

Test Report of FCC CFR 47 Part 15 Subpart C and Industry Canada RSS-210 Issue 8

On Behalf of

Deliberant LLC

FCC ID: UB8- FWBD1102

Product Description: Broadband Digital Transmission System

Model No.: FWBD-1102

Prepared for: **Deliberant LLC**

138 Mountain Brook Dr Canton, GA 30115 United States

Prepared by: **Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.**

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Report No.: BCT14DR095E-1

FCC Rule Part(s): Part 15.407

Test Procedure(s): KDB 789033 D02v01, KDB 662911 D01v02r01

Issue Date: August 25, 2014

Test Date: May 07- August 25, 2014

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TABLE OF CONTENTS

1. GENERAL INFORMATION	3
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
1.2 TEST STANDARDS	5
1.3 TEST FACILITY	5
2. SYSTEM TEST CONFIGURATION	6
2.1 EUT CONFIGURATION	6
2.2 EUT EXERCISE	6
2.3 GENERAL TEST PROCEDURES	6
2.4 MEASUREMENT UNCERTAINTY	6
2.5 LIST OF MEASURING EQUIPMENTS USED	7
3. SUMMARY OF TEST RESULTS	9
4. DUTY CYCLE	10
5. 26 DB EMISSION BANDWIDTH	13
6. THE MAXIMUM E.I.R.P & MAXIMUM CONDUCTED OUTPUT POWER	32
7. BAND EDGES MEASUREMENT	47
8. PEAK POWER SPECTRAL DENSITY	105
9. 6DB BANDWIDTH MEASUREMENT	125
10. RADIATED UNDESIRABLE EMISSION	135
11. CONDUCTED UNDESIRABLE EMISSION	220
12. POWERLINE CONDUCTED EMISSIONS	237
13. FREQUENCY STABILITY	241

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:	Deliberant LLC
Address of Applicant:	138 Mountain Brook Dr Canton, GA 30115 United States
Manufacturer:	Deliberant LLC
Address of Manufacturer:	138 Mountain Brook Dr Canton, GA 30115 United States

General Description of E.U.T

Items	Description
EUT Description:	Broadband Digital Transmission System
Trade Name:	N/A
Model No.:	FWBD-1102
Operation Frequency:	For 802.11a/n-HT20: 5180~5240MHz, 5745~5825MHz For 802.11n-HT40: 5190~5230MHz, 5755~5795MHz
Channel numbers:	802.11a/ 802.11n20:13, 802.11n40:2
Channel separation:	802.11a/802.11n20 :20MHz, 802.11n40 :40MHz
Modulation technology: (IEEE 802.11a)	BPSK,QPSK,16-QAM,64-QAM
Modulation technology: (IEEE 802.11n/802.11n)	BPSK,QPSK,16-QAM,64-QAM
Data speed(IEEE 802.11a)	6MHz,9MHz,12MHz,18MHz,24MHz,36MHz,48MHz,54MHz
Data speed (IEEE 802.11n20):	MCS0: 6.5MHz,MCS1:13MHz,MCS2:19.5MHz,MCS3:26MHz, MCS4:39MHz,MCS5:52MHz,MCS6:58.5MHz,MCS7:65MHz
Data speed (IEEE 802.11n40):	MCS0:15MHz,MCS1:30MHz,MCS2:45MHz,MCS3:60MHz, MCS4:90MHz,MCS5:120MHz,MCS6:135MHz,MCS7:150MHz
Antenna Type:	ANT1:Omni-directional,ANT2:Omni-directional,ANT3:Sector,ANT4: Directional, ANT5:Dish
Antenna Gain:	ANT1:3dBi, ANT2:15dBi, ANT3:19 dBi,ANT4:23 dBi,ANT5:30 dBi
Power Supply:	DC 24V 0.5A
Adapter Information:	1# Model No: AY012E-ZF243; 2# Model No: GRT-240050; Input: 100-240V AC 50/60Hz 0.5A Output: DC 24V 0.5A

Remark: * The test data gathered are from the production sample provided by the manufacturer.

Operation Frequency:

UNLICENSED NATIONAL INFORMATION INFRASTRUCTURE (U-NII)	
CHANNEL	MHz
36	5180
38	5190
40	5200
44	5220
46	5230
48	5240
149	5745
151	5755
157	5785
159	5795
165	5825

Remark: The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

802.11a/802.11n20

Channel	Frequency	Frequency
The lowest channel	5180MHz	5745MHz
The middle channel	5220MHz	5785MHz
The Highest channel	5240MHz	5825MHz

802.11n40

Channel	Frequency	Frequency
The lowest channel	5190MHz	5755MHz
The Highest channel	5230MHz	5795MHz

1.2 Test Standards

The tests were performed based on the Electromagnetic Interference (EMI) tests performed on the EUT. Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 - 2009 and Industry Canada RSS-210 Issue 8. Radiated testing was performed at an antenna to EUT distance 3 meters.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.207, 15.209 and 15.407 rules and the FCC publication KDB789033, KDB662911, KDB558074 of Guidance on Measurements for Digital Transmission Systems (47 CFR 15.407) .

1.3 Test Facility

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

FCC – Registration No.: 970318

Shenzhen CTL Testing Technology Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 970318, December, 2013.

IC Registration No.: 7631A

The 3m alternate test site of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: 7631A on January 2011.

The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

2. SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The calibrated antennas used to sample the radiated field strength are mounted on a non-conductive, motorized antenna mast 3 or 10 meters from the leading edge of the turntable.

Support equipments or special accessories in test configuration :

AUX Description:	Manufacturer	Model No.	Certificate	CABLE
Host Computer	Dell	78MD82X	CE, FCC	1.5m Unshielded Power Cord
Monitor	Dell	E178Pc	CE, FCC	1.5m Unshielded Power Cord 1.8m shielded data Cable with core
Keyboard	Dell	L100	CE, FCC	1.8m shielded data Cable with core
Mouse	Dell	OCJ339	CE, FCC	1.8m shielded data Cable with core

2.3 General Test Procedures

Conducted Emissions: The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 7.1 of ANSI C63.4-2009 and Clause 4 of RSS-GEN Issue 2. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak detector mode.

Radiated Emissions: The EUT is placed on a turntable, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4-2009 and Clause 4 of RSS-GEN Issue 2.

2.4 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

Parameter	Uncertainty
Power Line Conducted Emission	+/- 2.3 dB
Radiated Emission	+/- 3.4 dB

Uncertainty figures are valid to a confidence level of 95%.

2.5 List of Measuring Equipments Used

Test equipments list of Shenzhen Bontek Compliance Testing Laboratory Co., Ltd.

No.	Instrument no.	Equipment	Manufacturer	Model No.	S/N	Last Calculator	Due Calculator
1	BCT-EMC001	EMI Test Receiver	R&S	ESCI	100687	2014-4-16	2015-4-17
2	BCT-EMC002	EMI Test Receiver	R&S	ESPI	100097	2013-11-1	2014-10-31
3	BCT-EMC003	Amplifier	HP	8447D	1937A02492	2014-4-16	2015-4-17
4	BCT-EMC004	Single Power Conductor Module	R&S	NNBM 8124	242	2014-4-16	2015-4-17
5	BCT-EMC005	Single Power Conductor Module	R&S	NNBM 8124	243	2014-4-16	2015-4-17
6	BCT-EMC006	Power Clamp	SCHWARZBECK	MDS-21	3812	2013-11-1	2014-10-31
7	BCT-EMC007	Positioning Controller	C&C	CC-C-1F	MF7802113	N/A	N/A
8	BCT-EMC008	Electrostatic Discharge Simulator	TESEQ	NSG437	125	2013-11-1	2014-10-31
9	BCT-EMC009	Fast Transient Burst Generator	SCHAFFNER	MODULA6150	34572	2014-4-16	2015-4-17
10	BCT-EMC010	Fast Transient Noise Simulator	Noiseken	FNS-105AX	10501	2013-11-1	2014-10-31
11	BCT-EMC011	Color TV Pattern Genenator	PHILIPS	PM5418	TM209947	N/A	N/A
12	BCT-EMC012	Power Frequency Magnetic Field Generator	EVERFINE	EMS61000-8K	608002	2014-4-16	2015-4-17
14	BCT-EMC014	Capacitive Coupling Clamp	TESEQ	CDN8014	25096	2014-4-16	2015-4-17
15	BCT-EMC015	High Field Biconical Antenna	ELECTRO-METRICS	EM-6913	166	2013-11-1	2014-10-31
16	BCT-EMC016	Log Periodic Antenna	ELECTRO-METRICS	EM-6950	811	2013-11-1	2014-10-31
17	BCT-EMC017	Remote Active Vertical Antenna	ELECTRO-METRICS	EM-6892	304	2013-11-1	2014-10-31
18	BCT-EMC018	TRILOG Broadband Test-Antenna	SCHWARZBECK	VULB9163	9163-324	2014-5-19	2015-5-18
19	BCT-EMC019	Horn Antenna	SCHWARZBECK	BBHA9120A	0499	2013-11-1	2014-10-31
20	BCT-EMC020	Teo Line Single Phase Module	SCHWARZBECK	NSLK8128	8128247	2013-11-1	2014-10-31
21	BCT-EMC021	Triple-Loop Antenna	EVERFINE	LLA-2	711002	2013-11-1	2014-10-31
22	BCT-EMC022	Electric bridge	Jhai	JK2812C	803024	N/A	N/A
23	BCT-EMC026	RF POWER AMPLIFIER	FRANKONIA	FLL-75	1020A1109	2014-4-16	2015-4-17
24	BCT-EMC027	CDN	FRANKONIA	CDN M2+M3	A3027019	2014-4-16	2015-4-17
25	BCT-EMC029	6DB Attenuator	FRANKONIA	N/A	1001698	2014-4-16	2015-4-17
26	BCT-EMC030	EM Injection clamp	FCC	F-2031-23mm	091536	2014-4-16	2015-4-17
27	BCT-EMC031	9kHz-2.4GHz signal generator 2024	MARCONI	10S/6625-99-457-8730	112260/042	2014-4-16	2015-4-17
28	BCT-EMC032	10dB attenuator	ELECTRO-	EM-7600	836	2014-4-16	2015-4-17

			METRICS				
29	BCT-EMC033	ISN	TESEQ	ISN-T800	30301	2013-11-1	2014-10-31
30	BCT-EMC034	10KV surge generator	SANKI	SKS-0510M	048110003E 321	2013-11-1	2014-10-31
31	BCT-EMC035	HRMONICS&FLICK RE ANALYSER	VOLTECH	PM6000	200006700433	2013-11-1	2014-10-31
32	BCT-EMC036	Spectrum Analyzer	R&S	FSP	100397	2013-11-1	2014-10-31
33	BCT-EMC037	Broadband preamplifier	SCH WARZBECK	BBV9718	9718-182	2014-4-16	2015-4-17
34	BCT-EMC038	Power Sensor	Anymetre	TH101B	TR3-01	2014-4-16	2015-4-17

3. SUMMARY OF TEST RESULTS

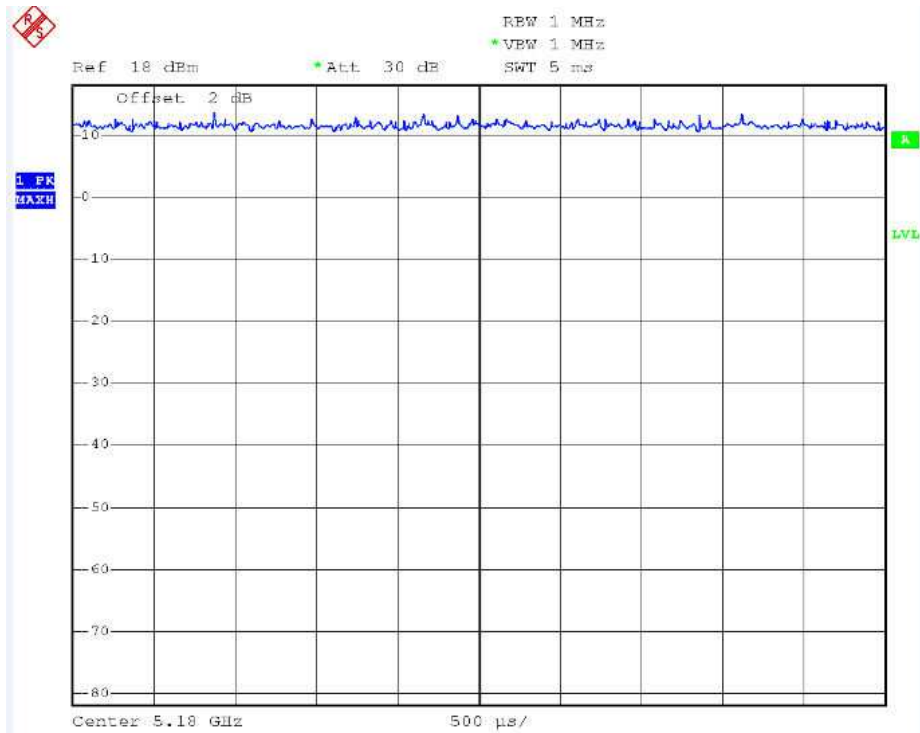
FCC Rules	Description of Test	Test Limit	Result
N/A	Duty Cycle	>99%	Pass
FCC §15.407(a)	26dB Bandwidth	N/A	Pass
FCC §15.407(e)	6dB Bandwidth	≥ 500kHz	Pass
FCC §15.407(a)	Maximum Conducted Output Power	< 30 dBm	Pass
FCC §15.407(a)	Power Spectral Density	< 17 dBm/MHz < 30 dBm/MHz	Pass
FCC §15.407(b)	Band Edges Measurement	< -27dBm/MHz EIRP < -17dBm/MHz EIRP	Pass
FCC §15.407(g)	Frequency Stability	N/A	Pass
FCC §15.209(a)	Radiated Undesirable Emission	Emissions in restricted bands must meet the radiated limits detailed in 15.209	Pass
FCC §15.407(b)	Conducted Undesirable Emission	< -27dBm/MHz	Pass
FCC §15.207(a)	AC Conducted Emissions 150kHz – 30MHz	< FCC 15.207 limits	Pass

4. DUTY CYCLE

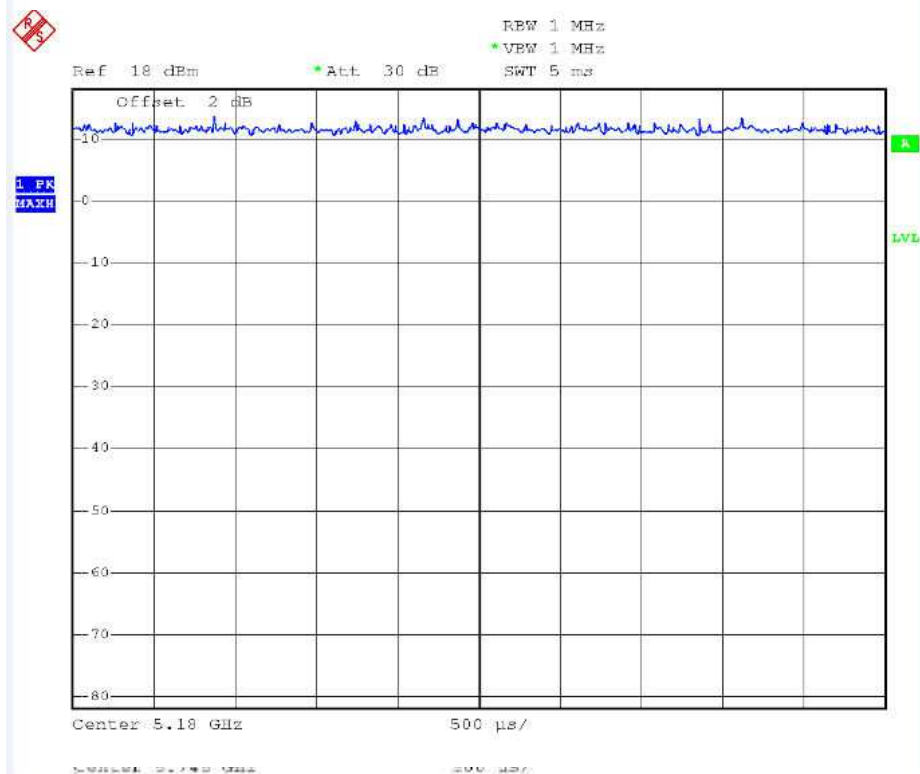
A mode duty cycle

Duty cycle > 99%

5180MHz



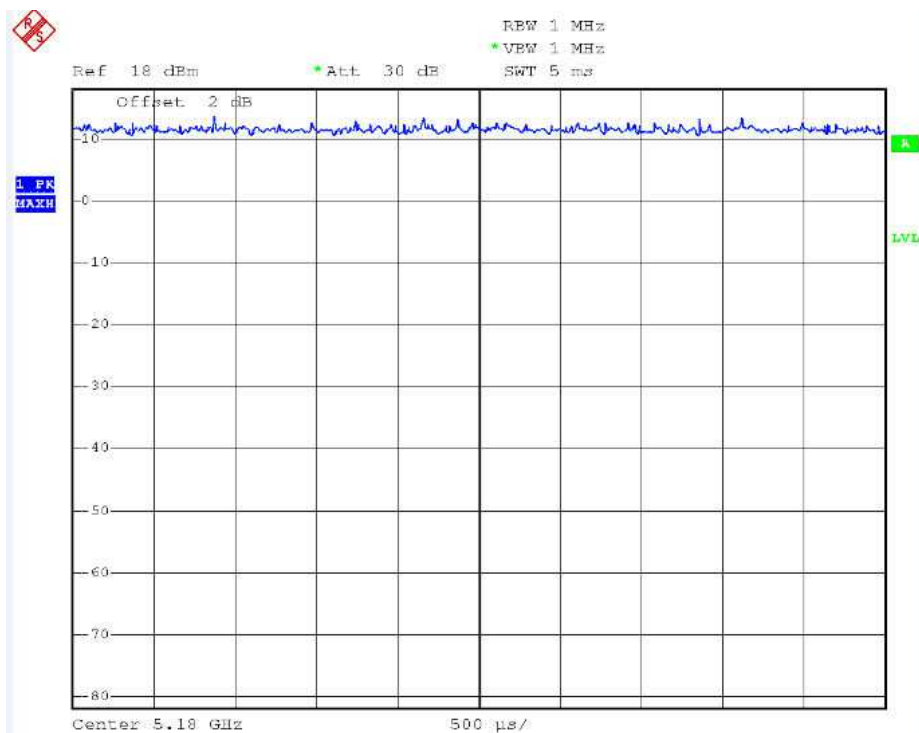
5745MHz



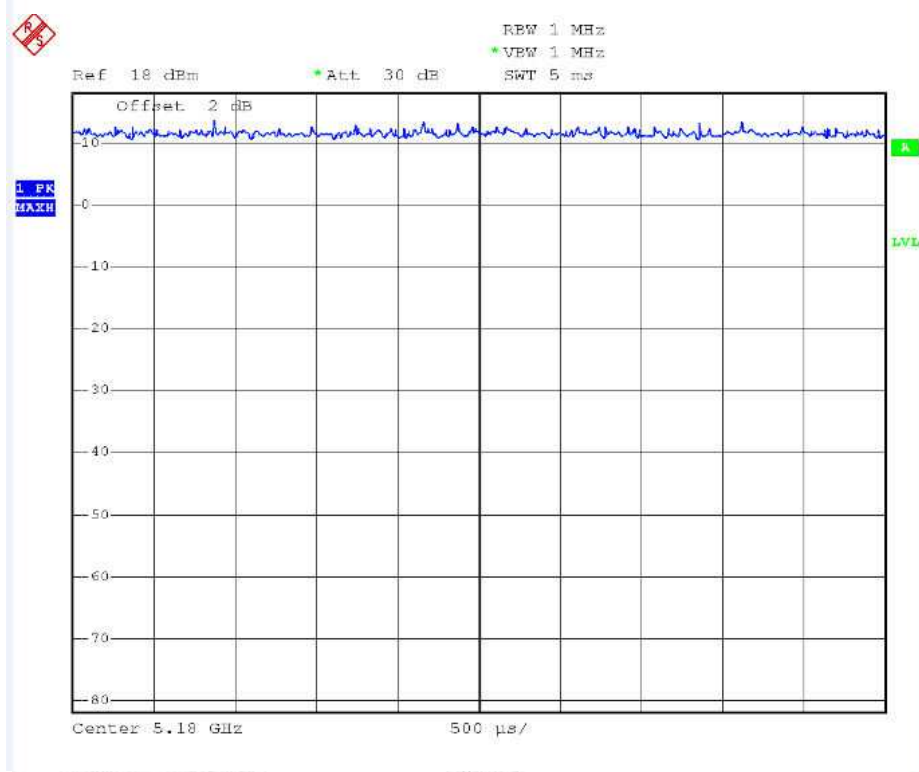
N20 mode duty cycle

Duty cycle > 99%

5180MHz



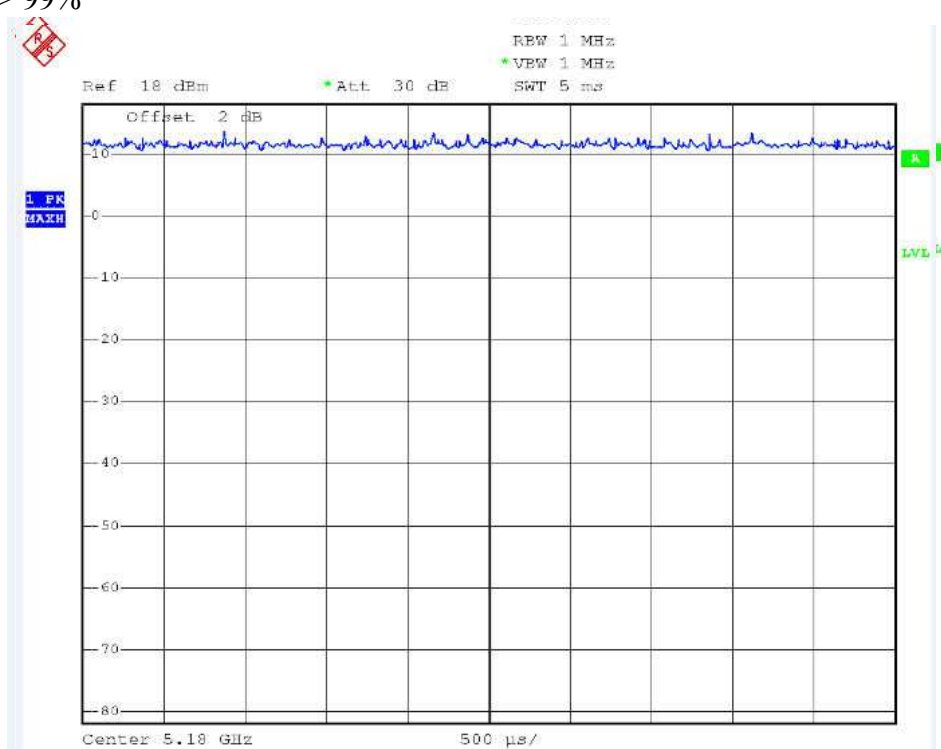
5745MHz



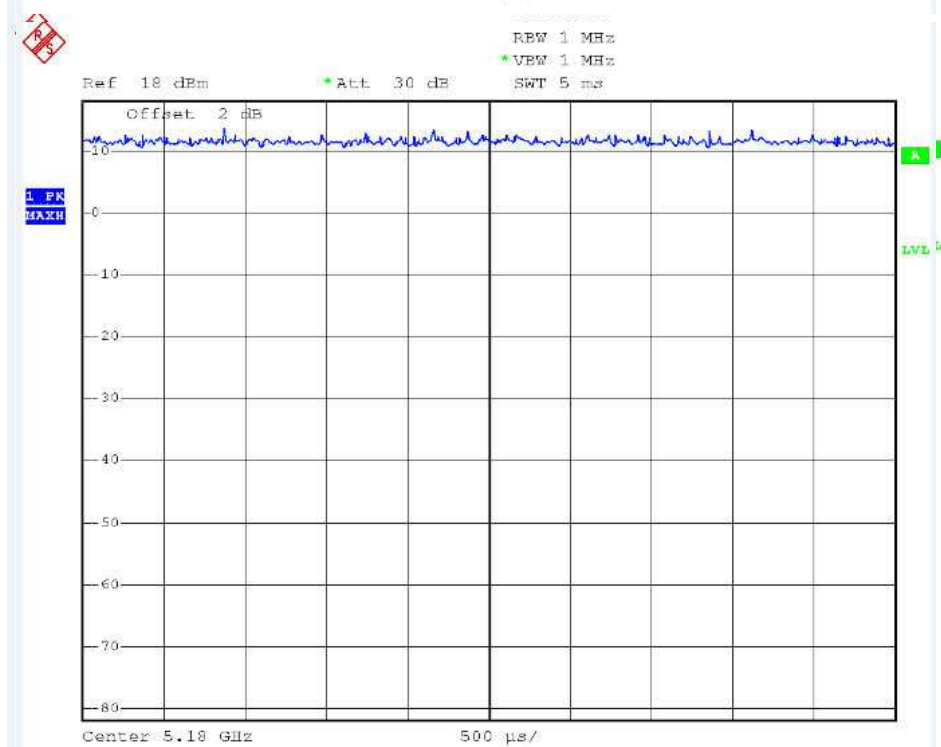
N40 mode duty cycle

Duty cycle > 99%

5190MHz



5755MHz



5. 26 dB EMISSION BANDWIDTH

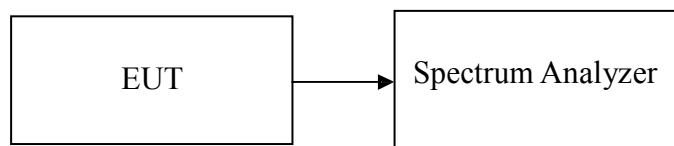
LIMIT

According to §15.303(c), for purposes of this subpart the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Compliance with the emissions limits is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement.

Test Procedure used

KDB 789033 D02v01 – Section C.1

Test Configuration



TEST PROCEDURE

1. The analyzers' automatic bandwidth measurement capability was used to perform the 26dB bandwidth measurement. The "X" dB bandwidth parameter was set to $X = 26$. The automatic bandwidth measurement function also has the capability of simultaneously measuring the 99% occupied bandwidth. The bandwidth measurement was not influenced by any intermediated power nulls in the fundamental emission.
2. RBW = approximately 1% of the emission bandwidth.
3. $VBW \geq 3 \times RBW$.
4. Detector = Peak.
5. Trace mode = max hold.

TEST RESULTS

No non-compliance noted

Test Data**Test mode: IEEE 802.11a mode / 5180 ~ 5240MHz**

Channel	Frequency (MHz)	Ant. Port	Bandwidth (MHz)	99%Bandwidth (MHz)
Low	5180	Chain 1	21.92	16.88
		Chain 2	21.76	16.88
Mid	5220	Chain 1	21.52	16.88
		Chain 2	21.36	16.88
Hig	5240	Chain 1	22.56	16.88
		Chain 2	22.64	16.88

Test mode: IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz

Channel	Frequency (MHz)	Ant. Port	Bandwidth (B) (MHz)	99%Bandwidth (MHz)
Low	5180	Chain 1	23.92	18.08
		Chain 2	23.68	18.08
Mid	5220	Chain 1	23.44	18.00
		Chain 2	23.36	18.00
Hig	5240	Chain 1	22.96	18.00
		Chain 2	23.28	18.00

Test mode: IEEE 802.11n HT 40 MHz Channel mode / 5190 ~ 5230MHz

Channel	Frequency (MHz)	Ant. Port	Bandwidth (B) (MHz)	99%Bandwidth (MHz)
Low	5190	Chain 1	44.96	36.48
		Chain 2	44.64	36.48
Hig	5230	Chain 1	44.64	36.48
		Chain 2	44.80	36.48

Test mode: IEEE 802.11a mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	Ant. Port	Bandwidth (MHz)	99%Bandwidth (MHz)
Low	5745	Chain 1	23.36	17.20
		Chain 2	23.12	17.20
Mid	5785	Chain 1	24.88	17.36
		Chain 2	24.72	17.36
Hig	5825	Chain 1	26.56	17.44
		Chain 2	28.40	17.36

Test mode: IEEE 802.11n HT 20 MHz Channel mode / 5745 ~ 5825MHz

Channel	Frequency (MHz)	Ant. Port	Bandwidth (B) (MHz)	99%Bandwidth (MHz)
Low	5745	Chain 1	26.08	18.32
		Chain 2	26.00	18.32
Mid	5785	Chain 1	24.72	18.24
		Chain 2	24.56	18.16
Hig	5825	Chain 1	26.64	18.40
		Chain 2	24.96	18.32

Test mode: IEEE 802.11n HT 40 MHz Channel mode / 5755 ~ 5825MHz

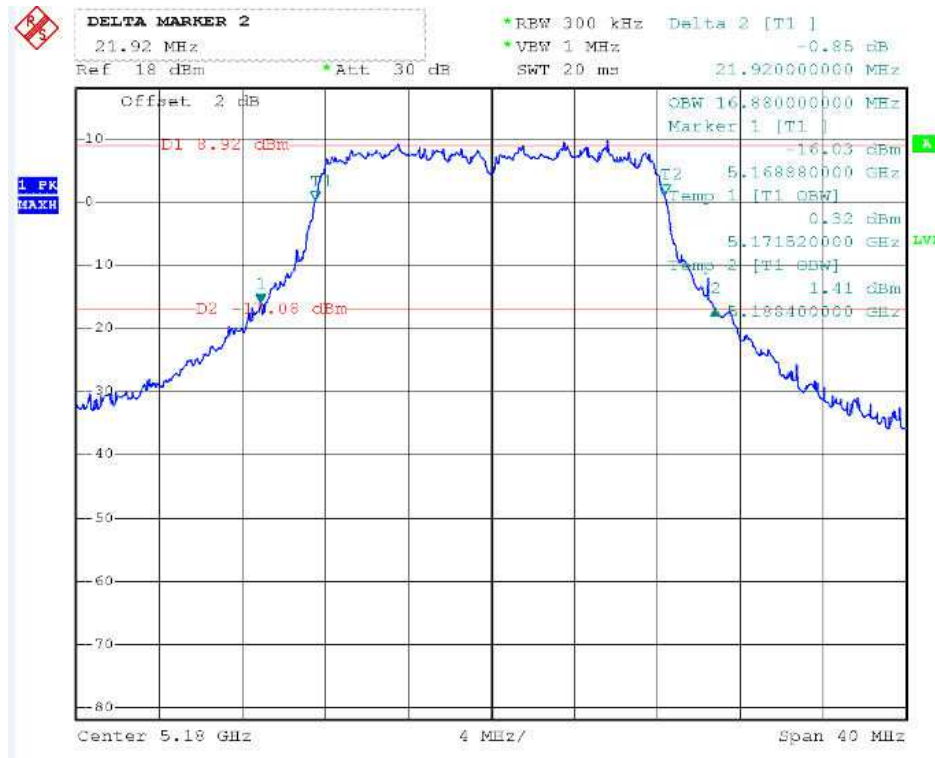
Channel	Frequency (MHz)	Ant. Port	Bandwidth (B) (MHz)	99%Bandwidth (MHz)
Low	5755	Chain 1	59.76	36.64
		Chain 2	57.84	36.48
Hig	5795	Chain 1	49.68	36.64
		Chain 2	50.00	36.64

