FCC Test Report

Product Name	:	ASUS SRT-AC1900 Wireless Smart Router
Trade Name	:	ASUS
Model No.	:	SRT-AC1900
FCC ID.	:	MSQ-SRTAC1900

Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt	:	Feb. 25, 2016
Issued Date	:	Apr. 29, 2016
Report No.	:	1620424R-RFUSP56V00
Report Version	:	V1.0

Testing Laboratory
3024

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Test Report Certification

Issued Date : Apr. 29, 2016
Report No. : 1620424R-RFUSP56V00

Product Name	:	ASUS SRT-AC1900 Wireless Smart Router
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	MAINTEK Computer(Suzhou) Co.,Lrd.
Model No.	:	SRT-AC1900
FCC ID.	:	MSQ-SRTAC1900
EUT Voltage	:	AC 100-240V, 50-60Hz
Testing Voltage	:	AC 120V/60Hz
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart E Section 15.407: 2015 ANSI C63.10: 2009
Test Lab	:	QuieTek Hsin Chu Laboratory
Test Result	:	Complied

The test results relate only to the samples tested.
The test report shall not be reproduced except in full without the written approval of QuieTek Corporation.

Documented By :
(Carol Tsai / Senior Engineering Adm. Specialist)

Tested By :
(Bruno Tsai / Engineer)

Approved By :
(Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
1550110R-RFUSP28V00	V1.0	Initial issue of report	May 20, 2015
1560358R-RFUSP28V00	V1.0	The original project number is 1550110R that include BT and WLAN 5G (antenna H+V) function. This is variant report for class II change for below issue: 1)Turn on the zigbee and WLAN 2.4G function by software. 2)Add AUX antenna report. 3)Update the antenna photo on attachment.	Nov. 06, 2015
1560358R-RFUSP28V00-B	V1.0	Add Level 6's adapter (ADP-33AW). Add the test data of conducted and radiated emission (under 1 GHz).	Dec. 11, 2015
1620424R-RFUSP56V00	V1.0	Update WLAN 5G band 4 standard to FCC 15.407, and verify Power Density, Frequency Stability tested. The WLAN 2.4G data, please refer to the1560358R-RFUSP28V00-B.	Apr. 29, 2016

Laboratory Information

We, **QuieTek Corporation**, are an independent RF consultancy that was established the whole facility in our laboratories. The test facility has been accredited/accepted (audited or listed) by the following related bodies in compliance with ISO 17025 specified testing scopes:

Taiwan R.O.C.	**:**	**TAF, Accreditation Number: 3024**
USA	**:**	**FCC, Registration Number: 365520**
Canada	**:**	**IC, Submission No: 181665 / IC Registration Number: 4075C-4**

The related certificate for our laboratories about the test site and management system can be downloaded from QuieTek Corporation's Web Site:http://www.quietek.com/english/about/certificates.aspx?bval=5
The address and introduction of QuieTek Corporation's laboratories can be founded in our Web site : http://www.quietek.com/index_en.aspx
If you have any comments, Please don't hesitate to contact us. Our contact information is as below:

HsinChu Testing Laboratory:
No.75-2, 3rd Lin, Wangye Keng, Yonghxing Tsuen, Qionglin Shiang, Hsinchu County 307, Taiwan, R.O.C.
TEL:+886-3-592-8858 / FAX:+886-3-592-8859 E-Mail : service@quietek.com

LinKou Testing Laboratory:
No.5-22, Ruishukeng, Linkou Dist., New Taipei City 24451, Taiwan, R.O.C.
TEL : 886-2-8601-3788 / FAX : 886-2-8601-3789 E-Mail : service@quietek.com

TABLE OF CONTENTS

Description Page

1. General Information 6

1.1. EUT Description 6
1.2. Test Mode 13
1.3. Tested System Details 15
1.4. Configuration of tested System 15
1.5. EUT Exercise Software 16
1.6. Test Facility 17

2. Peak Power Spectrum Density 18

2.1. Test Equipment 18
2.2. Test Setup 18
2.3. Limits 19
2.4. Test Procedure 19
2.5. Uncertainty 19
2.6. Test Result 20

3. Frequency Stability 100

3.1. Test Equipment 100
3.2. Test Setup 100
3.3. Limits 100
3.4. Test Procedure 100
3.5. Uncertainty 100
3.6. Result 101

Attachment 1 143
Original Report 143

1. General Information

1.1. EUT Description

Product Name	ASUS SRT-AC1900 Wireless Smart Router	
Product Type	WLAN (3TX, 3RX)	
Trade Name	ASUS	
Model No.	SRT-AC1900	
	IEEE 802.11a/ IEEE 802.11n (20MHz) IEEE 802.11ac (20MHz)	5745~5825MHz / 5 Channels
	IEEE 802.11n (40MHz) IEEE 802.11ac (40MHz)	5755~5795MHz / 2 Channels
	IEEE 802.11ac (80MHz)	5775~5775MHz / 1 Channel
Type of Modulation	IEEE 802.11a/n/ac	Orthogonal Frequency Division Multiplexing
	IEEE 802.11a	6, 9, 18, 24, 36, 48,54Mbps
	IEEE 802.11n	Support a subset of the combination of GI, MCS 0~MCS 23 and bandwidth defined in 802.11n
	IEEE 802.11ac	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac
Antenna Type	Dipole and PIFA	

Antenna Gain:

	V0	V1	V2	H0	H1	H2	AUX	ZB	BT
5G-band1	4.58	4.87	4.29	5.04	5.37	4.68	4.40	X	X
5G-band2	4.65	5.10	4.59	5.04	5.35	4.28	4.40	X	X
5G-band3	4.93	4.78	5.67	5.00	4.84	4.96	2.92	X	X
5G-band4	4.23	4.70	5.07	5.55	4.55	5.11	3.95	X	X

Antenna array Gain:

	V0 V1 V2	V0 V1 H2	V0 H1 V2	V0 H1 H2	H0 V1 V2	H0 V1 H2	H0 H1 V2	H0,H1,H2
5G-band1	8.33	7.02	7.58	7.72	7.93	6.31	7.04	9.11
5G-band2	8.33	7.02	7.58	7.74	7.93	6.19	7.06	9.16
5G-band3	8.91	7.58	7.79	7.88	7.99	7.04	7.37	9.15
5G-band4	8.95	7.51	7.80	8.41	7.36	7.17	7.48	9.34

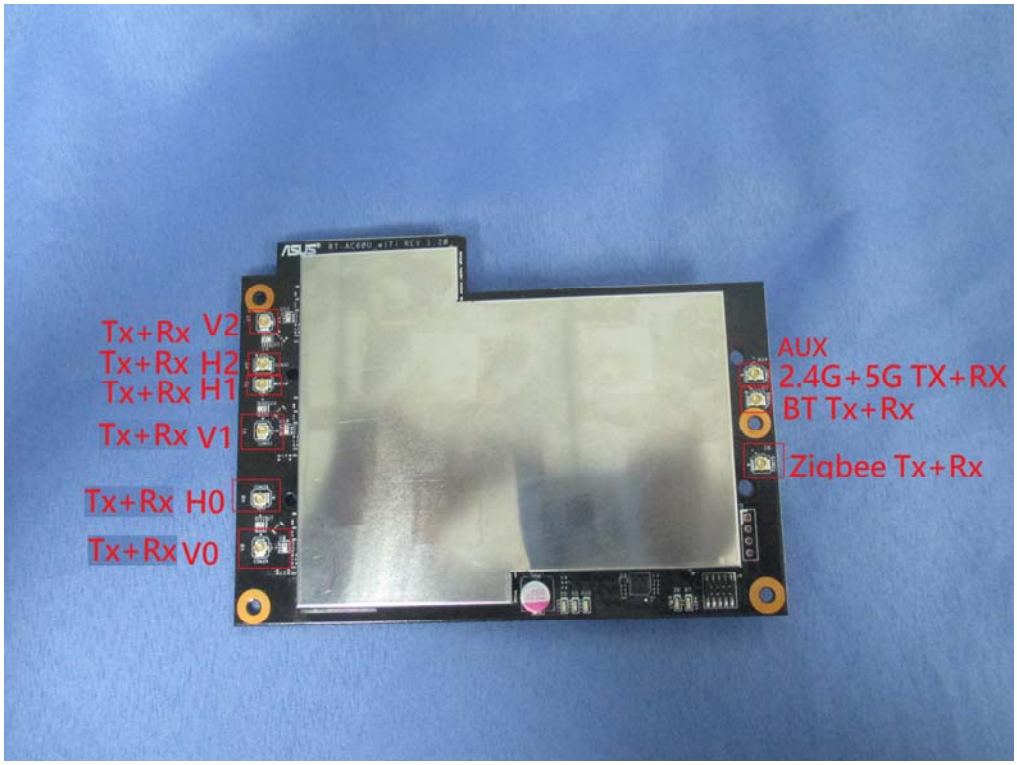
Component	
LAN Cable	Non-Shielded, 1.8m, 2 PCS
Power Adatper	PIE, AD891M21 I/P: 100-240V~ 50/60Hz 0.8A O/P : 19V⎓1.75A Cable Out: Non-Shielded, 1.8m
Power Adatper	I.T.E., AD890326 I/P: 100-240V~ 50/60Hz 0.8A O/P : 19V⎓1.75A Cable Out: Non-Shielded, 1.8m
Power Adatper	Delta, ADP-33AW I/P: 100-240V~1A 50-60Hz O/P : 19V⎓1.75A Cable Out: Non-Shielded, 1.8m
Power Adapter (Level 6)	Delta, ADP-33AW I/P: 100-240V~1A 50-60Hz O/P : 19V⎓1.75A Cable Out: Non-Shielded, 1.8m

ANT-TX / RX & Bandwidth

ANT-TX / RX	TX			RX		
Mode/ Channel Bandwidth	20MHz	40MHz	80MHz	20MHz	40MHz	80MHz
IEEE802.11a	✓			✓		
IEEE802.11n	✓	✓		✓	✓	
IEEE802.11ac	✓	✓	✓	✓	✓	✓

Wifi: 3TX / 3RX(H/V Antenna); Wifi: 1TX / 1RX(AUX Antenna);

BT 2.0: 1TX/1RX; BT4.0: 1TX/1RX; Zigbee: 1TX/1RX



IEEE 802.11n

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
0	BPSK	1/2	1	52	108	26	54	6.5	13.5	7.2	15.0
1	QPSK	1/2	2	104	216	52	108	13.0	27.0	14.4	30.0
2	QPSK	3/4	2	104	216	78	162	19.5	40.5	21.7	45.0
3	16-QAM	1/2	4	208	432	104	216	26.0	54.0	28.9	60.0
4	16-QAM	3/4	4	208	432	156	324	39.0	81.0	43.3	90.0
5	64-QAM	2/3	6	312	648	208	432	52.0	108.0	57.8	120.0
6	64-QAM	3/4	6	312	648	234	486	58.5	121.5	65.0	135.0
7	64-QAM	5/6	6	312	648	260	540	65.0	135.0	72.2	150.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 1 – MCS parameters for TX Antenna number = 1

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
8	BPSK	1/2	1	104	216	52	108	13.0	27.0	14.4	30.0
9	QPSK	1/2	2	208	432	104	216	26.0	54.0	28.9	60.0
10	QPSK	3/4	2	208	432	156	324	39.0	81.0	43.3	90.0
11	16-QAM	1/2	4	416	864	208	432	52.0	108.0	57.8	120.0
12	16-QAM	3/4	4	416	864	312	648	78.0	162.0	86.7	180.0
13	64-QAM	2/3	6	624	1296	416	864	104.0	216.0	115.6	240.0
14	64-QAM	3/4	6	624	1296	468	972	117.0	243.0	130.0	270.0
15	64-QAM	5/6	6	624	1296	520	1080	130.0	270.0	144.4	300.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 2 – MCS parameters for TX Antenna number = 2

MCS Index	Modulation	R	N_{BPSCS}	N_{CBPS}		N_{DBPS}		Data Rate(Mb/s)			
				20MHz	40MHz	20MHz	40MHz	800ns GI		400ns GI	
								20MHz	40MHz	20MHz	40MHz
16	BPSK	1/2	1	156	324	78	162	19.5	40.5	21.7	45.0
17	QPSK	1/2	2	312	648	156	324	39.0	81.0	43.3	90.0
18	QPSK	3/4	2	312	648	234	486	58.5	121.5	65.0	135.0
19	16-QAM	1/2	4	624	1296	312	648	78.0	162.0	86.7	180.0
20	16-QAM	3/4	4	624	1296	468	972	117.0	243.0	130.0	270.0
21	64-QAM	2/3	6	936	1944	624	1296	156.0	324.0	173.3	360.0
22	64-QAM	3/4	6	936	1944	702	1458	175.5	364.5	195.0	405.0
23	64-QAM	5/6	6	936	1944	780	1620	195.0	405.0	216.7	450.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 3– MCS parameters for TX Antenna number = 3

Symbol	Explanation
R	Code rate
N_{BPSC}	Number of coded bits per single carrier
N_{CBPS}	Number of coded bits per symbol
N_{DBPS}	Number of data bits per symbol
GI	guard interval

IEEE 802.11ac Data Rate

Spatial Streams (Note1)	MCS Index	Modulation type	Coding rate	Data Rate(Mb/s)							
				20 MHz		40 MHz		80 MHz		160 MHz	
				Guard Interval		Guard Interval		Guard Interval		Guard Interval	
				800ns	400ns	800ns	400ns	800ns	400ns	800ns	400ns
1	0	BPSK	1/2	6.5	7.2	13.5	15	29.3	32.5	58.5	65
	1	QPSK	1/2	13	14.4	27	30	58.5	65	117	130
	2	QPSK	3/4	19.5	21.7	40.5	45	87.8	97.5	175.5	195
	3	16-QAM	1/2	26	28.9	54	60	117	130	234	260
	4	16-QAM	3/4	39	43.3	81	90	175.5	195	351	390
	5	64-QAM	2/3	52	57.8	108	120	234	260	468	520
	6	64-QAM	3/4	58.5	65	121.5	135	263.3	292.5	526.5	585
	7	64-QAM	5/6	65	72.2	135	150	292.5	325	585	650
	8	256-QAM	3/4	78	86.7	162	180	351	390	702	780
	9	256-QAM	5/6	N/A	N/A	180	200	390	433.3	780	866.7
2	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4
3	0	BPSK	1/2	13	14.4	27	30	58.6	65	117	130
	1	QPSK	1/2	26	28.8	54	60	117	130	234	260
	2	QPSK	3/4	39	43.4	81	90	175.6	195	351	390
	3	16-QAM	1/2	52	57.8	108	120	234	260	468	520
	4	16-QAM	3/4	78	86.6	162	180	351	390	702	780
	5	64-QAM	2/3	104	115.6	216	240	468	520	936	1040
	6	64-QAM	3/4	117	130	243	270	526.6	585	1053	1170
	7	64-QAM	5/6	130	144.4	270	300	585	650	1170	1300
	8	256-QAM	3/4	156	173.4	324	360	702	780	1404	1560
	9	256-QAM	5/6	N/A	N/A	360	400	780	866.6	1560	1733.4

IEEE 802.11a & IEEE 802.11n (20MHz) & IEEE 802.11ac (20MHz)

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
149	5745MHz	153	5765MHz	157	5785MHz	161	5805MHz
165	5825MHz						

IEEE 802.11n (40MHz) & IEEE 802.11ac (40MHz)

Working Frequency of Each Channel			
Channel	Frequency	Channel	Frequency
151	5755MHz	159	5795MHz

IEEE 802.11ac (80MHz)

Working Frequency of Each Channel	
Channel	Frequency
151	5775 MHz

Note:

1. This device is an ASUS SRT-AC1900 Wireless Smart Router including 2.4G & 5GHz Wifi (H/V Antenna): b/g/a/n/ac (3x3)、2.4G& 5GHz Wifi (AUX Antenna): b/g/a/n/ac (1x1)、BT 2.0、BT4.0 and Zigbee transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart E Paragraph 15.407.
3. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. The 2.4G is performed according to the DTS Test Procedures old Rules.
5. This device has USB and Ethernet ports, which can be connected to computer. It is a Class B personal computer and peripheral. Its test report number is 1560358R-RFUSP01V00-C under part 15B with Declaration of Conformity letter.
6. The function of the 2.4GHz, 5.2GHz and 5.8GHz transmitting is measured and makes a test report of the report number: 1560358R-RFUSP28V00-C & 1560358R-RFUSP59V00-B & 1560358R-RFUSP59V00-C.
7. The function of the Zigbee transmitting is measured the test report of the number is 1560358R-RFUSP24V00-A.
8. The function of the BT2.0 and BT4.0 transmitting are measured and makes a test report of the report number: 1560358R-RFUSP01V00-D and 1560358R-RFUSP01V00-E.

1.2. Test Mode

QuieTek has verified the construction and function in typical operation. The preliminary tests were performed in different data rate, and to find the worst condition, which was shown in this test report. The following table is the final test mode.

TX	Mode 1: Tx- Horizontal Antenna (AD891M21) Mode 2: Tx- Vertical Antenna (AD891M21) Mode 3: Tx- Horizontal Antenna (AD890326) Mode 4: Tx- Vertical Antenna (AD890326) Mode 5: Tx- Horizontal Antenna (ADP-33AW) Mode 6: Tx- Vertical Antenna (ADP-33AW) Mode 7: Tx- Horizontal Antenna (ADP-33AW)(Level 6) Mode 8: Tx- Vertical Antenna (ADP-33AW)(Level 6)

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11ac(80MHz)	155	0+1+2	N/A
99 % & 26dB Bandwidth	a	149/ 157/ 165	0/1/2	N/A
	11n/ac (20MHz)	149/ 157/ 165	0/1/2	N/A
	11n/ac (40MHz)	151/ 159	0/1/2	N/A
	11ac (80MHz)	155	0/1/2	N/A
Peak Transmit Output	a	149/ 157/ 165	0+1+2	N/A
	11n/ac (20MHz)	149/ 157/ 165	0+1+2	N/A
	11n/ac (40MHz)	151/ 159	0+1+2	N/A
	11ac (80MHz)	155	0+1+2	N/A
Peak Power Spectrum Density	a	149/ 157/ 165	0+1+2	Complies
	11n/ac (20MHz)	149/ 157/ 165	0+1+2	Complies
	11n/ac (40MHz)	151/ 159	0+1+2	Complies
	11ac (80MHz)	155	0+1+2	Complies
Radiated Emission	a	149/ 157/ 165	0+1+2	N/A
	11n/ac (20MHz)	149/ 157/ 165	0+1+2	N/A
	11n/ac (40MHz)	151/ 159	0+1+2	N/A
	11ac (80MHz)	155	0+1+2	N/A
Band Edge	a	149/ 157/ 165	0+1+2	N/A
	11n/ac (20MHz)	149/ 157/ 165	0+1+2	N/A
	11n/ac (40MHz)	151/ 159	0+1+2	N/A
	11ac (80MHz)	155	0+1+2	N/A
RF antenna conducted test	a	149/ 157/ 165	0+1+2	N/A
	11n/ac (20MHz)	149/ 157/ 165	0+1+2	N/A
	11n/ac (40MHz)	151/ 159	0+1+2	N/A
	11ac (80MHz)	155	0+1+2	N/A
Frequency Stability	a	149/ 157/ 165	0+1+2	Complies
	11n/ac (20MHz)	149/ 157/ 165	0+1+2	Complies
	11n/ac (40MHz)	151/ 159	0+1+2	Complies
	11ac (80MHz)	155	0+1+2	Complies

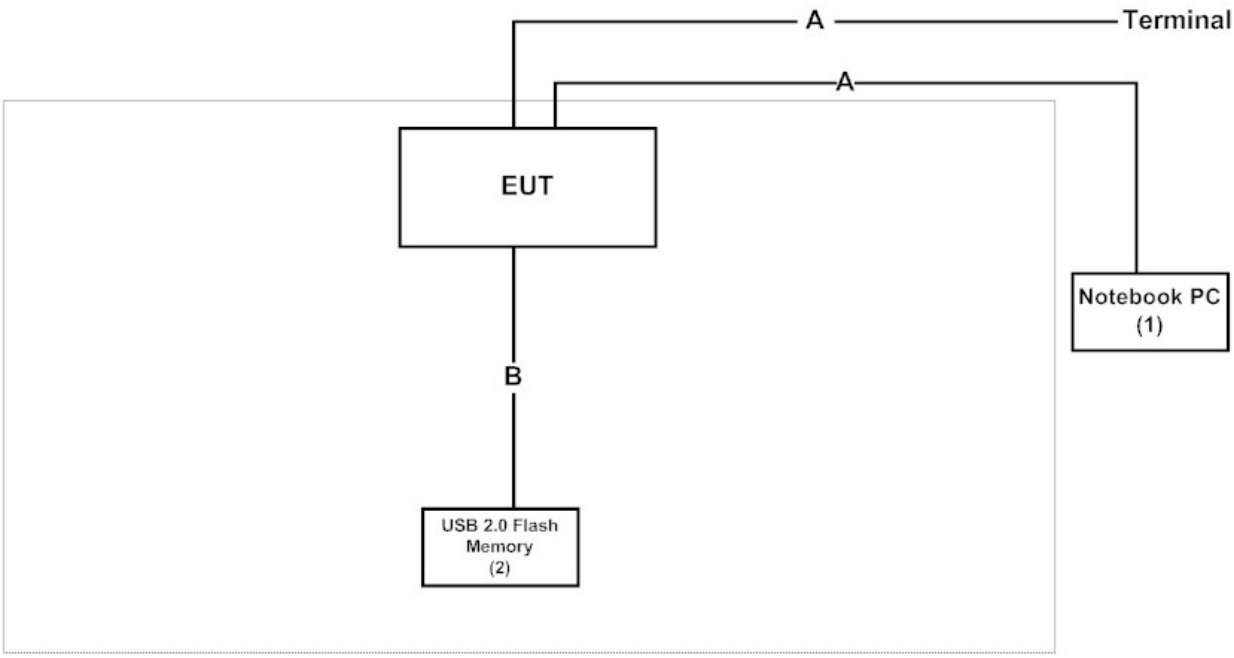
1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	DELL	Vostro3400	7F808N1	DoC	Non-Shielded, 1.8m
2	USB 2.0 Flash Memory	Apacer	AH223	N/A	DoC	--

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	LAN Cable	Non-Shielded, 2.0m, 2 Pcs
B	USB 2.0 Flash Memory Cable	Non-Shielded, 1.8m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the telnet command on the EUT.
3	Configure the test mode, the test channel, and the data rate.
4	Press “Start TX” to start the continuous transmitting.
5	Verify that the EUT works properly.

1.6. Test Facility

Ambient conditions in the laboratory:

Items	Test Item	Required (IEC 68-1)	Actual
Temperature (°C)	FCC PART 15 E 15.407 Peak Power Spectrum Density	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 E 15.407 Frequency Stability	15 - 35	25°C
Humidity (%RH)		25 - 75	45%RH
Barometric pressure (mbar)		860 - 1060	950-1000

2. Peak Power Spectrum Density

2.1. Test Equipment

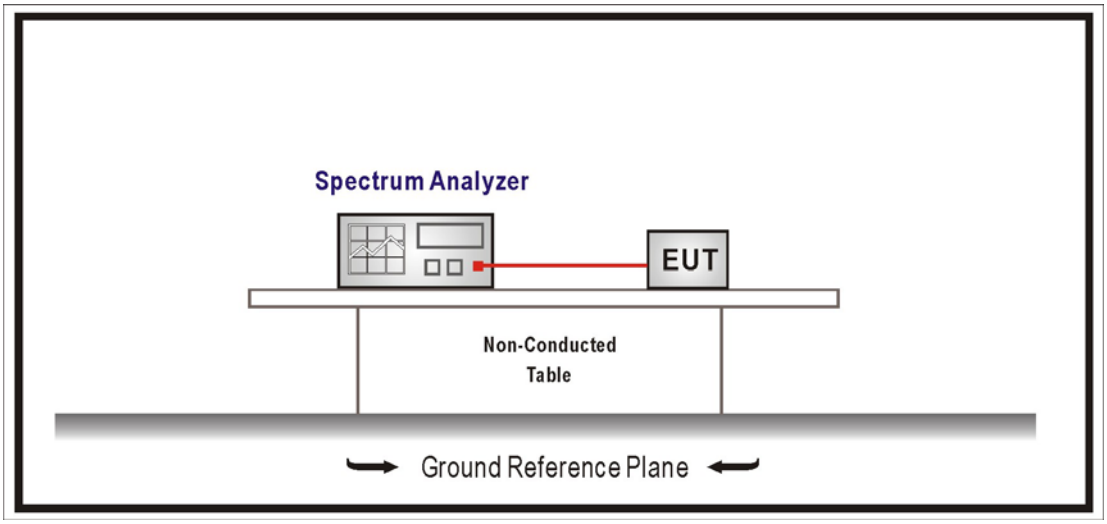
The following test equipments are used during the radiated emission tests:

Peak Power Spectrum Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2015/07/14

Note: All equipments that need to calibrate are with calibration period of 1 year.

2.2. Test Setup



2.3. Limits

1. For the band 5.15-5.25 GHz, the peak power spectral density shall not exceed 17 dBm in any 1MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
2. For client devices in the 5.15-5.25 GHz band, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi
3. For the band 5.25-5.35 GHz, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.
4. For the band 5.725-5.850 GHz, the peak power spectral density shall not exceed 30 dBm in any 500KHz band. If transmitting antenna of directional gain greater than 6 dBi are used, the peak power spectral density shall be reduced by the amount in dB that directional gain of the antenna exceeds 6 dBi.

2.4. Test Procedure

The EUT was setup to ANSI C63.10:2009; tested to U-NII test procedure of KDB 789033 D02 for compliance to FCC 47CFR Subpart E requirements.

For Band1 : Set RBW=1MHz, VBW=3MHz with RMS detector. The PPSD is the highest level found across the emission in any 1-MHz band after 100 sweeps of averaging.

For Band4 : Set RBW=500KHz, VBW=1.5MHz with RMS detector. The PPSD is the highest level found across the emission in any 500KHz band after 100 sweeps of averaging.

2.5. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB

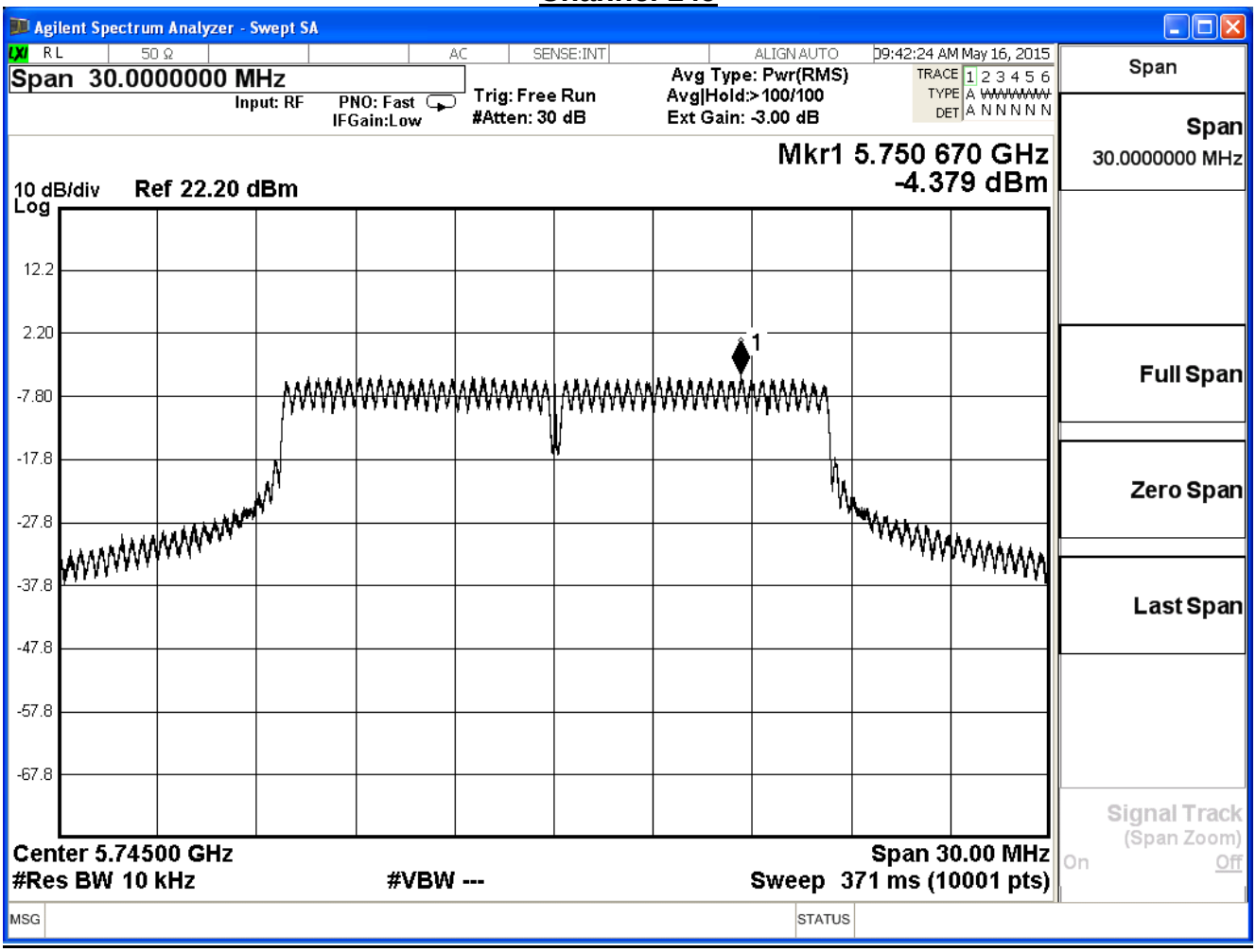
2.6. Test Result

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

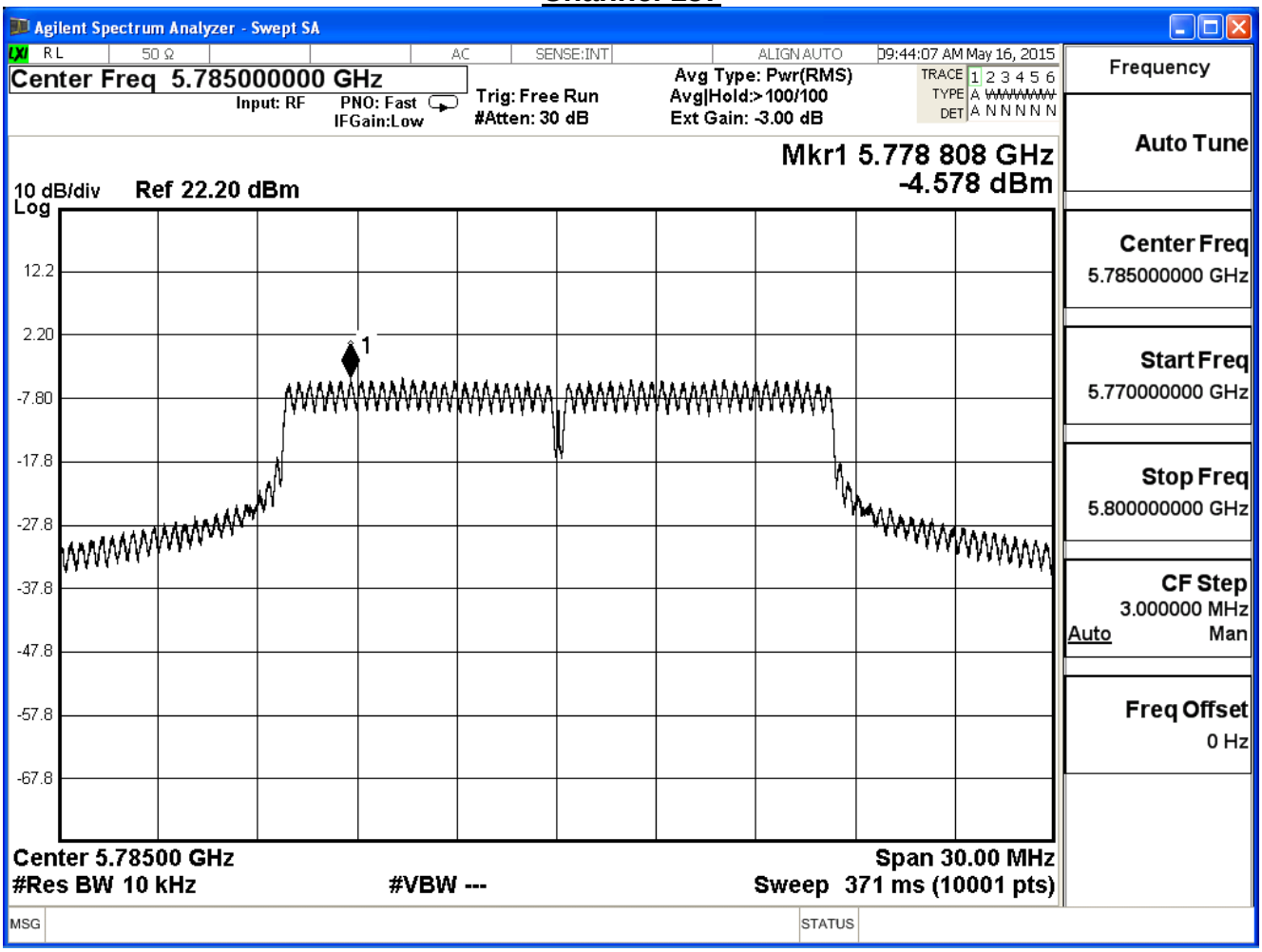
IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-4.38	12.61	≦30
157	5785	-4.58	12.41	≦30
165	5825	-4.13	12.86	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

