TEST REPORT

Report Reference No..... :	**TRE1702003102**	R/C…….: 57776
FCC ID..... :	**2AK7ELIH01**	
Applicant's name..... :	**VuPoint Solutions Inc**	
Address.....:	710 Nogales Street, City of Industry, CA91748, USA	
Manufacturer.....:	VuPoint Solutions Inc	
Address.....:	710 Nogales Street, City of Industry, CA91748, USA	
Test item description ..... :	**VU Cam**	
Trade Mark .....:	VuPoint	
Model/Type reference.....:	GC100KU	
Listed Model(s) .....:	OC100KU	
Standard ..... :	**FCC CFR Title 47 Part 15 Subpart E Section 15.407**	
Date of receipt of test sample……..:	Feb. 15, 2017	
Date of testing……:	Feb. 15, 2017 - Jul. 12, 2017	
Date of issue……...:	Jul. 26, 2017	
Result..... ……...:	**PASS**	

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Supervised by (position+printedname+signature)....:	Project Engineer Jeff Sun	Jeff Sun
Approved by (position+printedname+signature)....:	RF Manager Hans Hu	Hans Hu

Testing Laboratory Name ..... :	**Shenzhen Huatongwei International Inspection Co., Ltd.**
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Contents

1.	**TEST STANDARDS AND TEST DESCRIPTION**	**3**
1.1.	**Test Standards**	**3**
1.2.	**Report Version**	**3**
2.	**TEST DESCRIPTION**	**4**
3.	**SUMMARY**	**5**
3.1.	**Client Information**	**5**
3.2.	**Product Description**	**5**
3.3.	**Operation state**	**6**
3.4.	**EUT configuration**	**7**
3.5.	**Modifications**	**7**
4.	**TEST ENVIRONMENT**	**8**
4.1.	**Address of the test laboratory**	**8**
4.2.	**Test Facility**	**8**
4.3.	**Equipments Used during the Test**	**9**
4.4.	**Environmental conditions**	**10**
4.5.	**Statement of the measurement uncertainty**	**10**
5.	**TEST CONDITIONS AND RESULTS**	**11**
5.1.	**Antenna requirement**	**11**
5.2.	**Conducted Emissions (AC Main)**	**12**
5.3.	**Maximum Conducted Output Power**	**15**
5.4.	**Maximum Power Spectral Density**	**17**
5.5.	**6dB&26dB bandwidth**	**32**
5.6.	**Radiated Emissions & Band edge**	**47**
5.7.	**Frequency stability**	**62**
5.8.	**Dynamic Frequency Selection (DFS)**	**65**
6.	**TEST SETUP PHOTOS OF THE EUT**	**73**
7.	**EXTERNAL AND INTERNAL PHOTOS OF THE EUT**	**74**

1. TEST STANDARDS AND TEST DESCRIPTION

1.1. Test Standards

The tests were performed according to following standards:
FCC Rules Part 15.407: General technical requirements.

ANSI C63.10-2013:American National Standard for Testing Unlicensed Wireless Devices

KDB789033 D02 v01r04: GUIDELINES FOR COMPLIANCE TESTING OF UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII) DEVICES PART 15, SUBPART E

1.2. Report Version

Version No.	Date of issue	Description
00	Jul. 26, 2017	Original

2. TEST DESCRIPTION

ReportSection	Test Item	FCC Rule	Result
4.1	Antenna Requirement	15.203	Pass
4.2	Line Conducted Emissions (AC Main)	15.207	Pass
4.3	Maximum Conducted Output Power	15.407(a.1)(a.2)(a.3)	Pass
4.4	Maximum Power Spectral Density	15.407(a.1)(a.2)(a.3)	Pass
4.5	6dB&26dB Bandwidth	15.407(a.5)(e)	Pass
4.6	Radiated Emissions & Band edge	15.407(b)	Pass
4.7	Frequency Stability	15.407(g)	Pass
4.8	TPC and DFS	15.407(h)	Pass

Remark: 1.The measurement uncertainty is not included in the test result.
2.The EUT is a client device without radar detection.a TPC mechanism is not required for systems with an e.i.r.p. of less than 500mW.

3. SUMMARY

3.1. Client Information

Applicant:	VuPoint Solutions Inc
Address:	710 Nogales Street, City of Industry, CA91748, USA
Manufacturer:	VuPoint Solutions Inc
Address:	710 Nogales Street, City of Industry, CA91748, USA

3.2. Product Description

Name of EUT:	VU Cam
Trade Mark:	VuPoint
Model No.:	GC100KU
Listed Model(s):	OC100KU
Power supply:	DC 5.0V from USB port
Adapter information:	Model:ASSA41w2-050250 Input: 100-240Va.c., 50/60Hz, 0.5A Output: 5.0Vd.c., 2.5A
5G WIFI	
Supported type:	802.11a/802.11ac/802.11n
Modulation:	BPSK /QPSK /16QAM /64QAM
Operation frequency:	Band I: 5150MHz-5250MHz Band II: 5250MHz-5350MHz(Client device without detection) Band III: 5470MHz-5725MHz(Client device without detection) Band IV: 5725MHz-5850MHz
Channel Bandwidth	802.11a/n(HT20): 20MHz 802.11ac/n(HT40): 40MHz 802.11ac/n(HT80): 80MHz
Channel separation:	5MHz
Antenna type:	Integral antenna
Antenna gain:	2.0 dBi

3.3. Operation state

◆ **Frequency list**

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channel which were tested. the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the above gray bottom.

20MHz				40MHz			
Band	Test Channel	Channel	Frequency (MHz)	Band	Test Channel	Channel	Frequency (MHz)
Band I	Low	36	5180	Band I	Low	38	5190
	Mid	40	5200		High	46	5230
		44	5220	Band II	Low	54	5270
	High	48	5240		High	62	5310
Band II	Low	52	5260	Band III	Low	102	5510
	Mid	56	5280			110	5550
		60	5300		Mid	118	5590
	High	64	5320		Mid	126	5630
Band III	Low	100	5500		High	134	5670
		104	5520			142	5710
		108	5540	Band IV	Low	151	5755
		112	5560		High	159	5795
		116	5580				
	Mid	120	5600				
		124	5620				
		128	5640				
		132	5660				
		136	5680				
	High	140	5700				
		144	5720				
Band IV	Low	149	5745				
		153	5765				
	Mid	157	5785				
		161	5805				
	High	165	5825				
80MHz							
Band I	Mid	42	5210				
Band II	Mid	58	5290				
Band III	Low	106	5530				
	Mid	122	5610				
	High	138	5690				
Band IV	Mid	155	5775				

◆ **Data Rated**

Preliminary tests were performed in different data rate, and found which the below bit rate is worst case mode, so only show data which it is a worst case mode.

Mode	datarate (worst mode)
802.11a	54Mbps
802.11n(HT20)	MCS7
802.11n(HT40)	MCS8
802.11ac(HT80)	MCS9

◆ **Test mode**

For RF test items:

the engineering test program was provided and enabled to make EUT continuous transmit/receive. The EUT was programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

For AC power line conducted emissions:

the EUT was set to connect with the WLAN AP under large package sizes transmission.

3.4. EUT configuration

The following peripheral devices and interface cables were connected during the measurement:

● - supplied by the manufacturer

○ - supplied by the lab

○	Lamp	Manufacturer :	PHILIPS
		Model No. :	25W 230V>1F
○	Person computer	Manufacturer :	TOSHIBA
		Model No. :	M800-T30B1

3.5. Modifications

No modifications were implemented to meet testing criteria.

4. TEST ENVIRONMENT

4.1. Address of the test laboratory

Laboratory:Shenzhen Huatongwei International Inspection Co., Ltd.
Address: 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China
Phone: 86-755-26748019 Fax: 86-755-26748089

4.2. Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L1225

Shenzhen Huatongwei International Inspection Co., Ltd. has been assessed and proved to be in compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2005 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No. 3902.01

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

FCC-Registration No.: 762235

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The acceptance letter from the FCC is maintained in our files. Registration 762235.

IC-Registration No.: 5377B-1

Two 3m Alternate Test Site of Shenzhen Huatongwei International Inspection Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for the performance of radiated measurements with Registration No. 5377B-1.

ACA

Shenzhen Huatongwei International Inspection Co., Ltd. EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our A2LA accreditation.

4.3. Equipments Used during the Test

Radiated Emissions					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Ultra-Broadband Antenna	ShwarzBeck	VULB9163	538	2016/11/13
2	EMI Test Receiver	Rohde&Schwarz	ESI 26	100009	2016/11/13
3	EMI Test Software	Audix	E3	N/A	N/A
4	Turntable	ETS	2088	2149	N/A
5	Antenna Mast	ETS	2075	2346	N/A
6	EMI Test Software	Rohde&Schwarz	ESK1	N/A	N/A
7	Horn Antenna	ShwarzBeck	9120D	1011	2016/11/13
8	Horn Antenna	ShwarzBeck	9120D	1012	2016/11/13
9	Amplifer	Sonoma	310N	E009-13	2016/11/13
10	JS amplifer	Rohde&Schwarz	JS4-00101800-28-5A	F201504	2016/11/13
11	High pass filter	Compliance Direction systems	BSU-6	34202	2016/11/13
12	Amplifer	Compliance Direction systems	PAP1-4060	120	2016/11/13
13	Loop Antenna	Rohde&Schwarz	HFH2-Z2	100020	2016/11/13
14	Turntable	MATURO	TT2.0	/	N/A
15	Antenna Mast	MATURO	TAM-4.0-P	/	N/A
16	Horn Antenna	SCHWARZBECK	BBHA9170	25841	2016/11/13
17	Ultra-Broadband Antenna	Rohde&Schwarz	HL562	100015	2016/11/13

Conducted test					
Item	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal
1	Spectrum Analyzer	Rohde&Schwarz	FSV40	100048	2016/11/13
2	OSP	Rohde&Schwarz	OSP120	101317	2016/11/13
3	OSP	Rohde&Schwarz	OSP-B157	100890	2016/11/13
4	Signal generator	Rohde&Schwarz	SMB100A	177956	2016/11/13
5	Vector signal generator	Rohde&Schwarz	SMBV100A	260790	2016/11/13
6	EXA Signal Analyzer	Agilent	N9010A	184247	2016/11/13

The Cal.Interval was one year

4.4. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

Temperature:	15~35°C
lative Humidity:	30~60 %
Air Pressure:	950~1050mba

4.5. Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors in calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report according to TR-100028-01 “Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics;Part 1” and TR-100028-02 “Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurementof mobile radio equipment characteristics;Part 2” and is documented in the Shenzhen Huatongwei International Inspection Co., Ltd quality system according to ISO/IEC 17025. Further more, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Here after the best measurement capability for Shenzhen Huatongwei is reported:

Test Items	MeasurementUncertainty	Notes
Transmitter power conducted	0.57 dB	(1)
Transmitter power Radiated	2.20 dB	(1)
Conducted spurious emissions 9KHz-40 GHz	1.60 dB	(1)
Radiated spurious emissions 9KHz-40 GHz	2.20 dB	(1)
Conducted Emissions 9KHz-30MHz	3.39 dB	(1)
Radiated Emissions 30~1000MHz	4.24 dB	(1)
Radiated Emissions 1~18GHz	5.16 dB	(1)
Radiated Emissions 18-40GHz	5.54 dB	(1)
Occupied Bandwidth	---------	(1)

(1) This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

5. TEST CONDITIONS AND RESULTS

5.1. Antenna requirement

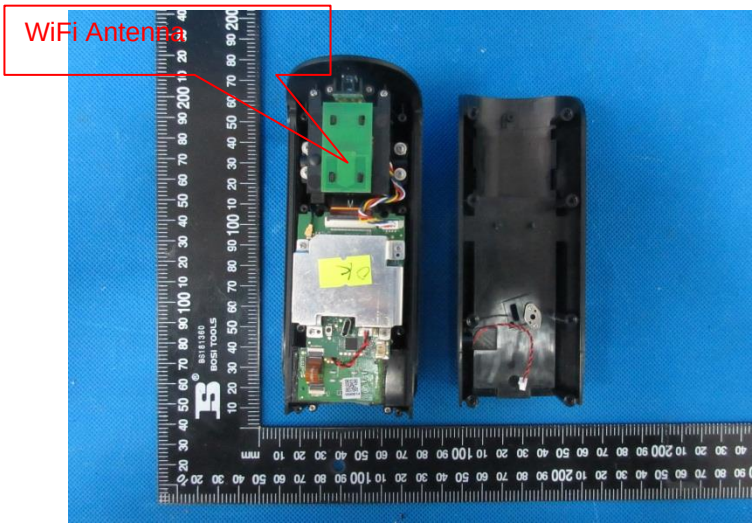
Requirement

FCC CFR Title 47 Part 15 Subpart C Section 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. The use of a permanently attached antenna or of anantenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Test Result:

The directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. Conducted Emissions (AC Main)

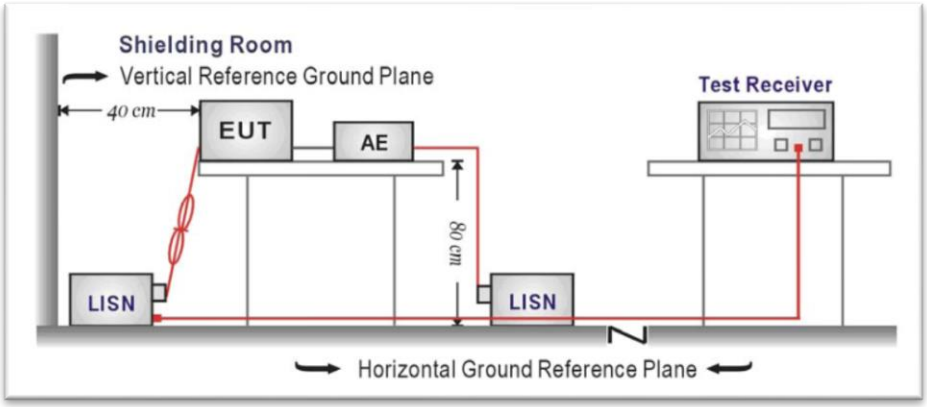
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Frequency range (MHz)	Limit (dBuV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION

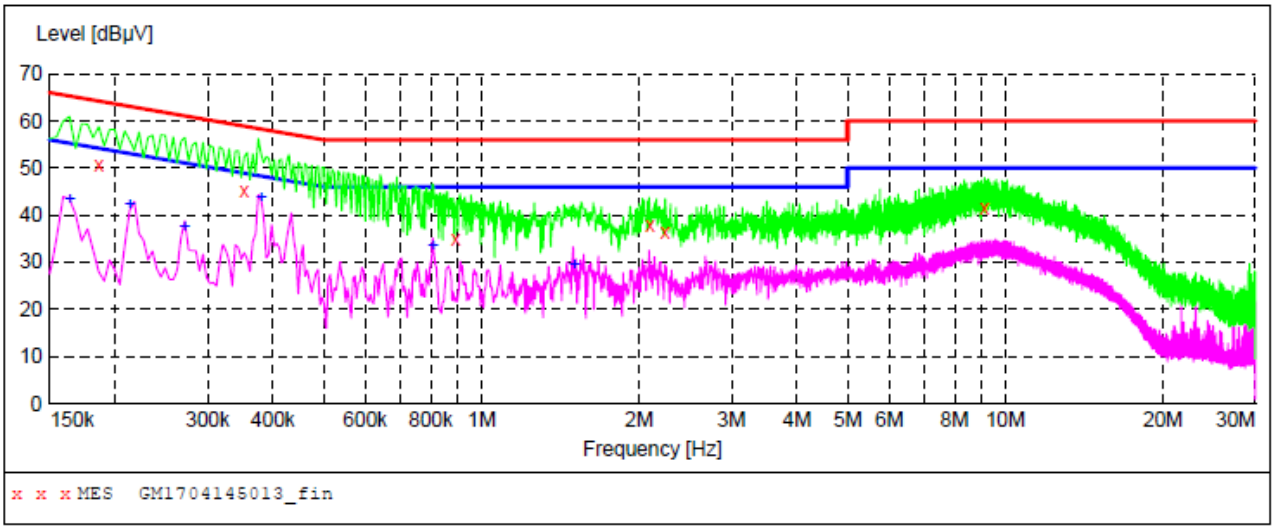


TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10:2013 for compliance to FCC 47CFR 15.247 requirements.
2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 10 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 10 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor,was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST RESULTS

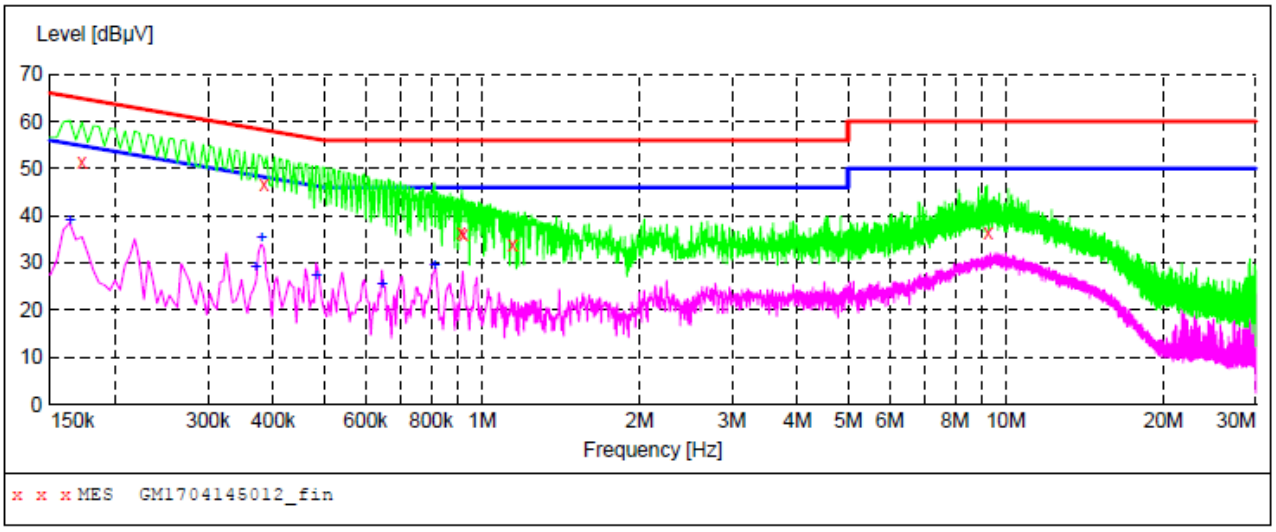
Test mode:AC 120V	5G WIFI	Polarization	L



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.186000	50.80	10.3	64	13.4	QP	L1	GND
0.352500	45.30	10.2	59	13.6	QP	L1	GND
0.892500	35.00	10.1	56	21.0	QP	L1	GND
2.098500	37.70	10.2	56	18.3	QP	L1	GND
2.242500	36.50	10.2	56	19.5	QP	L1	GND
9.123000	41.40	10.5	60	18.6	QP	L1	GND

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.163500	43.50	10.4	55	11.8	AV	L1	GND
0.213000	42.30	10.3	53	10.8	AV	L1	GND
0.271500	37.50	10.2	51	13.6	AV	L1	GND
0.379500	43.90	10.2	48	4.4	AV	L1	GND
0.807000	33.30	10.2	46	12.7	AV	L1	GND
1.504500	29.30	10.2	46	16.7	AV	L1	GND

Test mode: AC 120V	5G WIFI	Polarization	N



Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.172500	51.60	10.4	65	13.2	QP	N	GND
0.384000	46.80	10.2	58	11.4	QP	N	GND
0.915000	36.60	10.2	56	19.4	QP	N	GND
0.924000	36.10	10.2	56	19.9	QP	N	GND
1.144500	33.90	10.2	56	22.1	QP	N	GND
9.262500	36.40	10.6	60	23.6	QP	N	GND

Frequency MHz	Level dBµV	Transd dB	Limit dBµV	Margin dB	Detector	Line	PE
0.163500	38.80	10.4	55	16.5	AV	N	GND
0.370500	29.20	10.2	49	19.3	AV	N	GND
0.379500	35.20	10.2	48	13.1	AV	N	GND
0.483000	27.40	10.2	46	18.9	AV	N	GND
0.645000	25.30	10.2	46	20.7	AV	N	GND
0.811500	29.50	10.2	46	16.5	AV	N	GND

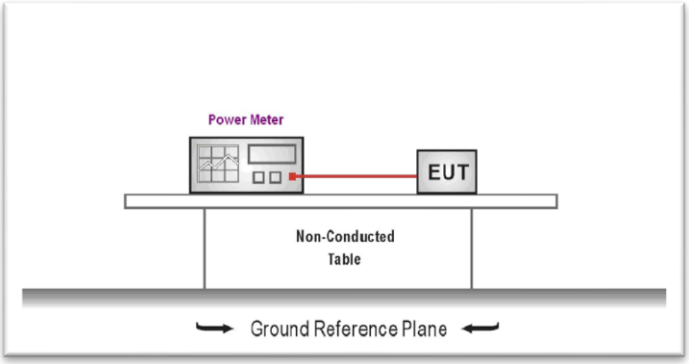
Remark:Transd=Cable lose+ PULSE LIMITER factor+ ARTIFICIAL MAINS factor; Margin= Limit -Level

5.3. Maximum Conducted Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407:
In the 5.15 – 5.25GHz band, the maximum permissible conducted output power is 250mW (23.98dBm)
In the 5.25 – 5.35GHz band, the maximum permissible conducted output power is the lesser of 250mW (23.98dBm) and 11 dBm + 10log10(26dB BW) = 11 dBm + 10log10(18.87) = 23.76dBm.
In the 5.725 – 5.850GHz band, the maximum permissible conducted output power is 1W (30dBm).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to KDB789033 requirements.

2. The maximum conducted output power may be measured using a broadband AVG RF power meter.

3. Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power

4. Record the measurement data.

TEST RESULTS

	Type	Channel	Output power (dBm)	Limit (dBm)	Result
Band I 5150-5250MHz	802.11a	Low	11.71	24.00	Pass
		Mid	11.78		
		High	12.16		
	802.11n(HT20)	Low	11.41	24.00	Pass
		Mid	11.67		
		High	11.88		
	802.11n(HT40)	Low	12.36	24.00	Pass
		High	12.36		
	802.11ac(HT80)	Mid	8.14	24.00	Pass

	Type	Channel	Output power (dBm)	Limit (dBm)	Result
Band II 5250-5350MHz	802.11a	Low	13.13	24.00	Pass
		Mid	13.48		
		High	13.75		
	802.11n(HT20)	Low	9.16	24.00	Pass
		Mid	9.58		
		High	9.79		
	802.11n(HT40)	Low	11.88	24.00	Pass
		High	12.48		
	802.11ac(HT80)	Mid	9.15	24.00	Pass

	Type	Channel	Output power (dBm)	Limit (dBm)	Result
Band III 5470-5725MHz	802.11a	Low	14.20	24.00	Pass
		Mid	13.69		
		High	12.69		
	802.11n(HT20)	Low	13.65	24.00	Pass
		Mid	13.17		
		High	12.23		
	802.11n(HT40)	Low	13.77	24.00	Pass
		Mid	13.29		
		High	12.81		
	802.11ac(HT80)	Low	10.53	24.00	Pass
		Mid	10.09		
		High	10.59		

	Type	Channel	Output power (dBm)	Limit (dBm)	Result
Band IV 5725-5850MHz	802.11a	Low	11.72	30.00	Pass
		Mid	11.10		
		High	10.50		
	802.11n(HT20)	Low	11.26	30.00	Pass
		Mid	10.59		
		High	10.29		
	802.11n(HT40)	Low	11.30	30.00	Pass
		High	10.73		
	802.11ac(HT80)	Mid	7.61	30.00	Pass

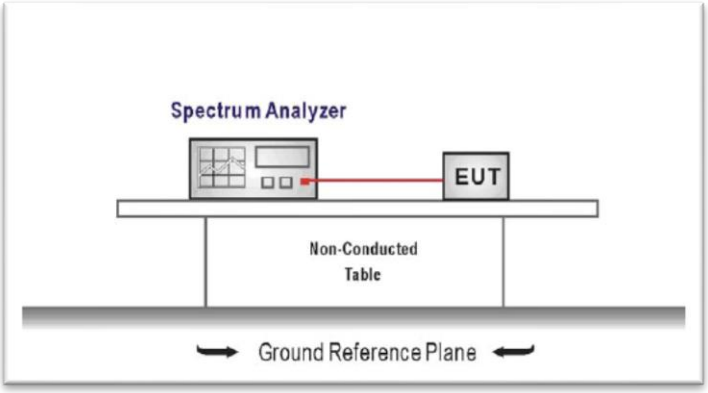
5.4. Maximum Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart E Section 15.407:

In the 5.15 – 5.25GHz, 5.25 – 5.35GHz, 5.47 – 5.725GHz bands, the maximum permissible power spectral density is 11dBm/MHz.
In the 5.725 – 5.850GHz band, the maximum permissible power spectral density is 30dBm/500kHz.

