TEST REPORT

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1. Client

- Name : KAON Media Co.,Ltd.
- Address : Kaonmedia Building, 884-3, Seongnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea
- Date of Receipt : 2019-11-11

2. Use of Report : Certification

3. Name of Product and Model : AP Router / AR2146

4. Manufacturer and Country of Origin : KAON Media Co.,Ltd. / Korea

5. FCC ID : WQT-AP5000

6. Date of Test : 2019-12-04 to 2020-02-26

7. Test Standards : FCC Part 15 Subpart E, 15.407

8. Test Results : Refer to the test result in the test report

Affirmation	Tested by Name : Euijung Kim (Signature)	Technical Manager Name : Bobae Lee (Signature)

2020-02-27

KCTL Inc.

Report revision history

Date	Revision	Page No
2020-02-03	Initial report	-
2020-02-10	Updated	19~22, 137~140, 255~258
2020-02-19	Updated	360,361,365, 369,373
2020-02-26	Updated	10,11,12,19,21, 22,40,41, 79~133,137, 139,140,142, 143,198~252, 1046
2020-02-27	Updated	141

Note. The report No. KR20-SRF0030-C is superseded by the report No. KR20-SRF0030-D.

CONTENTS

1. General information

Client	:	KAON Media Co.,Ltd.
Address	:	Kaonmedia Building, 884-3, Seongnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea
Manufacturer	:	KAON Media Co.,Ltd.
Address	:	Kaonmedia Building, 884-3, Seongnam-daero, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea
Laboratory	:	KCTL Inc.
Address	:	65, Sinwon-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do, 16677, Korea
Accreditations	:	FCC Site Designation No: KR0040, FCC Site Registration No: 687132 VCCI Registration No. : R-20080, G-20078, C-20059, T-20056 Industry Canada Registration No. : 8035A KOLAS No.: KT231

2. Device information

Equipment under test	:	AP Router
Model	:	AR2146
Derivative model	:	EVO5000AP
Frequency range	:	2 412 ㎒ ~ 2 462 ㎒ (802.11b/g/n_HT20) 2 422 ㎒ ~ 2 452 ㎒ (802.11n_HT40) UNII-1: 5 180 ㎒ ~ 5 240 ㎒ (11a/n_HT20/ac_VHT20) UNII-1: 5 190 ㎒ ~ 5 230 ㎒ (11n_HT40/ac_VHT40) UNII-1: 5 210 ㎒ (11ac_VHT80) UNII-2A: 5 260 ㎒ ~ 5 320 ㎒ (11a/n_HT20/ac_VHT20) UNII-2A: 5 270 ㎒ ~ 5 310 ㎒ (11n_HT40/ac_VHT40) UNII-2A: 5 290 ㎒ (11ac_VHT80) UNII-2C: 5 500 ㎒ ~ 5 720 ㎒ (11a/n_HT20/ac_VHT20) UNII-2C: 5 510 ㎒ ~ 5 710 ㎒ (11n_HT40/ac_VHT40) UNII-2C: 5 530 ㎒ ~ 5 690 ㎒ (11ac_VHT80) UNII-3: 5 745 ㎒ ~ 5 825 ㎒ (11a/n_HT20/ac_VHT20) UNII-3: 5 755 ㎒ ~ 5 795 ㎒ (11n_HT40/ac_VHT40) UNII-3: 5 775 ㎒ (11ac_VHT80)
Modulation technique	:	DSSS (802.11b) OFDM (802.11a/g/n_HT20/ HT40/ac_VHT20/ VHT40/ VHT80)
Number of channels	:	11 ch (802.11b/g/n_HT20)_2.4 ㎓ Band 9 ch (802.11n_HT40)_2.4 ㎓ Band UNII-1: 4 ch (20 ㎒), 2 ch (40 ㎒), 1 ch (80 ㎒) UNII-2A: 4 ch (20 ㎒), 2 ch (40 ㎒), 1 ch (80 ㎒) UNII-2C: 12 ch (20 ㎒), 6 ch (40 ㎒), 3 ch (80 ㎒) UNII-3: 5 ch (20 ㎒), 2 ch (40 ㎒), 1 ch (80 ㎒)
Power source	:	DC 12 V
Antenna specification	:	PCB Antenna 2.4G 1.88 ㏈i UNII-1 1.98 ㏈i UNII-2A 1.97 ㏈i

		UNII-2C	1.94 dBi
		UNII-3	1.86 dBi
Software version	:	1.0.22	
Hardware version	:	1.0	
Operation temperature	:	22 ℃	

2.1. Accessory information

Equipment	Manufacturer	Model	Serial No.	FCC ID
AC Adapter	Chenzhou Frecom Electronics Co.,Ltd	F24L9-120200SPAU	N/A	N/A

2.2. Information about derivative model

The difference between basic model and derivative models is:

The basic and derivative model are electrically identical.
The derivative models is only for the simplified derivation based on buyer's model name.

2.3. Frequency/channel operations

This device contains the following capabilities:
2.4 ㎓ WIFI: WLAN 802.11b/g/n(HT20,HT40)
5 ㎓ WIFI: WLAN 802.11a/g/n(HT20,HT40)/ac(VHT20,VHT40,VHT80)

UNII-1		UNII-2A		UNII-2C		UNII-3	
Ch.	Frequency (㎒)	Ch.	Frequency (㎒)	Ch.	Frequency (㎒)	Ch.	Frequency (㎒)
36	5 180	52	5 260	100	5 500	149	5 745
44	5 220	60	5 300	120	5 600	157	5 785
48	5 240	64	5 320	140	5 700	165	5 825
				144	5 720		

Table 2.3.1. 802.11a/n/ac_HT20/VHT20 mode

UNII-1		UNII-2A		UNII-2C		UNII-3	
Ch.	Frequency (㎒)	Ch.	Frequency (㎒)	Ch.	Frequency (㎒)	Ch.	Frequency (㎒)
38	5 190	54	5 270	102	5 510	151	5 755
46	5 230	62	5 310	118	5 590	159	5 795
				134	5 670		
				142	5 710		

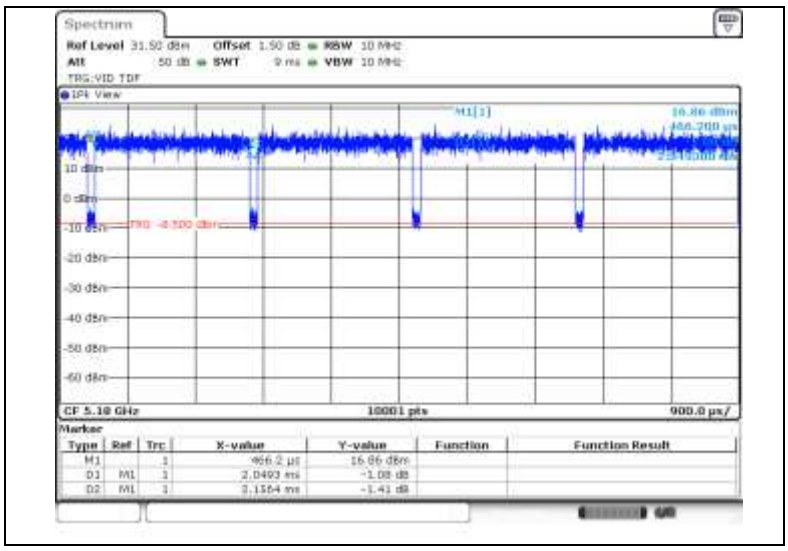
Table 2.3.2. 802.11n/ac_HT40/VHT40 mode

UNII-1		UNII-2A		UNII-2C		UNII-3	
Ch.	Frequency (㎒)	Ch.	Frequency (㎒)	Ch.	Frequency (㎒)	Ch.	Frequency (㎒)
42	5 210	58	5 290	106	5 530	155	5 775
				122	5 610		
				138	5 690		

Table 2.3.3 802.11ac_VHT80 mode

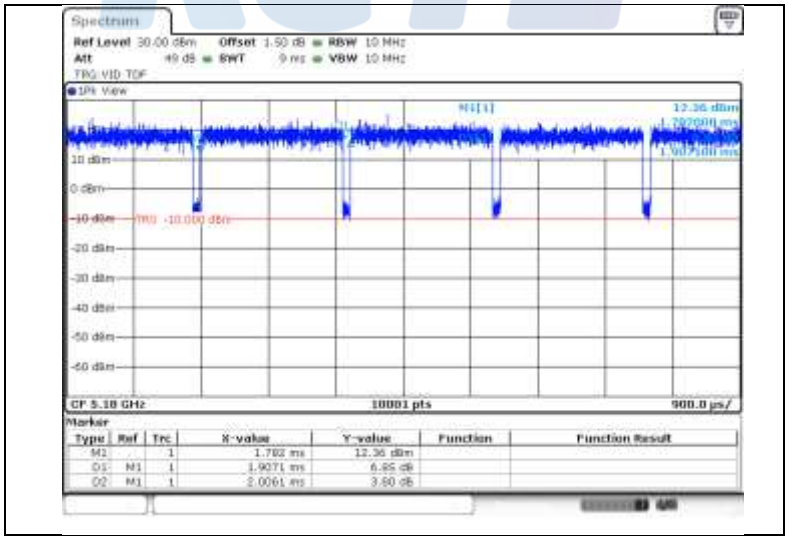
2.4. Duty Cycle Correction Factor

- 802.11a



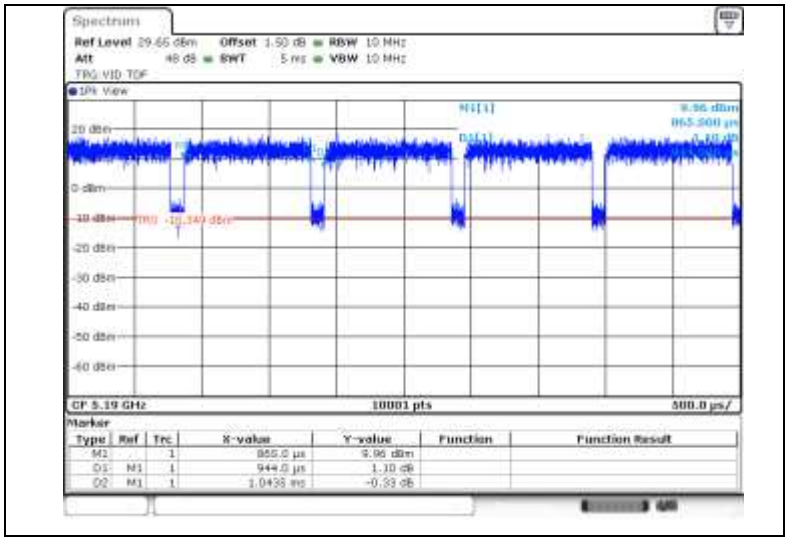
Note$_{1)}$: period: 2.156 4 ㎳, On time: 2.049 3 ㎳
Note$_{2)}$: DCCF = 10 log(1 / x) = 10 log(1/0.950) = 0.22 ㏈, x = 2.049 3/2.156 4 = 0.950 (95.0%)
Note$_{3)}$: 802.11a is a non-continuous transmission (duty cycle < 98%)

- 802.11n HT20



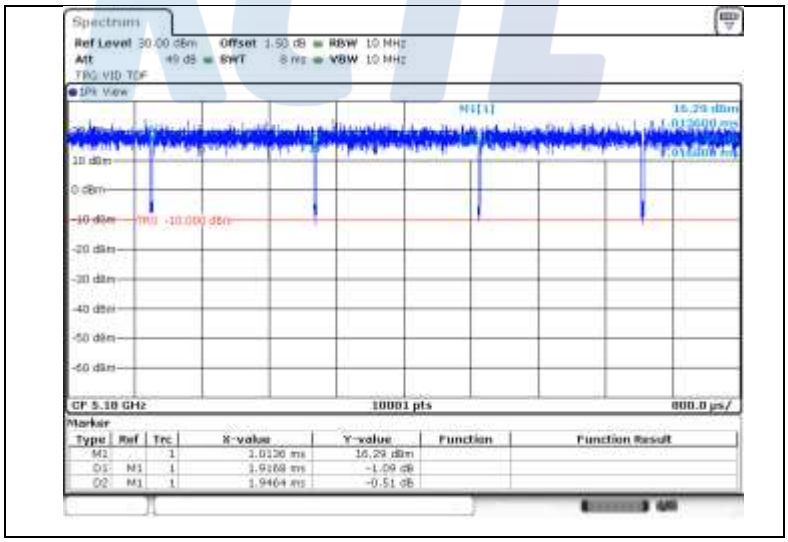
Note$_{1)}$: period: 2.006 1 ㎳, On time: 1.907 1 ㎳
Note$_{2)}$: DCCF = 10 log(1 / x) = 10 log(1/0.951) = 0.22 ㏈, x = 1.907 1/2.006 1 = 0.951(95.1%)
Note$_{3)}$: 802.11a HT20 is a non-continuous transmission (duty cycle < 98%)

- 802.11n HT40



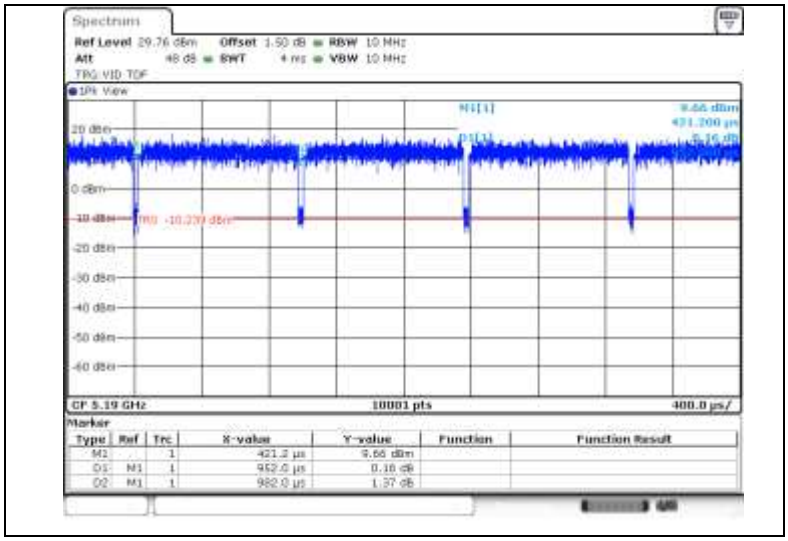
Note$_{1)}$: period: 1.043 5 ㎳, On time: 0.944 ㎳
Note$_{2)}$: DCCF = 10 log(1 / x) = 10 log(1/0.905) = 0.44 ㏈, x = 0.944/1.043 5 = 0.905 (90.5%)
Note$_{3)}$: 802.11a HT40 is a non-continuous transmission (duty cycle < 98%)

- 802.11ac VHT20



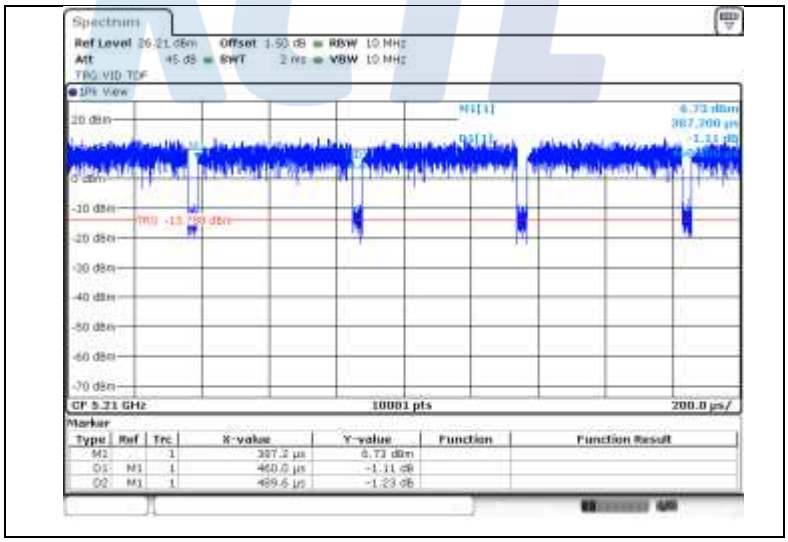
Note$_{1)}$: period: 1.946 4 ㎳, On time: 1.916 8 ㎳
Note$_{2)}$: DCCF = 10 log(1 / x) = 10 log(1/0.985) = 0.07 ㏈, x = 1.916 8/1.946 4 = 0.985 (98.5%)
Note$_{3)}$: 802.11ac VHT20 is a continuous transmission (duty cycle ≥ 98%)

- 802.11ac VHT40



Note$_{1)}$: period: 0.982 ㎳, On time: 0.952 ㎳
Note$_{2)}$: DCCF = 10 log(1 / x) = 10 log(1/0.969) = 0.13 ㏈, x = 0.952/0.982 = 0.969 (96.9 %)
Note$_{3)}$: 802.11ac VHT40 is a non-continuous transmission (duty cycle < 98 %)

- 802.11ac VHT80



Note$_{1)}$: period: 0.489 6 ㎳, On time: 0.460 ㎳
Note$_{2)}$: DCCF = 10 log(1 / x) = 10 log(1/0.940) = 0.27 ㏈, x = 0.460/0.489 6 = 0.940 (94.0 %)
Note$_{3)}$: 802.11ac VHT80 is a non-continuous transmission (duty cycle < 98 %)

2.5. Power level setup in software

Power level setup in software						
Test Mode	Channel	Sortware Setup				
		ANT 0	ANT 1	ANT 2	ANT 3	4TX MIMO
a	5 180 ㎒	72	82	81	81	71
	5 220 ㎒	72	90	90	90	73
	5 240 ㎒	72	90	90	90	75
	5 260 ㎒	75	90	90	90	66
	5 300 ㎒	65	86	90	88	66
	5 320 ㎒	69	80	84	82	66
	5 500 ㎒	70	72	72	68	68
	5 600 ㎒	76	90	86	90	66
	5 700 ㎒	85	86	81	88	66
	5 720 ㎒	86	86	86	86	66
	5 745 ㎒	84	90	90	90	84
	5 785 ㎒	86	90	90	90	88
	5 825 ㎒	89	90	90	90	90
n20	5 180 ㎒	72	80	82	80	71
	5 220 ㎒	72	90	90	90	73
	5 240 ㎒	72	90	90	90	73
	5 260 ㎒	73	90	90	90	66
	5 300 ㎒	70	90	90	89	66
	5 320 ㎒	69	80	82	83	66
	5 500 ㎒	70	71	71	69	68
	5 600 ㎒	74	90	90	90	66
	5 700 ㎒	85	85	78	87	66
	5 720 ㎒	85	86	86	86	66
	5 745 ㎒	84	90	90	90	86
	5 785 ㎒	87	90	90	90	88
	5 825 ㎒	89	90	90	90	89
n40	5 190 ㎒	68	58	63	63	53
	5 230 ㎒	86	86	86	86	88
	5 270 ㎒	82	86	86	86	76
	5 310 ㎒	70	63	62	62	58
	5 510 ㎒	68	68	67	67	63
	5 590 ㎒	81	82	82	82	80
	5 670 ㎒	82	82	82	82	79
	5 710 ㎒	82	82	82	82	79
	5 755 ㎒	86	86	86	86	86
	5 795 ㎒	86	86	86	86	86

ac20	5 180 ㎒	71	79	83	80	71
	5 220 ㎒	72	90	90	90	73
	5 240 ㎒	72	90	90	90	73
	5 260 ㎒	76	90	90	90	66
	5 300 ㎒	69	90	90	90	66
	5 320 ㎒	69	80	82	83	66
	5 500 ㎒	70	71	71	69	66
	5 600 ㎒	79	90	90	90	66
	5 700 ㎒	83	83	79	86	66
	5 720 ㎒	85	86	86	86	66
	5 745 ㎒	85	90	90	90	87
	5 785 ㎒	87	90	90	90	88
	5 825 ㎒	89	90	90	90	89
ac40	5 190 ㎒	68	59	63	63	53
	5 230 ㎒	86	86	86	86	86
	5 270 ㎒	81	86	86	86	76
	5 310 ㎒	70	62	62	62	58
	5 510 ㎒	71	68	68	68	63
	5 590 ㎒	82	82	82	82	80
	5 670 ㎒	82	82	82	82	79
	5 710 ㎒	82	82	82	82	79
	5 755 ㎒	86	86	86	86	86
	5 795 ㎒	86	86	86	86	86
ac80	5 210 ㎒	64	58	62	60	48
	5 290 ㎒	62	57	58	58	53
	5 530 ㎒	63	57	61	58	53
	5 610 ㎒	82	82	82	82	82
	5 690 ㎒	82	82	82	82	82
	5 775 ㎒	82	82	82	82	82

3. Antenna requirement

According to §15.203, §15.407

"An intentional radiator antenna shall be designed to ensure that no antenna other than that furnished by the responsible party can be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section."

- The transmitter has permanently attached Dipole Antenna.
- The E.U.T Complies with the requirement of §15.203, §15.407

3.1 Antenna information

Mode	SISO				CDD	MIMO
	ANT 0	ANT 1	ANT 2	ANT 3	ANT 0 + 1 + 2 + 3	ANT 0 + 1 + 2 + 3
802.11a	√	√	√	√	√	X
802.11n HT20	√	√	√	√	√	√
802.11n HT40	√	√	√	√	√	√
802.11ac VHT20	√	√	√	√	√	√
802.11ac VHT40	√	√	√	√	√	√
802.11ac VHT80	√	√	√	√	√	√

√ = Support, X = Not support

Note.

1. This device employs SISO and CDD, MIMO technology output power as ANT 0 and ANT 1 and ANT 2 and ANT 3.

3.2 Directional Gain Calculations

According to clause F), 2), d), (ii) of KDB 662911 D01 Multiple Transmitter Output, Directional gain may be calculated by using the formulas as below.

3.2.1. Directional Antenna Gain with equal gain

Band	ANT 0 Gain (dBi)	ANT 1 Gain (dBi)	ANT 2 Gain (dBi)	ANT 3 Gain (dBi)	PSD Directional Gain (dBi)	Power Directional Gain (dBi)
UNII 1	1.98	1.98	1.98	1.98	8.00	1.98
UNII 2A	1.97	1.97	1.97	1.97	7.99	1.97
UNII 2C	1.94	1.94	1.94	1.94	7.96	1.94
UNII 3	1.86	1.86	1.86	1.86	7.88	1.86

Note.

1. If all transmit signals are completely correlated, then

Directional gain = G_{ANT} + Array Gain.

- For PSD measurements on all devices Array gain = 10 log (N_{ANT}/ N_{SS}) dB
- For Power measurements on IEEE 802.11 devices Array gain = 0 dB For $N_{ANT} \leq 4$.

4. Summary of tests

FCC Part section(s)	Parameter	Test results
15.407(a)	Maximum conducted output power	Pass
15.407(a)	Maximum power spectral density	Pass
15.407(a)	26 dB bandwidth	Pass
15.407(e)	6 dB bandwidth	Pass
15.407(g)	Frequency stability	Pass
15.407(d), 15.205(a), 15.209(a)	Spurious emission	Pass
	Band-edge, restricted band	Pass
15.207(a)	Conducted emissions	Pass

Notes:

1. All modes of operation and data rates were investigated. The test results shown in the following sections represent the worst case emissions.
2. According to exploratory test no any obvious emission were detected from 9 ㎑ to 30 ㎒. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30 m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field based on KDB 414788.
3. The fundamental of the EUT was investigated in three orthogonal orientations X, Y and Z. It was determined that X orientation was worst-case orientation. Therefore, all final radiated testing was performed with the EUT in X orientation.
4. The test procedure(s) in this report were performed in accordance as following.
   - ANSI C63.10-2013
   - KDB 662911 D01 v02r01
   - KDB 789033 D02 v02r01
5. The EUT supports SISO and MIMO modes.
6. The worst-case data rates were:
   802.11a mode : 6Mbps
   802.11n/ac_HT20 mode : MCS0 / MCS0NSS1
   802.11n/ac_HT40 mode : MCS0 / MCS0NSS1
   802.11ac_VHT80 mode : MCS0 / MCS0NSS1

5. Measurement uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI C63.10-2013.

All measurement uncertainty values are shown with a coverage factor of k=2 to indicated a 95% level of confidence. The measurement data shown herein meets of exceeds the U_{CISPR} measurement uncertainty values specified in CISPR 16-4-2 and thus, can be compared directly to specified limits to determine compliance.

Parameter	Expanded uncertainty (±)	
Conducted RF power	1.76 dB	
Conducted spurious emissions	4.03 dB	
Radiated spurious emissions	9 kHz ~ 30 MHz:	2.28 dB
	30 MHz ~ 300 MHz	4.98 dB
	300 MHz ~ 1 000 MHz	5.14 dB
	1 GHz ~ 6 GHz	6.70 dB
	Above 6 GHz	6.60 dB
Conducted emissions	9 kHz ~ 150 kHz	3.66 dB
	150 kHz ~ 30 MHz	3.26 dB

6. Measurement results explanation example

The offset level is set in the spectrum analyzer to compensate the RF cable loss factor between EUT conducted output port and spectrum analyzer.
With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

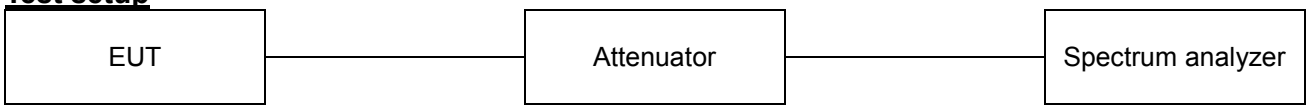
Frequency (㎒)	Factor(㏈)	Frequency (㎒)	Factor(㏈)
30	9.99	17 000	12.71
100	10.05	18 000	12.94
200	10.15	19 000	13.43
300	10.23	20 000	13.09
400	10.30	21 000	13.18
500	10.35	22 000	13.72
600	10.39	23 000	13.54
700	10.44	24 000	13.47
800	10.49	25 000	13.64
900	10.54	26 000	13.80
1 000	10.55	26 500	13.63
2 000	10.86	27 000	13.84
3 000	11.07	28 000	13.69
4 000	11.24	29 000	14.08
5 000	11.48	30 000	14.12
6 000	11.66	31 000	14.38
7 000	11.78	32 000	14.94
8 000	12.05	33 000	15.01
9 000	12.06	34 000	15.47
10 000	12.15	35 000	15.53
11 000	12.27	36 000	15.62
12 000	12.24	37 000	16.10
13 000	12.43	38 000	16.24
14 000	12.68	39 000	16.25
15 000	12.81	40 000	16.48
16 000	12.70	-	-

Note.
Offset(㏈) = RF cable loss(㏈) + Attenuator(㏈)

7. Test results

7.1. Maximum conducted output power

Test setup



Limit

According to §15.407(a)

Band	EUT category		Limit
UNII-1		Outdoor access point	1 W (30 dBm)
		Indoor access point	
		Fixed point-to-point access point	
	√	Client device	250 mW (23.98 dBm)
UNII-2A	√		250 mW or 11 dBm + 10logB*
UNII-2C	√		250 mW or 11 dBm + 10logB*
UNII-3	√		1 W (30 dBm)

Note.:

*FCC Limit B is the 26 dB emission bandwidth.

Test procedure

ANSI C63.10-2013-Section 12.3.3.2 and 14.2
KDB 789033 D02 v02r01 - Section E.2.d) or e)
KDB 662911 D01 v02r01 – Section E).1)

Test settings
Used test method is Section E.2.d)

◆ KDB 789033 D02 v02r01

Section E.2.d)
Method SA-2 (trace averaging across on and off times of the EUT transmissions, followed by duty cycle correction):

(i) Measure the duty cycle, x, of the transmitter output signal as described in II.B..
(ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
(iii) Set RBW = 1 ㎒
(iv) Set RBW ≥ 3 ㎒
(v) Number of points in sweep ≥ 2×span/RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
(vi) Sweep time = auto.
(vii) Detector = power averaging (rms), if available. Otherwise use sample detector mode.
(viii) Do not use sweep triggering. Allow the sweep to "free run."
(ix) Trace average at least 100 traces in power averaging (rms) mode; however, the number of traces to be averaged shall be increased above 100 as needed to ensure that the average accurately represents the true average over the on and off periods of the transmitter.
(x) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 ㎒ intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
(xi) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log(1/0,25) = 6 ㏈ if the duty cycle is 25%.

Section E.2.e)
Method SA-2 Alternative (power averaging(rms) detection with slow sweep with each spectrum bin averaging across on and off times of the EUT transmissions, followed by duty cycle correction):

(i) Measure the duty cycle, x, of the transmitter output signal as described in II.B..
(ii) Set span to encompass the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal.
(iii) Set RBW = 1 ㎒
(iv) Set RBW ≥ 3 ㎒
(v) Number of points in sweep ≥ 2×span/RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
(vi) Manually set sweep time ≥ 10 × (number of points in sweep) × (total on/off period of the transmitted signal).
(vii) Set detector = power averaging (rms)
(viii) Perform a single sweep.
(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement

function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 ㎒ intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

(x) Add 10 log (1/x), where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add 10 log(1/0,25) = 6 ㏈ if the duty cycle is 25%.

Section E.3.a)
Method PM (Measurement using an RF average power meter):

(xi) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five

(xii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in II

(xiii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

(xiv) Adjust the measurement in ㏈m by adding 10 log (1/x) where x is the duty cycle (e.g., 10 log (1/0.25) if the duty cycle is 25%).

Section E.3.b)
Method PM-G (Measurement using a gated RF average power meter):

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Test results
SISO

Test mode	Band	Frequency (MHz)	Measured output power									
			Reading ANT 0 (dBm)	Reading ANT 1 (dBm)	Reading ANT 2 (dBm)	Reading ANT 3 (dBm)	DCCF (dB)	Result ANT 0 (dBm)[1)]	Result ANT 1 (dBm)[1)]	Result ANT 2 (dBm)[1)]	Result ANT 3 (dBm)[1)]	Limit (dBm)
11a	UNII 1	5 180	15.16	17.46	16.74	17.13	0.22	15.38	17.68	16.96	17.35	30.00
		5 220	15.09	19.33	19.07	19.45		15.31	19.55	19.29	19.67	
		5 240	15.20	19.64	19.38	19.68		15.42	19.86	19.60	19.90	
	UNII 2A	5 260	16.03	19.87	18.18	19.52		16.25	20.09	18.40	19.74	23.98
		5 300	13.39	19.61	18.02	19.05		13.61	19.83	18.24	19.27	
		5 320	14.70	17.12	18.44	17.39		14.92	17.34	18.66	17.61	
	UNII 2C	5 500	15.06	14.98	15.60	12.75		15.28	15.20	15.82	12.97	23.98
		5 600	16.26	19.47	19.68	18.68		16.48	19.69	19.90	18.90	
		5 700	19.10	18.85	17.96	18.55		19.32	19.07	18.18	18.77	
	Straddle	5 720	18.75	18.06	18.55	17.63		18.97	18.28	18.77	17.85	22.93
	UNII 3	5 745	19.00	20.26	20.53	19.85		19.22	20.48	20.75	20.07	30.00
		5 785	19.38	20.06	20.26	19.49		19.60	20.28	20.48	19.71	
		5 825	19.87	20.06	20.26	19.36		20.09	20.28	20.48	19.58	
11n HT20	UNII 1	5 180	15.18	16.99	16.82	16.77	0.22	15.40	17.21	17.04	16.99	30.00
		5 220	15.19	19.39	18.88	19.32		15.41	19.61	19.10	19.54	
		5 240	15.23	19.63	19.25	19.70		15.45	19.85	19.47	19.92	
	UNII 2A	5 260	15.79	19.89	18.04	19.49		16.01	20.11	18.26	19.71	23.98
		5 300	14.71	19.95	18.20	19.28		14.93	20.17	18.42	19.50	
		5 320	14.66	17.23	18.01	17.66		14.88	17.45	18.23	17.88	
	UNII 2C	5 500	15.06	14.54	15.21	12.81		15.28	14.76	15.43	13.03	23.98
		5 600	15.46	19.40	19.82	18.73		15.68	19.62	20.04	18.95	
		5 700	18.92	18.50	17.13	18.27		19.14	18.72	17.35	18.49	
	Straddle	5 720	18.30	17.94	18.22	17.41		18.52	18.16	18.44	17.63	22.96
	UNII 3	5 745	19.15	20.15	20.54	19.98		19.37	20.37	20.76	20.20	30.00
		5 785	19.71	20.00	20.44	19.55		19.93	20.22	20.66	19.77	
		5 825	19.88	20.10	20.21	19.39		20.10	20.32	20.43	19.61	
11n HT40	UNII 1	5 190	13.68	11.14	12.86	12.35	0.44	14.12	11.58	13.30	12.79	30.00
		5 230	18.47	18.13	18.34	18.42		18.91	18.57	18.78	18.86	
	UNII 2A	5 270	17.80	18.70	17.15	18.16		18.24	19.14	17.59	18.60	23.98
		5 310	14.66	12.71	13.55	11.96		15.10	13.15	13.99	12.40	
	UNII 2C	5 510	14.00	13.47	13.93	12.06		14.44	13.91	14.37	12.50	23.98
		5 590	16.90	16.88	17.57	16.14		17.34	17.32	18.01	16.58	
		5 670	17.57	17.44	17.97	16.96		18.01	17.88	18.41	17.40	
	Straddle	5 710	17.54	17.03	17.73	16.77		17.98	17.47	18.17	17.21	
	UNII 3	5 755	19.35	19.28	19.32	18.50		19.79	19.72	19.76	18.94	30.00
		5 795	19.22	18.90	19.04	18.10		19.66	19.34	19.48	18.54	

11ac VHT20	UNII 1	5 180	15.07	16.86	17.27	17.19	-	15.07	16.86	17.27	17.19	30.00
		5 220	15.39	19.45	19.16	19.47		15.39	19.45	19.16	19.47	
		5 240	15.64	19.84	19.65	19.91		15.64	19.84	19.65	19.91	
	UNII 2A	5 260	16.49	20.06	18.24	19.64		16.49	20.06	18.24	19.64	23.98
		5 300	14.68	20.14	18.67	19.56		14.68	20.14	18.67	19.56	
		5 320	14.67	17.49	18.25	17.84		14.67	17.49	18.25	17.84	
	UNII 2C	5 500	15.07	14.69	15.35	13.12		15.07	14.69	15.35	13.12	23.98
		5 600	17.05	19.75	19.89	18.99		17.05	19.75	19.89	18.99	
		5 700	18.44	18.20	17.46	18.43		18.44	18.20	17.46	18.43	
	Straddle	5 720	18.13	18.21	18.55	17.60		18.13	18.21	18.55	17.60	22.98
	UNII 3	5 745	19.30	20.26	20.71	19.94		19.30	20.26	20.71	19.94	30.00
		5 785	19.80	20.14	20.54	19.61		19.80	20.14	20.54	19.61	
		5 825	19.93	20.26	20.27	19.63		19.93	20.26	20.27	19.63	
11ac VHT40	UNII 1	5 190	13.90	11.62	13.21	12.50	0.13	14.03	11.75	13.34	12.63	30.00
		5 230	18.78	18.52	18.64	18.61		18.91	18.65	18.77	18.74	
	UNII 2A	5 270	17.71	18.85	17.56	18.46		17.84	18.98	17.69	18.59	30.00
		5 310	14.75	12.55	13.80	12.20		14.88	12.68	13.93	12.33	
	UNII 2C	5 510	15.03	13.60	14.46	12.54		15.16	13.73	14.59	12.67	23.98
		5 590	17.29	17.07	17.90	16.50		17.42	17.20	18.03	16.63	
		5 670	17.85	17.54	18.22	17.36		17.98	17.67	18.35	17.49	
	Straddle	5 710	17.43	17.13	17.65	16.86		17.56	17.26	17.78	16.99	
	UNII 3	5 755	19.53	19.36	19.56	18.23		19.66	19.49	19.69	18.36	30.00
		5 795	19.36	19.13	19.16	17.95		19.49	19.26	19.29	18.08	
11ac VHT80	UNII 1	5 210	13.11	11.81	12.13	12.39	0.27	13.38	12.08	12.40	12.66	30.00
	UNII 2A	5 290	12.79	11.36	11.58	11.45		13.06	11.63	11.85	11.72	23.98
	UNII 2C	5 530	12.96	10.85	12.00	10.69		13.23	11.12	12.27	10.96	23.98
		5 610	17.75	17.58	17.63	16.97		18.02	17.85	17.90	17.24	
	Straddle	5 690	18.07	17.39	17.66	17.11		18.34	17.66	17.93	17.38	
	UNII 3	5 775	18.64	18.22	18.19	17.39		18.91	18.49	18.46	17.66	30.00

Note.
1. Result(dBm) = Reading (dBm) + Duty Factor (dB)

4TX MIMO

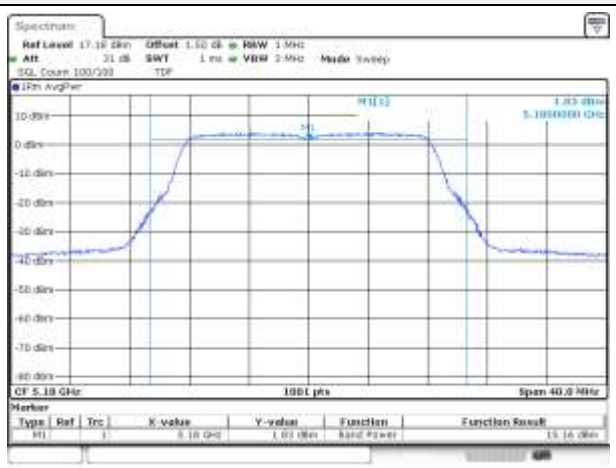
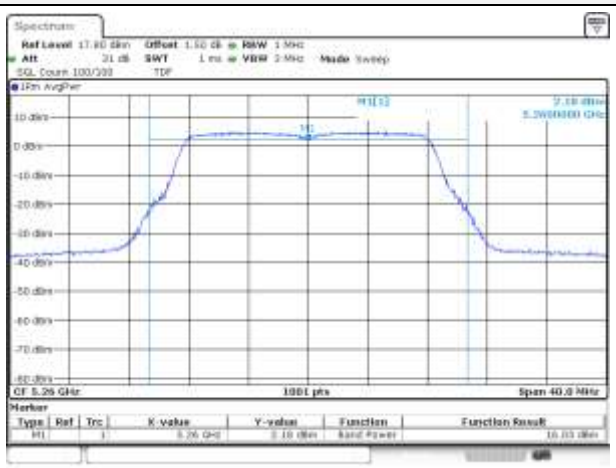
Test mode	Band	Frequency (MHz)	Measured output power						
			Reading ANT 0 (dBm)	Reading ANT 1 (dBm)	Reading ANT 2 (dBm)	Reading ANT 3 (dBm)	DCCF (dB)	Result 4TX MIMO (dBm)[1)]	Limit (dBm)
11a	UNII 1	5 180	15.01	14.47	14.11	14.39	0.22	20.75	30.00
		5 220	15.08	14.58	14.25	15.02		20.99	
		5 240	15.38	15.41	15.05	15.73		21.64	
	UNII 2A	5 260	13.30	13.65	13.13	12.87		19.49	23.98
		5 300	13.45	13.35	13.49	13.22		19.62	
		5 320	13.55	13.10	13.44	12.97		19.51	
	UNII 2C	5 500	13.33	13.06	13.71	12.17		19.34	23.98
		5 600	13.13	13.21	13.31	12.76		19.35	
		5 700	13.75	12.98	13.41	12.83		19.50	
	Straddle	5 720	12.65	12.54	12.67	11.68		18.65	22.90
	UNII 3	5 745	18.52	18.22	18.34	17.81		24.47	30.00
		5 785	19.39	18.78	19.10	18.38		25.17	
		5 825	19.27	19.24	19.53	18.86		25.47	
11n HT20	UNII 1	5 180	14.33	14.50	13.90	14.19	0.22	20.48	30.00
		5 220	14.76	14.81	14.12	14.73		20.85	
		5 240	14.85	14.85	14.56	14.96		21.05	
	UNII 2A	5 260	13.82	13.69	13.63	13.46		19.89	23.98
		5 300	13.68	13.53	13.65	13.30		19.78	
		5 320	13.59	13.50	13.37	12.95		19.60	
	UNII 2C	5 500	13.36	12.75	13.45	12.08		19.18	23.98
		5 600	13.34	13.43	13.82	13.31		19.72	
		5 700	13.54	12.96	13.49	12.87		19.47	
	Straddle	5 720	12.41	12.35	12.66	11.28		18.45	22.96
	UNII 3	5 745	18.37	18.60	18.84	18.03		24.71	30.00
		5 785	19.06	18.81	19.17	18.23		25.07	
		5 825	18.93	18.97	19.19	18.46		25.14	
11n HT40	UNII 1	5 190	8.70	9.53	9.67	9.57	0.44	15.84	30.00
		5 230	17.87	17.74	17.21	18.03		24.18	
	UNII 2A	5 270	16.40	16.05	16.28	16.92		22.88	23.98
		5 310	10.61	10.28	11.47	10.97		17.31	
	UNII 2C	5 510	12.08	11.28	12.28	10.82		18.11	23.98
		5 590	16.42	15.61	16.41	15.81		22.53	
		5 670	16.59	16.18	16.70	16.18		22.87	
	Straddle	5 710	16.17	15.62	16.26	15.78		22.42	
	UNII 3	5 755	18.47	18.56	18.69	18.36		24.98	30.00
		5 795	18.26	18.48	18.32	18.01		24.73	

11ac VHT20	UNII 1	5 180	14.57	14.48	14.14	14.38	-	20.42	30.00
		5 220	14.93	15.03	14.46	14.87		20.85	
		5 240	15.04	14.90	14.99	14.89		20.98	
	UNII 2A	5 260	13.81	13.81	14.20	14.00		19.98	23.98
		5 300	13.84	13.61	14.12	13.56		19.81	
		5 320	13.90	13.58	13.95	13.40		19.73	
	UNII 2C	5 500	13.71	12.83	13.89	12.46		19.28	23.98
		5 600	13.82	13.39	13.74	13.04		19.53	
		5 700	13.60	13.52	13.76	12.95		19.49	
	Straddle	5 720	12.44	12.32	12.44	11.42		18.20	22.97
	UNII 3	5 745	19.21	19.17	19.15	18.54		25.05	30.00
		5 785	19.31	19.21	19.31	18.43		25.10	
		5 825	19.84	19.45	19.48	18.71		25.41	
11ac VHT40	UNII 1	5 190	8.93	9.53	10.05	9.54	0.13	15.69	30.00
		5 230	18.02	17.80	17.73	18.46		24.17	
	UNII 2A	5 270	16.78	16.08	16.76	17.05		22.83	30.00
		5 310	10.67	10.68	11.67	11.34		17.27	
	UNII 2C	5 510	11.92	11.52	12.39	11.39		17.98	23.98
		5 590	16.33	16.03	16.57	15.91		22.37	
		5 670	17.11	16.32	16.58	16.52		22.79	
	Straddle	5 710	16.29	15.93	16.13	16.25		22.63	
	UNII 3	5 755	19.05	18.89	18.92	18.72		25.05	30.00
		5 795	18.79	18.47	18.57	18.30		24.69	
11ac VHT80	UNII 1	5 210	7.97	8.62	8.12	10.23	0.27	15.12	30.00
	UNII 2A	5 290	10.29	9.93	10.05	10.70		16.54	23.98
	UNII 2C	5 530	10.43	9.24	9.78	9.62		16.08	23.98
		5 610	17.37	17.01	17.25	16.85		23.42	
	Straddle	5 690	17.69	17.25	17.38	16.71		23.56	
	UNII 3	5 775	18.12	18.05	17.83	17.70		24.22	30.00

Note.

