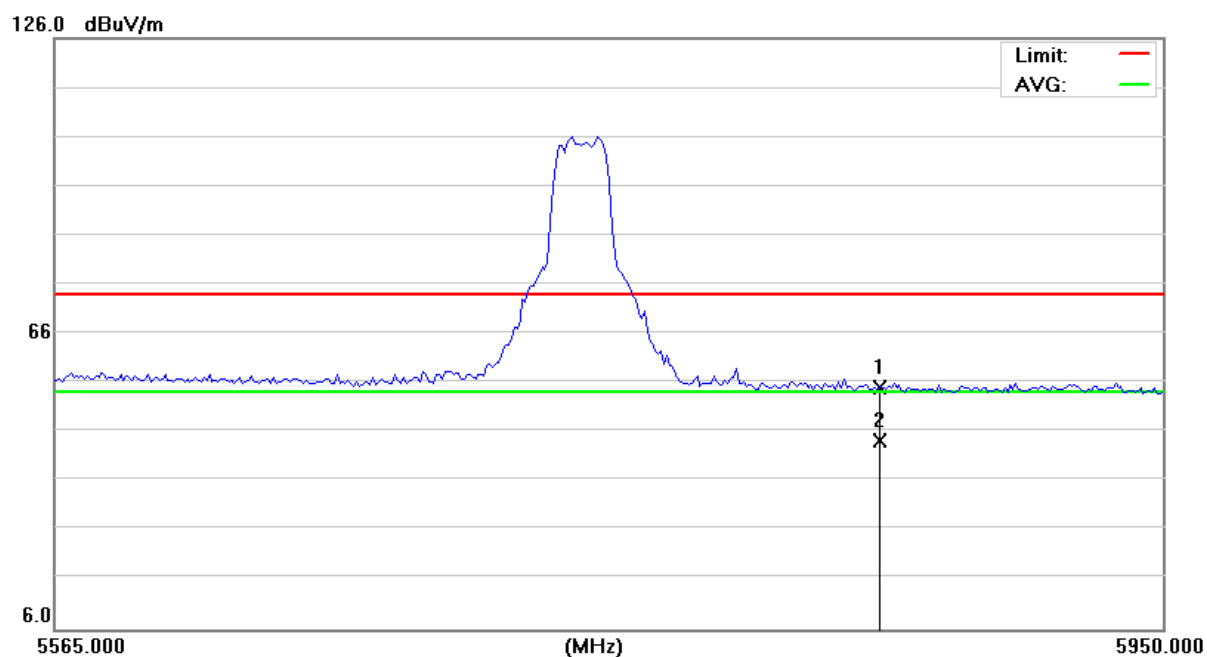


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11n20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5850	41.30	13.74	55.04	74.00	-18.96	peak
H	5850	30.51	13.74	44.25	54.00	-9.75	AVG

Remark:

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

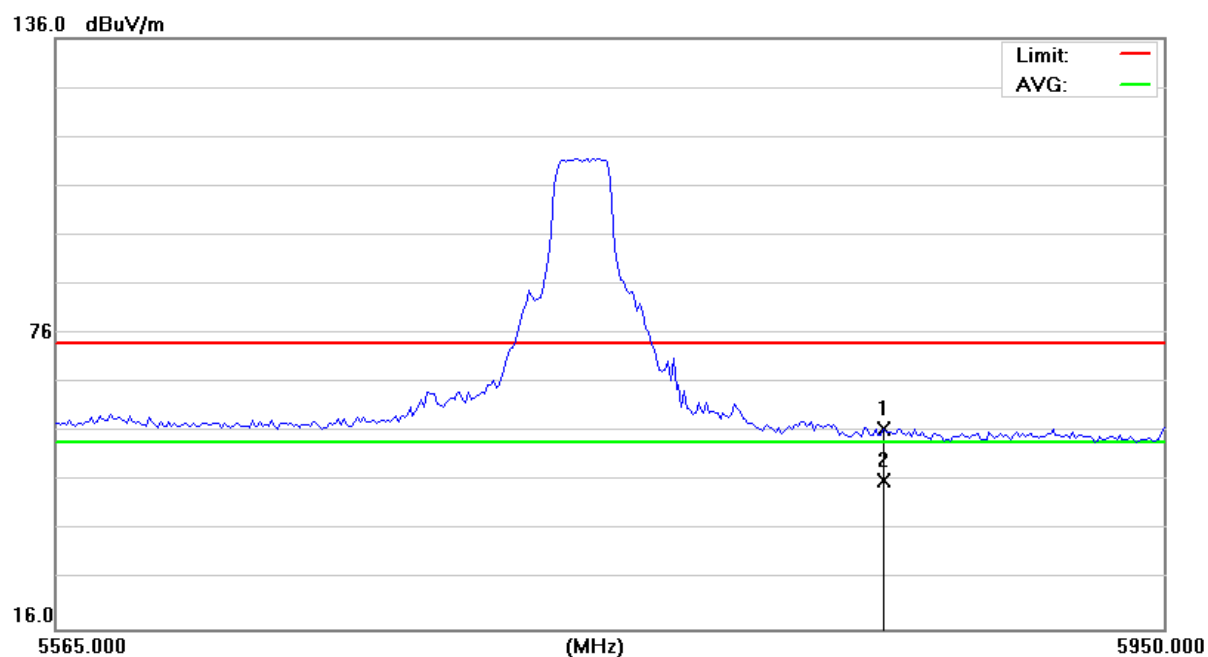


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11n20		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5850	43.02	13.74	56.76	74.00	-17.24	peak
V	5850	32.37	13.74	46.11	54.00	-7.89	AVG

Remark:

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

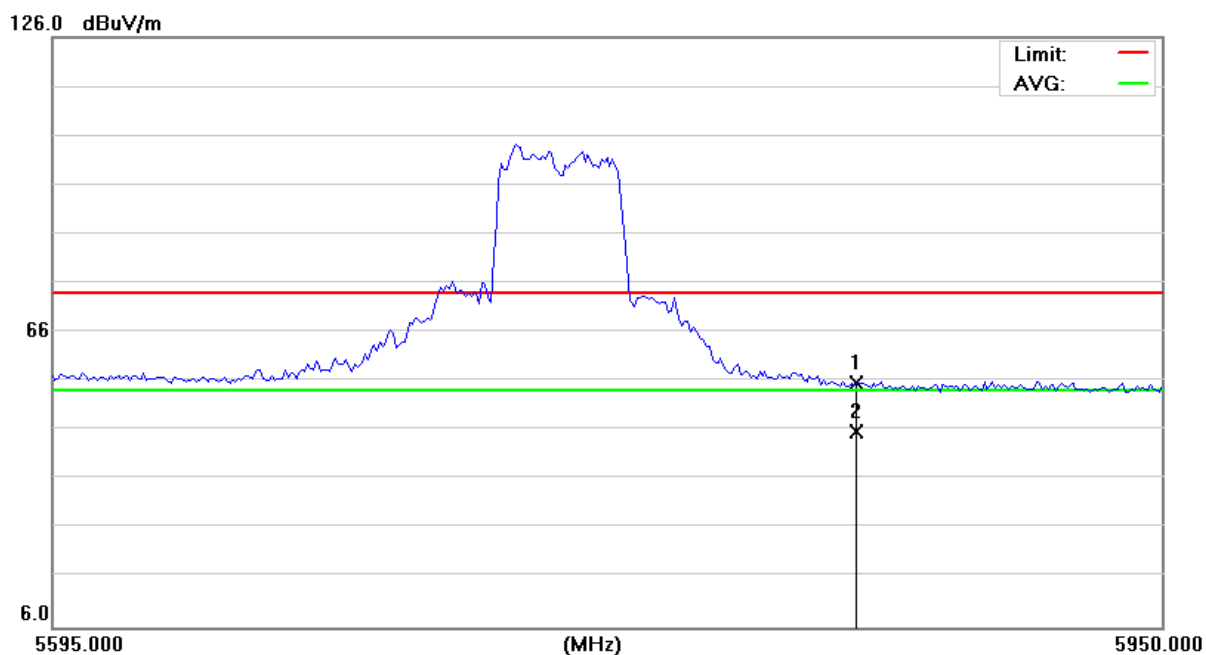


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11ac40		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBuV)	Factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
H	5850	41.98	13.74	55.72	74.00	-18.28	peak
H	5850	31.91	13.74	45.65	54.00	-8.35	AVG

Remark:

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

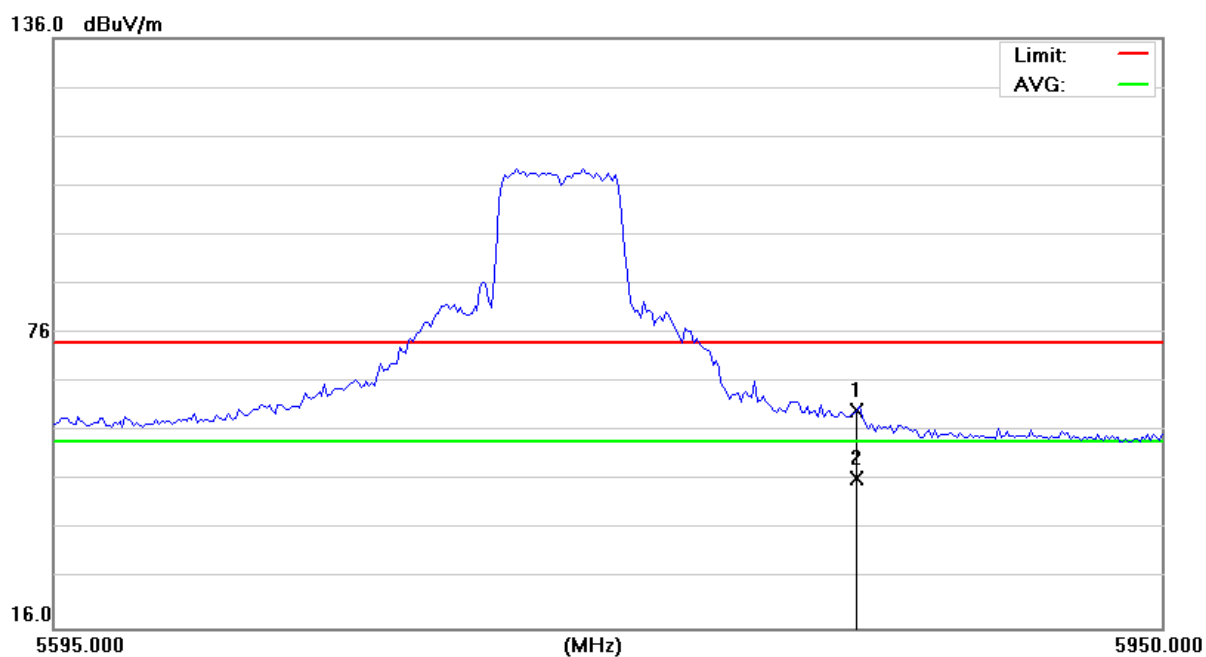


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11ac40		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5850	46.58	13.74	60.32	74.00	-13.68	peak
V	5850	32.58	13.74	46.32	54.00	-7.68	AVG

Remark:

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

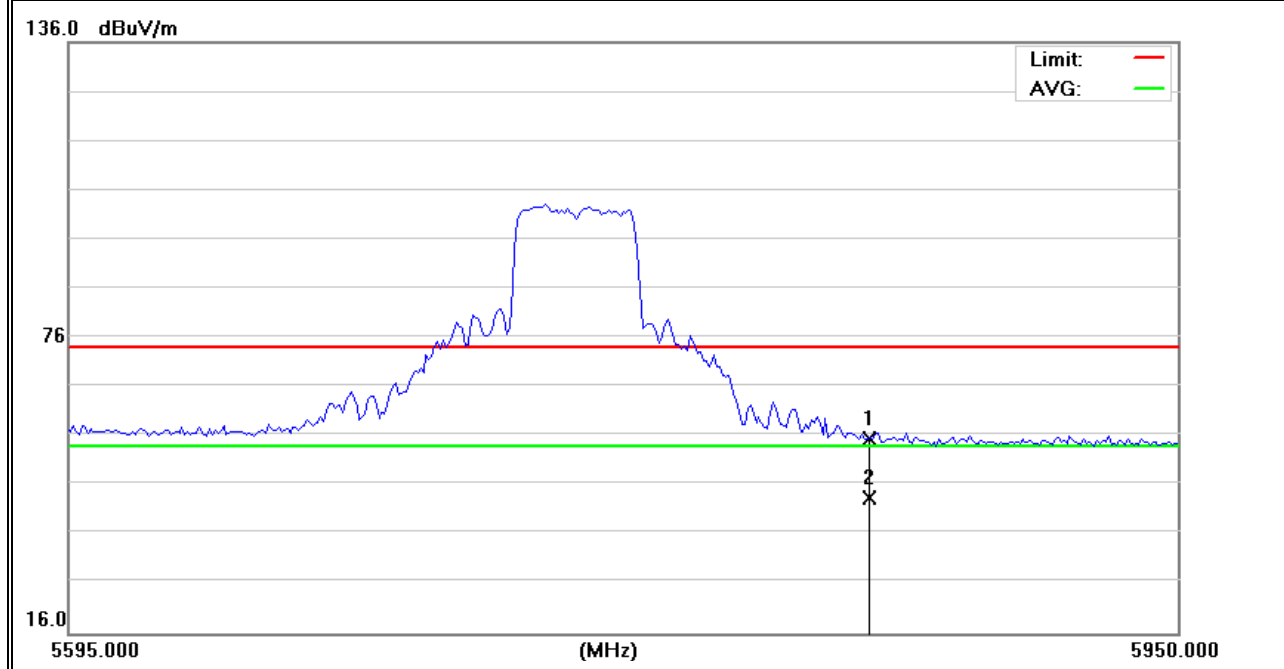


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11n40		

Polar (H/V)	Frequency (MHz)	Meter Reading (dBUV)	Factor (dB)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
H	5850	41.82	13.74	55.56	74.00	-18.44	peak
H	5850	29.62	13.74	43.36	54.00	-10.64	AVG

Remark:

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

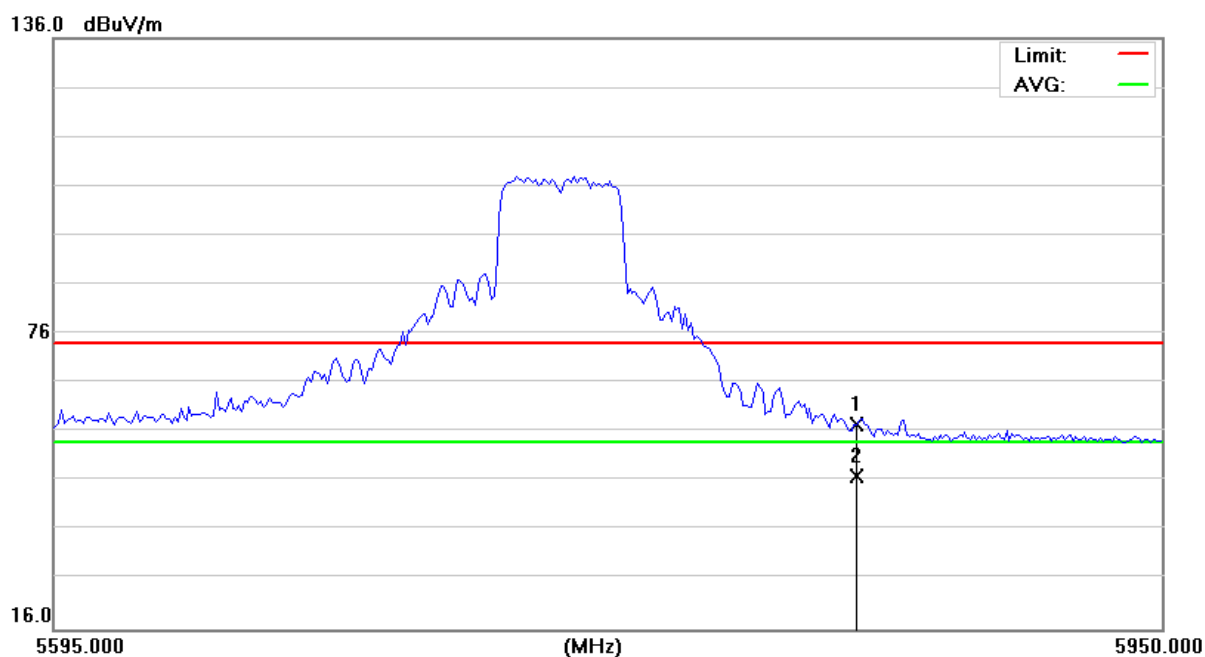


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11n40		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5850	43.84	13.74	57.58	74.00	-16.42	peak
V	5850	33.38	13.74	47.12	54.00	-6.88	AVG

Remark:

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

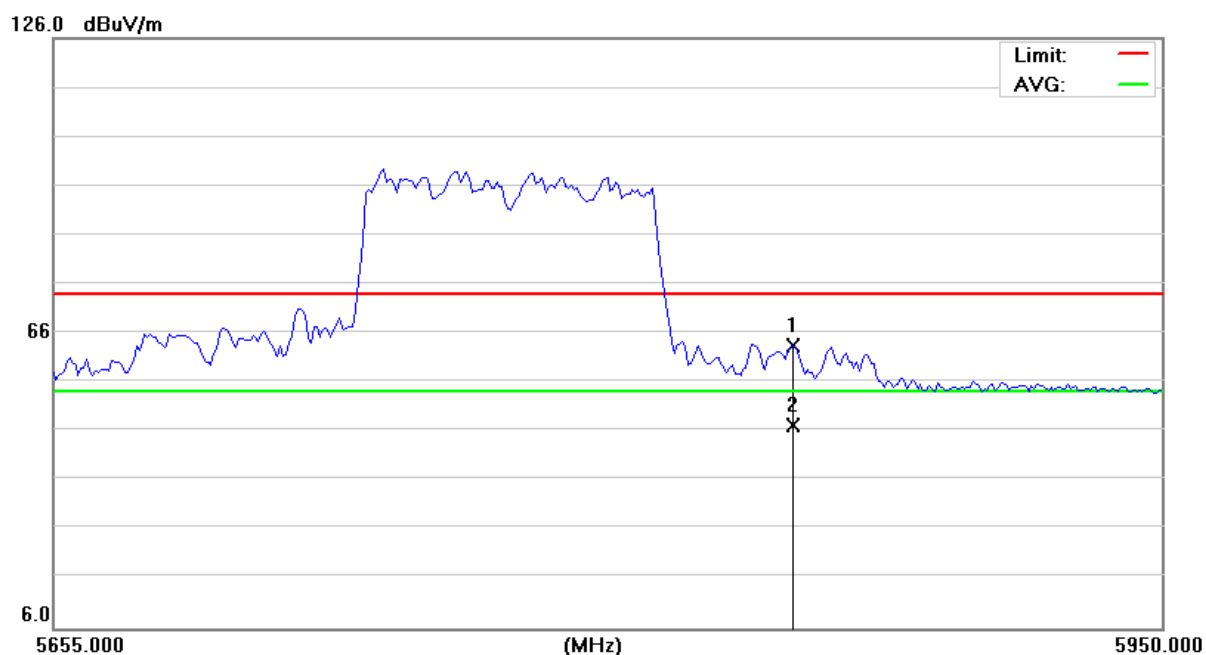


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11ac80		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
H	5850	49.79	13.74	63.53	74.00	-10.47	peak
H	5850	33.37	13.74	47.11	54.00	-6.89	AVG

Remark:

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

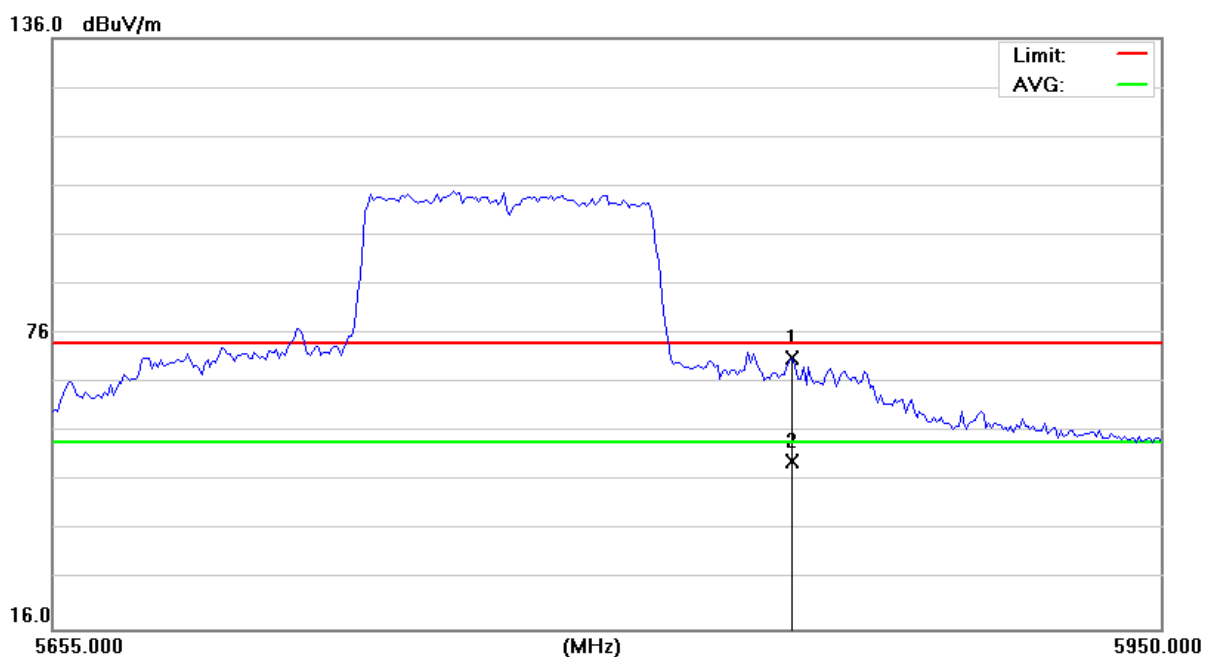


EUT :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX(5.8G) - 802.11ac80		

Polar (H/V)	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Remark
	(MHz)	(dBuV)	(dB)	(dBuV/m)	(dBuV/m)	(dB)	
V	5850.000	57.20	13.74	70.94	74.00	-3.06	QP
V	5850.000	36.38	13.74	50.12	54.00	-3.88	QP

Remark:

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



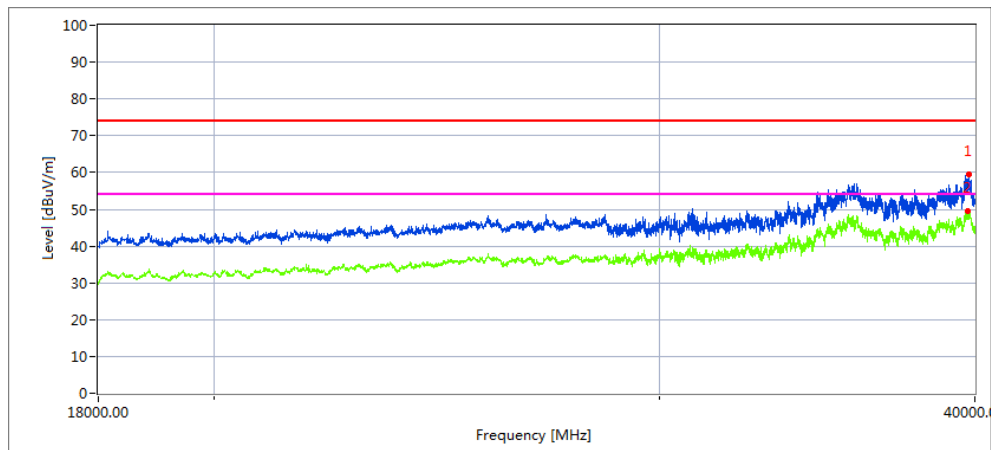
2.2.10 TEST RESULTS (18GHz-40GHz)

EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	20 °C	Relative Humidity :	48%
Pressure :	1010 hPa	Test Voltage :	DC 19V
Test Mode :	TX (5.2G)-802.11a 5180MHz~5240MHz; TX (5.3G)-802.11a 5260MHz~5320MHz; TX (5.6G)-802.11a 5500MHz~5700MHz; TX (5.8G)-802.11a 5745MHz~5825MHz		

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

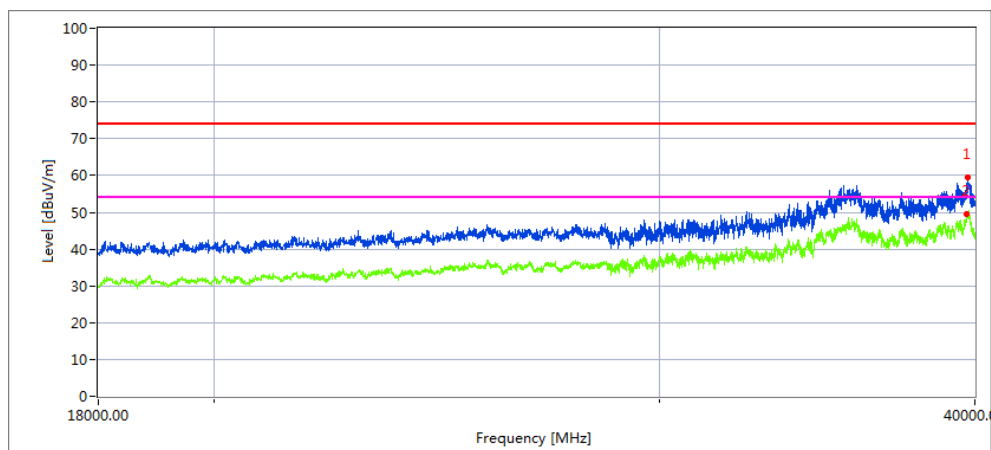
Low Channel (5180 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39678.155	34.65	20.09	44.07	43.48	55.33	74	-18.67	Peak
39678.155	31.53	20.09	44.07	43.48	41.69	54	-12.31	AVG