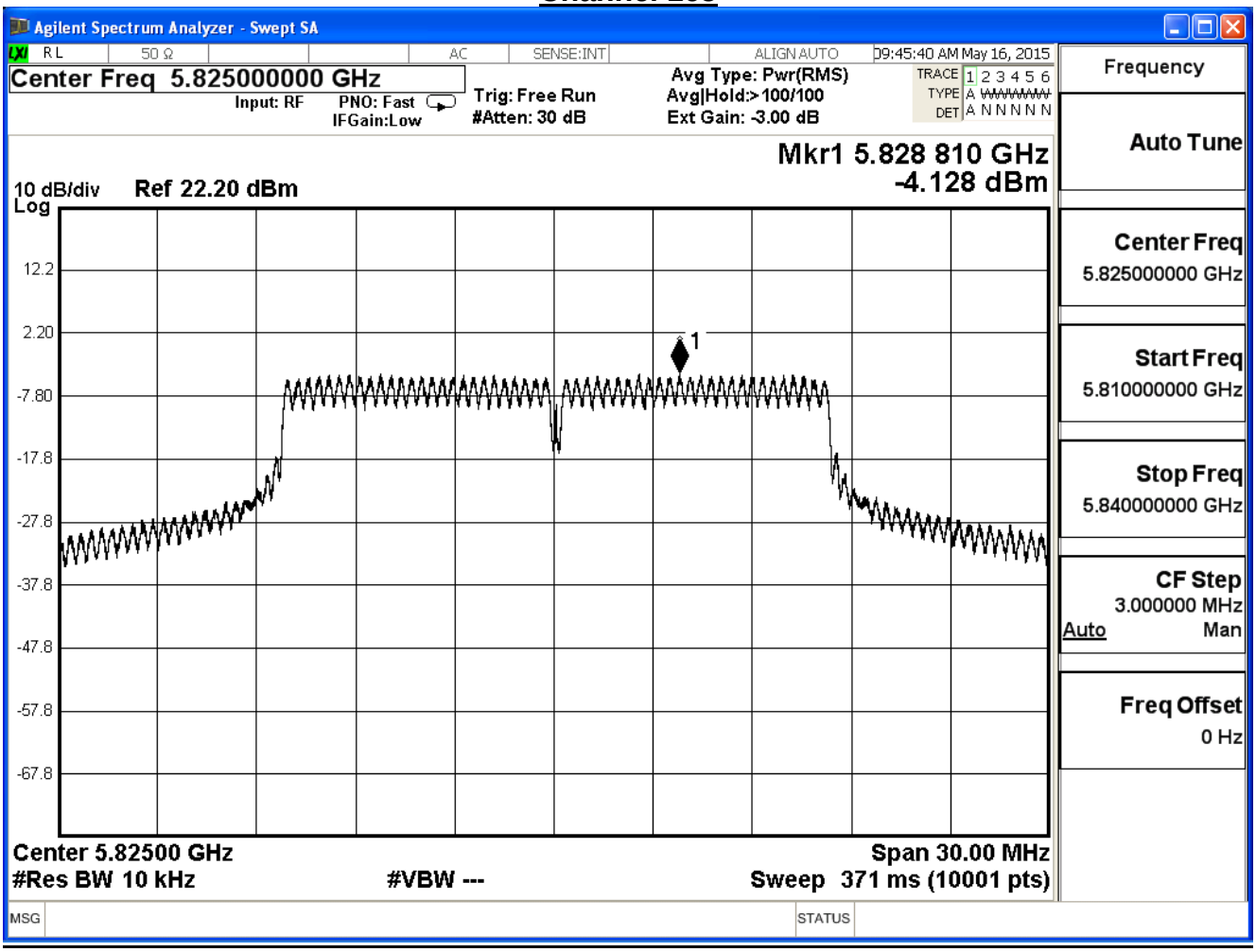
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:42:24 AM May 16, 2015
Span 30.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.750 670 GHz
-4.379 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Span
Span
30.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:44:07 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.778 808 GHz
-4.578 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:45:40 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.828 810 GHz
-4.128 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

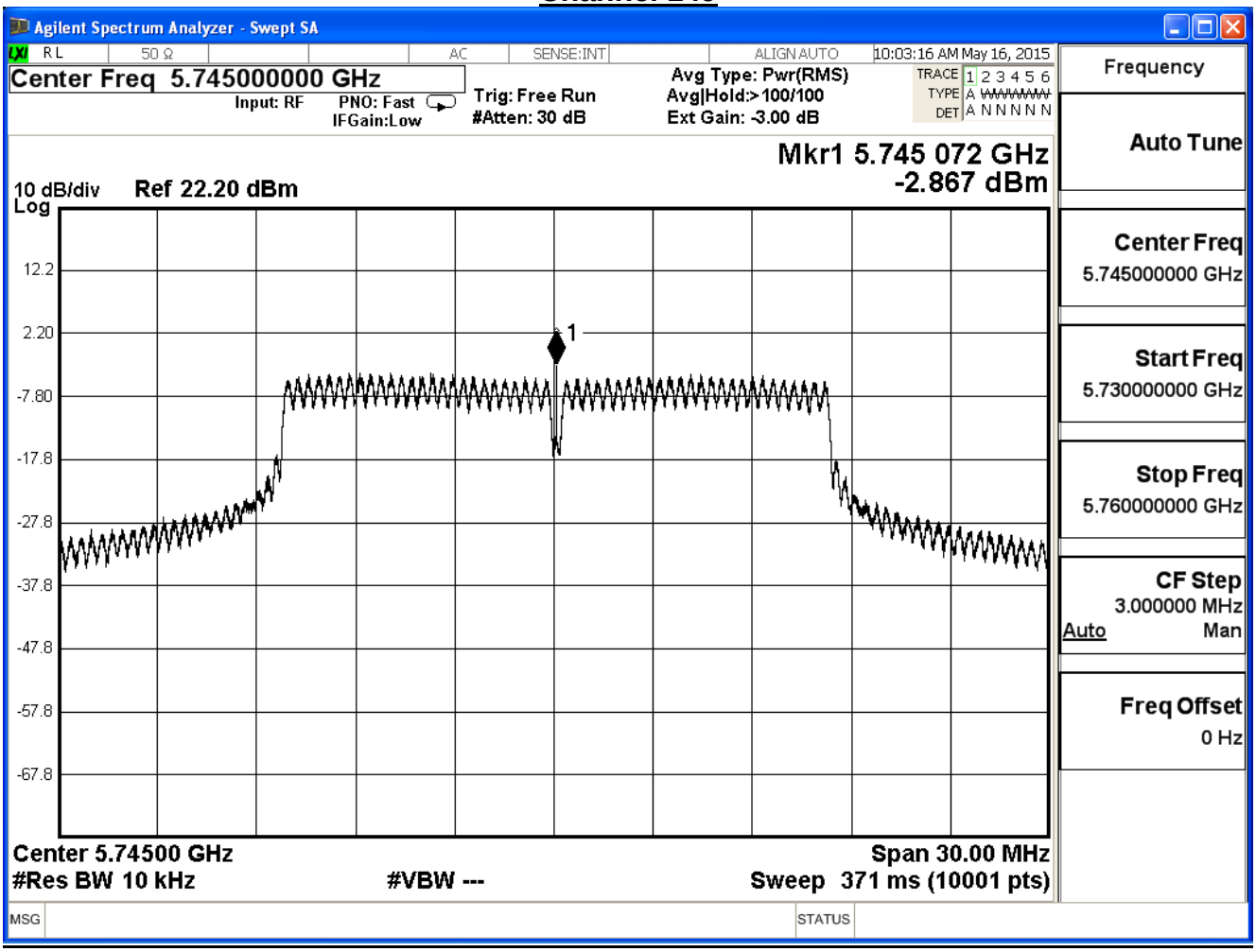
Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE 802.11a (ANT 1)

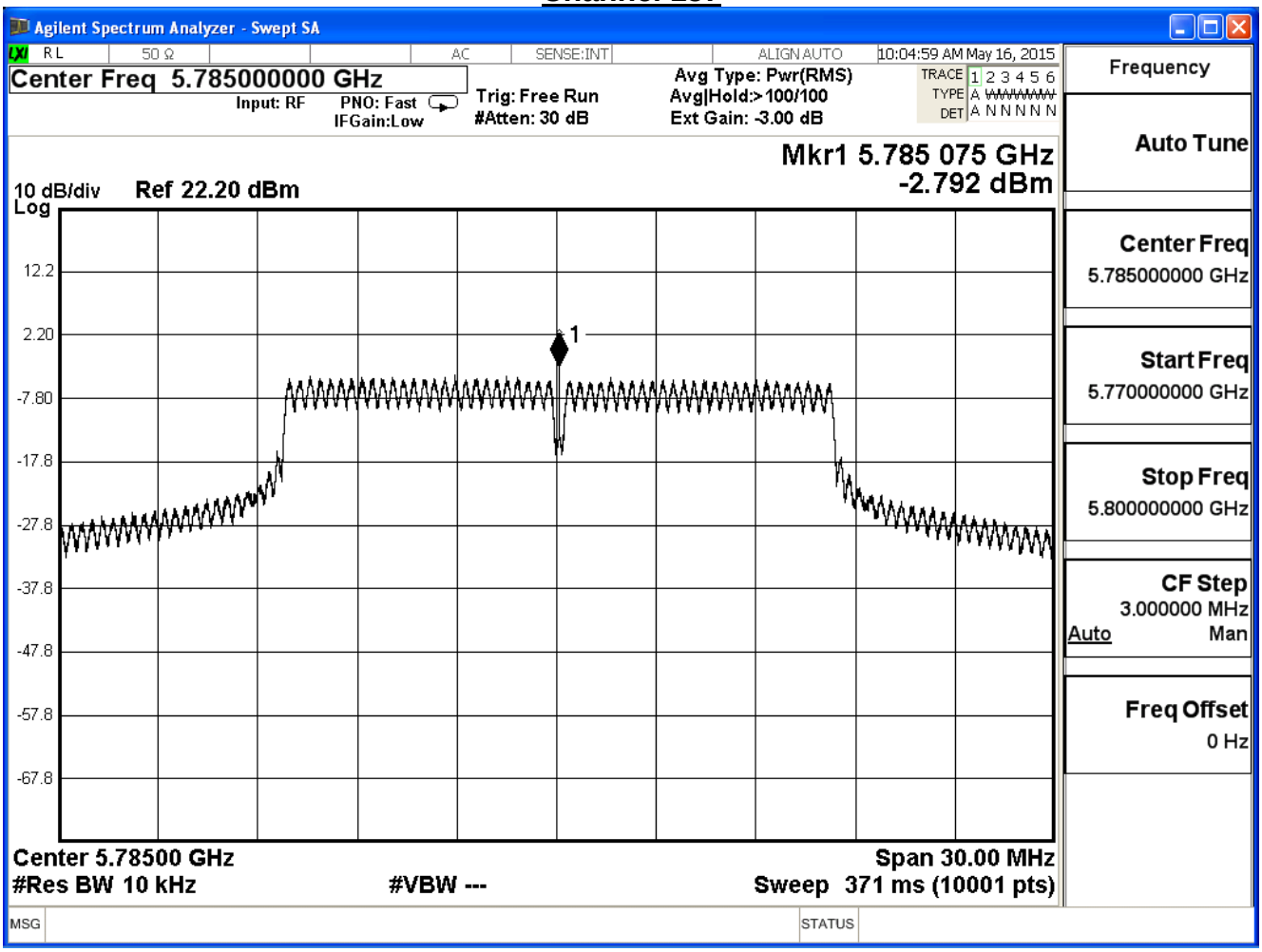
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-2.87	14.12	≦30
157	5785	-2.79	14.20	≦30
165	5825	-3.87	13.12	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

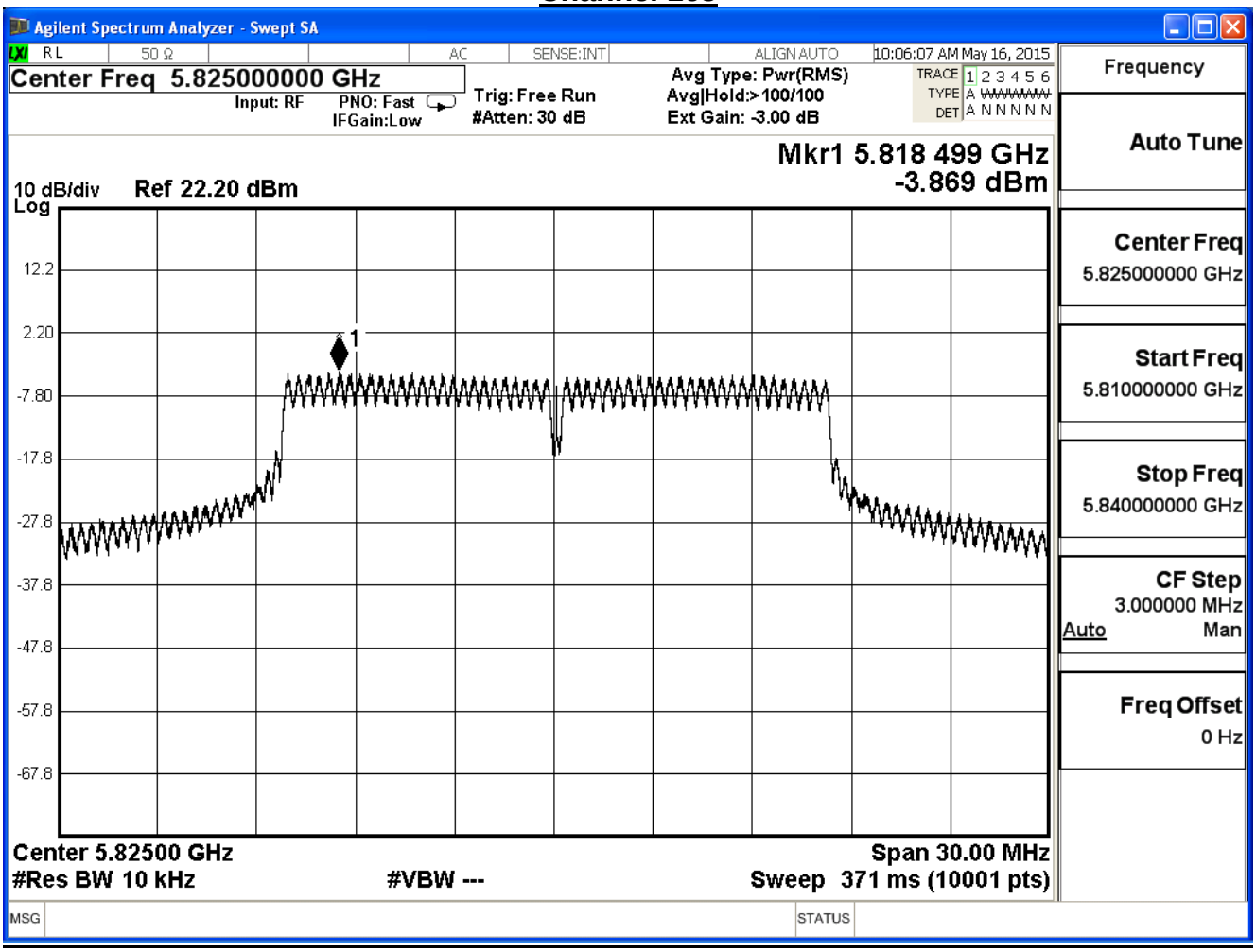
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:03:16 AM May 16, 2015
Center Freq 5.745000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.745 072 GHz
-2.867 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.745000000 GHz
Start Freq
5.730000000 GHz
Stop Freq
5.760000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:04:59 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.785 075 GHz
-2.792 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165

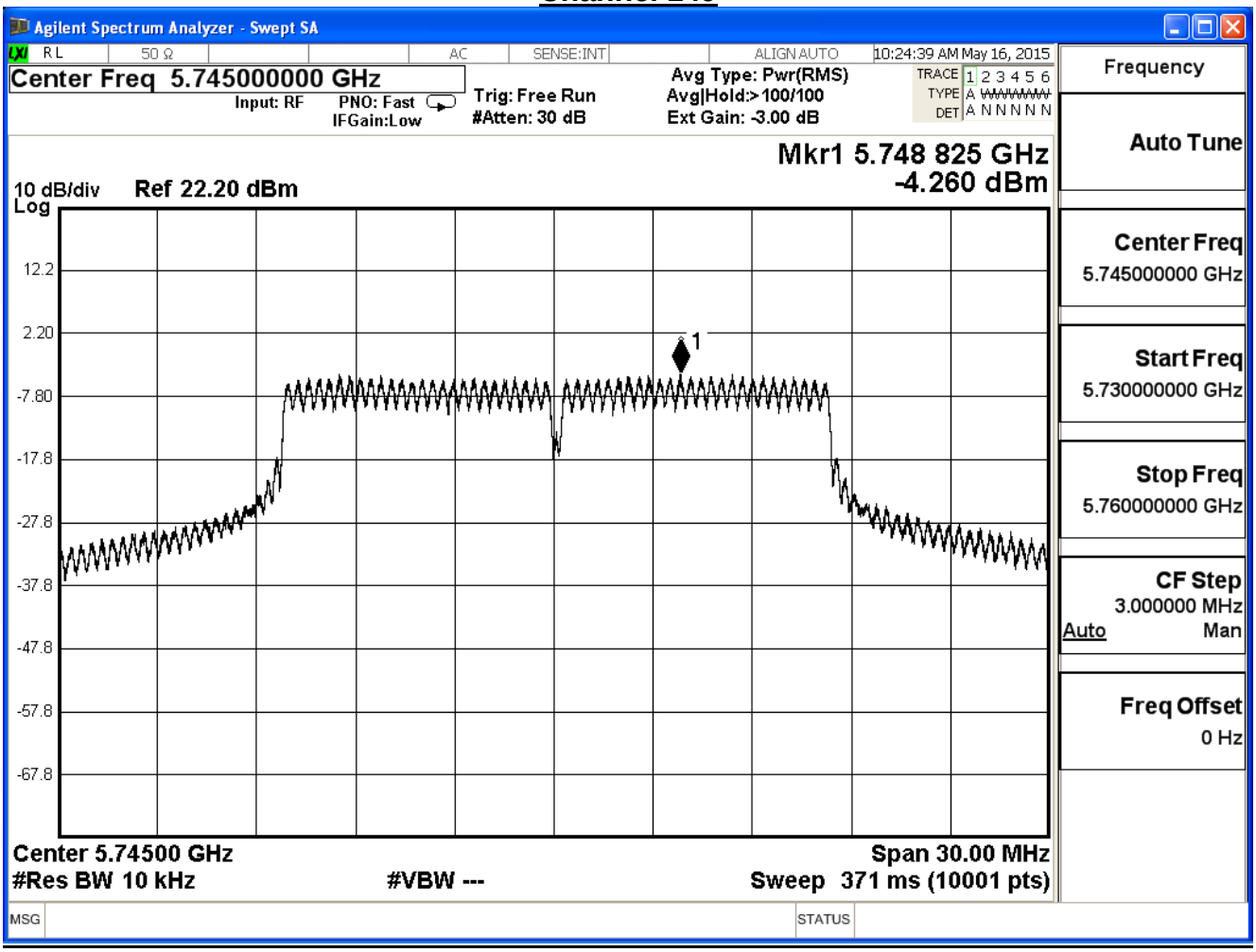

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:06:07 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.818 499 GHz
-3.869 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

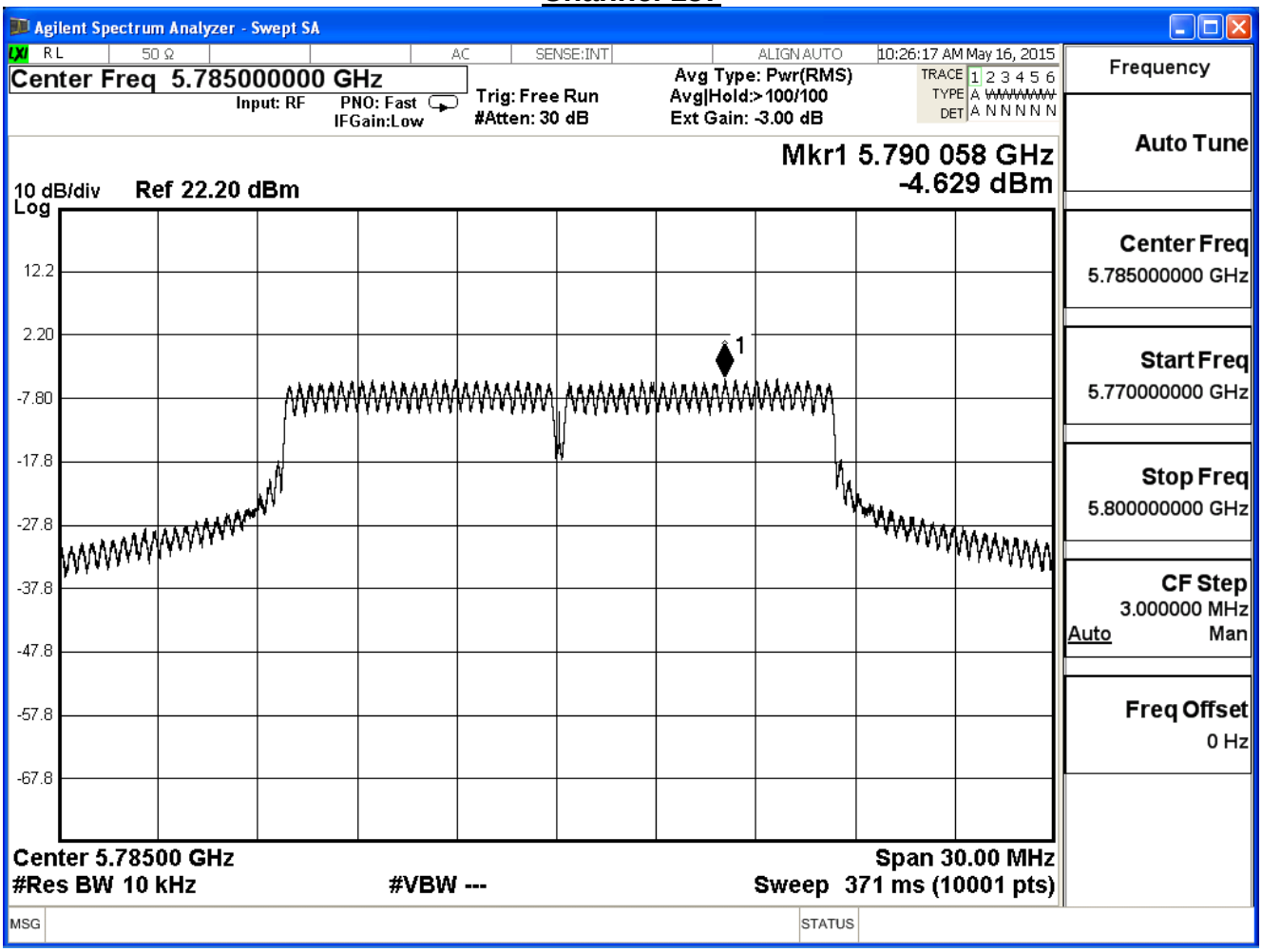
IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-4.26	12.73	≦30
157	5785	-4.63	12.36	≦30
165	5825	-4.65	12.34	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

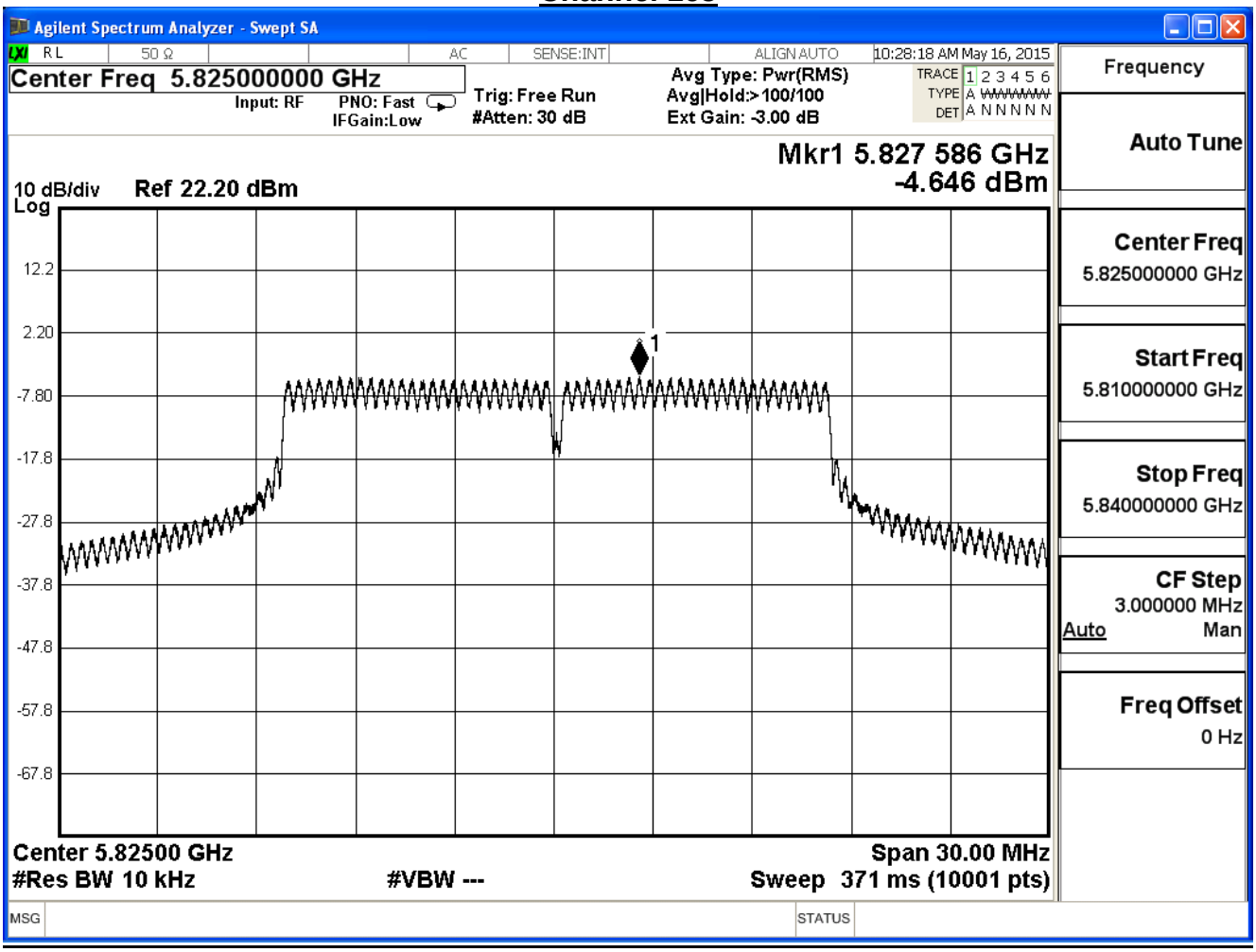
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:24:39 AM May 16, 2015
Center Freq 5.745000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.748 825 GHz
-4.260 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.745000000 GHz
Start Freq
5.730000000 GHz
Stop Freq
5.760000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:26:17 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.790 058 GHz
-4.629 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:28:18 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A
DET A N N N N N
Mkr1 5.827 586 GHz
-4.646 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

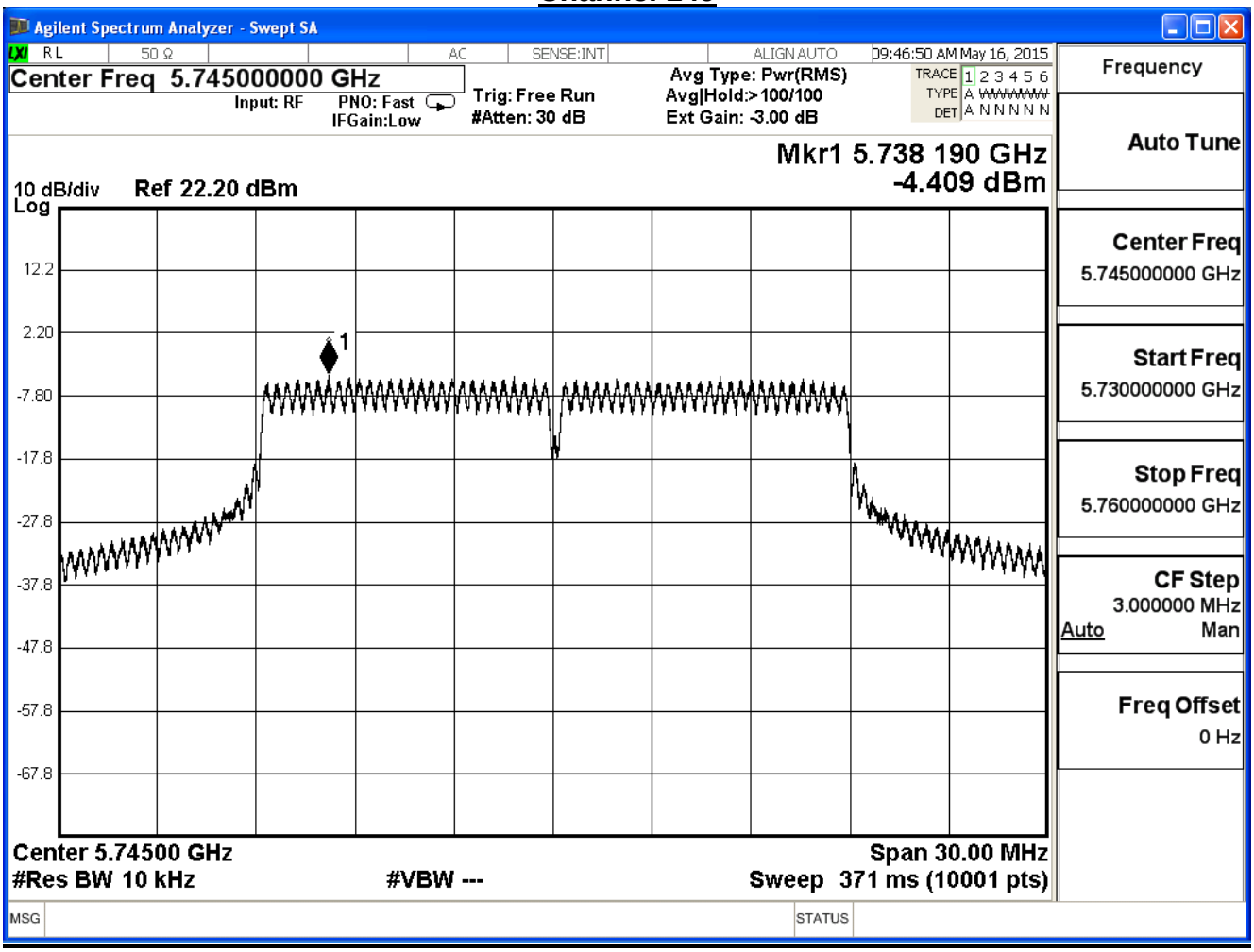
IEEE 802.11a (ANT 0+1+2)			
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	17.98	≦30
157	5785	17.85	≦30
165	5825	17.56	≦30

