FCC Test Report

Product Name ： Dual-band Wireless-AC1200 Range Extender

Model No. ： RP-AC56, RP-AC1200

FCC ID. ： MSQ-RPAC56

Applicant ： ASUSTeK COMPUTER INC.

Address ： 4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan

Date of Receipt ： 2015/04/10

Issued Date ： 2015/05/22

Report No. ： 1540255R-RFUSP28V00

Report Version ： V3.0

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 : 2015/05/22
Report No. : 1540255R-RFUSP28V00

Product Name	:	Dual-band Wireless-AC1200 Range Extender
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	ASUSTeK COMPUTER INC.
Model No.	:	RP-AC56, RP-AC1200
FCC ID.	:	MSQ-RPAC56
EUT Voltage	:	AC 100-240V, 50-60Hz
Trade Name	:	ASUS
Applicable Standard	:	FCC CFR Title 47 Part 15 Subpart C Section 15.247:2014 ANSI C63.10: 2009
Test Result	:	Complied

The test results relate only to the samples tested.
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Documented By :

(Demi Chang / Engineering Adm. Specialist)

Reviewed By :

(Jimmie Liu / Senior Engineer)

Approved By :

(Roy Wang / Director)

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: 150981**

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:

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1. General Information

1.1. EUT Description

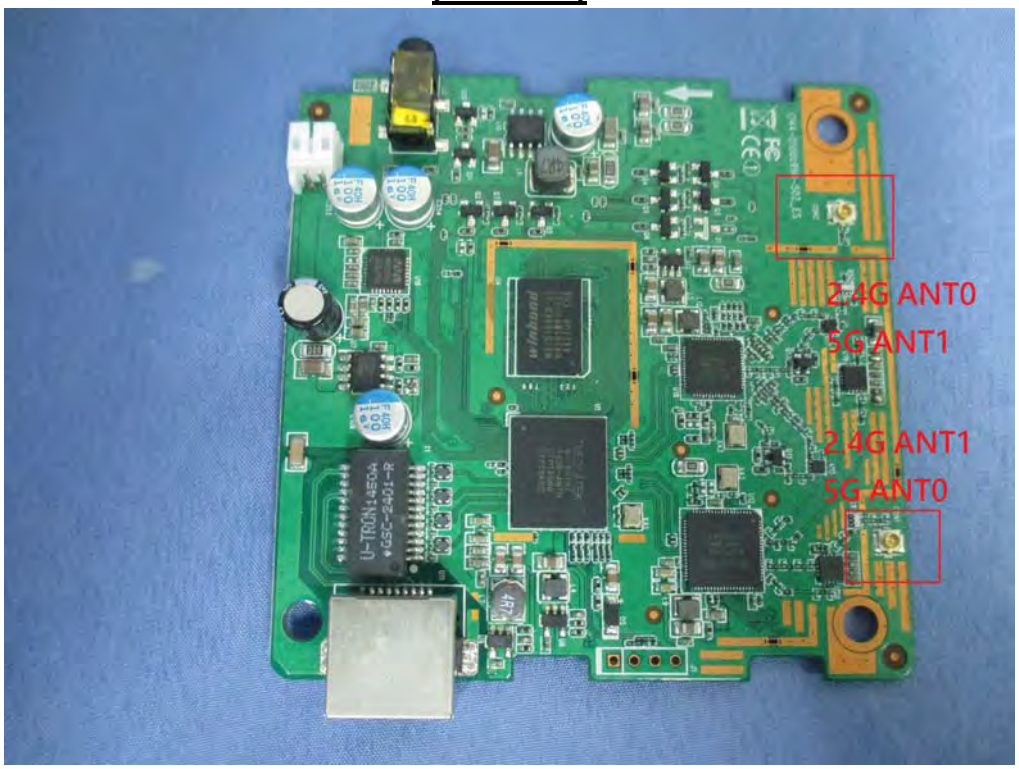
Product Name	Dual-band Wireless-AC1200 Range Extender
Product Type	WLAN(2TX,2RX)
Trade Name	ASUS
Model No.	RP-AC56, RP-AC1200
Frequency Range/Channel Number -IEEE 802.11b/g & IEEE 802.11n (20MHz)_2.4GHz	2412~2462MHz / 11 Channels
Frequency Range/Channel Number -IEEE 802.11n (40MHz) _2.4GHz	2422~2452MHz / 7 Channels
Frequency Range/Channel Number -IEEE 802.11a& IEEE 802.11n (20MHz)_5.8GHz	5745~5825MHz / 5 Channels
Frequency Range/Channel Number -IEEE 802.11n (40MHz) _5.8GHz	5755~5795MHz / 2 Channels
Frequency Range/Channel Number -IEEE 802.11ac (80MHz) _5.8GHz	5775~5775MHz / 1 Channel
Type of Modulation (IEEE 802.11b)	Direct Sequence Spread Spectrum (DSSS)
Type of Modulation (IEEE 802.11a/g/n)	Orthogonal Frequency Division Multiplexing (OFDM)
Data Speed (IEEE 802.11b)	1Mbps, 2Mbps, 5.5Mbps, 11Mbps
Data Speed (IEEE 802.11a/g)	6Mbps,9Mbps,12Mbps,18Mbps,24Mbps,36Mbps,48Mbps,54Mbps
Data Speed (IEEE 802.11n)	Support a subset of the combination of GI, MCS 0~MCS 15 and bandwidth defined in 802.11n
Data Speed (IEEE 802.11ac)	Support a subset of the combination of GI, MCS 0~MCS 9 and bandwidth defined in 802.11ac

Antenna infomation	
Vender/Model	Walsin / RFDPA101306IMLB301 Walsin / RFDPA141006MLB301
Antenna Type	Dipole Antenna
Antenna Gain	2.4G:Ant0:2dBi, Ant1:2dBi 5G Band1: Ant0:4dBi, Ant1:4dBi 5G Band4: Ant0:4dBi, Ant1:4dBi

ANT-TX / RX & Bandwidth

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

(2TX / 2RX)



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

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	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

IEEE 802.11b/g & IEEE 802.11n (20MHz) - 2.4GHz

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
001	2412 MHz	002	2417 MHz	003	2422 MHz	004	2427 MHz
005	2432 MHz	006	2437 MHz	007	2442 MHz	008	2447 MHz
009	2452 MHz	010	2457 MHz	011	2462 MHz		

IEEE 802.11n (40MHz) - 2.4GHz

Working Frequency of Each Channel							
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
003	2422 MHz	004	2427 MHz	005	2432 MHz	006	2437 MHz
007	2442 MHz	008	2447 MHz	009	2452 MHz		

IEEE 802.11a & IEEE 802.11n (20MHz) - 5.8GHz

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

IEEE 802.11n (40MHz) - 5.8GHz

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

IEEE 802.11ac (80MHz) - 5.8GHz

Working Frequency of Each Channel	
Channel	Frequency
155	5775 MHz

Note:

1. This device is a Dual-band Wireless-AC1200 Range Extender including 2.4GHz b/g/n and 5GHz a/n (2x2) transmitting and receiving function.
2. The variation of model number is for different strategy of marketing.
3. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
4. 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.
5. The function of the 5.2GHz transmitting is measured and makes a test report of the report number: 1540255R-RFUSP56V00.
6. This device is a composite device in accordance with Part 15 regulations. The receiving function receiving was tested and its test report number is 1540255R-RFUSP01V00 under Declaration of Conformity.

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: Transmit

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1	Complies
	11ac(80MHz)	155	0+1	Complies
Peak Power Output	11a	149/ 157/ 165	0+1	Complies
	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	11ac(80MHz)	155	0+1	Complies
Radiated Emission	11a	149/ 157/ 165	0+1	Complies
	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	11ac(80MHz)	155	0+1	Complies
RF antenna conducted test	11a	149/ 157/ 165	0/1	Complies
	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0/1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0/1	Complies
	11ac(80MHz)	155	0/1	Complies
Radiated Emission Band Edge	11a	149/ 157/ 165	0+1	Complies
	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	11ac(80MHz)	155	0+1	Complies
Occupied Bandwidth	11a	149/ 157/ 165	0/1	Complies
	11b/g	1/ 6/ 11	0/1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0/1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0/1	Complies
	11ac(80MHz)	155	0/1	Complies
Power Density	11a	149/ 157/ 165	0+1	Complies
	11b/g	1/ 6/ 11	0+1	Complies
	11n(20MHz)	1/ 6/ 11/ 149/ 157/ 165	0+1	Complies
	11n(40MHz)	3/ 6/ 9/ 151/ 159	0+1	Complies
	11ac(80MHz)	155	0+1	Complies

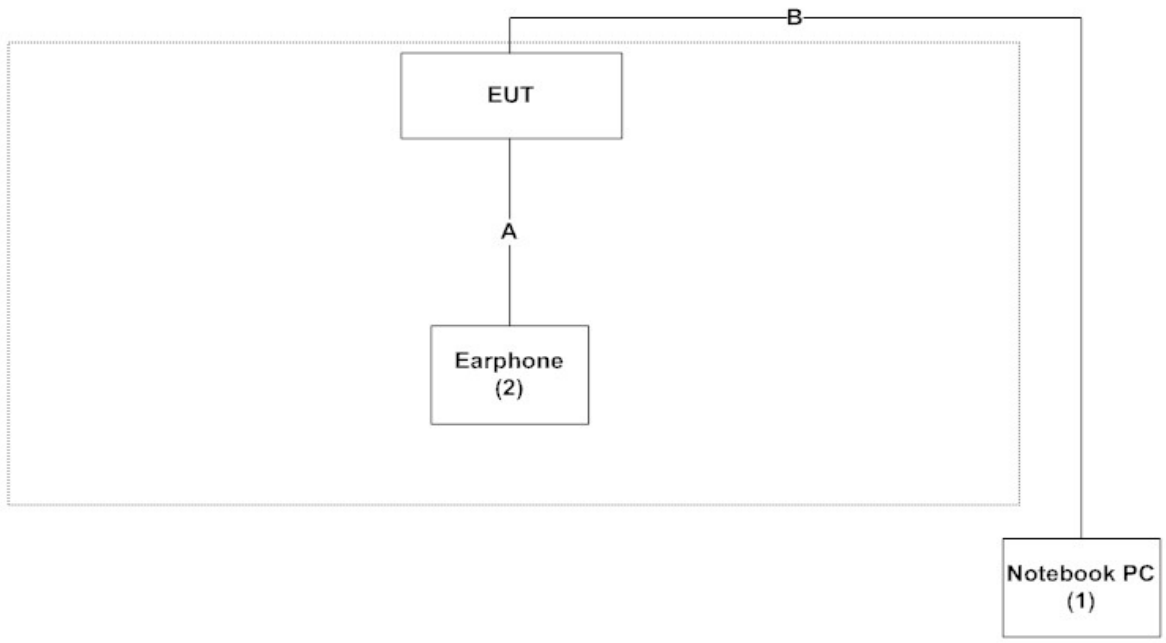
1.3. Tested System Details

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	--
2	Earphone	Apple	N/A	N/A	DoC	--

1.4. Configuration of tested System

Connection Diagram



Signal Cable Type		Signal cable Description
A	Earphone Cable	Non-Shielded, 1m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute the QA Tool 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 C 15.207 Conducted Emission	15 - 35	20
Humidity (%RH)		25 - 75	50
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Peak Power Output	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Radiated Emission	15 - 35	25
Humidity (%RH)		25 - 75	65
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 RF antenna conducted test	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Band Edge	15 - 35	25
Humidity (%RH)		25 - 75	48
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Occupied Bandwidth	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000
Temperature (°C)	FCC PART 15 C 15.247 Power Density	15 - 35	25
Humidity (%RH)		25 - 75	45
Barometric pressure (mbar)		860 - 1060	950-1000

2. Conducted Emission

2.1. Test Equipment

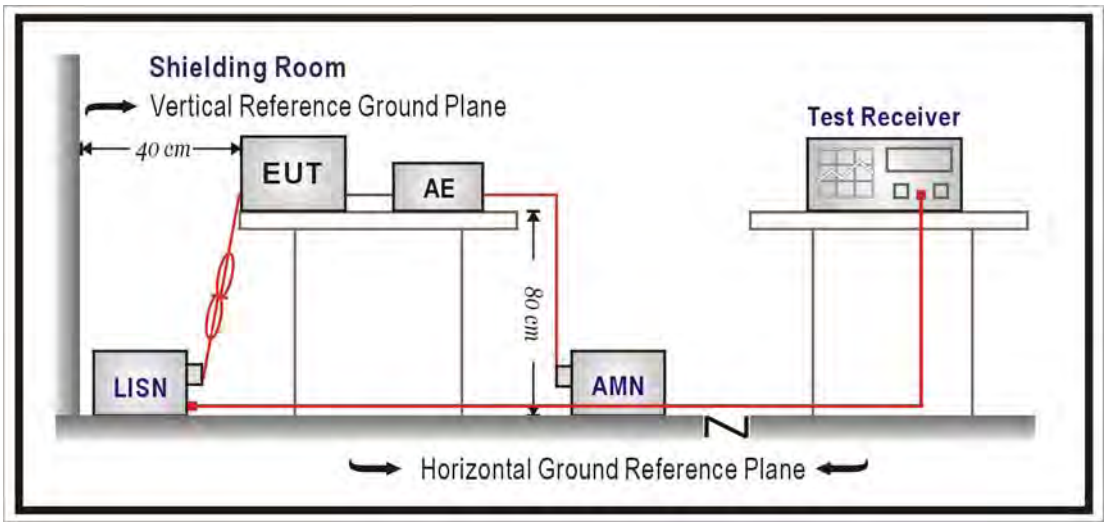
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2015/08/10
LISN	R&S	ESH3-Z5	836679/022	2015/12/15
Test Receiver	R&S	ESCS 30	825442/017	2016/01/14

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

2.2. Test Setup



2.3. Limits

FCC Part 15 Subpart C Paragraph 15.207 Limits (dBuV)		
Frequency MHz	QP	AV
0.15 - 0.50	66-56	56-46
0.50 - 5.0	56	46
5.0 - 30	60	50

Remarks: In the above table, the tighter limit applies at the band edges.

2.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009 and tested according to DTS test procedure of KDB558074 for compliance to FCC 47CFR 15.247 requirements.
The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs.)
Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.

2.5. Test Specification

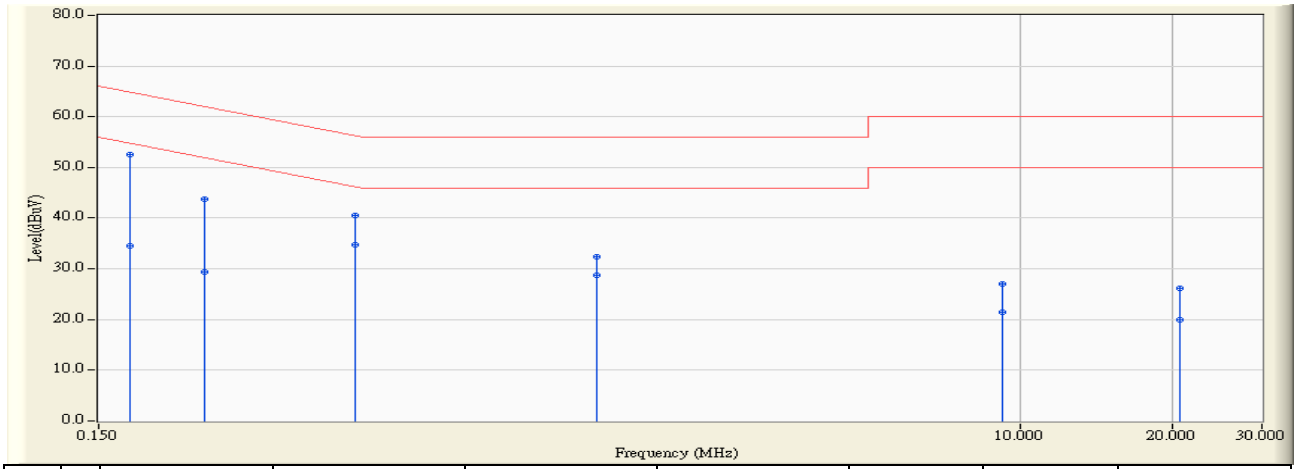
According to FCC Part 15 Subpart C Paragraph 15.207: 2014

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

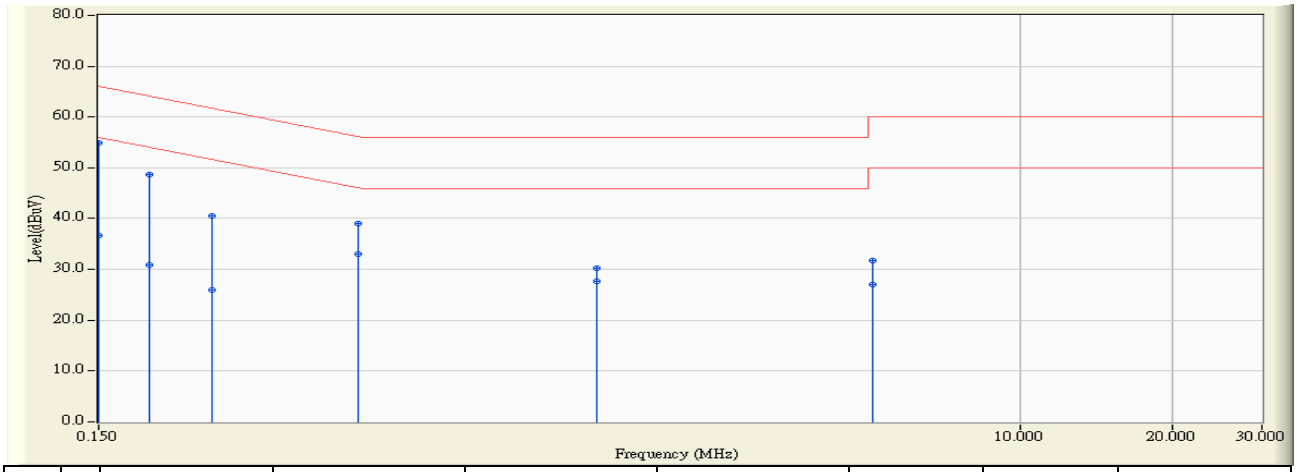
Site : SR3	**Time : 2015/05/11 - 20:05**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A)-4_0811 - Line1	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit 802.11n(40MHz)_2437MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.173	9.668	42.840	52.507	-12.287	64.794	QUASIPEAK
2		0.173	9.668	24.830	34.497	-20.297	54.794	AVERAGE
3		0.244	9.705	33.950	43.654	-18.313	61.967	QUASIPEAK
4		0.244	9.705	19.660	29.364	-22.603	51.967	AVERAGE
5		0.482	9.829	30.630	40.459	-15.845	56.304	QUASIPEAK
6	*	0.482	9.829	24.970	34.799	-11.505	46.304	AVERAGE
7		1.447	9.950	22.390	32.340	-23.660	56.000	QUASIPEAK
8		1.447	9.950	18.870	28.820	-17.180	46.000	AVERAGE
9		9.173	10.113	17.010	27.123	-32.877	60.000	QUASIPEAK
10		9.173	10.113	11.240	21.353	-28.647	50.000	AVERAGE
11		20.615	10.121	16.080	26.201	-33.799	60.000	QUASIPEAK
12		20.615	10.121	9.850	19.971	-30.029	50.000	AVERAGE

Note:
1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

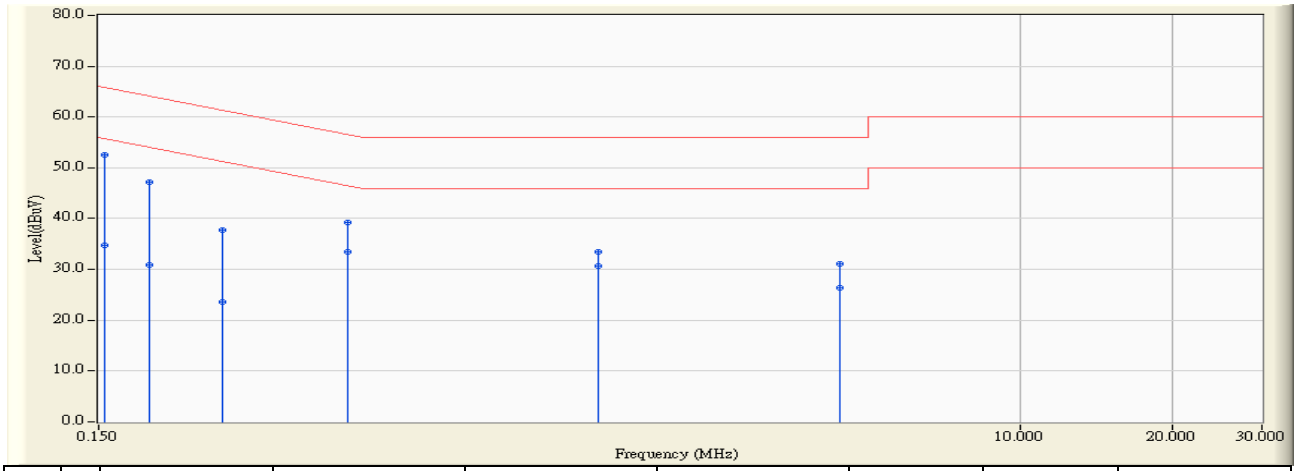
Site : SR3	**Time : 2015/05/11 - 20:09**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A)-4_0811 - Line2	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit 802.11n(40MHz)_2437MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.150	9.657	45.210	54.867	-11.133	66.000	QUASIPEAK
2		0.150	9.657	26.920	36.577	-29.423	66.000	AVERAGE
3		0.189	9.662	39.050	48.712	-15.368	64.080	QUASIPEAK
4		0.189	9.662	21.190	30.852	-33.228	64.080	AVERAGE
5		0.252	9.701	30.880	40.581	-21.110	61.691	QUASIPEAK
6		0.252	9.701	16.200	25.901	-35.790	61.691	AVERAGE
7		0.490	9.832	29.110	38.942	-17.226	56.168	QUASIPEAK
8		0.490	9.832	23.270	33.102	-23.066	56.168	AVERAGE
9		1.451	9.955	20.280	30.235	-25.765	56.000	QUASIPEAK
10		1.451	9.955	17.750	27.705	-28.295	56.000	AVERAGE
11		5.085	10.098	21.610	31.708	-28.292	60.000	QUASIPEAK
12		5.085	10.098	16.970	27.068	-32.932	60.000	AVERAGE

Note:
1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

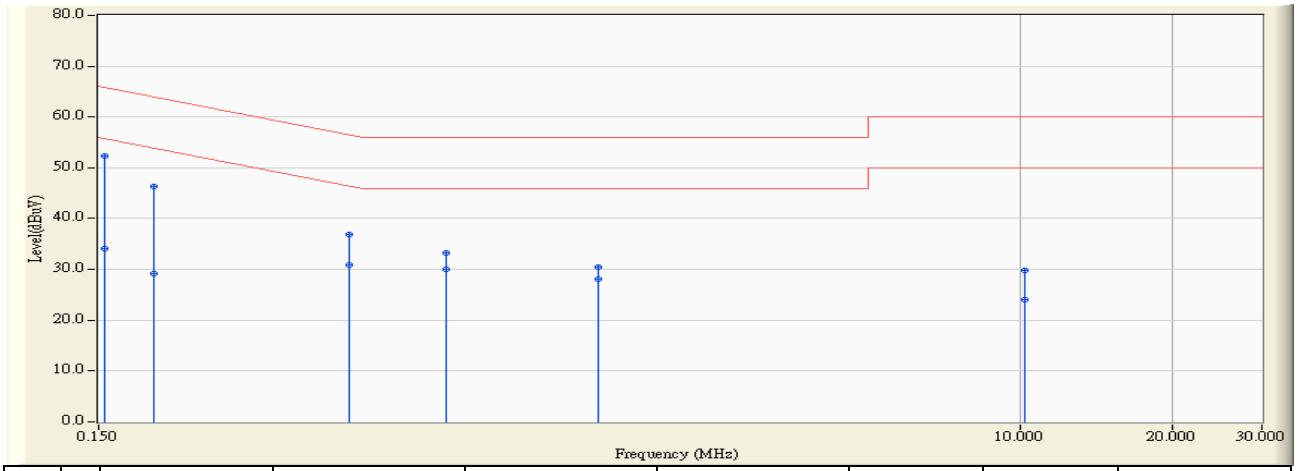
Site : SR3	**Time : 2015/05/11 - 20:22**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A)-4_0811 - Line1	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit 802.11ac80_5775MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.663	42.840	52.503	-13.278	65.781	QUASIPEAK
2		0.154	9.663	24.990	34.653	-31.128	65.781	AVERAGE
3		0.189	9.671	37.550	47.221	-16.859	64.080	QUASIPEAK
4		0.189	9.671	21.250	30.921	-33.159	64.080	AVERAGE
5		0.263	9.712	27.990	37.702	-23.635	61.336	QUASIPEAK
6		0.263	9.712	13.970	23.682	-37.655	61.336	AVERAGE
7		0.466	9.823	29.380	39.203	-17.381	56.585	QUASIPEAK
8	*	0.466	9.823	23.710	33.533	-23.051	56.585	AVERAGE
9		1.459	9.950	23.420	33.370	-22.630	56.000	QUASIPEAK
10		1.459	9.950	20.820	30.770	-25.230	56.000	AVERAGE
11		4.377	10.053	20.990	31.043	-24.957	56.000	QUASIPEAK
12		4.377	10.053	16.360	26.413	-29.587	56.000	AVERAGE

Note:
1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

Site : SR3	**Time : 2015/05/11 - 20:24**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A)-4_0811 - Line2	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit 802.11ac80_5775MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1	*	0.154	9.657	42.630	52.288	-13.499	65.786	QUASIPEAK
2		0.154	9.657	24.480	34.138	-21.649	55.786	AVERAGE
3		0.193	9.665	36.690	46.354	-17.553	63.908	QUASIPEAK
4		0.193	9.665	19.460	29.124	-24.783	53.908	AVERAGE
5		0.470	9.825	27.030	36.855	-19.653	56.508	QUASIPEAK
6		0.470	9.825	21.130	30.955	-15.553	46.508	AVERAGE
7		0.728	9.895	23.320	33.215	-22.785	56.000	QUASIPEAK
8		0.728	9.895	20.210	30.105	-15.895	46.000	AVERAGE
9		1.459	9.955	20.480	30.435	-25.565	56.000	QUASIPEAK
10		1.459	9.955	18.070	28.025	-17.975	46.000	AVERAGE
11		10.209	10.183	19.710	29.893	-30.107	60.000	QUASIPEAK
12		10.209	10.183	13.850	24.033	-25.967	50.000	AVERAGE

Note:
1. All Reading Levels are Quasi-Peak and average value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor

3. Peak Power Output

3.1. Test Equipment

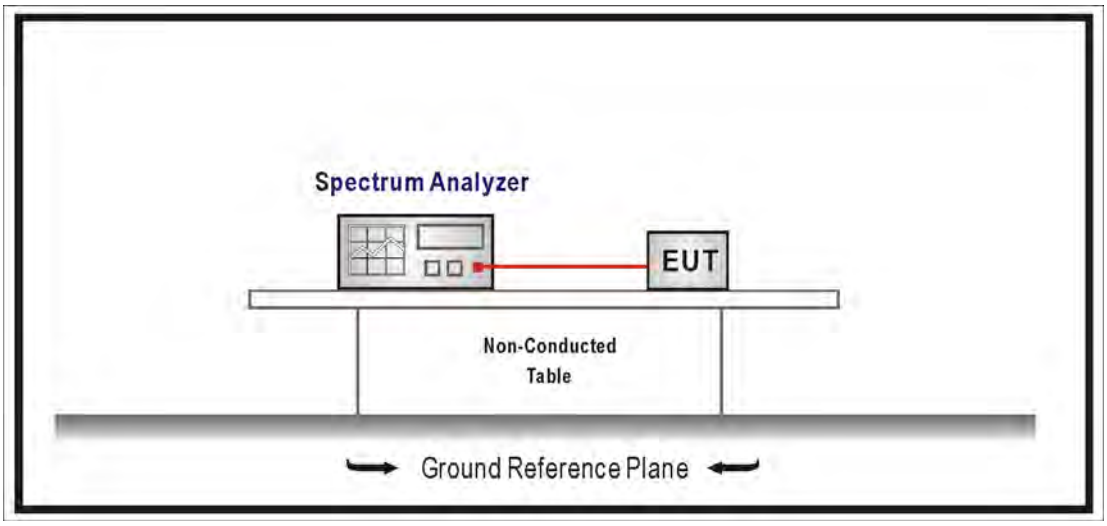
The following test equipments are used during the test:

Peak Power Output / SR7

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

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

3.2. Test Setup



3.3. Test procedures

The EUT was tested according to DTS test procedure section 9.1.2 of KDB558074 v03r02 measurement to FCC 47CFR 15.247 requirements.

3.4. Limits

The maximum peak power shall be less 1 Watt.

3.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

3.6. Uncertainty

The measurement uncertainty is defined as ± 1.27 dB.

3.7. Test Result

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

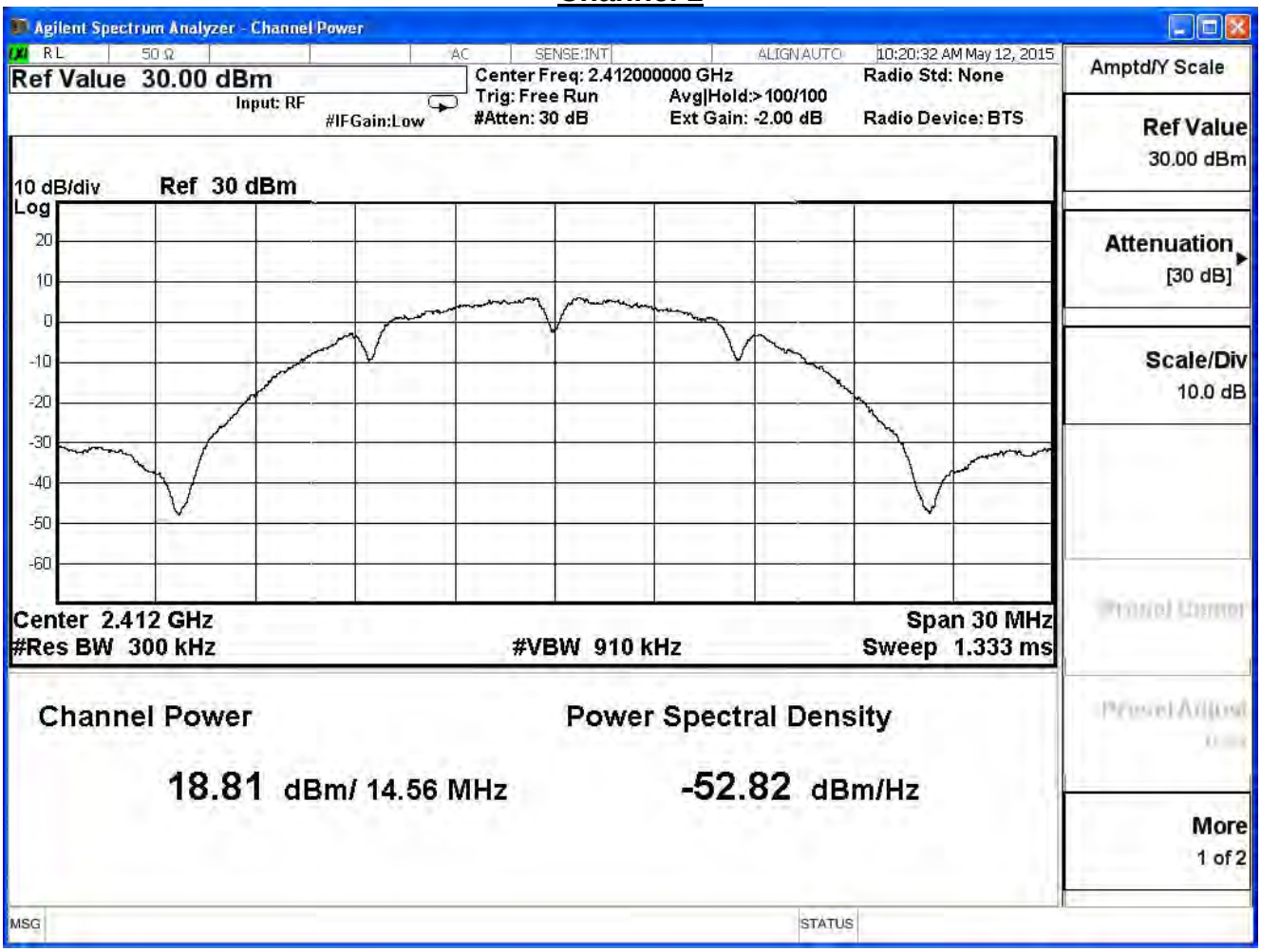
IEEE 802.11b (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	18.81	≦30	Pass
6	2437	19.85	≦30	Pass
11	2462	19.82	≦30	Pass

The worst emission of data rate is 1Mbps.

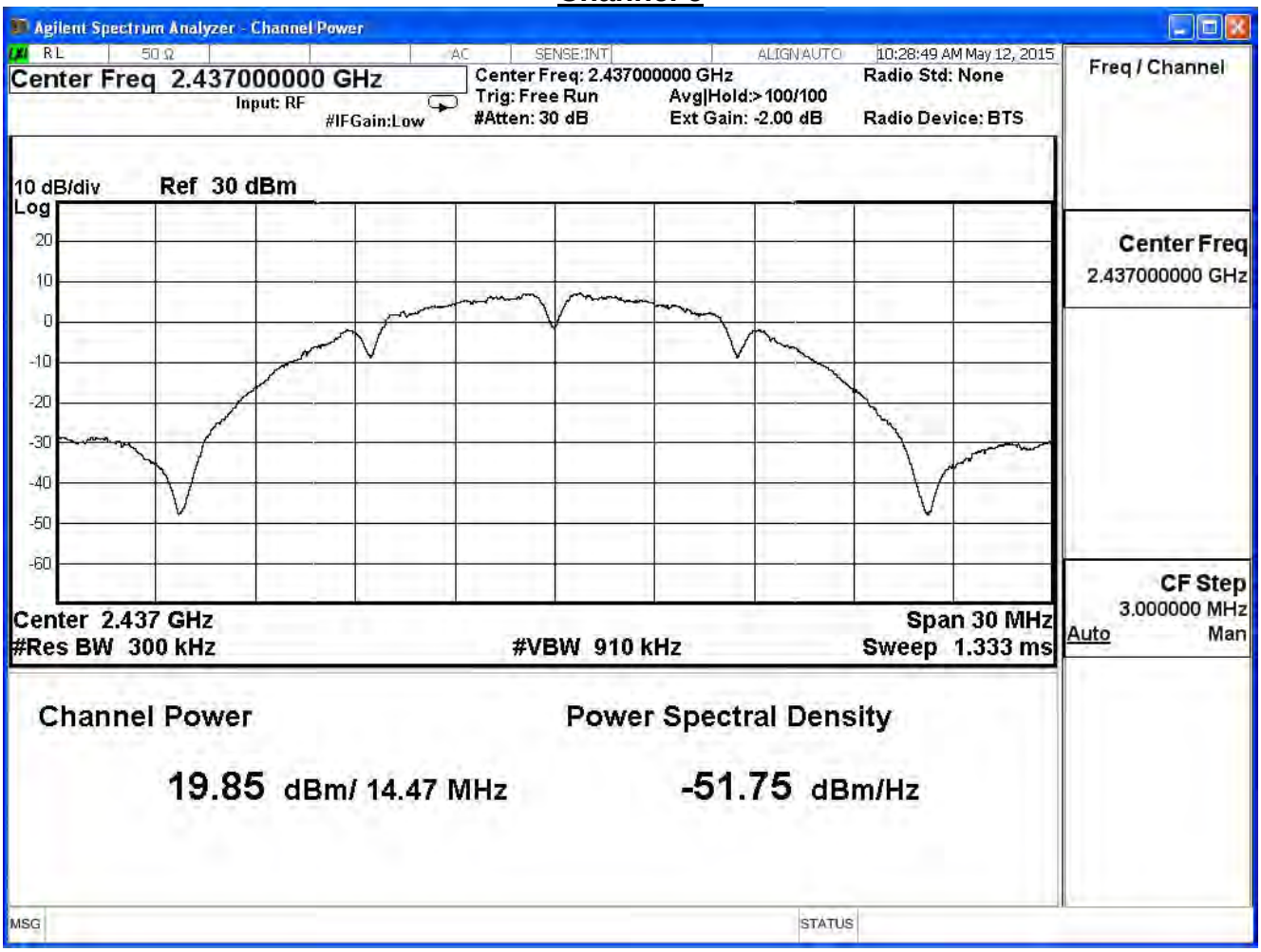
Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	18.81	--	--	--	≦30
6	2437	19.85	19.82	19.75	19.72	≦30
11	2462	19.82	--	--	--	≦30

Note: Measure Level =Reading value + cable loss

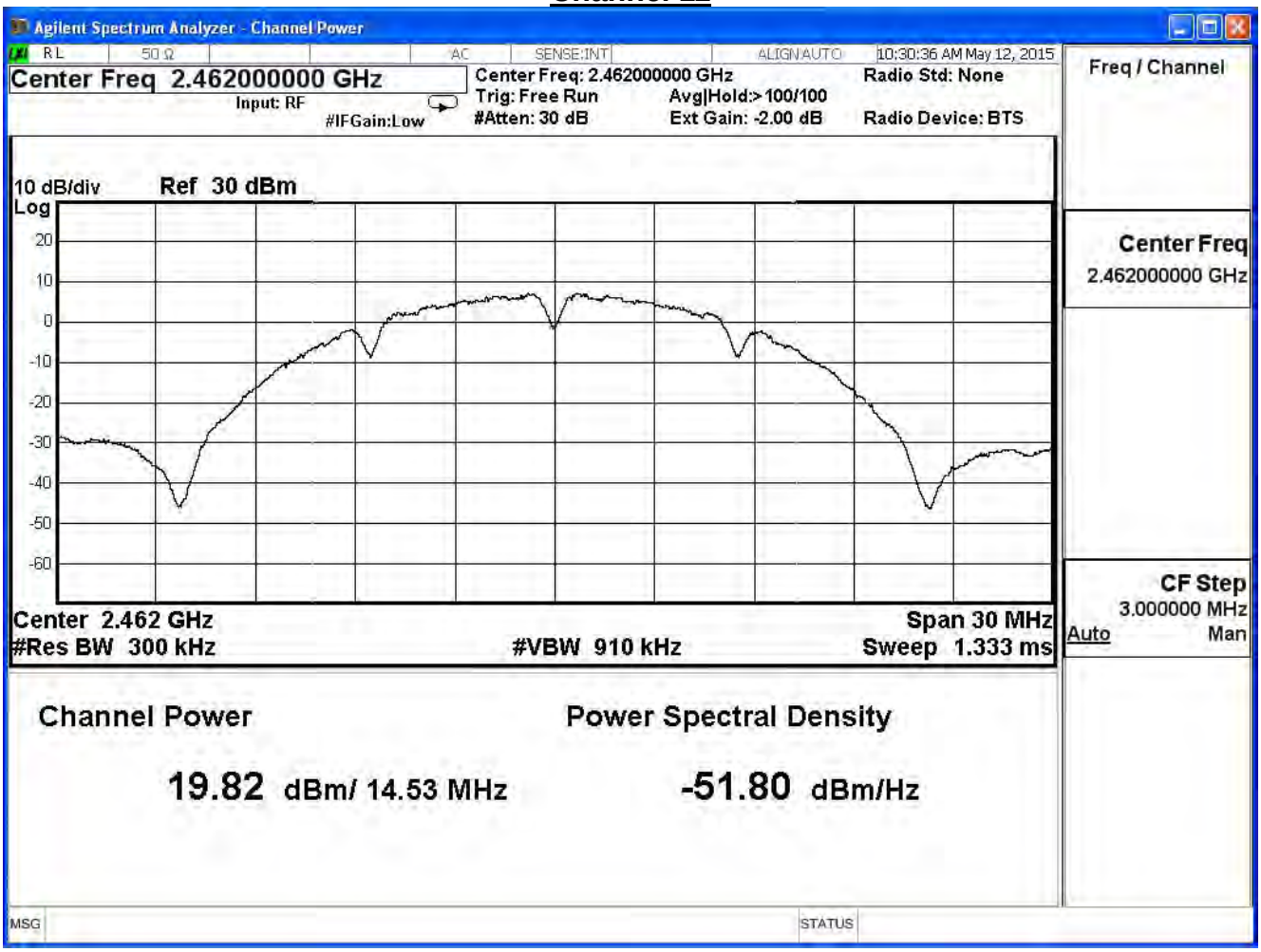
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:20:32 AM May 12, 2015
Ref Value 30.00 dBm
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Amptd/Y Scale
Ref Value
30.00 dBm
Attenuation
[30 dB]
Scale/Div
10.0 dB
More
1 of 2
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.412 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
18.81 dBm/ 14.56 MHz
Power Spectral Density
-52.82 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:28:49 AM May 12, 2015
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
19.85 dBm/ 14.47 MHz
Power Spectral Density
-51.75 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:30:36 AM May 12, 2015
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
19.82 dBm/ 14.53 MHz
Power Spectral Density
-51.80 dBm/Hz
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

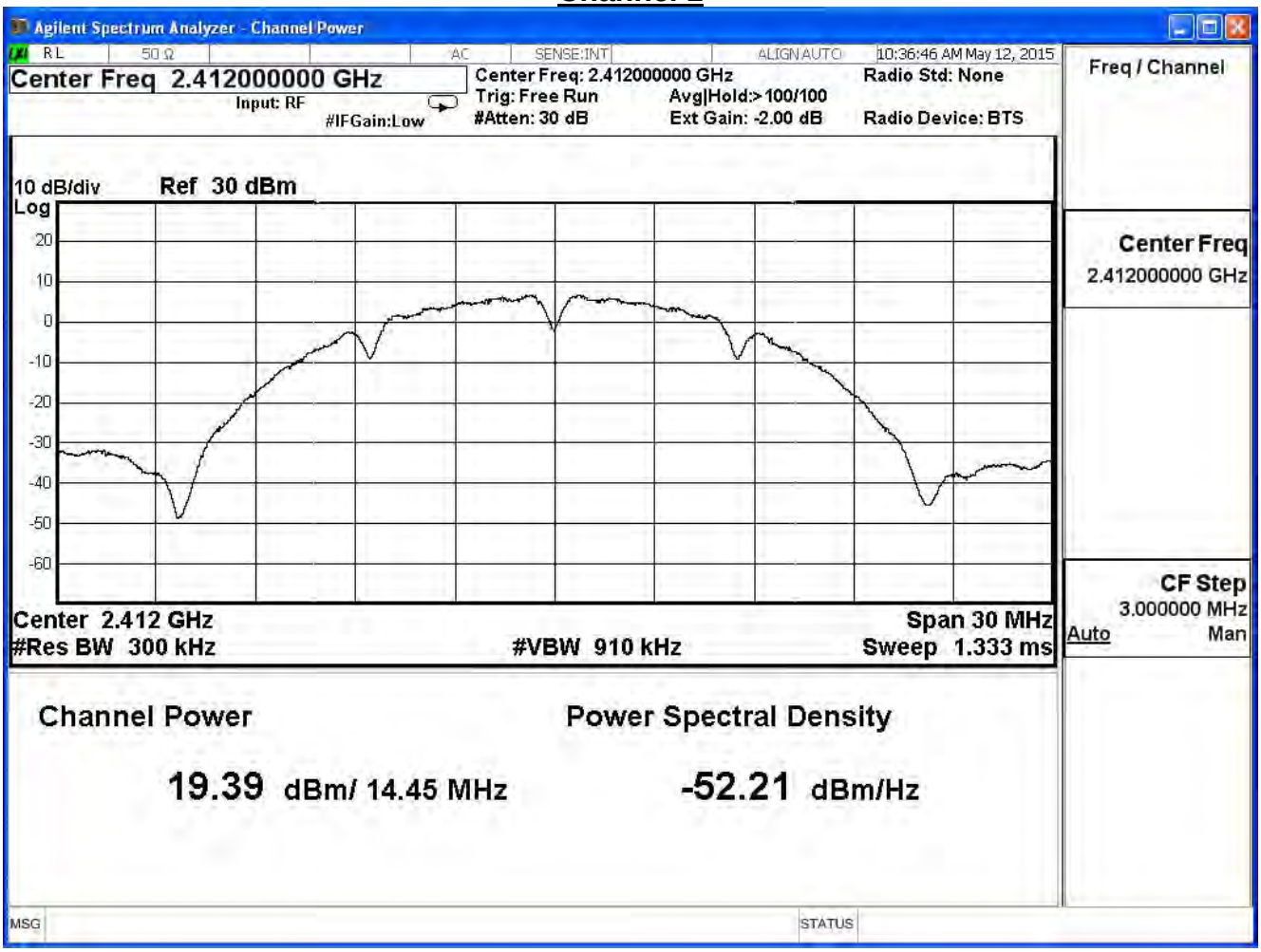
IEEE 802.11b (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	19.39	≦30	Pass
6	2437	20.28	≦30	Pass
11	2462	20.26	≦30	Pass

The worst emission of data rate is 1Mbps.

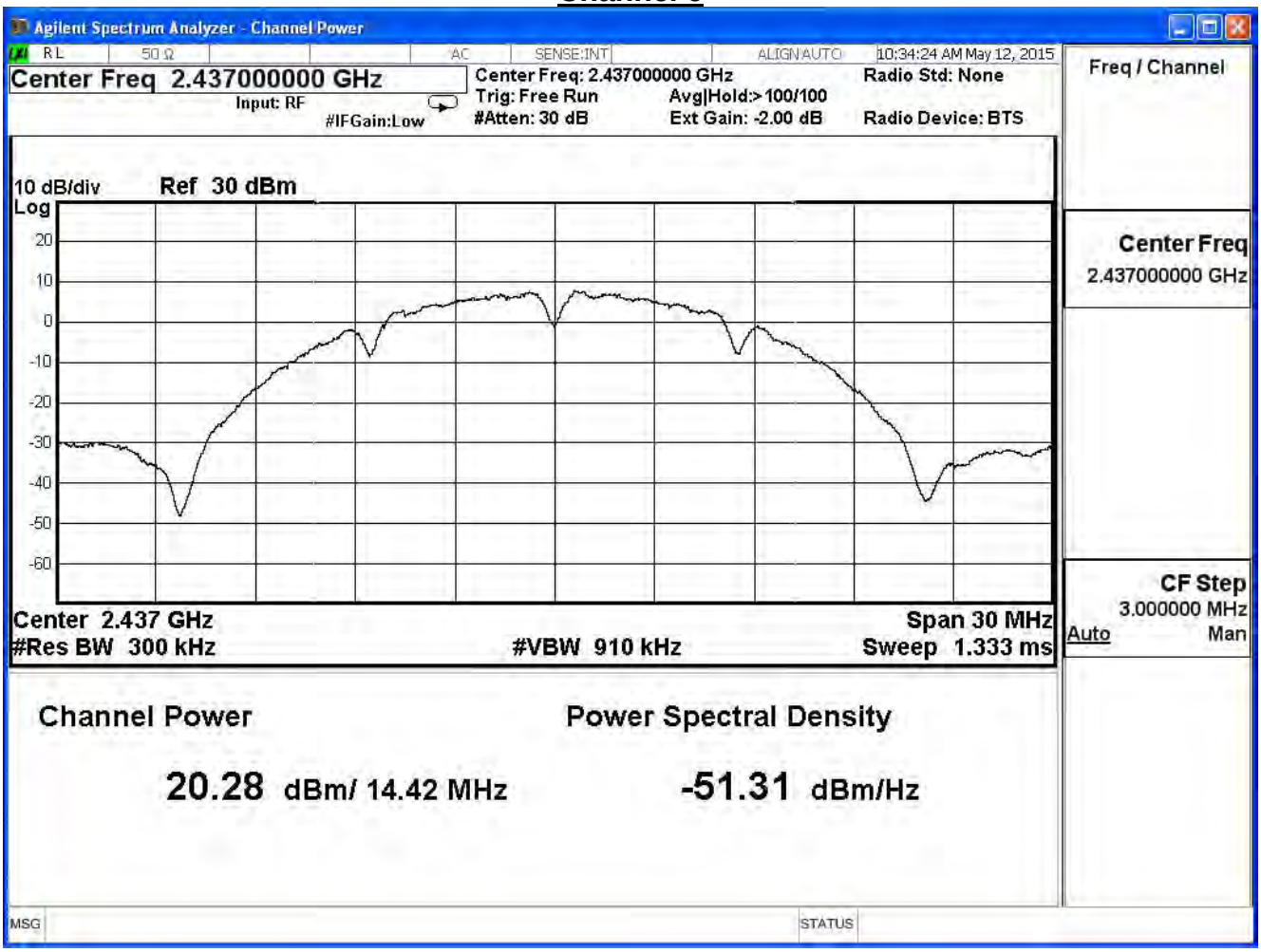
Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	19.39	--	--	--	≦30
6	2437	20.28	20.23	20.20	20.15	≦30
11	2462	20.26	--	--	--	≦30

Note: Measure Level =Reading value + cable loss

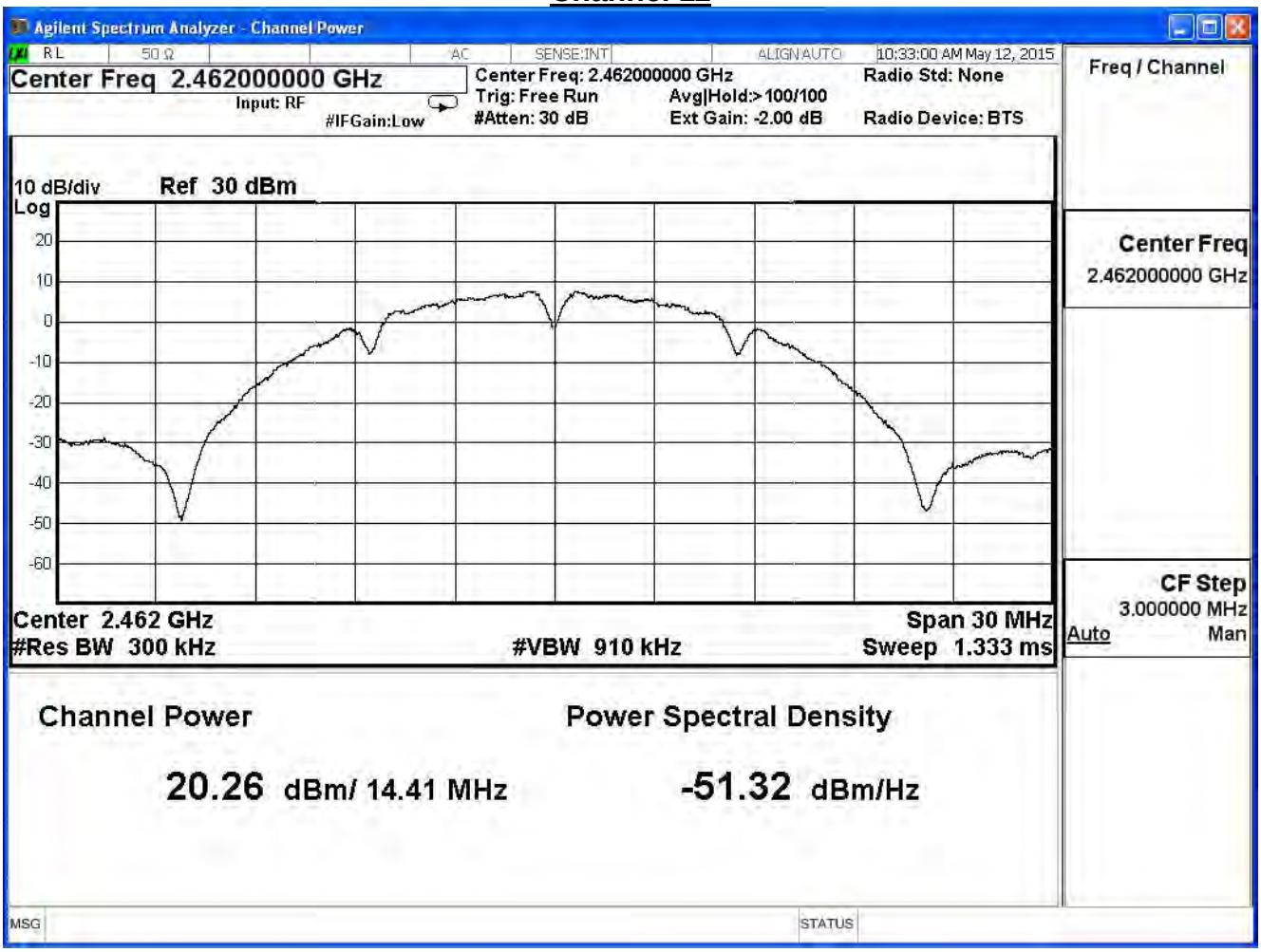
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:36:46 AM May 12, 2015
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
19.39 dBm/ 14.45 MHz
Power Spectral Density
-52.21 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:34:24 AM May 12, 2015
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
20.28 dBm/ 14.42 MHz
Power Spectral Density
-51.31 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:33:00 AM May 12, 2015
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
20.26 dBm/ 14.41 MHz
Power Spectral Density
-51.32 dBm/Hz
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11b (ANT 0+1)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	22.12	≦30	Pass
6	2437	23.08	≦30	Pass
11	2462	23.06	≦30	Pass

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	22.12	--	--	--	≦30
6	2437	23.08	23.04	22.99	22.95	≦30
11	2462	23.06	--	--	--	≦30

Note: Measure Level =Reading value + cable loss

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

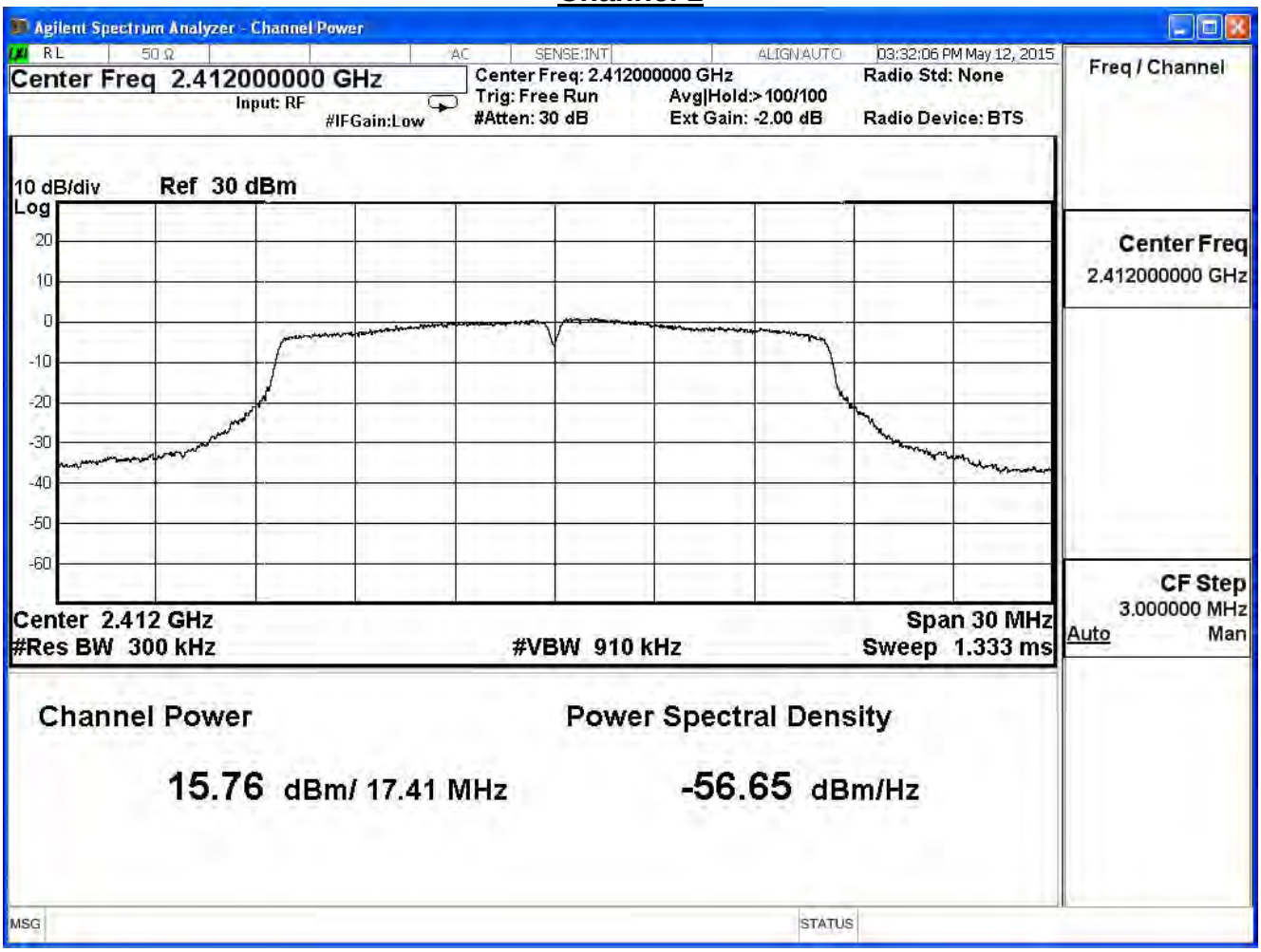
IEEE 802.11g (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	15.76	≦30	Pass
6	2437	20.84	≦30	Pass
11	2462	15.94	≦30	Pass

The worst emission of data rate is 6 Mbps.