Chain 1

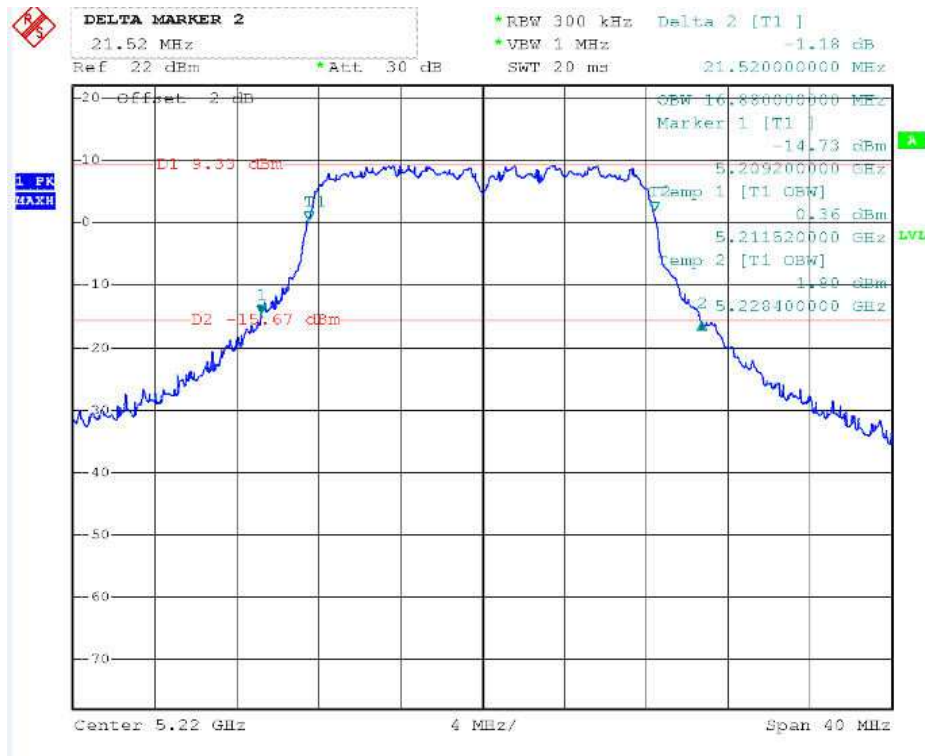
Test Plot

IEEE 802.11a for 5180 ~ 5240MHz

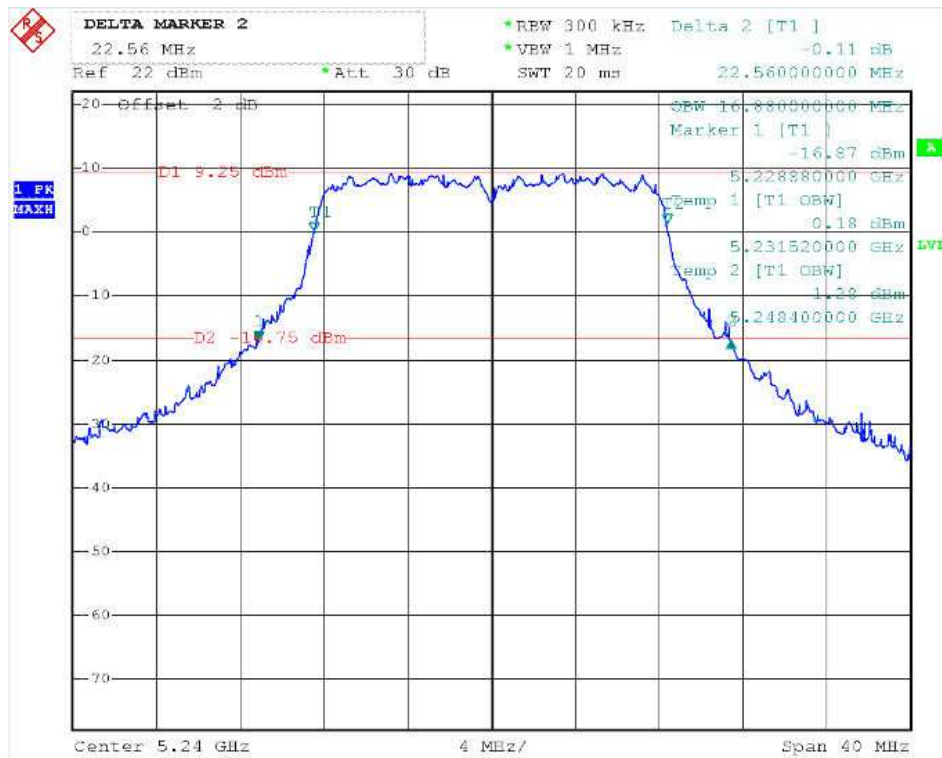
CH Low



CH Mid

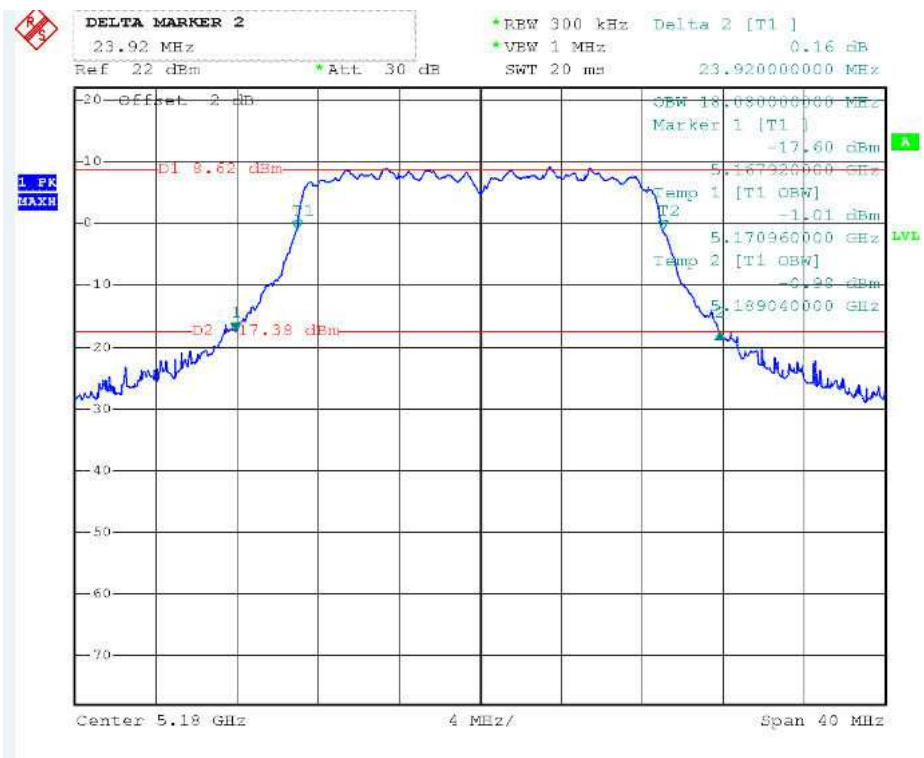


CH High

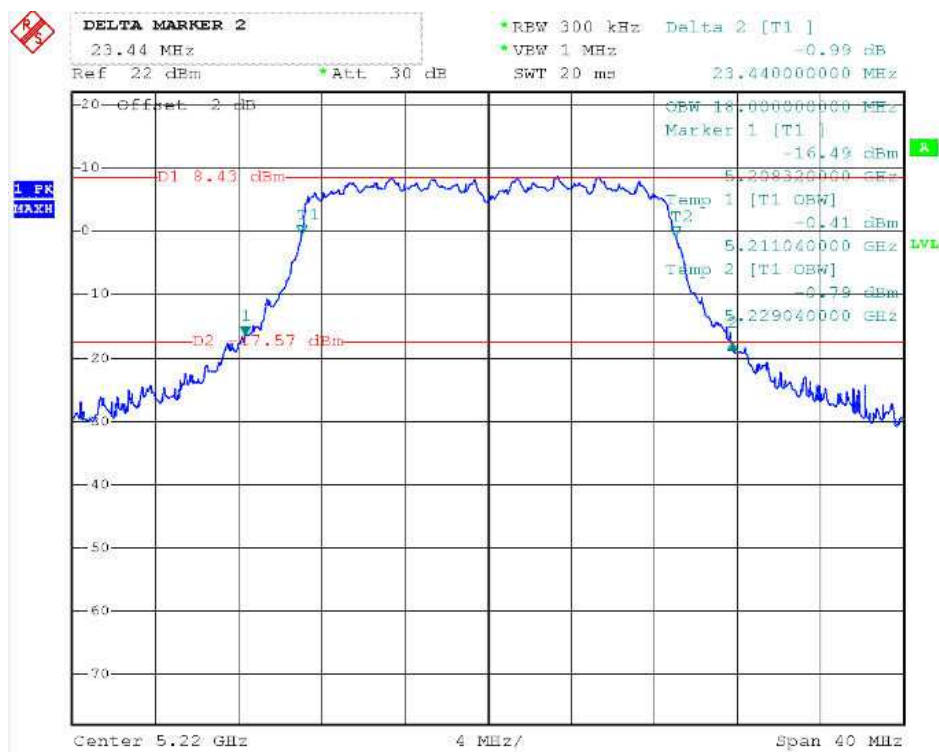


IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz

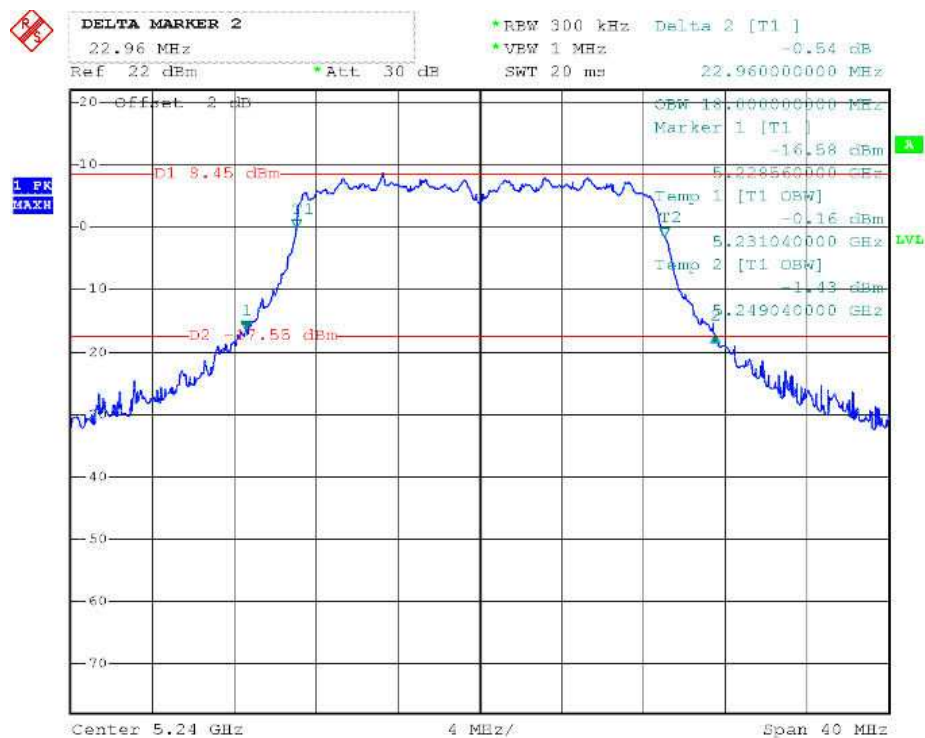
CH Low



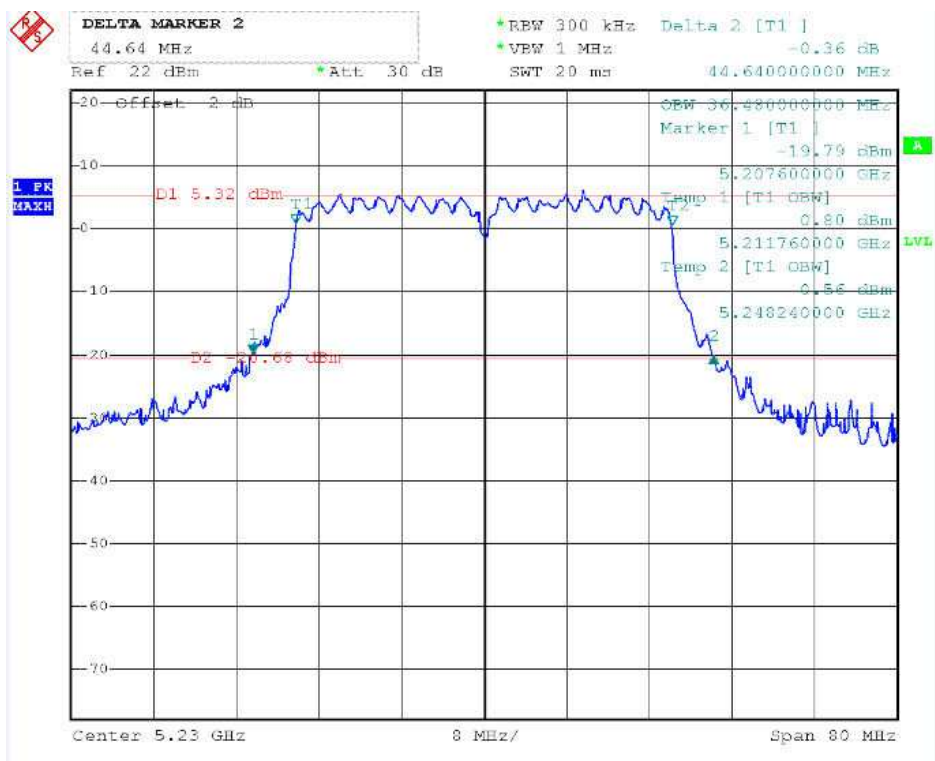
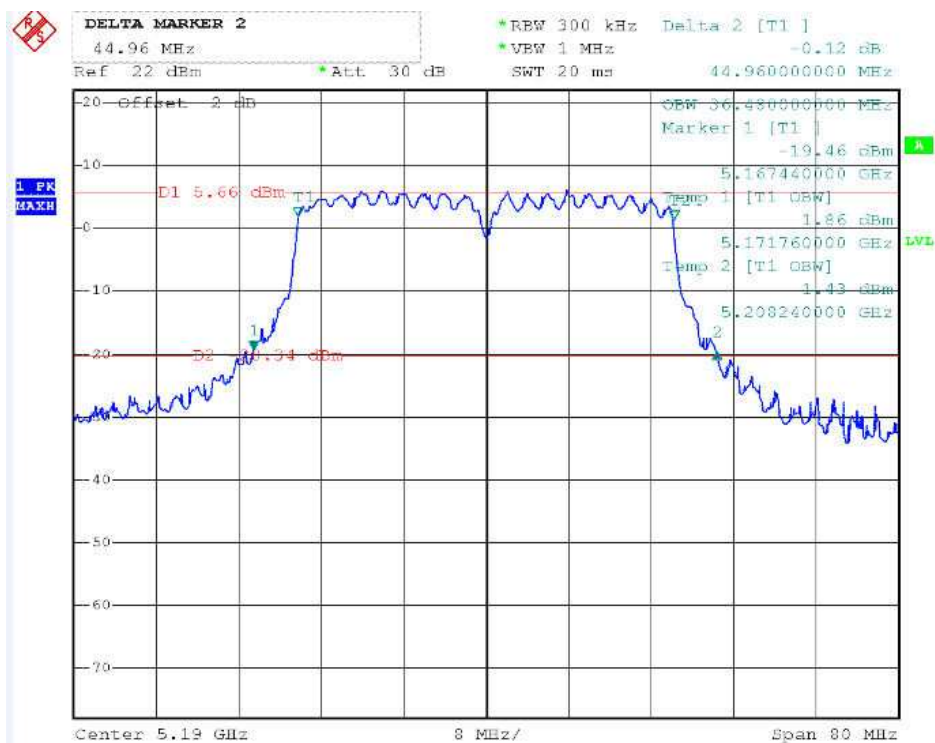
CH Mid



CH High



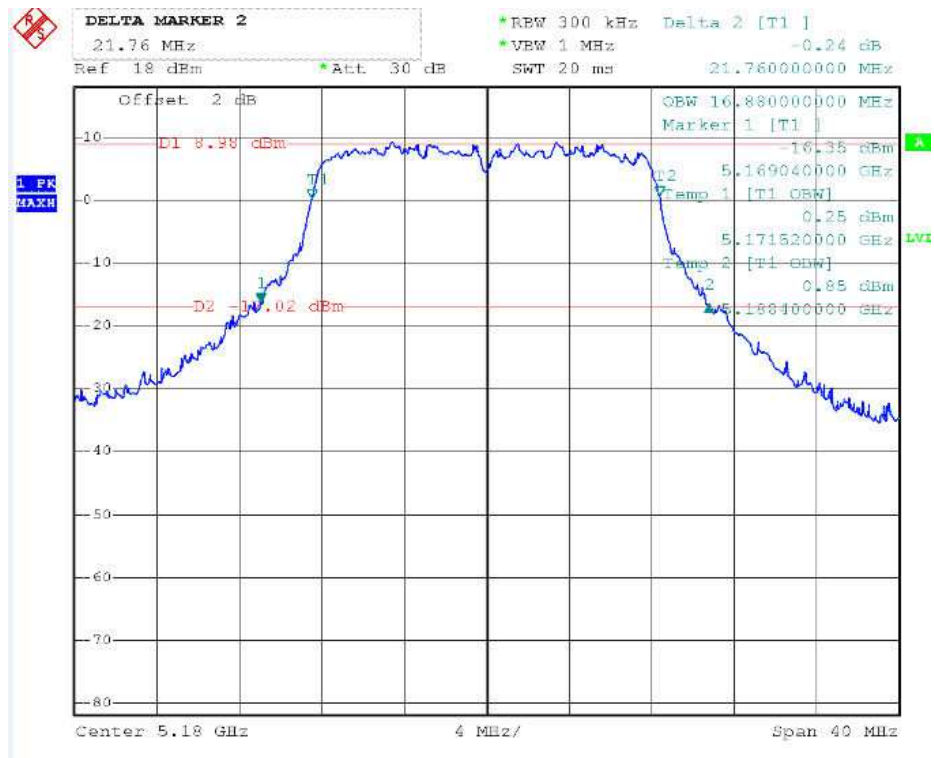
CH Low



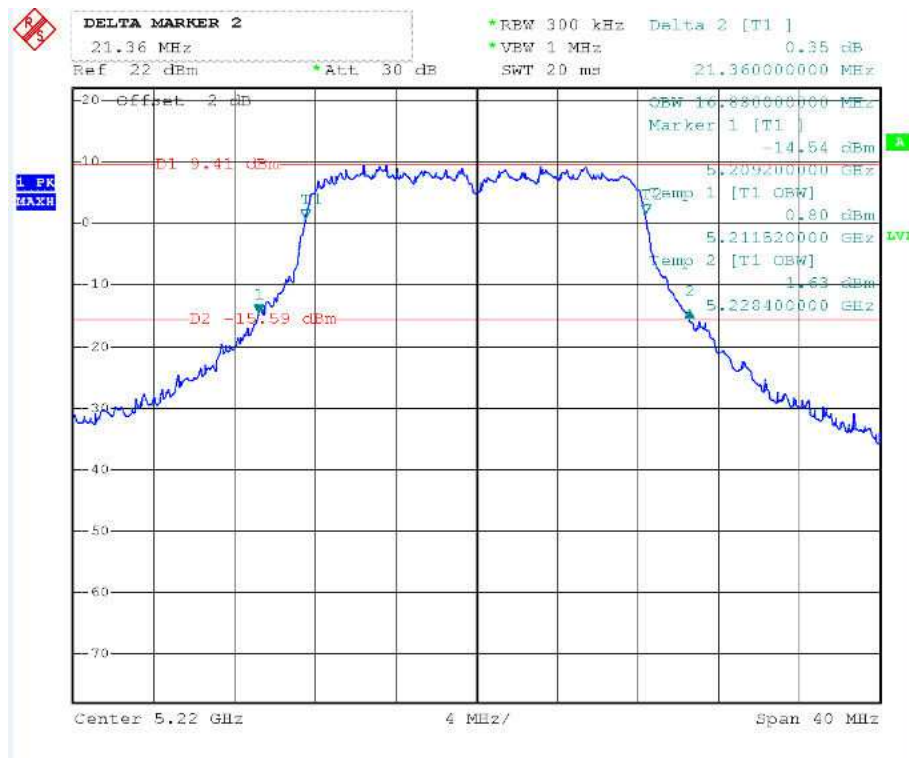
Chain 2

IEEE 802.11a for 5180 ~ 5240MHz

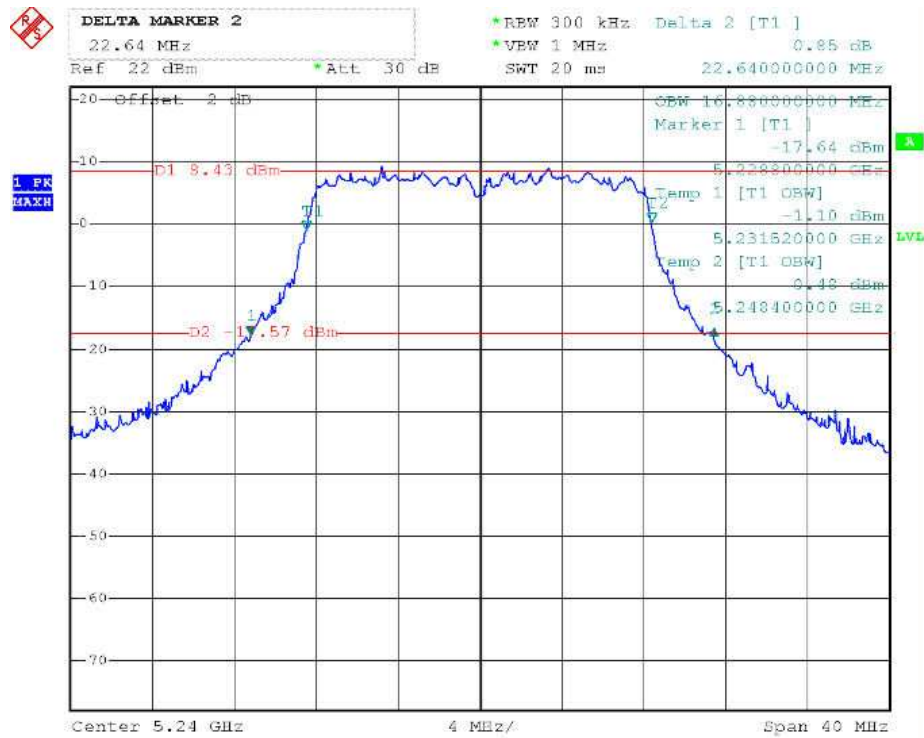
CH Low



CH Mid

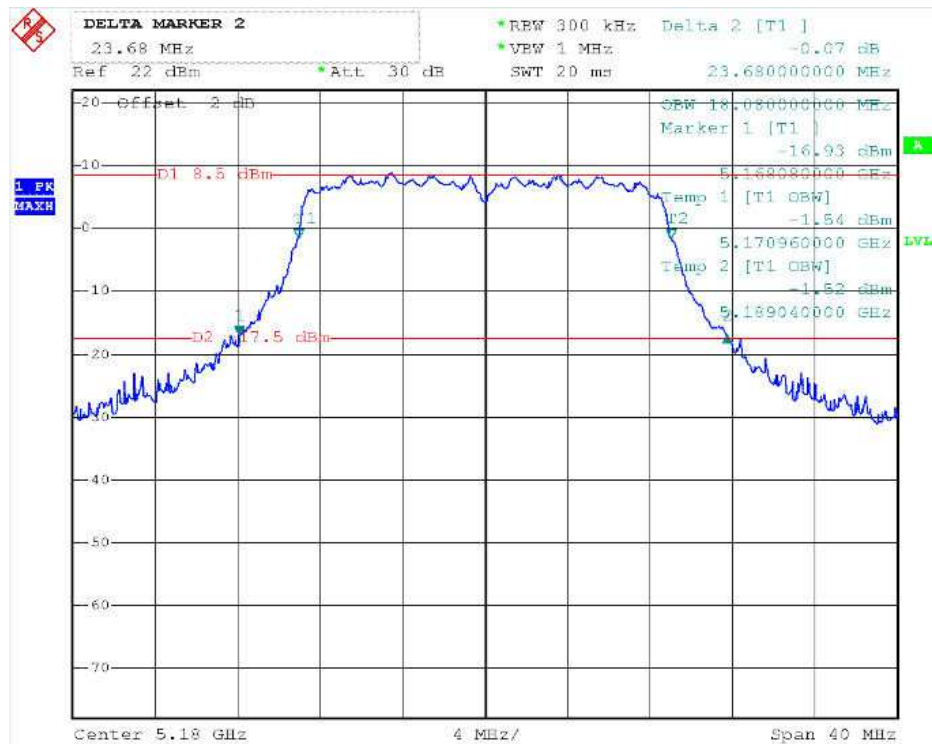


CH High

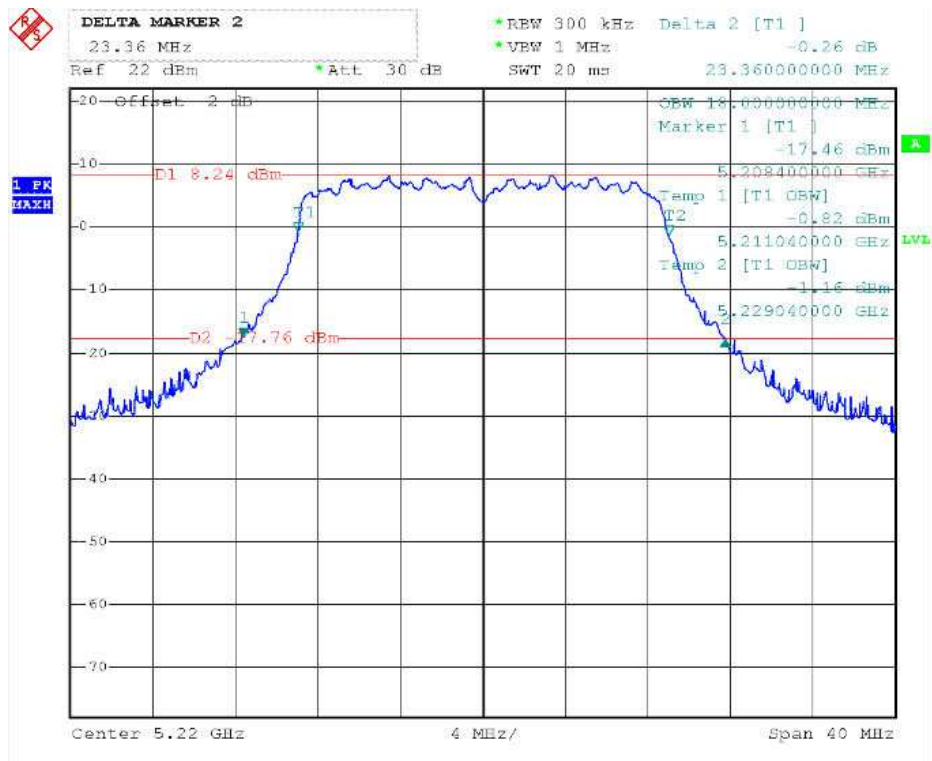


IEEE 802.11n HT 20 MHz Channel mode / 5180 ~ 5240MHz

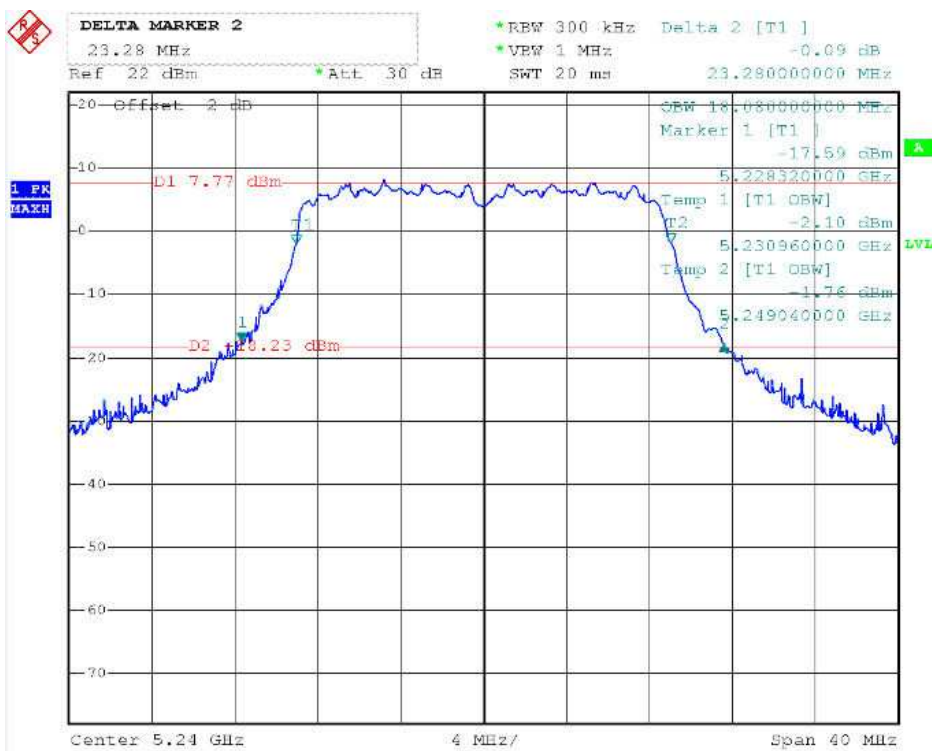
CH Low



CH Mid

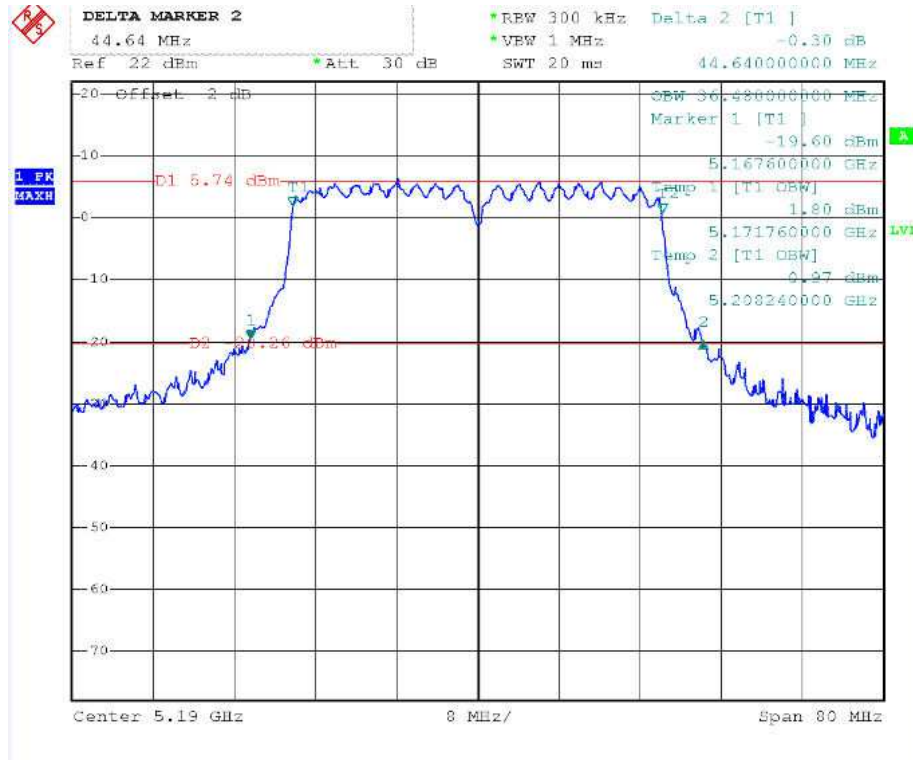


CH High

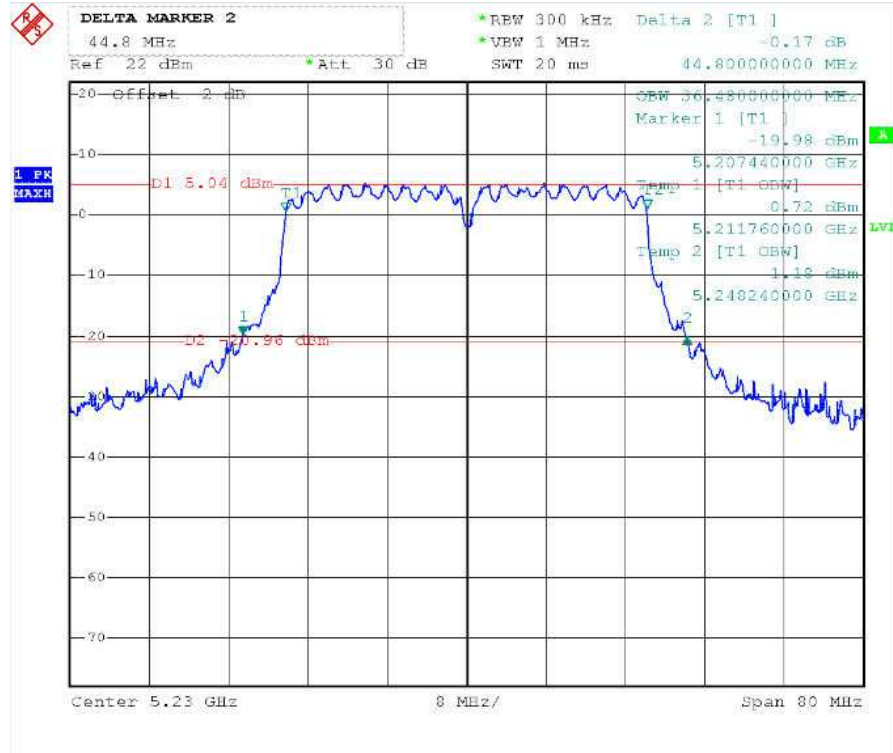


IEEE 802.11n HT 40 MHz Channel mode / 5190 ~ 5230MHz

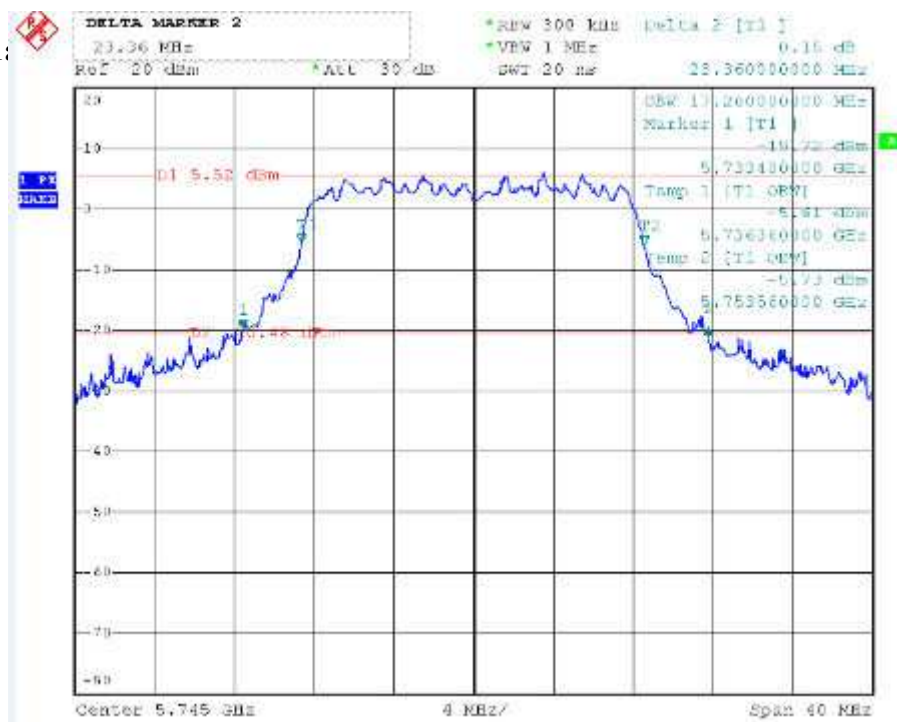
CH Low



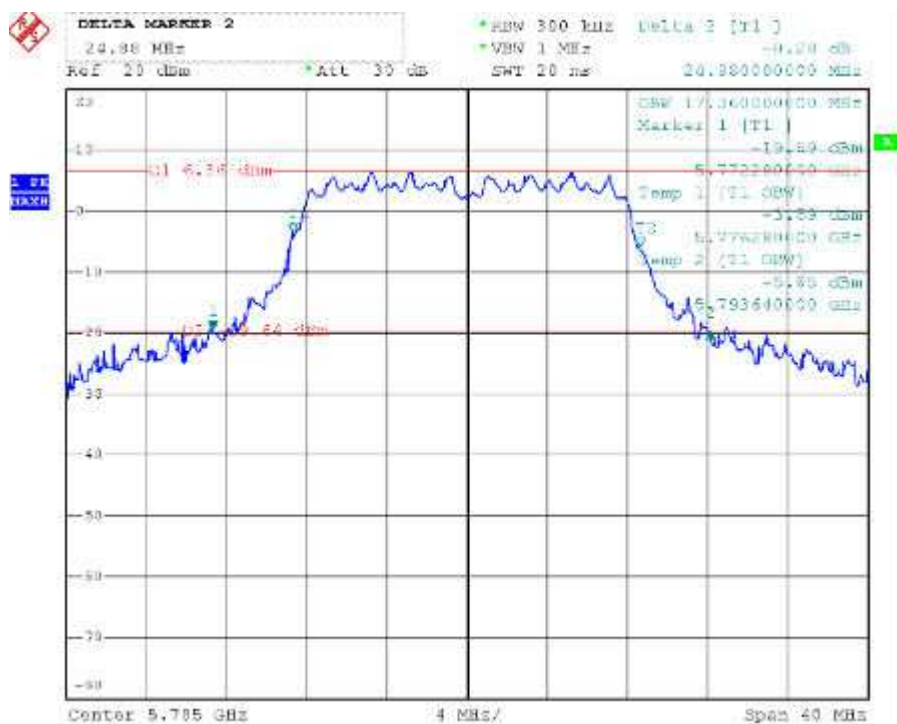
CH High



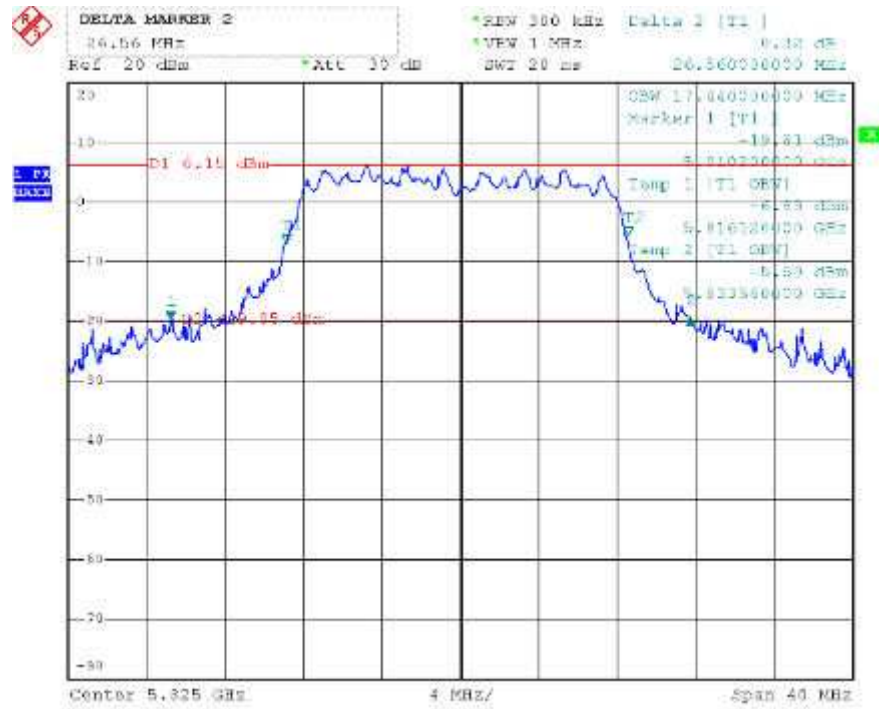
IEEE 802.11: CH Low



CH Mid

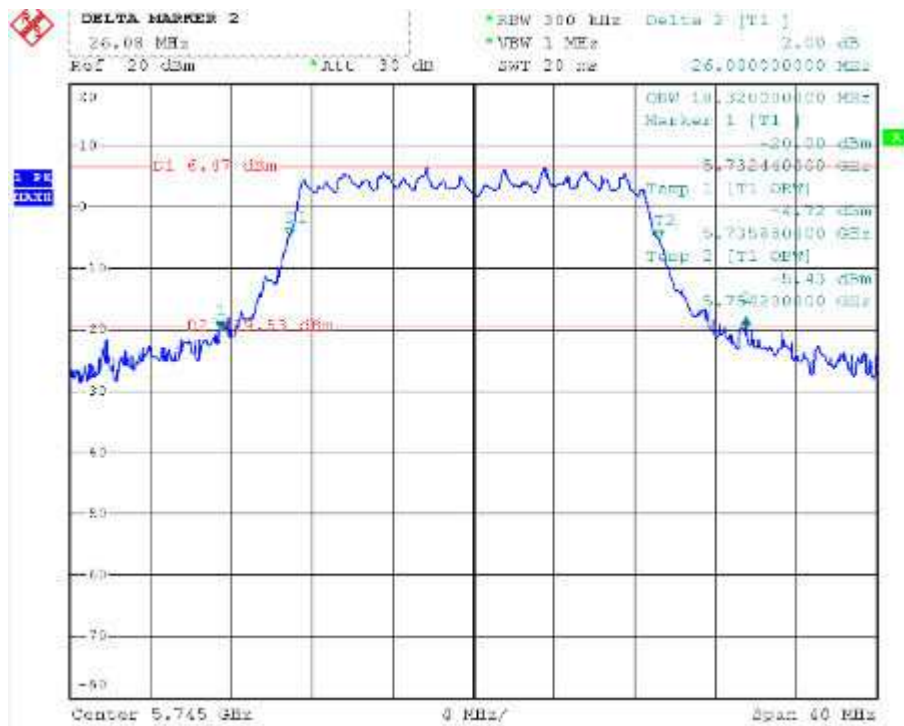


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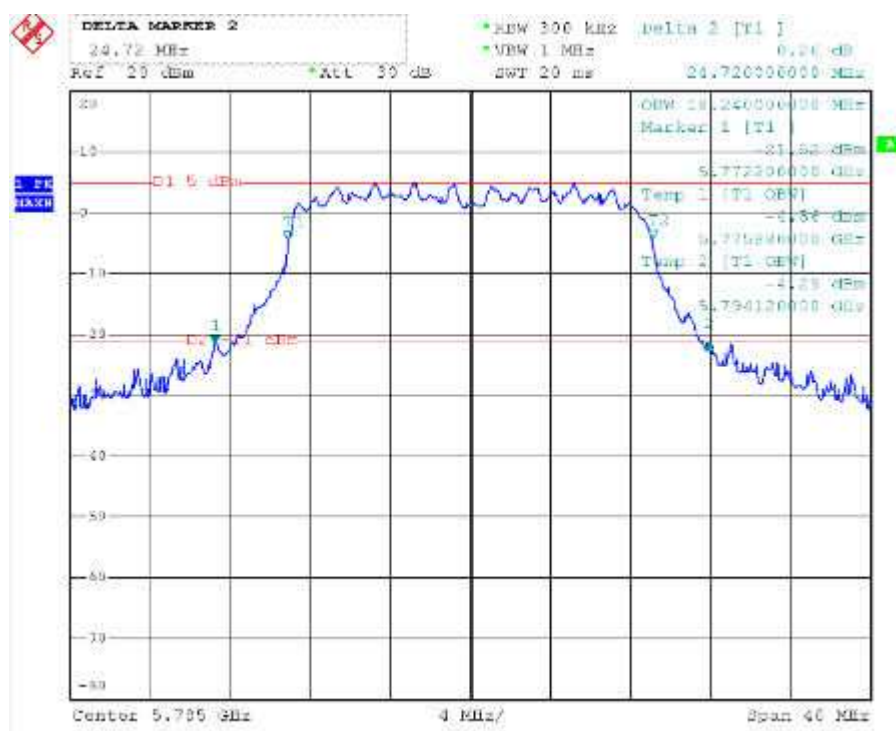