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

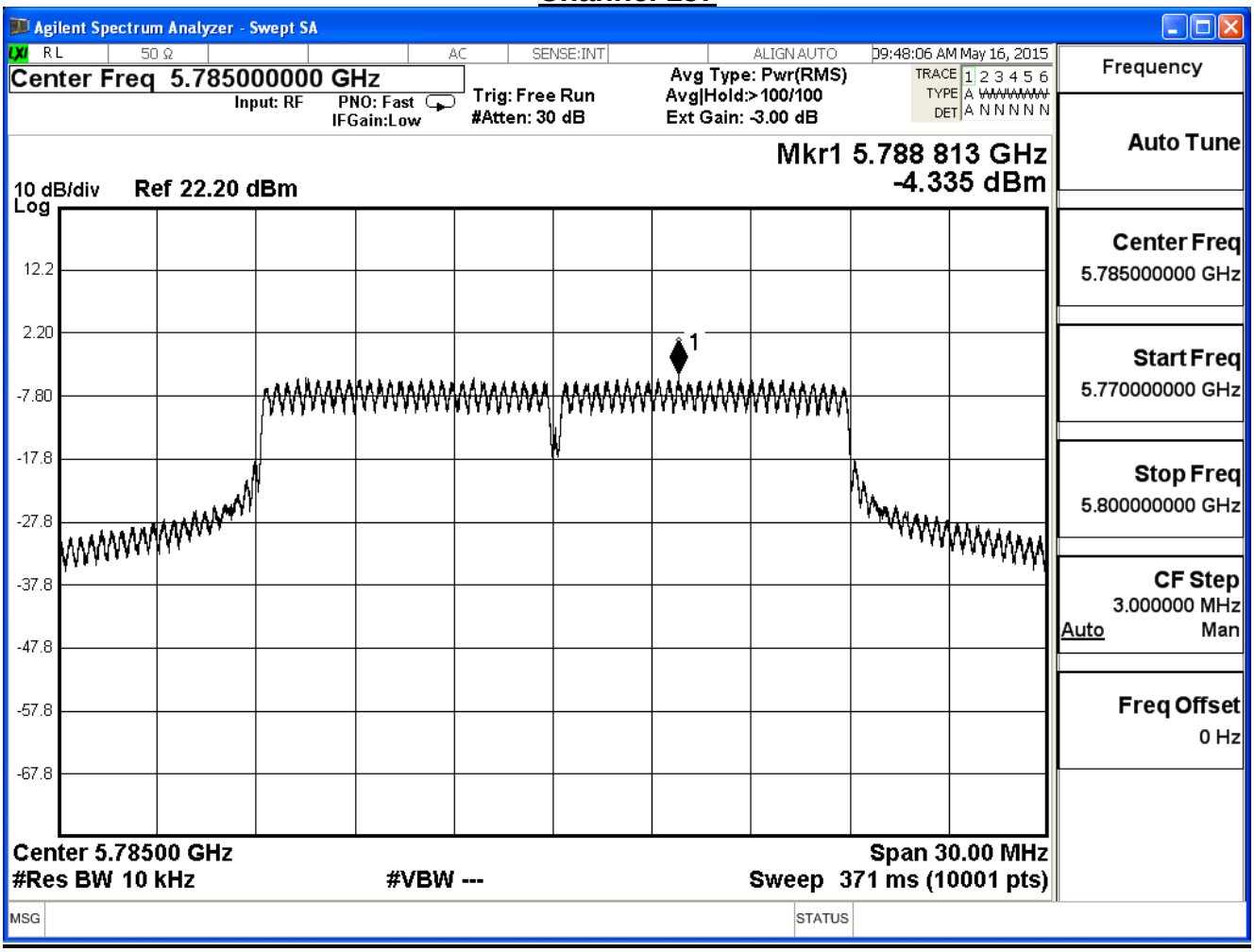
IEEE802.11n_20MHz_(ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-4.41	12.58	≦30
157	5785	-4.34	12.65	≦30
165	5825	-4.23	12.76	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

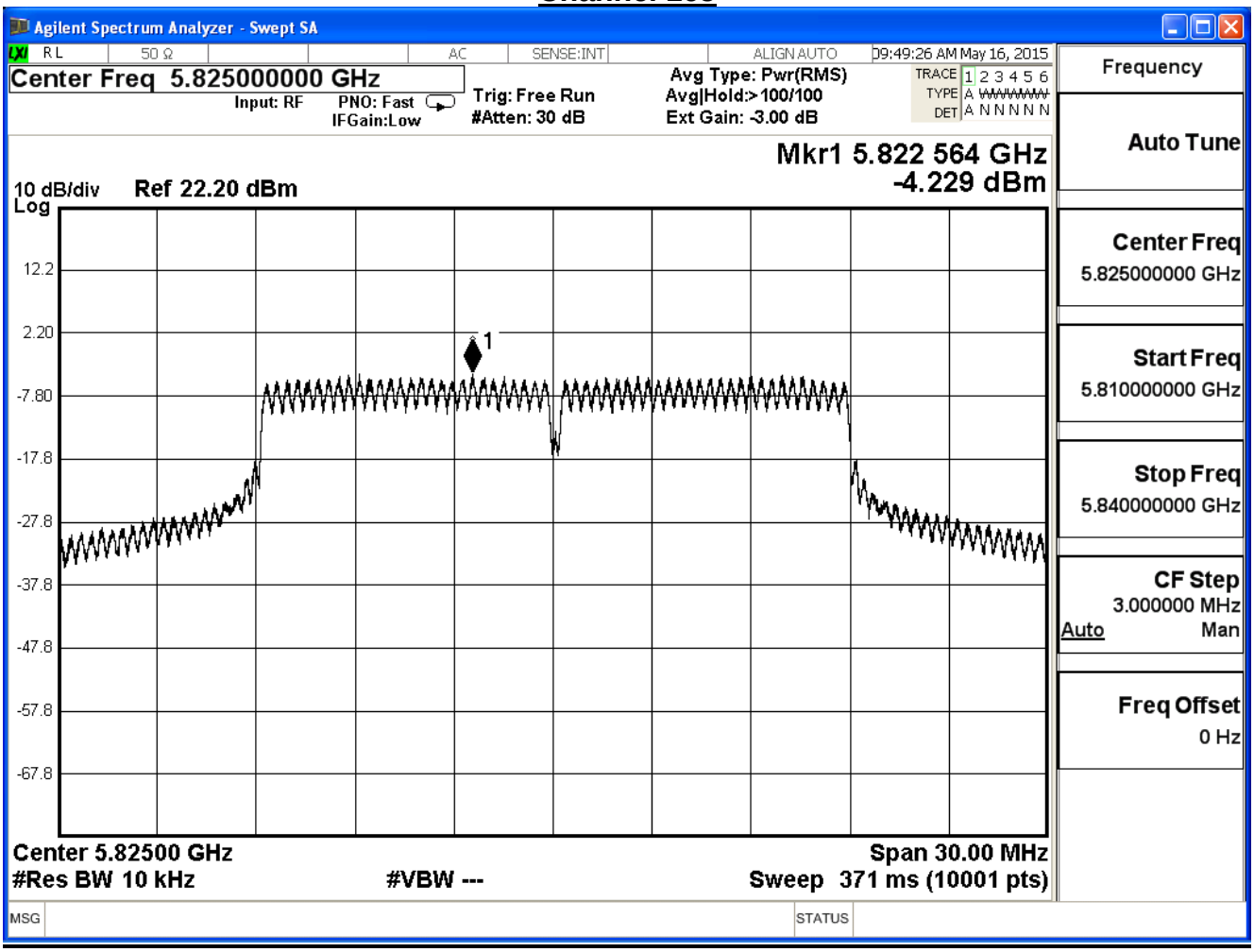
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:46:50 AM May 16, 2015
Center Freq 5.745000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.738 190 GHz
-4.409 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.745000000 GHz
Start Freq
5.730000000 GHz
Stop Freq
5.760000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:48:06 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.788 813 GHz
-4.335 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165

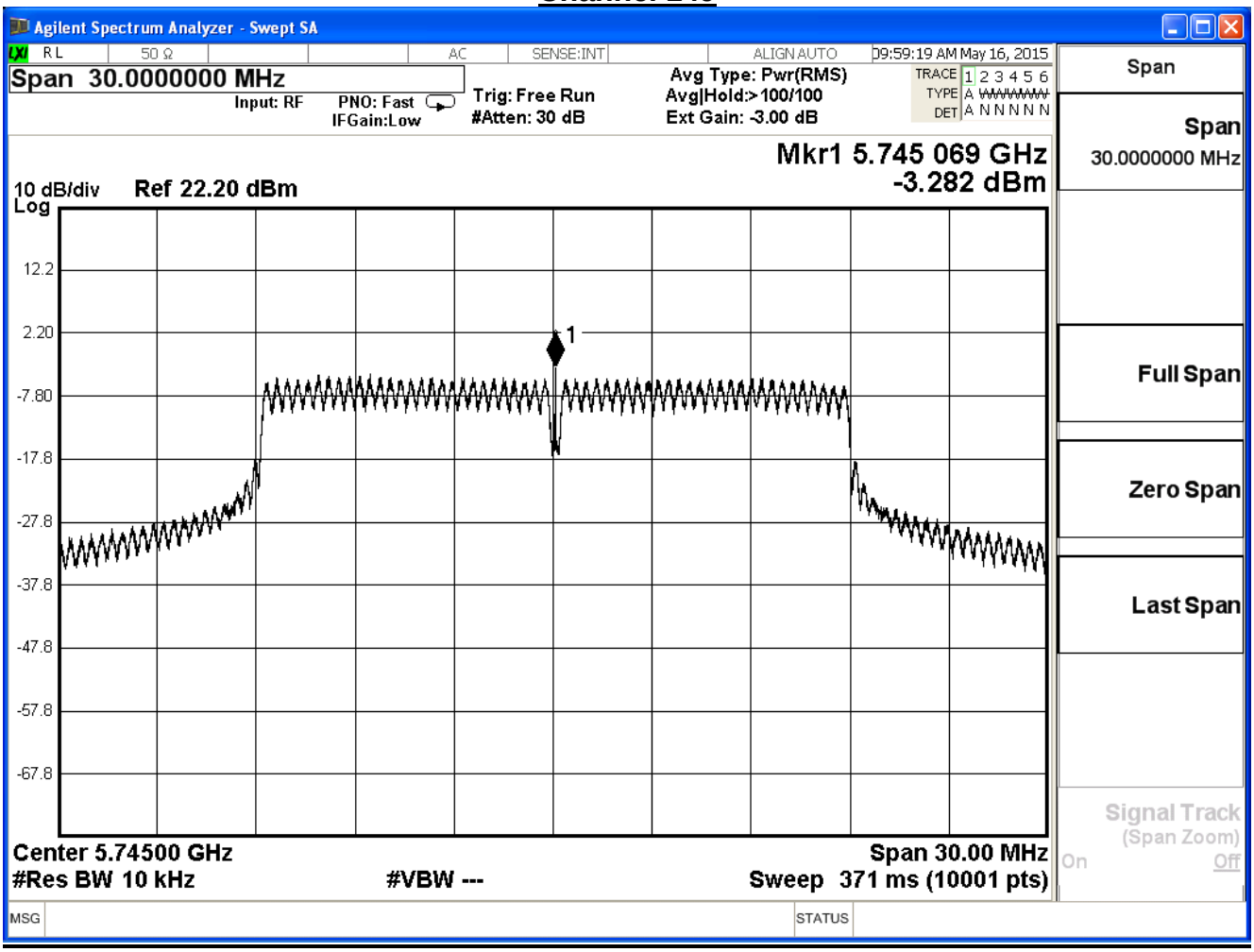

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:49:26 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.822 564 GHz
-4.229 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

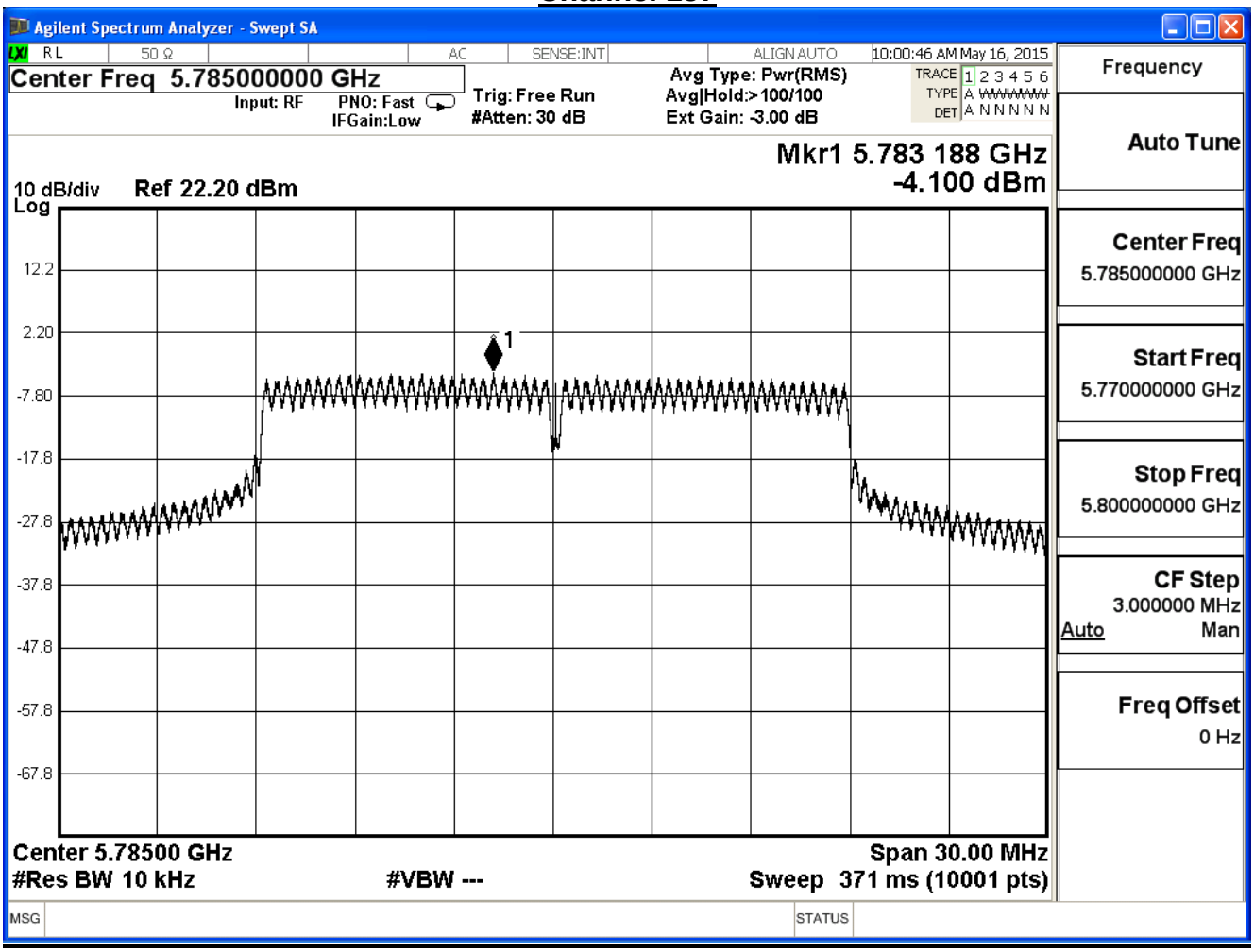
IEEE802.11n_20MHz_(ANT 1)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-3.28	13.71	≦30
157	5785	-4.10	12.89	≦30
165	5825	-1.62	15.37	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

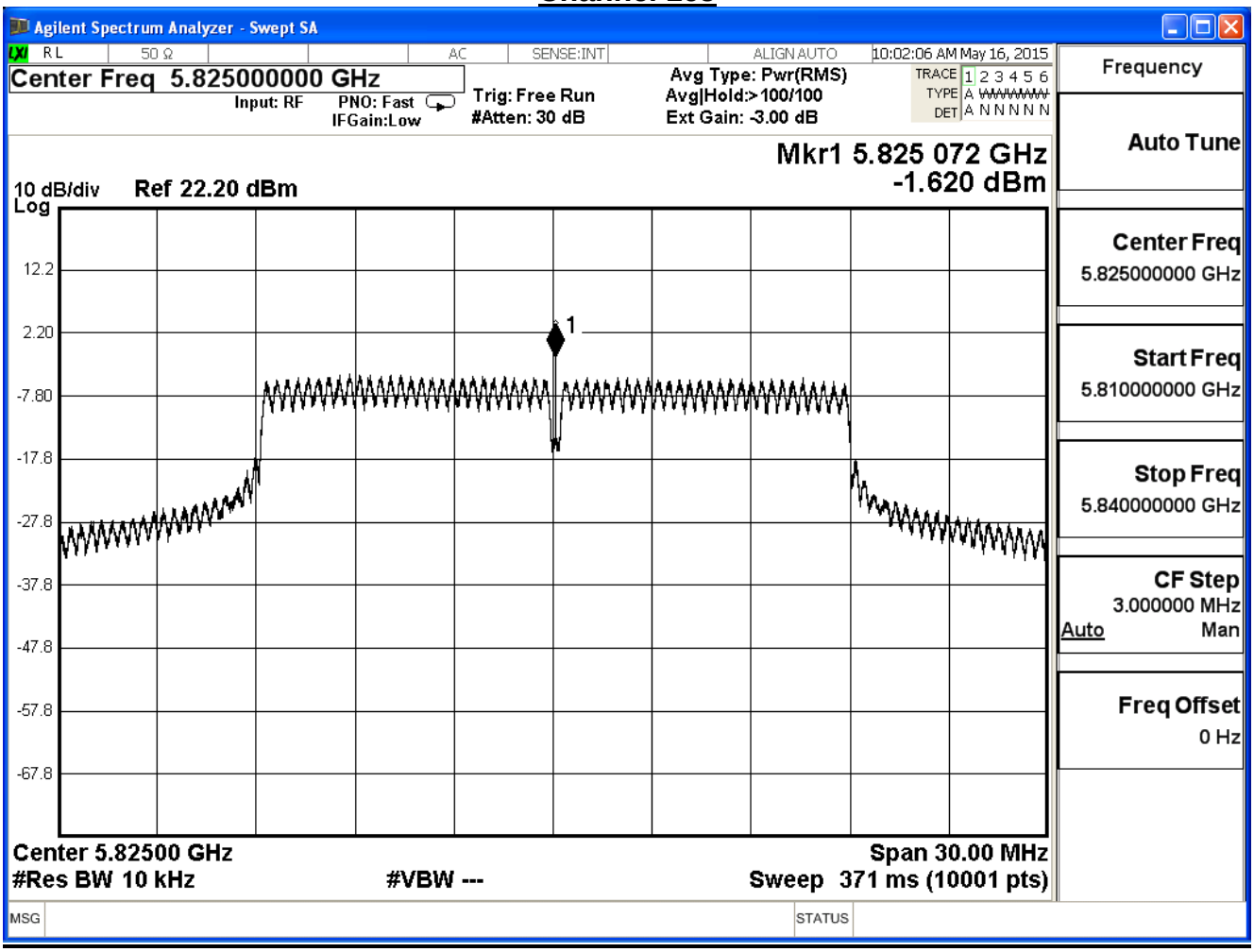
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:59:19 AM May 16, 2015
Span 30.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.745 069 GHz
-3.282 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Span
Span
30.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:00:46 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.783 188 GHz
-4.100 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165

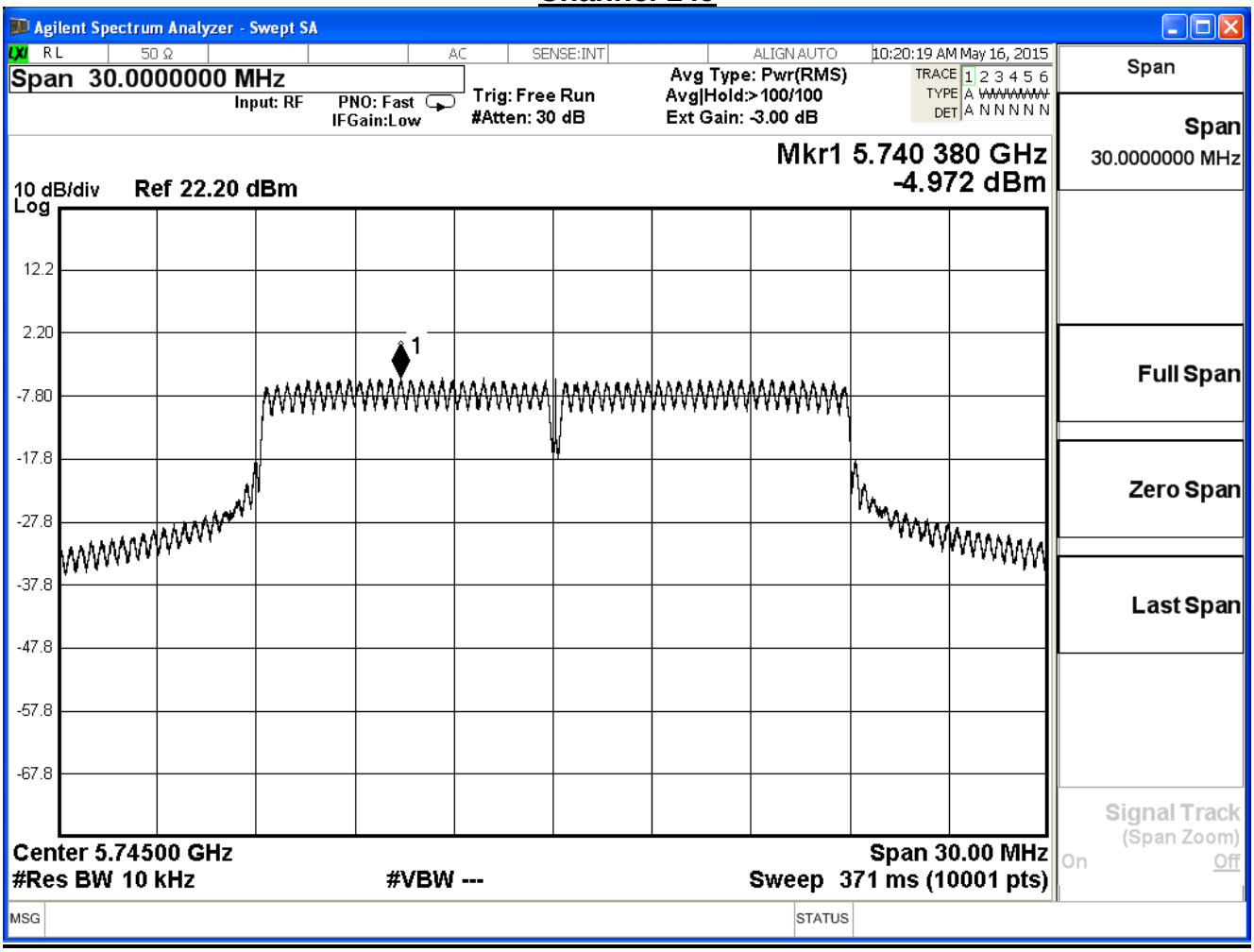

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:02:06 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.825 072 GHz
-1.620 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

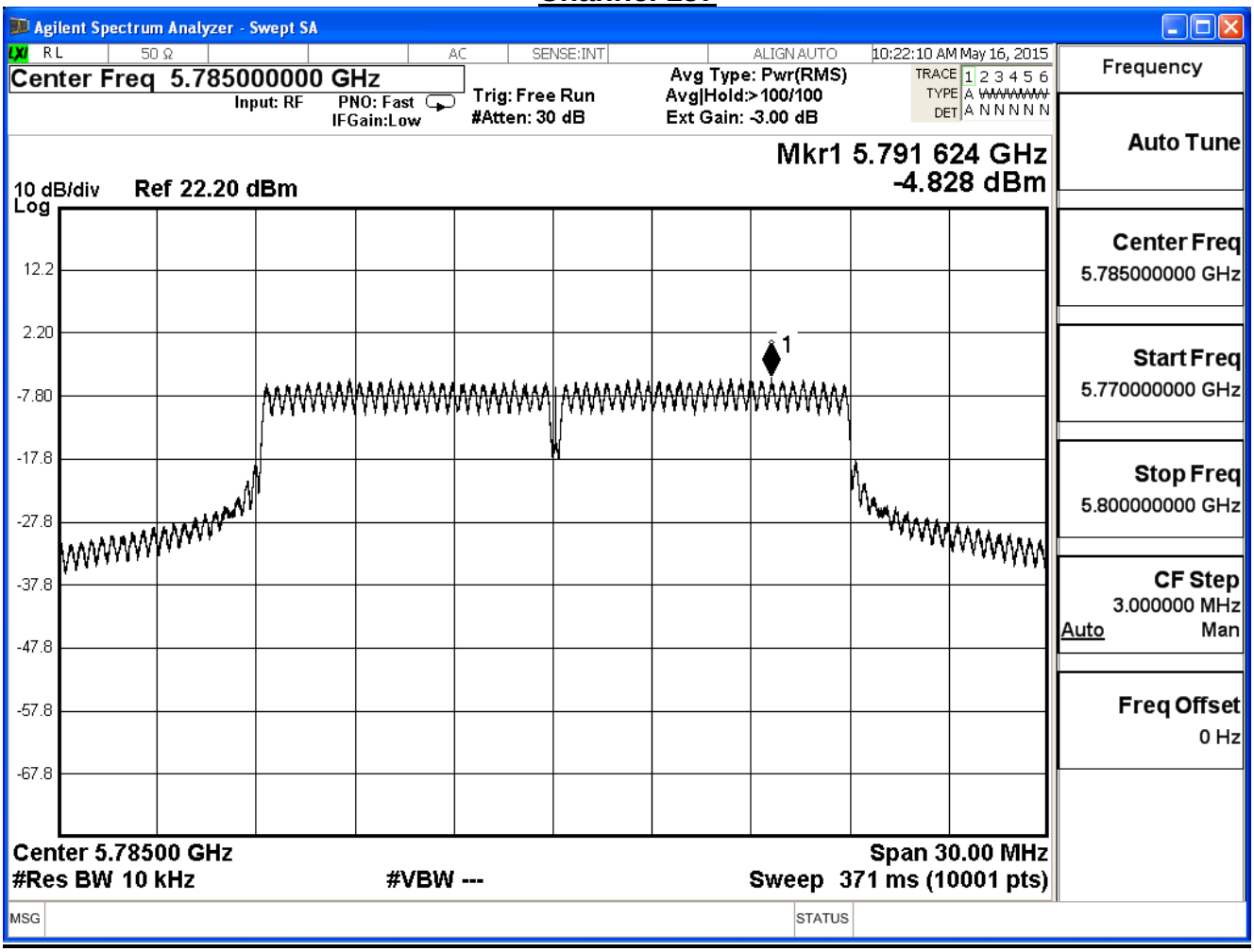
IEEE802.11n_20MHz_(ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-4.97	12.02	≦30
157	5785	-4.83	12.16	≦30
165	5825	-4.82	12.17	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

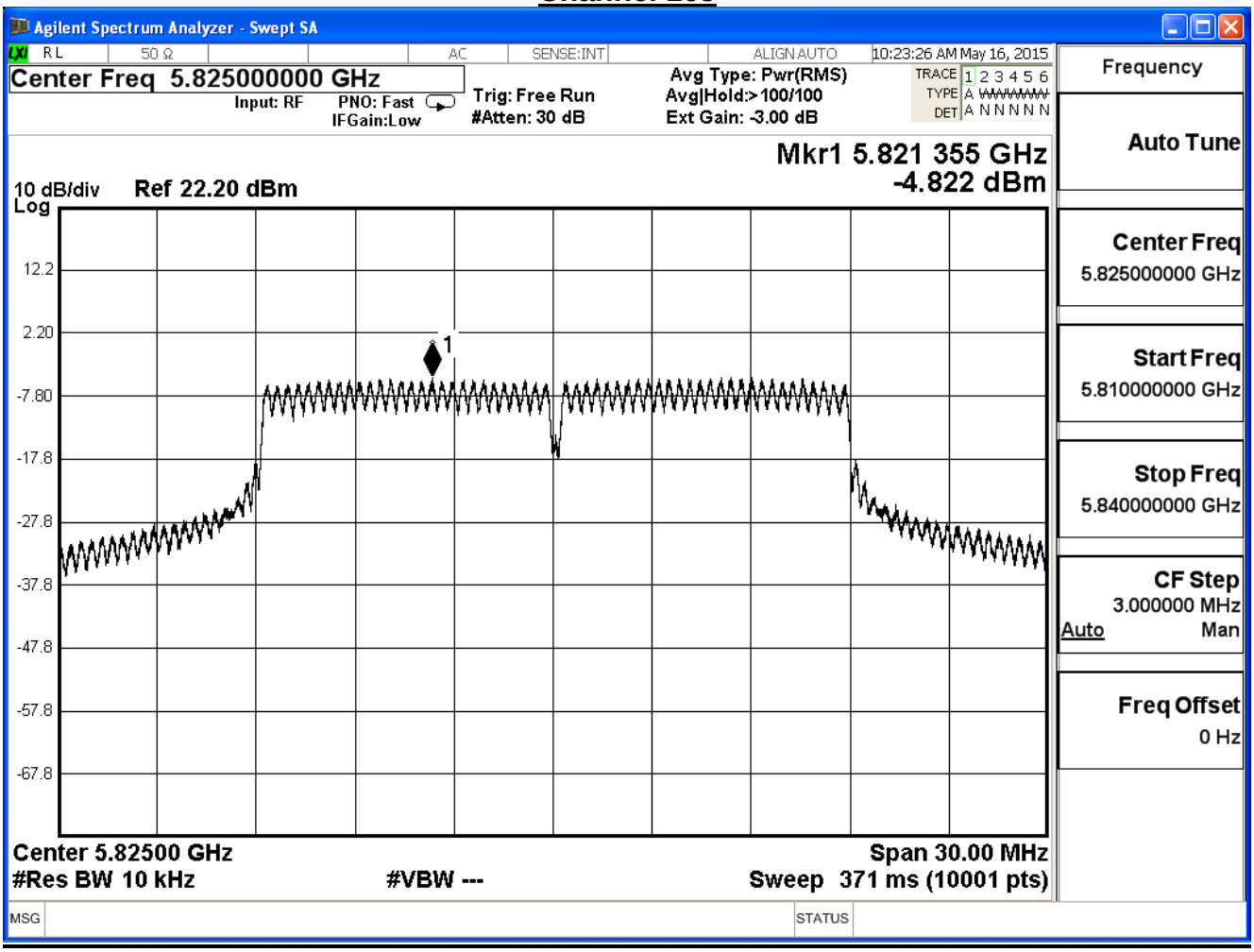
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:20:19 AM May 16, 2015
Span 30.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.740 380 GHz
-4.972 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Span
Span
30.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:22:10 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.791 624 GHz
-4.828 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:23:26 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.821 355 GHz
-4.822 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE802.11n 20MHz(ANT 0+1+2)

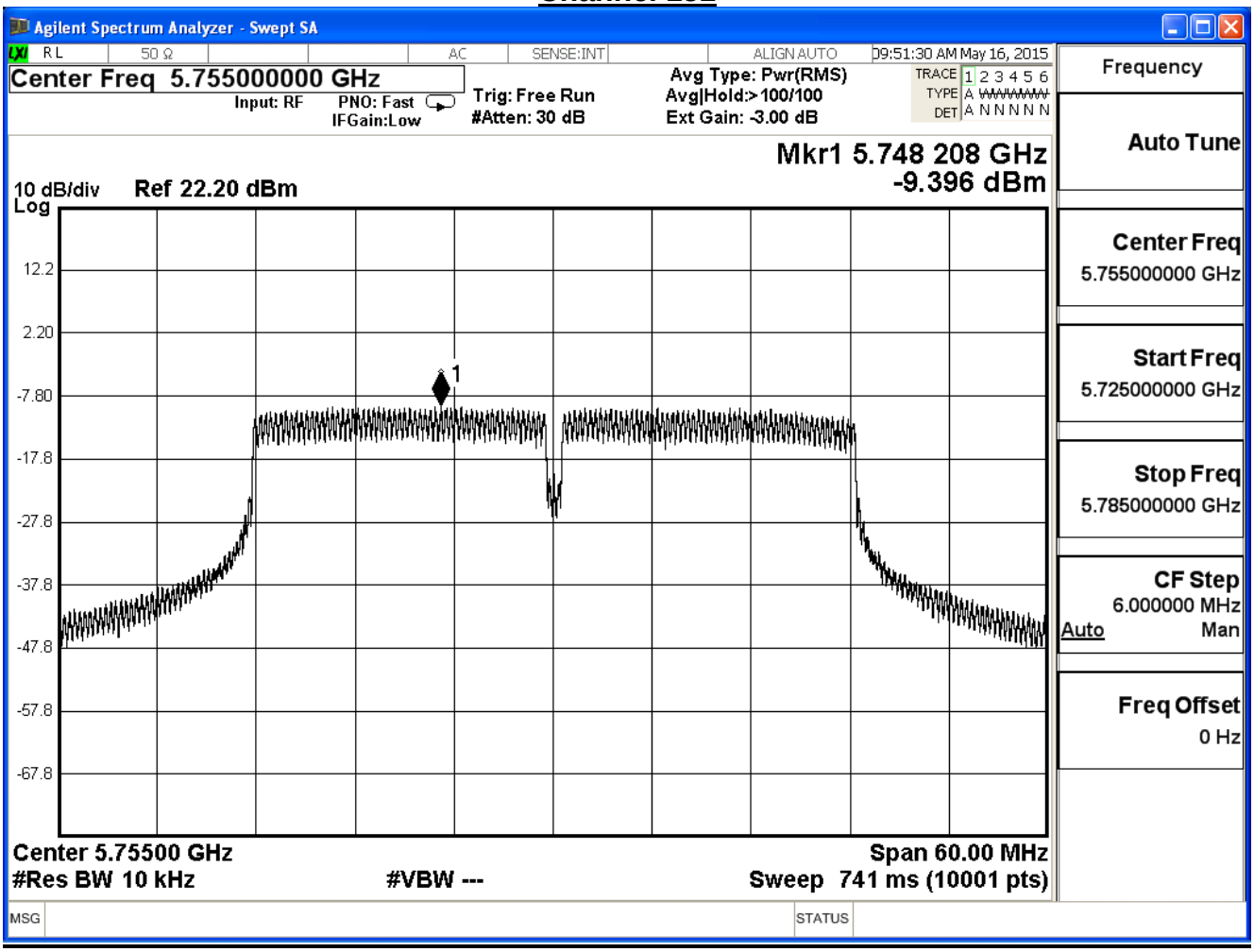
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	17.60	≦30
157	5785	17.35	≦30
165	5825	18.44	≦30