1. Result(dBm) = 10log($10^{(ANT\ 0/10)}$ + $10^{(ANT\ 1/10)}$ + $10^{(ANT\ 2/10)}$ + $10^{(ANT\ 3/10)}$) + Duty Factor (dB)

SISO ANT 0

UNII-1 / 802.11a / 5 180 ㎒	UNII-2A / 802.11a / 5 260 ㎒
	
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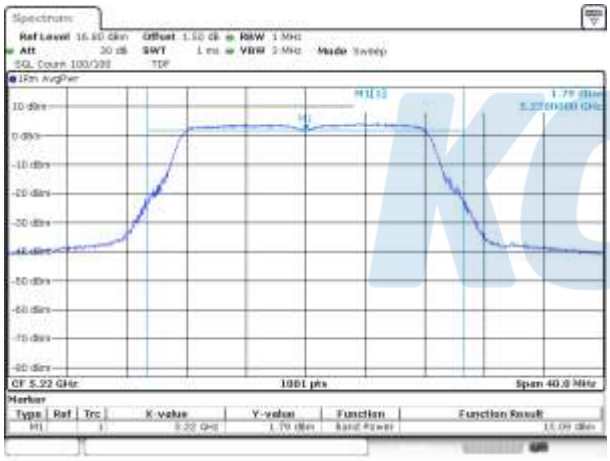	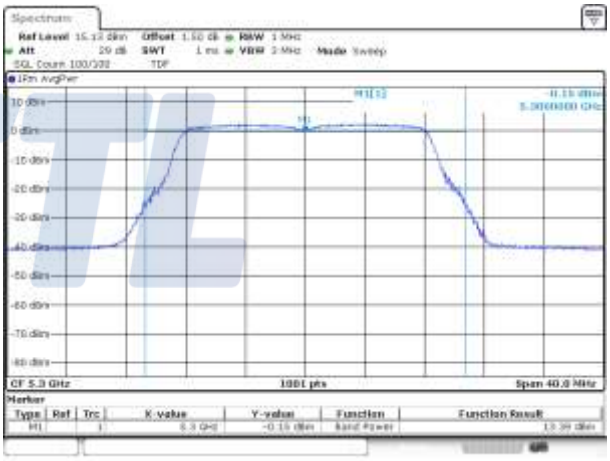
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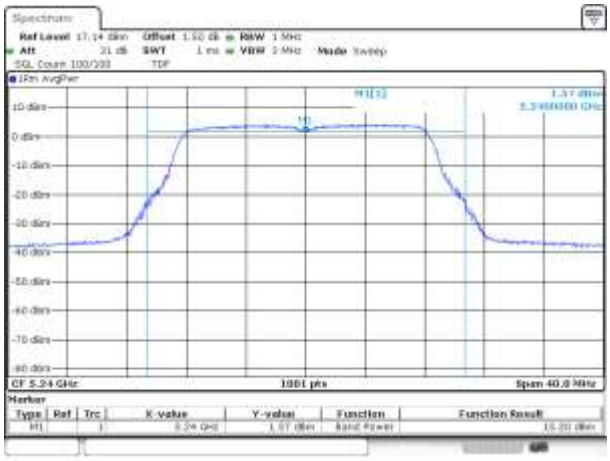	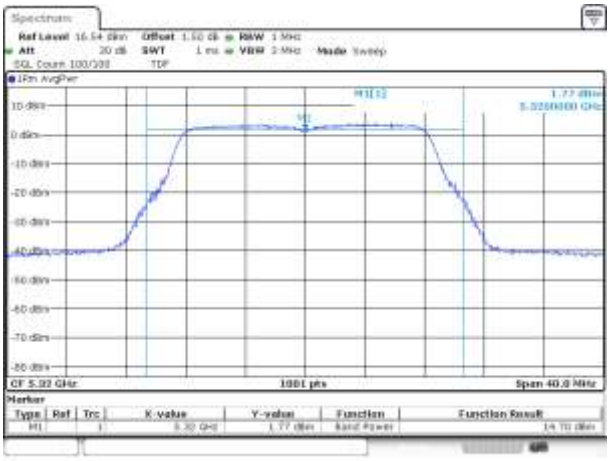

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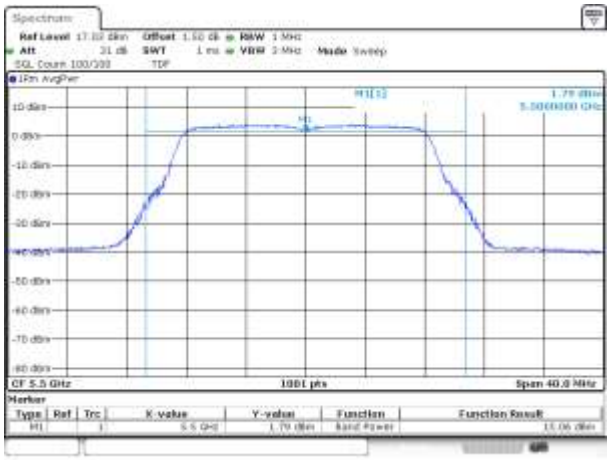	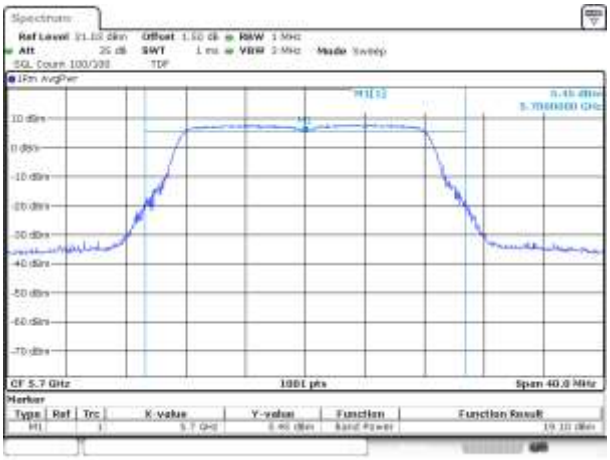
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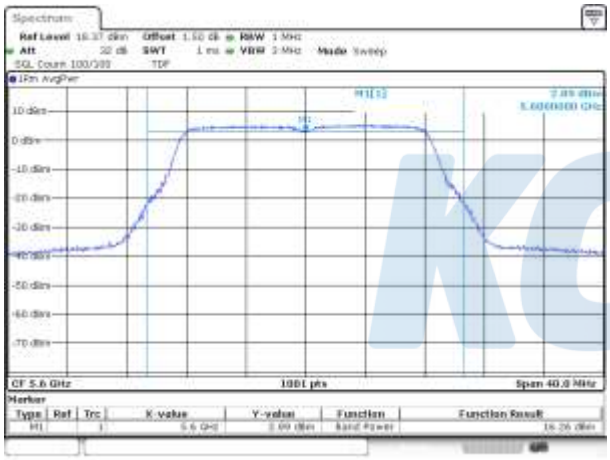	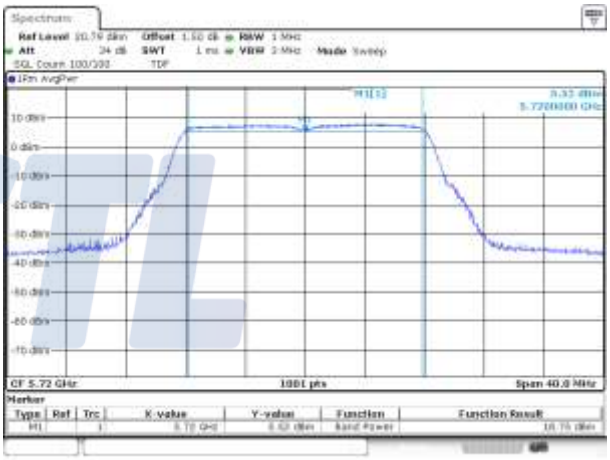

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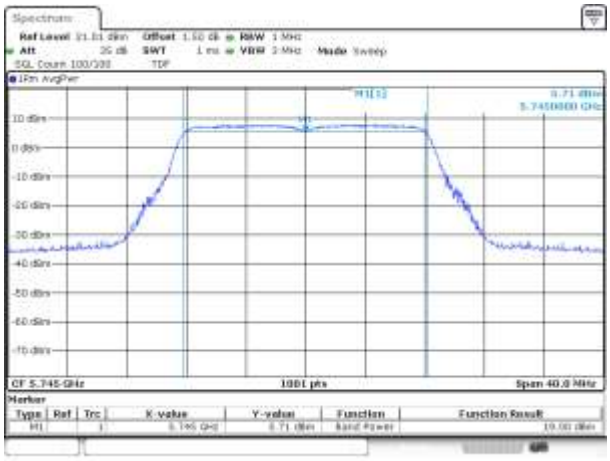	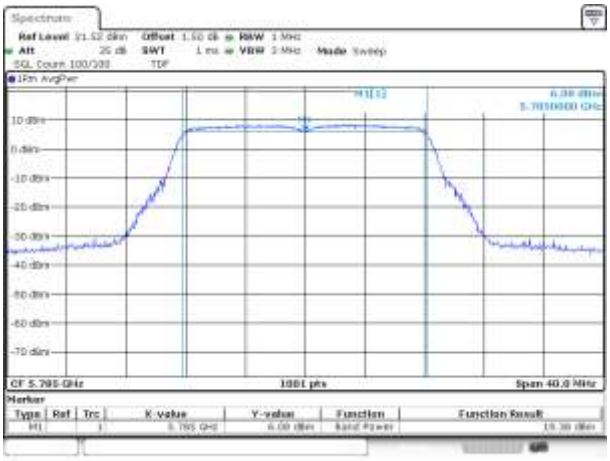
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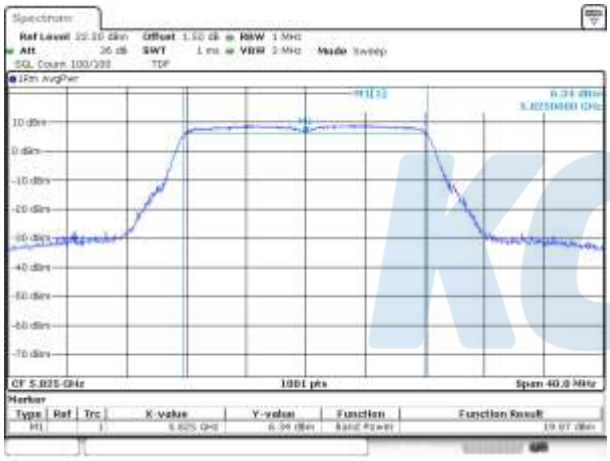	Blank

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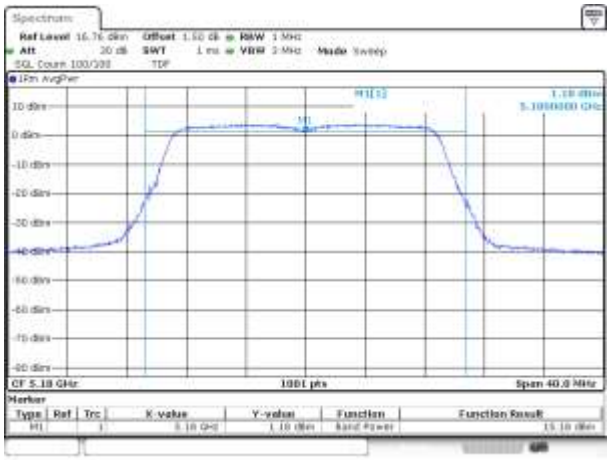	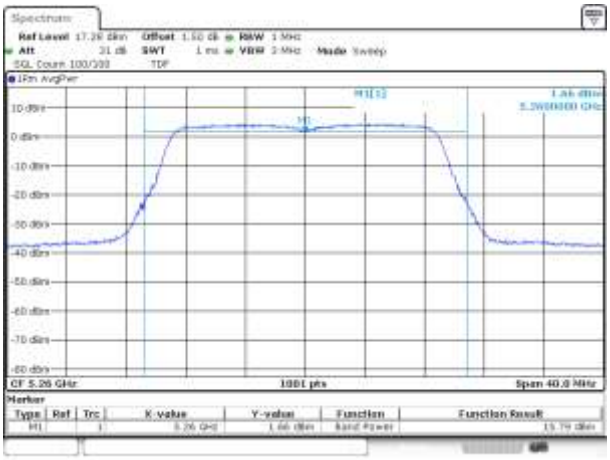
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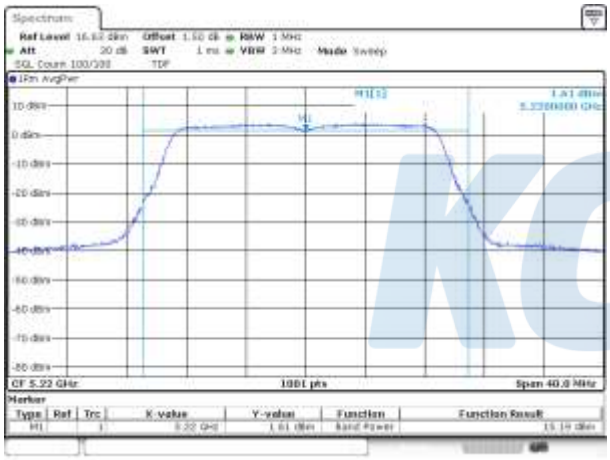	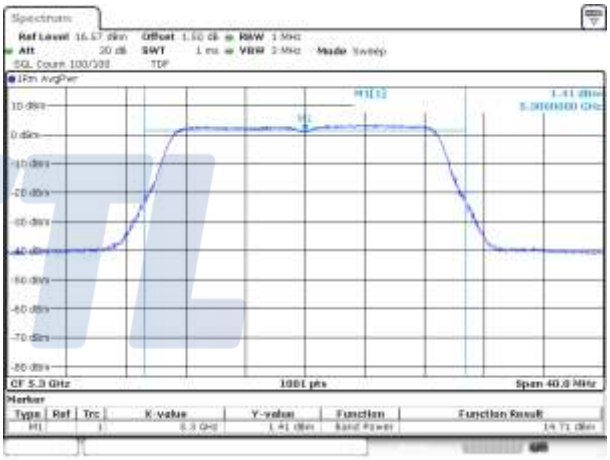
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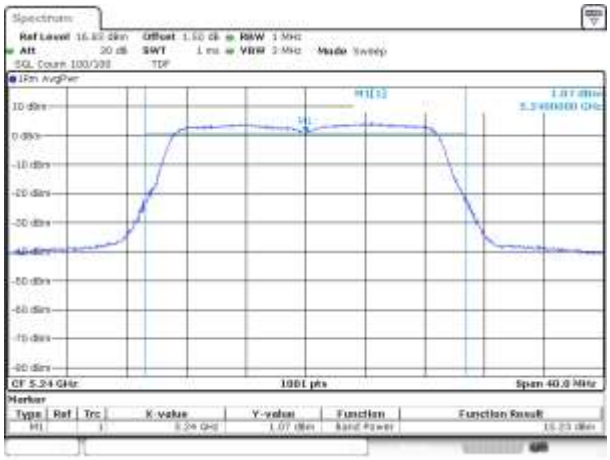
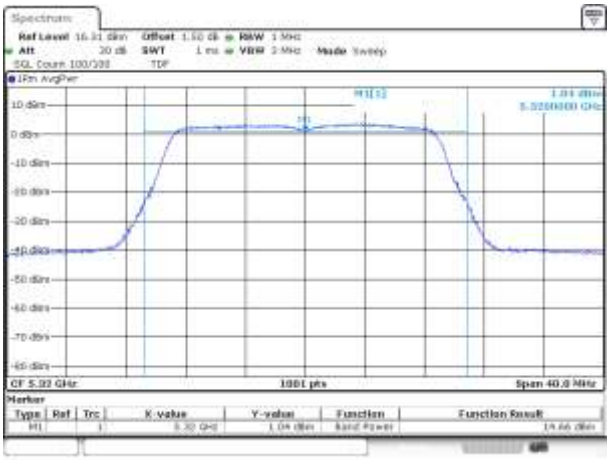
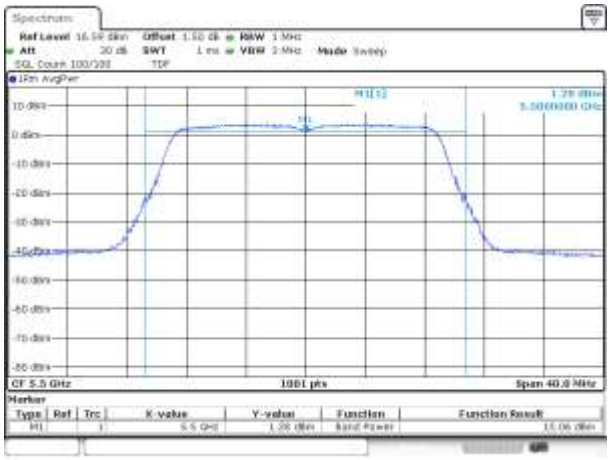
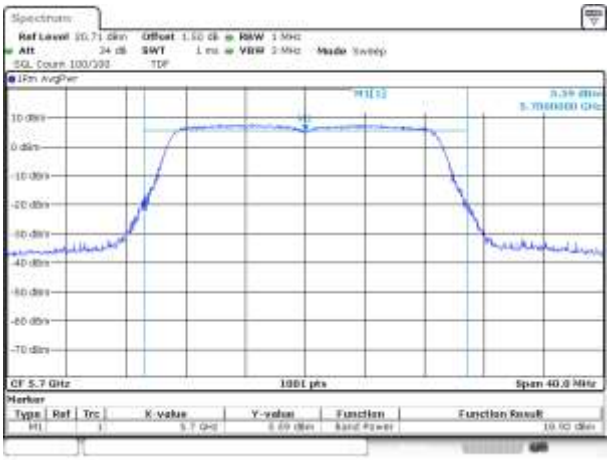
	

UNII-2C / 802.11n HT20 / 5 500 ㎒	UNII-2C / 802.11n HT20 / 5 700 ㎒
	
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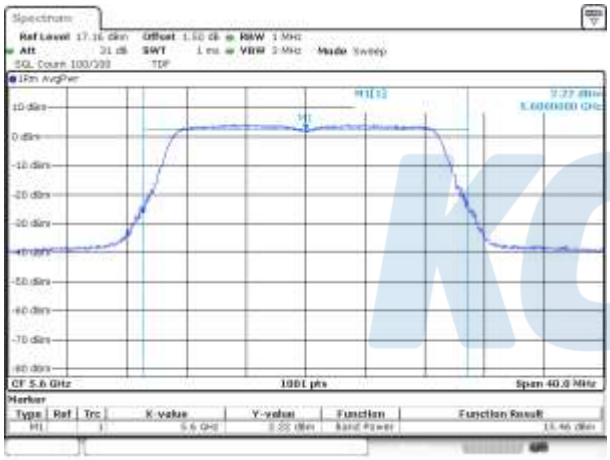
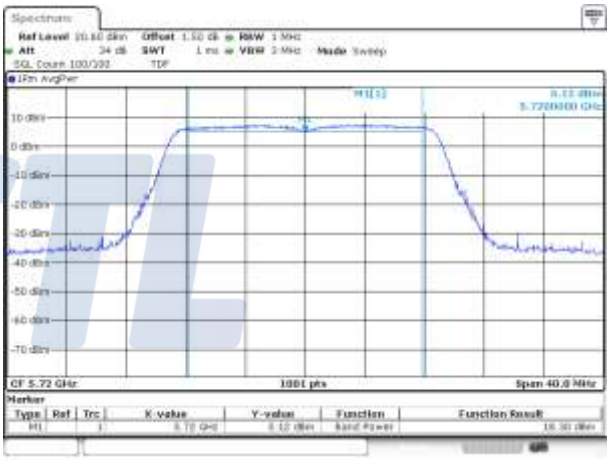
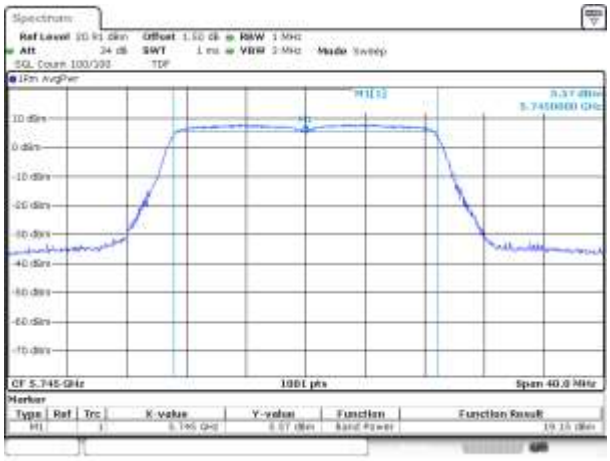
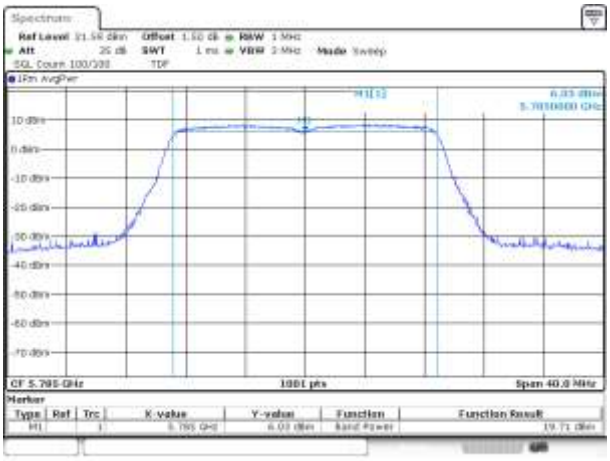
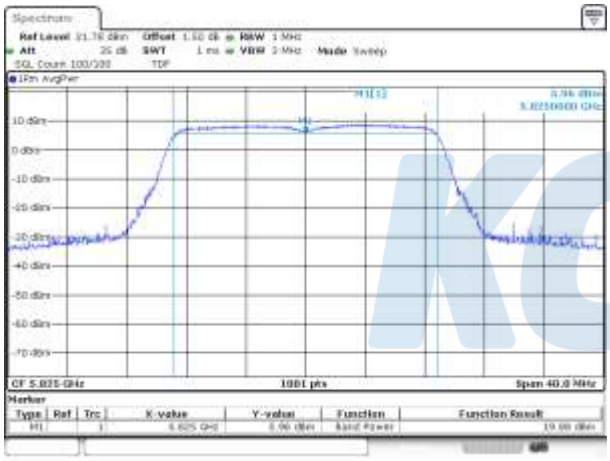
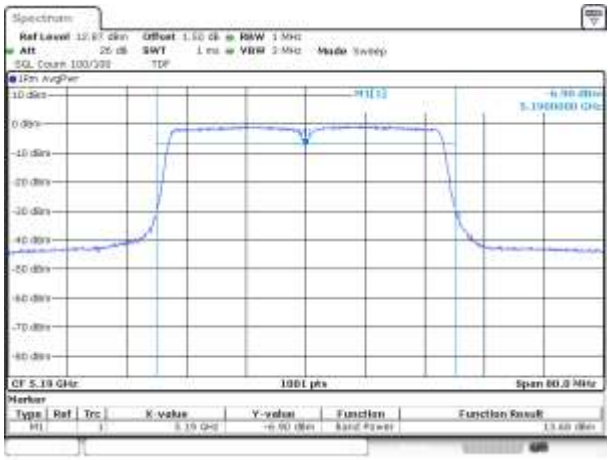
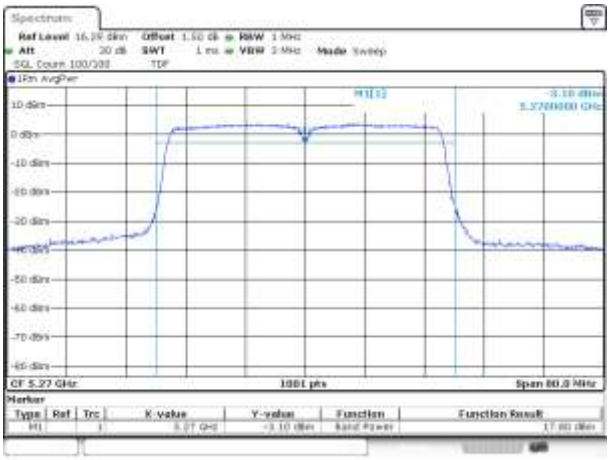
	

UNII-3 / 802.11n HT20 / 5 745 ㎒	UNII-3 / 802.11n HT20 / 5 785 ㎒
	
UNII-3 / 802.11n HT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11n HT40 / 5 190 ㎒	UNII-2A / 802.11n HT40 / 5 270 ㎒
	
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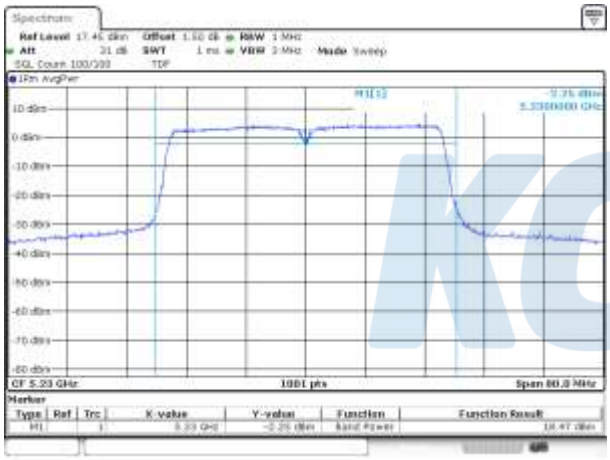
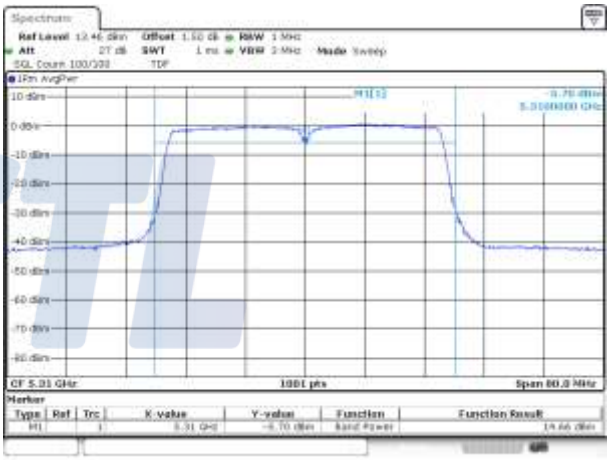
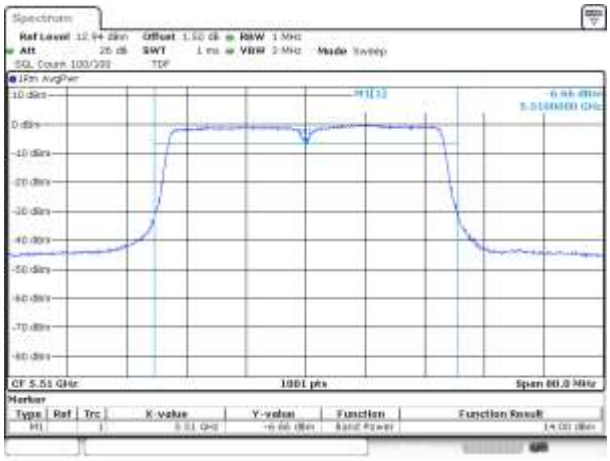
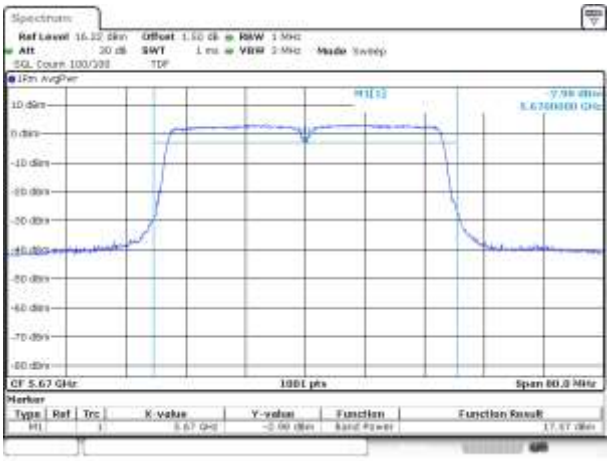
	

UNII-2C / 802.11n HT40 / 5 510 ㎒	UNII-2C / 802.11n HT40 / 5 670 ㎒
	
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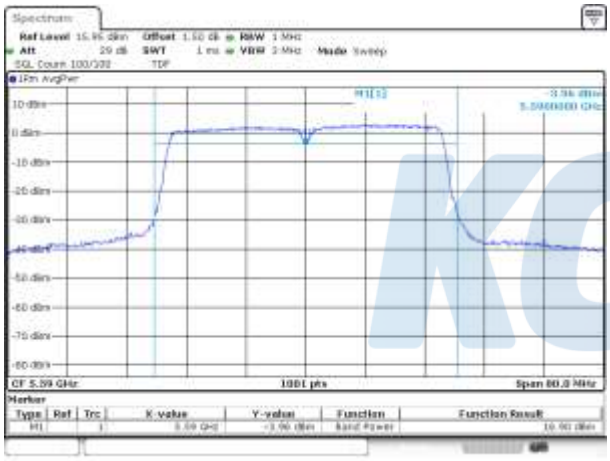
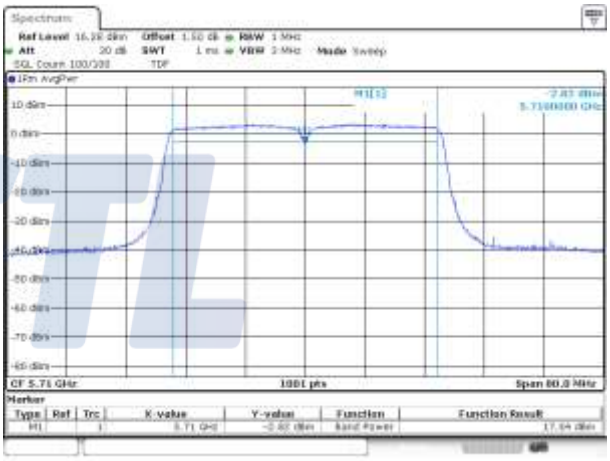
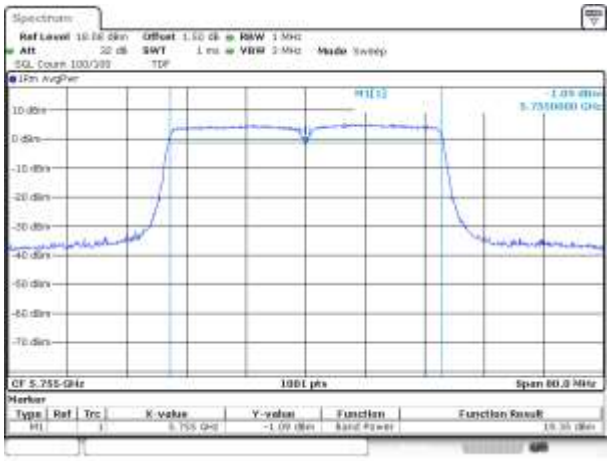
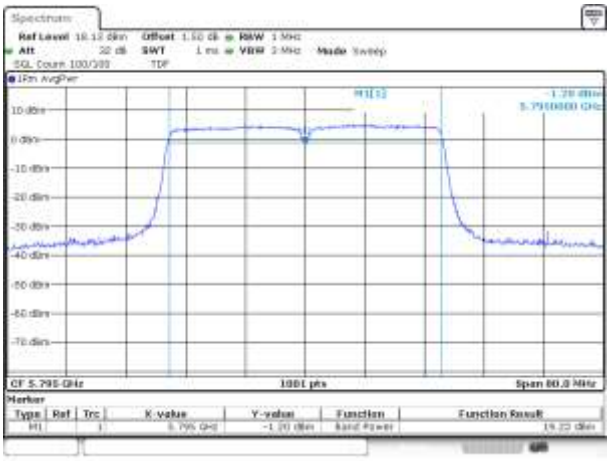
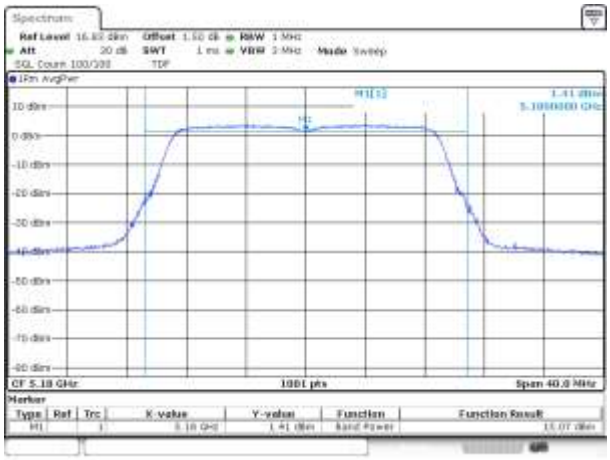
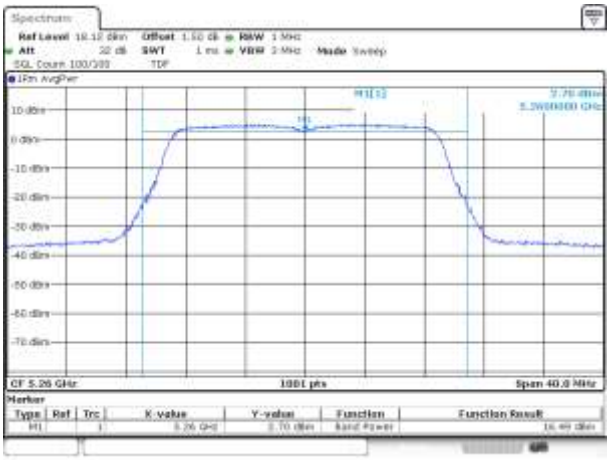
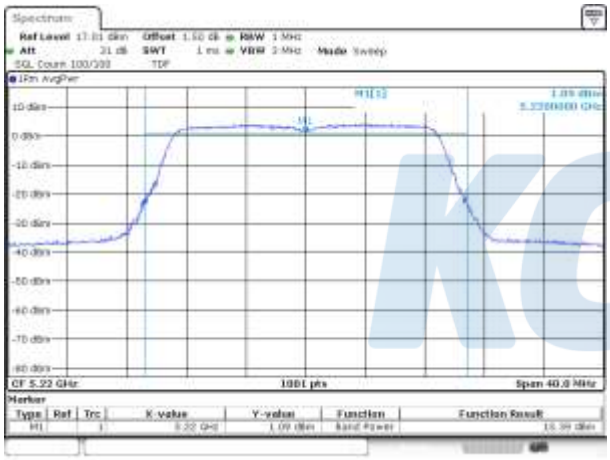
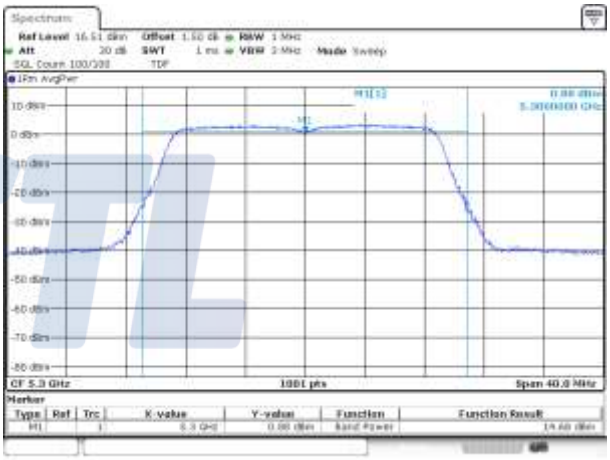
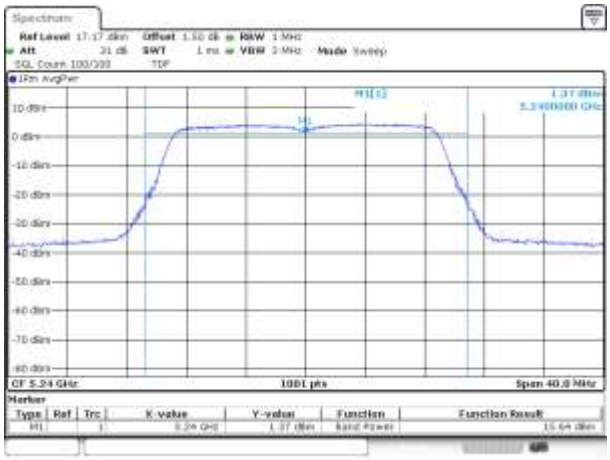
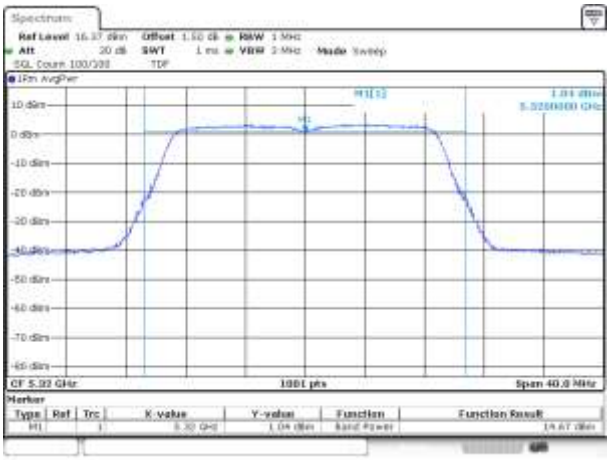
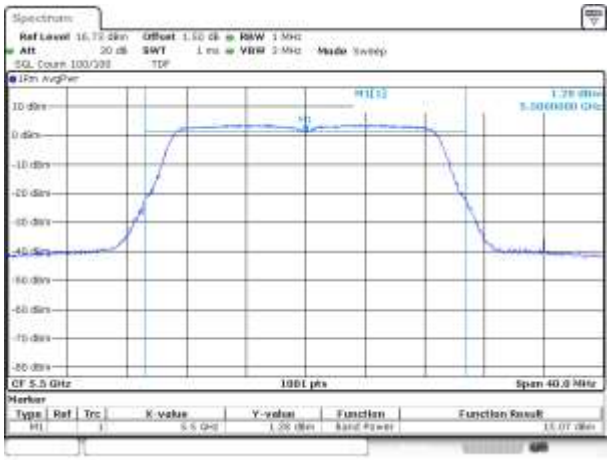
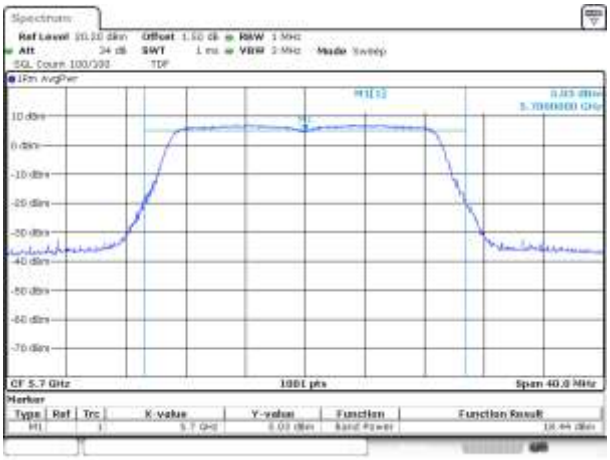
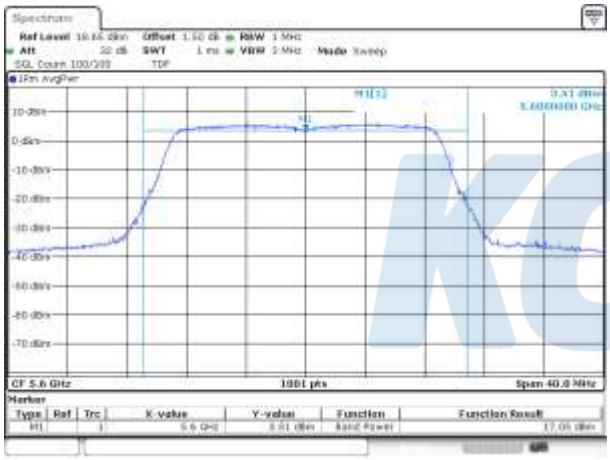
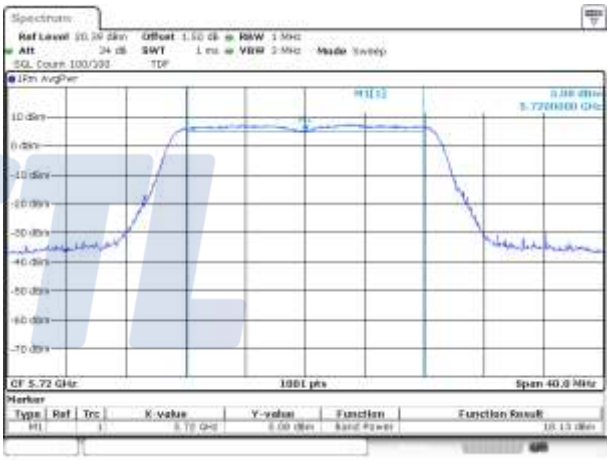
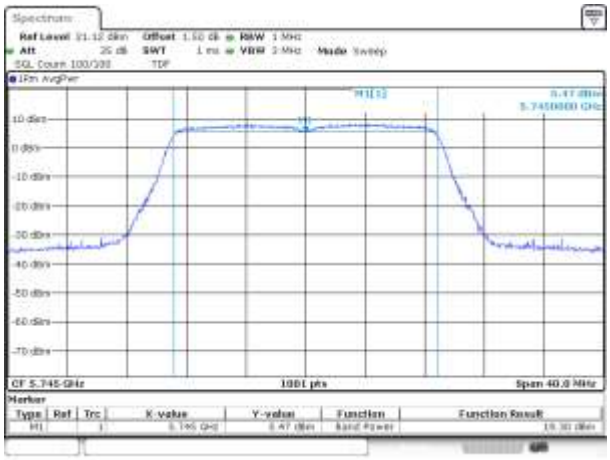
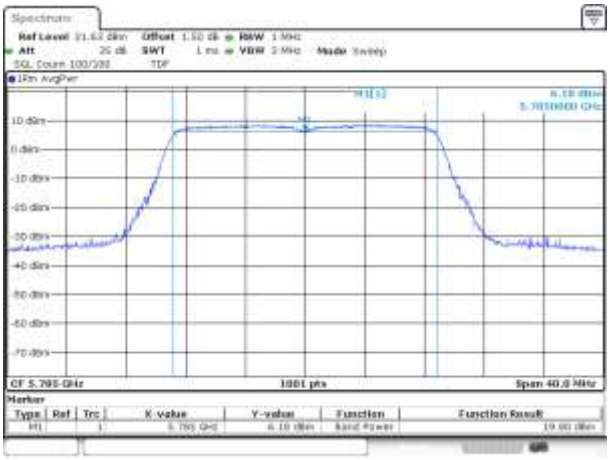
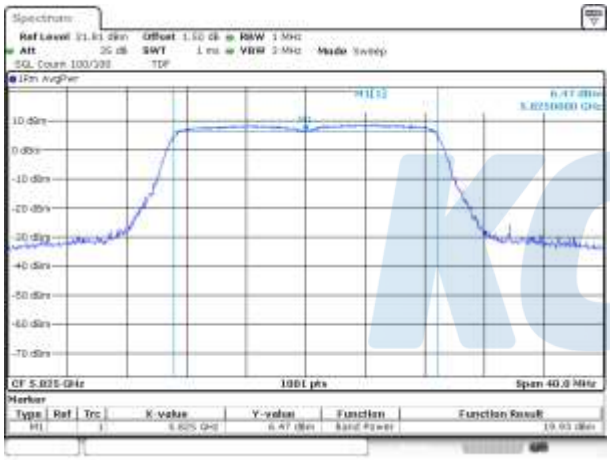
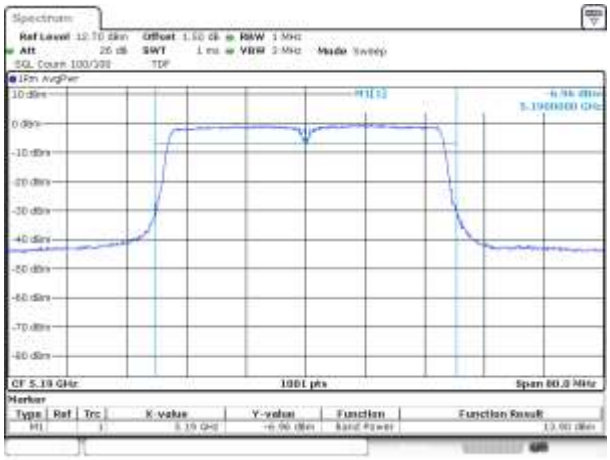
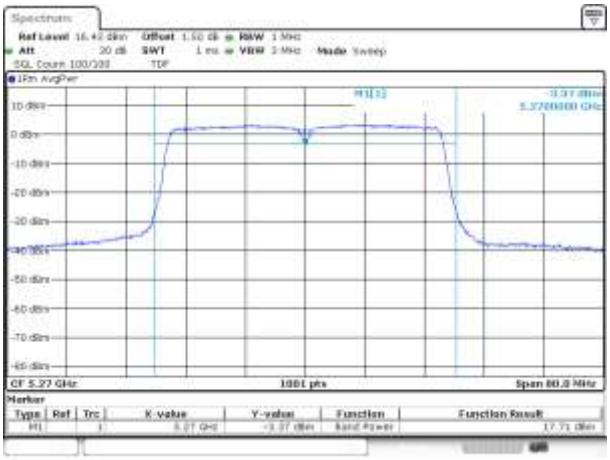
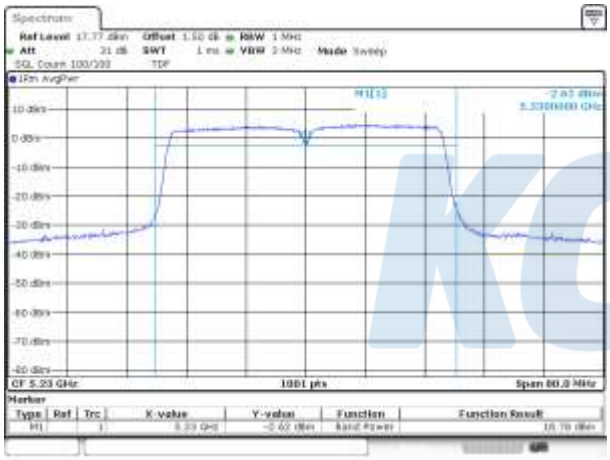
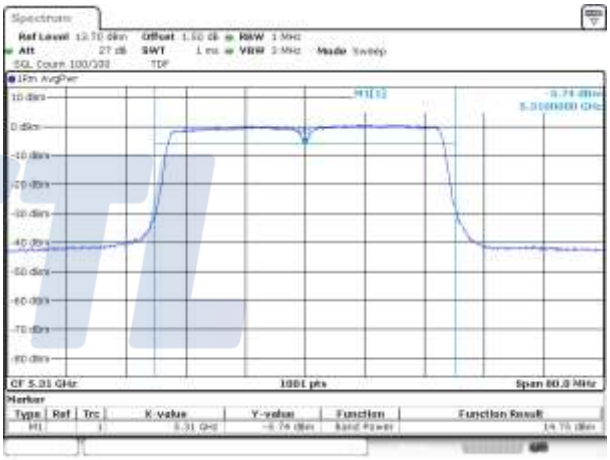
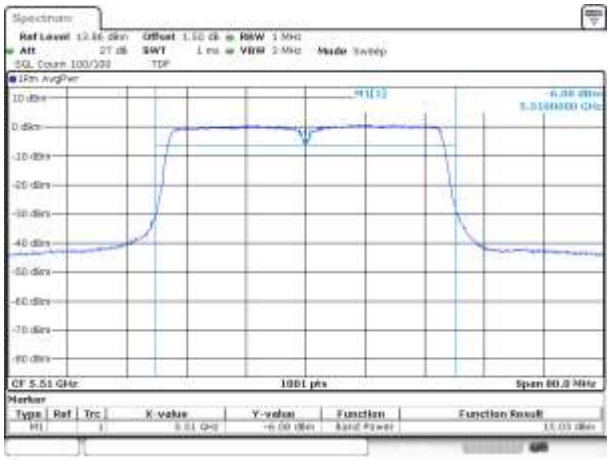
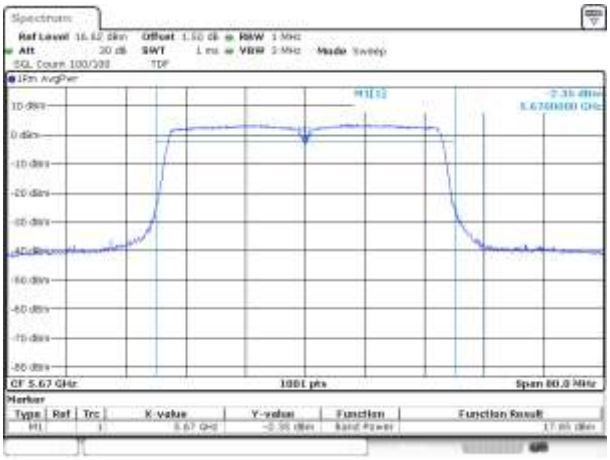
	