TEST CONFIGURATION



TEST PROCEDURE

According KDB 789033 D02 v01r02 – Section F
1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire emission bandwidth of the signal
3. RBW = 1MHz, 4. VBW = 3MHz
7. Number of sweep points > 2 x (span/RBW)
8. Sweep time = auto
6. Detector = power averaging (RMS)
7. Trigger was set to free run for all modes
8. Trace was averaged over 100 sweeps
9. The peak search function of the spectrum analyzer was used to find the peak of the spectrum.

TEST RESULTS

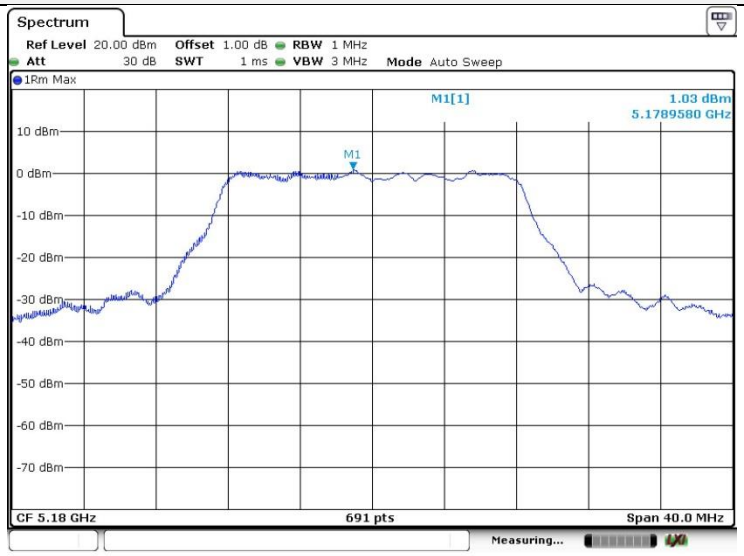
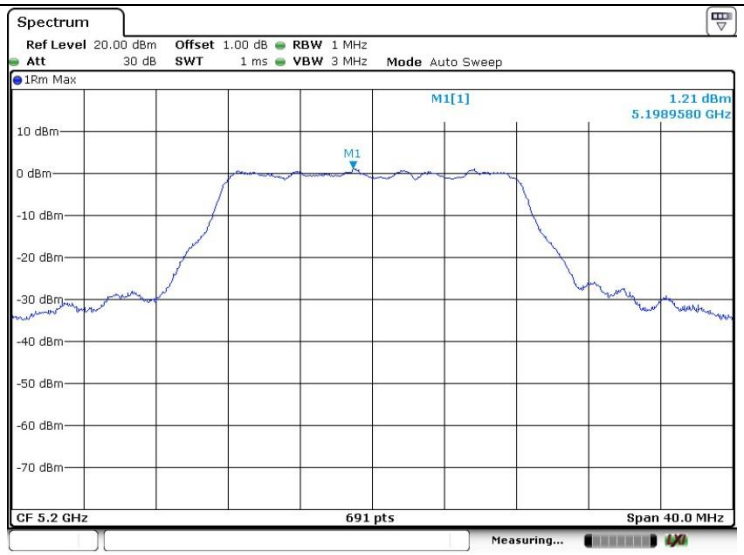
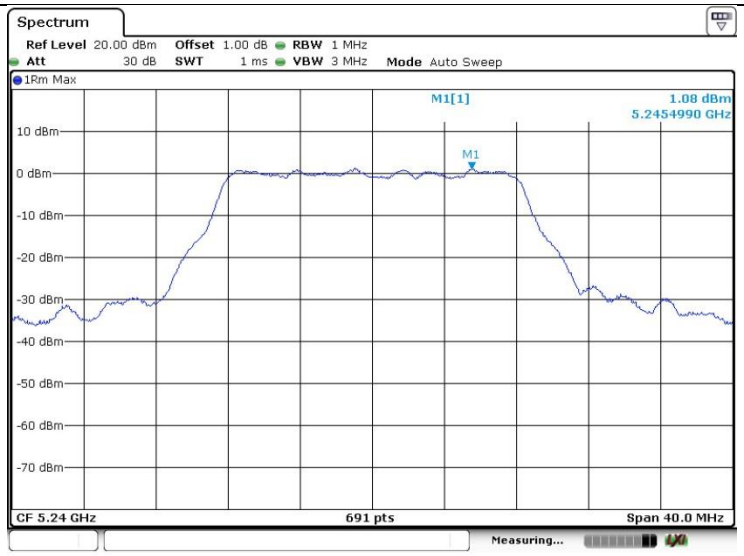
	Type	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
Band I 5150-5250MHz	802.11a	Low	1.03	11.00	Pass
		Mid	1.21		
		High	1.08		
	802.11n(HT20)	Low	0.98	11.00	Pass
		Mid	0.94		
		High	1.40		
	802.11n(HT40)	Low	-2.44	11.00	Pass
		High	-1.60		
	802.11ac(HT80)	Mid	-7.55	11.00	Pass

	Type	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
Band II 5250-5350MHz	802.11a	Low	2.19	11.00	Pass
		Mid	2.53		
		High	2.70		
	802.11n(HT20)	Low	-1.42	11.00	Pass
		Mid	-1.00		
		High	-0.51		
	802.11n(HT40)	Low	-1.68	11.00	Pass
		High	-1.88		
	802.11ac(HT80)	Mid	-7.43	11.00	Pass

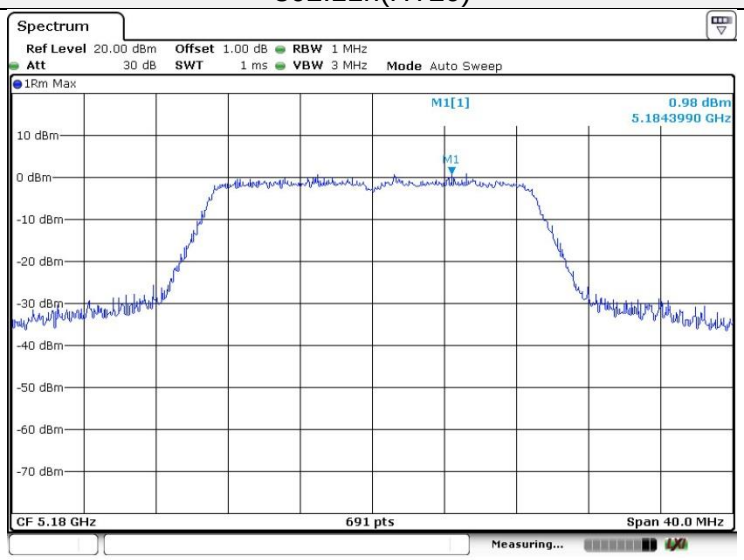
	Type	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
Band III 5470-5725MHz	802.11a	Low	3.56	11.00	Pass
		Mid	3.11		
		High	2.12		
	802.11n(HT20)	Low	3.09	11.00	Pass
		Mid	2.75		
		High	2.23		
	802.11n(HT40)	Low	-0.23	11.00	Pass
		Mid	0.40		
		High	-0.75		
	802.11ac(HT80)	Mid	-6.74	11.00	Pass

	Type	Channel	PSD (dBm/MHz)	Limit (dBm/MHz)	Result
Band IV 5725-5850MHz	802.11a	Low	-0.20	30.00	Pass
		Mid	-1.07		
		High	-1.48		
	802.11n(HT20)	Low	-1.18	30.00	Pass
		Mid	-1.76		
		High	-2.62		
	802.11n(HT40)	Low	-3.39	30.00	Pass
		High	-4.69		
	802.11ac(HT80)	Mid	-10.03	30.00	Pass

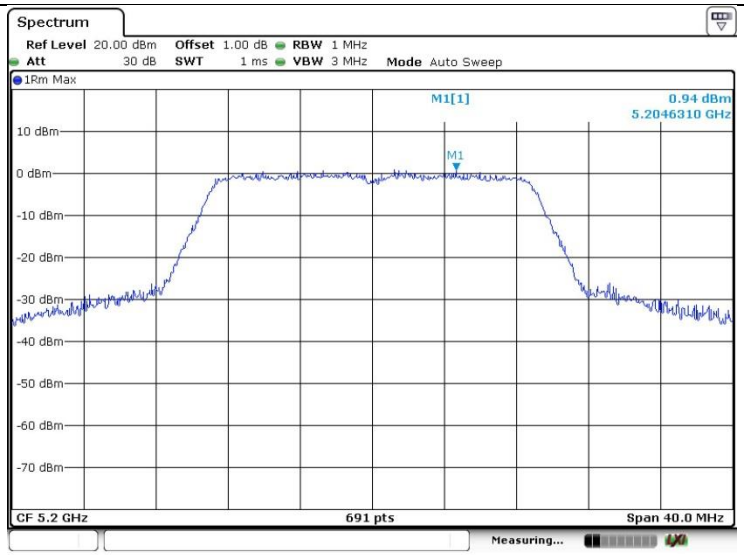
Test plot as follows:

Band I
802.11a

Low

Mid

High

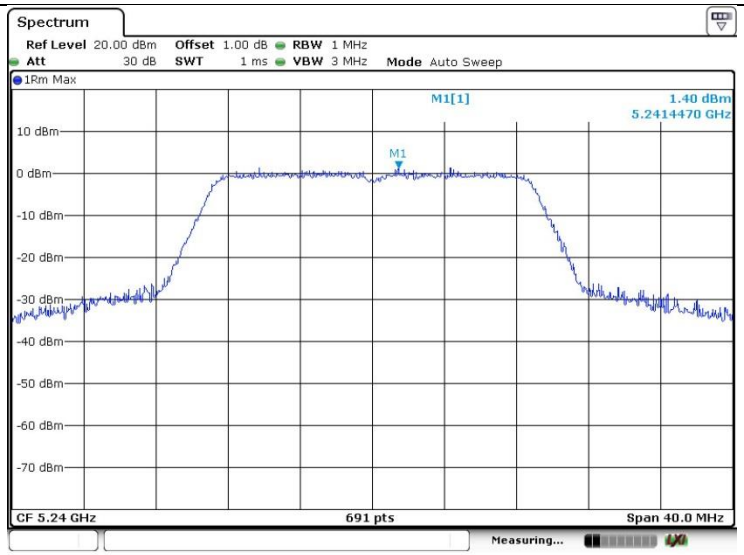
802.11n(HT20)