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

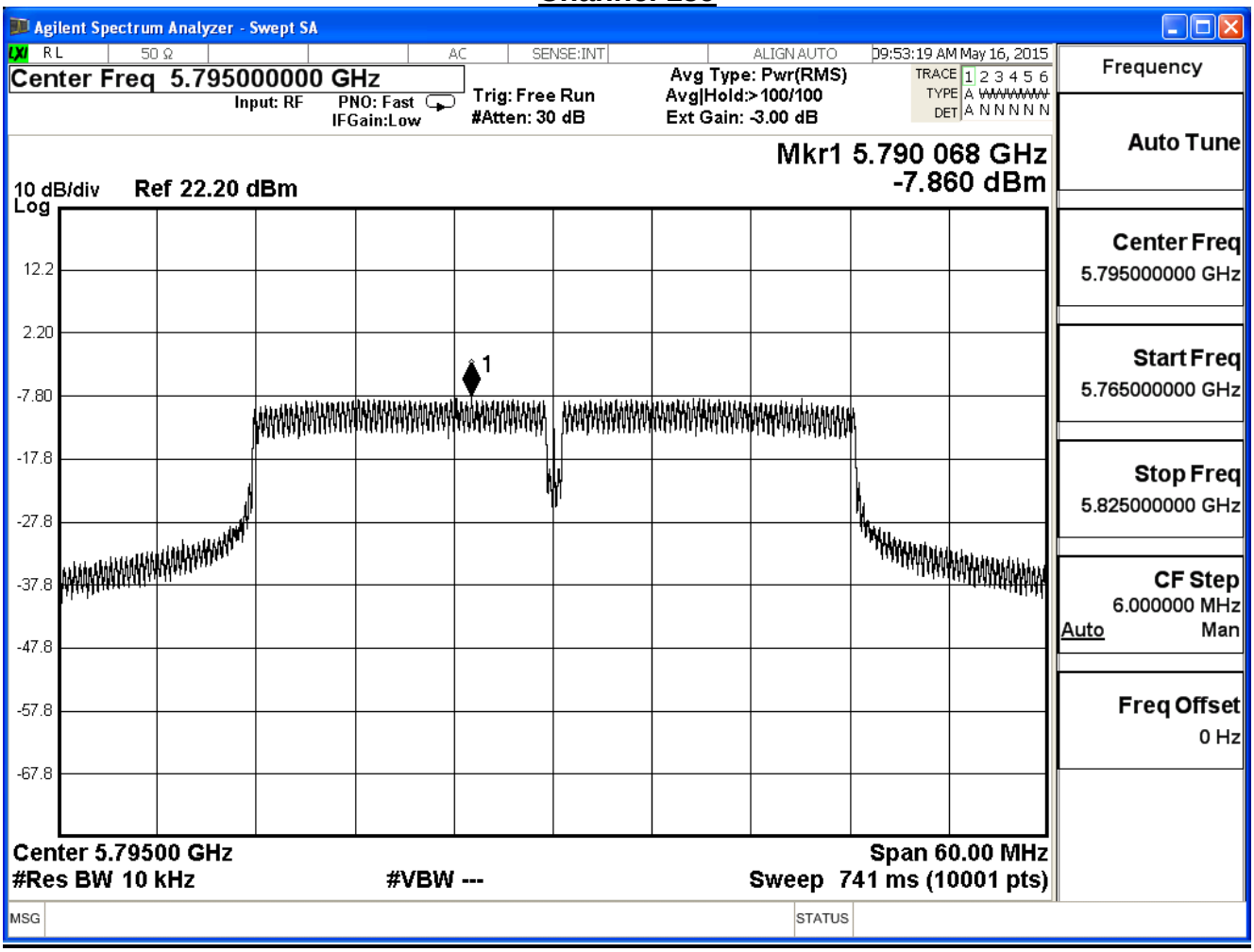
IEEE 802.11n_40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
151	5755	-9.40	7.59	≦30
159	5795	-7.86	9.13	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 151


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:51:30 AM May 16, 2015
Center Freq 5.755000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.748 208 GHz
-9.396 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.75500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.755000000 GHz
Start Freq
5.725000000 GHz
Stop Freq
5.785000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 159

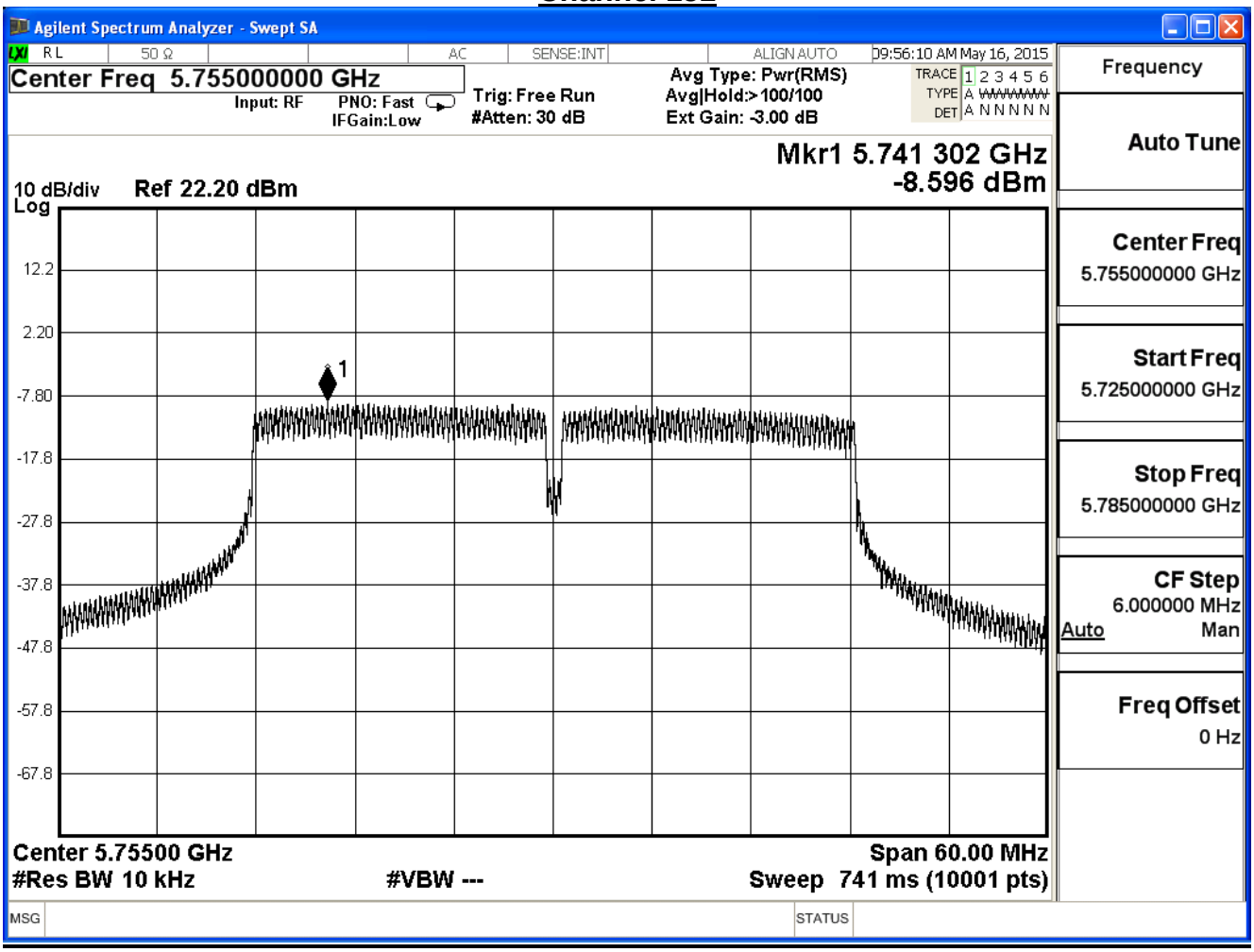

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:53:19 AM May 16, 2015
Center Freq 5.795000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.790 068 GHz
-7.860 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.79500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.765000000 GHz
Stop Freq
5.825000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

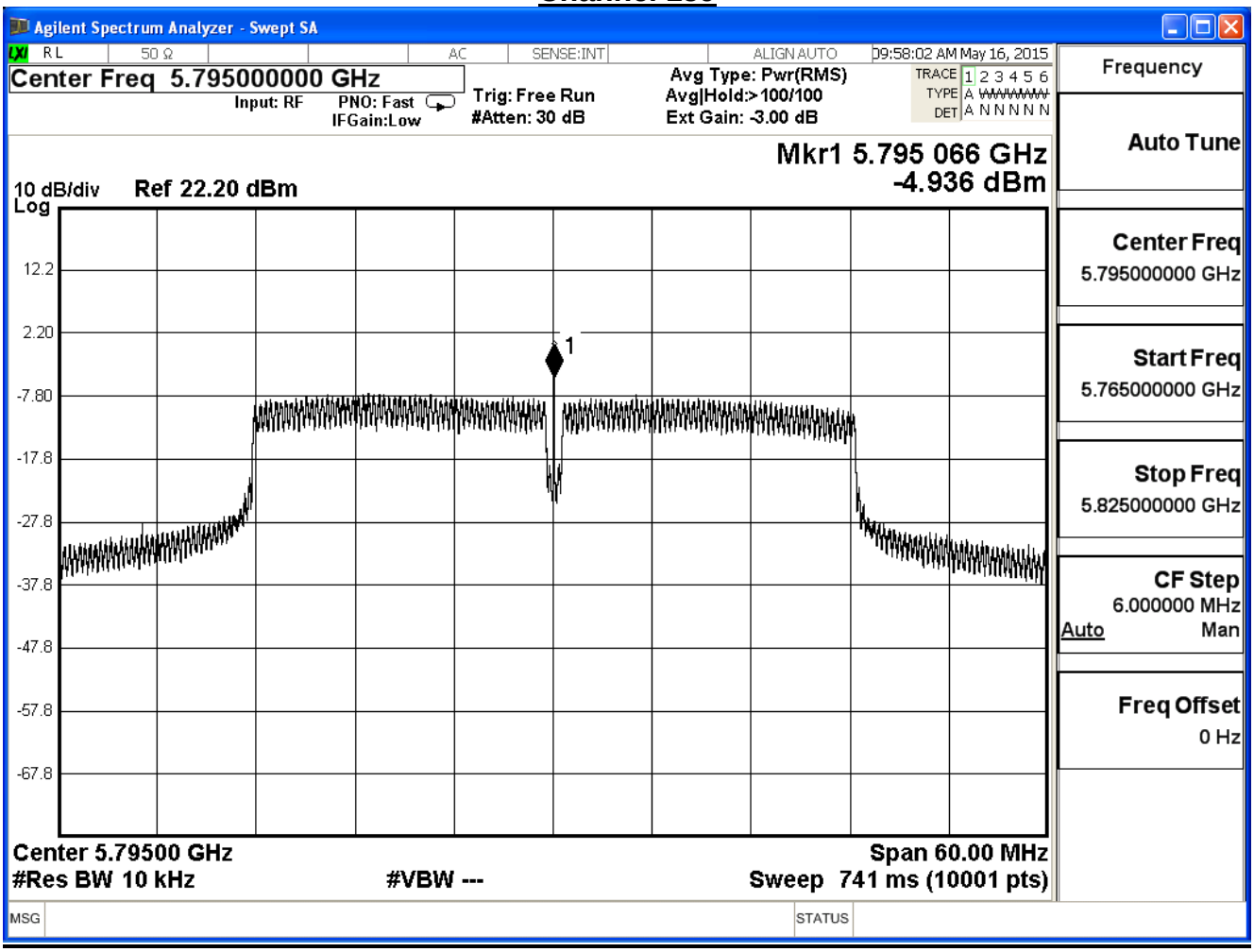
IEEE 802.11n_40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
151	5755	-8.60	8.39	≦30
159	5795	-4.94	12.05	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 151


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:56:10 AM May 16, 2015
Center Freq 5.755000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.741 302 GHz
-8.596 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.75500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.755000000 GHz
Start Freq
5.725000000 GHz
Stop Freq
5.785000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 159

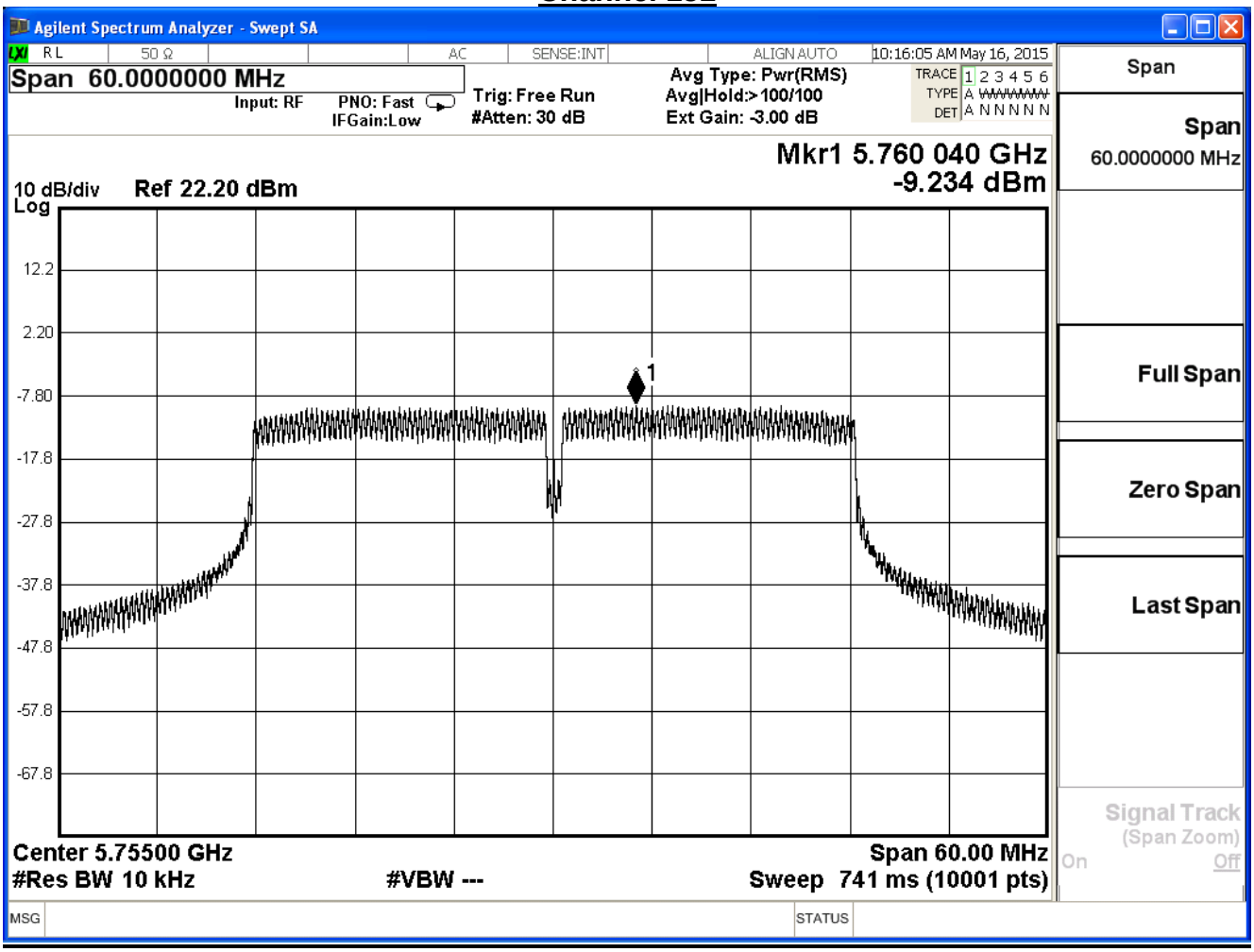

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:58:02 AM May 16, 2015
Center Freq 5.795000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.795 066 GHz
-4.936 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.79500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.765000000 GHz
Stop Freq
5.825000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

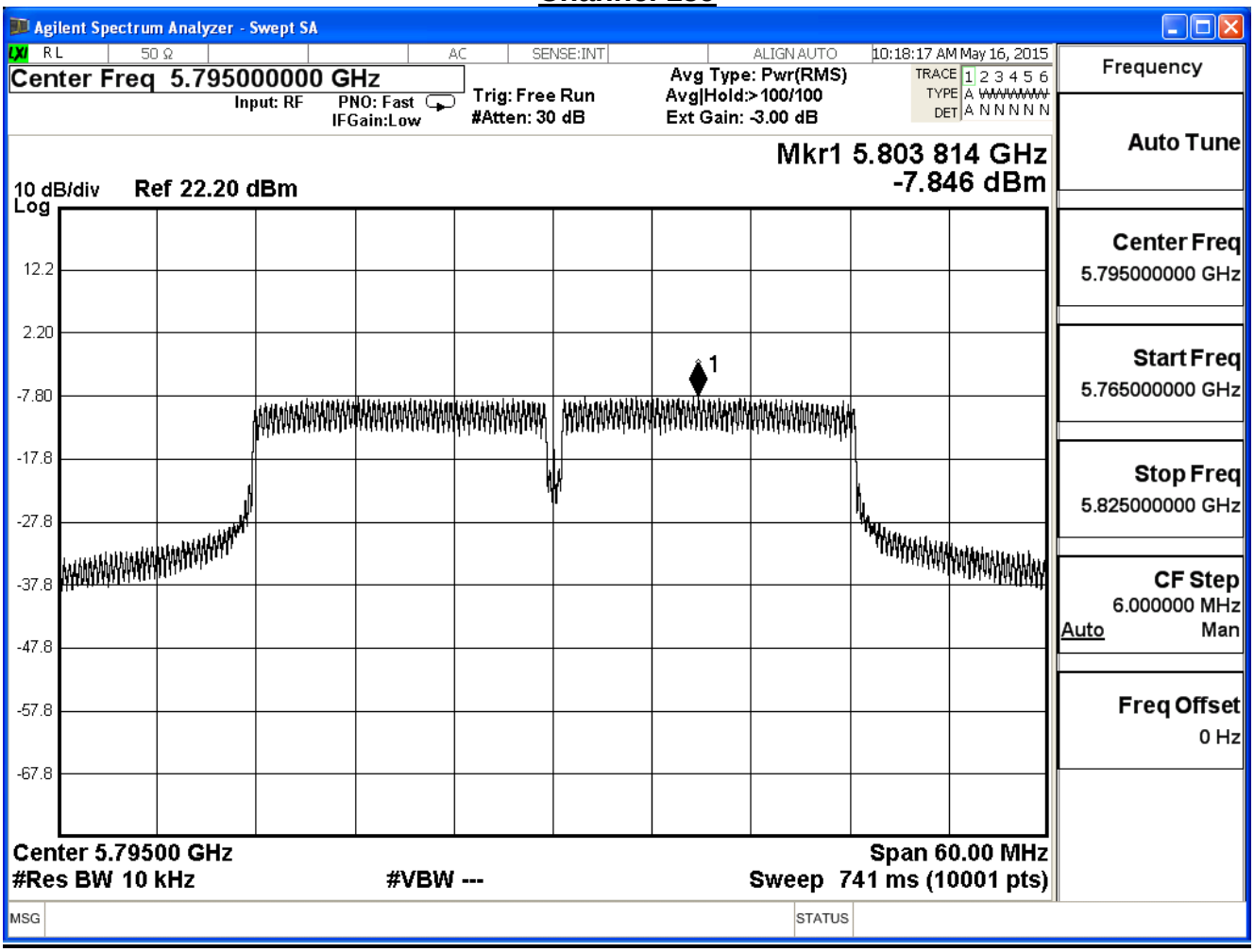
IEEE 802.11n_40MHz (ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
151	5755	-9.23	7.76	≦30
159	5795	-7.85	9.14	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 151


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:16:05 AM May 16, 2015
Span 60.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.760 040 GHz
-9.234 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.75500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Span
Span
60.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 159


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:18:17 AM May 16, 2015
Center Freq 5.795000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.803 814 GHz
-7.846 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.79500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.765000000 GHz
Stop Freq
5.825000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

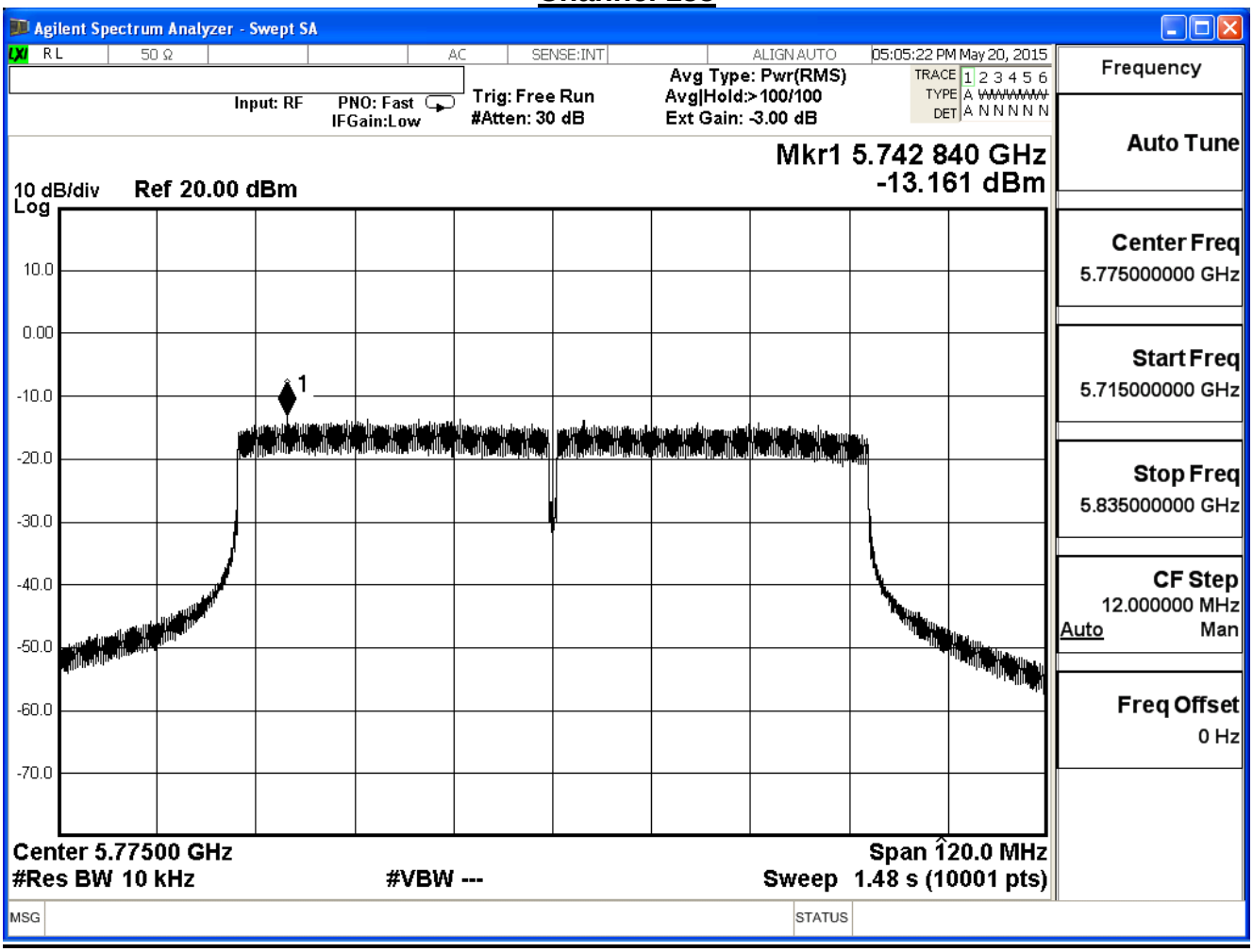
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
151	5755	12.70	≦30
159	5795	15.11	≦30

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
155	5775	-13.16	3.83	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 155

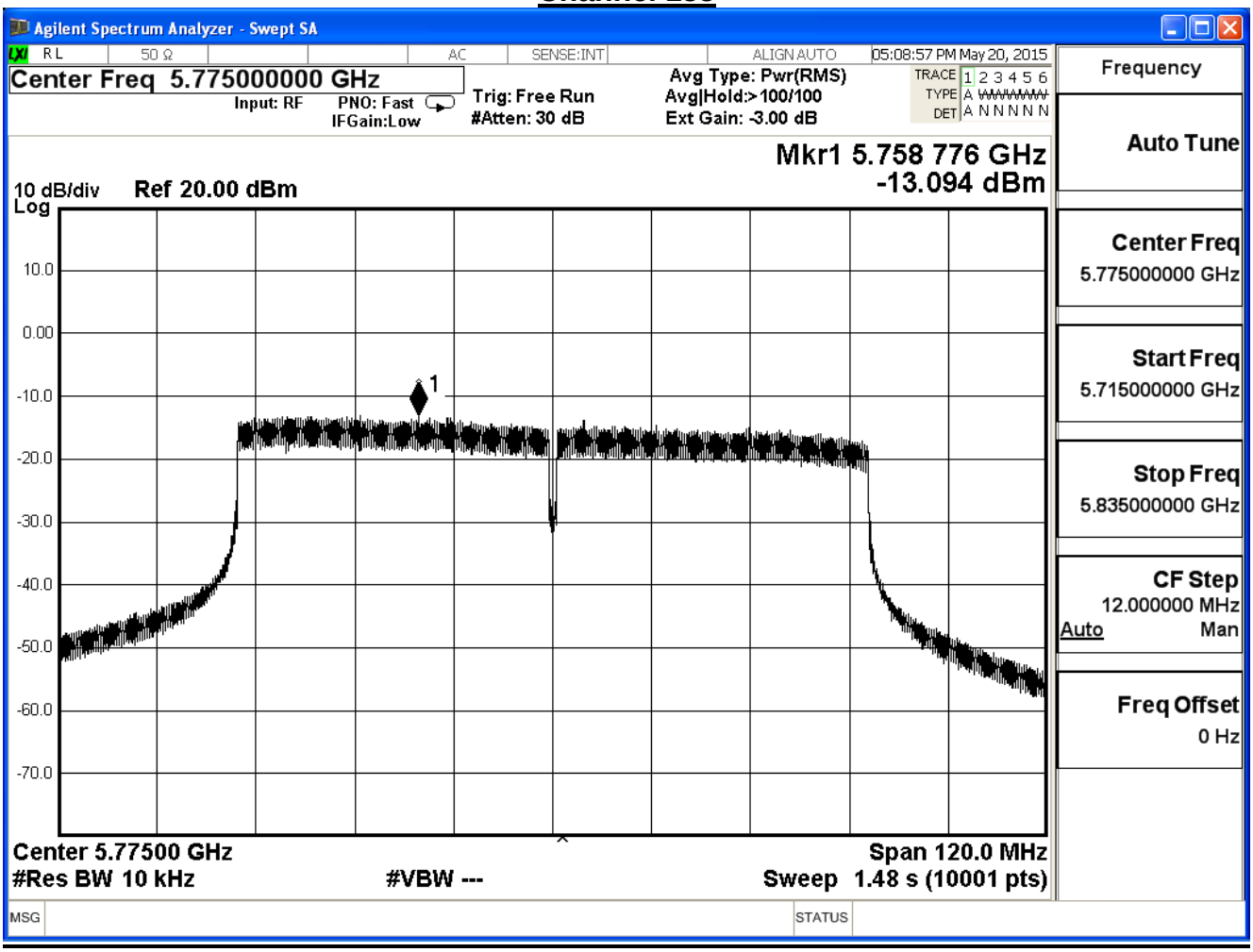


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 1)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
155	5775	-13.09	3.90	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 155

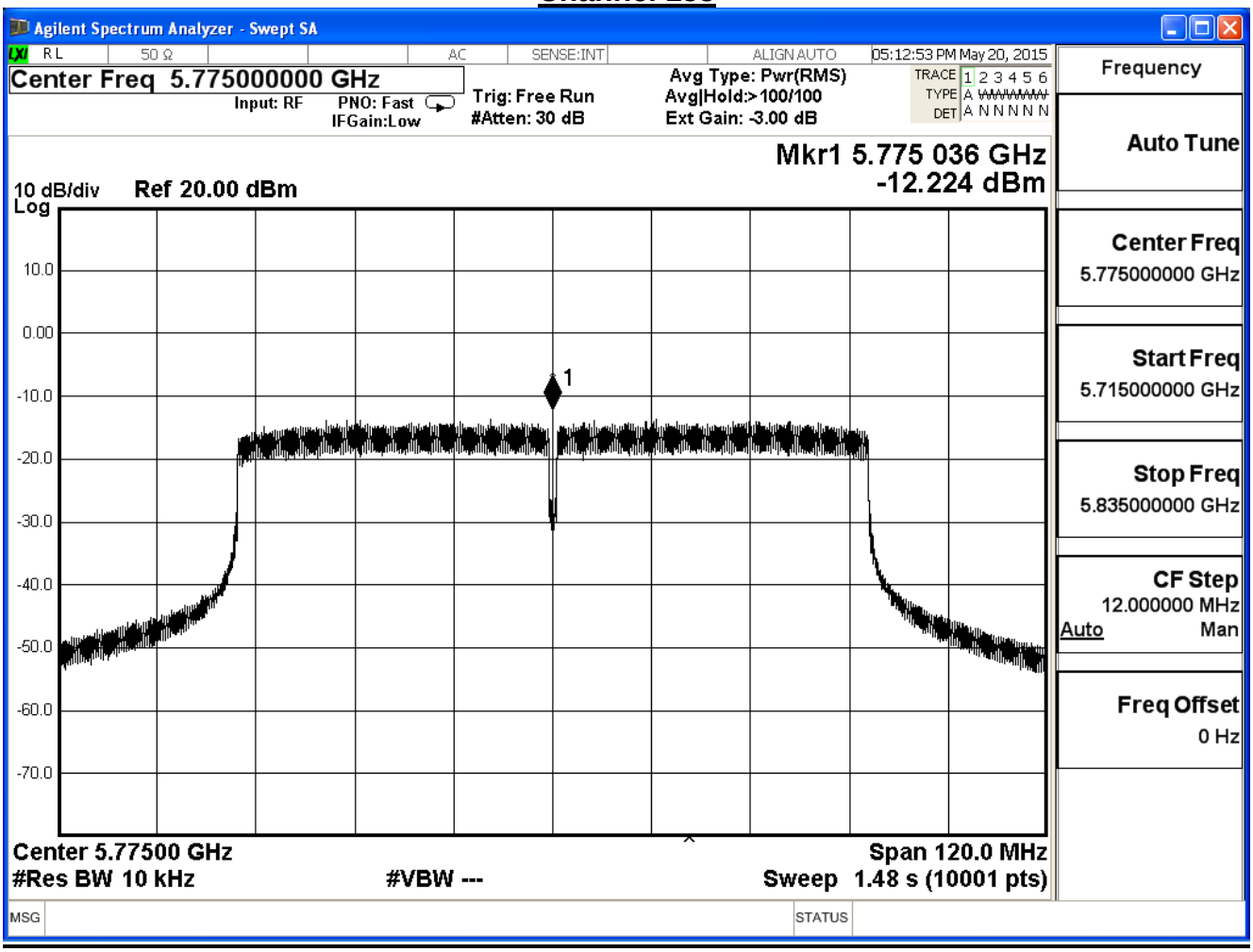


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
155	5775	-12.22	4.77	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 155