IEEE 802.11n HT 20 MHz Channel mode / 5745 ~ 5825MHz

CH Low



CH Mid

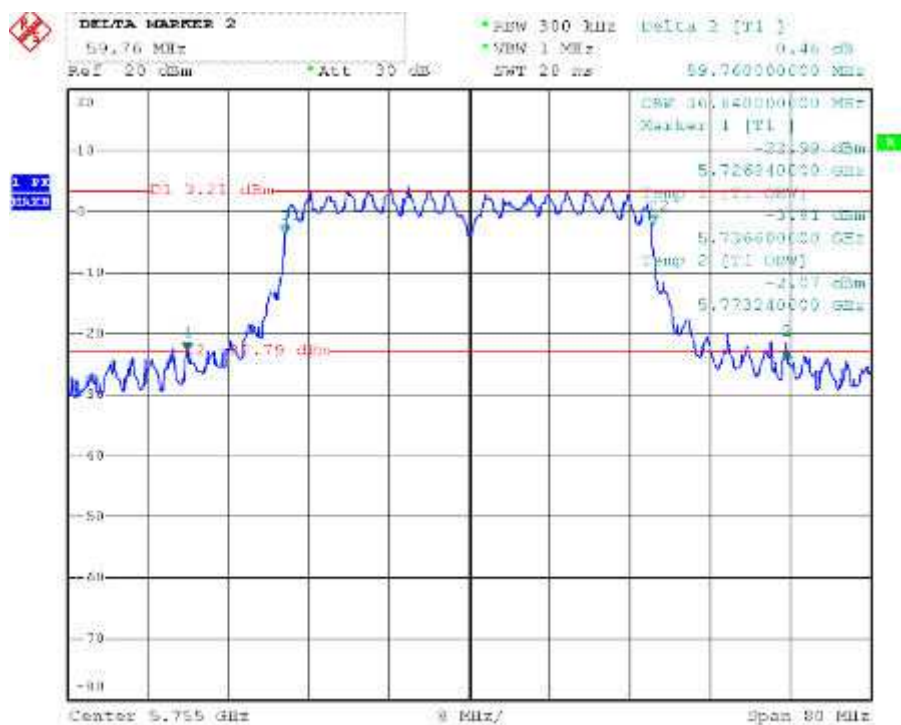


CH High

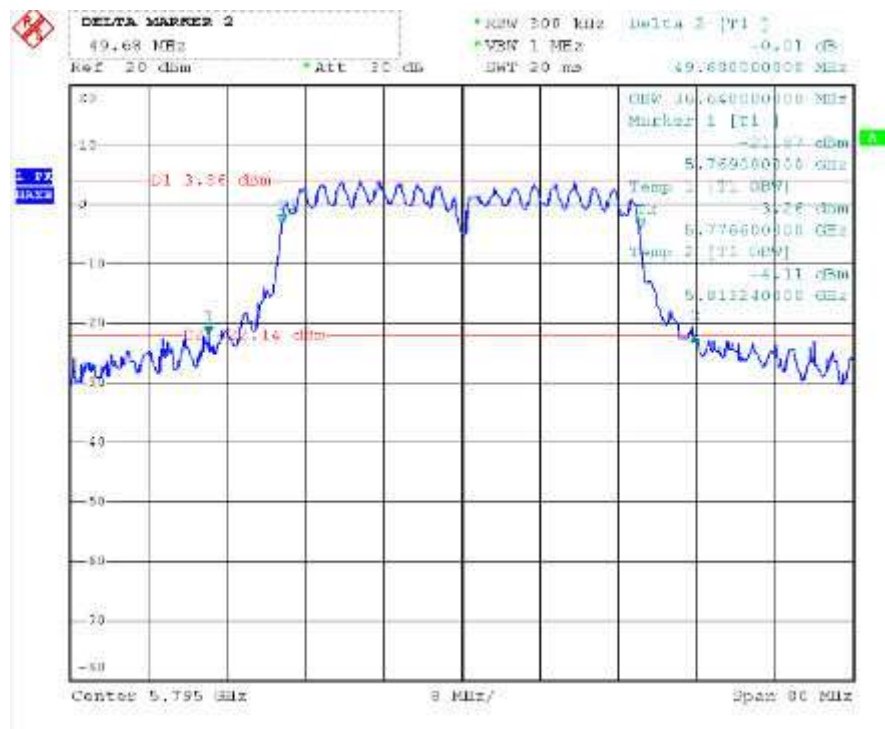


IEEE 802.11n HT 40 MHz Channel mode / 5755 ~ 5795MHz

CH Low



CH High

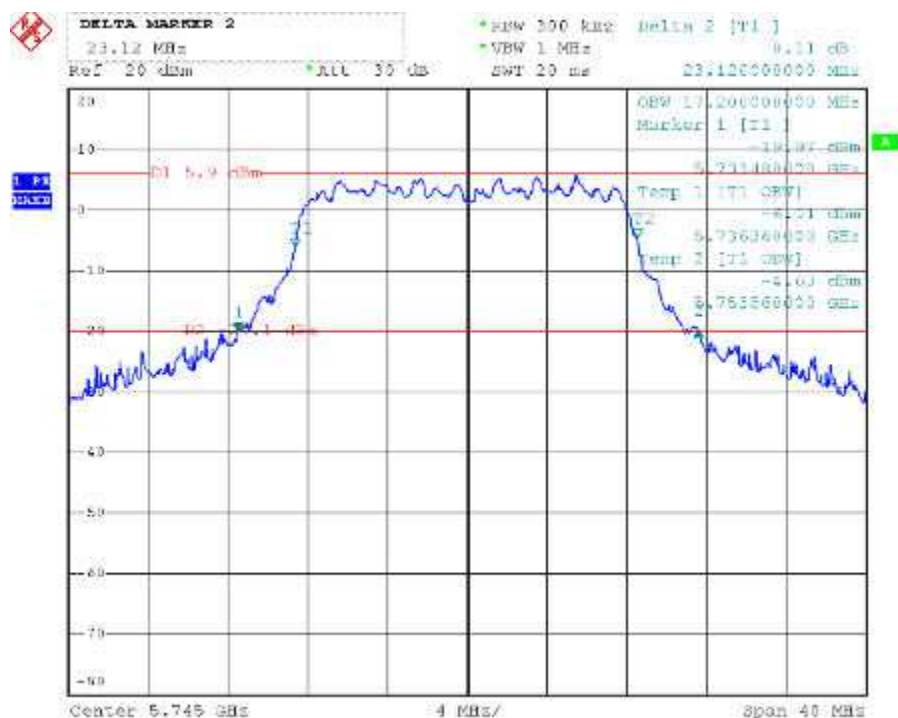


Chain 2

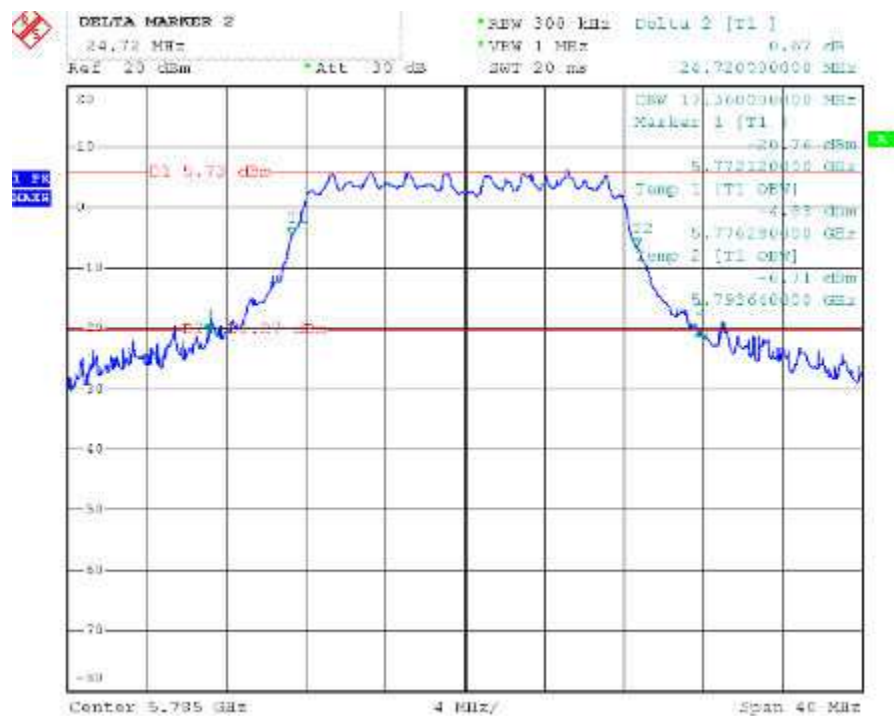
Test Plot

IEEE 802.11a for 5745 ~ 5825MHz

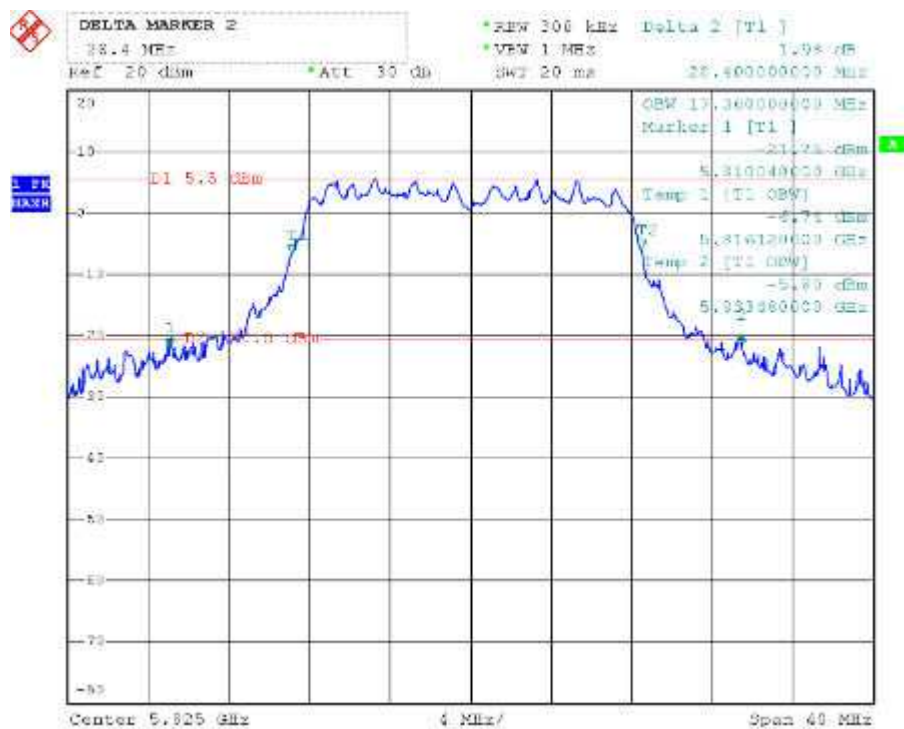
CH Low



CH Mid

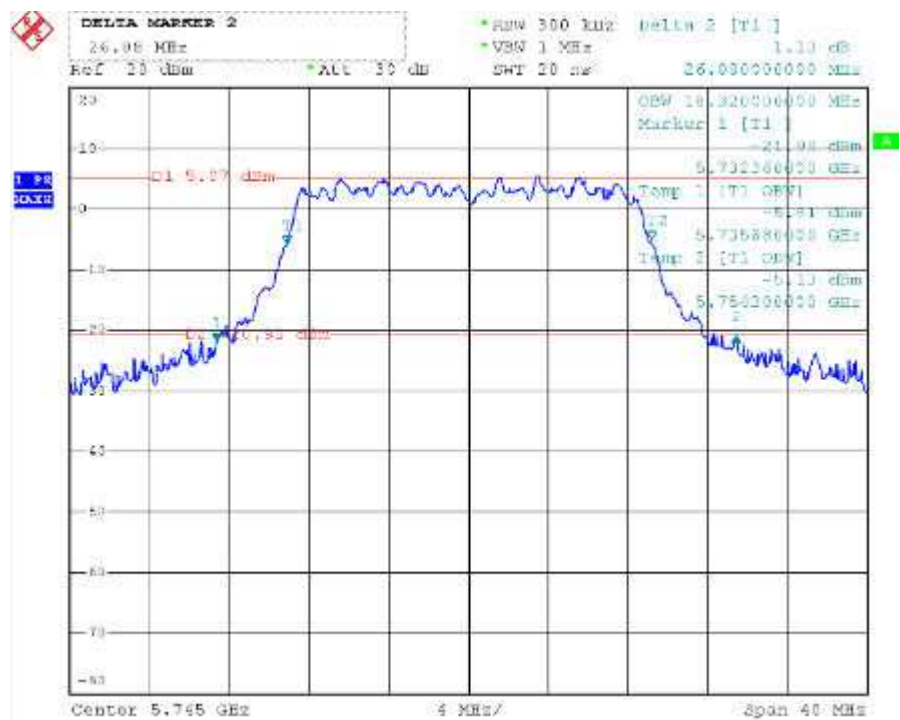


CH High

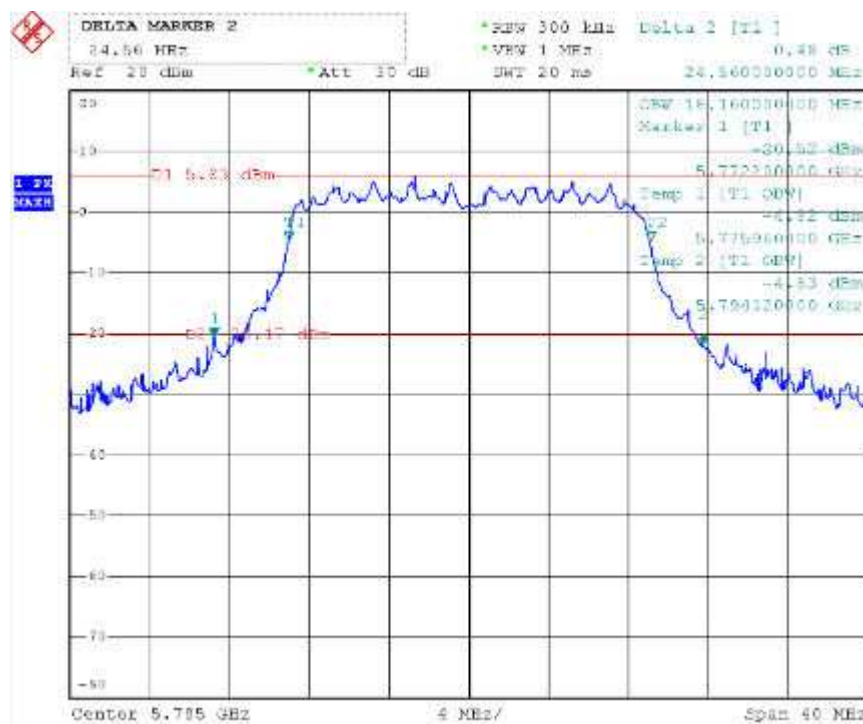


IEEE 802.11n HT 20 MHz Channel mode / 5745 ~ 5825MHz

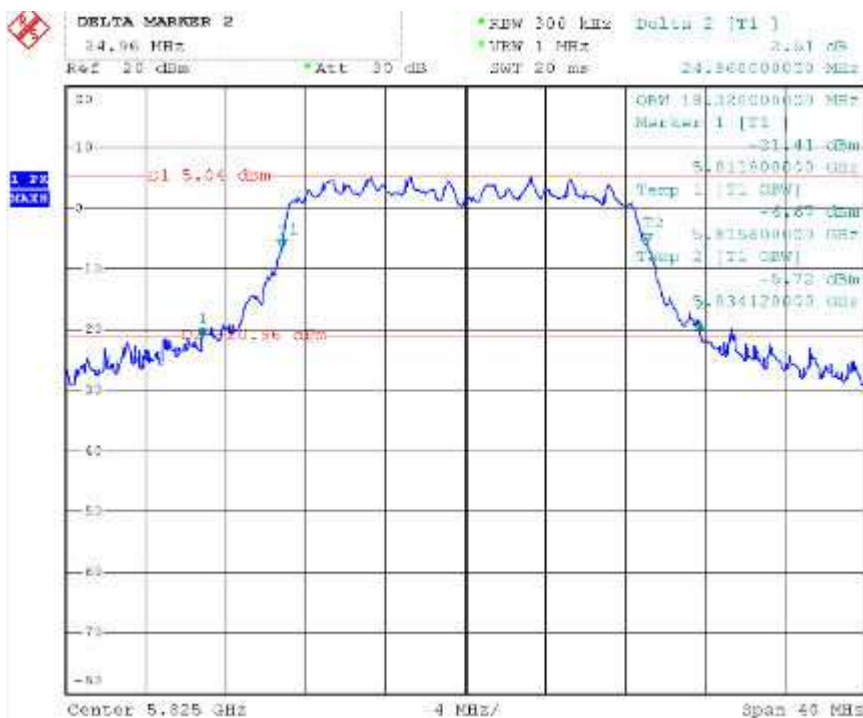
CH Low



CH Mid

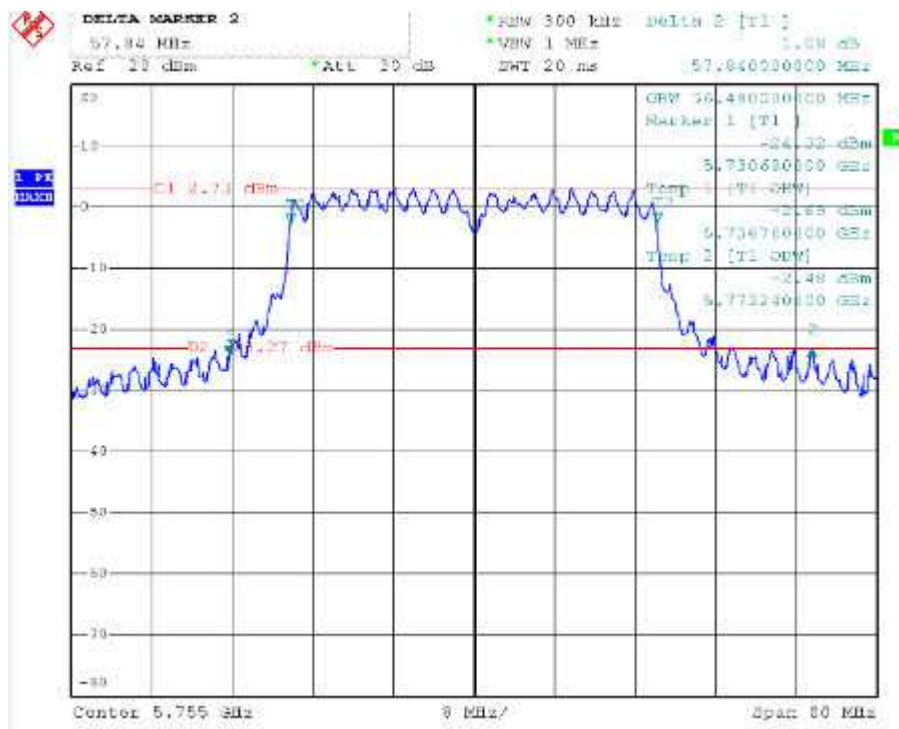


CH High

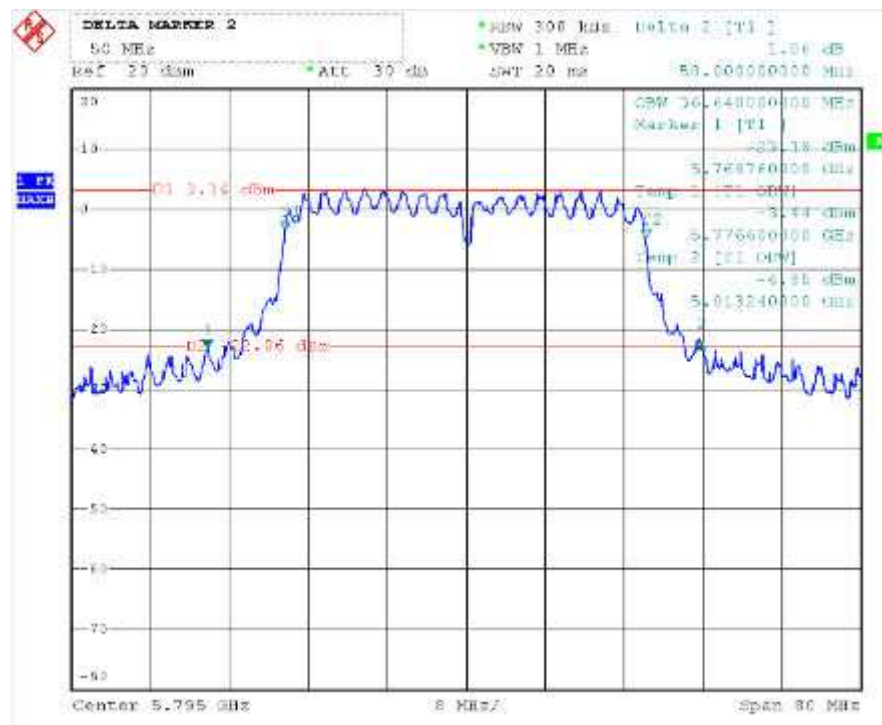


IEEE 802.11n HT 40 MHz Channel mode / 5755 ~ 5795MHz

CH Low



CH High



6. THE MAXIMUM E.I.R.P & MAXIMUM CONDUCTED OUTPUT POWER

6.1 LIMIT

According to §15.407(a),

- (1) For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed the lesser of 1 W . The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).
- (2) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W

If transmitting antennas of directional gain greater than 6dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

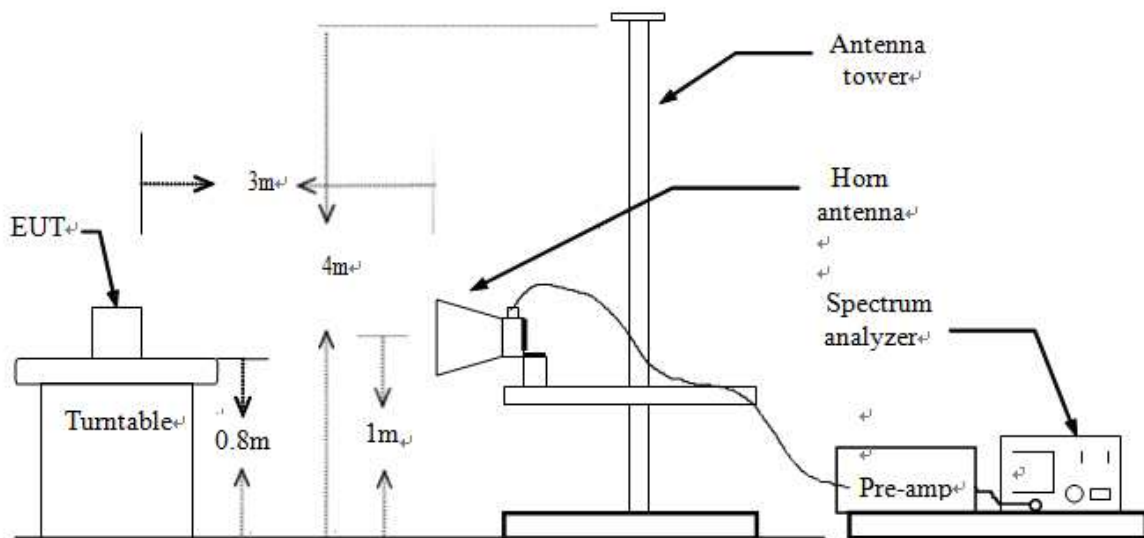
5.15-5.25GHz: Limit (dBm) = 30dBm.

5.725-5.85GHz: Limit (dBm) = 30dBm.

6.2 Test Procedure Used

KDB 789033 D02v01 - Section E) 3) b) Method PM-G

6.3 Radiation measurement Test Configuration



TEST PROCEDURE

1. The EUT is placed on a turntable, which is 0.8m above ground plane.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz

duty cycle ≥ 98 percent, set VBW $\leq$ RBW/100 but not less than 10 Hz.

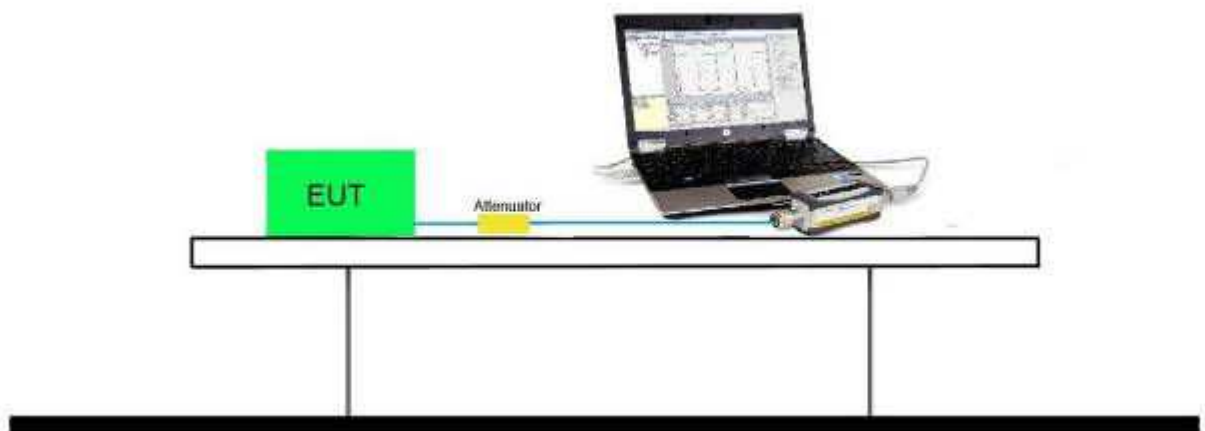
duty cycle < 98 percent, set VBW $\geq 1/T$

/ Sweep=AUTO

7. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.
8. Repeat above procedures until the measurements for all frequencies are complete.

6.3 Conduction measurement Test Configuration

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



TEST RESULTS

No non-compliance noted

THE E.I.R.P TEST DATA

5150-5250MHz

3dBi Omni-directional Antenna

Mode	Test CH	Antenna. Pol	EIRP (dBm)	Limit (dBm)	Result
802.11a	Low	V	19.33	21.00	Pass
		H	15.34		
	Mid	V	18.34	21.00	Pass
		H	15.29		
	High	V	18.02	21.00	Pass
		H	14.28		
802.11n20	Low	V	17.31	21.00	Pass
		H	15.13		
	Mid	V	17.33	21.00	Pass
		H	14.56		
	High	V	16.99	21.00	Pass
		H	14.25		
802.11n40	Low	V	17.22	21.00	Pass
		H	13.58		
	High	V	17.16	21.00	Pass
		H	13.20		

15dBi Omni-directional Antenna

Mode	Test CH	Antenna. Pol	EIRP (dBm)	Limit (dBm)	Result
802.11a	Low	V	18.69	21.00	Pass
		H	15.66		
	Mid	V	18.21	21.00	Pass
		H	15.01		
	High	V	18.23	21.00	Pass
		H	14.66		
802.11n20	Low	V	17.69	21.00	Pass
		H	14.88		
	Mid	V	17.56	21.00	Pass
		H	14.23		
	High	V	16.77	21.00	Pass
		H	14.85		
802.11n40	Low	V	17.22	21.00	Pass
		H	13.44		
	High	V	17.98	21.00	Pass
		H	13.63		

19dBi Sector Antenna

Mode	Test CH	Antenna. Pol	EIRP (dBm)	Limit (dBm)	Result
802.11a	Low	V	18.59	21.00	Pass
		H	15.66		
	Mid	V	18.22	21.00	Pass
		H	15.85		
	High	V	18.22	21.00	Pass
		H	14.25		
802.11n20	Low	V	17.26	21.00	Pass
		H	15.22		
	Mid	V	17.88	21.00	Pass
		H	13.59		
	High	V	16.78	21.00	Pass
		H	14.26		
802.11n40	Low	V	16.24	21.00	Pass
		H	14.22		
	High	V	16.22	21.00	Pass
		H	13.87		

23dBi Panel Antenna

Mode	Test CH	Antenna. Pol	EIRP (dBm)	Limit (dBm)	Result
802.11a	Low	V	18.34	21.00	Pass
		H	16.44		
	Mid	V	18.24	21.00	Pass
		H	15.89		
	High	V	18.55	21.00	Pass
		H	15.24		
802.11n20	Low	V	18.32	21.00	Pass
		H	15.55		
	Mid	V	17.69	21.00	Pass
		H	15.02		
	High	V	16.33	21.00	Pass
		H	15.66		
802.11n40	Low	V	17.68	21.00	Pass
		H	14.32		
	High	V	16.28	21.00	Pass
		H	13.44		

30dBi Dish Antenna

Mode	Test CH	Antenna. Pol	EIRP (dBm)	Limit (dBm)	Result
802.11a	Low	V	19.24	21.00	Pass
		H	15.54		
	Mid	V	18.78	21.00	Pass
		H	15.21		
	High	V	18.22	21.00	Pass
		H	15.88		
802.11n20	Low	V	18.32	21.00	Pass
		H	15.65		
	Mid	V	17.88	21.00	Pass
		H	14.22		
	High	V	17.99	21.00	Pass
		H	14.29		
802.11n40	Low	V	17.58	21.00	Pass
		H	14.48		
	High	V	17.30	21.00	Pass
		H	15.26		

OUTPUT POWER TEST DATA **5150-5250MHz**

3dBi Omni-directional Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	25.66	28.54	30.00	Pass
		Chain 2	25.39			
	Mid	Chain 1	25.34	28.29	30.00	Pass
		Chain 2	25.22			
	High	Chain 1	25.25	28.18	30.00	Pass
		Chain 2	25.08			
802.11n20	Low	Chain 1	25.31	28.23	30.00	Pass
		Chain 2	25.13			
	Mid	Chain 1	25.15	28.22	30.00	Pass
		Chain 2	25.27			
	High	Chain 1	25.01	28.09	30.00	Pass
		Chain 2	25.15			
802.11n40	Low	Chain 1	25.37	28.38	30.00	Pass
		Chain 2	25.37			
	High	Chain 1	25.13	28.18	30.00	Pass
		Chain 2	25.21			

Remark: The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

5150-5250MHz

15dBi Omni-directional Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	16.27	19.32	21.00	Pass
		Chain 2	16.34			
	Mid	Chain 1	16.48	19.34	21.00	Pass
		Chain 2	16.18			
	High	Chain 1	16.15	19.14	21.00	Pass
		Chain 2	16.11			
802.11n20	Low	Chain 1	16.46	19.34	21.00	Pass
		Chain 2	16.19			
	Mid	Chain 1	16.47	19.38	21.00	Pass
		Chain 2	16.26			
	High	Chain 1	16.24	19.18	21.00	Pass
		Chain 2	16.10			
802.11n40	Low	Chain 1	16.17	19.16	21.00	Pass
		Chain 2	16.12			
	High	Chain 1	16.41	19.34	21.00	Pass
		Chain 2	16.25			

Remark: Power limit = 30dBm - (antenna gain - 6) = 21dBm

$$\text{The Total Average Power (dBm)} = 10 * \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}.$$

5150-5250MHz

19dBi Sector Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	12.41	15.41	17.00	Pass
		Chain 2	12.38			
	Mid	Chain 1	12.30	15.38	17.00	Pass
		Chain 2	12.43			
	High	Chain 1	12.16	15.12	17.00	Pass
		Chain 2	12.05			
802.11n20	Low	Chain 1	12.62	15.41	17.00	Pass
		Chain 2	12.17			
	Mid	Chain 1	12.90	15.61	17.00	Pass
		Chain 2	12.27			
	High	Chain 1	12.51	15.30	17.00	Pass
		Chain 2	12.06			
802.11n40	Low	Chain 1	12.39	15.28	17.00	Pass
		Chain 2	12.15			
	High	Chain 1	12.48	15.36	17.00	Pass
		Chain 2	12.22			

Remark: Power limit = 30dBm - (antenna gain - 6) = 17dBm

The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

5150-5250MHz

23dBi Panel Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	8.78	11.86	13.00	Pass
		Chain 2	8.91			
	Mid	Chain 1	8.83	11.64	13.00	Pass
		Chain 2	8.43			
	High	Chain 1	8.82	11.61	13.00	Pass
		Chain 2	8.37			
802.11n20	Low	Chain 1	8.43	11.47	13.00	Pass
		Chain 2	8.48			
	Mid	Chain 1	8.69	11.69	13.00	Pass
		Chain 2	8.68			
	High	Chain 1	8.41	11.45	13.00	Pass
		Chain 2	8.47			
802.11n40	Low	Chain 1	8.50	11.46	13.00	Pass
		Chain 2	8.41			
	High	Chain 1	8.23	11.30	13.00	Pass
		Chain 2	8.34			

Remark: Power limit = 30dBm - (antenna gain - 6) = 13dBm

The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

5150-5250MHz

30dBi Dish Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	1.42	4.56	6.00	Pass
		Chain 2	1.67			
	Mid	Chain 1	1.28	4.39	6.00	Pass
		Chain 2	1.48			
	High	Chain 1	1.06	4.11	6.00	Pass
		Chain 2	1.14			
802.11n20	Low	Chain 1	1.81	4.64	6.00	Pass
		Chain 2	1.45			
	Mid	Chain 1	1.56	4.45	6.00	Pass
		Chain 2	1.31			
	High	Chain 1	1.12	4.17	6.00	Pass
		Chain 2	1.19			
802.11n40	Low	Chain 1	1.37	4.36	6.00	Pass
		Chain 2	1.32			
	High	Chain 1	1.64	4.49	6.00	Pass
		Chain 2	1.31			

Remark: Power limit = 30dBm - (antenna gain - 6) = 6dBm

$$\text{The Total Average Power (dBm)} = 10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}.$$

5725-5850MHz

3dBi Omni-directional Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	25.21	28.15	30.00	Pass
		Chain 2	25.07			
	Mid	Chain 1	25.52	28.39	30.00	Pass
		Chain 2	25.24			
	High	Chain 1	25.02	27.88	30.00	Pass
		Chain 2	24.72			
802.11n20	Low	Chain 1	25.12	27.90	30.00	Pass
		Chain 2	24.65			
	Mid	Chain 1	24.95	27.54	30.00	Pass
		Chain 2	24.06			
	High	Chain 1	24.47	27.27	30.00	Pass
		Chain 2	24.03			
802.11n40	Low	Chain 1	25.12	28.06	30.00	Pass
		Chain 2	24.98			
	High	Chain 1	25.20	27.97	30.00	Pass
		Chain 2	24.90			

Remark: The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

5725-5850MHz

15dBi Omni-directional Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	16.32	19.34	21.00	Pass
		Chain 2	16.33			
	Mid	Chain 1	16.37	19.31	21.00	Pass
		Chain 2	16.23			
	High	Chain 1	16.39	19.27	21.00	Pass
		Chain 2	16.13			
802.11n20	Low	Chain 1	16.58	19.50	21.00	Pass
		Chain 2	16.40			
	Mid	Chain 1	16.38	19.29	21.00	Pass
		Chain 2	16.19			
	High	Chain 1	16.30	19.24	21.00	Pass
		Chain 2	16.15			
802.11n40	Low	Chain 1	16.34	19.21	21.00	Pass
		Chain 2	16.05			
	High	Chain 1	16.31	19.27	21.00	Pass
		Chain 2	16.21			

Remark: Power limit = 30dBm - (antenna gain - 6) = 21dBm

The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

5725-5850MHz

19dBi Sector Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	12.48	15.40	17.00	Pass
		Chain 2	12.30			
	Mid	Chain 1	12.41	15.27	17.00	Pass
		Chain 2	12.10			
	High	Chain 1	12.23	15.27	17.00	Pass
		Chain 2	12.29			
802.11n20	Low	Chain 1	12.29	15.39	17.00	Pass
		Chain 2	12.46			
	Mid	Chain 1	12.29	15.25	17.00	Pass
		Chain 2	12.18			
	High	Chain 1	12.42	15.33	17.00	Pass
		Chain 2	12.22			
802.11n40	Low	Chain 1	12.32	15.27	17.00	Pass
		Chain 2	12.19			
	High	Chain 1	12.21	15.19	17.00	Pass
		Chain 2	12.14			

Remark: Power limit = 30dBm - (antenna gain - 6) = 17dBm

The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

5725-5850MHz

23dBi Panel Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	8.38	11.24	13.00	Pass
		Chain 2	8.11			
	Mid	Chain 1	8.58	11.52	13.00	Pass
		Chain 2	8.15			
	High	Chain 1	8.32	11.28	13.00	Pass
		Chain 2	8.21			
802.11n20	Low	Chain 1	8.52	11.51	13.00	Pass
		Chain 2	8.48			
	Mid	Chain 1	8.47	11.45	13.00	Pass
		Chain 2	8.41			
	High	Chain 1	8.22	11.18	13.00	Pass
		Chain 2	8.12			
802.11n40	Low	Chain 1	8.46	11.46	13.00	Pass
		Chain 2	8.43			
	High	Chain 1	8.23	11.21	13.00	Pass
		Chain 2	8.18			

Remark: Power limit = 30dBm - (antenna gain - 6) = 13dBm

The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

5725-5850MHz

30dBi Dish Antenna

Mode	Test CH	Ant. Port	Average power (dBm)	Total Average power (dBm)	Limit (dBm)	Result
802.11a	Low	Chain 1	1.76	4.67	6.00	Pass
		Chain 2	1.56			
	Mid	Chain 1	1.47	4.27	6.00	Pass
		Chain 2	1.04			
	High	Chain 1	1.27	4.35	6.00	Pass
		Chain 2	1.41			
802.11n20	Low	Chain 1	1.41	4.33	6.00	Pass
		Chain 2	1.22			
	Mid	Chain 1	1.12	4.11	6.00	Pass
		Chain 2	1.07			
	High	Chain 1	1.46	4.46	6.00	Pass
		Chain 2	1.43			
802.11n40	Low	Chain 1	1.95	4.52	6.00	Pass
		Chain 2	1.02			
	High	Chain 1	1.71	4.49	6.00	Pass
		Chain 2	1.24			

Remark: Power limit = 30dBm - (antenna gain - 6) = 6dBm

The Total Average Power (dBm) = $10 \cdot \log\{10^{(\text{Chain 1 Average Power} / 10)} + 10^{(\text{Chain 2 Average Power} / 10)}\}$.

7. BAND EDGES MEASUREMENT

7.1 Test Limit

For 15.205 requirement:

Radiated emissions which fall in the restricted bands, as defined in Section 15.205(a) of FCC part 15, must also comply with the radiated emission limits specified in Section 15.209(a).

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	(²)

For 15.407(b) requirement:

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

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

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

For transmitters operating in the 5.725-5.85 GHz band: All emissions within the frequency range from the band edge to 10 MHz above or below the band edge shall not exceed an e.i.r.p. of -17 dBm/MHz; for frequencies 10 MHz or greater above or below the band edge, emissions shall not exceed an e.i.r.p. of -27 dBm/MHz.

Operating Frequency Band (MHz)	EIRP Limit (dBm/MHz)	Equivalent Field Strength at 3m (dBuV/m)
5150 - 5350	-27	68.2
5470 - 5725	-27	68.2
5725 - 5850	-17	78.2
	-27	68.2

Note: Refer to KDB 789033 D02v01 G2)c), as specified in § 15.407(b), emissions above 1000 MHz that are outside of the restricted bands are subject to a maximum emission limit of -27 dBm/MHz (or -17 dBm/MHz as specified in § 15.407(b)(4)). However, an out-of-band emission that complies with both the peak and average limits of § 15.209 is not required to satisfy the -27 dBm/MHz or -17 dBm/MHz maximum emission limit.

All out of band emissions appearing in a restricted band as specified in Section 15.205 of the Title 47 CFR must not exceed the limits shown in Table per Section 15.209.