Low

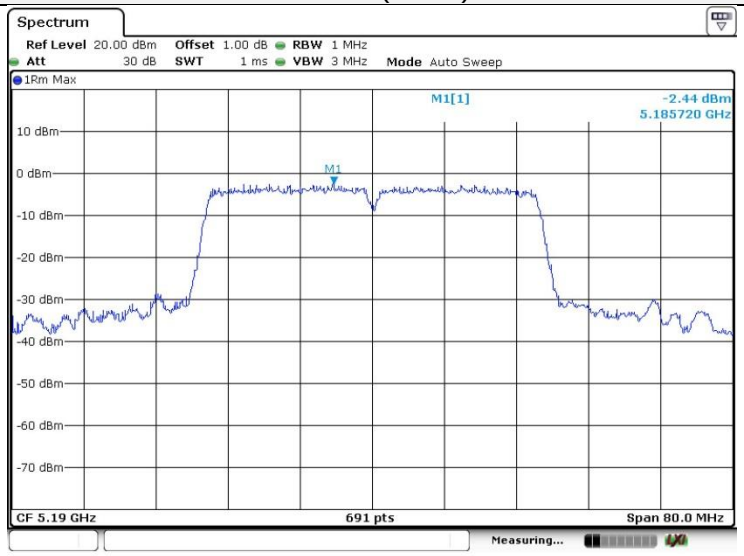


Mid

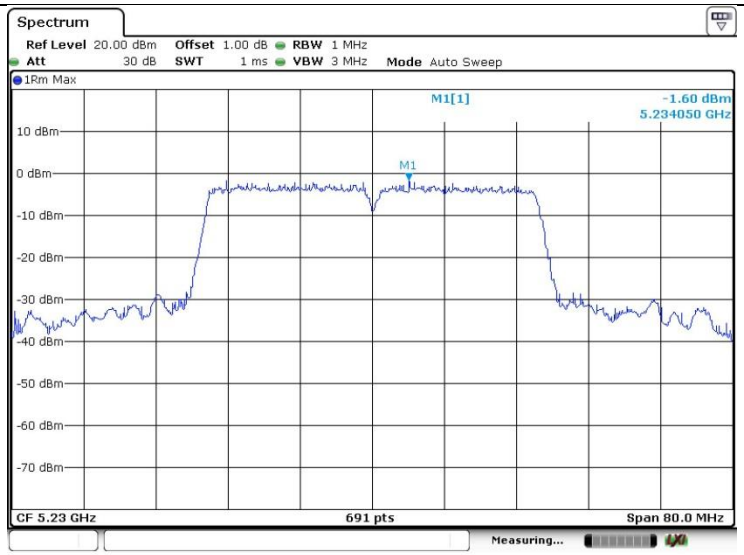


High

802.11n(HT40)

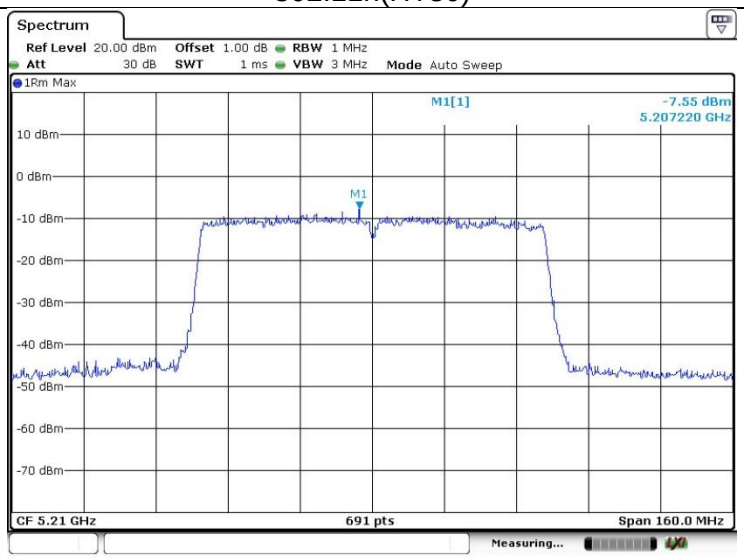


Low



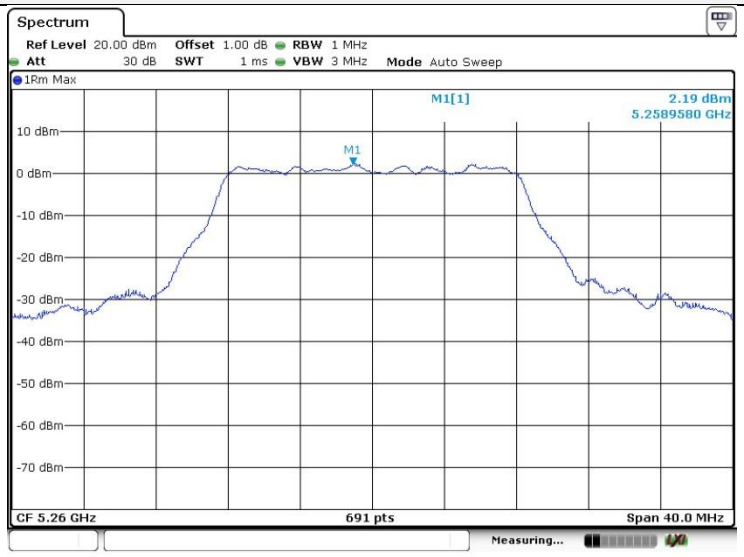
High

802.11n(HT80)

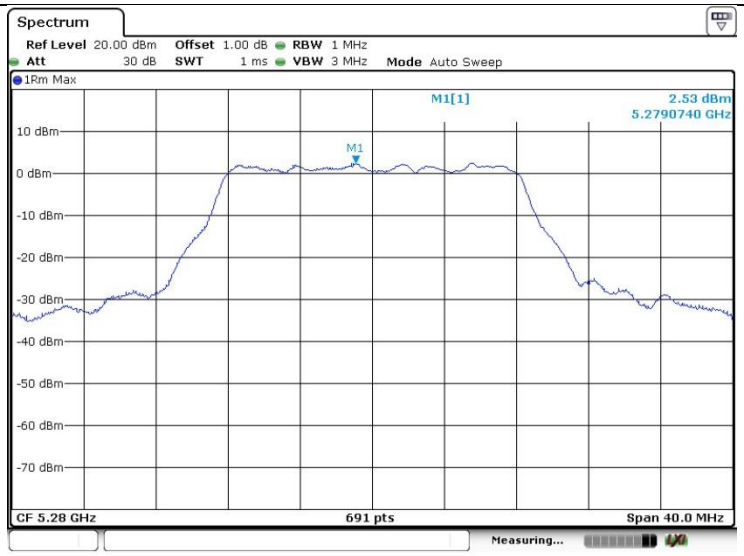


Mid

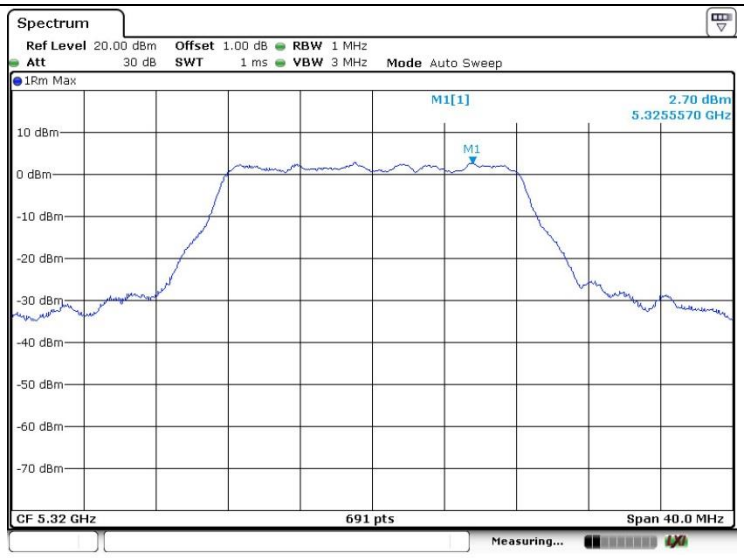
Band II
802.11a



Low

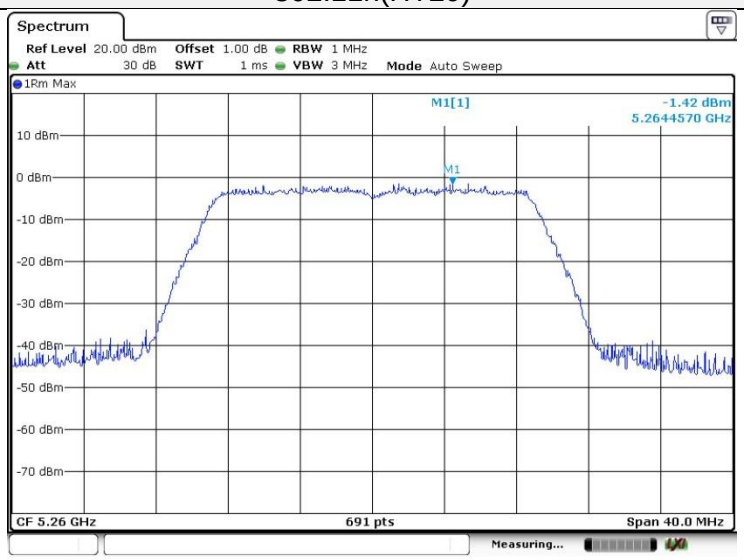


Mid



High

802.11n(HT20)



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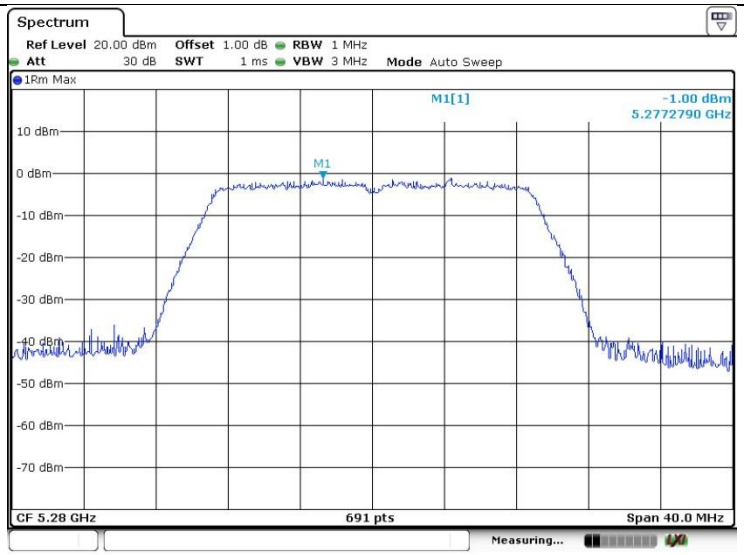
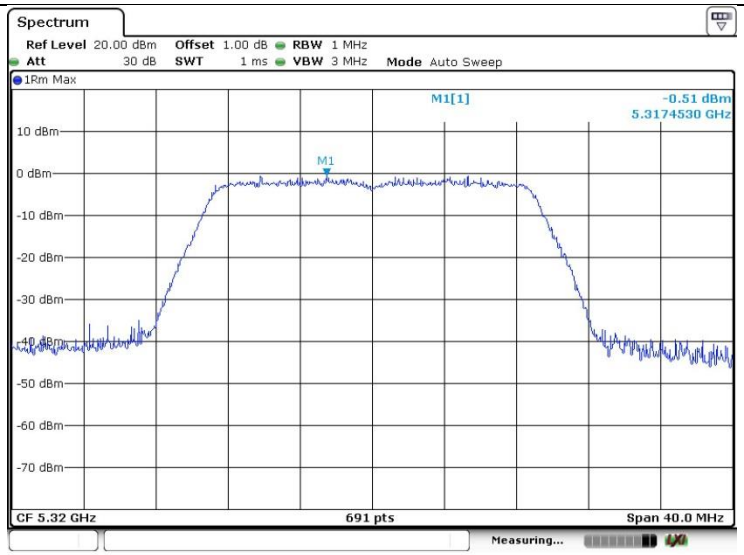
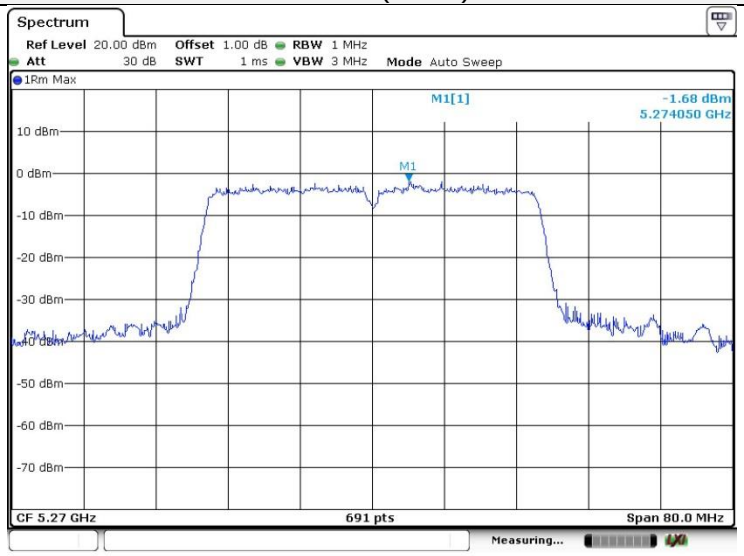