UNII-3 / 802.11n HT40 / 5 755 ㎒	**UNII-3 / 802.11n HT40 / 5 795 ㎒**
	

UNII-1 / 802.11ac VHT20 / 5 180 ㎒	UNII-2A / 802. 11ac VHT20 / 5 260 ㎒
	
UNII-1 / 802. 11ac VHT20 / 5 220 ㎒	**UNII-2A / 802. 11ac VHT20 / 5 300 ㎒**
	
UNII-1 / 802. 11ac VHT20 / 5 240 ㎒	**UNII-2A / 802. 11ac VHT20 / 5 320 ㎒**
	

UNII-2C / 802.11ac VHT20 / 5 500 ㎒	UNII-2C / 802.11ac VHT20 / 5 700 ㎒
	
UNII-2C / 802.11ac VHT20 / 5 600 ㎒	**UNII-2C / 802.11ac VHT20 / 5 720 ㎒**
	

UNII-3 / 802.11ac VHT20 / 5 745 ㎒	UNII-3 / 802.11ac VHT20 / 5 785 ㎒
	
UNII-3 / 802.11ac VHT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11ac VHT40 / 5 190 ㎒	UNII-2A / 802.11ac VHT40 / 5 270 ㎒
	
UNII-1 / 802.11ac VHT40 / 5 230 ㎒	**UNII-2A / 802.11ac VHT40 / 5 310 ㎒**
	

UNII-2C / 802.11ac VHT40 / 5 510 ㎒	UNII-2C / 802.11ac VHT40 / 5 670 ㎒
	
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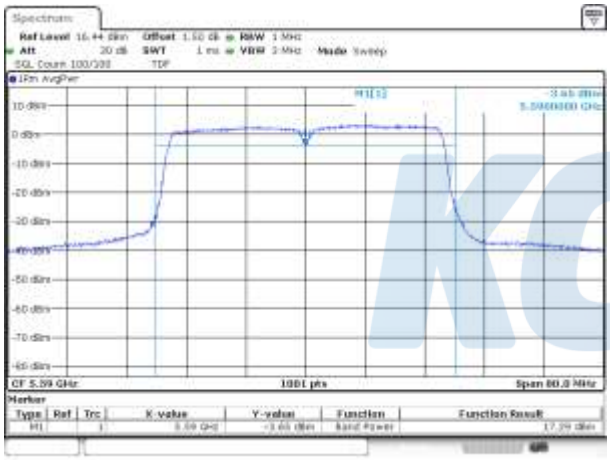
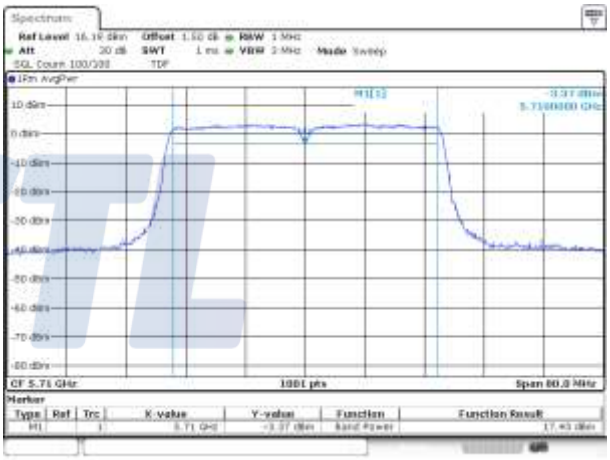
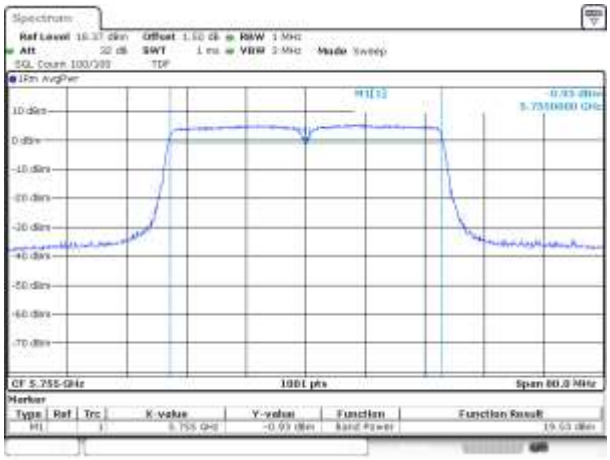
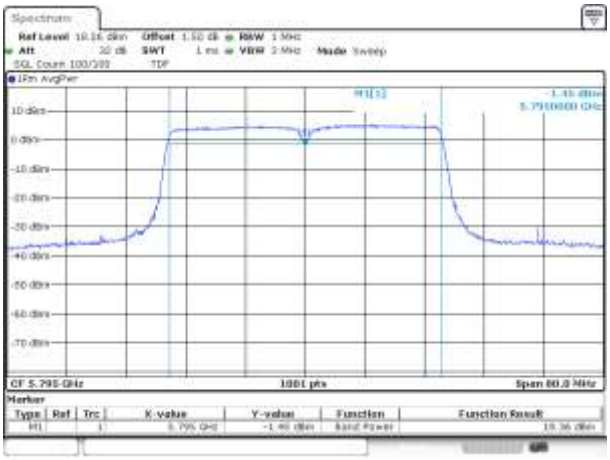
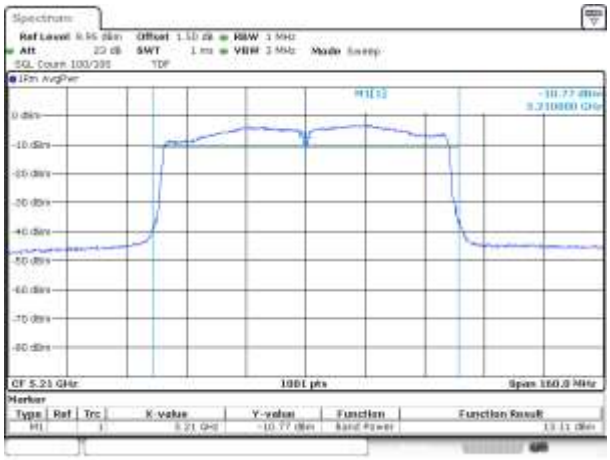
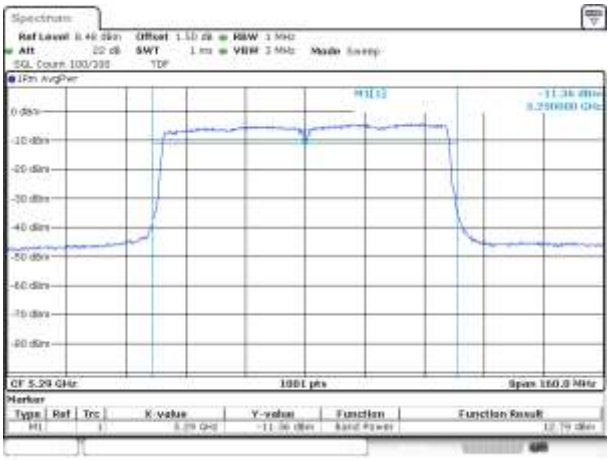
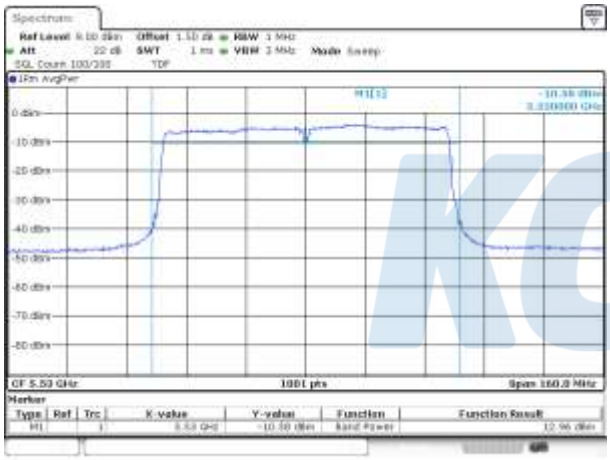
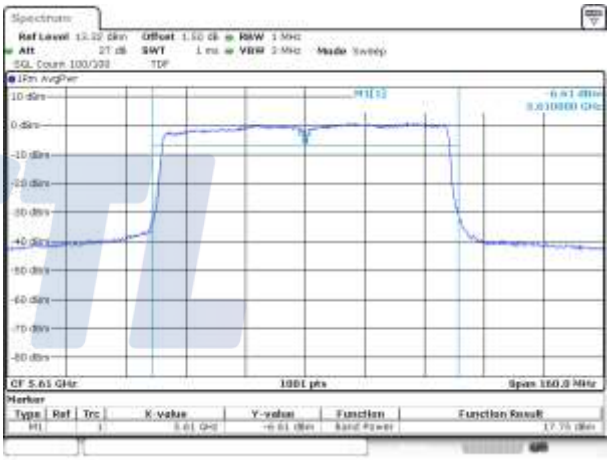
	
UNII-3 / 802.11ac VHT40 / 5 755 ㎒	**UNII-3 / 802.11ac VHT40 / 5 795 ㎒**
	

UNII-1 / 802.11ac VHT80 / 5 210 ㎒	UNII-2A / 802.11ac VHT80 / 5 290 ㎒
	
UNII-2C / 802.11ac VHT80 / 5 530 ㎒	**UNII-2C / 802.11ac VHT80 / 5 610 ㎒**
	
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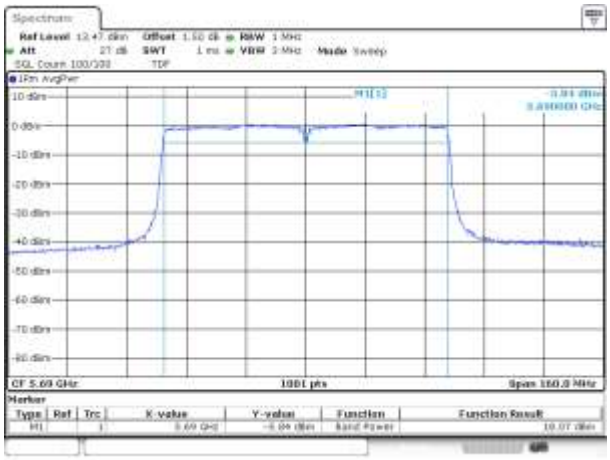	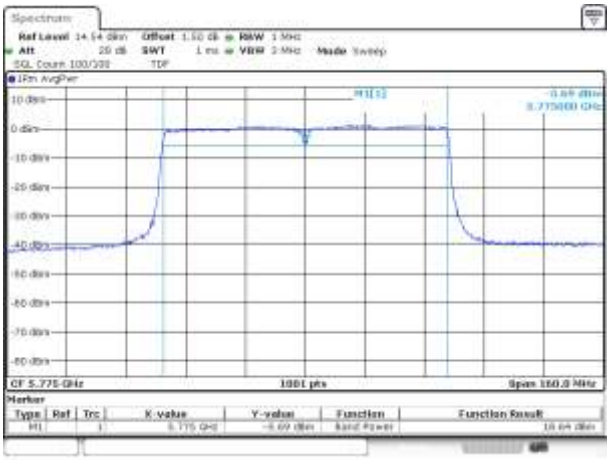

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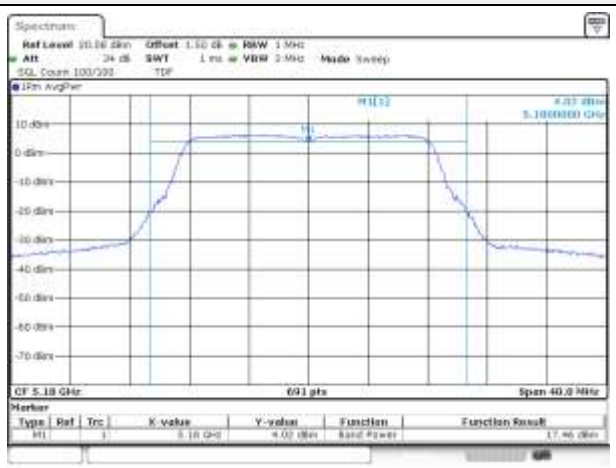
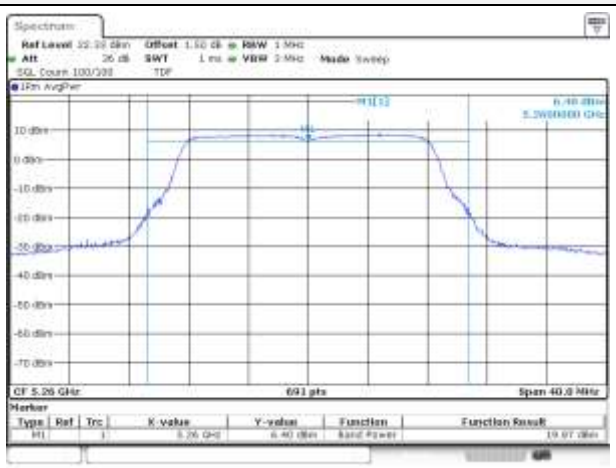
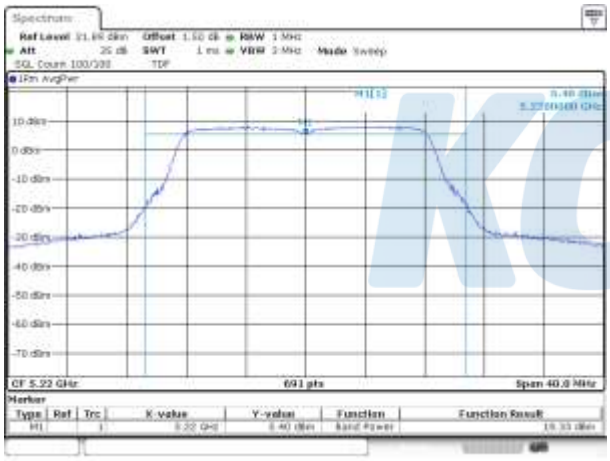
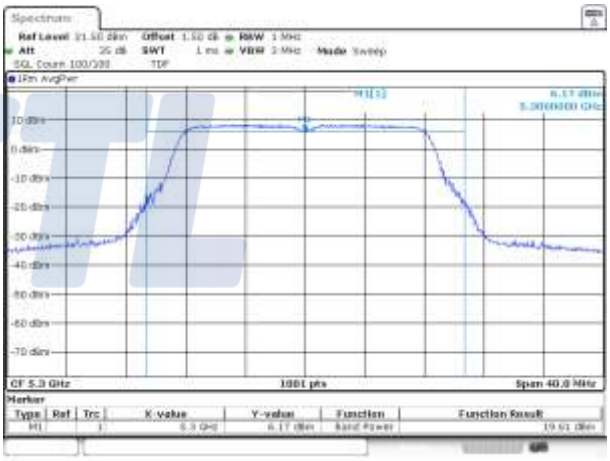
UNII-1 / 802.11a / 5 180 ㎒	UNII-2A / 802.11a / 5 260 ㎒
	
UNII-1 / 802.11a / 5 220 ㎒	**UNII-2A / 802.11a / 5 300 ㎒**
	
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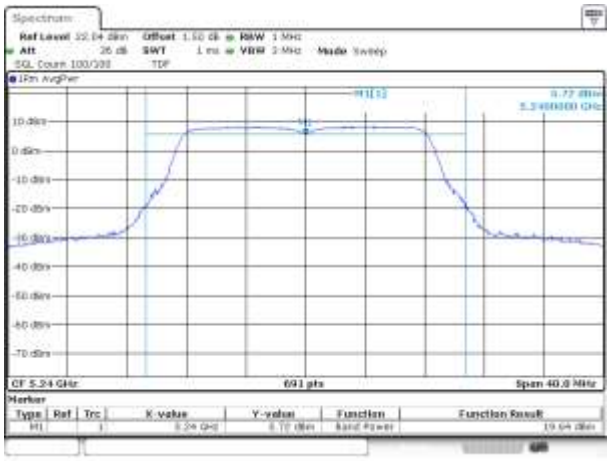
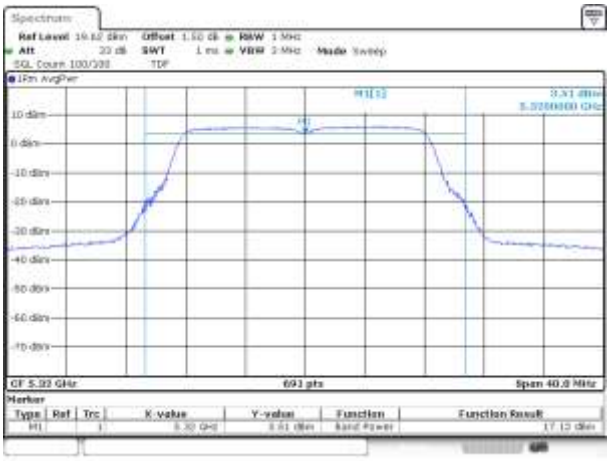
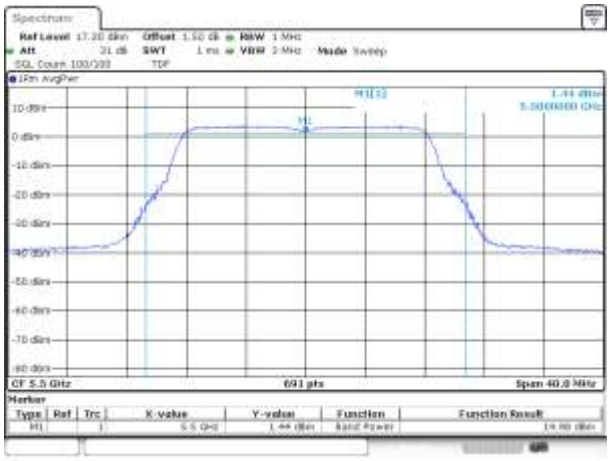
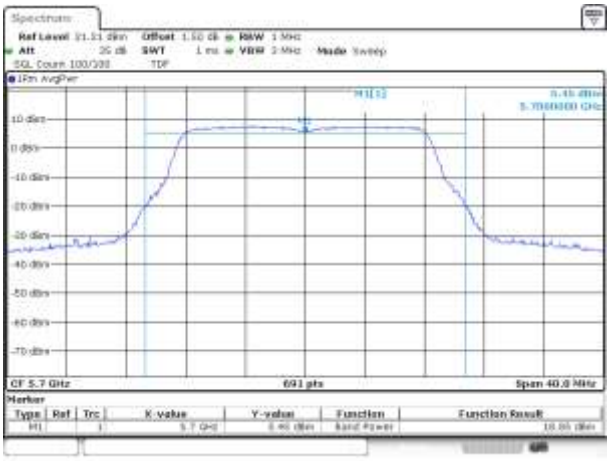
	

UNII-2C / 802.11a / 5 500 ㎒	UNII-2C / 802.11a / 5 700 ㎒
	
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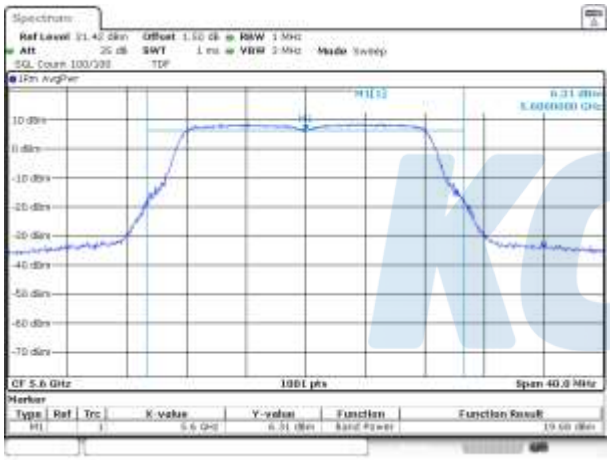
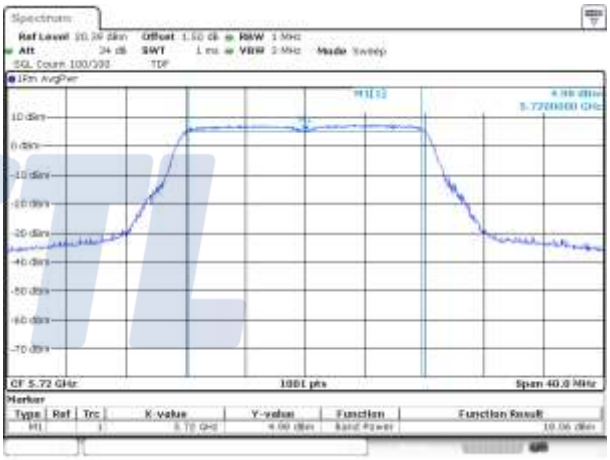
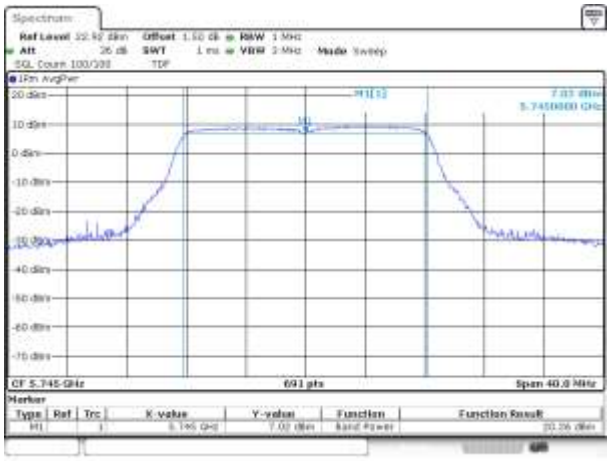
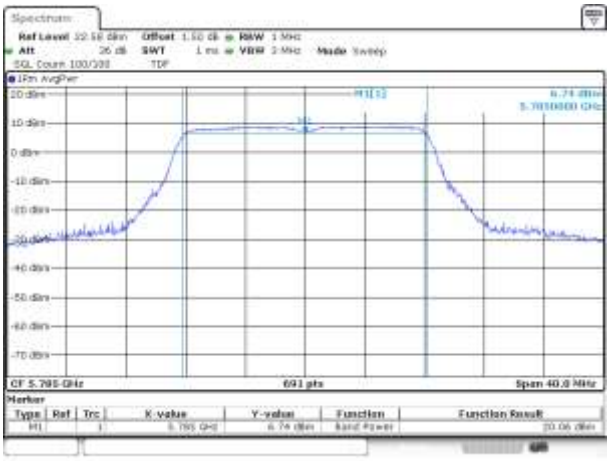
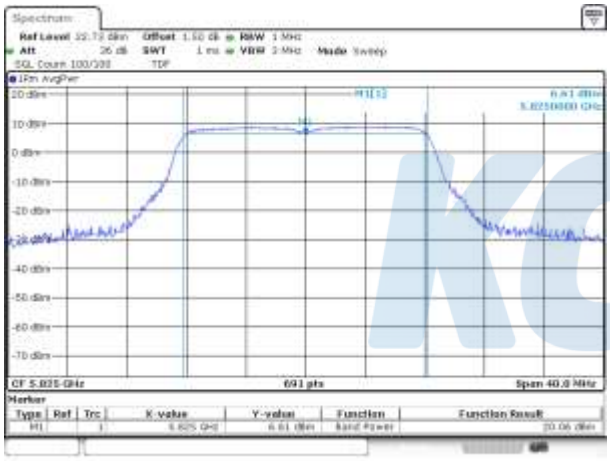
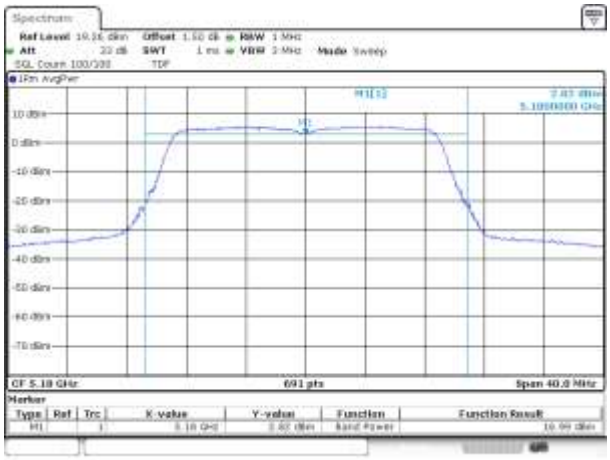
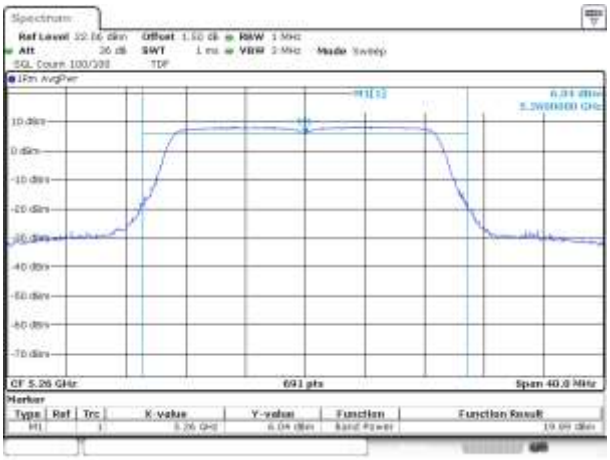
	

UNII-3 / 802.11a / 5 745 ㎒	UNII-3 / 802.11a / 5 785 ㎒
	
UNII-3 / 802.11a / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11n HT20 / 5 180 ㎒	UNII-2A / 802.11n HT20 / 5 260 ㎒
	
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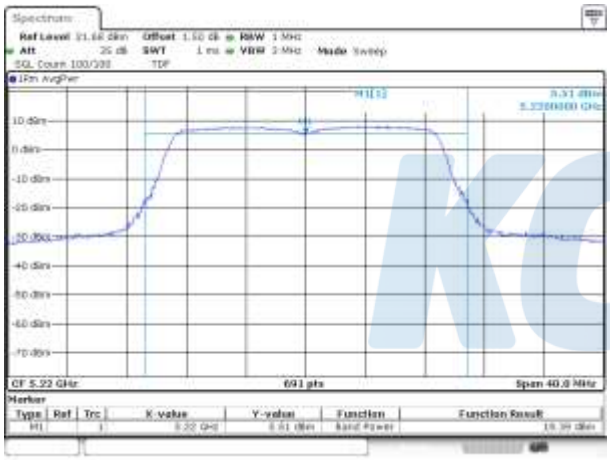	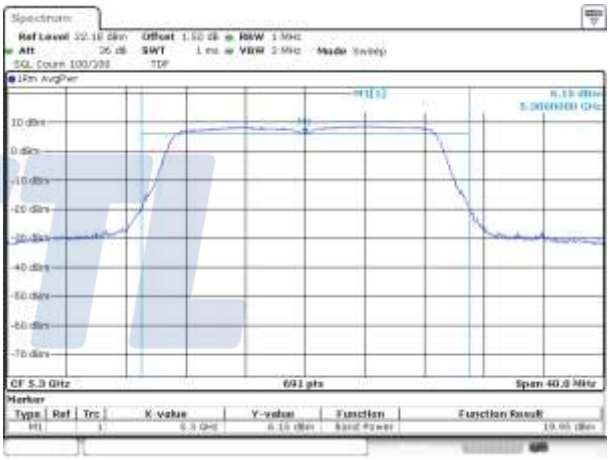
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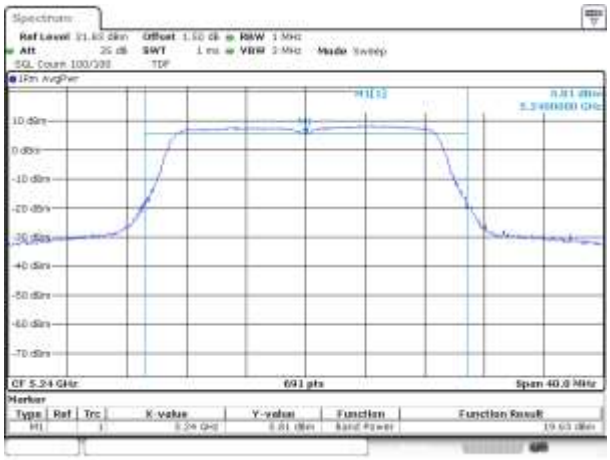
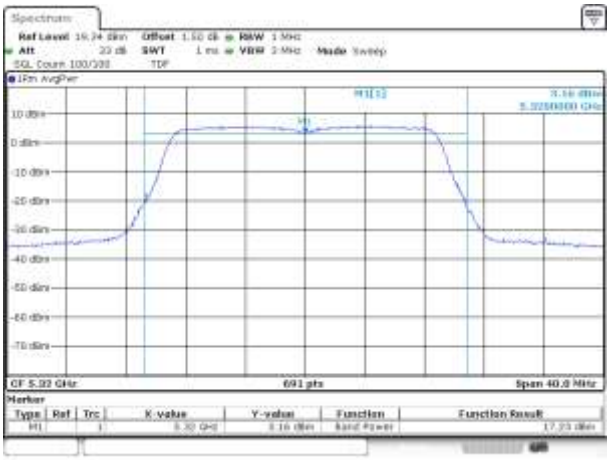
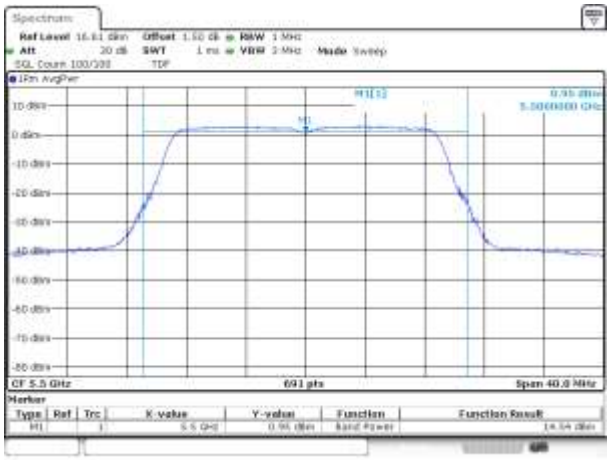
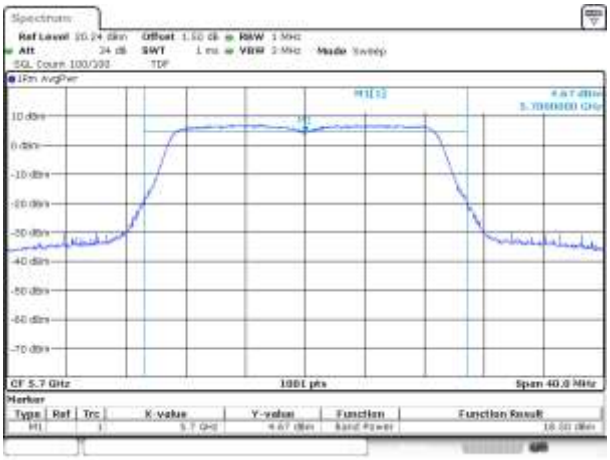
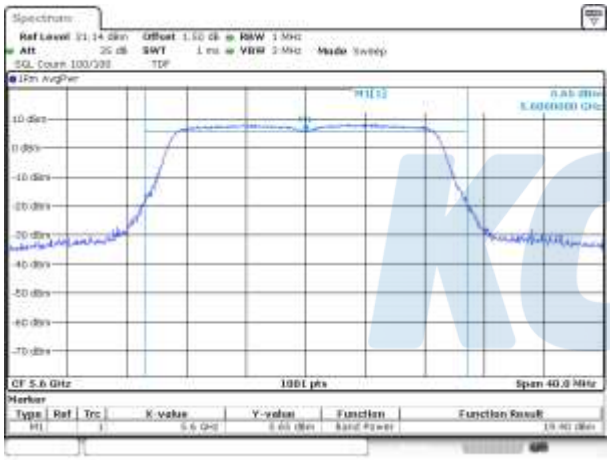
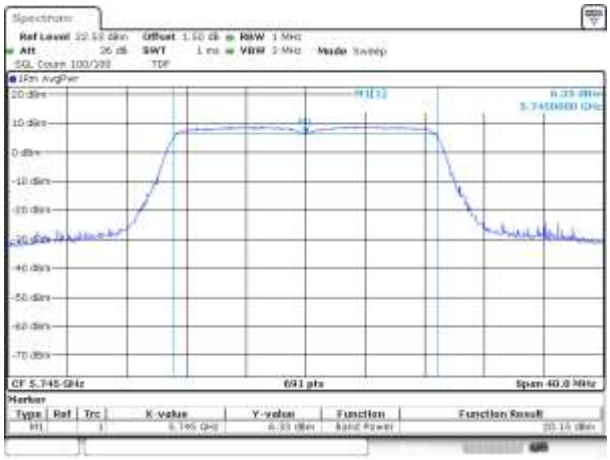
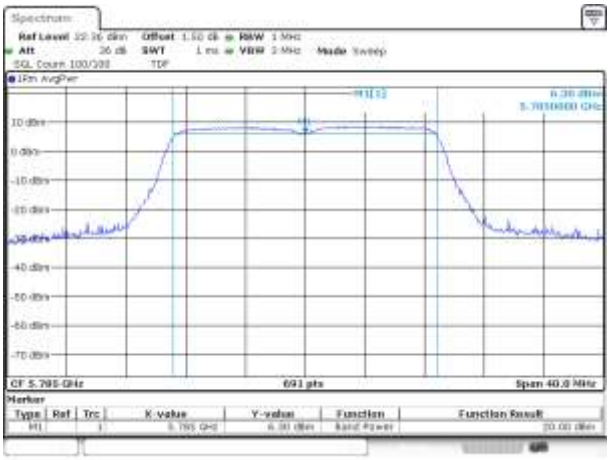
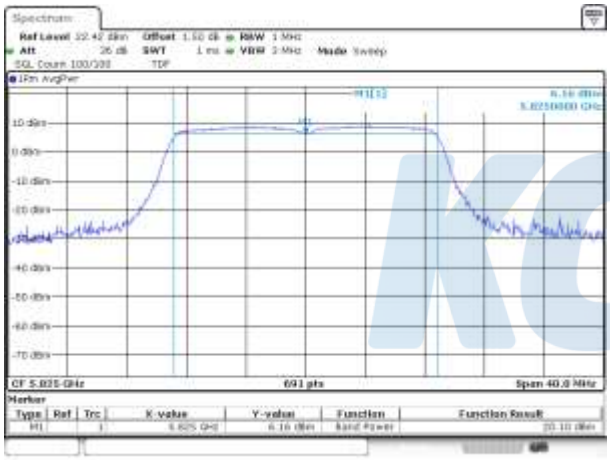
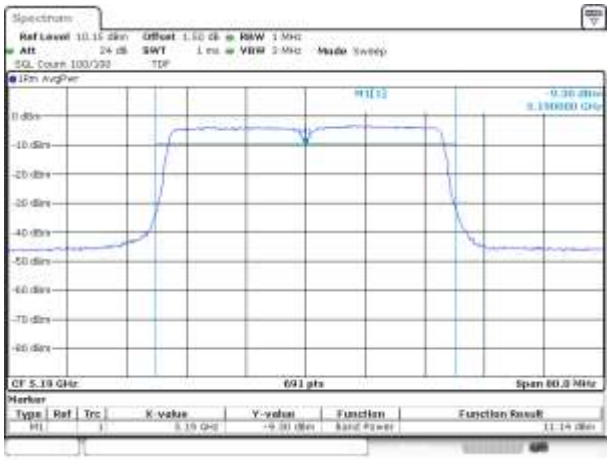
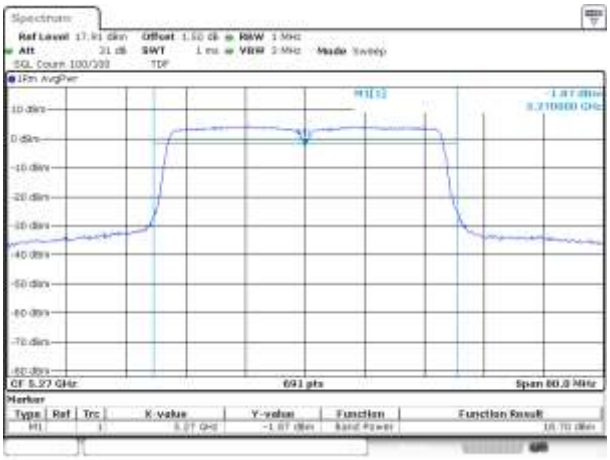
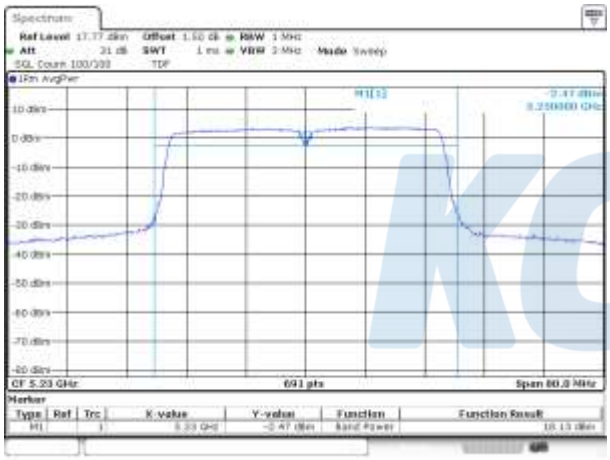
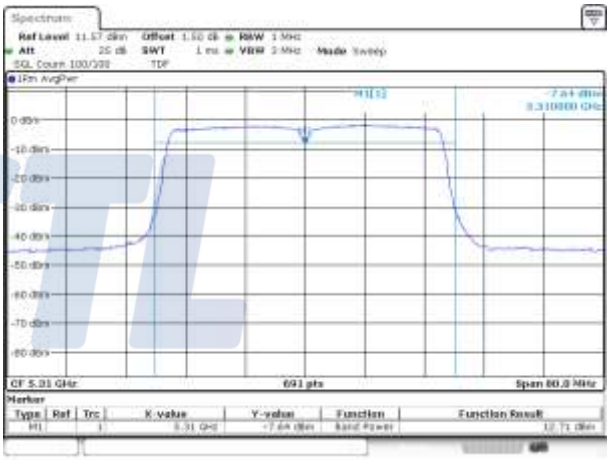
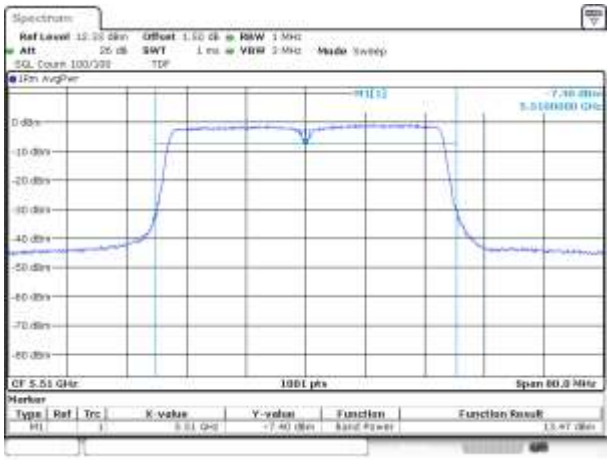
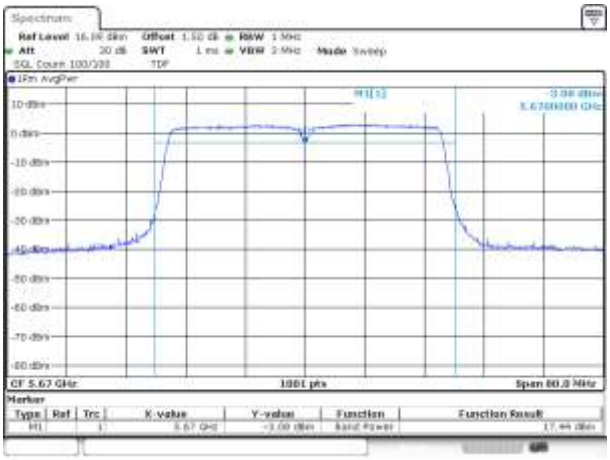
	

UNII-2C / 802.11n HT20 / 5 500 ㎒	UNII-2C / 802.11n HT20 / 5 700 ㎒
	
UNII-2C / 802.11n HT20 / 5 600 ㎒	**UNII-2C / 802.11n HT20 / 5 720 ㎒**
	

UNII-3 / 802.11n HT20 / 5 745 ㎒	UNII-3 / 802.11n HT20 / 5 785 ㎒
	
UNII-3 / 802.11n HT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11n HT40 / 5 190 ㎒	UNII-2A / 802.11n HT40 / 5 270 ㎒
	