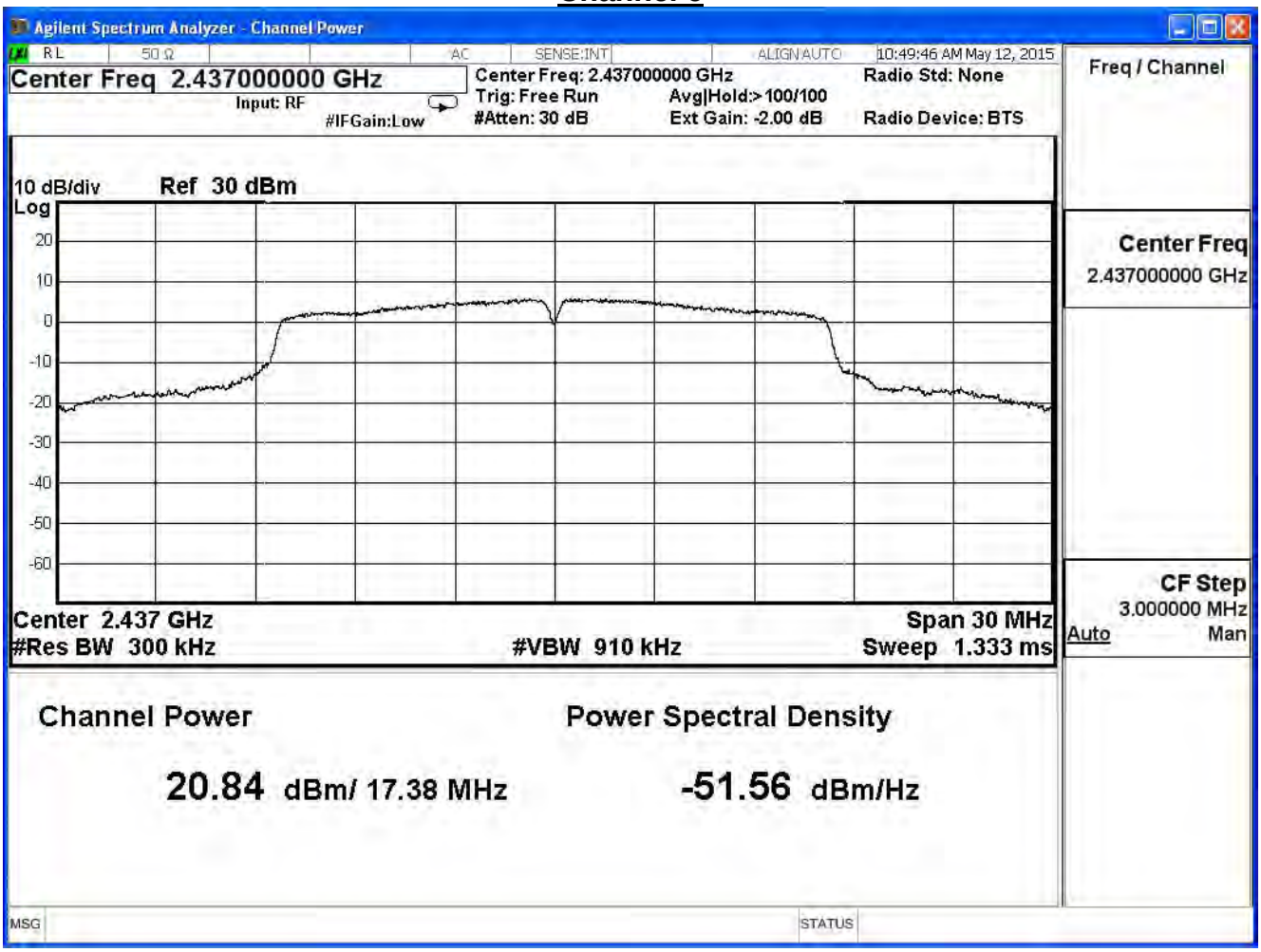
Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
1	2412	15.76	--	--	--	--	--	--	≦30
6	2437	20.84	20.60	20.50	20.39	20.13	20.01	19.77	≦30
11	2462	15.94	--	--	--	--	--	--	≦30

Note: Measure Level =Reading value + cable loss

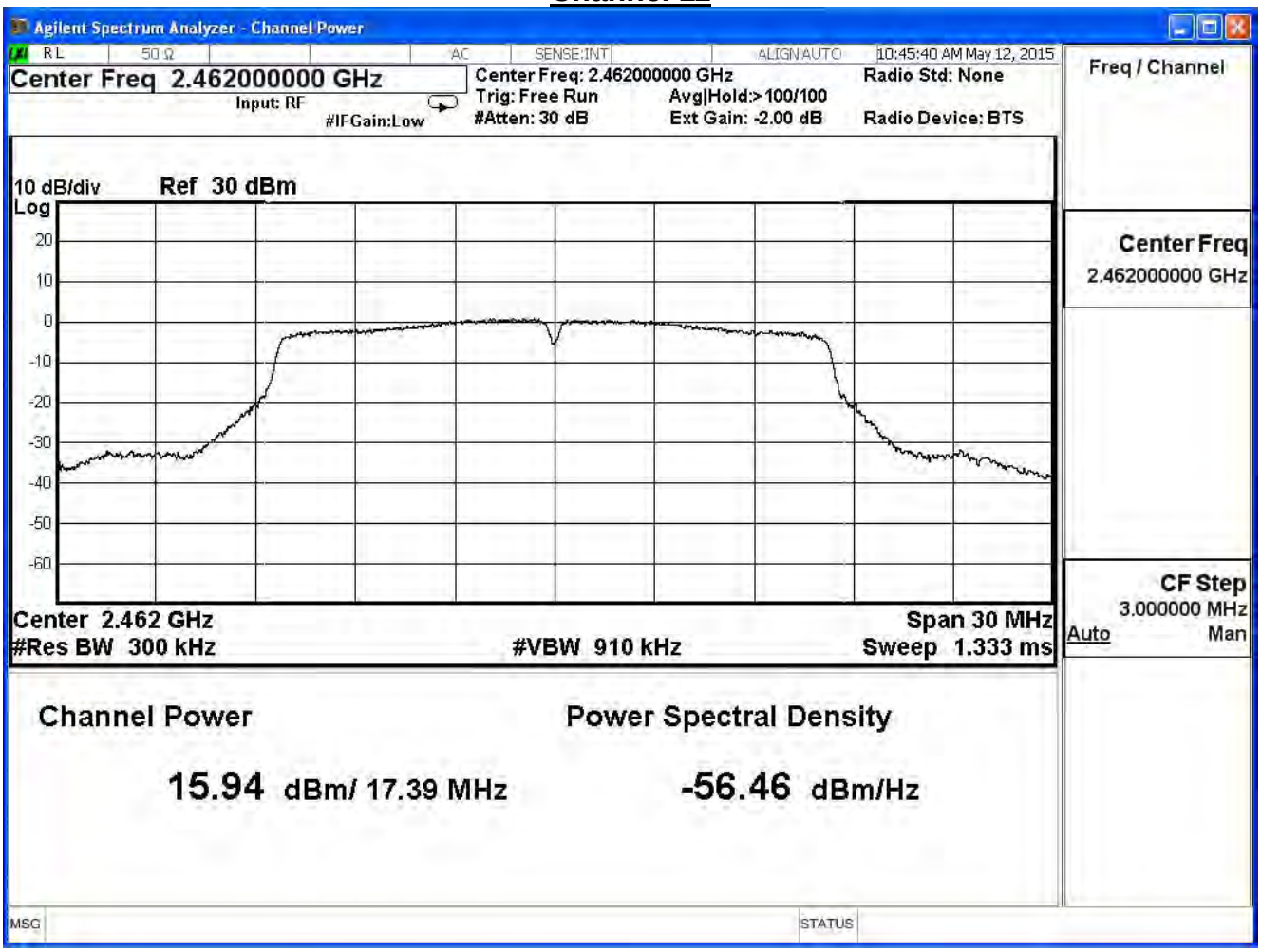
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:32:06 PM May 12, 2015
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
15.76 dBm/ 17.41 MHz
Power Spectral Density
-56.65 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:49:46 AM May 12, 2015
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
20.84 dBm/ 17.38 MHz
Power Spectral Density
-51.56 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:45:40 AM May 12, 2015
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
15.94 dBm/ 17.39 MHz
Power Spectral Density
-56.46 dBm/Hz
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

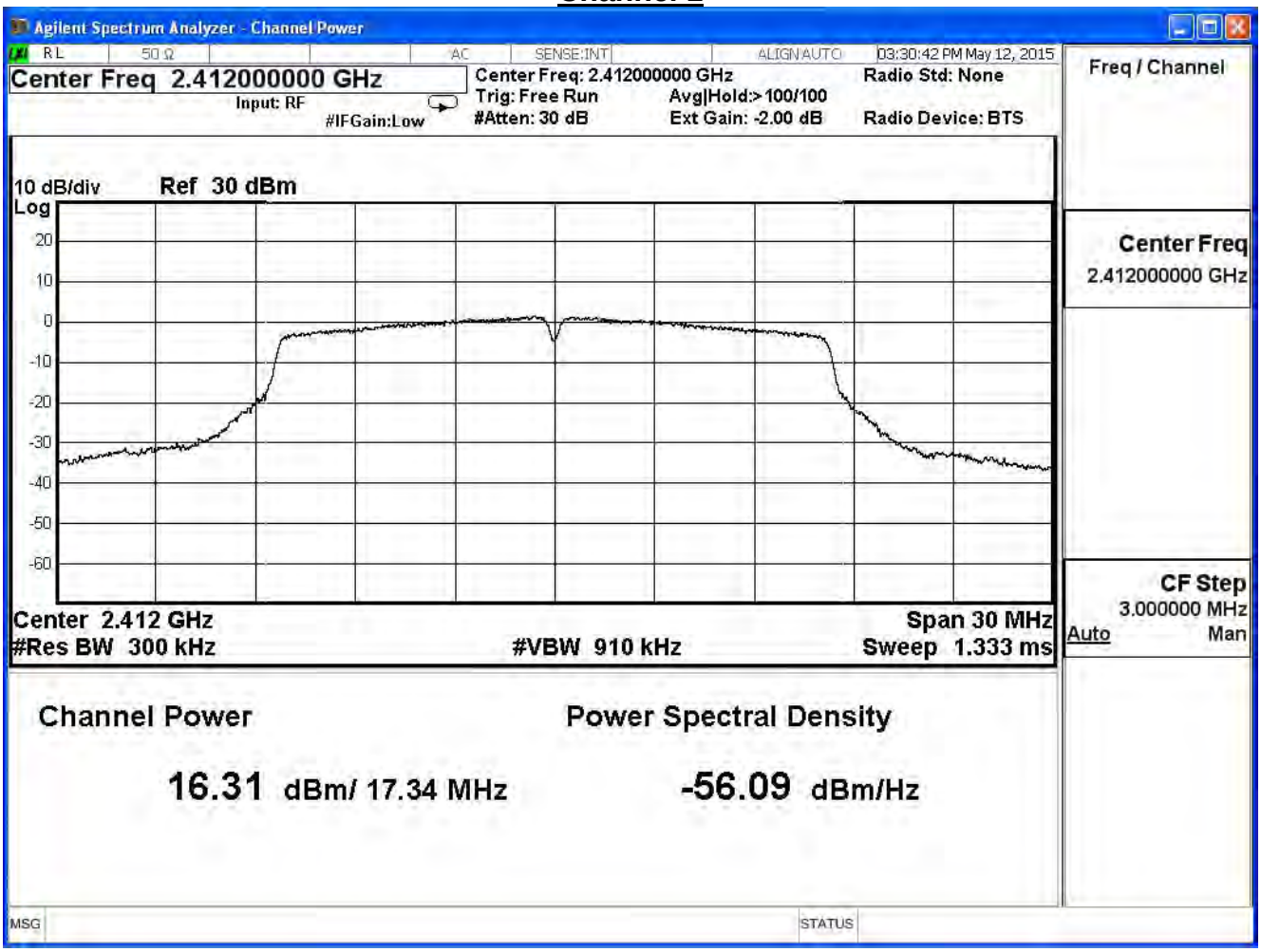
IEEE 802.11g (ANT 1)				
Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	16.31	≦30	Pass
6	2437	22.53	≦30	Pass
11	2462	16.55	≦30	Pass

The worst emission of data rate is 6 Mbps.

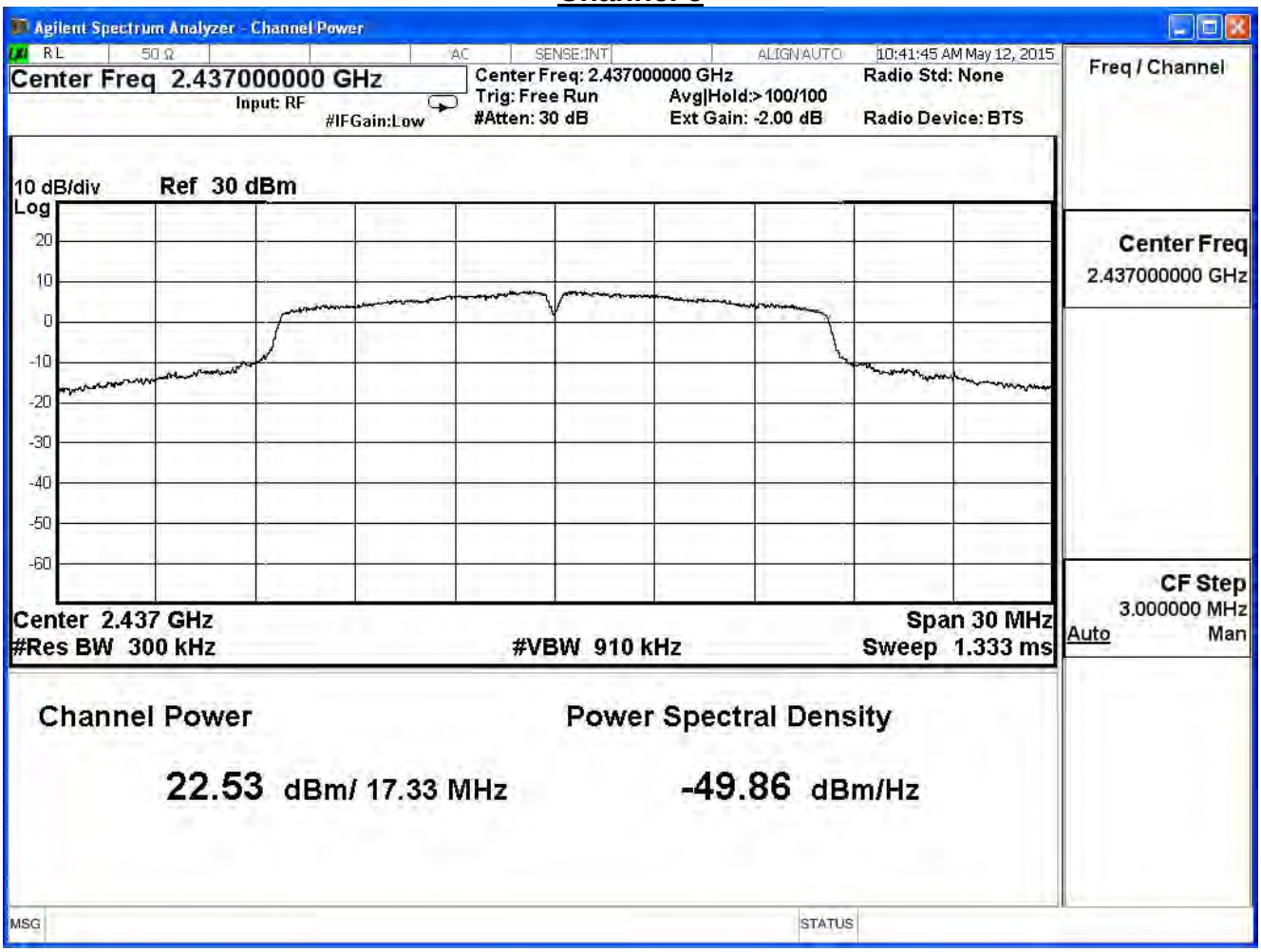
Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
1	2412	16.31	--	--	--	--	--	--	≦30
6	2437	22.53	22.33	22.09	21.99	21.87	21.75	21.51	≦30
11	2462	16.55	--	--	--	--	--	--	≦30

Note: Measure Level =Reading value + cable loss

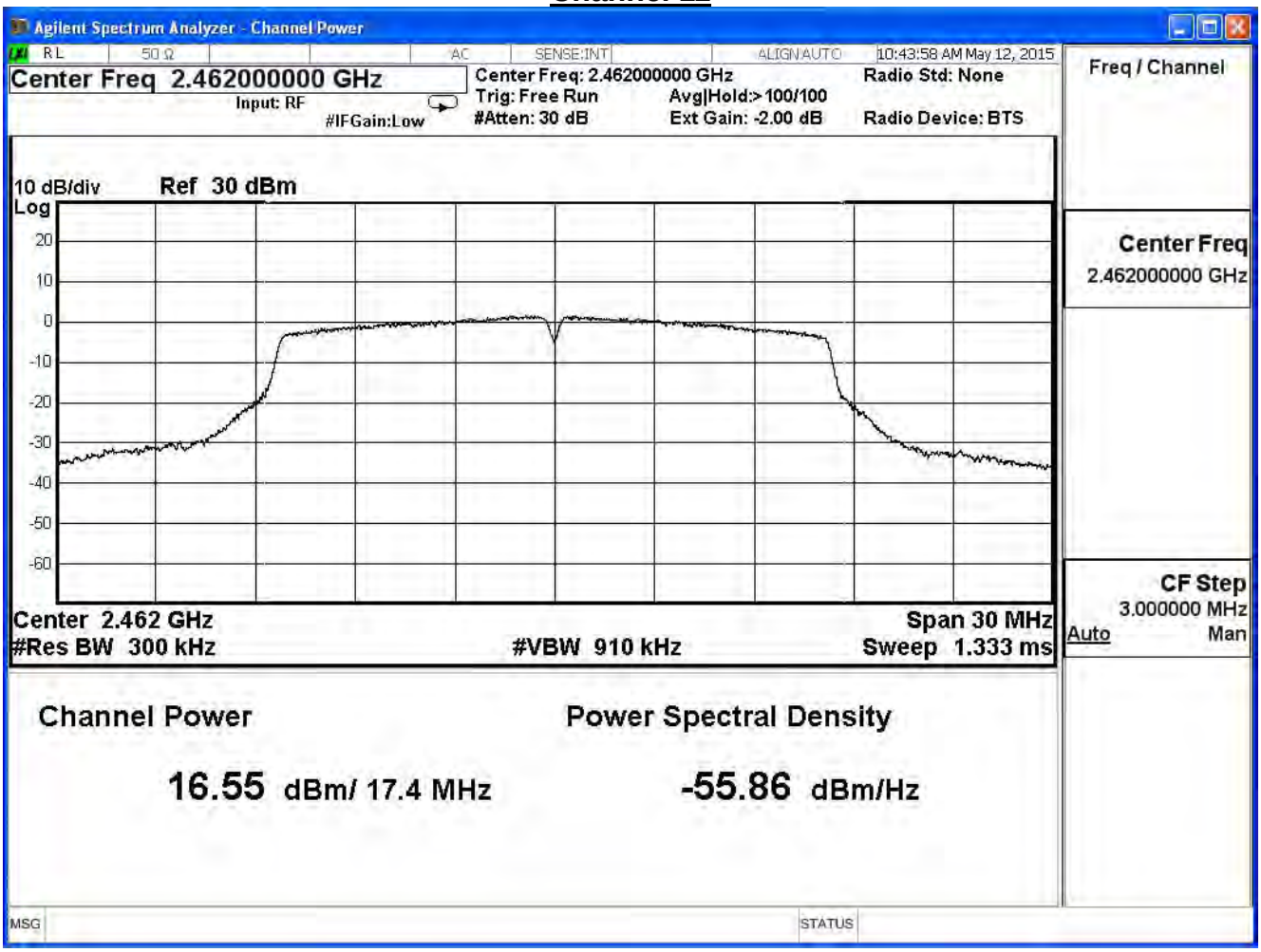
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:30:42 PM May 12, 2015
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
16.31 dBm/ 17.34 MHz
Power Spectral Density
-56.09 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:41:45 AM May 12, 2015
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
22.53 dBm/ 17.33 MHz
Power Spectral Density
-49.86 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:43:58 AM May 12, 2015
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
16.55 dBm/ 17.4 MHz
Power Spectral Density
-55.86 dBm/Hz
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11g (ANT 0+1)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	19.05	≦30	Pass
6	2437	24.78	≦30	Pass
11	2462	19.27	≦30	Pass

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
1	2412	19.05	--	--	--	--	--	--	≦30
6	2437	24.78	24.56	24.38	24.27	24.10	23.98	23.74	≦30
11	2462	19.27	--	--	--	--	--	--	≦30

Note: Measure Level =Reading value + cable loss

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

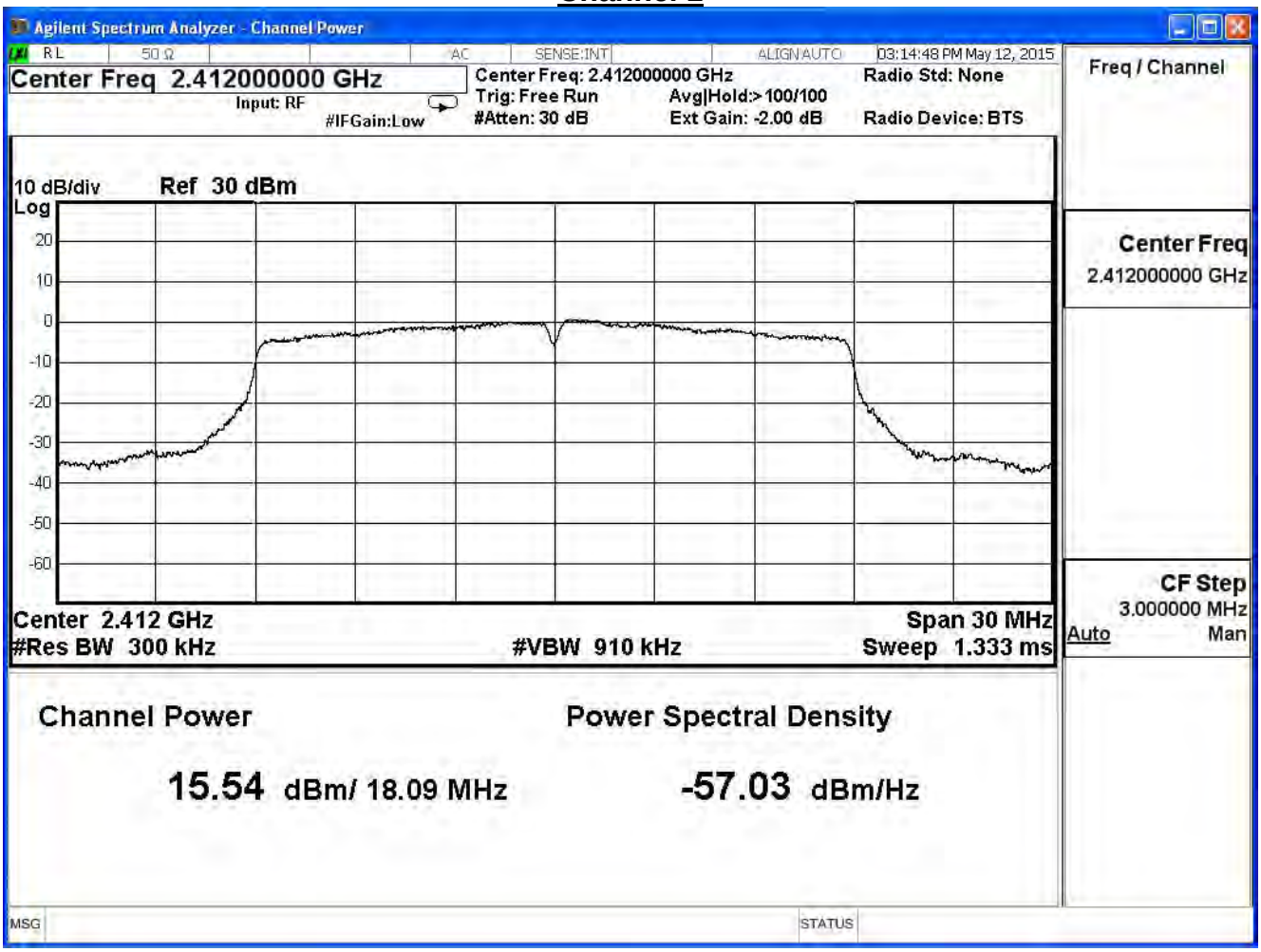
IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
1	2412	15.54	≦30	Pass
6	2437	20.42	≦30	Pass
11	2462	15.20	≦30	Pass

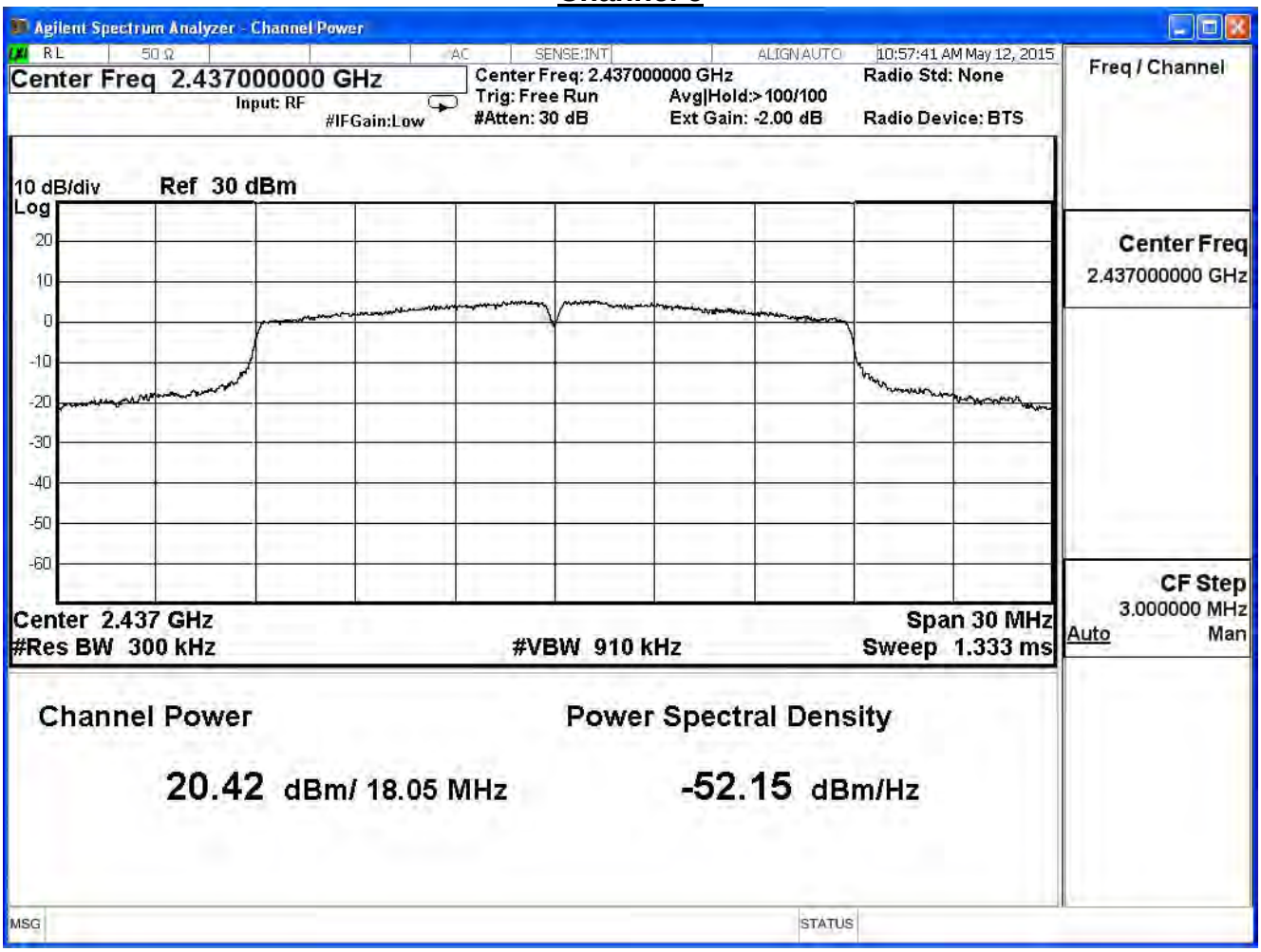
The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	15.54	--	--	--	--	--	--	--	≦30
6	2437	20.42	20.30	20.10	19.88	19.75	19.63	19.39	19.28	≦30
11	2462	15.2	--	--	--	--	--	--	--	≦30

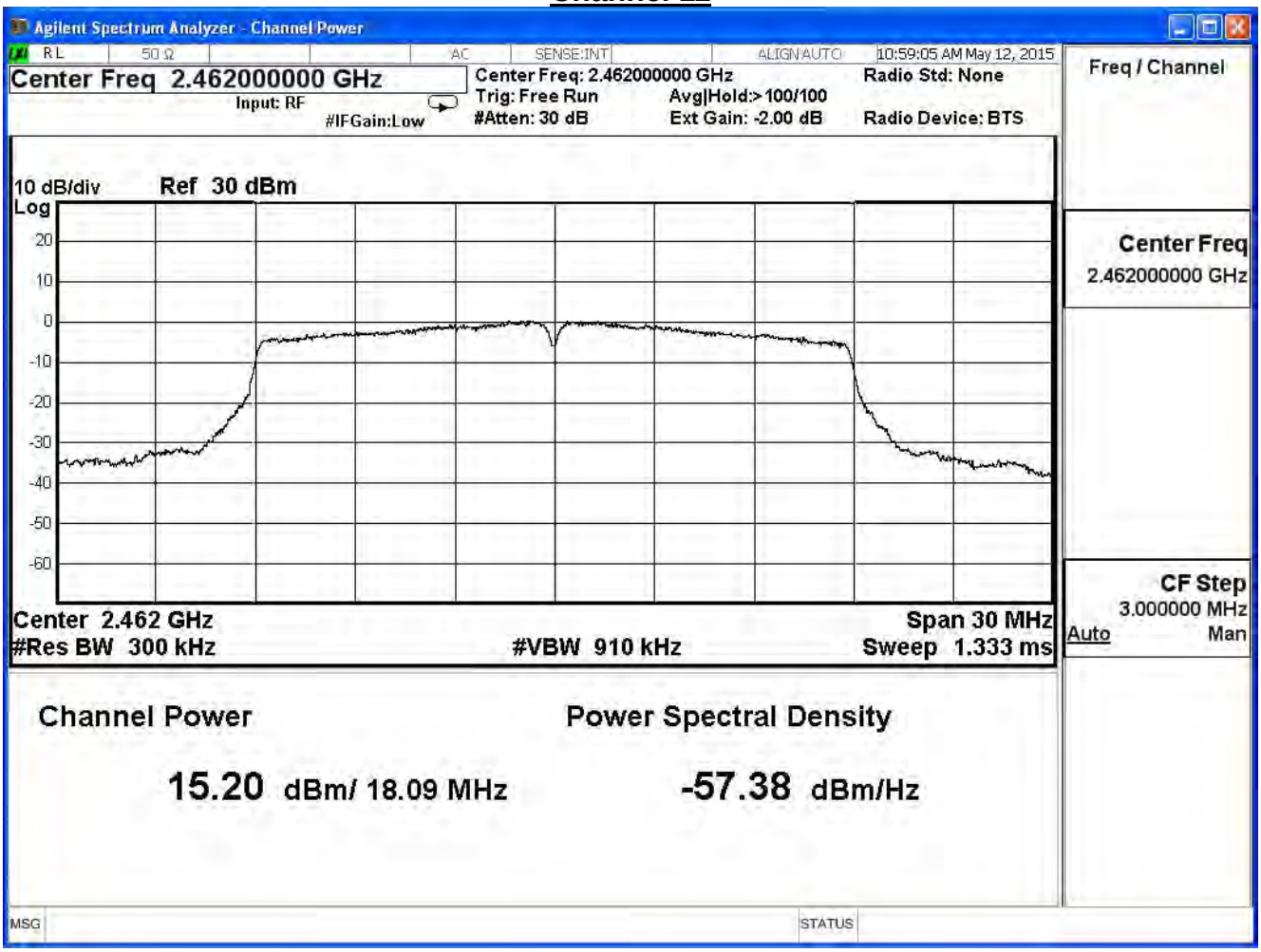
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:14:48 PM May 12, 2015
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
15.54 dBm/ 18.09 MHz
Power Spectral Density
-57.03 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:57:41 AM May 12, 2015
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
20.42 dBm/ 18.05 MHz
Power Spectral Density
-52.15 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
10:59:05 AM May 12, 2015
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
15.20 dBm/ 18.09 MHz
Power Spectral Density
-57.38 dBm/Hz
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

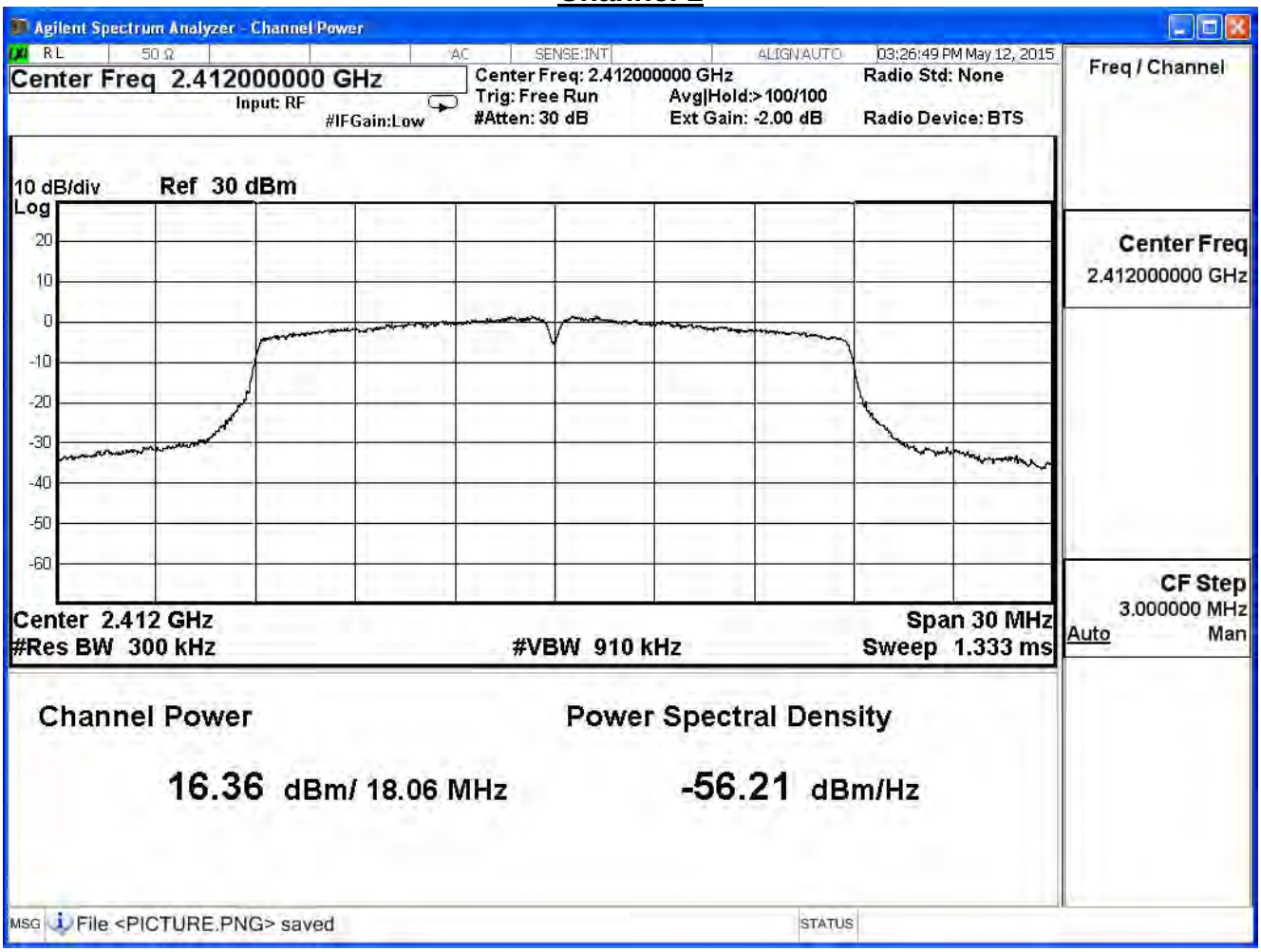
IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	16.36	≦30	Pass
6	2437	21.35	≦30	Pass
11	2462	16.42	≦30	Pass

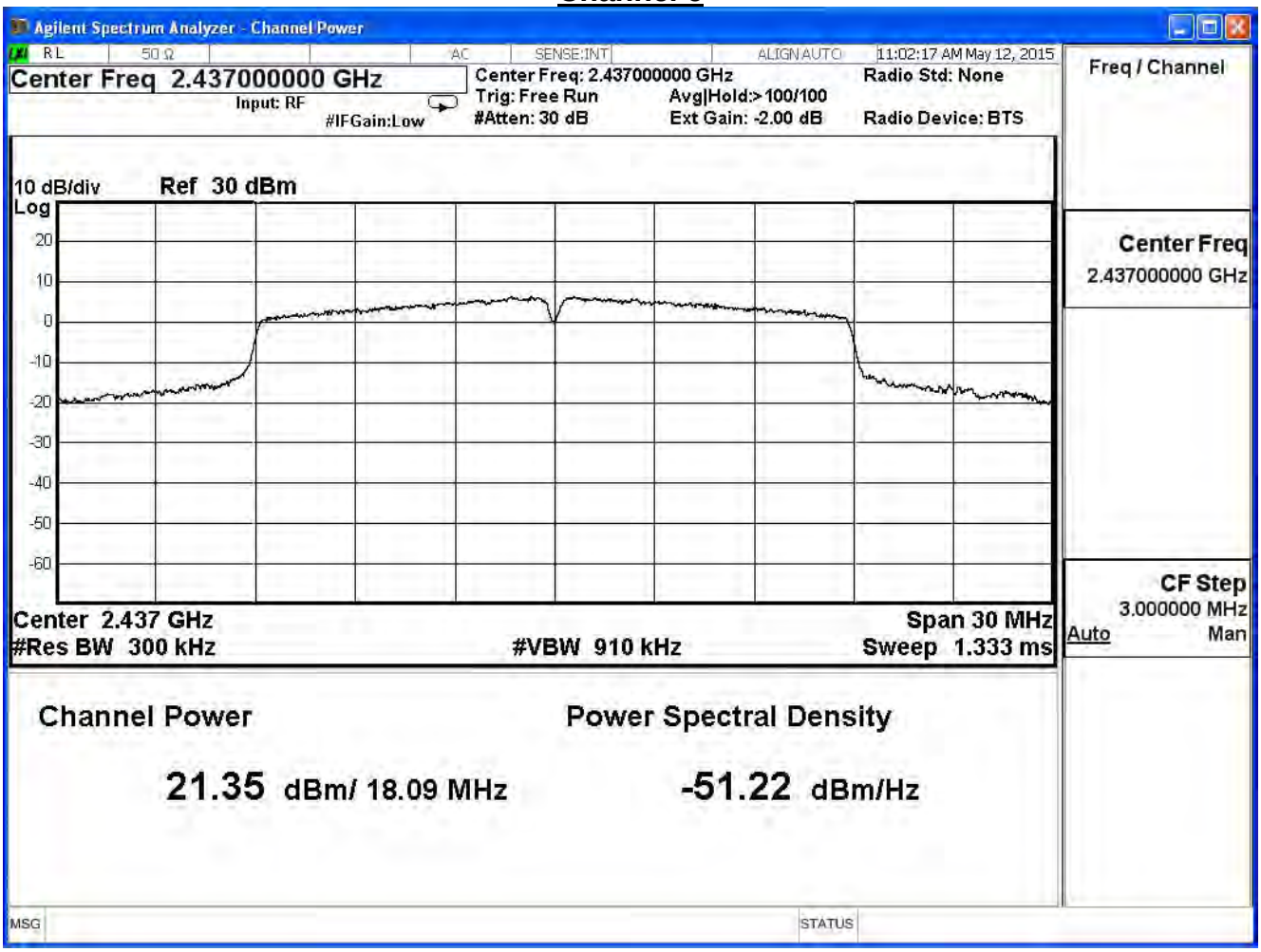
The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	16.36	--	--	--	--	--	--	--	≦30
6	2437	21.35	21.15	20.91	20.71	20.47	20.23	19.99	19.86	≦30
11	2462	16.42	--	--	--	--	--	--	--	≦30

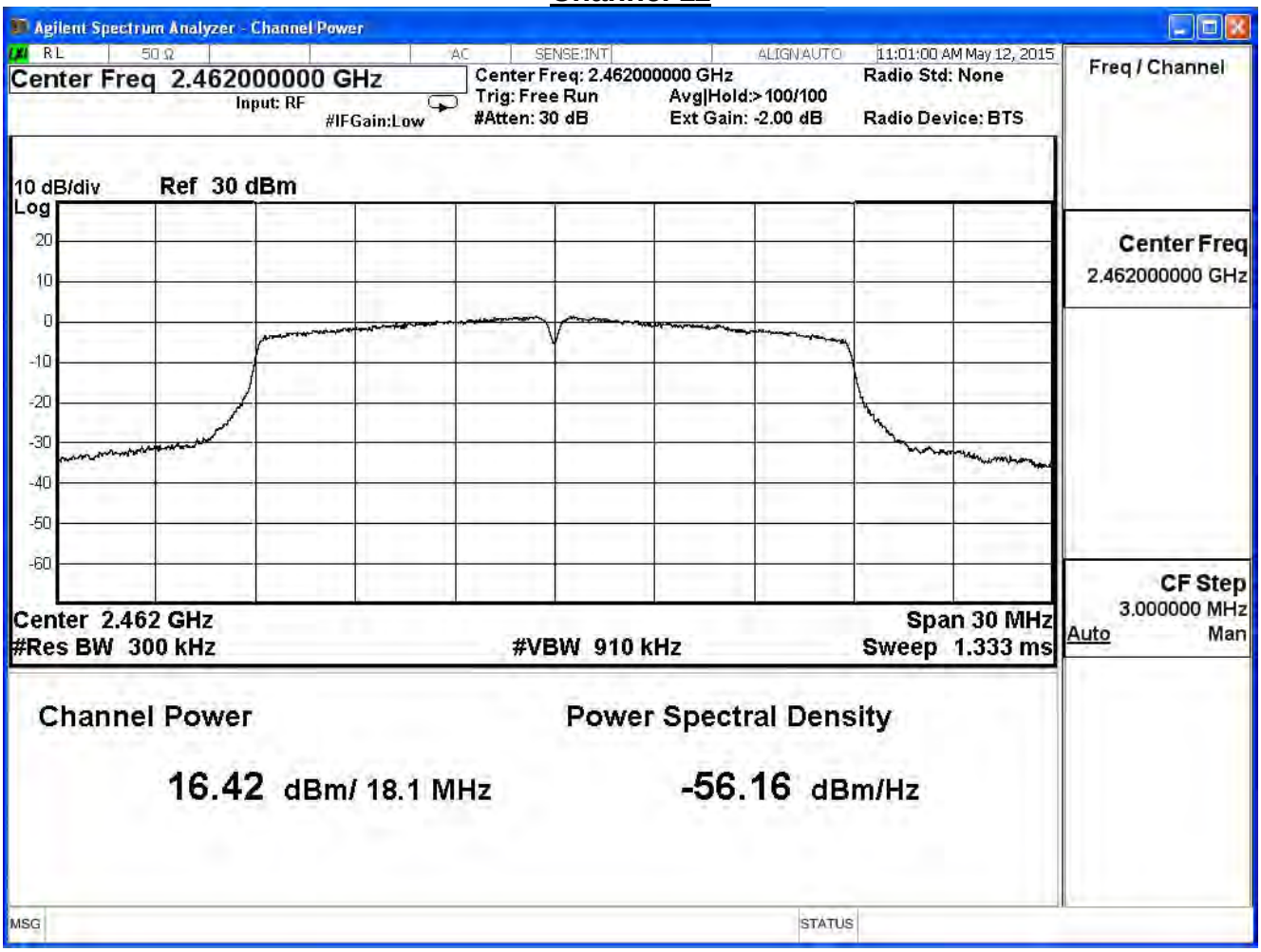
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
03:26:49 PM May 12, 2015
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
16.36 dBm/ 18.06 MHz
Power Spectral Density
-56.21 dBm/Hz
MSG
File <PICTURE.PNG> saved
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:02:17 AM May 12, 2015
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
21.35 dBm/ 18.09 MHz
Power Spectral Density
-51.22 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
11:01:00 AM May 12, 2015
Center Freq 2.462000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 300 kHz
#VBW 910 kHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
16.42 dBm/ 18.1 MHz
Power Spectral Density
-56.16 dBm/Hz
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
1	2412	18.98	≦30	Pass
6	2437	23.92	≦30	Pass
11	2462	18.86	≦30	Pass

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
1	2412	18.98	--	--	--	--	--	--	--	≦30
6	2437	23.92	23.76	23.53	23.33	23.14	22.95	22.71	22.59	≦30
11	2462	18.86	--	--	--	--	--	--	--	≦30

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

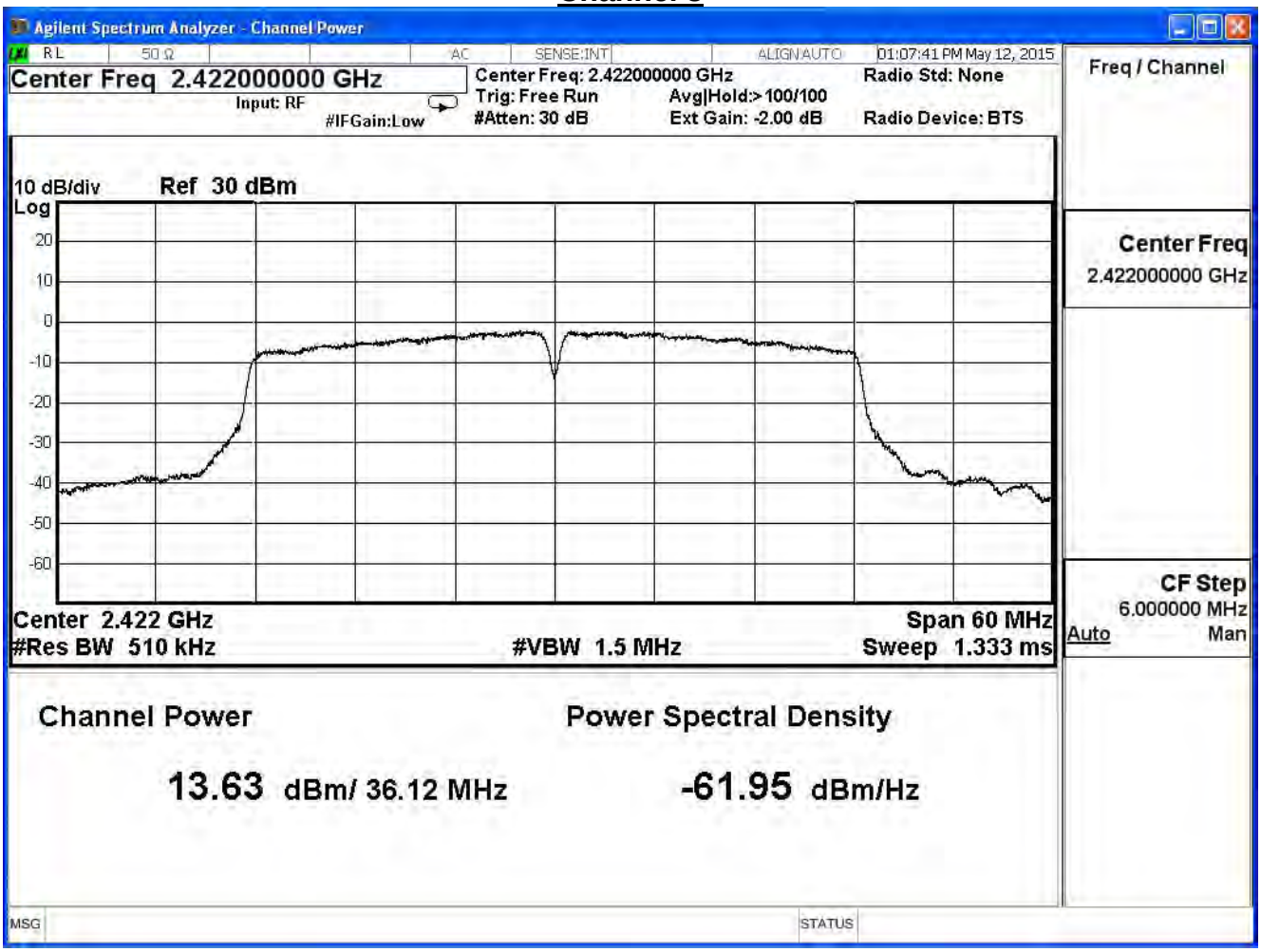
IEEE802.11n 40MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
3	2422	13.63	≦30	Pass
6	2437	18.10	≦30	Pass
9	2452	13.60	≦30	Pass

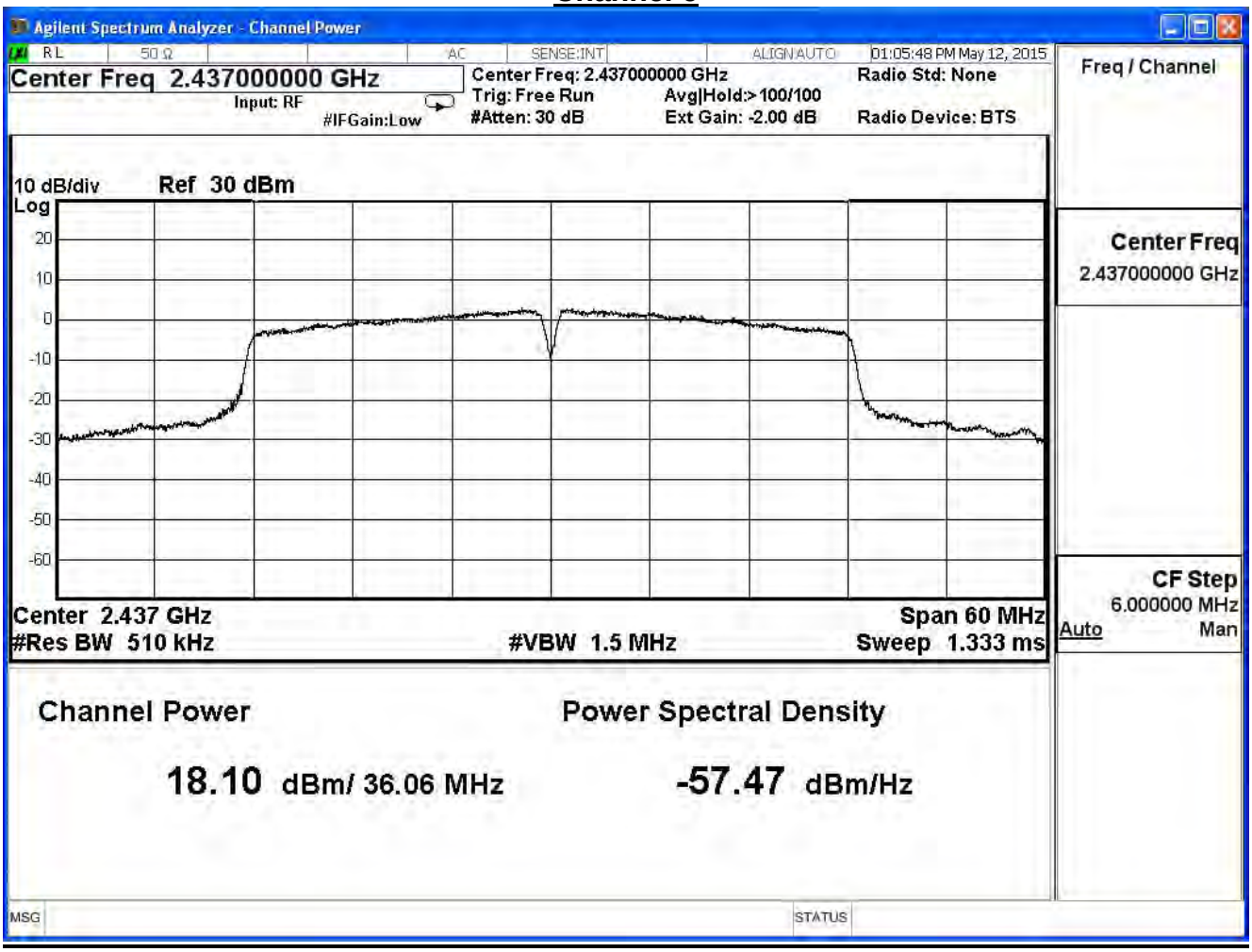
The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	13.63	--	--	--	--	--	--	--	≦30
6	2437	18.1	17.98	17.88	17.66	17.53	17.41	17.29	17.07	≦30
9	2452	13.6	--	--	--	--	--	--	--	≦30

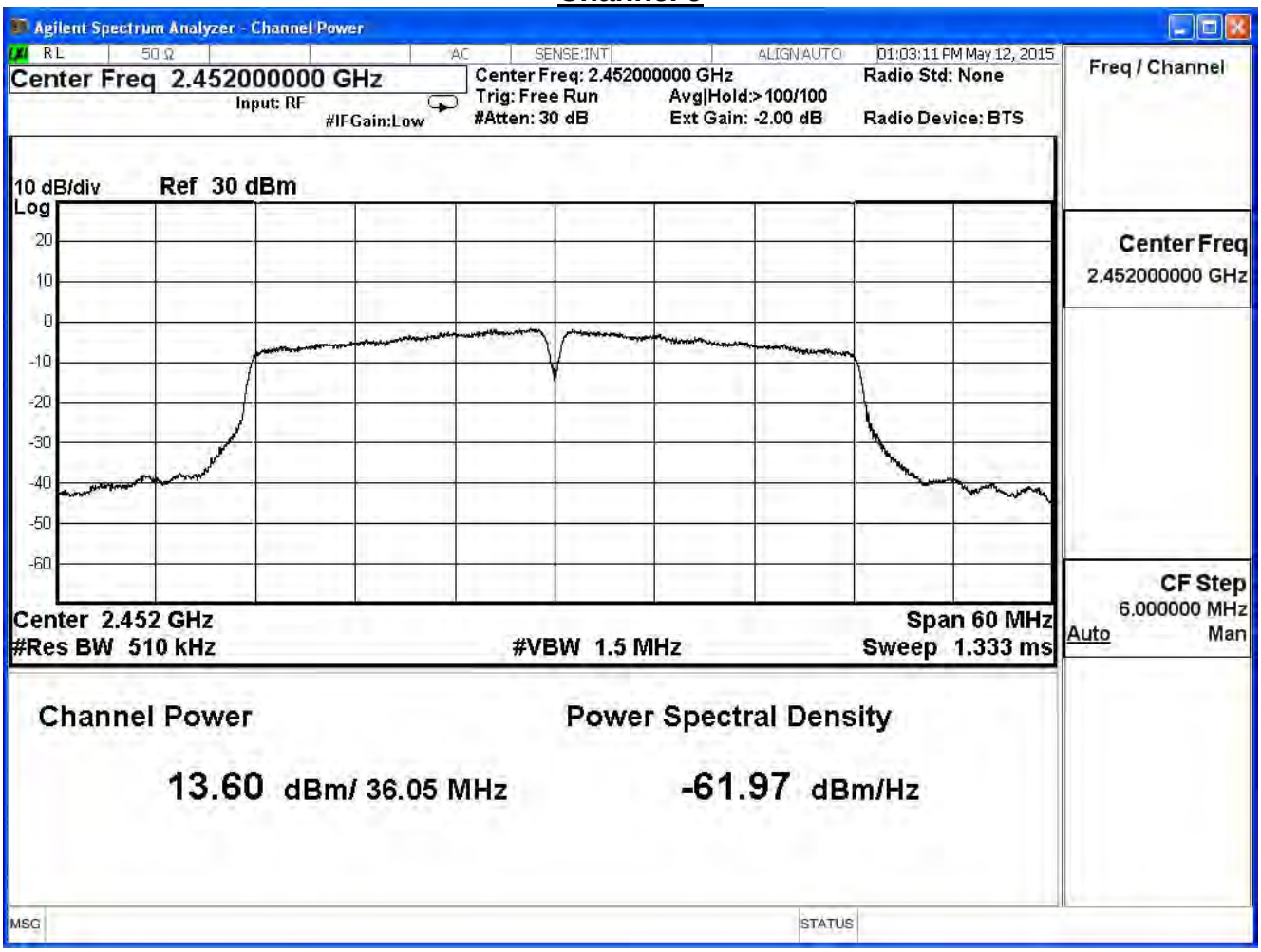
Channel 3


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
01:07:41 PM May 12, 2015
Center Freq 2.422000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.63 dBm/ 36.12 MHz
Power Spectral Density
-61.95 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
01:05:48 PM May 12, 2015
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
18.10 dBm/ 36.06 MHz
Power Spectral Density
-57.47 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
01:03:11 PM May 12, 2015
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.60 dBm/ 36.05 MHz
Power Spectral Density
-61.97 dBm/Hz
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

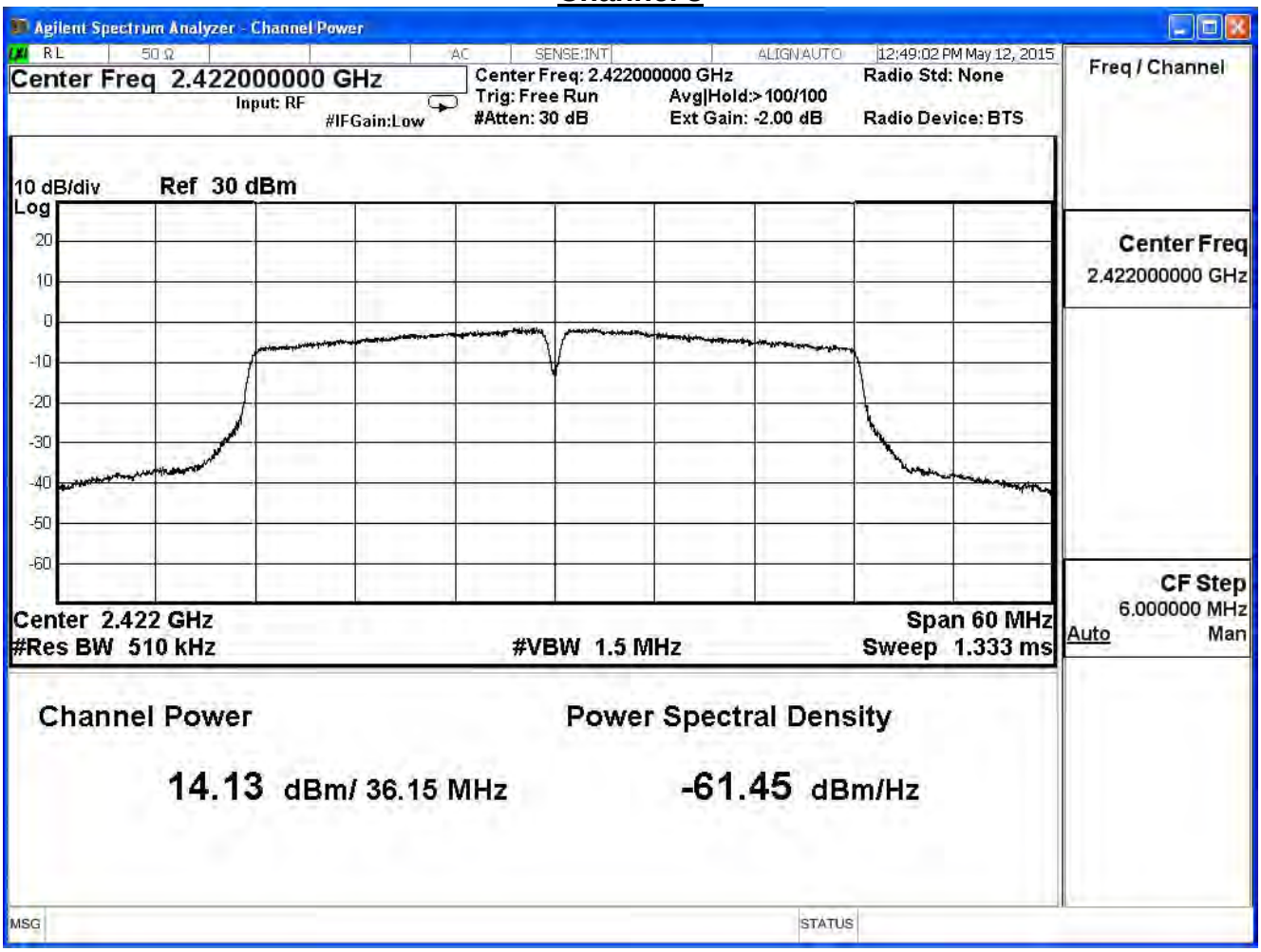
IEEE802.11n 40MHz (ANT 1)

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	14.13	≦30	Pass
6	2437	18.43	≦30	Pass
9	2452	14.13	≦30	Pass

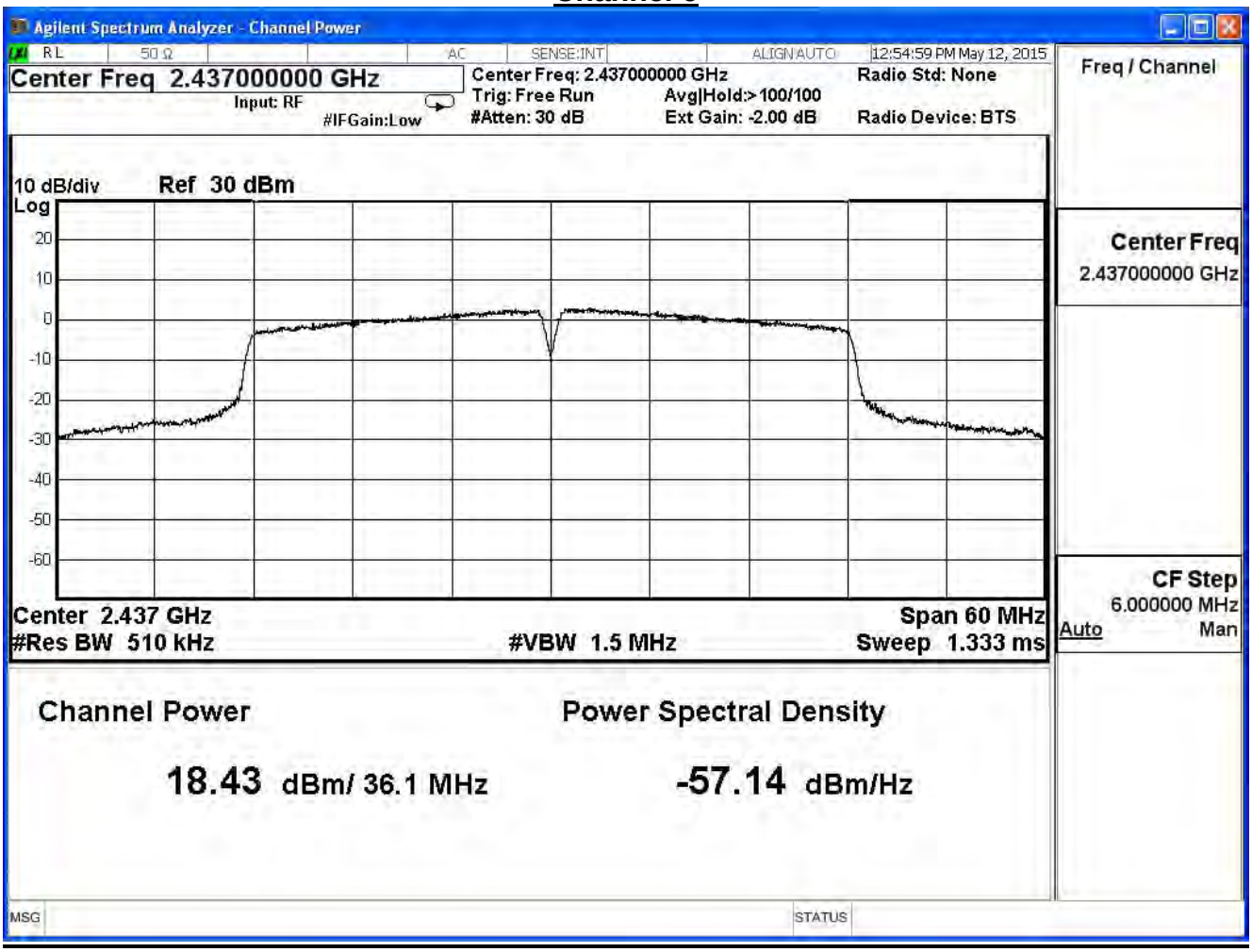
The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	14.13	--	--	--	--	--	--	--	≦30
6	2437	18.43	18.23	17.99	17.79	17.67	17.55	17.31	17.05	≦30
9	2452	14.13	--	--	--	--	--	--	--	≦30