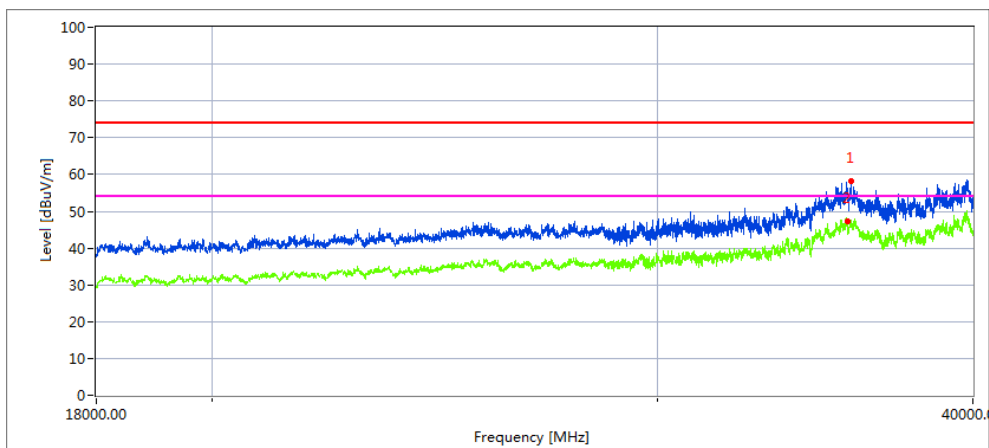
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39744.551	35.39	20.09	44.1	43.22	56.36	74	-17.6	Peak
39744.551	32.96	20.09	44.1	43.22	43.15	54	-10.9	AVG

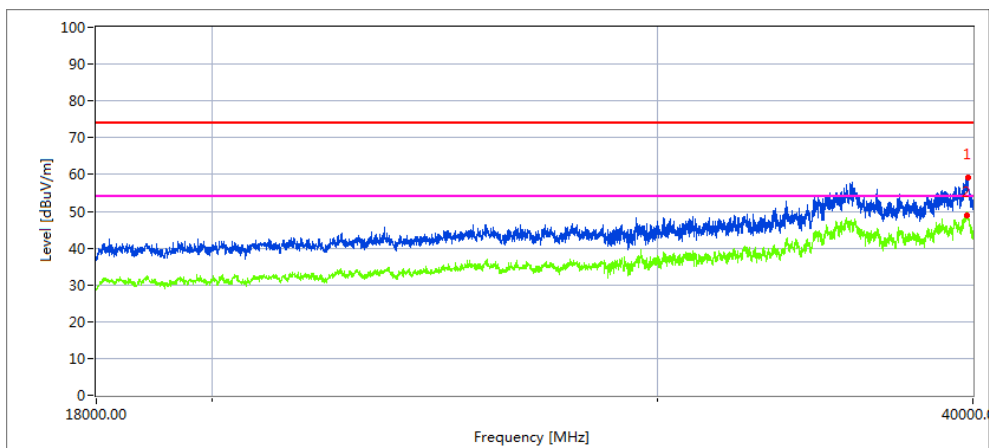
High Channel (5240 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39772.155	35.48	20.09	44.1	43.22	56.45	74	-17.6	Peak
39772.155	33.07	20.09	44.1	43.22	43.26	54	-10.7	AVG

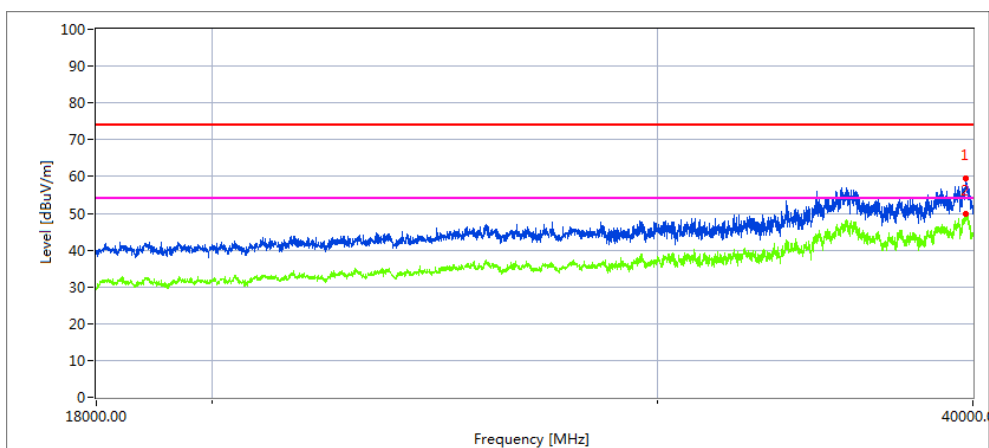
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39773.15	34.18	20.09	44.1	43.22	55.15	74	-18.9	Peak
39773.15	32.4	20.09	44.1	43.22	42.59	54	-11.4	AVG

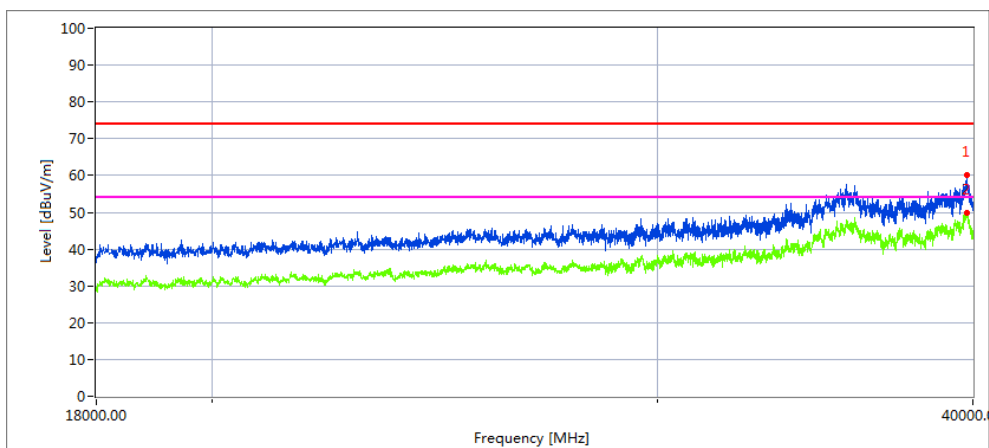
Low Channel (5260 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39790.74	36.53	20.09	44.1	43.22	57.5	74	-16.5	Peak
39790.74	32.41	20.09	44.1	43.22	42.6	54	-11.4	AVG

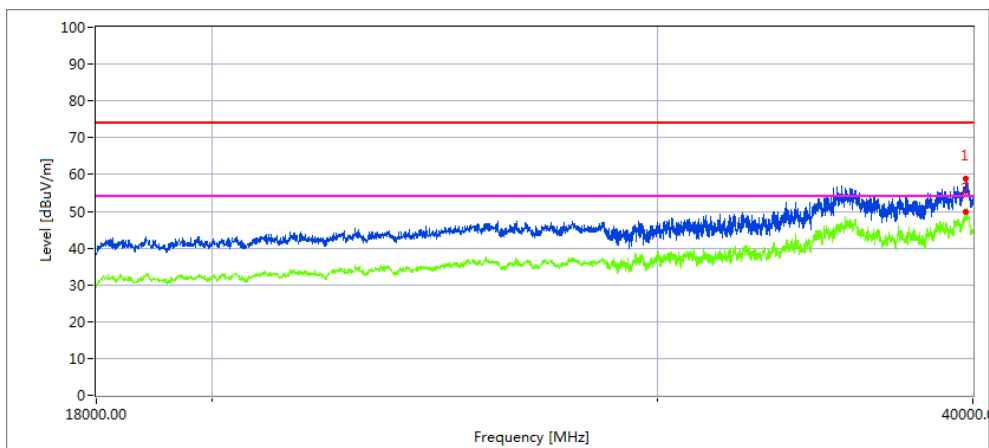
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamplifier Factor	Emission Level	Limits	Margin	Remark
39478.22	30.58	20.09	44.07	43.48	51.26	74	-22.7	Peak
39478.22	32.99	20.09	44.07	43.48	43.15	54	-10.9	AVG

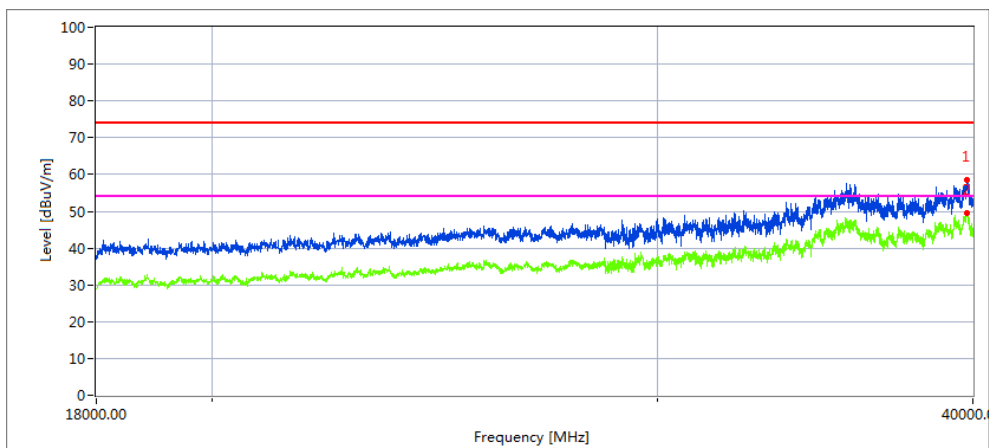
High Channel (5320 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39665.15	36.05	20.09	44.1	43.22	57.02	74	-17.0	Peak
39665.15	33.96	20.09	44.1	43.22	44.15	54	-9.9	AVG

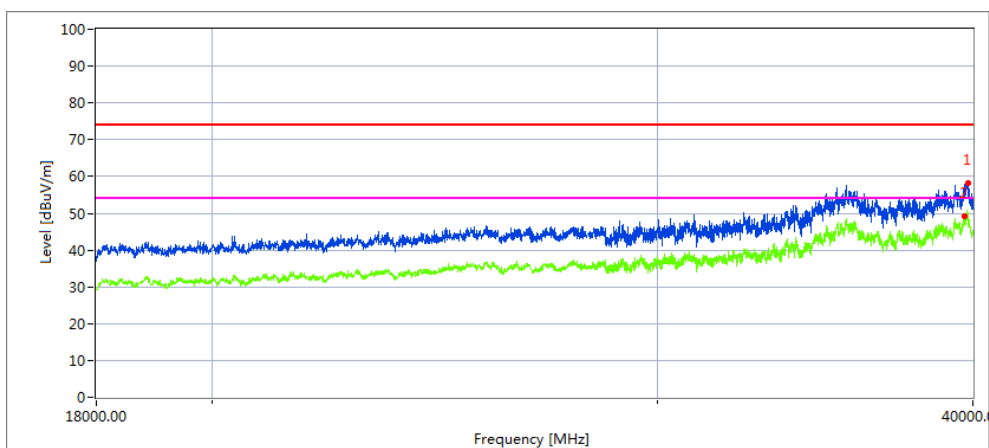
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39718.932	36.53	20.09	44.1	43.22	57.5	74	-16.5	Peak
39732.004	33.41	20.09	44.1	43.22	43.6	54	-10.4	AVG

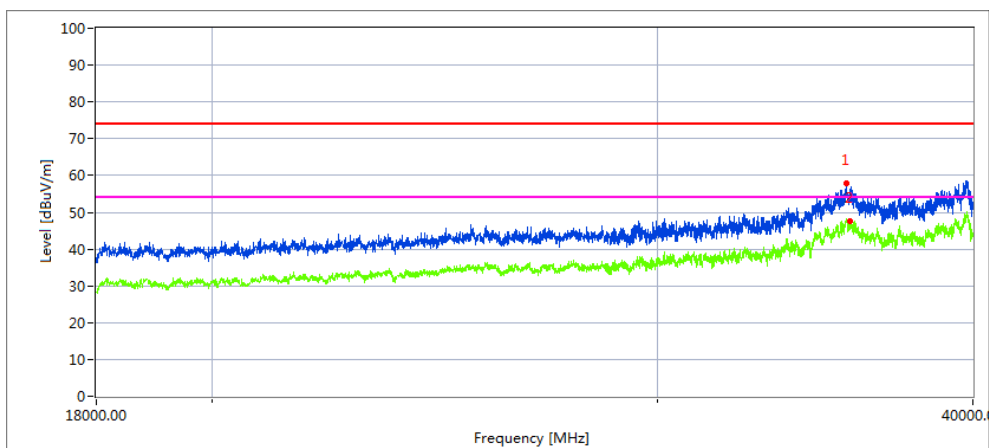
Low Channel (5500 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39665.854	35.34	20.09	44.07	43.48	56.02	74	-17.98	Peak
39665.854	33.05	20.09	44.07	43.48	43.21	54	-10.79	AVG

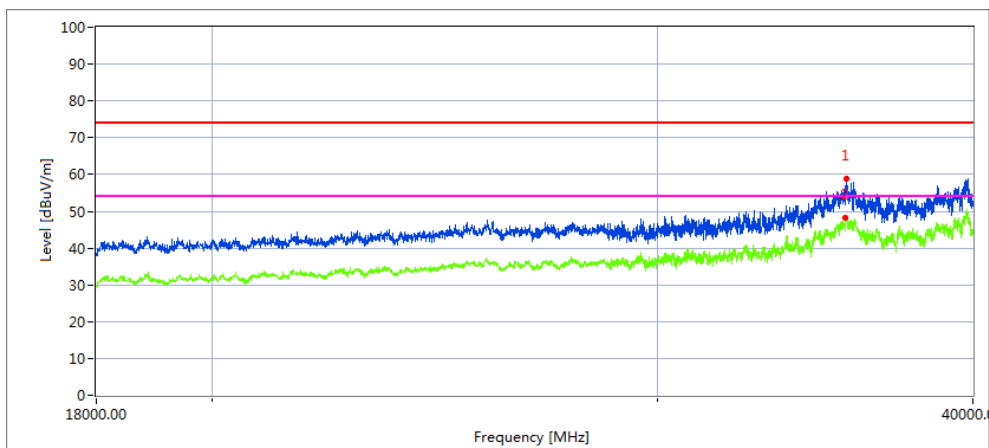
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39698.447	36.28	20.09	44.1	43.22	57.25	74	-16.8	Peak
39698.447	31.13	20.09	44.1	43.22	41.32	54	-12.7	AVG

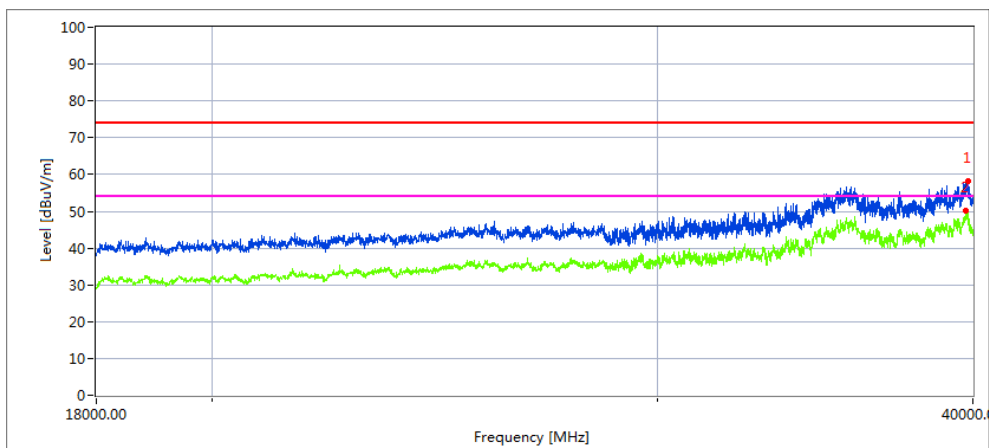
High Channel (5700 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39758.155	34.18	20.09	44.1	43.22	55.15	74	-18.9	Peak
39758.155	32.06	20.09	44.1	43.22	42.25	54	-11.8	AVG

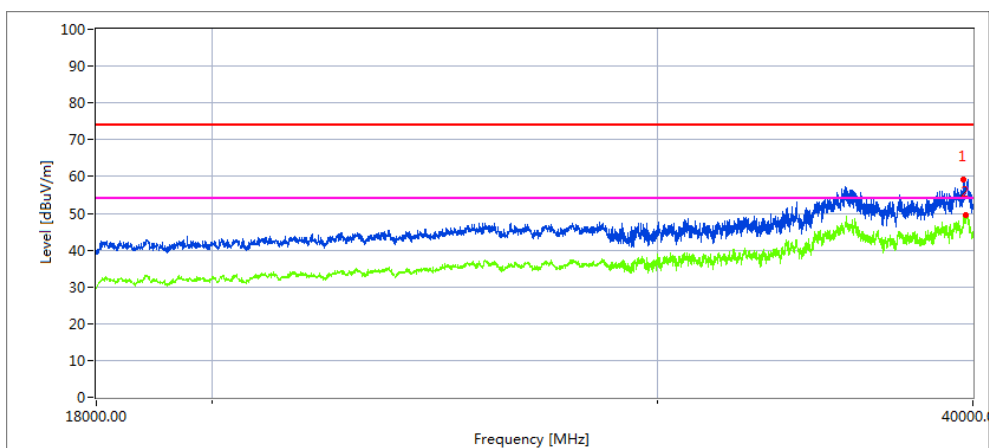
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39771.25	35.39	20.09	44.1	43.22	56.36	74	-17.6	Peak
39771.25	31.13	20.09	44.1	43.22	41.32	54	-12.7	AVG

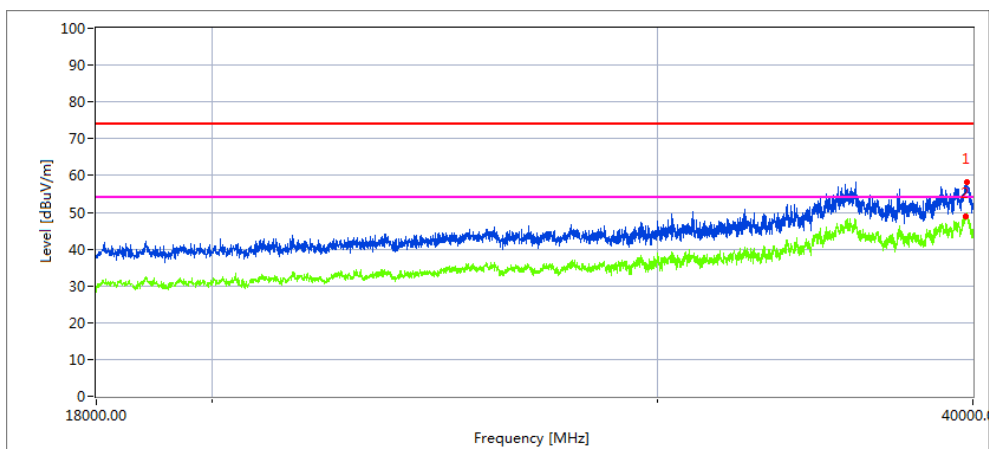
Low Channel (5745 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39788.45	35.48	20.09	44.1	43.22	56.45	74	-17.6	Peak
39788.45	31.06	20.09	44.1	43.22	41.25	54	-12.8	AVG

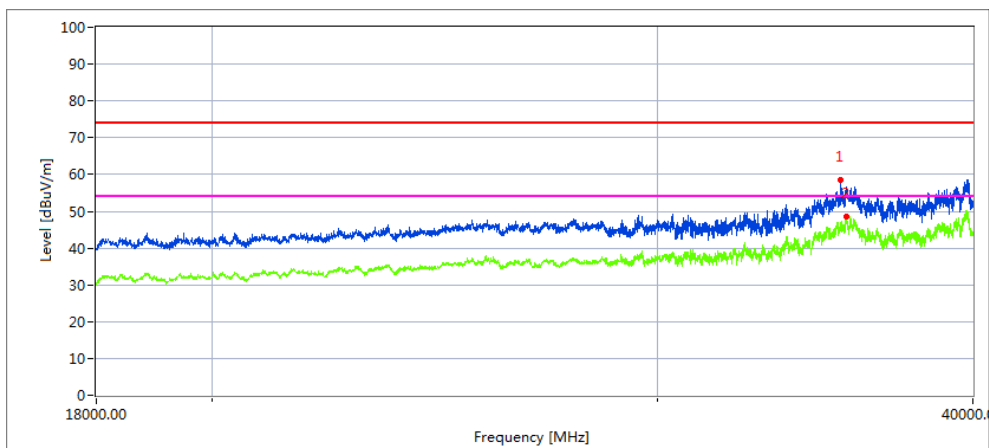
Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39485.12	31.68	20.09	44.07	43.48	52.36	74	-21.6	Peak
39485.12	31.99	20.09	44.07	43.48	42.15	54	-11.9	AVG

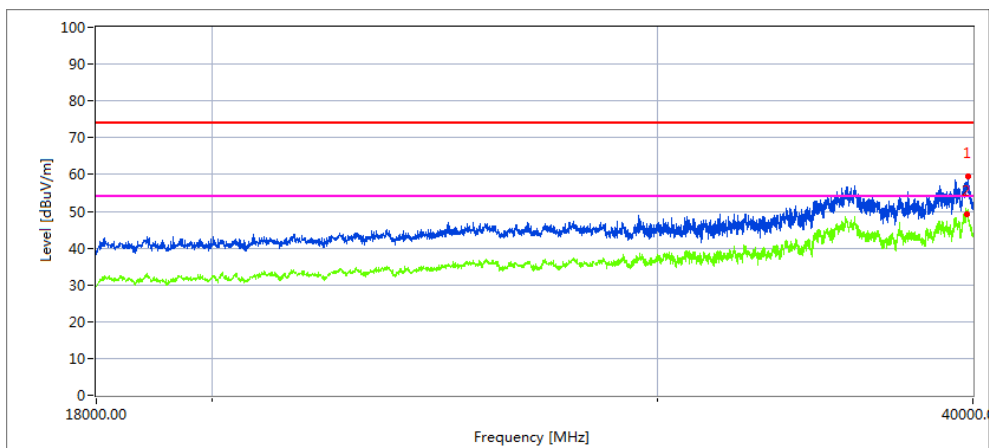
High Channel (5825 MHz)-Above 1G

Horizontal



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39698.12	35.91	20.09	44.1	43.22	56.88	74	-17.1	Peak
39698.12	32.83	20.09	44.1	43.22	43.02	54	-11.0	AVG

Vertical



Frequency	Meter Reading	Cable loss	Antenna Factor	Preamp Factor	Emission Level	Limits	Margin	Remark
39774.15	33.18	20.09	44.1	43.22	54.15	74	-19.9	Peak
39774.15	32.39	20.09	44.1	43.22	42.58	54	-11.4	AVG

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 $11 \text{ dBm} + 10 \log B$, 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.

3.2 TEST PROCEDURE

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

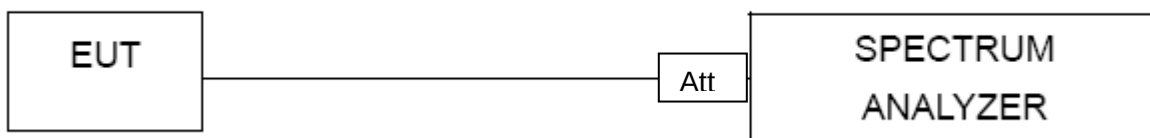
- a) Set $RBW \geq 1/T$, where T is defined in section II.B.I.a).
- b) Set $VBW \geq 3 RBW$.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/RBW)$ to the measured result, whereas $RBW (< 500 \text{ KHz})$ is the reduced resolution bandwidth of the spectrum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

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

3.3 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 :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1015 hPa	Test Voltage :	DC 19V
Test Mode :	TX Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz), Band 2C (5470-5725MHz), Band 3 (5745-5825MHz)		

Note: Band1&Band2A&Band2C For 802.11n/ac 5GHz has MIMO mode.Direction gain=8.71dbi
 8.71dbi>6.0dbi so power density limit= 11-(8.71-6)=8.29 in dBm
 Band3 For 802.11n/ac 5GHz has MIMO mode.Direction gain=8.71dbi
 8.71dbi>6.0dbi so power density limit= 30-(8.71-6)=27.29 in dBm

Test data reference attachment.

4. 26DB & 99% EMISSION BANDWIDTH

4.1 APPLIED PROCEDURES / LIMIT

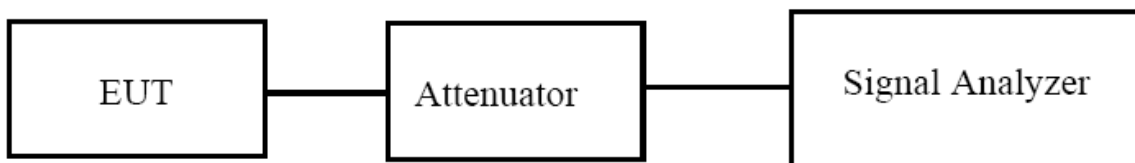
The maximum power spectral density is measured as a conducted emission by direct connection of a calibrated test instrument to the equipment under test. If the device cannot be connected directly, alternative techniques acceptable to the Commission may be used. Measurements in the 5.725-5.85 GHz band 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 $\geq 3 \cdot$ 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 :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
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

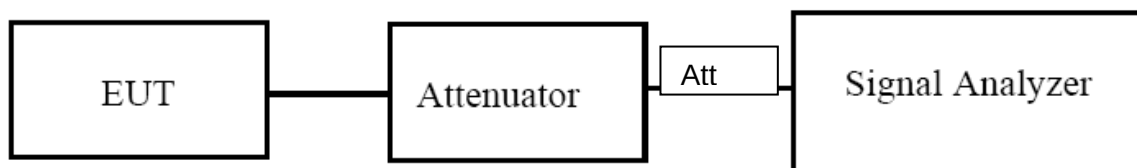
Section 15.407(e) specifies the minimum 6 dB emission bandwidth of at least 500 KHz for the band 5.715-5.85 GHz. The following procedure shall be used for measuring this bandwidth:

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

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 :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
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 conducted output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	250mW
5250~5350	250mW
5470~5725	250mW
5725~5850	1W

The maximum e.i.r.p should not exceed:

Frequency Band(MHz)	Limit
5150~5250	200mW or 10dBm +10logB whichever is less
5725~5850	N/A

Note: Where "B" is the 99% emission bandwidth in MHz

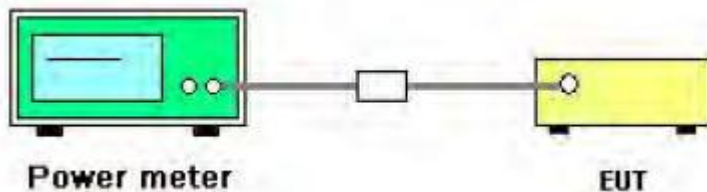
6.2 TEST PROCEDURE

- Method PM is Measurement using an RF average power meter. The procedure for this method is as follows:
 - a) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
 - 1) The EUT is configured to transmit continuously, or to transmit with a constant duty cycle.
 - 2) At all times when the EUT is transmitting, it shall be transmitting at its maximum power control level.
 - 3) The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
 - b) If the transmitter does not transmit continuously, measure the duty cycle D of the transmitter output signal as described in 12.2.
 - c) Measure the average power of the transmitter. This measurement is an average over both the ON and OFF periods of the transmitter.
 - d) Adjust the measurement in dBm by adding $[10 \log (1 / D)]$, where D is the duty cycle {e.g., $[10 \log (1 / 0.25)]$, if the duty cycle is 25%}.