Mid



High

802.11n(HT40)



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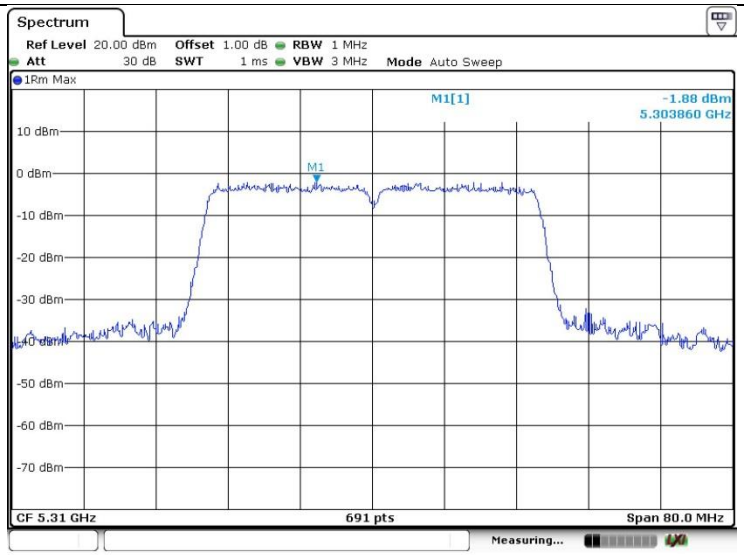
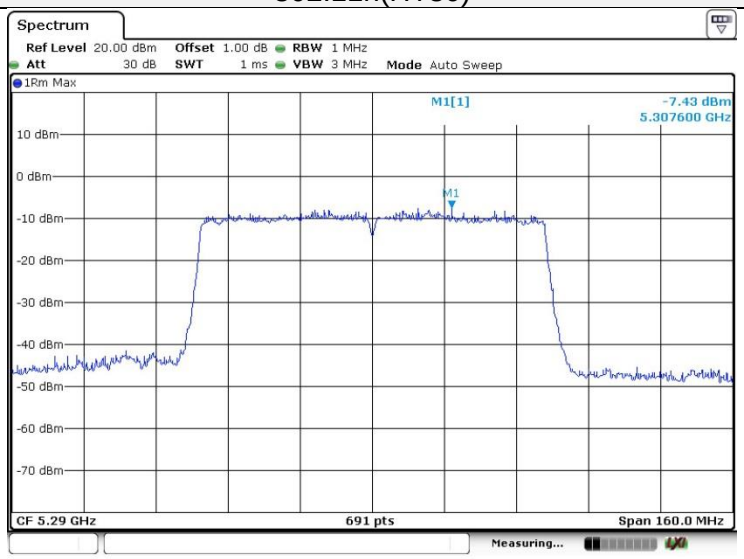


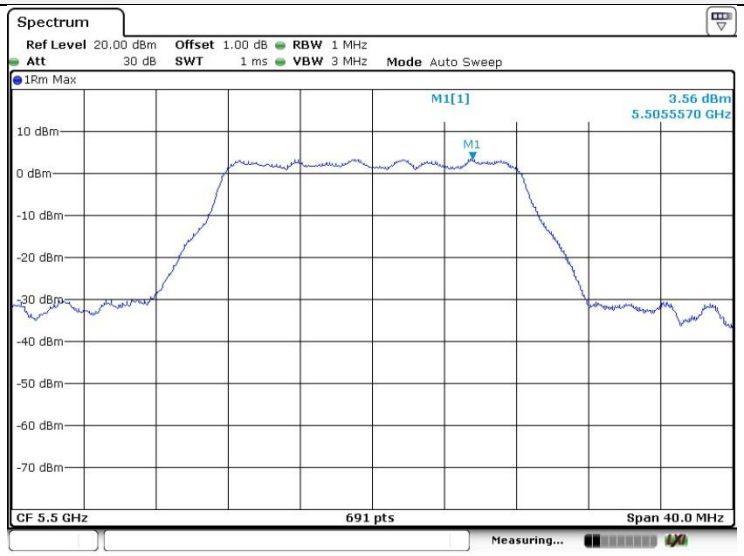
High

802.11n(HT80)



Mid

Band III
802.11a



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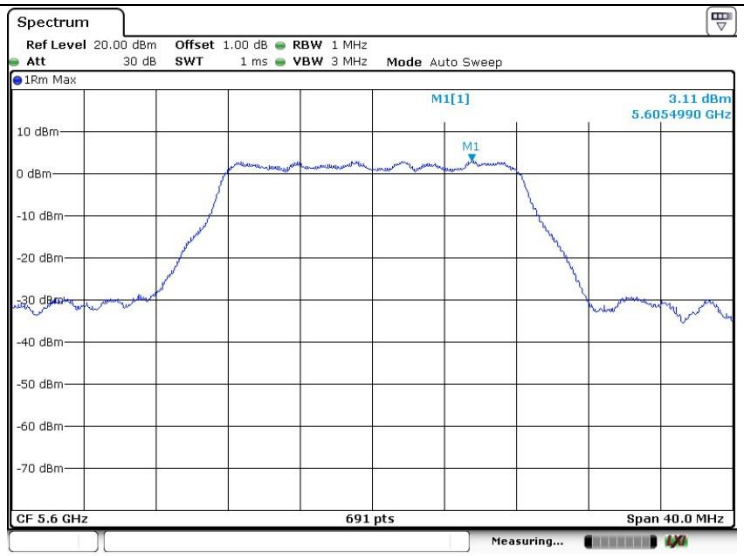

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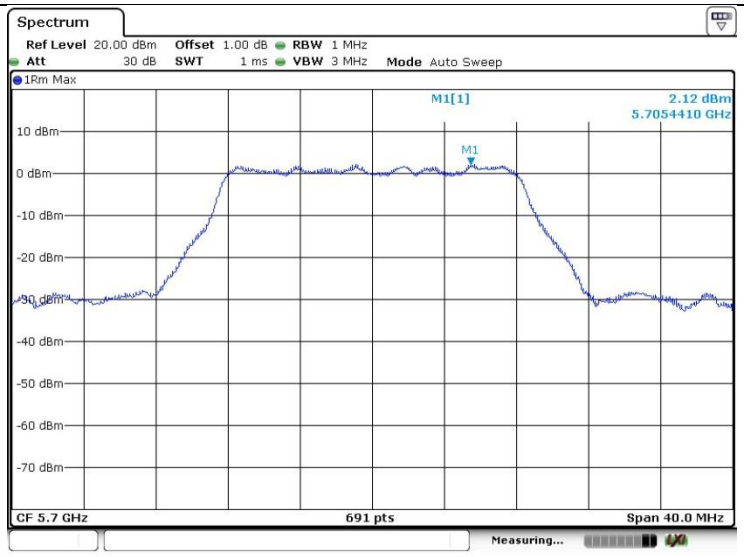
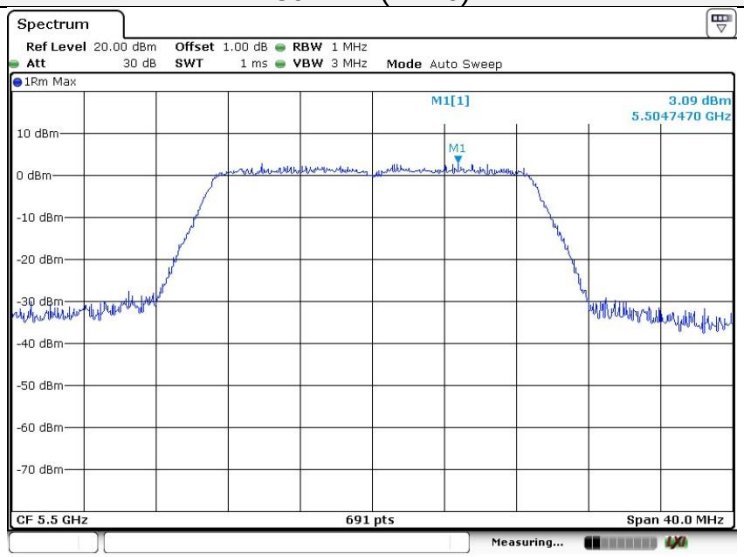
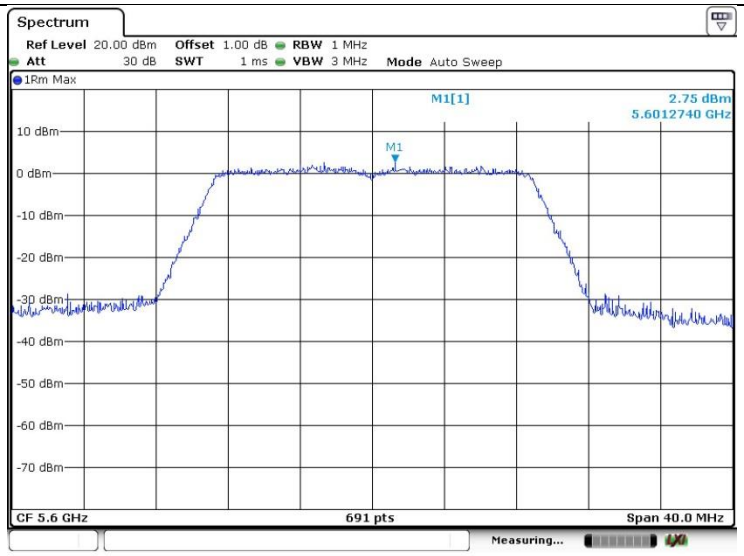


High

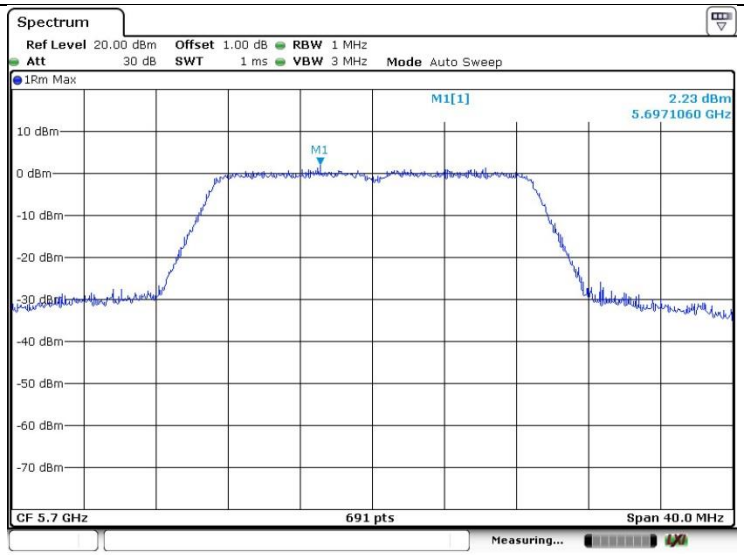
802.11n(HT20)



Low

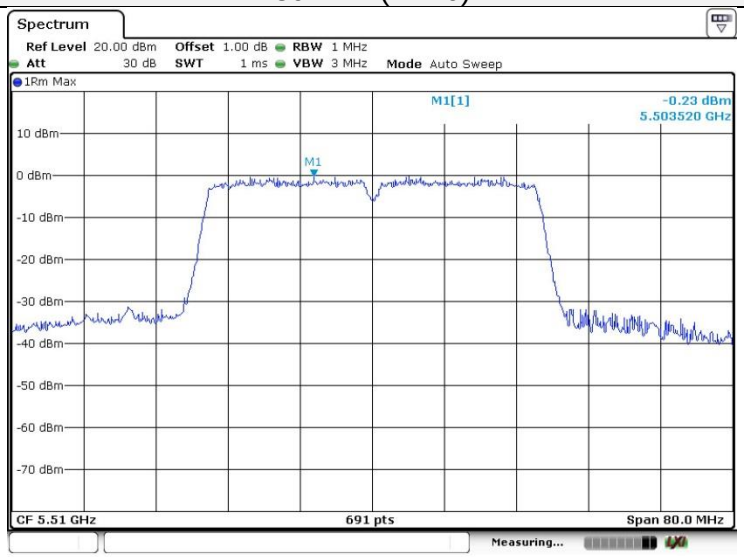


Mid



High

802.11n(HT40)