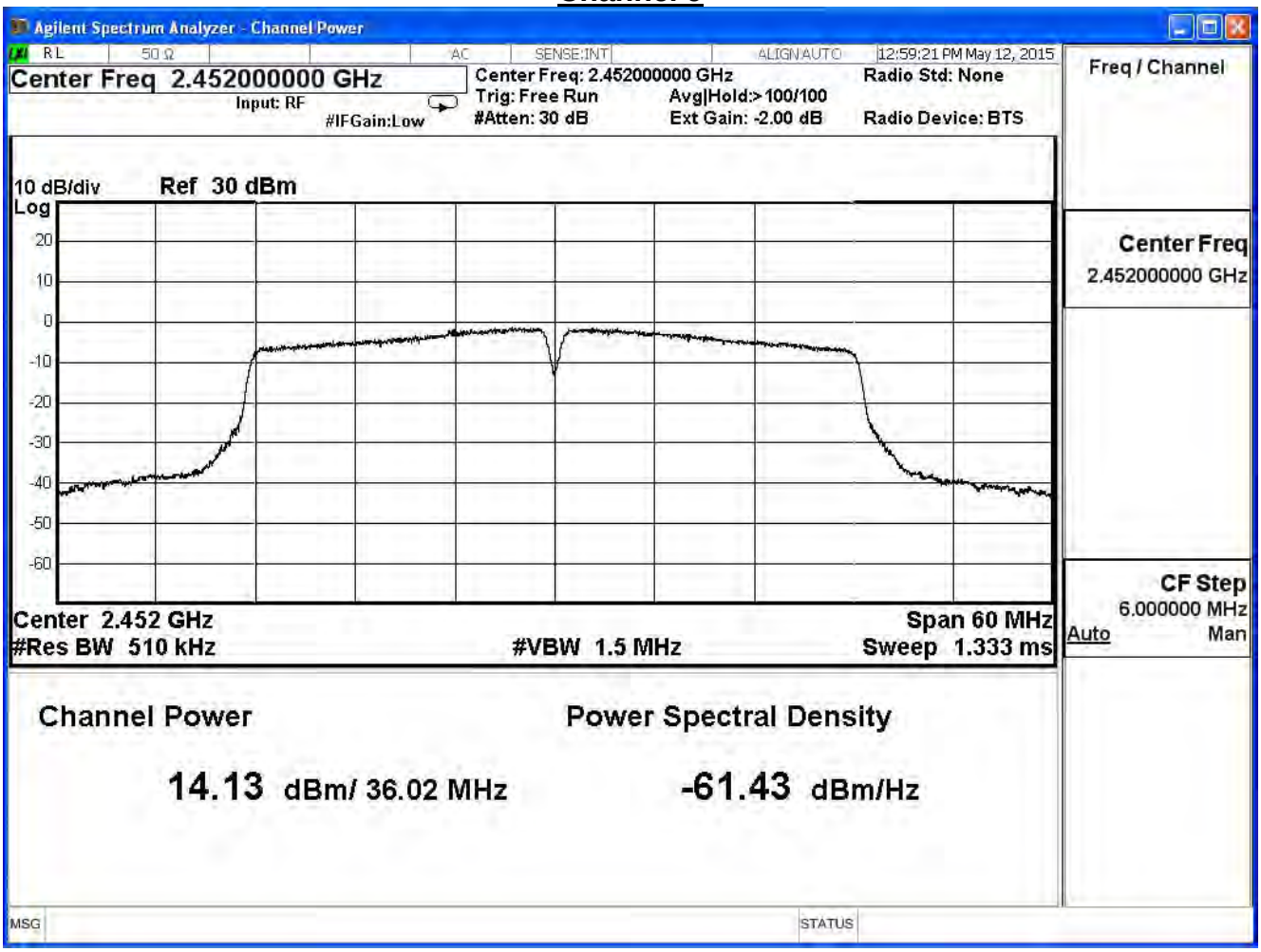
Channel 3


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:49:02 PM May 12, 2015
Center Freq 2.422000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
14.13 dBm/ 36.15 MHz
Power Spectral Density
-61.45 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:54:59 PM May 12, 2015
Center Freq 2.437000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.437000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Ref 30 dBm
Log
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
18.43 dBm/ 36.1 MHz
Power Spectral Density
-57.14 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
12:59:21 PM May 12, 2015
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Freq / Channel
10 dB/div
Log
Ref 30 dBm
20
10
0
-10
-20
-30
-40
-50
-60
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
14.13 dBm/ 36.02 MHz
Power Spectral Density
-61.43 dBm/Hz
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measurement (dBm)	Limit (dBm)	Result
3	2422	16.90	≦30	Pass
6	2437	21.28	≦30	Pass
9	2452	16.88	≦30	Pass

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
3	2422	16.90	--	--	--	--	--	--	--	≦30
6	2437	21.28	21.12	20.95	20.74	20.61	20.49	20.31	20.07	≦30
9	2452	16.88	--	--	--	--	--	--	--	≦30

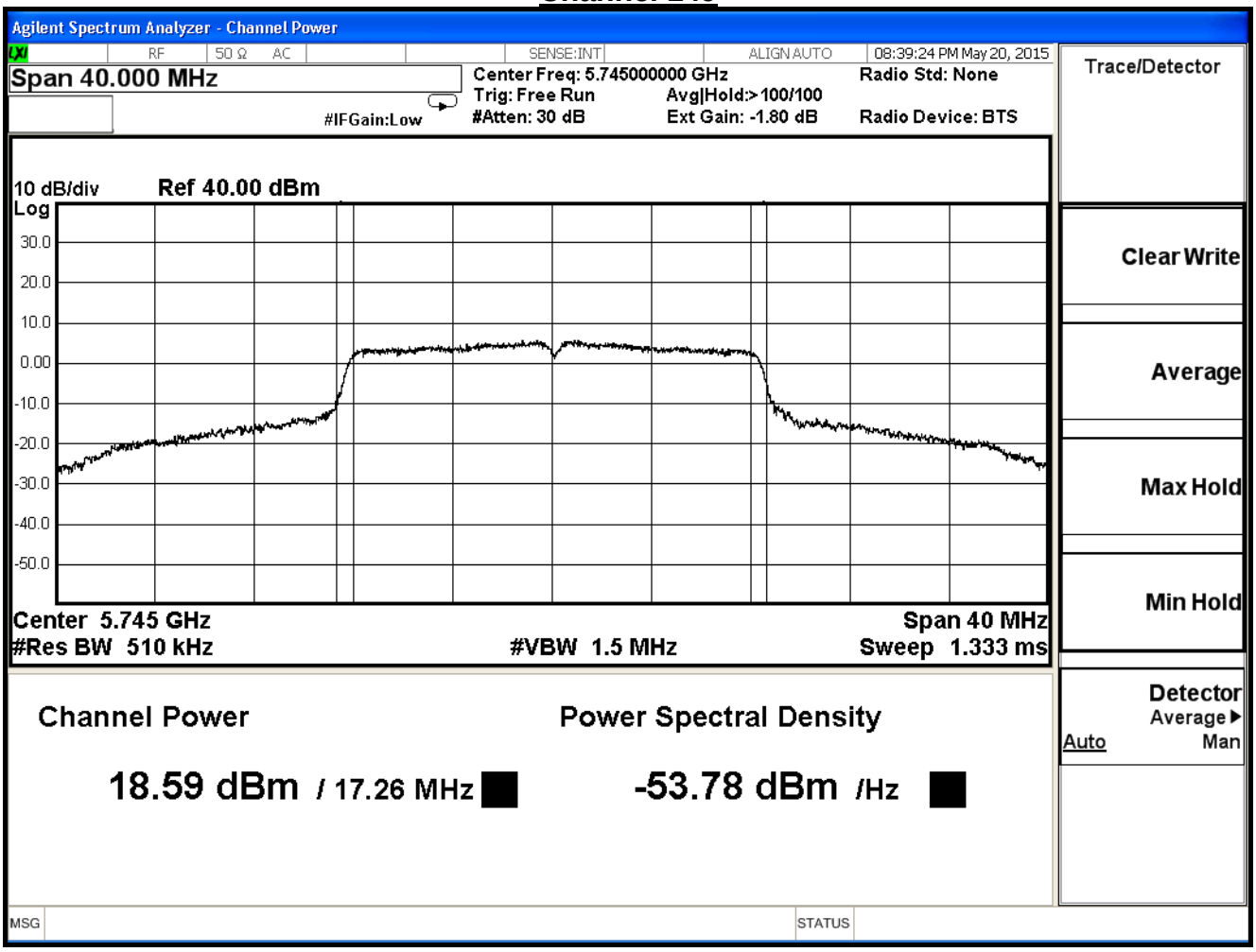
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11a (ANT 0)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	18.59	≦30	Pass
157	5785	19.05	≦30	Pass
165	5825	19.20	≦30	Pass

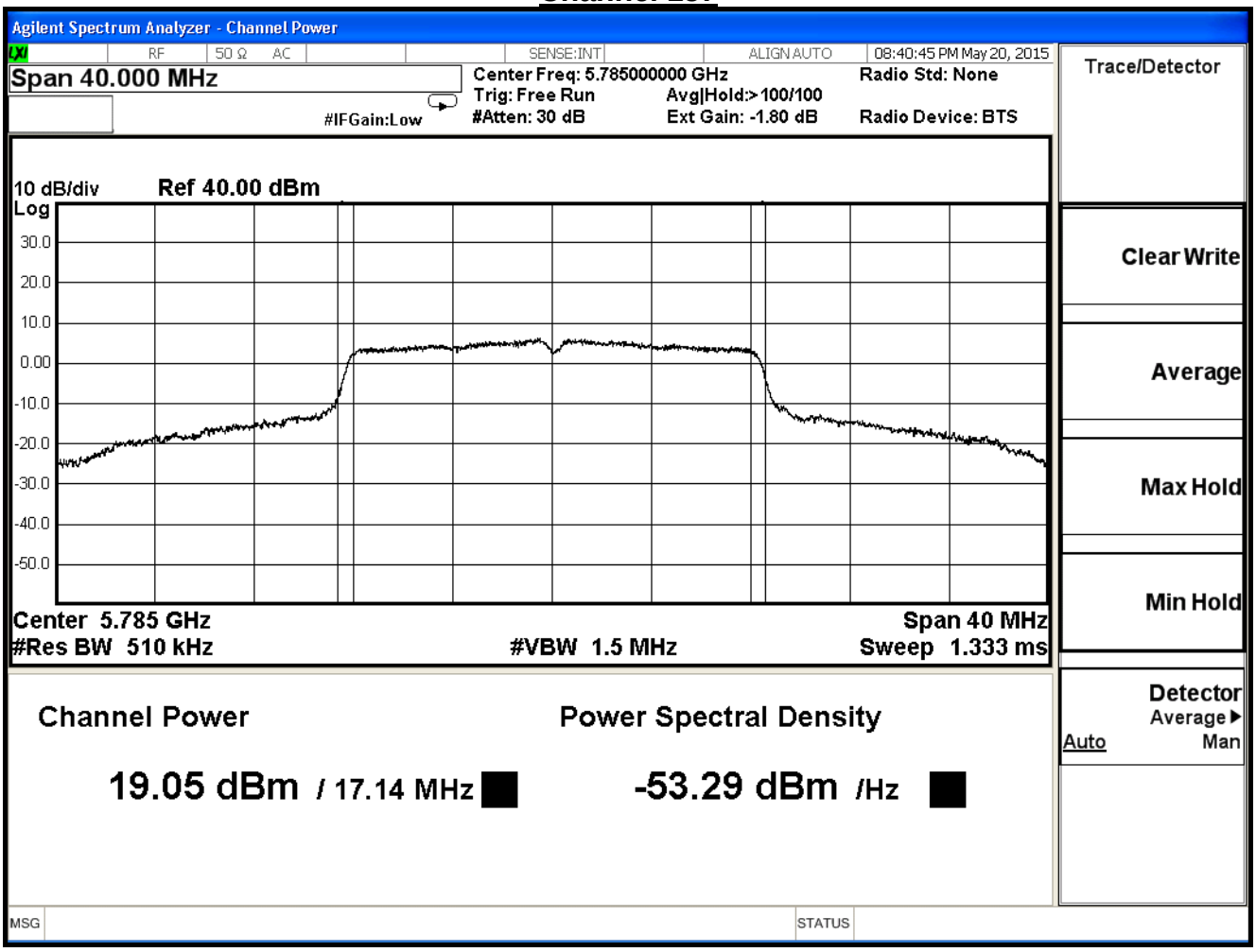
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	18.59	--	--	--	--	--	--	≦30
157	5785	19.05	18.83	18.63	18.43	18.19	17.95	17.65	≦30
165	5825	19.20	--	--	--	--	--	--	≦30

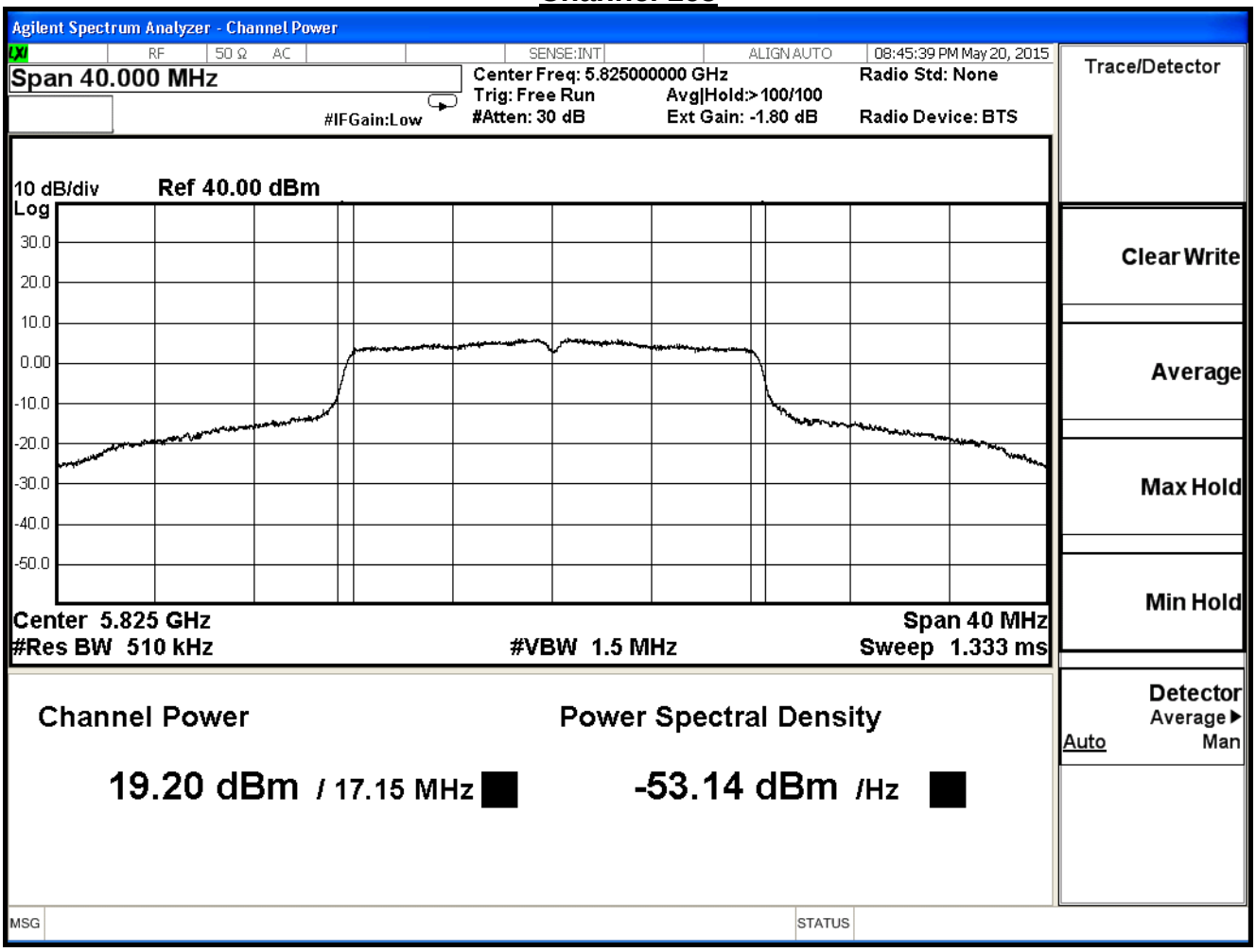
Channel 149


Agilent Spectrum Analyzer - Channel Power
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
08:39:24 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.745000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
18.59 dBm / 17.26 MHz
Power Spectral Density
-53.78 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
08:40:45 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
19.05 dBm / 17.14 MHz
Power Spectral Density
-53.29 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Channel 165


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
08:45:39 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
19.20 dBm / 17.15 MHz
Power Spectral Density
-53.14 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

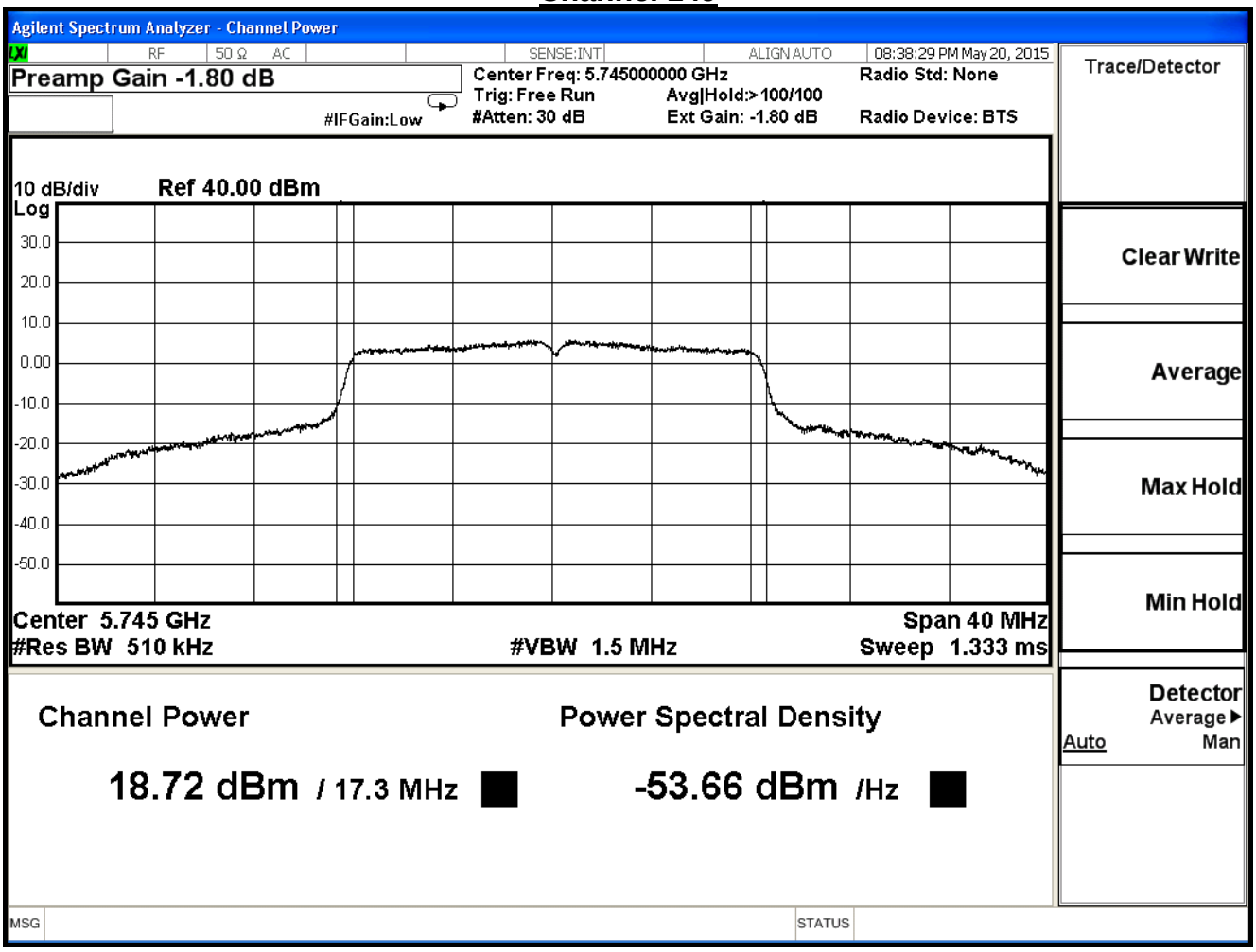
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11a (ANT 1)				
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	18.72	≦30	Pass
157	5785	19.39	≦30	Pass
165	5825	19.40	≦30	Pass

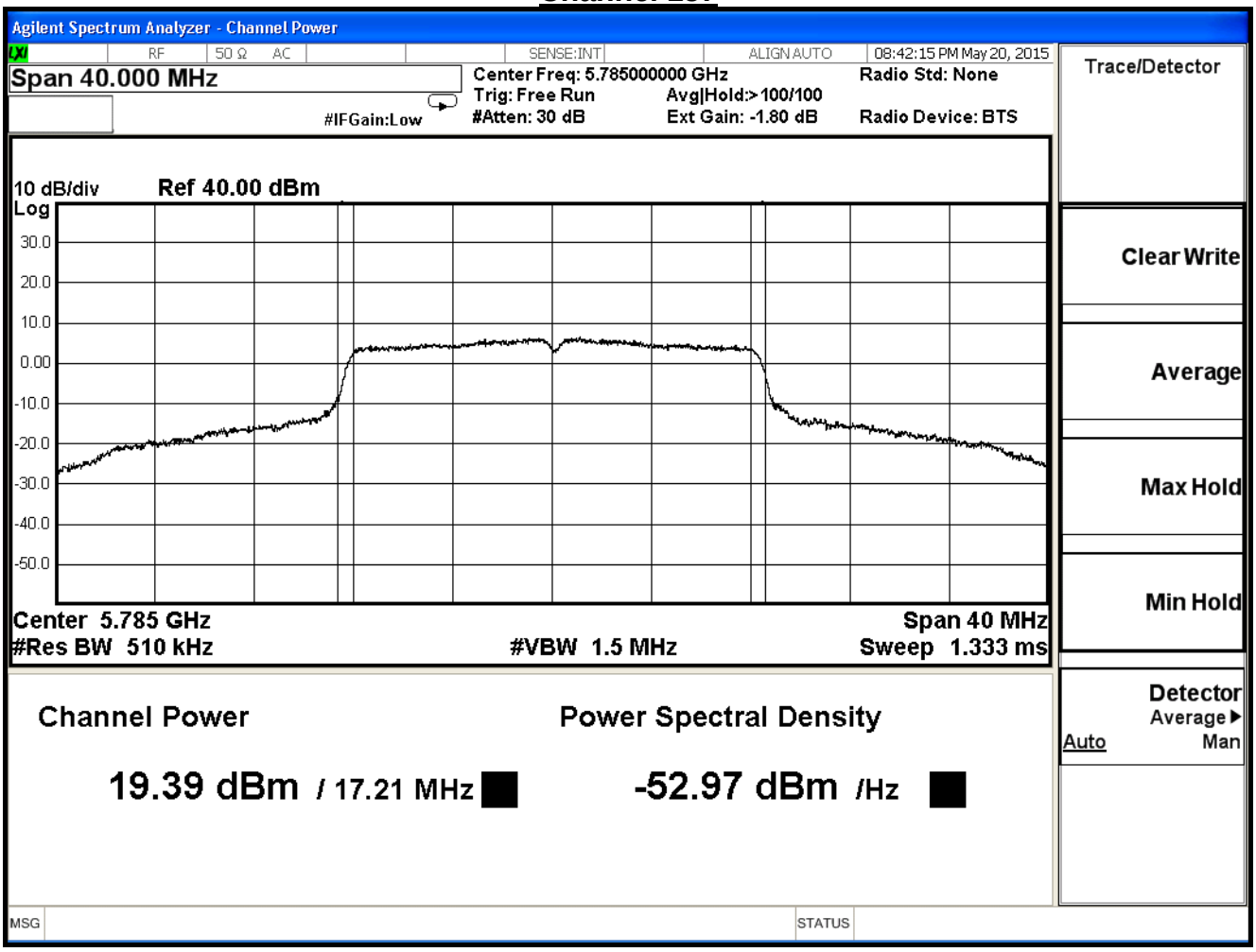
The worst emission of data rate is 6Mbps.

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	18.72	--	--	--	--	--	--	≦30
157	5785	19.39	19.29	19.05	18.95	18.75	18.49	18.37	≦30
165	5825	19.40	--	--	--	--	--	--	≦30

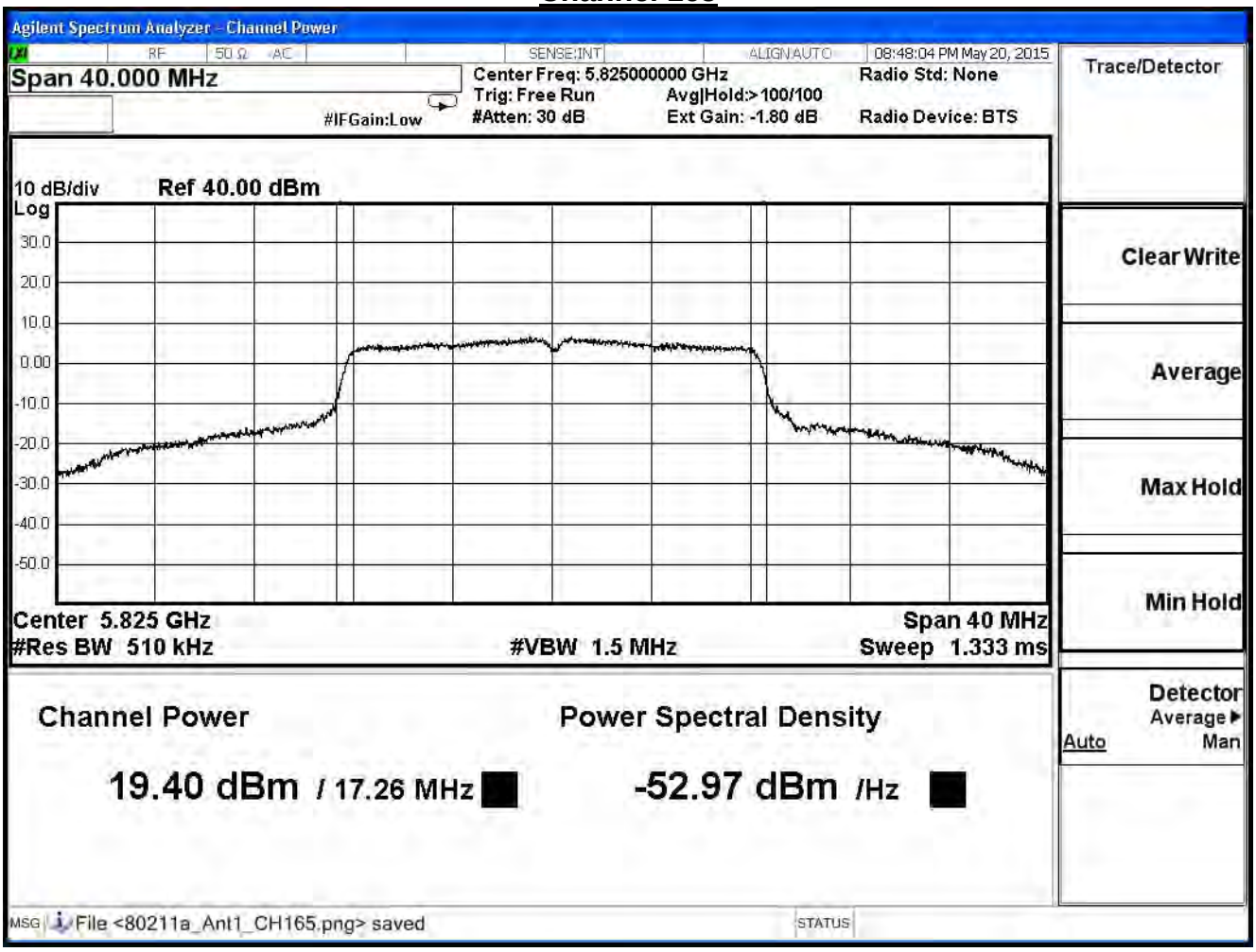
Channel 149


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
08:38:29 PM May 20, 2015
Preamp Gain -1.80 dB
#IFGain:Low
Center Freq: 5.745000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
18.72 dBm / 17.3 MHz
Power Spectral Density
-53.66 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
08:42:15 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
19.39 dBm / 17.21 MHz
Power Spectral Density
-52.97 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Channel 165


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
08:48:04 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
19.40 dBm / 17.26 MHz
Power Spectral Density
-52.97 dBm /Hz
Detector
Average
Auto
Man
MSG
File <80211a_Ant1_CH165.png> saved
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11a (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	21.67	≦30	Pass
157	5785	22.23	≦30	Pass
165	5825	22.31	≦30	Pass

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate							Required Limit
		6	12	18	24	36	48	54	
149	5745	21.67	--	--	--	--	--	--	≦30
157	5785	22.23	22.08	21.86	21.71	21.49	21.24	21.04	≦30
165	5825	22.31	--	--	--	--	--	--	≦30

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

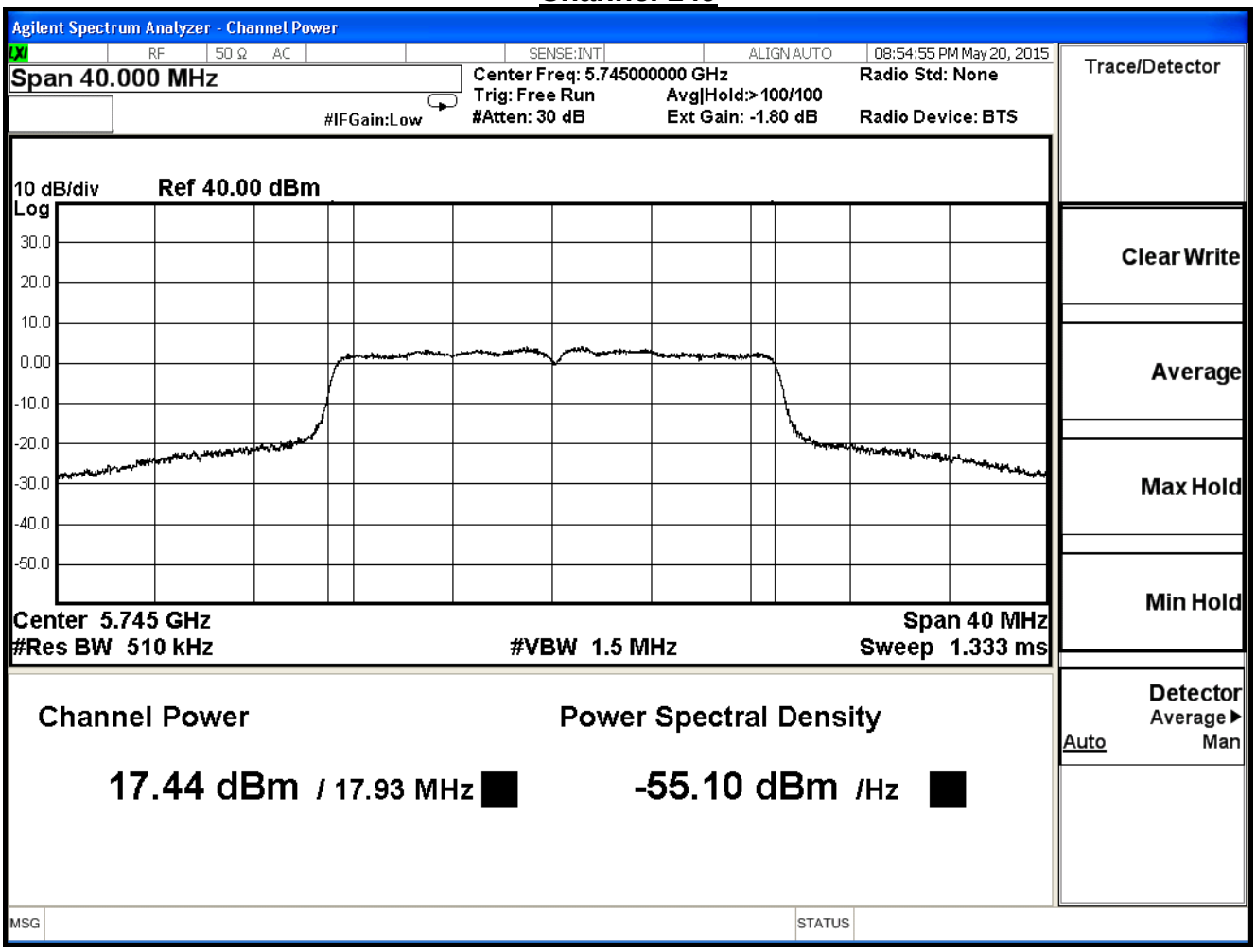
IEEE 802.11n 20MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	17.44	≦30	Pass
157	5785	18.46	≦30	Pass
165	5825	18.74	≦30	Pass

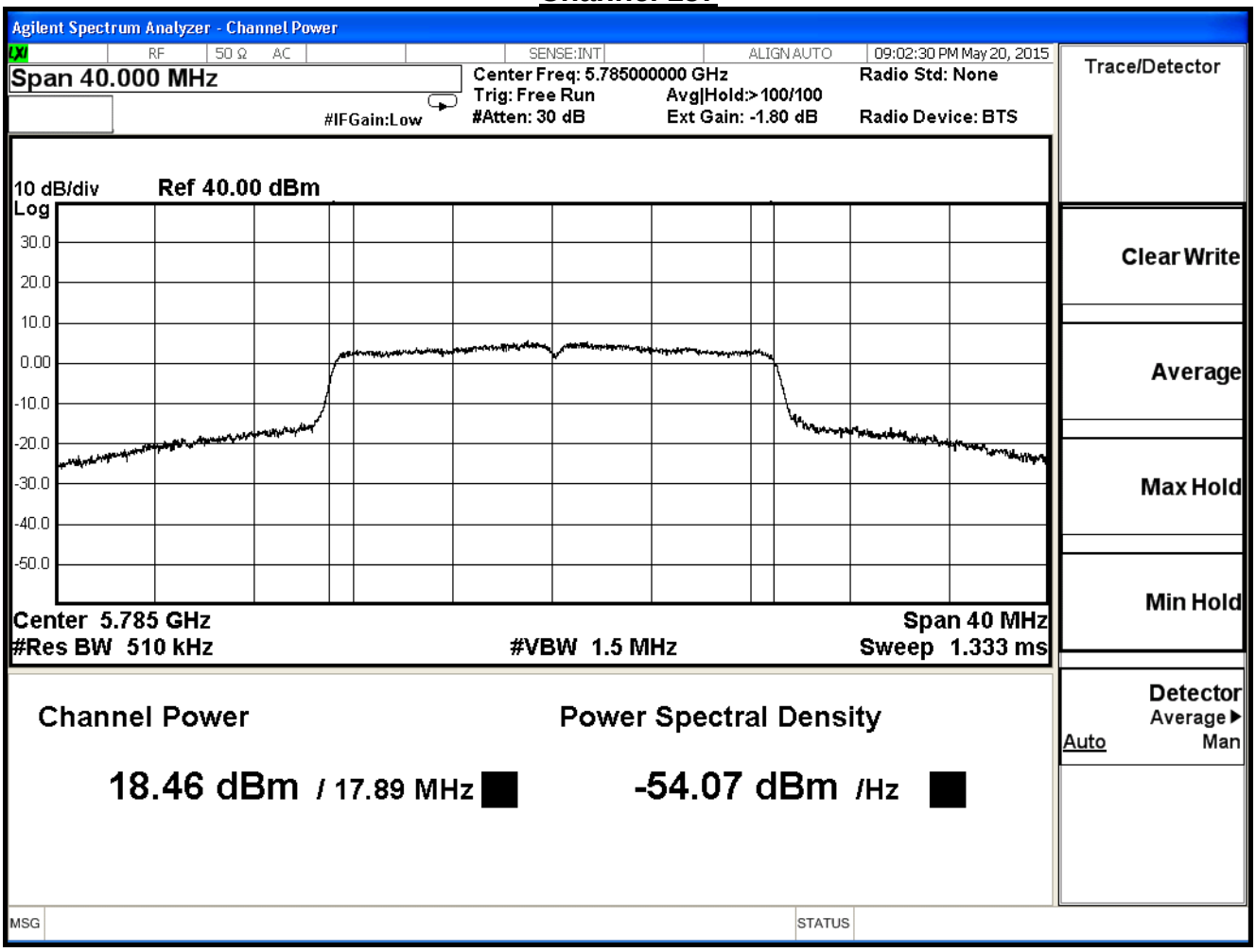
The worst emission of data rate is 6.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	17.44	--	--	--	--	--	--	--	≦30
157	5785	18.46	18.35	18.15	17.95	17.83	17.71	17.41	17.29	≦30
165	5825	18.74	--	--	--	--	--	--	--	≦30

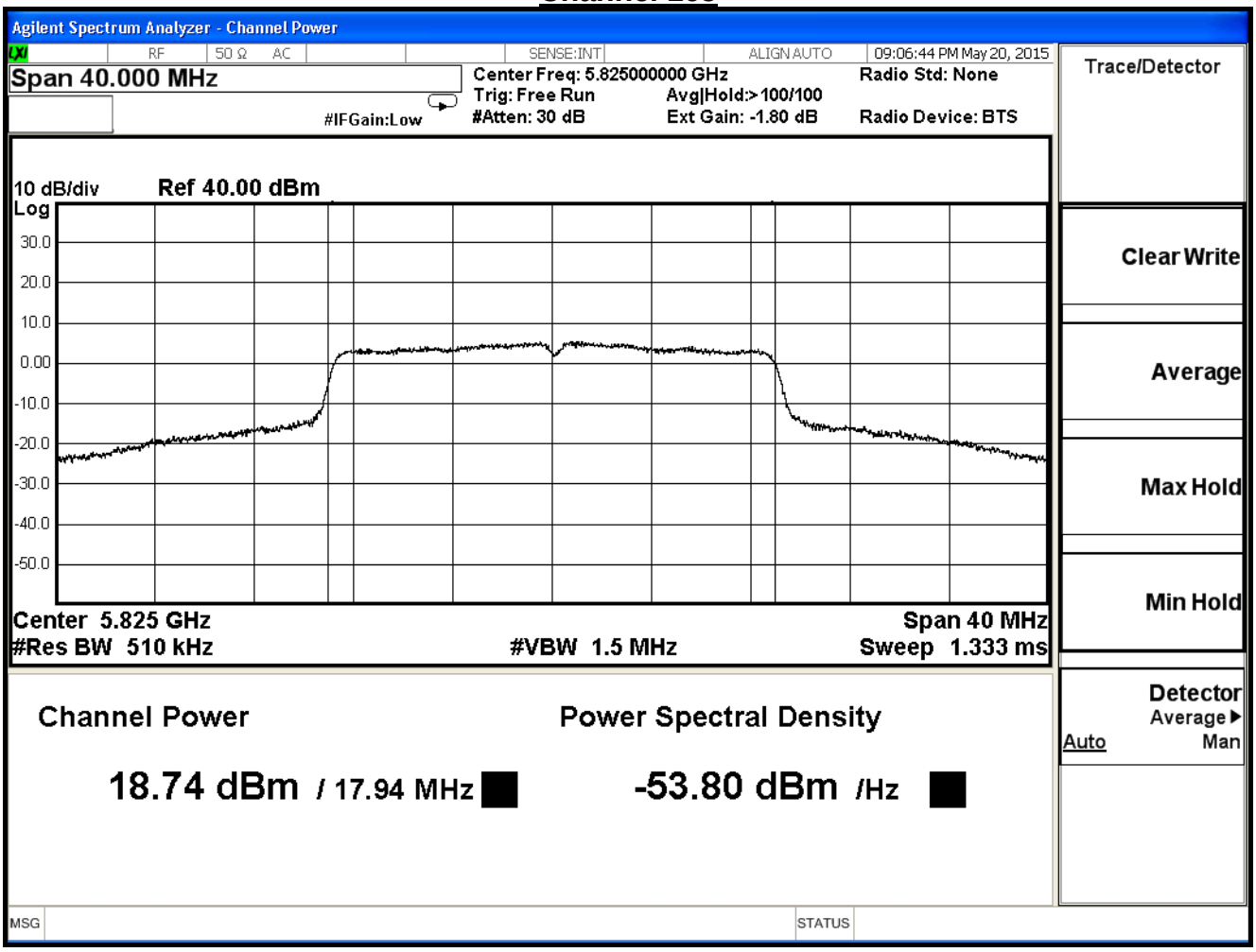
Channel 149


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
08:54:55 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.745000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
17.44 dBm / 17.93 MHz
Power Spectral Density
-55.10 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:02:30 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
18.46 dBm / 17.89 MHz
Power Spectral Density
-54.07 dBm /Hz
Detector
Auto
Average
Man
MSG
STATUS

Channel 165


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:06:44 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
18.74 dBm / 17.94 MHz
Power Spectral Density
-53.80 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

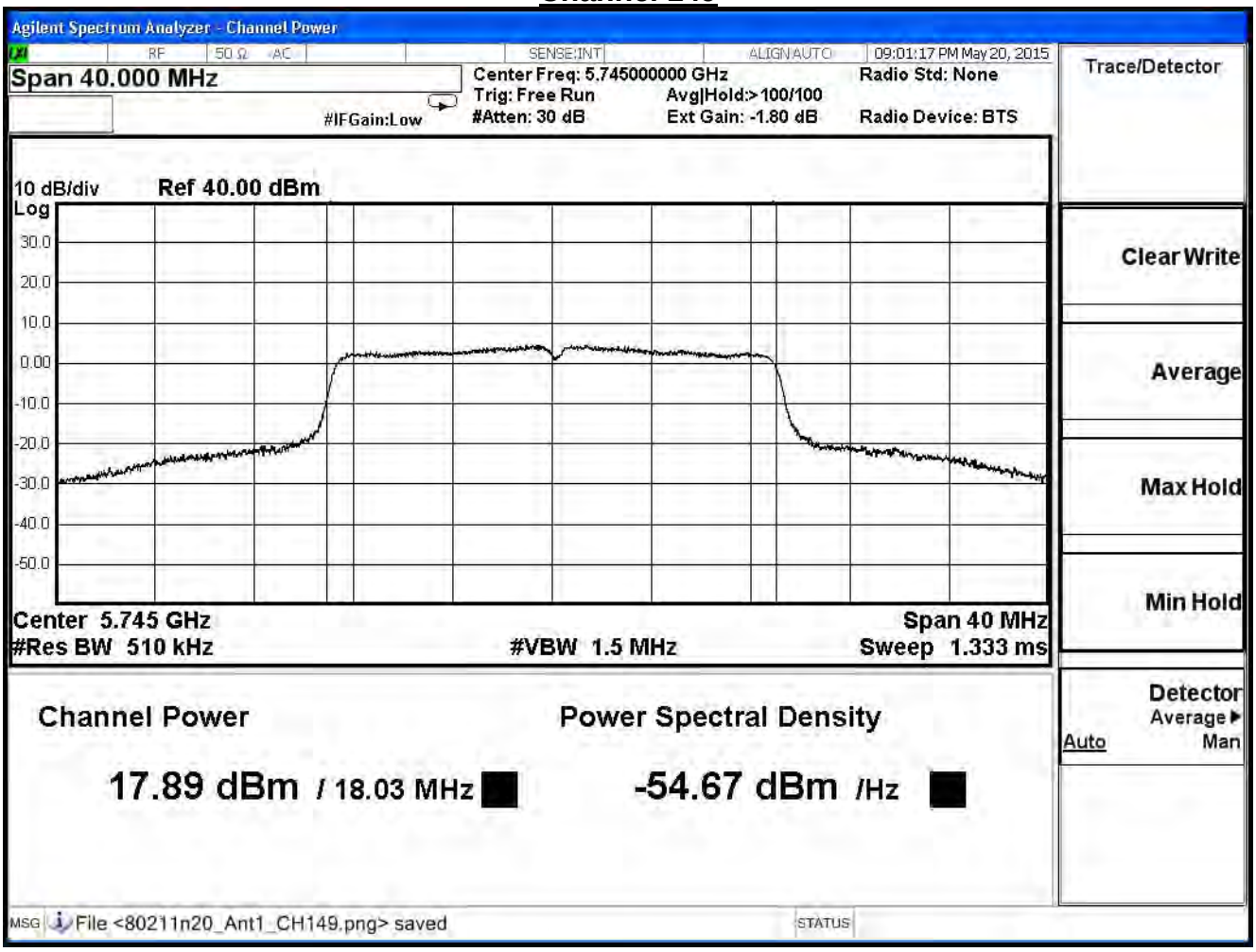
IEEE 802.11n 20MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	17.89	≦30	Pass
157	5785	18.96	≦30	Pass
165	5825	18.78	≦30	Pass

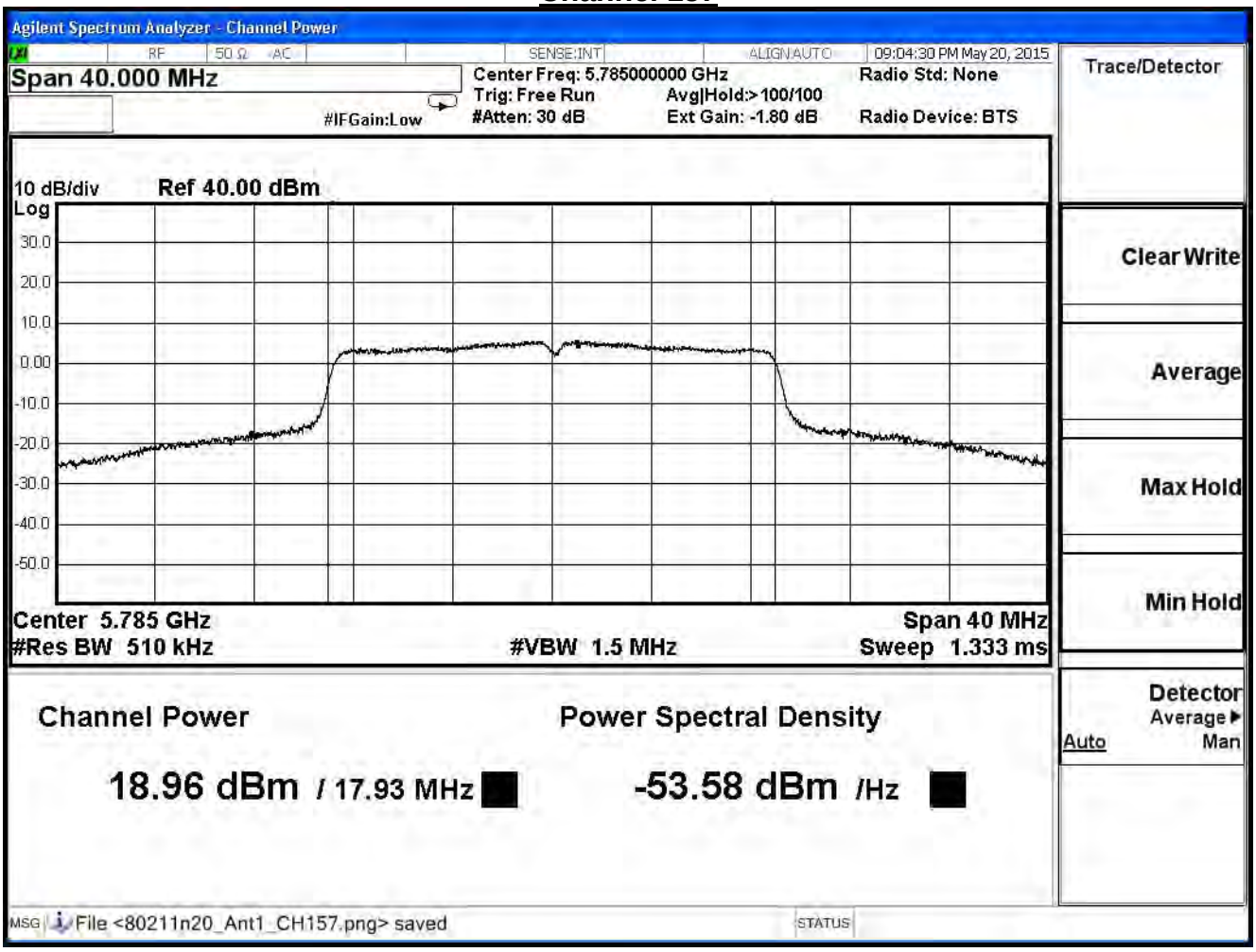
The worst emission of data rate is 6.5Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	17.89	--	--	--	--	--	--	--	≦30
157	5785	18.96	18.76	18.52	18.42	18.22	18.09	17.97	17.73	≦30
165	5825	18.78	--	--	--	--	--	--	--	≦30

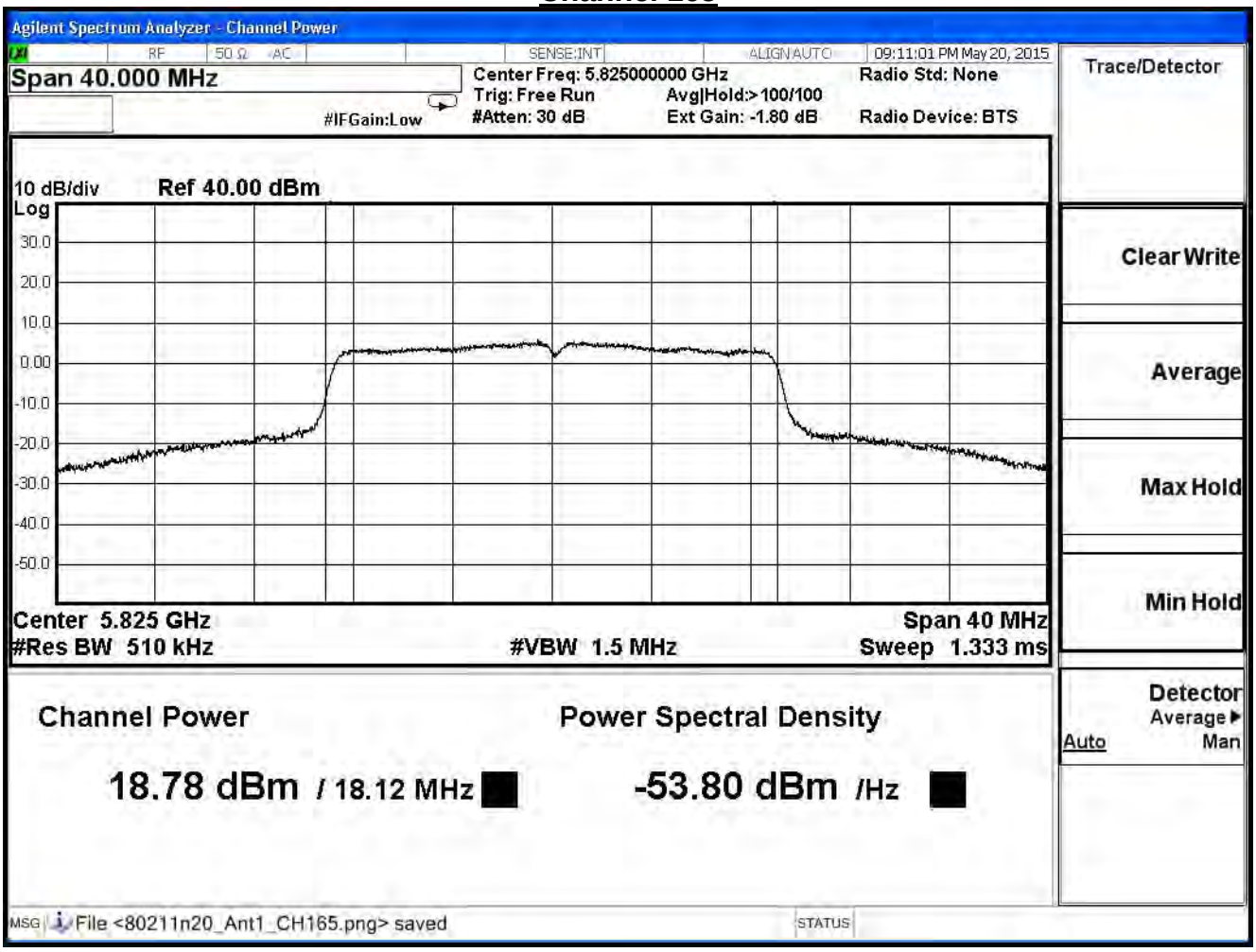
Channel 149


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:01:17 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.745000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.745 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
17.89 dBm / 18.03 MHz
Power Spectral Density
-54.67 dBm /Hz
Detector
Average
Auto
Man
MSG
File <80211n20_Ant1_CH149.png> saved
STATUS

Channel 157


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:04:30 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.785000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.785 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
18.96 dBm / 17.93 MHz
Power Spectral Density
-53.58 dBm /Hz
Detector
Average
Auto
Man
MSG
File <80211n20_Ant1_CH157.png> saved
STATUS

Channel 165


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:11:01 PM May 20, 2015
Span 40.000 MHz
Center Freq: 5.825000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.825 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 40 MHz
Sweep 1.333 ms
Channel Power
18.78 dBm / 18.12 MHz
Power Spectral Density
-53.80 dBm /Hz
Detector
Average
Auto
Man
MSG
File <80211n20_Ant1_CH165.png> saved
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11n 20MHz (ANT 0+1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	20.68	≦30	Pass
157	5785	21.73	≦30	Pass
165	5825	21.77	≦30	Pass

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		6.5	13	19.5	26	39	52	58.5	65	
149	5745	20.68	--	--	--	--	--	--	--	≦30
157	5785	21.73	21.57	21.35	21.20	21.04	20.91	20.71	20.53	≦30
165	5825	21.77	--	--	--	--	--	--	--	≦30

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

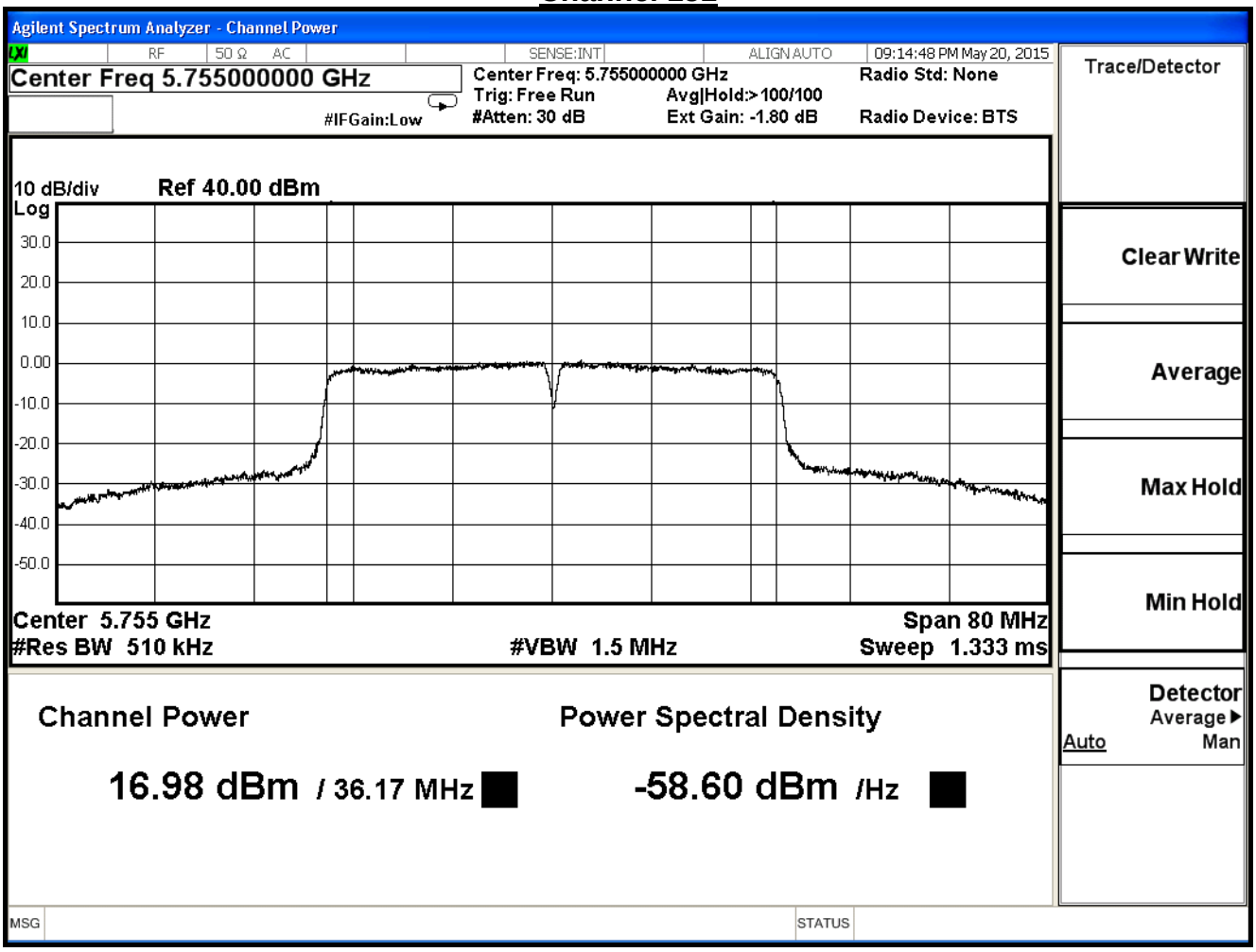
IEEE802.11n 40MHz(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	16.98	≦30	Pass
159	5795	18.89	≦30	Pass

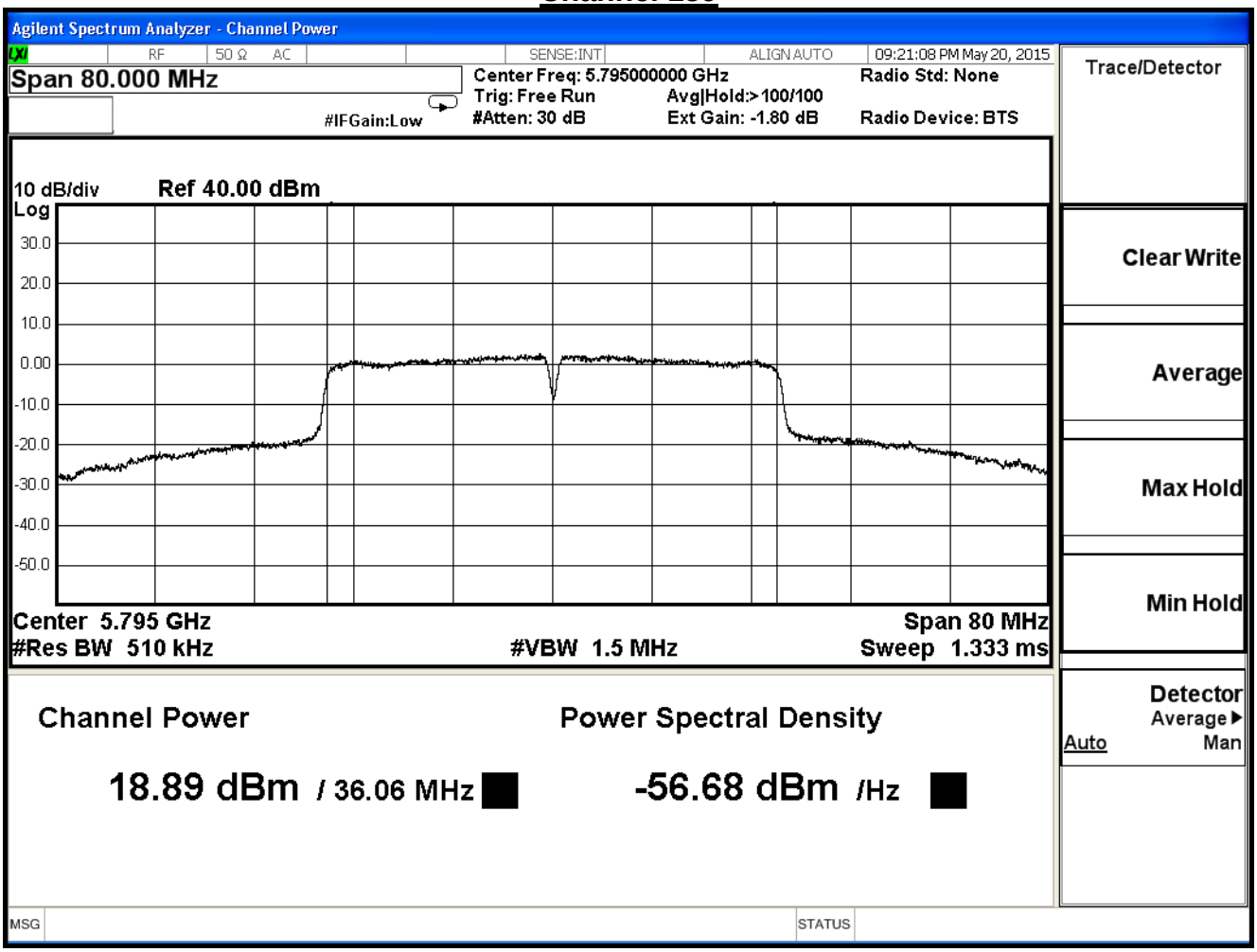
The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	16.98	--	--	--	--	--	--	--	≦30
159	5795	18.89	18.69	18.49	18.39	18.29	18.05	17.81	17.69	≦30

Channel 151


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:14:48 PM May 20, 2015
Center Freq 5.755000000 GHz
Center Freq: 5.755000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.755 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
Channel Power
16.98 dBm / 36.17 MHz
Power Spectral Density
-58.60 dBm /Hz
Detector
Auto
Average
Man
MSG
STATUS

Channel 159


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:21:08 PM May 20, 2015
Span 80.000 MHz
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Log
Ref 40.00 dBm
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.795 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
Channel Power
18.89 dBm / 36.06 MHz
Power Spectral Density
-56.68 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

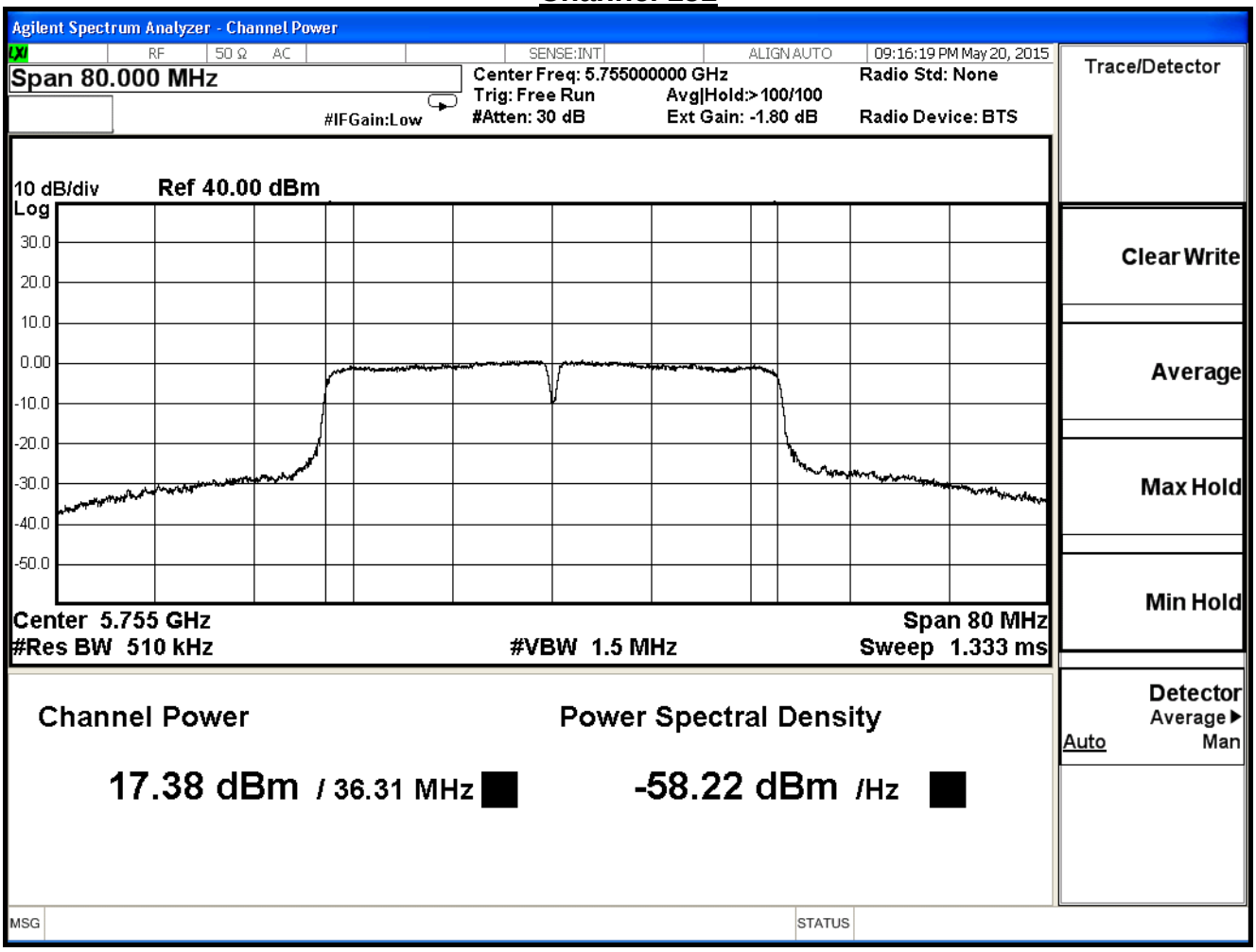
IEEE802.11n 40MHz(ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	17.38	≦30	Pass
159	5795	19.24	≦30	Pass

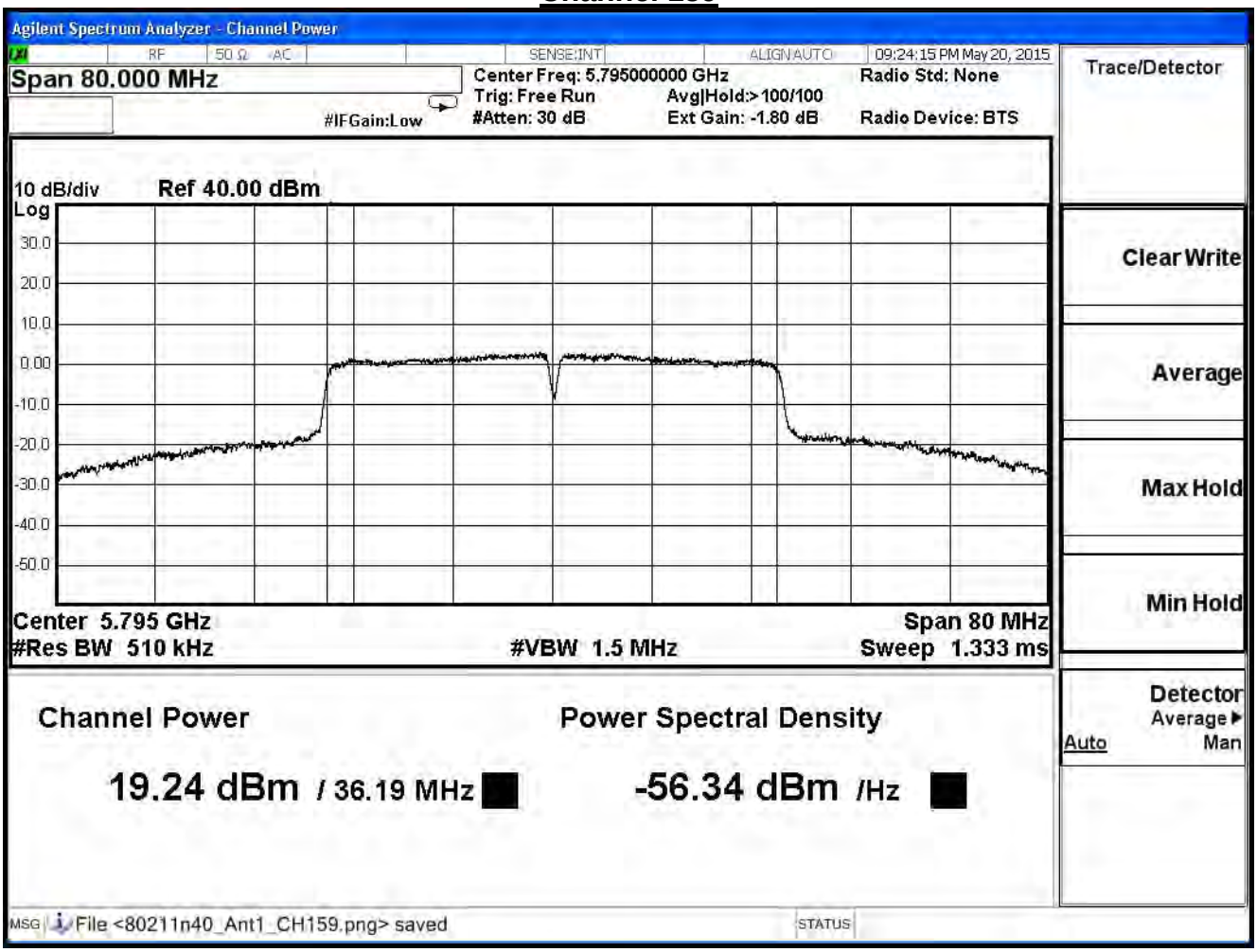
The worst emission of data rate is 13.5 Mbps.