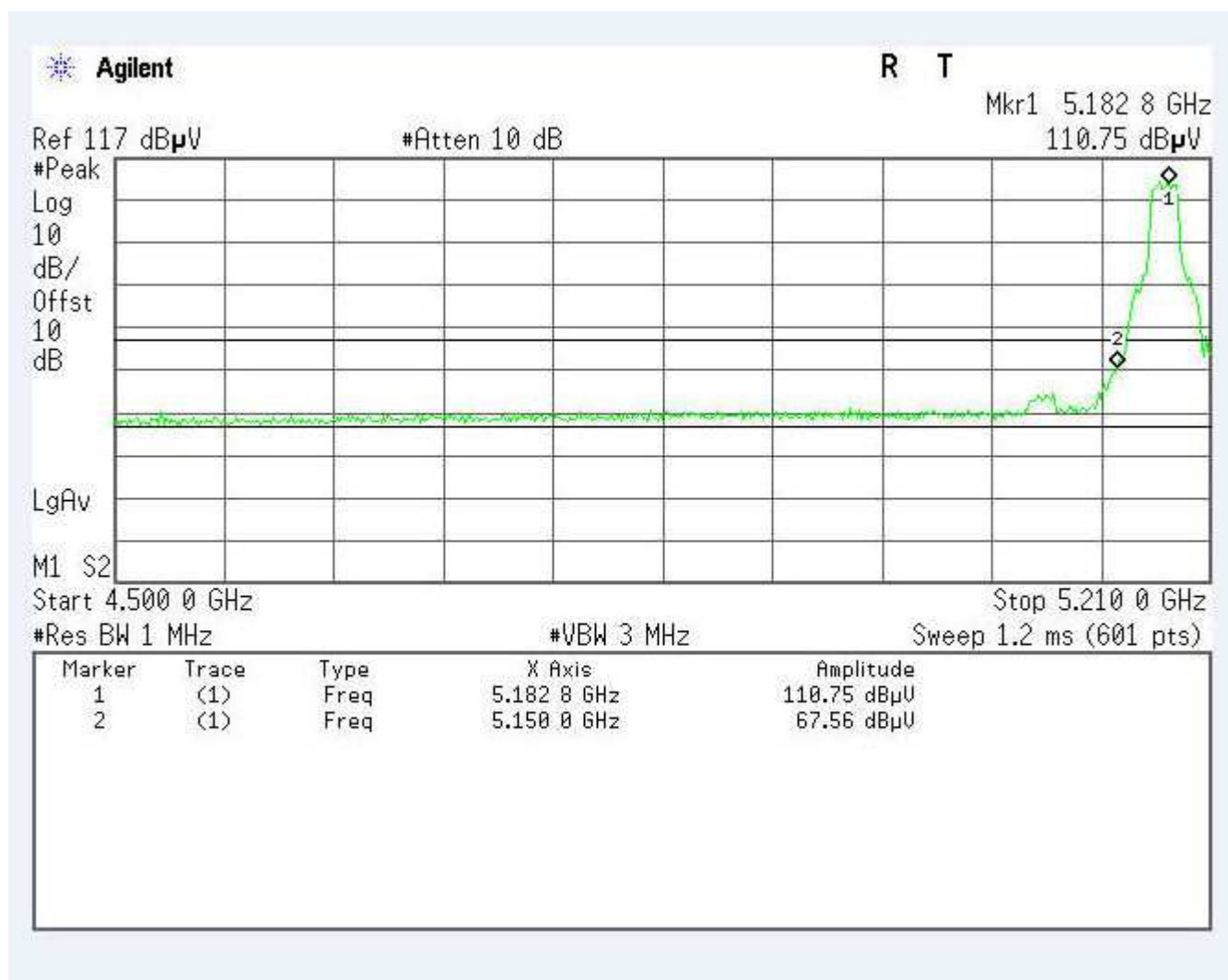
FCC Part 15 Subpart C Paragraph 15.209		
Frequency [MHz]	Field Strength [V/m]	Measured Distance [Meters]
0.009 – 0.490	2400/F (kHz)	300
0.490 – 1.705	24000/F (kHz)	30
1.705 - 30	30	30
30 - 88	100	3
88 - 216	150	3
216 - 960	200	3
Above 960	500	3

Test Result of Radiated Restricted Band Edge

Band Edges (IEEE 802.11a mode / 5180 MHz)

Detector mode: Peak

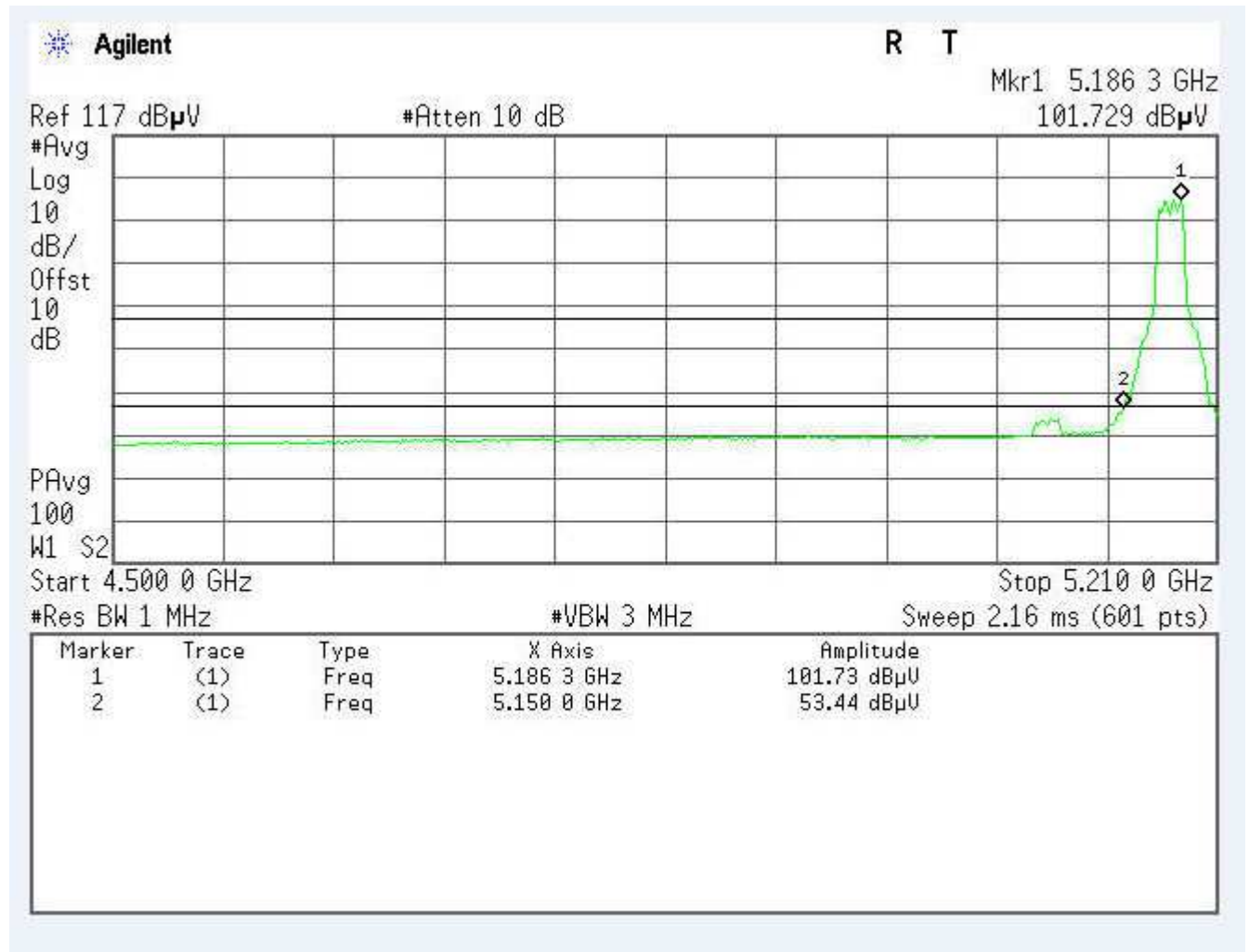
Polarity: Horizontal



Band Edges (IEEE 802.11a mode / 5180 MHz)

Detector mode: Average

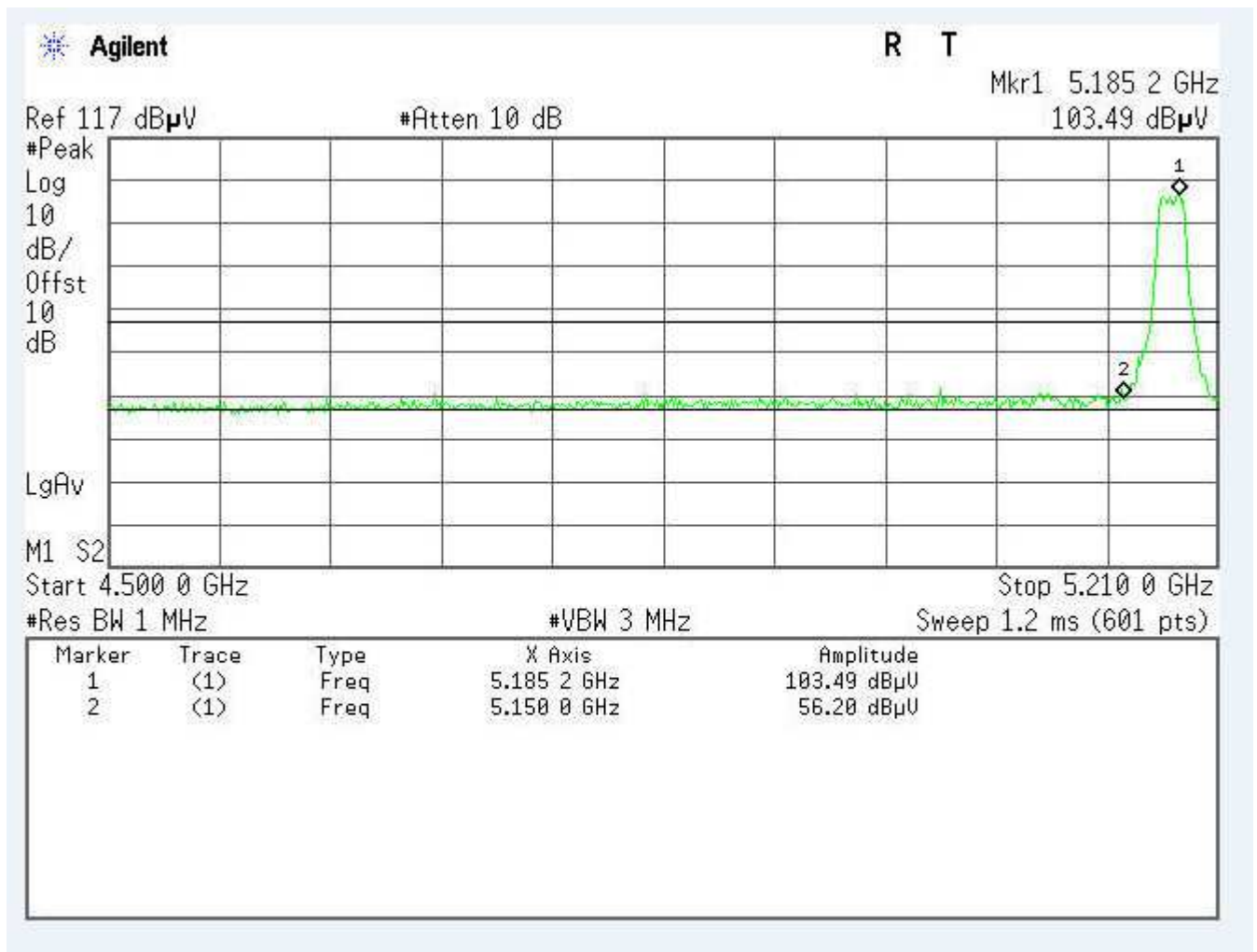
Polarity: Horizontal



Band Edges (IEEE 802.11a mode / 5180 MHz)

Detector mode: Peak

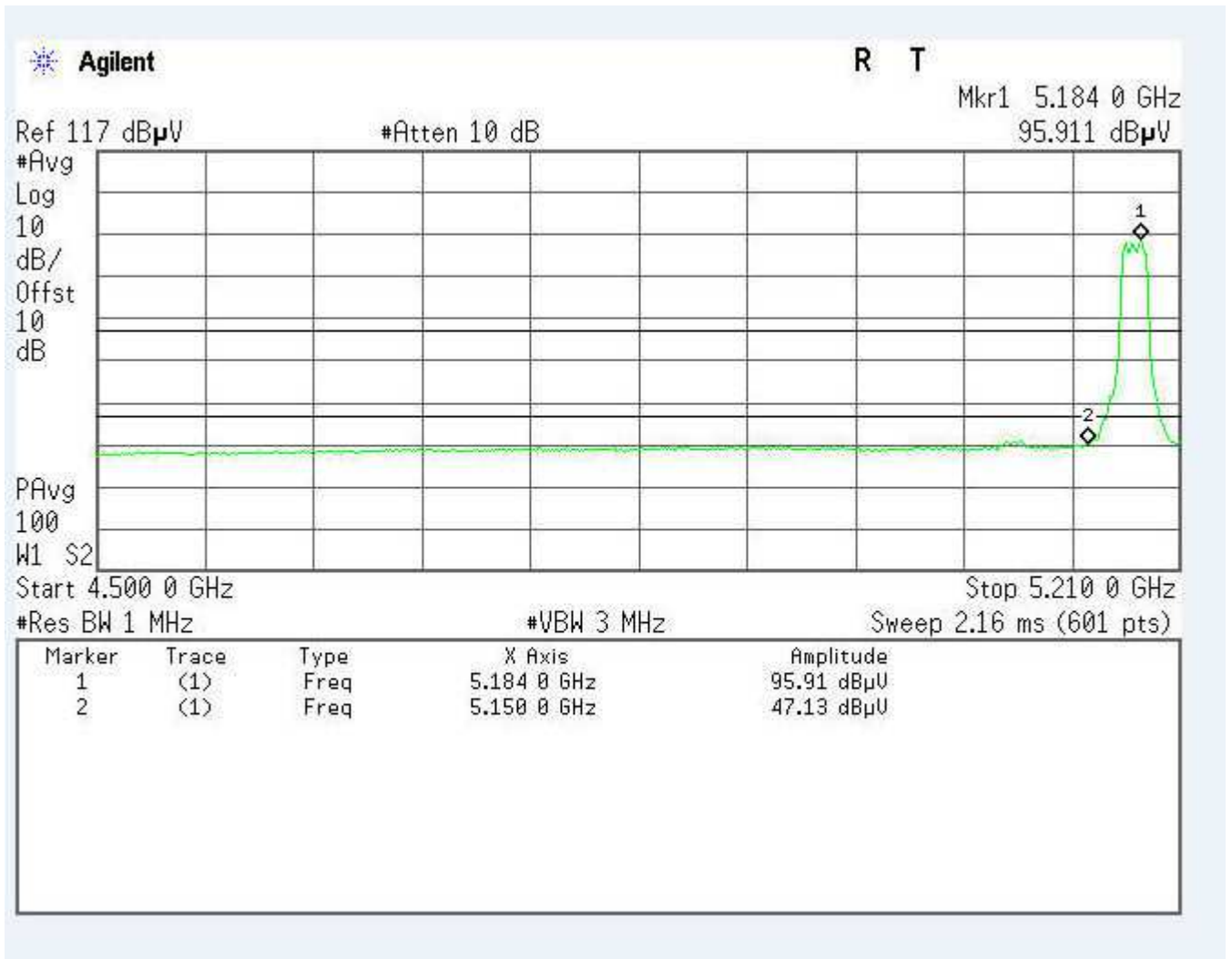
Polarity: Vertical



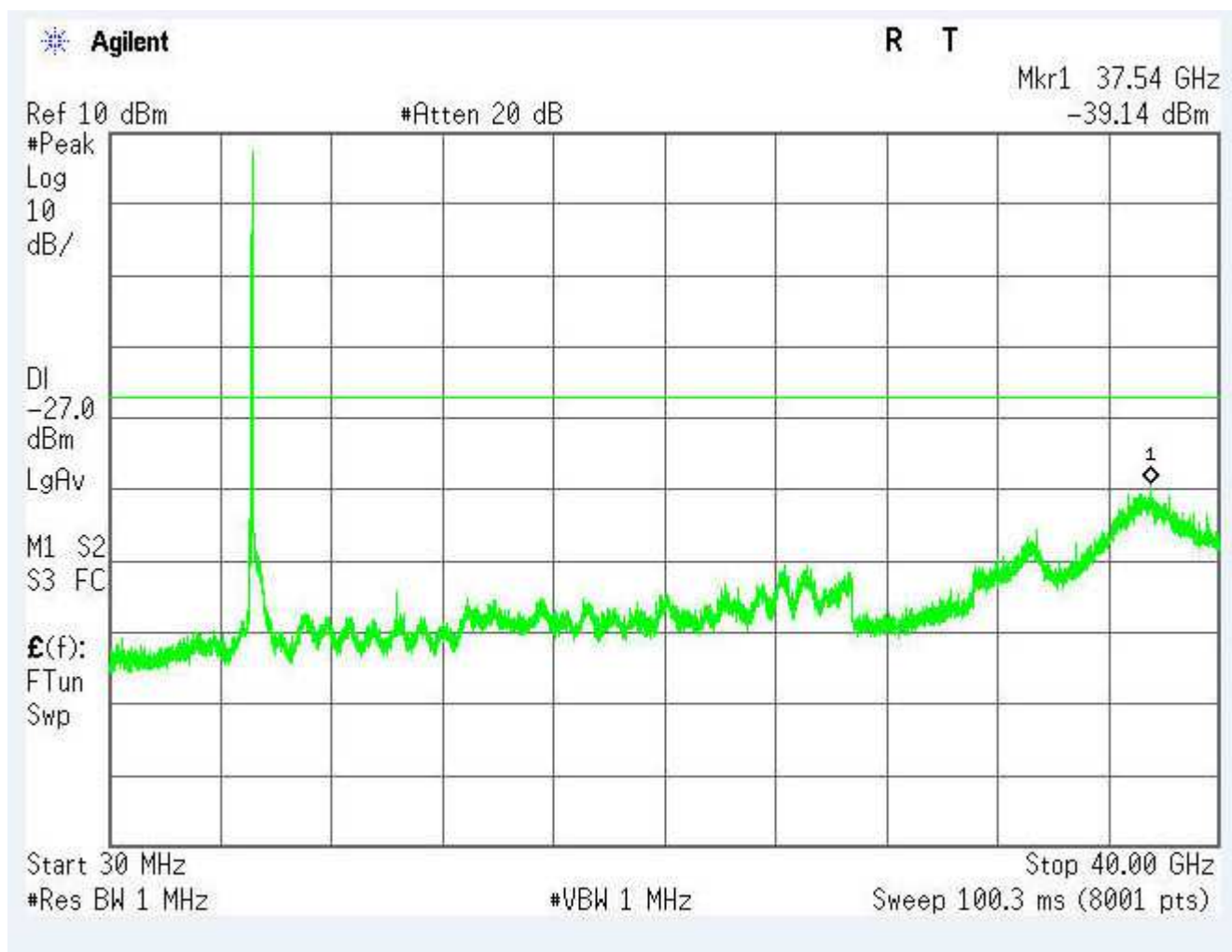
Band Edges (IEEE 802.11a mode / 5180 MHz)

Detector mode: Average

Polarity: Vertical



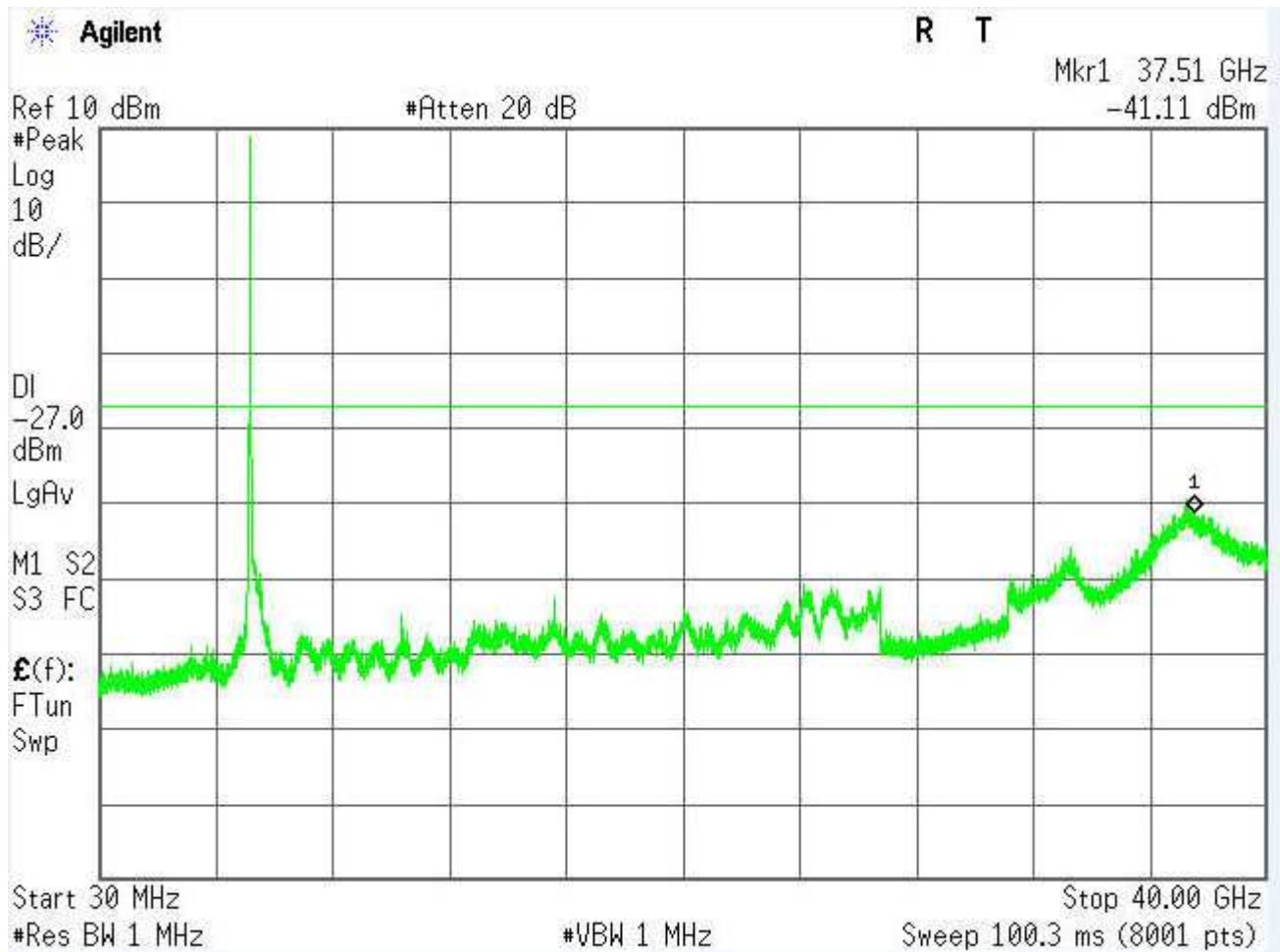
Test Result of Conduction Restricted Band Edge
Chain 1
Band Edges (IEEE 802.11a mode / 5180 MHz)
Detector mode: Peak



Chain 1

Band Edges (IEEE 802.11a mode / 5200 MHz)

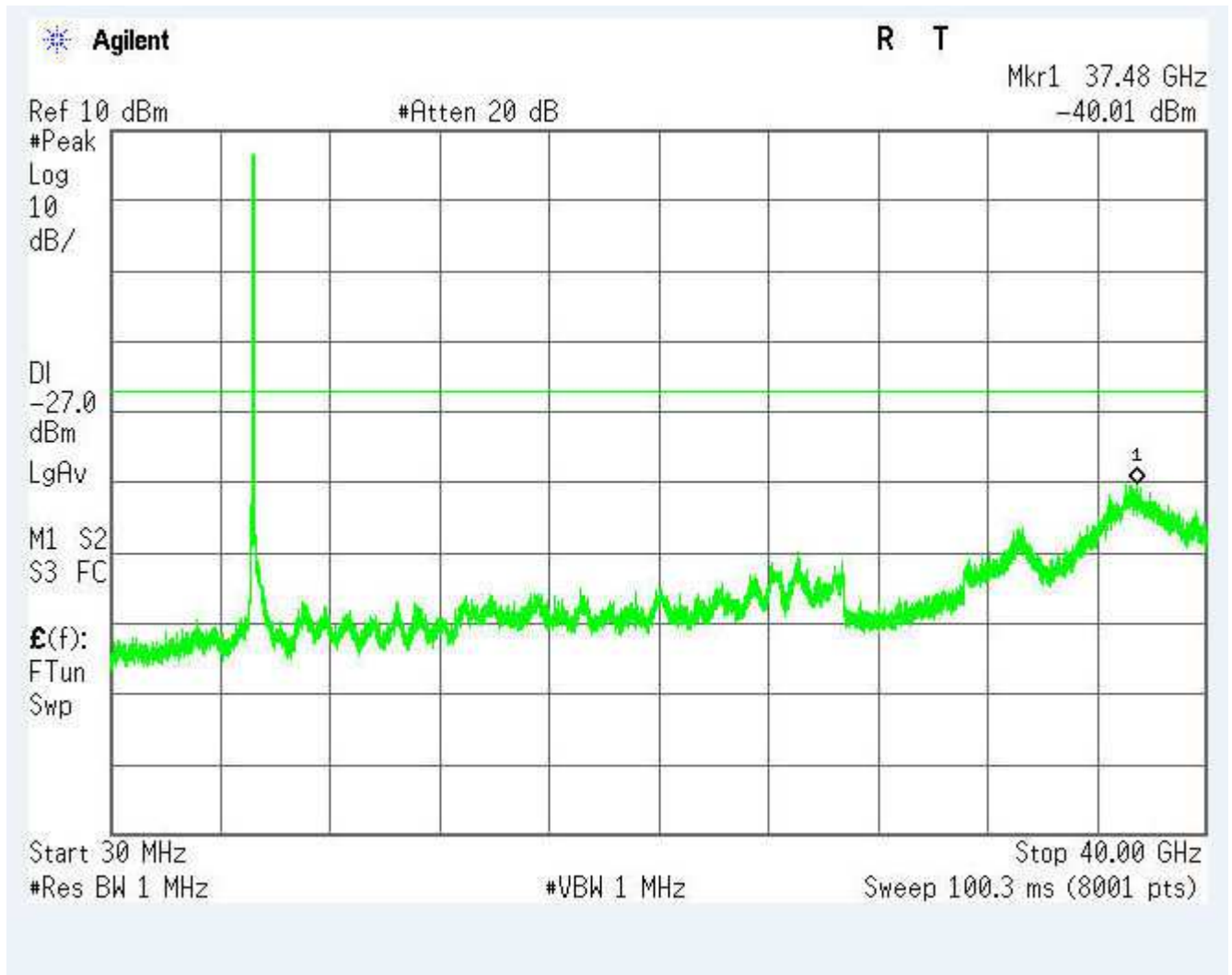
Detector mode: Peak



Chain 1

Band Edges (IEEE 802.11a mode / 5240 MHz)

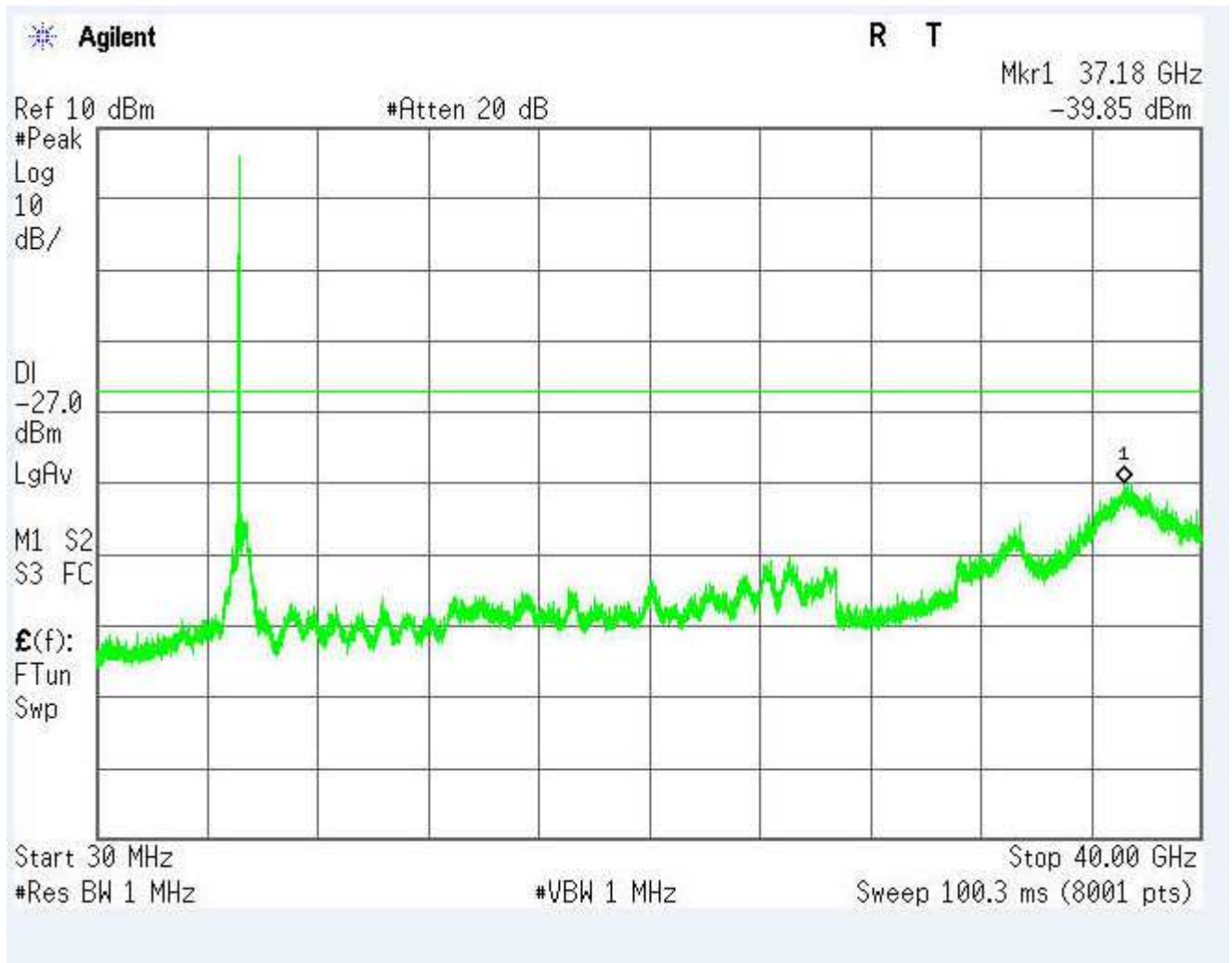
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11a mode / 5180 MHz)

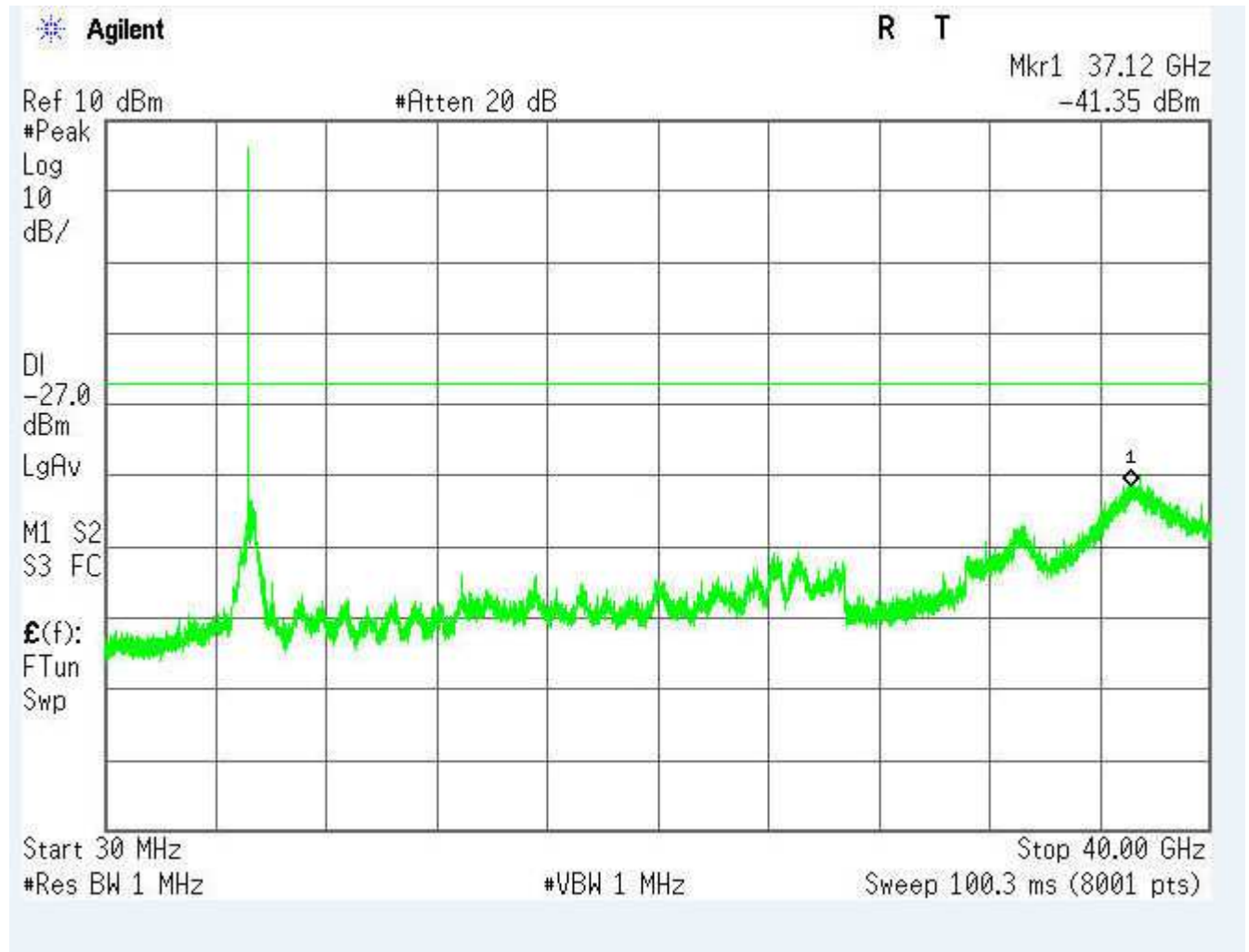
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11a mode / 5200 MHz)

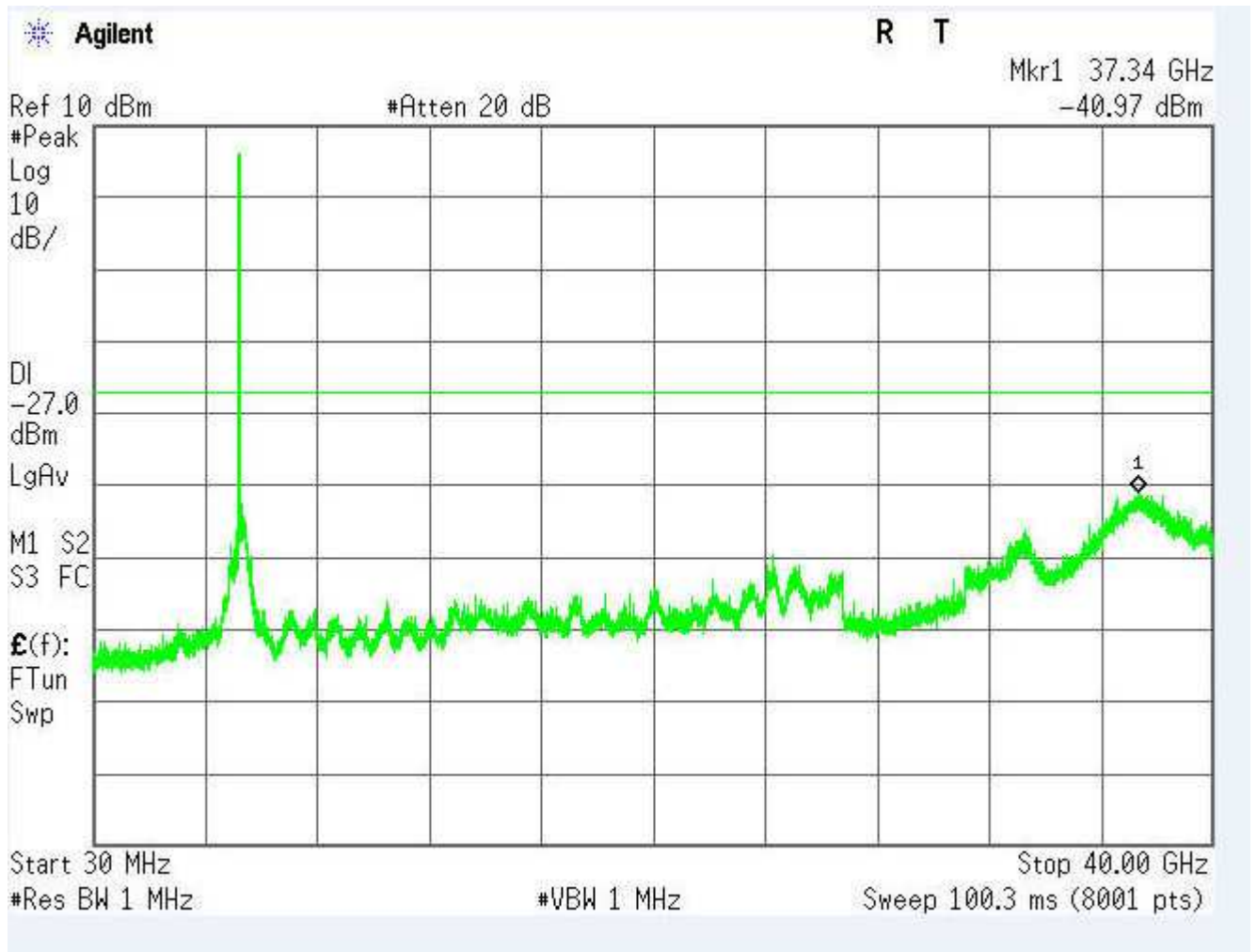
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11a mode / 5240 MHz)

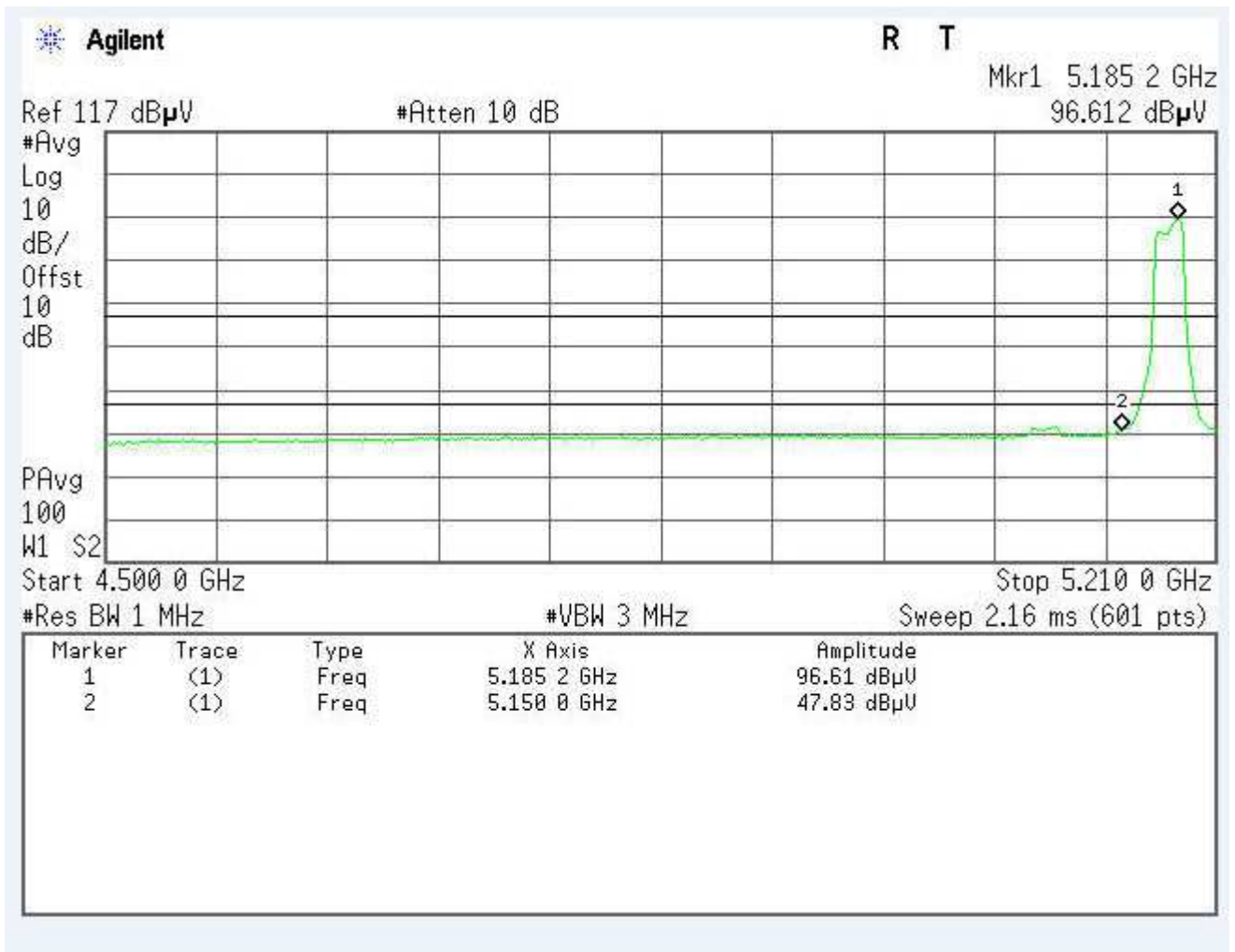
Detector mode: Peak



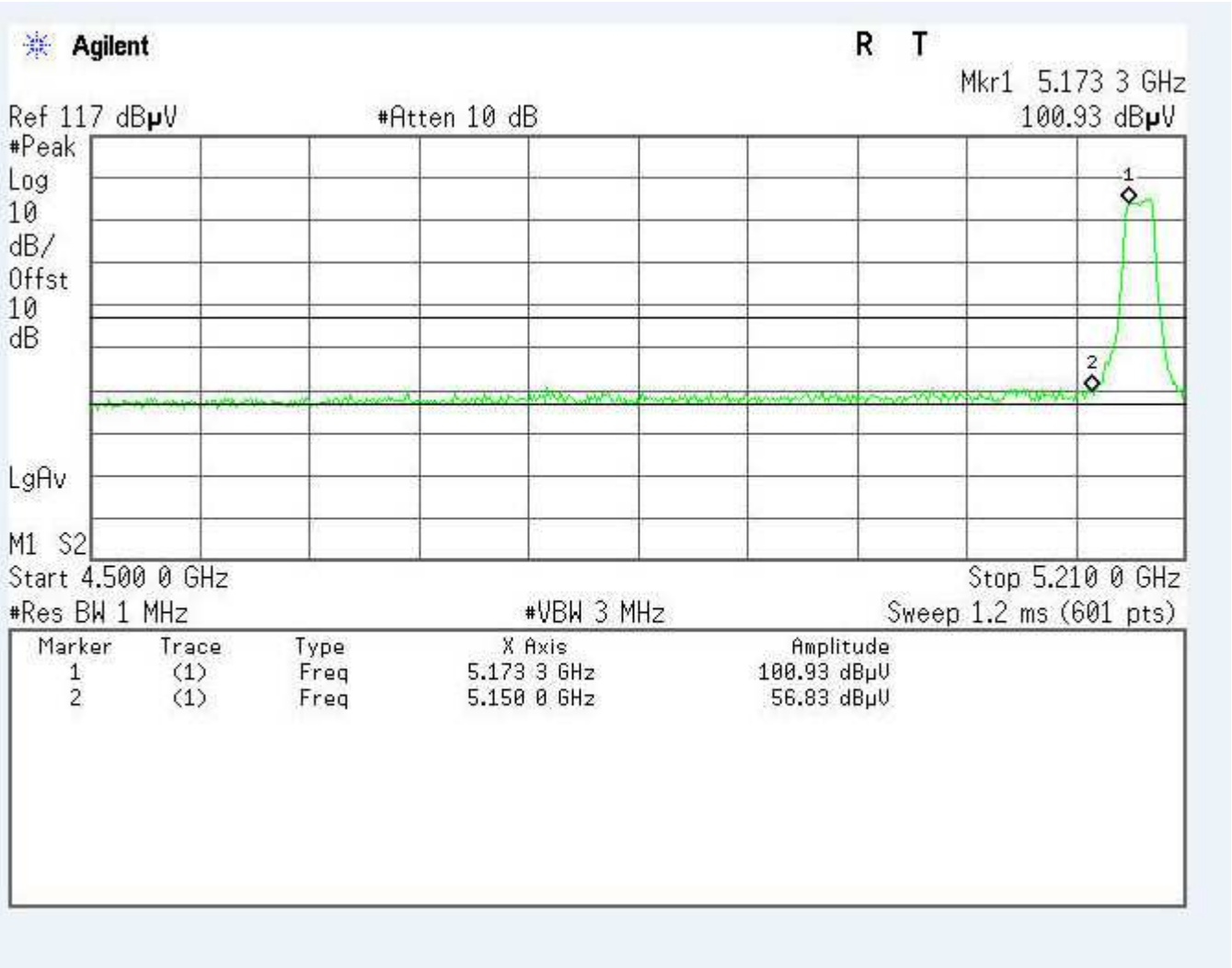
Band Edges (IEEE 802.11 HT n20 mode / 5180 MHz)