UNII-1 / 802.11n HT40 / 5 230 ㎒	**UNII-2A / 802.11n HT40 / 5 310 ㎒**
	

UNII-2C / 802.11n HT40 / 5 510 ㎒	UNII-2C / 802.11n HT40 / 5 670 ㎒
	
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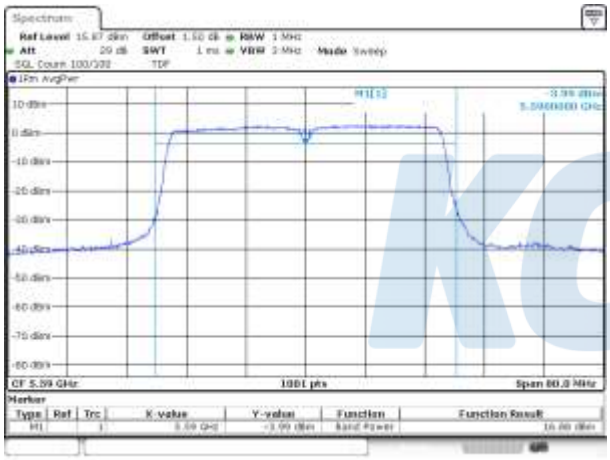	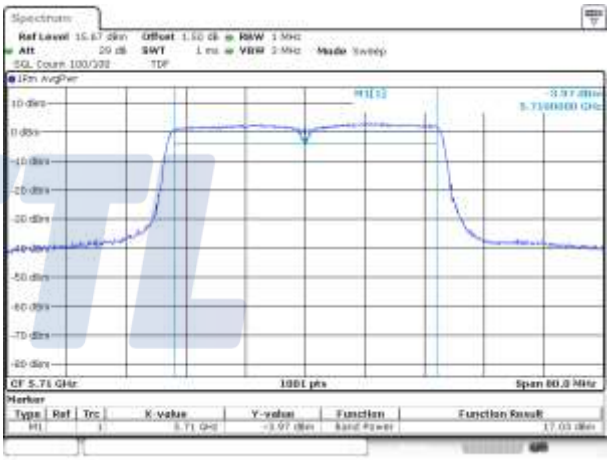
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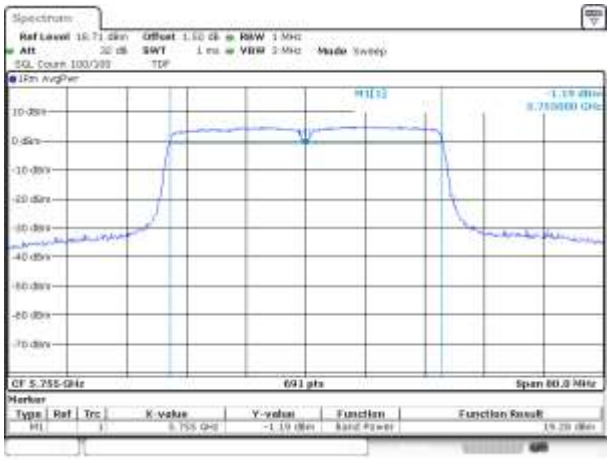
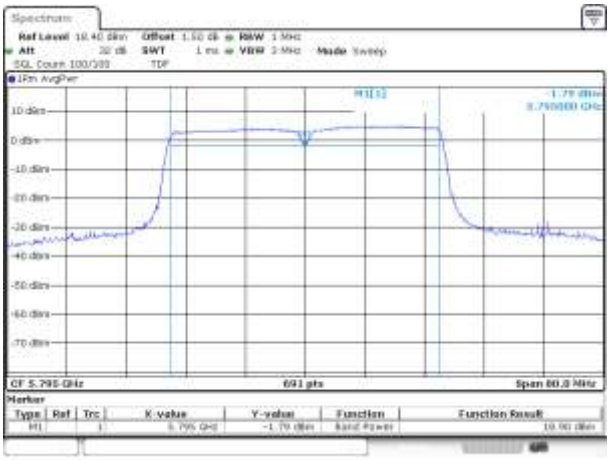
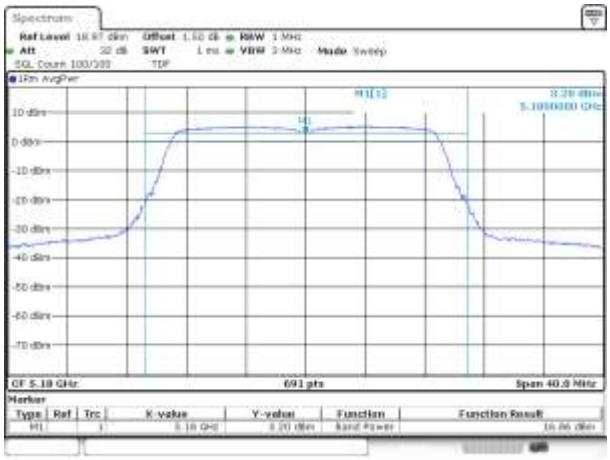
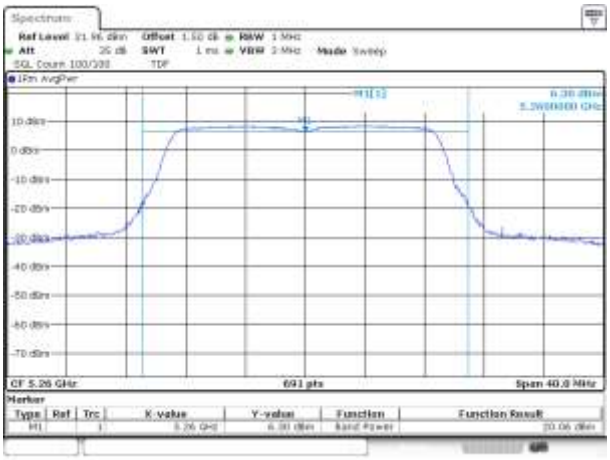
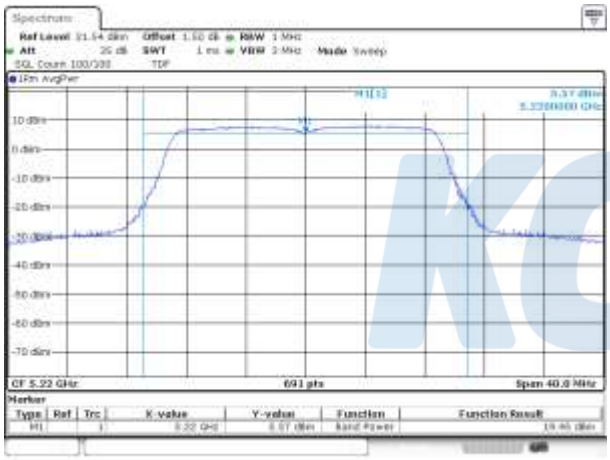
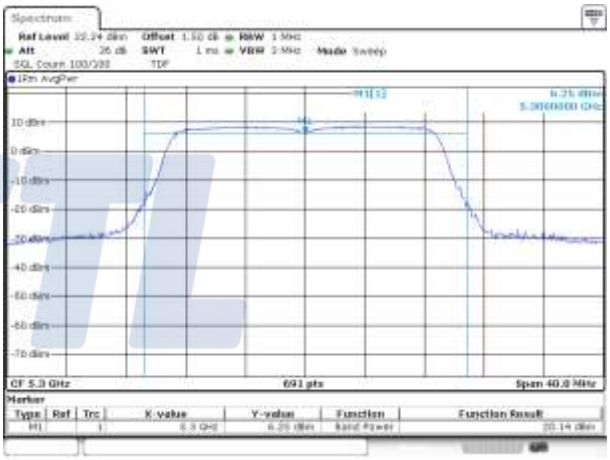
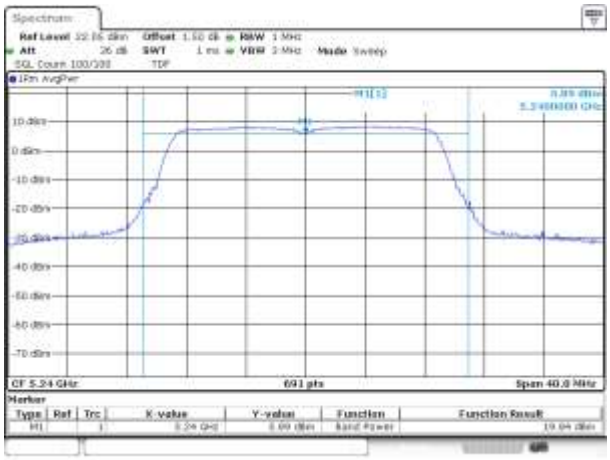
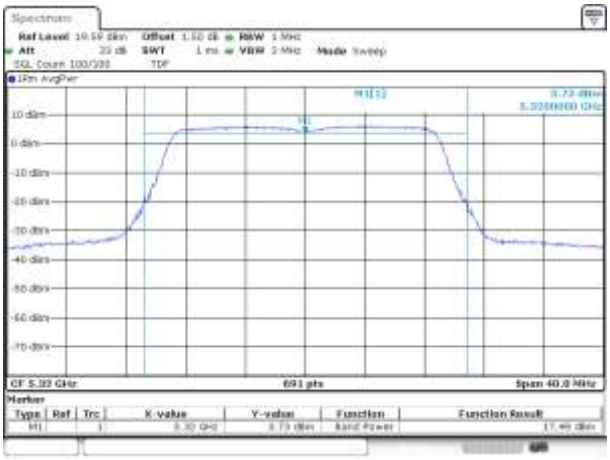
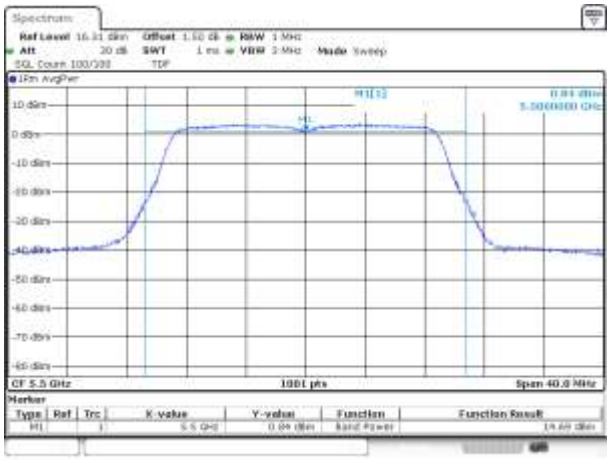
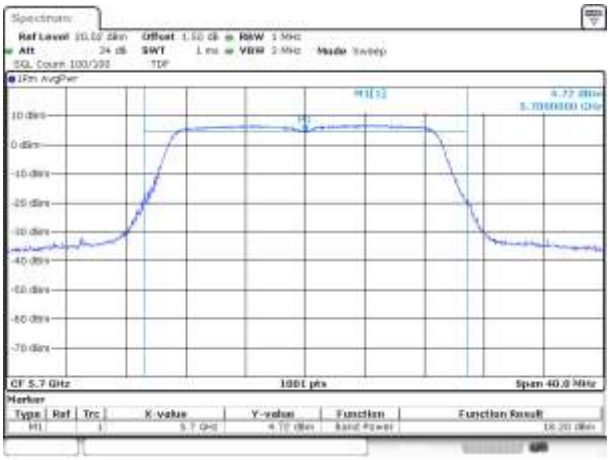
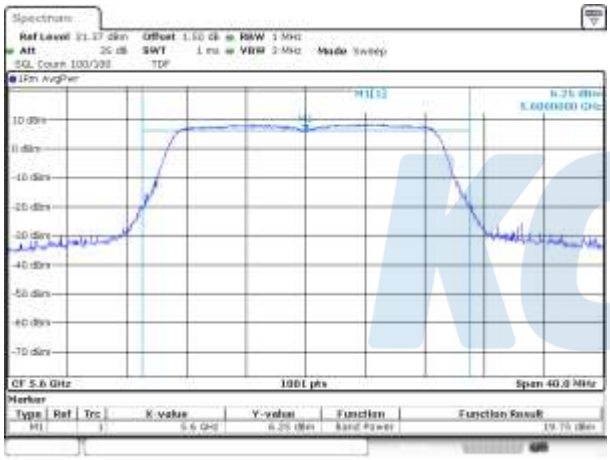
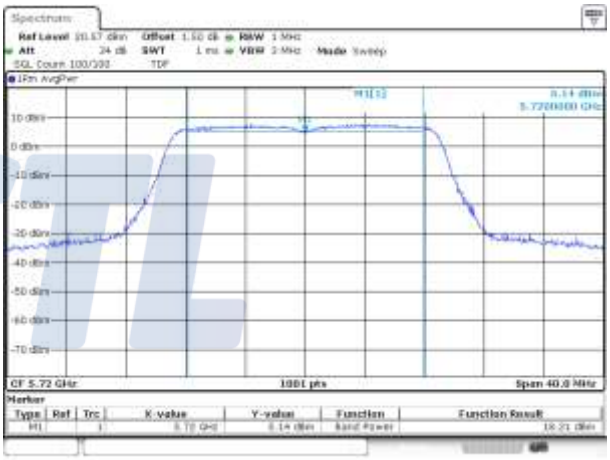
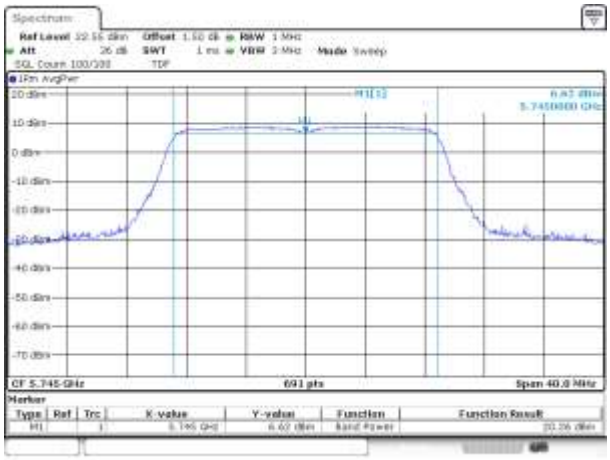
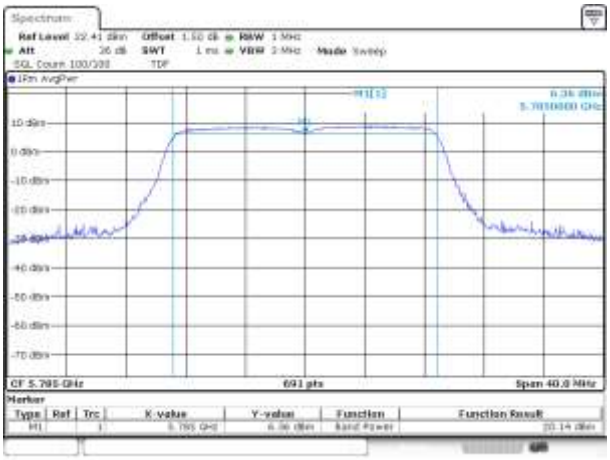
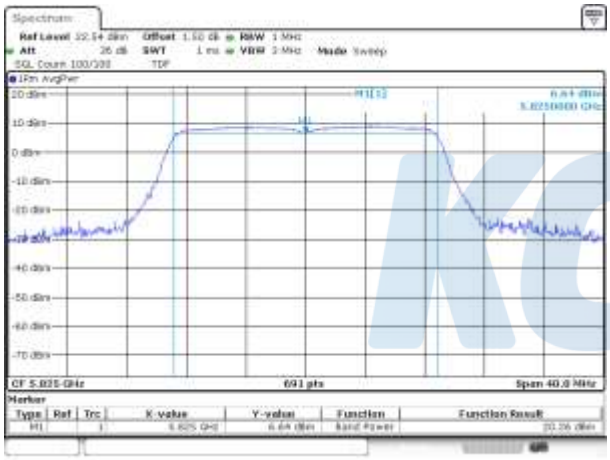
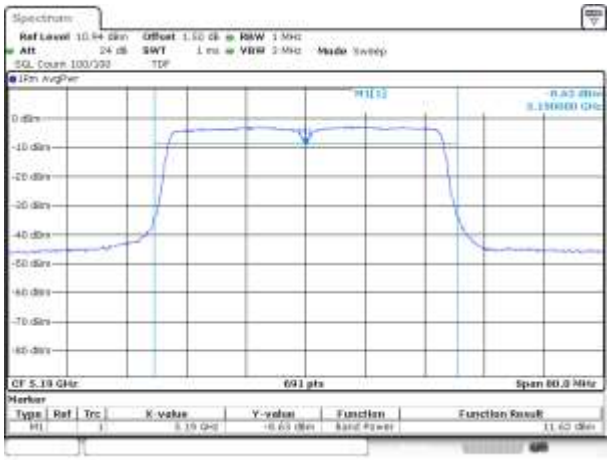
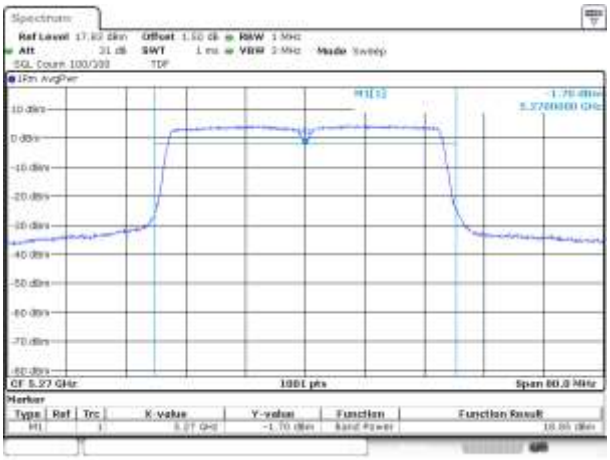
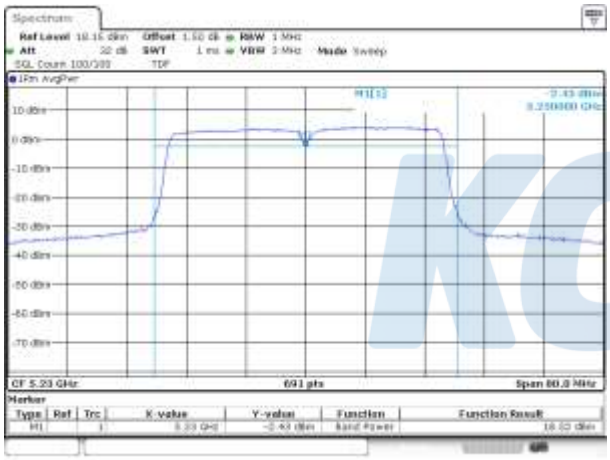
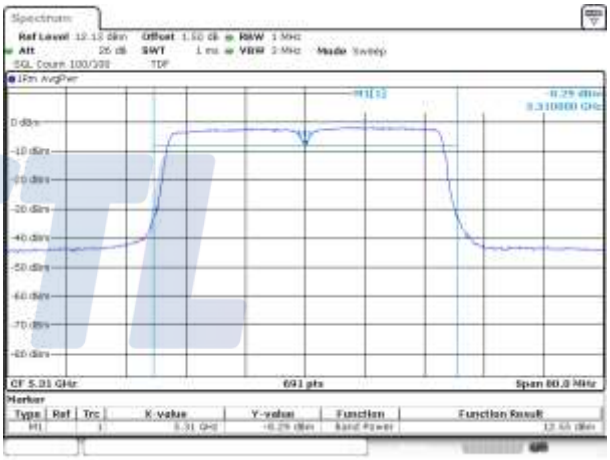
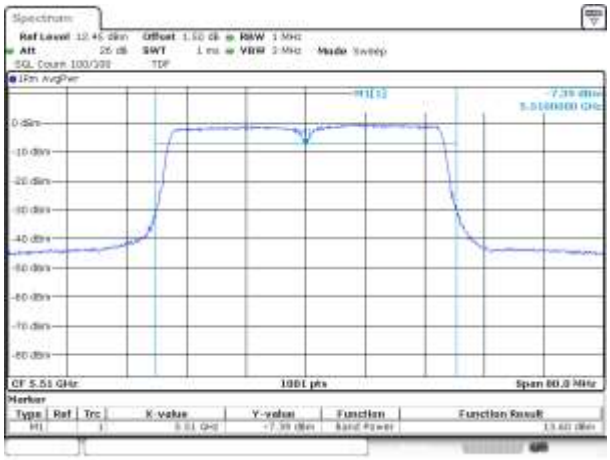
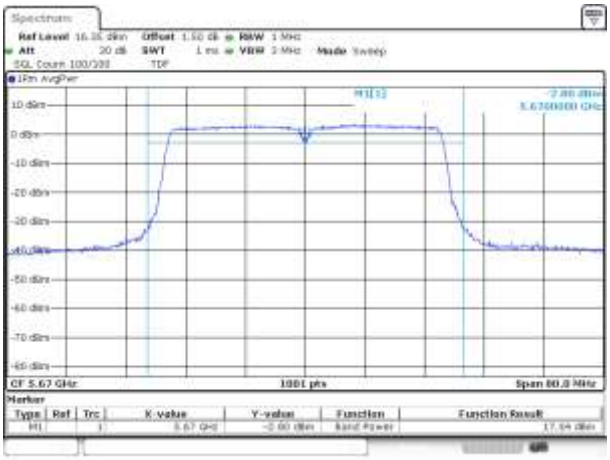
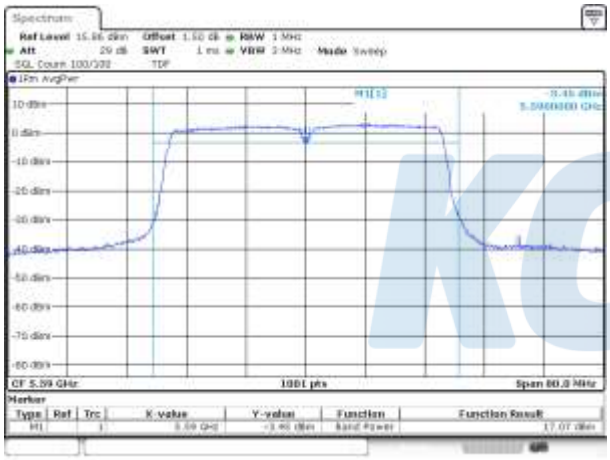
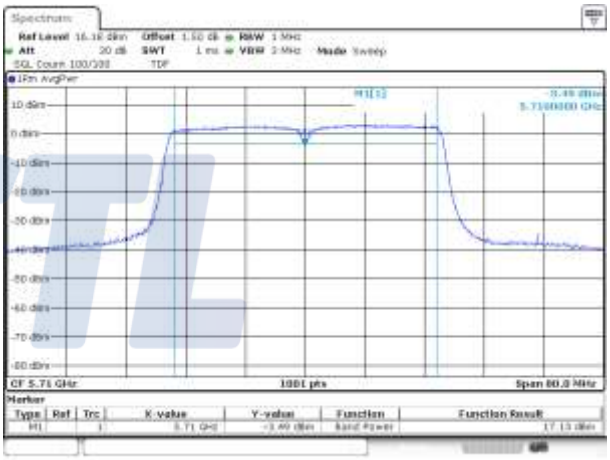
	

UNII-1 / 802.11ac VHT20 / 5 180 ㎒	UNII-2A / 802. 11ac VHT20 / 5 260 ㎒
	
UNII-1 / 802. 11ac VHT20 / 5 220 ㎒	**UNII-2A / 802. 11ac VHT20 / 5 300 ㎒**
	
UNII-1 / 802. 11ac VHT20 / 5 240 ㎒	**UNII-2A / 802. 11ac VHT20 / 5 320 ㎒**
	

UNII-2C / 802.11ac VHT20 / 5 500 ㎒	UNII-2C / 802.11ac VHT20 / 5 700 ㎒
	
UNII-2C / 802.11ac VHT20 / 5 600 ㎒	**UNII-2C / 802.11ac VHT20 / 5 720 ㎒**
	

UNII-3 / 802.11ac VHT20 / 5 745 ㎒	UNII-3 / 802.11ac VHT20 / 5 785 ㎒
	
UNII-3 / 802.11ac VHT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11ac VHT40 / 5 190 ㎒	UNII-2A / 802.11ac VHT40 / 5 270 ㎒
	
UNII-1 / 802.11ac VHT40 / 5 230 ㎒	**UNII-2A / 802.11ac VHT40 / 5 310 ㎒**
	

UNII-2C / 802.11ac VHT40 / 5 510 ㎒	UNII-2C / 802.11ac VHT40 / 5 670 ㎒
	
UNII-2C / 802.11ac VHT40 / 5 590 ㎒	**UNII-2C / 802.11ac VHT40 / 5 710 ㎒**
	
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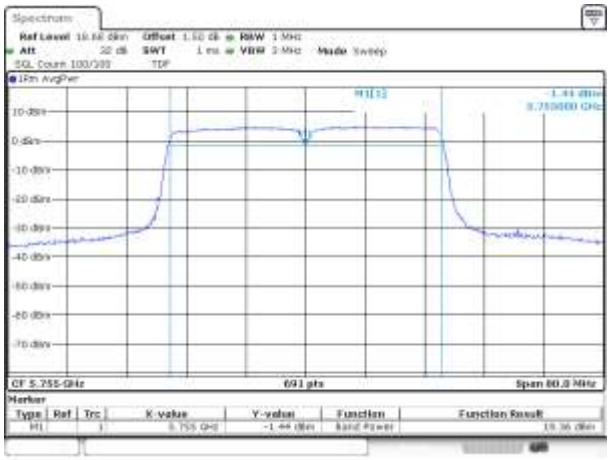	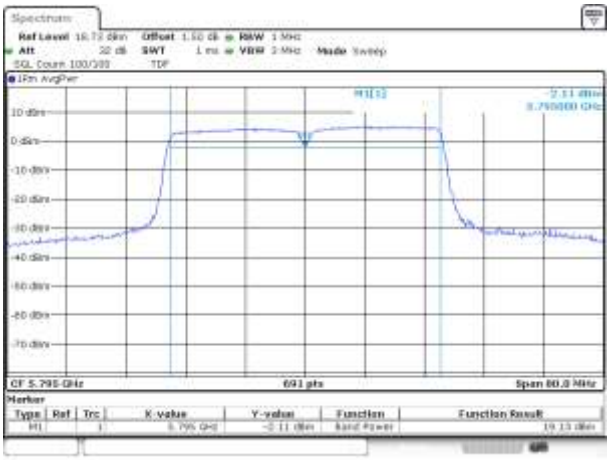

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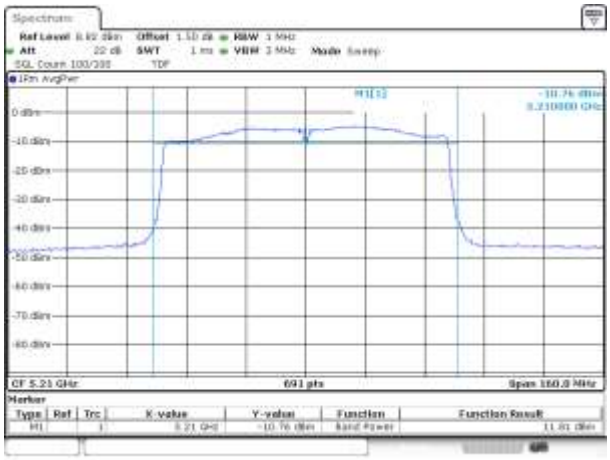	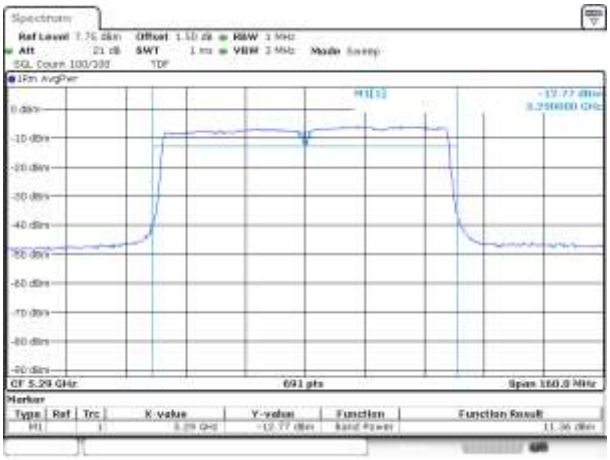
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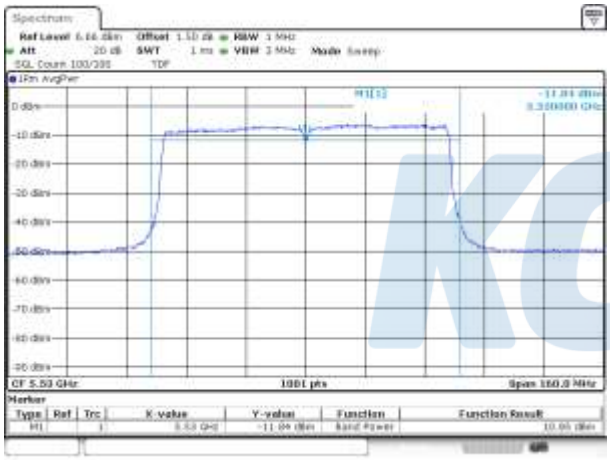	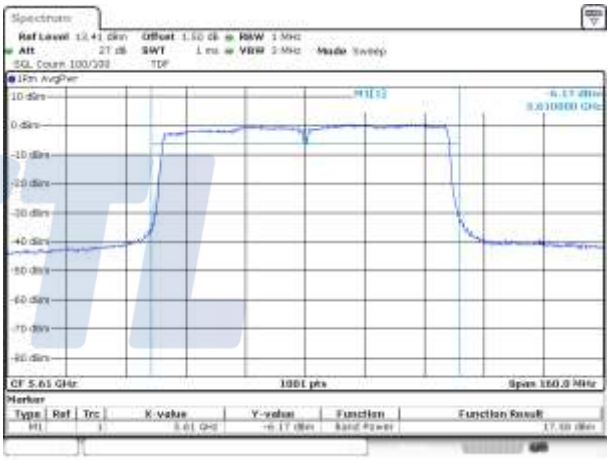
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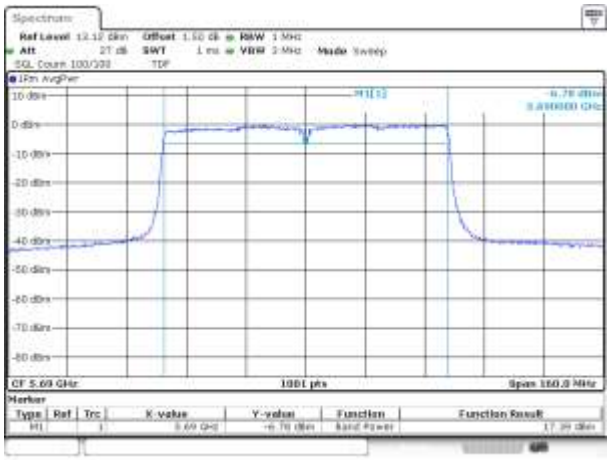	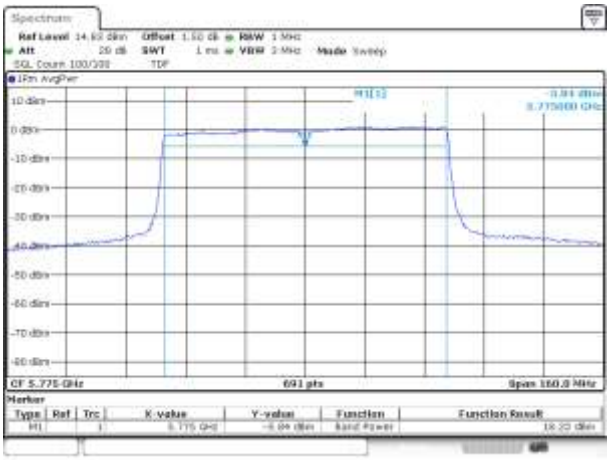

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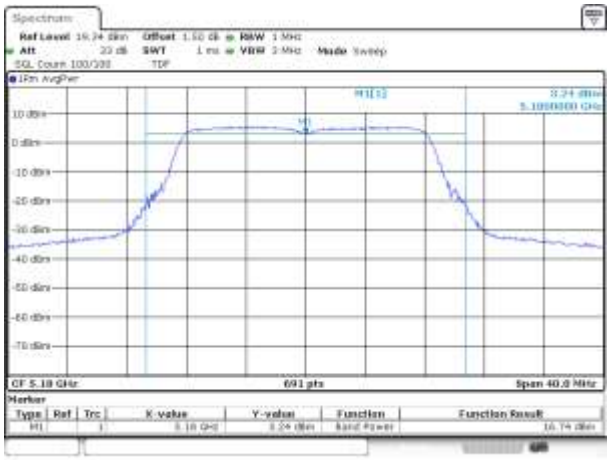
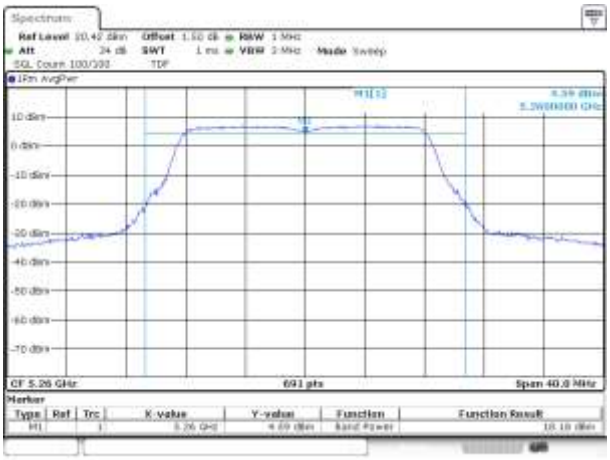
UNII-1 / 802.11a / 5 180 ㎒	UNII-2A / 802.11a / 5 260 ㎒
	
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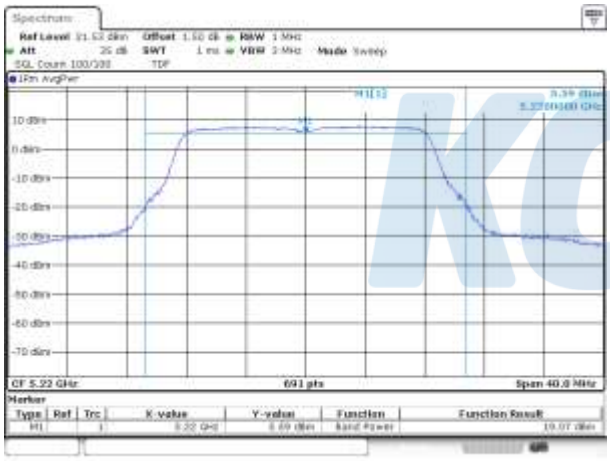	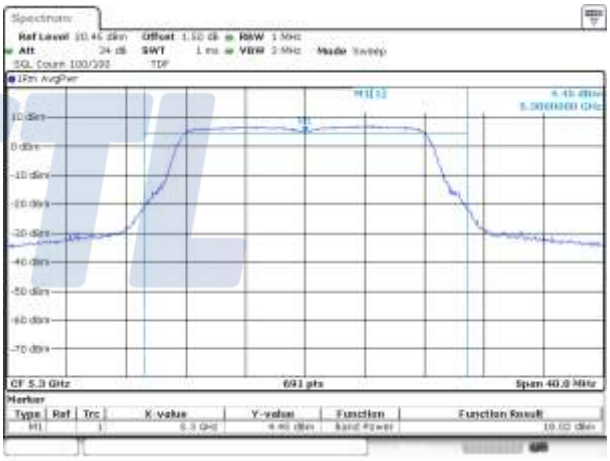
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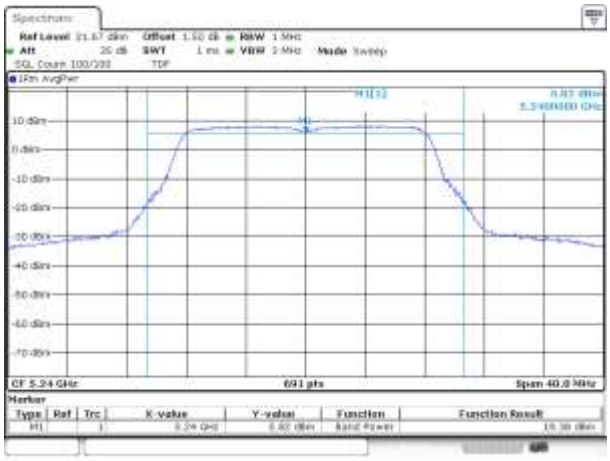
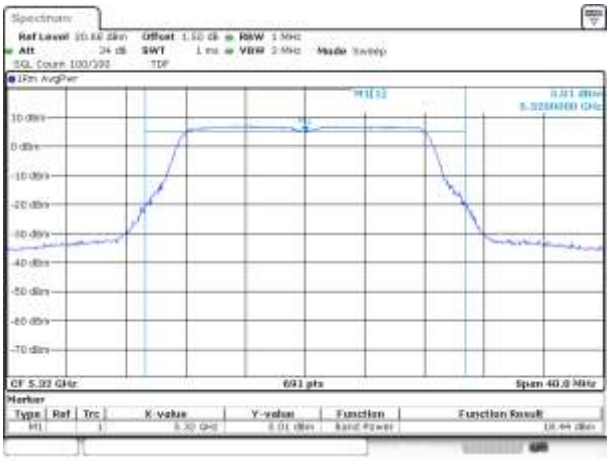
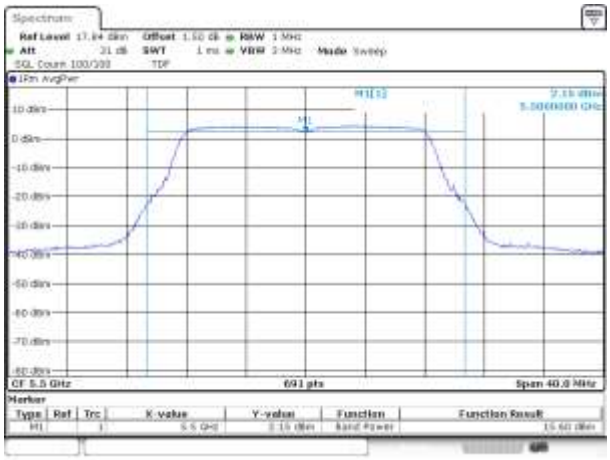
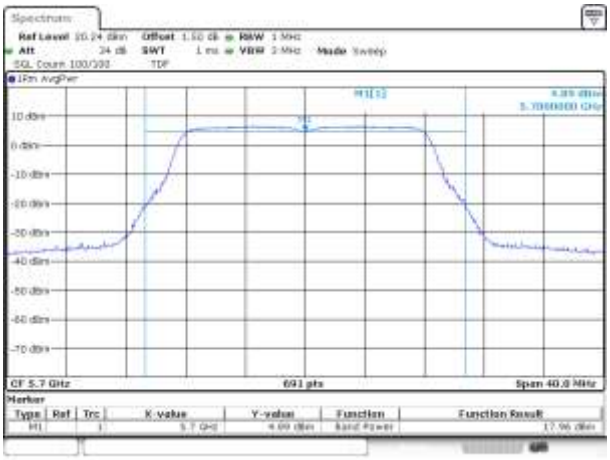
	

UNII-2C / 802.11a / 5 500 ㎒	UNII-2C / 802.11a / 5 700 ㎒
	
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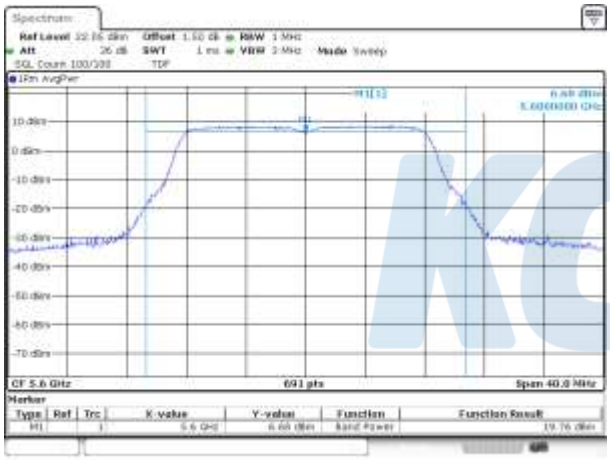
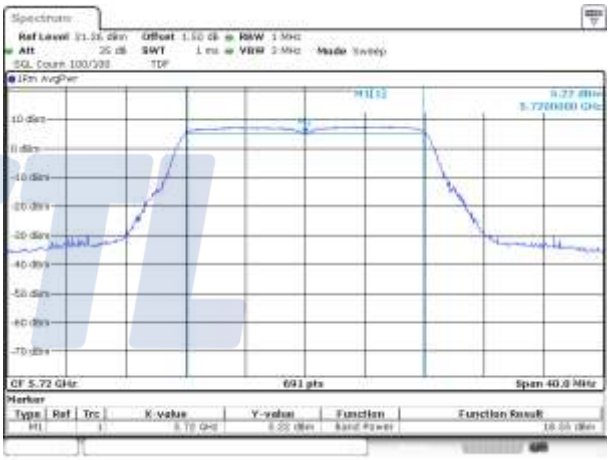
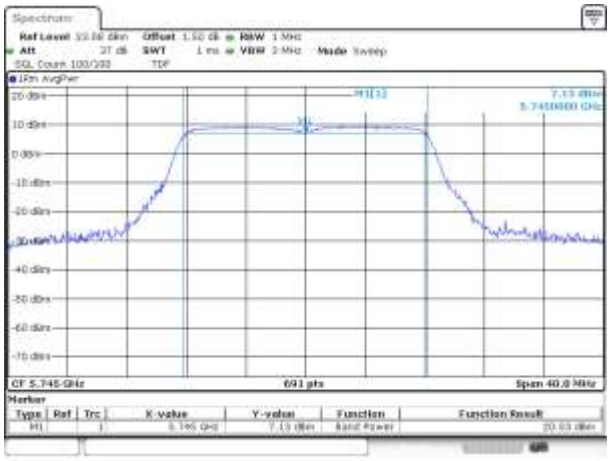
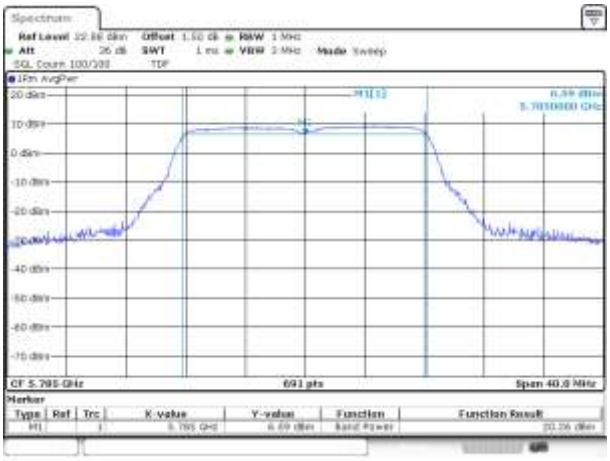
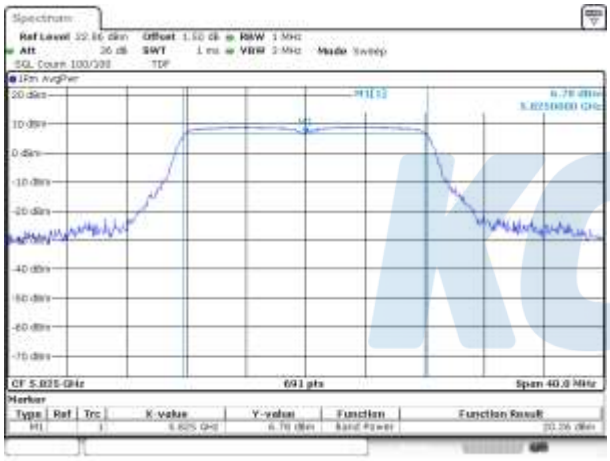
	

UNII-3 / 802.11a / 5 745 ㎒	UNII-3 / 802.11a / 5 785 ㎒
	
UNII-3 / 802.11a / 5 825 ㎒	**-**
	Blank

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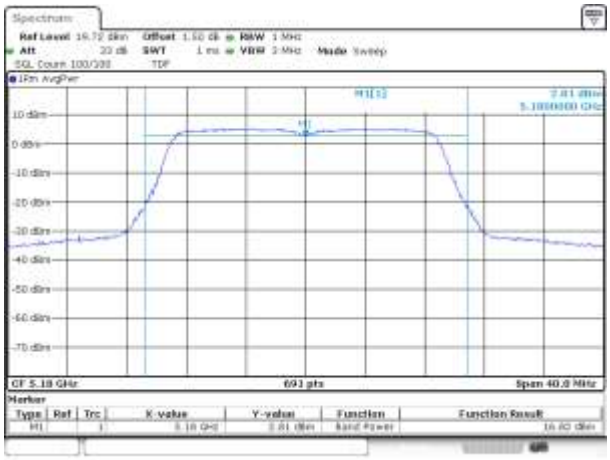
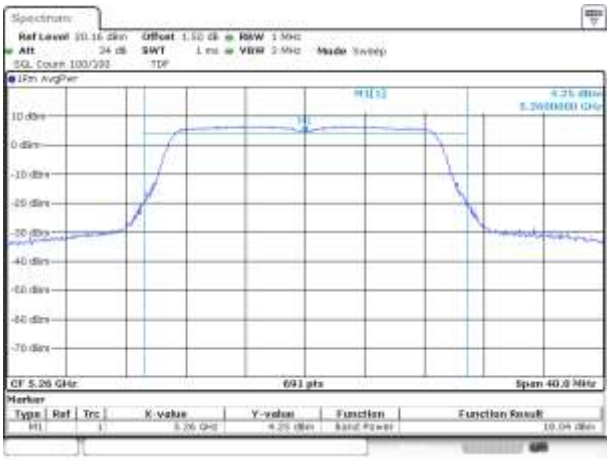
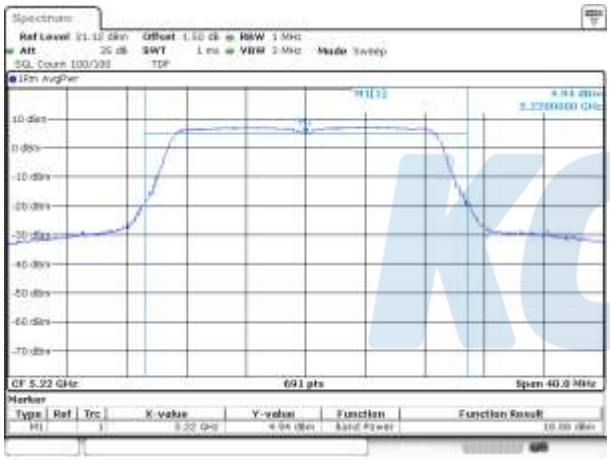
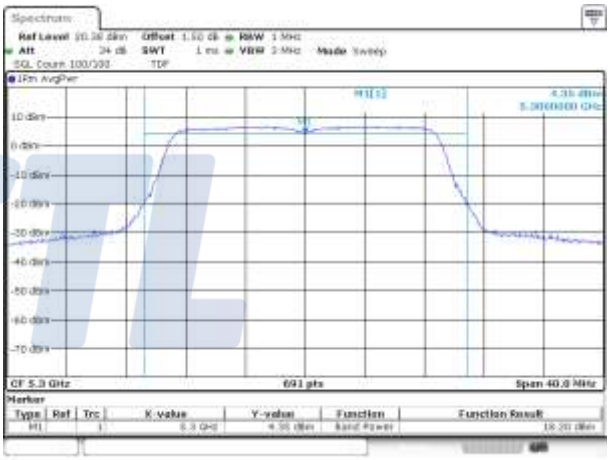
	