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	17.38	--	--	--	--	--	--	--	≦30
159	5795	19.24	19.14	19.04	18.84	18.74	18.62	18.38	18.14	≦30

Channel 151


Agilent Spectrum Analyzer - Channel Power
RF
50 Ω AC
SENSE:INT
ALIGN AUTO
09:16:19 PM May 20, 2015
Span 80.000 MHz
Center Freq: 5.755000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.755 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
Channel Power
17.38 dBm / 36.31 MHz
Power Spectral Density
-58.22 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Channel 159


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:24:15 PM May 20, 2015
Span 80.000 MHz
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.795 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 80 MHz
Sweep 1.333 ms
Channel Power
19.24 dBm / 36.19 MHz
Power Spectral Density
-56.34 dBm /Hz
Detector
Auto
Average
Man
MSG
File <80211n40_Ant1_CH159.png> saved
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	20.19	≦30	Pass
159	5795	22.08	≦30	Pass

Peak Power Output (dBm)										
MCS Index		0	1	2	3	4	5	6	7	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		13.5	27	40.5	54	81	108	121.5	135	
151	5755	20.19	--	--	--	--	--	--	--	≦30
159	5795	22.08	21.93	21.78	21.63	21.53	21.35	21.11	20.93	≦30

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE802.11ac 80MHz (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	15.13	≦30	Pass

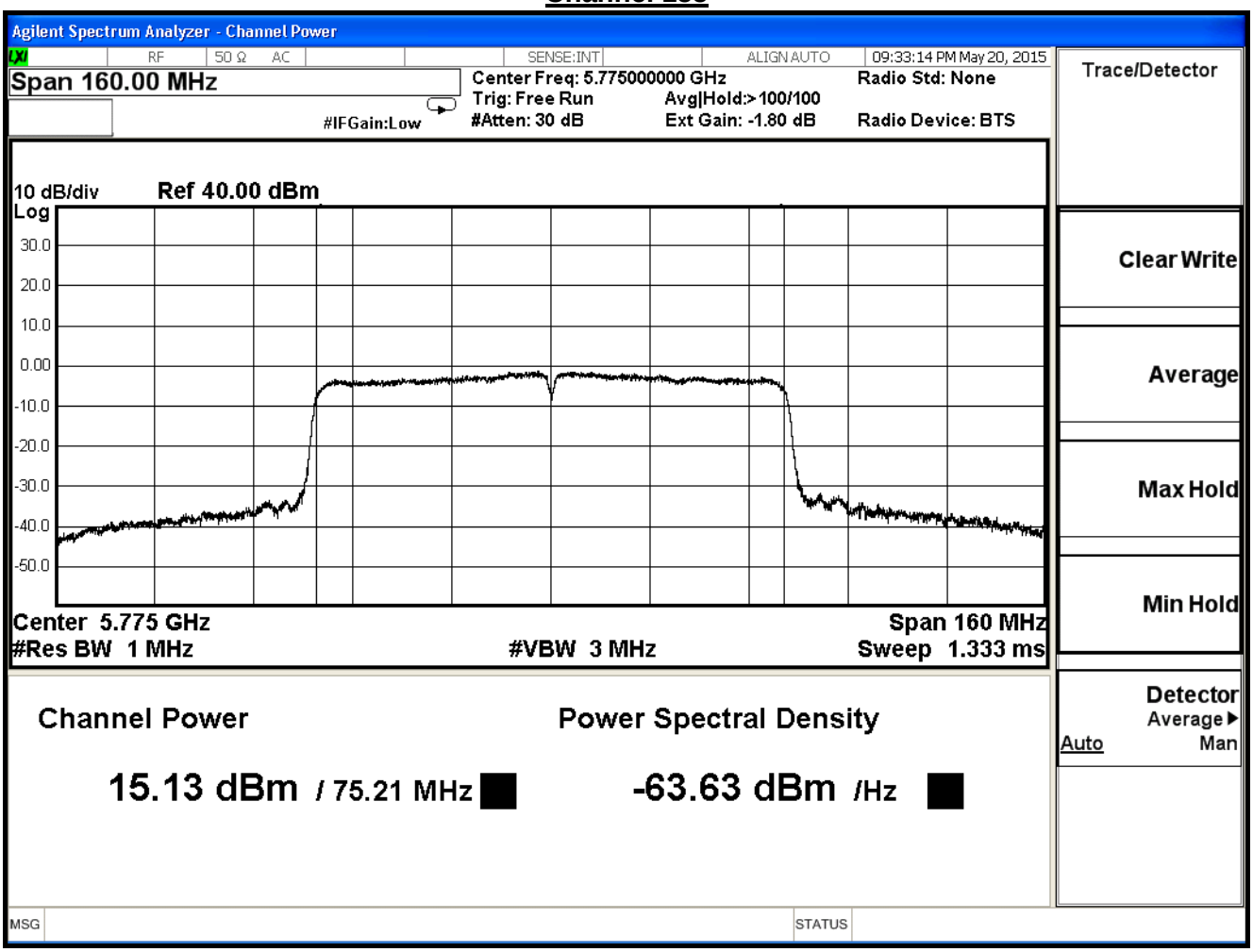
The worst emission of data rate is 29.3Mbps

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	15.13	15.03	14.93	14.73	14.53	14.33	14.09	13.97	13.85	13.73

Note:

Measure Level =Reading value + cable loss

Channel 155


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:33:14 PM May 20, 2015
Span 160.00 MHz
Center Freq: 5.775000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
#IFGain:Low
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.775 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 160 MHz
Sweep 1.333 ms
Channel Power
15.13 dBm / 75.21 MHz
Power Spectral Density
-63.63 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE802.11ac 80MHz (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	14.99	≦30	Pass

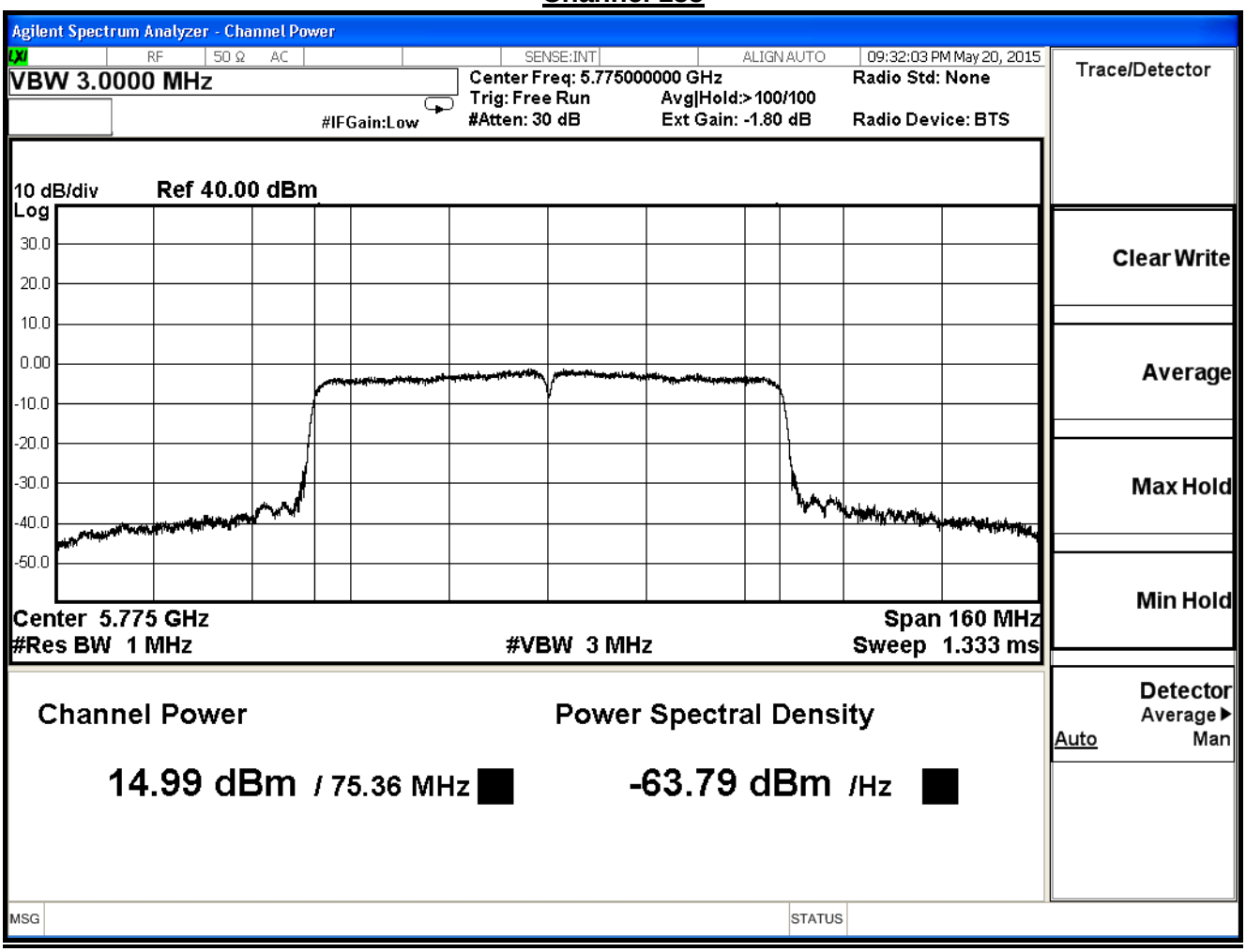
The worst emission of data rate is 29.3Mbps

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	14.99	14.79	14.69	14.49	14.29	14.09	13.97	13.85	13.61	13.37

Note:

Measure Level =Reading value + cable loss

Channel 155


Agilent Spectrum Analyzer - Channel Power
RF 50 Ω AC
SENSE:INT
ALIGN AUTO
09:32:03 PM May 20, 2015
VBW 3.0000 MHz
#IFGain:Low
Center Freq: 5.775000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.80 dB
Radio Std: None
Radio Device: BTS
Trace/Detector
10 dB/div
Ref 40.00 dBm
Log
30.0
20.0
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
Clear Write
Average
Max Hold
Min Hold
Center 5.775 GHz
#Res BW 1 MHz
#VBW 3 MHz
Span 160 MHz
Sweep 1.333 ms
Channel Power
14.99 dBm / 75.36 MHz
Power Spectral Density
-63.79 dBm /Hz
Detector
Average
Auto
Man
MSG
STATUS

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	18.07	≦30	Pass

The worst emission of data rate is 29.3Mbps

Peak Power Output (dBm)											
MCS Index		0	1	2	3	4	5	6	7	8	9
Channel No	Frequency (MHz)	Data Rate									
		29.3	58.5	87.8	117	175.5	234	263.3	292.5	351	390
42	5210	18.07	17.92	17.82	17.62	17.42	17.22	17.04	16.92	16.74	16.56

Note:

Measure Level =Reading value + cable loss

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

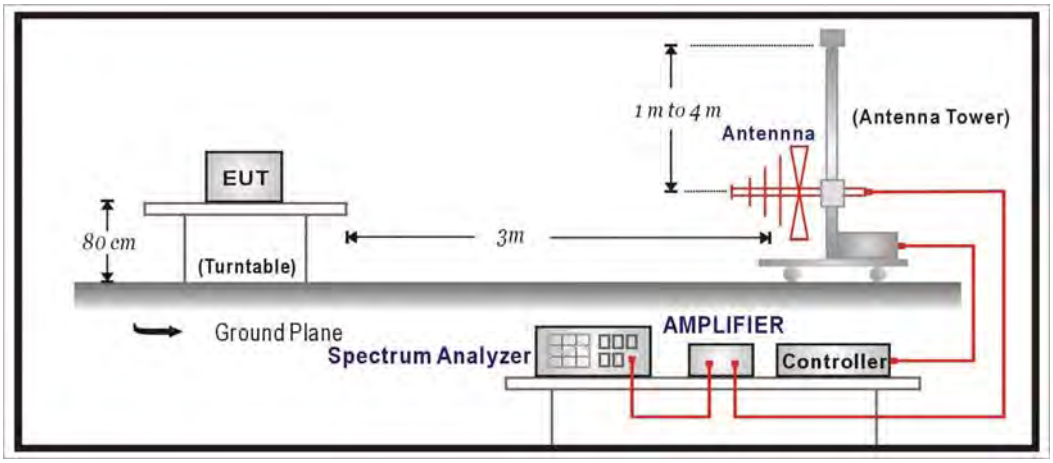
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895(CB1)	2015/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2016/01/26
Pre-Amplifier	EMCI	EMC0031835	980233	2016/01/18
Pre-Amplifier	QuieTek	AP-025C	CHM-0706049	2016/01/18
Spectrum Analyzer	Agilent	E4440A	MY46187335	2016/01/07
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2016/01/26

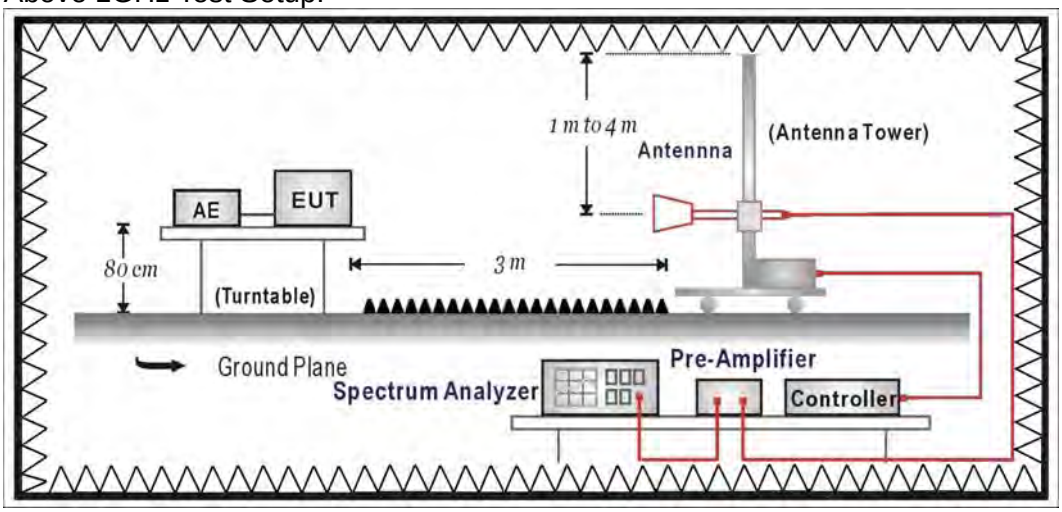
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

4.2. Test Setup

Under 1GHz Test Setup:



Above 1GHz Test Setup:



4.3. Limits

Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 20dB below the level of the fundamental or to the general radiated emission limits in paragraph 15.209, whichever is the lesser attenuation.

FCC Part 15 Subpart C Paragraph 15.209 Limits		
Frequency MHz	dBuV/m	dBuV/m
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

Remarks: E field strength (dBuV/m) = 20 log E field strength (uV/m)

4.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009 and tested according to DTS test procedure of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements.
The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.
Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.10: 2009 on radiated measurement.
On any frequency or frequencies below or equal to 1000 MHz, the limits shown are based on measuring equipment employing a quasi-peak detector function and on any frequency or frequencies above 1000 MHz the radiated limits shown are based upon the use of measurement instrumentation employing an average detector function. When average radiated emission measurement are included emission measurement below 1000 MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20 dB above the maximum permitted average limit.
The bandwidth below 1GHz setting on the field strength meter is 120 kHz and above 1GHz is 1MHz.

4.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

4.6. Uncertainty

The measurement uncertainty

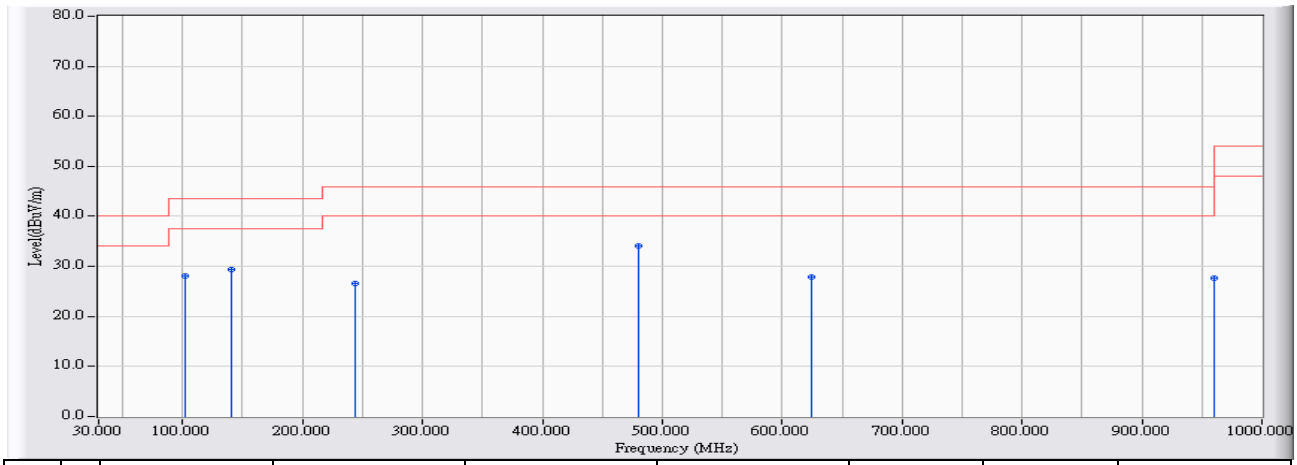
30MHz～1GHz as ±3.43dB

1GHz～26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	**Time : 2015/05/18 - 23:08**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b_2437MHz**

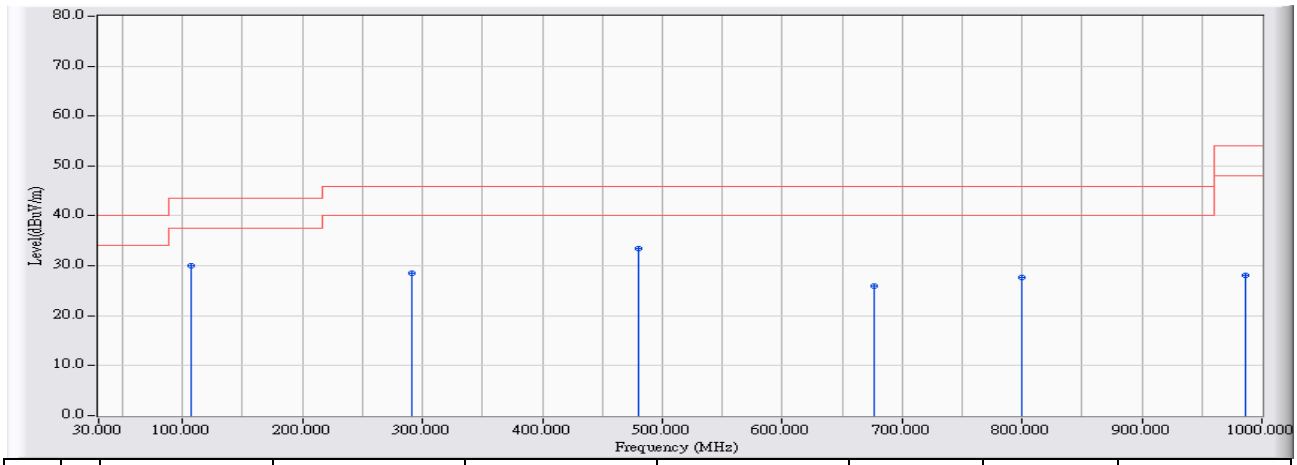


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		101.744	9.928	18.083	28.011	-15.489	43.500	QUASIPEAK
2		141.009	10.082	19.324	29.406	-14.094	43.500	QUASIPEAK
3		243.778	11.421	15.130	26.551	-19.449	46.000	QUASIPEAK
4	*	479.855	16.774	17.357	34.131	-11.869	46.000	QUASIPEAK
5		624.798	17.610	10.306	27.916	-18.084	46.000	QUASIPEAK
6		959.765	19.960	7.702	27.662	-18.338	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 20:24**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b_2437MHz**

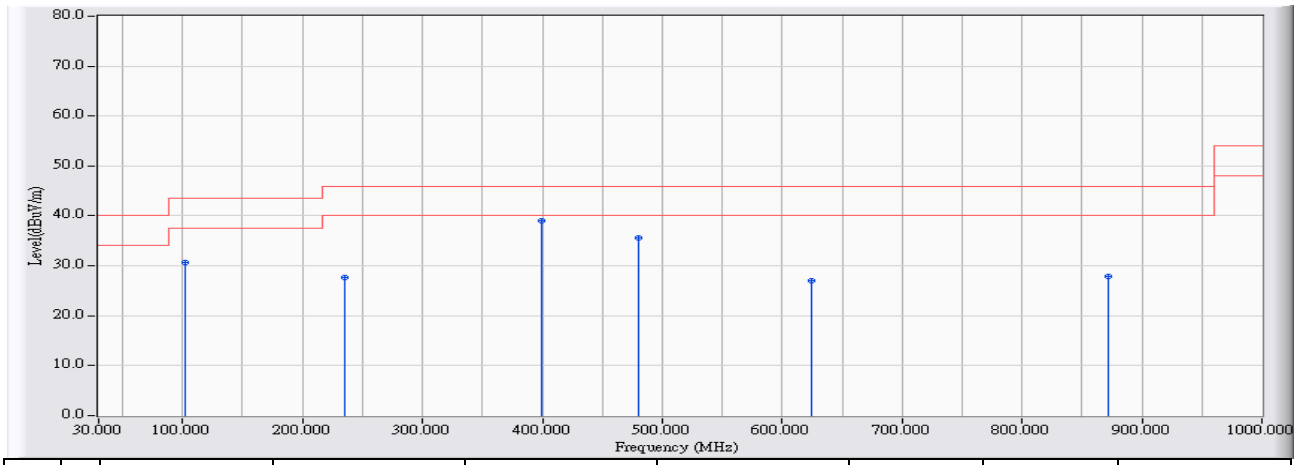


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		106.592	10.165	19.842	30.006	-13.494	43.500	QUASIPEAK
2		290.800	12.593	15.985	28.577	-17.423	46.000	QUASIPEAK
3	*	479.855	16.774	16.756	33.530	-12.470	46.000	QUASIPEAK
4		676.667	17.873	8.107	25.981	-20.019	46.000	QUASIPEAK
5		799.795	19.211	8.558	27.768	-18.232	46.000	QUASIPEAK
6		986.427	20.178	7.920	28.098	-25.902	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 23:17**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g_2437MHz**

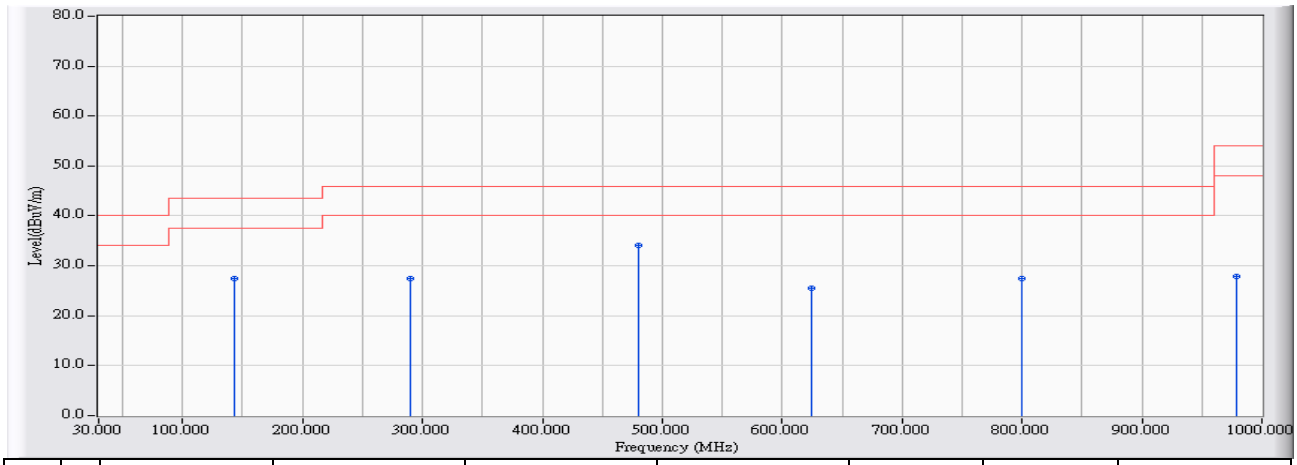


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		101.744	9.928	20.837	30.765	-12.735	43.500	QUASIPEAK
2		235.537	10.808	16.914	27.722	-18.278	46.000	QUASIPEAK
3	*	399.870	15.150	23.987	39.138	-6.862	46.000	QUASIPEAK
4		479.855	16.774	18.738	35.512	-10.488	46.000	QUASIPEAK
5		624.798	17.610	9.475	27.085	-18.915	46.000	QUASIPEAK
6		872.509	19.401	8.473	27.874	-18.126	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 20:28**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g_2437MHz**

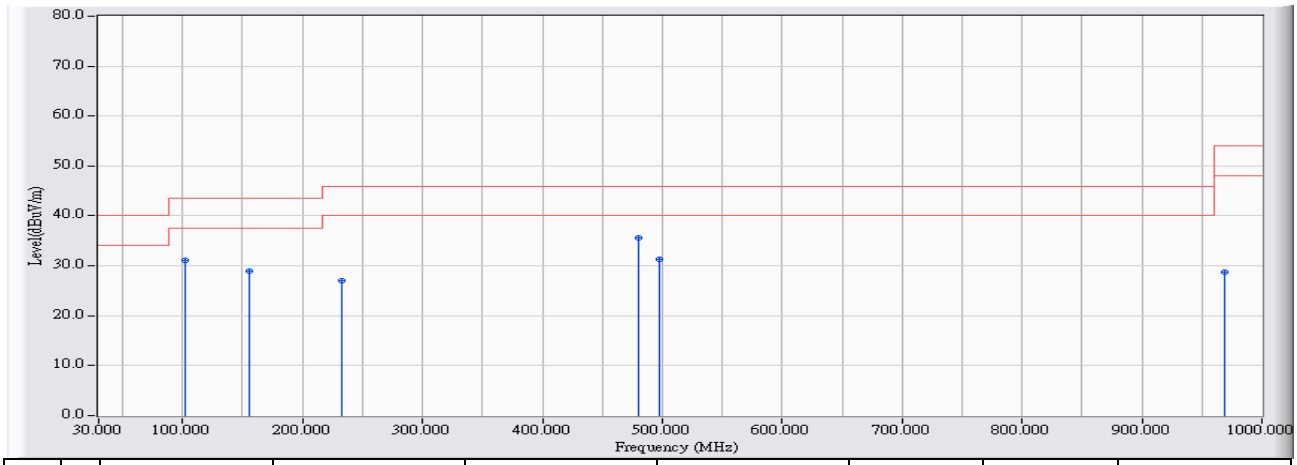


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		142.949	9.985	17.396	27.381	-16.119	43.500	QUASIPEAK
2		289.345	12.567	14.813	27.380	-18.620	46.000	QUASIPEAK
3	*	479.855	16.774	17.272	34.046	-11.954	46.000	QUASIPEAK
4		624.313	17.607	8.011	25.618	-20.382	46.000	QUASIPEAK
5		799.795	19.211	8.164	27.374	-18.626	46.000	QUASIPEAK
6		979.155	20.119	7.843	27.962	-26.038	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 23:21**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20_2437MHz**

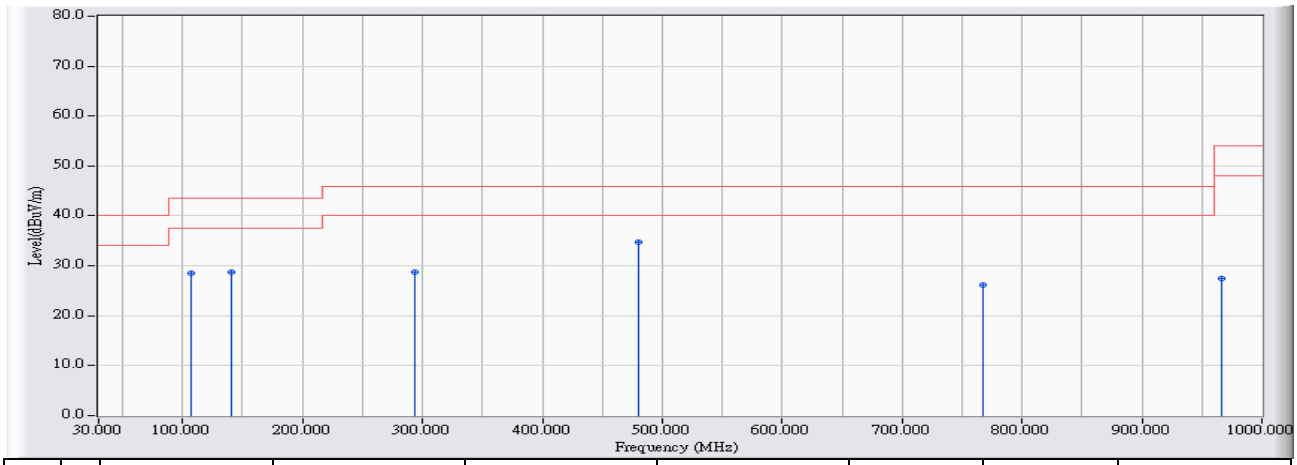


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		101.744	9.928	21.259	31.187	-12.313	43.500	QUASIPEAK
2		155.552	9.358	19.695	29.053	-14.447	43.500	QUASIPEAK
3		233.113	10.628	16.318	26.946	-19.054	46.000	QUASIPEAK
4	*	479.855	16.774	18.742	35.516	-10.484	46.000	QUASIPEAK
5		497.791	17.138	14.119	31.257	-14.743	46.000	QUASIPEAK
6		968.976	20.035	8.617	28.653	-25.347	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 20:33**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20_2437MHz**

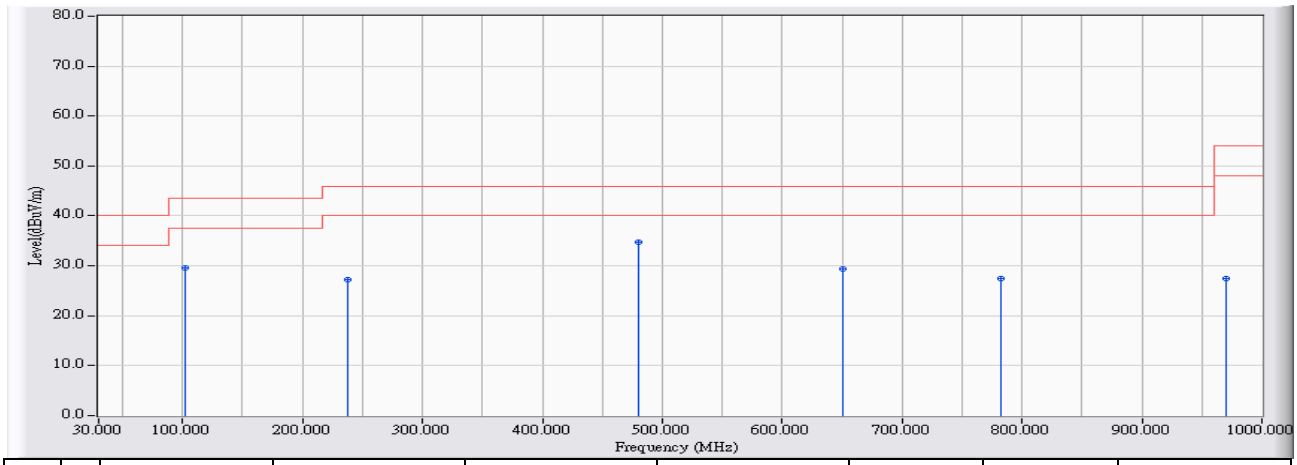


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		106.592	10.165	18.360	28.524	-14.976	43.500	QUASIPEAK
2		141.009	10.082	18.562	28.644	-14.856	43.500	QUASIPEAK
3		293.708	12.643	16.161	28.804	-17.196	46.000	QUASIPEAK
4	*	479.855	16.774	17.876	34.650	-11.350	46.000	QUASIPEAK
5		767.801	18.820	7.393	26.214	-19.786	46.000	QUASIPEAK
6		966.067	20.012	7.444	27.456	-26.544	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 23:23**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : 802.11n40_2437MHz**

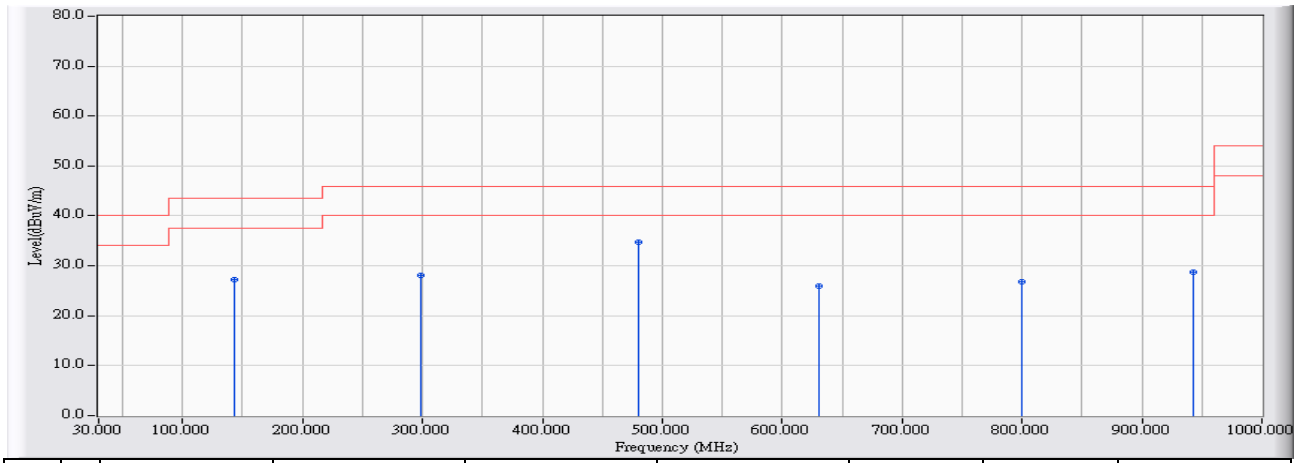


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		101.744	9.928	19.753	29.681	-13.819	43.500	QUASIPEAK
2		237.961	10.989	16.232	27.220	-18.780	46.000	QUASIPEAK
3	*	479.855	16.774	18.060	34.834	-11.166	46.000	QUASIPEAK
4		650.490	17.740	11.598	29.338	-16.662	46.000	QUASIPEAK
5		781.859	18.993	8.379	27.371	-18.629	46.000	QUASIPEAK
6		970.430	20.047	7.478	27.525	-26.475	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 20:40**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40_2437MHz**

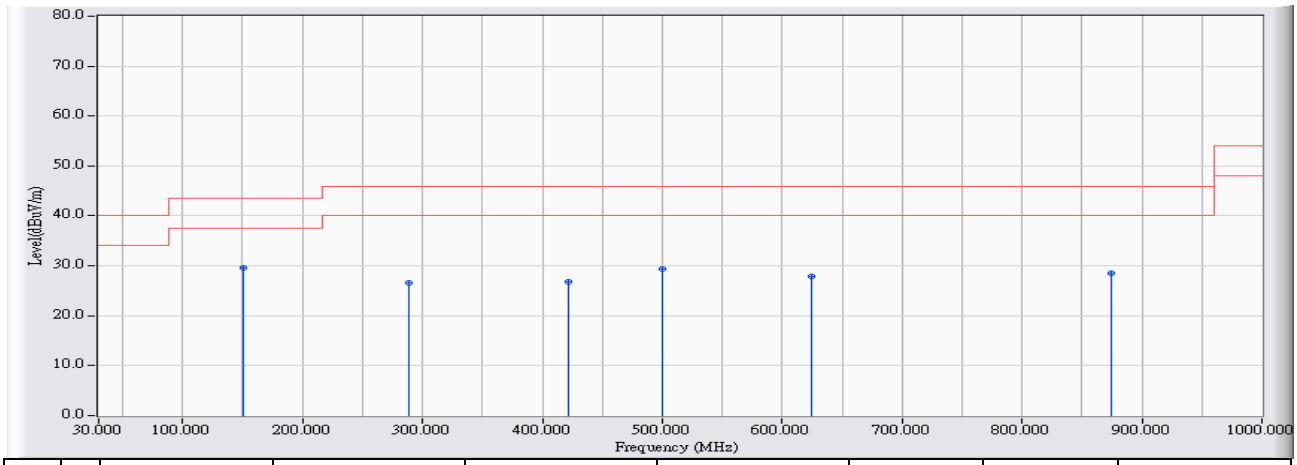


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		142.949	9.985	17.319	27.304	-16.196	43.500	QUASIPEAK
2		299.040	12.736	15.436	28.171	-17.829	46.000	QUASIPEAK
3	*	479.855	16.774	17.963	34.737	-11.263	46.000	QUASIPEAK
4		630.130	17.637	8.247	25.884	-20.116	46.000	QUASIPEAK
5		799.795	19.211	7.658	26.868	-19.132	46.000	QUASIPEAK
6		943.283	19.826	8.981	28.807	-17.193	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 23:55**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a_5785MHz**

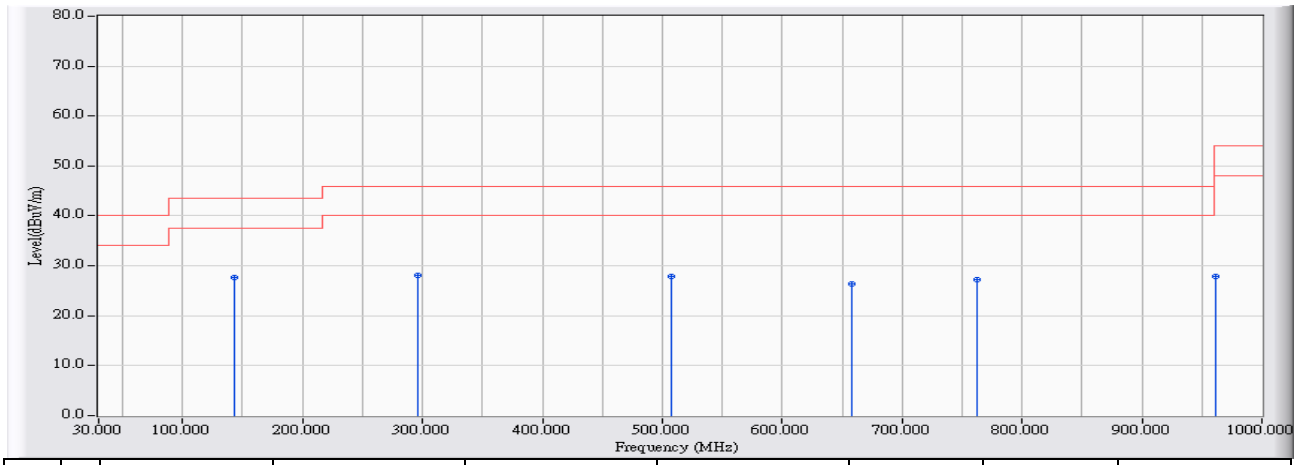


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	151.189	9.575	20.030	29.605	-13.895	43.500	QUASIPEAK
2		288.376	12.550	13.951	26.501	-19.499	46.000	QUASIPEAK
3		421.199	15.585	11.301	26.885	-19.115	46.000	QUASIPEAK
4		500.215	17.181	12.229	29.410	-16.590	46.000	QUASIPEAK
5		624.798	17.610	10.204	27.814	-18.186	46.000	QUASIPEAK
6		874.933	19.407	9.057	28.464	-17.536	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 21:37**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a_5785MHz**

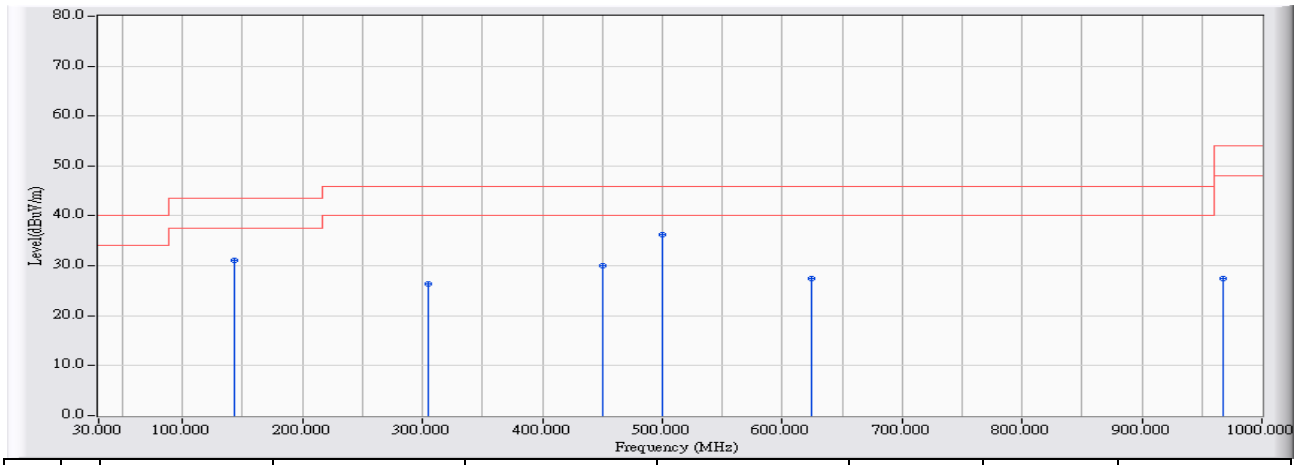


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	142.949	9.985	17.628	27.613	-15.887	43.500	QUASIPEAK
2		295.647	12.676	15.397	28.073	-17.927	46.000	QUASIPEAK
3		507.486	17.205	10.715	27.920	-18.080	46.000	QUASIPEAK
4		657.761	17.777	8.585	26.362	-19.638	46.000	QUASIPEAK
5		761.984	18.749	8.541	27.291	-18.709	46.000	QUASIPEAK
6		961.704	19.976	7.844	27.820	-26.180	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 23:54**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20_5785MHz**

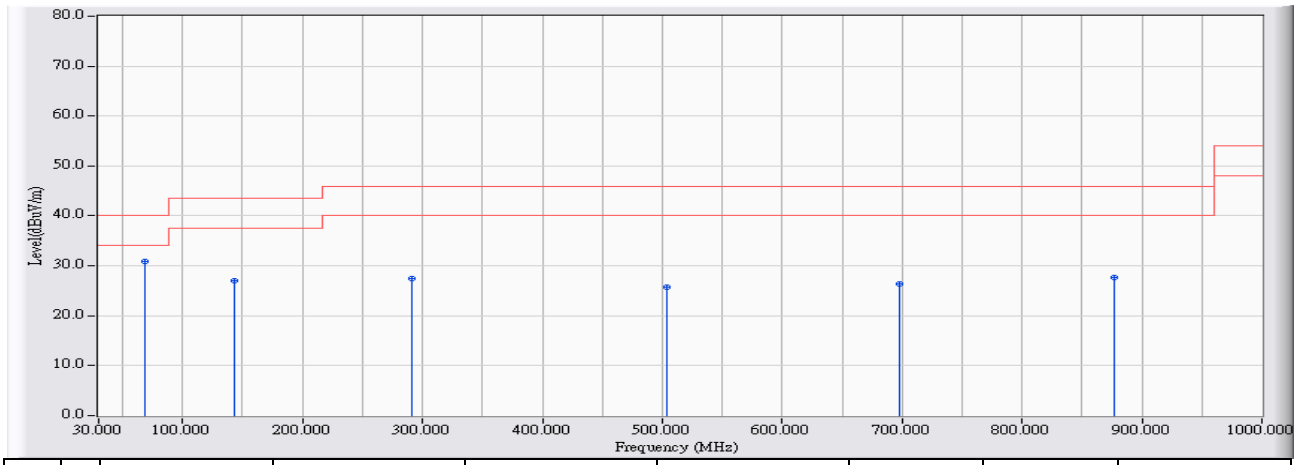


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		142.949	9.985	21.065	31.050	-12.450	43.500	QUASIPEAK
2		305.342	12.880	13.537	26.417	-19.583	46.000	QUASIPEAK
3		450.285	16.174	13.850	30.024	-15.976	46.000	QUASIPEAK
4	*	499.730	17.175	19.030	36.205	-9.795	46.000	QUASIPEAK
5		624.798	17.610	9.899	27.509	-18.491	46.000	QUASIPEAK
6		967.521	20.024	7.485	27.509	-26.491	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 21:40**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20_5785MHz**

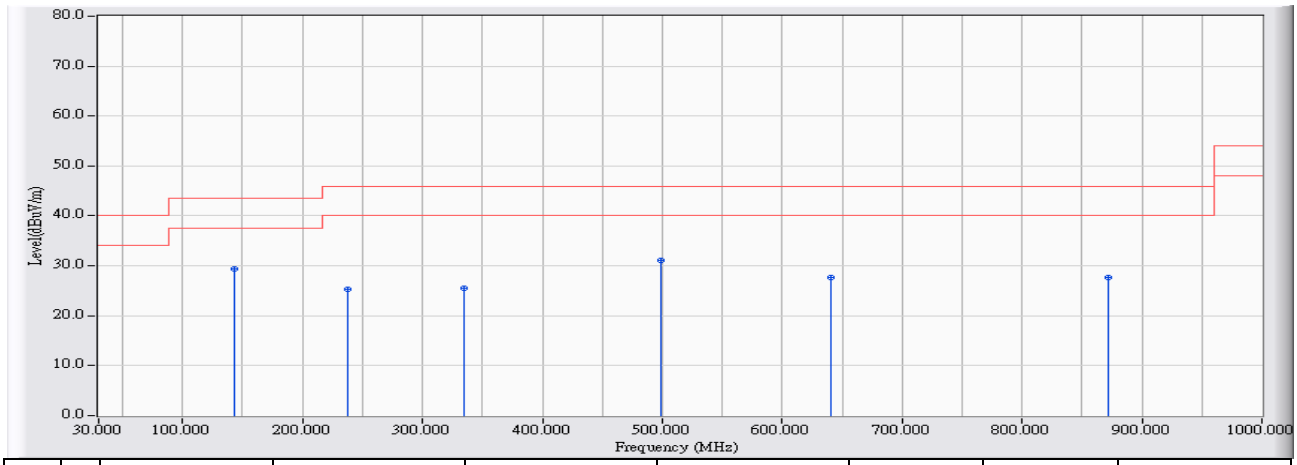


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	68.781	5.555	25.388	30.943	-9.057	40.000	QUASIPEAK
2		142.949	9.985	16.944	26.929	-16.571	43.500	QUASIPEAK
3		290.800	12.593	14.803	27.395	-18.605	46.000	QUASIPEAK
4		504.093	17.195	8.604	25.799	-20.201	46.000	QUASIPEAK
5		697.996	17.982	8.329	26.311	-19.689	46.000	QUASIPEAK
6		876.387	19.411	8.335	27.746	-18.254	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 23:50**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40_5795MHz**

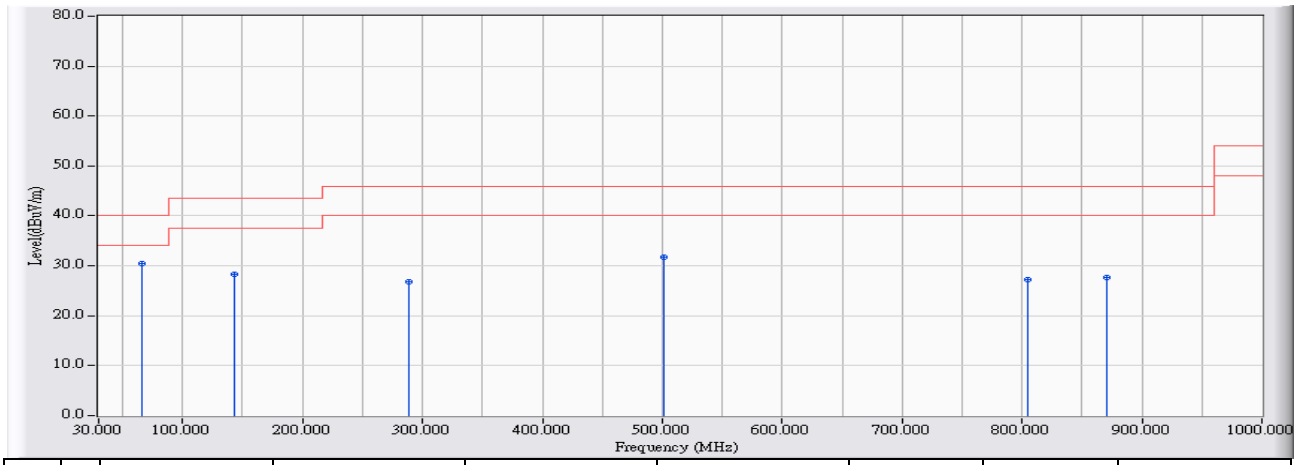


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	142.949	9.985	19.405	29.390	-14.110	43.500	QUASIPEAK
2		237.476	10.952	14.440	25.392	-20.608	46.000	QUASIPEAK
3		334.428	13.580	11.978	25.557	-20.443	46.000	QUASIPEAK
4		498.276	17.148	13.992	31.140	-14.860	46.000	QUASIPEAK
5		640.795	17.691	9.902	27.593	-18.407	46.000	QUASIPEAK
6		871.539	19.399	8.226	27.625	-18.375	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 21:44**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40_5795MHz**

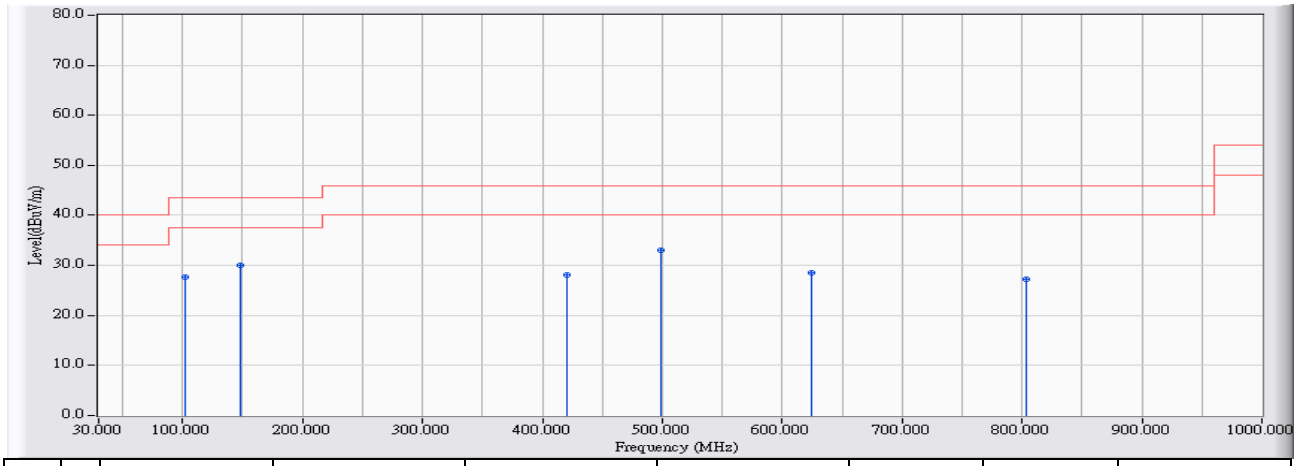


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	65.872	5.612	24.909	30.521	-9.479	40.000	QUASIPEAK
2		142.949	9.985	18.285	28.270	-15.230	43.500	QUASIPEAK
3		288.861	12.559	14.243	26.802	-19.198	46.000	QUASIPEAK
4		501.669	17.187	14.506	31.694	-14.306	46.000	QUASIPEAK
5		804.158	19.225	8.103	27.328	-18.672	46.000	QUASIPEAK
6		871.054	19.398	8.228	27.625	-18.375	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 23:46**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11ac80_5775MHz**

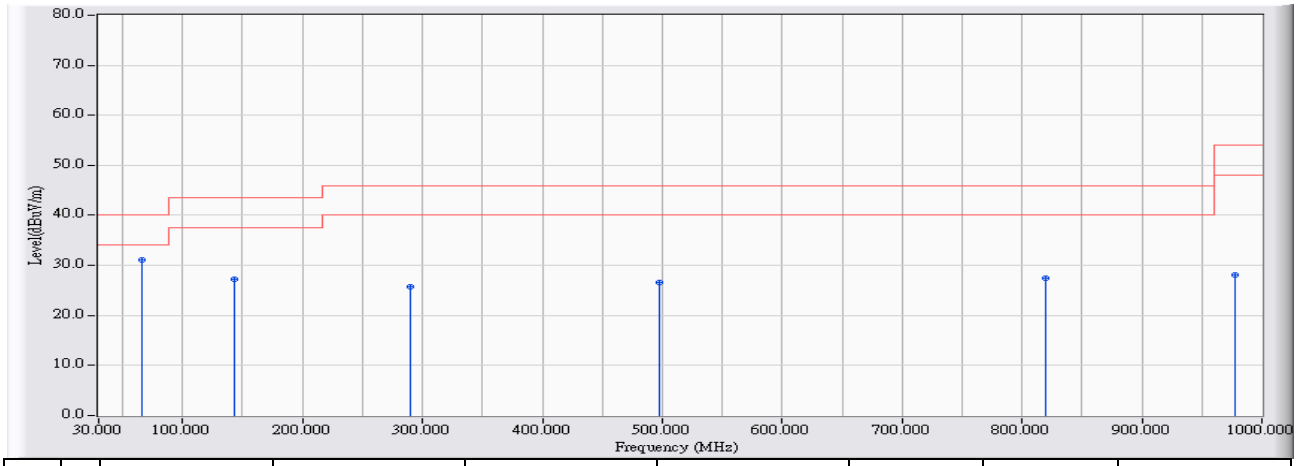


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		101.744	9.928	17.725	27.653	-15.847	43.500	QUASIPEAK
2		147.796	9.743	20.226	29.970	-13.530	43.500	QUASIPEAK
3		420.230	15.564	12.533	28.098	-17.902	46.000	QUASIPEAK
4	*	498.761	17.157	15.855	33.013	-12.987	46.000	QUASIPEAK
5		624.798	17.610	10.843	28.453	-17.547	46.000	QUASIPEAK
6		803.673	19.223	8.005	27.229	-18.771	46.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Site : CB1	**Time : 2015/05/18 - 21:47**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_EFS_30-1G-2_1011 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11ac80_5775MHz**



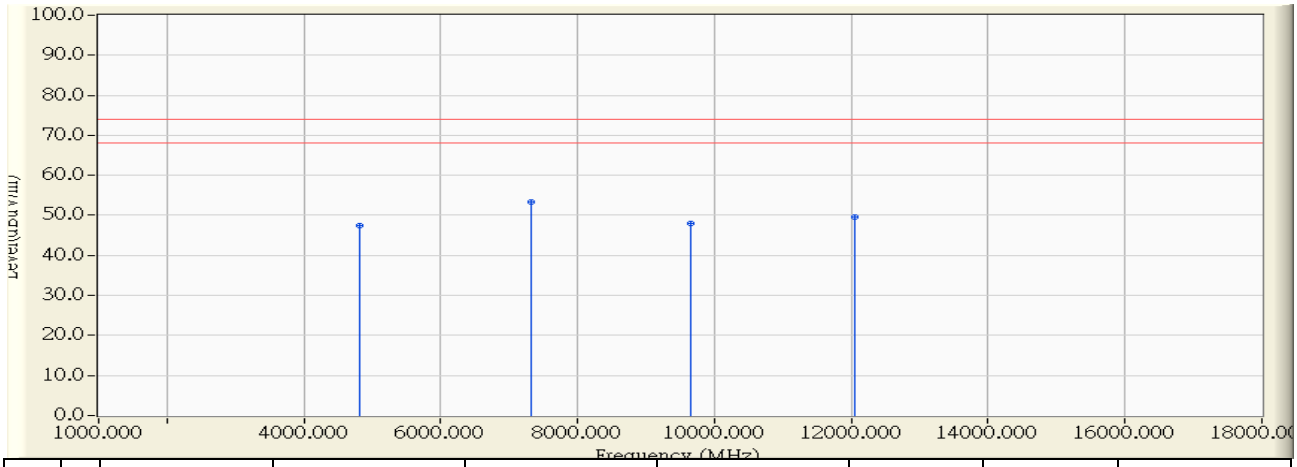
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	65.872	5.612	25.381	30.993	-9.007	40.000	QUASIPEAK
2		142.949	9.985	17.308	27.293	-16.207	43.500	QUASIPEAK
3		289.830	12.575	13.269	25.844	-20.156	46.000	QUASIPEAK
4		497.306	17.129	9.489	26.617	-19.383	46.000	QUASIPEAK
5		819.185	19.264	8.085	27.348	-18.652	46.000	QUASIPEAK
6		977.216	20.103	7.956	28.059	-25.941	54.000	QUASIPEAK

Note:

1. All Reading Levels are Quasi-Peak value.
2. " * ", means this data is the worst emission level.
3. Measurement Level = Reading Level + Correct Factor.