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE802.11ac 80MHz(ANT 0+1+2)

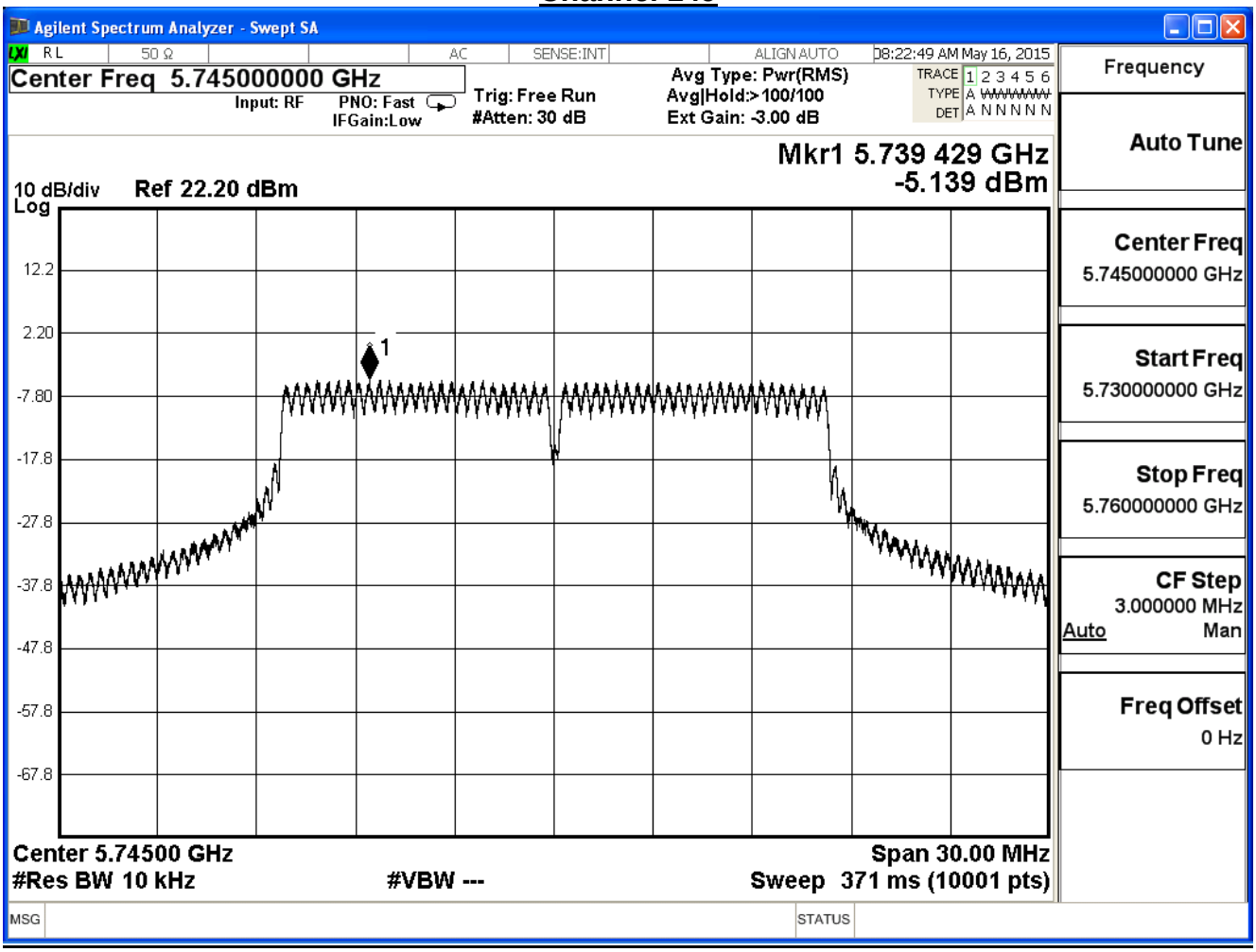
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
155	5775	8.96	≦30

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

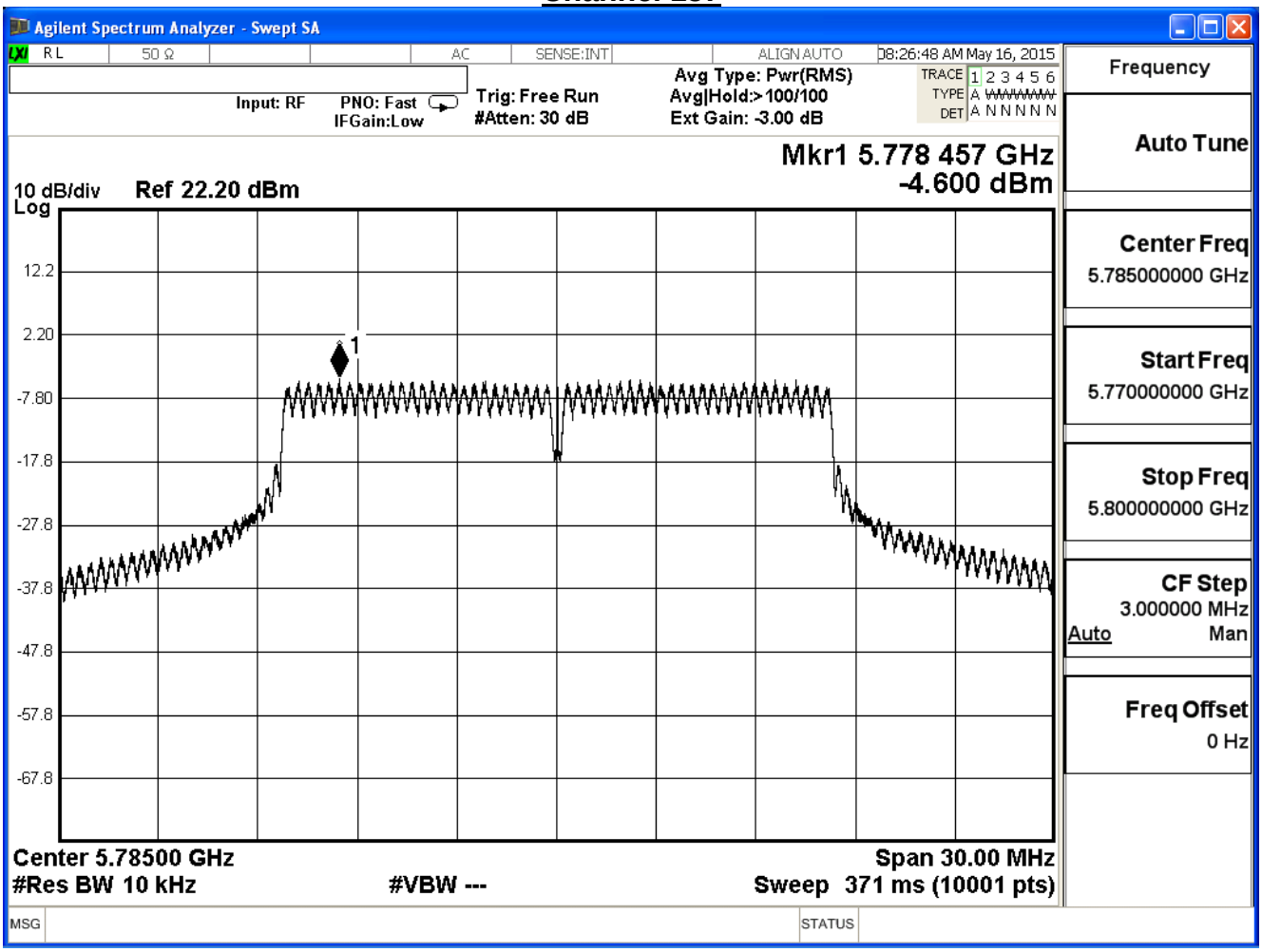
IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-5.14	11.85	≦30
157	5785	-4.60	12.39	≦30
165	5825	-4.34	12.65	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

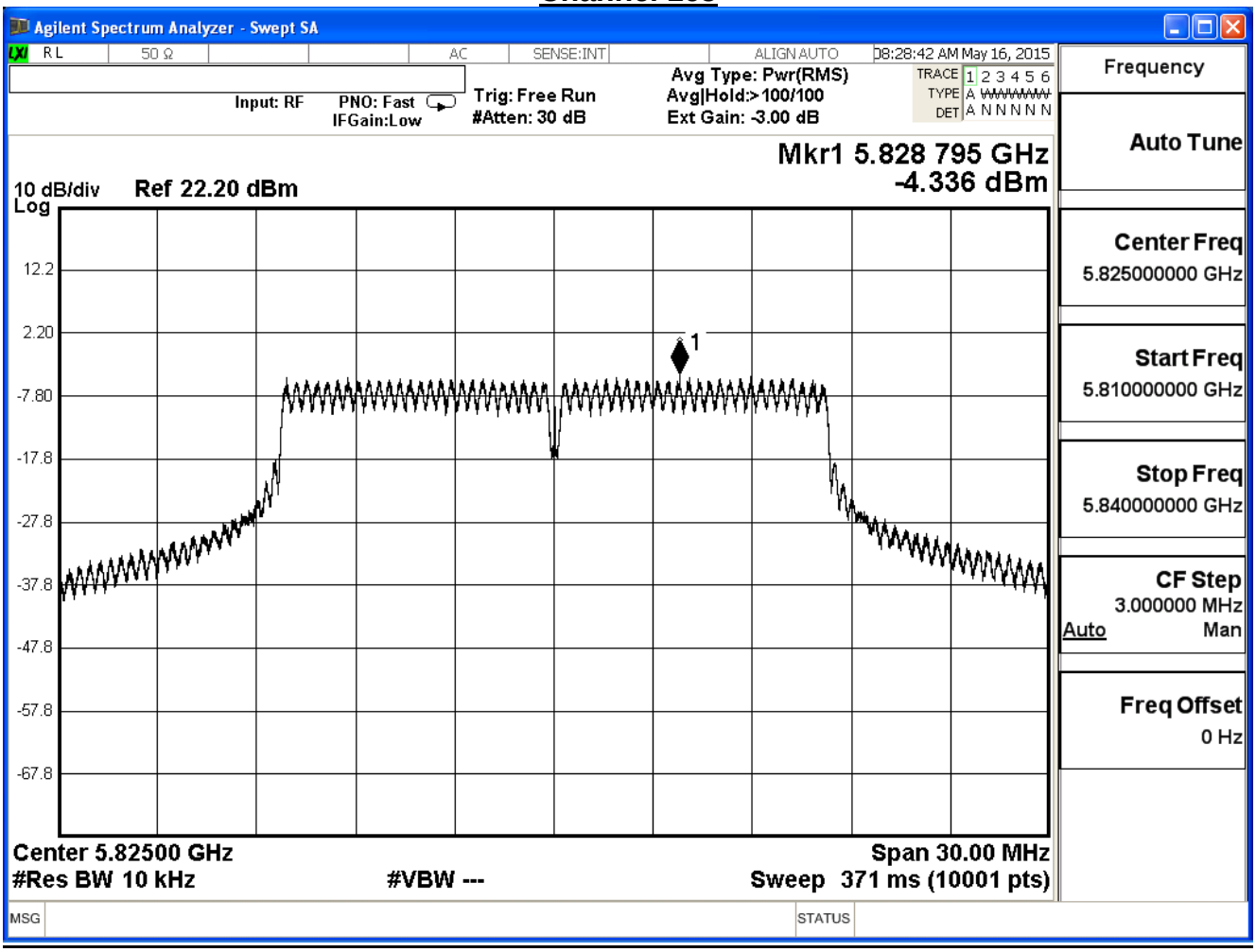
Channel 149


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.745000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
08:22:49 AM May 16, 2015
Mkr1 5.739 429 GHz
-5.139 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
Frequency
Auto Tune
Center Freq
5.745000000 GHz
Start Freq
5.730000000 GHz
Stop Freq
5.760000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:26:48 AM May 16, 2015
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.778 457 GHz
-4.600 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165

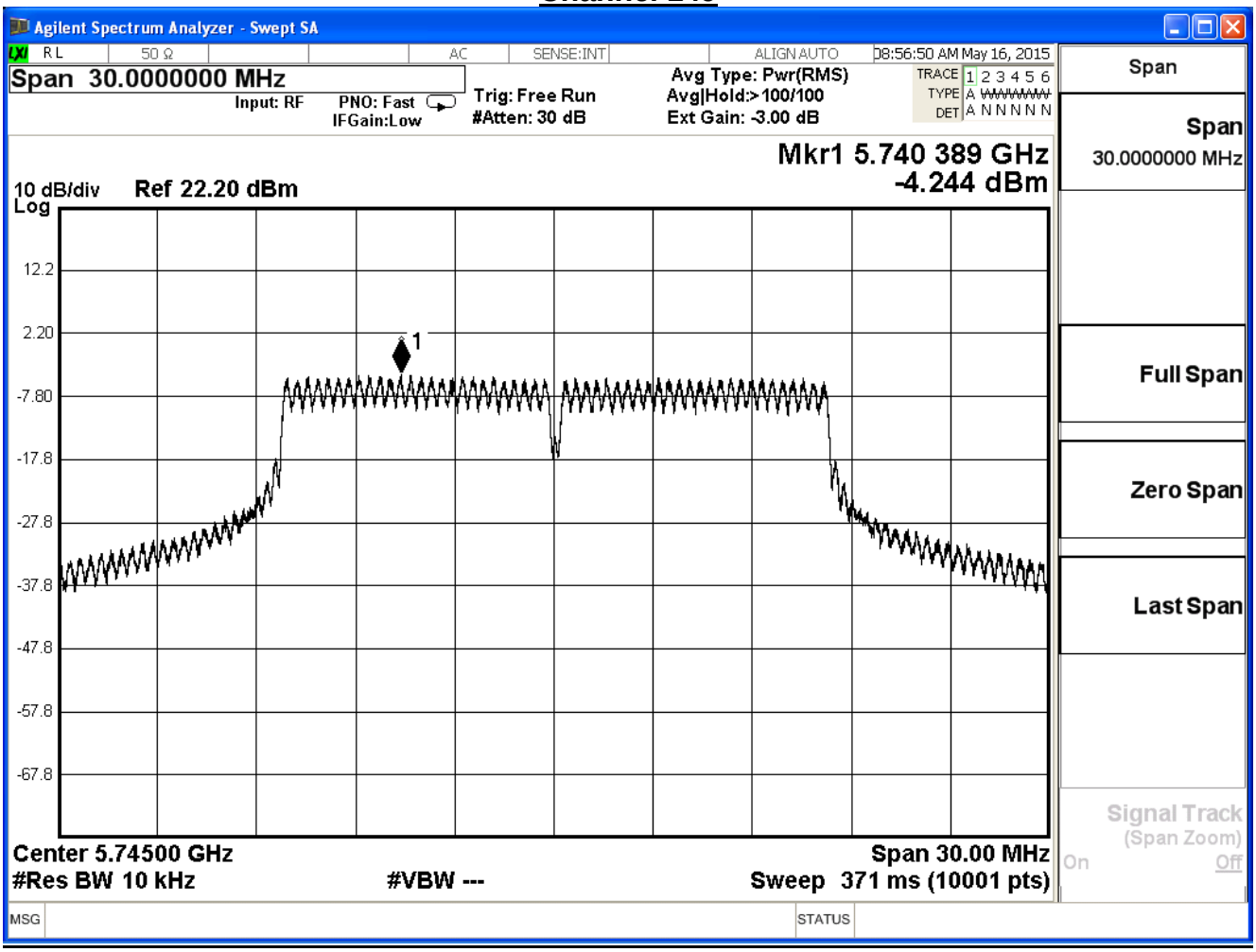

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:28:42 AM May 16, 2015
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A
DET A N N N N N
Mkr1 5.828 795 GHz
-4.336 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

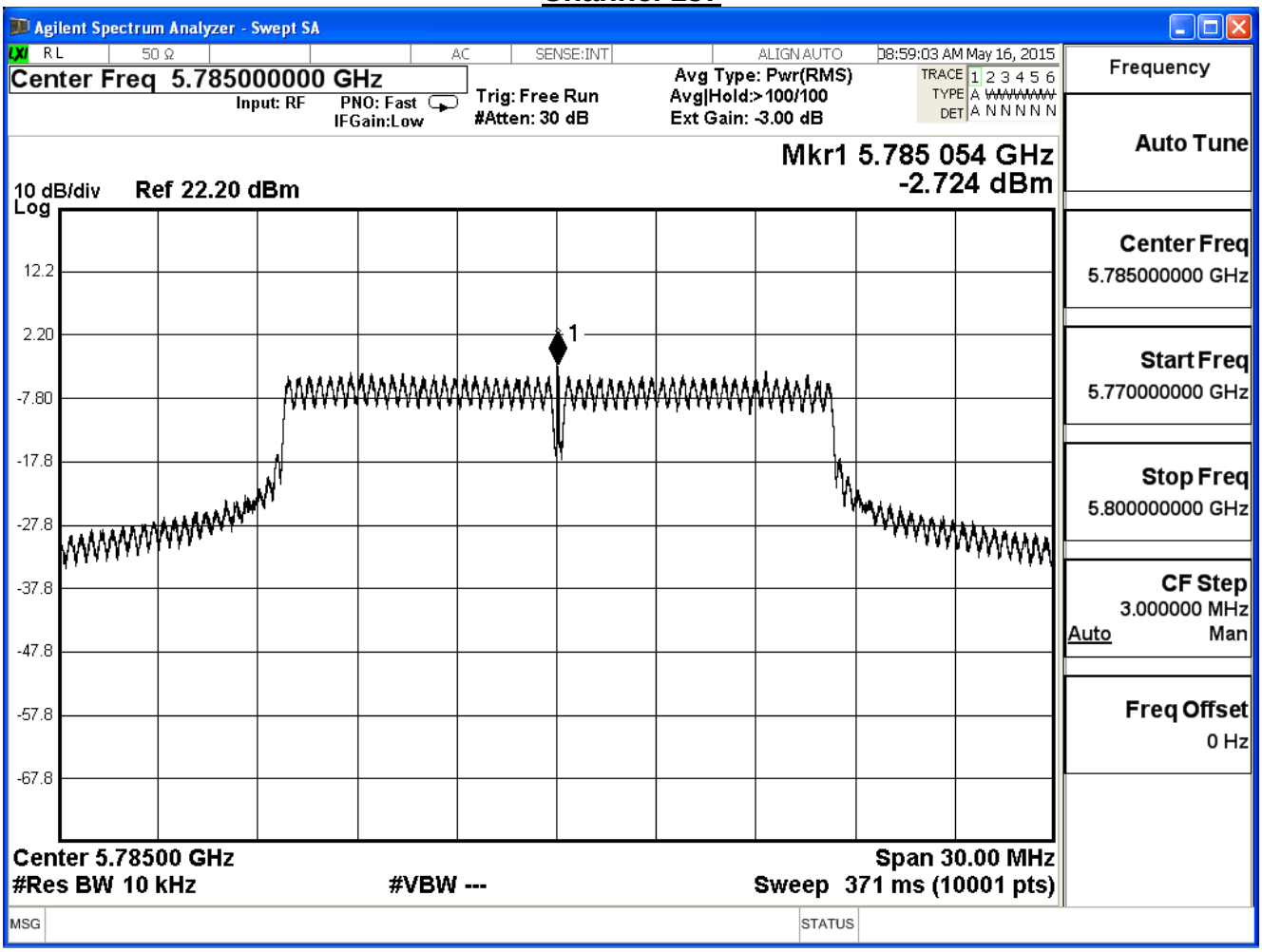
IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-4.24	12.75	≦30
157	5785	-2.72	14.27	≦30
165	5825	-3.64	13.35	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

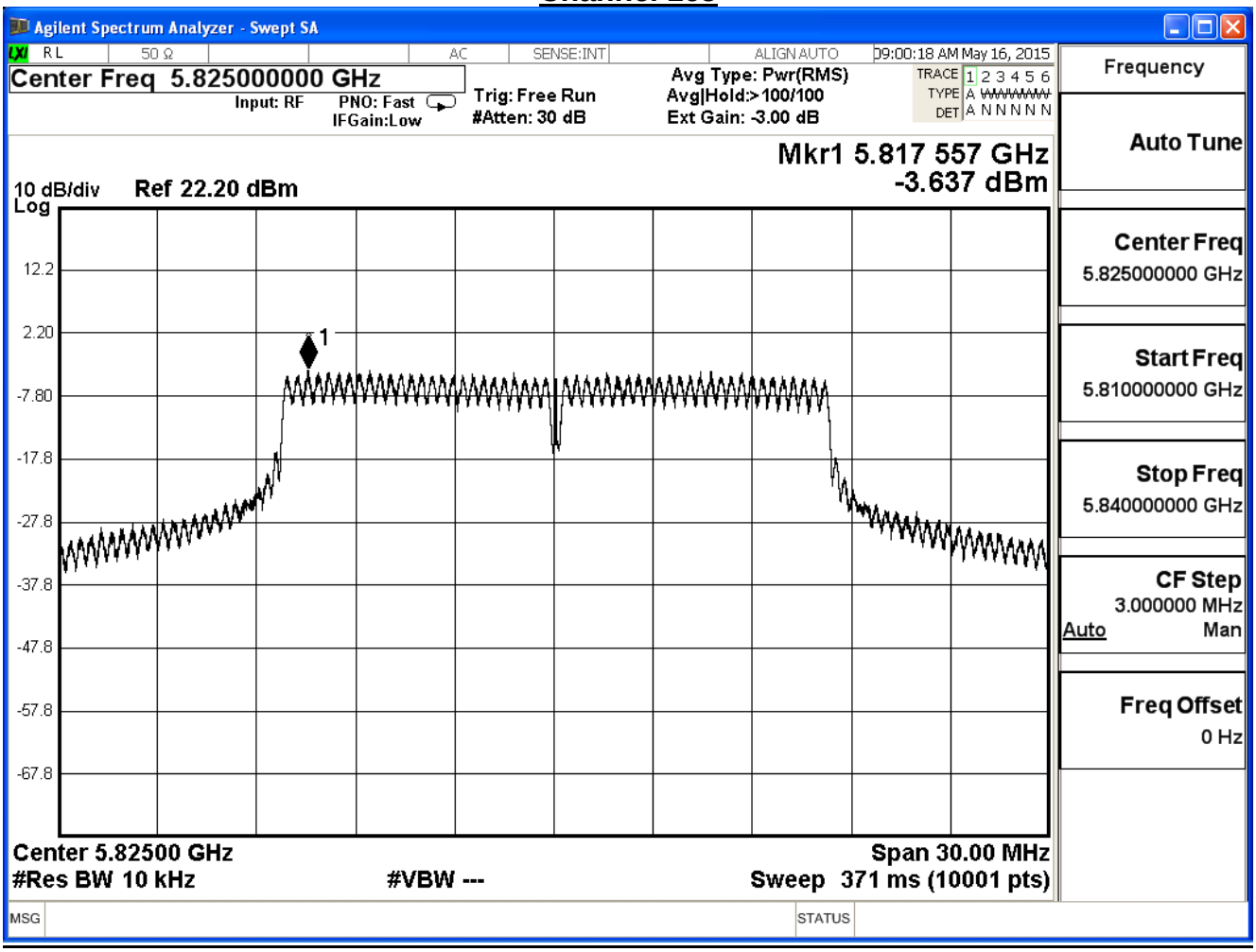
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:56:50 AM May 16, 2015
Span 30.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.740 389 GHz
-4.244 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Span
Span
30.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:59:03 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.785 054 GHz
-2.724 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel 165

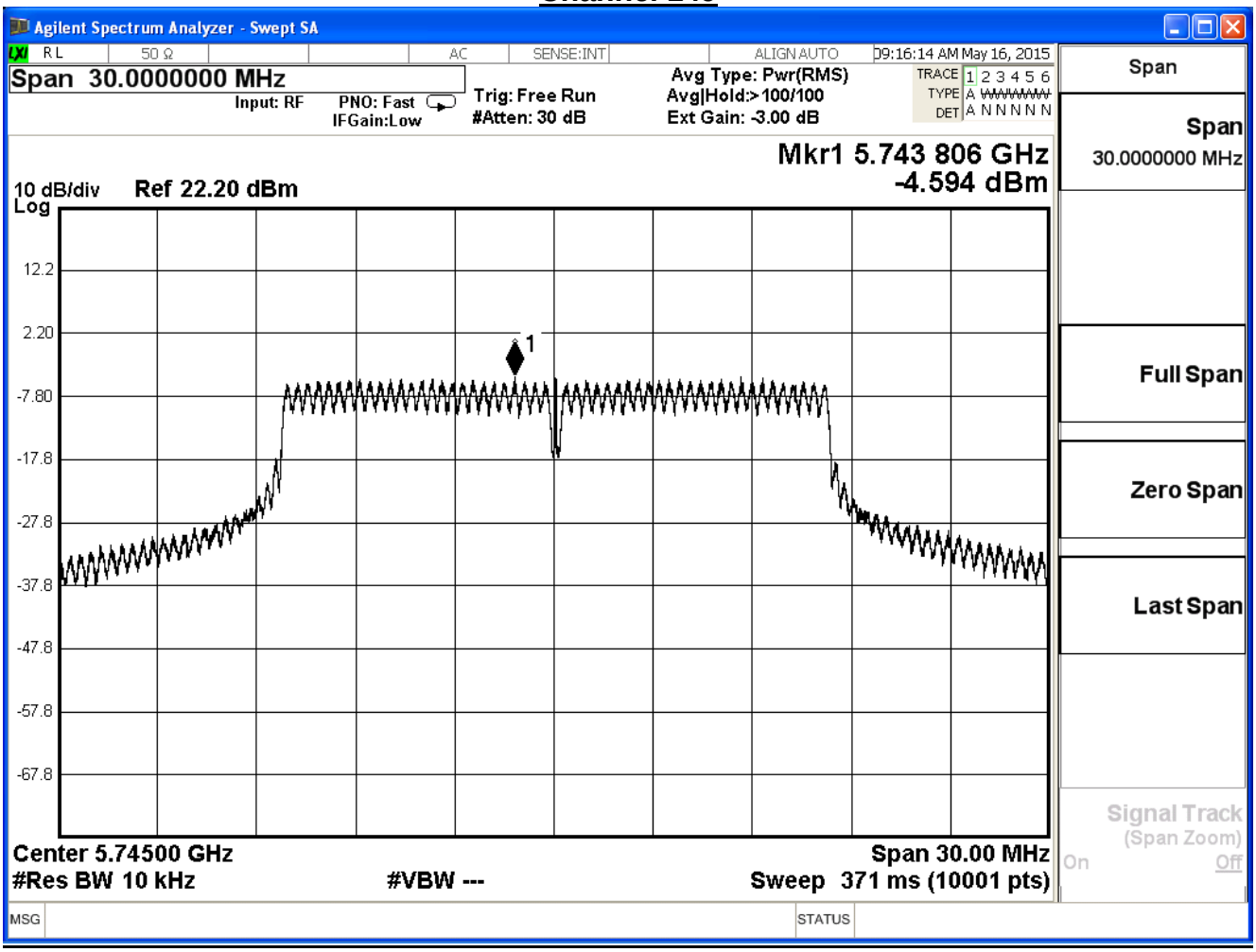

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:00:18 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.817 557 GHz
-3.637 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

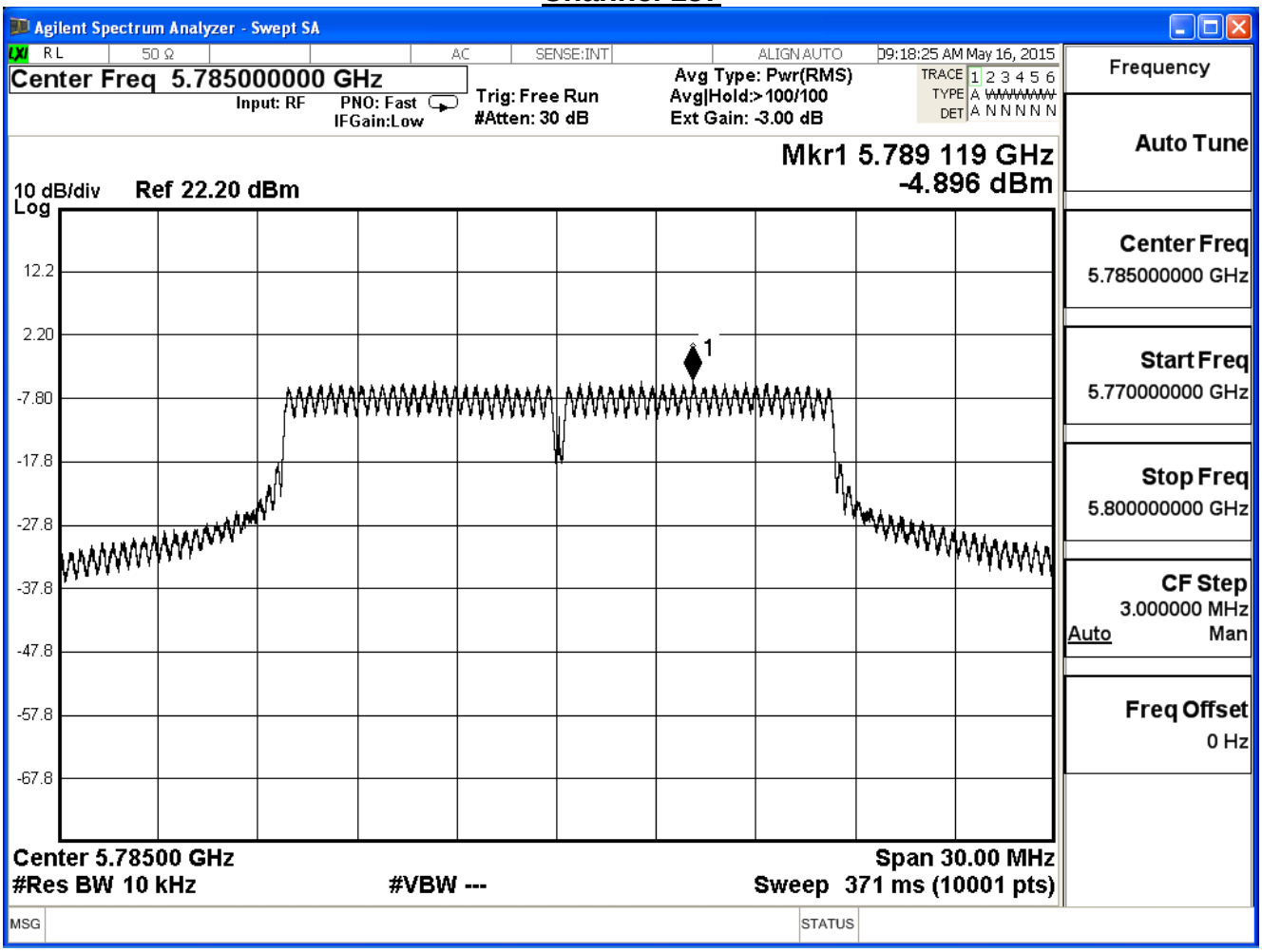
IEEE 802.11a (ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-4.59	12.40	≦30
157	5785	-4.90	12.09	≦30
165	5825	-5.10	11.89	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