Detector mode: Average

Polarity: Horizontal



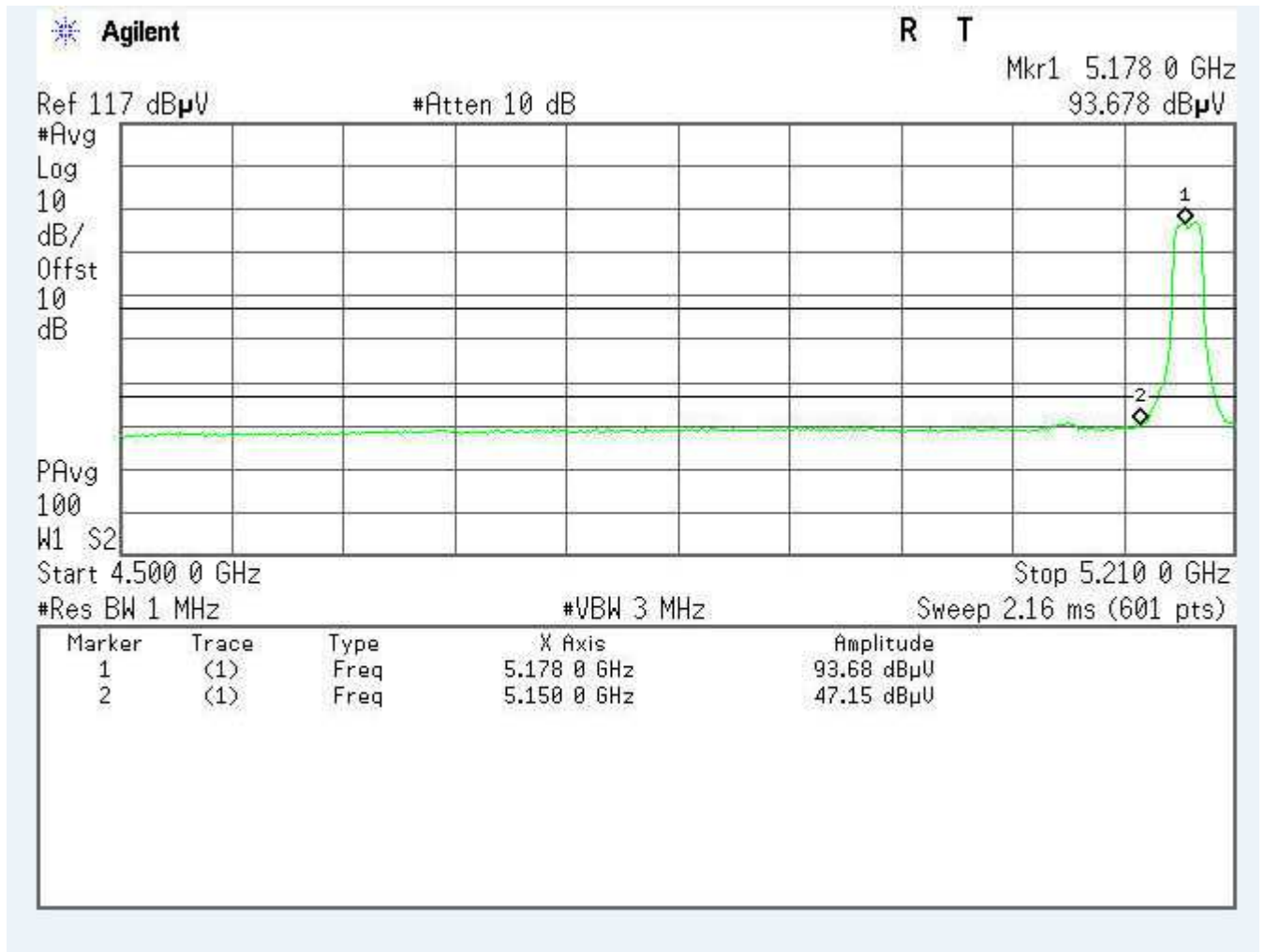
Band Edges (IEEE 802.11 HT n20 mode / 5180 MHz)
Detector mode: Peak **Polarity: Vertical**



Band Edges (IEEE 802.11 HT n20 mode / 5180 MHz)

Detector mode: Average

Polarity: Vertical

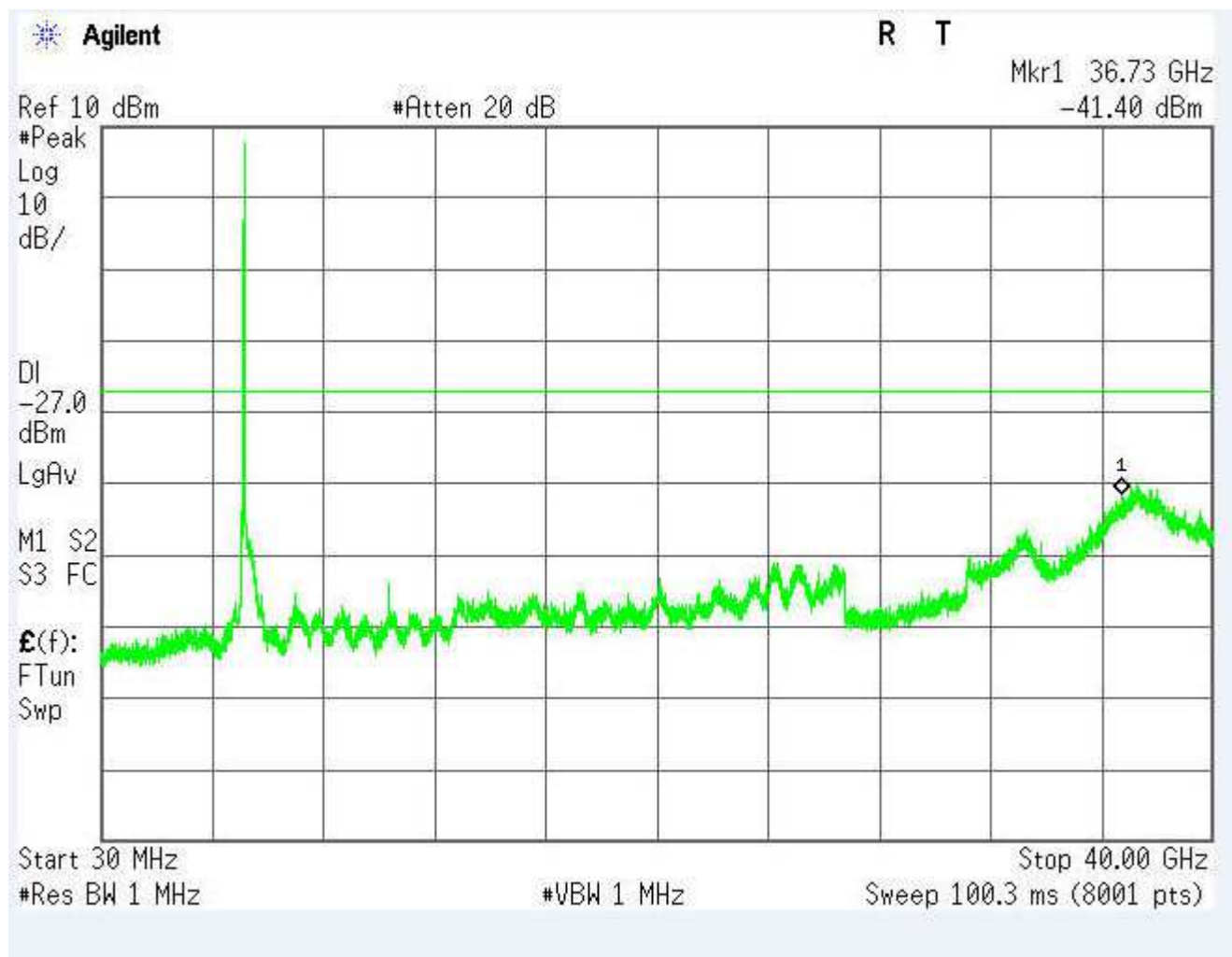


Test Result of Conduction Restricted Band Edge

Chain 1

Band Edges (IEEE 802.11 HT n20 mode / 5180 MHz)

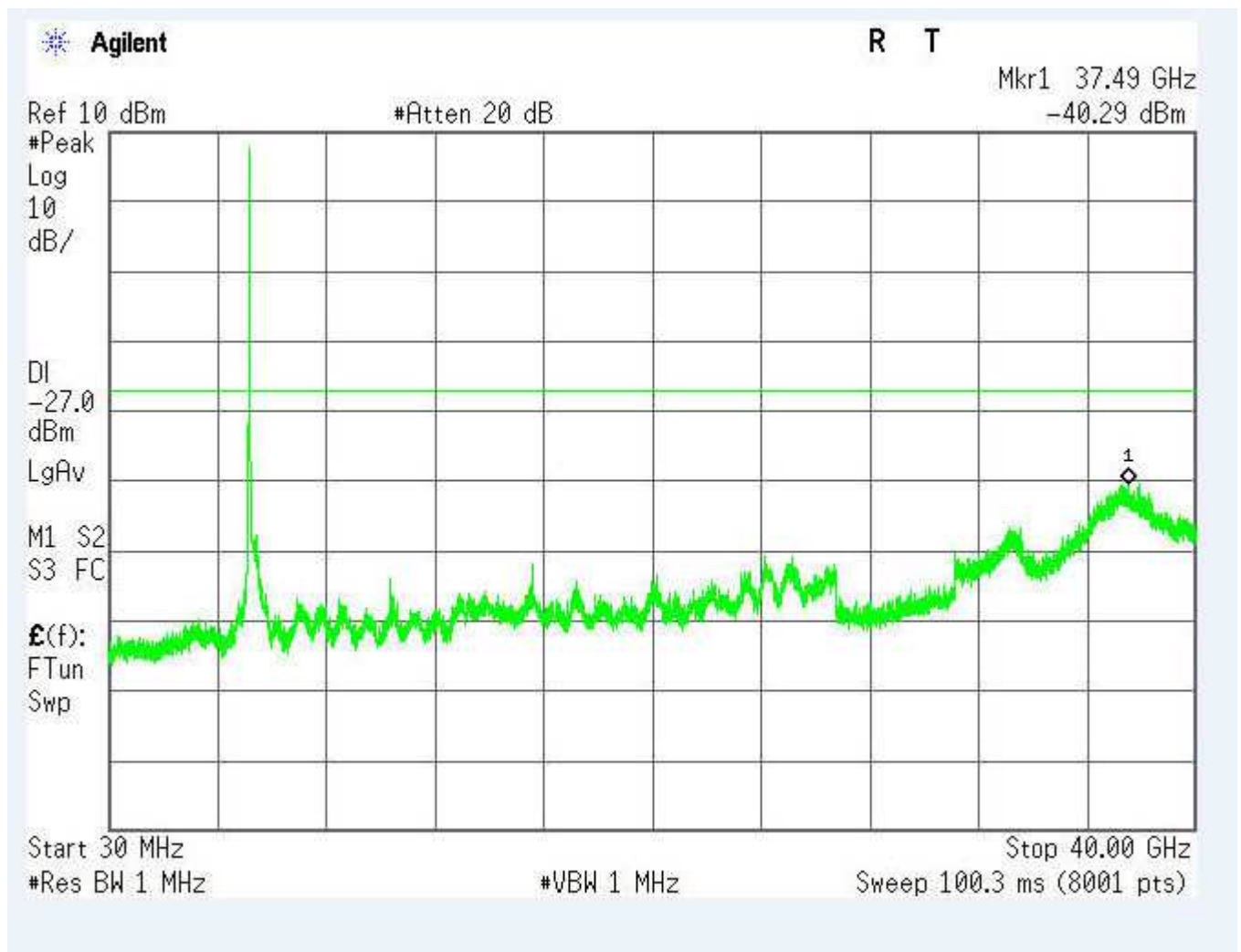
Detector mode: Peak



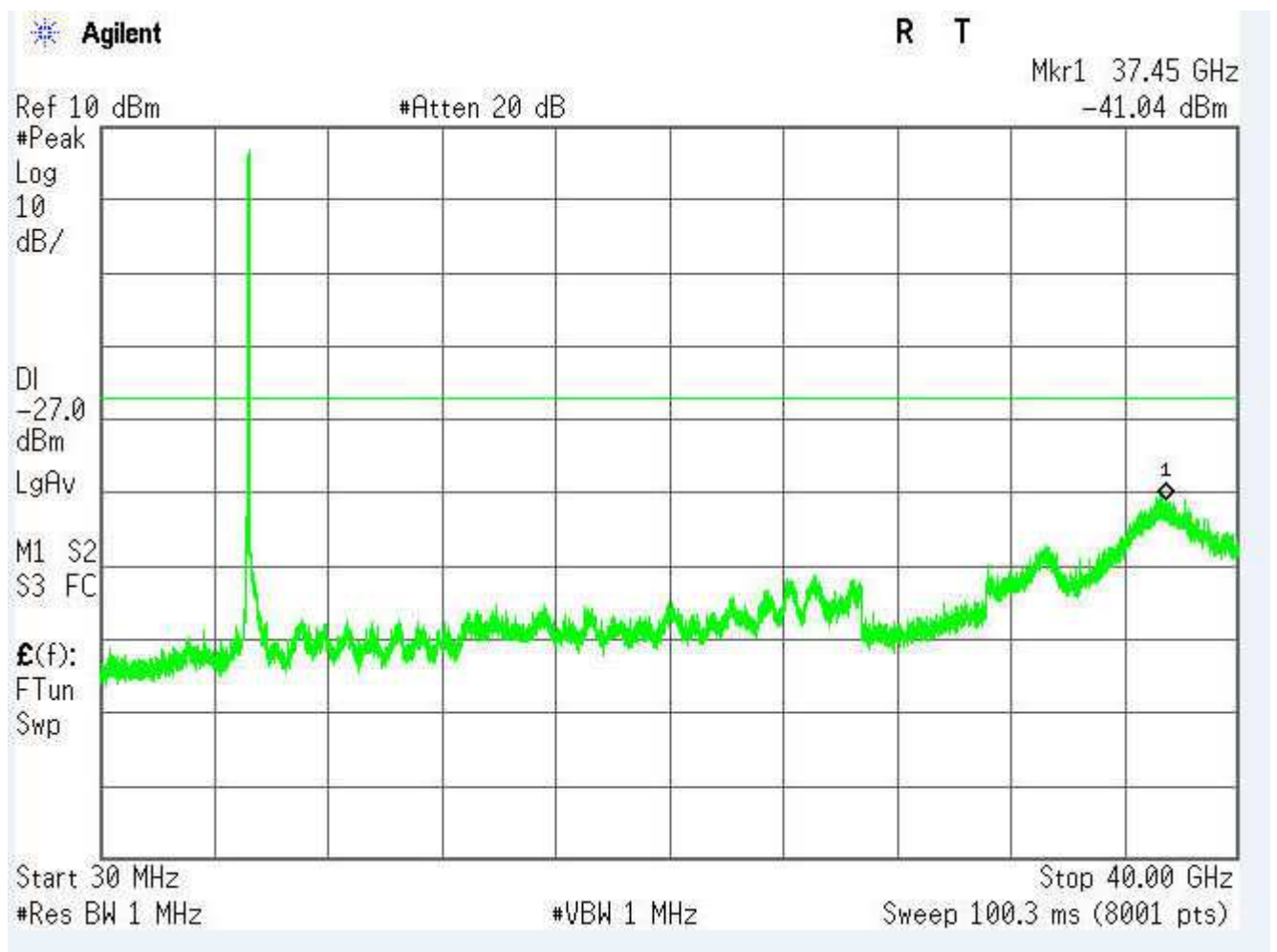
Chain 1

Band Edges (IEEE 802.11 HT n20 mode / 5200 MHz)

Detector mode: Peak



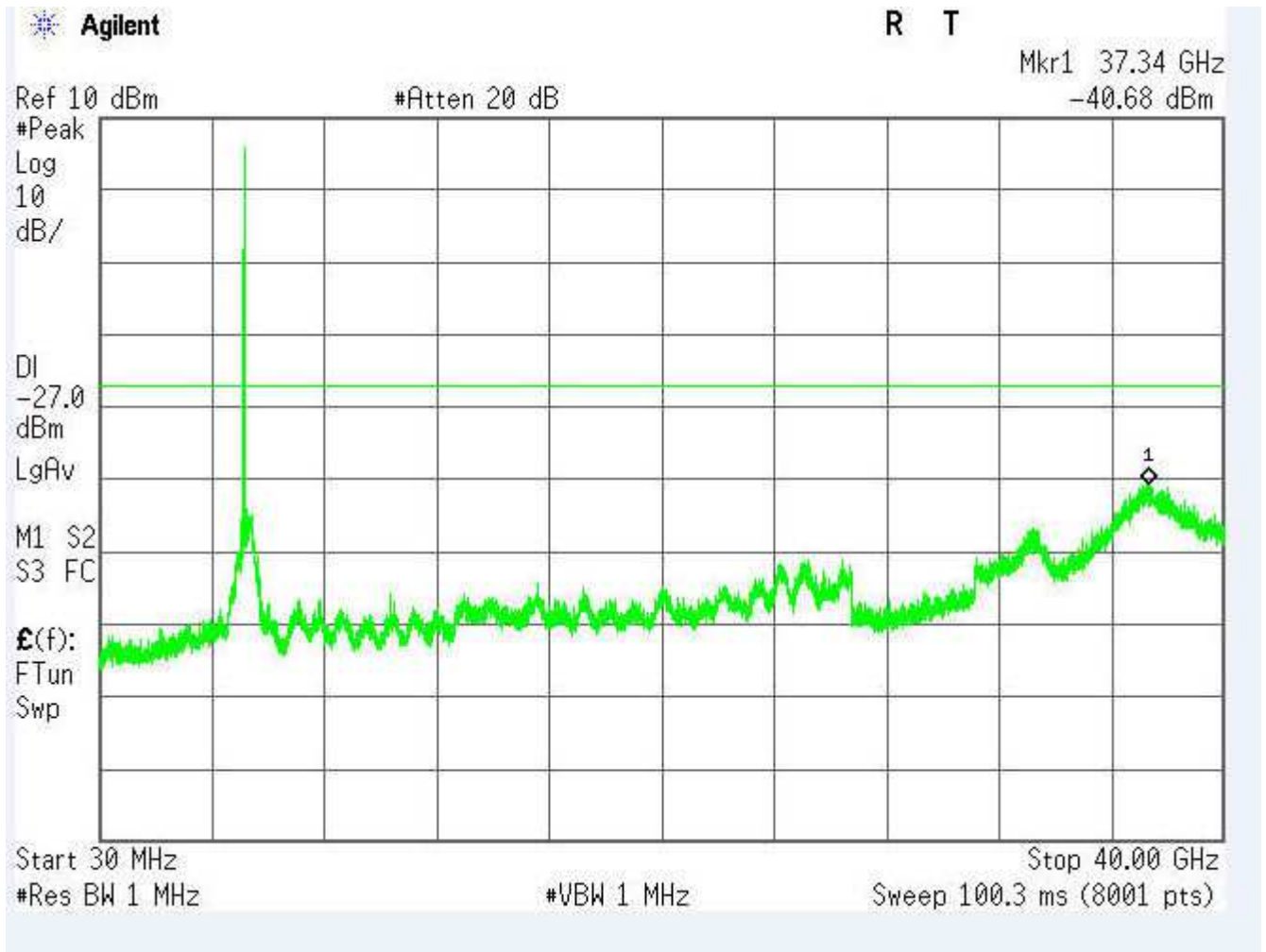
Chain 1
Band Edges (IEEE 802.11 HT n20 mode / 5240 MHz)
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11 HT n20 mode / 5180 MHz)

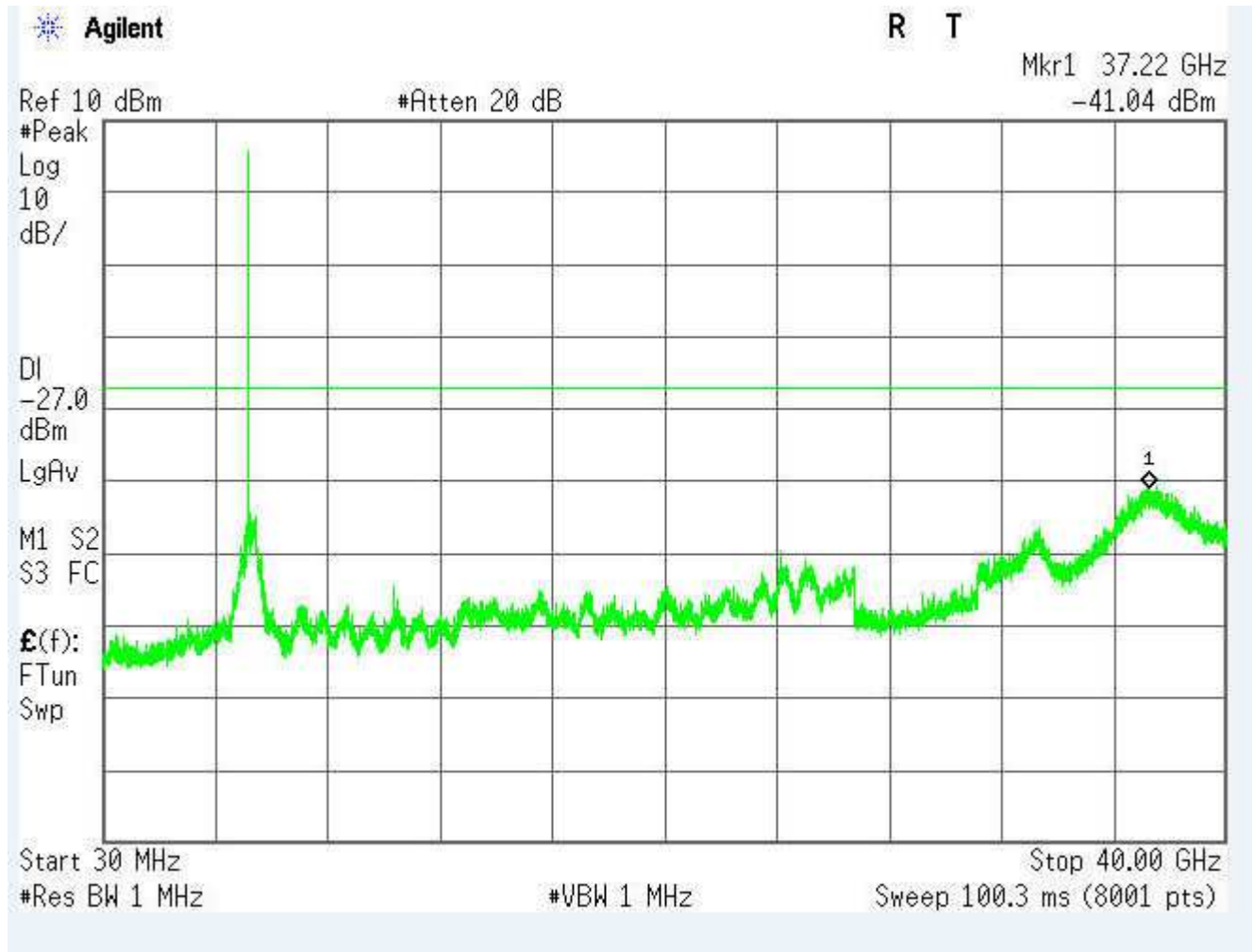
Detector mode: Peak



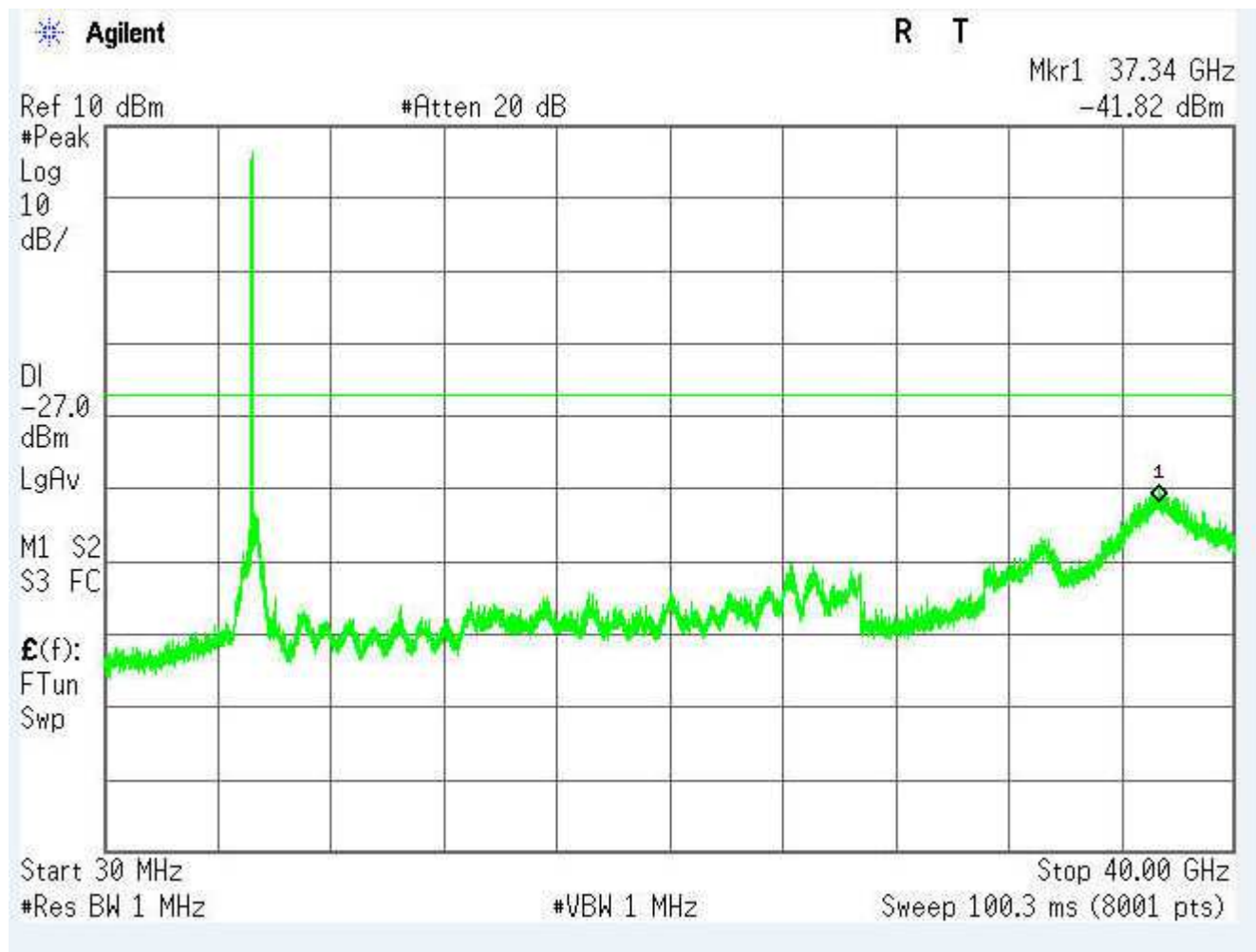
Chain 2

Band Edges (IEEE 802.11 HT n20 mode / 5200 MHz)

Detector mode: Peak



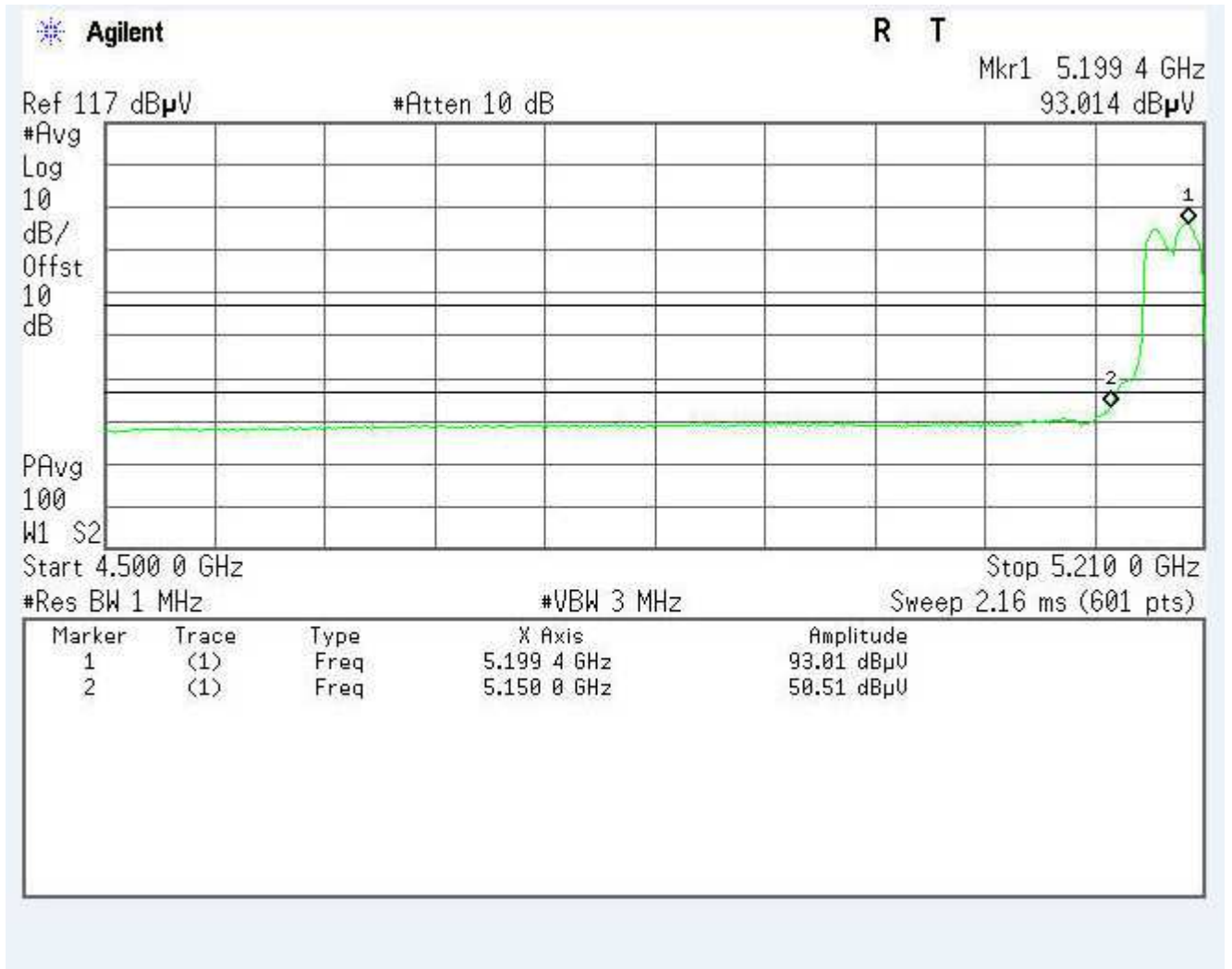
Chain 2
Band Edges (IEEE 802.11 HT n20 mode / 5240 MHz)
Detector mode: Peak



Band Edges (IEEE 802.11 HT n40 mode / 5190 MHz)

Detector mode: Average

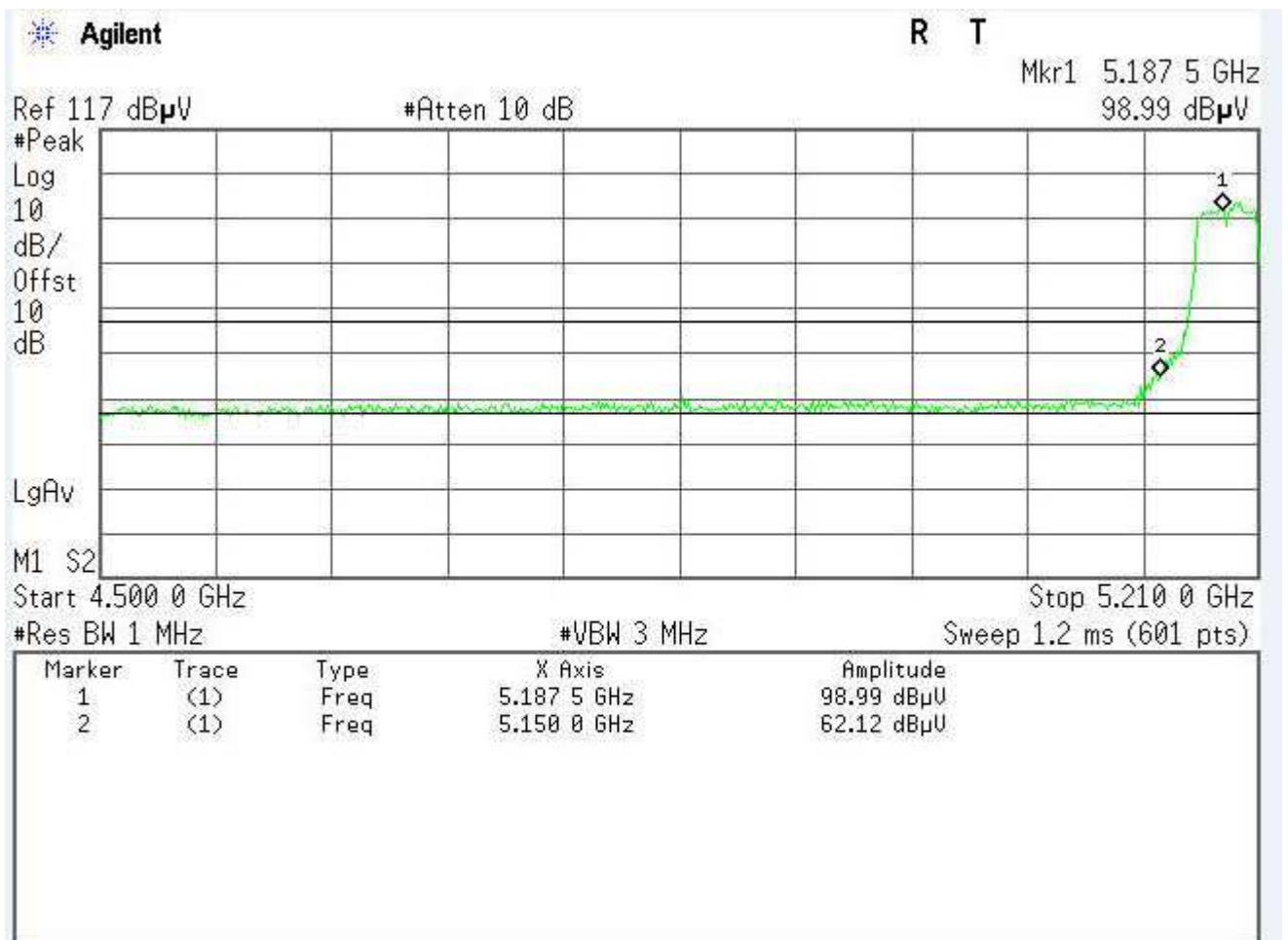
Polarity: Horizontal



Band Edges (IEEE 802.11 HT n40 mode / 5190 MHz)

Detector mode: Peak

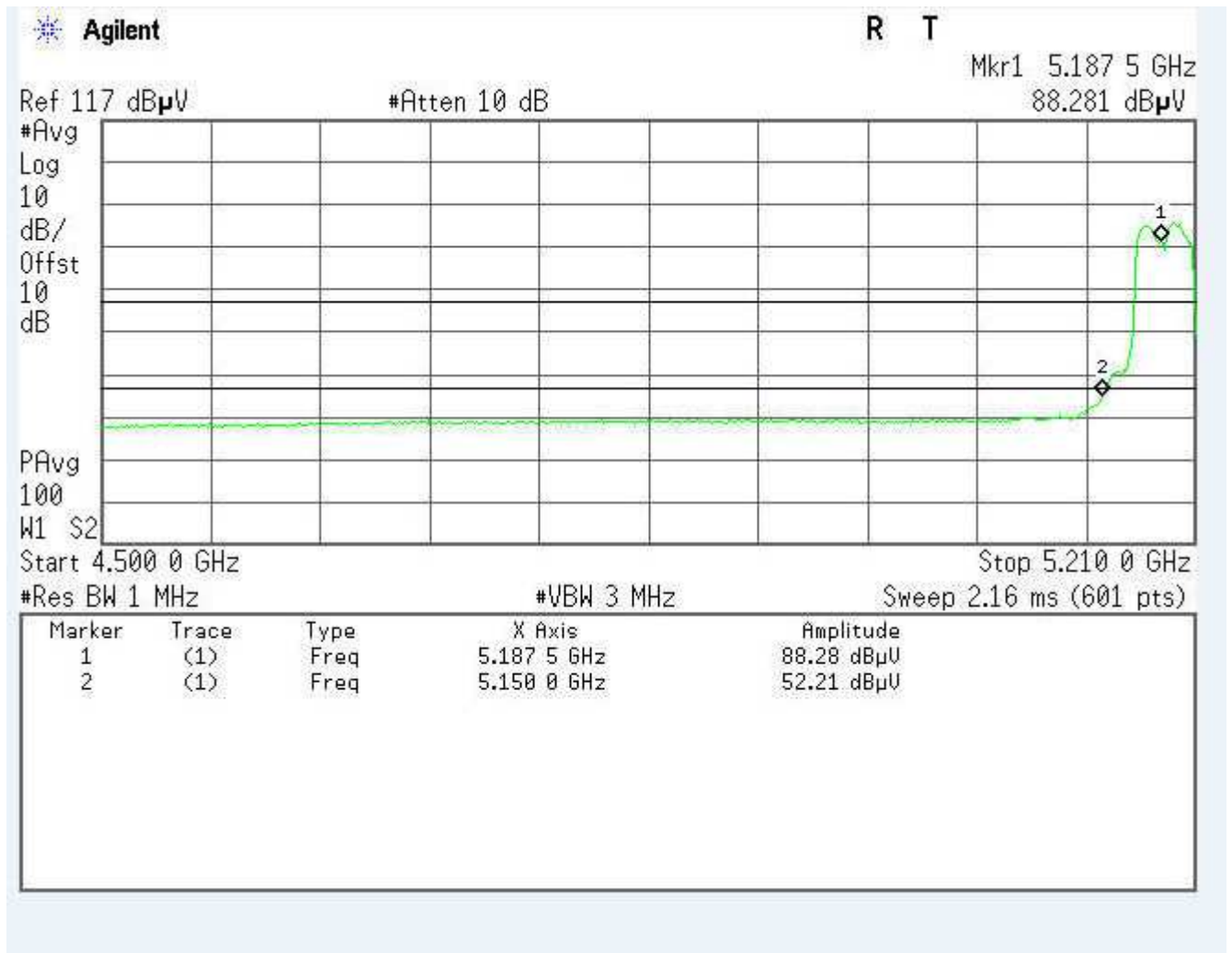
Polarity: Vertical



Band Edges (IEEE 802.11 HT n40 mode / 5190 MHz)