Above 1GHz Spurious

Site : CB1	**Time : 2015/05/11 - 11:24**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2412MHz**

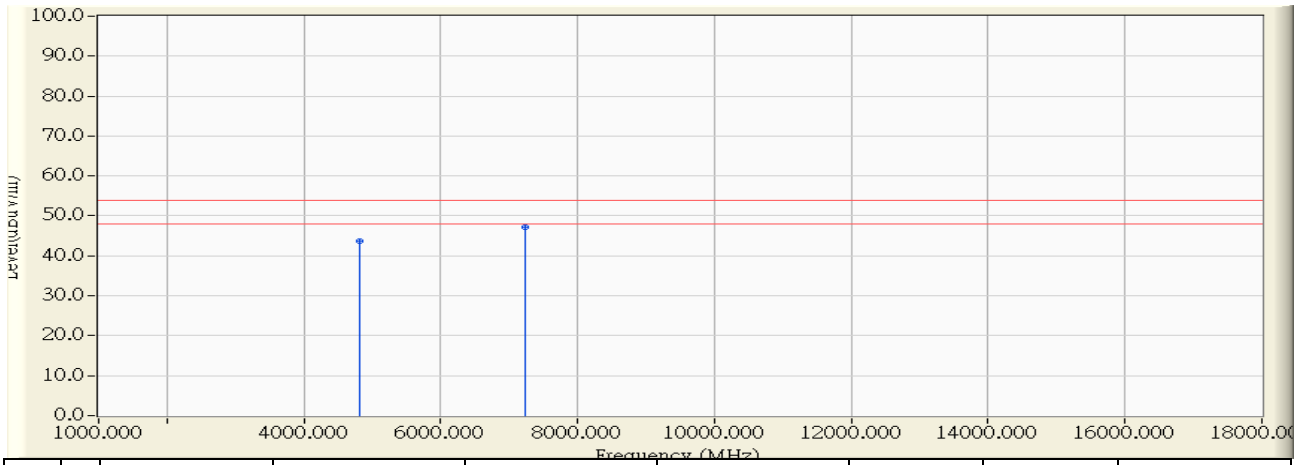


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.575	48.980	47.405	-26.595	74.000	PEAK
2	*	7311.000	7.144	46.080	53.224	-20.776	74.000	PEAK
3		9648.000	8.671	39.400	48.071	-25.929	74.000	PEAK
4		12060.000	11.570	38.120	49.689	-24.311	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:24**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2412MHz**

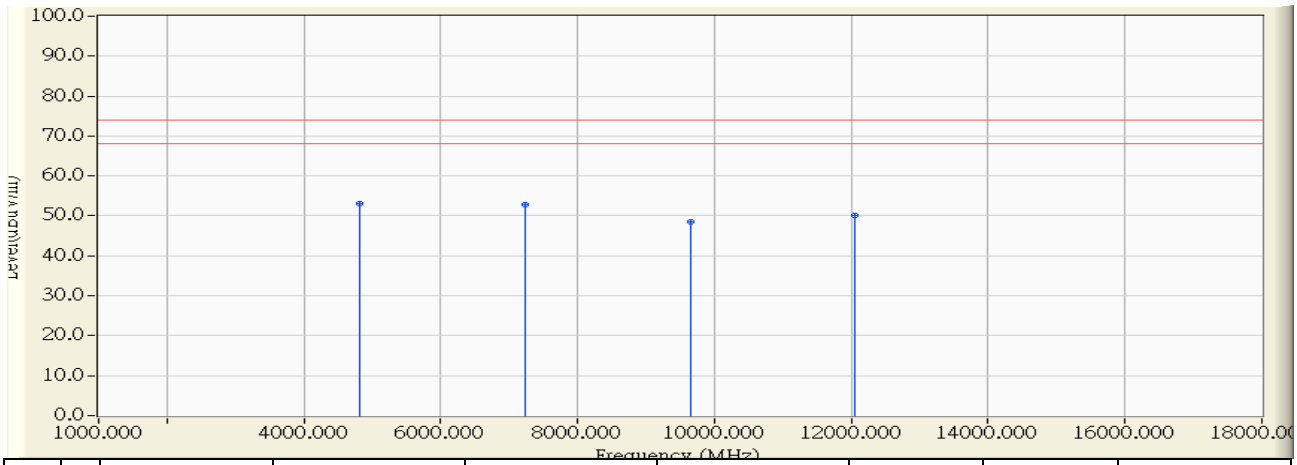


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.575	45.230	43.655	-10.345	54.000	AVERAGE
2	*	7236.000	6.982	40.170	47.152	-6.848	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:13**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2412MHz**

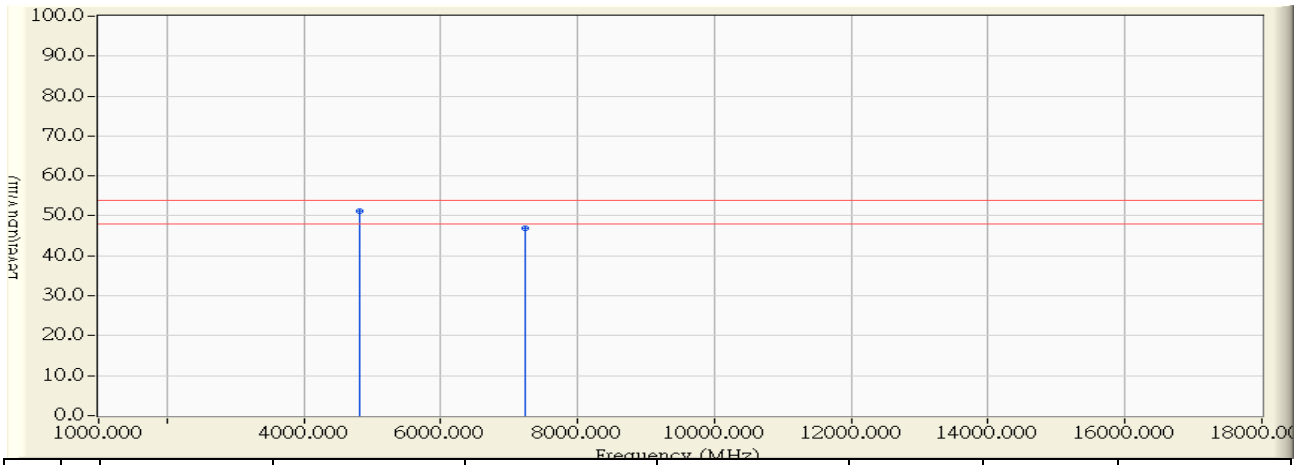


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.000	-0.678	53.750	53.072	-20.928	74.000	PEAK
2		7236.000	6.482	46.380	52.862	-21.138	74.000	PEAK
3		9648.000	8.174	40.430	48.603	-25.397	74.000	PEAK
4		12060.000	11.147	38.950	50.096	-23.904	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:14**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2412MHz**

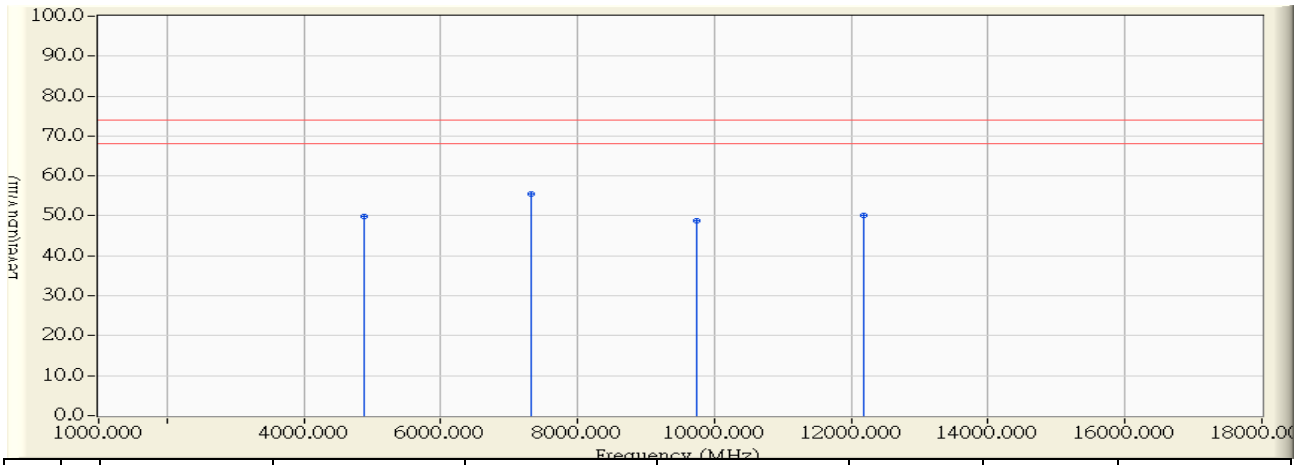


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4824.000	-0.678	51.850	51.172	-2.828	54.000	AVERAGE
2		7236.000	6.482	40.500	46.982	-7.018	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 10:37**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2437MHz**

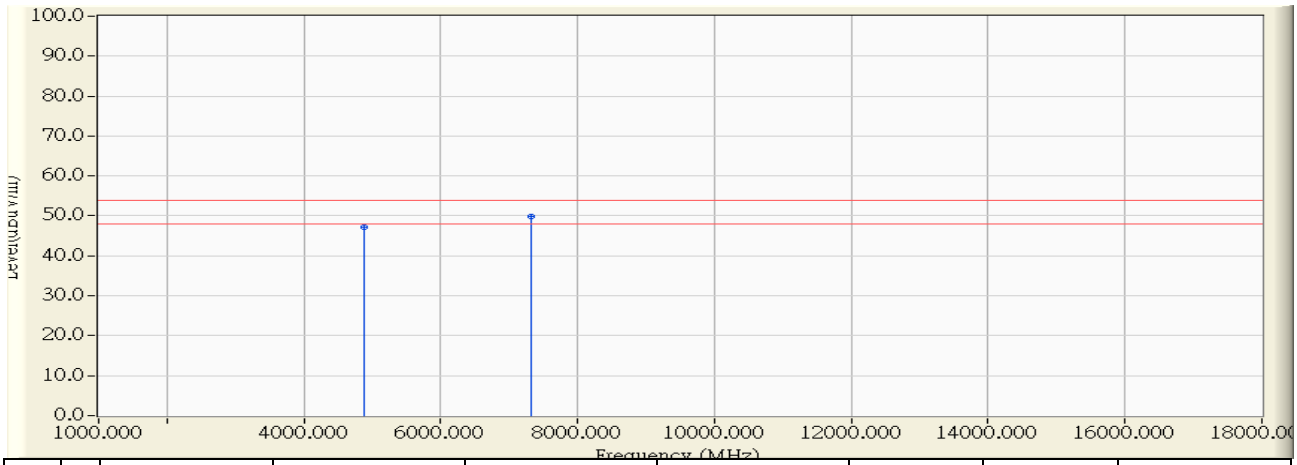


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.453	51.240	49.787	-24.213	74.000	PEAK
2	*	7311.000	7.144	48.240	55.384	-18.616	74.000	PEAK
3		9748.000	9.218	39.680	48.898	-25.102	74.000	PEAK
4		12185.000	11.450	38.740	50.190	-23.810	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 10:38**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2437MHz**

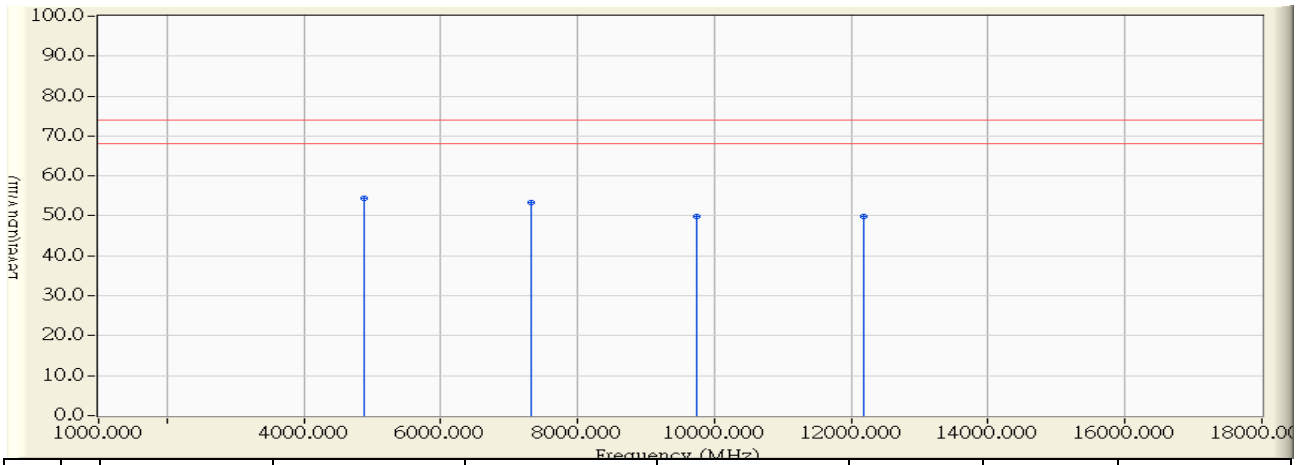


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.453	48.600	47.147	-6.853	54.000	AVERAGE
2	*	7311.000	7.144	42.650	49.794	-4.206	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 10:16**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2437MHz**

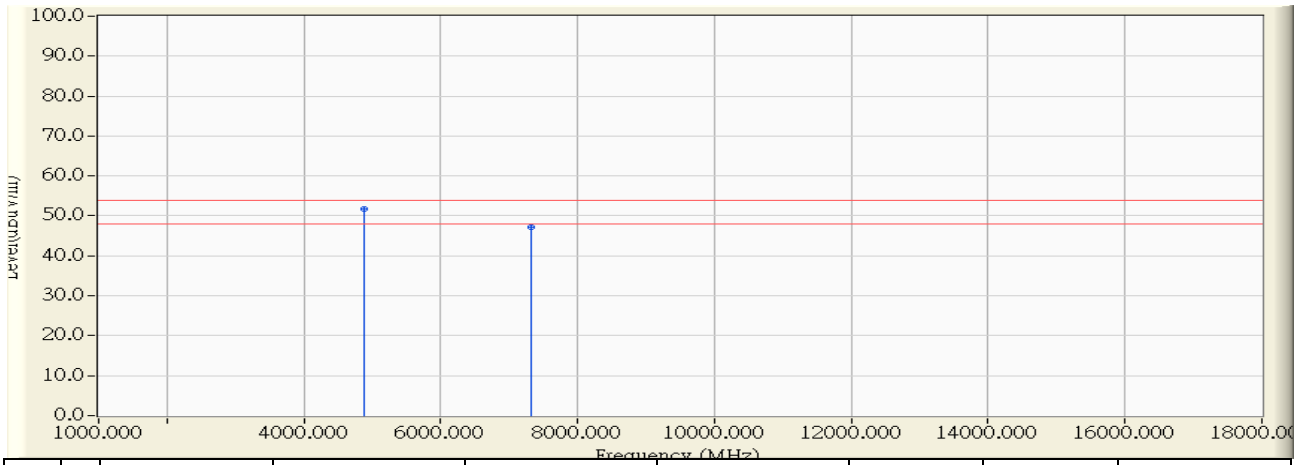


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	-0.681	55.160	54.479	-19.521	74.000	PEAK
2		7311.000	6.644	46.600	53.244	-20.756	74.000	PEAK
3		9748.000	8.570	41.240	49.811	-24.189	74.000	PEAK
4		12185.000	11.152	38.780	49.932	-24.068	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 10:22**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2437MHz**

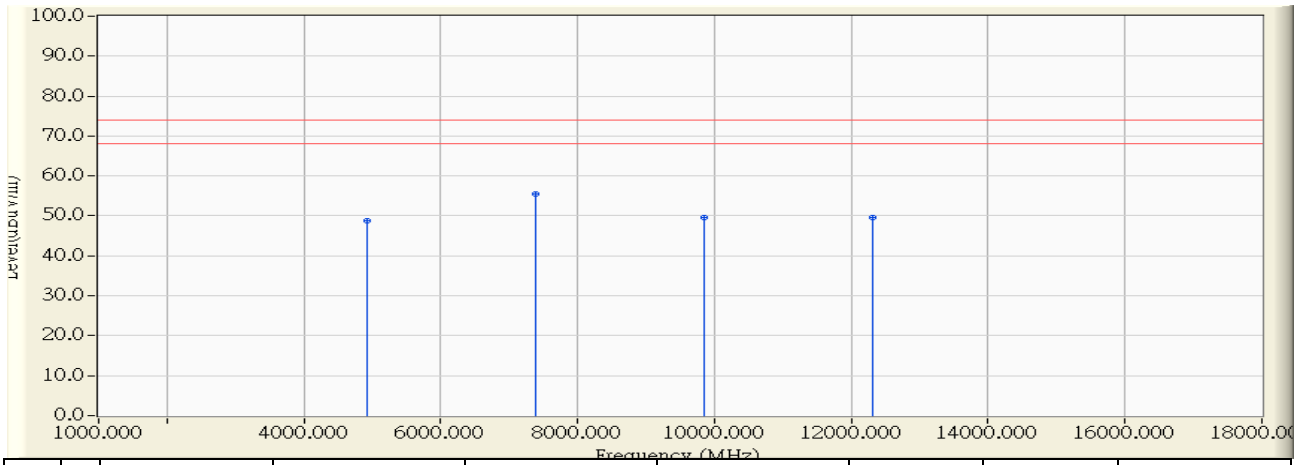


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.000	-0.681	52.440	51.759	-2.241	54.000	AVERAGE
2		7311.000	6.644	40.630	47.274	-6.726	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 10:49**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2462MHz**

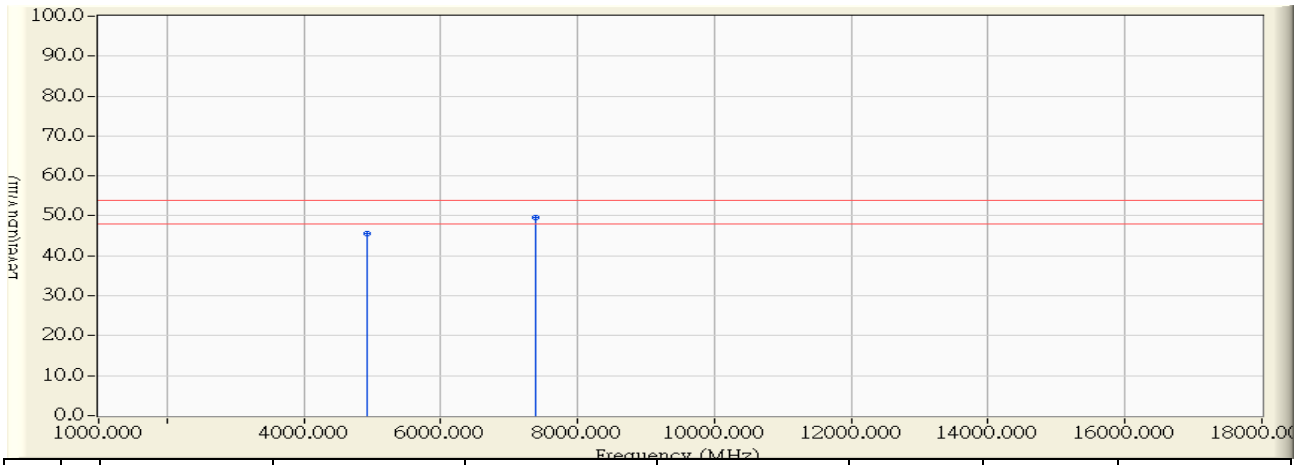


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.331	50.020	48.689	-25.311	74.000	PEAK
2	*	7386.000	7.306	48.060	55.367	-18.633	74.000	PEAK
3		9848.000	9.766	39.930	49.696	-24.304	74.000	PEAK
4		12310.000	11.331	38.260	49.590	-24.410	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 10:50**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2462MHz**

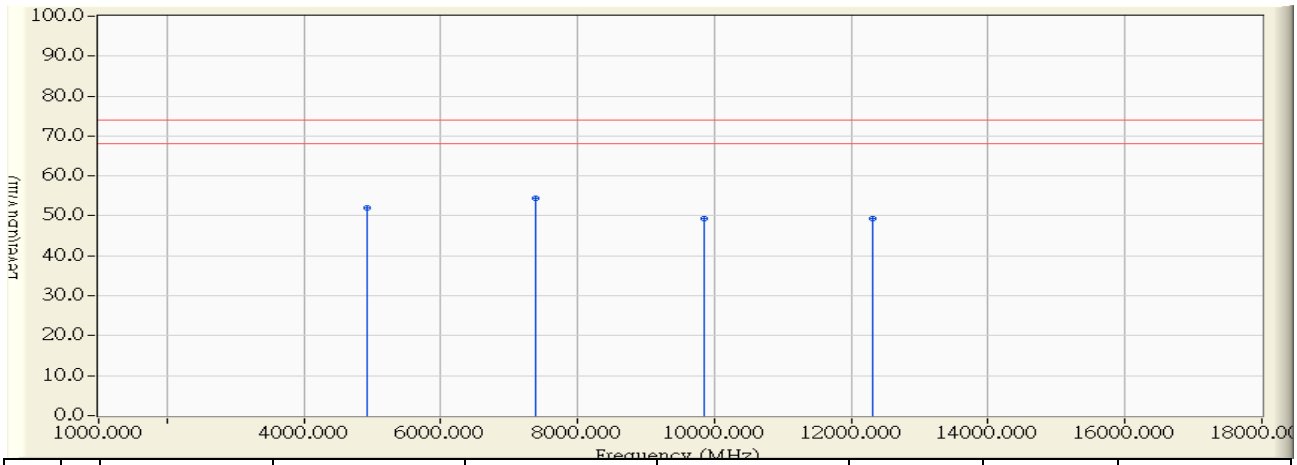


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.331	47.020	45.689	-8.311	54.000	AVERAGE
2	*	7386.000	7.306	42.210	49.517	-4.483	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:03**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2462MHz**

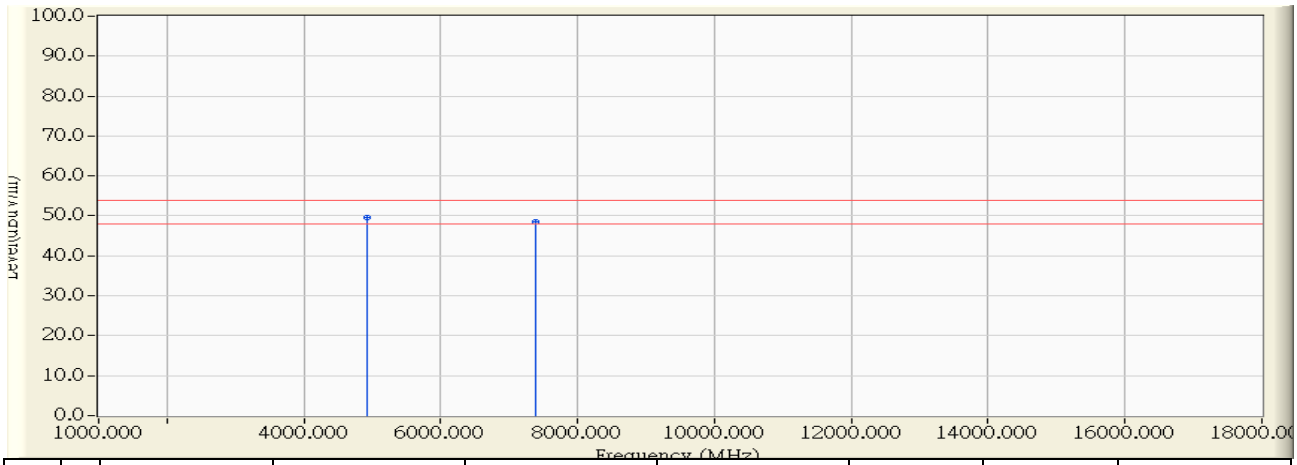


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-0.684	52.710	52.026	-21.974	74.000	PEAK
2	*	7386.000	6.806	47.640	54.447	-19.553	74.000	PEAK
3		9848.000	8.968	40.230	49.198	-24.802	74.000	PEAK
4		12310.000	11.158	38.120	49.277	-24.723	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:04**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11b 2462MHz**

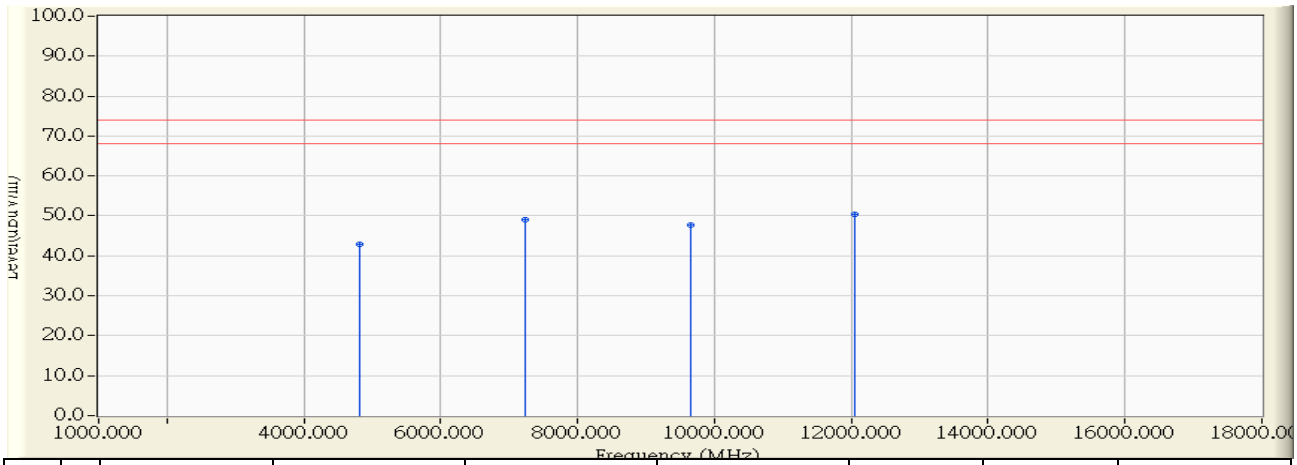


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4924.000	-0.684	50.200	49.516	-4.484	54.000	AVERAGE
2		7386.000	6.806	41.820	48.627	-5.373	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 09:53**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g 2412MHz**

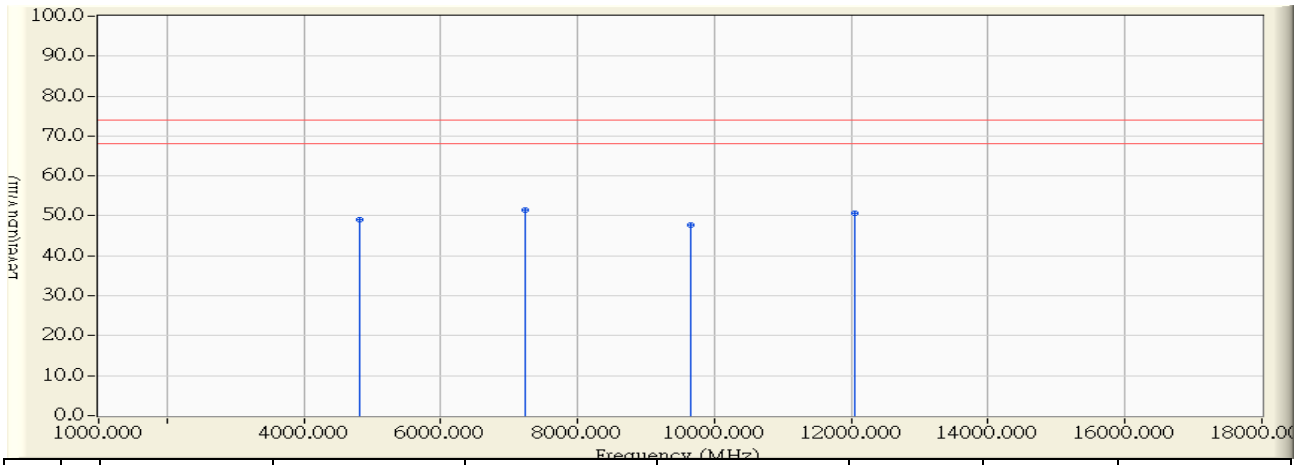


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.575	44.470	42.895	-31.105	74.000	PEAK
2		7236.000	6.982	41.970	48.952	-25.048	74.000	PEAK
3		9648.000	8.671	39.060	47.731	-26.269	74.000	PEAK
4	*	12060.000	11.570	38.740	50.309	-23.691	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 09:44**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g 2412MHz**

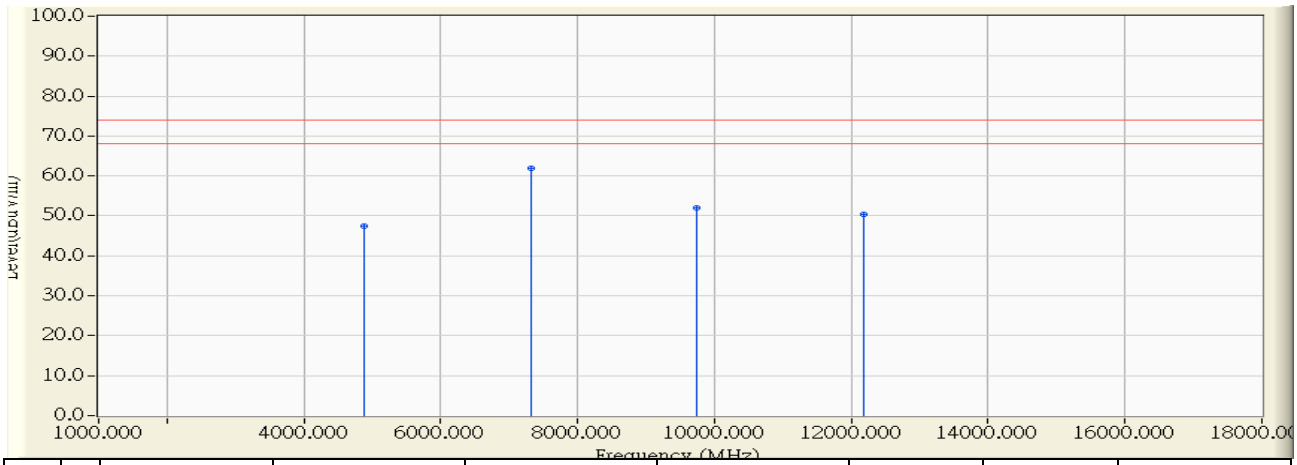


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-0.678	49.680	49.002	-24.998	74.000	PEAK
2	*	7236.000	6.482	44.900	51.382	-22.618	74.000	PEAK
3		9648.000	8.174	39.670	47.843	-26.157	74.000	PEAK
4		12060.000	11.147	39.460	50.606	-23.394	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:48**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g 2437MHz**

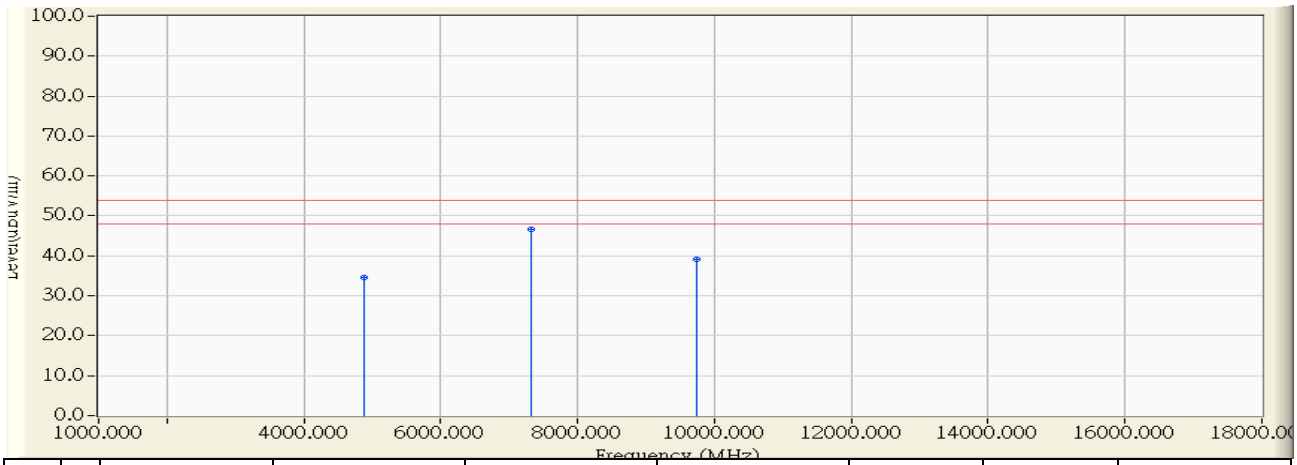


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.453	48.920	47.467	-26.533	74.000	PEAK
2	*	7311.000	7.144	54.660	61.804	-12.196	74.000	PEAK
3		9748.000	9.218	42.760	51.978	-22.022	74.000	PEAK
4		12185.000	11.450	39.040	50.490	-23.510	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:49**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g 2437MHz**

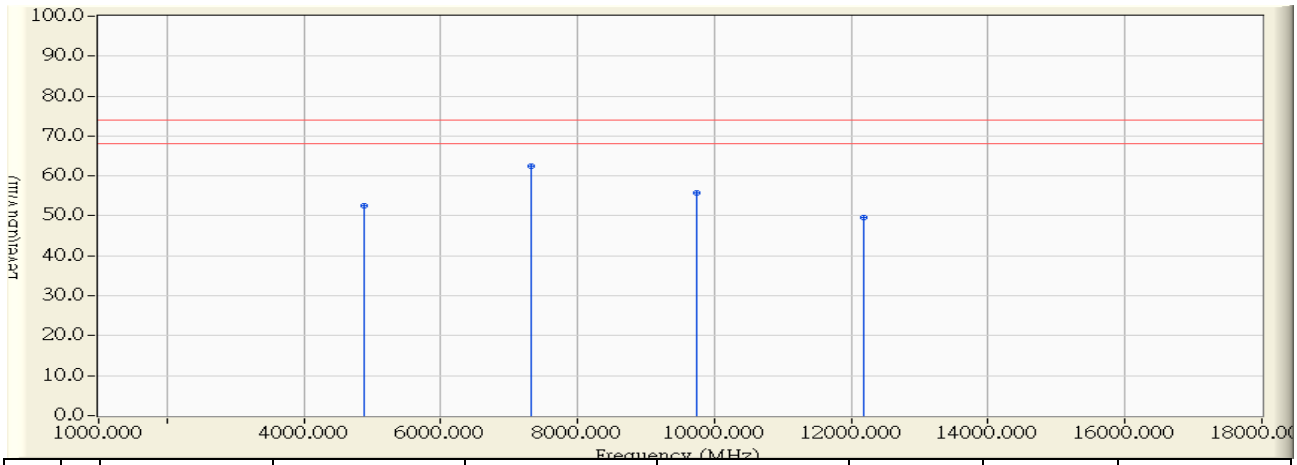


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.453	36.070	34.617	-19.383	54.000	AVERAGE
2	*	7311.000	7.144	39.490	46.634	-7.366	54.000	AVERAGE
3		9748.000	9.218	29.800	39.018	-14.982	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:40**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g 2437MHz**

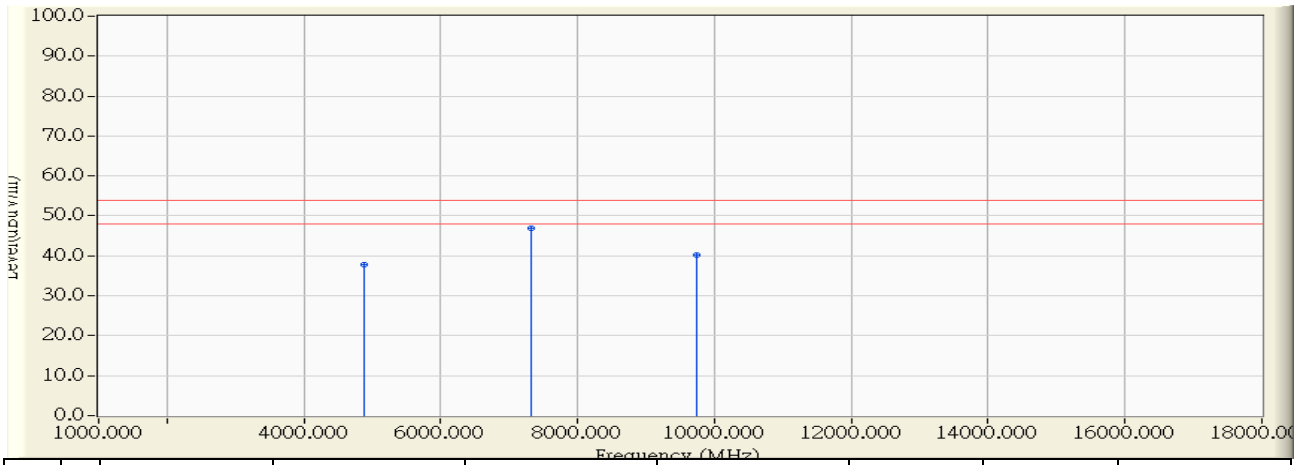


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.681	53.240	52.559	-21.441	74.000	PEAK
2	*	7311.000	6.644	55.830	62.474	-11.526	74.000	PEAK
3		9748.000	8.570	47.060	55.631	-18.369	74.000	PEAK
4		12185.000	11.152	38.350	49.502	-24.498	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/11 - 11:41**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g 2437MHz**

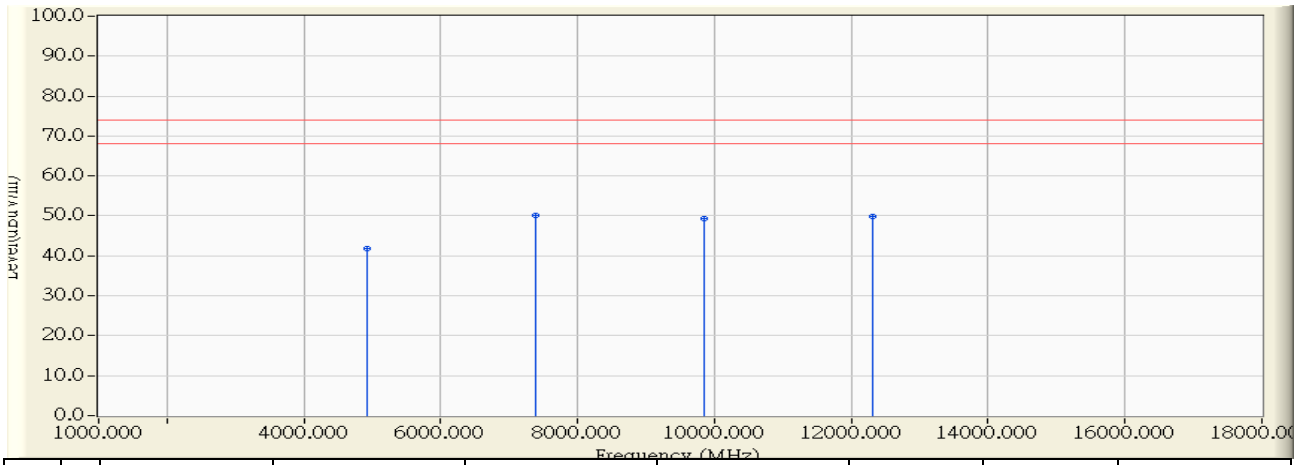


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.681	38.510	37.829	-16.171	54.000	AVERAGE
2	*	7311.000	6.644	40.360	47.004	-6.996	54.000	AVERAGE
3		9748.000	8.570	31.540	40.111	-13.889	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:03**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g 2462MHz**

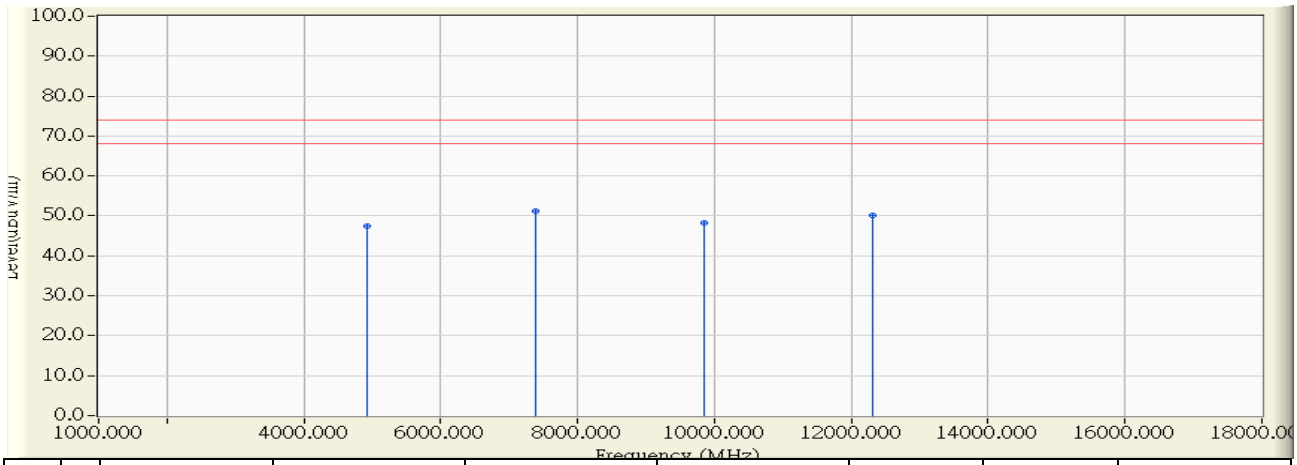


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.331	43.070	41.739	-32.261	74.000	PEAK
2	*	7386.000	7.306	42.790	50.097	-23.903	74.000	PEAK
3		9848.000	9.766	39.530	49.296	-24.704	74.000	PEAK
4		12310.000	11.331	38.580	49.910	-24.090	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. “ * ”, means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:10**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11g 2462MHz**

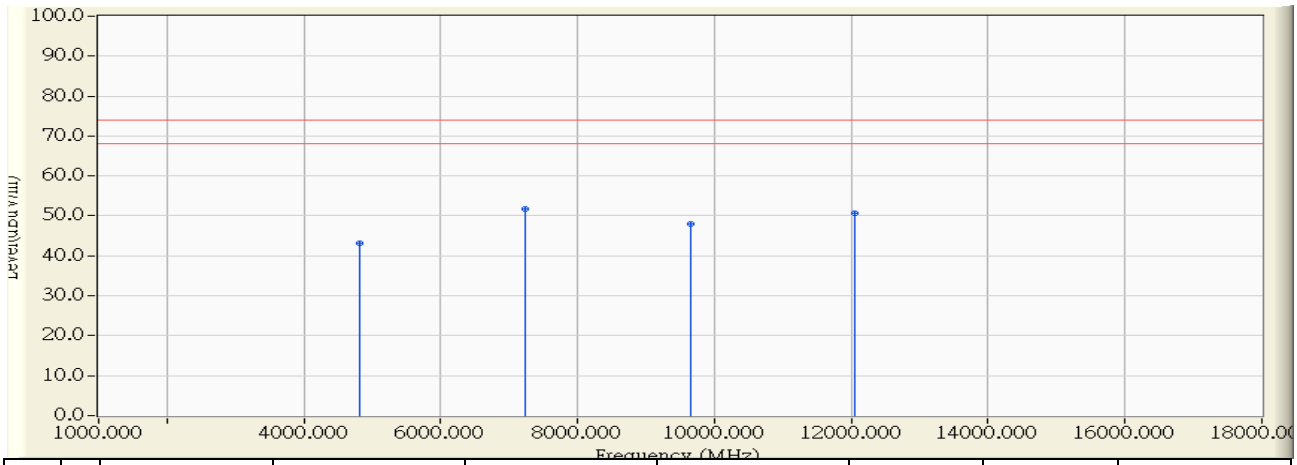


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-0.684	48.060	47.376	-26.624	74.000	PEAK
2	*	7386.000	6.806	44.530	51.337	-22.663	74.000	PEAK
3		9848.000	8.968	39.340	48.308	-25.692	74.000	PEAK
4		12310.000	11.158	39.020	50.177	-23.823	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:42**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2412MHz**

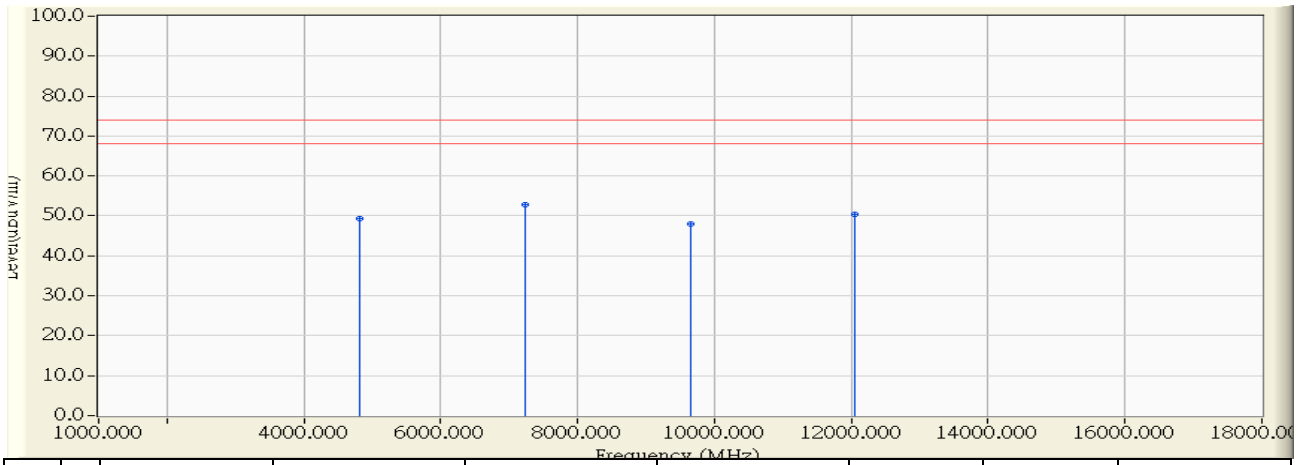


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.575	44.720	43.145	-30.855	74.000	PEAK
2	*	7236.000	6.982	44.810	51.792	-22.208	74.000	PEAK
3		9648.000	8.671	39.380	48.051	-25.949	74.000	PEAK
4		12060.000	11.570	39.060	50.629	-23.371	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:50**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2412MHz**

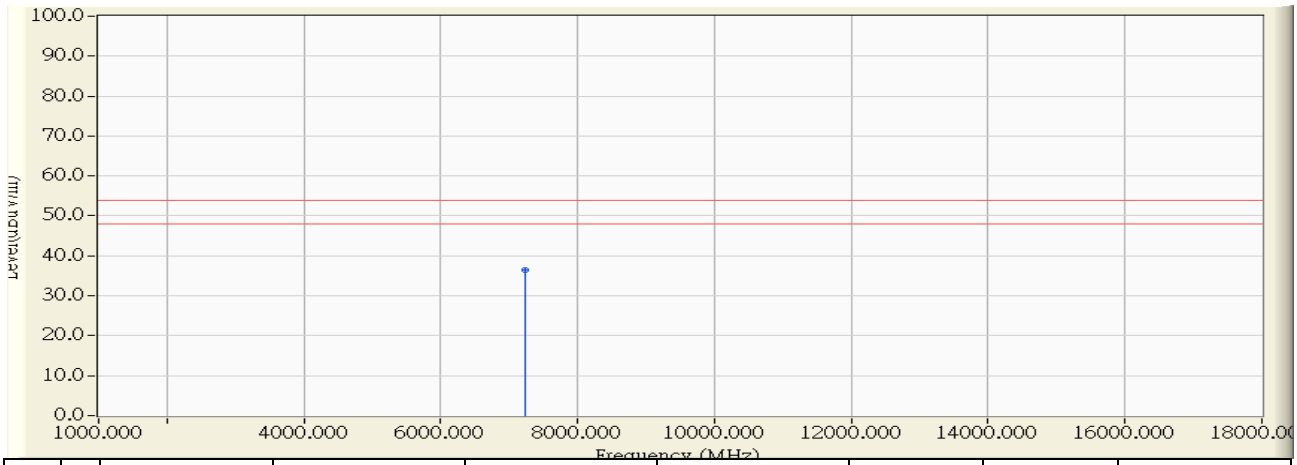


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-0.678	50.100	49.422	-24.578	74.000	PEAK
2	*	7236.000	6.482	46.330	52.812	-21.188	74.000	PEAK
3		9648.000	8.174	39.820	47.993	-26.007	74.000	PEAK
4		12060.000	11.147	39.180	50.326	-23.674	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:51**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2412MHz**

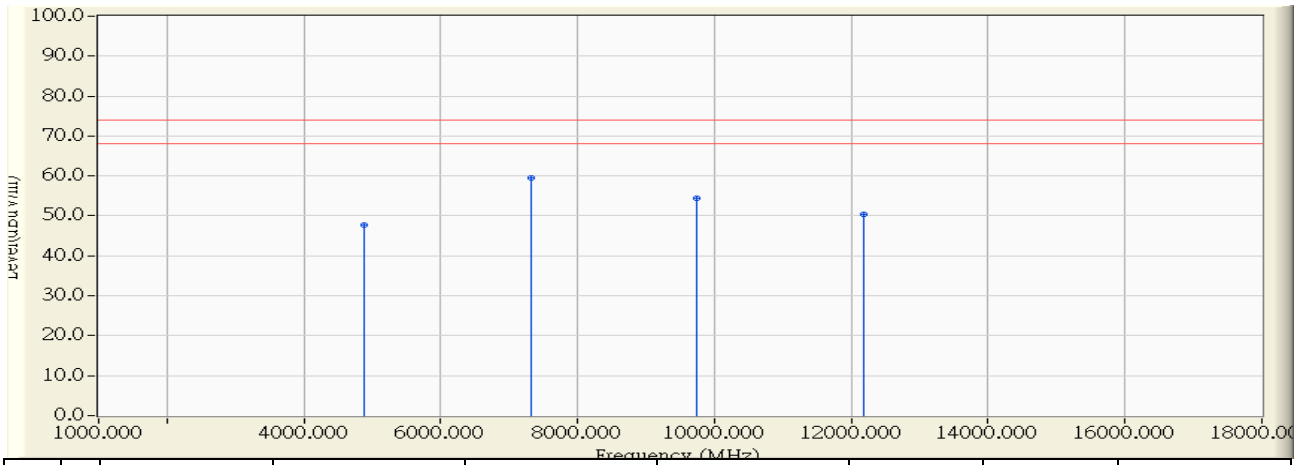


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7236.000	6.482	29.850	36.332	-17.668	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:32**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2437MHz**

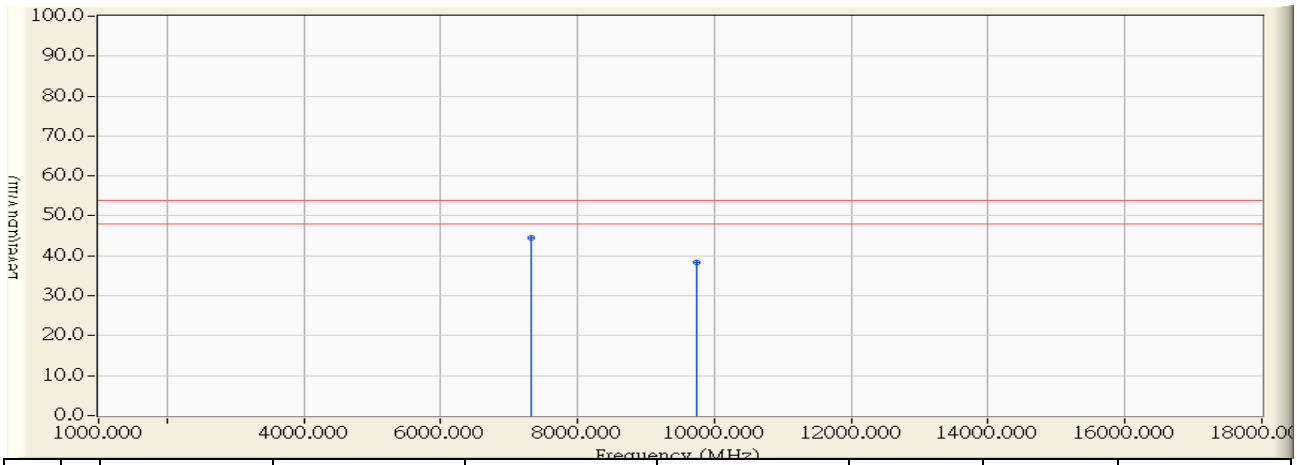


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.453	49.100	47.647	-26.353	74.000	PEAK
2	*	7311.000	7.144	52.270	59.414	-14.586	74.000	PEAK
3		9748.000	9.218	45.220	54.438	-19.562	74.000	PEAK
4		12185.000	11.450	39.010	50.460	-23.540	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:33**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2437MHz**

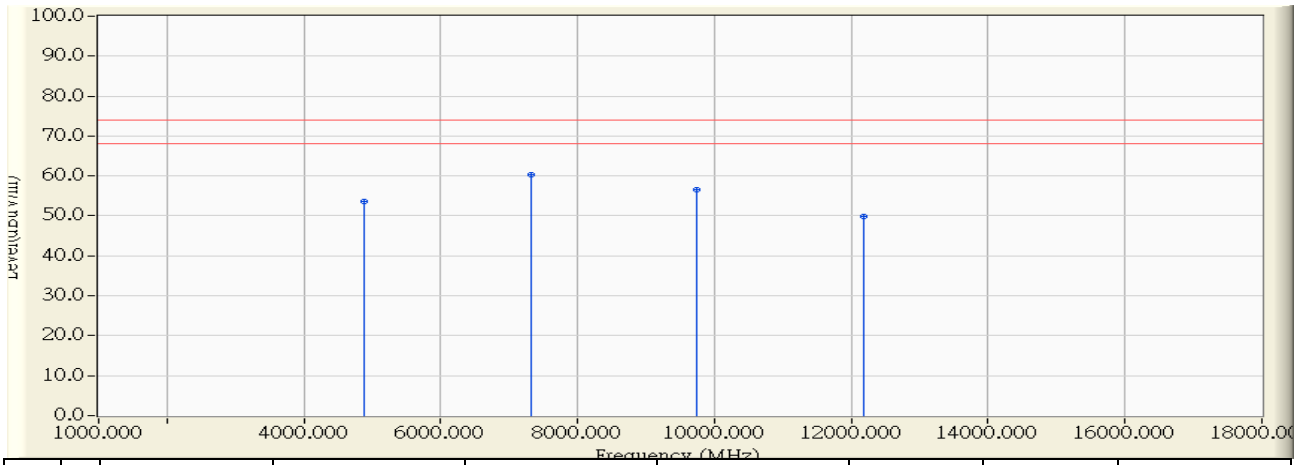


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	7311.000	7.144	37.430	44.574	-9.426	54.000	AVERAGE
2		9748.000	9.218	29.210	38.428	-15.572	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:20**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2437MHz**

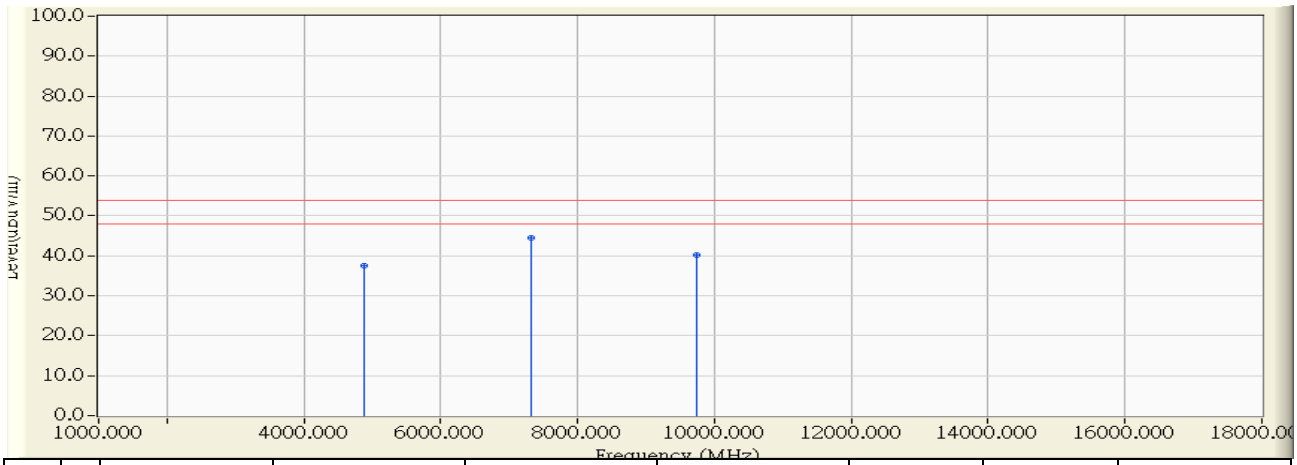


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.681	54.220	53.539	-20.461	74.000	PEAK
2	*	7311.000	6.644	53.710	60.354	-13.646	74.000	PEAK
3		9748.000	8.570	48.100	56.671	-17.329	74.000	PEAK
4		12185.000	11.152	38.750	49.902	-24.098	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:22**
Limit : FCC_SpartC_15.247_H_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2437MHz**