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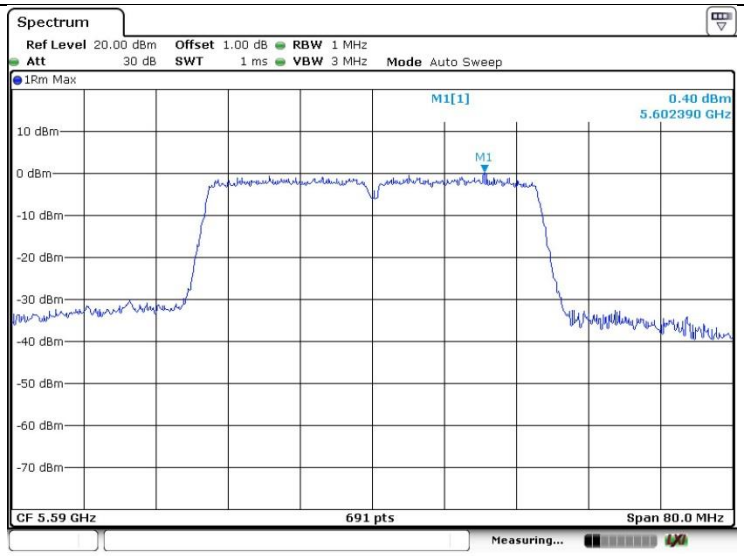
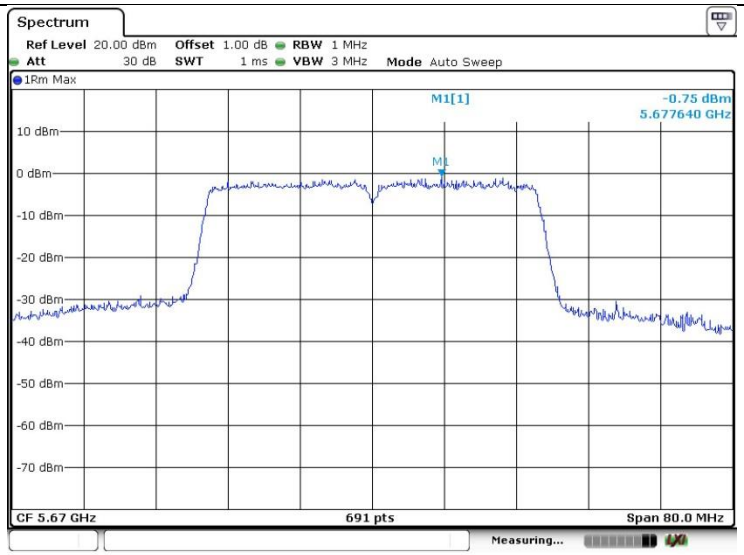
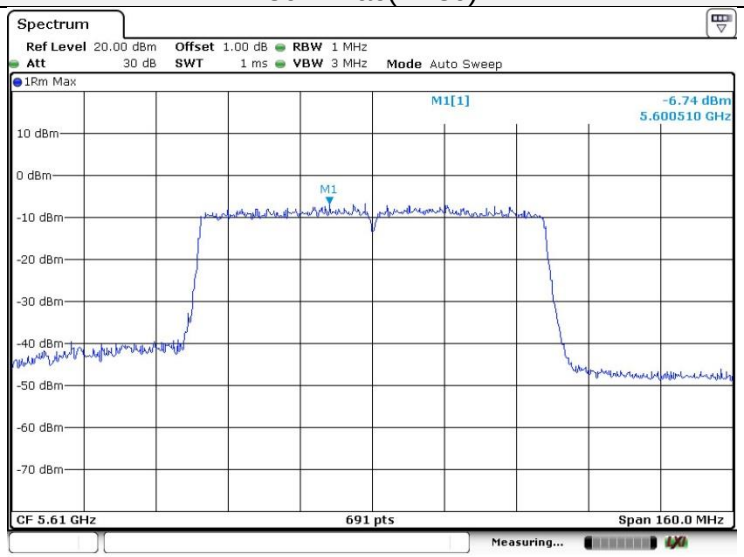
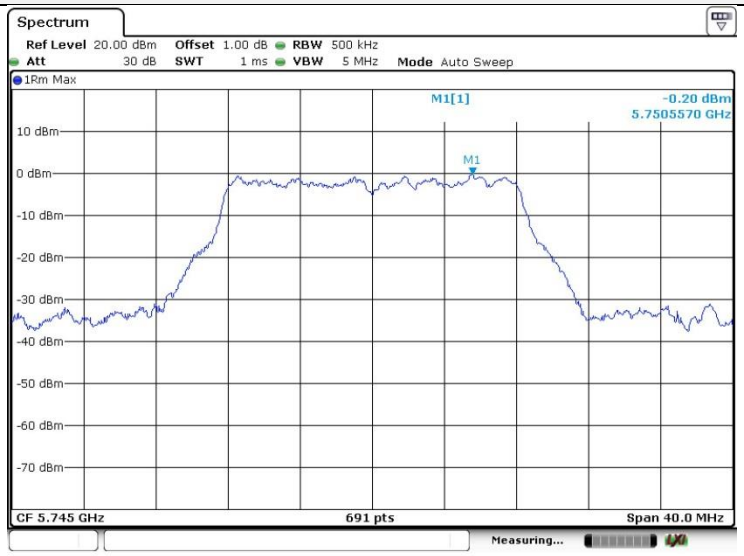
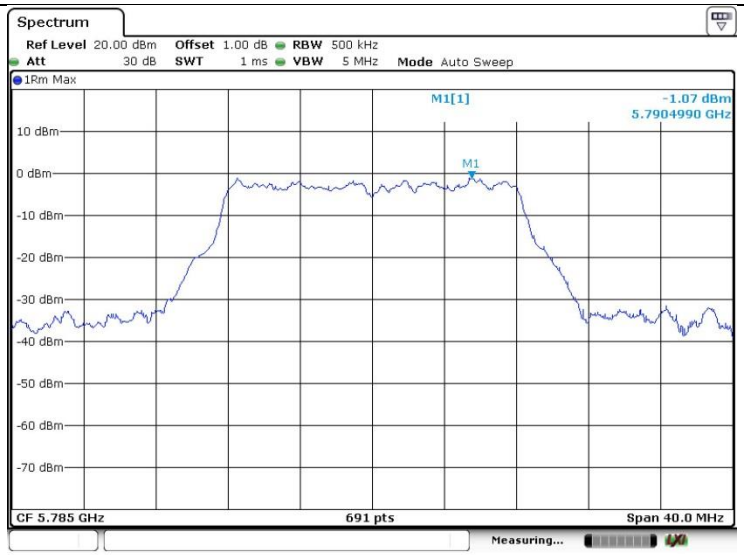
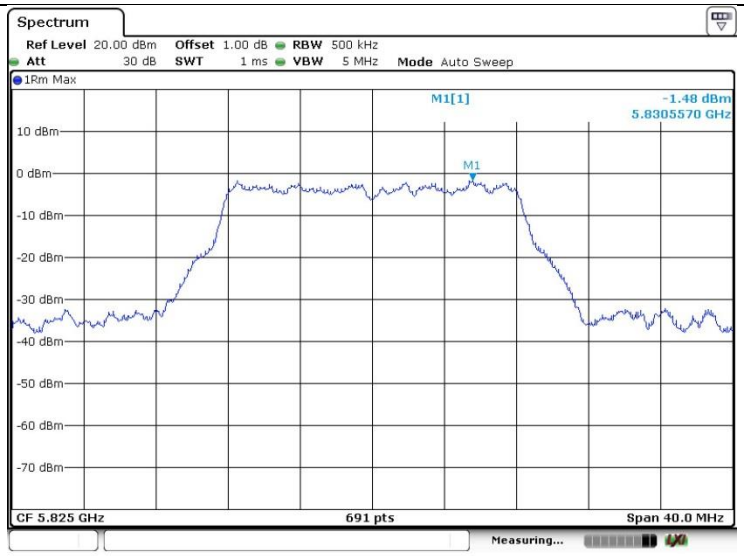


Mid

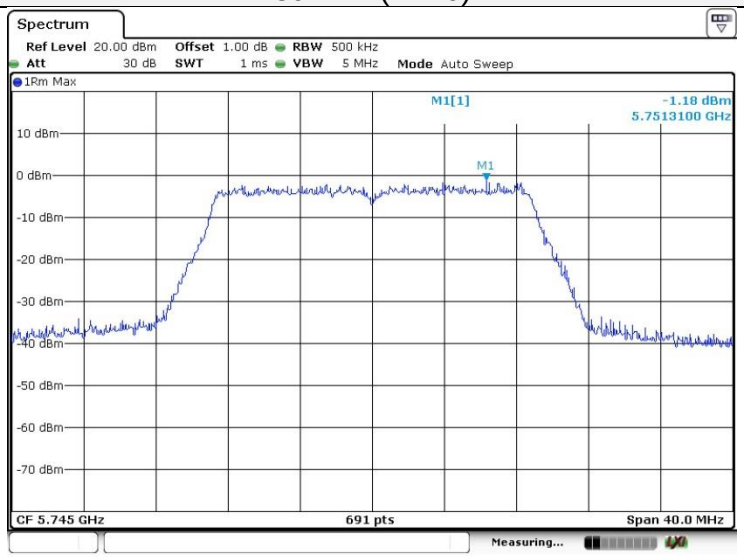


High

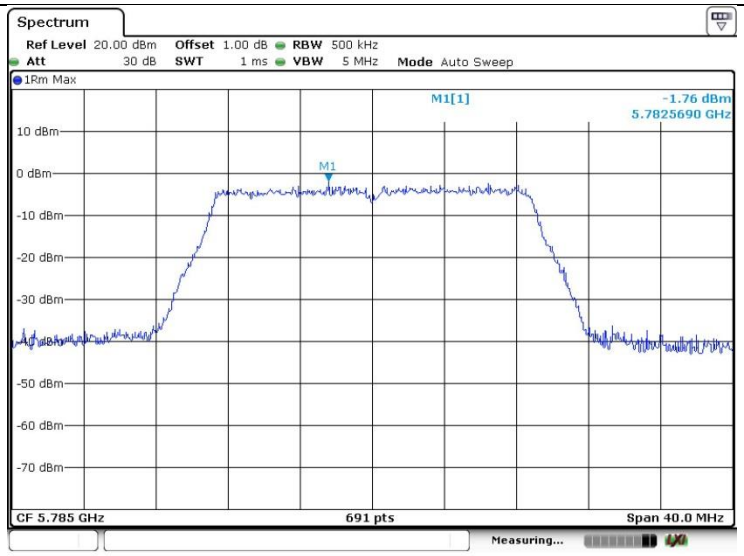
802.11ac(HT80)

Mid

Band IV
802.11a

Low

Mid

High

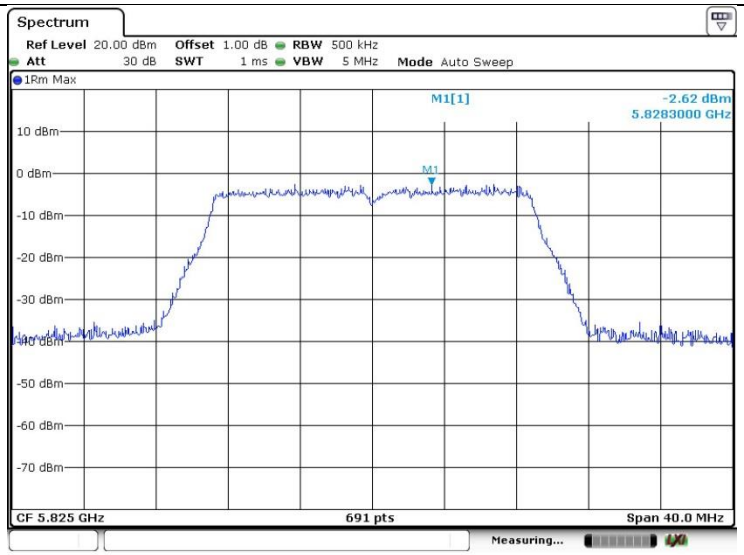
802.11n(HT20)