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 :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX (5G) Mode Frequency Band 1 (5150-5250MHz), Band 2A (5250-5350MHz) Band 2C, (5470-5725MHz), Band 3 (5725-5850MHz)		

Note: Band1&Band2A&Band2C For 802.11n/ac 5GHz has MIMO mode. Directional gain=8.71dbi
 8.71dbi>6.0dbi so power limit= 24-(8.71-6)=21.29 in dBm
 Band3 For 802.11n/ac 5GHz has MIMO mode. Directional gain=8.71dbi
 8.71dbi>6.0dbi so power limit= 30-(8.71-6)=27.29 in dBm

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)(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: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

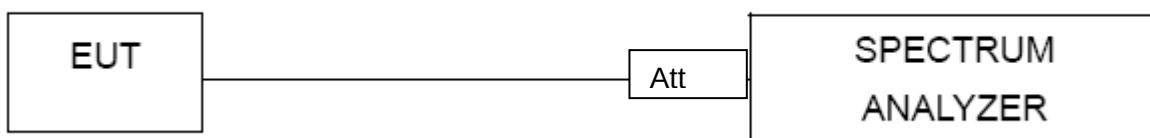
7.2 TEST PROCEDURE

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 :	Formovie Mini Projector Dice	Model Name :	M055FGN
Temperature :	26 °C	Relative Humidity :	54%
Pressure :	1012 hPa	Test Voltage :	DC 19V

Test data reference attachment.

8. Frequency Stability Measurement

8.1 LIMIT

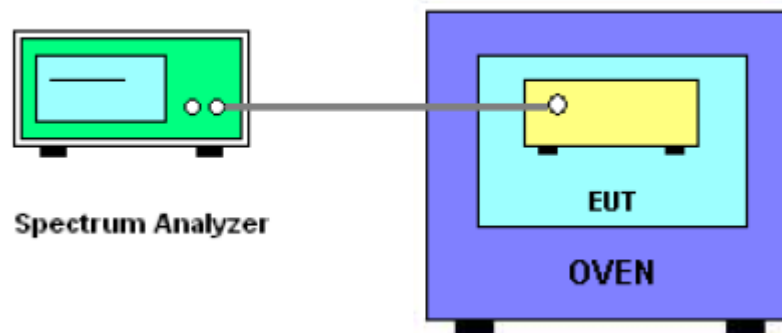
Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be ± 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification).

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. f_c is declaring of channel frequency. Then the frequency error formula is $(f_c - f)/f_c \times 10^6$ ppm and the limit is less than ± 20 ppm (IEEE 802.11n specification).
6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value
7. Extreme temperature is $-20^\circ\text{C} \sim 70^\circ\text{C}$.

8.3 TEST SETUP LAYOUT



8.4 EUT OPERATION DURING TEST

1. The EUT was programmed to be in continuously un-modulation transmitting mode.
2. The module has two antennas, and the worst data is Antenna 1, only shown Antenna 1 Plot.

8.5 TEST RESULTS

EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 19V
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)	19.00	5180.0231	5180	0.0231	-4.4595
		V max (V)	21.85	5180.0149	5180	0.0149	-2.8764
		V min (V)	16.15	5180.0120	5180	0.0120	-2.3166
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)	19	T (°C)	-20	5180.0119	5180	0.0119	-2.2973
		T (°C)	-10	5180.0123	5180	0.0123	-2.3745
		T (°C)	0	5180.0261	5180	0.0261	-5.0386
		T (°C)	10	5180.0144	5180	0.0144	-2.7799
		T (°C)	20	5180.0128	5180	0.0128	-2.4710
		T (°C)	30	5180.0142	5180	0.0142	-2.7413
		T (°C)	40	5180.0125	5180	0.0125	-2.4131
		T (°C)	50	5180.0151	5180	0.0151	-2.9151
		T (°C)	60	5180.0169	5180	0.0169	-3.2625
		T (°C)	70	5180.0125	5180	0.0125	-2.4131
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)	19.00	5200.0165	5200	0.0165	-3.1731
		V max (V)	21.85	5200.0123	5200	0.0123	-2.3654
		V min (V)	16.15	5200.0141	5200	0.0141	-2.7115
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)	19	T (°C)	-20	5200.0320	5200	0.0320	-6.1538
		T (°C)	-10	5200.0132	5200	0.0132	-2.5385
		T (°C)	0	5200.0320	5200	0.0320	-6.1538
		T (°C)	10	5200.0215	5200	0.0215	-4.1346
		T (°C)	20	5200.0143	5200	0.0143	-2.7500
		T (°C)	30	5200.0130	5200	0.0130	-2.5000
		T (°C)	40	5200.0189	5200	0.0189	-3.6346
		T (°C)	50	5200.0181	5200	0.0181	-3.4808
		T (°C)	60	5200.0138	5200	0.0138	-2.6538
		T (°C)	70	5200.0131	5200	0.0131	-2.5192
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)	19.00	5240.0125	5240	0.0125	-2.3855
		V max (V)	21.85	5240.0182	5240	0.0182	-3.4733
		V min (V)	16.15	5240.0165	5240	0.0165	-3.1489
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)	19	T (°C)	-20	5240.0122	5240	0.0122	-2.3282
		T (°C)	-10	5240.0164	5240	0.0164	-3.1298
		T (°C)	0	5240.0162	5240	0.0162	-3.0916
		T (°C)	10	5240.0237	5240	0.0237	-4.5229
		T (°C)	20	5240.0133	5240	0.0133	-2.5382
		T (°C)	30	5240.0155	5240	0.0155	-2.9580
		T (°C)	40	5240.0185	5240	0.0185	-3.5305
		T (°C)	50	5240.0173	5240	0.0173	-3.3015
		T (°C)	60	5240.0135	5240	0.0135	-2.5763
		T (°C)	70	5240.0119	5240	0.0119	-2.2710
Limits				Within 5150-5250MHz			
Result				Complies			

EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 19V
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)	19.00	#####	5260	0.01601	-3.0437
		V max (V)	21.85	#####	5260	0.01421	-2.7015
		V min (V)	16.15	#####	5260	0.01961	-3.7281
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)	19	T (°C)	-20	5260.00531	5260	0.00531	-1.0095
		T (°C)	-10	5260.02291	5260	0.02291	-4.3555
		T (°C)	0	5260.00661	5260	0.00661	-1.2567
		T (°C)	10	5260.01471	5260	0.01471	-2.7966
		T (°C)	20	5260.00601	5260	0.00601	-1.1426
		T (°C)	30	5260.00801	5260	0.00801	-1.5228
		T (°C)	40	5260.01451	5260	0.01451	-2.7586
		T (°C)	50	5260.00631	5260	0.00631	-1.1996
		T (°C)	60	5260.02261	5260	0.02261	-4.2985
		T (°C)	70	5260.02101	5260	0.02101	-3.9943
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)	19.00	#####	5280	0.01221	-2.3125
		V max (V)	21.85	#####	5280	0.01201	-2.2746
		V min (V)	16.15	#####	5280	0.01321	-2.5019
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)	19	T (°C)	-20	5280.01661	5280	0.01661	-3.1458
		T (°C)	-10	5280.01531	5280	0.01531	-2.8996
		T (°C)	0	5280.00911	5280	0.00911	-1.7254
		T (°C)	10	5280.01001	5280	0.01001	-1.8958
		T (°C)	20	5280.01011	5280	0.01011	-1.9148
		T (°C)	30	5280.00811	5280	0.00811	-1.5360
		T (°C)	40	5280.01661	5280	0.01661	-3.1458
		T (°C)	50	5280.01071	5280	0.01071	-2.0284
		T (°C)	60	5280.01251	5280	0.01251	-2.3693
		T (°C)	70	5280.00711	5280	0.00711	-1.3466
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)	19.00	#####	5320	0.02361	-4.4380
		V max (V)	21.85	#####	5320	0.01881	-3.5357
		V min (V)	16.15	#####	5320	0.01651	-3.1034
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)	19	T (°C)	-20	5320.01181	5320	0.01181	-2.2199
		T (°C)	-10	5320.01041	5320	0.01041	-1.9568
		T (°C)	0	5320.01281	5320	0.01281	-2.4079
		T (°C)	10	5320.00601	5320	0.00601	-1.1297
		T (°C)	20	5320.00561	5320	0.00561	-1.0545
		T (°C)	30	5320.01151	5320	0.01151	-2.1635
		T (°C)	40	5320.02351	5320	0.02351	-4.4192
		T (°C)	50	5320.01491	5320	0.01491	-2.8026
		T (°C)	60	5320.00791	5320	0.00791	-1.4868
		T (°C)	70	5320.02161	5320	0.02161	-4.0620
Limits				Within 5250-5350MHz			
Result				Complies			

EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 19V
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)	19.00	#####	5500	0.00439	-0.7982
		V max (V)	21.85	#####	5500	0.00276	-0.5018
		V min (V)	16.15	#####	5500	0.00045	-0.0818
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)	19	T (°C)	-20	5500.00468	5500	0.00468	-0.8509
		T (°C)	-10	5500.01159	5500	0.01159	-2.1073
		T (°C)	0	5500.00519	5500	0.00519	-0.9436
		T (°C)	10	5500.00532	5500	0.00532	-0.9673
		T (°C)	20	5500.00757	5500	0.00757	-1.3764
		T (°C)	30	5500.00459	5500	0.00459	-0.8345
		T (°C)	40	5500.00396	5500	0.00396	-0.7200
		T (°C)	50	5500.00187	5500	0.00187	-0.3400
		T (°C)	60	5500.00456	5500	0.00456	-0.8291
		T (°C)	70	5500.00727	5500	0.00727	-1.3218
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)	19.00	#####	5600	0.00586	-1.0464
		V max (V)	21.85	#####	5600	0.00765	-1.3661
		V min (V)	16.15	#####	5600	0.00702	-1.2536
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)	19	T (°C)	-20	5600.00867	5600	0.00867	-1.5482
		T (°C)	-10	5600.00244	5600	0.00244	-0.4357
		T (°C)	0	5600.00225	5600	0.00225	-0.4018
		T (°C)	10	5600.00694	5600	0.00694	-1.2393
		T (°C)	20	5600.00946	5600	0.00946	-1.6893
		T (°C)	30	5600.00313	5600	0.00313	-0.5589
		T (°C)	40	5600.00626	5600	0.00626	-1.1179
		T (°C)	50	5600.00643	5600	0.00643	-1.1482
		T (°C)	60	5600.01007	5600	0.01007	-1.7982
		T (°C)	70	5600.00442	5600	0.00442	-0.7893
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)	19.00	#####	5700	0.00589	-1.0333
		V max (V)	21.85	#####	5700	0.00756	-1.3263
		V min (V)	16.15	#####	5700	0.00938	-1.6456
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)	19	T (°C)	-20	5700.01078	5700	0.01078	-1.8912
		T (°C)	-10	5700.00574	5700	0.00574	-1.0070
		T (°C)	0	5700.00459	5700	0.00459	-0.8053
		T (°C)	10	5700.00343	5700	0.00343	-0.6018
		T (°C)	20	5700.00940	5700	0.00940	-1.6491
		T (°C)	30	5700.01103	5700	0.01103	-1.9351
		T (°C)	40	5700.00727	5700	0.00727	-1.2754
		T (°C)	50	5700.00309	5700	0.00309	-0.5421
		T (°C)	60	5700.00534	5700	0.00534	-0.9368
		T (°C)	70	5700.00529	5700	0.00529	-0.9281
Limits				Within 5470-5725MHz			
Result				Complies			

EUT :	Formovie Mini Projector Dice	Model Name. :	M055FGN
Temperature :	25 °C	Relative Humidity :	56%
Pressure :	1012 hPa	Test Voltage :	DC 19V
Test Mode :	TX Frequency(5745-5850MHz)		

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T nom (°C)	20	V nom (V)	19.00	5745.01826	5745	0.01826	-3.1776
		V max (V)	21.85	5745.01264	5745	0.01264	-2.2010
		V min (V)	16.15	5745.01963	5745	0.01963	-3.4164
Limits				Within 5745-5850MHz			
Result				Complies			

Voltage vs. Frequency Stability

Temperature vs. Frequency Stability

TEST CONDITIONS				Reference Frequency: 5745MHz			
				f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
V nom (V)	19	T (°C)	-20	5745.01845	5745	0.01845	-3.2109
		T (°C)	-10	5745.01680	5745	0.01680	-2.9251
		T (°C)	0	5745.01035	5745	0.01035	-1.8011
		T (°C)	10	5745.01202	5745	0.01202	-2.0920
		T (°C)	20	5745.00959	5745	0.00959	-1.6687
		T (°C)	30	5745.01084	5745	0.01084	-1.8866
		T (°C)	40	5745.01511	5745	0.01511	-2.6300
		T (°C)	50	5745.01475	5745	0.01475	-2.5671
		T (°C)	60	5745.01334	5745	0.01334	-2.3223
		T (°C)	70	5745.01120	5745	0.01120	-1.9493
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)	19.00	#####	5785	0.01108	-1.9160
		V max (V)	21.85	#####	5785	0.01572	-2.7180
		V min (V)	16.15	#####	5785	0.01364	-2.3583
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)	19	T (°C)	-20	5785.01171	5785	0.01171	-2.0249
		T (°C)	-10	5785.01388	5785	0.01388	-2.3998
		T (°C)	0	5785.01697	5785	0.01697	-2.9332
		T (°C)	10	5785.01006	5785	0.01006	-1.7391
		T (°C)	20	5785.01479	5785	0.01479	-2.5574
		T (°C)	30	5785.01145	5785	0.01145	-1.9800
		T (°C)	40	5785.00902	5785	0.00902	-1.5587
		T (°C)	50	5785.01322	5785	0.01322	-2.2852
		T (°C)	60	5785.01654	5785	0.01654	-2.8588
		T (°C)	70	5785.01632	5785	0.01632	-2.8217
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)	19.00	#####	5825	0.00958	-1.6454
		V max (V)	21.85	#####	5825	0.01269	-2.1783
		V min (V)	16.15	#####	5825	0.01825	-3.1333
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)	19	T (°C)	-20	5825.01014	5825	0.01014	-1.7416
		T (°C)	-10	5825.01567	5825	0.01567	-2.6904
		T (°C)	0	5825.01198	5825	0.01198	-2.0575
		T (°C)	10	5825.00912	5825	0.00912	-1.5652
		T (°C)	20	5825.01001	5825	0.01001	-1.7192
		T (°C)	30	5825.01780	5825	0.01780	-3.0559
		T (°C)	40	5825.01601	5825	0.01601	-2.7489
		T (°C)	50	5825.01008	5825	0.01008	-1.7308
		T (°C)	60	5825.01743	5825	0.01743	-2.9922
		T (°C)	70	5825.01452	5825	0.01452	-2.4921
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 $\geq$ 200 milliwatt	-64 dBm
EIRP < 200 milliwatt and power spectral density < 10 dBm/MHz	-62 dBm
EIRP < 200 milliwatt that do not meet the power spectral density requirement	-64 dBm
Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna. Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response. Note 3: EIRP is based on the highest antenna gain.	

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	$\text{Roundup}\left(\frac{1}{360} \cdot \frac{19 \cdot 10^6}{\text{PRI}_{\text{min}}}\right)$	60%	30
2	1-5	150-230	23-29	60%	30
3	6-10	200-500	16-18	60%	30
4	11-20	200-500	12-16	60%	30
Aggregate (Radar Types 1-4)				80%	120

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

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

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

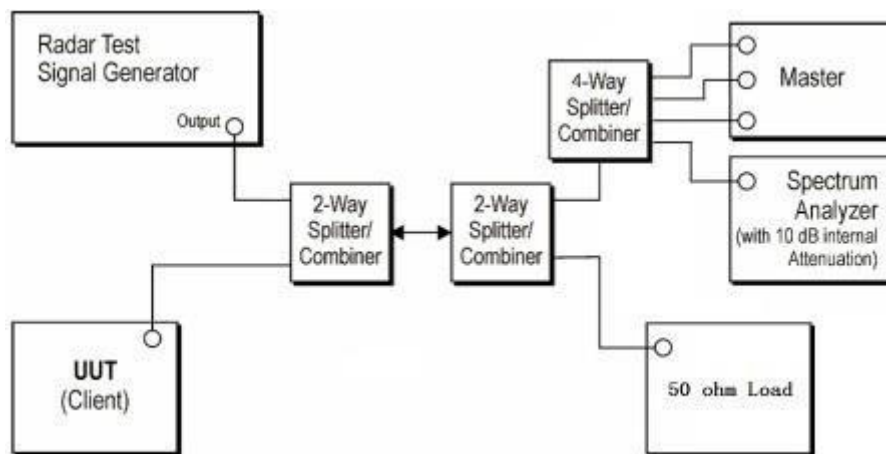
If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B. The aggregate is the average of the percentage of successful detections of short pulse radar types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

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 $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$ that had been taken into account the output power range and antenna gain.
- 3) The following equipment setup was used to calibrate the conducted radar waveform. A vector signal generator was utilized to establish the test signal level for radar type 0. During this process there were no transmissions by either the master or client device. The spectrum analyzer was switched to the zero spans (time domain) at the frequency of the radar waveform generator. Peak detection was used. The spectrum analyzer resolution bandwidth (RBW) and video bandwidth (VBW) were set to 3 MHz. The spectrum analyzer had offset -1.0dB to compensate RF cable loss 1.0dB.
- 4) The vector signal generator amplitude was set so that the power level measured at the spectrum analyzer was $-62\text{dBm} + 0\text{dBi} + 1\text{dB} = -61\text{dBm}$. Capture the spectrum analyzer plots on short pulse radar waveform.

9.6 CONDUCTED CALIBRATION SETUP



Wireless AP	Manufacturer	LINKSYS LLC
	Model NO.	WRT32X
	FCC ID	Q87-WRT3200ACM

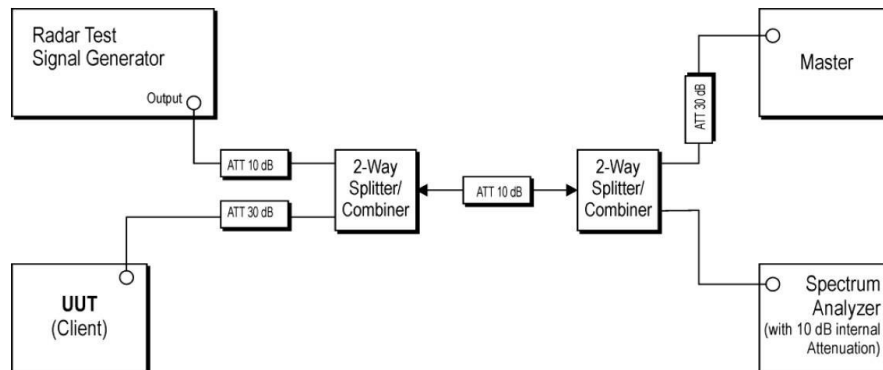
9.7 RADAR WAVEFORM CALIBRATION RESULT

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: $C(ms) = N \times Dwell(0.3ms)$; where C is the Closing Time, N is the number of spectrum analyzer sampling bins (intermittent control signals) showing a U-NII transmission and Dwell is the dwell time per bin.
8. Measurement the EUT for more than 30 minutes following the channel move time to verify that no transmission or beacons occur on this channel.

TEST MODE:

Please refer to the clause 2.2

**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 FPCB antenna(antenna gain: 5.82 dBi (Antenna1); 5.57 dBi (Antenna2)). It comply with the standard requirement.

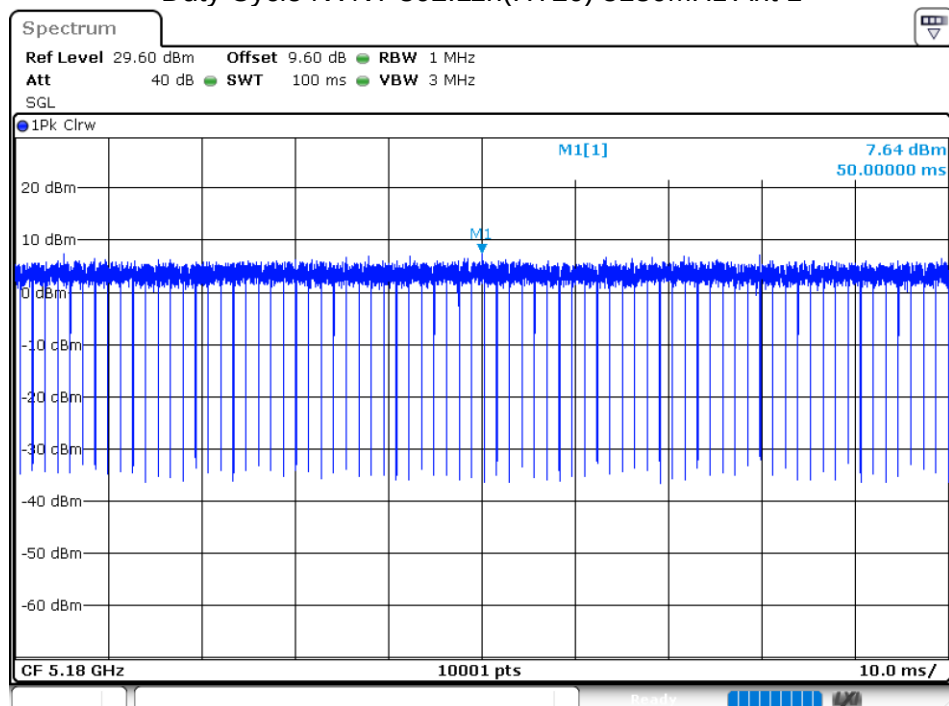
11. TEST RESULTS

11.1 DUTY CYCLE

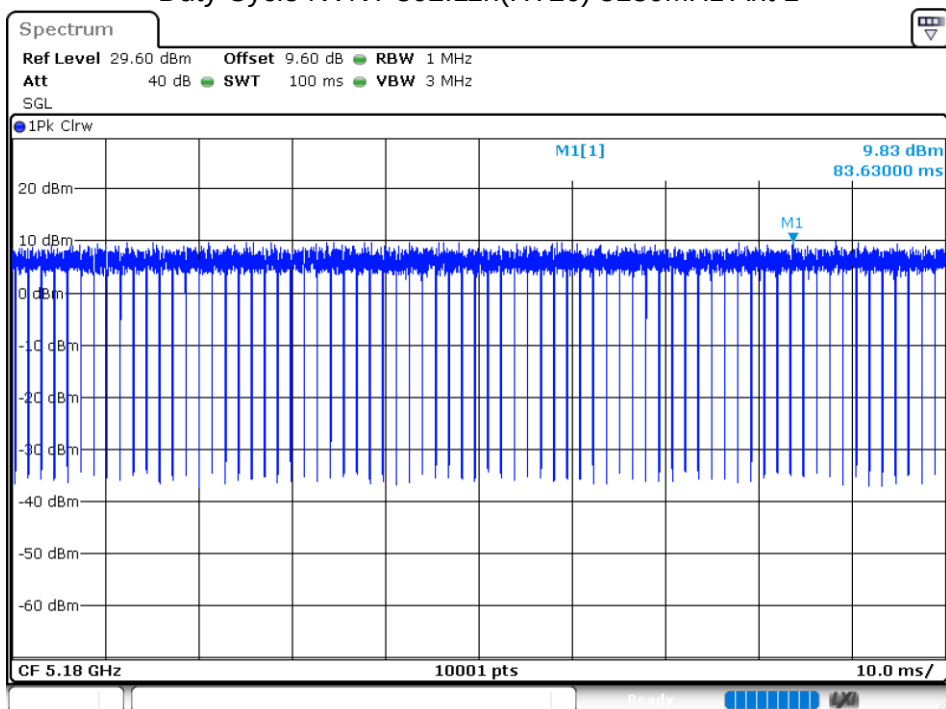
5.2G:

Antenna	Condition	Mode	Frequency (MHz)	Duty Cycle (%)
Ant 1	NVNT	802.11n(HT20)	5180	100
Ant 1	NVNT	802.11n(HT20)	5200	100
Ant 1	NVNT	802.11n(HT20)	5240	100
Ant 2	NVNT	802.11n(HT20)	5180	100
Ant 2	NVNT	802.11n(HT20)	5200	100
Ant 2	NVNT	802.11n(HT20)	5240	100
Ant 1	NVNT	802.11a	5200	100
Ant 1	NVNT	802.11a	5240	100
Ant 2	NVNT	802.11a	5180	100
Ant 2	NVNT	802.11a	5200	100
Ant 2	NVNT	802.11a	5240	100
Ant 1	NVNT	802.11ac20	5180	100
Ant 1	NVNT	802.11ac20	5200	100
Ant 1	NVNT	802.11ac20	5240	100
Ant 2	NVNT	802.11ac20	5180	100
Ant 2	NVNT	802.11ac20	5200	100
Ant 2	NVNT	802.11ac20	5240	100
Ant 1	NVNT	802.11ac40	5190	100
Ant 1	NVNT	802.11ac40	5230	99.67
Ant 2	NVNT	802.11ac40	5190	100
Ant 2	NVNT	802.11ac40	5230	99.71
Ant 1	NVNT	802.11ac80	5210	100
Ant 2	NVNT	802.11ac80	5210	100
Ant 1	NVNT	802.11n(HT40)	5190	100
Ant 1	NVNT	802.11n(HT40)	5230	100
Ant 2	NVNT	802.11n(HT40)	5190	100
Ant 2	NVNT	802.11n(HT40)	5230	100

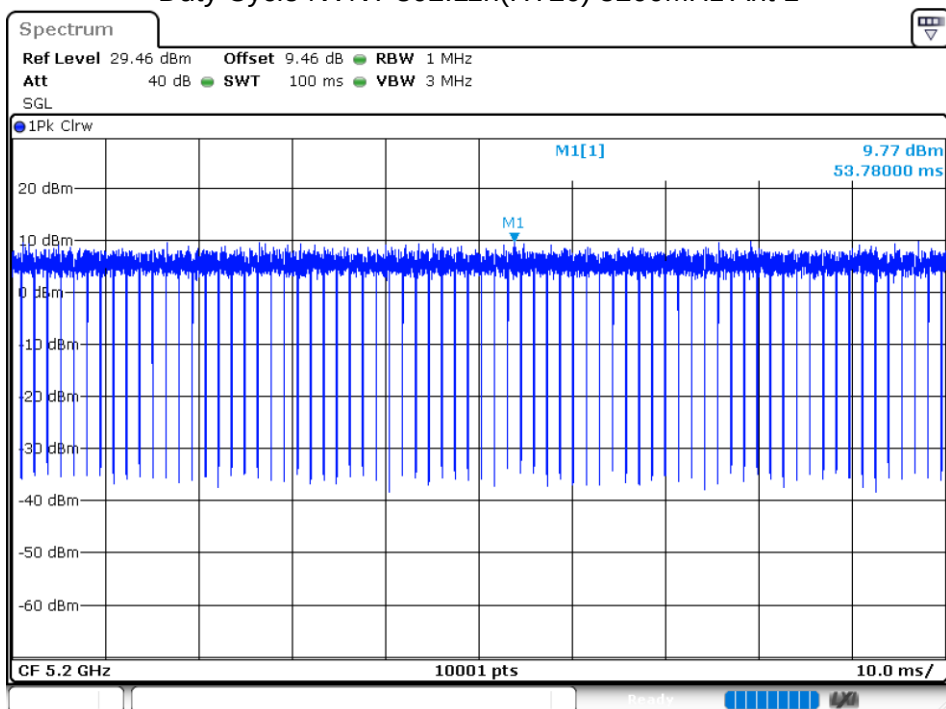
Duty Cycle NVNT 802.11n(HT20) 5180MHz Ant 1



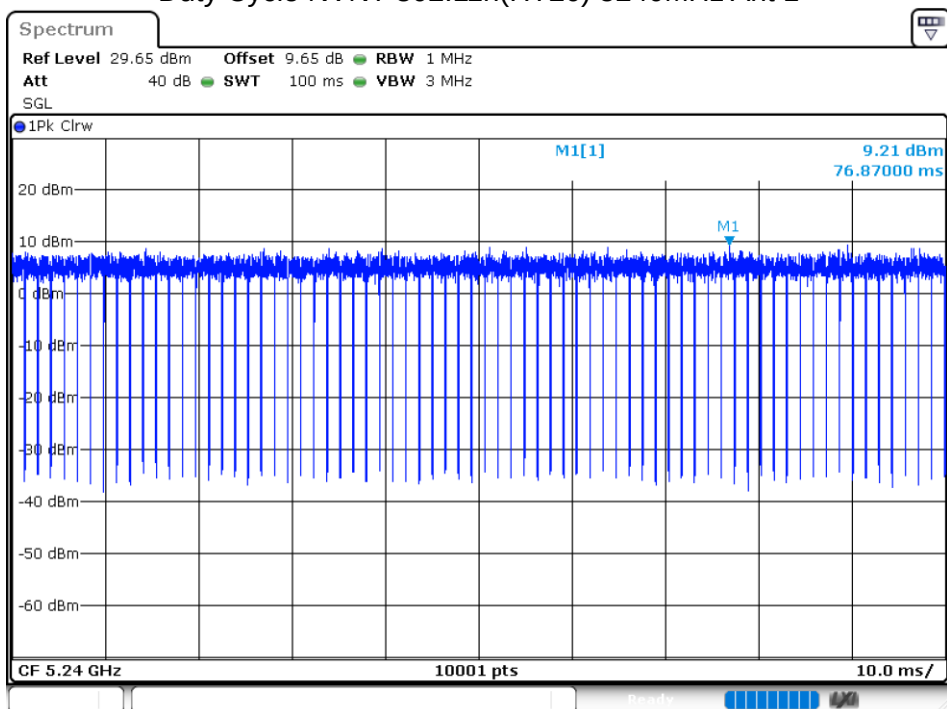
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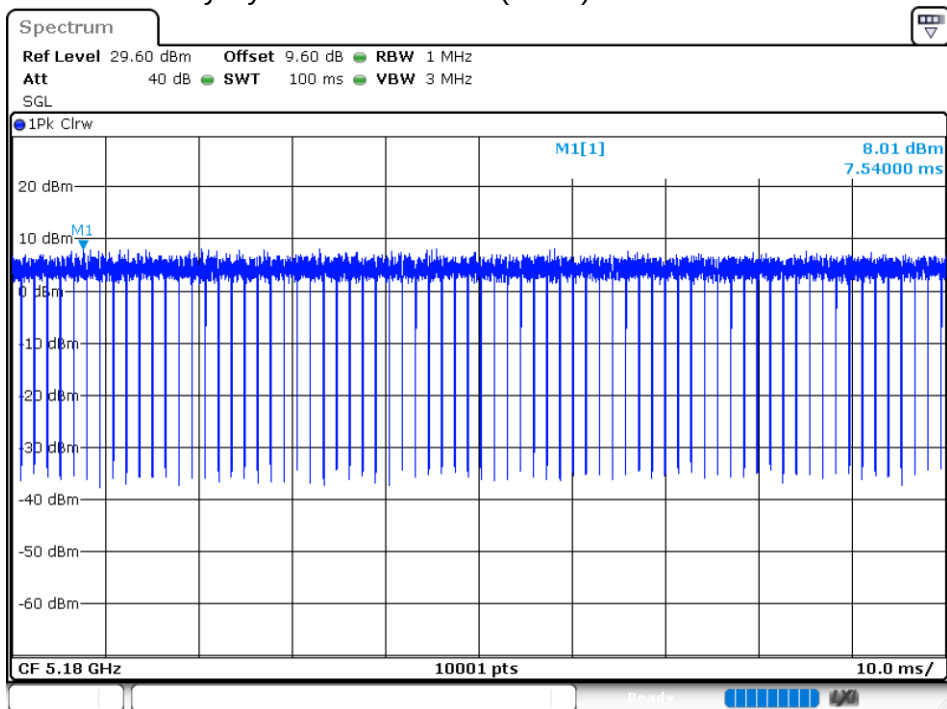
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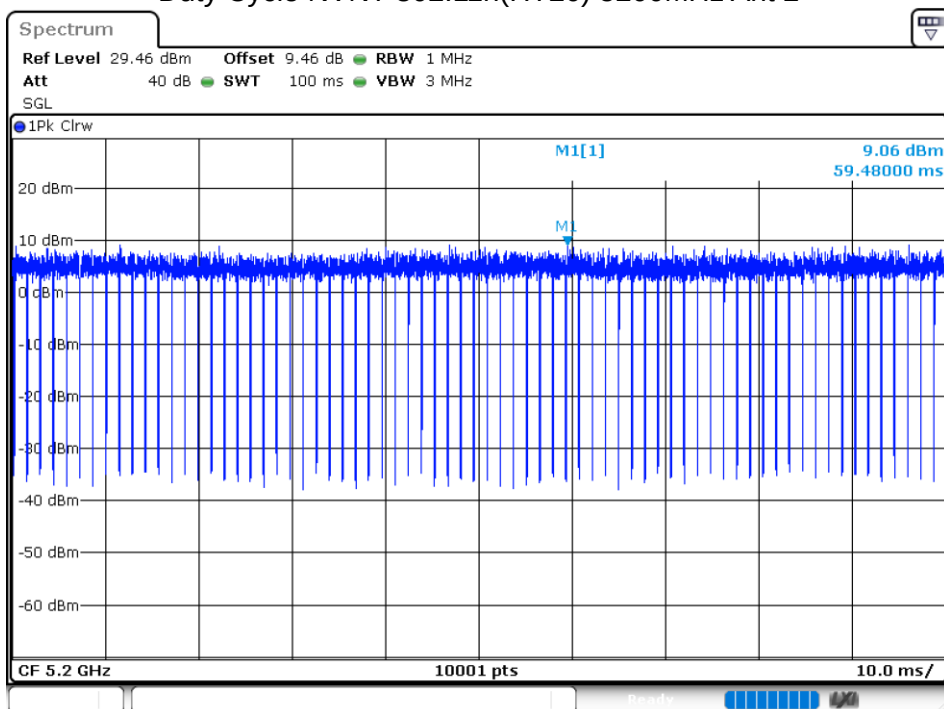
Duty Cycle NVNT 802.11n(HT20) 5240MHz Ant 1



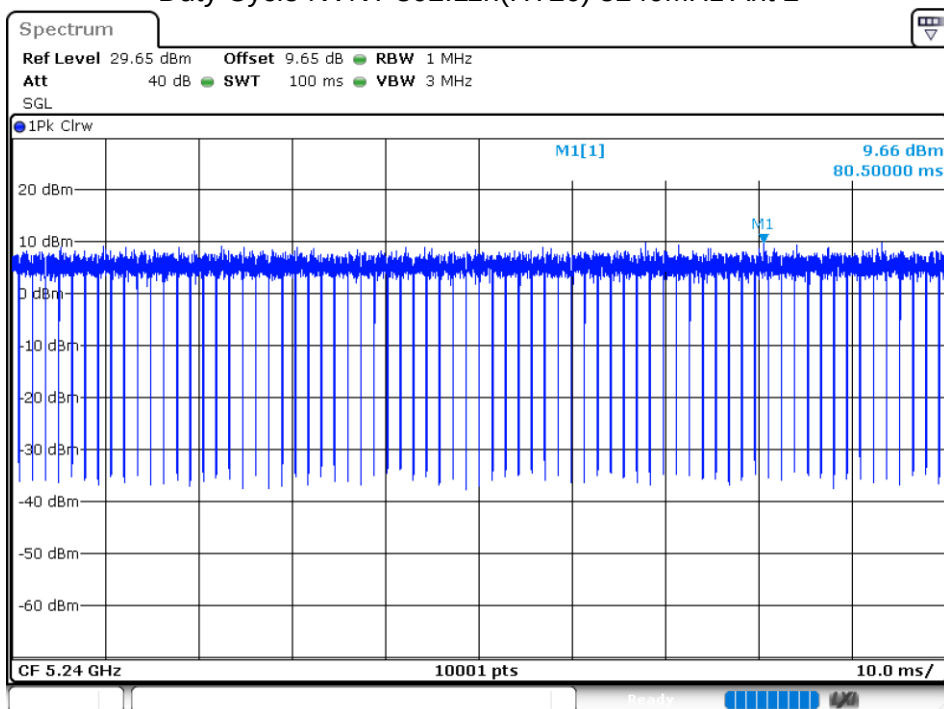
Duty Cycle NVNT 802.11n(HT20) 5180MHz Ant 2



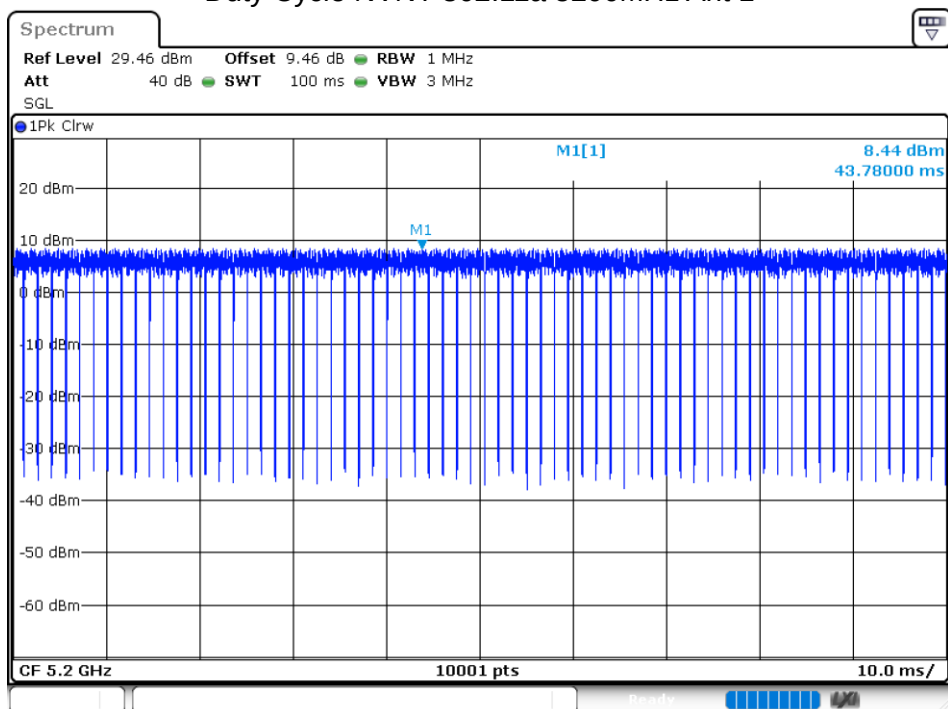
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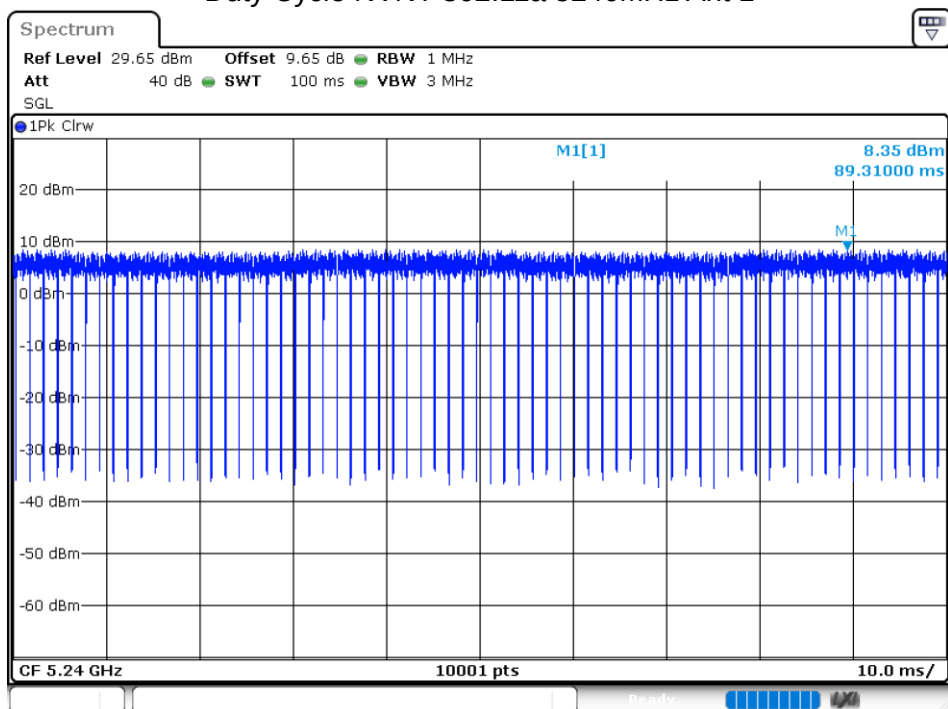
Duty Cycle NVNT 802.11n(HT20) 5240MHz Ant 2



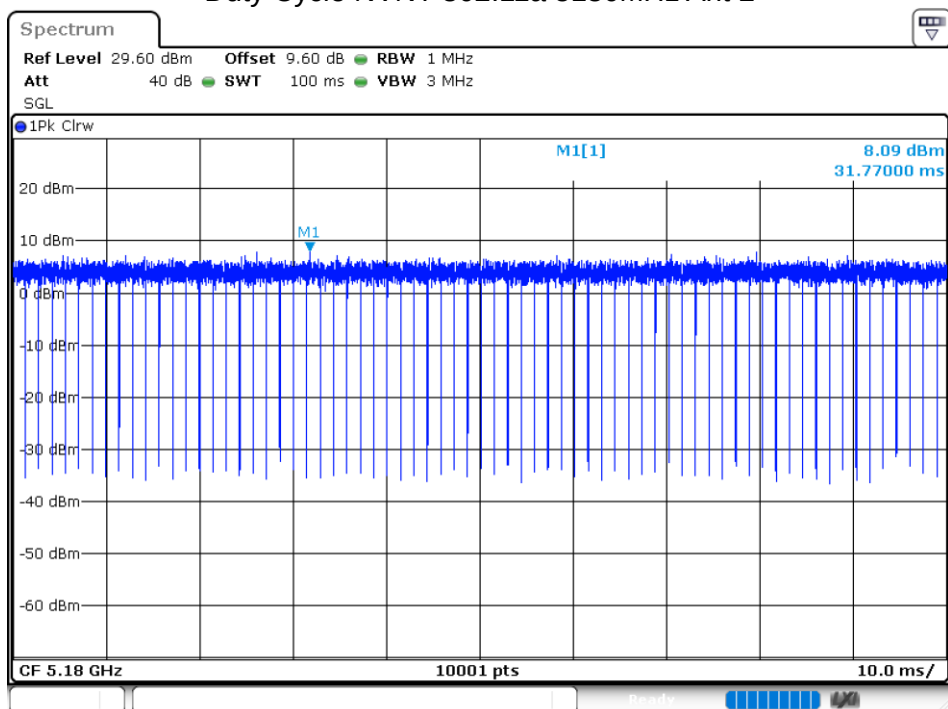
Duty Cycle NVNT 802.11a 5200MHz Ant 1



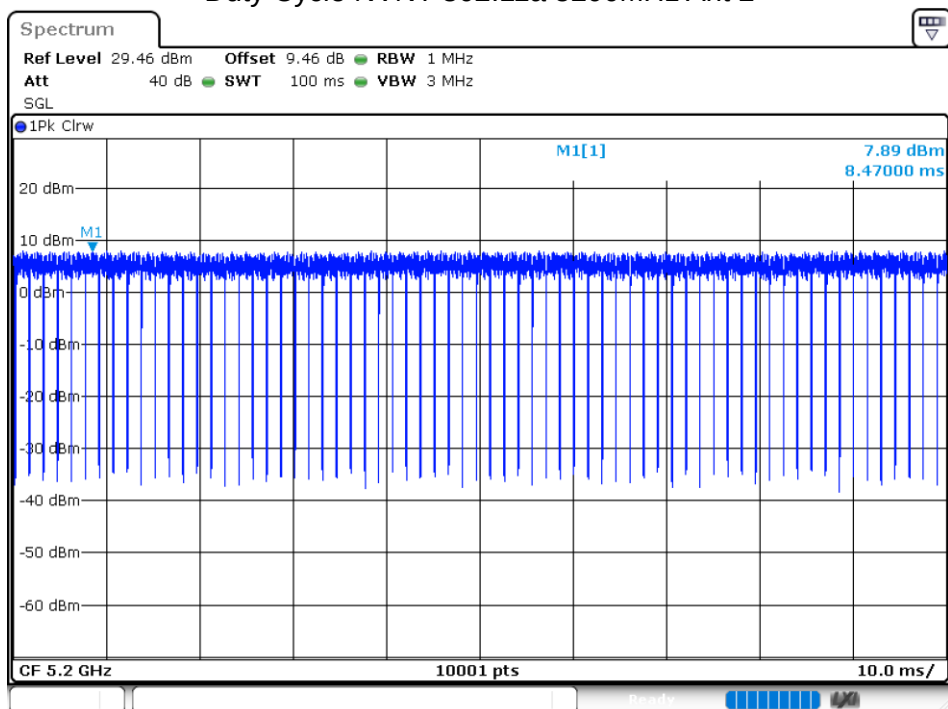
Duty Cycle NVNT 802.11a 5240MHz Ant 1



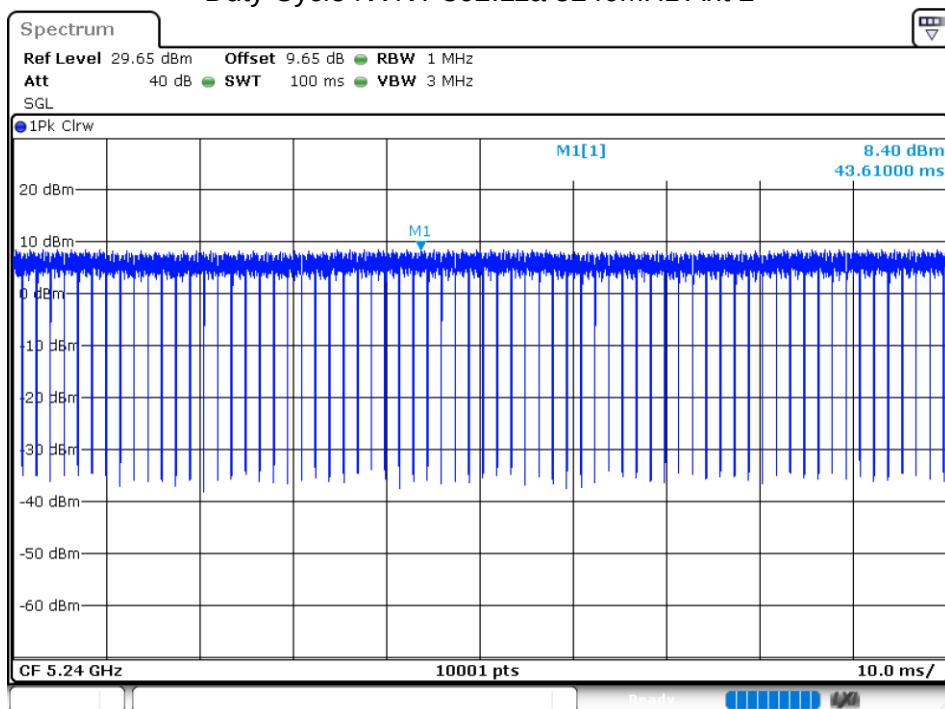
Duty Cycle NVNT 802.11a 5180MHz Ant 2



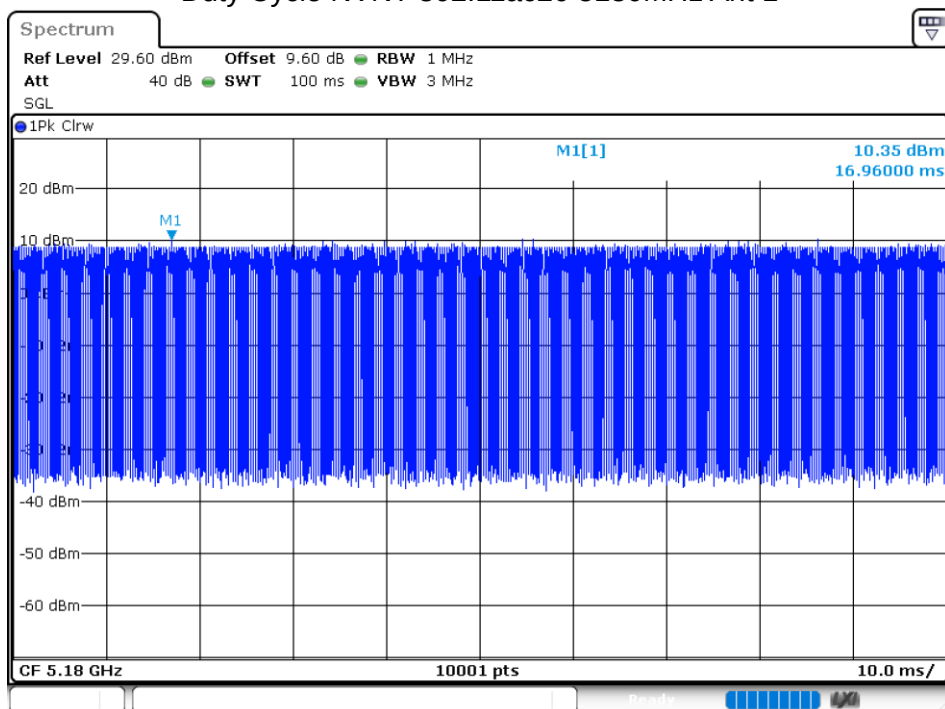
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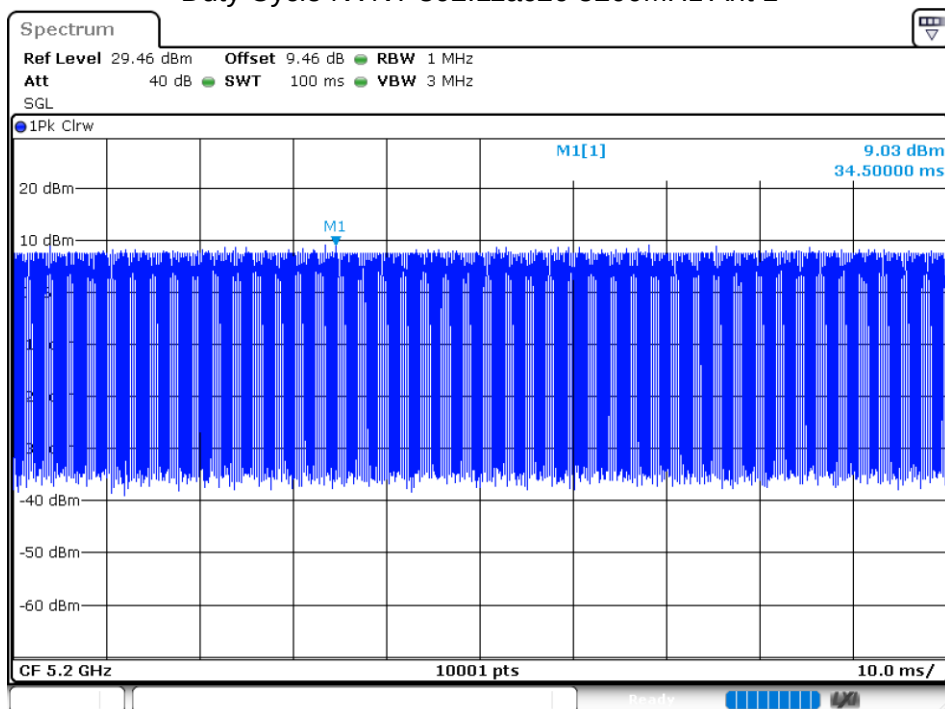
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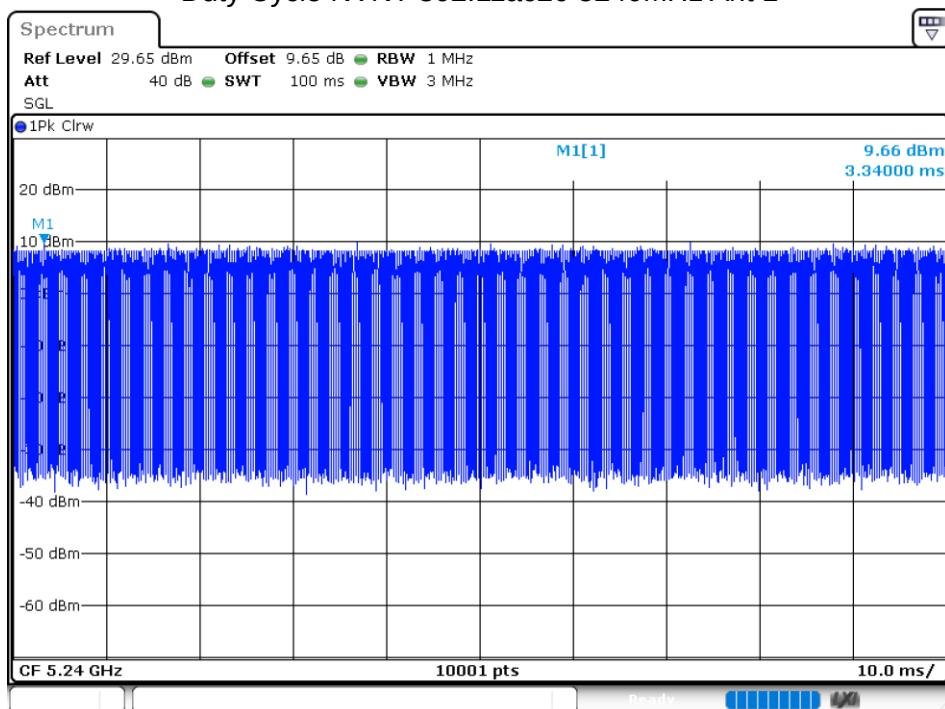
Duty Cycle NVNT 802.11ac20 5180MHz Ant 1