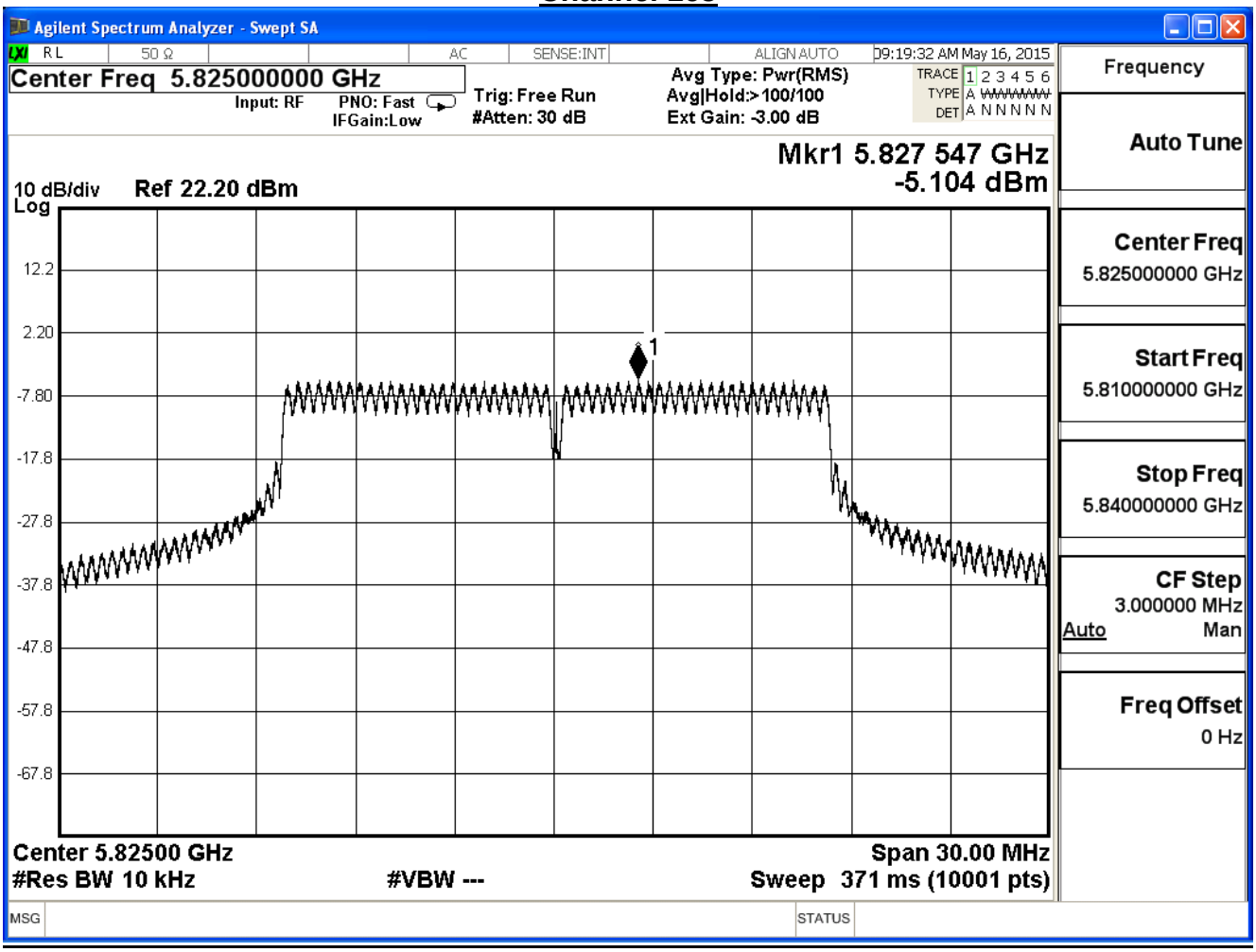
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:16:14 AM May 16, 2015
Span 30.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.743 806 GHz
-4.594 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Span
Span
30.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 157


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
09:18:25 AM May 16, 2015
Mkr1 5.789 119 GHz
-4.896 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel 165


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:19:32 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.827 547 GHz
-5.104 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE 802.11a (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	17.12	≦30
157	5785	17.80	≦30
165	5825	17.44	≦30

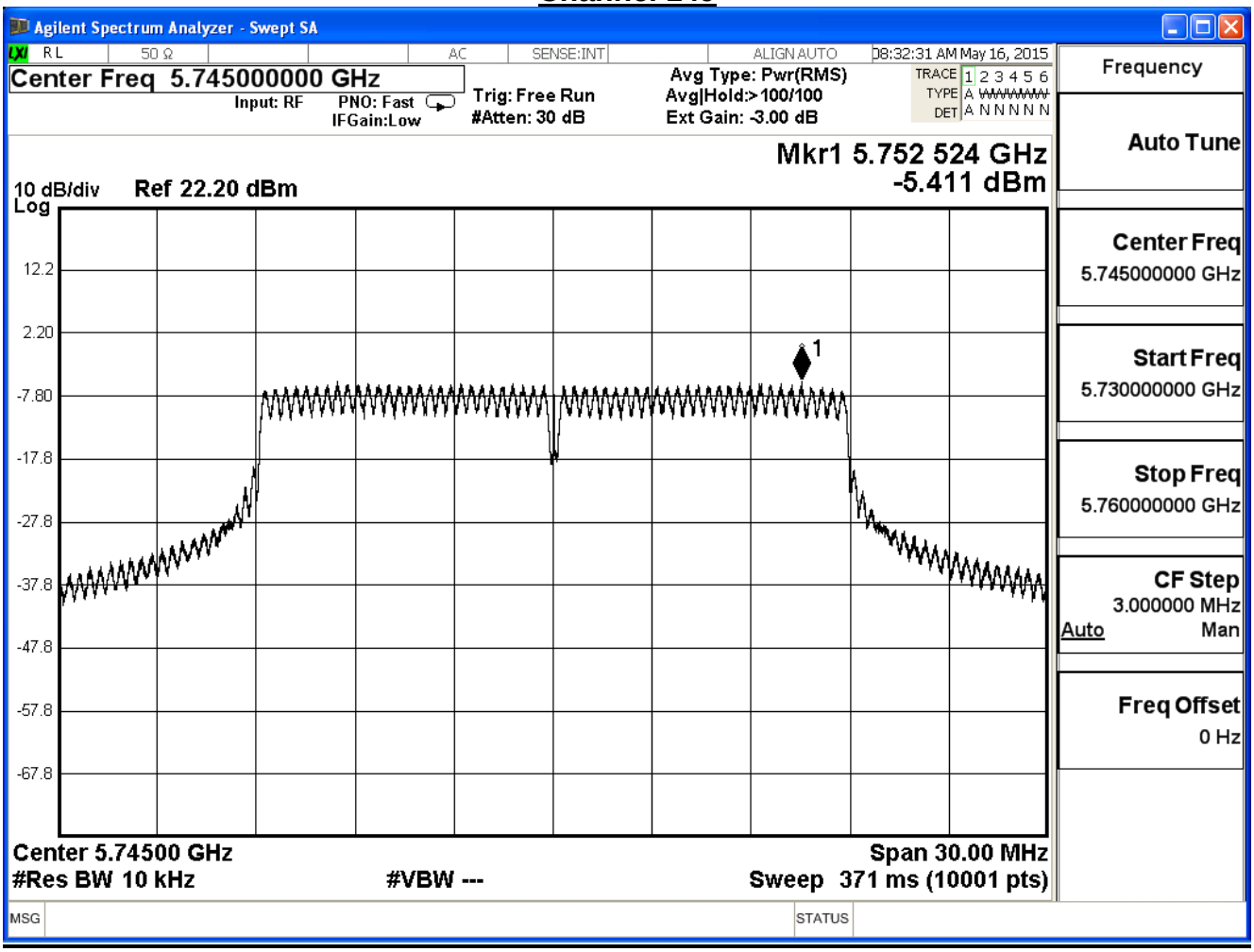
Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

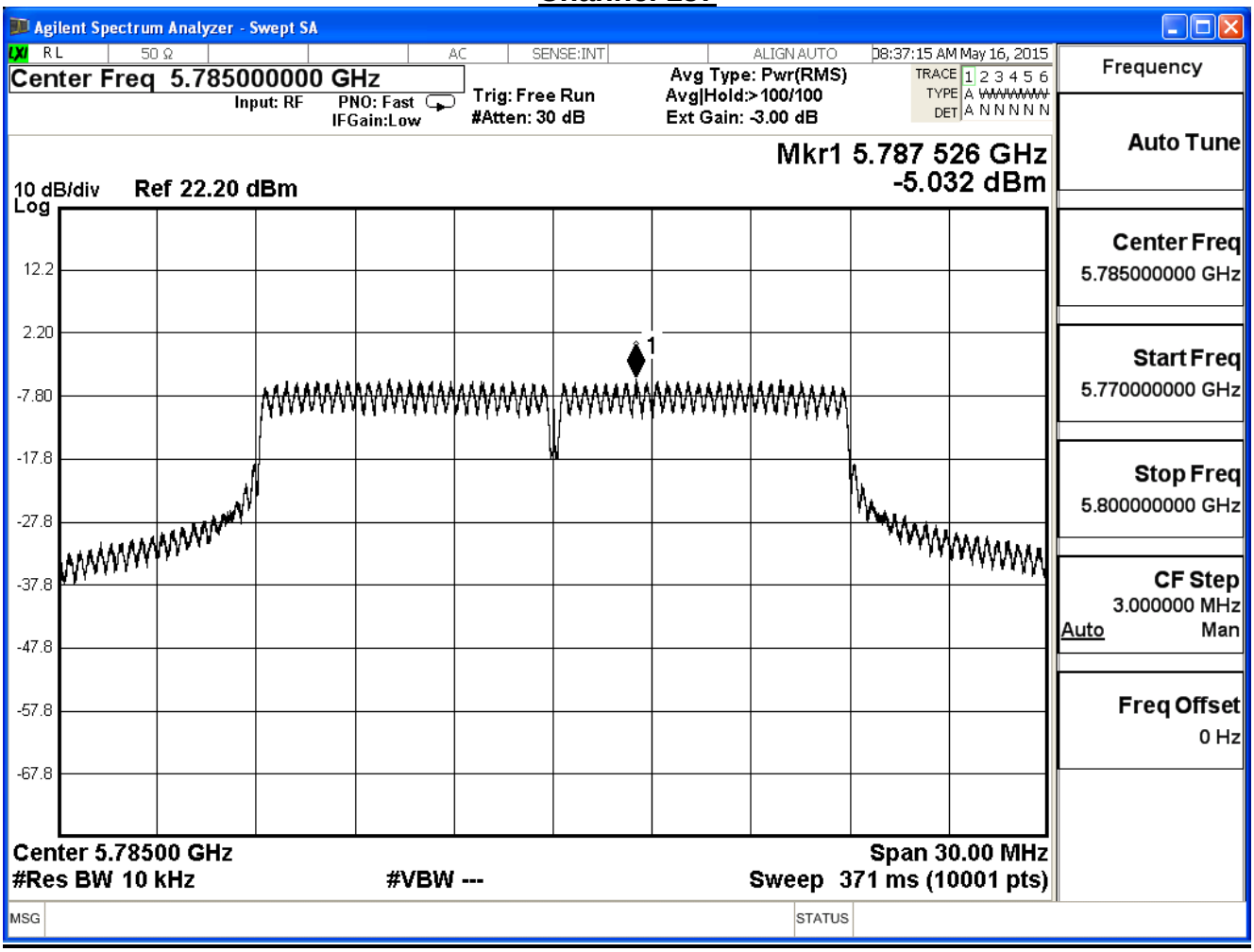
IEEE802.11n_20MHz_(ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-5.41	11.58	≦30
157	5785	-5.03	11.96	≦30
165	5825	-5.30	11.69	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

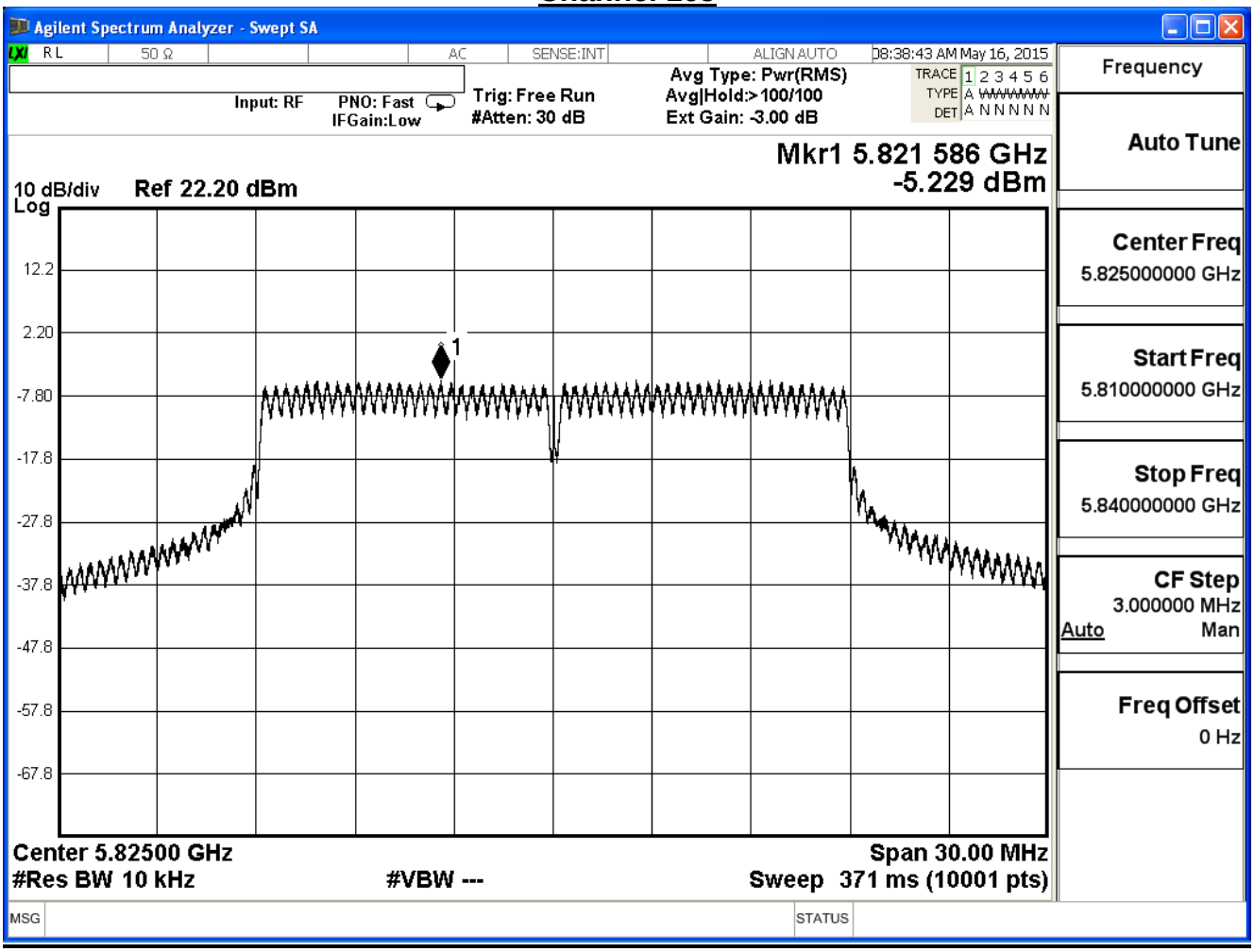
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:32:31 AM May 16, 2015
Center Freq 5.745000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.752 524 GHz
-5.411 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.745000000 GHz
Start Freq
5.730000000 GHz
Stop Freq
5.760000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:37:15 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.787 526 GHz
-5.032 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165

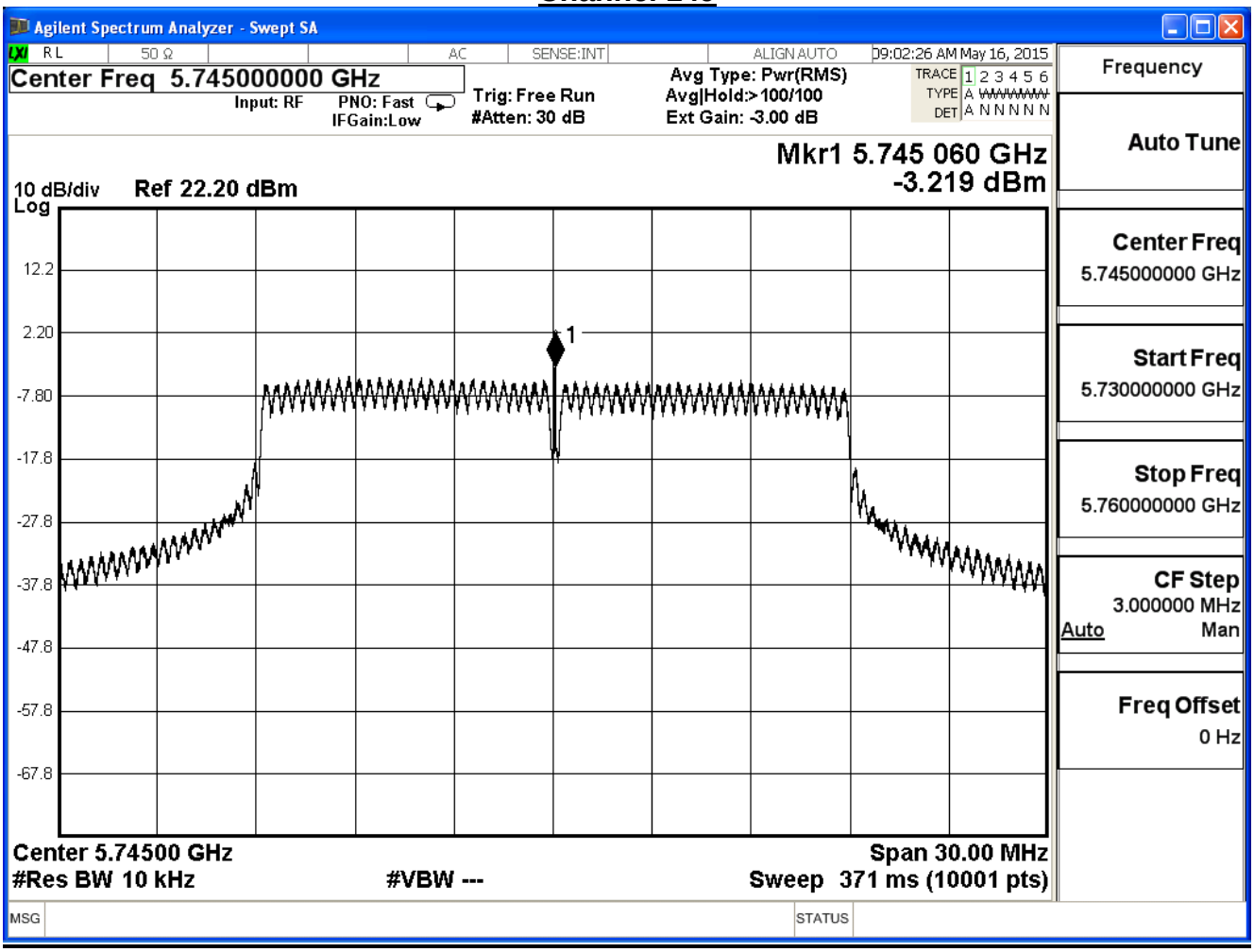

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:38:43 AM May 16, 2015
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A
DET A N N N N N
Mkr1 5.821 586 GHz
-5.229 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

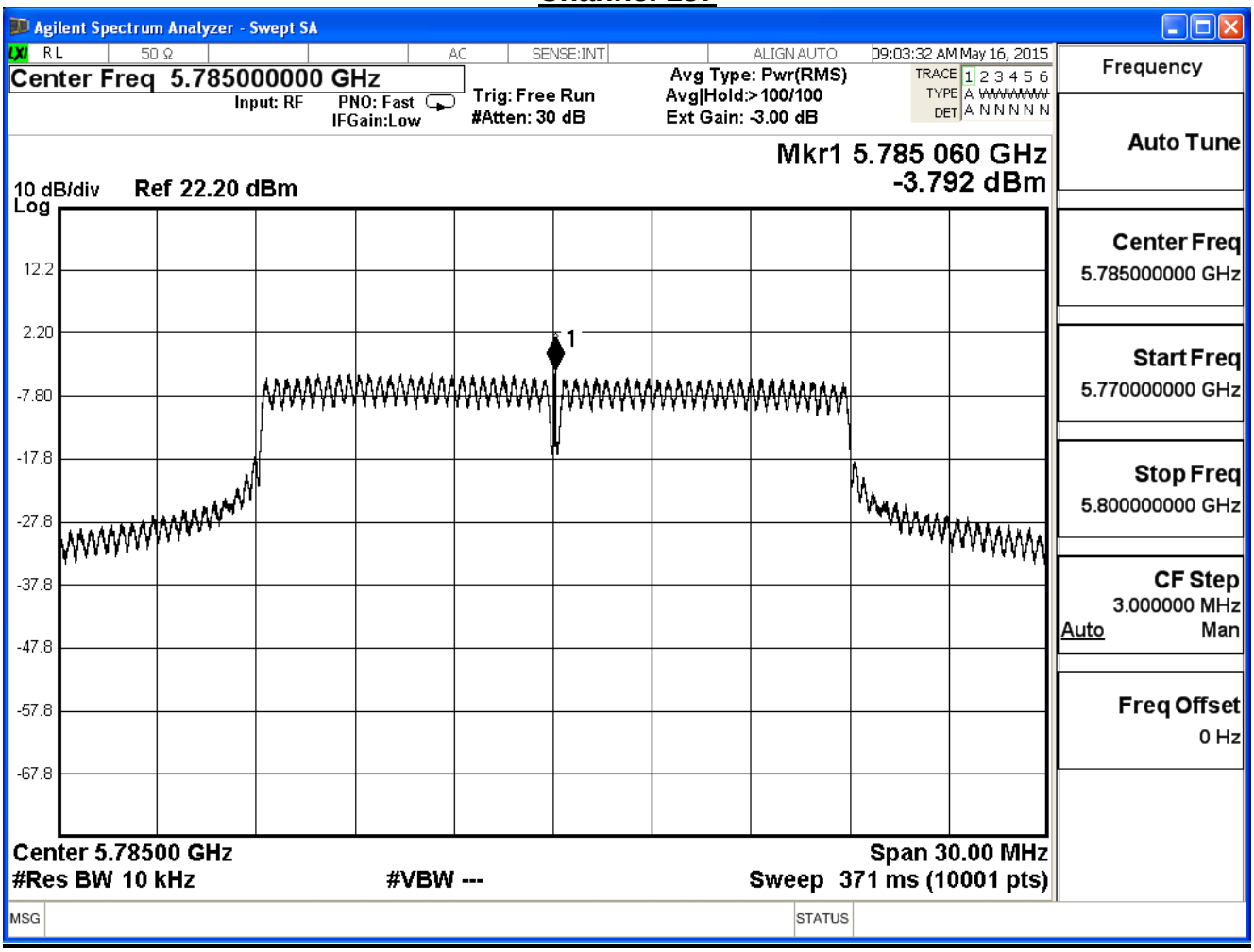
IEEE802.11n_20MHz_(ANT 1)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-3.22	13.77	≦30
157	5785	-3.79	13.20	≦30
165	5825	-4.43	12.56	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

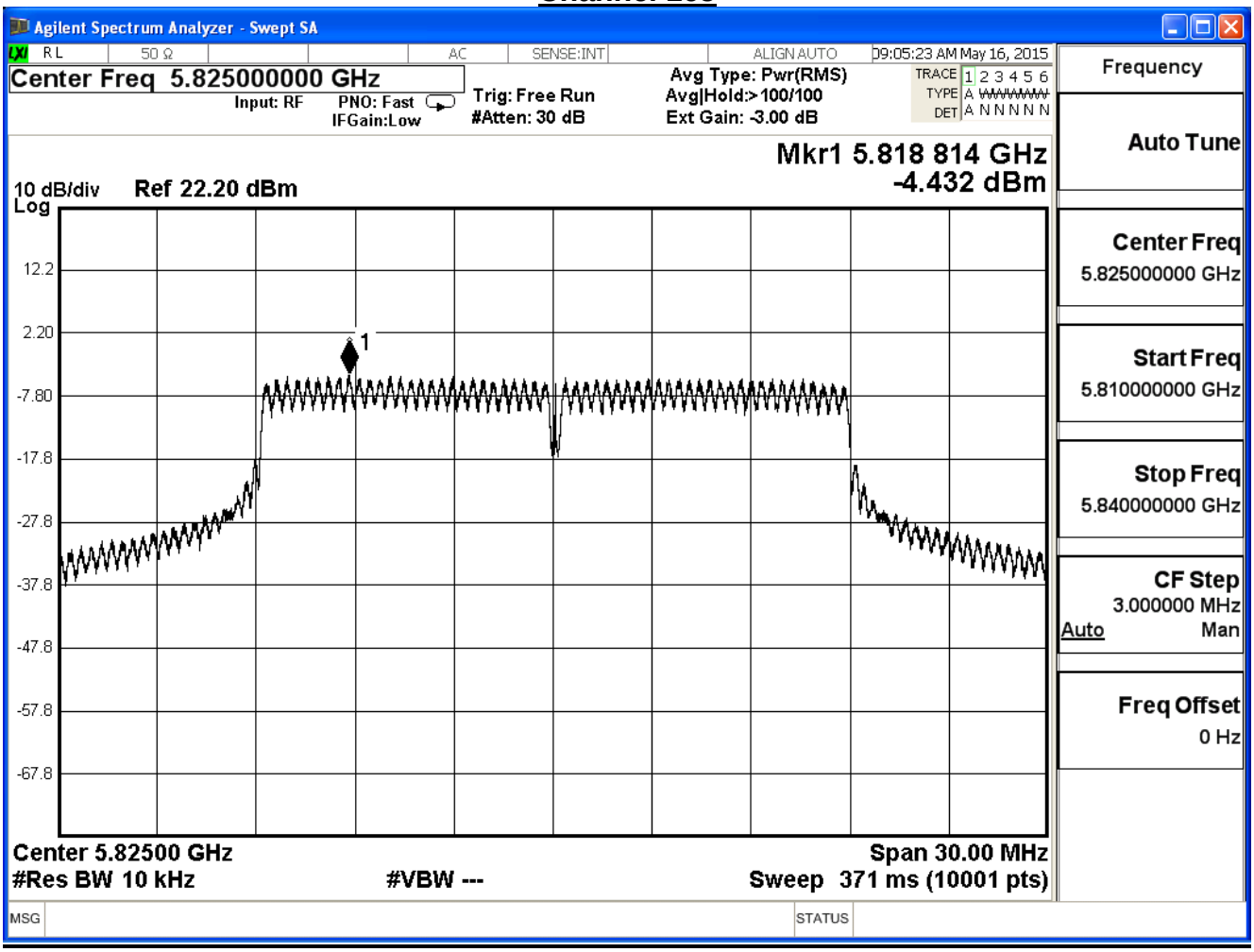
Channel 149


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:02:26 AM May 16, 2015
Center Freq 5.745000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.745 060 GHz
-3.219 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.745000000 GHz
Start Freq
5.730000000 GHz
Stop Freq
5.760000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:03:32 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.785 060 GHz
-3.792 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165

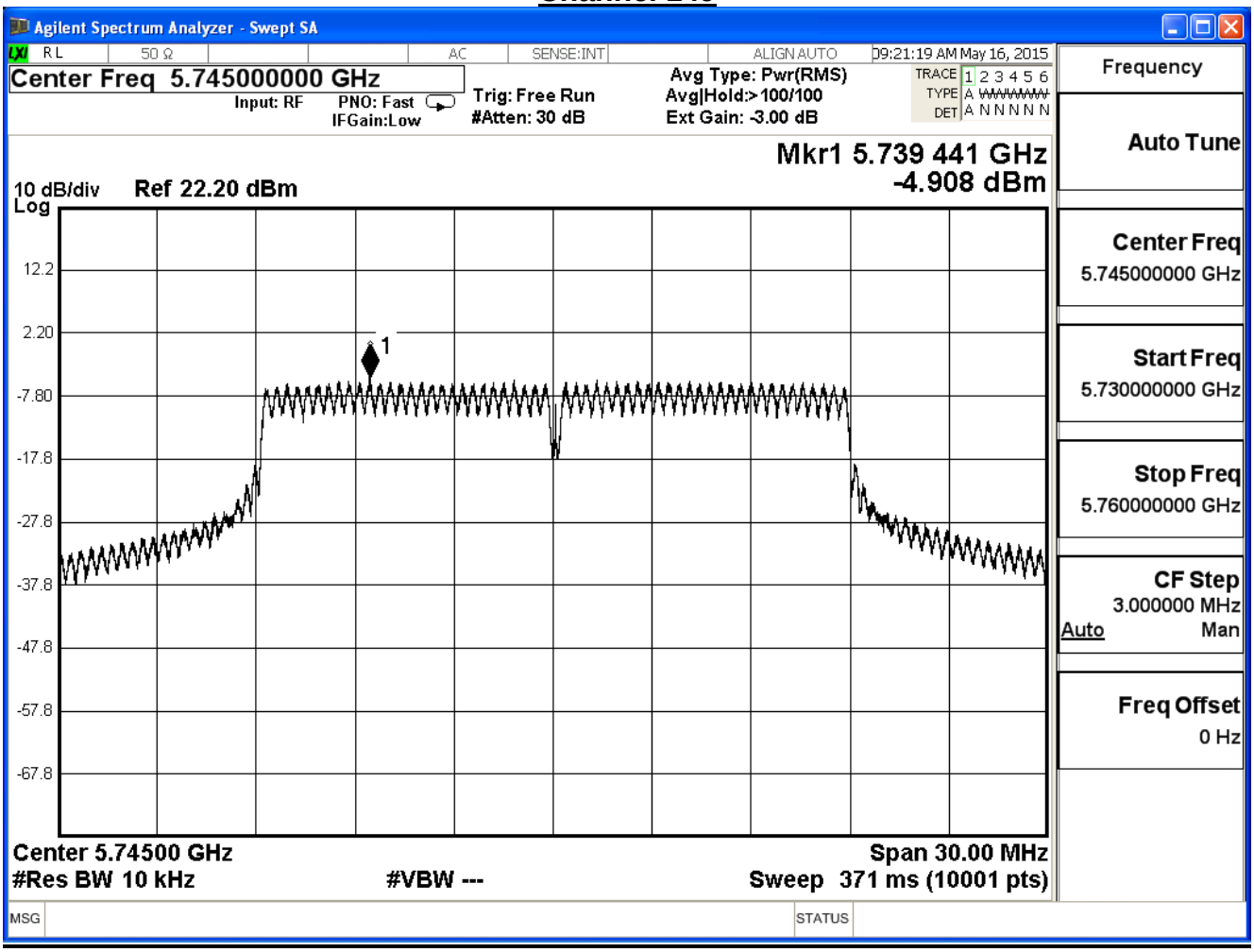

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:05:23 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.818 814 GHz
-4.432 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

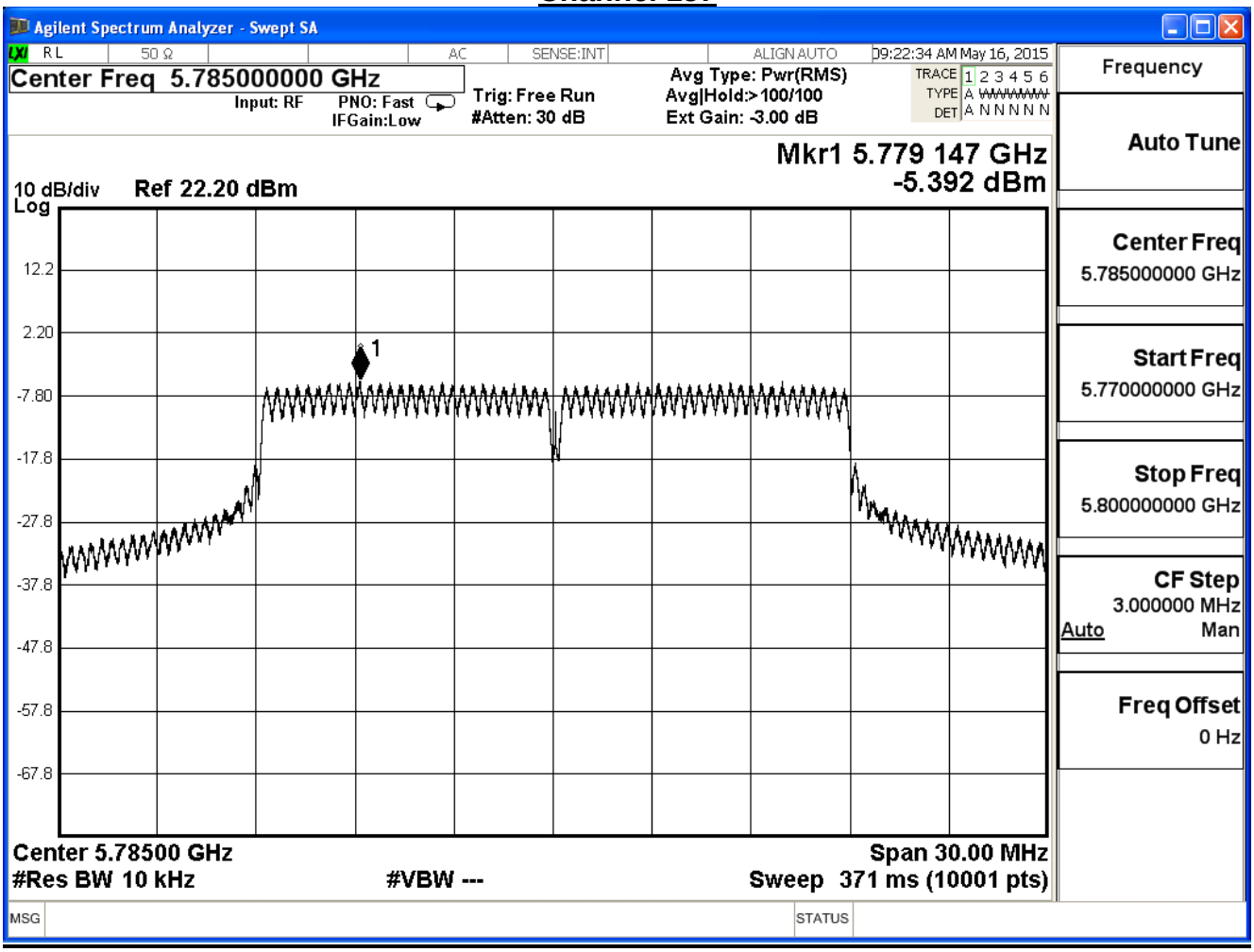
IEEE802.11n_20MHz_(ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
149	5745	-4.91	12.08	≦30
157	5785	-5.39	11.60	≦30
165	5825	-5.74	11.25	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