Detector mode: Average

Polarity: Vertical

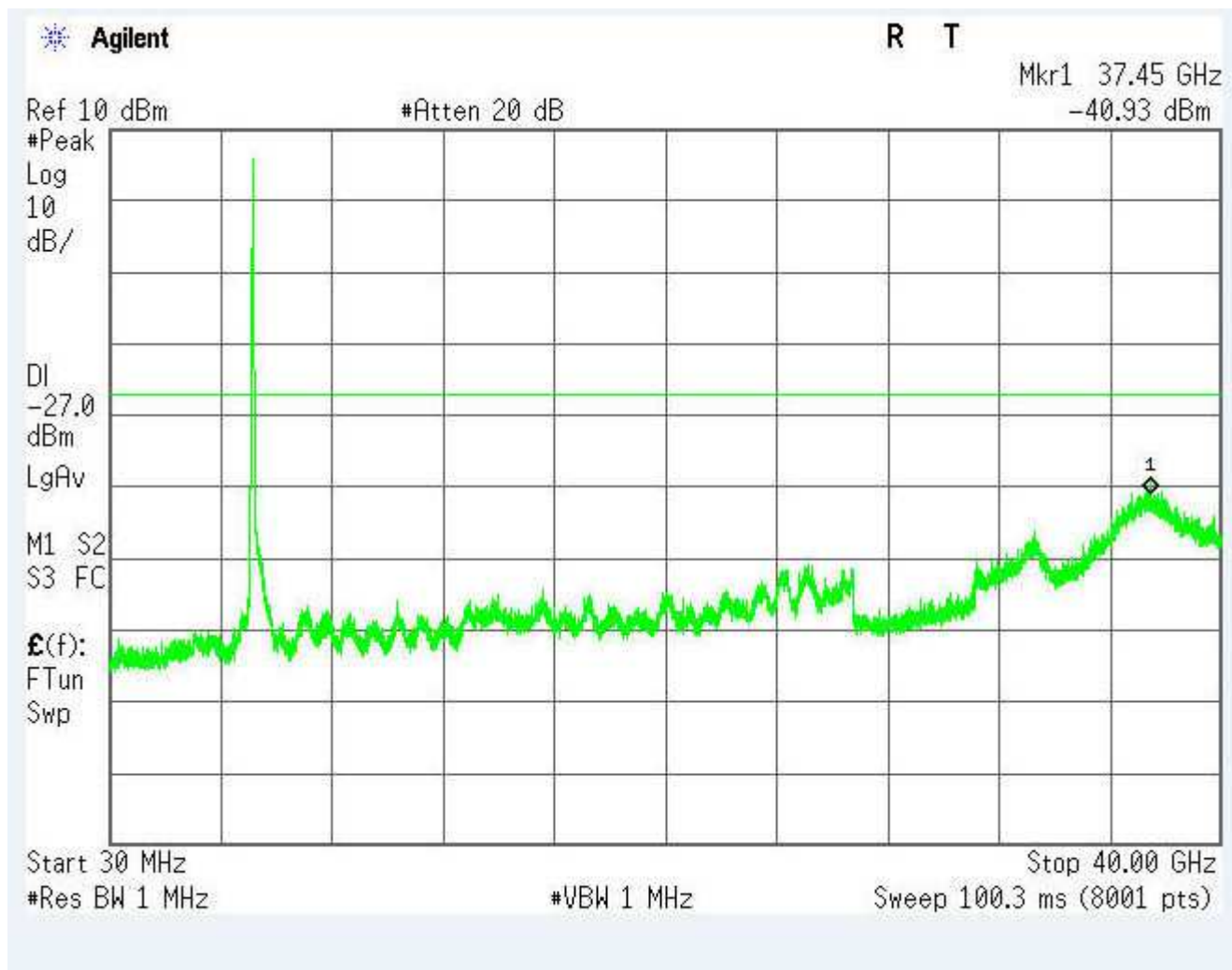


Test Result of Conduction Restricted Band Edge

Chain 1

Band Edges (IEEE 802.11 HT n40 mode / 5190 MHz)

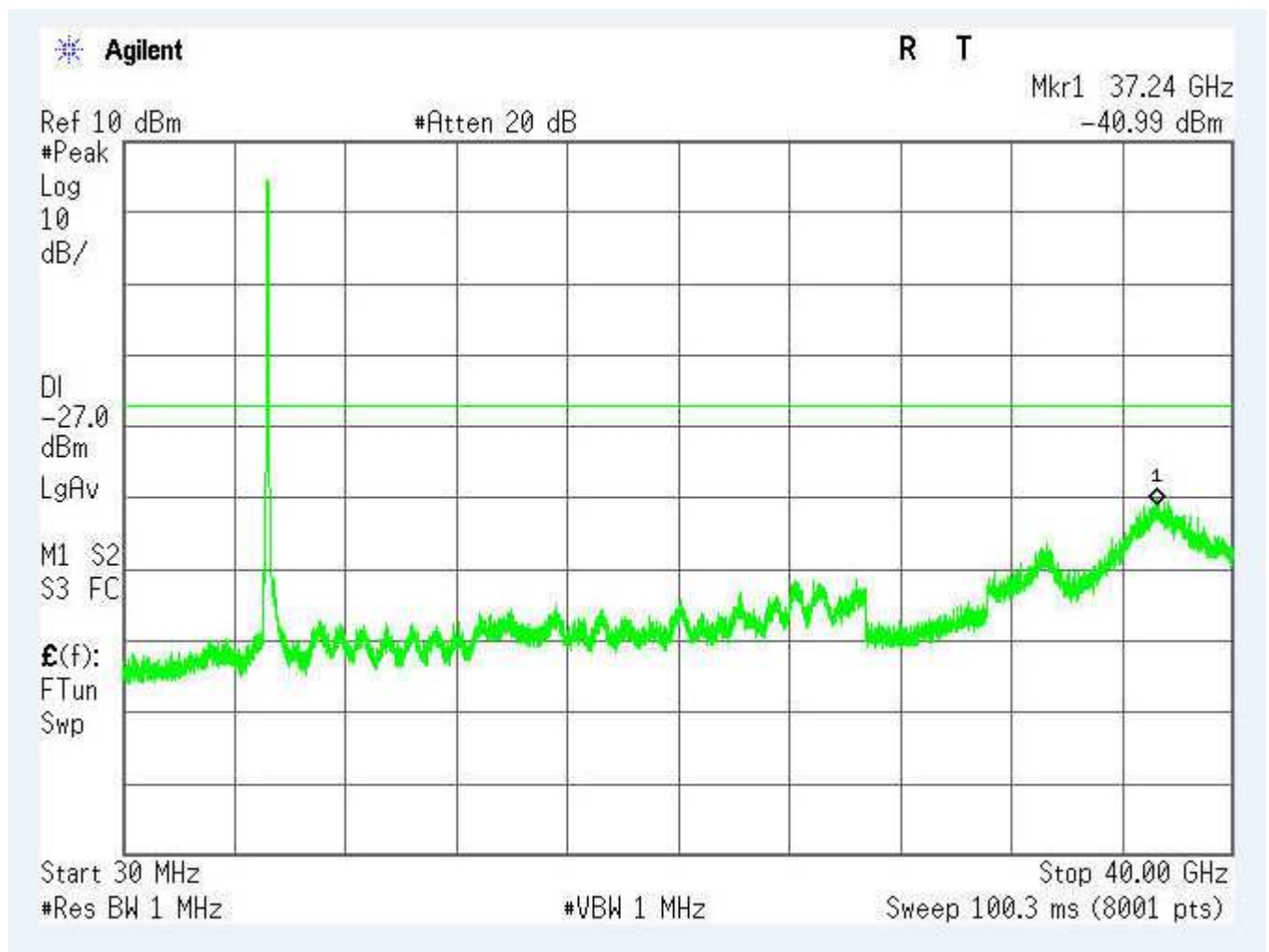
Detector mode: Peak



Chain 1

Band Edges (IEEE 802.11 HT n40 mode / 5230 MHz)

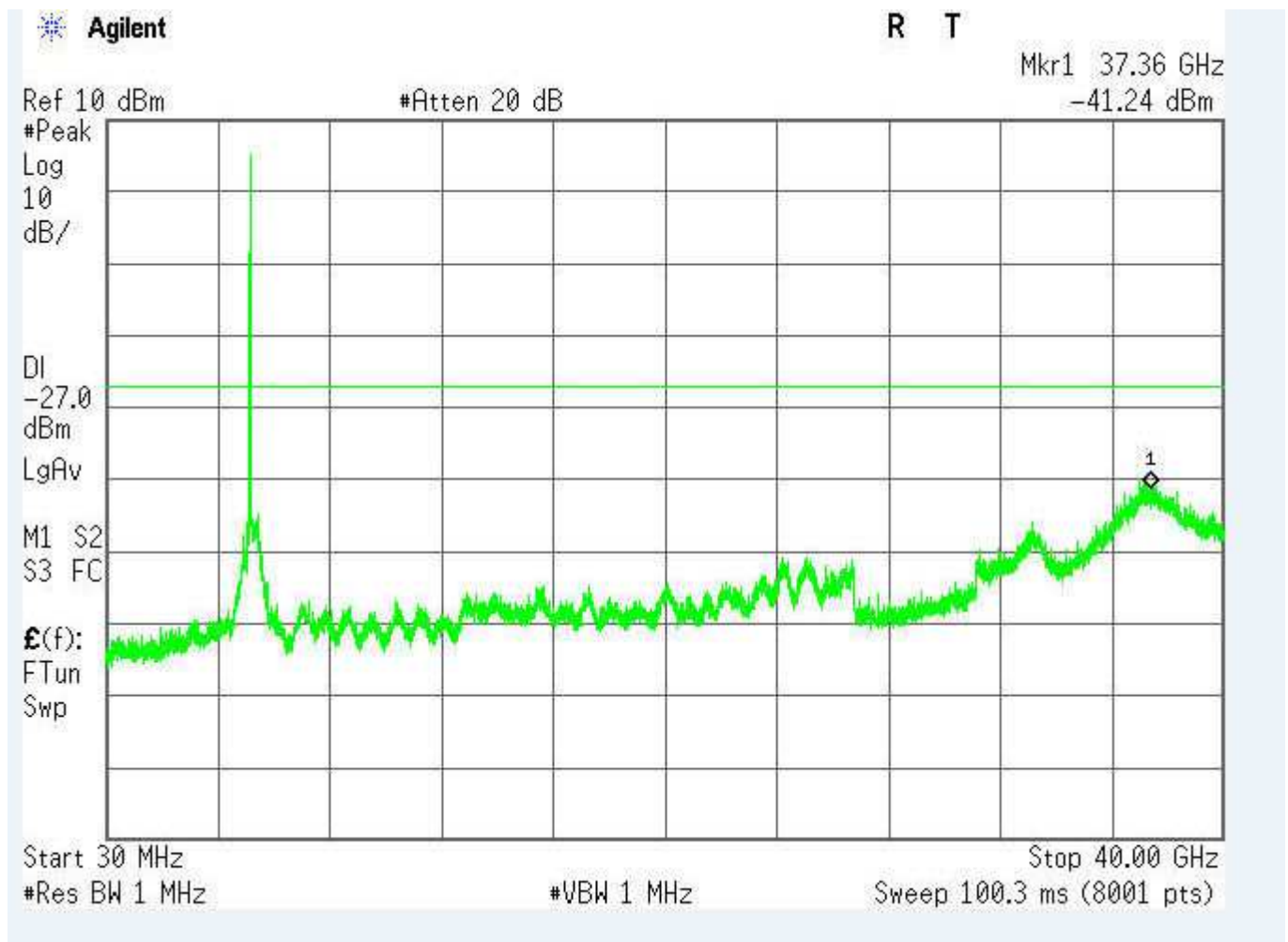
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11 HT n40 mode / 5190 MHz)

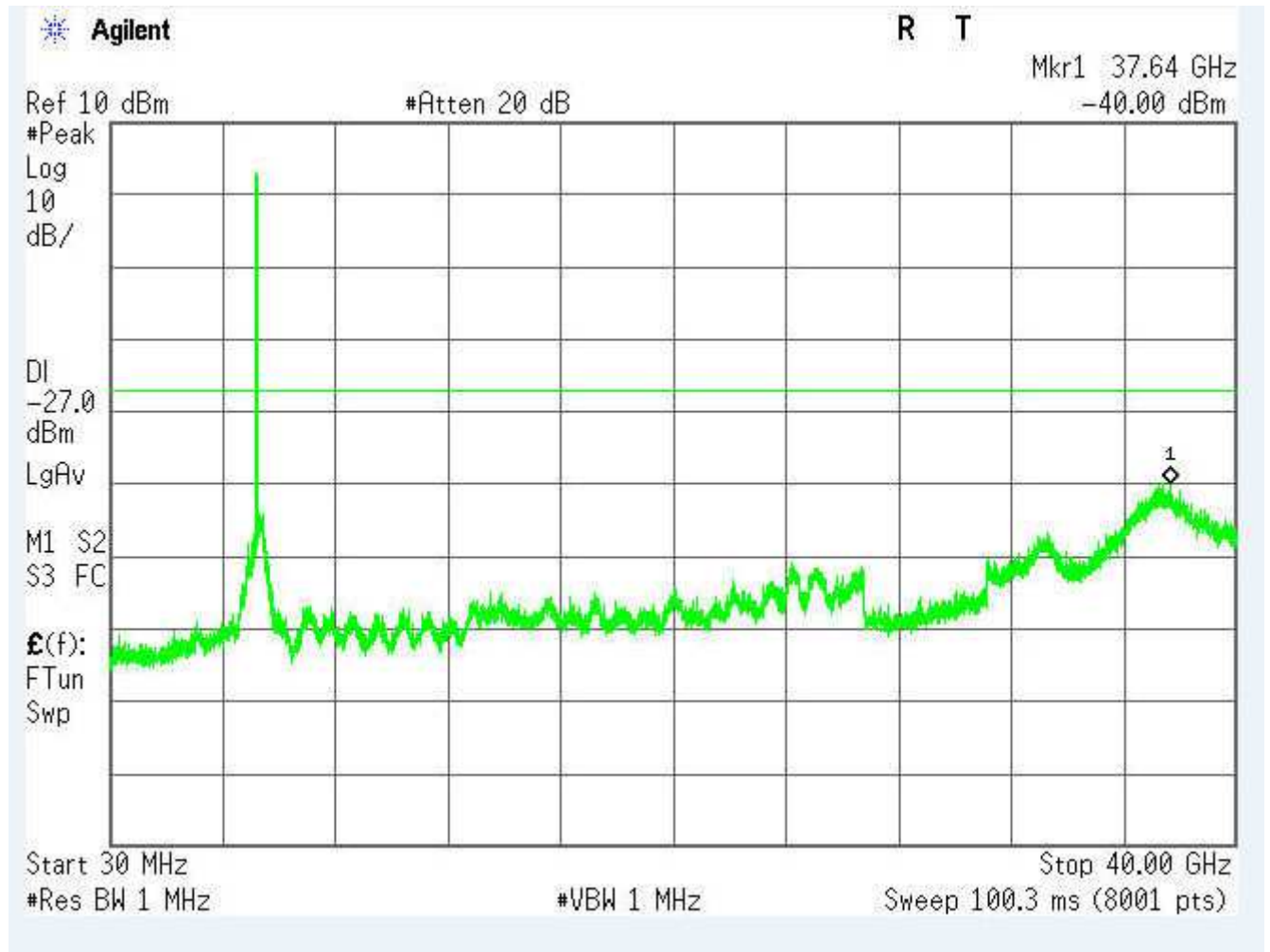
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11 HT n40 mode / 5230 MHz)

Detector mode: Peak

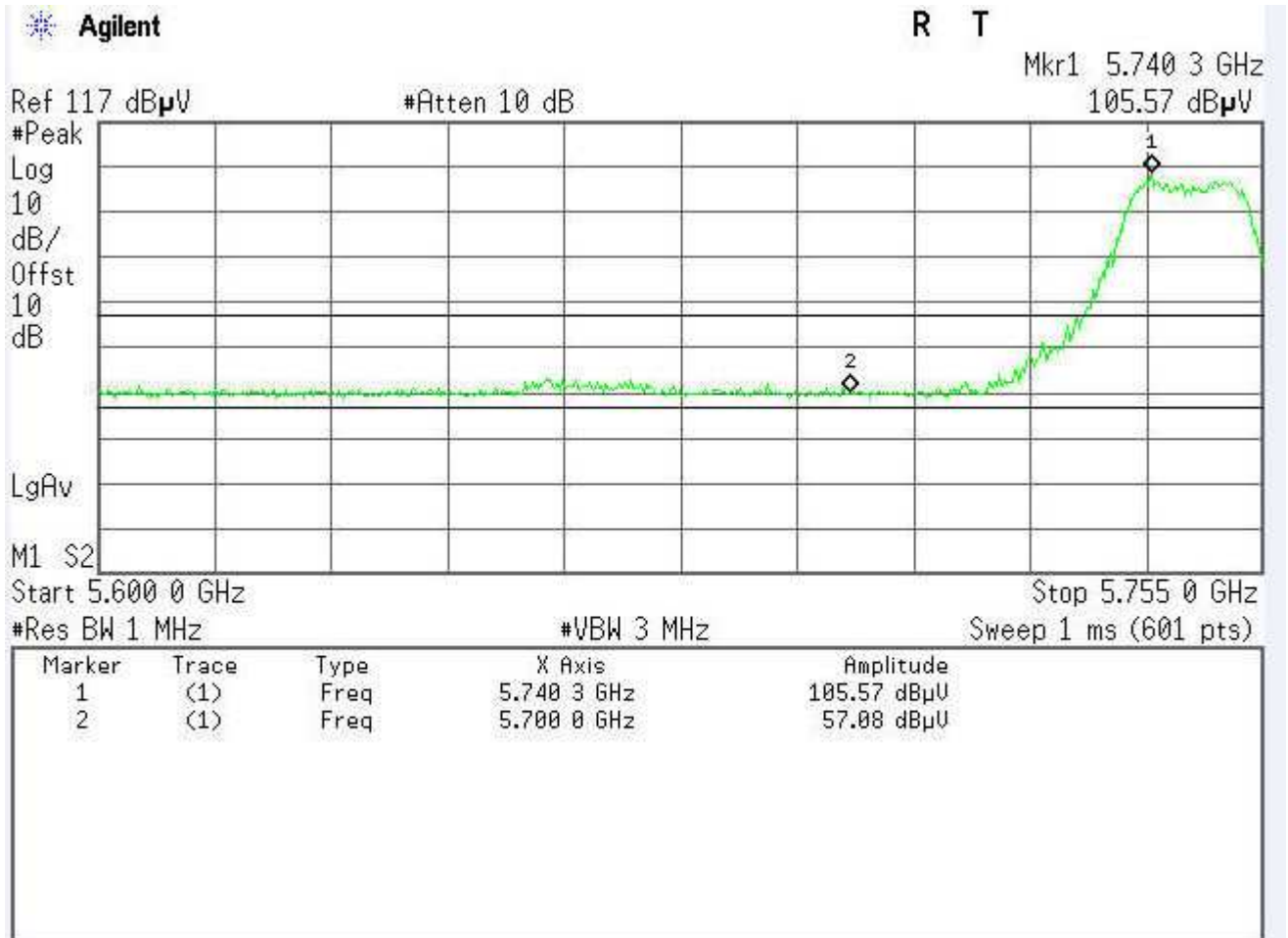


Test Result of Radiated Restricted Band Edge

Band Edges (IEEE 802.11a mode / 5745 MHz)

Detector mode: Peak

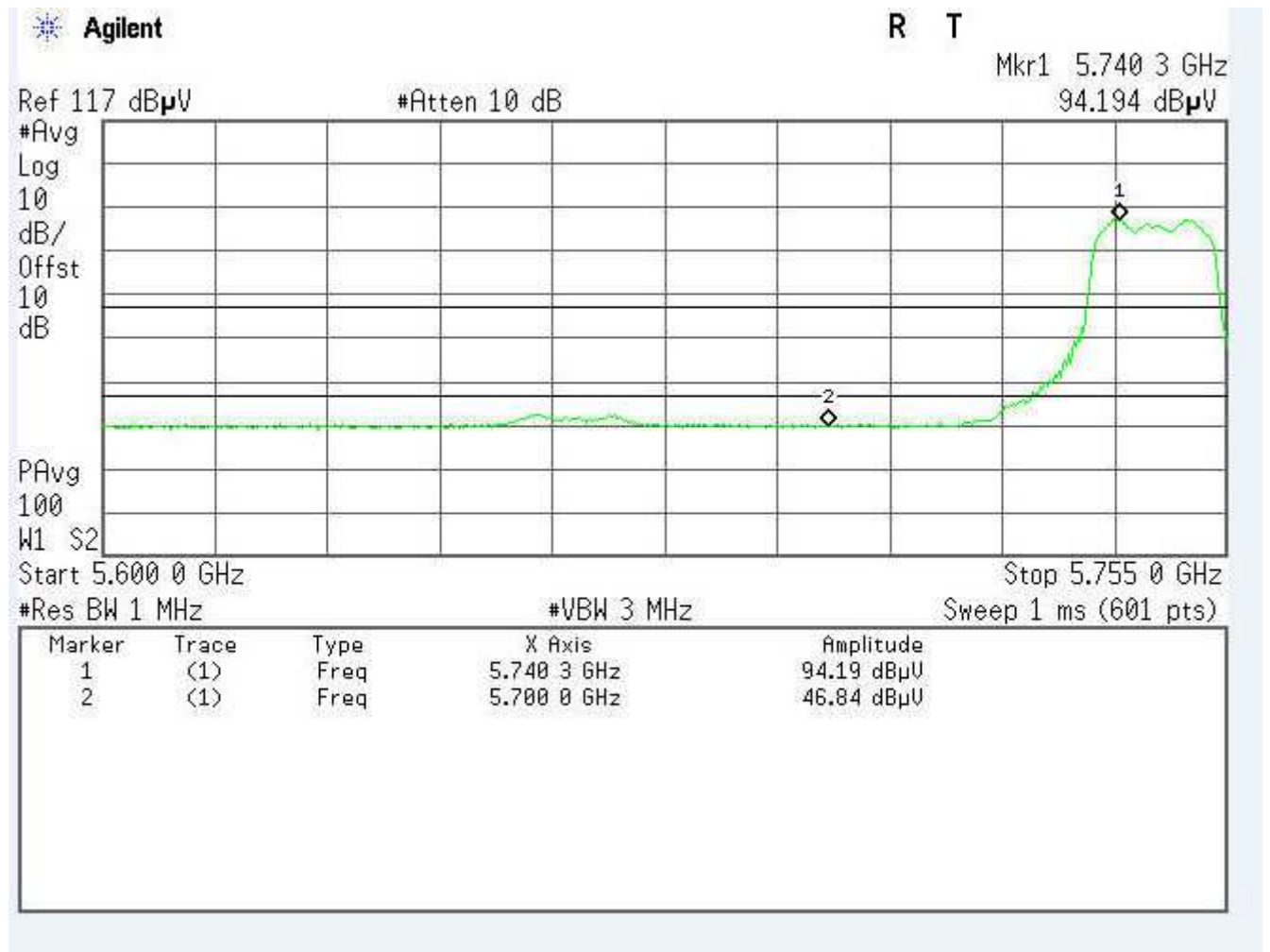
Polarity: Horizontal



Band Edges (IEEE 802.11a mode / 5745 MHz)

Detector mode: Average

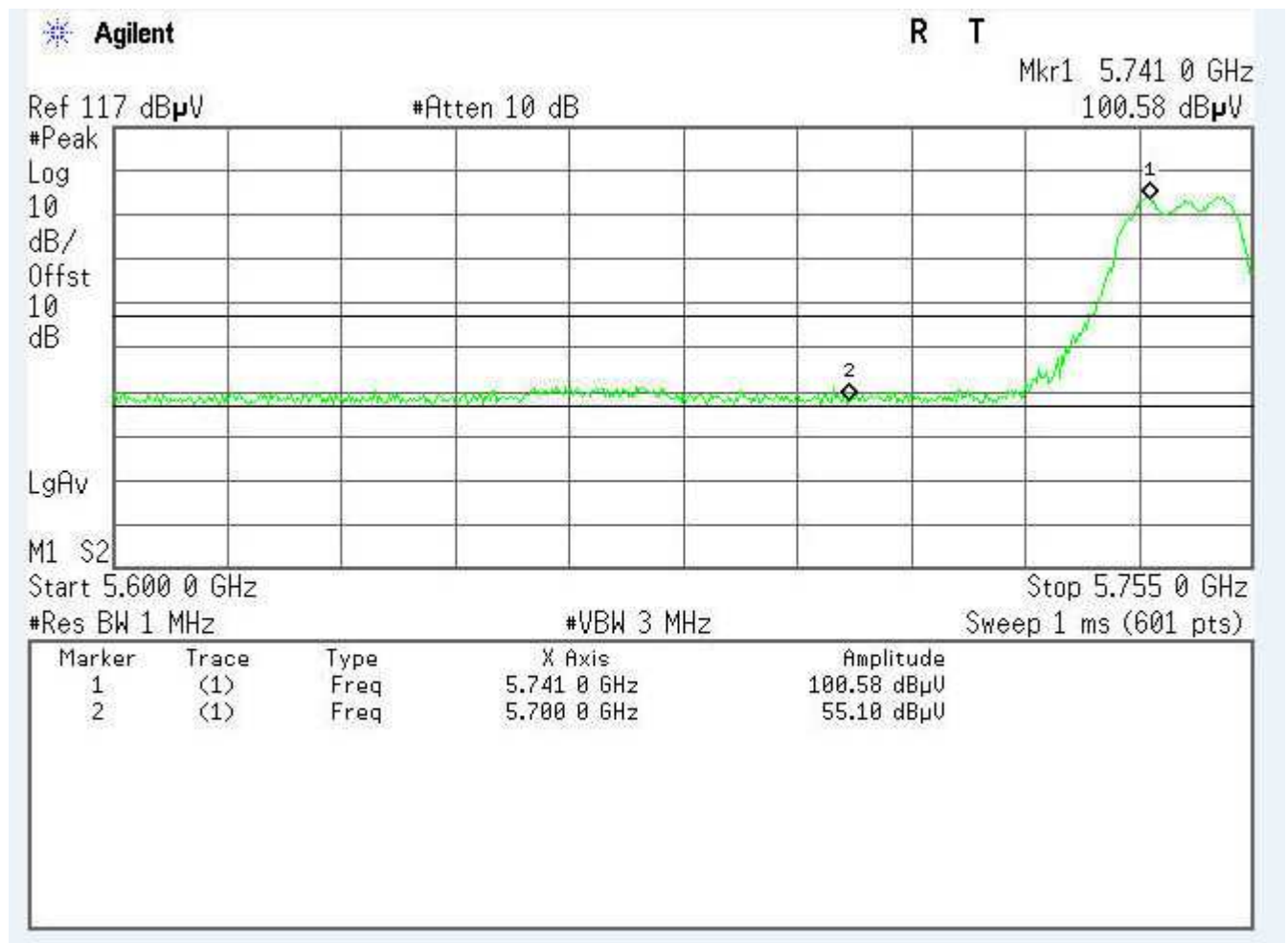
Polarity: Horizontal



Band Edges (IEEE 802.11a mode / 5745 MHz)

Detector mode: Peak

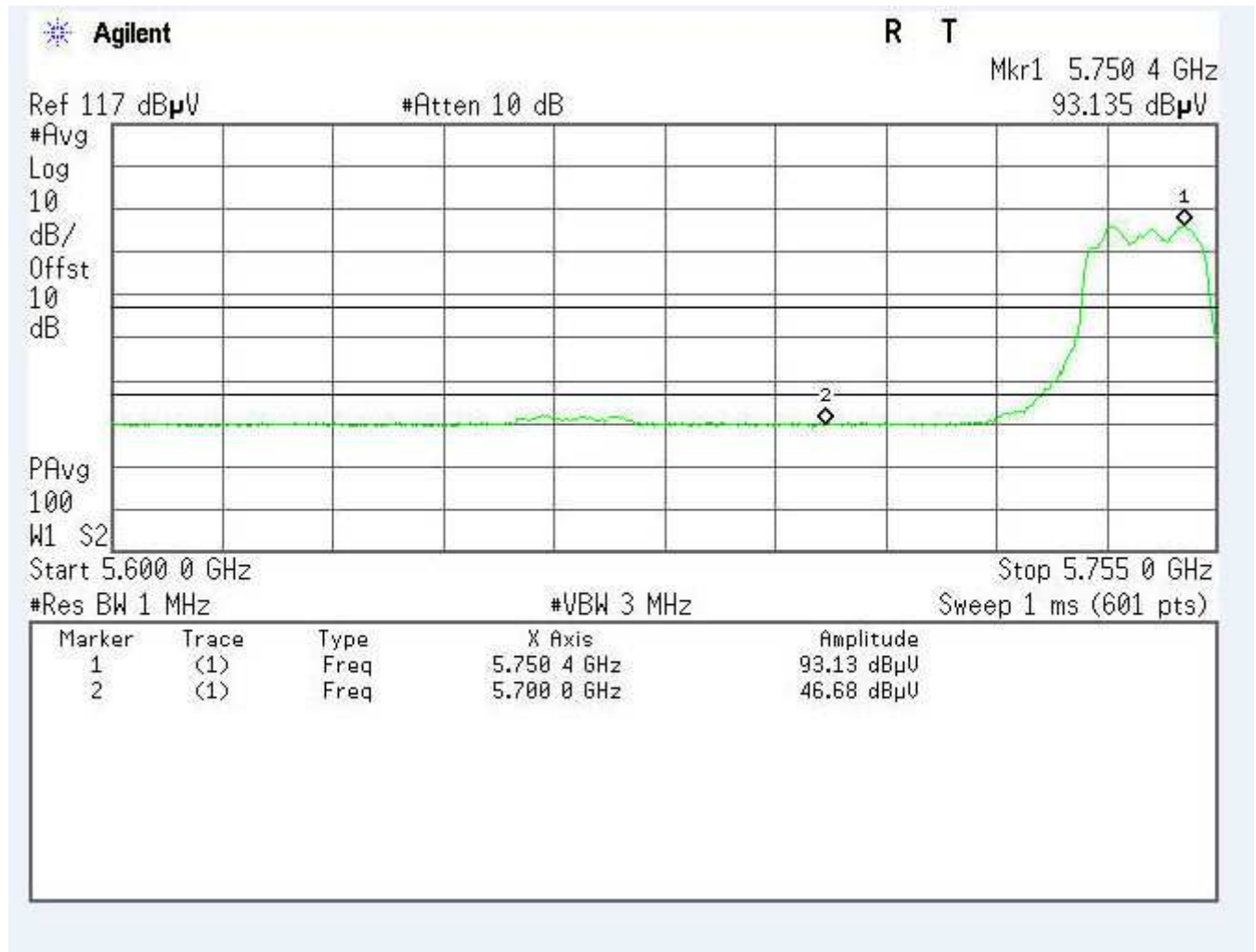
Polarity: Vertical



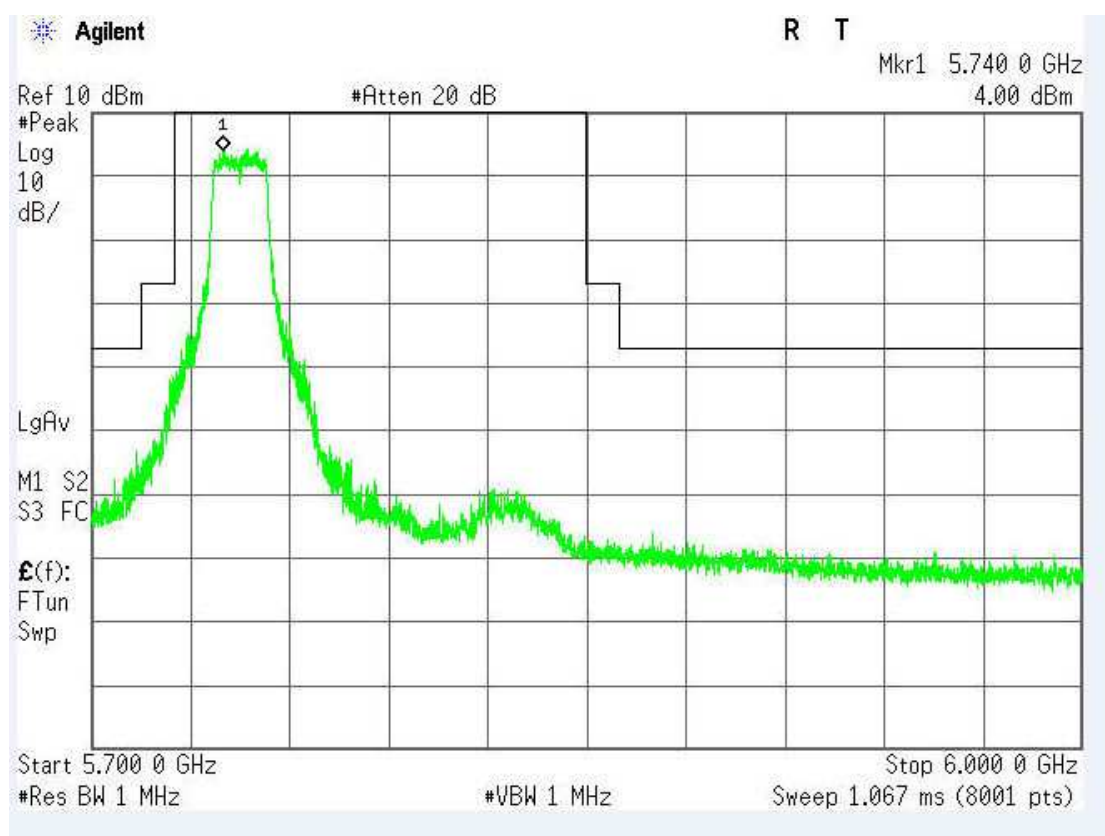
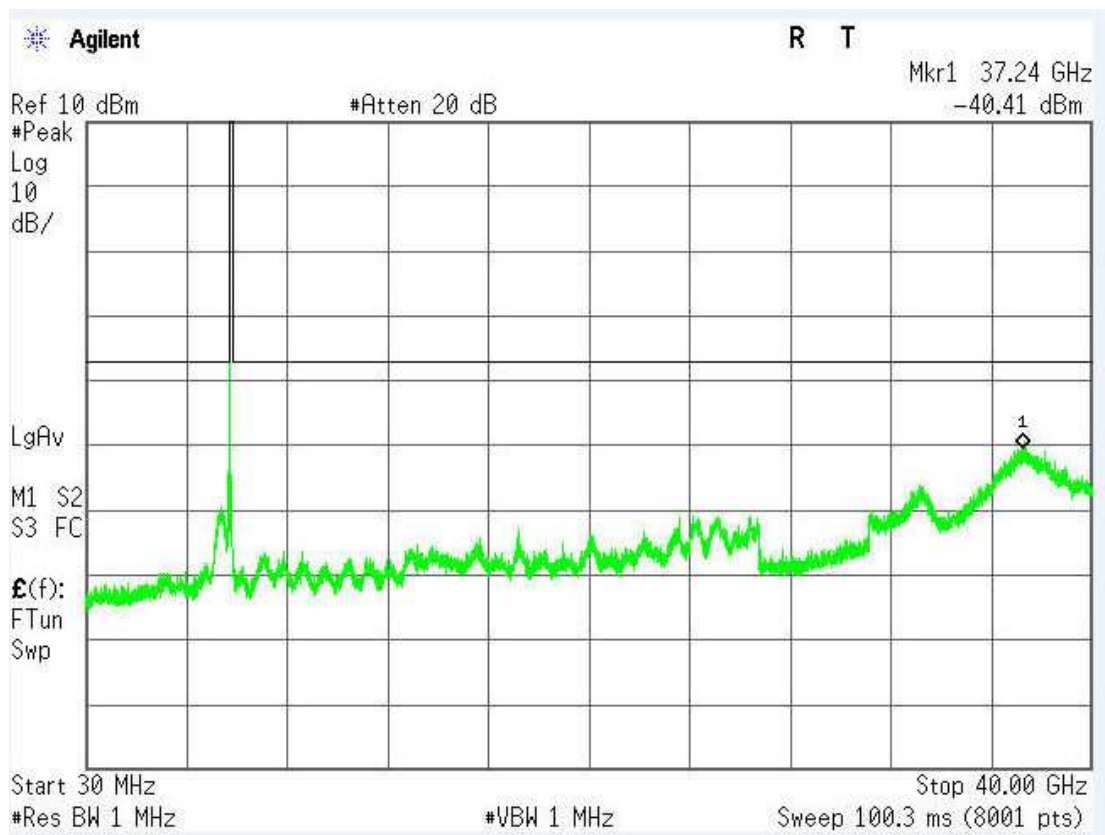
Band Edges (IEEE 802.11a mode / 5745 MHz)

Detector mode: Average

Polarity: Vertical



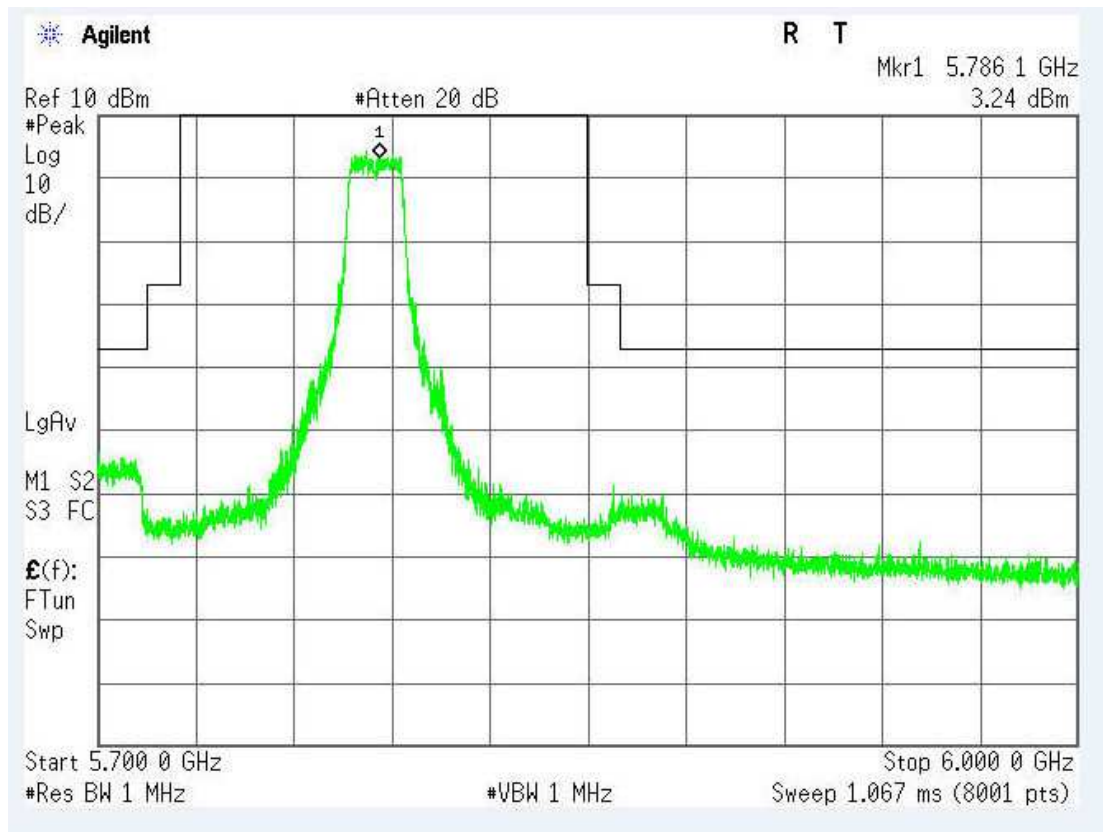
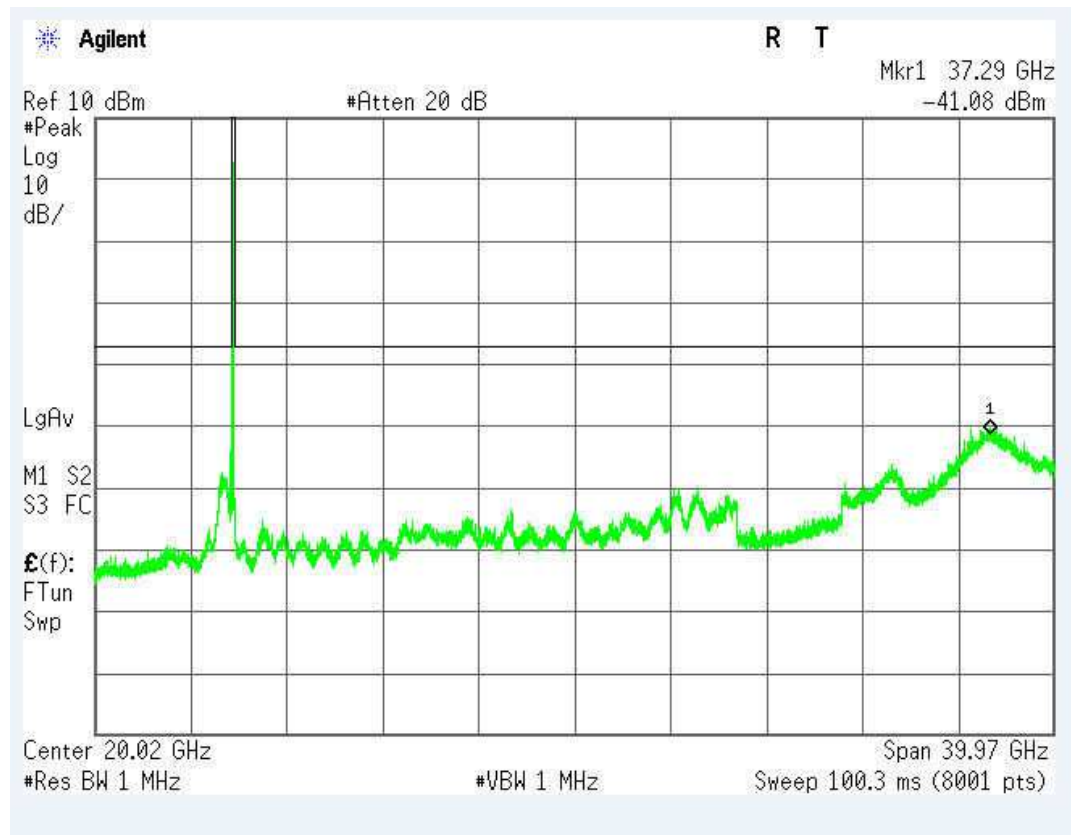
Test Result of Conduction Restricted Band Edge
Chain 1
Band Edges (IEEE 802.11a mode / 5745 MHz)
Detector mode: Peak