UNII-1 / 802.11n HT20 / 5 220 ㎒	**UNII-2A / 802.11n HT20 / 5 300 ㎒**
	
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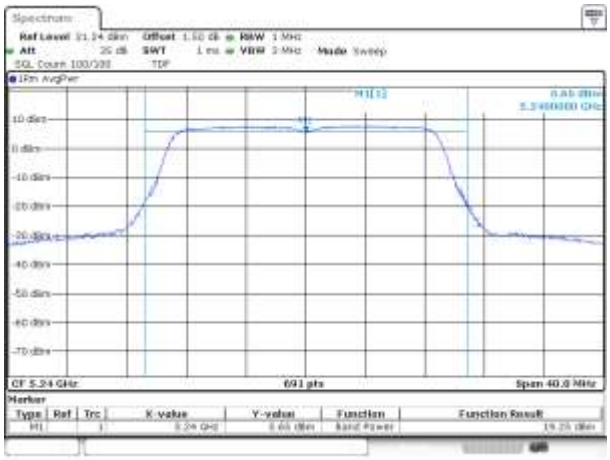
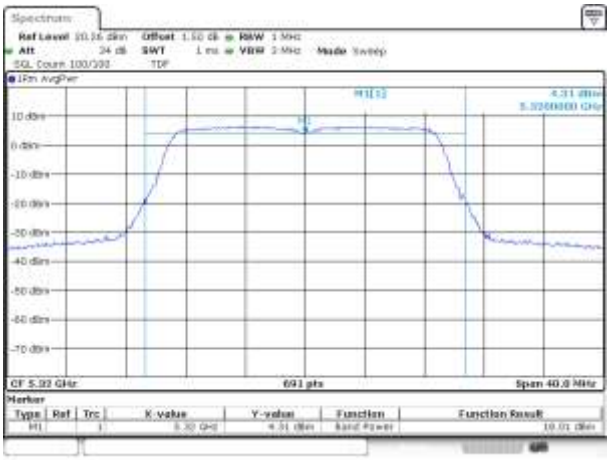
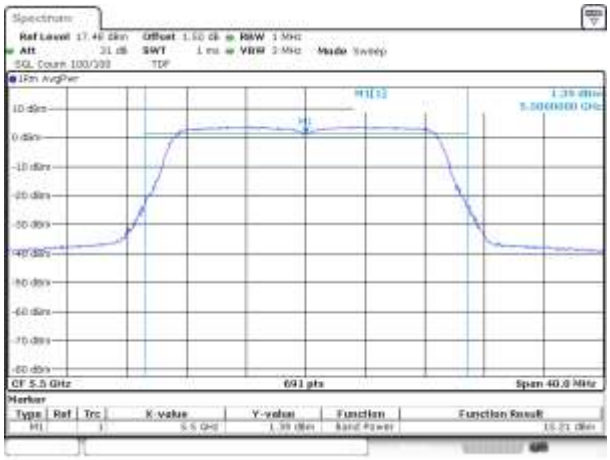
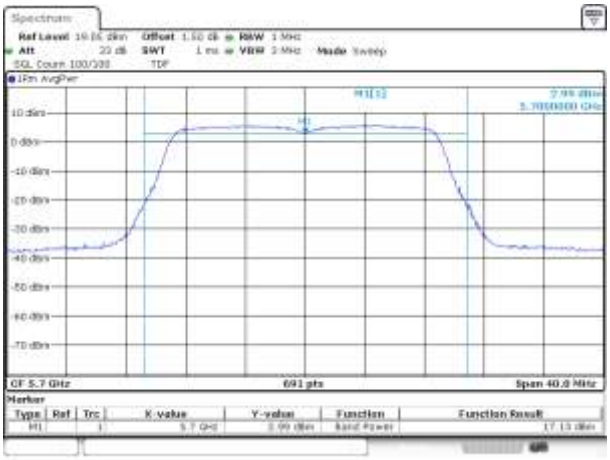
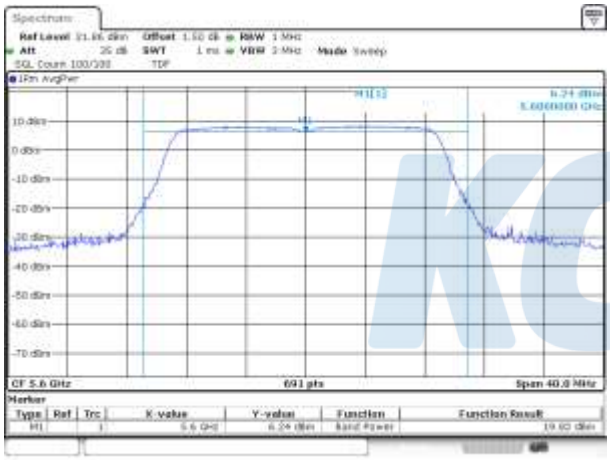
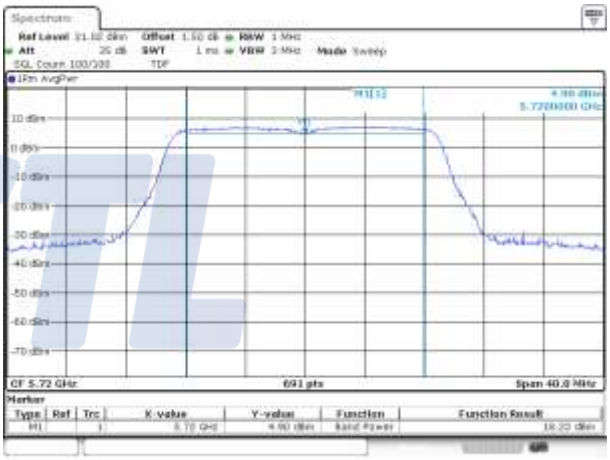
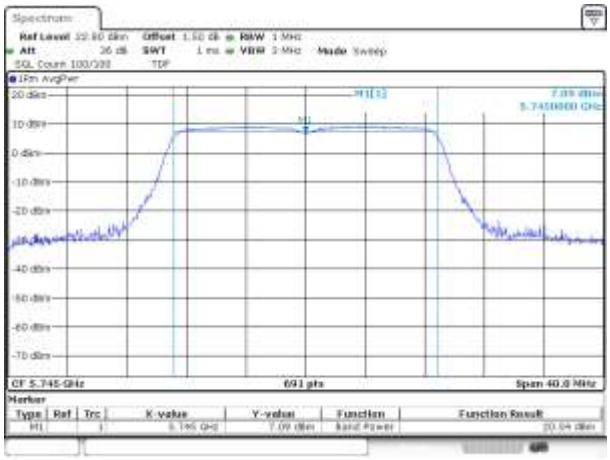
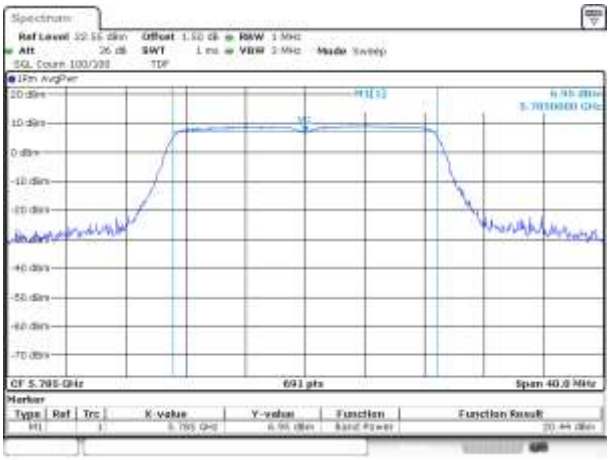
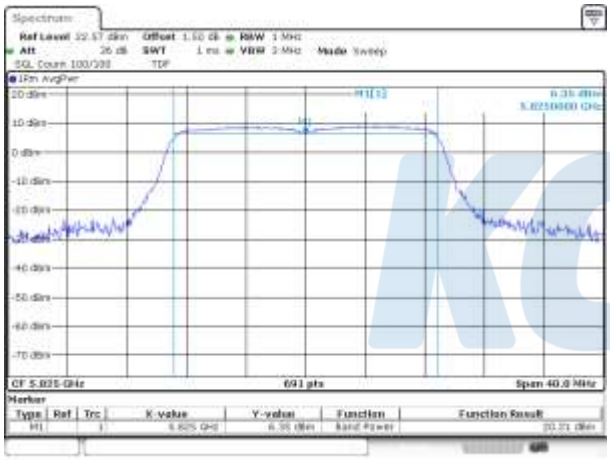
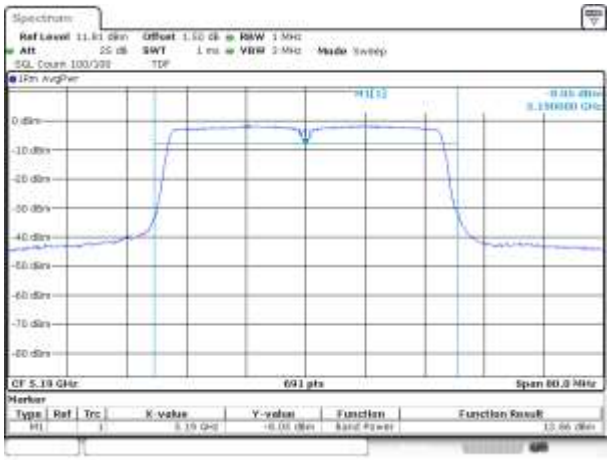
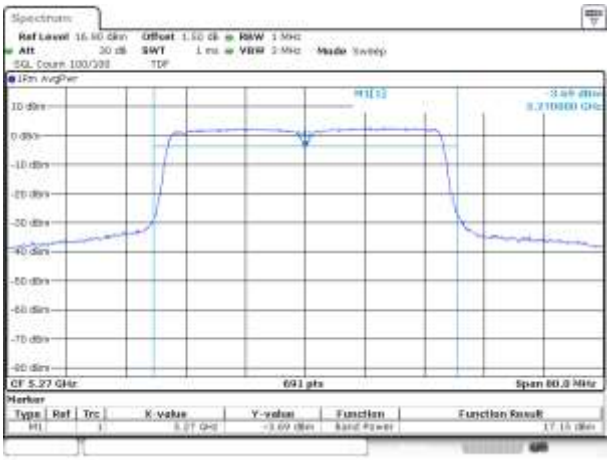
	

UNII-2C / 802.11n HT20 / 5 500 ㎒	UNII-2C / 802.11n HT20 / 5 700 ㎒
	
UNII-2C / 802.11n HT20 / 5 600 ㎒	**UNII-2C / 802.11n HT20 / 5 720 ㎒**
	

UNII-3 / 802.11n HT20 / 5 745 ㎒	UNII-3 / 802.11n HT20 / 5 785 ㎒
	
UNII-3 / 802.11n HT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11n HT40 / 5 190 ㎒	UNII-2A / 802.11n HT40 / 5 270 ㎒
	
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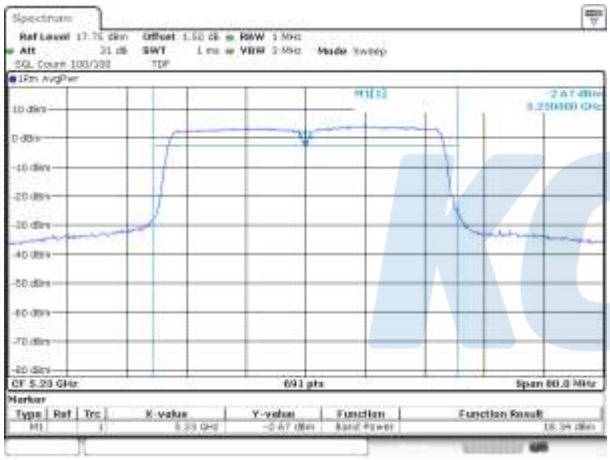
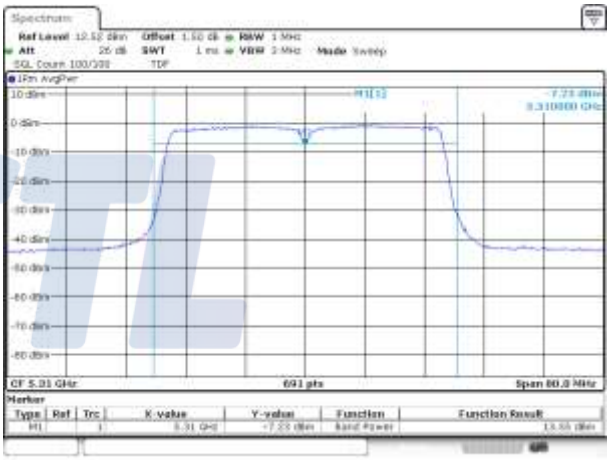
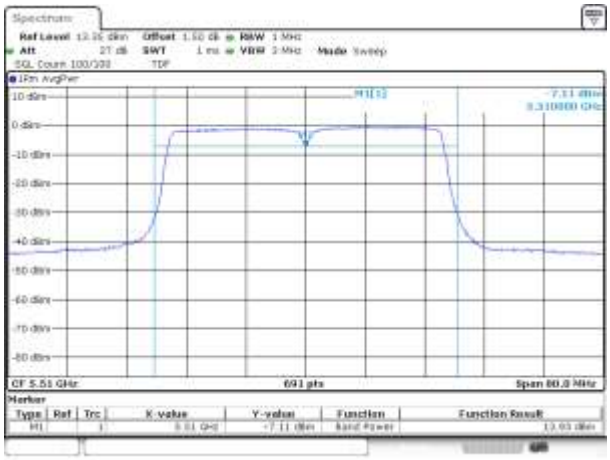
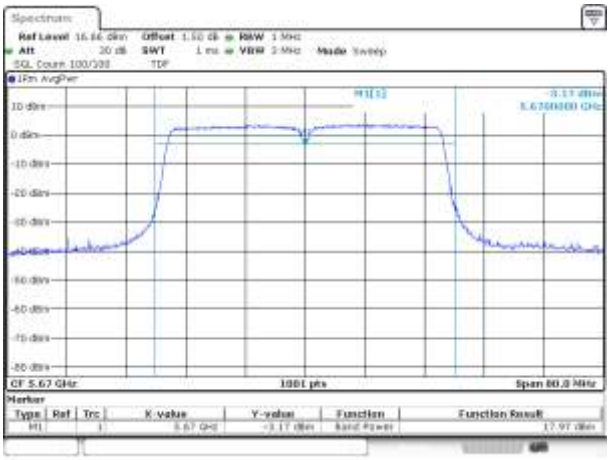
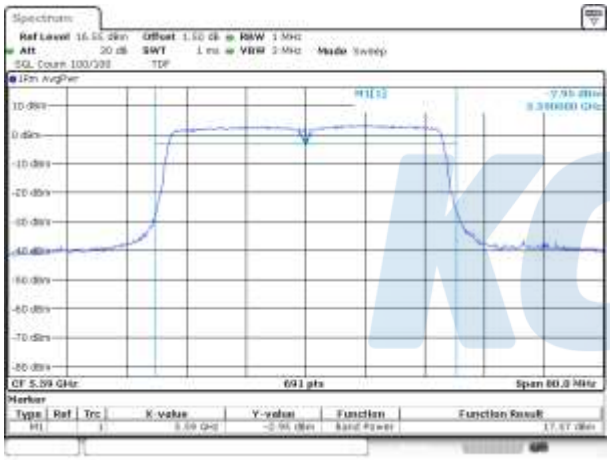
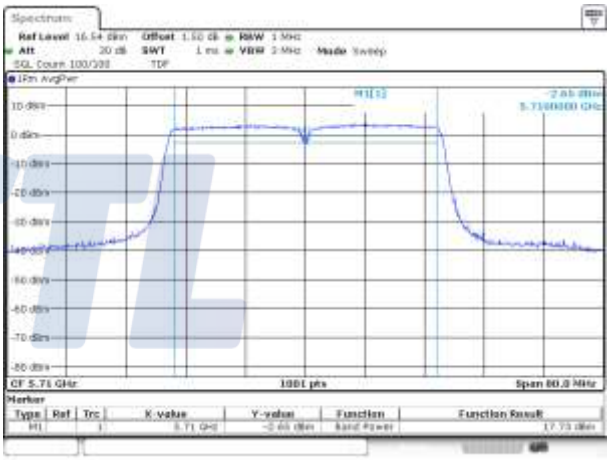
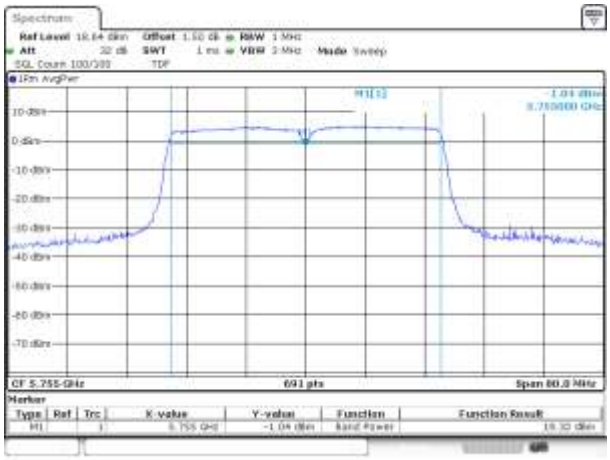
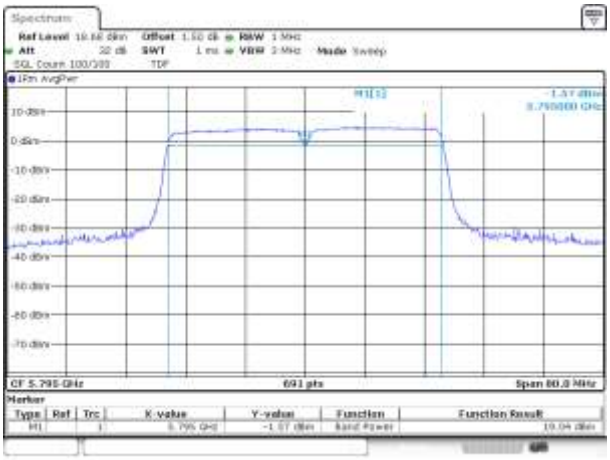
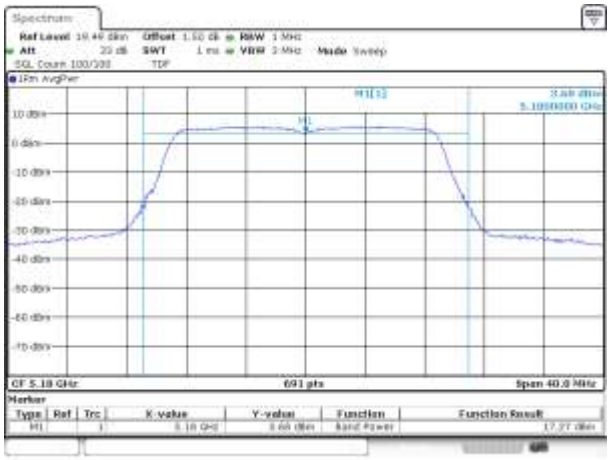
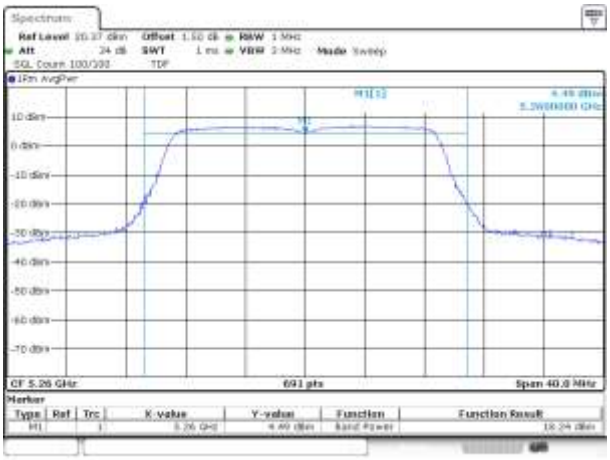
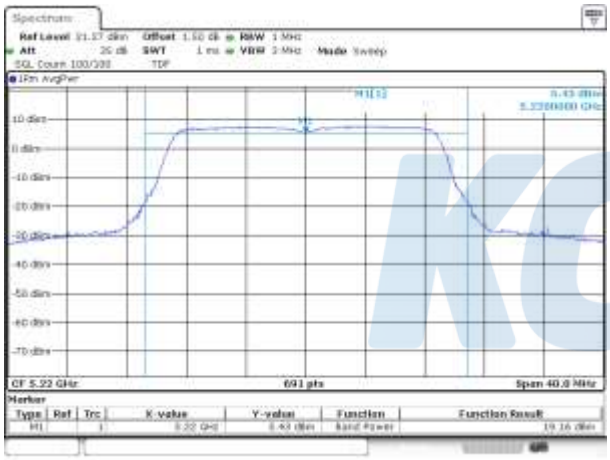
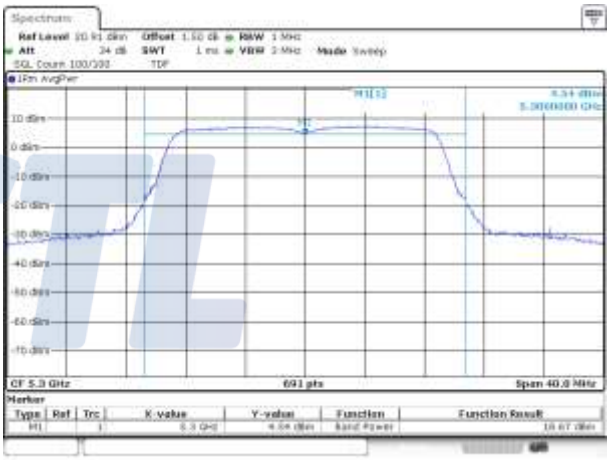
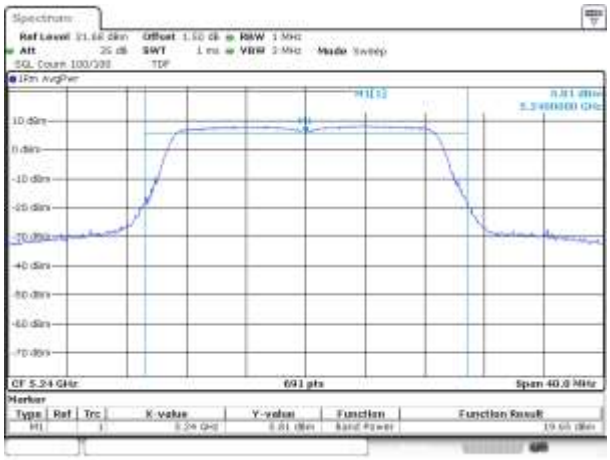
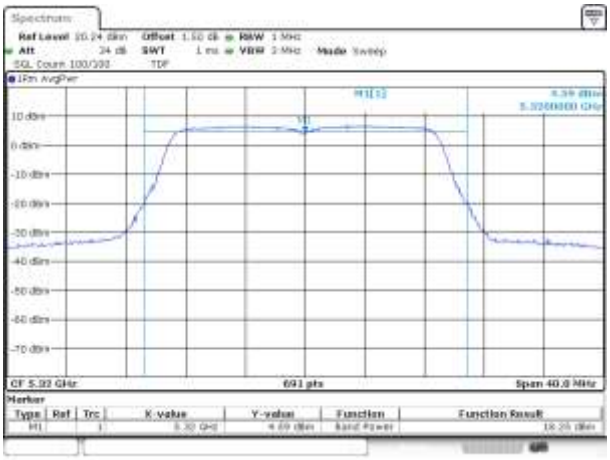
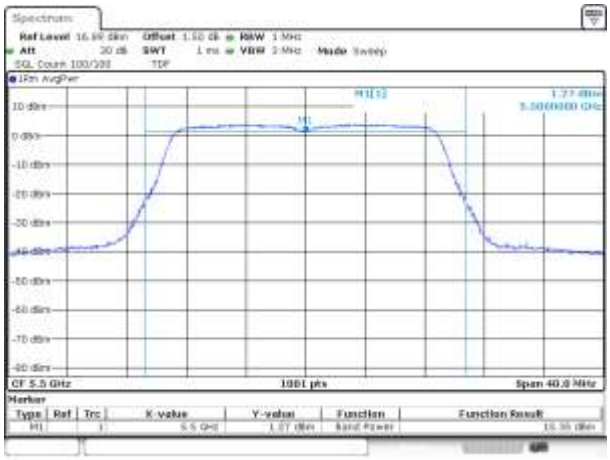
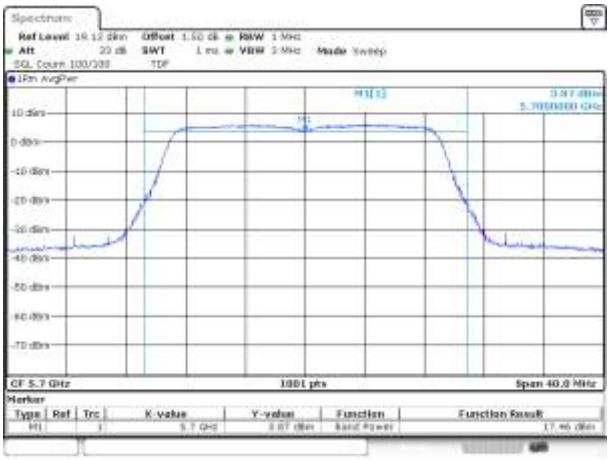
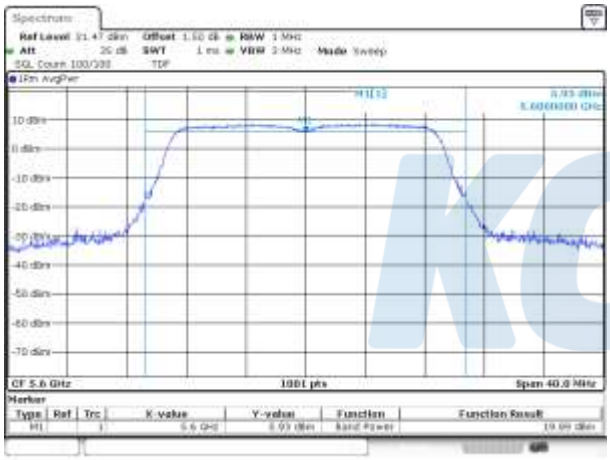
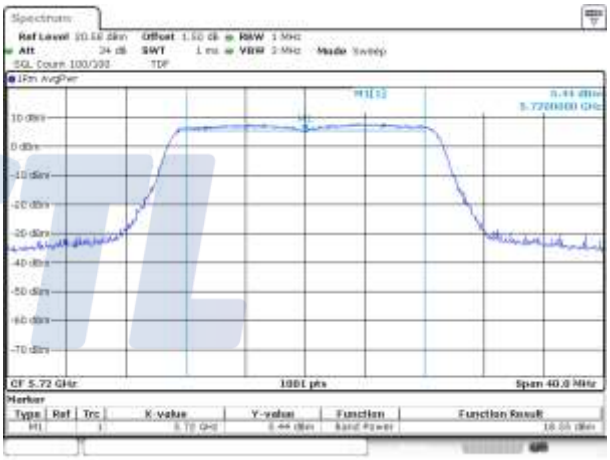
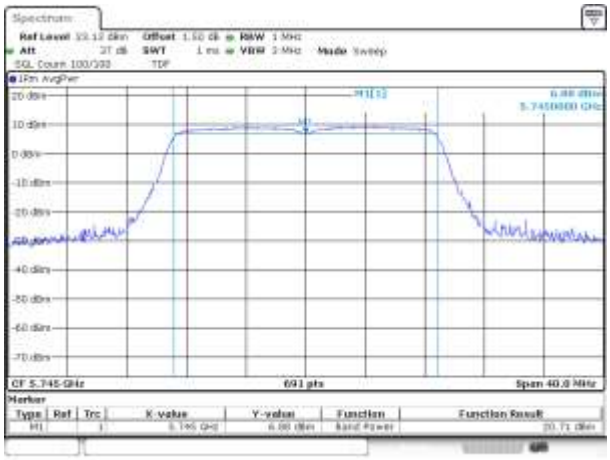
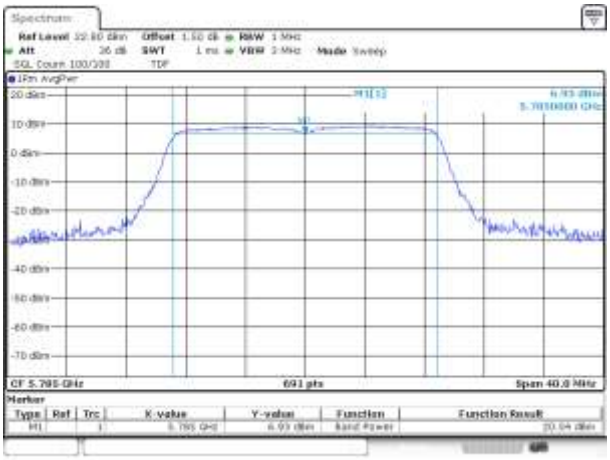
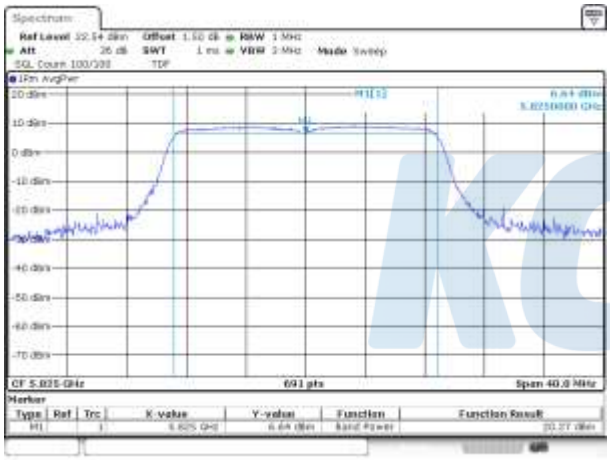
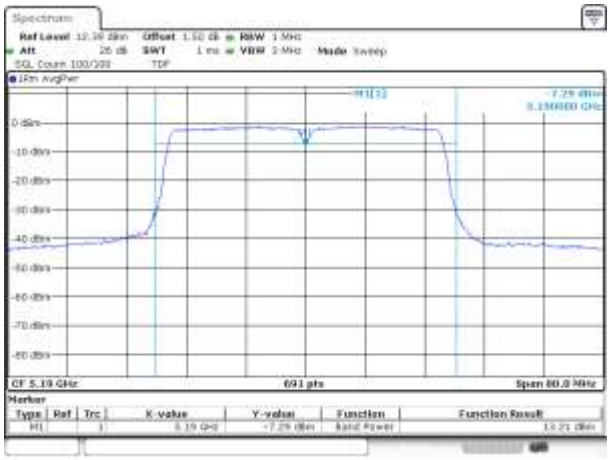
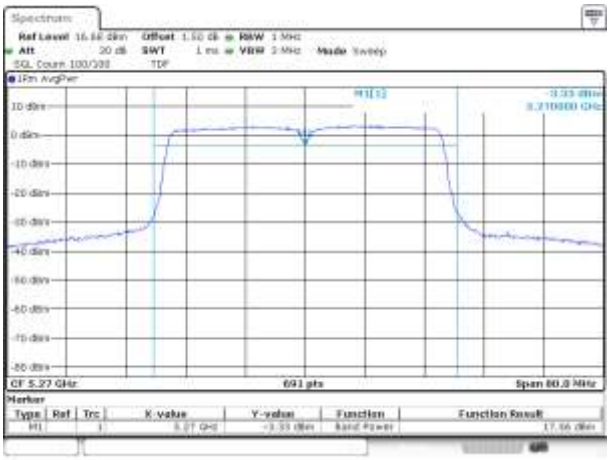
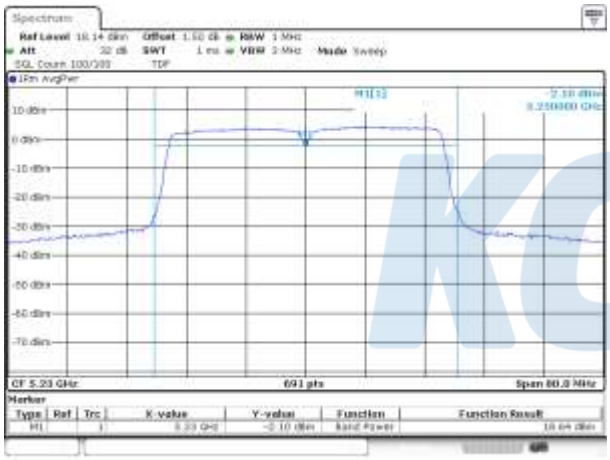
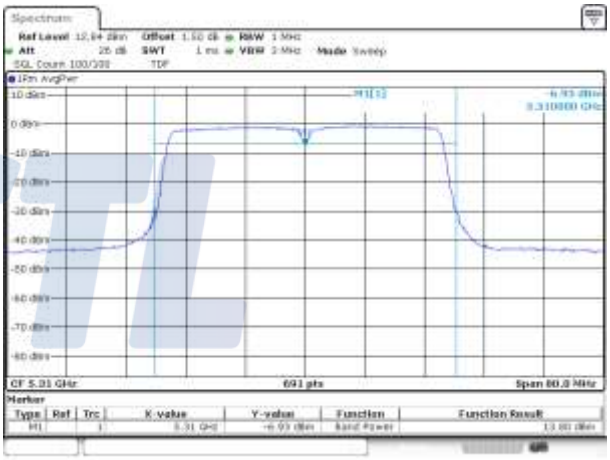
	

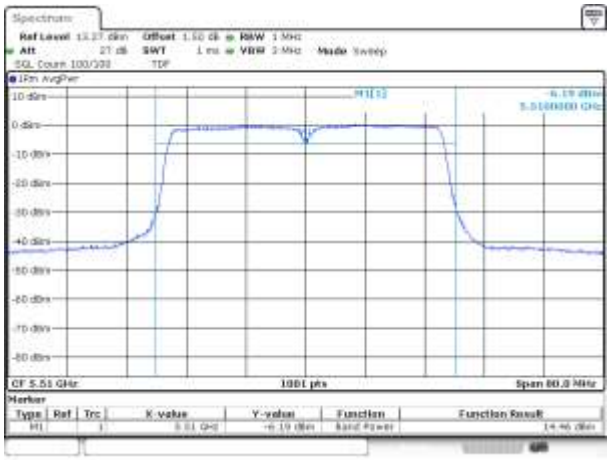
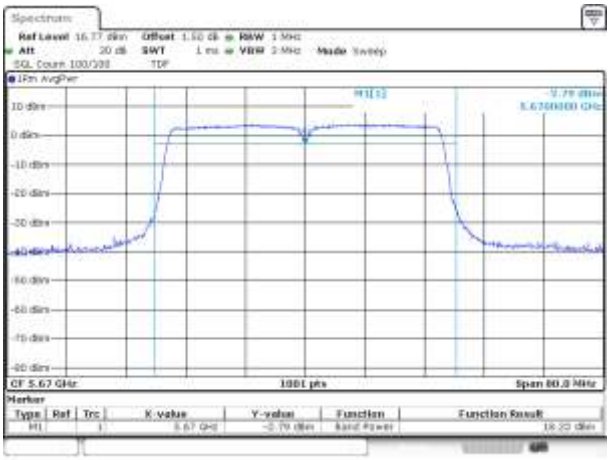
UNII-2C / 802.11n HT40 / 5 510 ㎒	UNII-2C / 802.11n HT40 / 5 670 ㎒
	
UNII-2C / 802.11n HT40 / 5 590 ㎒	**UNII-2C / 802.11n HT40 / 5 710 ㎒**
	
UNII-3 / 802.11n HT40 / 5 755 ㎒	**UNII-3 / 802.11n HT40 / 5 795 ㎒**
	

UNII-1 / 802.11ac VHT20 / 5 180 ㎒	UNII-2A / 802. 11ac VHT20 / 5 260 ㎒
	
UNII-1 / 802. 11ac VHT20 / 5 220 ㎒	**UNII-2A / 802. 11ac VHT20 / 5 300 ㎒**
	
UNII-1 / 802. 11ac VHT20 / 5 240 ㎒	**UNII-2A / 802. 11ac VHT20 / 5 320 ㎒**
	

UNII-2C / 802.11ac VHT20 / 5 500 ㎒	UNII-2C / 802.11ac VHT20 / 5 700 ㎒
	
UNII-2C / 802.11ac VHT20 / 5 600 ㎒	**UNII-2C / 802.11ac VHT20 / 5 720 ㎒**
	

UNII-3 / 802.11ac VHT20 / 5 745 ㎒	UNII-3 / 802.11ac VHT20 / 5 785 ㎒
	
UNII-3 / 802.11ac VHT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11ac VHT40 / 5 190 ㎒	UNII-2A / 802.11ac VHT40 / 5 270 ㎒
	
UNII-1 / 802.11ac VHT40 / 5 230 ㎒	**UNII-2A / 802.11ac VHT40 / 5 310 ㎒**
	

UNII-2C / 802.11ac VHT40 / 5 510 ㎒	UNII-2C / 802.11ac VHT40 / 5 670 ㎒
	
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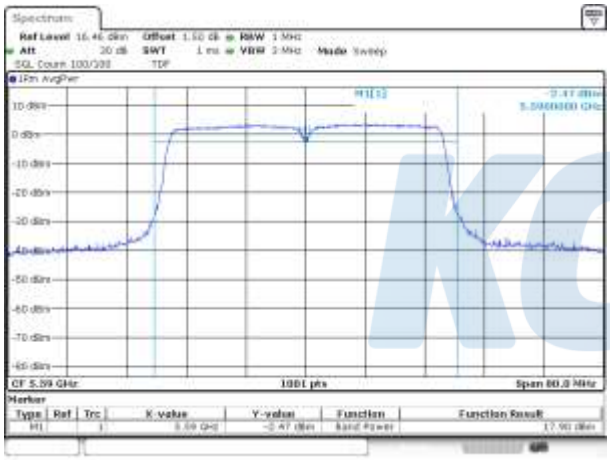
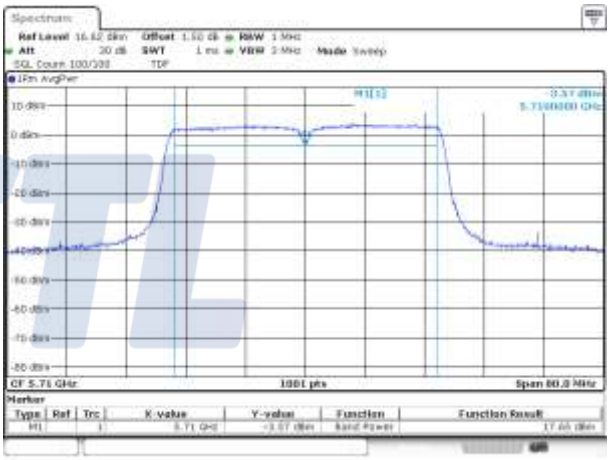
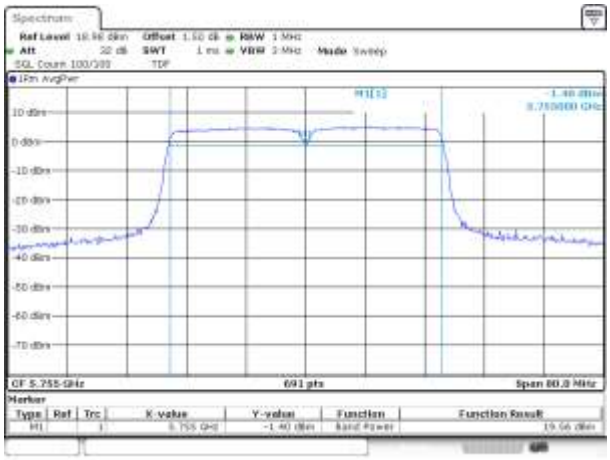
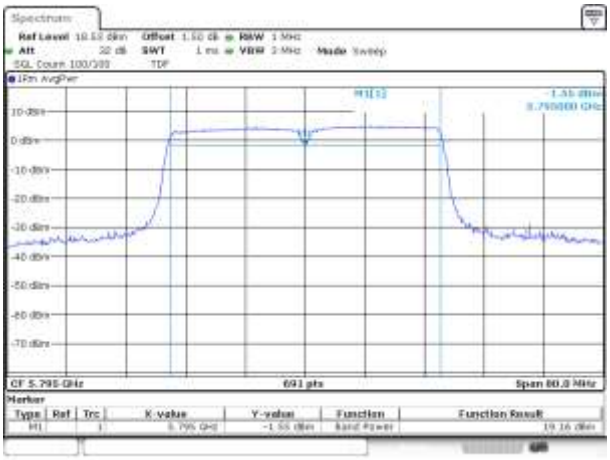
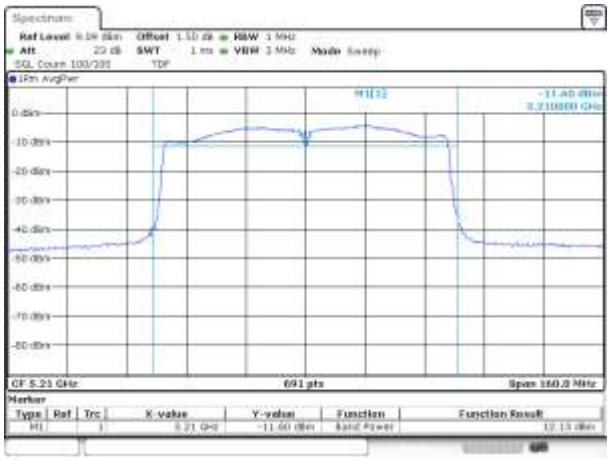
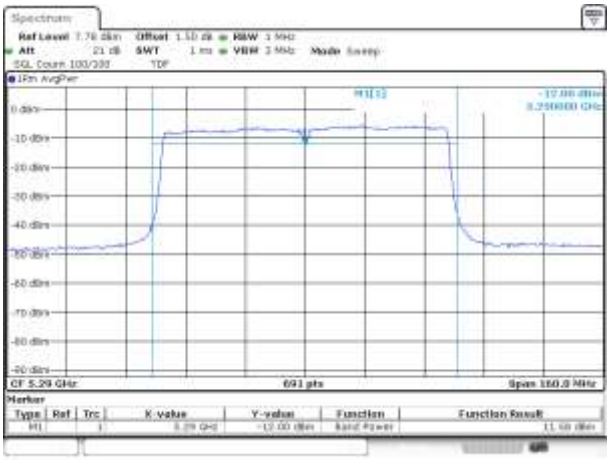
	
UNII-3 / 802.11ac VHT40 / 5 755 ㎒	**UNII-3 / 802.11ac VHT40 / 5 795 ㎒**
	

UNII-1 / 802.11ac VHT80 / 5 210 ㎒	UNII-2A / 802.11ac VHT80 / 5 290 ㎒
	
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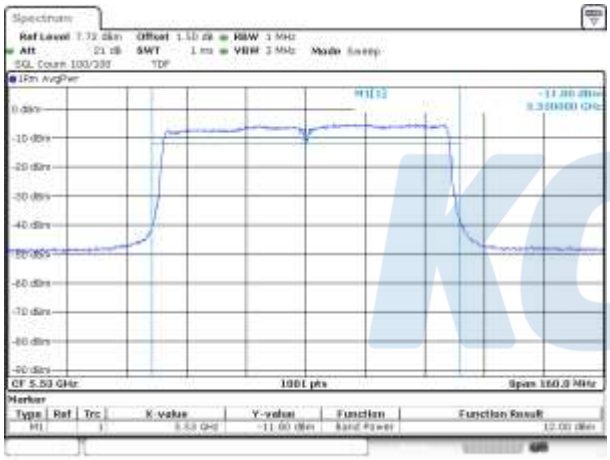	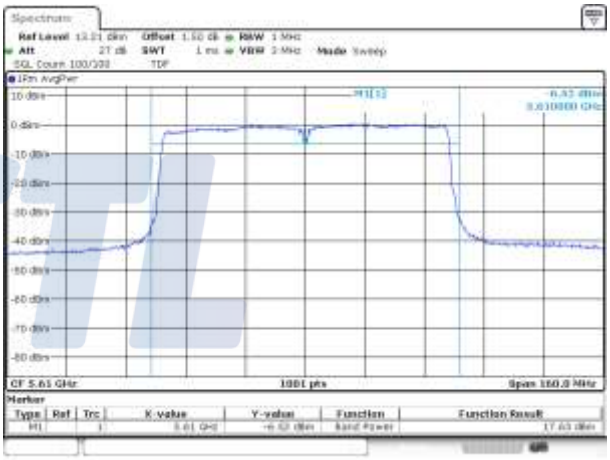
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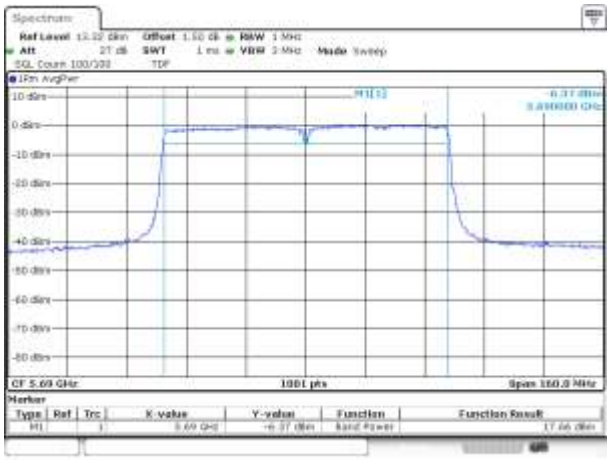	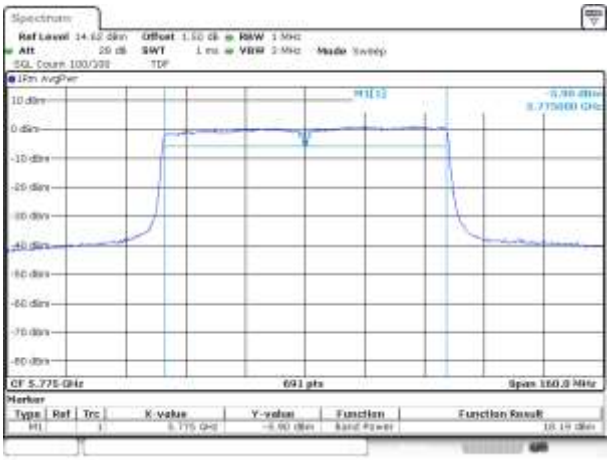