Low

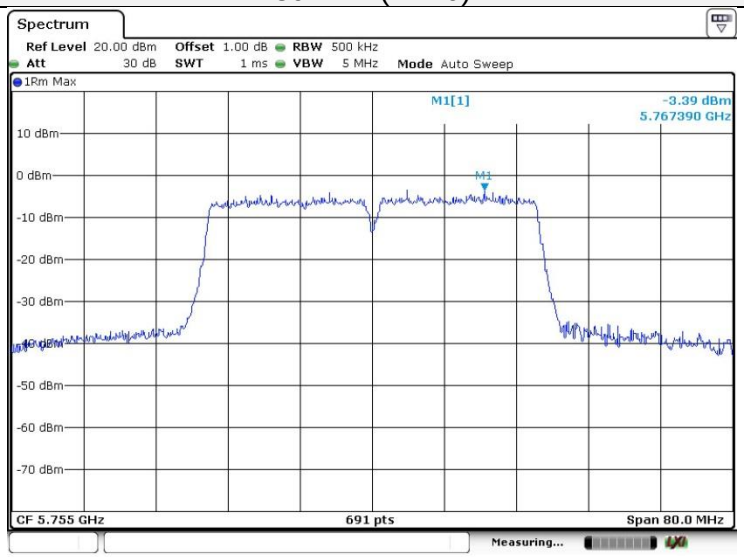


Mid

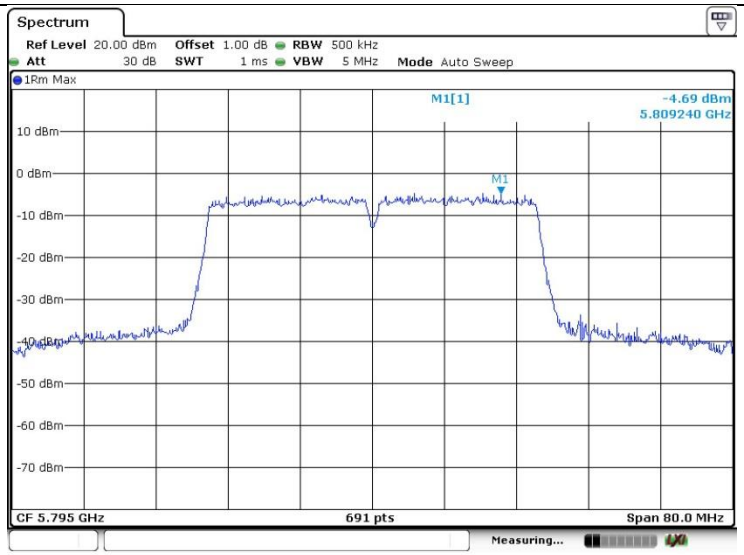


High

802.11n(HT40)

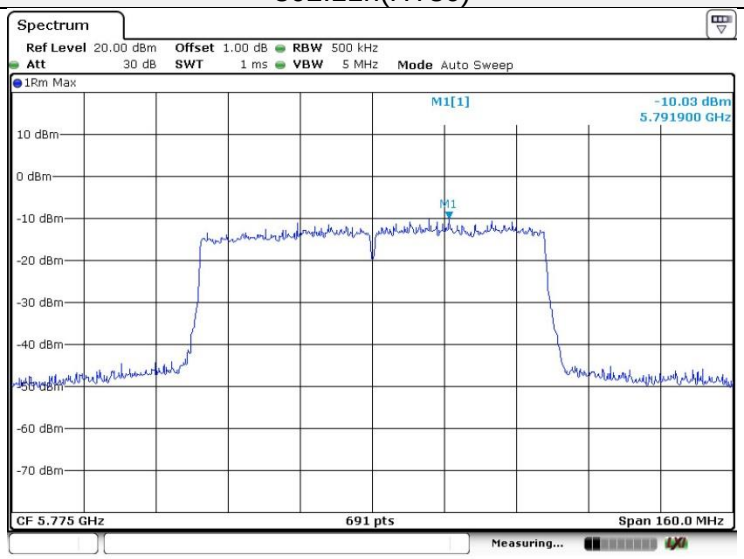


Low



High

802.11n(HT80)



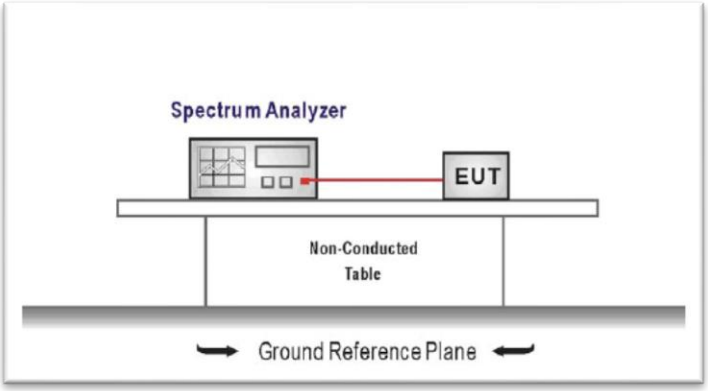
Mid

5.5. 6dB&26dB bandwidth

LIMIT

The bandwidth at 26dB down from the highest in-band spectral density is measured with a spectrum analyzer connected to the antenna terminal while the EUT is operating at its maximum duty cycle, at its maximum power control level, as defined in KDB 789033 D02 v01r02, and at the appropriate frequencies. The spectrum analyzer's bandwidth measurement function is configured to measure the 26dB bandwidth.

TEST CONFIGURATION



TEST PROCEDURE

According KDB 789033 D02 v01r02 – Section C
1. The signal analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to X = 26. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediate power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth
3. VBW > 3 x RBW
4. Detector = Peak
5. Trace mode = max hold

TEST RESULTS

	Type	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
Band I 5150-5250MHz	802.11a	Low	21.041	-	Pass
		Mid	20.996		
		High	20.996		
	802.11n(HT20)	Low	21.669	-	Pass
		Mid	21.534		
		High	21.534		
	802.11n(HT40)	Low	40.376	-	Pass
		High	40.014		
	802.11ac(HT80)	Mid	81.390	-	Pass

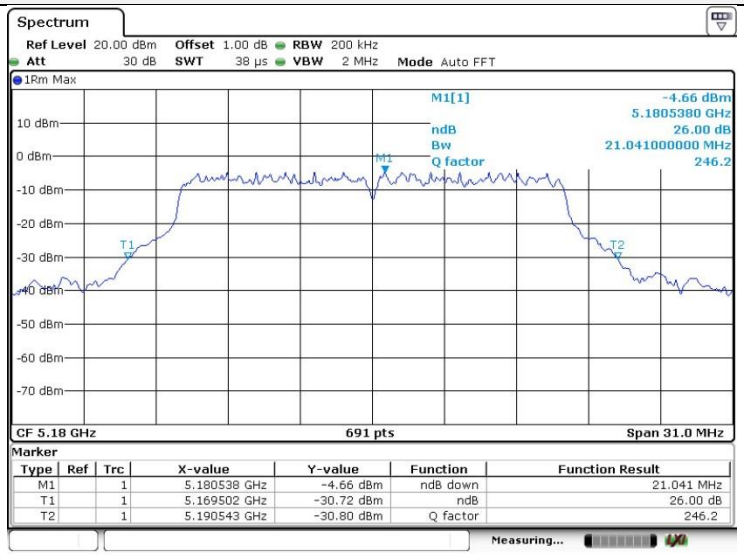
	Type	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
Band II 5250-5350MHz	802.11a	Low	20.951	-	Pass
		Mid	20.861		
		High	20.951		
	802.11n(HT20)	Low	21.489	-	Pass
		Mid	21.399		
		High	21.399		
	802.11n(HT40)	Low	40.087	-	Pass
		High	40.087		
	802.11ac(HT80)	Mid	81.780	-	Pass

	Type	Channel	26dB Bandwidth (MHz)	Limit (MHz)	Result
Band III 5470-5725MHz	802.11a	Low	20.906	-	Pass
		Mid	20.906		
		High	21.220		
	802.11n(HT20)	Low	21.579	-	Pass
		Mid	21.713		
		High	21.624		
	802.11n(HT40)	Low	40.087	-	Pass
		Mid	40.159		
		High	40.232		
	802.11ac(HT80)	Mid	82.040	-	Pass

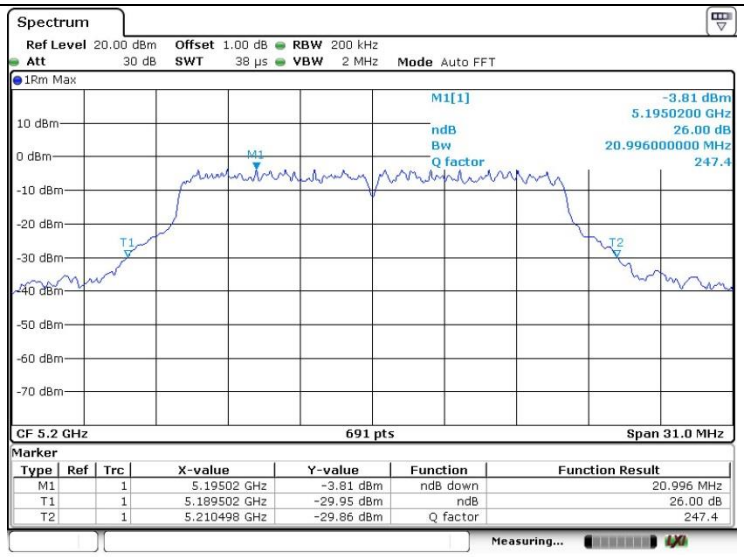
	Type	Channel	6dB Bandwidth (MHz)	Limit (MHz)	Result
Band IV 5725-5850MHz	802.11a	Low	16.4544	0.5	Pass
		Mid	16.4978		
		High	16.4544		
	802.11n(HT20)	Low	17.8000	0.5	Pass
		Mid	17.8000		
		High	17.8003		
	802.11n(HT40)	Low	36.5412	0.5	Pass
		High	36.5410		
	802.11ac(HT80)	Mid	76.3700	0.5	Pass

Test plot as follows:

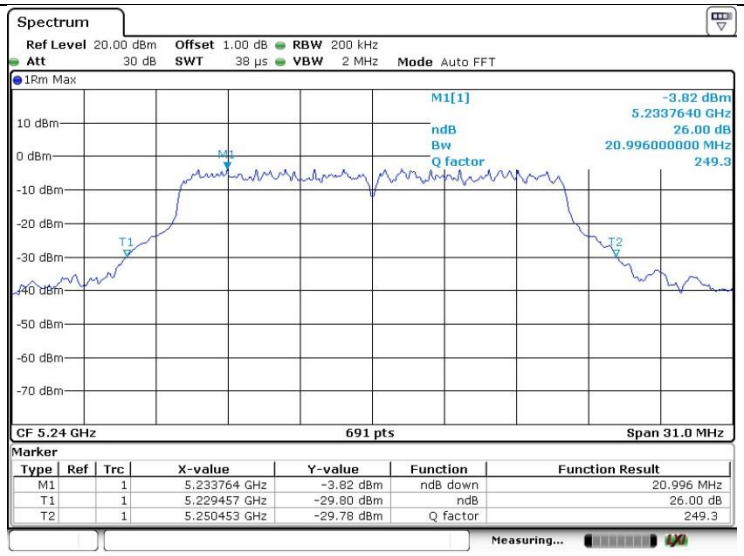
Band I
802.11a



Low

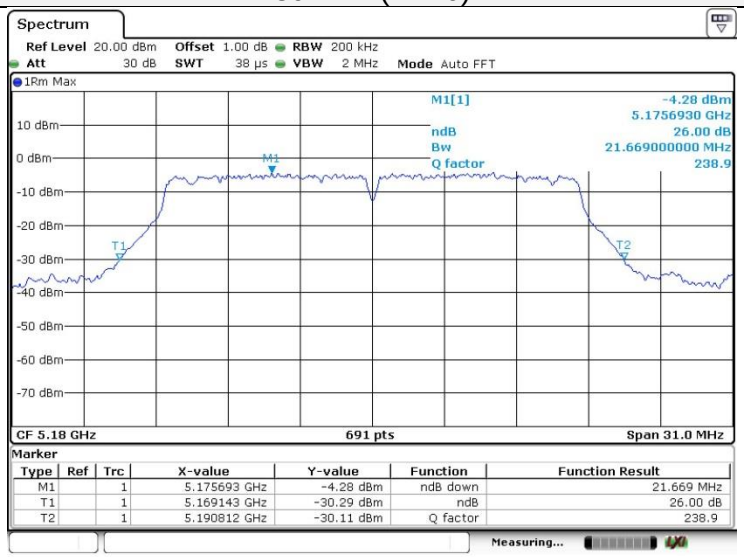


Mid

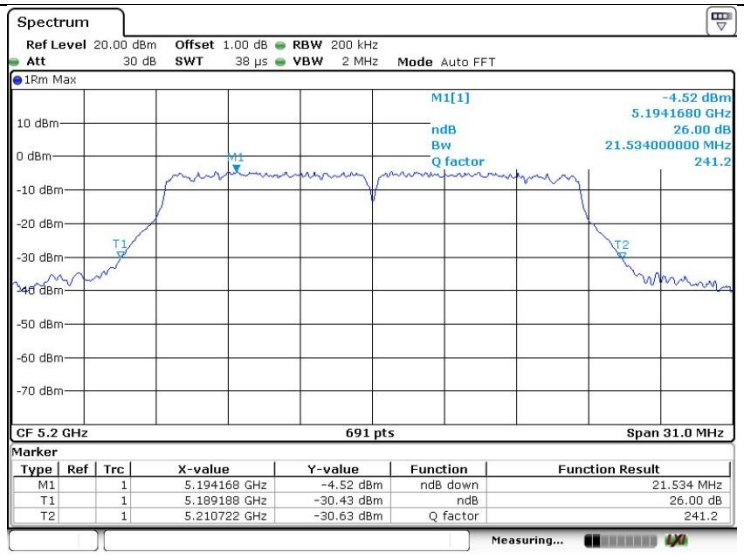


High

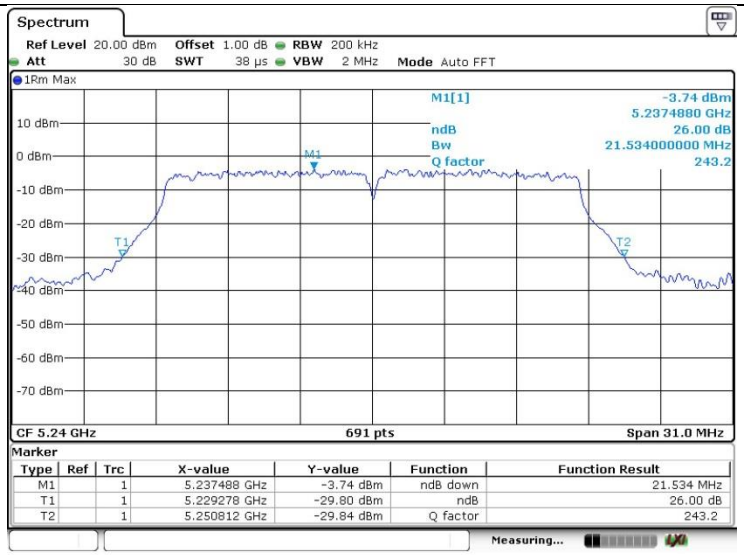
802.11n(HT20)



Low

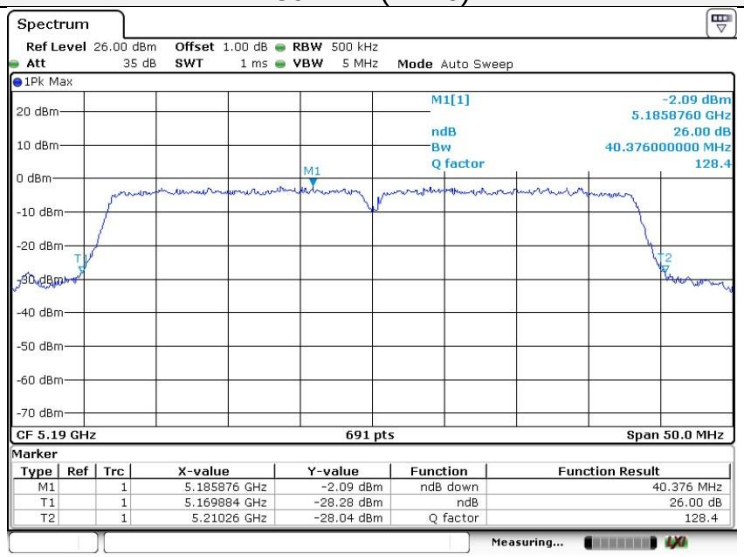


Mid

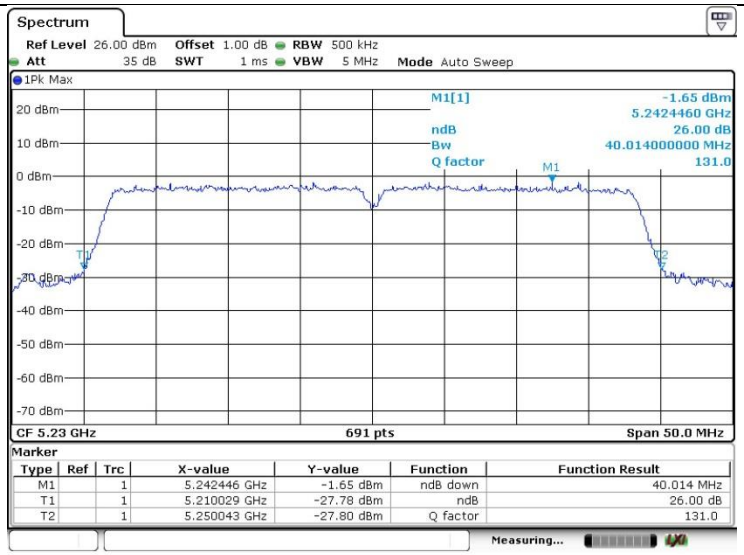


High

802.11n(HT40)

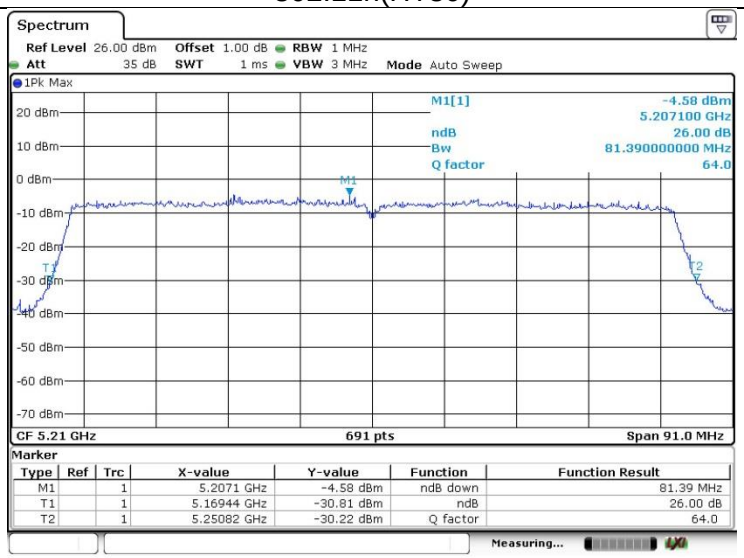


Low



High

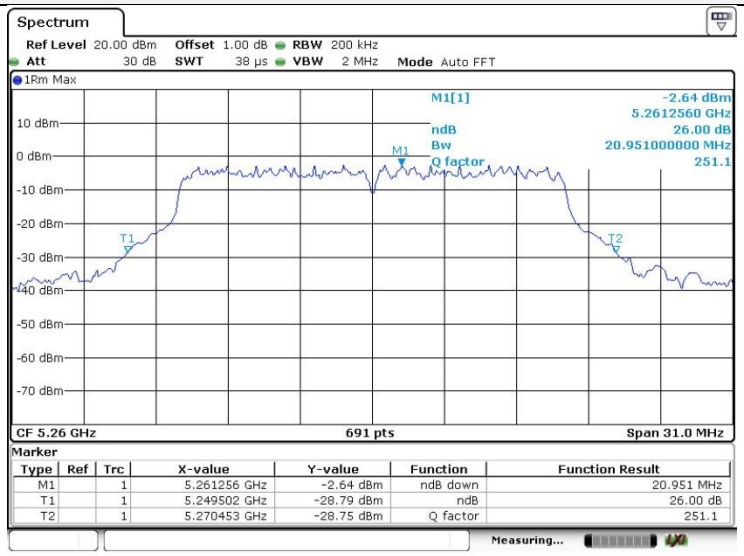
802.11n(HT80)



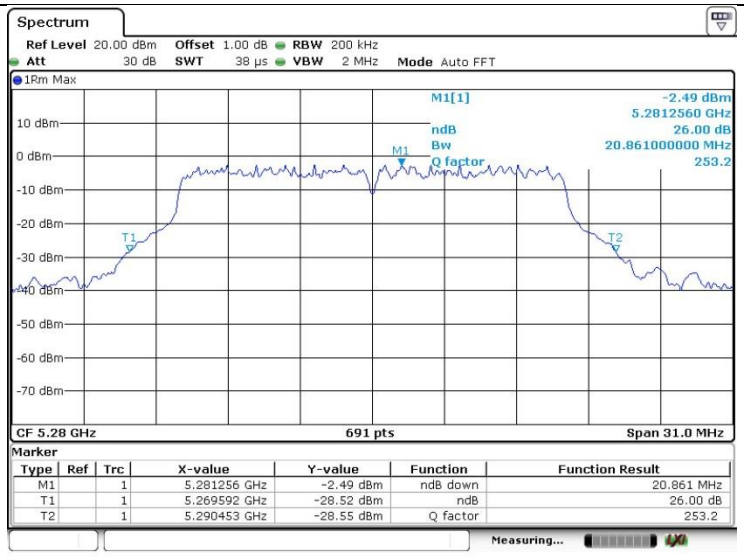
Mid

Band II

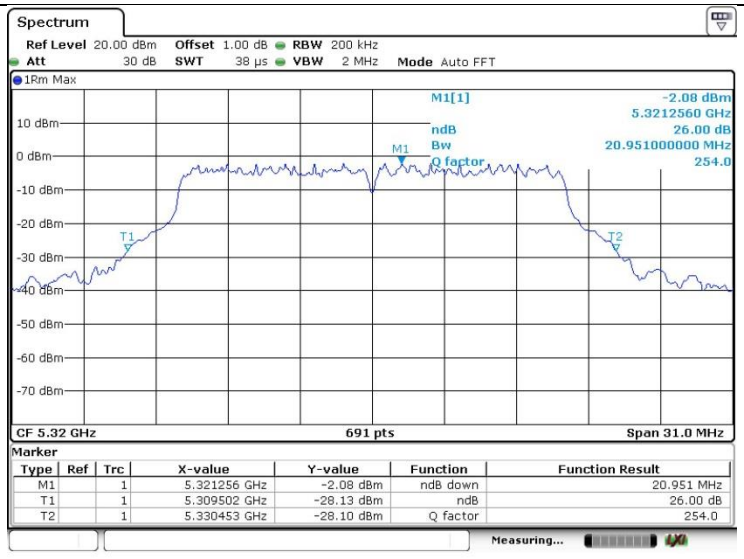
802.11a



Low



Mid



High