Chain 1

Band Edges (IEEE 802.11a mode / 5785 MHz)

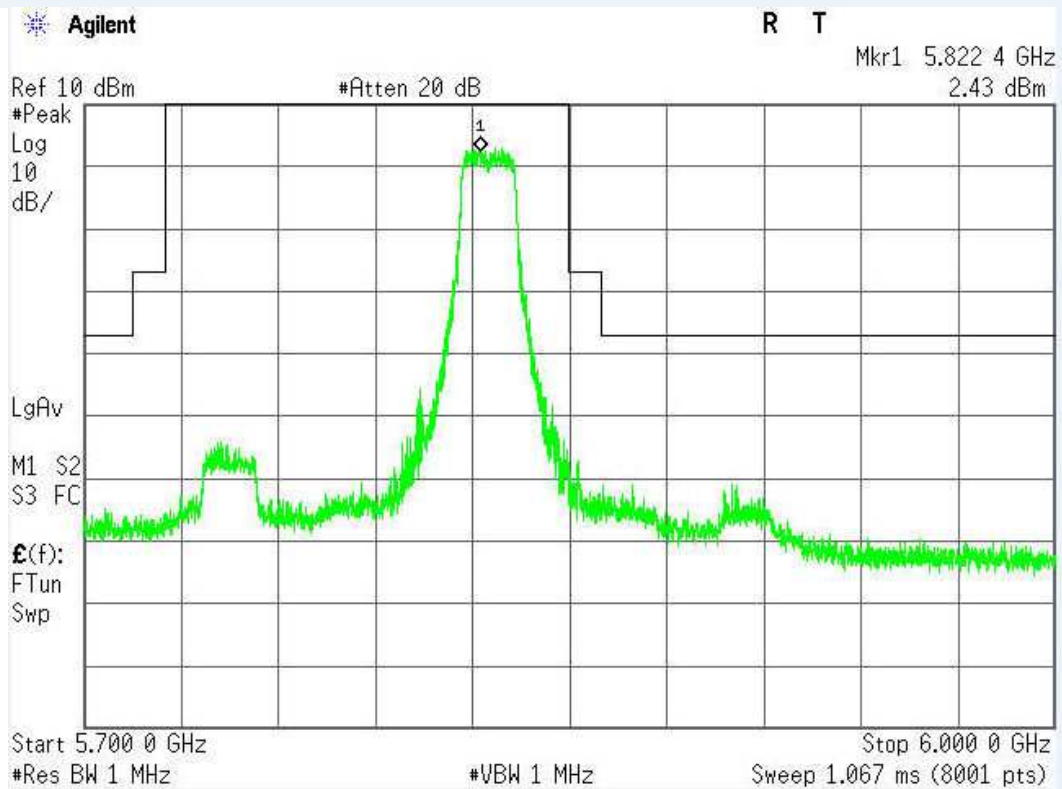
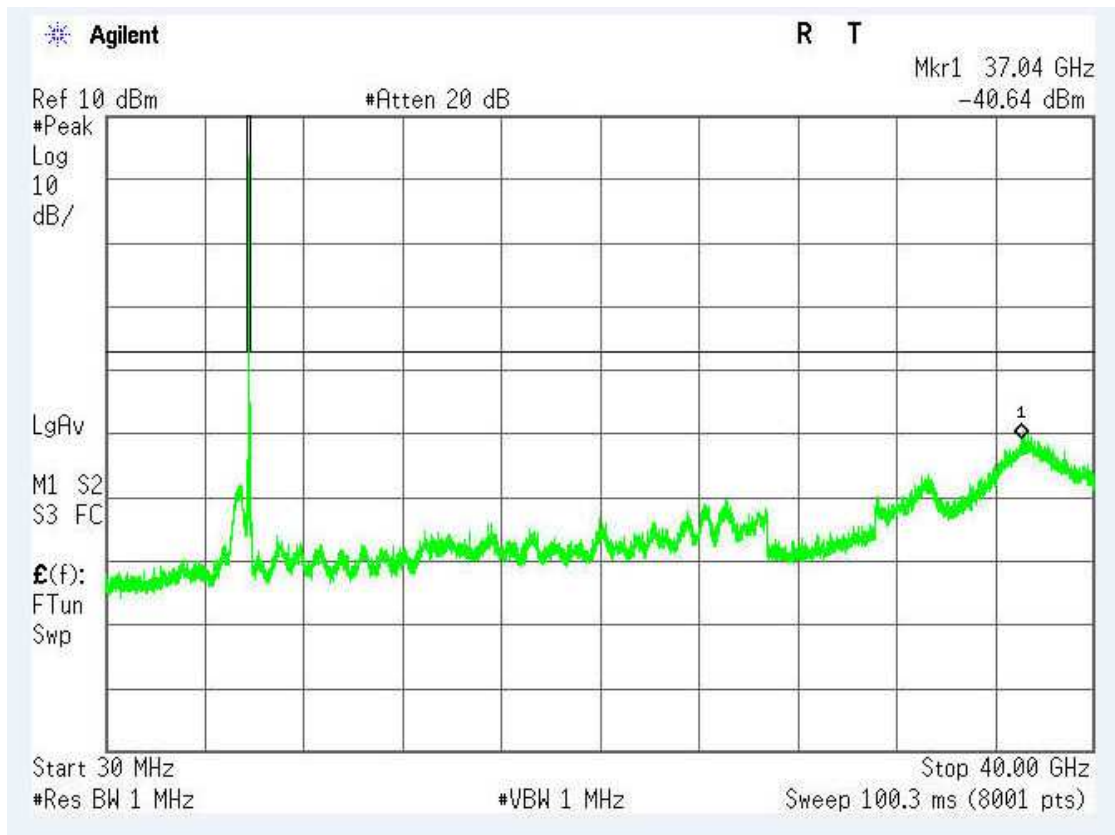
Detector mode: Peak



Chain 1

Band Edges (IEEE 802.11a mode / 5825 MHz)

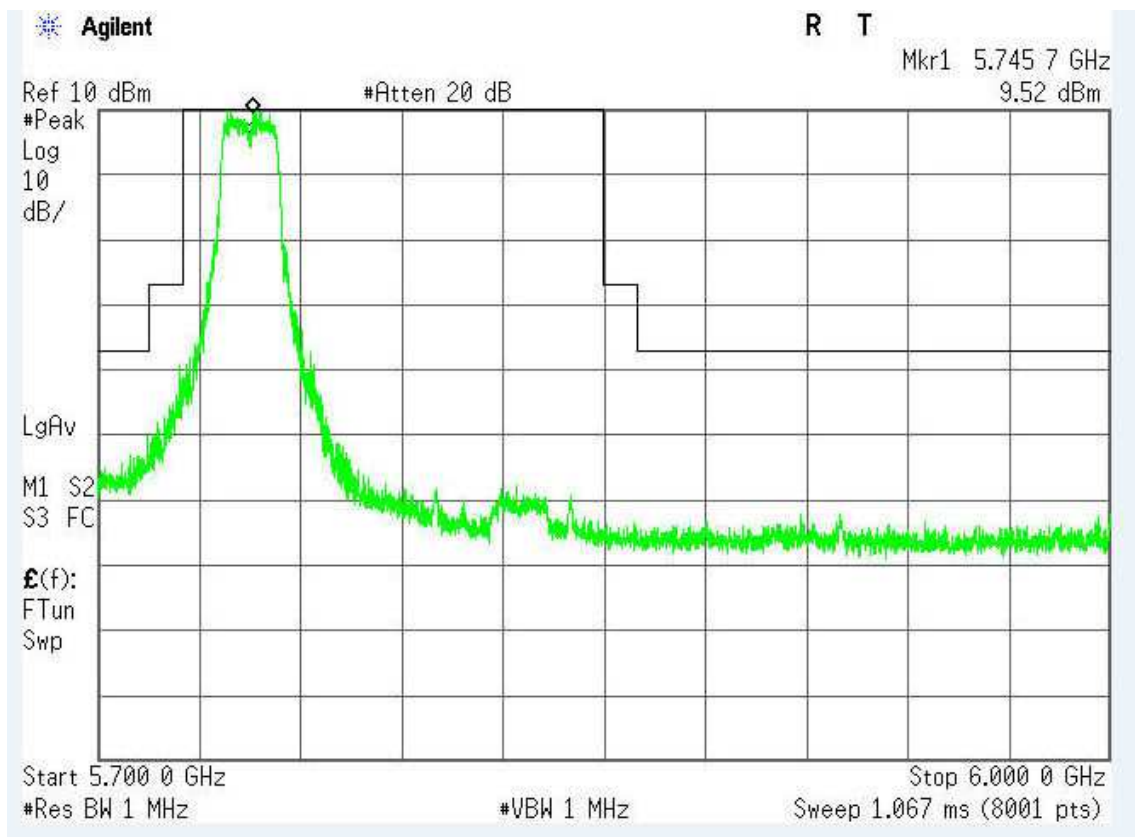
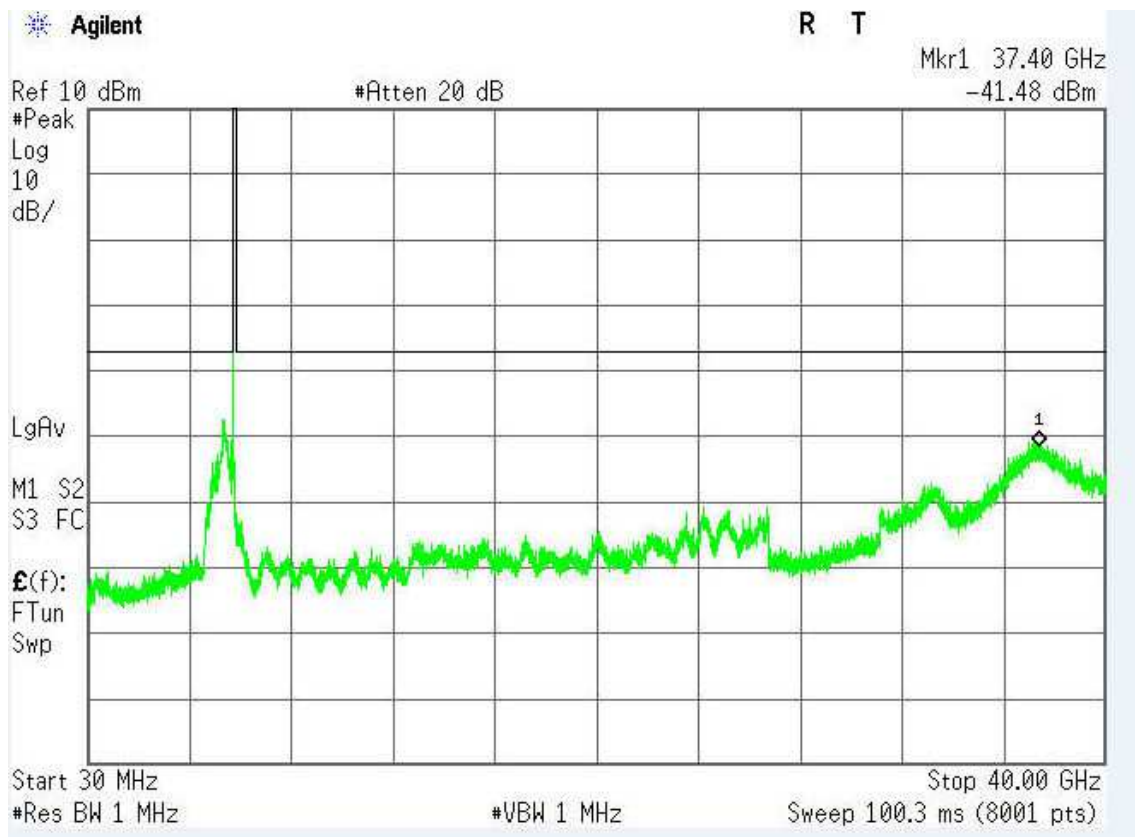
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11a mode / 5745 MHz)

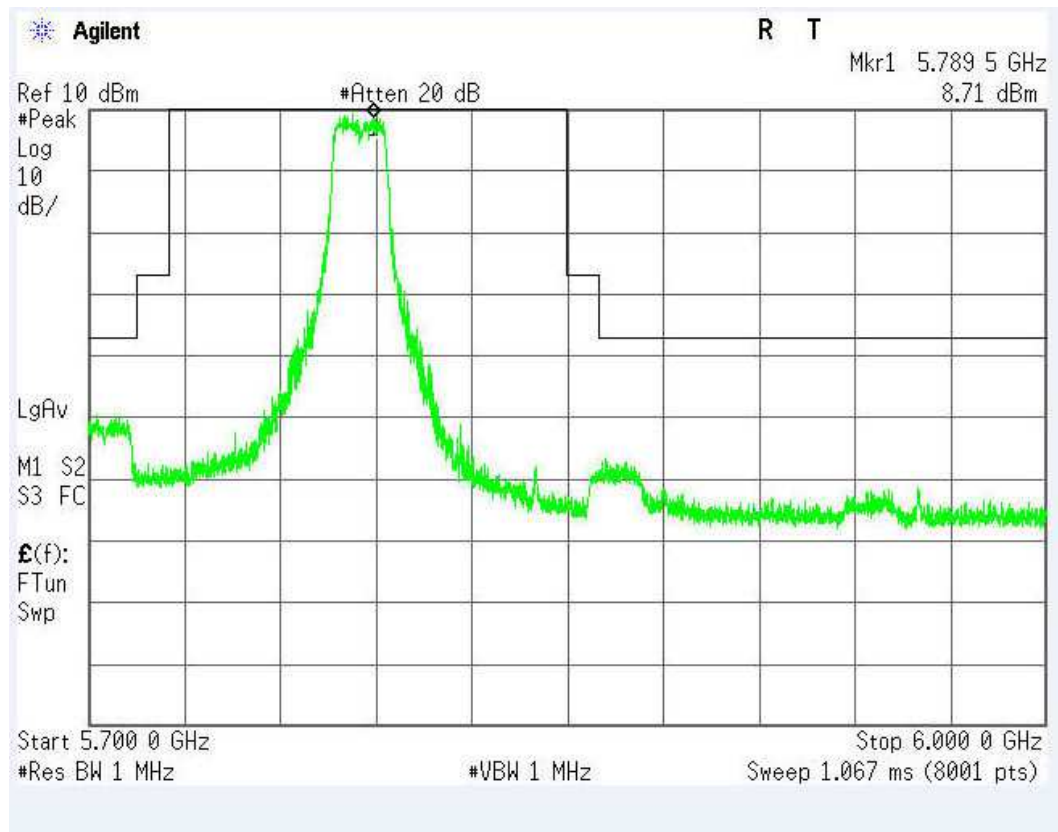
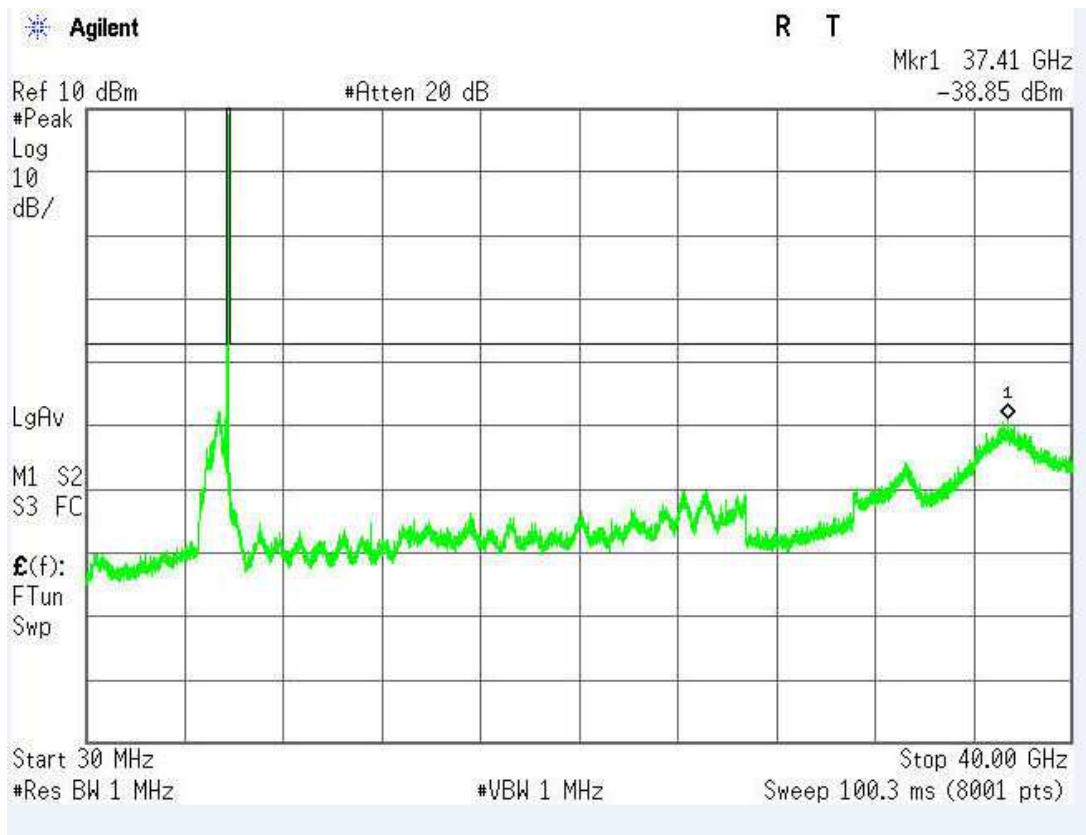
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11a mode / 5785 MHz)

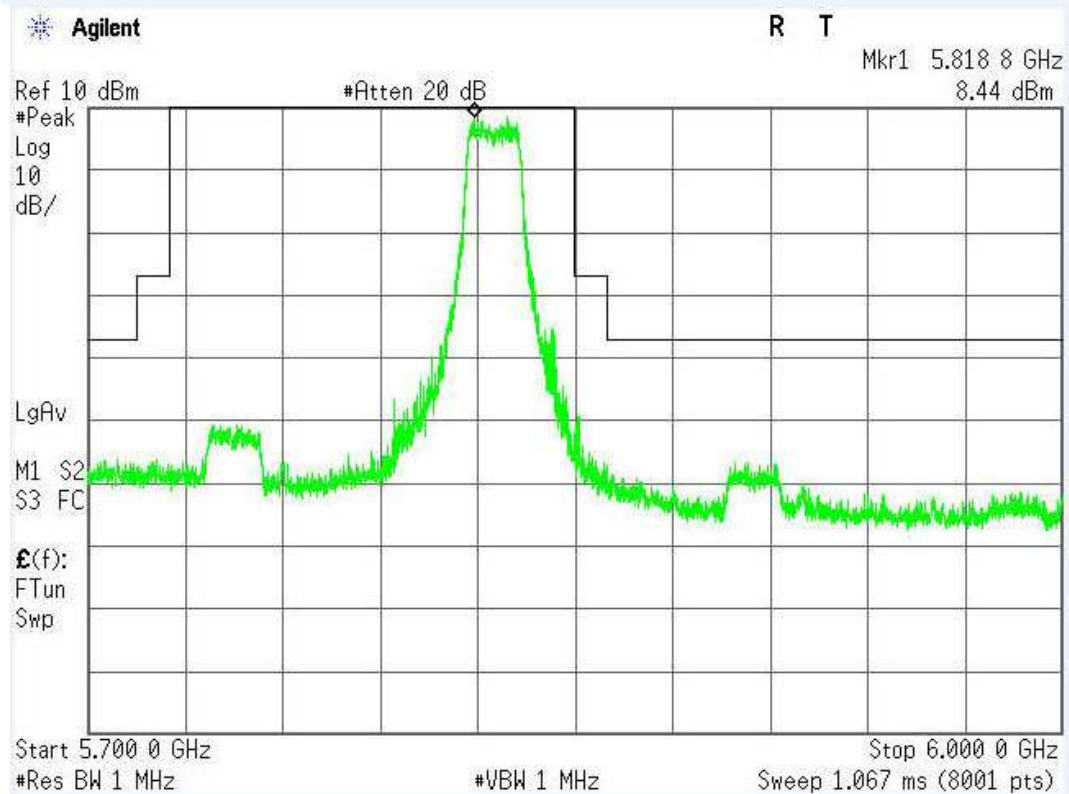
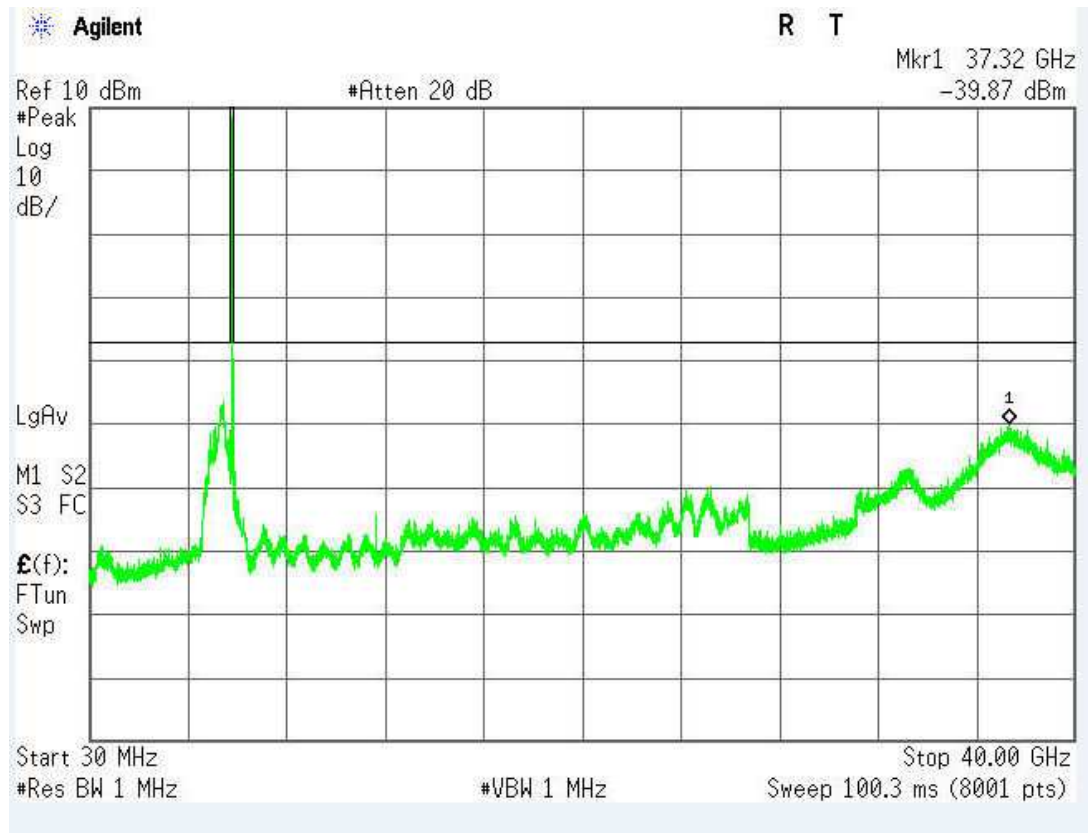
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11a mode / 5825 MHz)

Detector mode: Peak

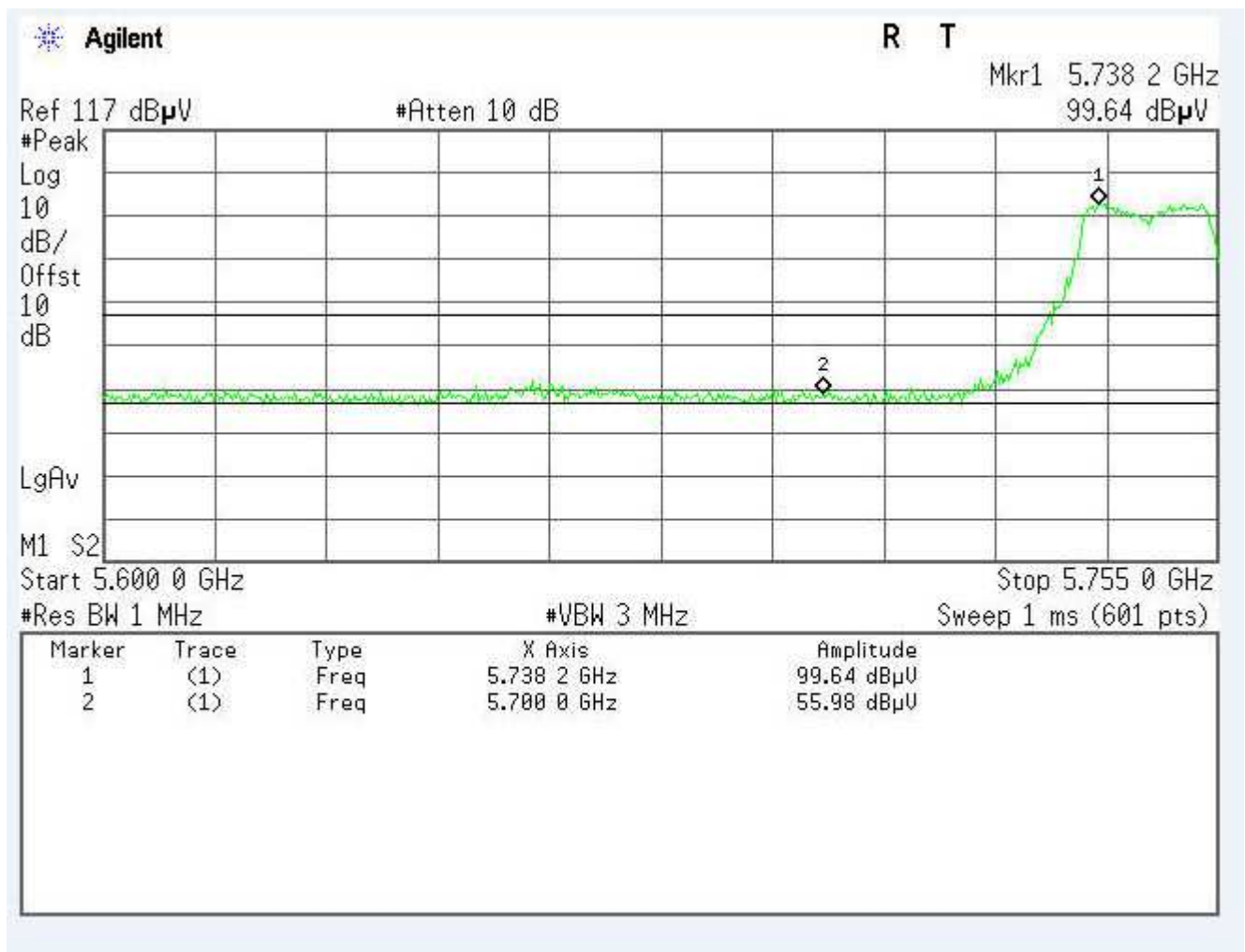


Test Result of Radiated Restricted Band Edge

Band Edges (IEEE 802.11 HT n20 mode / 5745 MHz)

Detector mode: Peak

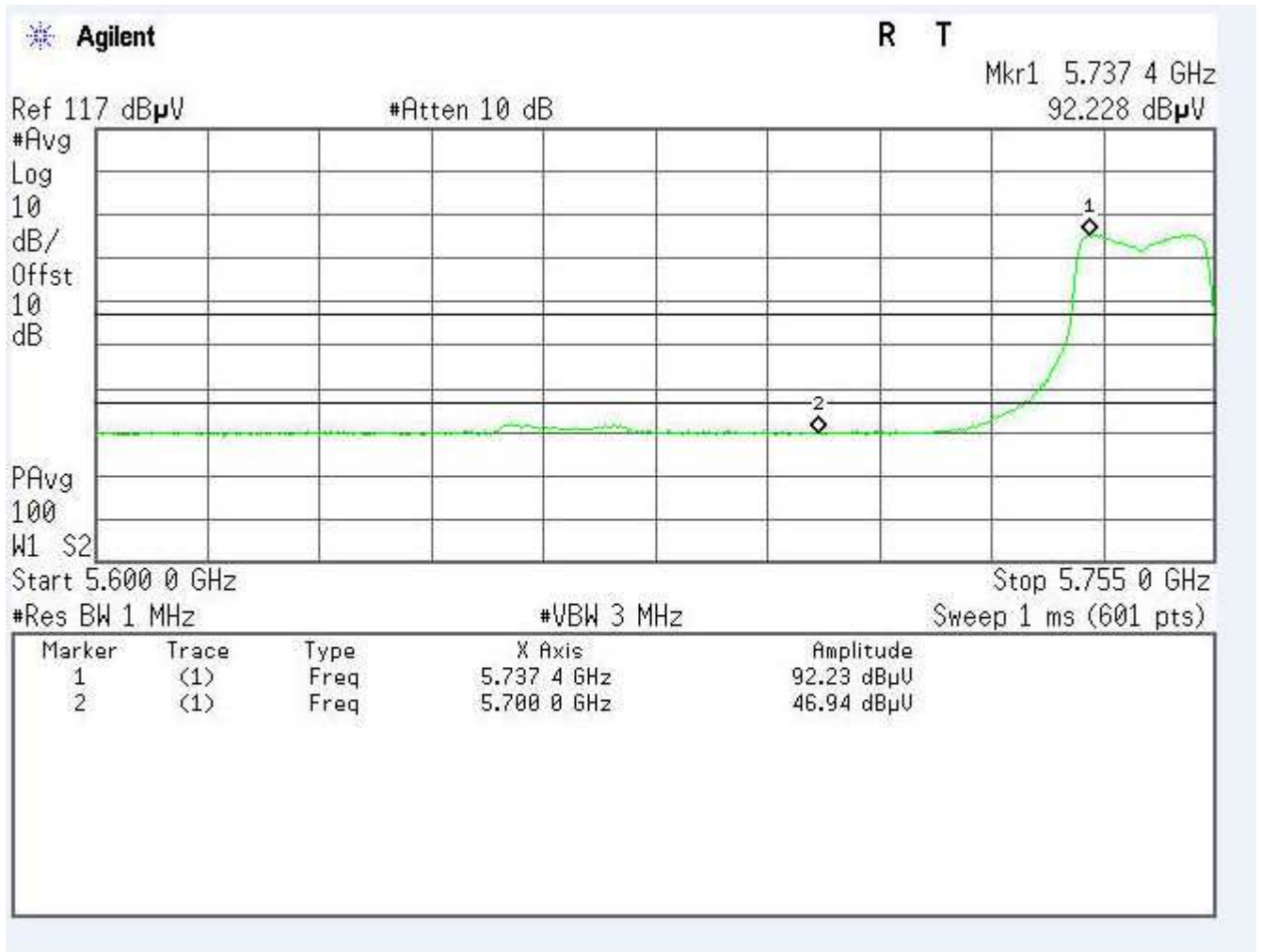
Polarity: Horizontal



Band Edges (IEEE 802.11 HT n20 mode / 5745 MHz)

Detector mode: Average

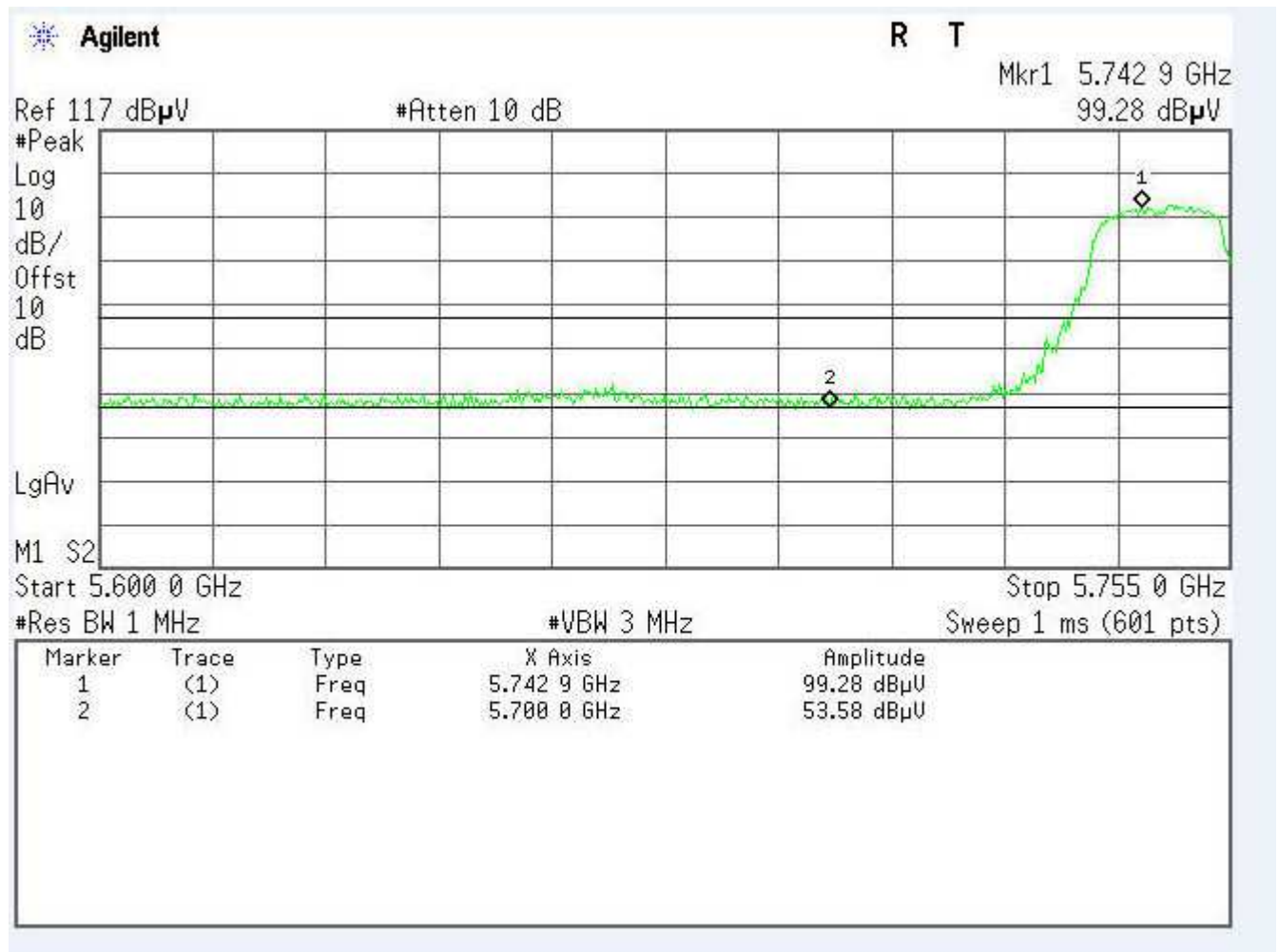
Polarity: Horizontal



Band Edges (IEEE 802.11 HT n20 mode / 5745 MHz)