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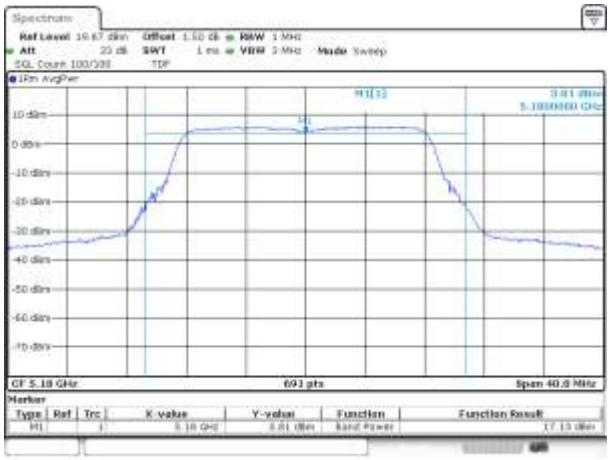
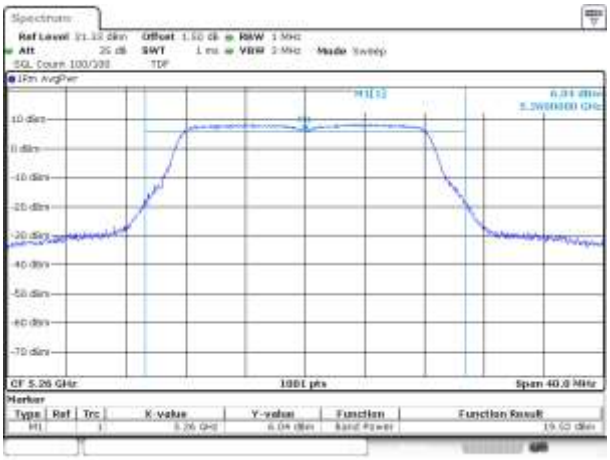
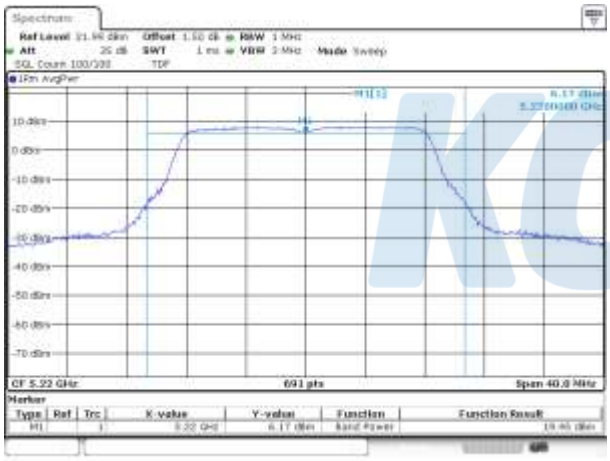
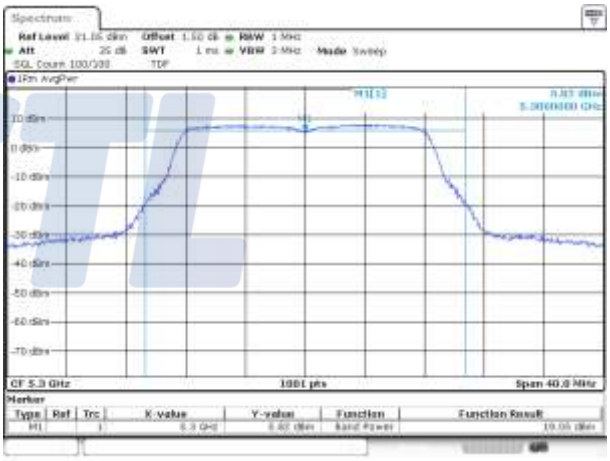
UNII-1 / 802.11a / 5 180 ㎒	UNII-2A / 802.11a / 5 260 ㎒
	
UNII-1 / 802.11a / 5 220 ㎒	**UNII-2A / 802.11a / 5 300 ㎒**
	
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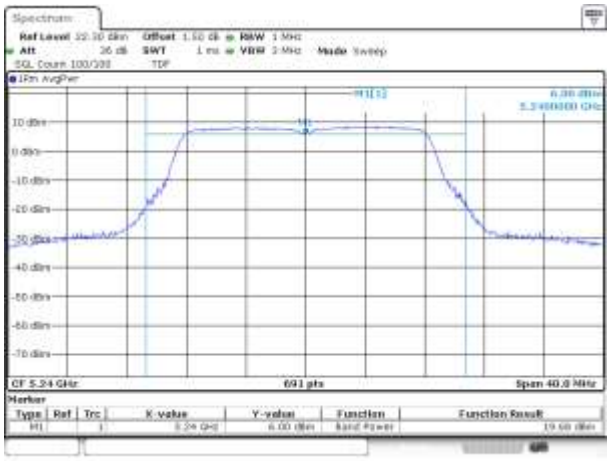
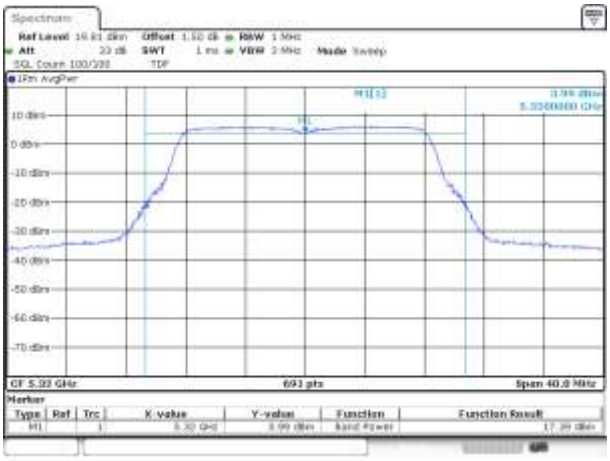
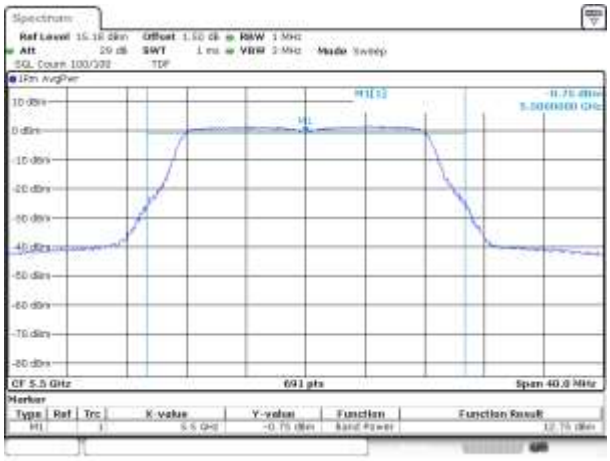
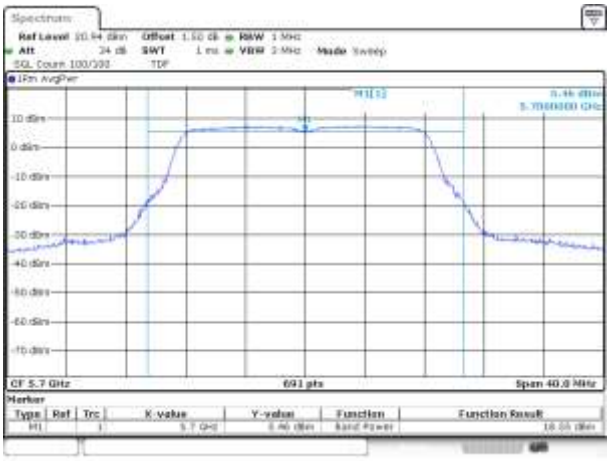
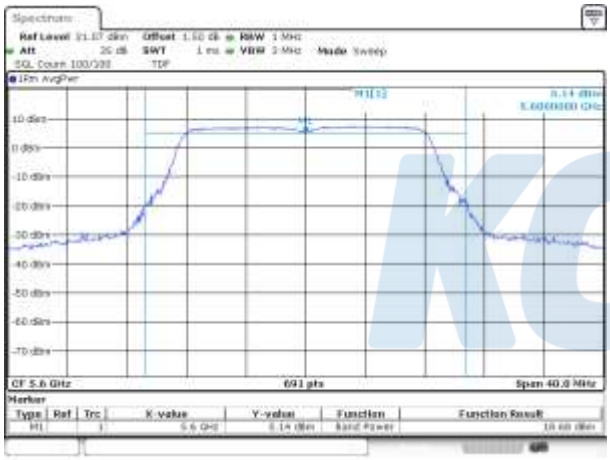
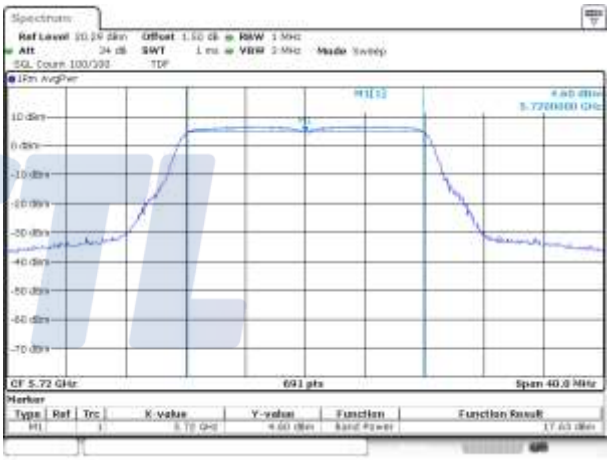
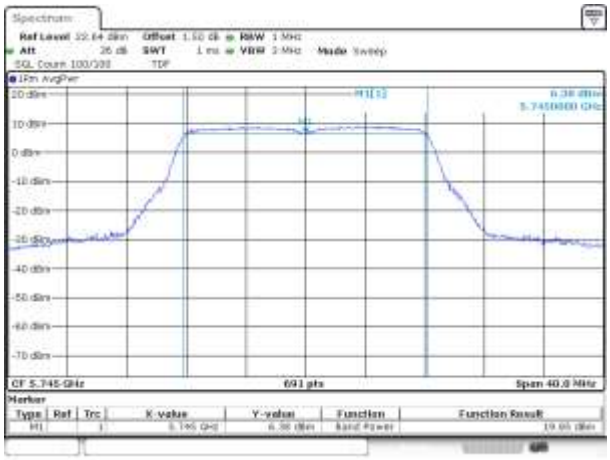
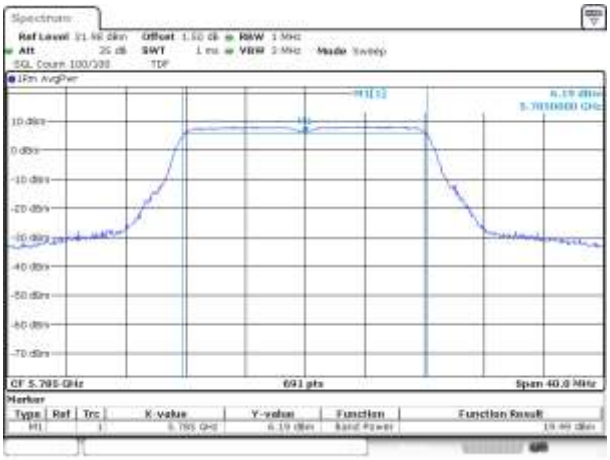
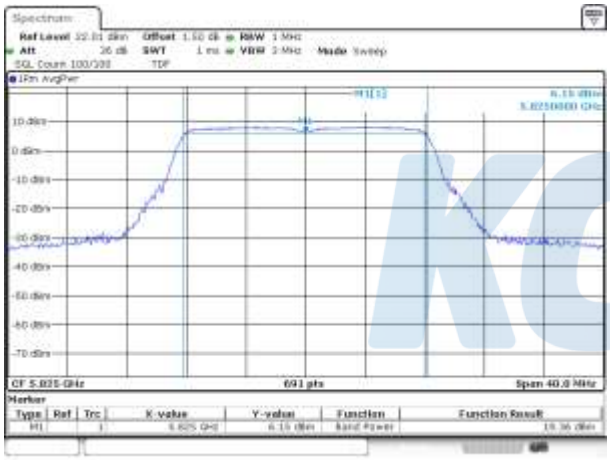
	

UNII-2C / 802.11a / 5 500 ㎒	UNII-2C / 802.11a / 5 700 ㎒
	
UNII-2C / 802.11a / 5 600 ㎒	**UNII-2C / 802.11a / 5 720 ㎒**
	

UNII-3 / 802.11a / 5 745 ㎒	UNII-3 / 802.11a / 5 785 ㎒
	
UNII-3 / 802.11a / 5 825 ㎒	**-**
	Blank

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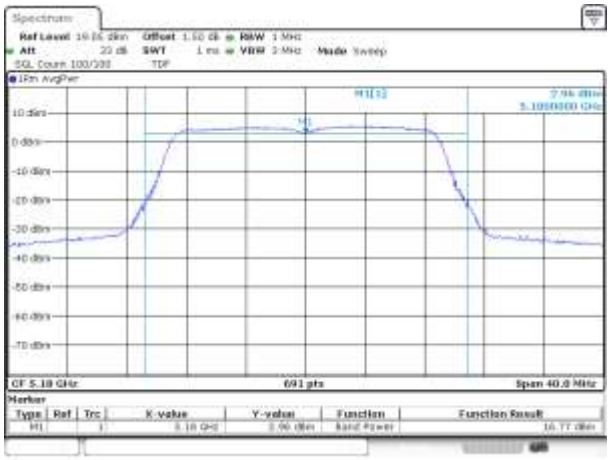
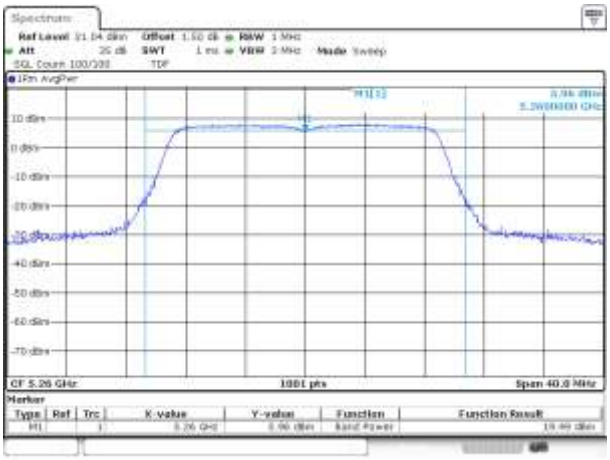
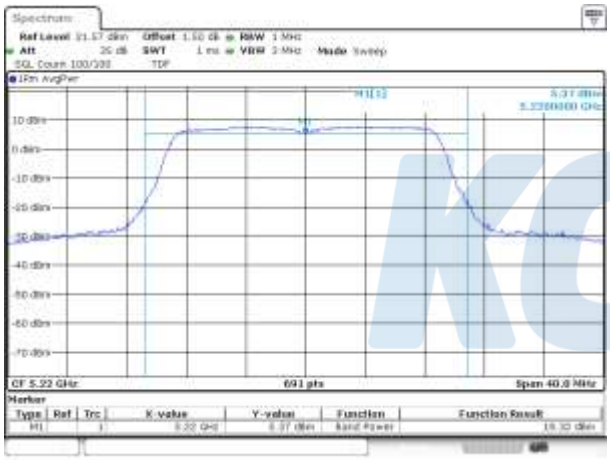
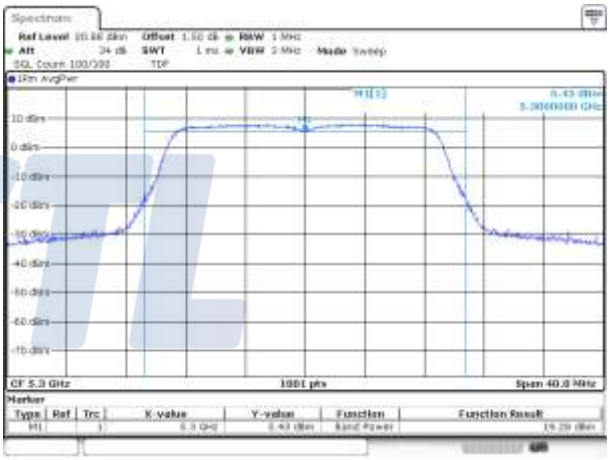
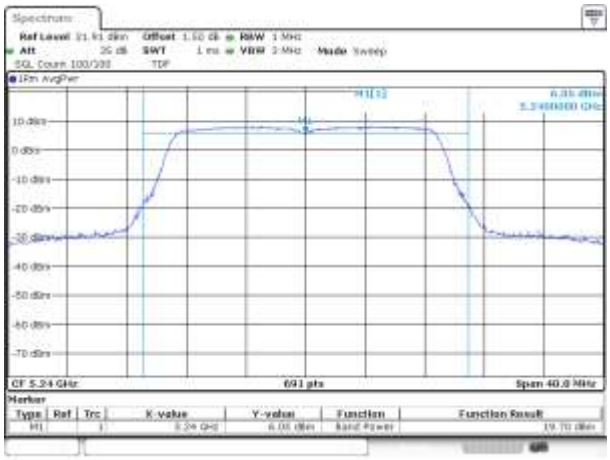
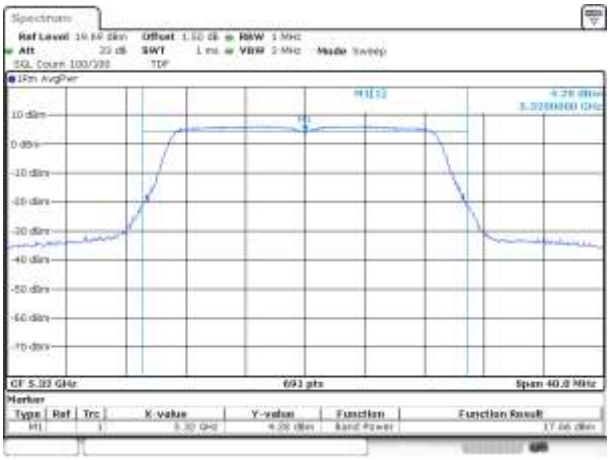
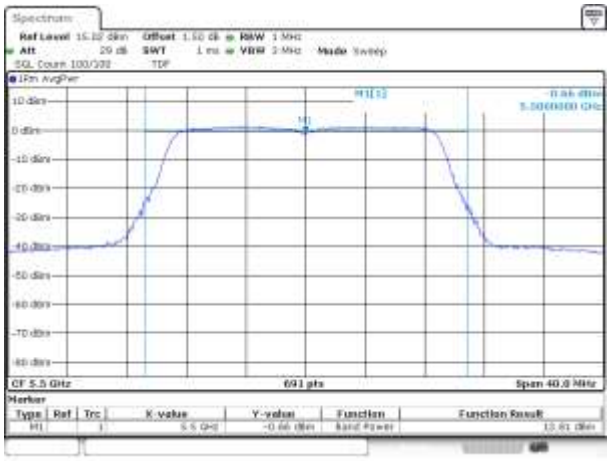
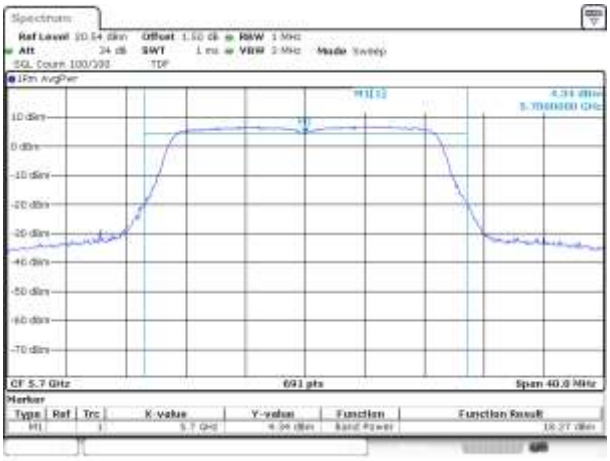
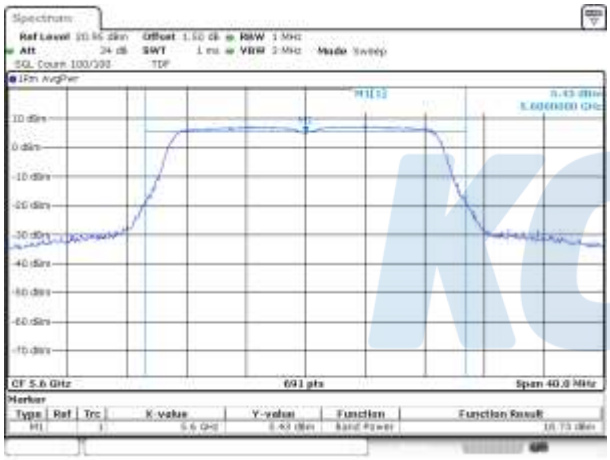
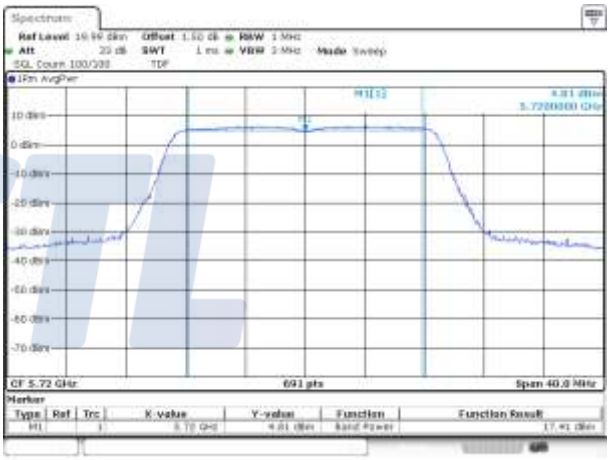
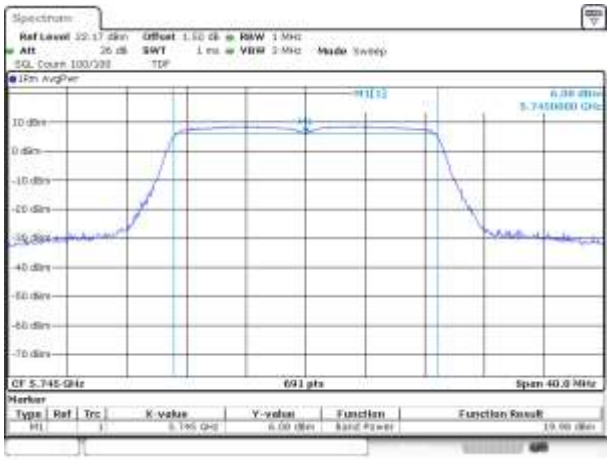
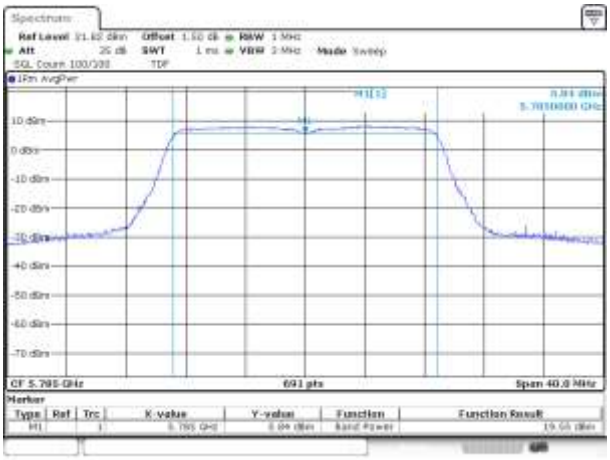
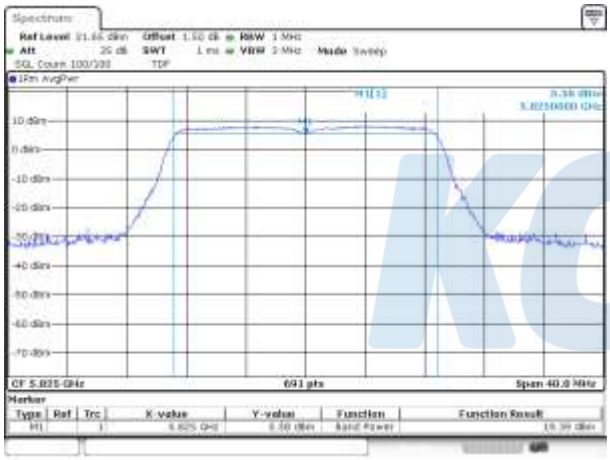
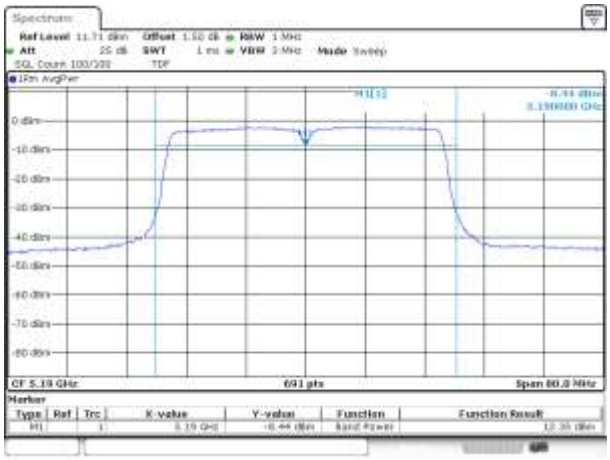
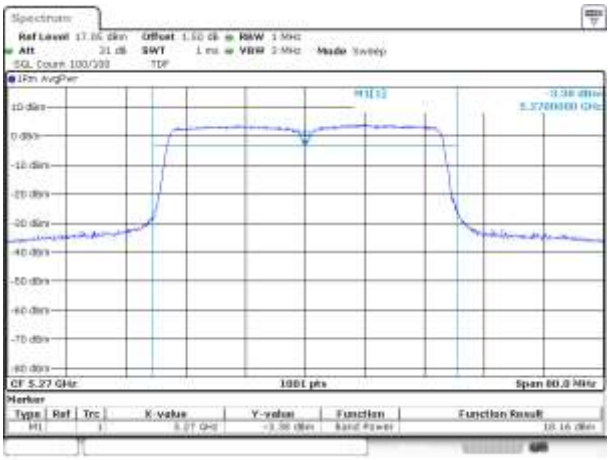
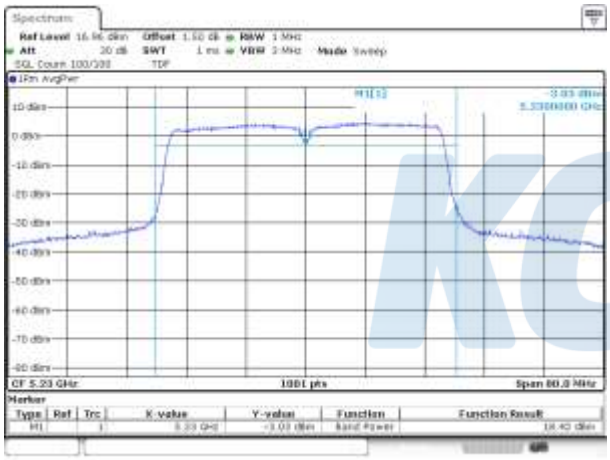
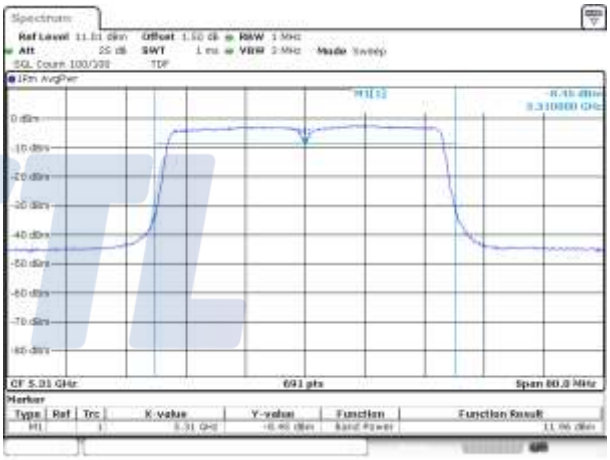
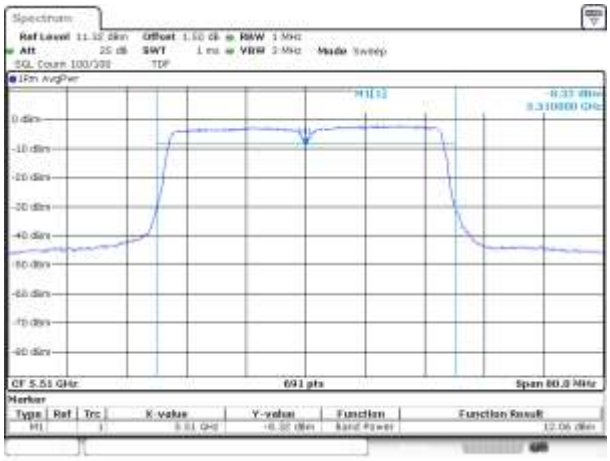
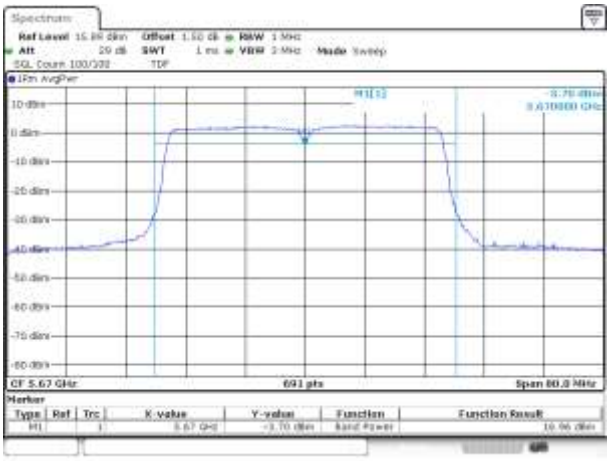
	
UNII-1 / 802.11n HT20 / 5 220 ㎒	**UNII-2A / 802.11n HT20 / 5 300 ㎒**
	
UNII-1 / 802.11n HT20 / 5 240 ㎒	**UNII-2A / 802.11n HT20 / 5 320 ㎒**
	

UNII-2C / 802.11n HT20 / 5 500 ㎒	UNII-2C / 802.11n HT20 / 5 700 ㎒
	
UNII-2C / 802.11n HT20 / 5 600 ㎒	**UNII-2C / 802.11n HT20 / 5 720 ㎒**
	

UNII-3 / 802.11n HT20 / 5 745 ㎒	UNII-3 / 802.11n HT20 / 5 785 ㎒
	
UNII-3 / 802.11n HT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11n HT40 / 5 190 ㎒	UNII-2A / 802.11n HT40 / 5 270 ㎒
	
UNII-1 / 802.11n HT40 / 5 230 ㎒	**UNII-2A / 802.11n HT40 / 5 310 ㎒**
	

UNII-2C / 802.11n HT40 / 5 510 ㎒	UNII-2C / 802.11n HT40 / 5 670 ㎒
	
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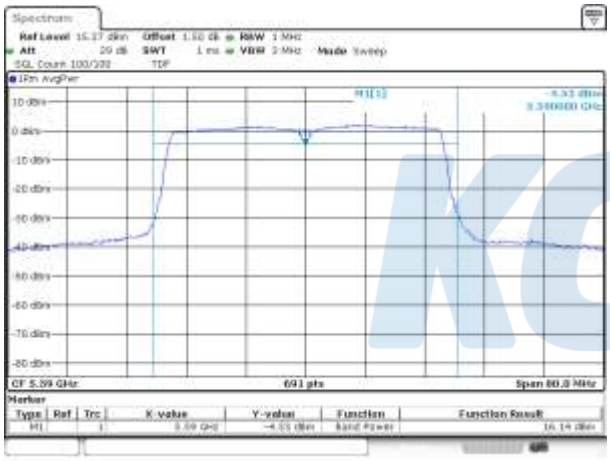	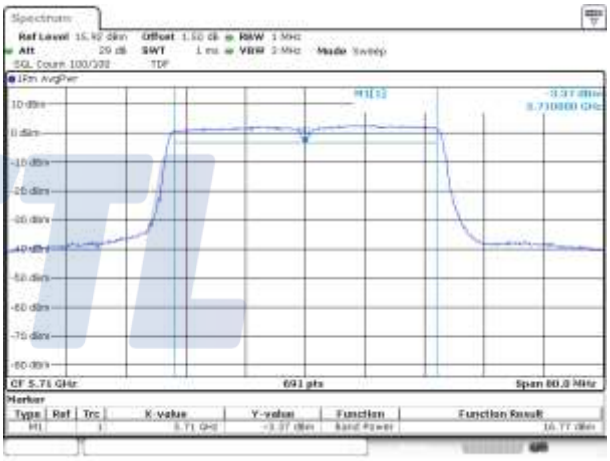
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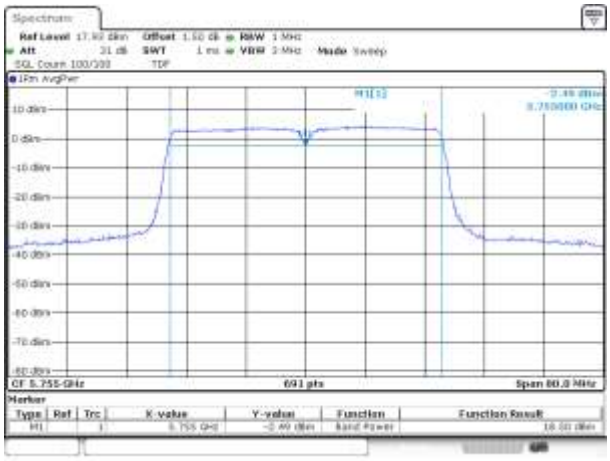
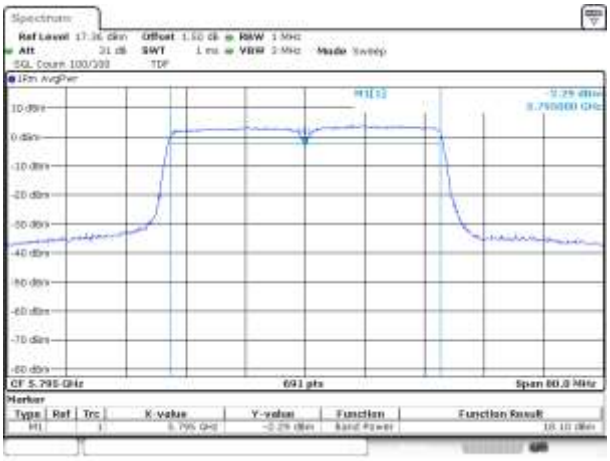
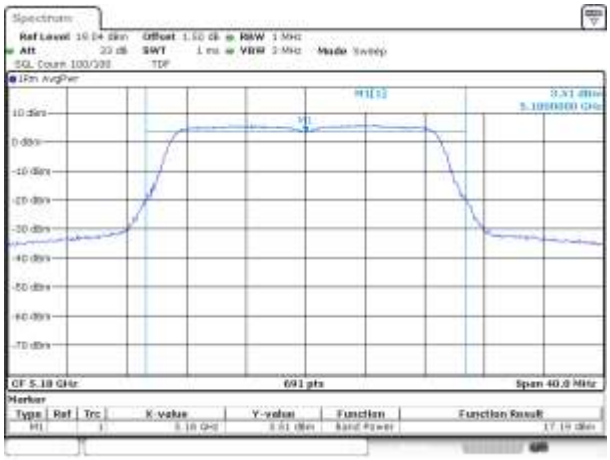
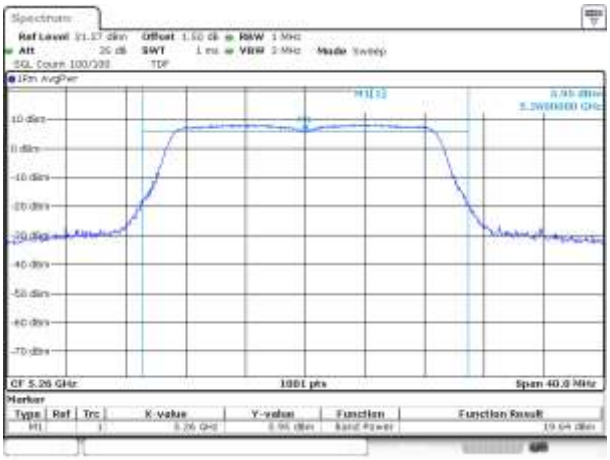
	

UNII-1 / 802.11ac VHT20 / 5 180 ㎒	UNII-2A / 802. 11ac VHT20 / 5 260 ㎒
	
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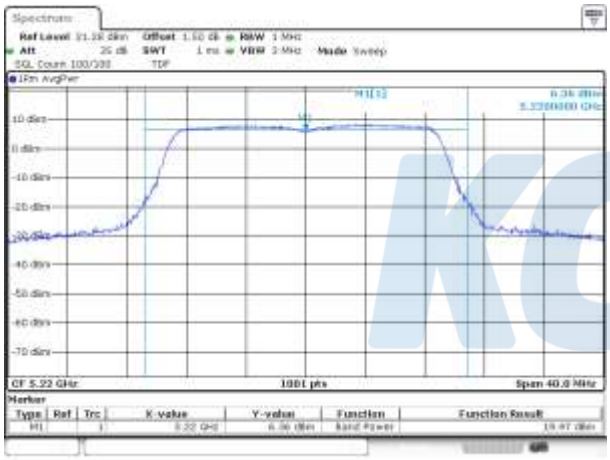	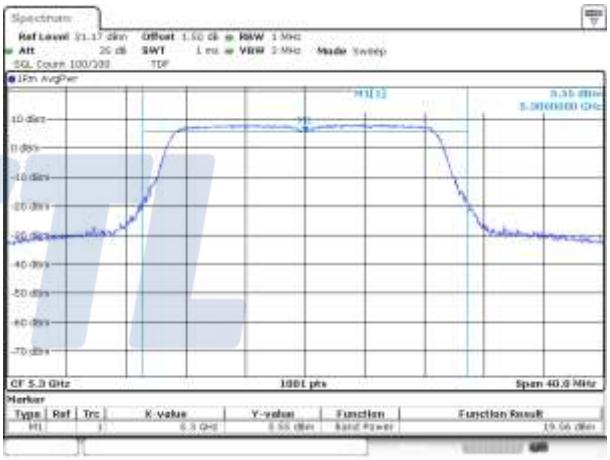
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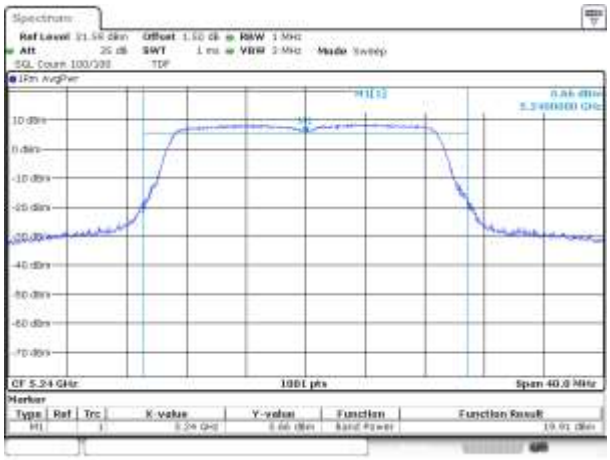
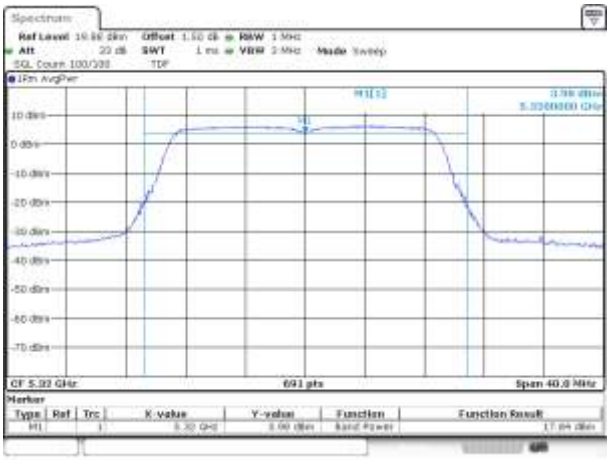
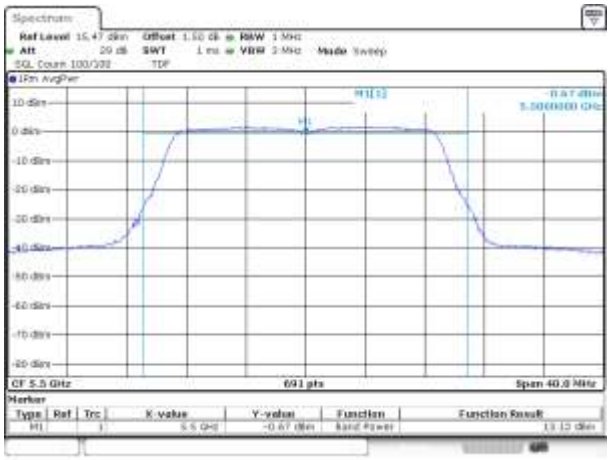
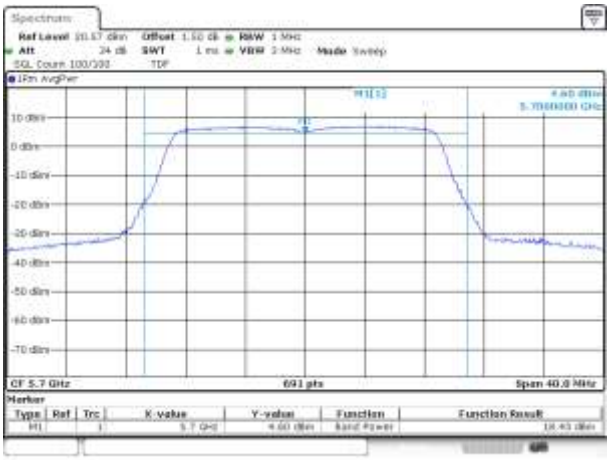
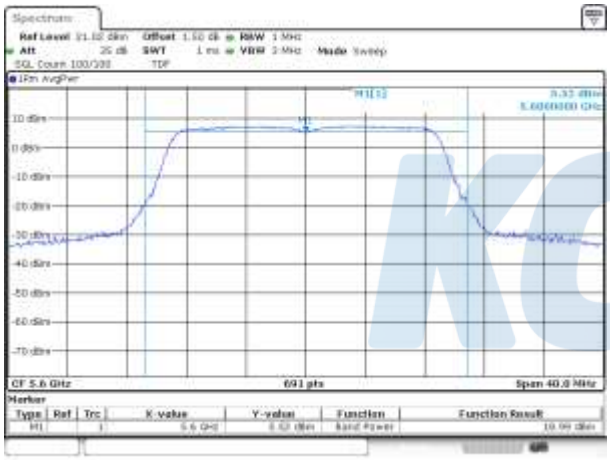
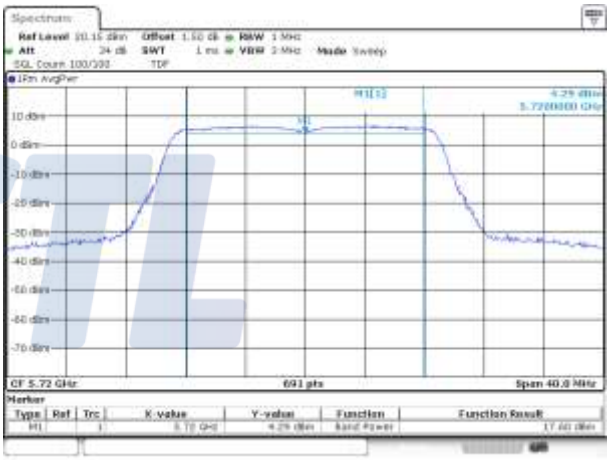
	