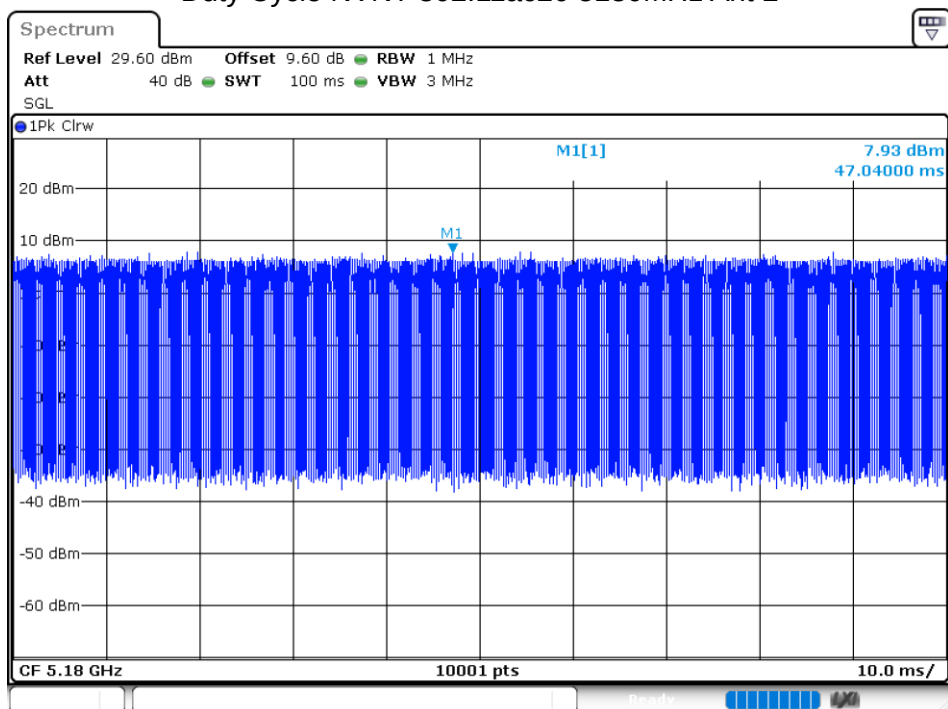
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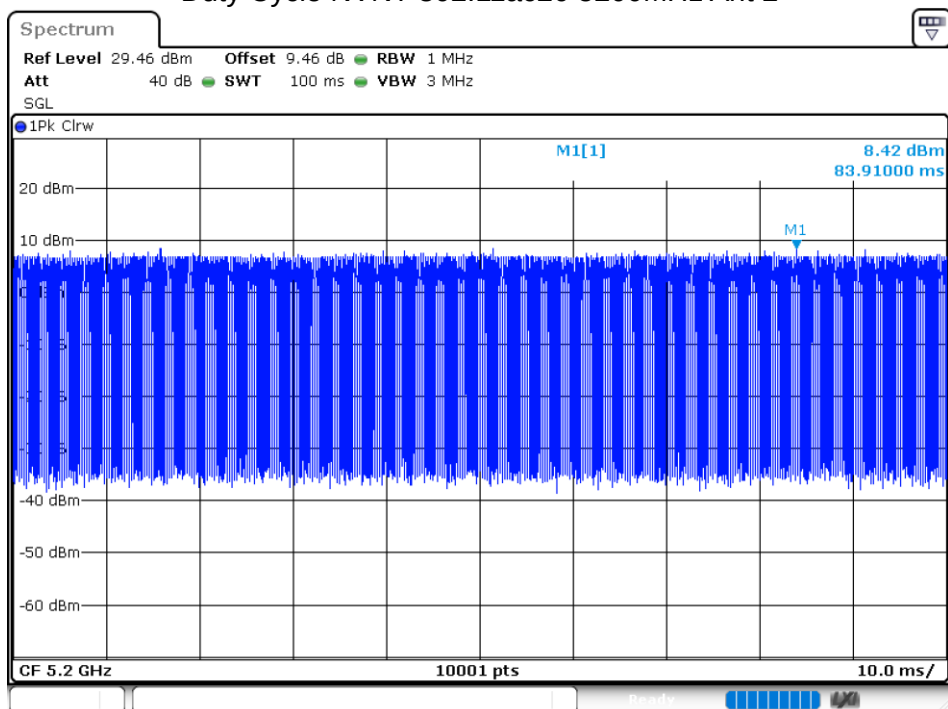
Duty Cycle NVNT 802.11ac20 5240MHz Ant 1



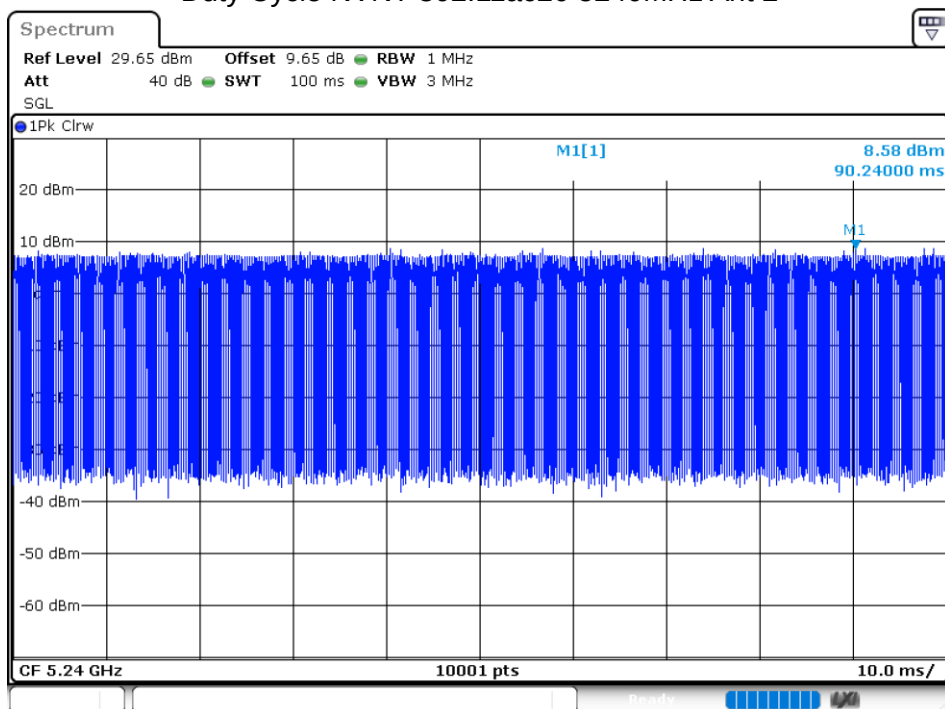
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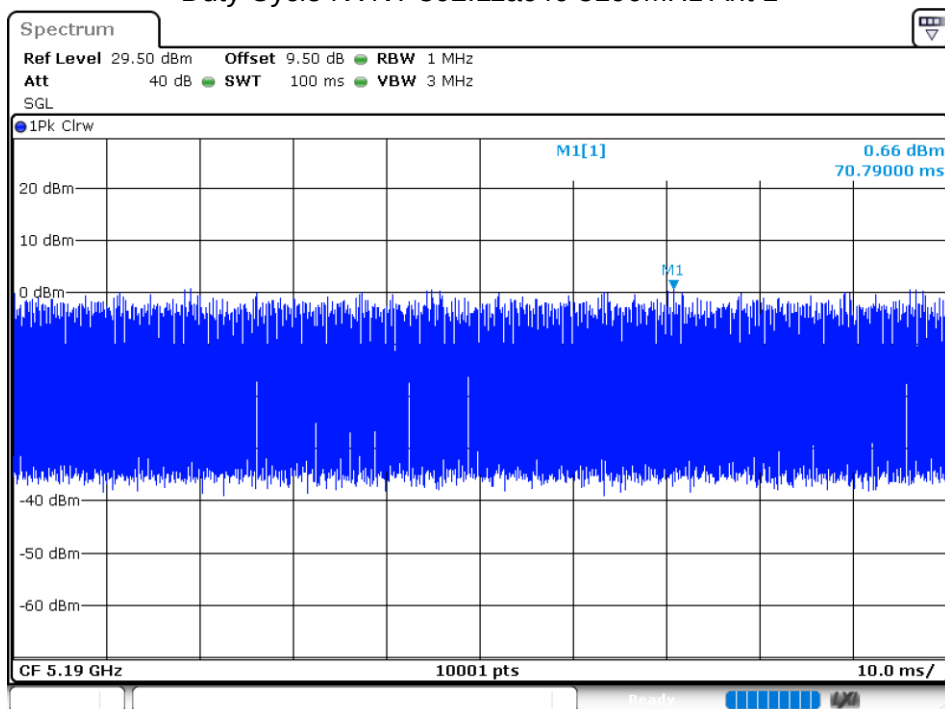
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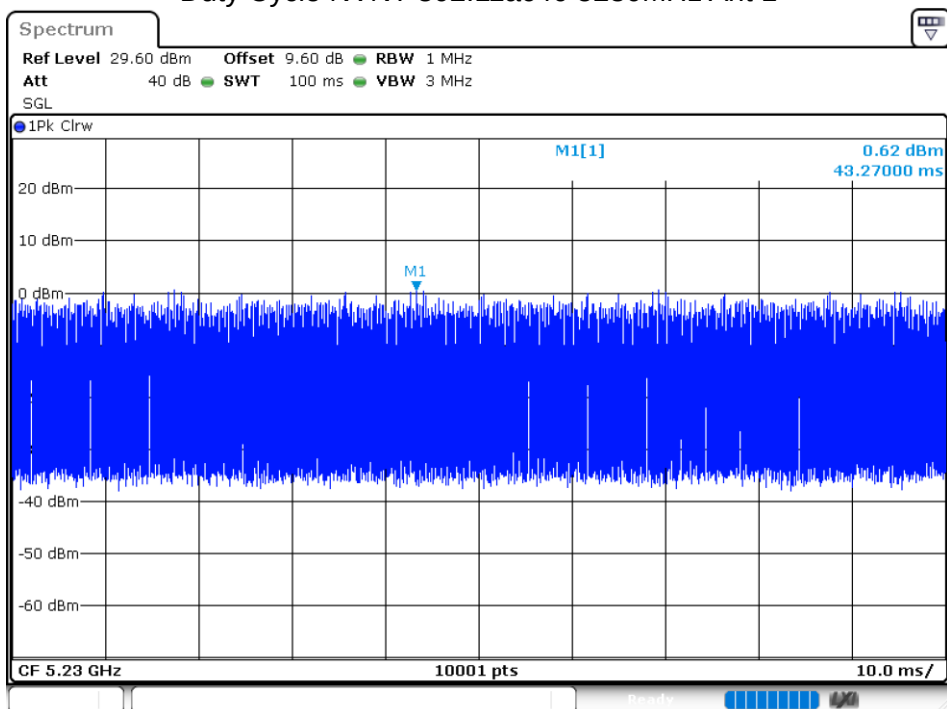
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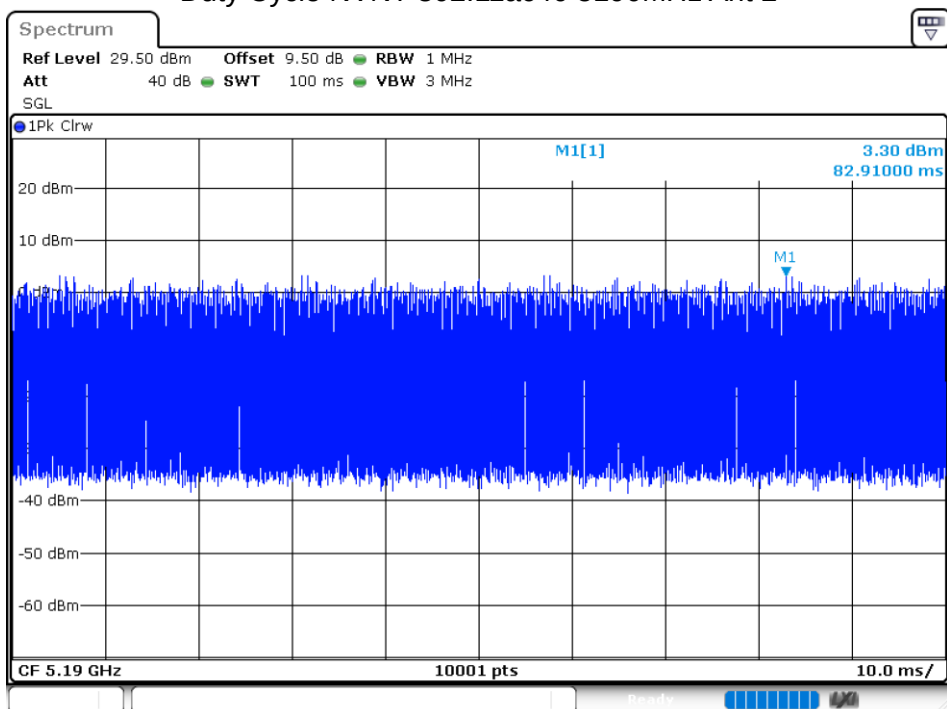
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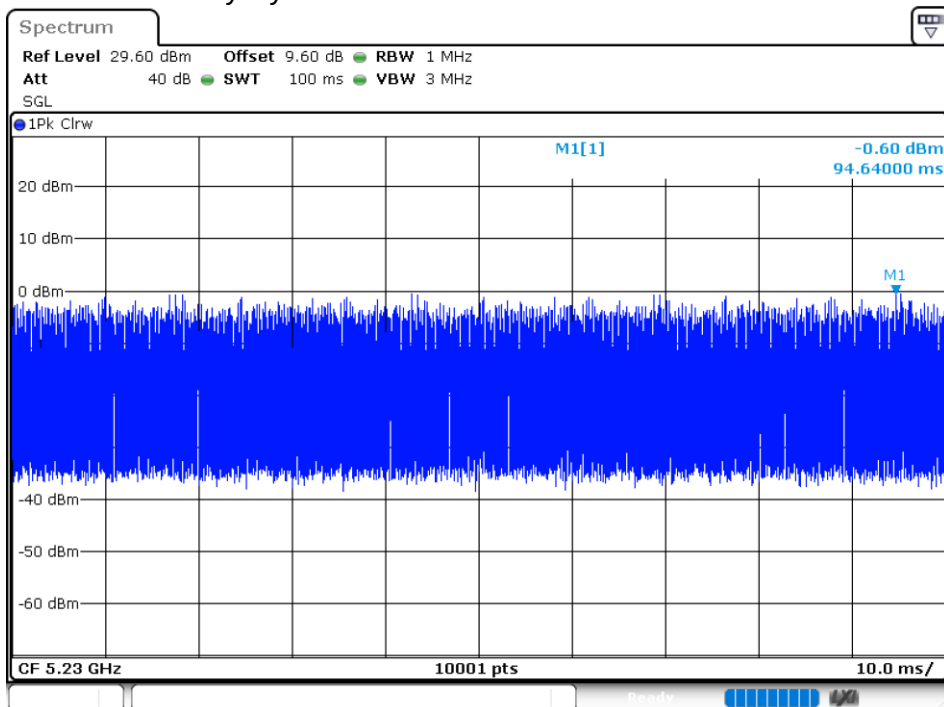
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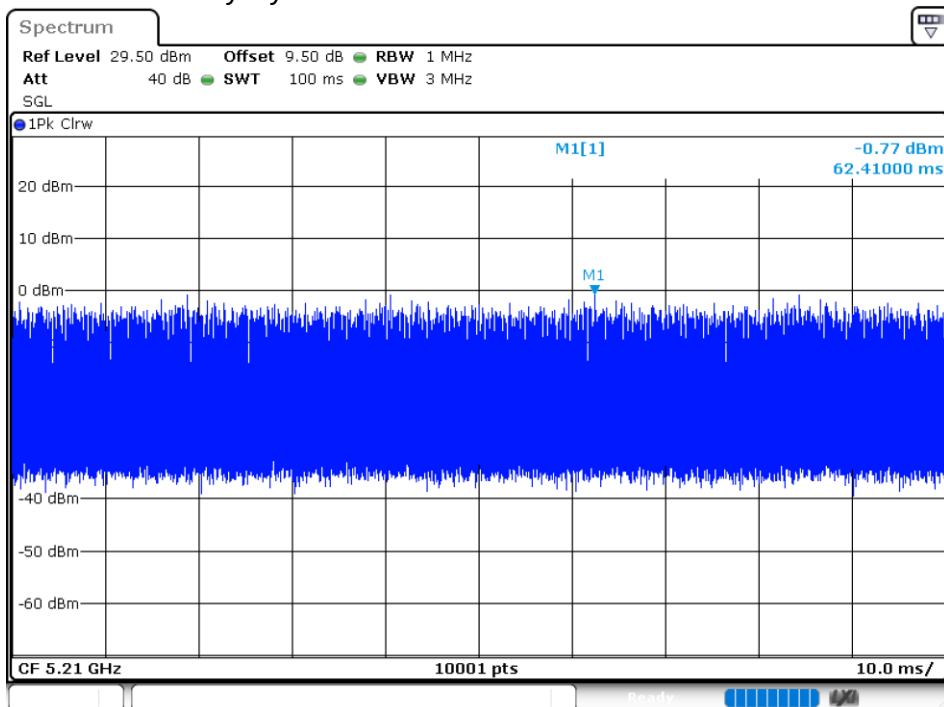
Duty Cycle NVNT 802.11ac40 5190MHz Ant 2



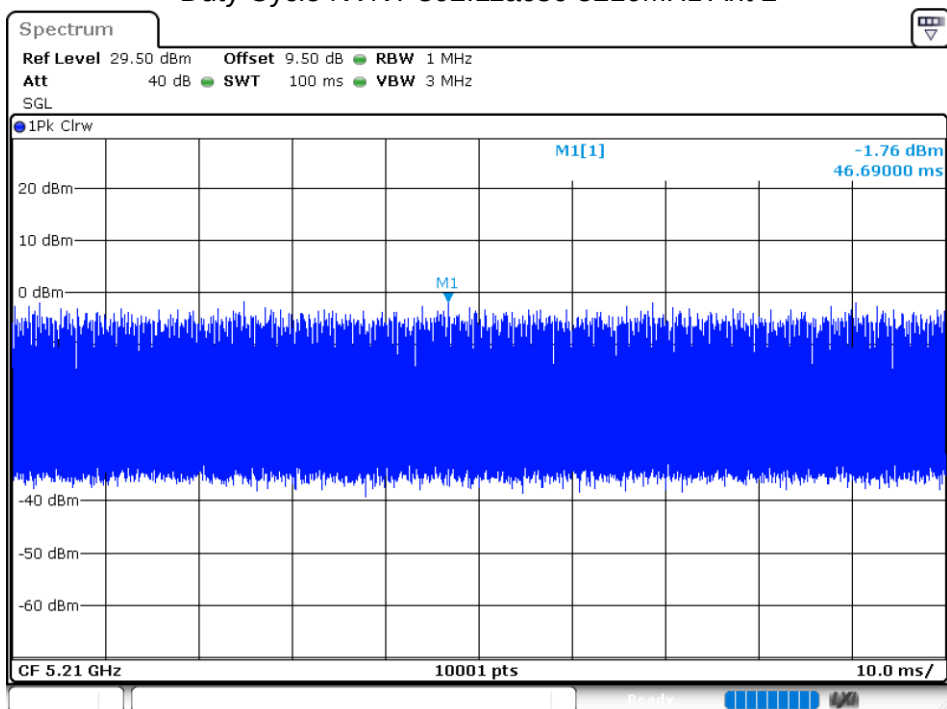
Duty Cycle NVNT 802.11ac40 5230MHz Ant 2



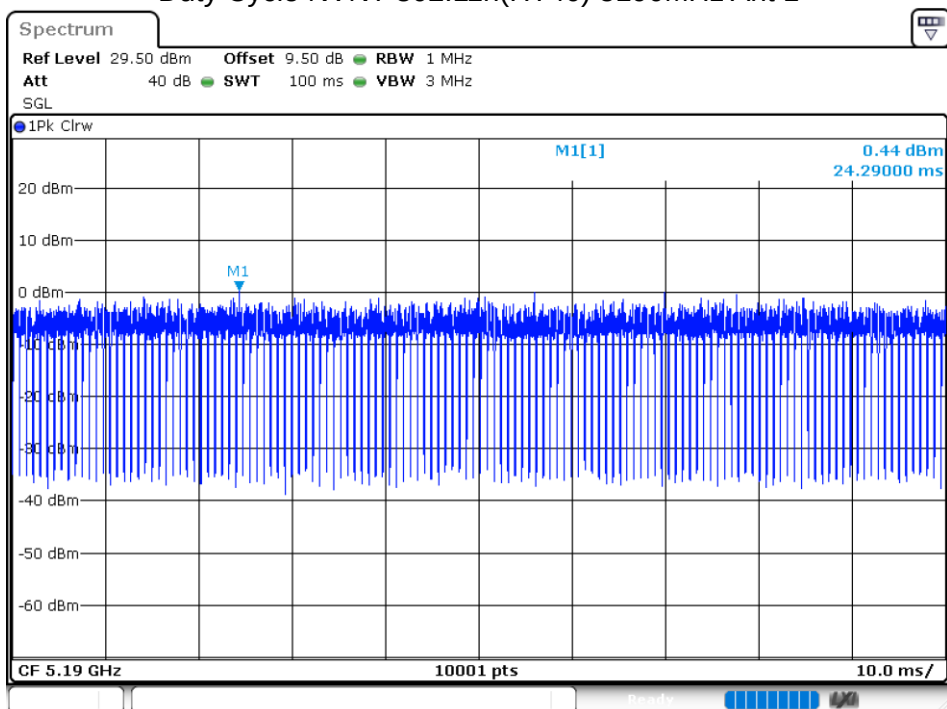
Duty Cycle NVNT 802.11ac80 5210MHz Ant 1