Detector mode: Peak

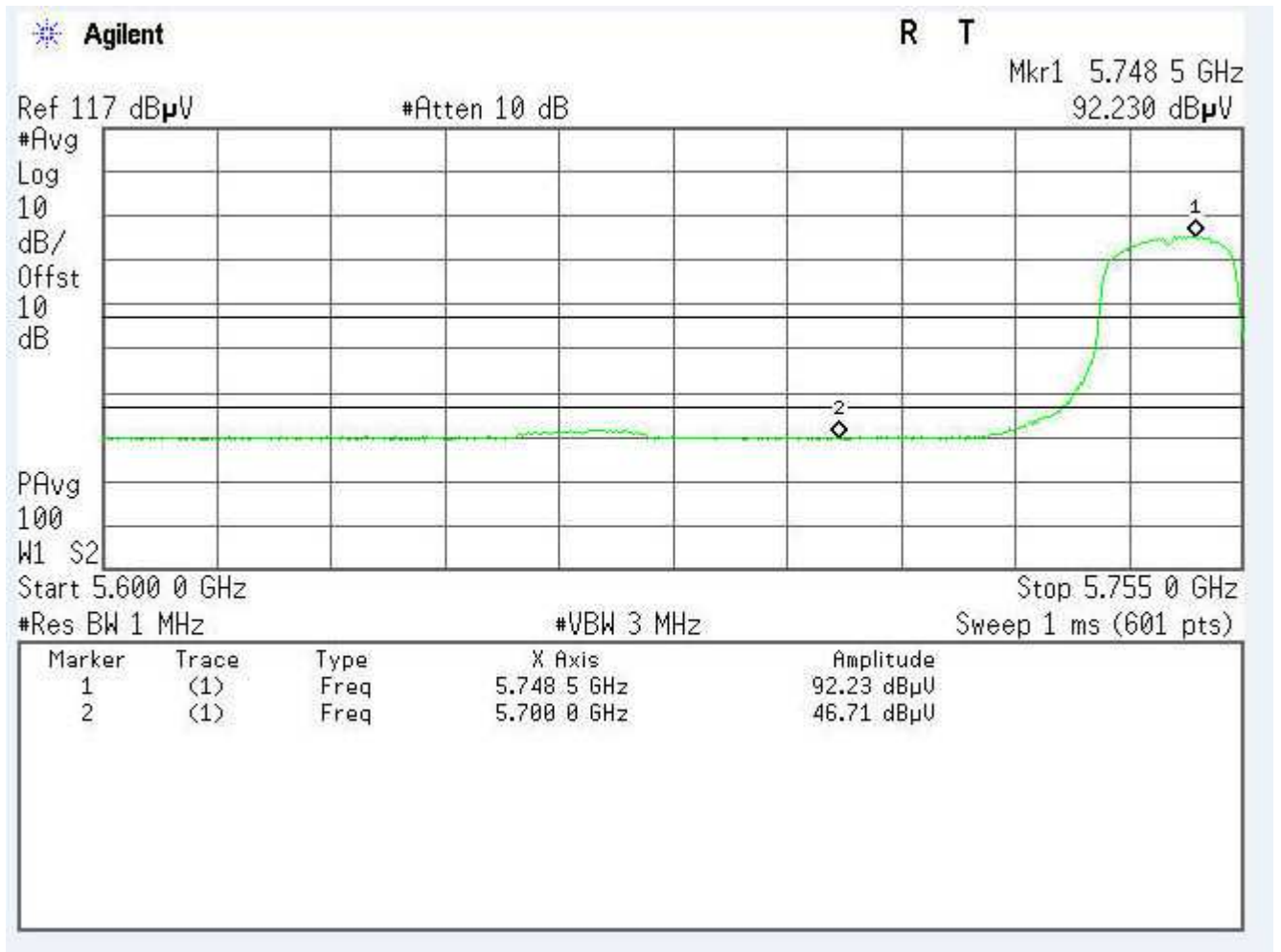
Polarity: Vertical



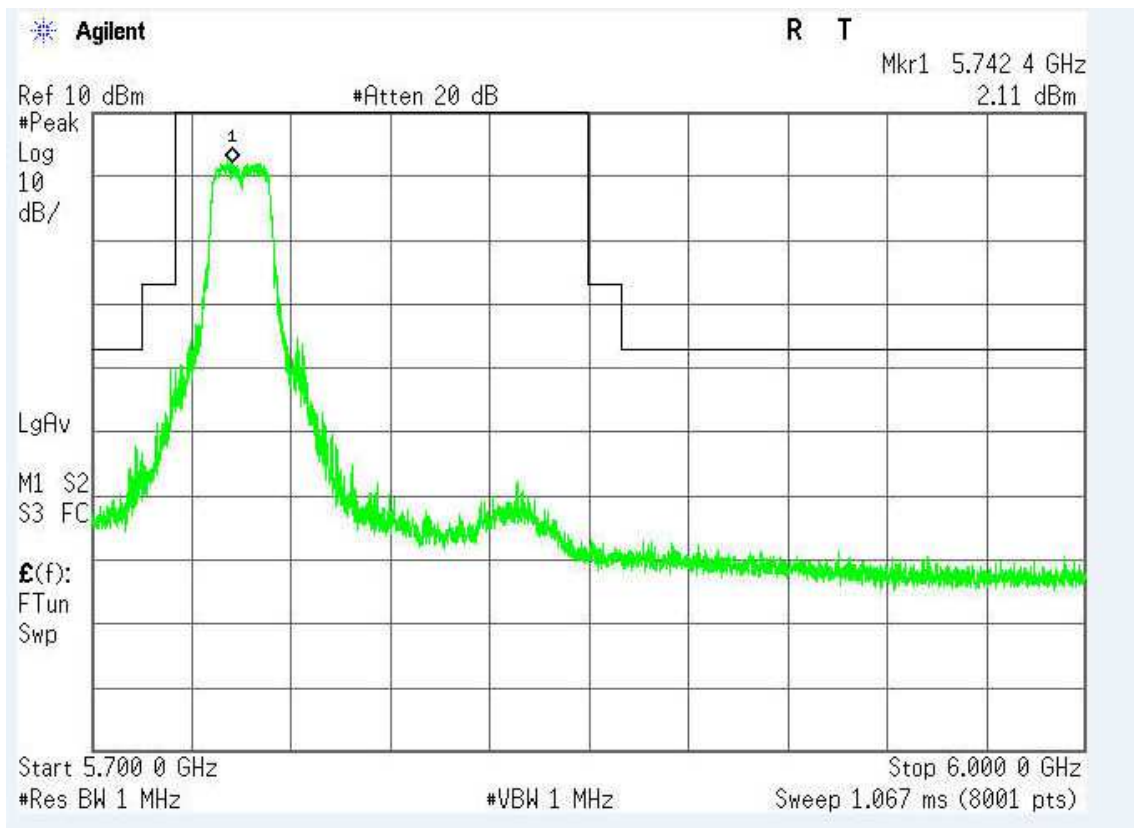
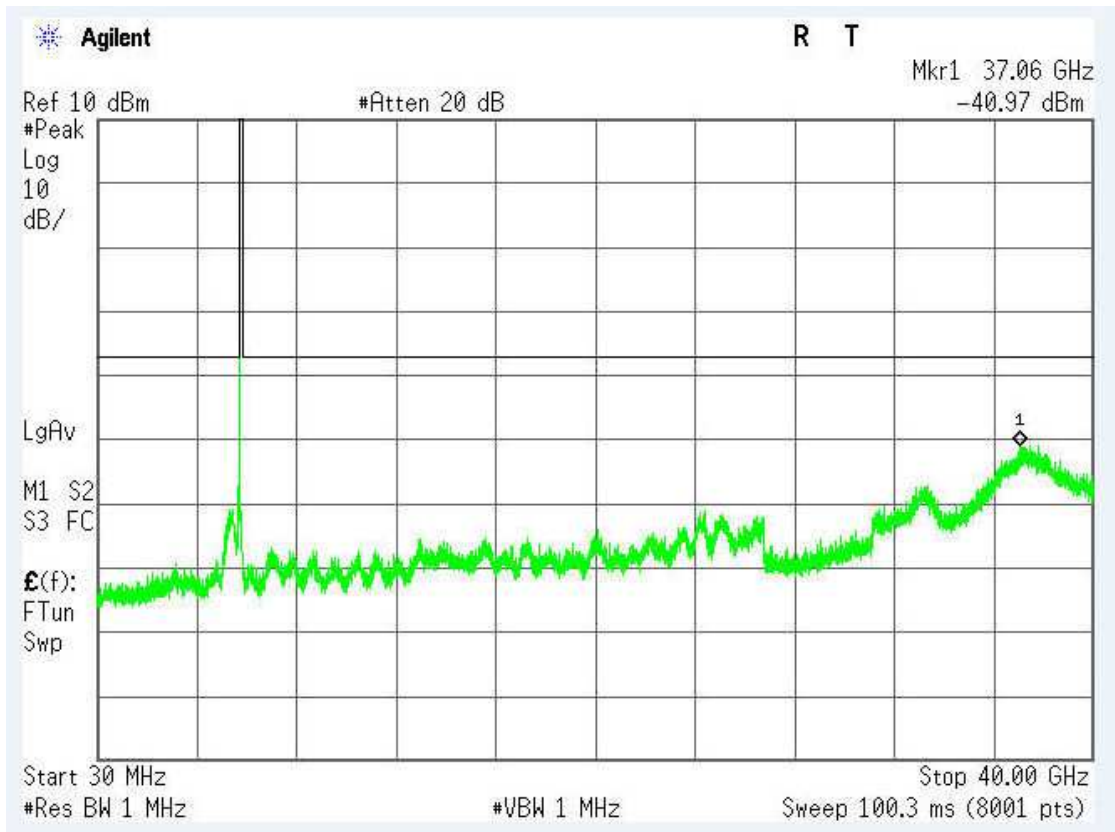
Band Edges (IEEE 802.11 HT n20 mode / 5745 MHz)

Detector mode: Average

Polarity: Vertical



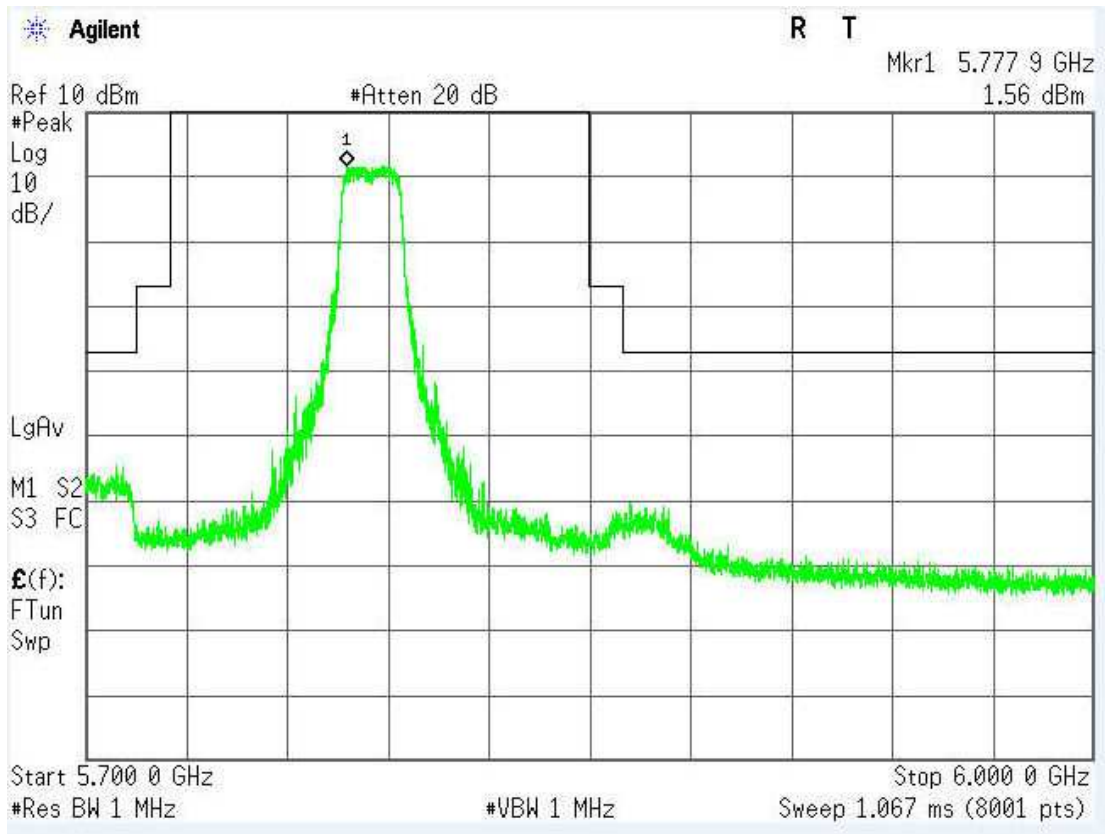
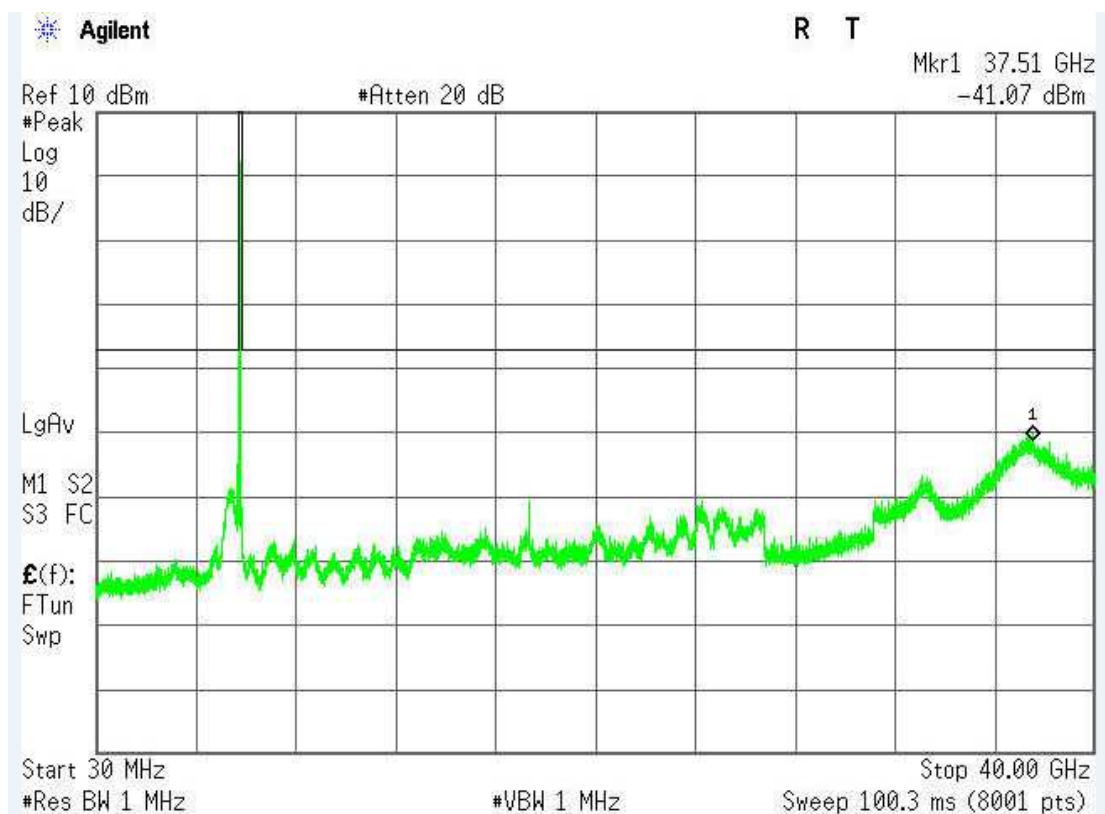
Test Result of Conduction Restricted Band Edge
Chain 1
Band Edges (IEEE 802.11 HT n20 mode / 5745 MHz)
Detector mode: Peak



Chain 1

Band Edges (IEEE 802.11 HT n20 mode / 5785 MHz)

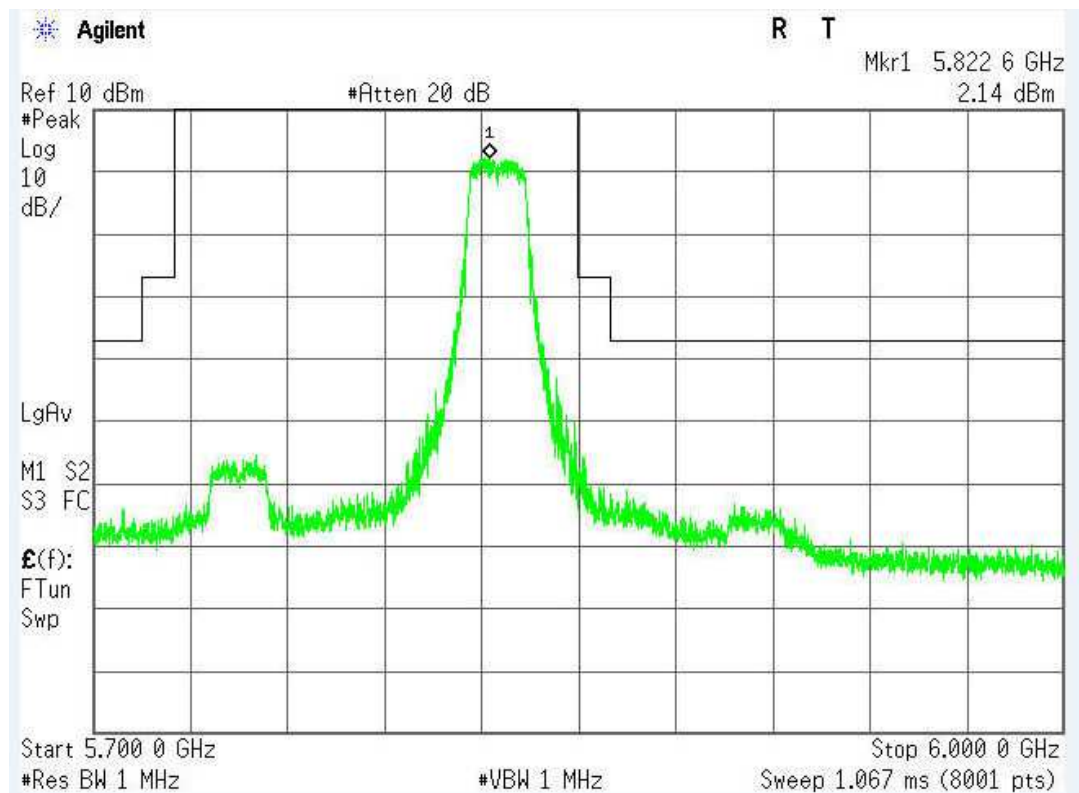
Detector mode: Peak



Chain 1

Band Edges (IEEE 802.11 HT n20 mode / 5825 MHz)

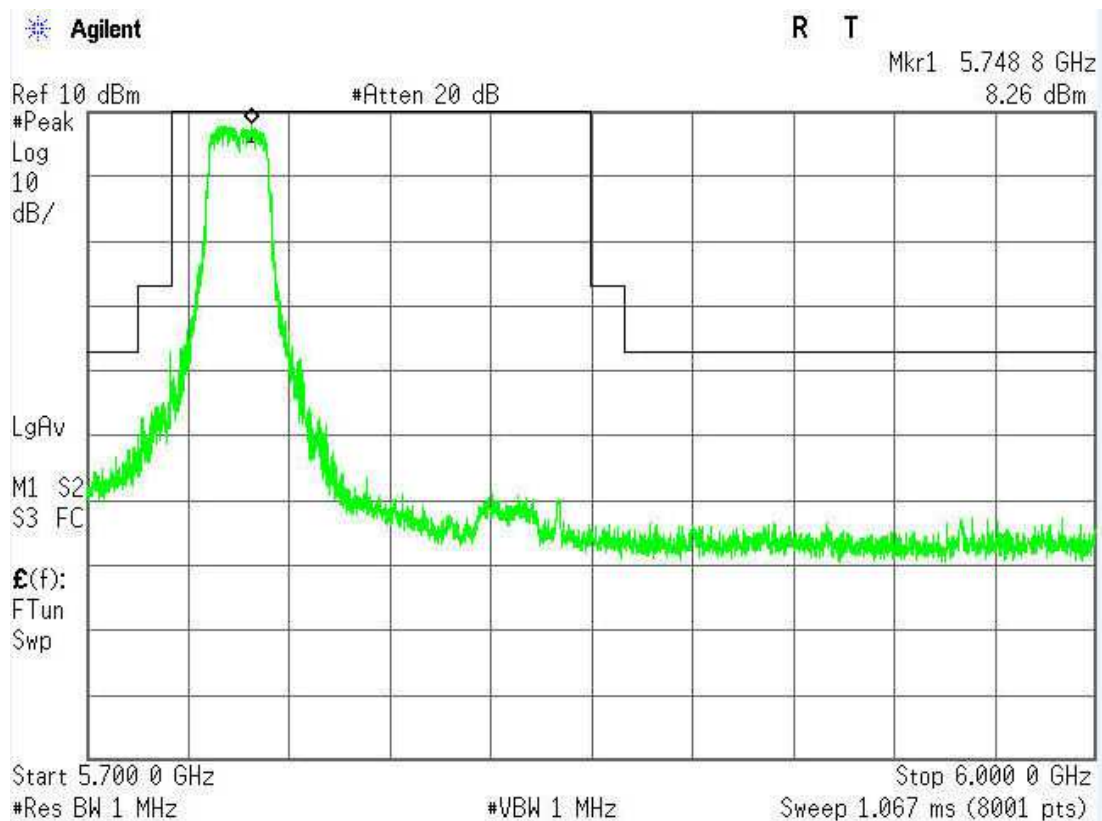
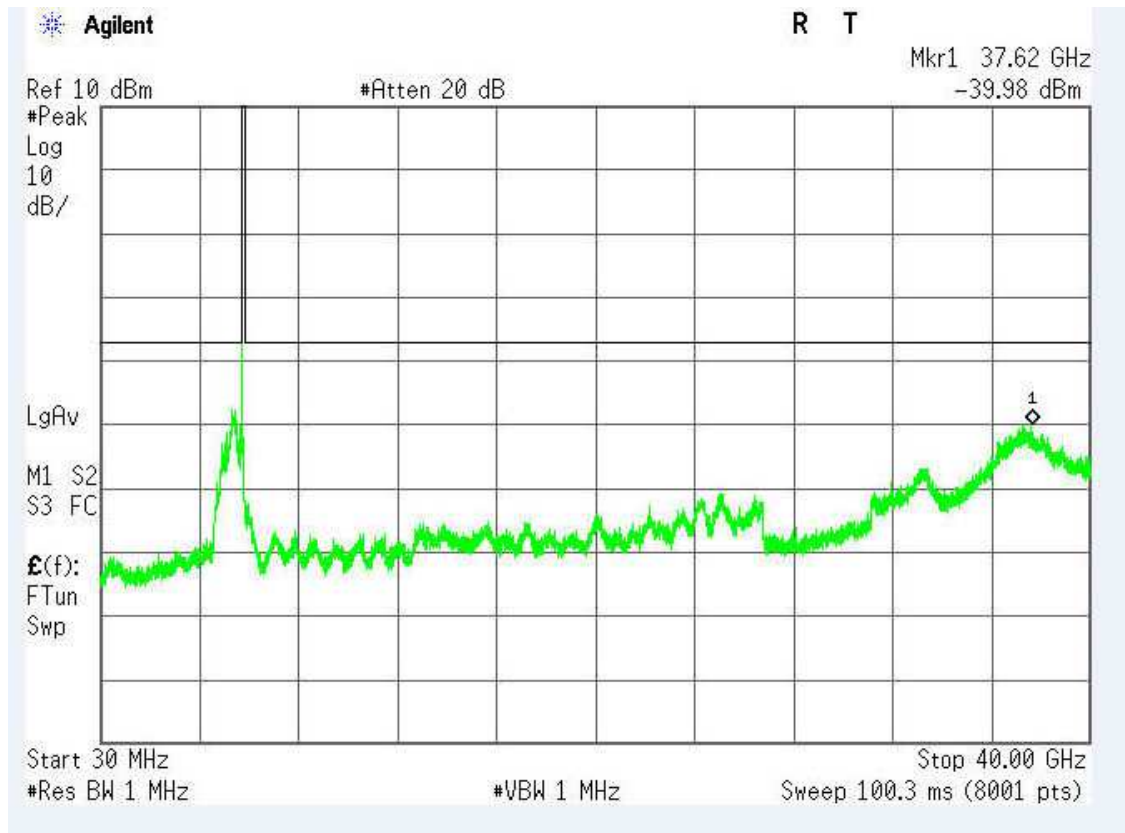
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11 HT n20 mode / 5745 MHz)

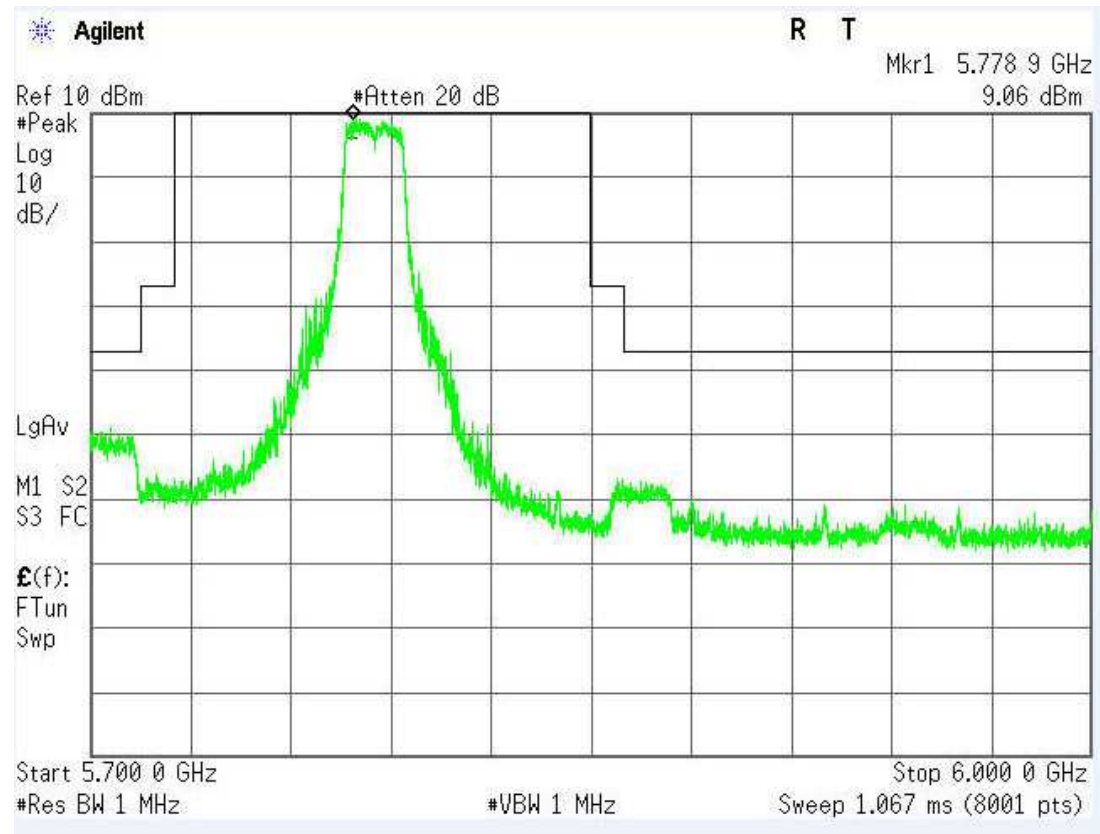
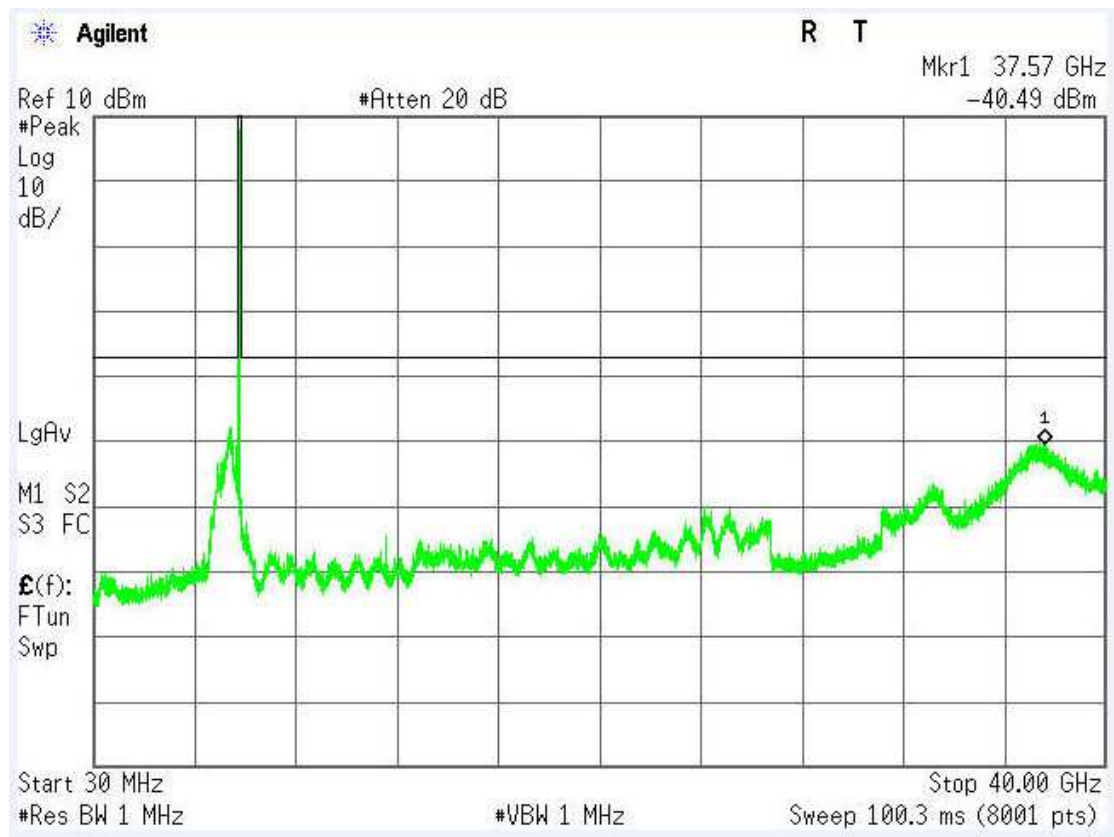
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11 HT n20 mode / 5785 MHz)

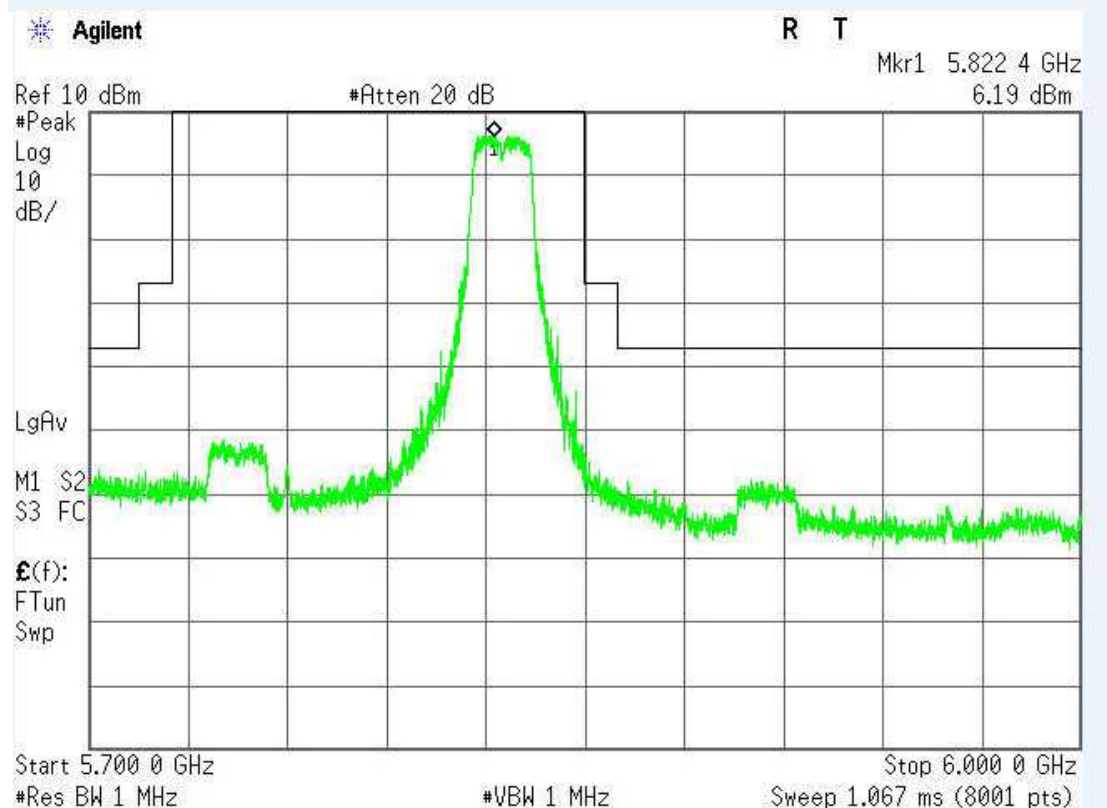
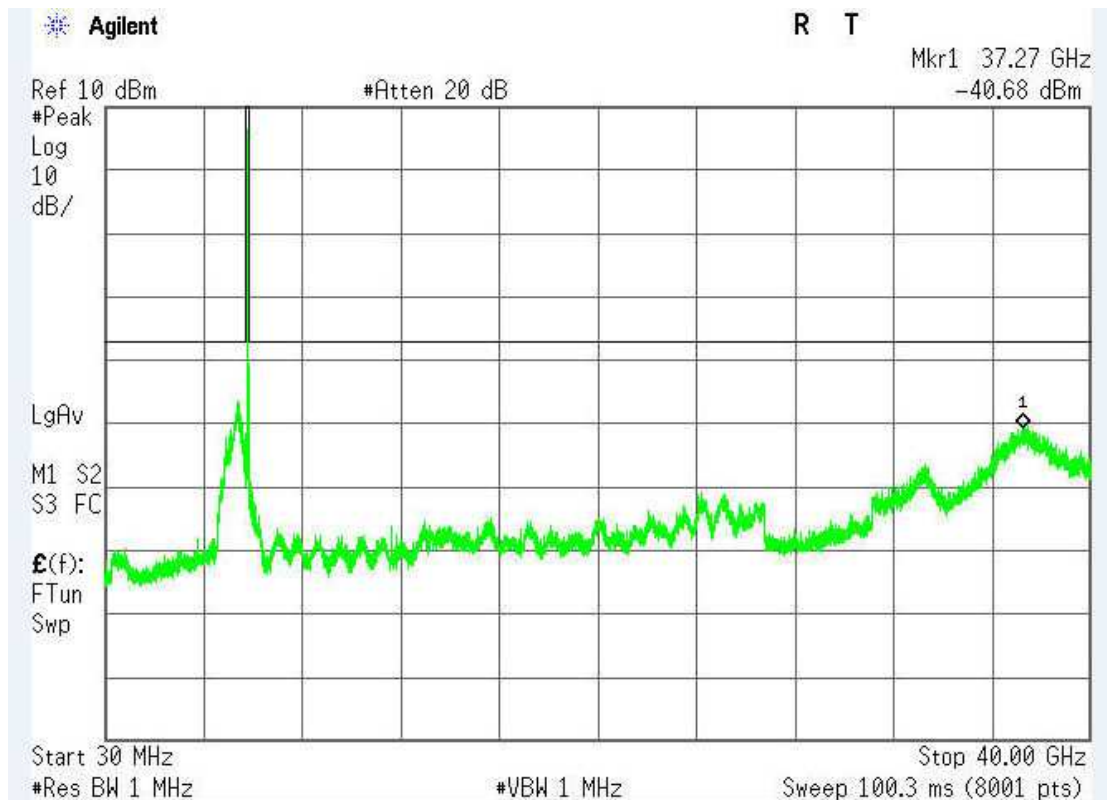
Detector mode: Peak



Chain 2

Band Edges (IEEE 802.11 HT n20 mode / 5825 MHz)

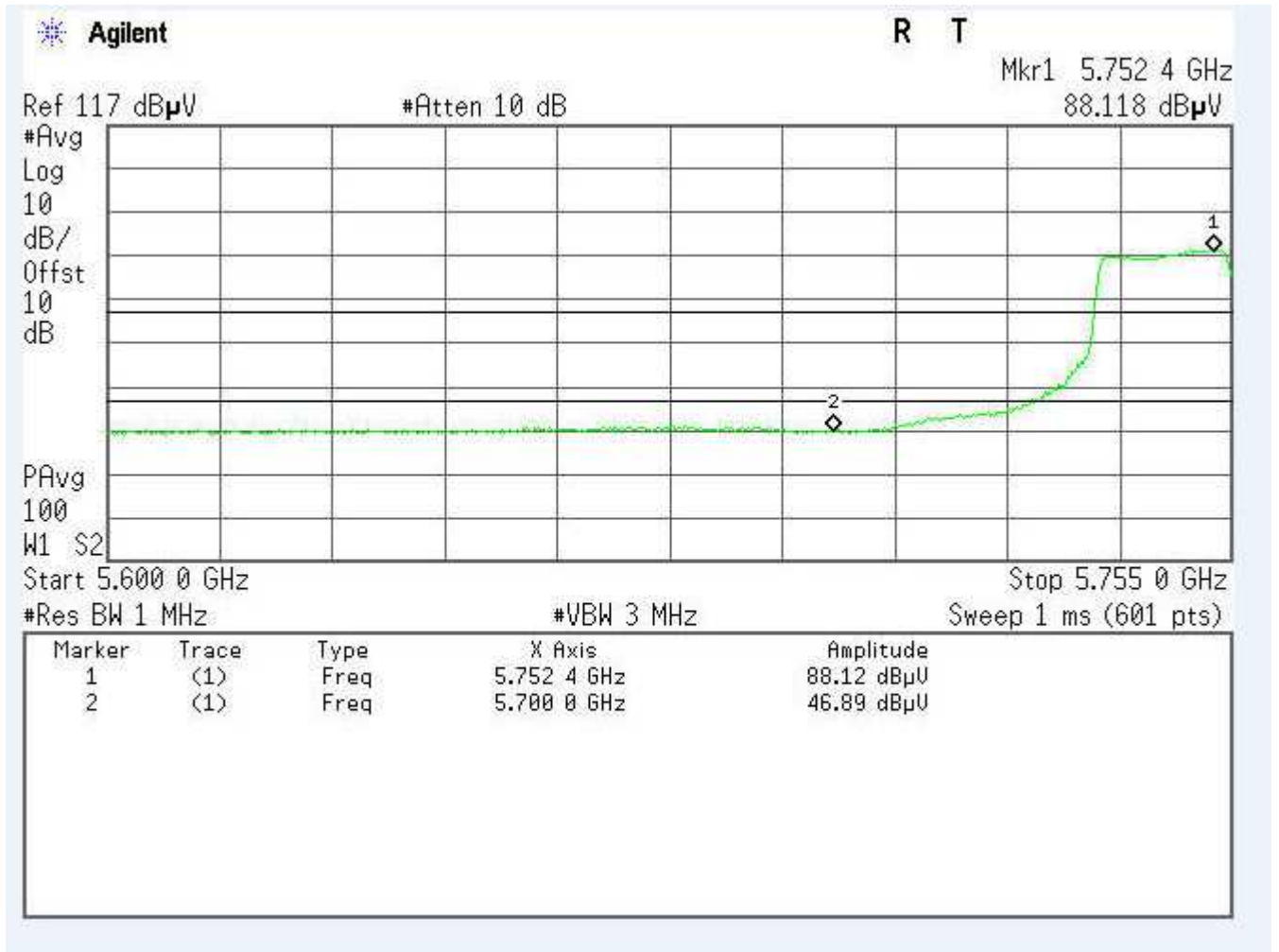
Detector mode: Peak



Band Edges (IEEE 802.11 HT n40 mode / 5755 MHz)

Detector mode: Average

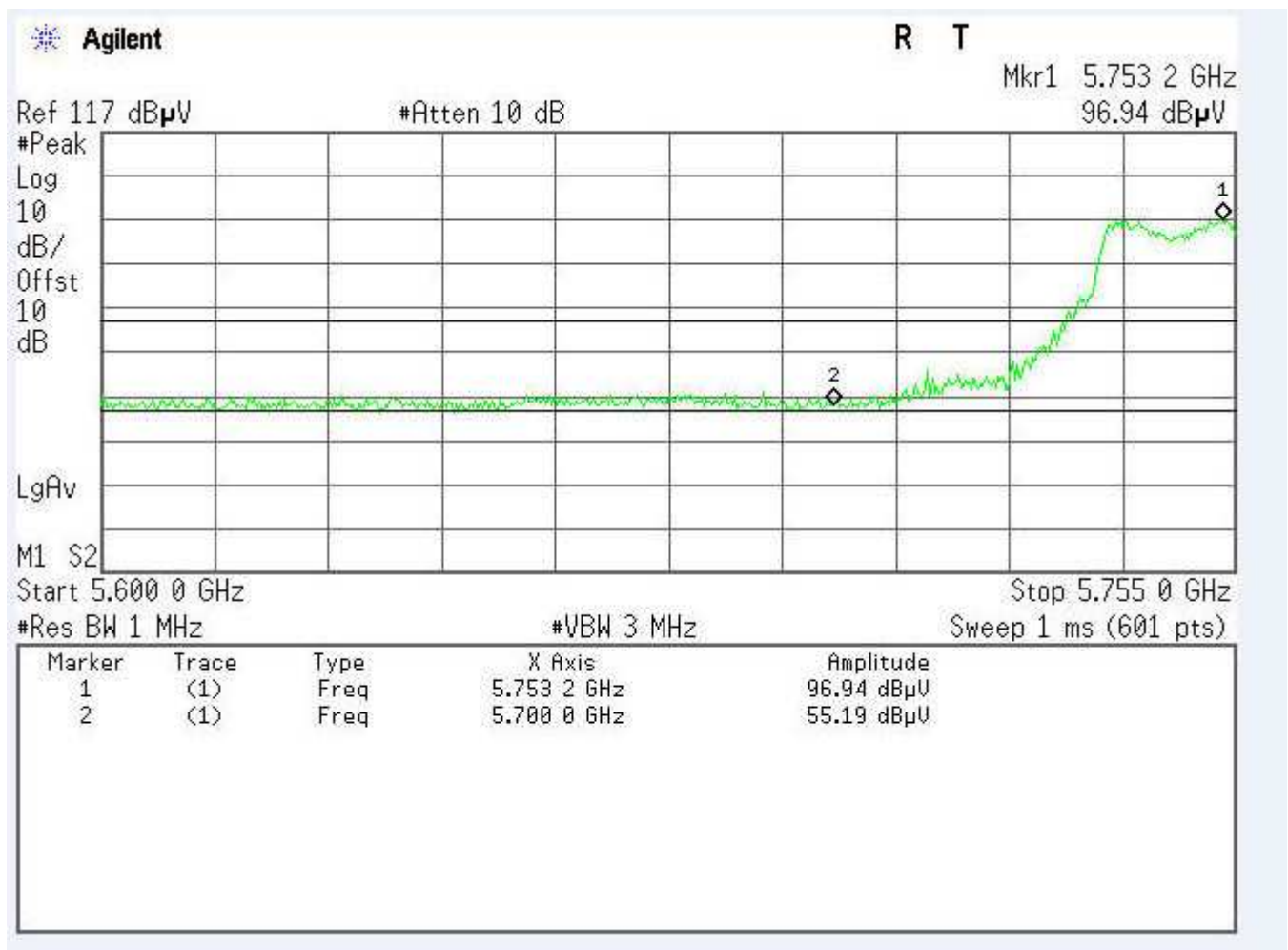
Polarity: Horizontal



Band Edges (IEEE 802.11 HT n40 mode / 5755 MHz)

Detector mode: Peak

Polarity: Vertical



Band Edges (IEEE 802.11 HT n40 mode / 5755 MHz)

Detector mode: Average

Polarity: Vertical