UNII-2C / 802.11ac VHT20 / 5 500 ㎒	UNII-2C / 802.11ac VHT20 / 5 700 ㎒
	
UNII-2C / 802.11ac VHT20 / 5 600 ㎒	**UNII-2C / 802.11ac VHT20 / 5 720 ㎒**
	

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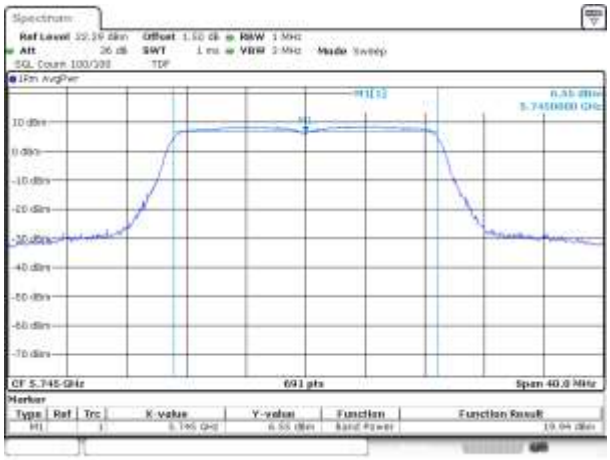
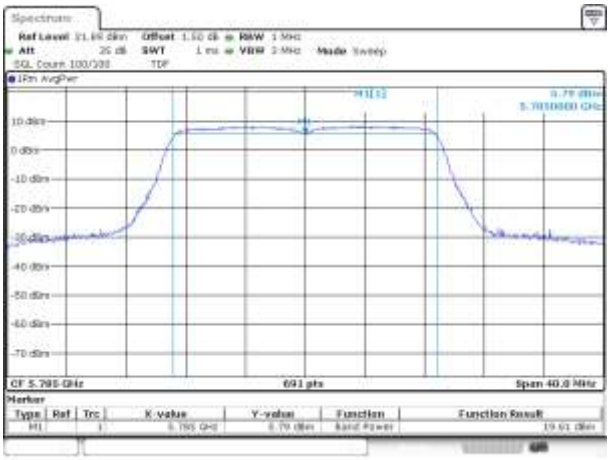
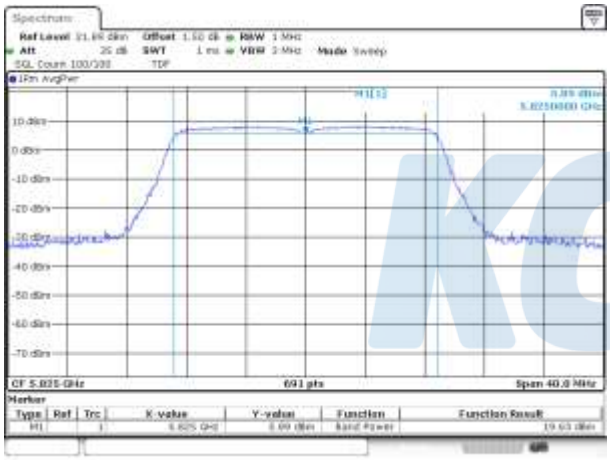
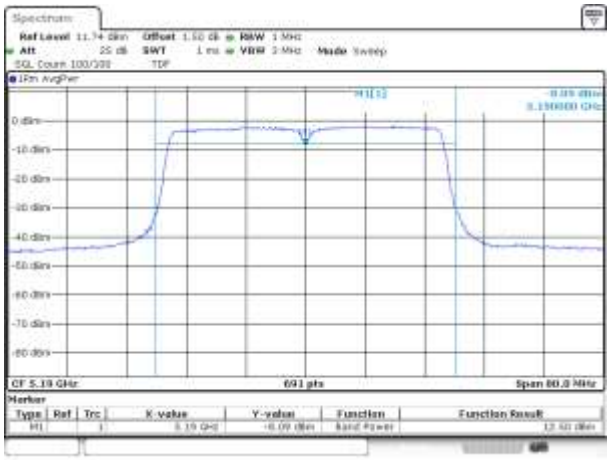
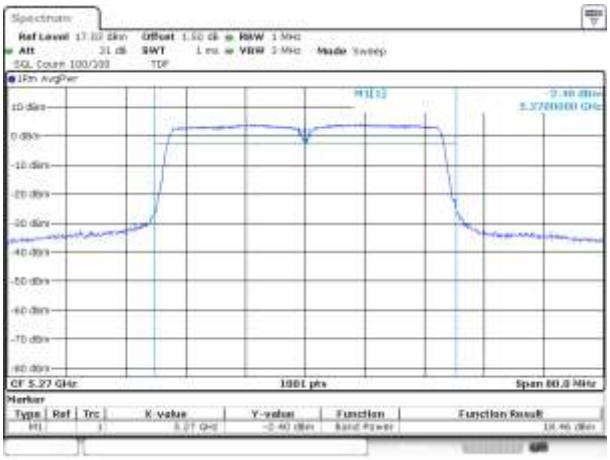
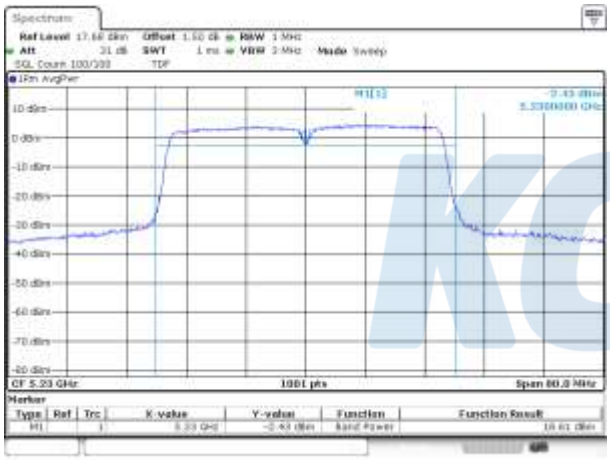
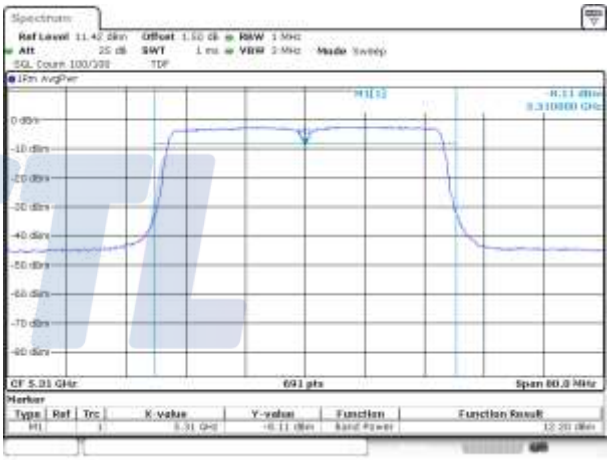
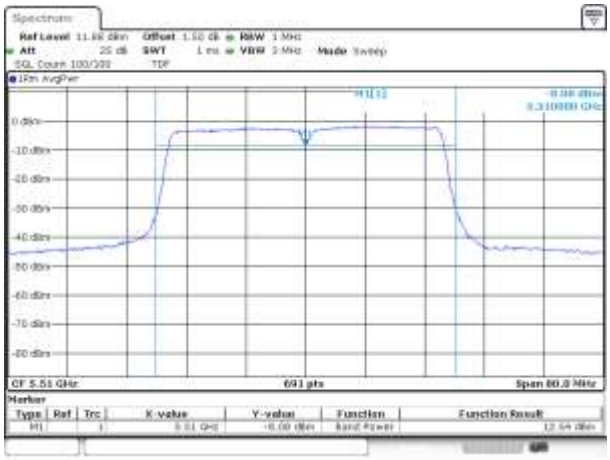
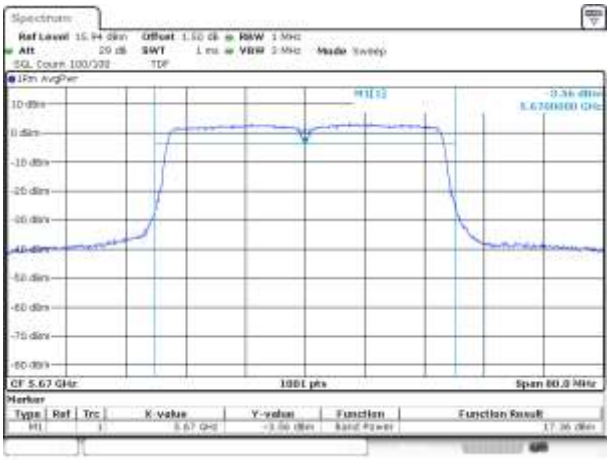
	
UNII-3 / 802.11ac VHT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11ac VHT40 / 5 190 ㎒	UNII-2A / 802.11ac VHT40 / 5 270 ㎒
	
UNII-1 / 802.11ac VHT40 / 5 230 ㎒	**UNII-2A / 802.11ac VHT40 / 5 310 ㎒**
	

UNII-2C / 802.11ac VHT40 / 5 510 ㎒	UNII-2C / 802.11ac VHT40 / 5 670 ㎒
	
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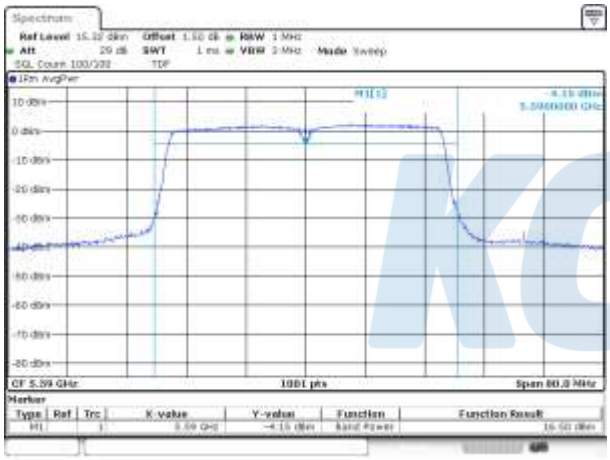	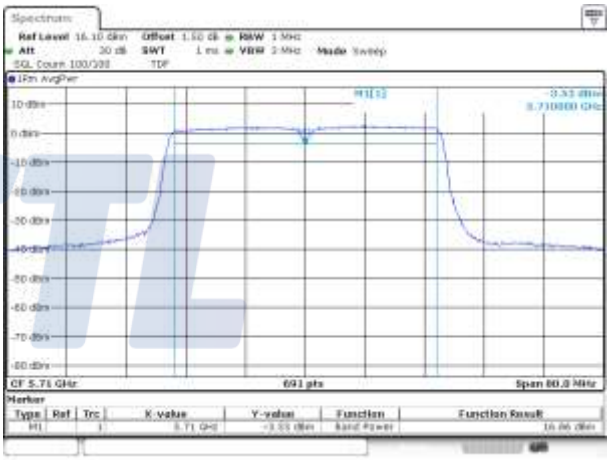
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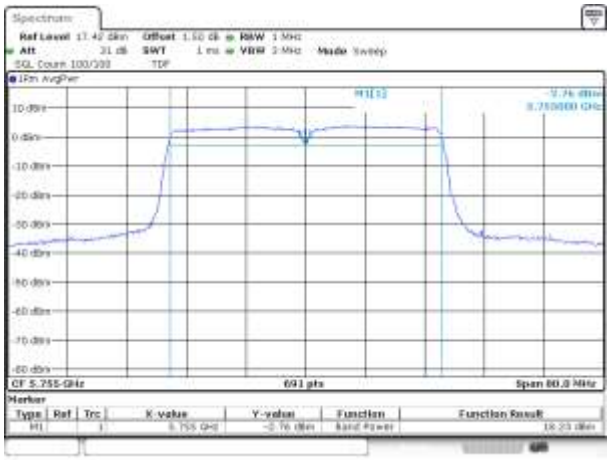
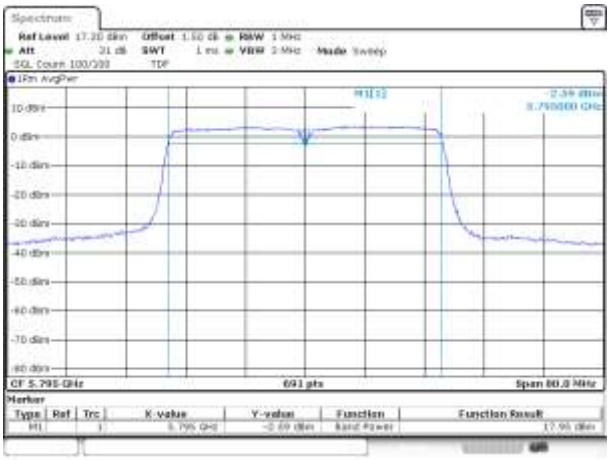
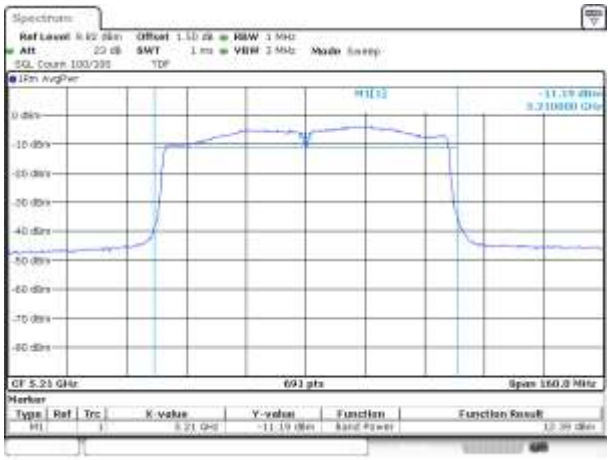
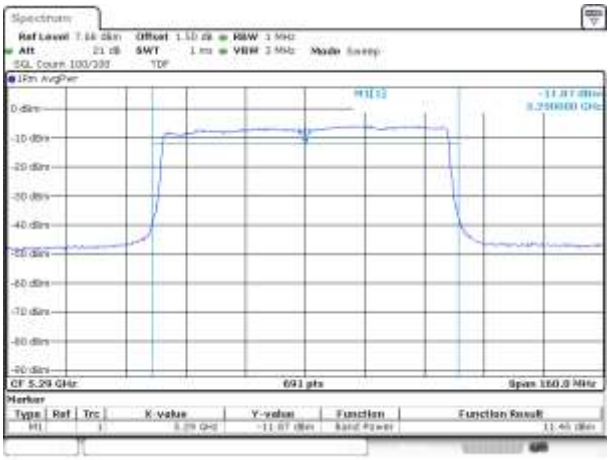
	

UNII-1 / 802.11ac VHT80 / 5 210 ㎒	UNII-2A / 802.11ac VHT80 / 5 290 ㎒
	
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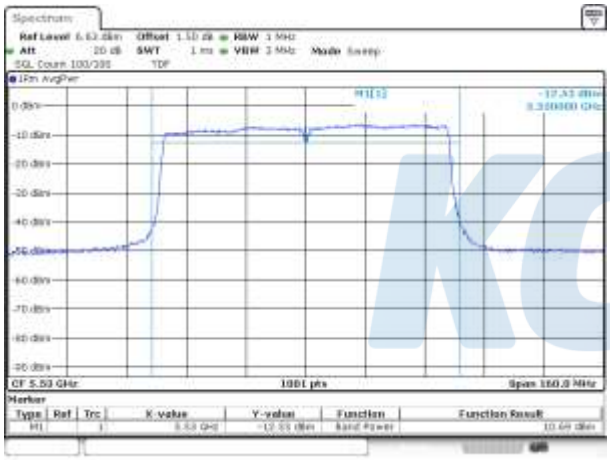	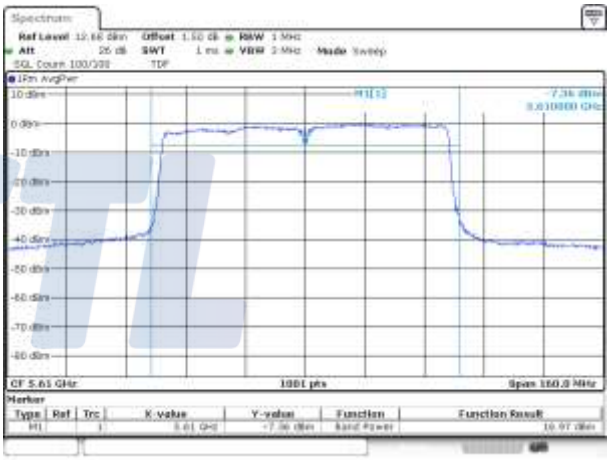
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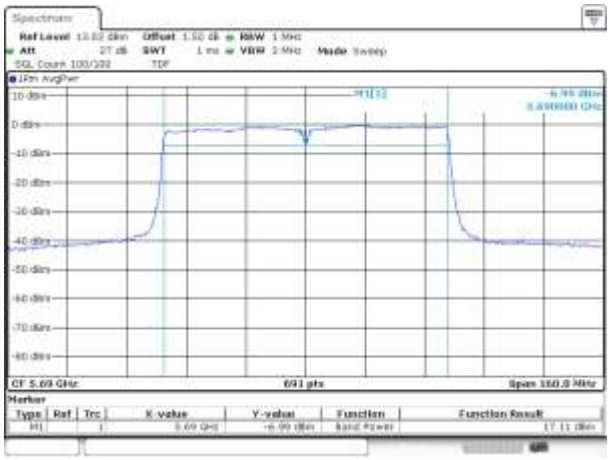	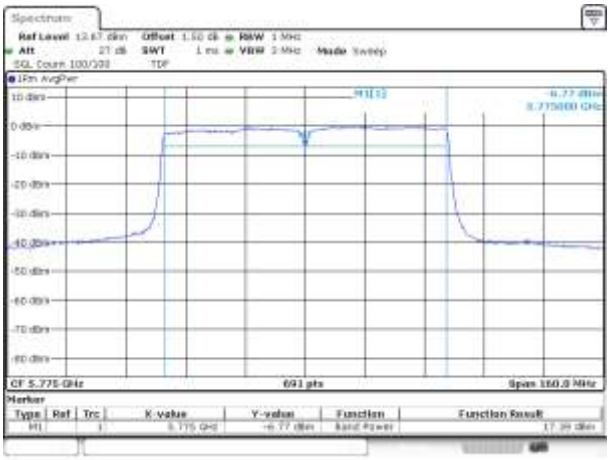

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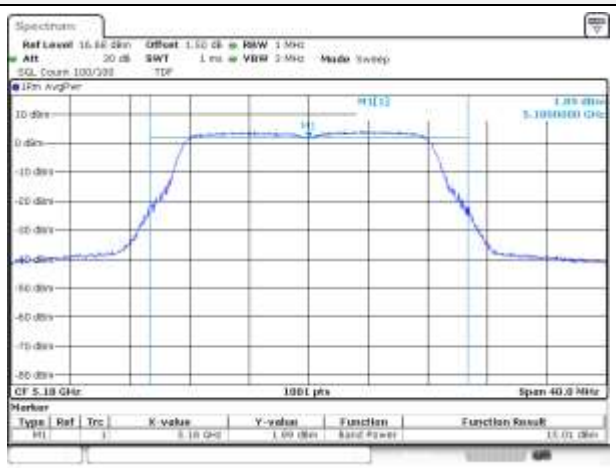
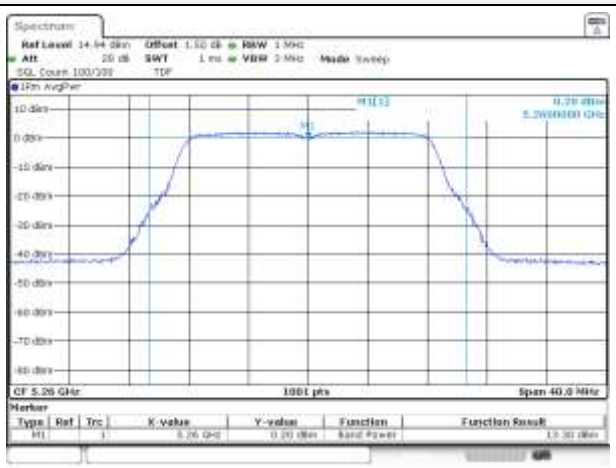
UNII-1 / 802.11a / 5 180 ㎒	UNII-2A / 802.11a / 5 260 ㎒
	
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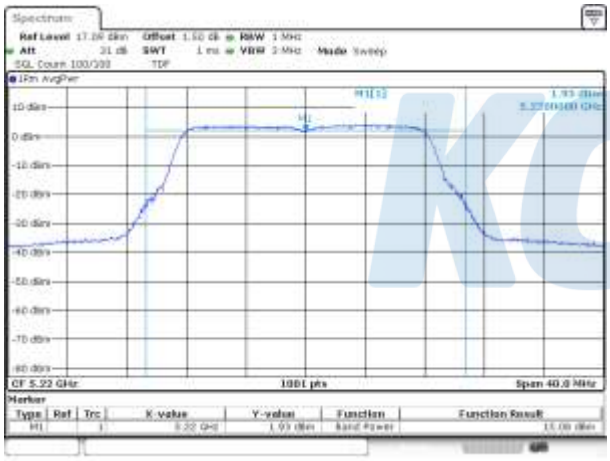	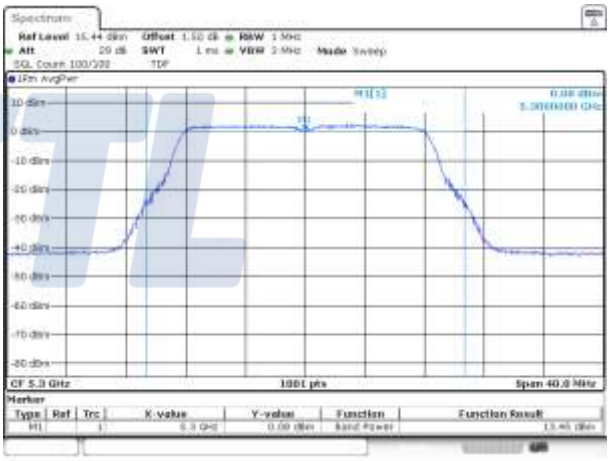
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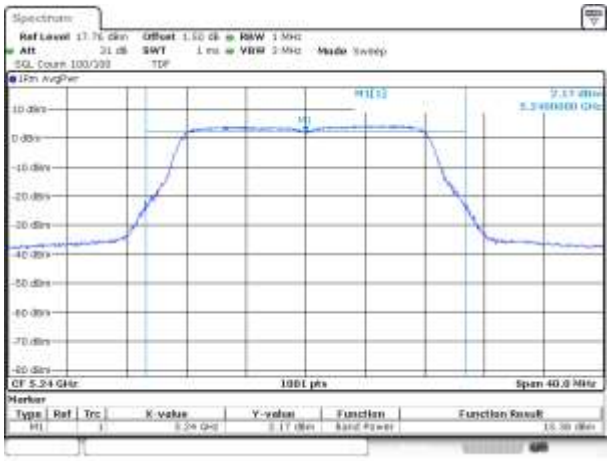
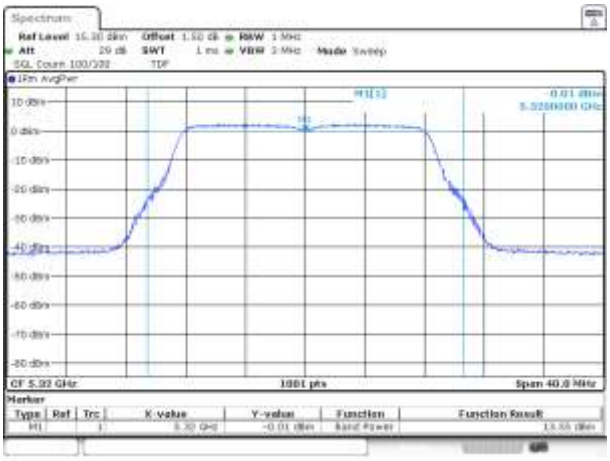
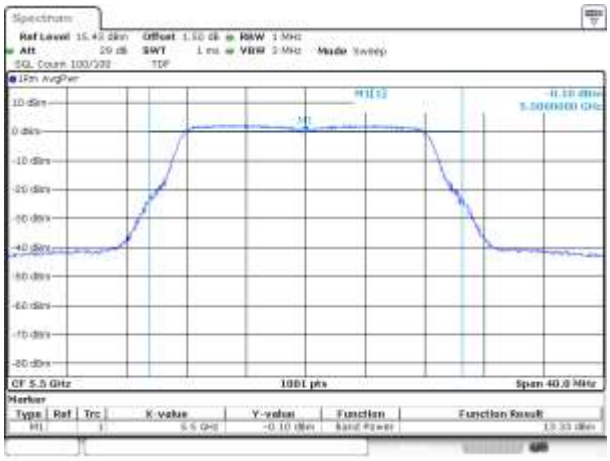
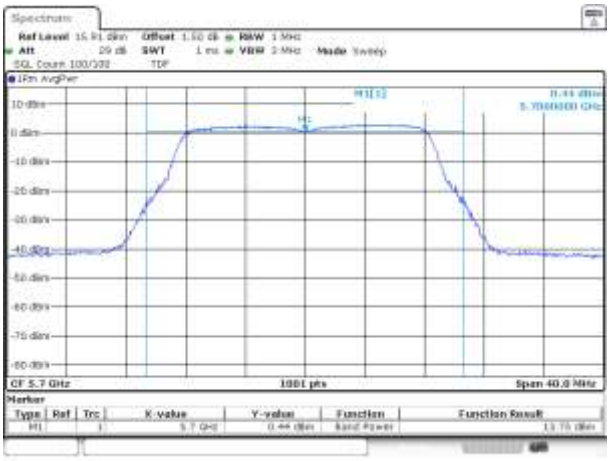
	

UNII-2C / 802.11a / 5 500 ㎒	UNII-2C / 802.11a / 5 700 ㎒
	
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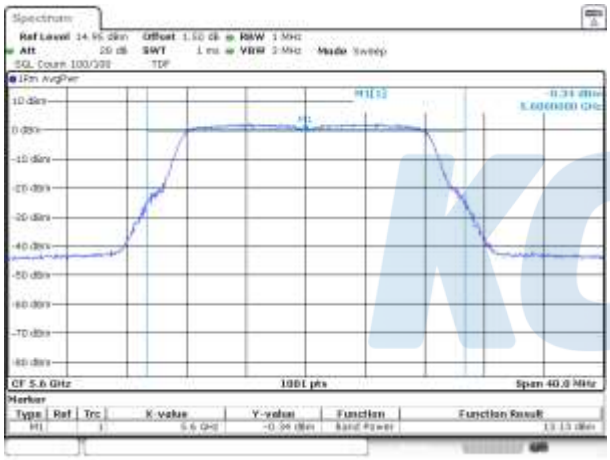
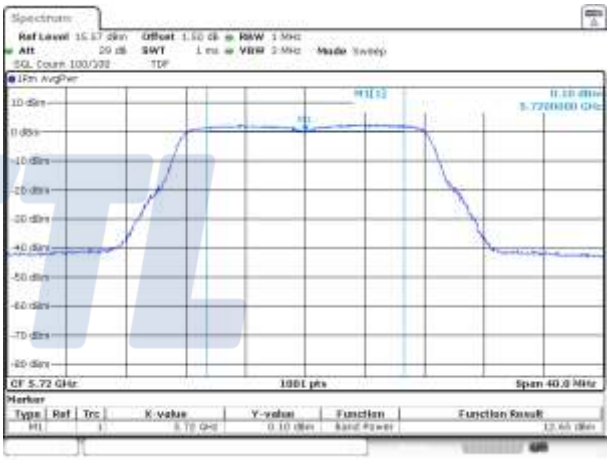
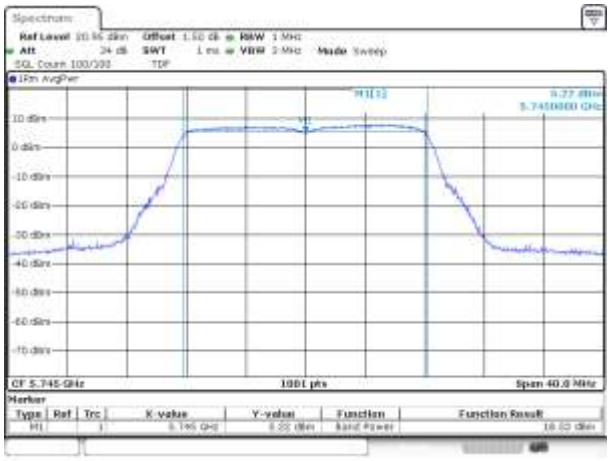
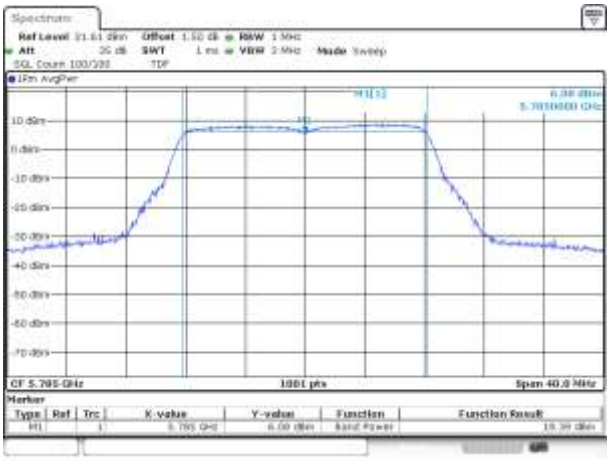
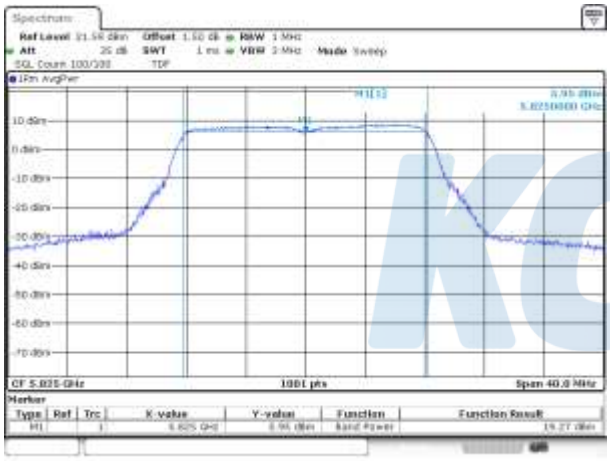
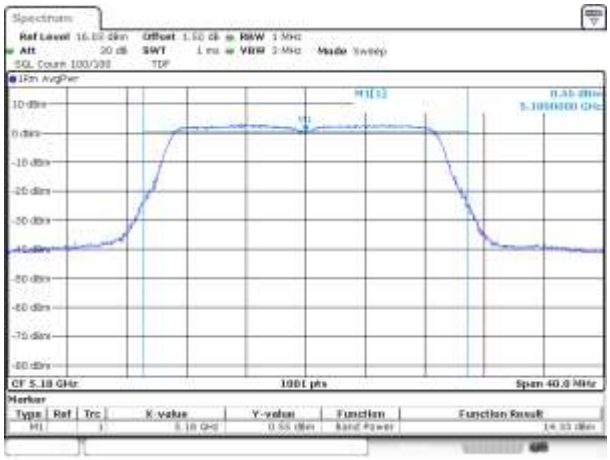
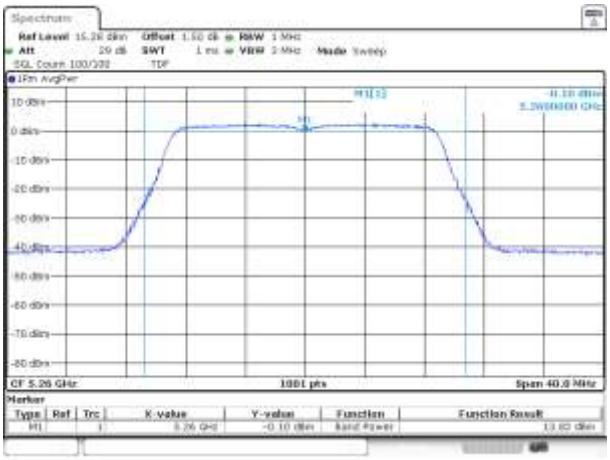
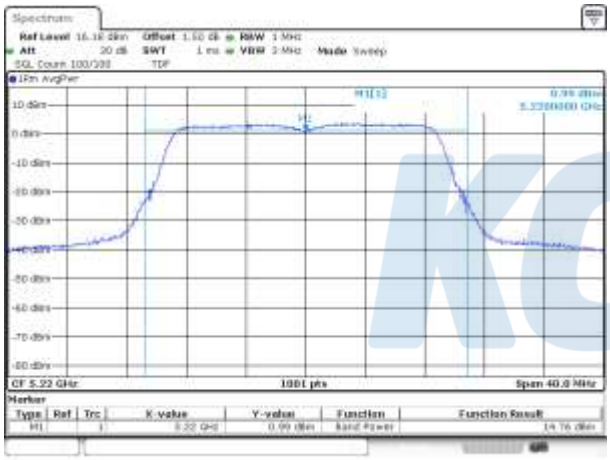
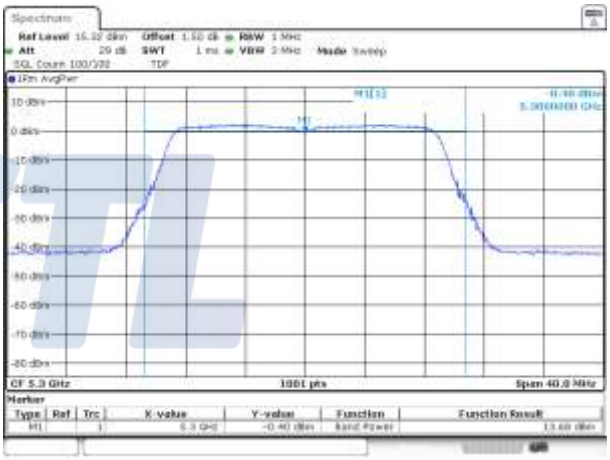
	

UNII-3 / 802.11a / 5 745 ㎒	UNII-3 / 802.11a / 5 785 ㎒
	
UNII-3 / 802.11a / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11n HT20 / 5 180 ㎒	UNII-2A / 802.11n HT20 / 5 260 ㎒
	
UNII-1 / 802.11n HT20 / 5 220 ㎒	**UNII-2A / 802.11n HT20 / 5 300 ㎒**
	
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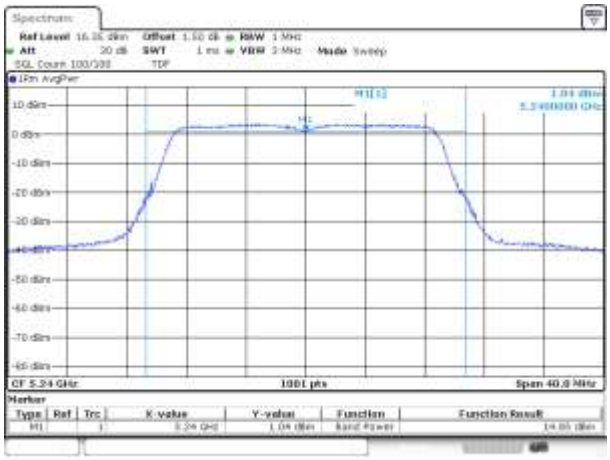	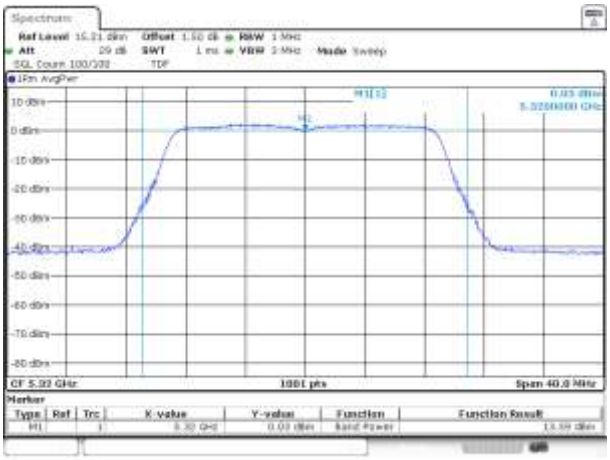

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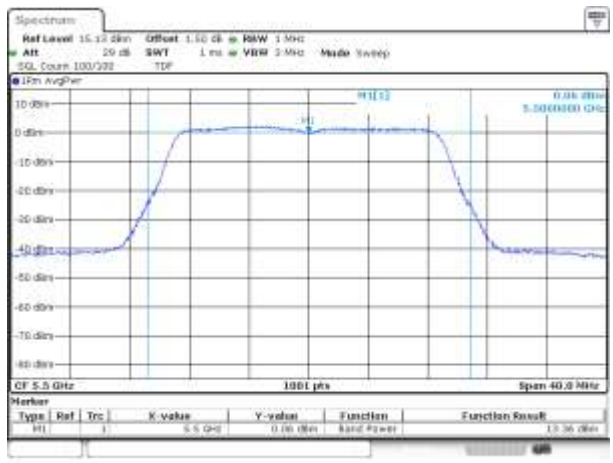	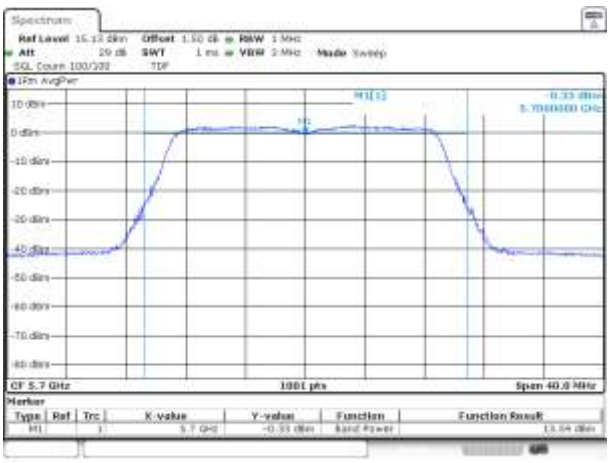
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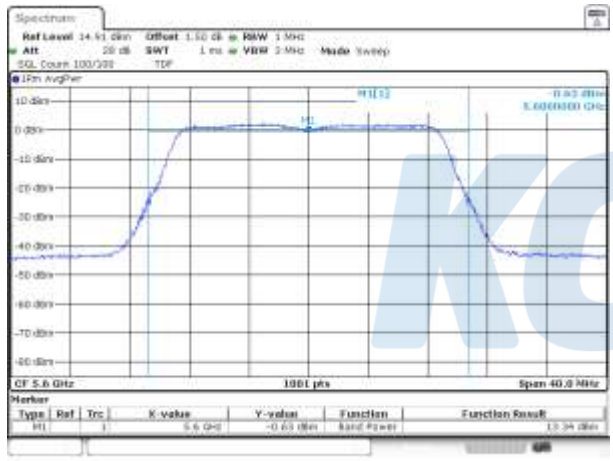
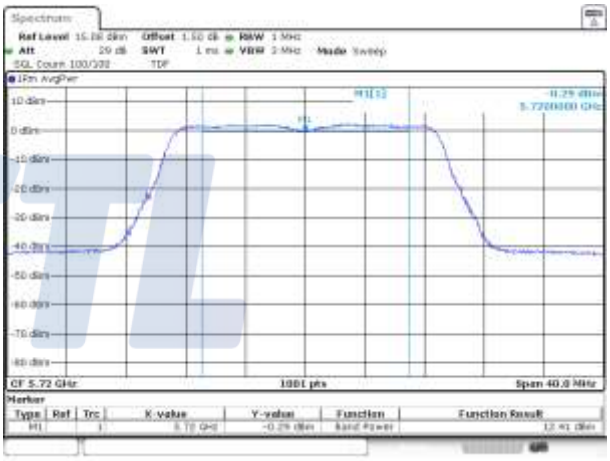
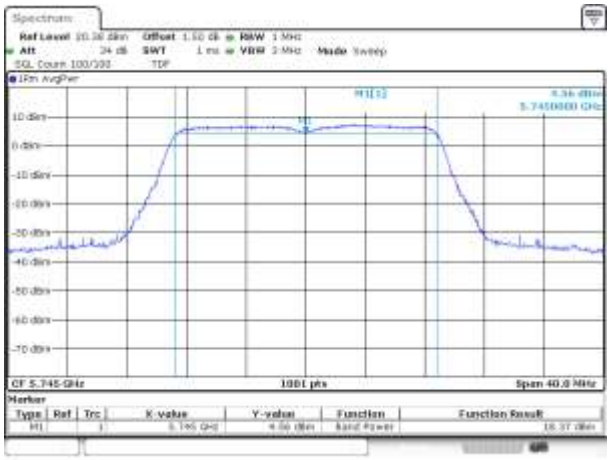
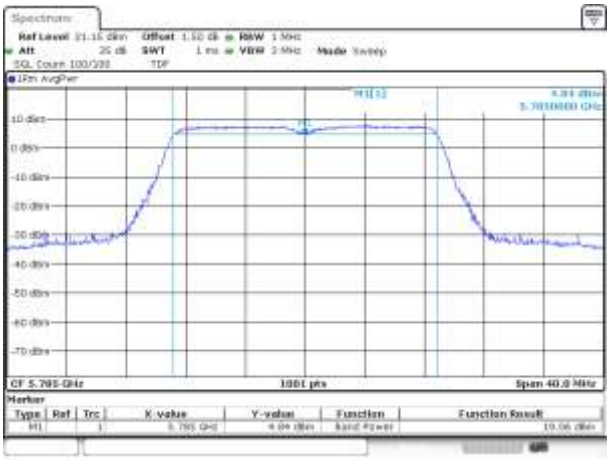
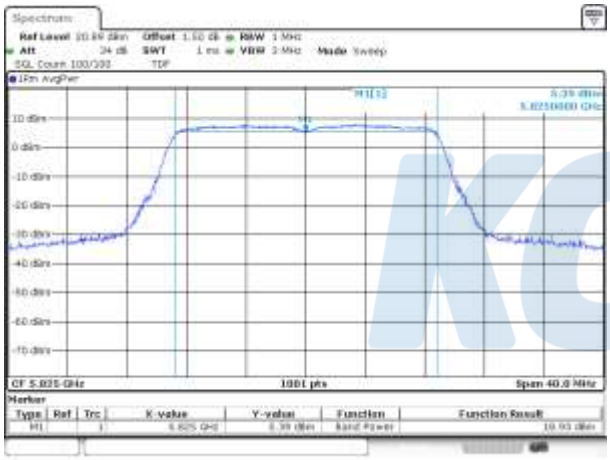
	

UNII-3 / 802.11n HT20 / 5 745 ㎒	UNII-3 / 802.11n HT20 / 5 785 ㎒
	
UNII-3 / 802.11n HT20 / 5 825 ㎒	**-**
	Blank

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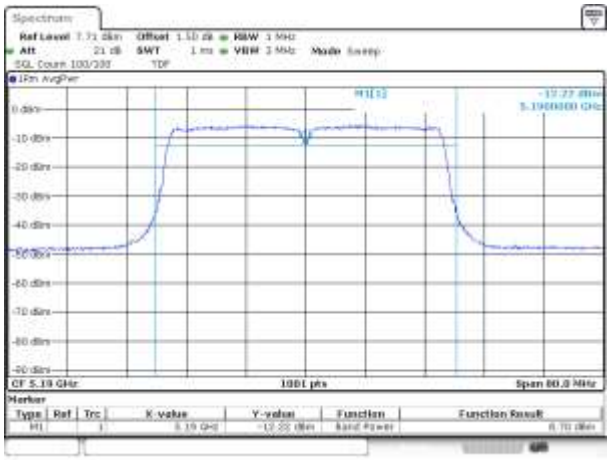	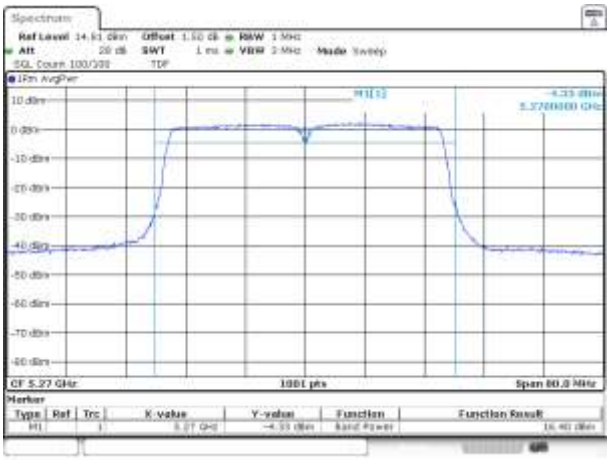
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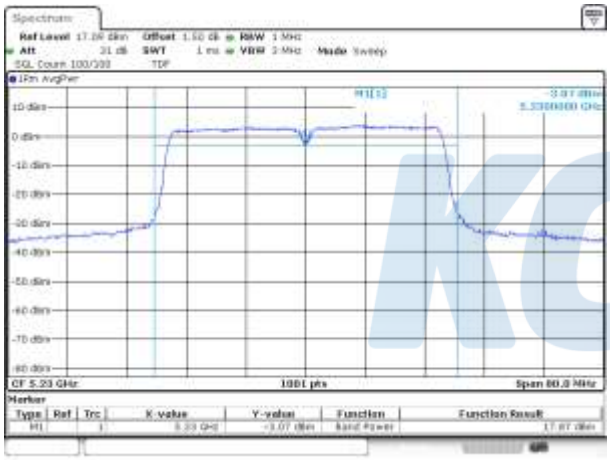
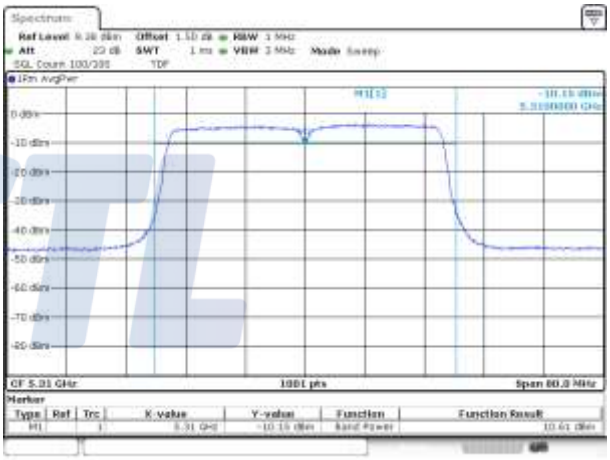
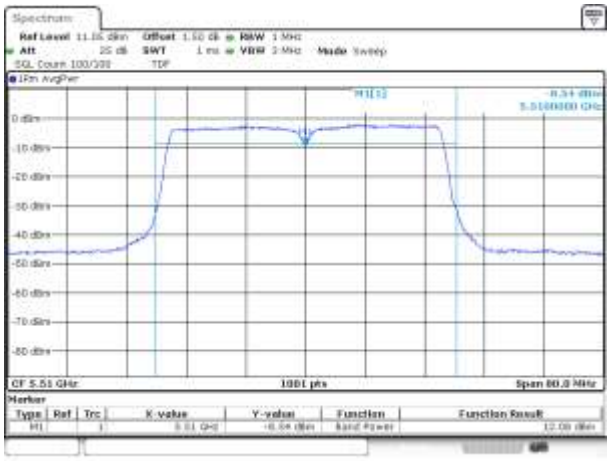
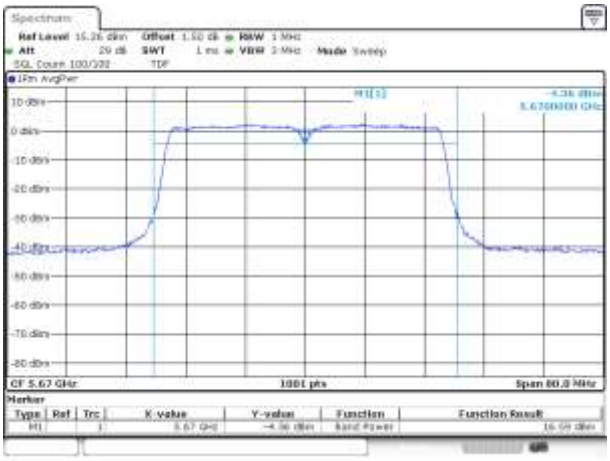
	