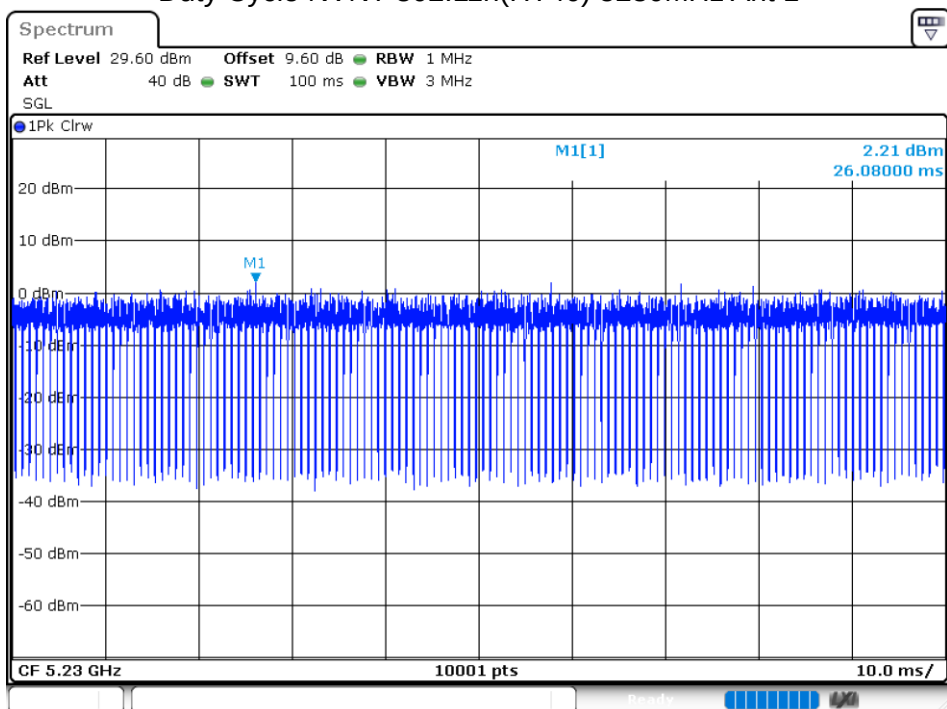
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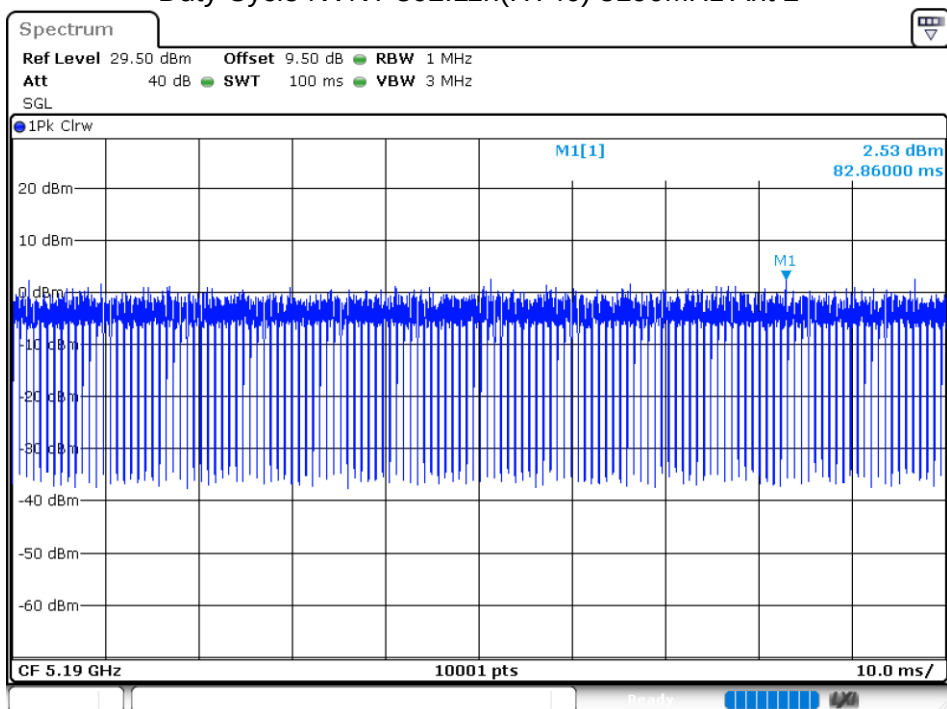
Duty Cycle NVNT 802.11n(HT40) 5190MHz Ant 1



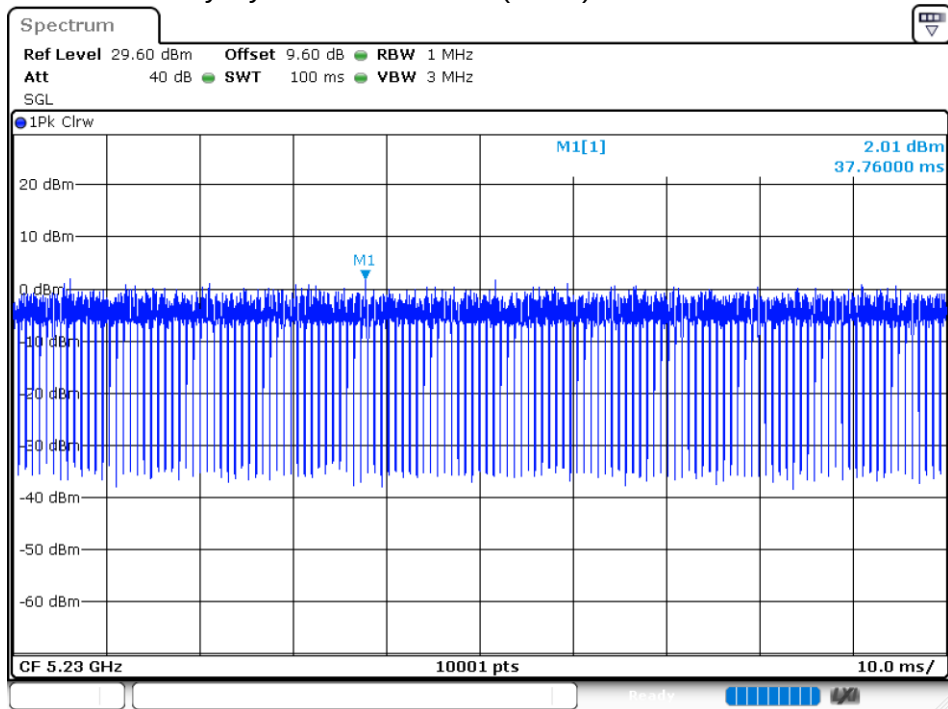
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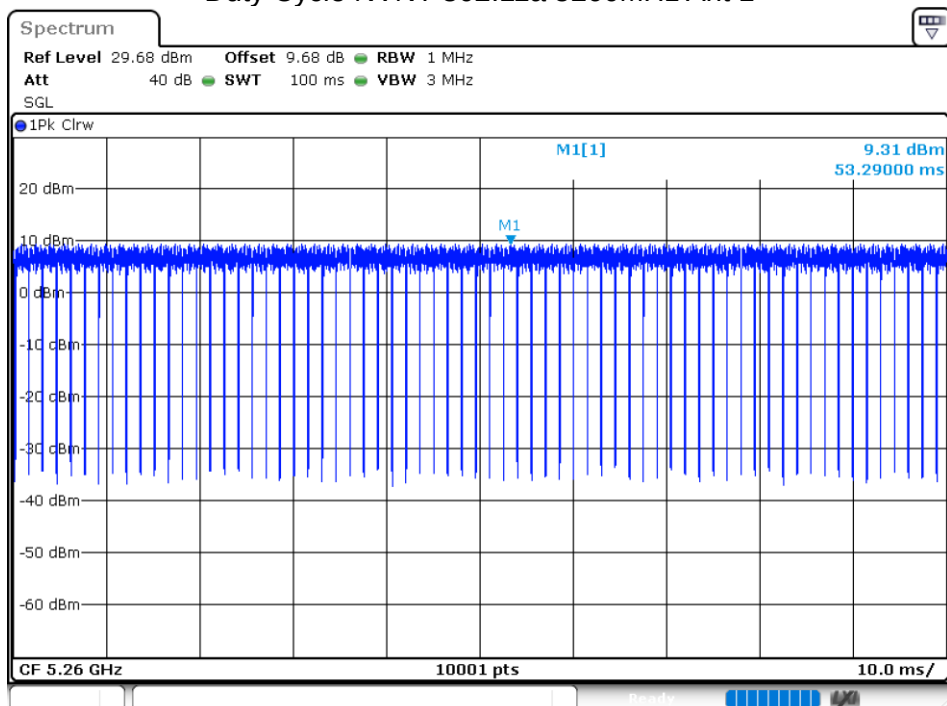
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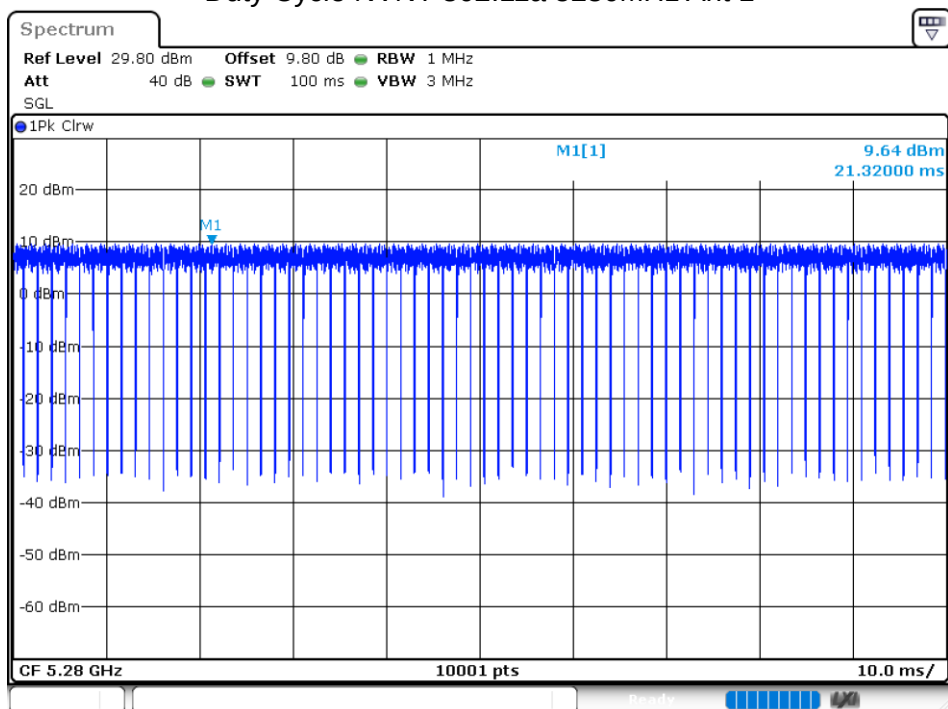
5.3G:

Antenna	Condition	Mode	Frequency (MHz)	Duty Cycle (%)
Ant 1	NVNT	802.11a	5260	100
Ant 1	NVNT	802.11a	5280	100
Ant 1	NVNT	802.11a	5320	100
Ant 2	NVNT	802.11a	5260	100
Ant 2	NVNT	802.11a	5280	100
Ant 2	NVNT	802.11a	5320	100
Ant 1	NVNT	802.11ac20	5260	100
Ant 1	NVNT	802.11ac20	5280	100
Ant 1	NVNT	802.11ac20	5320	100
Ant 2	NVNT	802.11ac20	5260	100
Ant 2	NVNT	802.11ac20	5280	100
Ant 2	NVNT	802.11ac20	5320	100
Ant 1	NVNT	802.11ac40	5270	100
Ant 1	NVNT	802.11ac40	5310	100
Ant 2	NVNT	802.11ac40	5270	100
Ant 2	NVNT	802.11ac40	5310	100
Ant 1	NVNT	802.11ac80	5290	100
Ant 2	NVNT	802.11ac80	5290	100
Ant 1	NVNT	802.11n(HT20)	5260	100
Ant 1	NVNT	802.11n(HT20)	5280	100
Ant 1	NVNT	802.11n(HT20)	5320	100
Ant 2	NVNT	802.11n(HT20)	5260	100
Ant 2	NVNT	802.11n(HT20)	5280	100
Ant 2	NVNT	802.11n(HT20)	5320	100
Ant 1	NVNT	802.11n(HT40)	5270	100
Ant 1	NVNT	802.11n(HT40)	5310	100
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Ant 2	NVNT	802.11n(HT40)	5310	100

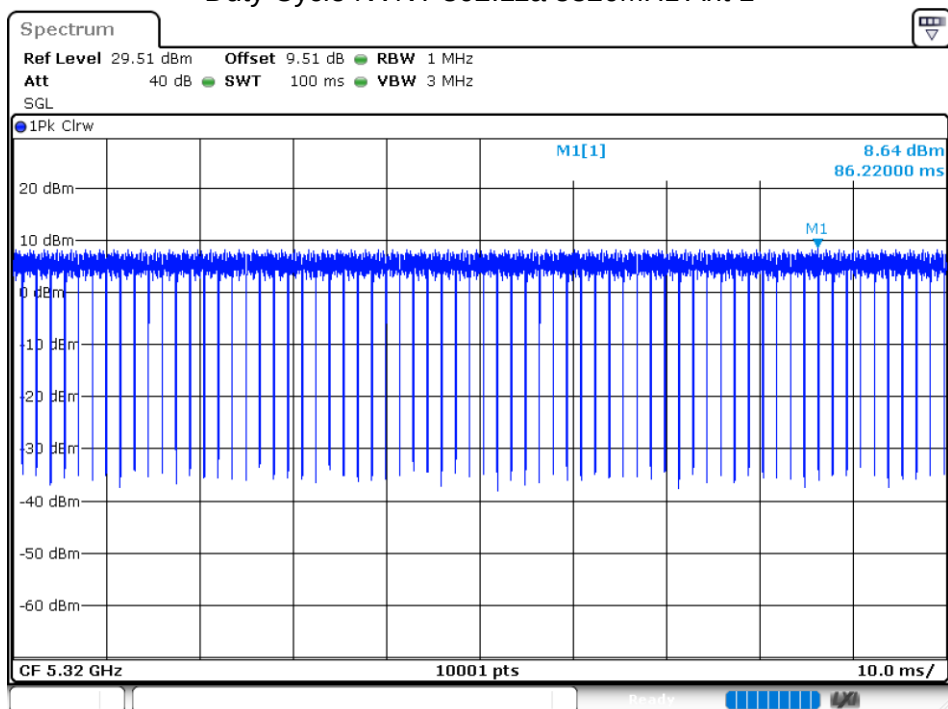
Duty Cycle NVNT 802.11a 5260MHz Ant 1



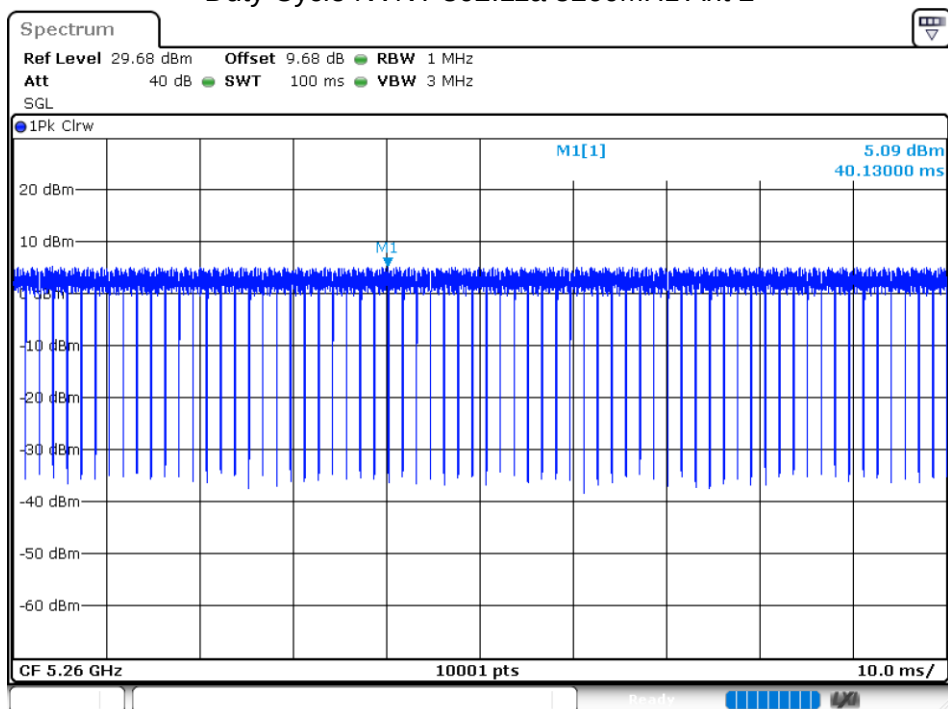
Duty Cycle NVNT 802.11a 5280MHz Ant 1



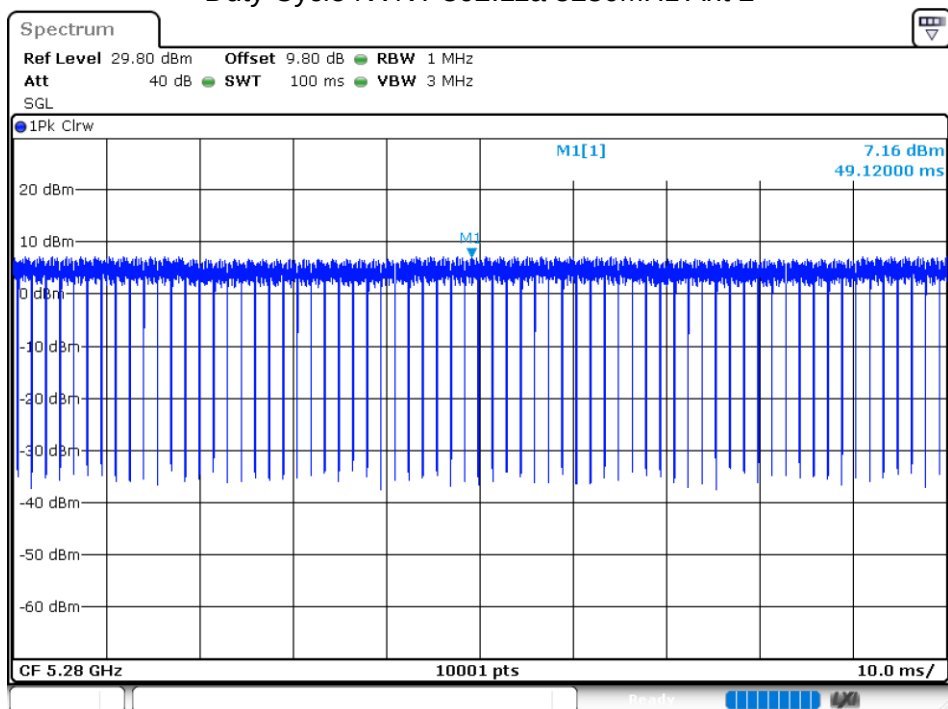
Duty Cycle NVNT 802.11a 5320MHz Ant 1



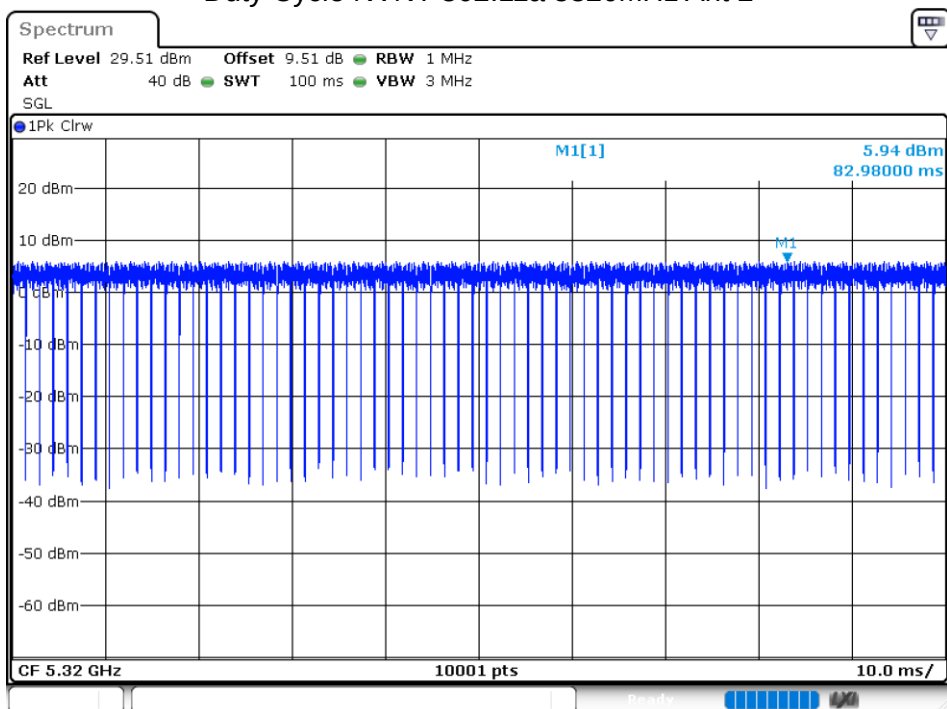
Duty Cycle NVNT 802.11a 5260MHz Ant 2



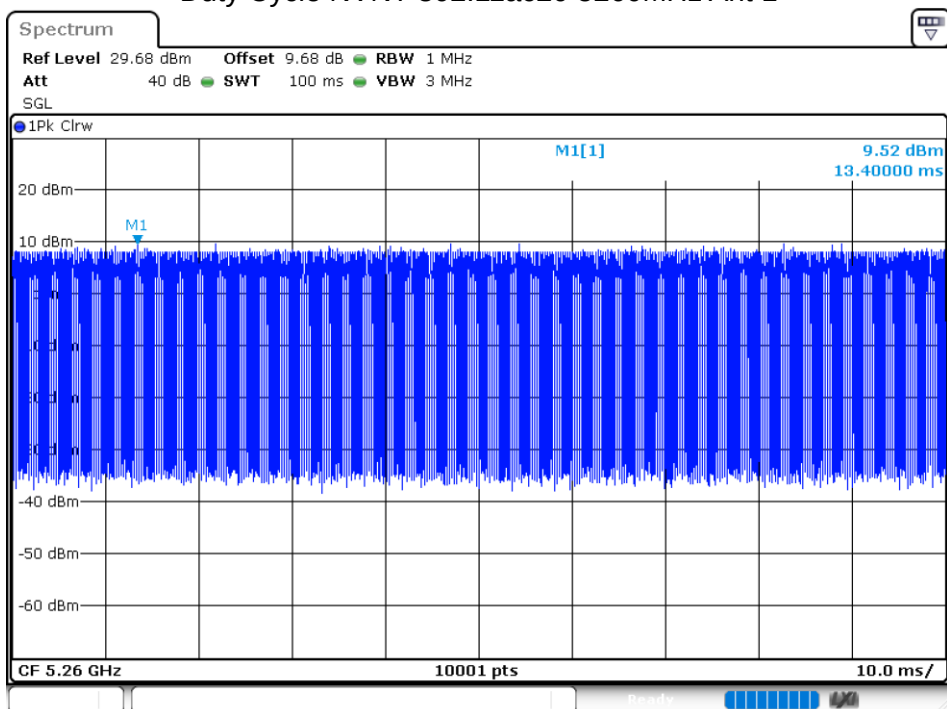
Duty Cycle NVNT 802.11a 5280MHz Ant 2



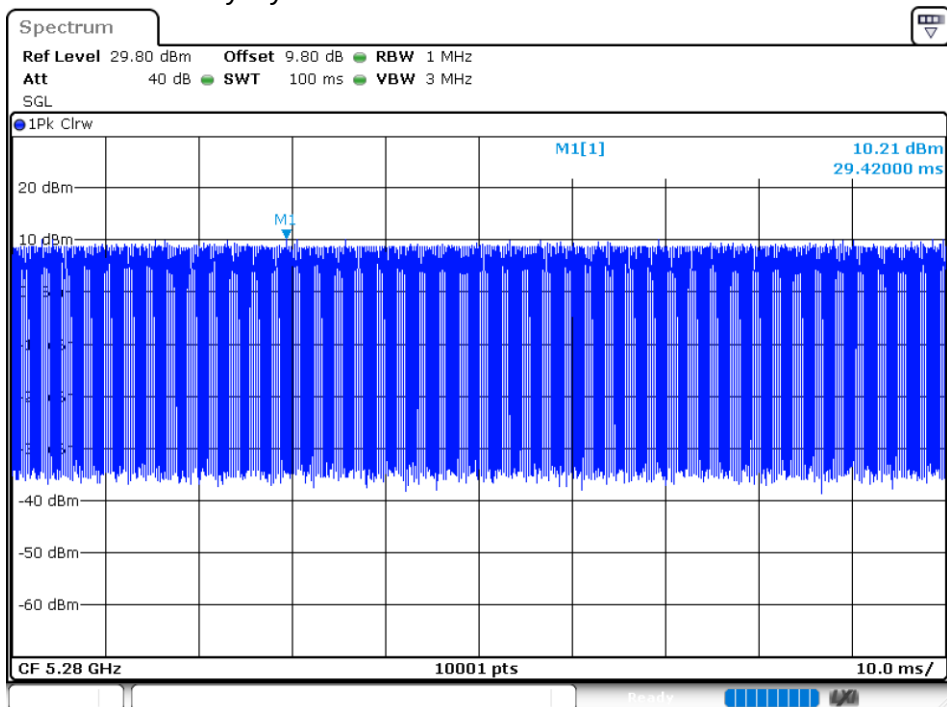
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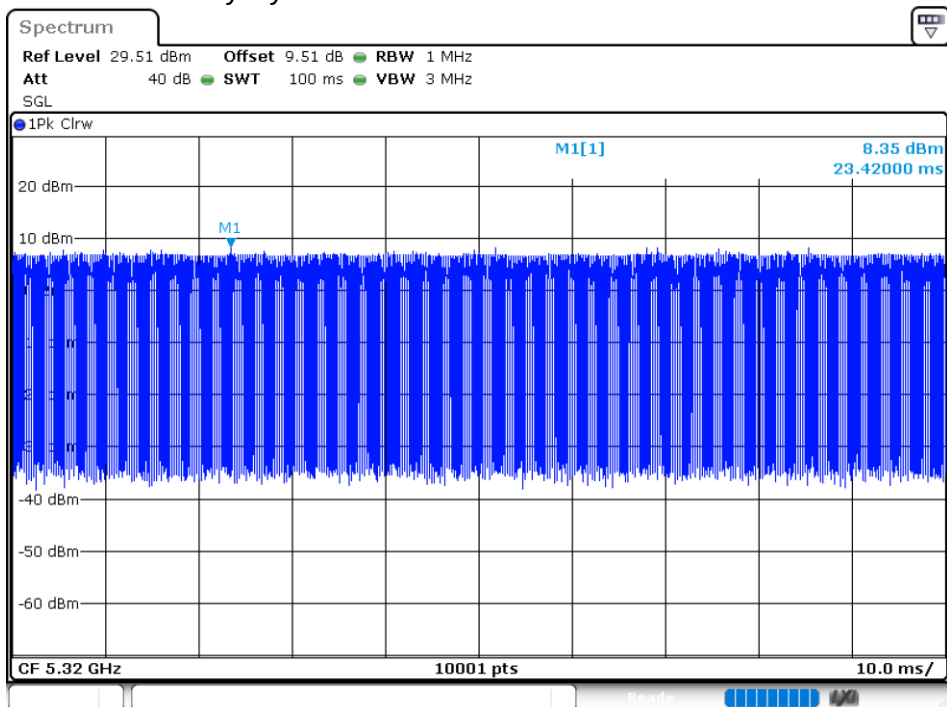
Duty Cycle NVNT 802.11ac20 5260MHz Ant 1