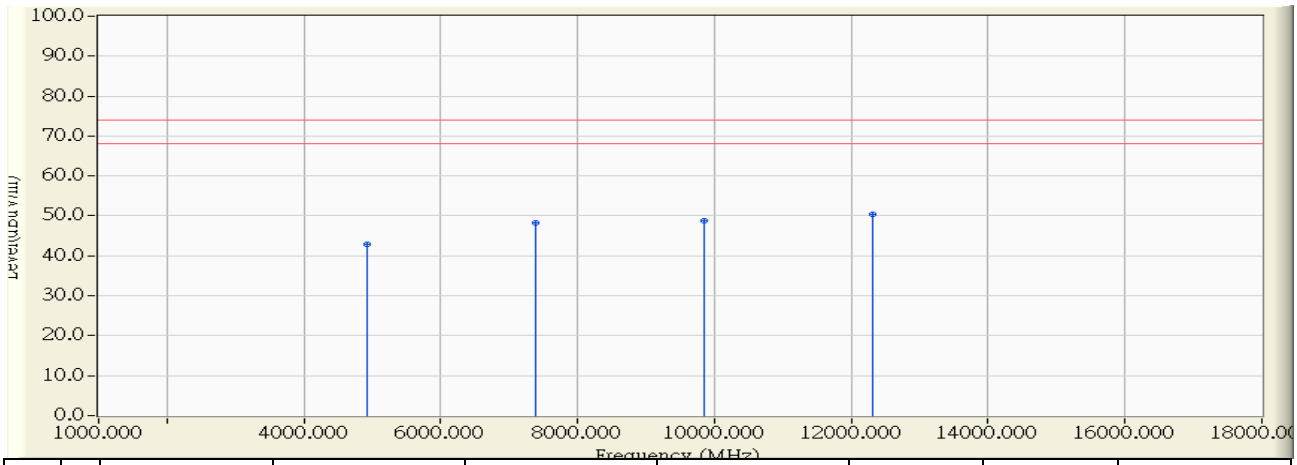


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.681	38.210	37.529	-16.471	54.000	AVERAGE
2	*	7311.000	6.644	37.830	44.474	-9.526	54.000	AVERAGE
3		9748.000	8.570	31.530	40.101	-13.899	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 11:06**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2462MHz**

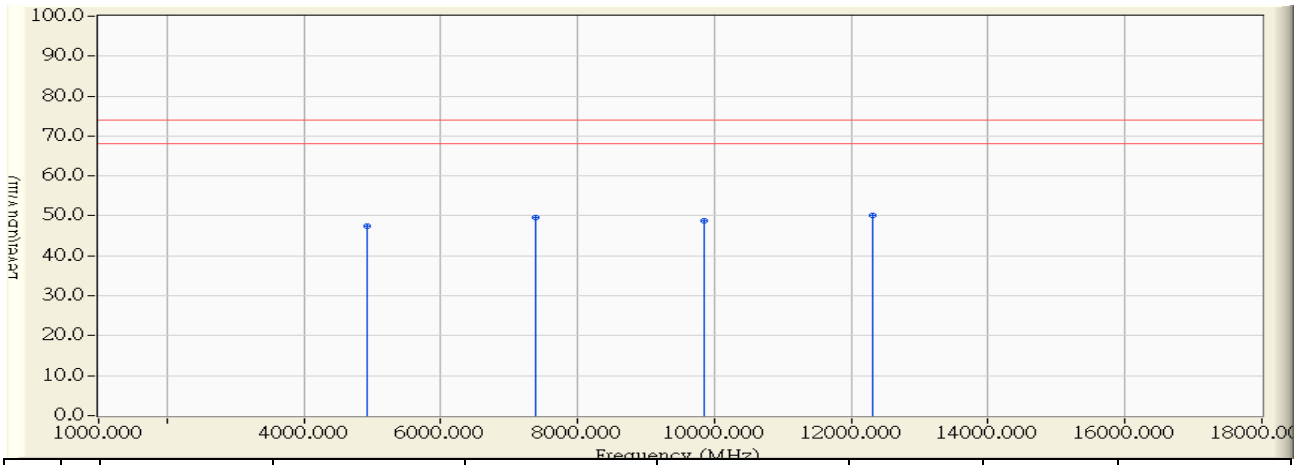


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.331	44.160	42.829	-31.171	74.000	PEAK
2		7386.000	7.306	40.920	48.227	-25.773	74.000	PEAK
3		9848.000	9.766	39.090	48.856	-25.144	74.000	PEAK
4	*	12310.000	11.331	38.950	50.280	-23.720	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 10:57**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n20 2462MHz**

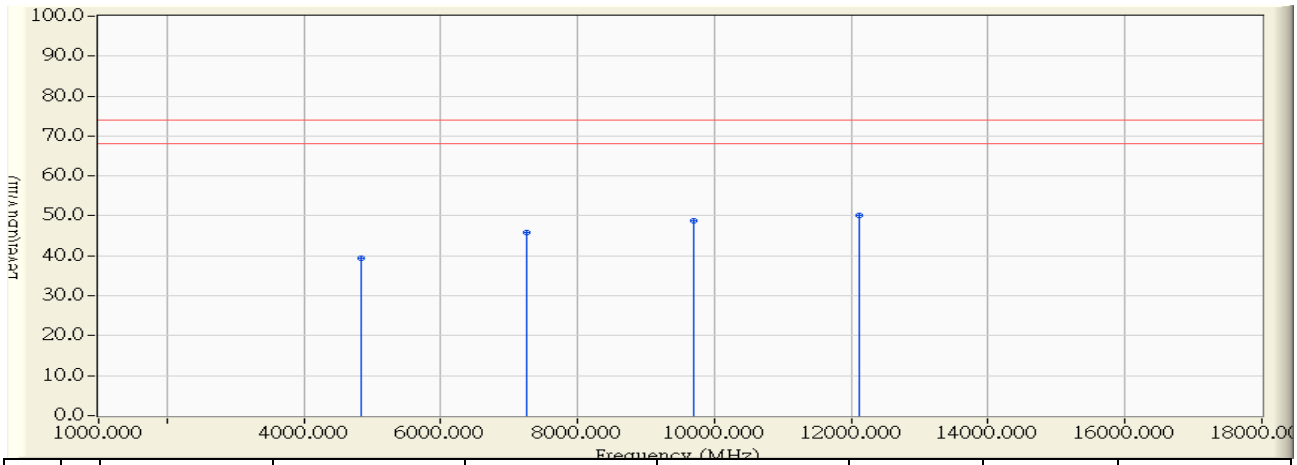


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-0.684	48.020	47.336	-26.664	74.000	PEAK
2		7386.000	6.806	42.900	49.707	-24.293	74.000	PEAK
3		9848.000	8.968	39.840	48.808	-25.192	74.000	PEAK
4	*	12310.000	11.158	38.950	50.107	-23.893	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 11:37**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40 2422MHz**

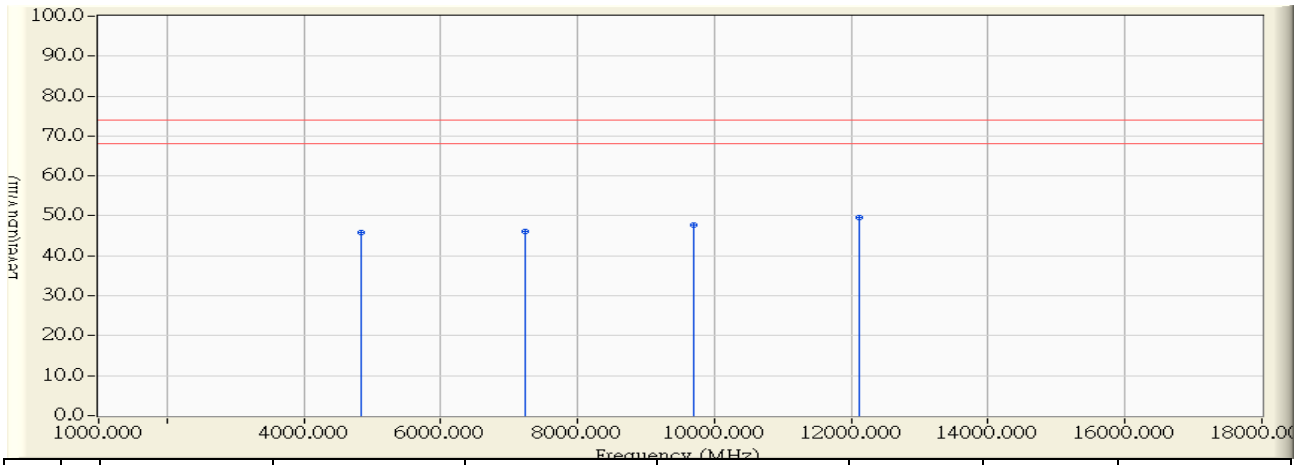


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-1.526	40.930	39.404	-34.596	74.000	PEAK
2		7266.000	7.047	38.880	45.927	-28.073	74.000	PEAK
3		9688.000	8.890	39.960	48.850	-25.150	74.000	PEAK
4	*	12110.000	11.522	38.550	50.071	-23.929	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 11:33**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40 2422MHz**

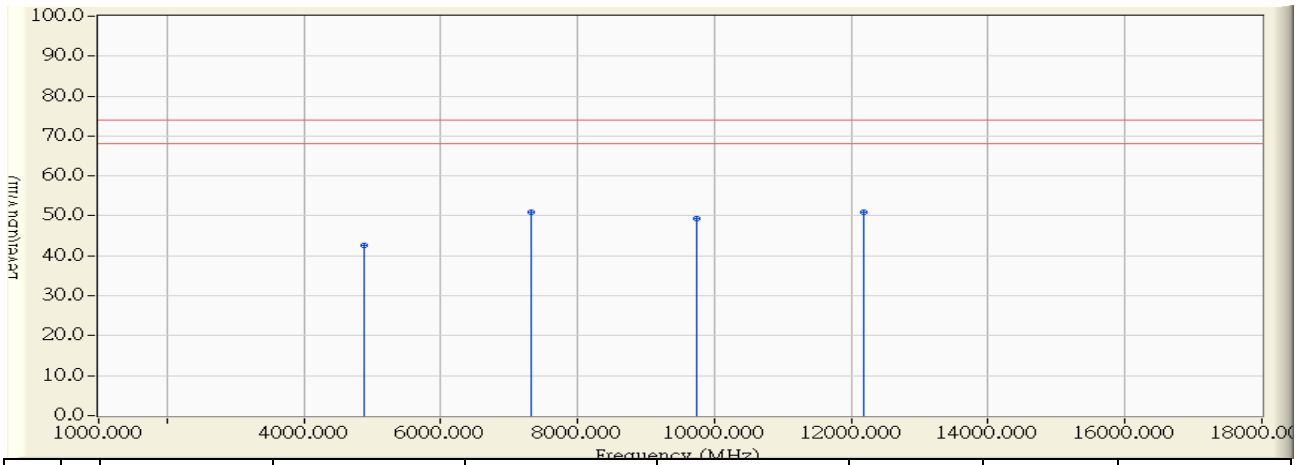


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-0.679	46.440	45.761	-28.239	74.000	PEAK
2		7236.000	6.482	39.500	45.982	-28.018	74.000	PEAK
3		9688.000	8.332	39.500	47.832	-26.168	74.000	PEAK
4	*	12110.000	11.149	38.420	49.568	-24.432	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 11:21**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40 2437MHz**

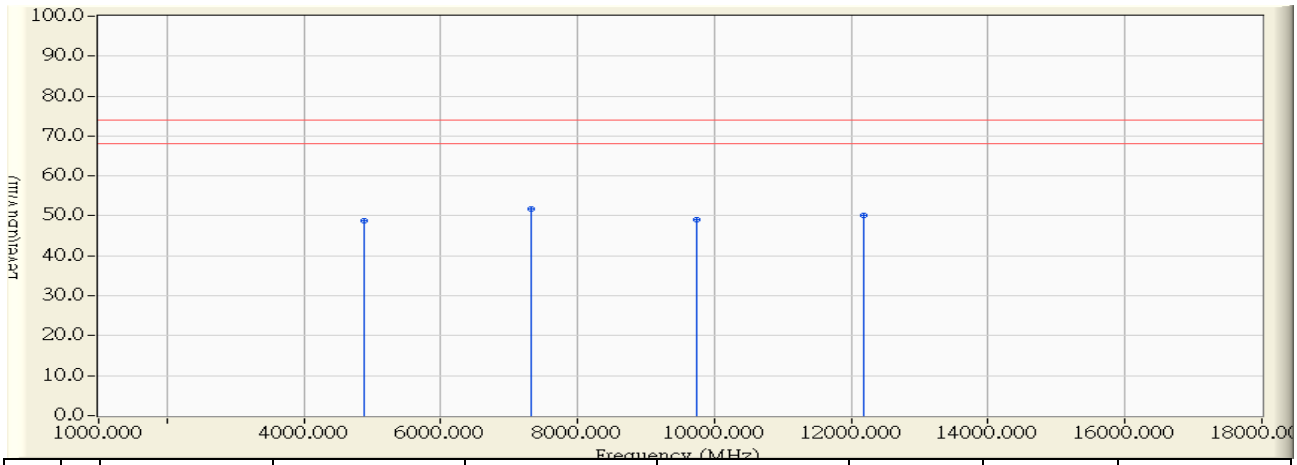


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.453	44.120	42.667	-31.333	74.000	PEAK
2	*	7311.000	7.144	43.830	50.974	-23.026	74.000	PEAK
3		9748.000	9.218	40.100	49.318	-24.682	74.000	PEAK
4		12185.000	11.450	39.410	50.860	-23.140	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 11:27**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40 2437MHz**

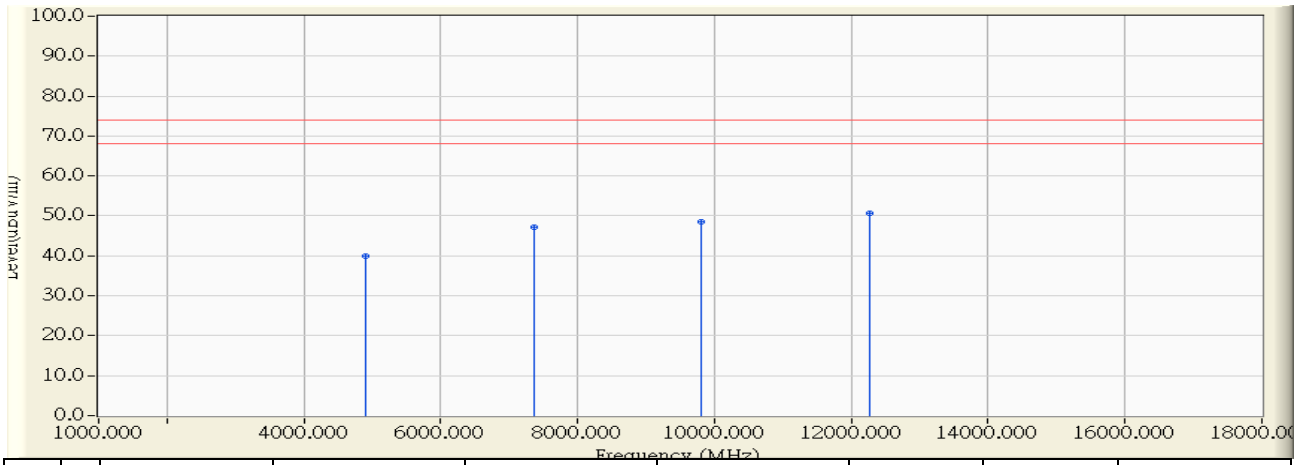


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-0.681	49.360	48.679	-25.321	74.000	PEAK
2	*	7311.000	6.644	45.210	51.854	-22.146	74.000	PEAK
3		9748.000	8.570	40.530	49.101	-24.899	74.000	PEAK
4		12185.000	11.152	39.000	50.152	-23.848	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 11:39**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40 2452MHz**

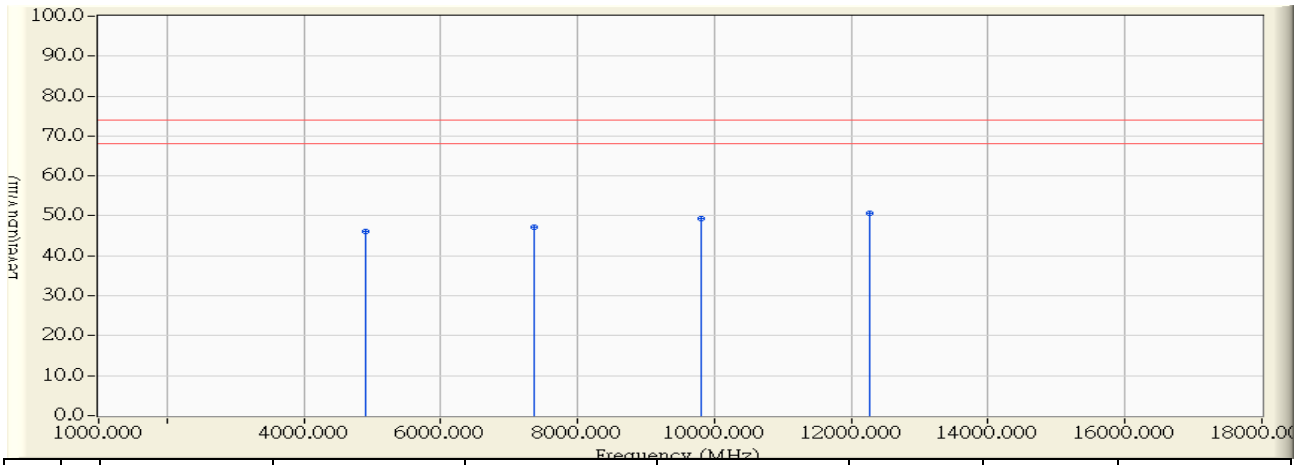


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-1.380	41.420	40.040	-33.960	74.000	PEAK
2		7356.000	7.241	39.850	47.092	-26.908	74.000	PEAK
3		9808.000	9.547	38.960	48.507	-25.493	74.000	PEAK
4	*	12260.000	11.379	39.260	50.638	-23.362	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/14 - 11:44**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n40 2452MHz**

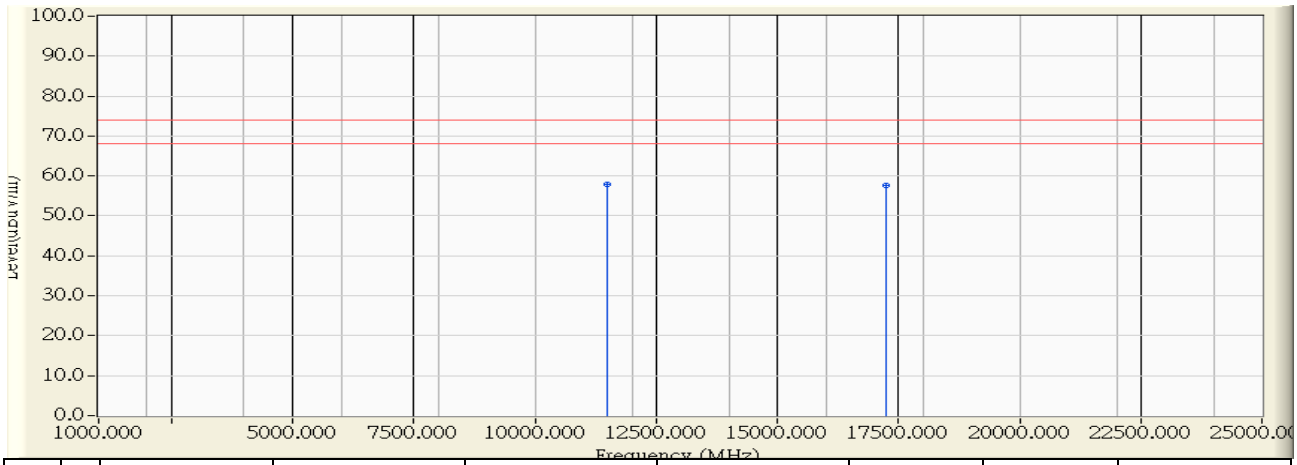


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-0.683	46.720	46.037	-27.963	74.000	PEAK
2		7356.000	6.741	40.530	47.272	-26.728	74.000	PEAK
3		9808.000	8.809	40.500	49.309	-24.691	74.000	PEAK
4	*	12260.000	11.156	39.520	50.675	-23.325	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 10:49**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5745MHz**

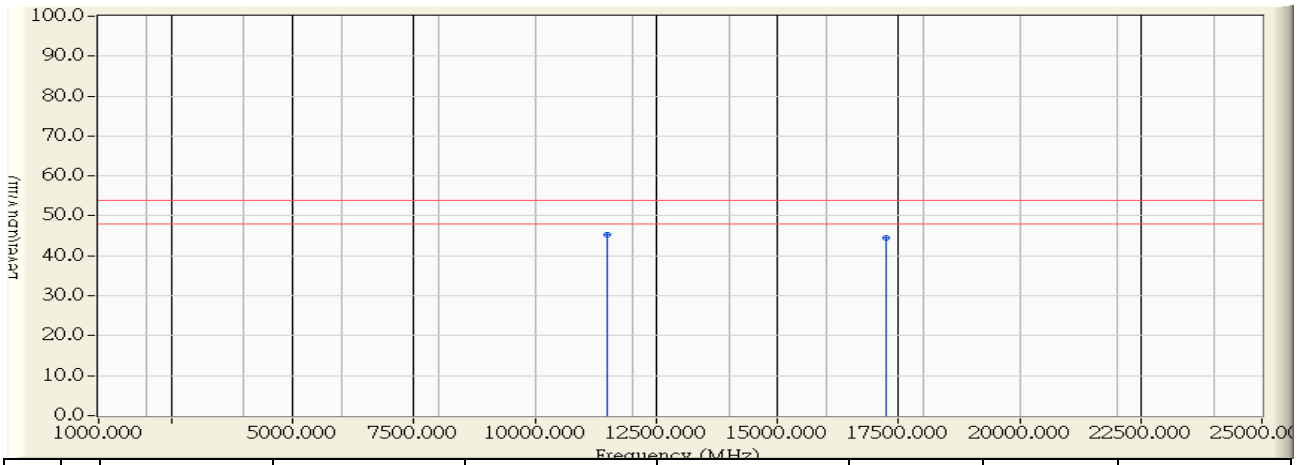


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	12.273	45.530	57.802	-16.198	74.000	PEAK
2		17235.000	15.500	42.230	57.730	-16.270	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 10:51**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5745MHz**

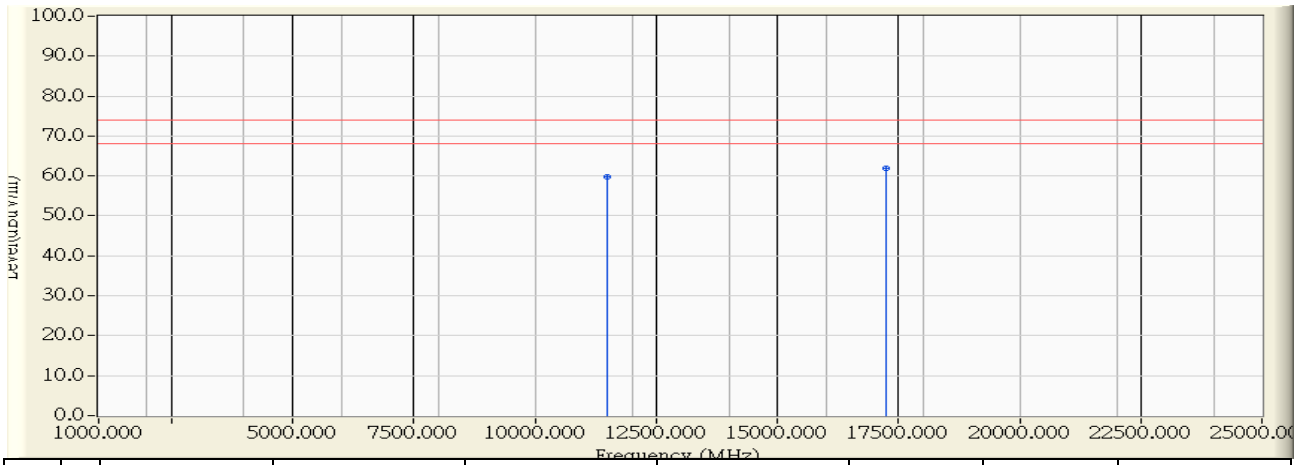


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	12.273	32.980	45.252	-8.748	54.000	AVERAGE
2		17235.000	15.500	28.990	44.490	-9.510	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 10:42**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5745MHz**

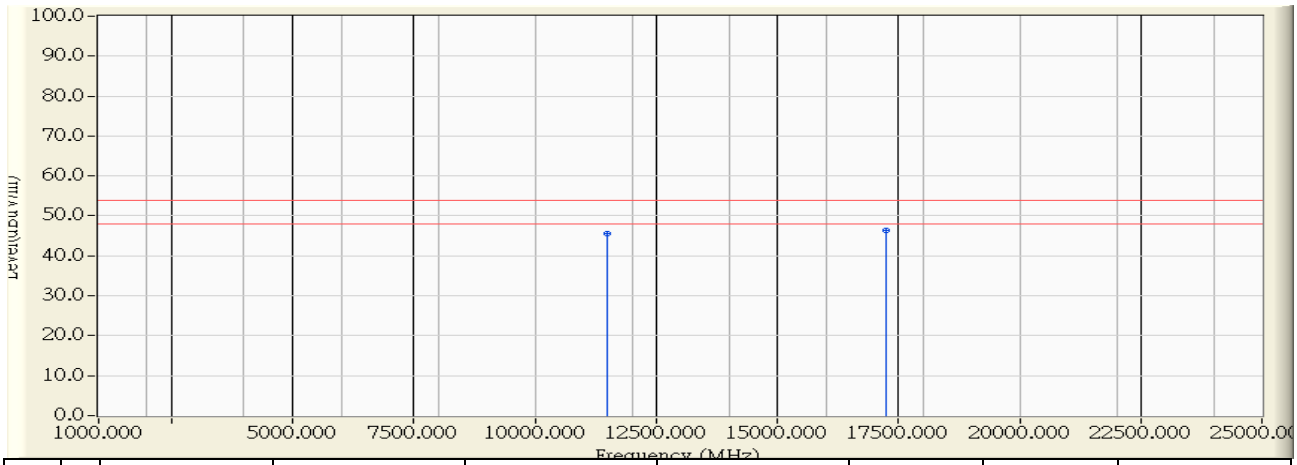


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11490.000	12.019	47.750	59.769	-14.231	74.000	PEAK
2	*	17235.000	15.500	46.470	61.970	-12.030	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 10:43**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5745MHz**

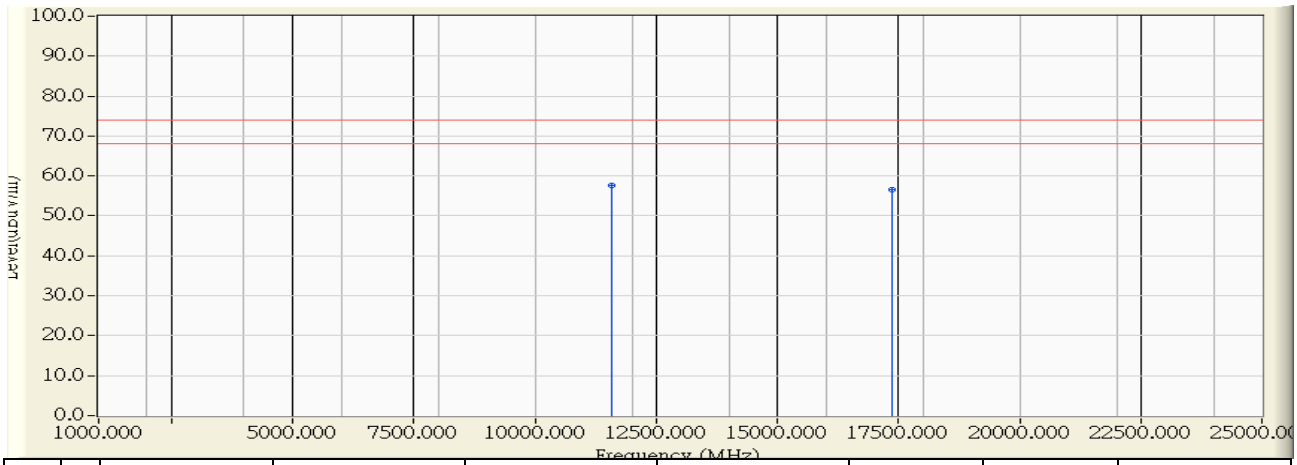


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11490.000	12.019	33.690	45.709	-8.291	54.000	AVERAGE
2	*	17235.000	15.500	30.810	46.310	-7.690	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 10:59**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5785MHz**

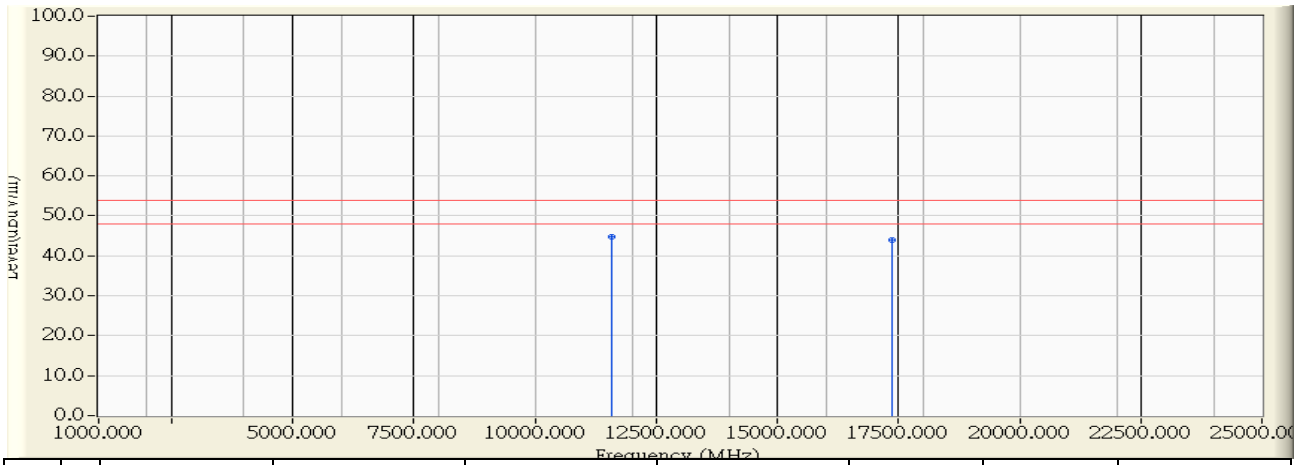


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	12.170	45.430	57.600	-16.400	74.000	PEAK
2		17355.000	16.052	40.440	56.492	-17.508	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 10:56**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5785MHz**

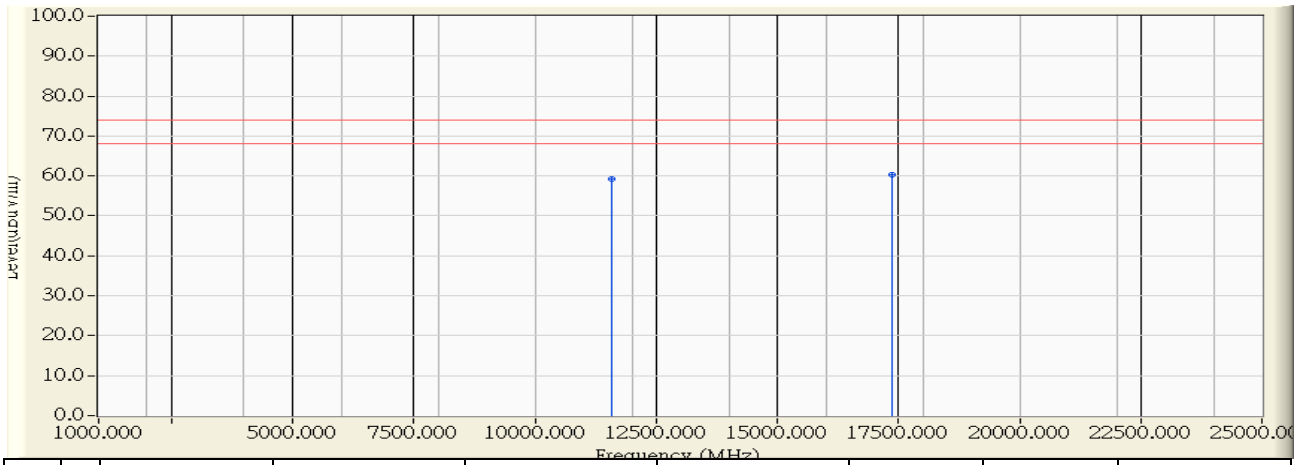


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	12.170	32.660	44.830	-9.170	54.000	AVERAGE
2		17355.000	16.052	27.880	43.932	-10.068	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:06**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5785MHz**

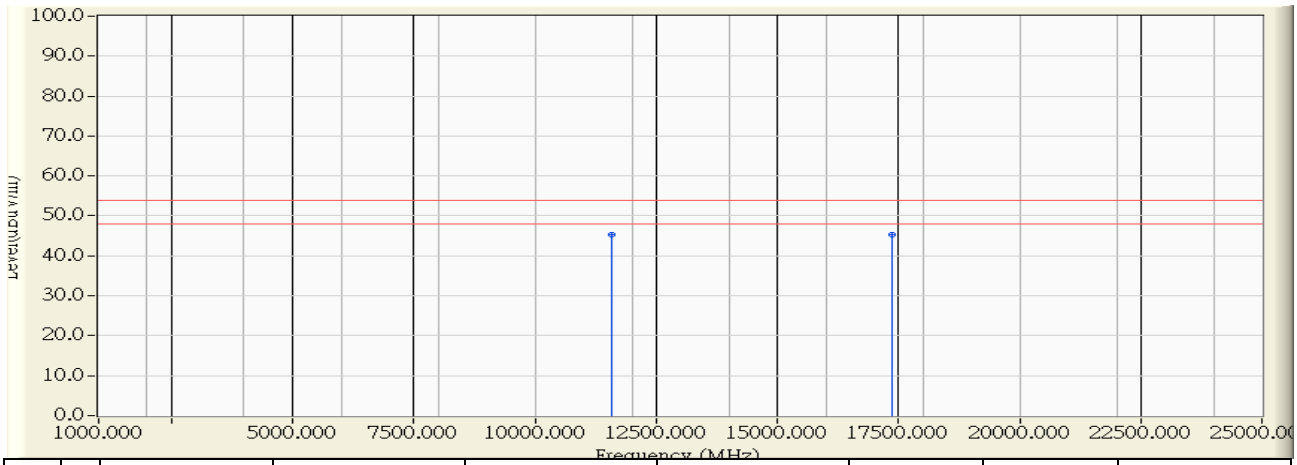


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11570.000	11.877	47.400	59.277	-14.723	74.000	PEAK
2	*	17355.000	16.052	44.310	60.362	-13.638	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:07**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5785MHz**

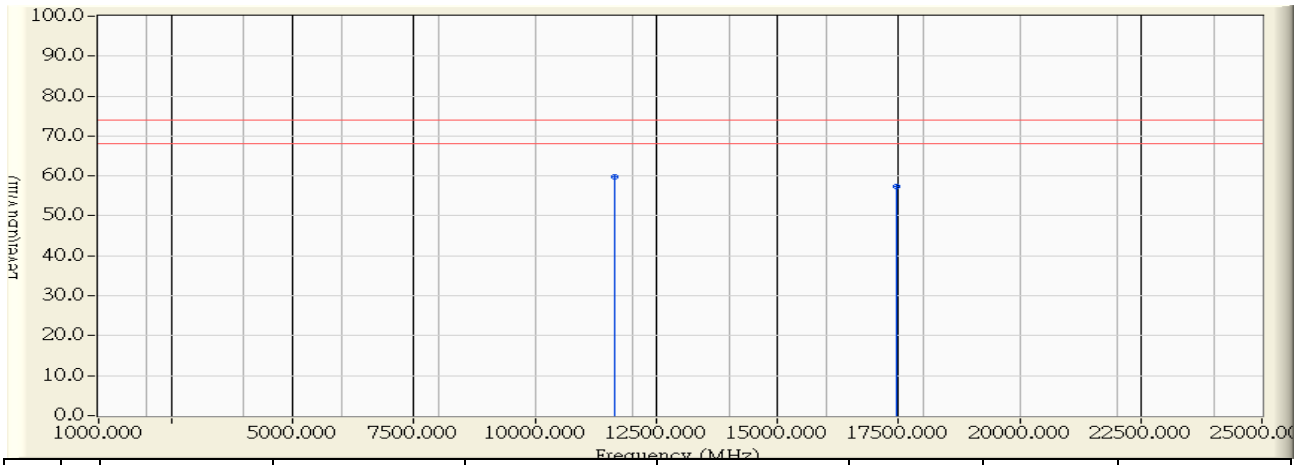


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11570.000	11.877	33.400	45.277	-8.723	54.000	AVERAGE
2	*	17355.000	16.052	29.310	45.362	-8.638	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:18**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5825MHz**

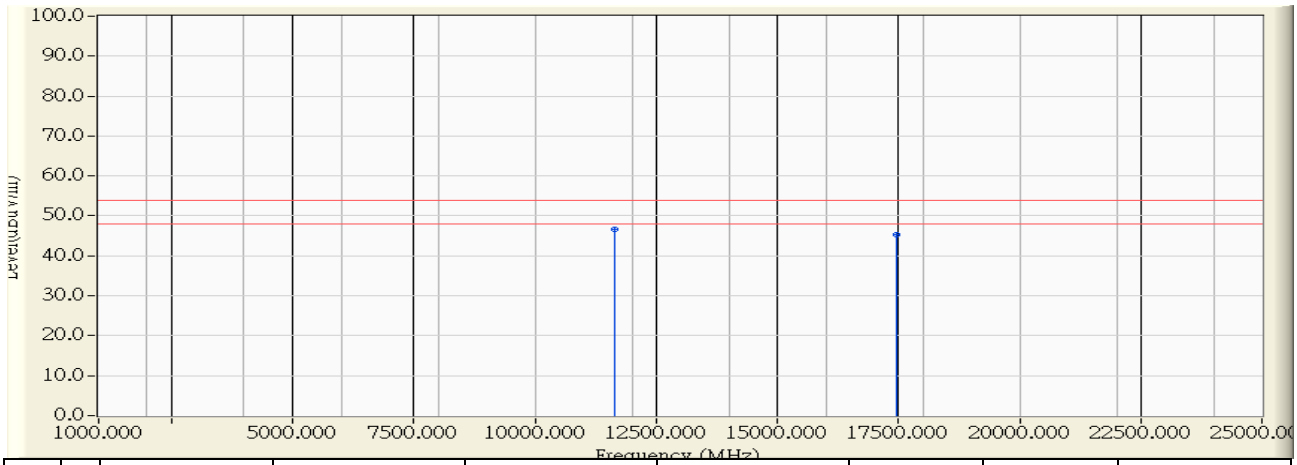


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	12.069	47.600	59.668	-14.332	74.000	PEAK
2		17475.000	16.610	40.890	57.500	-16.500	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:22**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5825MHz**

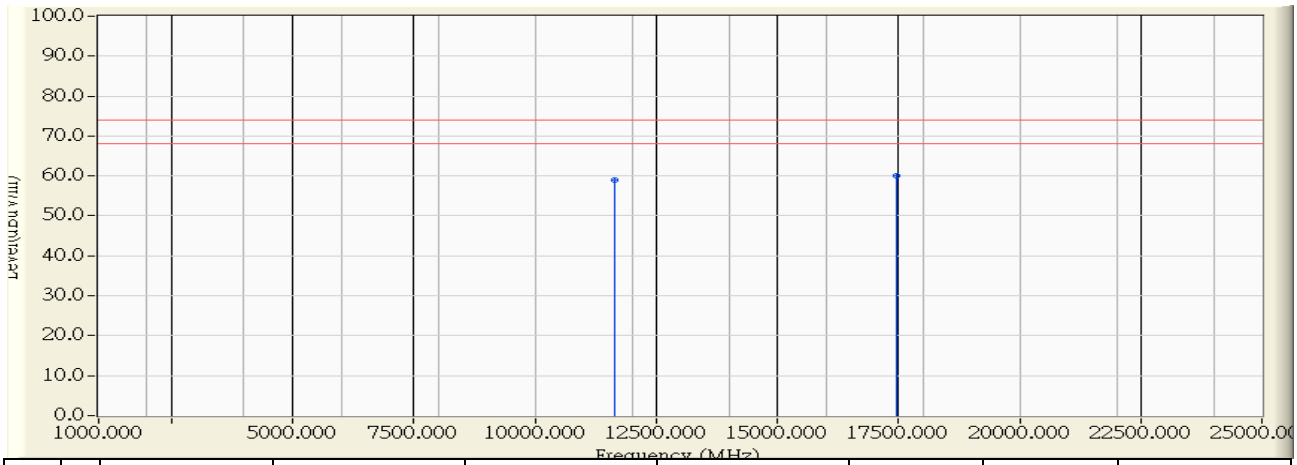


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	12.069	34.670	46.738	-7.262	54.000	AVERAGE
2		17475.000	16.610	28.640	45.250	-8.750	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:14**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5825MHz**

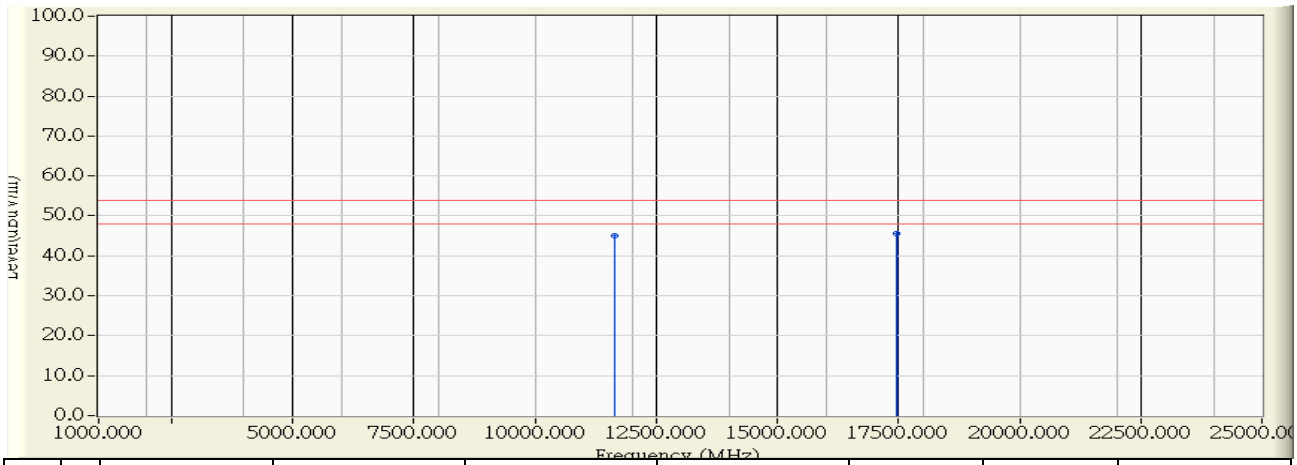


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11650.000	11.735	47.180	58.915	-15.085	74.000	PEAK
2	*	17475.000	16.610	43.530	60.140	-13.860	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:15**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11a 5825MHz**

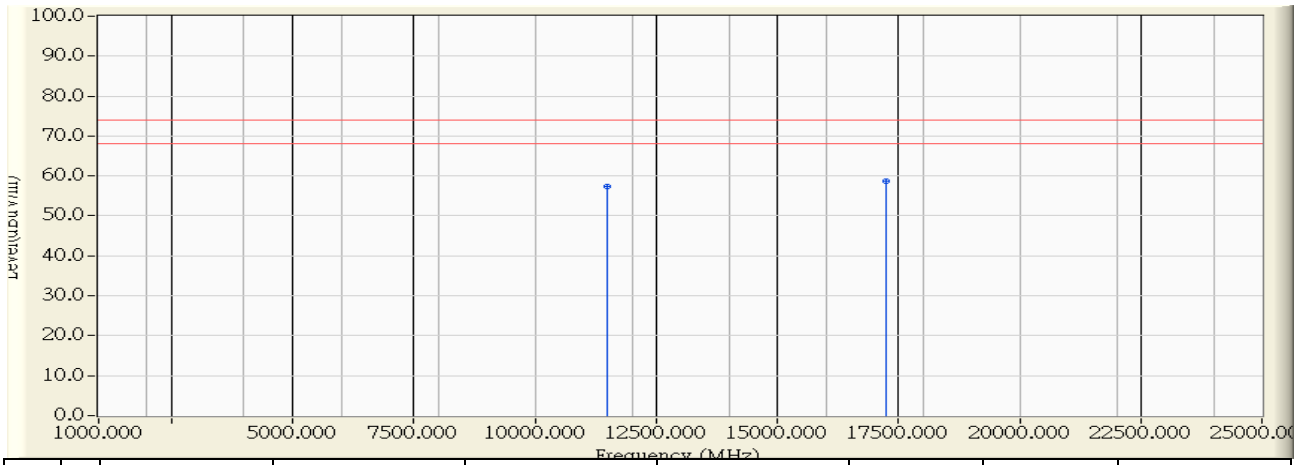


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11650.000	11.735	33.340	45.075	-8.925	54.000	AVERAGE
2	*	17475.000	16.610	28.920	45.530	-8.470	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 13:04**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5745MHz**

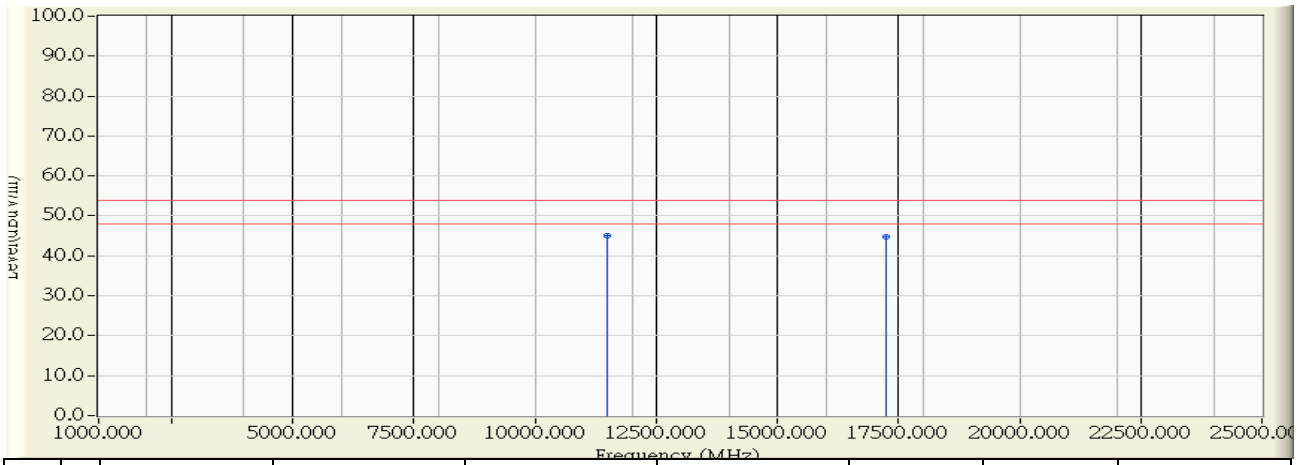


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11490.000	12.273	45.120	57.392	-16.608	74.000	PEAK
2	*	17235.000	15.500	43.160	58.660	-15.340	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 13:07**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5745MHz**

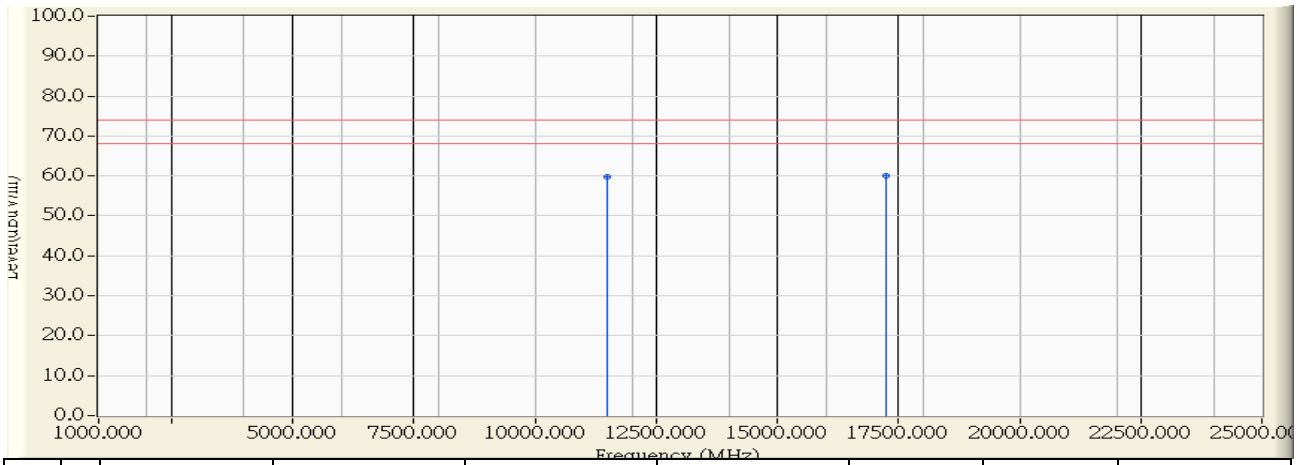


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11490.000	12.273	32.680	44.952	-9.048	54.000	AVERAGE
2		17235.000	15.500	29.280	44.780	-9.220	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 13:11**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5745MHz**

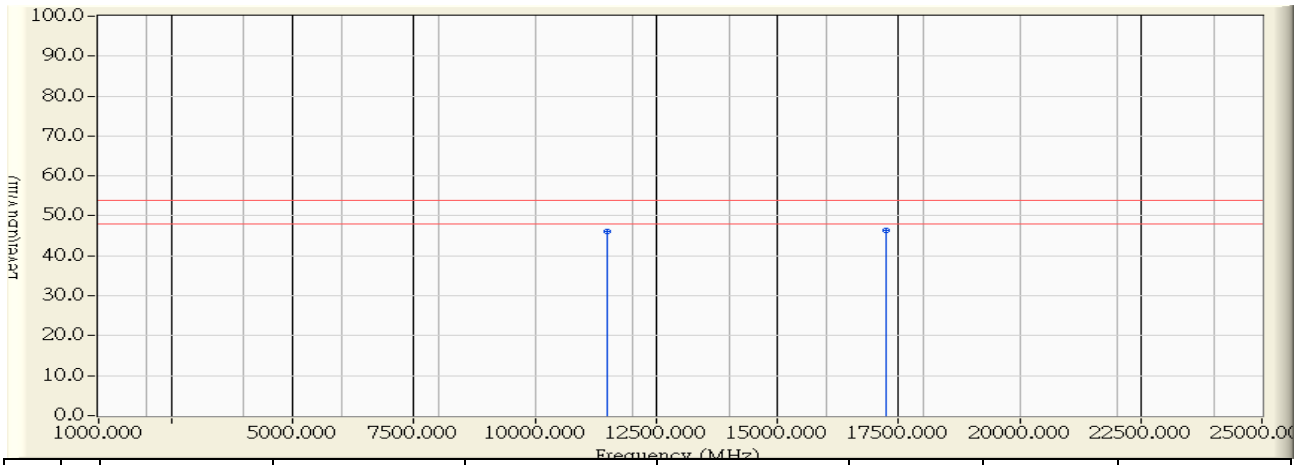


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11490.000	12.019	47.750	59.769	-14.231	74.000	PEAK
2	*	17235.000	15.500	44.680	60.180	-13.820	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 13:13**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5745MHz**

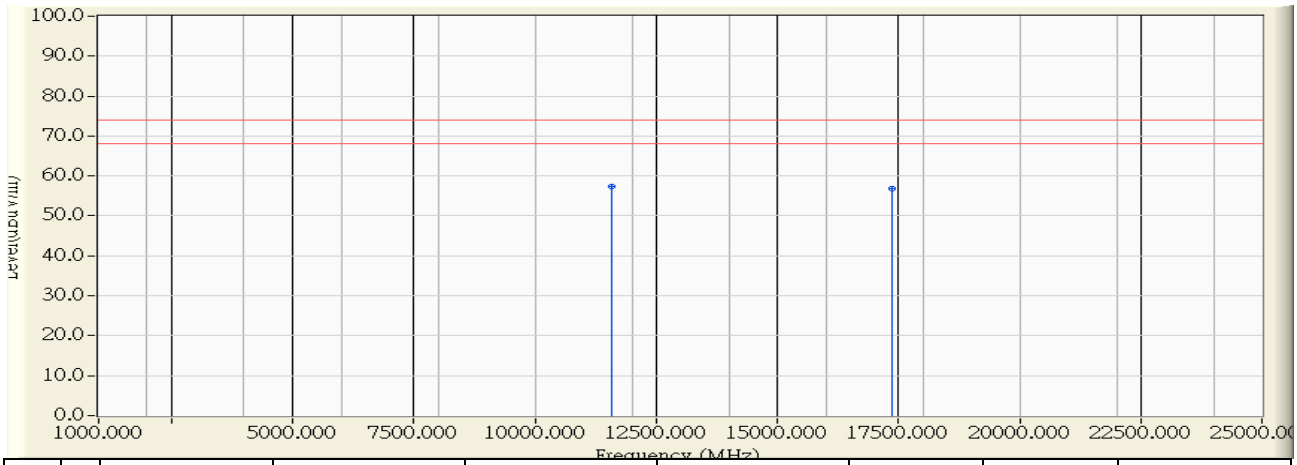


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11490.000	12.019	34.210	46.229	-7.771	54.000	AVERAGE
2	*	17235.000	15.500	30.970	46.470	-7.530	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:56**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5785MHz**

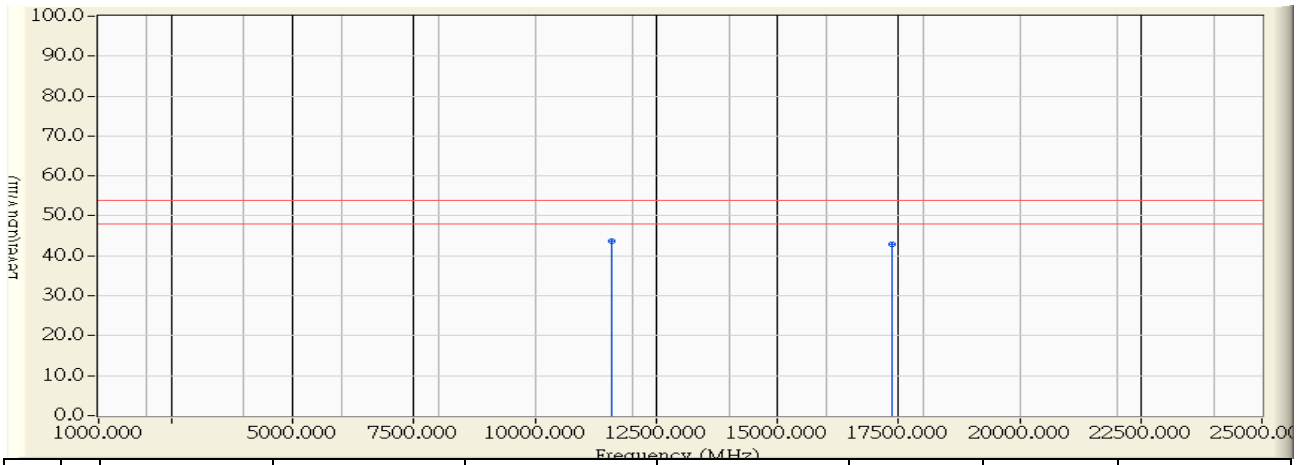


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	12.170	45.330	57.500	-16.500	74.000	PEAK
2		17355.000	16.052	40.660	56.712	-17.288	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:53**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5785MHz**

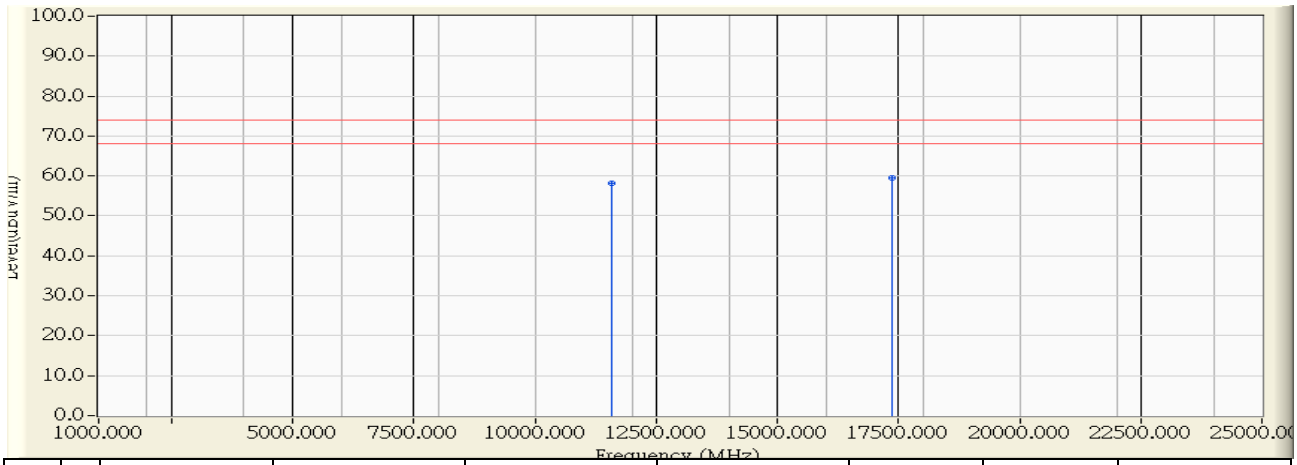


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11570.000	12.170	31.460	43.630	-10.370	54.000	AVERAGE
2		17355.000	16.052	26.860	42.912	-11.088	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:48**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5785MHz**

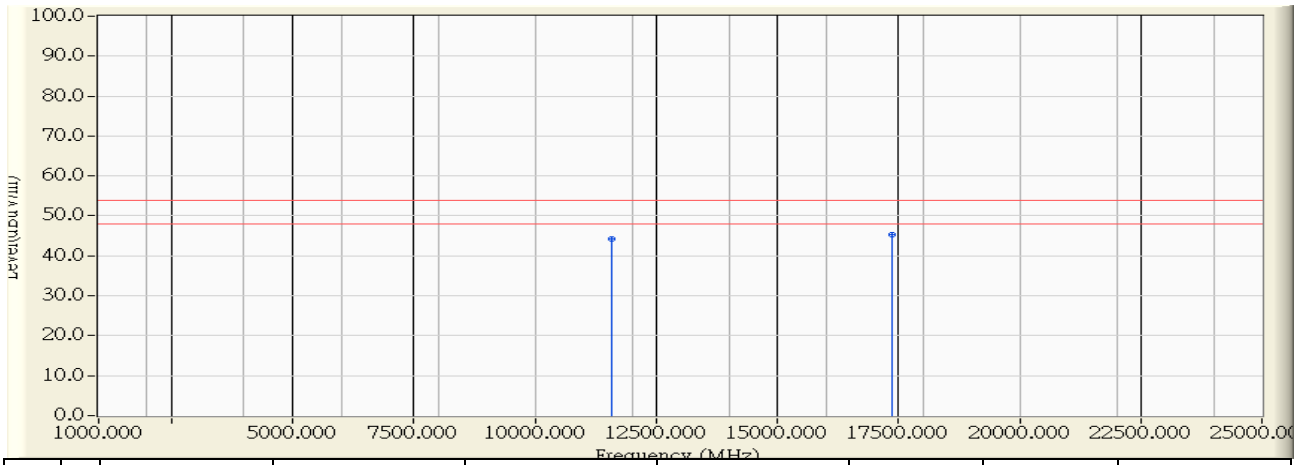


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11570.000	11.877	46.180	58.057	-15.943	74.000	PEAK
2	*	17355.000	16.052	43.380	59.432	-14.568	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:50**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5785MHz**