UNII-2C / 802.11n HT40 / 5 510 ㎒	UNII-2C / 802.11n HT40 / 5 670 ㎒
	
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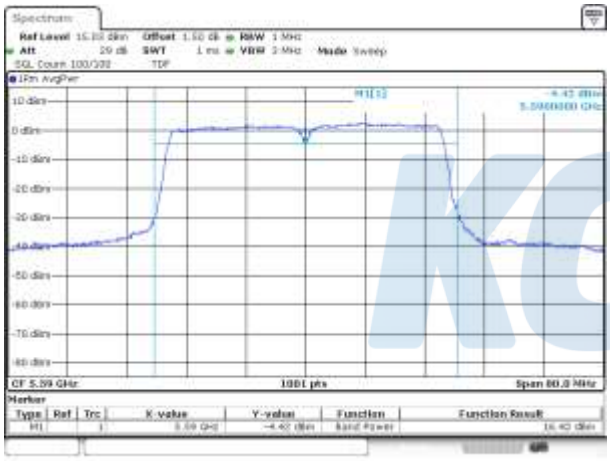	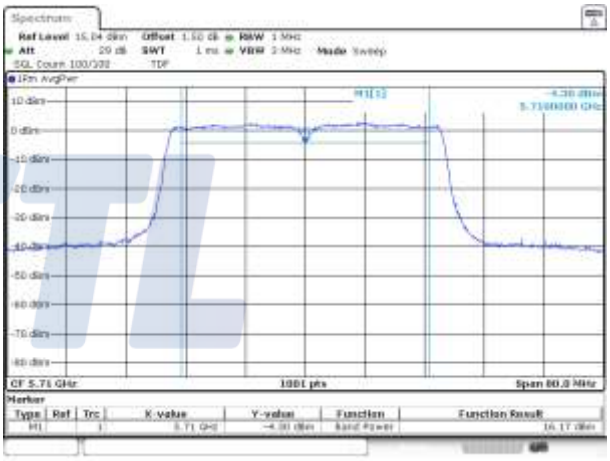
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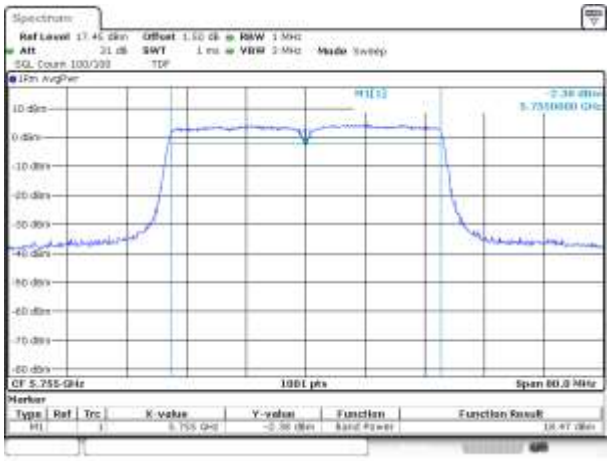
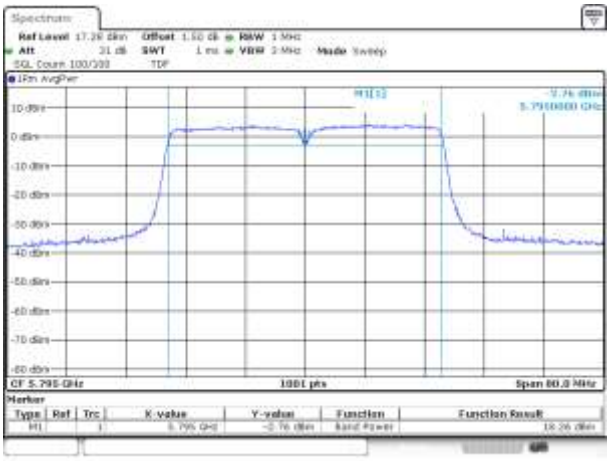
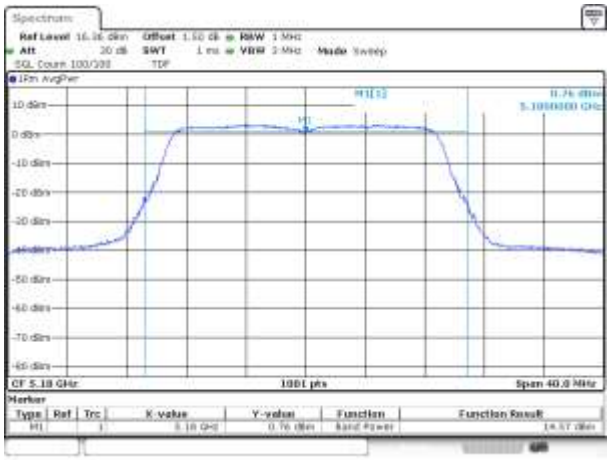
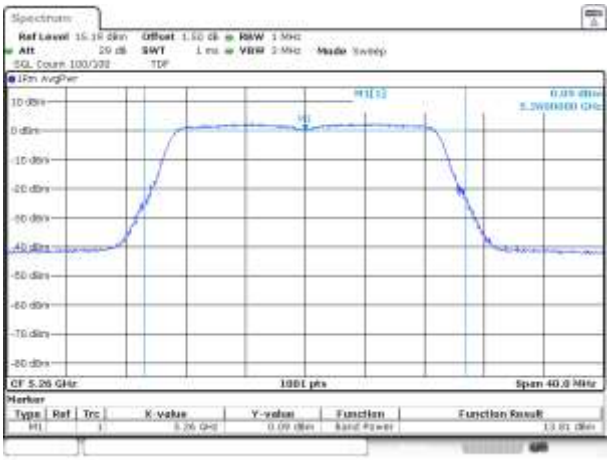
	

UNII-1 / 802.11ac VHT20 / 5 180 ㎒	UNII-2A / 802. 11ac VHT20 / 5 260 ㎒
	
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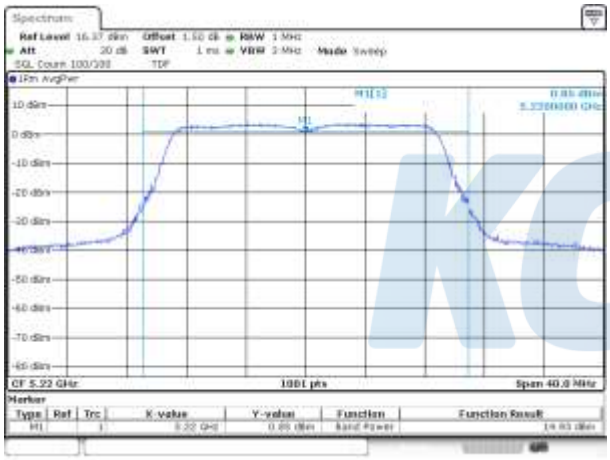
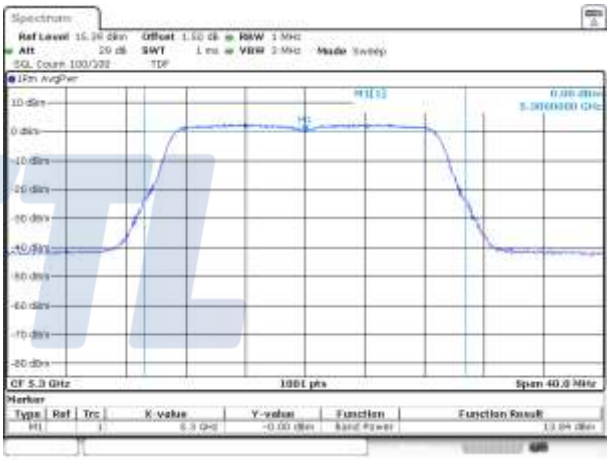
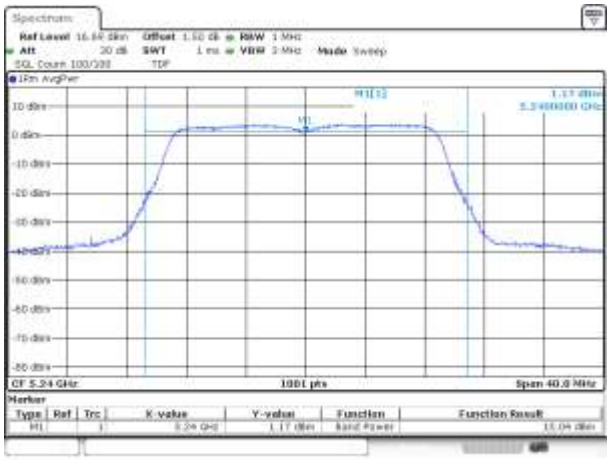
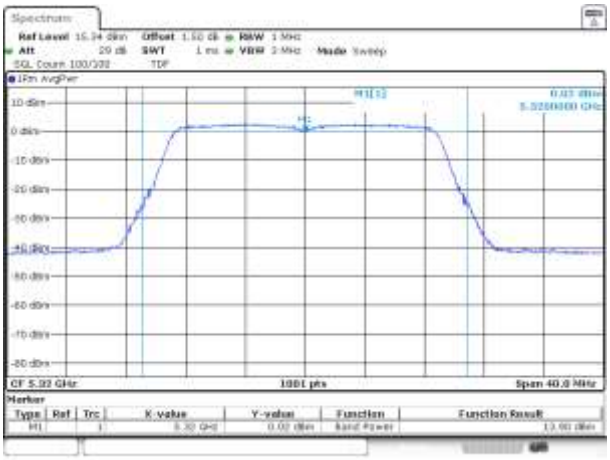
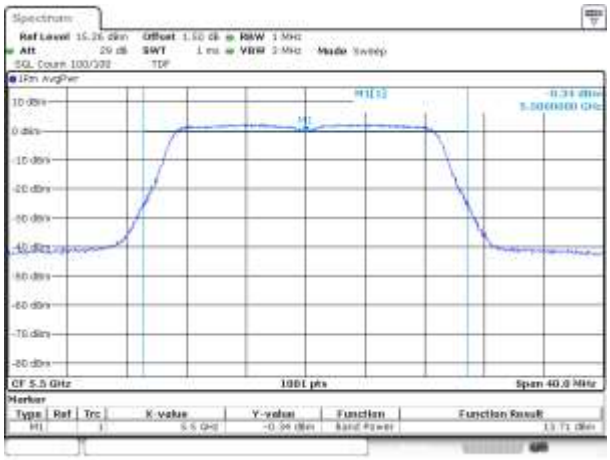
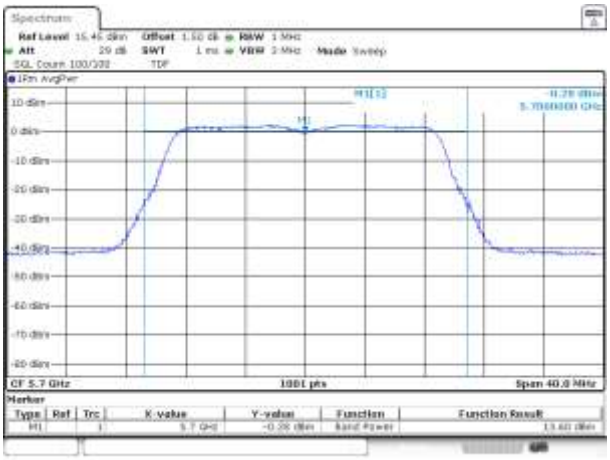
	
UNII-1 / 802. 11ac VHT20 / 5 240 ㎒	**UNII-2A / 802. 11ac VHT20 / 5 320 ㎒**
	

UNII-2C / 802.11ac VHT20 / 5 500 ㎒	UNII-2C / 802.11ac VHT20 / 5 700 ㎒
	
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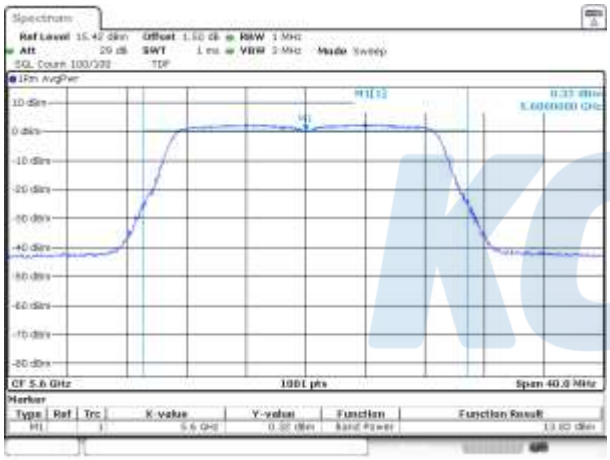
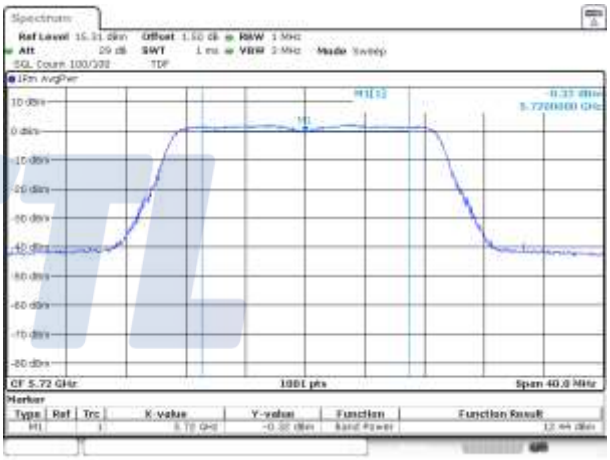
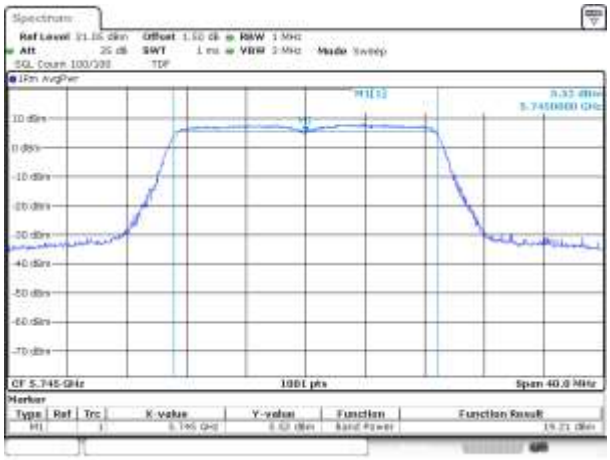
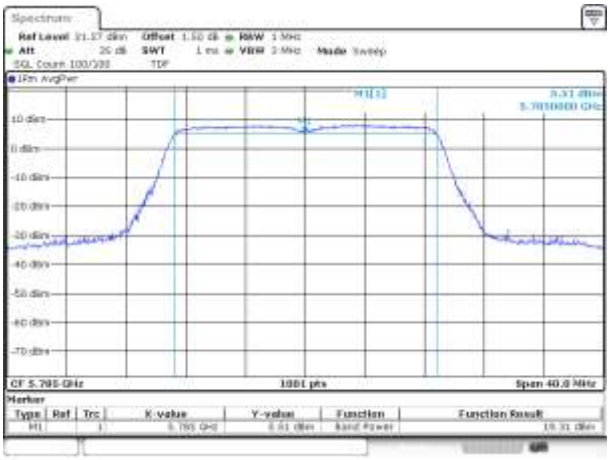
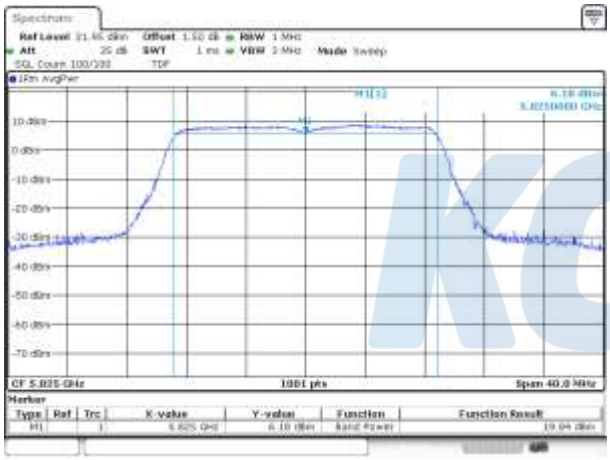
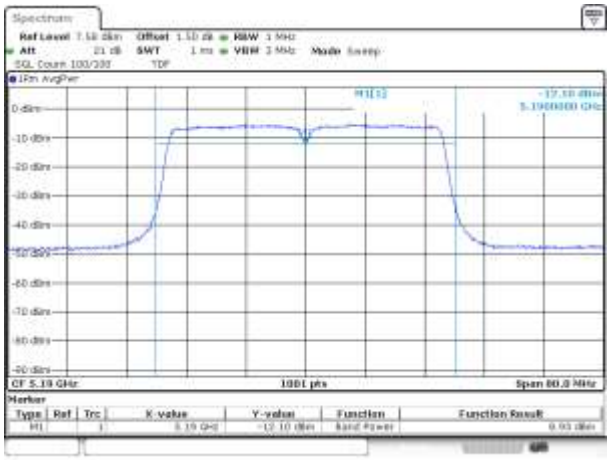
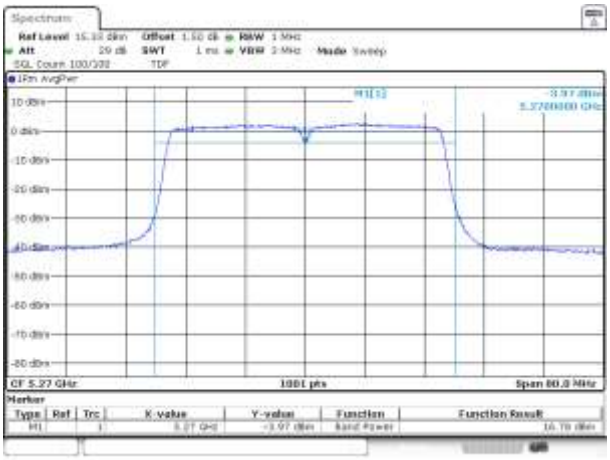
	

UNII-3 / 802.11ac VHT20 / 5 745 ㎒	UNII-3 / 802.11ac VHT20 / 5 785 ㎒
	
UNII-3 / 802.11ac VHT20 / 5 825 ㎒	**-**
	Blank

UNII-1 / 802.11ac VHT40 / 5 190 ㎒	UNII-2A / 802.11ac VHT40 / 5 270 ㎒
	
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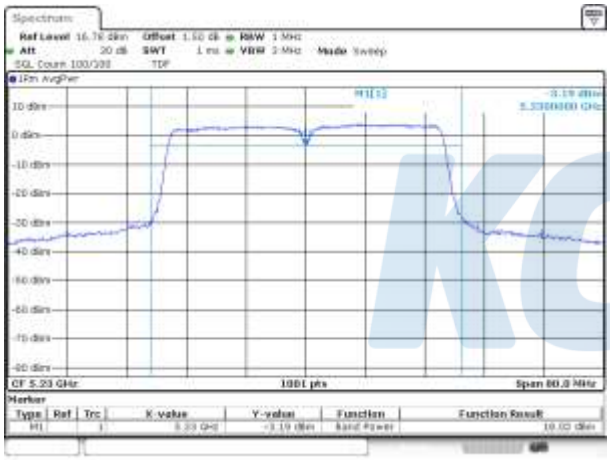
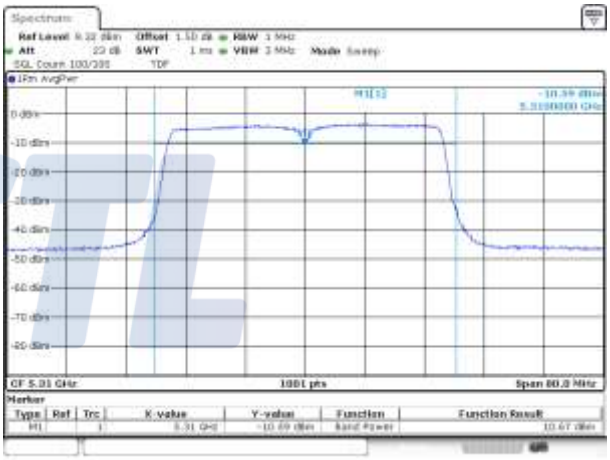
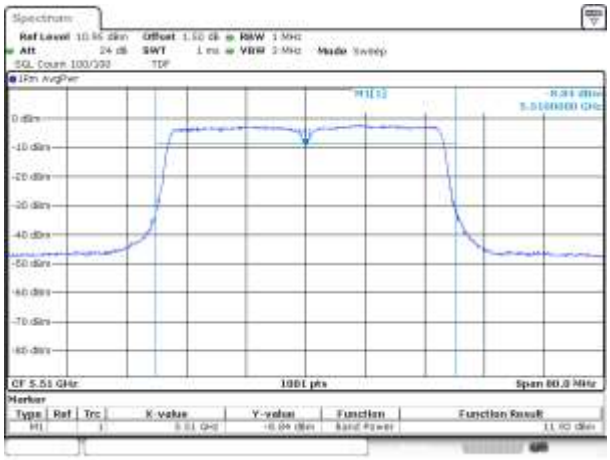
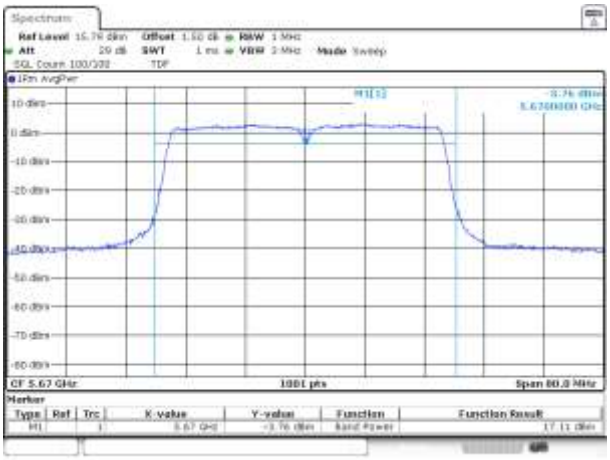
	

UNII-2C / 802.11ac VHT40 / 5 510 ㎒	UNII-2C / 802.11ac VHT40 / 5 670 ㎒
	
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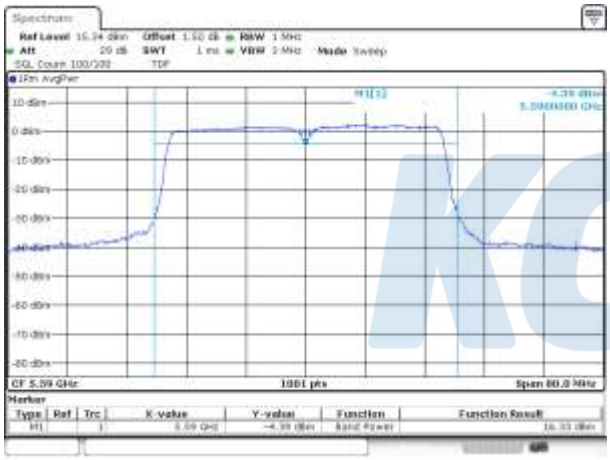	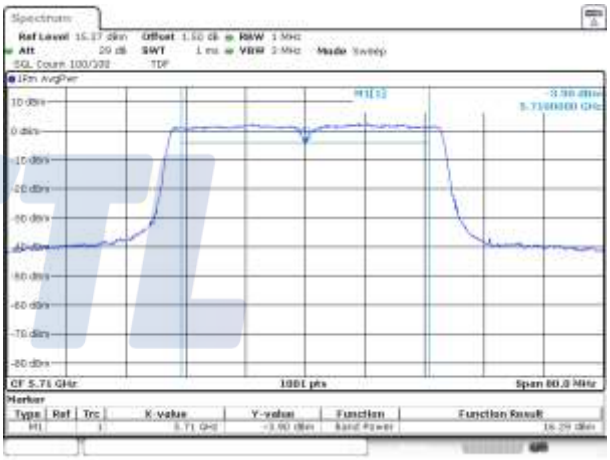
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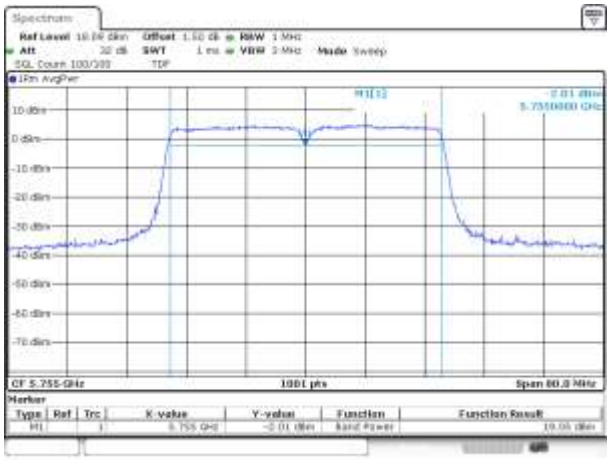
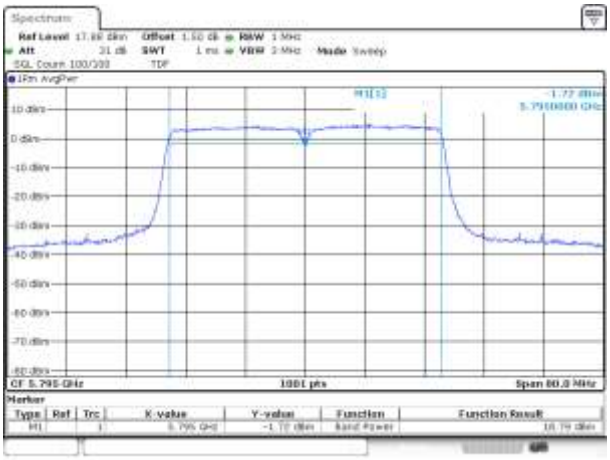
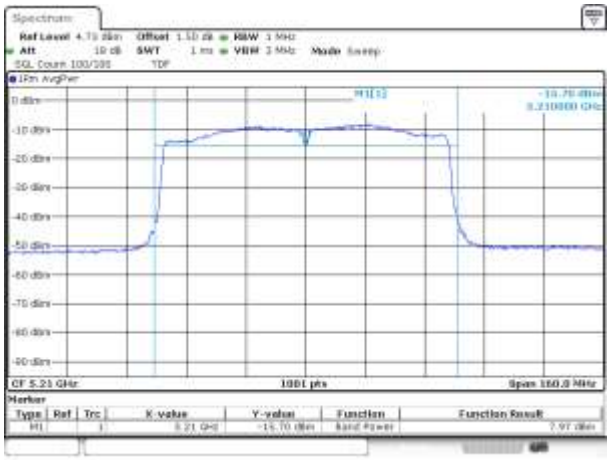
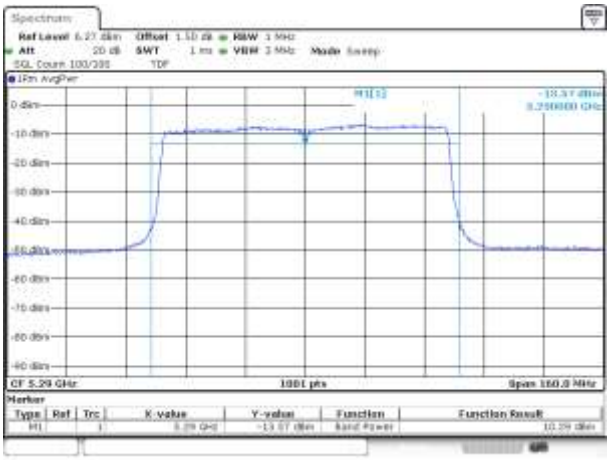
	

UNII-1 / 802.11ac VHT80 / 5 210 ㎒	UNII-2A / 802.11ac VHT80 / 5 290 ㎒
	
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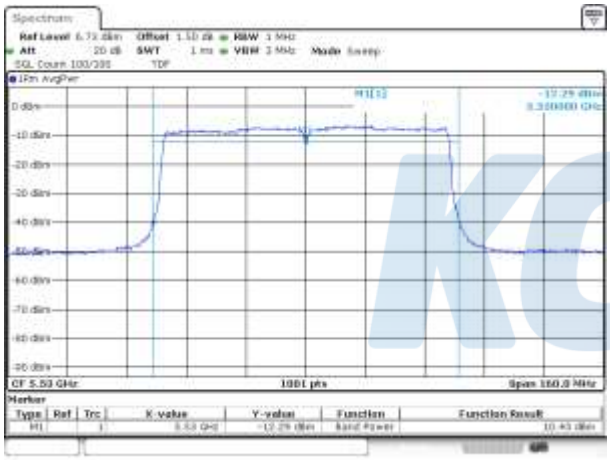	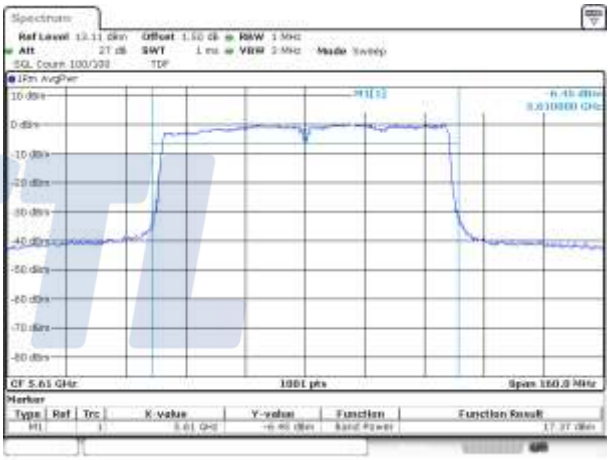
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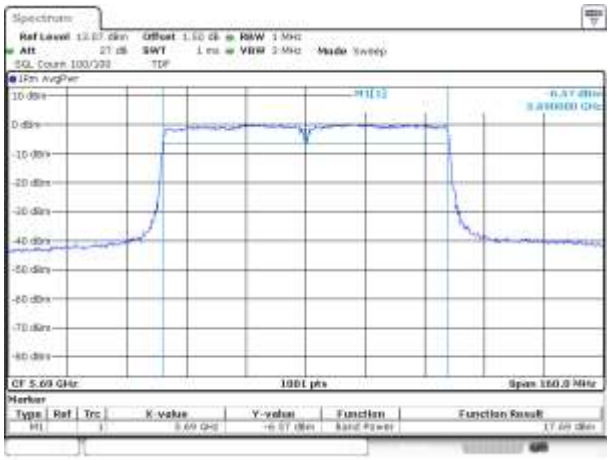	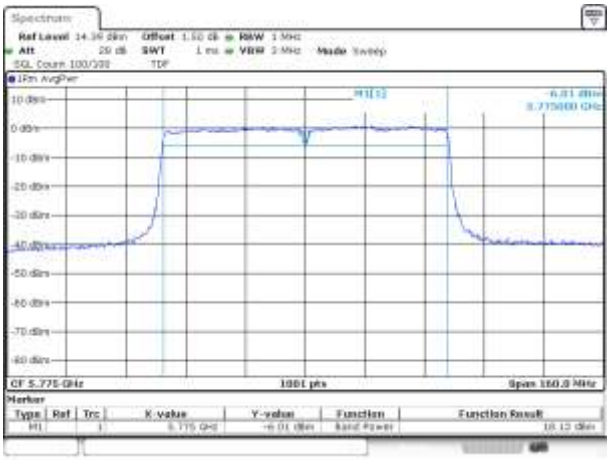

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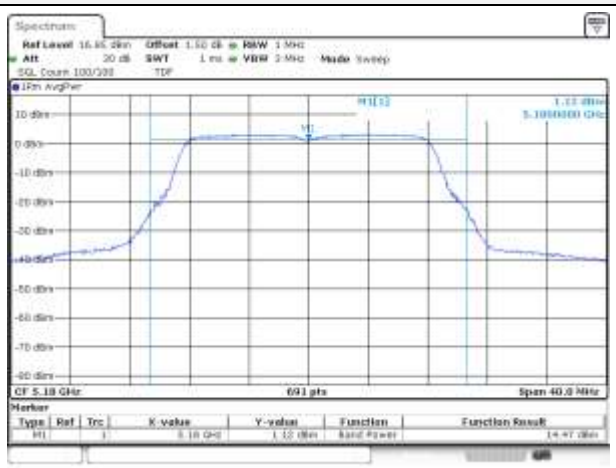
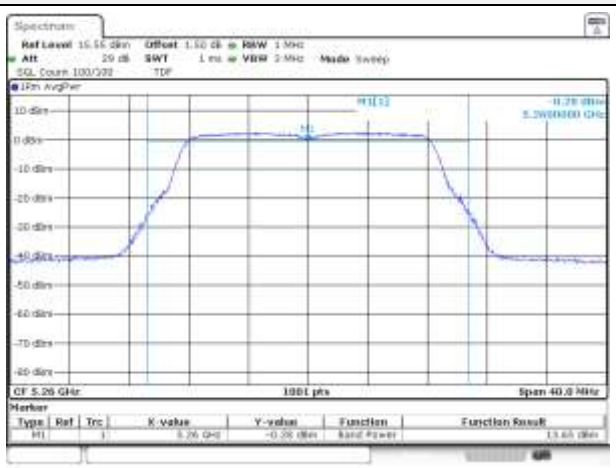
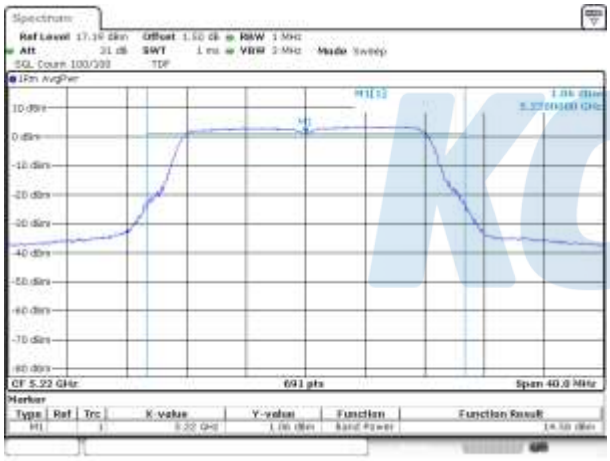
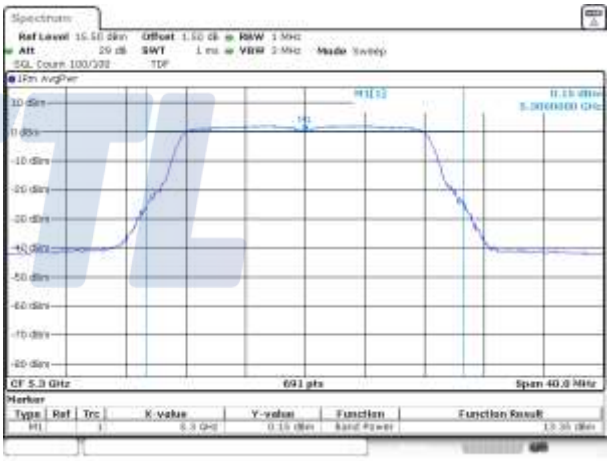
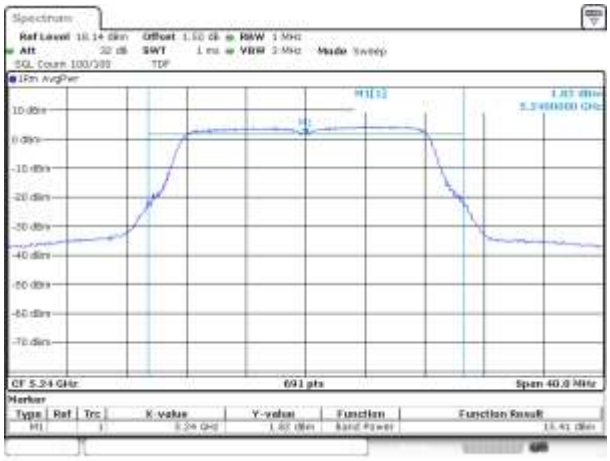
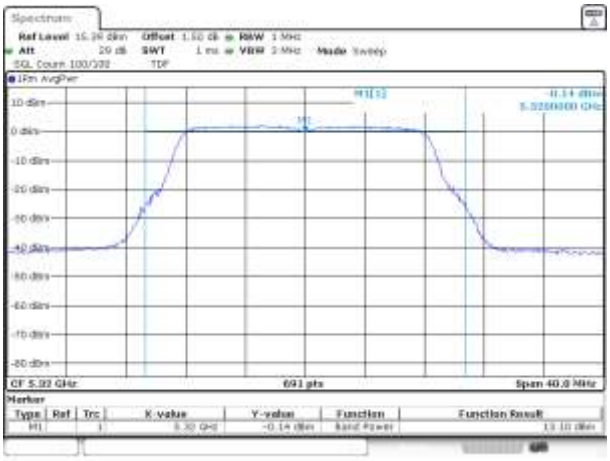
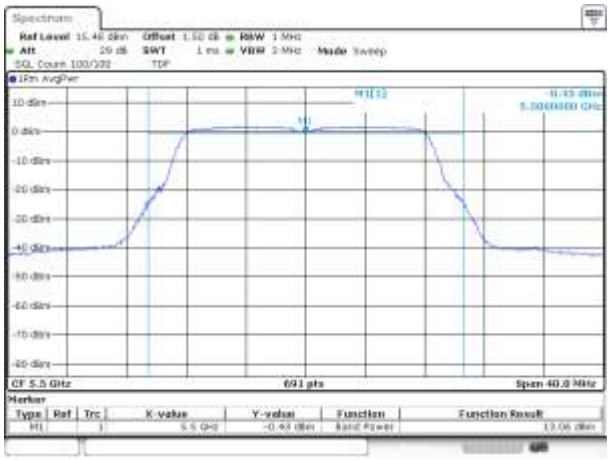
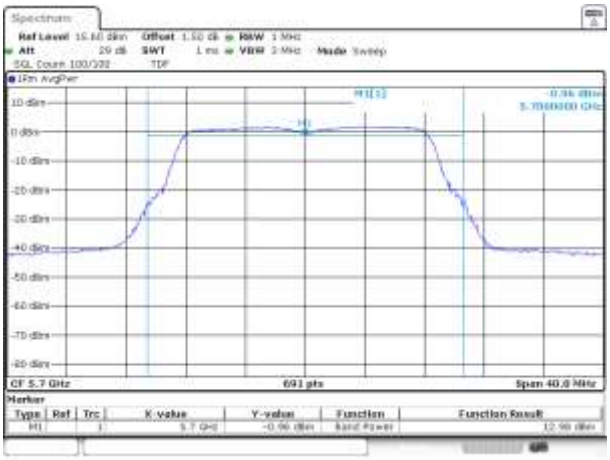
UNII-1 / 802.11a / 5 180 ㎒	UNII-2A / 802.11a / 5 260 ㎒
	
UNII-1 / 802.11a / 5 220 ㎒	**UNII-2A / 802.11a / 5 300 ㎒**
	
UNII-1 / 802.11a / 5 240 ㎒	**UNII-2A / 802.11a / 5 320 ㎒**
	

UNII-2C / 802.11a / 5 500 ㎒	UNII-2C / 802.11a / 5 700 ㎒
	
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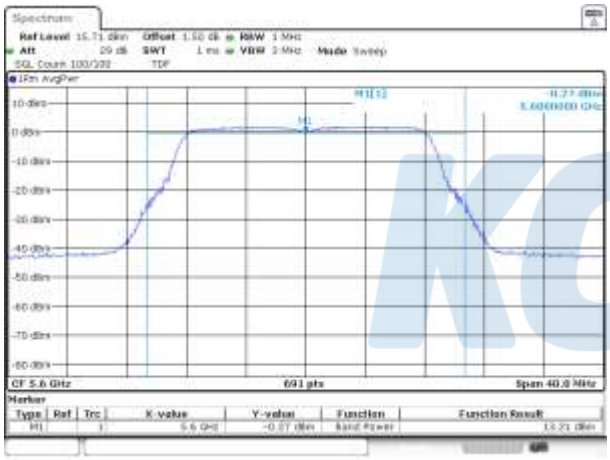
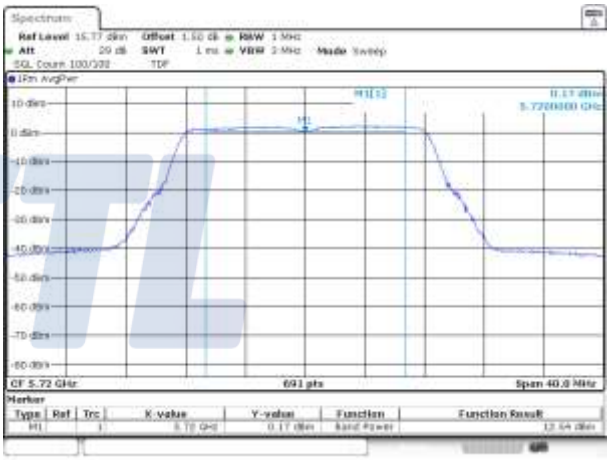
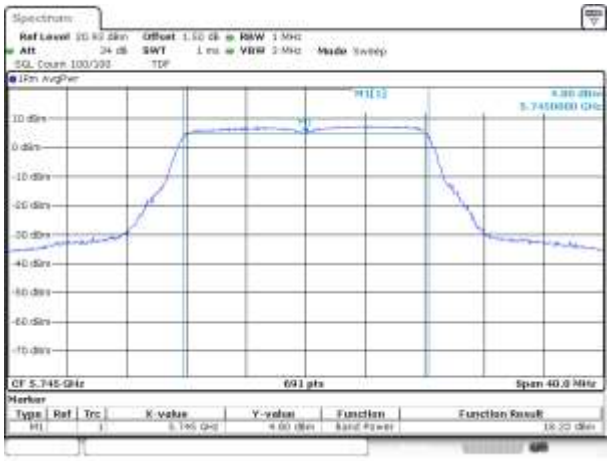
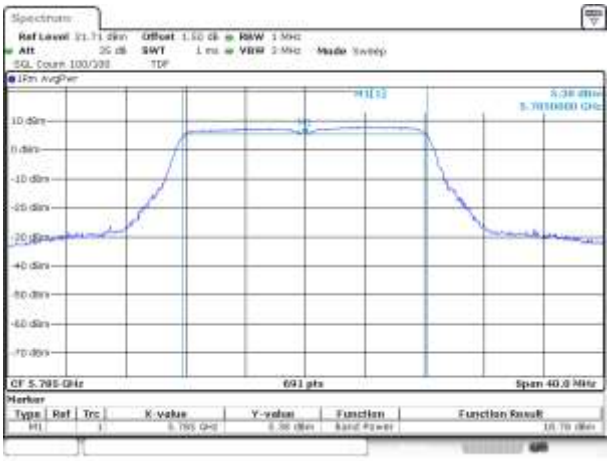
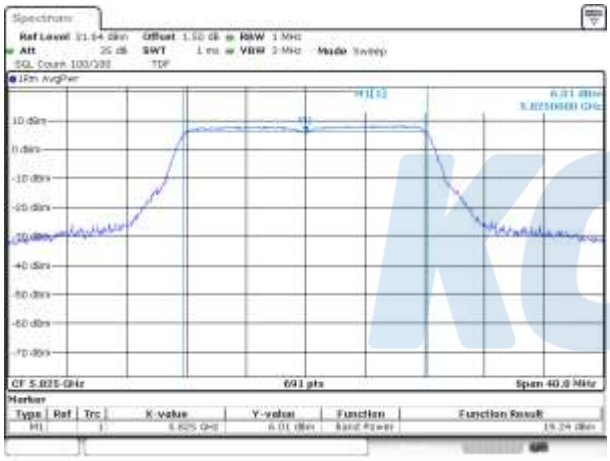
	

UNII-3 / 802.11a / 5 745 ㎒	UNII-3 / 802.11a / 5 785 ㎒
	
UNII-3 / 802.11a / 5 825 ㎒	**-**
	Blank