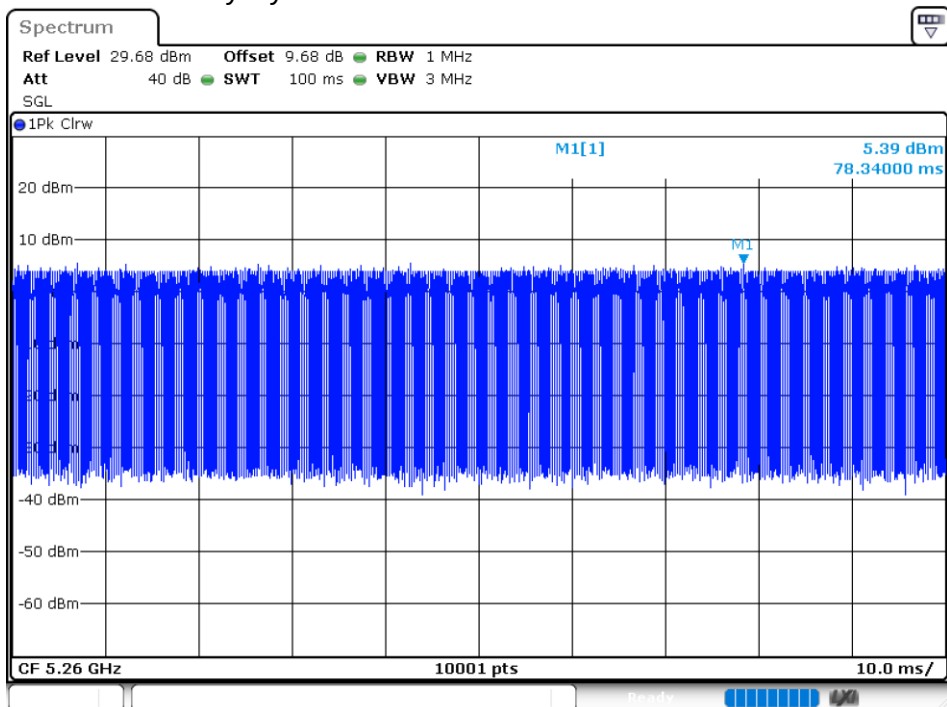
Duty Cycle NVNT 802.11ac20 5280MHz Ant 1



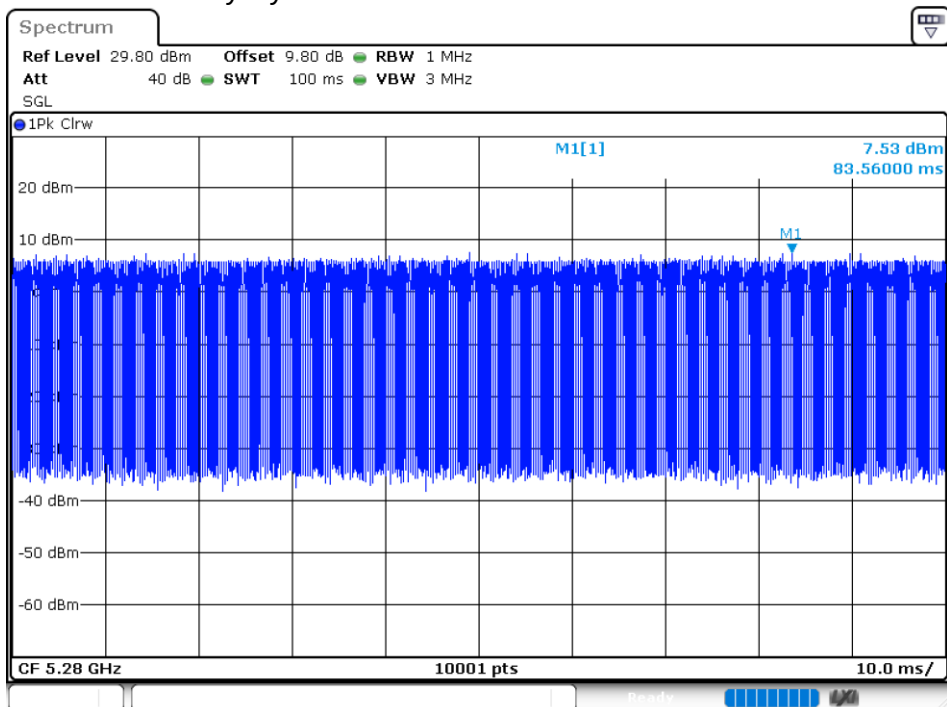
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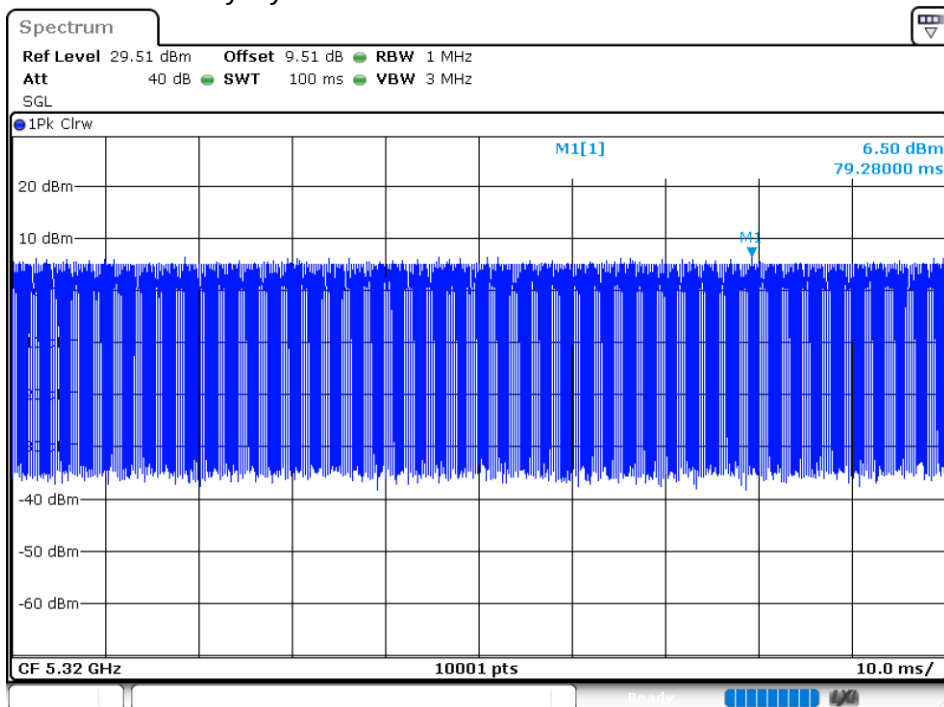
Duty Cycle NVNT 802.11ac20 5260MHz Ant 2



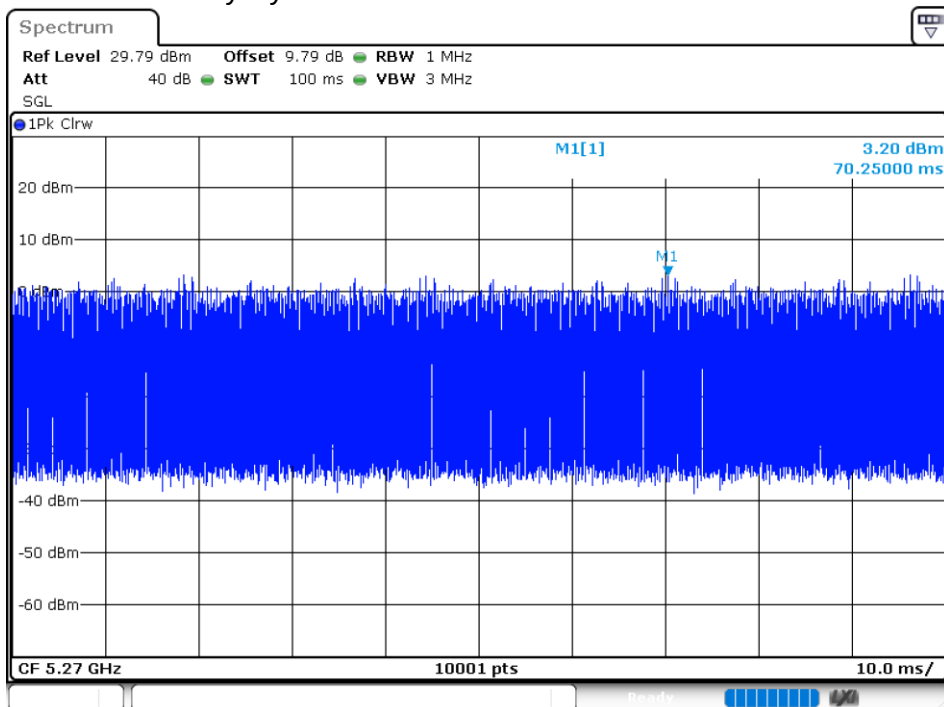
Duty Cycle NVNT 802.11ac20 5280MHz Ant 2



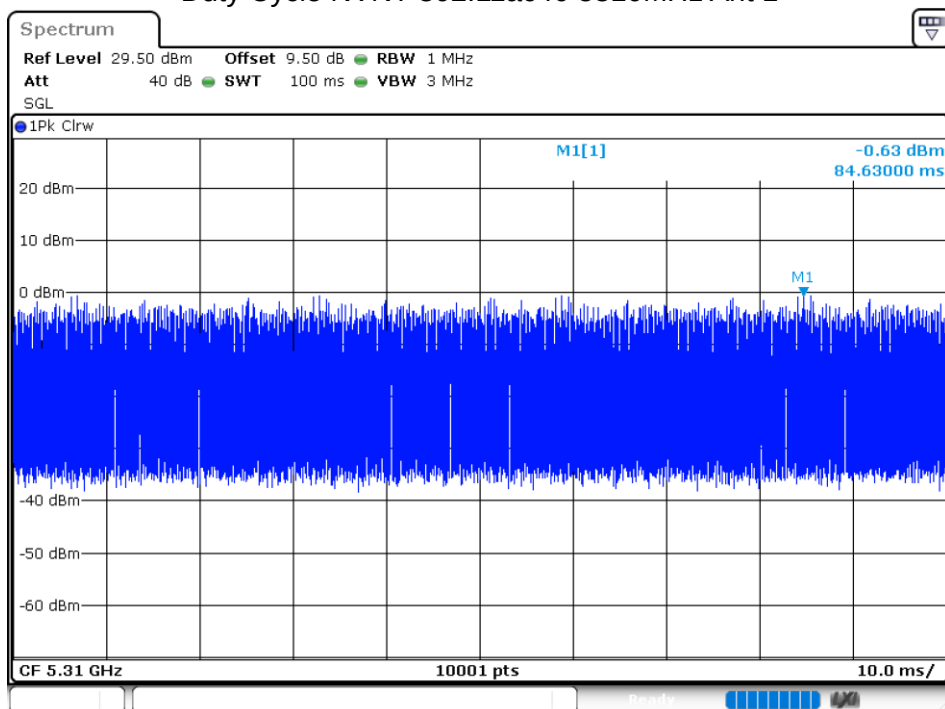
Duty Cycle NVNT 802.11ac20 5320MHz Ant 2



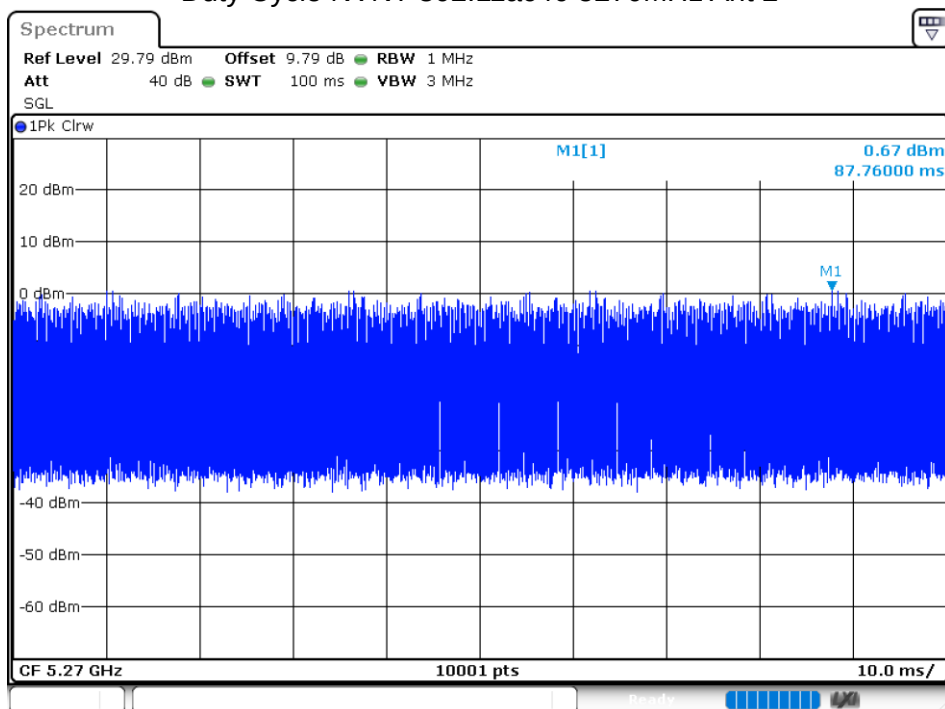
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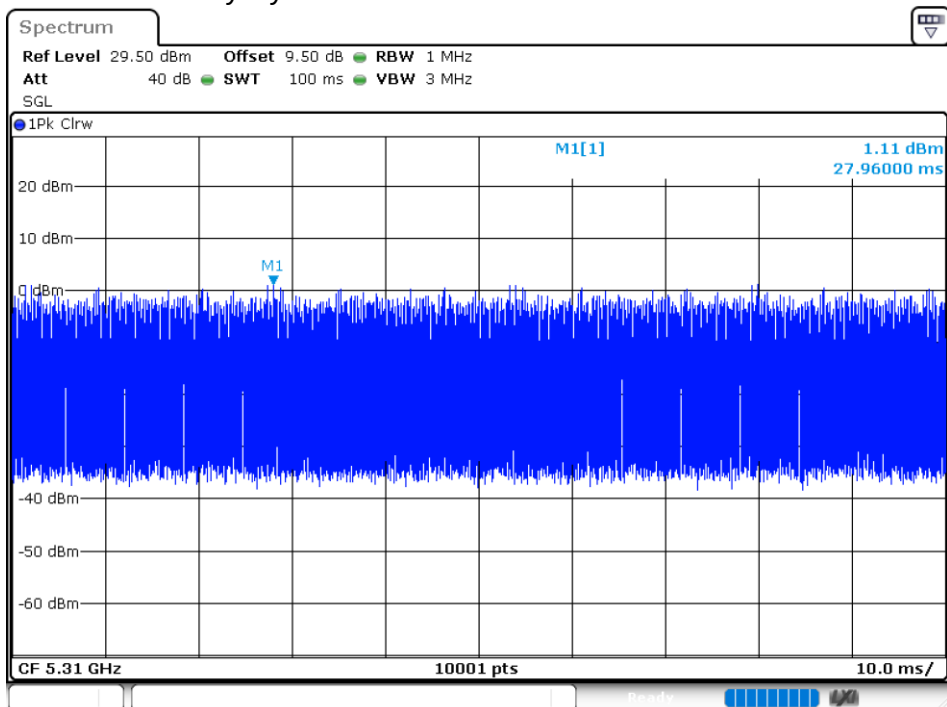
Duty Cycle NVNT 802.11ac40 5310MHz Ant 1



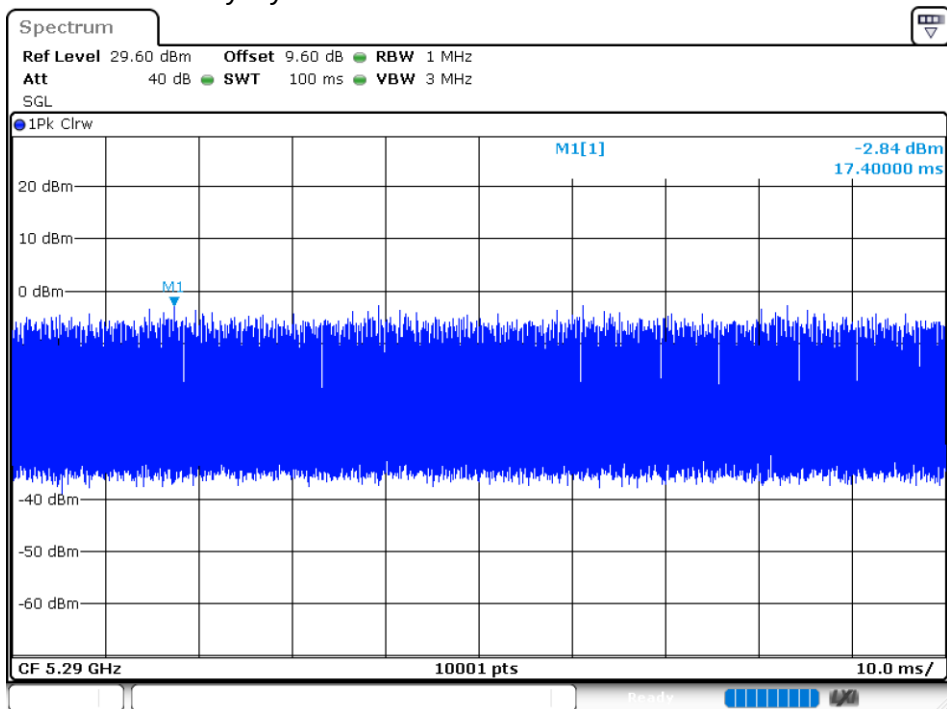
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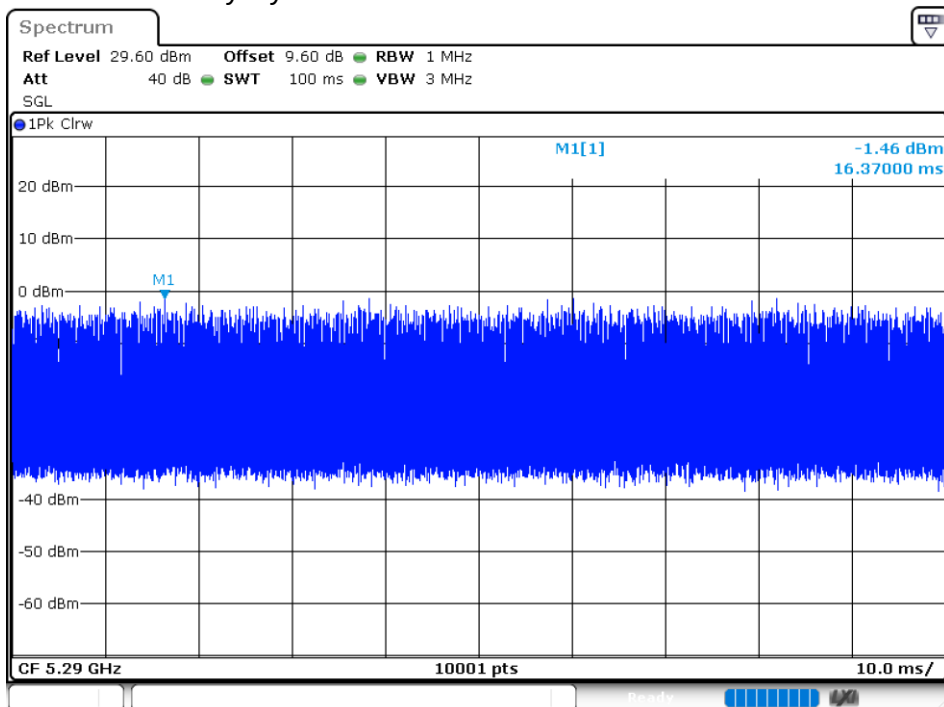
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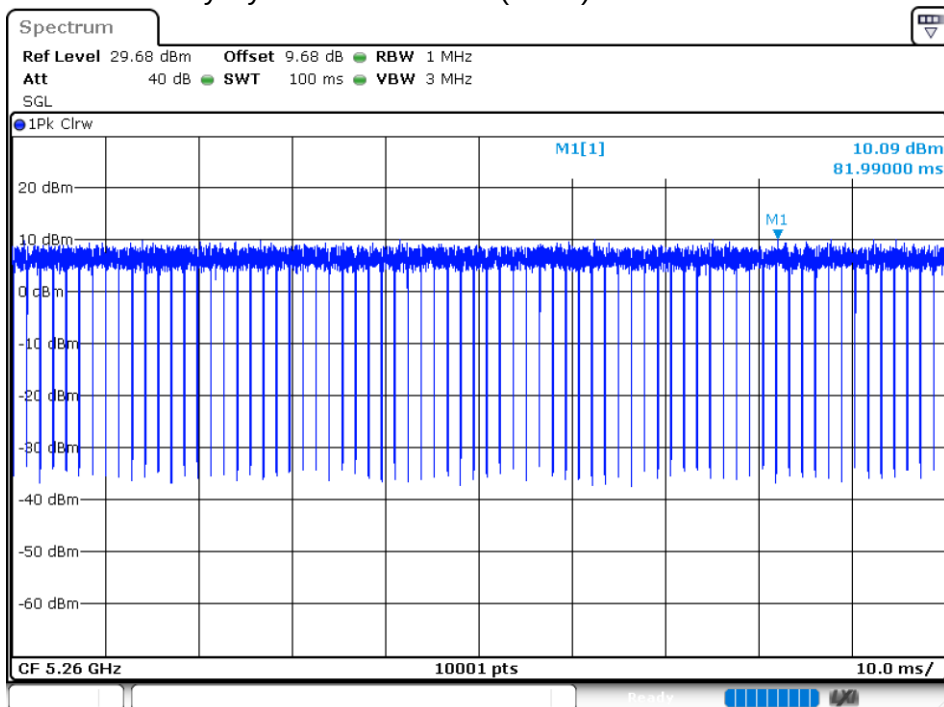
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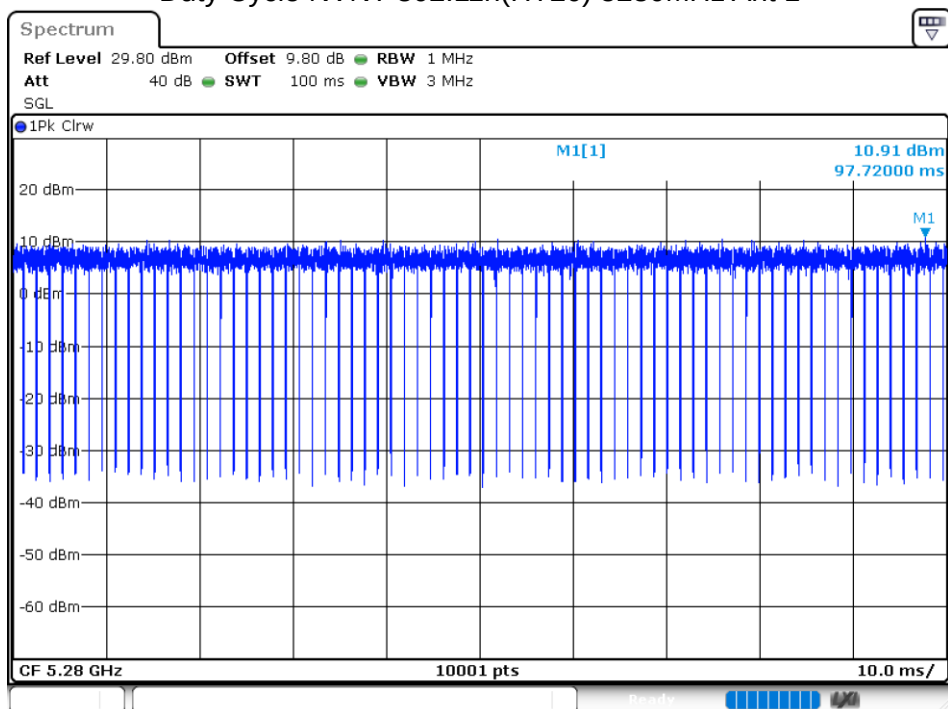
Duty Cycle NVNT 802.11ac80 5290MHz Ant 2