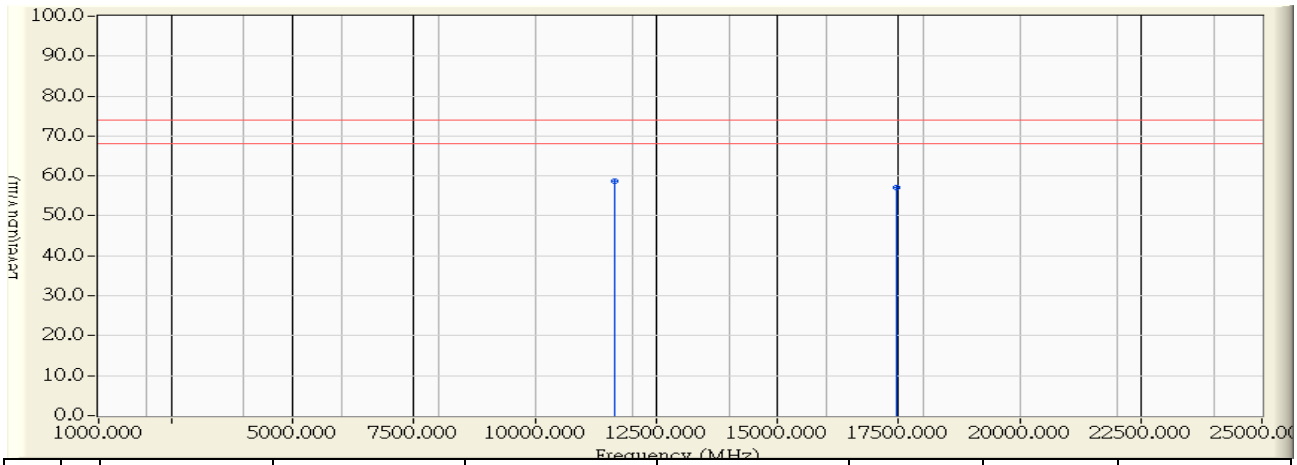


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11570.000	11.877	32.290	44.167	-9.833	54.000	AVERAGE
2	*	17355.000	16.052	29.340	45.392	-8.608	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:37**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5825MHz**

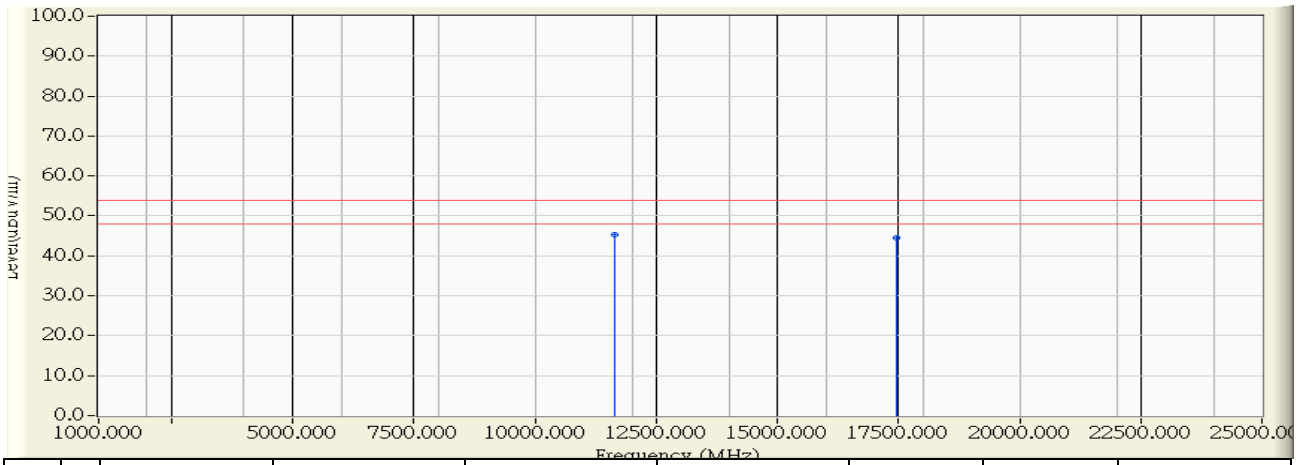


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	12.069	46.620	58.688	-15.312	74.000	PEAK
2		17475.000	16.610	40.600	57.210	-16.790	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:35**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5825MHz**

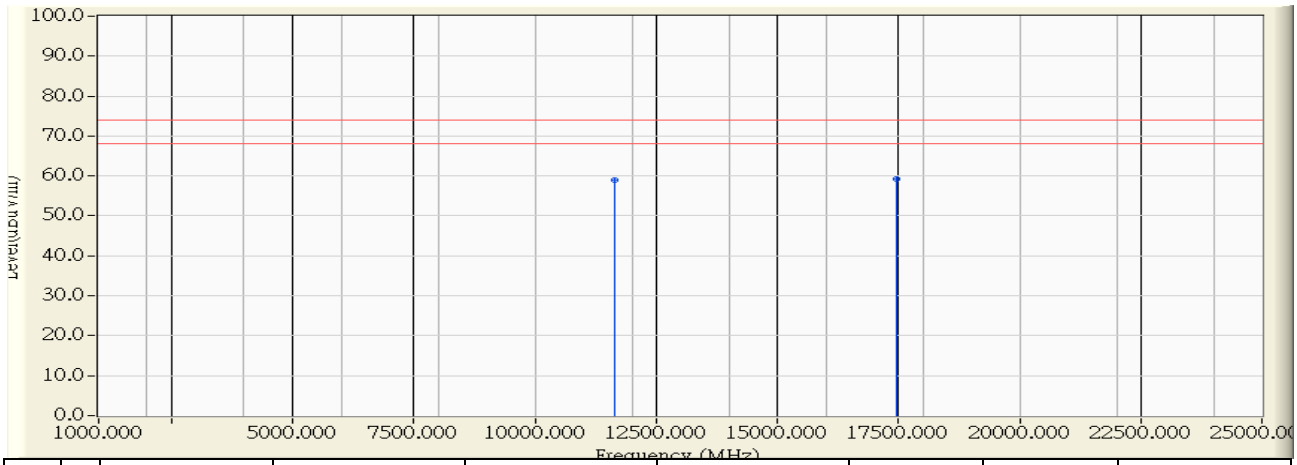


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11650.000	12.069	33.120	45.188	-8.812	54.000	AVERAGE
2		17475.000	16.610	27.900	44.510	-9.490	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:42**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5825MHz**

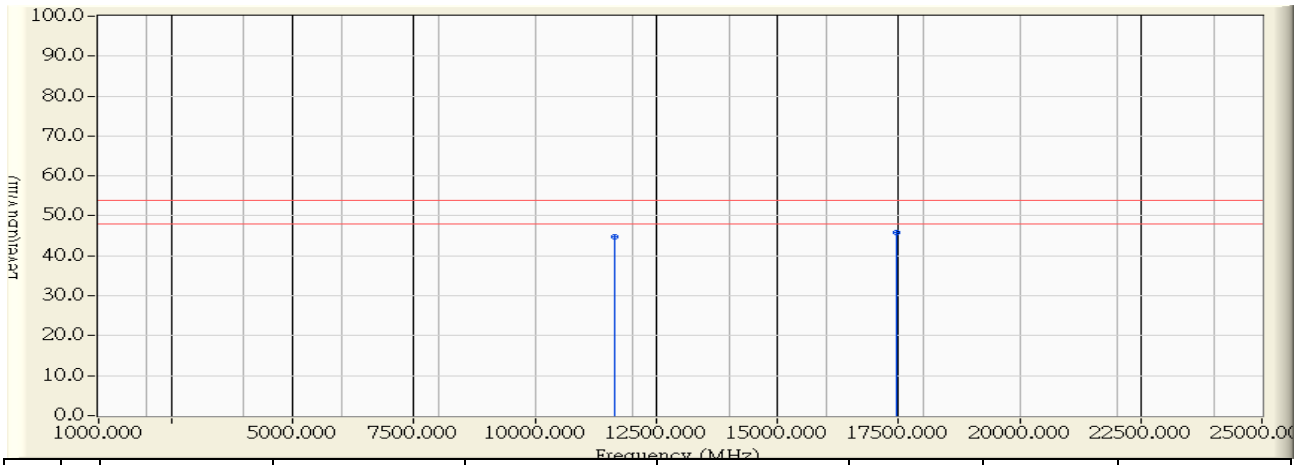


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11650.000	11.735	47.380	59.115	-14.885	74.000	PEAK
2	*	17475.000	16.610	42.660	59.270	-14.730	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 11:43**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 20MHz 5825MHz**

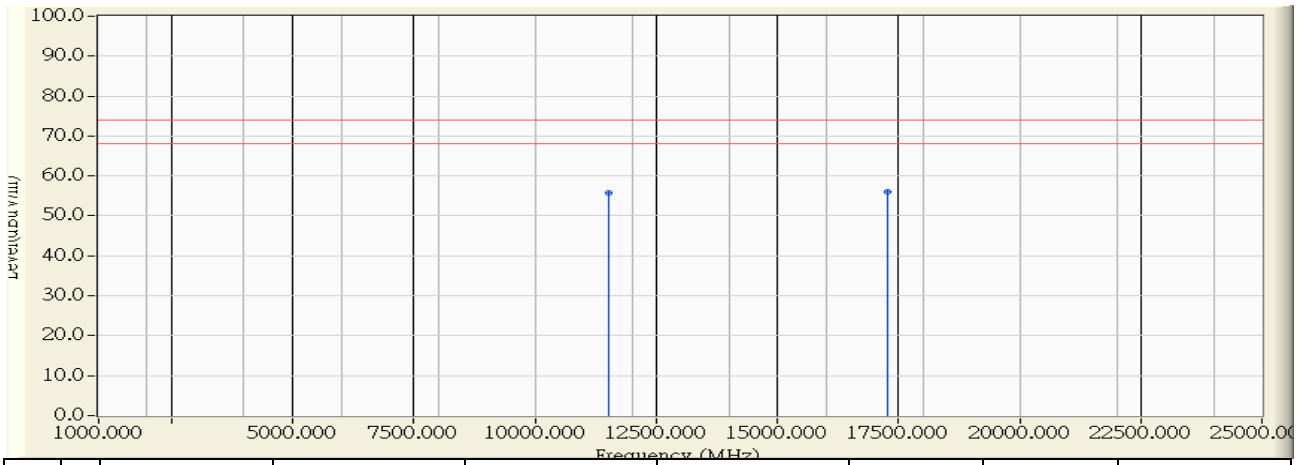


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11650.000	11.735	33.140	44.875	-9.125	54.000	AVERAGE
2	*	17475.000	16.610	29.230	45.840	-8.160	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 17:34**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 40MHz 5755MHz**

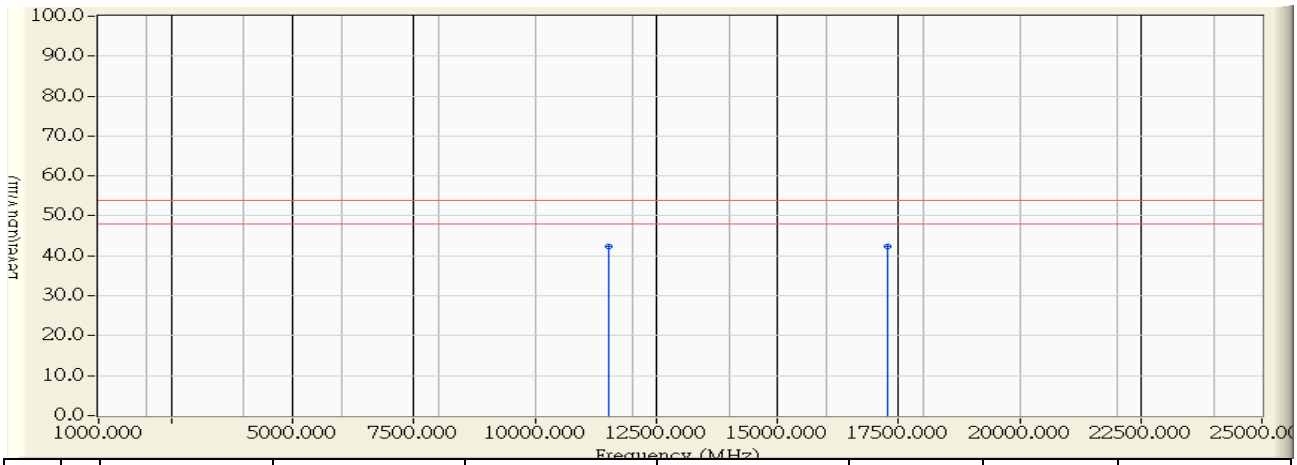


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11510.000	12.247	43.430	55.677	-18.323	74.000	PEAK
2	*	17265.000	15.638	40.300	55.938	-18.062	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 17:35**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 40MHz 5755MHz**

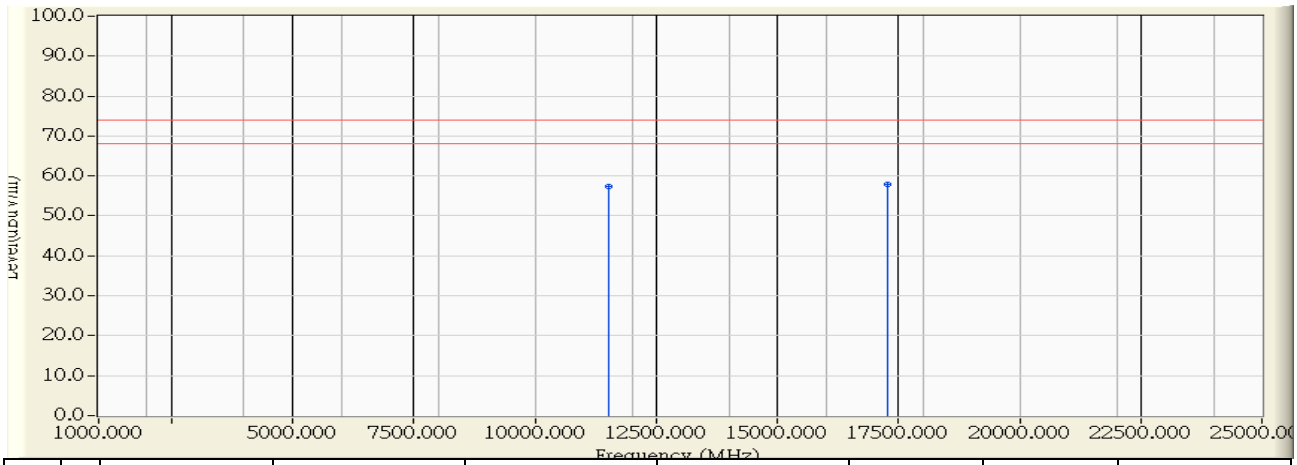


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11510.000	12.247	30.040	42.287	-11.713	54.000	AVERAGE
2	*	17265.000	15.638	26.660	42.298	-11.702	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 17:26**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 40MHz 5755MHz**

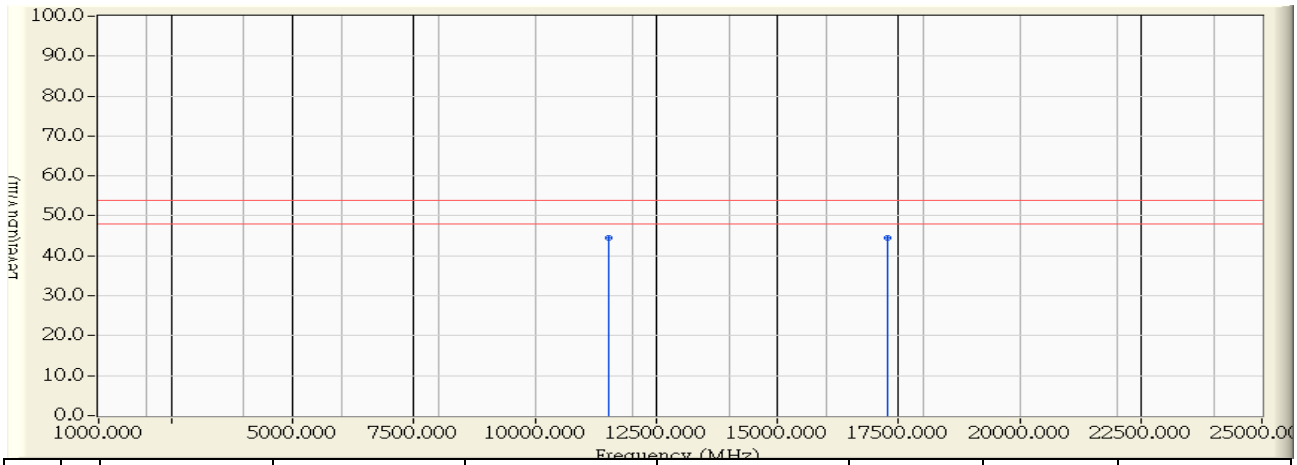


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11510.000	11.984	45.460	57.443	-16.557	74.000	PEAK
2	*	17265.000	15.638	42.140	57.778	-16.222	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 17:26**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 40MHz 5755MHz**

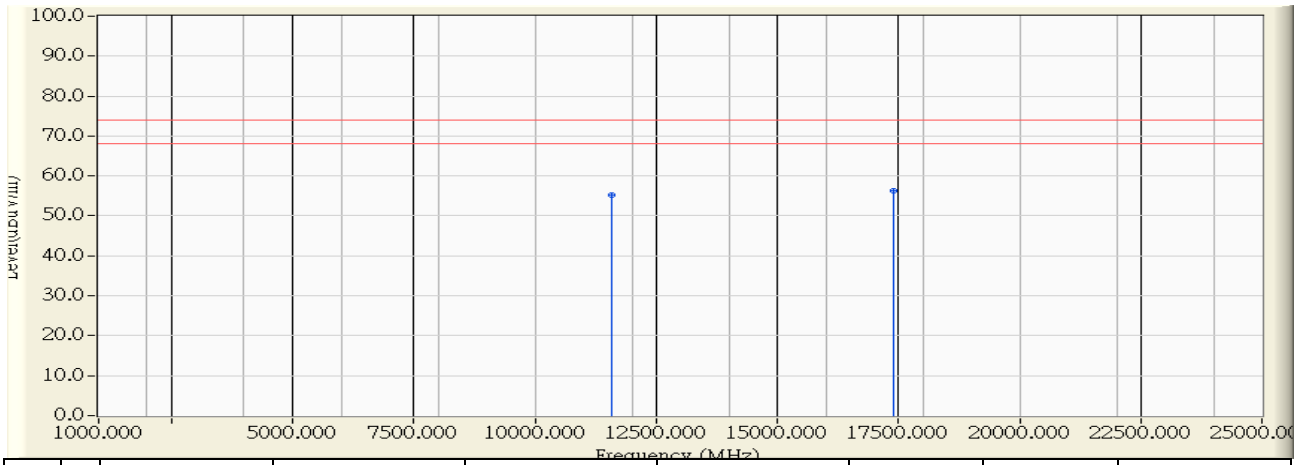


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11510.000	11.984	32.520	44.503	-9.497	54.000	AVERAGE
2	*	17265.000	15.638	28.880	44.518	-9.482	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 17:42**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 40MHz 5795MHz**

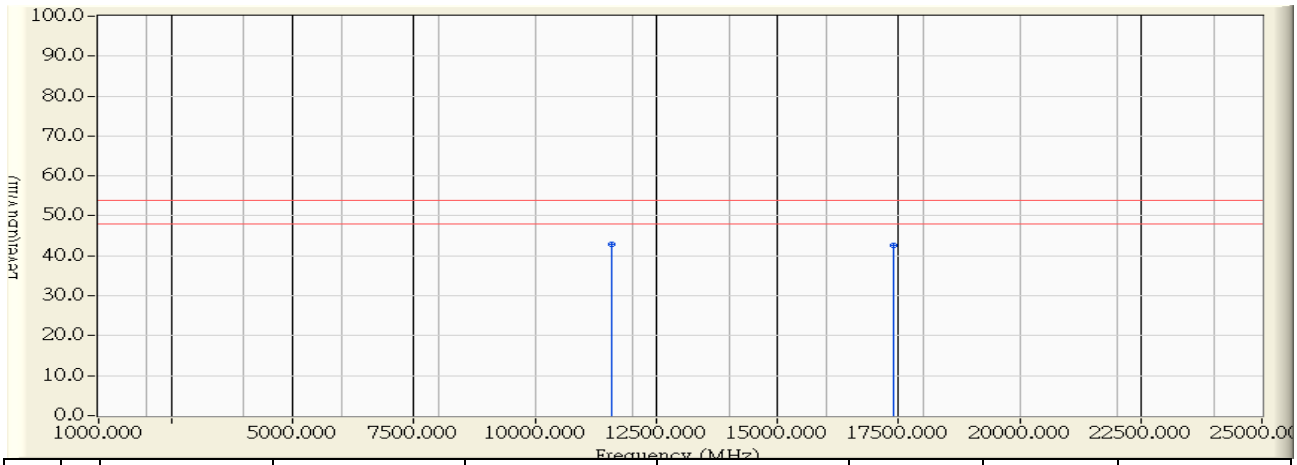


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11590.000	12.146	43.200	55.345	-18.655	74.000	PEAK
2	*	17385.000	16.190	40.040	56.230	-17.770	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 17:42**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 40MHz 5795MHz**

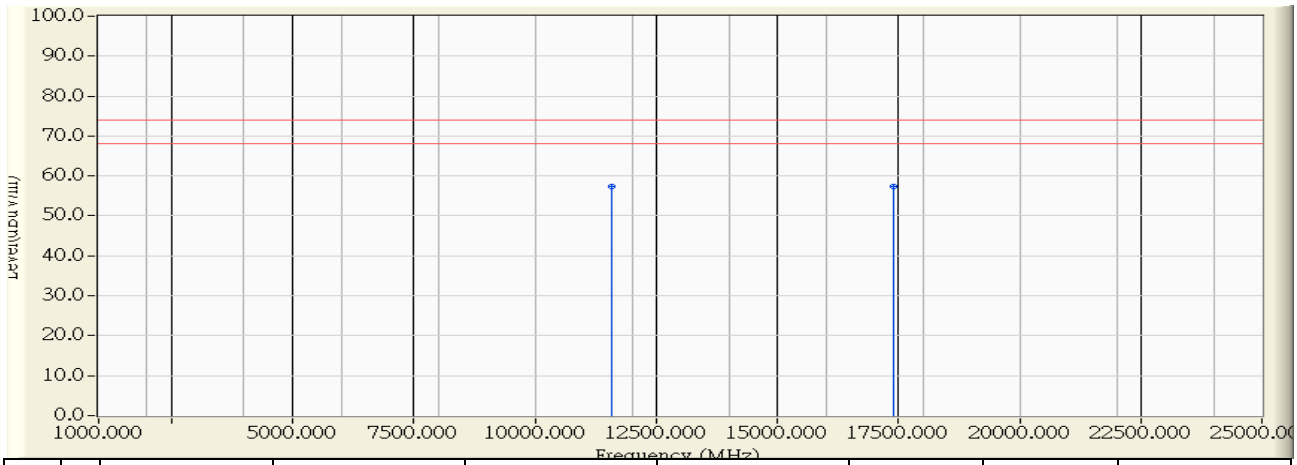


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	11590.000	12.146	30.760	42.905	-11.095	54.000	AVERAGE
2		17385.000	16.190	26.340	42.530	-11.470	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 17:49**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 40MHz 5795MHz**

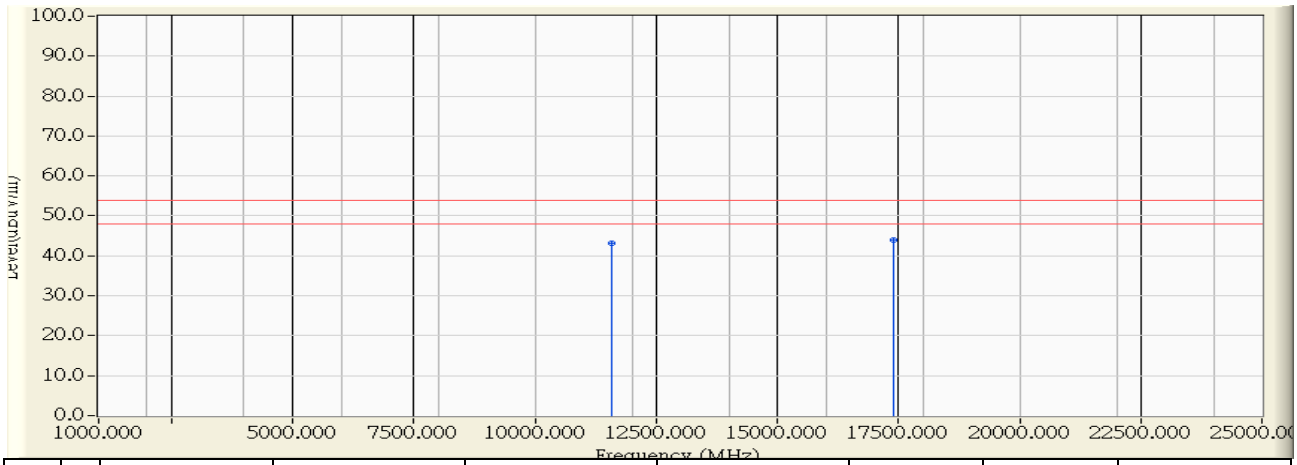


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11590.000	11.842	45.410	57.251	-16.749	74.000	PEAK
2	*	17385.000	16.190	41.240	57.430	-16.570	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 17:47**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11n 40MHz 5795MHz**

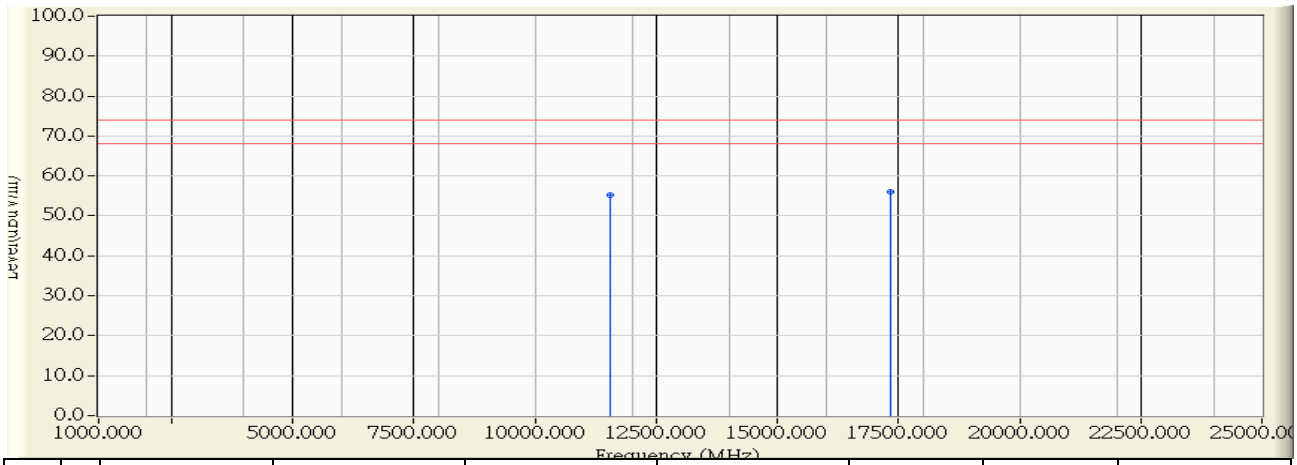


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11590.000	11.842	31.350	43.191	-10.809	54.000	AVERAGE
2	*	17385.000	16.190	27.780	43.970	-10.030	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 18:47**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11ac 80MHz 5775MHz**

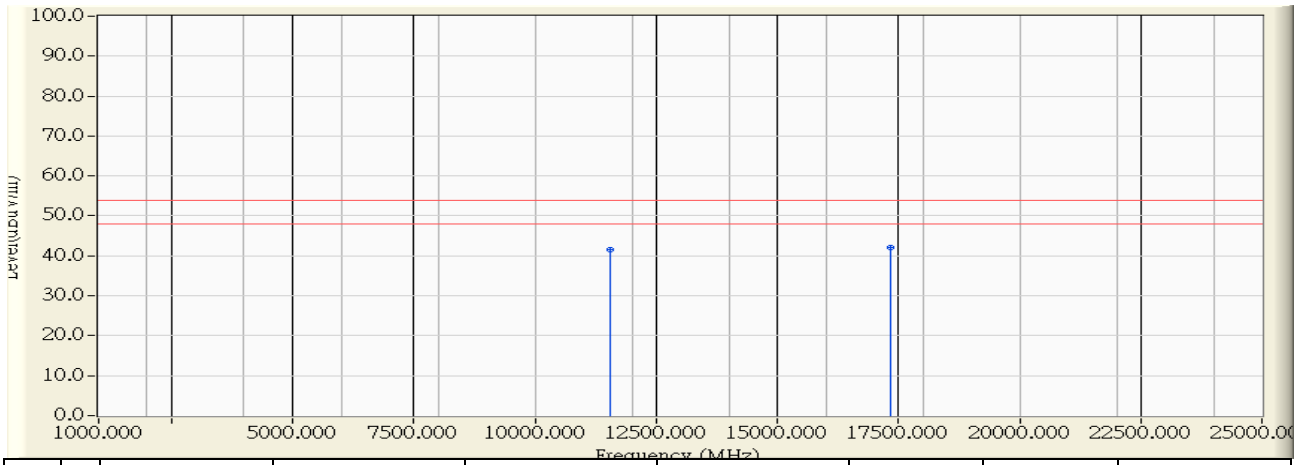


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11550.000	12.197	42.960	55.156	-18.844	74.000	PEAK
2	*	17325.000	15.914	39.990	55.904	-18.096	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 18:48**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11ac 80MHz 5775MHz**

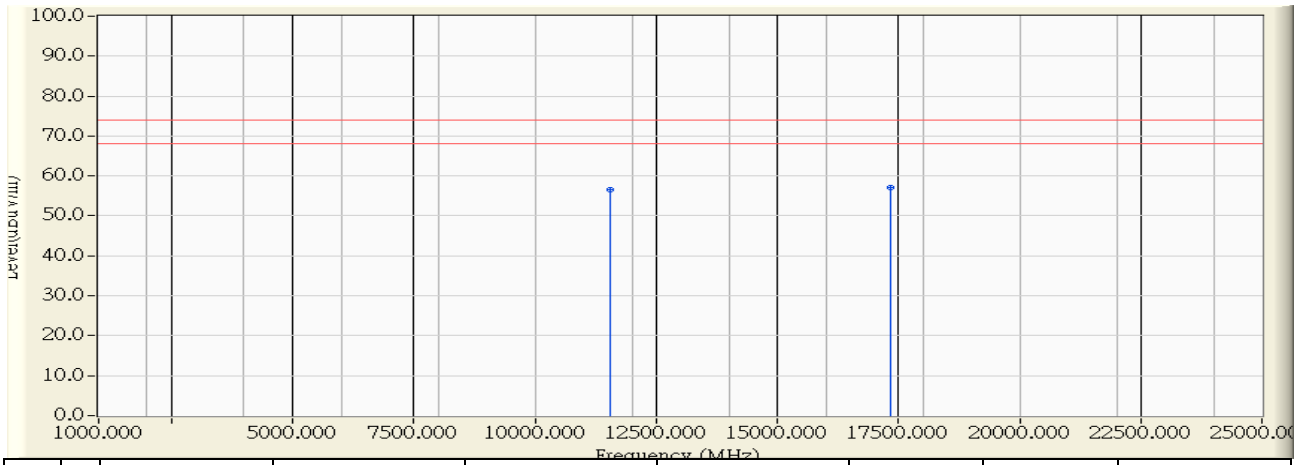


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11550.000	12.197	29.260	41.456	-12.544	54.000	AVERAGE
2	*	17325.000	15.914	26.110	42.024	-11.976	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 18:39**
Limit : FCC_SpartC_15.209_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11ac 80MHz 5775MHz**

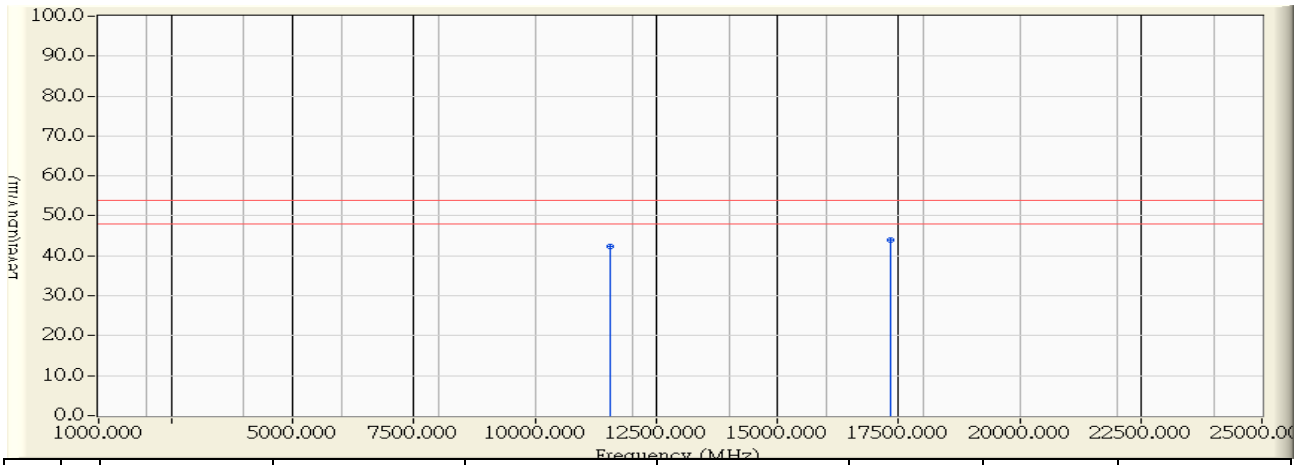


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11550.000	11.913	44.620	56.532	-17.468	74.000	PEAK
2	*	17325.000	15.914	41.210	57.124	-16.876	74.000	PEAK

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

Site : CB1	**Time : 2015/05/18 - 18:41**
Limit : FCC_SpartC_15.209_03M_AV	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC 120V / 60Hz**
EUT : Dual-band Wireless-AC1200 Range Extender	**Note : Mode 1: Transmit_802.11ac 80MHz 5775MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		11550.000	11.913	30.470	42.382	-11.618	54.000	AVERAGE
2	*	17325.000	15.914	27.940	43.854	-10.146	54.000	AVERAGE

Note:

1. All readings above 1GHz are performed with peak and/or average measurements as necessary.
2. Peak measurements: RBW = 1MHz, VBW = 3 MHz, Sweep: Auto.
3. Average measurements: RBW = 1MHz, VBW = 10 Hz, Sweep: Auto.
4. " * ", means this data is the worst emission level.
5. Measurement Level = Reading Level + Correct Factor.
6. The average measurement was not performed when the peak measured data under the limit of average detection.
7. The Emission above 18GHz were not included is because their levels are too low.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

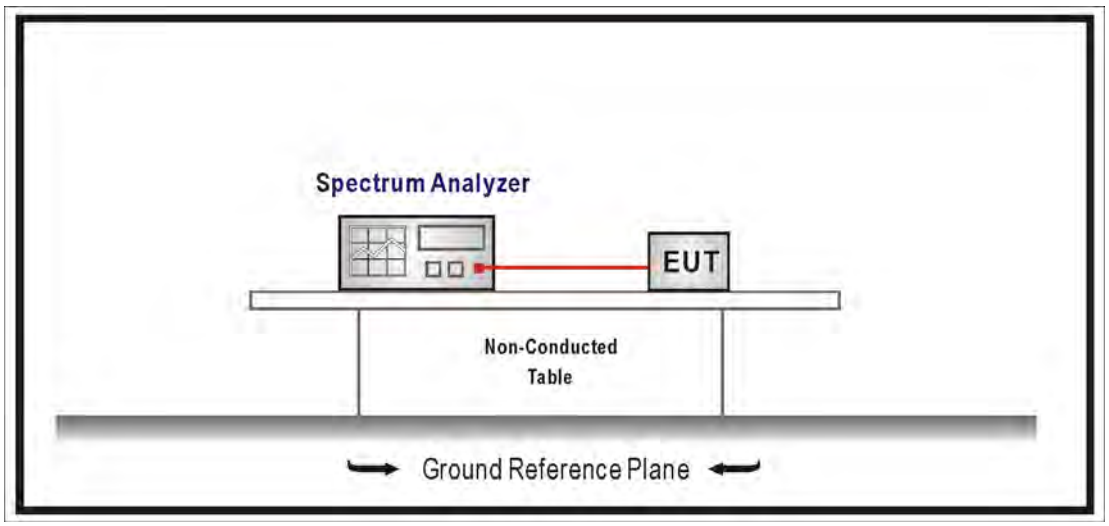
RF antenna conducted test / SR7

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

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

5.2. Test Setup

RF Antenna Conducted Measurement:



5.3. Limits

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on an RF conducted or radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

5.4. Test Procedure

The EUT was setup according to ANSI C63.10: 2009 and tested according to DTS test procedure section 11.2 of KDB558074 v03r02 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Set VBW> RBW, scan up through 10th harmonic.

5.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2014

5.6. Uncertainty

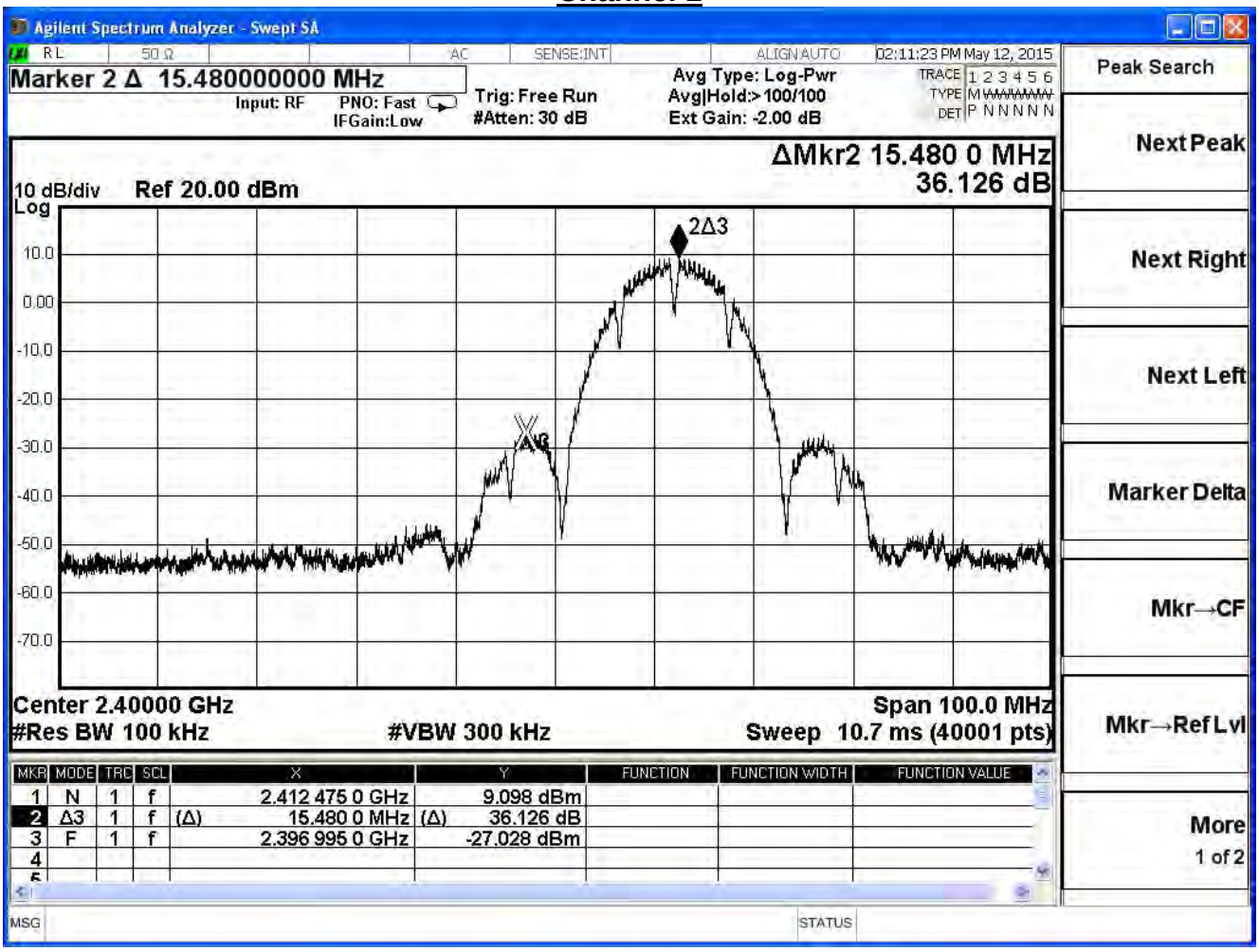
Conducted is defined as ± 1.27dB

5.7. Test Result

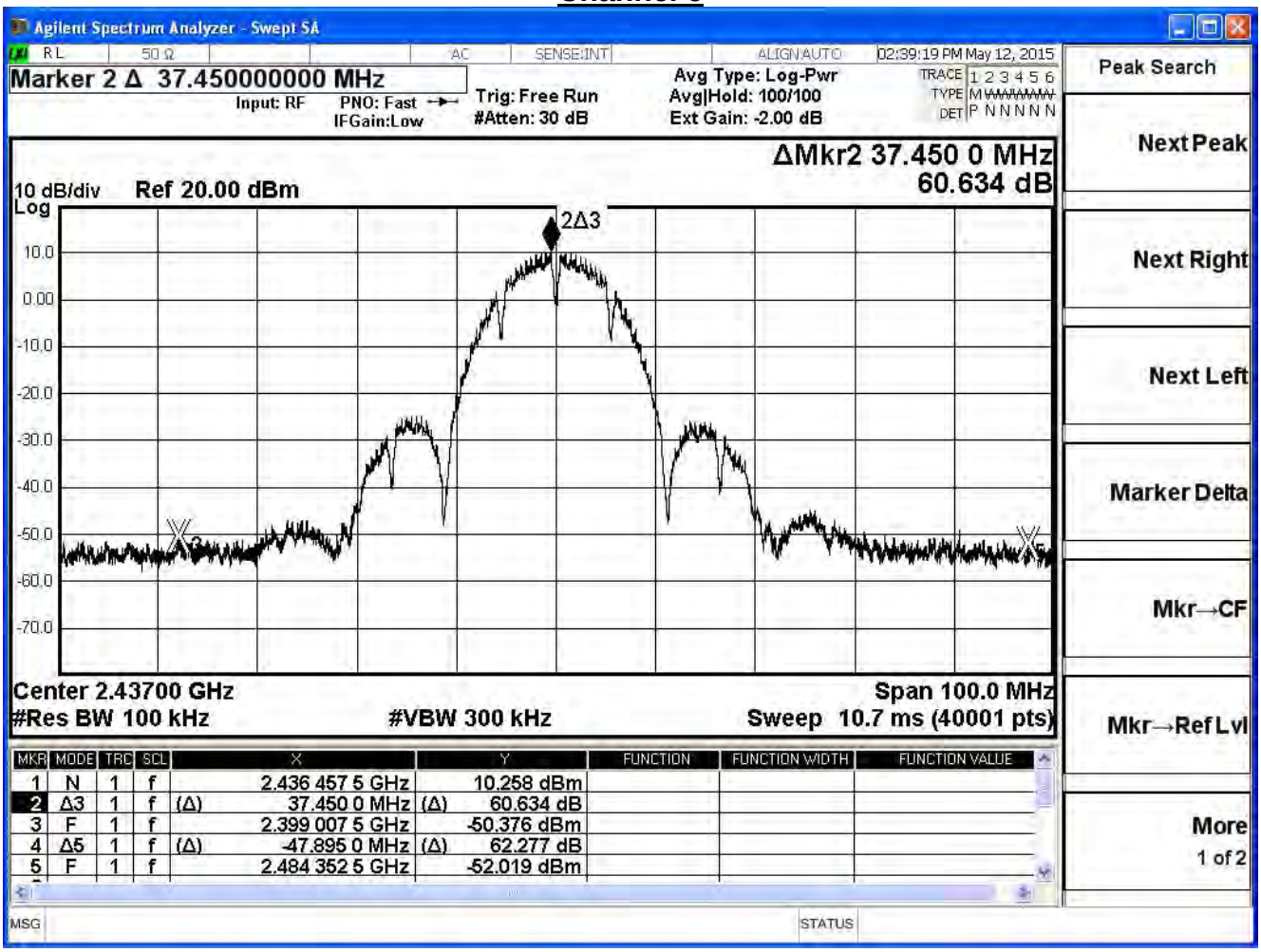
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11b (ANT 0), Antenna Gain: 2dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	36.13	≧30	Pass
6	2437	60.63	≧30	Pass
11	2462	58.56	≧30	Pass

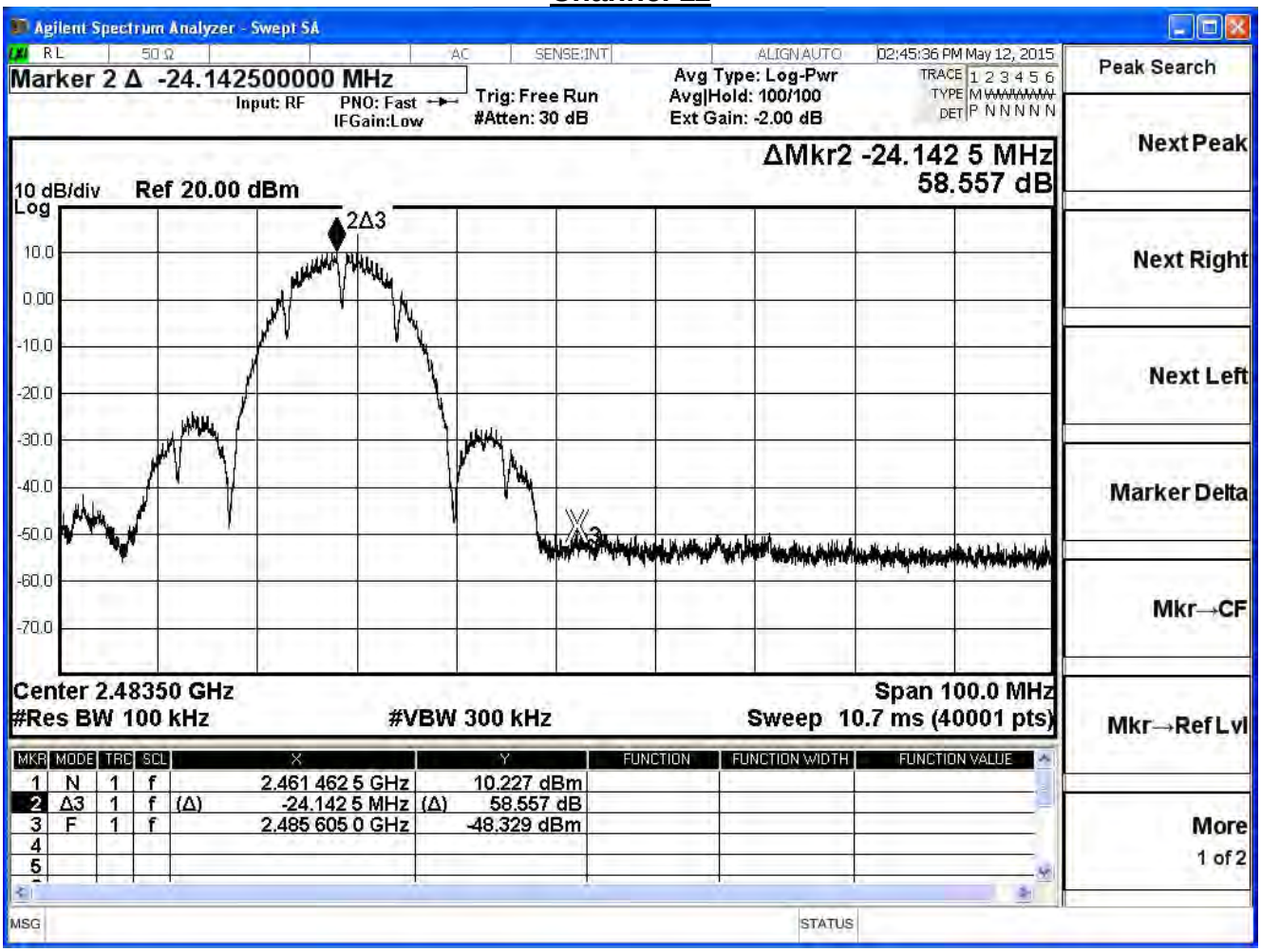
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ 37.450000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:39:19 PM May 12, 2015
ΔMkr2 37.450 0 MHz
60.634 dB
10 dB/div
Ref 20.00 dBm
Log
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.436 457 5 GHz 10.258 dBm
2 Δ3 1 f (Δ) 37.450 0 MHz (Δ) 60.634 dB
3 F 1 f 2.399 007 5 GHz -50.376 dBm
4 Δ5 1 f (Δ) -47.895 0 MHz (Δ) 62.277 dB
5 F 1 f 2.484 352 5 GHz -52.019 dBm
MSG
STATUS

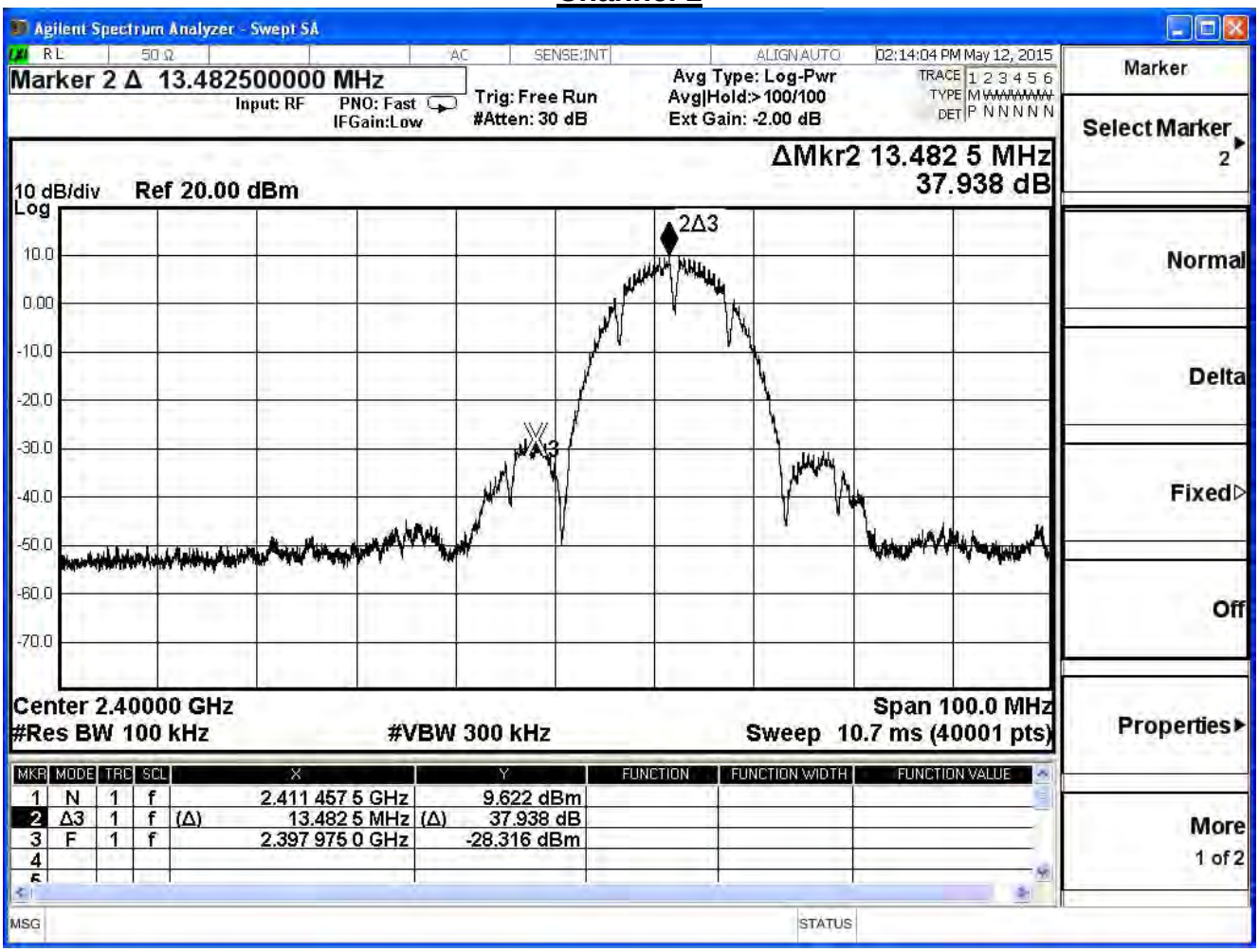
Channel 11


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -24.142500000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:45:36 PM May 12, 2015
ΔMkr2 -24.142 5 MHz
58.557 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.461 462 5 GHz 10.227 dBm
2 Δ3 1 f (Δ) -24.142 5 MHz (Δ) 58.557 dB
3 F 1 f 2.485 605 0 GHz -48.329 dBm
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

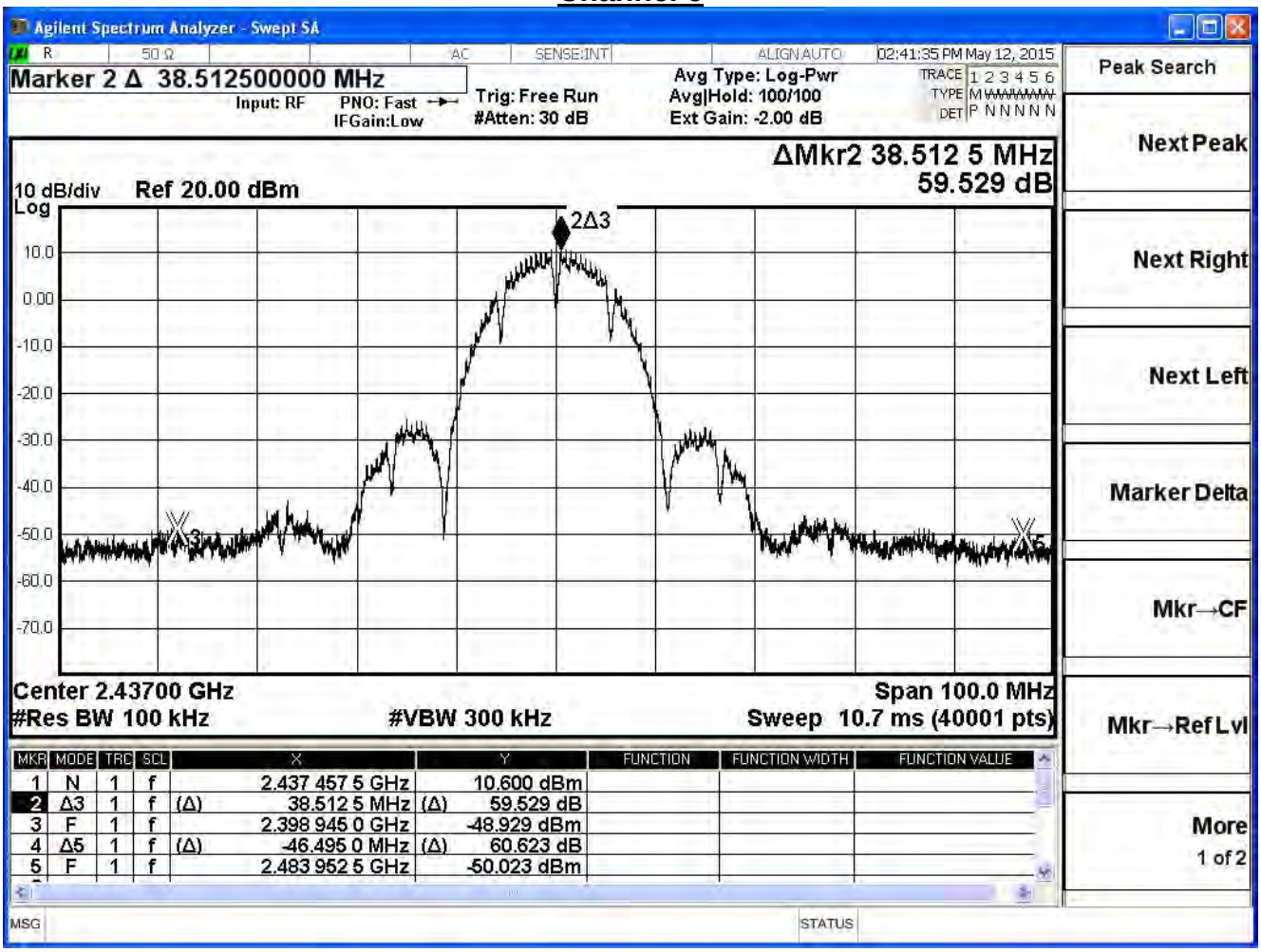
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11b (ANT 1), Antenna Gain: 2dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	37.94	≧30	Pass
6	2437	59.53	≧30	Pass
11	2462	56.56	≧30	Pass

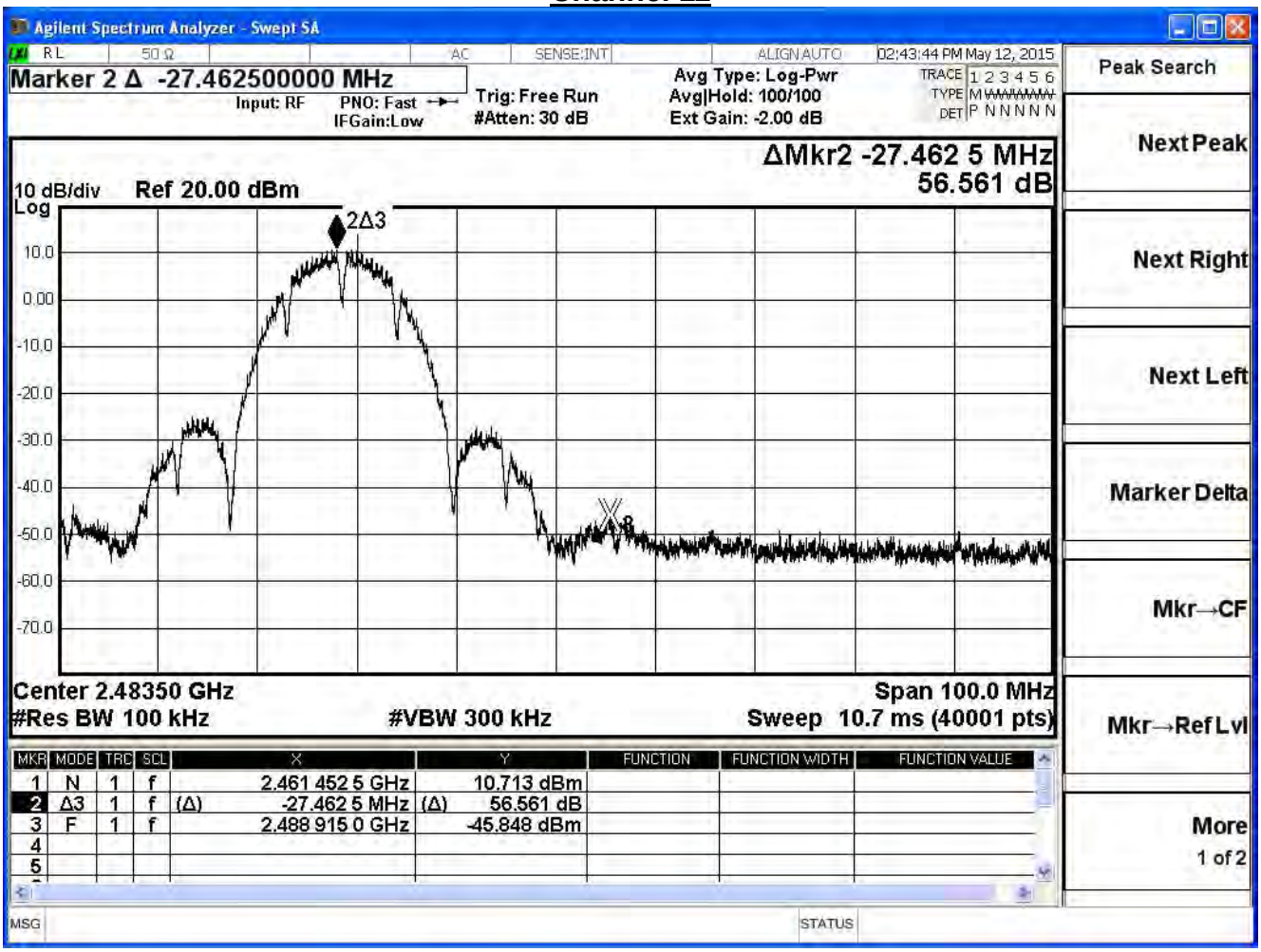
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ 38.512500000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:41:35 PM May 12, 2015
ΔMkr2 38.512 5 MHz
59.529 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.437 457 5 GHz 10.600 dBm
2 Δ3 1 f (Δ) 38.512 5 MHz (Δ) 59.529 dB
3 F 1 f 2.398 945 0 GHz -48.929 dBm
4 Δ5 1 f (Δ) -46.495 0 MHz (Δ) 60.623 dB
5 F 1 f 2.483 952 5 GHz -50.023 dBm
MSG
STATUS