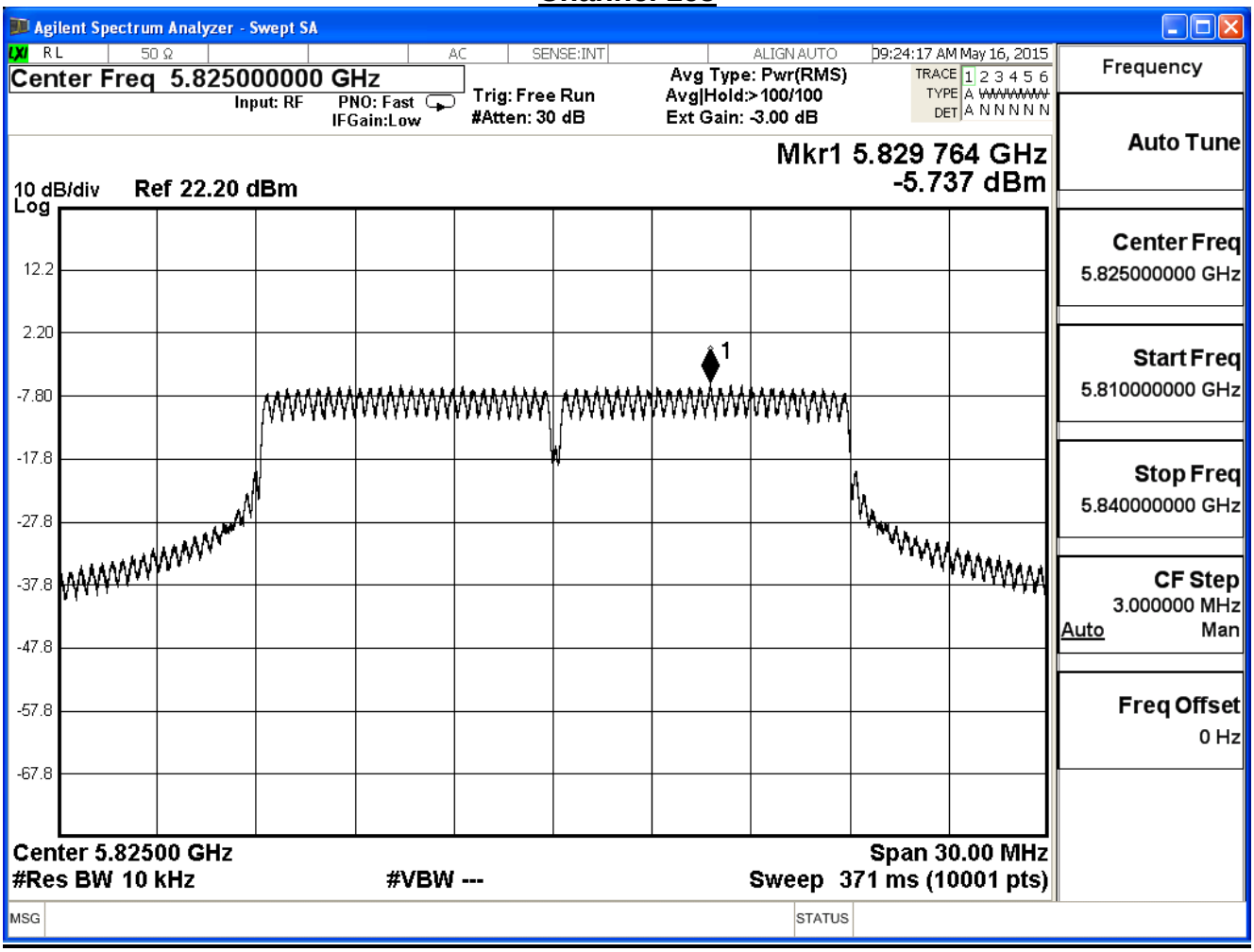
Channel 149


Agilent Spectrum Analyzer - Swept SA
Center Freq 5.745000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
09:21:19 AM May 16, 2015
Mkr1 5.739 441 GHz
-4.908 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
Center 5.74500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
Frequency
Auto Tune
Center Freq
5.745000000 GHz
Start Freq
5.730000000 GHz
Stop Freq
5.760000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:22:34 AM May 16, 2015
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.779 147 GHz
-5.392 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.78500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.770000000 GHz
Stop Freq
5.800000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz

Channel 165


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:24:17 AM May 16, 2015
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.829 764 GHz
-5.737 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.82500 GHz
#Res BW 10 kHz
#VBW ---
Span 30.00 MHz
Sweep 371 ms (10001 pts)
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.810000000 GHz
Stop Freq
5.840000000 GHz
CF Step
3.000000 MHz
Auto
Man
Freq Offset
0 Hz
MSG
STATUS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE802.11n 20MHz(ANT 0+1+2)

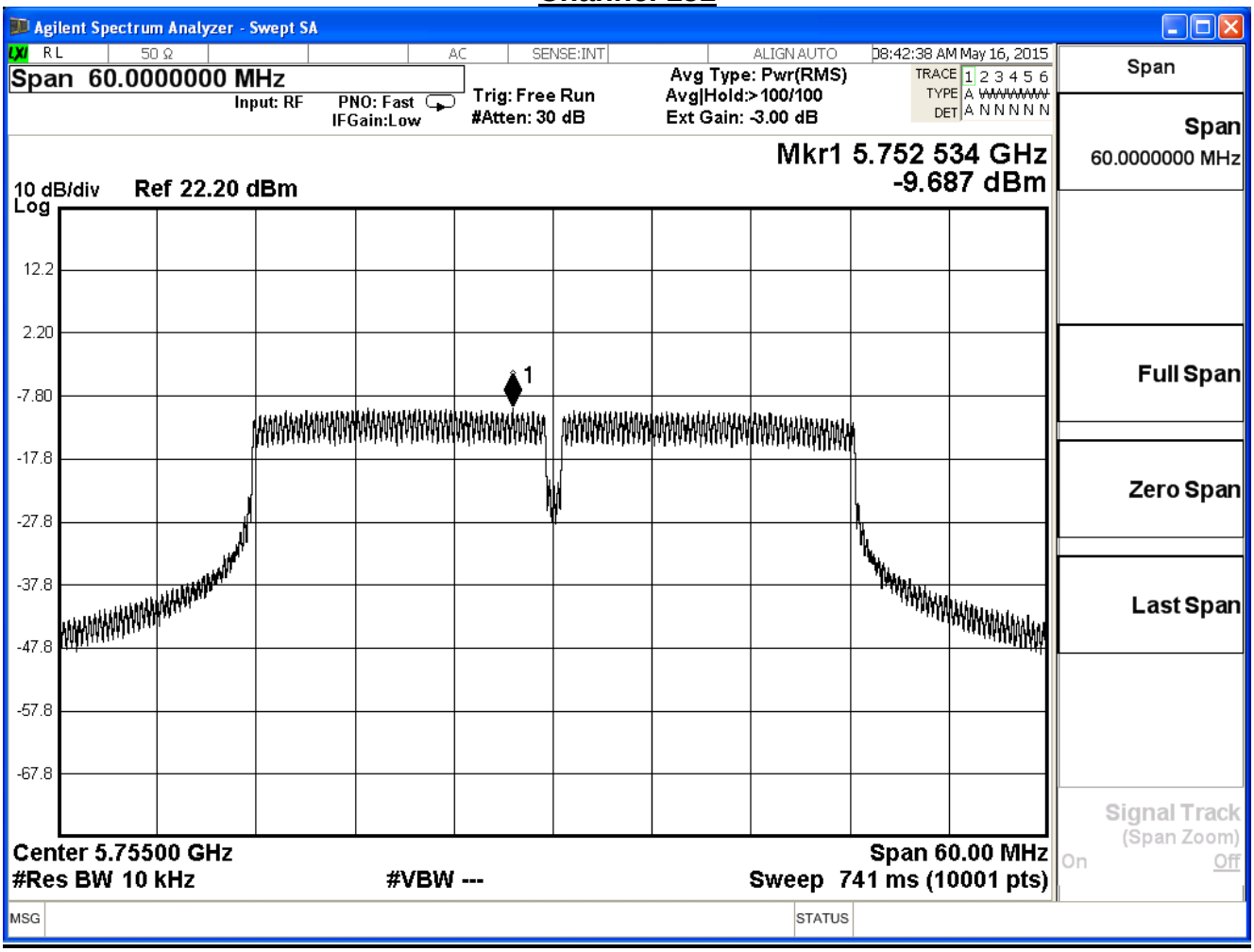
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
149	5745	17.35	≦30
157	5785	17.08	≦30
165	5825	16.64	≦30

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

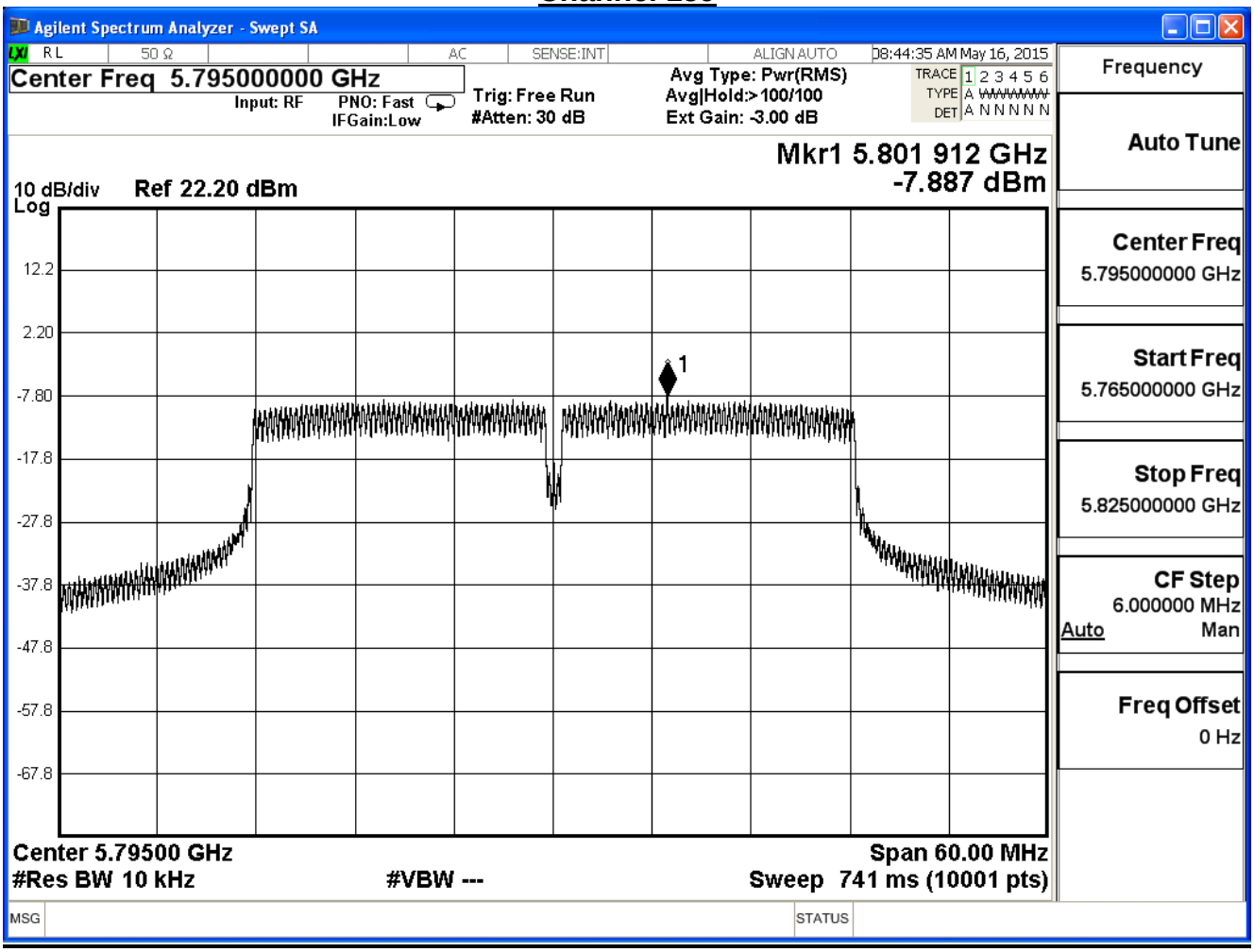
IEEE 802.11n_40MHz (ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
151	5755	-9.69	7.30	≦30
159	5795	-7.89	9.10	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 151


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:42:38 AM May 16, 2015
Span 60.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.752 534 GHz
-9.687 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.75500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Span
Span
60.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 159

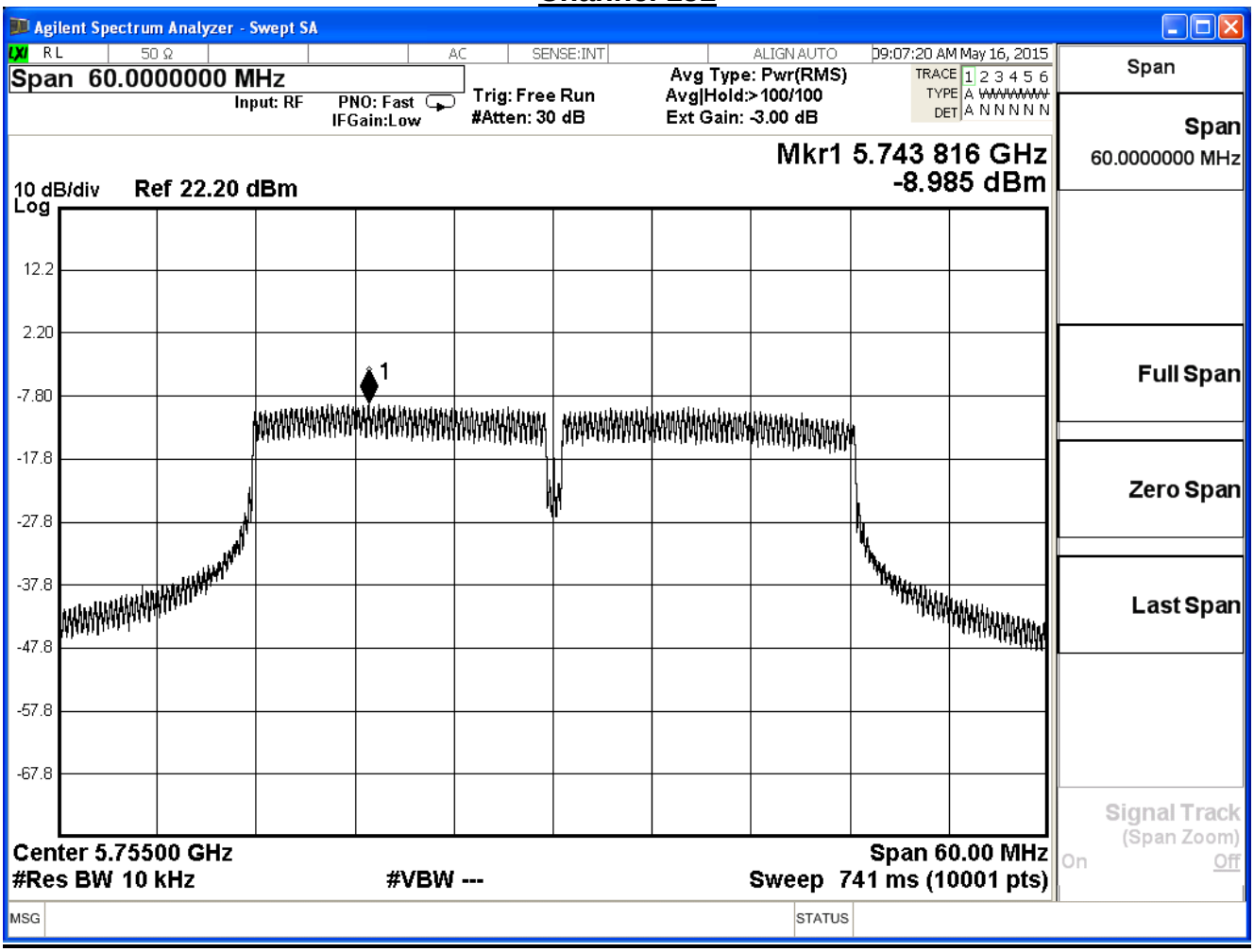

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:44:35 AM May 16, 2015
Center Freq 5.795000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.801 912 GHz
-7.887 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.79500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.765000000 GHz
Stop Freq
5.825000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

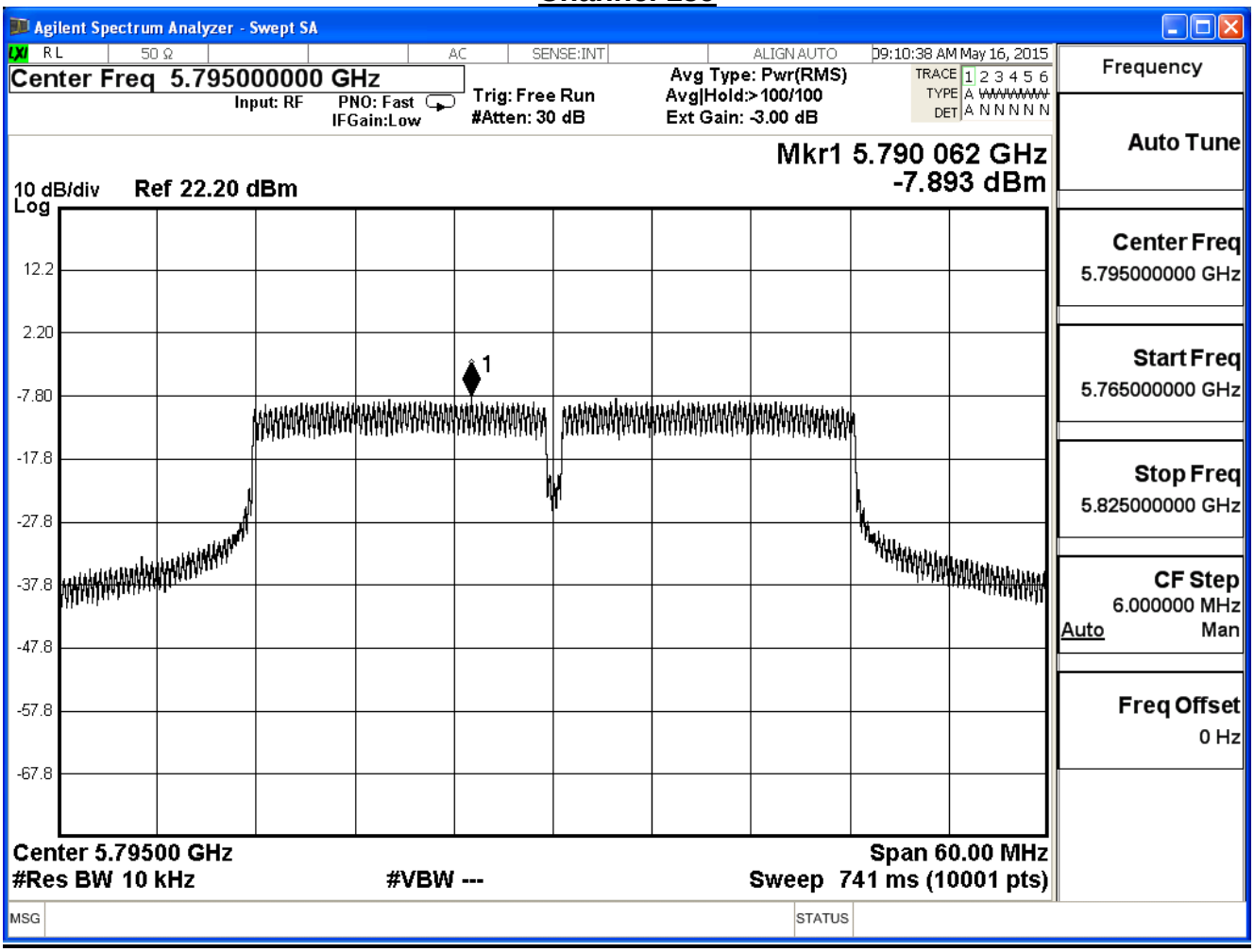
IEEE 802.11n_40MHz (ANT 1)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
151	5755	-8.99	8.00	≦30
159	5795	-7.89	9.10	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 151


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:07:20 AM May 16, 2015
Span 60.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.743 816 GHz
-8.985 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.75500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Span
Span
60.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 159

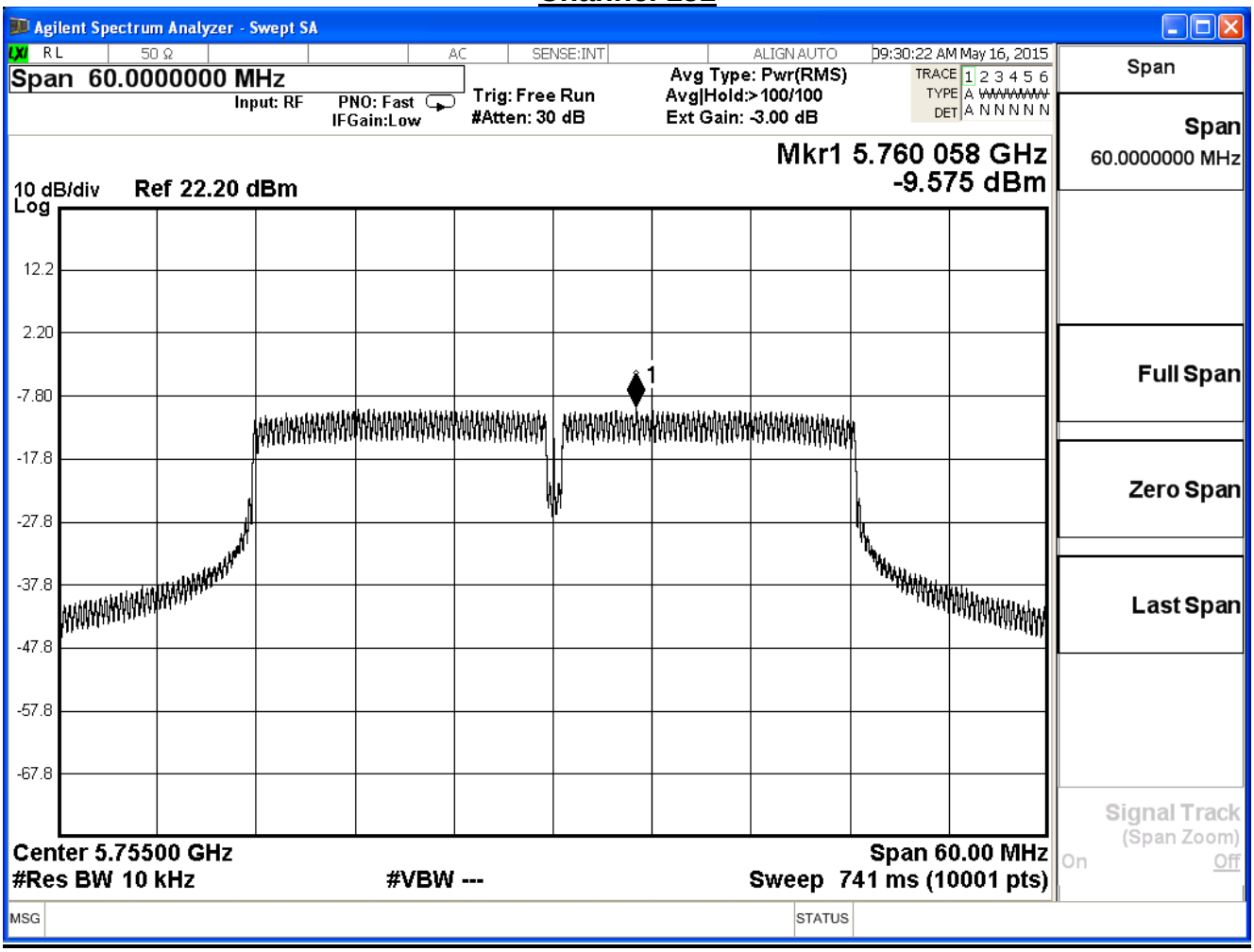

Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:10:38 AM May 16, 2015
Center Freq 5.795000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.790 062 GHz
-7.893 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.79500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.765000000 GHz
Stop Freq
5.825000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

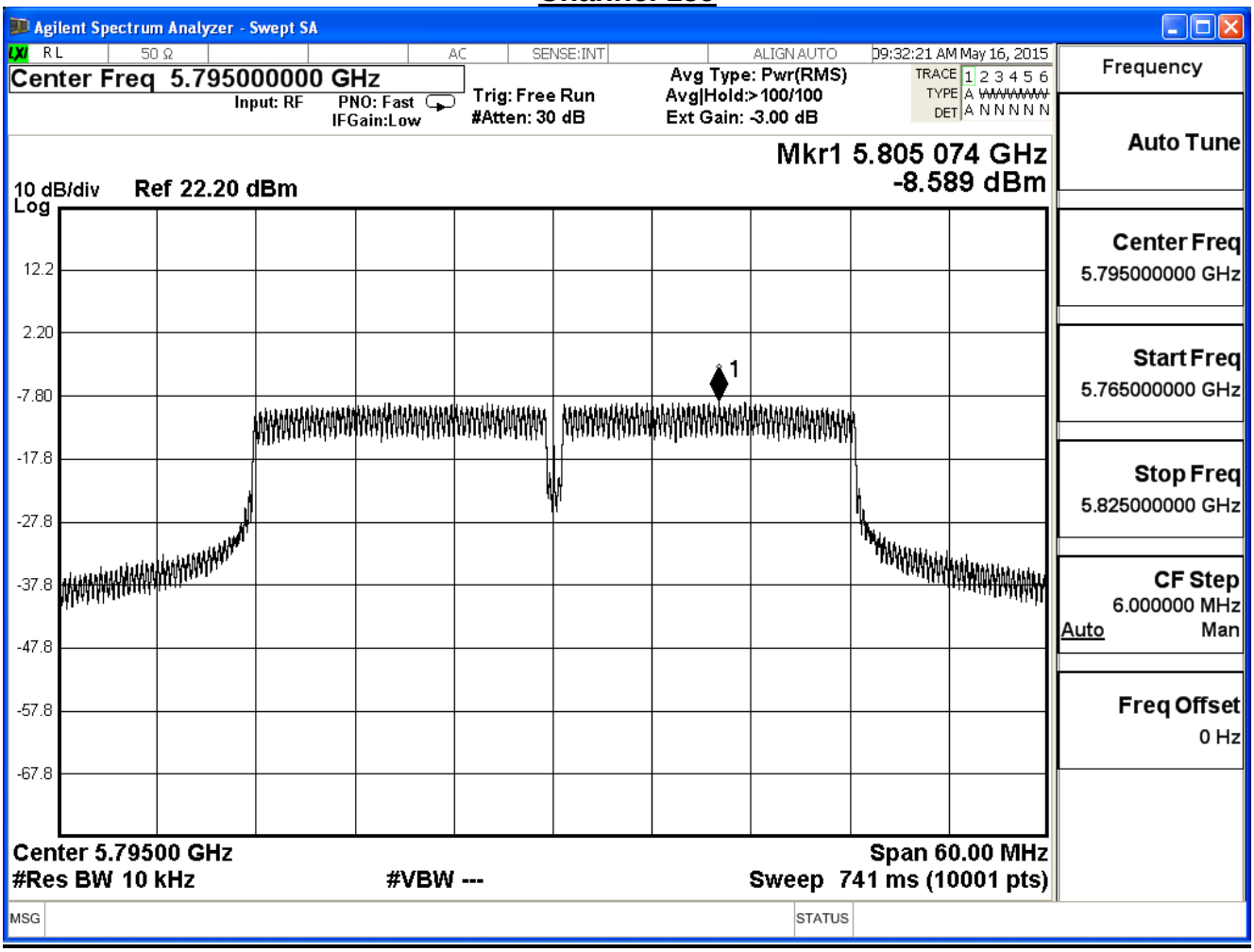
IEEE 802.11n_40MHz (ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
151	5755	-9.58	7.41	≦30
159	5795	-8.59	8.40	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 151


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:30:22 AM May 16, 2015
Span 60.0000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.760 058 GHz
-9.575 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.75500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Span
Span
60.0000000 MHz
Full Span
Zero Span
Last Span
Signal Track
(Span Zoom)
On
Off

Channel 159


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
09:32:21 AM May 16, 2015
Center Freq 5.795000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Pwr(RMS)
Avg|Hold:>100/100
Ext Gain: -3.00 dB
TRACE 1 2 3 4 5 6
TYPE A WWWWW
DET A N N N N N
Mkr1 5.805 074 GHz
-8.589 dBm
10 dB/div
Log
Ref 22.20 dBm
12.2
2.20
-7.80
-17.8
-27.8
-37.8
-47.8
-57.8
-67.8
1
Center 5.79500 GHz
#Res BW 10 kHz
#VBW ---
Span 60.00 MHz
Sweep 741 ms (10001 pts)
MSG
STATUS
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.765000000 GHz
Stop Freq
5.825000000 GHz
CF Step
6.000000 MHz
Auto
Man
Freq Offset
0 Hz

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE802.11n 40MHz(ANT 0+1+2)

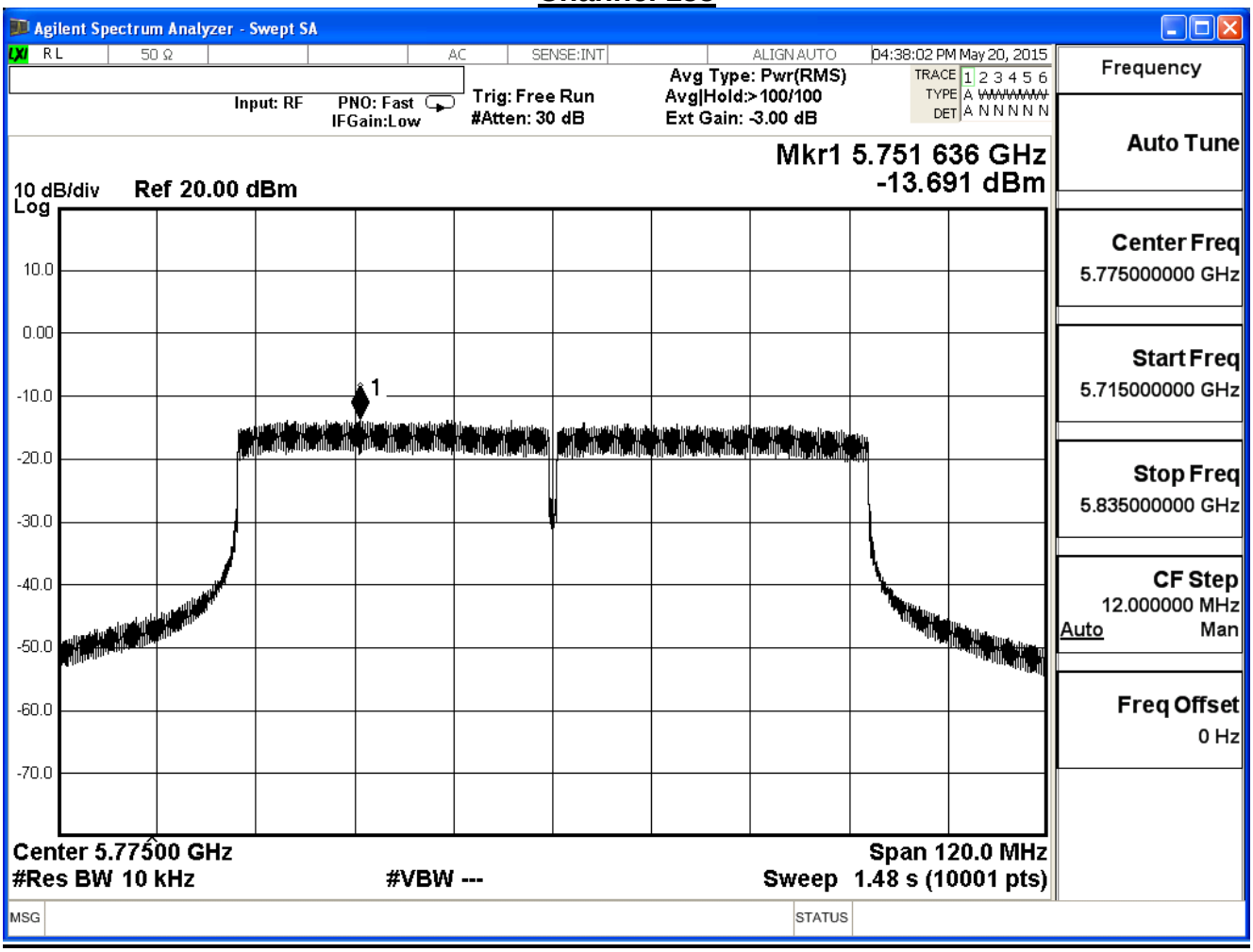
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
151	5755	12.35	≦30
159	5795	13.65	≦30