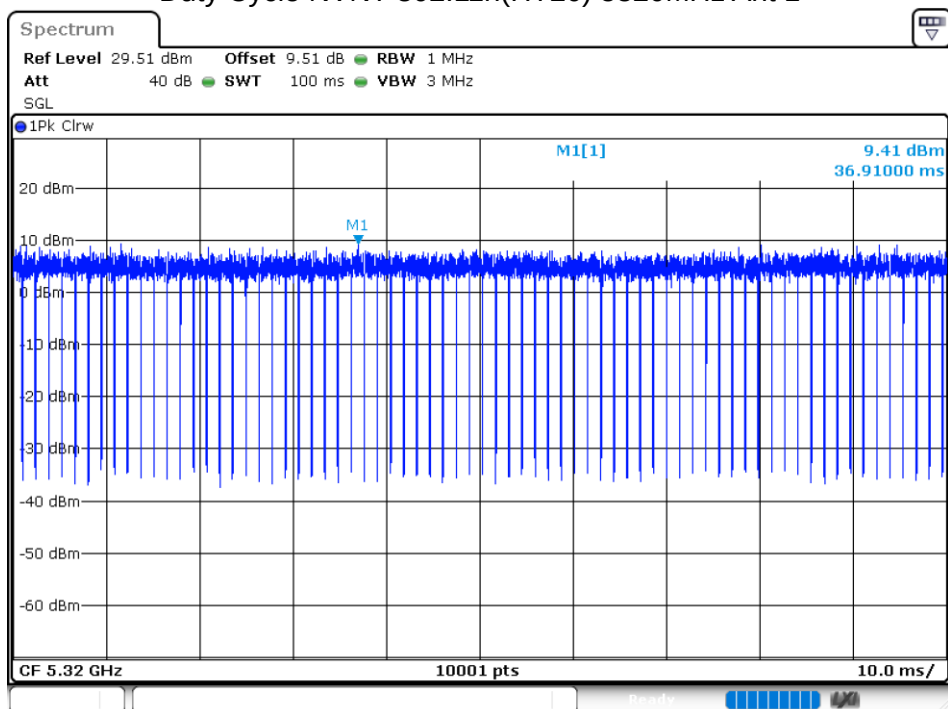
Duty Cycle NVNT 802.11n(HT20) 5260MHz Ant 1



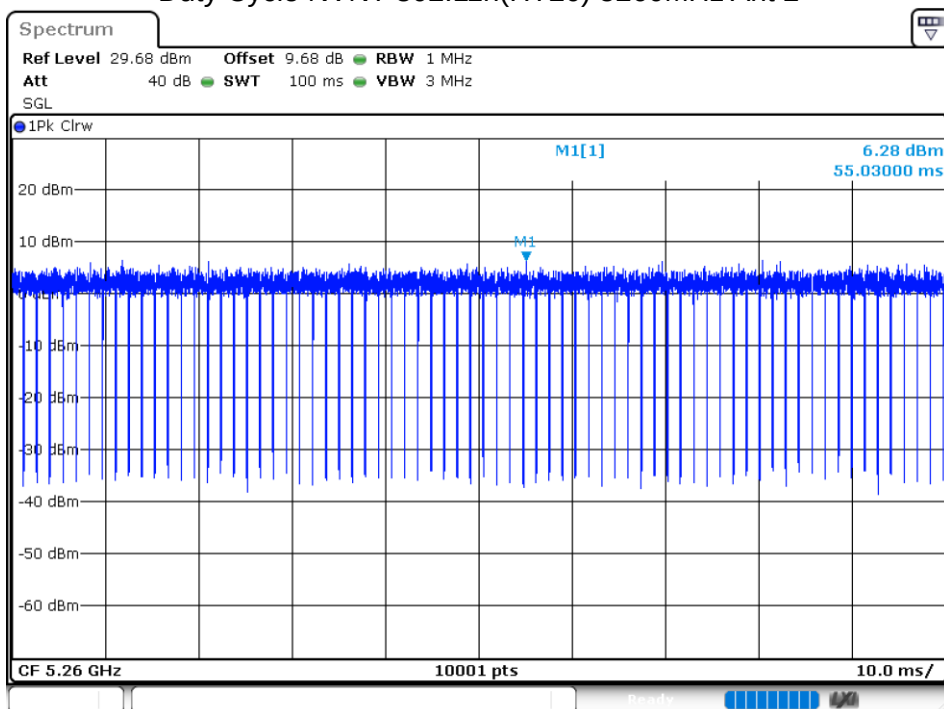
Duty Cycle NVNT 802.11n(HT20) 5280MHz Ant 1



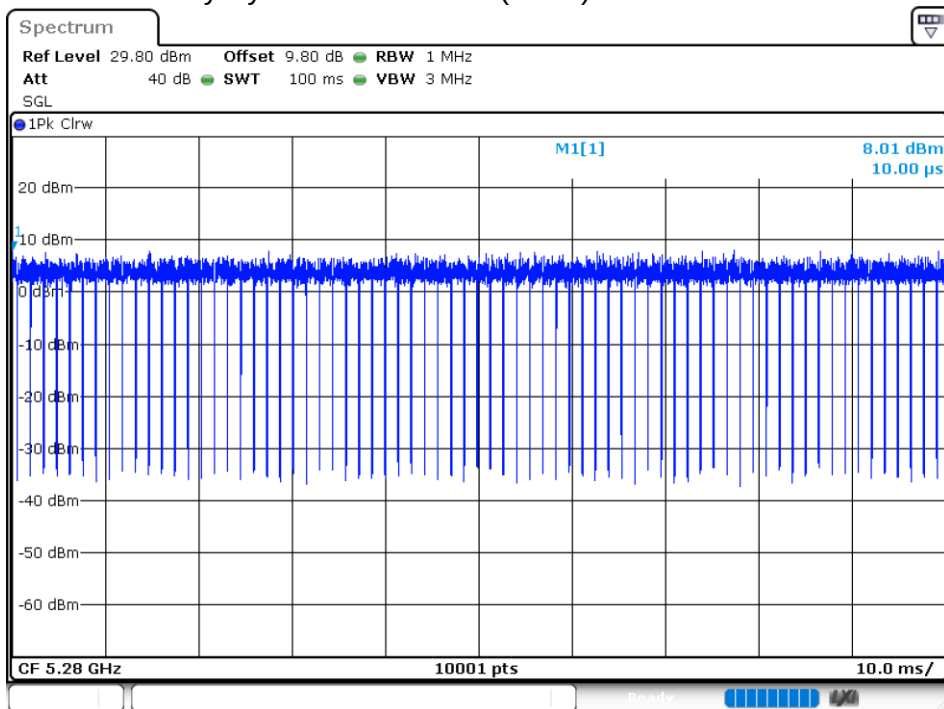
Duty Cycle NVNT 802.11n(HT20) 5320MHz Ant 1



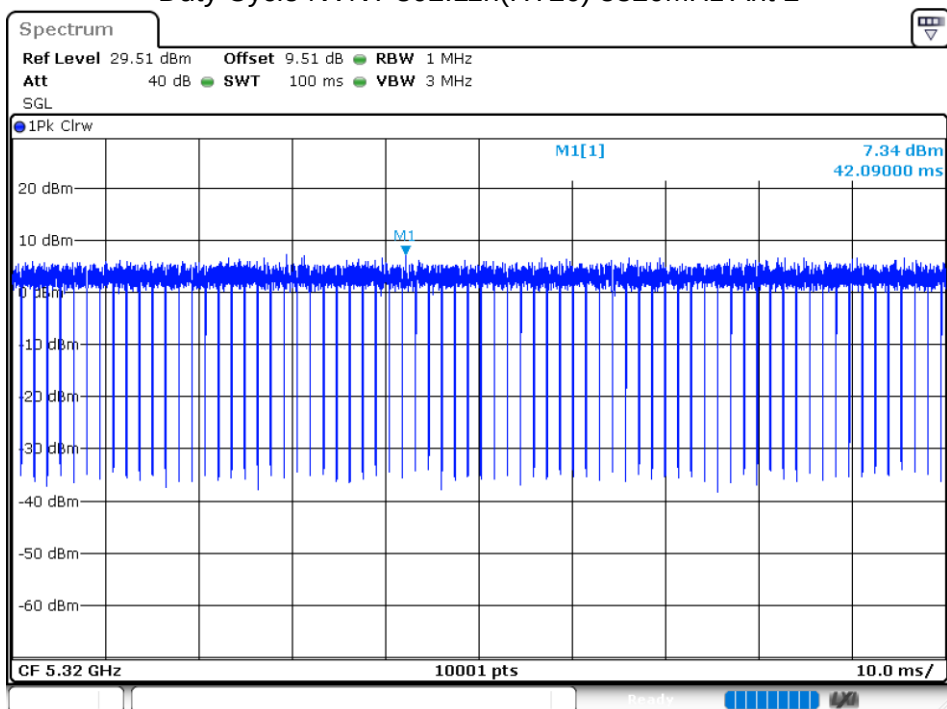
Duty Cycle NVNT 802.11n(HT20) 5260MHz Ant 2



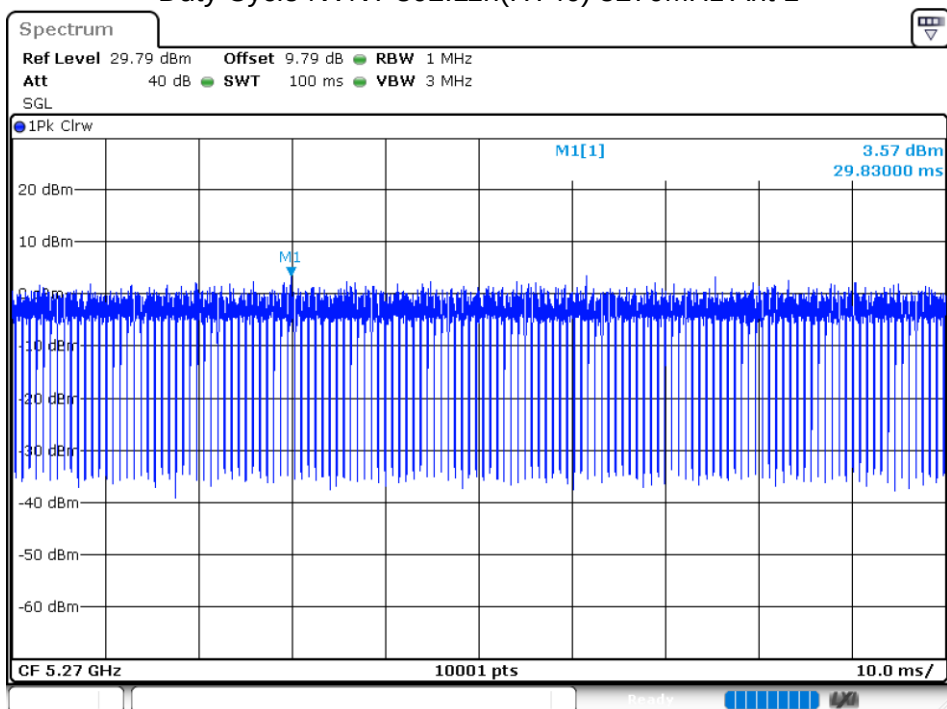
Duty Cycle NVNT 802.11n(HT20) 5280MHz Ant 2



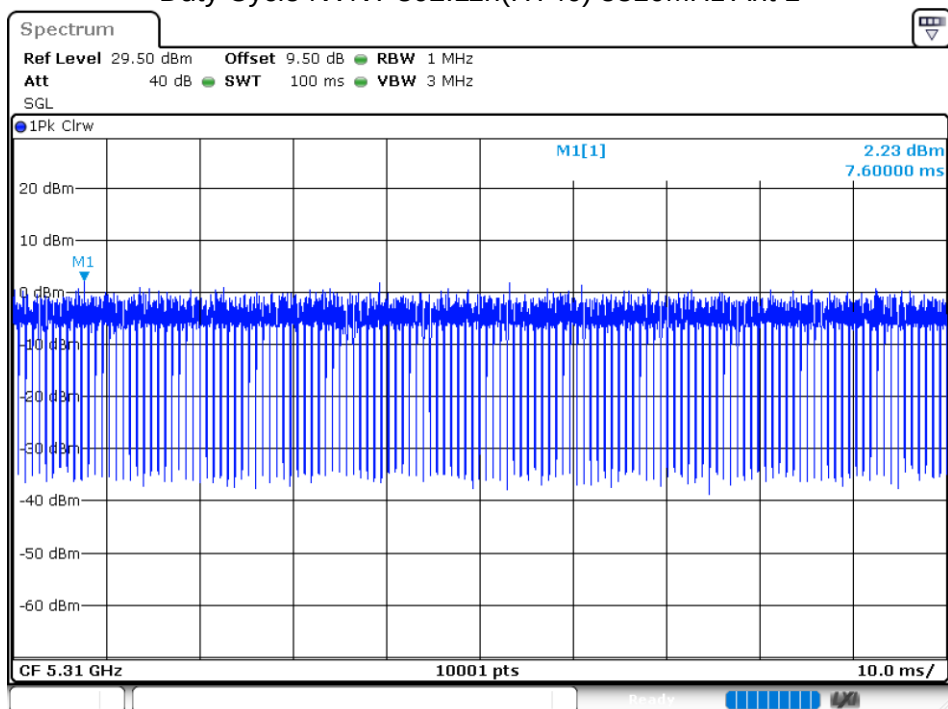
Duty Cycle NVNT 802.11n(HT20) 5320MHz Ant 2



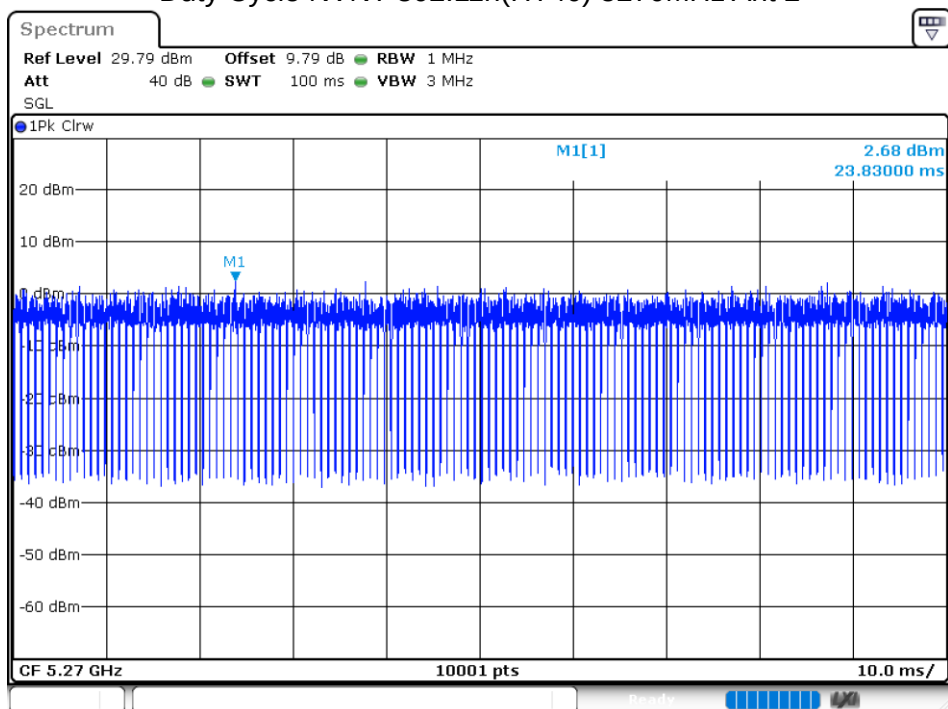
Duty Cycle NVNT 802.11n(HT40) 5270MHz Ant 1



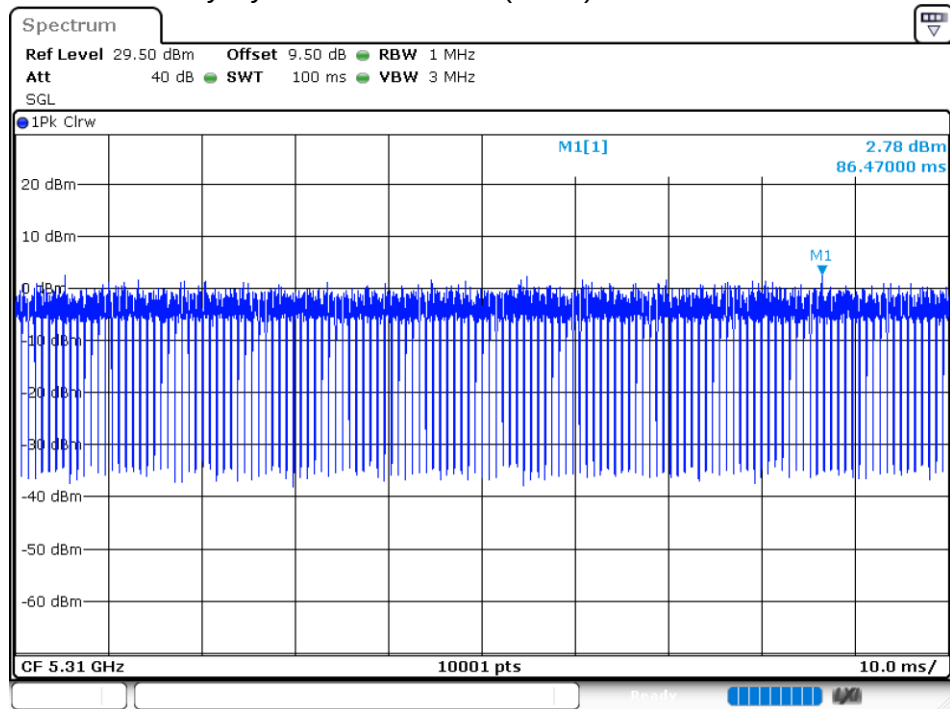
Duty Cycle NVNT 802.11n(HT40) 5310MHz Ant 1



Duty Cycle NVNT 802.11n(HT40) 5270MHz Ant 2



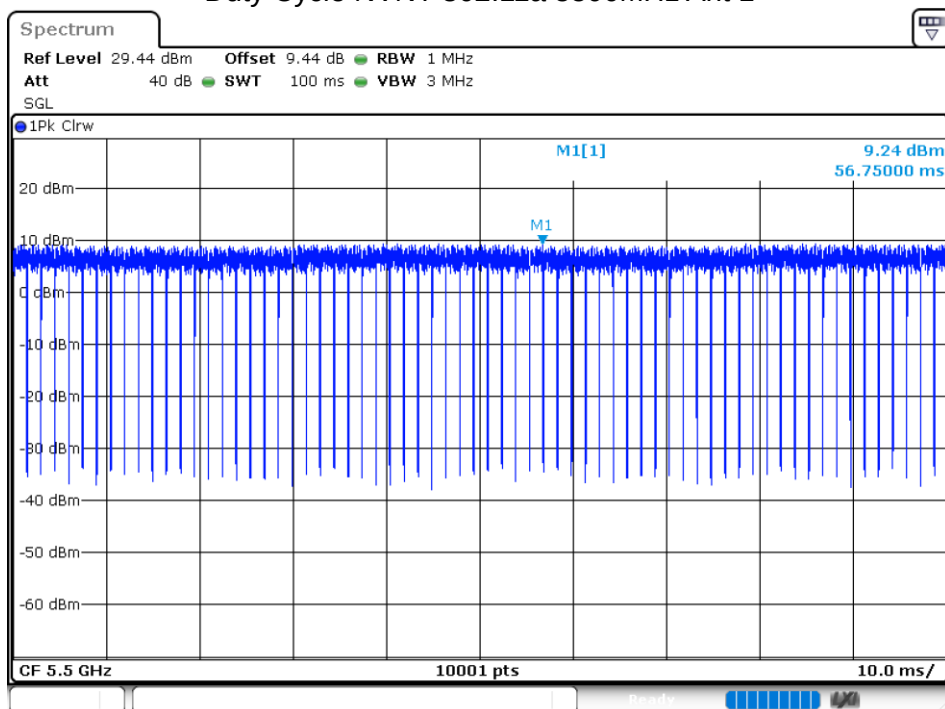
Duty Cycle NVNT 802.11n(HT40) 5310MHz Ant 2



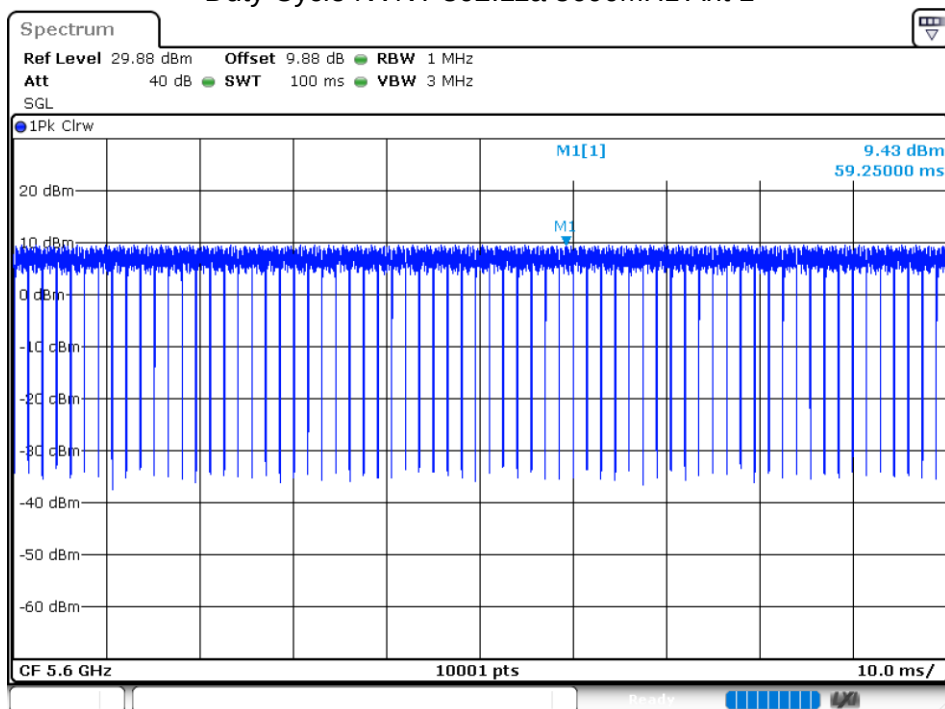
5.6G:

Antenna	Condition	Mode	Frequency (MHz)	Duty Cycle (%)
Ant 1	NVNT	802.11a	5500	100
Ant 1	NVNT	802.11a	5600	100
Ant 1	NVNT	802.11a	5700	100
Ant 2	NVNT	802.11a	5500	100
Ant 2	NVNT	802.11a	5600	100
Ant 2	NVNT	802.11a	5700	100
Ant 1	NVNT	802.11ac20	5500	100
Ant 1	NVNT	802.11ac20	5600	100
Ant 1	NVNT	802.11ac20	5700	100
Ant 2	NVNT	802.11ac20	5500	100
Ant 2	NVNT	802.11ac20	5600	100
Ant 2	NVNT	802.11ac20	5700	100
Ant 1	NVNT	802.11ac40	5510	100
Ant 1	NVNT	802.11ac40	5590	100
Ant 1	NVNT	802.11ac40	5670	100
Ant 2	NVNT	802.11ac40	5510	100
Ant 2	NVNT	802.11ac40	5590	100
Ant 2	NVNT	802.11ac40	5670	100
Ant 1	NVNT	802.11ac80	5530	100
Ant 1	NVNT	802.11ac80	5610	100
Ant 2	NVNT	802.11ac80	5530	100
Ant 2	NVNT	802.11ac80	5610	100
Ant 1	NVNT	802.11n(HT20)	5500	100
Ant 1	NVNT	802.11n(HT20)	5600	100
Ant 1	NVNT	802.11n(HT20)	5700	100
Ant 2	NVNT	802.11n(HT20)	5500	100
Ant 2	NVNT	802.11n(HT20)	5600	100
Ant 2	NVNT	802.11n(HT20)	5700	100
Ant 1	NVNT	802.11n(HT40)	5510	100
Ant 1	NVNT	802.11n(HT40)	5590	100
Ant 1	NVNT	802.11n(HT40)	5670	100
Ant 2	NVNT	802.11n(HT40)	5510	100
Ant 2	NVNT	802.11n(HT40)	5590	100
Ant 2	NVNT	802.11n(HT40)	5670	100

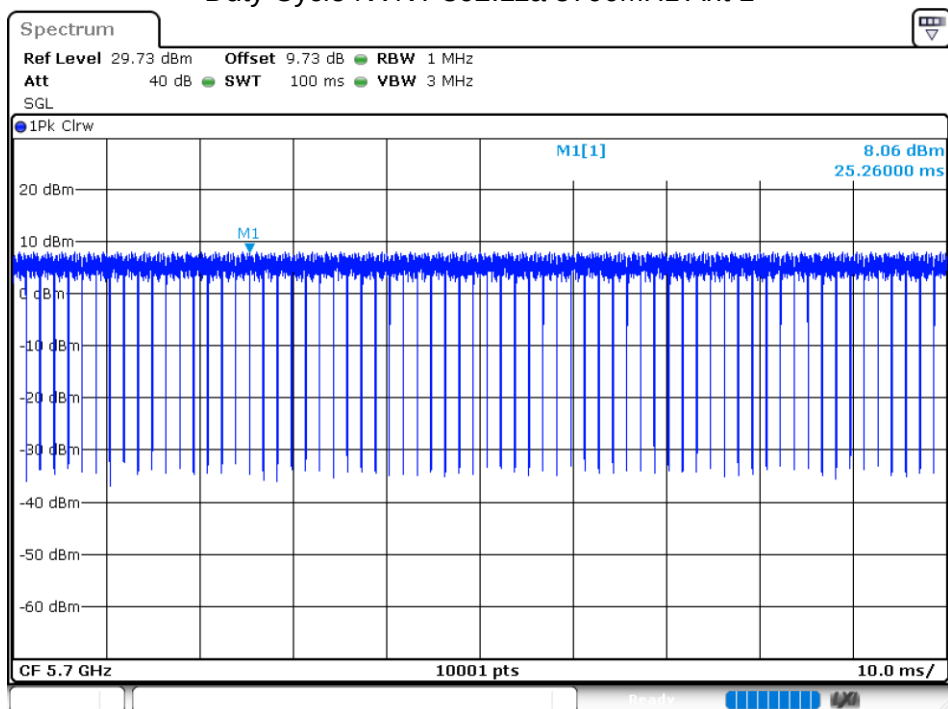
Duty Cycle NVNT 802.11a 5500MHz Ant 1



Duty Cycle NVNT 802.11a 5600MHz Ant 1



Duty Cycle NVNT 802.11a 5700MHz Ant 1



Duty Cycle NVNT 802.11a 5500MHz Ant 2