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 0)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
155	5775	-13.69	3.30	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 155

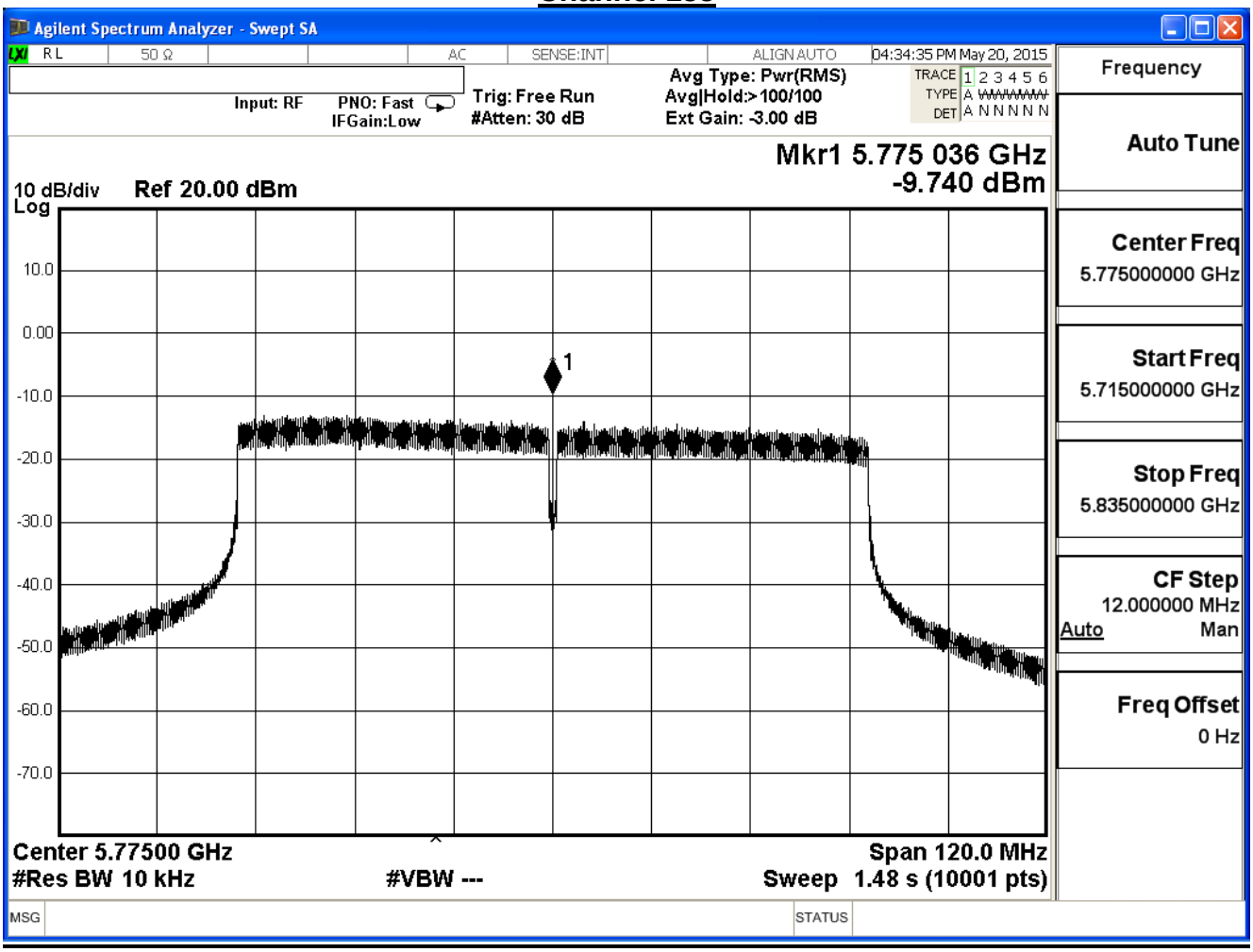


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 1)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
155	5775	-9.74	7.25	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 155

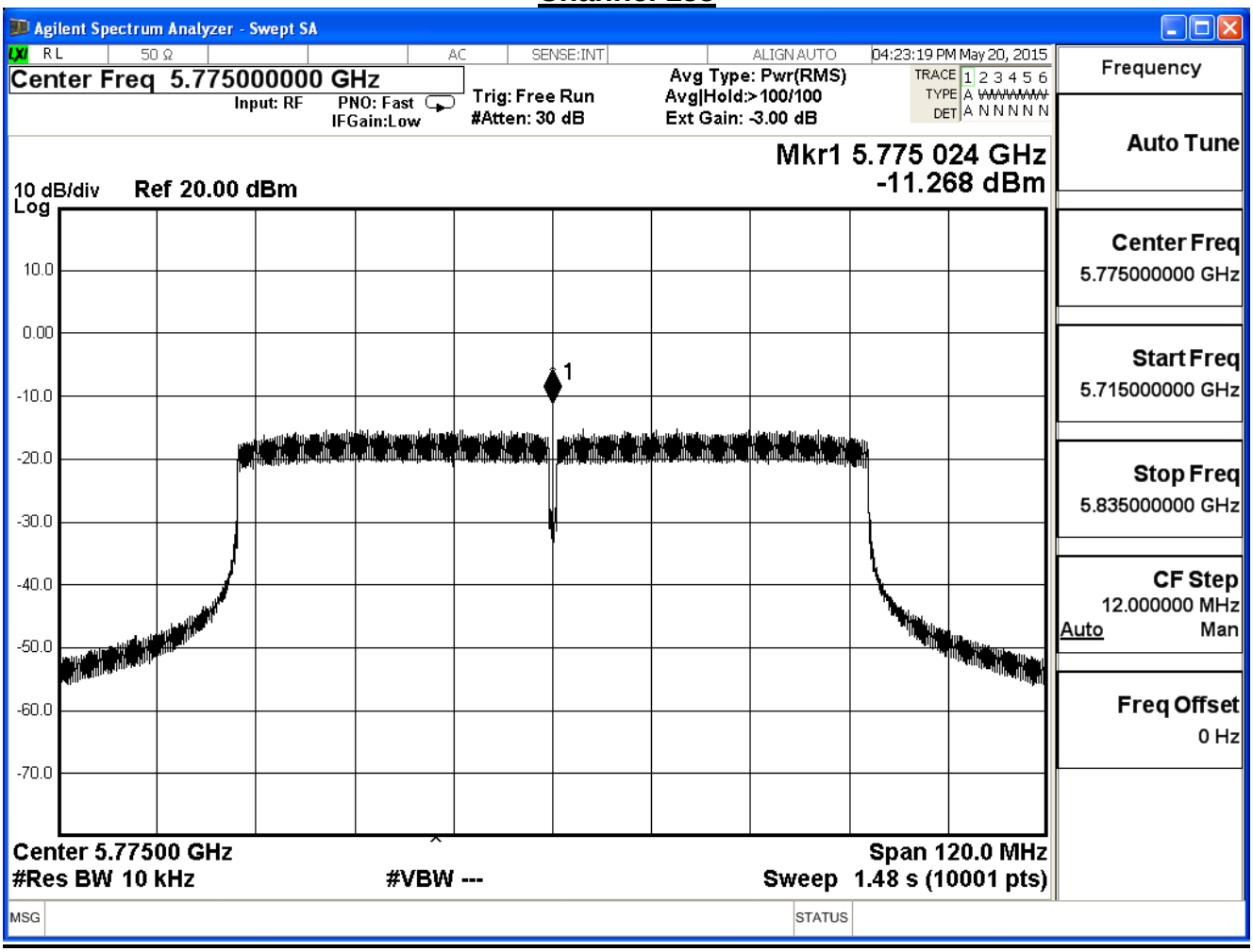


Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 2)				
Channel No.	Frequency (MHz)	Reading Level (dBm)	Measure Level (dBm)	Limit (dBm)
155	5775	-11.27	5.72	≦30

Correct factor=10 log(500KHz/10KHz)=16.99dB
Measure Level = Reading Level + correct factor

Channel 155



Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Peak Power Spectral Density		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)		
Date of Test	2015/05/18	Test Site	SR7

IEEE802.11ac 80MHz(ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
155	5775	10.48	≦30

3. Frequency Stability

3.1. Test Equipment

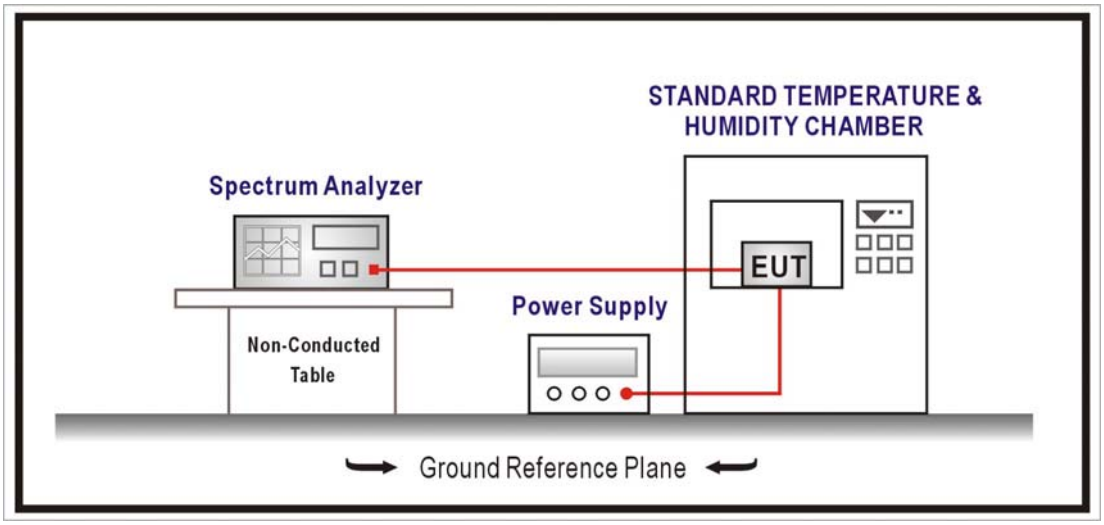
The following test equipments are used during the radiated emission tests:

Frequency Stability / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23
Temperature & Humidity Chamber	WIT	TH-1S-B	1082101	2017/01/18

Note: All equipments that need to calibrate are with calibration period of 1 year.

3.2. Test Setup



3.3. Limits

Manufactures of all devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified

3.4. Test Procedure

The EUT was setup to ANSI C63.10:2009; tested to U-NII test procedure of KDB 789033 D02 for compliance to FCC 47CFR Subpart E requirements.

3.5. Uncertainty

The measurement uncertainty is defined as ± 150 Hz

3.6. Result

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11a - 5745MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.04827	8.4012	PASS
-10		5745.01509	2.6270	PASS
0		5745.01250	2.1749	PASS
10		5744.99787	-0.3714	PASS
20		5744.99521	-0.8331	PASS
30		5744.98385	-2.8118	PASS
40		5744.99997	-0.0051	PASS
50		5744.99194	-1.4036	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.96788	-5.5907	PASS
	120	5745.00067	0.1162	PASS
	138	5744.99999	-0.0009	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11a - 5825MH(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.04339	7.4489	PASS
-10		5825.01449	2.4883	PASS
0		5825.02529	4.3421	PASS
10		5824.99203	-1.3686	PASS
20		5824.99228	-1.3249	PASS
30		5824.98470	-2.6269	PASS
40		5824.99859	-0.2414	PASS
50		5824.97975	-3.4772	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99865	-0.2318	PASS
	120	5824.99983	-0.0292	PASS
	138	5824.99974	-0.0450	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11a - 5745MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.04073	7.0904	PASS
-10		5745.00832	1.4480	PASS
0		5745.01647	2.8669	PASS
10		5744.98778	-2.1279	PASS
20		5744.99898	-0.1780	PASS
30		5744.99334	-1.1591	PASS
40		5744.99973	-0.0468	PASS
50		5744.98703	-2.2581	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.97910	-3.6380	PASS
	120	5745.00146	0.2544	PASS
	138	5744.99987	-0.0224	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11a - 5825MH(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.02993	5.1389	PASS
-10		5825.03020	5.1845	PASS
0		5825.00678	1.1646	PASS
10		5824.99781	-0.3754	PASS
20		5824.98317	-2.8889	PASS
30		5824.99295	-1.2096	PASS
40		5824.99836	-0.2816	PASS
50		5824.96573	-5.8835	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.96609	-5.8215	PASS
	120	5824.99935	-0.1109	PASS
	138	5824.99966	-0.0580	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11a - 5745MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.02168	3.7734	PASS
-10		5745.01071	1.8649	PASS
0		5745.00485	0.8442	PASS
10		5744.99953	-0.0810	PASS
20		5744.99788	-0.3687	PASS
30		5744.98924	-1.8726	PASS
40		5744.99965	-0.0612	PASS
50		5744.98192	-3.1470	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.99866	-0.2325	PASS
	120	5744.99903	-0.1692	PASS
	138	5744.99970	-0.0528	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11a - 5825MH(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.00947	1.6256	PASS
-10		5825.02706	4.6459	PASS
0		5825.02897	4.9740	PASS
10		5824.99397	-1.0355	PASS
20		5824.99619	-0.6536	PASS
30		5824.99612	-0.6666	PASS
40		5824.99906	-0.1619	PASS
50		5824.98329	-2.8679	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.97519	-4.2591	PASS
	120	5825.00038	0.0645	PASS
	138	5824.99978	-0.0370	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_20M - 5745MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.03926	6.8330	PASS
-10		5745.01857	3.2325	PASS
0		5745.00485	0.8438	PASS
10		5744.99958	-0.0740	PASS
20		5744.98467	-2.6676	PASS
30		5744.99929	-0.1231	PASS
40		5744.99977	-0.0401	PASS
50		5744.98018	-3.4504	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.98664	-2.3251	PASS
	120	5745.00015	0.0256	PASS
	138	5744.99979	-0.0365	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_20M - 5825MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.03392	5.8231	PASS
-10		5825.02403	4.1249	PASS
0		5825.00819	1.4066	PASS
10		5824.99373	-1.0767	PASS
20		5824.98933	-1.8325	PASS
30		5824.98452	-2.6582	PASS
40		5824.99723	-0.4761	PASS
50		5824.97493	-4.3042	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.98427	-2.7002	PASS
	120	5825.00028	0.0489	PASS
	138	5824.99980	-0.0348	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_20M - 5745MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.04763	8.2914	PASS
-10		5745.01945	3.3862	PASS
0		5745.01095	1.9052	PASS
10		5744.98980	-1.7749	PASS
20		5744.99672	-0.5701	PASS
30		5744.99505	-0.8613	PASS
40		5744.99650	-0.6100	PASS
50		5744.99867	-0.2314	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.97251	-4.7848	PASS
	120	5745.00061	0.1067	PASS
	138	5744.99987	-0.0221	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_20M - 5825MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.04091	7.0233	PASS
-10		5825.01700	2.9186	PASS
0		5825.01203	2.0647	PASS
10		5824.98169	-3.1437	PASS
20		5824.98364	-2.8077	PASS
30		5824.98813	-2.0377	PASS
40		5824.99856	-0.2467	PASS
50		5824.97872	-3.6525	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99324	-1.1597	PASS
	120	5824.99858	-0.2439	PASS
	138	5824.99977	-0.0400	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_20M - 5745MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.03775	6.5709	PASS
-10		5745.01861	3.2391	PASS
0		5745.01406	2.4478	PASS
10		5744.98777	-2.1281	PASS
20		5744.99551	-0.7823	PASS
30		5744.98710	-2.2460	PASS
40		5744.99958	-0.0738	PASS
50		5744.96729	-5.6938	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.97095	-5.0566	PASS
	120	5745.00160	0.2780	PASS
	138	5744.99997	-0.0047	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_20M - 5825MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.00896	1.5380	PASS
-10		5825.01322	2.2703	PASS
0		5825.01172	2.0127	PASS
10		5824.99793	-0.3546	PASS
20		5824.99142	-1.4725	PASS
30		5824.99637	-0.6224	PASS
40		5824.99668	-0.5695	PASS
50		5824.98550	-2.4893	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99870	-0.2228	PASS
	120	5825.00142	0.2437	PASS
	138	5824.99974	-0.0449	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_40M - 5755MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5755.00889	1.5443	PASS
-10		5755.02936	5.1014	PASS
0		5755.02847	4.9463	PASS
10		5754.98196	-3.1351	PASS
20		5754.98361	-2.8477	PASS
30		5754.99809	-0.3321	PASS
40		5754.99817	-0.3184	PASS
50		5754.99653	-0.6036	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5754.98012	-3.4545	PASS
	120	5754.99907	-0.1621	PASS
	138	5754.99985	-0.0264	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_40M - 5795MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5795.01922	3.3174	PASS
-10		5795.00587	1.0131	PASS
0		5795.01852	3.1950	PASS
10		5794.98605	-2.4078	PASS
20		5794.98625	-2.3729	PASS
30		5794.98734	-2.1847	PASS
40		5794.99996	-0.0073	PASS
50		5794.97364	-4.5493	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5794.96512	-6.0186	PASS
	120	5795.00094	0.1614	PASS
	138	5794.99983	-0.0285	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_40M - 5755MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5755.01390	2.4161	PASS
-10		5755.02899	5.0365	PASS
0		5755.02395	4.1615	PASS
10		5754.98970	-1.7900	PASS
20		5754.99396	-1.0504	PASS
30		5754.99872	-0.2225	PASS
40		5754.99920	-0.1396	PASS
50		5754.98146	-3.2223	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5754.96864	-5.4483	PASS
	120	5755.00017	0.0302	PASS
	138	5754.99966	-0.0597	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_40M - 5795MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5795.04835	8.3432	PASS
-10		5795.01701	2.9360	PASS
0		5795.00811	1.3987	PASS
10		5794.98339	-2.8665	PASS
20		5794.99900	-0.1733	PASS
30		5794.99871	-0.2230	PASS
40		5794.99963	-0.0641	PASS
50		5794.98257	-3.0070	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5794.97520	-4.2795	PASS
	120	5794.99981	-0.0333	PASS
	138	5794.99985	-0.0252	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_40M - 5755MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5755.03912	6.7971	PASS
-10		5755.02652	4.6088	PASS
0		5755.02484	4.3166	PASS
10		5754.99300	-1.2170	PASS
20		5754.99152	-1.4739	PASS
30		5754.98162	-3.1936	PASS
40		5754.99745	-0.4430	PASS
50		5754.97936	-3.5857	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5754.99796	-0.3539	PASS
	120	5754.99904	-0.1668	PASS
	138	5754.99972	-0.0482	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11n_40M - 5795MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5795.04064	7.0127	PASS
-10		5795.02599	4.4857	PASS
0		5795.02502	4.3169	PASS
10		5794.98013	-3.4290	PASS
20		5794.99793	-0.3575	PASS
30		5794.99534	-0.8035	PASS
40		5794.99807	-0.3329	PASS
50		5794.97795	-3.8055	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5794.96540	-5.9713	PASS
	120	5794.99889	-0.1909	PASS
	138	5794.99983	-0.0298	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11ac_80M-5775MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5775.00686	1.1884	PASS
-10		5775.02564	4.4400	PASS
0		5775.00563	0.9749	PASS
10		5774.99969	-0.0533	PASS
20		5774.98417	-2.7408	PASS
30		5774.97938	-3.5713	PASS
40		5774.99689	-0.5388	PASS
50		5774.96950	-5.2812	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5774.99443	-0.9647	PASS
	120	5775.00028	0.0477	PASS
	138	5774.99977	-0.0407	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11ac_80M-5775MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5775.01038	1.7973	PASS
-10		5775.00015	0.0257	PASS
0		5775.00636	1.1017	PASS
10		5774.98457	-2.6716	PASS
20		5774.98298	-2.9469	PASS
30		5774.98980	-1.7655	PASS
40		5774.99609	-0.6777	PASS
50		5774.95302	-8.1350	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5774.99363	-1.1033	PASS
	120	5775.00181	0.3128	PASS
	138	5774.99995	-0.0091	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 1: Tx- Horizontal Antenna (AD891M21) - 802.11ac_80M-5775MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5775.01487	2.5745	PASS
-10		5775.01816	3.1437	PASS
0		5775.02252	3.8996	PASS
10		5774.99214	-1.3609	PASS
20		5774.98781	-2.1114	PASS
30		5774.97969	-3.5173	PASS
40		5774.99915	-0.1478	PASS
50		5774.98296	-2.9503	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5774.97462	-4.3942	PASS
	120	5775.00028	0.0486	PASS
	138	5774.99977	-0.0394	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21) - 802.11a - 5745MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.04673	8.1340	PASS
-10		5745.01590	2.7668	PASS
0		5745.02881	5.0143	PASS
10		5744.99622	-0.6584	PASS
20		5744.99108	-1.5532	PASS
30		5744.99947	-0.0914	PASS
40		5744.99617	-0.6662	PASS
50		5744.96402	-6.2622	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.97401	-4.5237	PASS
	120	5744.99977	-0.0406	PASS
	138	5744.99988	-0.0215	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21) - 802.11a - 5825MH(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.03288	5.6444	PASS
-10		5825.01697	2.9127	PASS
0		5825.02128	3.6525	PASS
10		5824.99429	-0.9797	PASS
20		5824.98865	-1.9489	PASS
30		5824.98717	-2.2030	PASS
40		5824.99634	-0.6275	PASS
50		5824.99746	-0.4357	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99861	-0.2381	PASS
	120	5824.99873	-0.2188	PASS
	138	5824.99996	-0.0073	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21) - 802.11a - 5745MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.01094	1.9040	PASS
-10		5745.02980	5.1872	PASS
0		5745.01206	2.0992	PASS
10		5744.99292	-1.2329	PASS
20		5744.99854	-0.2549	PASS
30		5744.99757	-0.4224	PASS
40		5744.99884	-0.2025	PASS
50		5744.95009	-8.6880	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.96898	-5.3993	PASS
	120	5744.99881	-0.2075	PASS
	138	5744.99991	-0.0162	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21) - 802.11a - 5825MH(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.01132	1.9431	PASS
-10		5825.00702	1.2045	PASS
0		5825.00149	0.2557	PASS
10		5824.99475	-0.9019	PASS
20		5824.98075	-3.3052	PASS
30		5824.99791	-0.3588	PASS
40		5824.99810	-0.3269	PASS
50		5824.96969	-5.2037	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99689	-0.5342	PASS
	120	5825.00148	0.2534	PASS
	138	5824.99990	-0.0177	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21) - 802.11a - 5745MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.03485	6.0659	PASS
-10		5745.00928	1.6148	PASS
0		5745.01663	2.8951	PASS
10		5744.98218	-3.1019	PASS
20		5744.99220	-1.3583	PASS
30		5744.98326	-2.9145	PASS
40		5744.99776	-0.3897	PASS
50		5744.99880	-0.2089	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.97744	-3.9271	PASS
	120	5745.00046	0.0807	PASS
	138	5744.99981	-0.0331	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21) - 802.11a - 5825MH(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.00486	0.8345	PASS
-10		5825.02945	5.0563	PASS
0		5825.01459	2.5055	PASS
10		5824.98906	-1.8775	PASS
20		5824.99470	-0.9098	PASS
30		5824.97993	-3.4463	PASS
40		5824.99626	-0.6419	PASS
50		5824.98849	-1.9759	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.97718	-3.9170	PASS
	120	5825.00001	0.0015	PASS
	138	5824.99999	-0.0017	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21) - 802.11n_20M - 5745MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.01199	2.0874	PASS
-10		5745.02063	3.5910	PASS
0		5745.01664	2.8969	PASS
10		5744.98621	-2.4007	PASS
20		5744.98045	-3.4038	PASS
30		5744.98446	-2.7053	PASS
40		5744.99961	-0.0683	PASS
50		5744.96894	-5.4069	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.98603	-2.4308	PASS
	120	5744.99889	-0.1928	PASS
	138	5744.99970	-0.0522	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21) - 802.11n_20M - 5825MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.03001	5.1523	PASS
-10		5825.00292	0.5008	PASS
0		5825.01338	2.2971	PASS
10		5824.99702	-0.5112	PASS
20		5824.98023	-3.3933	PASS
30		5824.98574	-2.4482	PASS
40		5824.99705	-0.5067	PASS
50		5824.96911	-5.3025	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99236	-1.3110	PASS
	120	5825.00171	0.2940	PASS
	138	5824.99967	-0.0566	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_20M - 5745MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.00854	1.4860	PASS
-10		5745.02952	5.1389	PASS
0		5745.01372	2.3875	PASS
10		5744.98408	-2.7716	PASS
20		5744.99484	-0.8986	PASS
30		5744.99899	-0.1759	PASS
40		5744.99774	-0.3936	PASS
50		5744.96291	-6.4554	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.98972	-1.7894	PASS
	120	5745.00048	0.0831	PASS
	138	5744.99982	-0.0309	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_20M - 5825MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.01795	3.0819	PASS
-10		5825.02538	4.3575	PASS
0		5825.00482	0.8267	PASS
10		5824.98569	-2.4565	PASS
20		5824.98348	-2.8355	PASS
30		5824.99710	-0.4982	PASS
40		5824.99732	-0.4603	PASS
50		5824.96421	-6.1437	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99230	-1.3211	PASS
	120	5825.00149	0.2550	PASS
	138	5824.99969	-0.0536	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_20M - 5745MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5745.00952	1.6575	PASS
-10		5745.02814	4.8976	PASS
0		5745.02611	4.5455	PASS
10		5744.99935	-0.1137	PASS
20		5744.99598	-0.6990	PASS
30		5744.98223	-3.0930	PASS
40		5744.99791	-0.3637	PASS
50		5744.97255	-4.7783	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5744.98783	-2.1178	PASS
	120	5745.00005	0.0080	PASS
	138	5744.99980	-0.0342	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_20M - 5825MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5825.04060	6.9706	PASS
-10		5825.01414	2.4283	PASS
0		5825.00164	0.2820	PASS
10		5824.98957	-1.7900	PASS
20		5824.99385	-1.0553	PASS
30		5824.98628	-2.3555	PASS
40		5824.99910	-0.1545	PASS
50		5824.96295	-6.3601	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5824.99138	-1.4801	PASS
	120	5824.99984	-0.0278	PASS
	138	5824.99985	-0.0263	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_40M - 5755MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5755.03368	5.8521	PASS
-10		5755.01561	2.7125	PASS
0		5755.01340	2.3276	PASS
10		5754.98289	-2.9735	PASS
20		5754.99892	-0.1883	PASS
30		5754.98661	-2.3269	PASS
40		5754.99743	-0.4466	PASS
50		5754.95998	-6.9547	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5754.97426	-4.4729	PASS
	120	5754.99963	-0.0643	PASS
	138	5754.99966	-0.0588	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_40M - 5795MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5795.04296	7.4130	PASS
-10		5795.02107	3.6362	PASS
0		5795.02423	4.1818	PASS
10		5794.98326	-2.8883	PASS
20		5794.99008	-1.7116	PASS
30		5794.98716	-2.2154	PASS
40		5794.99868	-0.2279	PASS
50		5794.97694	-3.9801	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5794.99521	-0.8273	PASS
	120	5794.99980	-0.0340	PASS
	138	5794.99994	-0.0104	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_40M - 5755MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5755.04115	7.1509	PASS
-10		5755.00973	1.6916	PASS
0		5755.00733	1.2730	PASS
10		5754.98221	-3.0915	PASS
20		5754.98238	-3.0609	PASS
30		5754.98722	-2.2213	PASS
40		5754.99977	-0.0403	PASS
50		5754.97445	-4.4390	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5754.97023	-5.1730	PASS
	120	5755.00198	0.3438	PASS
	138	5754.99993	-0.0122	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_40M - 5795MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5795.02837	4.8949	PASS
-10		5795.03233	5.5794	PASS
0		5795.02498	4.3109	PASS
10		5794.98284	-2.9617	PASS
20		5794.99457	-0.9369	PASS
30		5794.98045	-3.3740	PASS
40		5794.99991	-0.0148	PASS
50		5794.97047	-5.0955	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5794.98920	-1.8629	PASS
	120	5795.00034	0.0585	PASS
	138	5794.99999	-0.0012	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_40M - 5755MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5755.02940	5.1087	PASS
-10		5755.01523	2.6470	PASS
0		5755.00500	0.8693	PASS
10		5754.98393	-2.7931	PASS
20		5754.98835	-2.0242	PASS
30		5754.99088	-1.5850	PASS
40		5754.99699	-0.5233	PASS
50		5754.98549	-2.5213	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5754.99274	-1.2619	PASS
	120	5755.00173	0.3015	PASS
	138	5754.99975	-0.0434	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11n_40M - 5795MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5795.01419	2.4487	PASS
-10		5795.00550	0.9484	PASS
0		5795.00878	1.5145	PASS
10		5794.99248	-1.2984	PASS
20		5794.99612	-0.6700	PASS
30		5794.98531	-2.5355	PASS
40		5794.99607	-0.6777	PASS
50		5794.97735	-3.9092	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5794.97167	-4.8880	PASS
	120	5795.00137	0.2361	PASS
	138	5794.99987	-0.0220	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11ac_80M-5775MHz(ANT 0)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5775.00836	1.4479	PASS
-10		5775.03302	5.7180	PASS
0		5775.01563	2.7057	PASS
10		5774.99911	-0.1534	PASS
20		5774.99047	-1.6503	PASS
30		5774.97945	-3.5577	PASS
40		5774.99985	-0.0256	PASS
50		5774.96190	-6.5978	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5774.98769	-2.1312	PASS
	120	5775.00020	0.0344	PASS
	138	5774.99993	-0.0117	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11ac_80M-5775MHz(ANT 1)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5775.04494	7.7826	PASS
-10		5775.02233	3.8675	PASS
0		5775.00883	1.5296	PASS
10		5774.99086	-1.5834	PASS
20		5774.98494	-2.6077	PASS
30		5774.98631	-2.3711	PASS
40		5774.99746	-0.4390	PASS
50		5774.95199	-8.3137	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5774.98925	-1.8614	PASS
	120	5775.00021	0.0359	PASS
	138	5774.99974	-0.0444	PASS

Product	ASUS SRT-AC1900 Wireless Smart Router		
Test Item	Frequency Stability		
Test Mode	Mode 2: Tx- Vertical Antenna (AD891M21)- 802.11ac_80M-5775MHz(ANT 2)		
Date of Test	2016/03/29	Test Site	SR7

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
-20	120	5775.03426	5.9319	PASS
-10		5775.00857	1.4840	PASS
0		5775.00158	0.2739	PASS
10		5774.98311	-2.9251	PASS
20		5774.98967	-1.7887	PASS
30		5774.98301	-2.9418	PASS
40		5774.99848	-0.2633	PASS
50		5774.95813	-7.2510	PASS

Temperature Interval (°C)	AC Voltage (V)	Frequency (MHz)	Deviation (ppm)	Result
25	102	5774.98419	-2.7371	PASS
	120	5774.99876	-0.2152	PASS
	138	5774.99970	-0.0513	PASS

Attachment 1

- **Original Report**