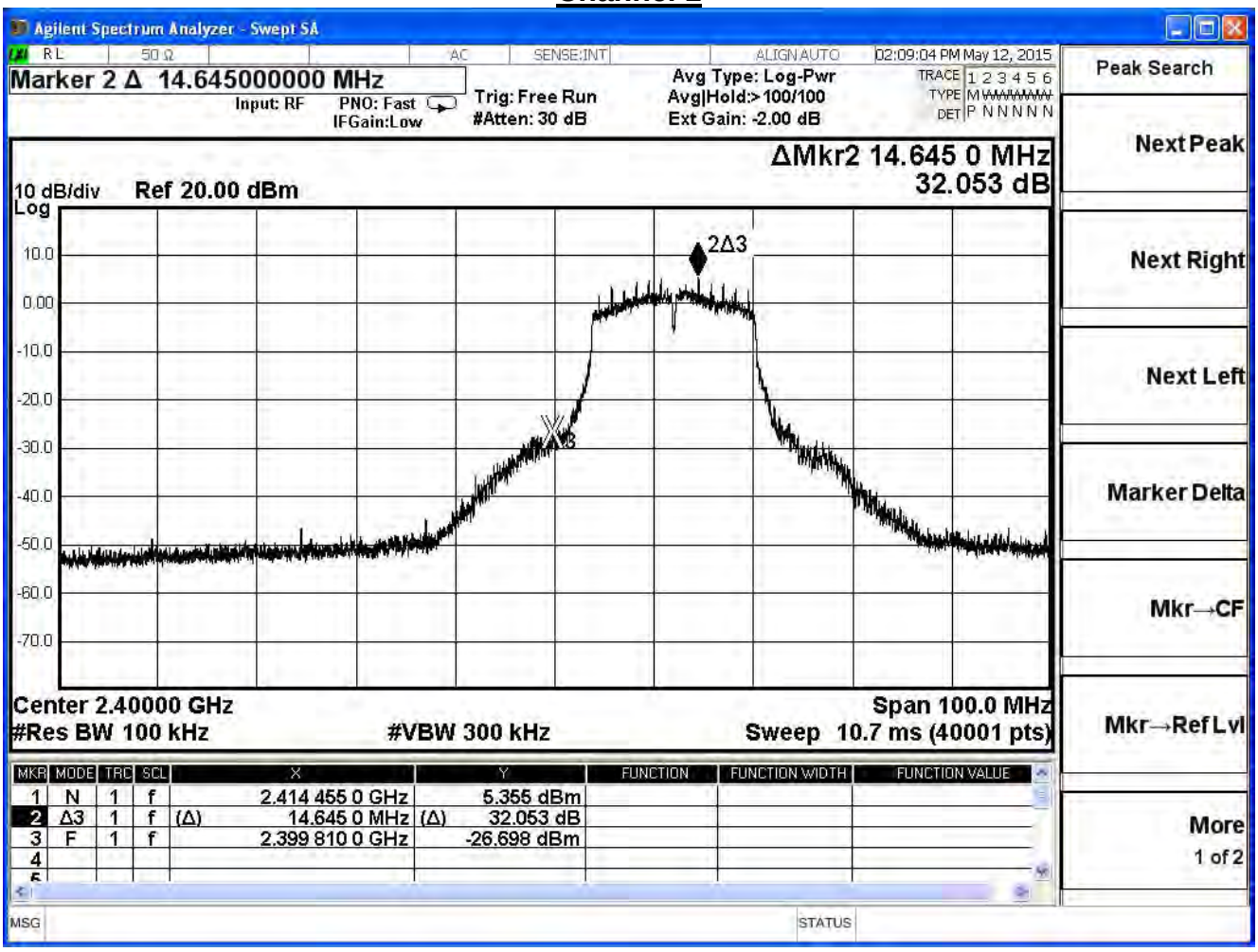
Channel 11


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -27.462500000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:43:44 PM May 12, 2015
ΔMkr2 -27.462 5 MHz
56.561 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.461 452 5 GHz 10.713 dBm
2 Δ3 1 f (Δ) -27.462 5 MHz (Δ) 56.561 dB
3 F 1 f 2.488 915 0 GHz -45.848 dBm
MSG
STATUS

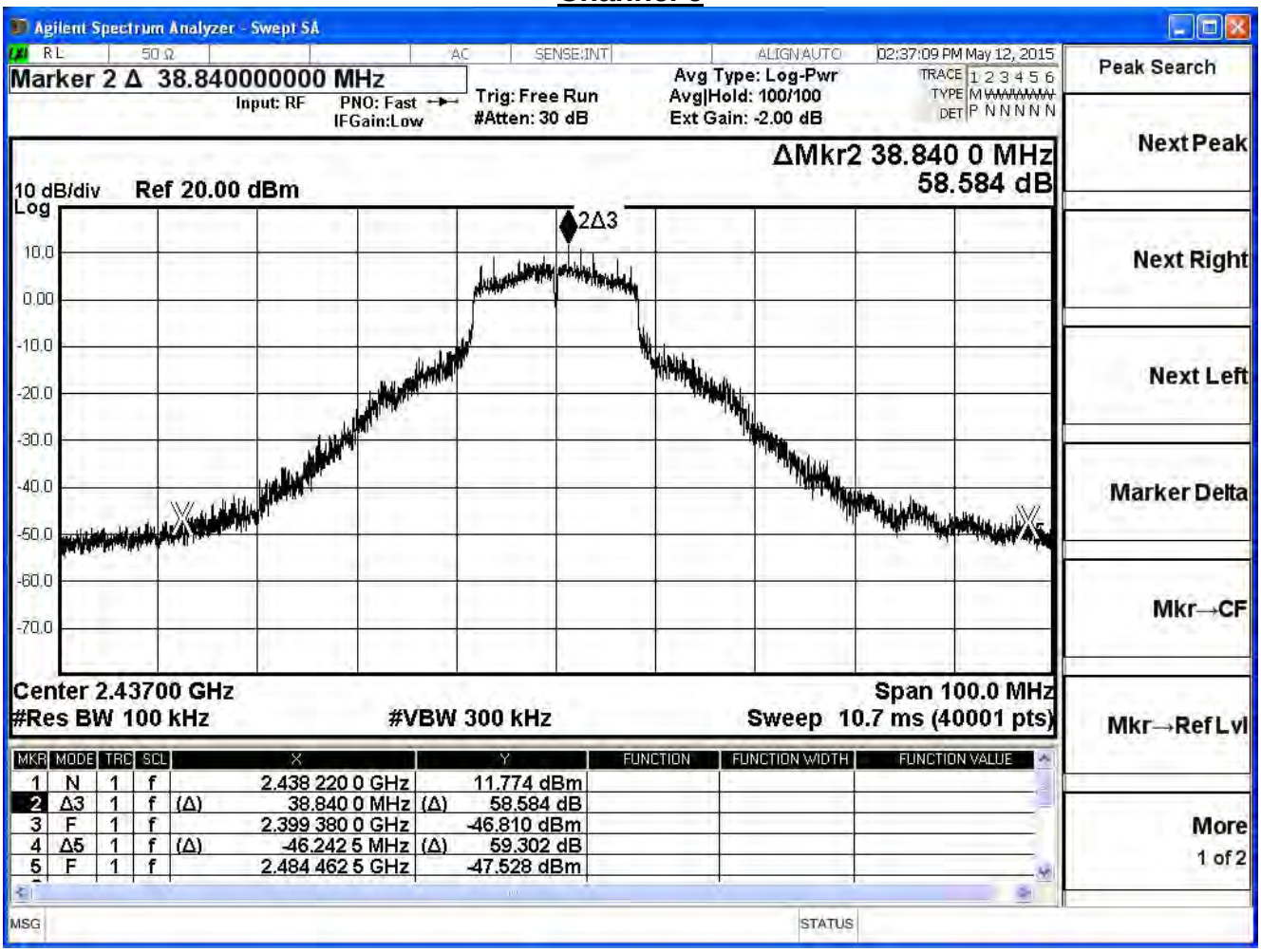
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11g (ANT 0), Antenna Gain: 2dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	32.05	≧30	Pass
6	2437	58.58	≧30	Pass
11	2462	48.99	≧30	Pass

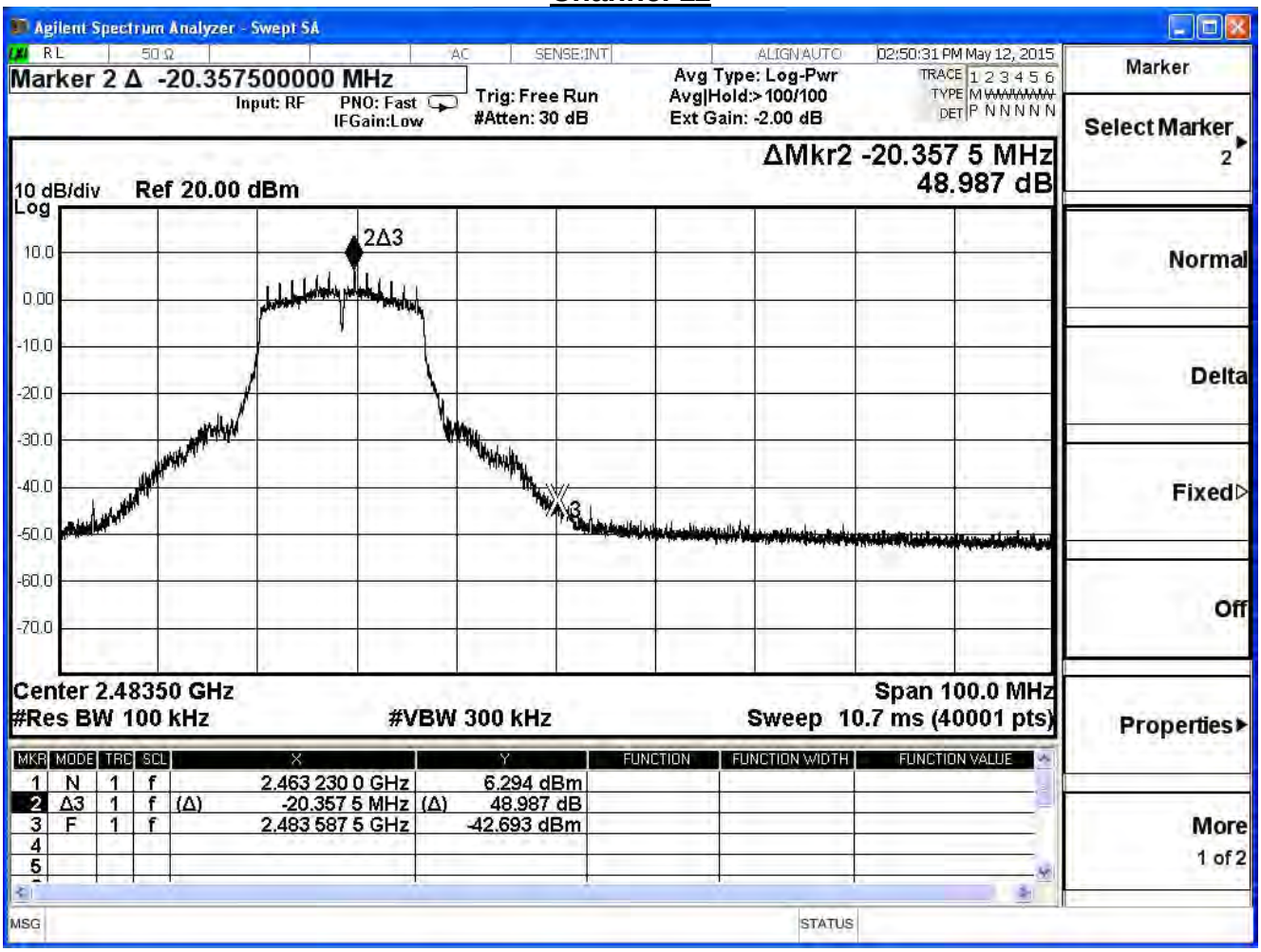
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ 38.840000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:37:09 PM May 12, 2015
ΔMkr2 38.840 0 MHz
58.584 dB
10 dB/div
Ref 20.00 dBm
Log
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.438 220 0 GHz 11.774 dBm
2 Δ3 1 f (Δ) 38.840 0 MHz (Δ) 58.584 dB
3 F 1 f 2.399 380 0 GHz -46.810 dBm
4 Δ5 1 f (Δ) -46.242 5 MHz (Δ) 59.302 dB
5 F 1 f 2.484 462 5 GHz -47.528 dBm
MSG
STATUS

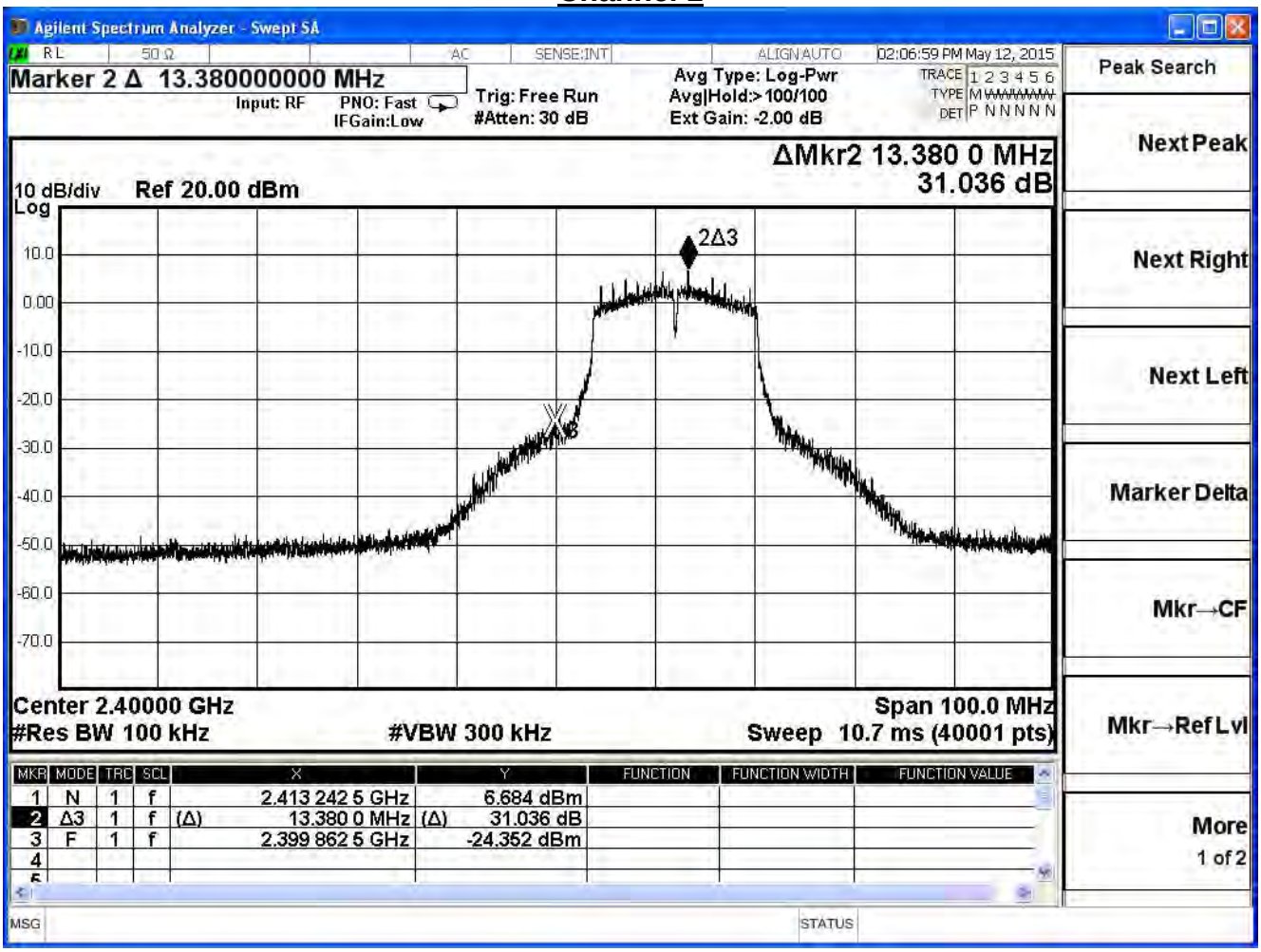
Channel 11


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -20.357500000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
02:50:31 PM May 12, 2015
ΔMkr2 -20.357 5 MHz
48.987 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.463 230 0 GHz 6.294 dBm
2 Δ3 1 f (Δ) -20.357 5 MHz (Δ) 48.987 dB
3 F 1 f 2.483 587 5 GHz -42.693 dBm
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MSG
STATUS

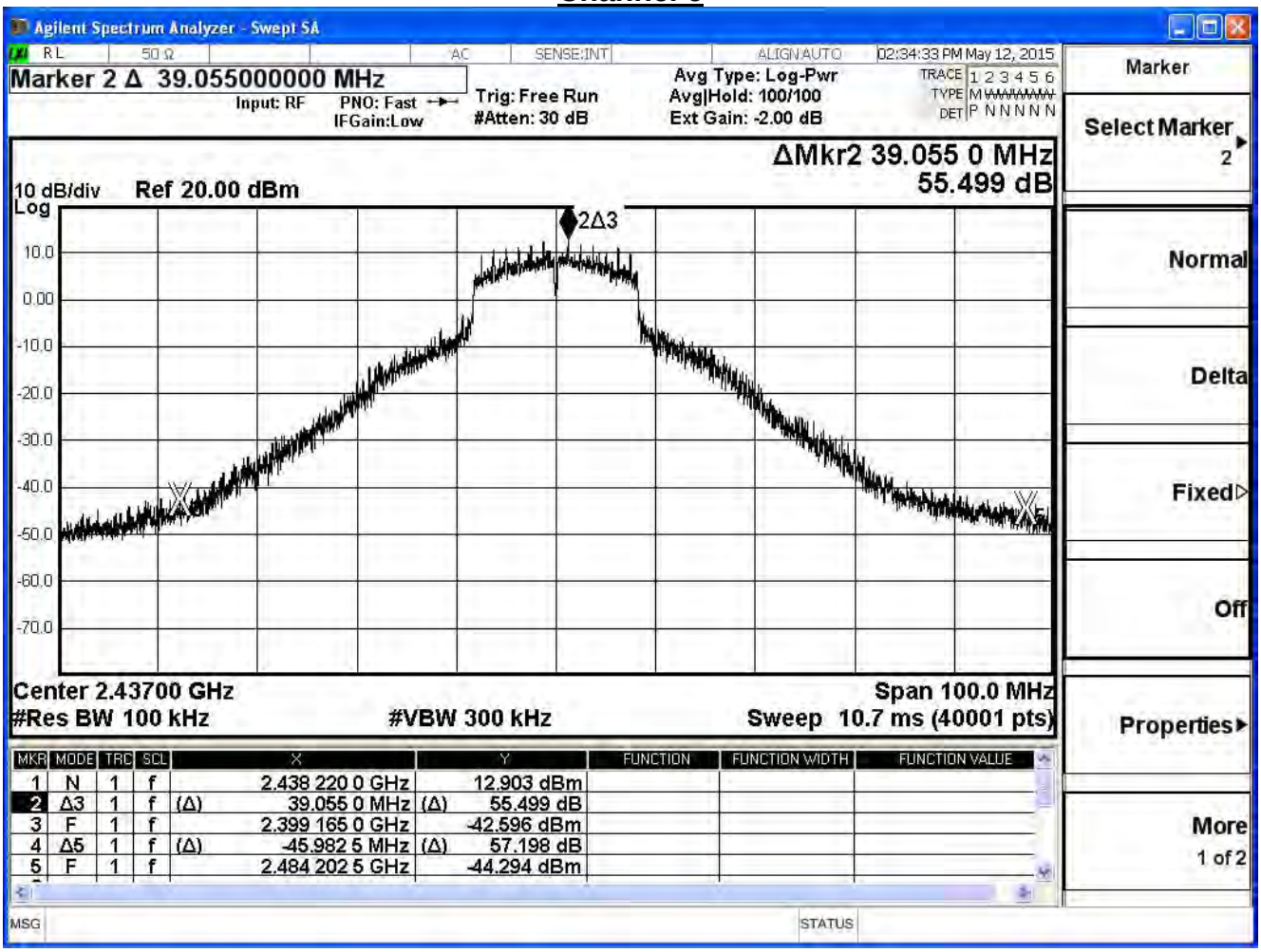
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11g (ANT 1), Antenna Gain: 2dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	31.04	≧30	Pass
6	2437	55.50	≧30	Pass
11	2462	50.50	≧30	Pass

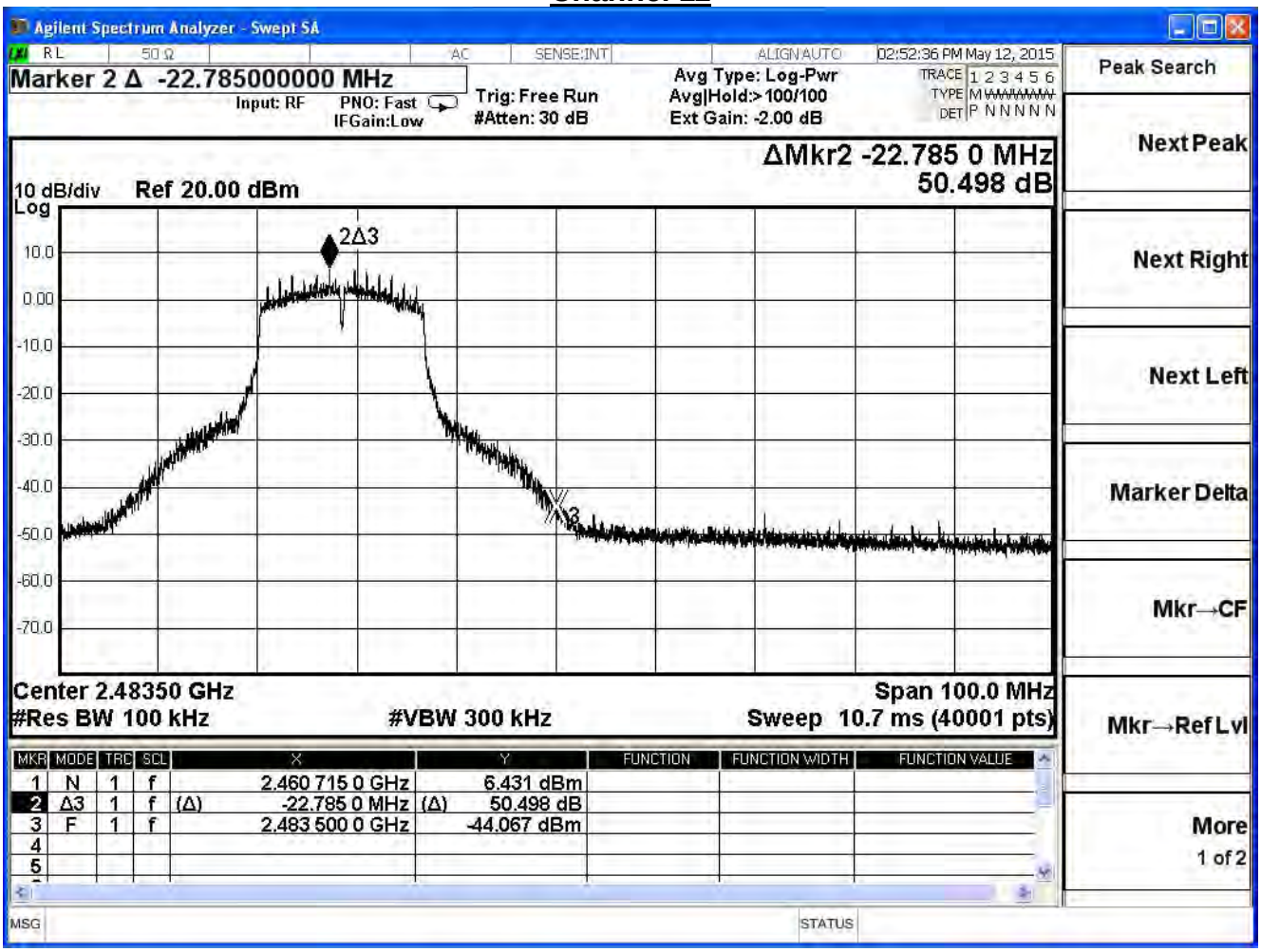
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ 39.055000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:34:33 PM May 12, 2015
ΔMkr2 39.055 0 MHz
55.499 dB
10 dB/div
Ref 20.00 dBm
Log
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.438 220 0 GHz 12.903 dBm
2 Δ3 1 f (Δ) 39.055 0 MHz (Δ) 55.499 dB
3 F 1 f 2.399 165 0 GHz -42.596 dBm
4 Δ5 1 f (Δ) -45.982 5 MHz (Δ) 57.198 dB
5 F 1 f 2.484 202 5 GHz -44.294 dBm
MSG
STATUS

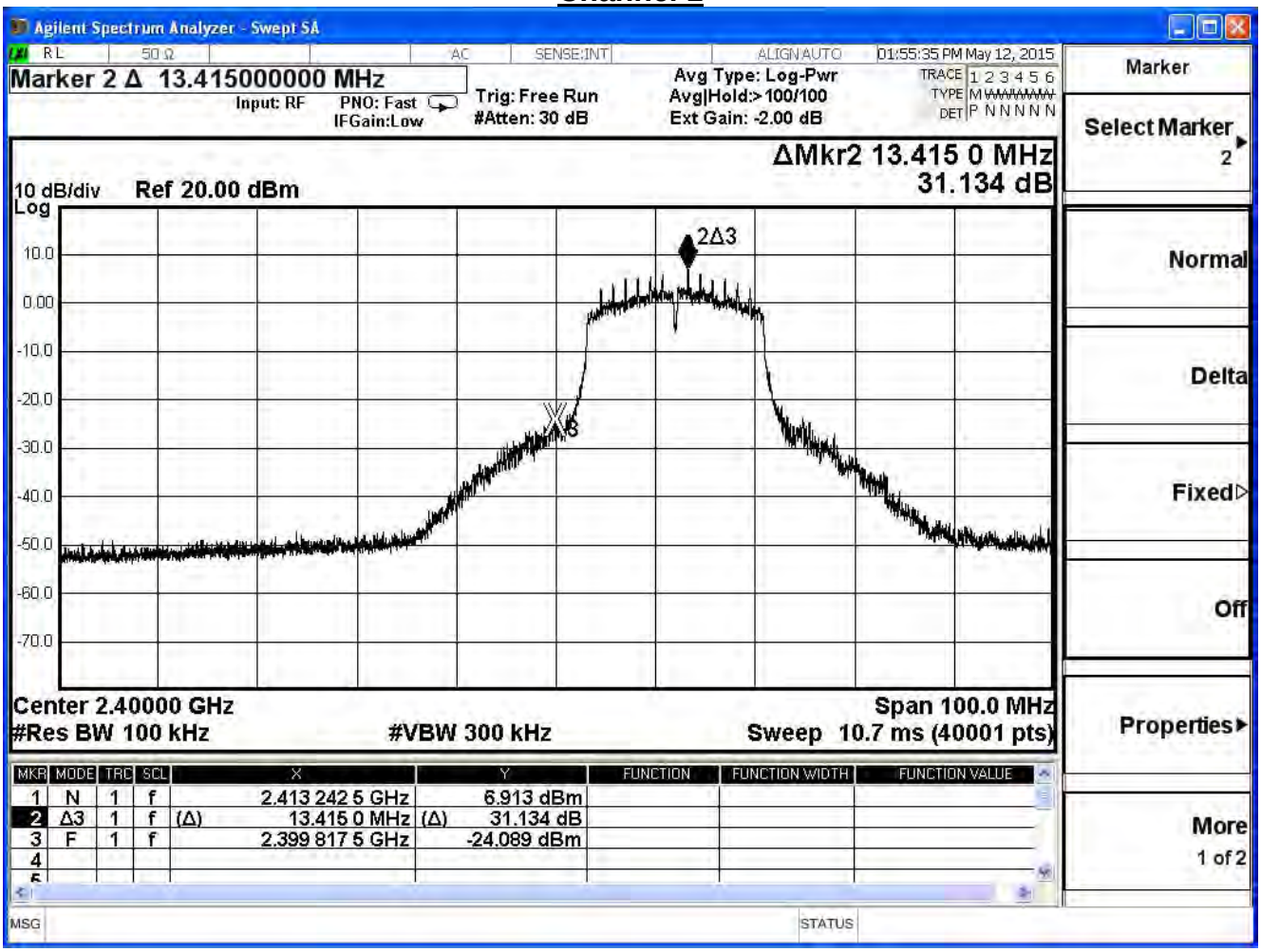
Channel 11


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -22.785000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
02:52:36 PM May 12, 2015
ΔMkr2 -22.785 0 MHz
50.498 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.460 715 0 GHz 6.431 dBm
2 Δ3 1 f (Δ) -22.785 0 MHz (Δ) 50.498 dB
3 F 1 f 2.483 500 0 GHz -44.067 dBm
MSG
STATUS

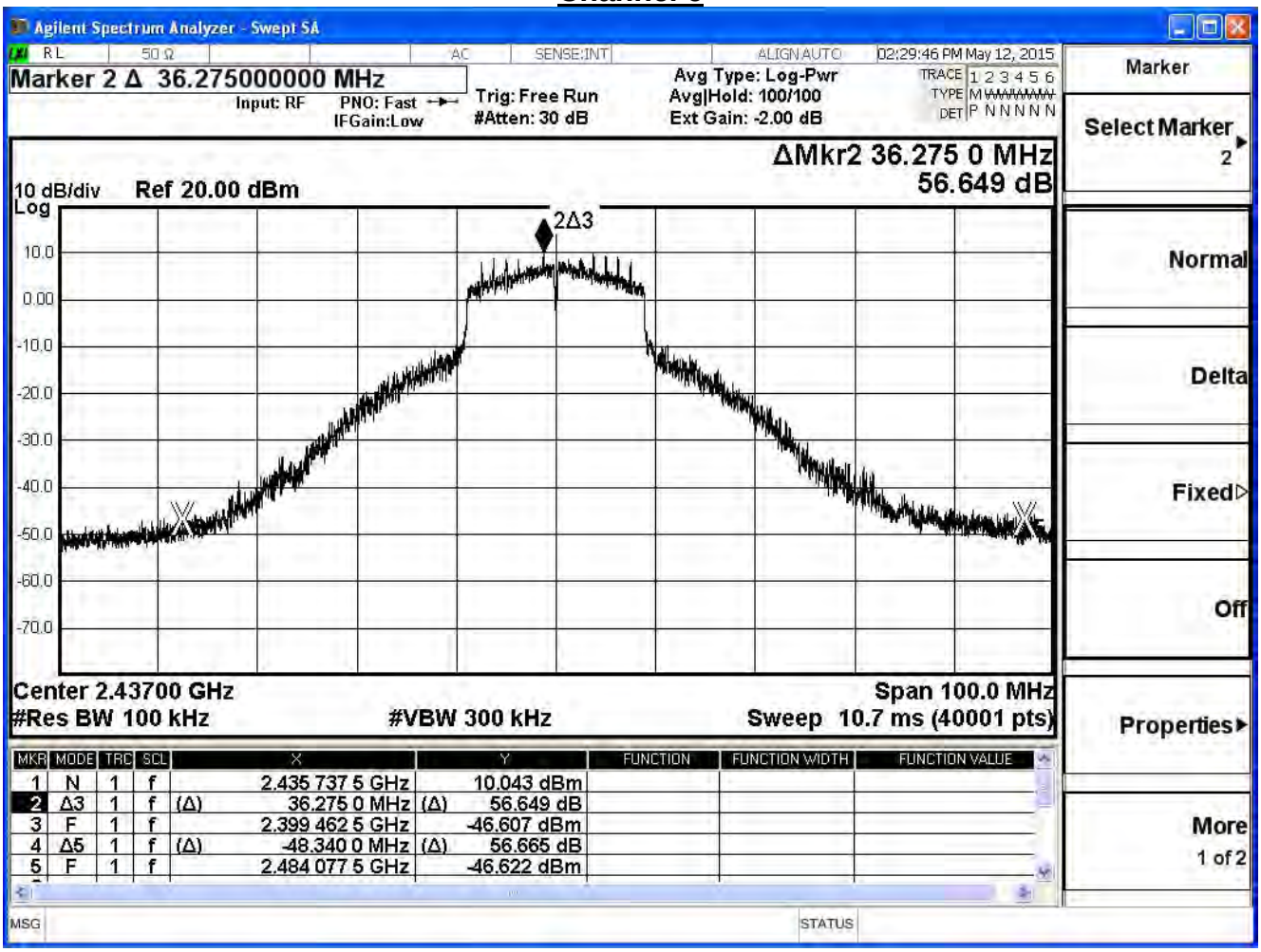
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 0) Antenna Gain: 2dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	31.13	≧30	Pass
6	2437	56.65	≧30	Pass
11	2462	47.42	≧30	Pass

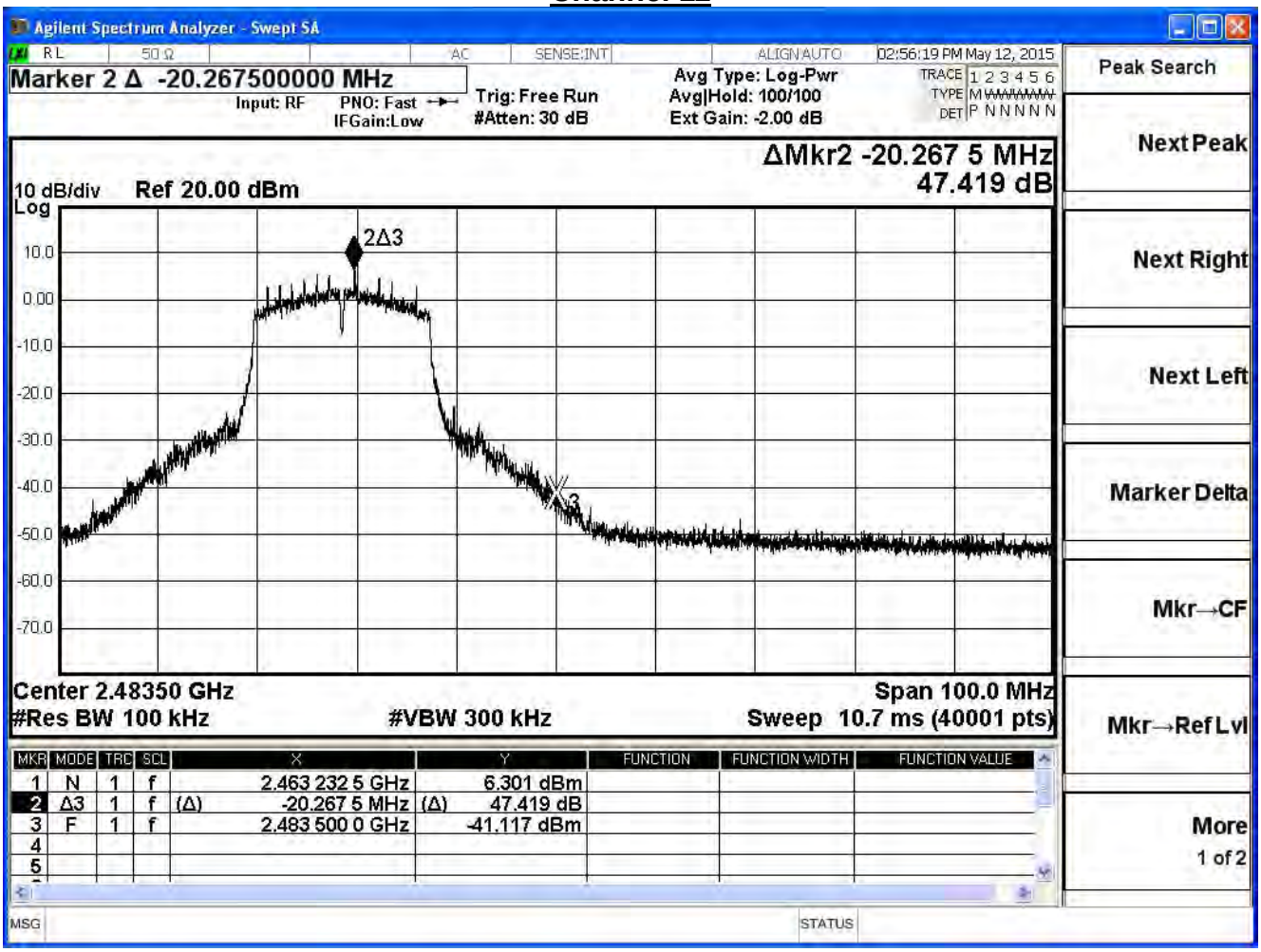
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ 36.275000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:29:46 PM May 12, 2015
ΔMkr2 36.275 0 MHz
56.649 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.435 737 5 GHz 10.043 dBm
2 Δ3 1 f (Δ) 36.275 0 MHz (Δ) 56.649 dB
3 F 1 f 2.399 462 5 GHz -46.607 dBm
4 Δ5 1 f (Δ) -48.340 0 MHz (Δ) 56.665 dB
5 F 1 f 2.484 077 5 GHz -46.622 dBm
MSG
STATUS

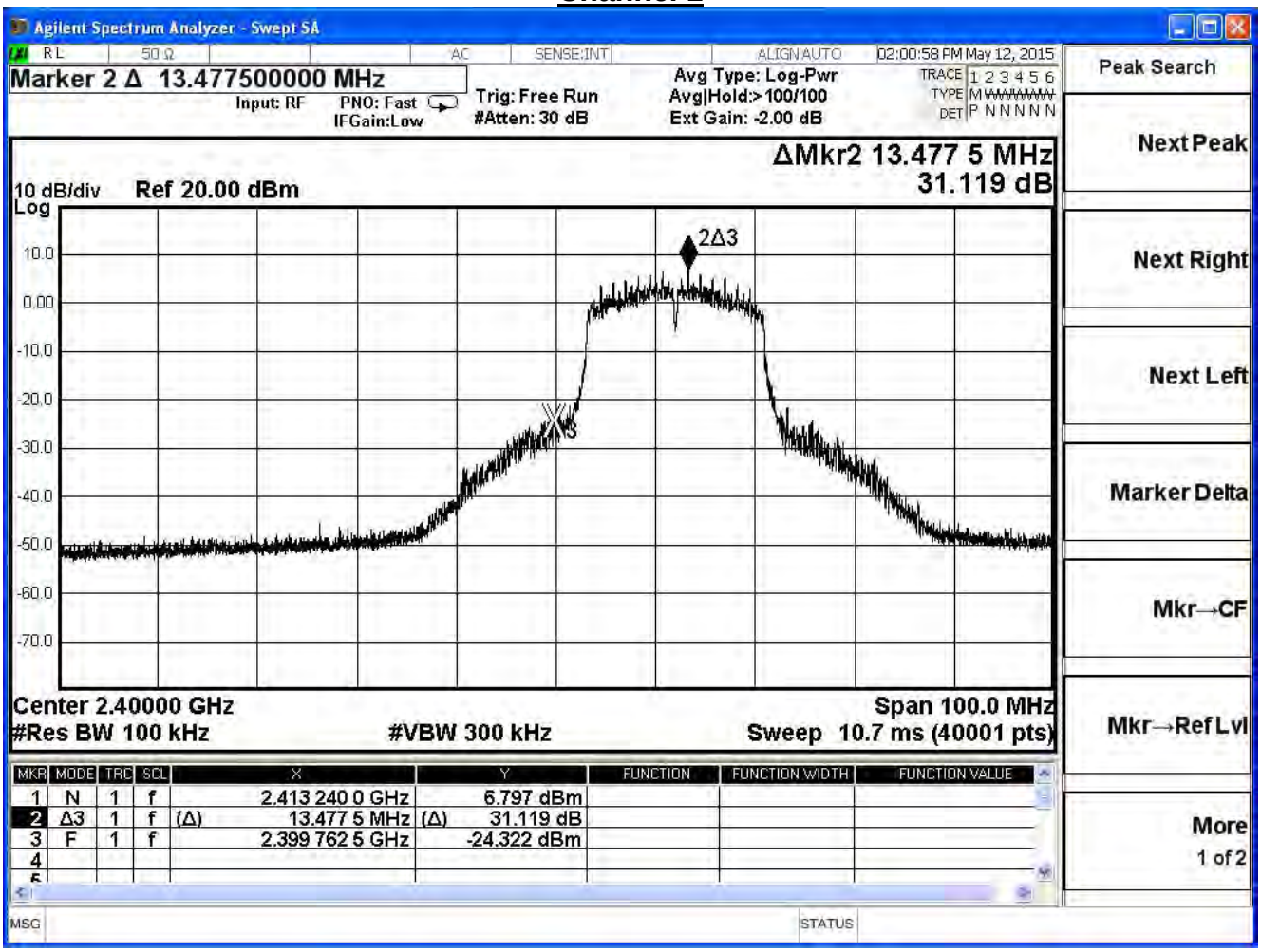
Channel 11


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -20.267500000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:56:19 PM May 12, 2015
ΔMkr2 -20.267 5 MHz
47.419 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.463 232 5 GHz 6.301 dBm
2 Δ3 1 f (Δ) -20.267 5 MHz (Δ) 47.419 dB
3 F 1 f 2.483 500 0 GHz -41.117 dBm
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

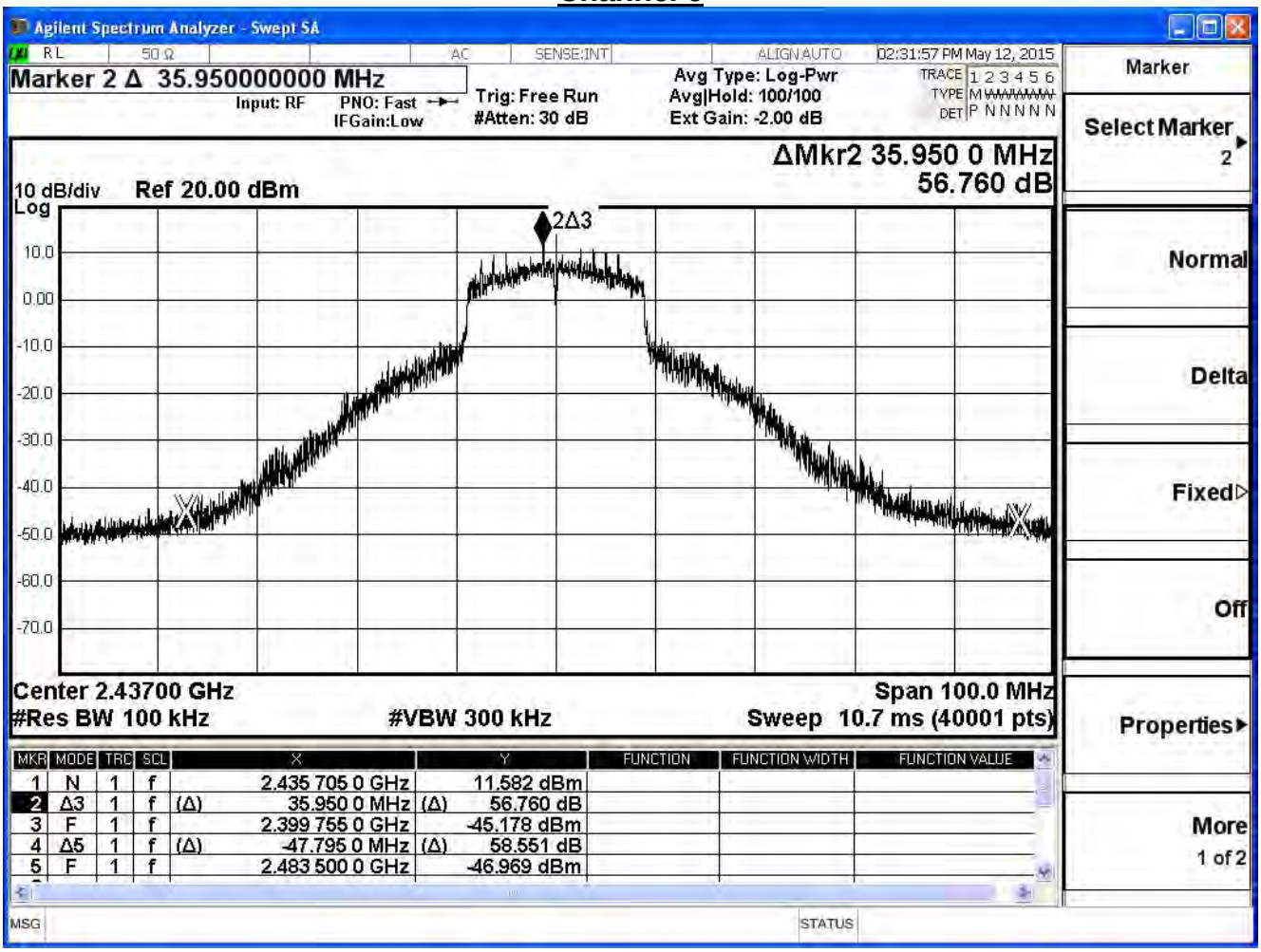
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 1) Antenna Gain: 2dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	31.12	≧30	Pass
6	2437	56.76	≧30	Pass
11	2462	45.72	≧30	Pass

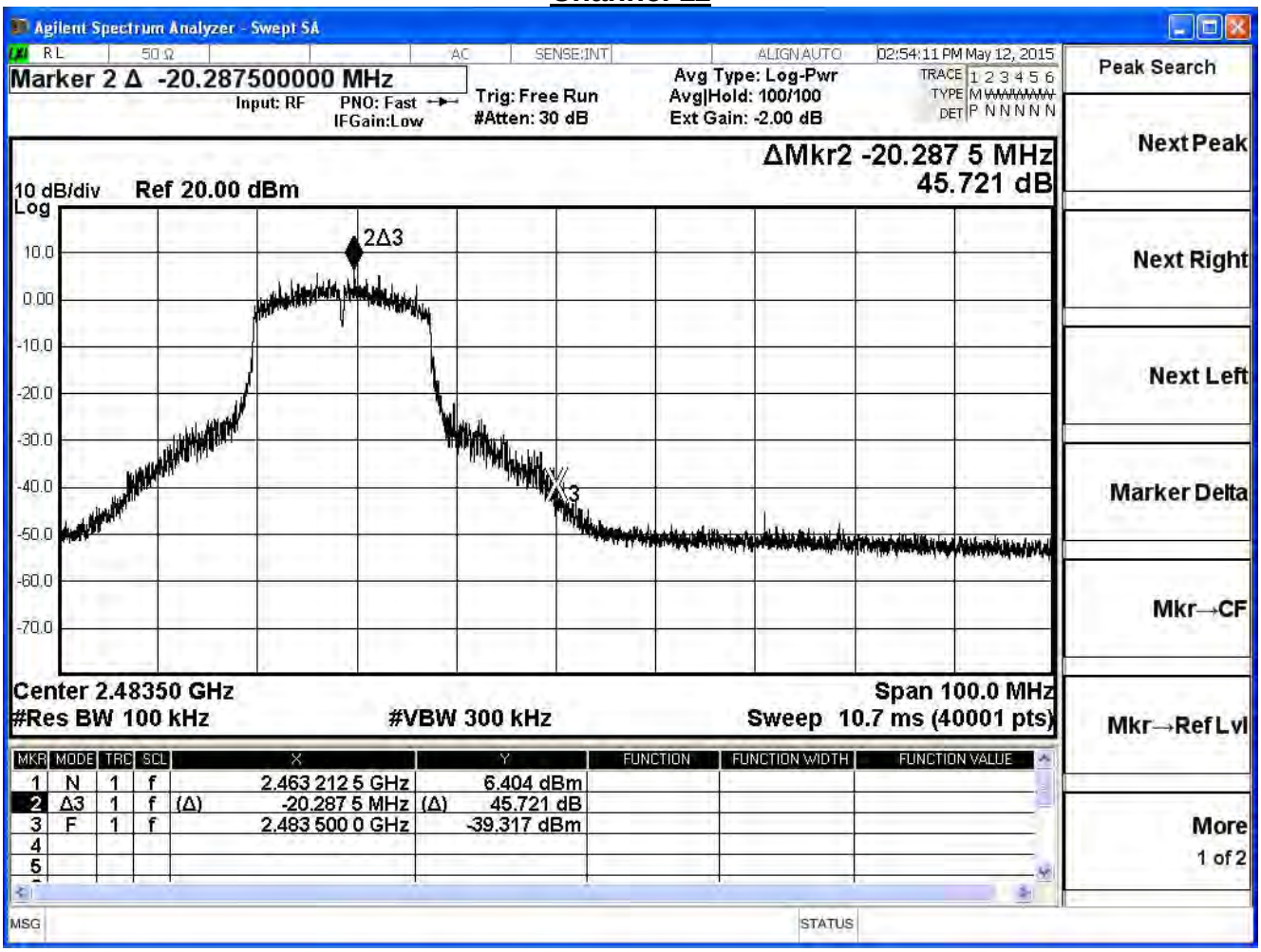
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ 35.950000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:31:57 PM May 12, 2015
ΔMkr2 35.950 0 MHz
56.760 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.435 705 0 GHz 11.582 dBm
2 Δ3 1 f (Δ) 35.950 0 MHz (Δ) 56.760 dB
3 F 1 f 2.399 755 0 GHz -45.178 dBm
4 Δ5 1 f (Δ) -47.795 0 MHz (Δ) 58.551 dB
5 F 1 f 2.483 500 0 GHz -46.969 dBm
MSG
STATUS

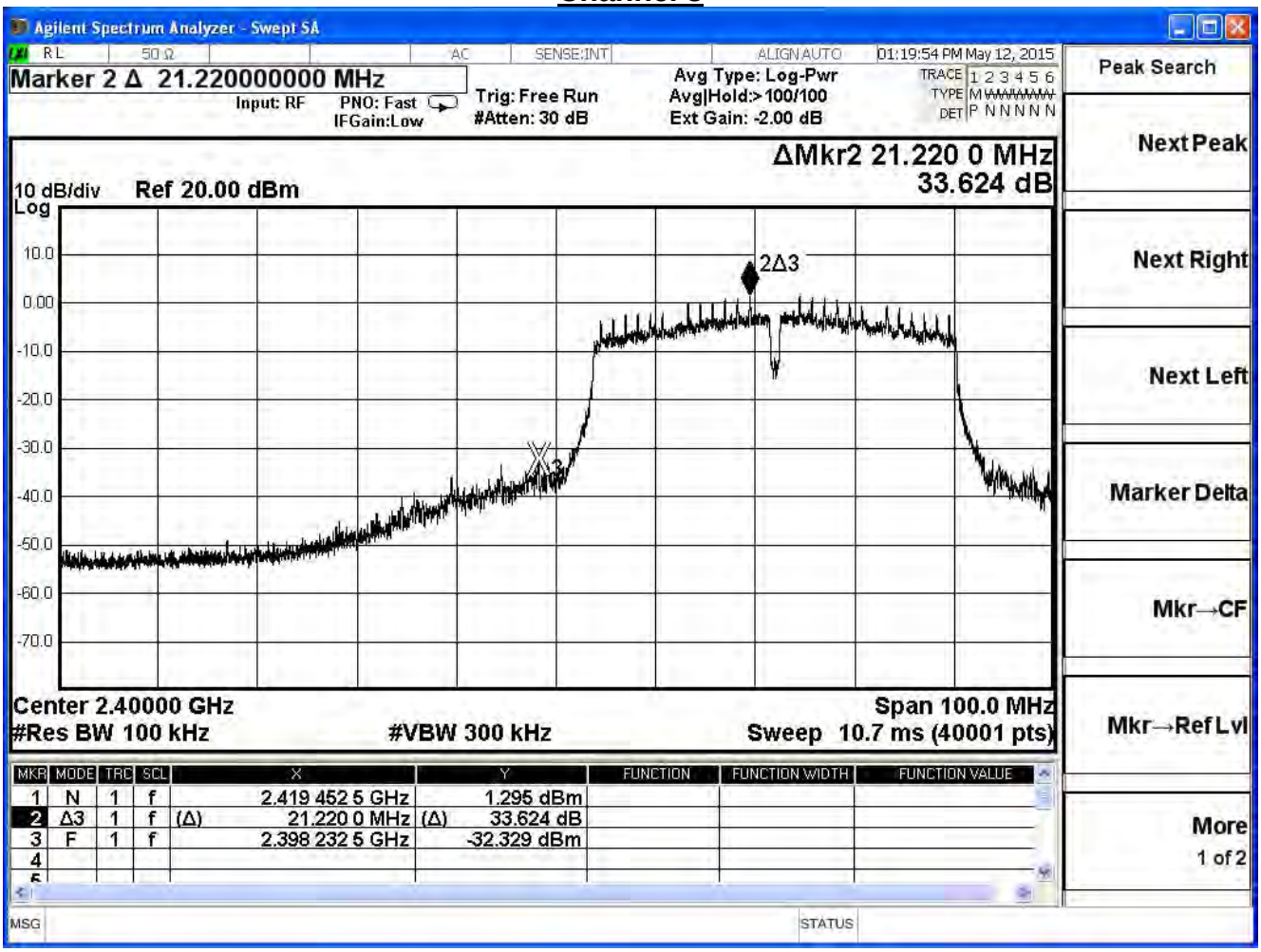
Channel 11


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -20.287500000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:54:11 PM May 12, 2015
ΔMkr2 -20.287 5 MHz
45.721 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.463 212 5 GHz 6.404 dBm
2 Δ3 1 f (Δ) -20.287 5 MHz (Δ) 45.721 dB
3 F 1 f 2.483 500 0 GHz -39.317 dBm
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

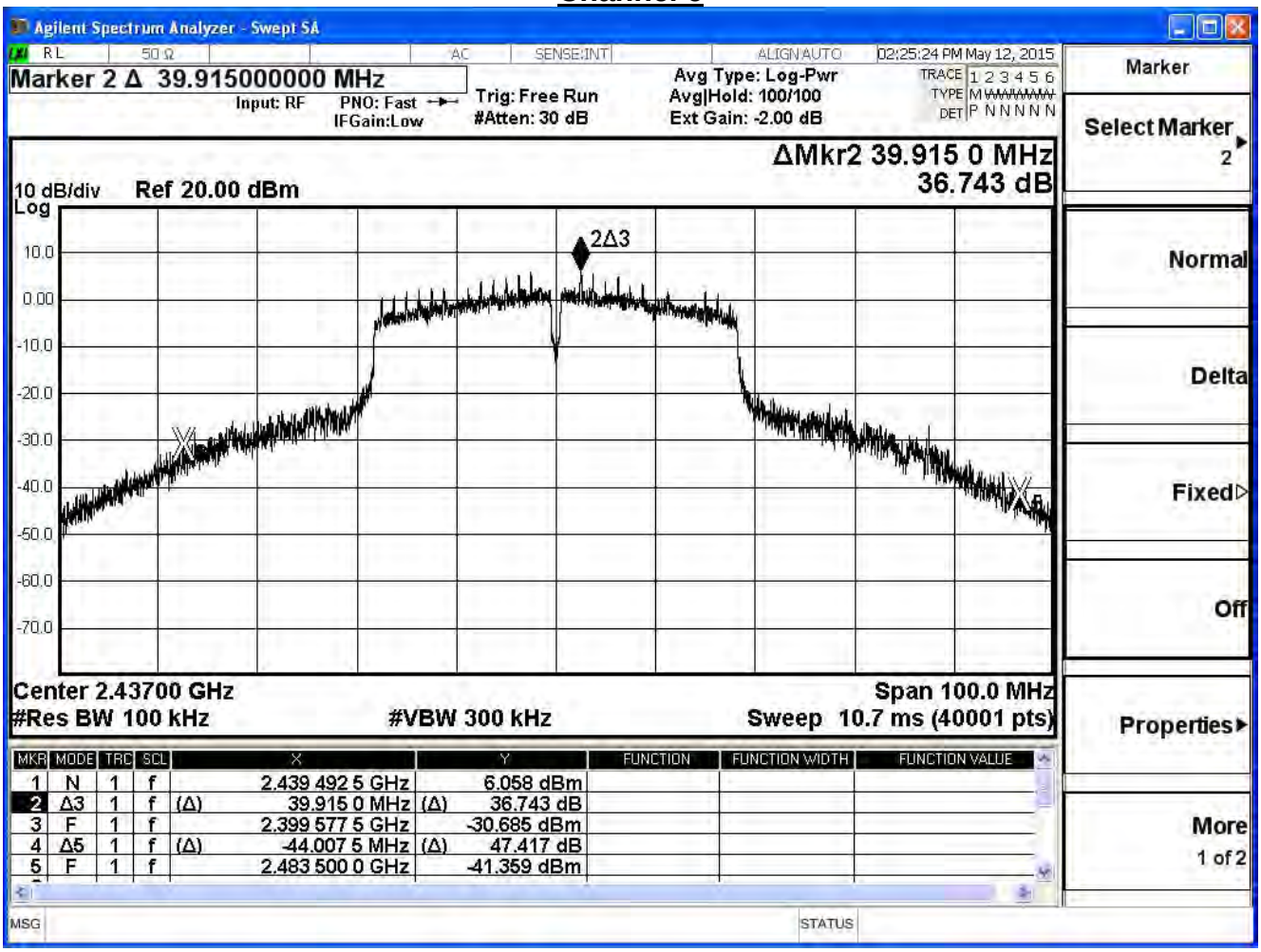
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 0) Antenna Gain: 2dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	33.62	≧30	Pass
6	2437	36.74	≧30	Pass
9	2452	39.29	≧30	Pass

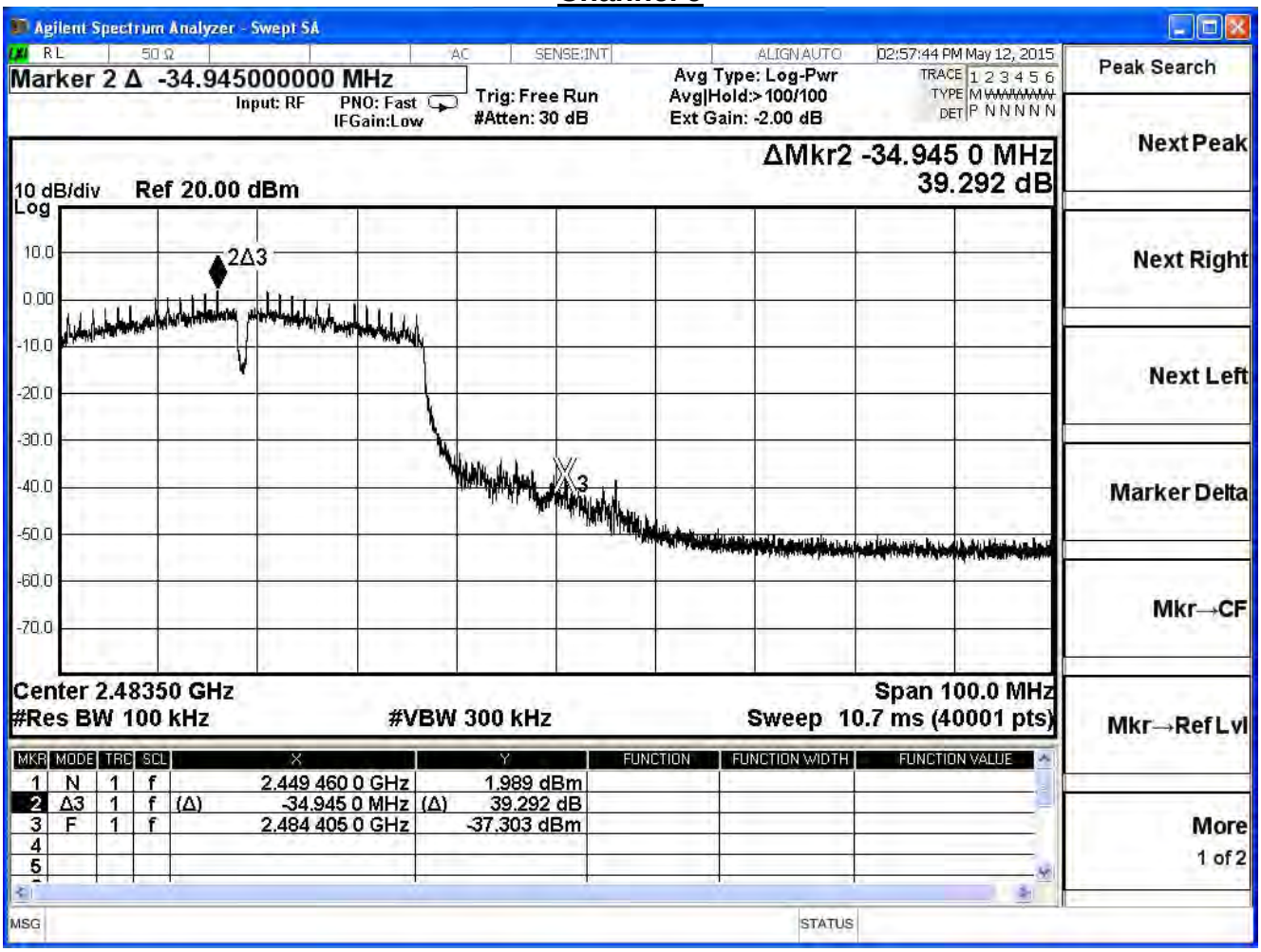
Channel 3



Channel 6


Agilent Spectrum Analyzer - Swept SA
RL 50 Ω AC SENSE:INT ALIGN AUTO 02:25:24 PM May 12, 2015
Marker 2 Δ 39.915000000 MHz
Input: RF PNO: Fast IFGain:Low
Trig: Free Run #Atten: 30 dB
Avg Type: Log-Pwr Avg|Hold: 100/100 Ext Gain: -2.00 dB
TRACE 1 2 3 4 5 6 TYPE M DET P N N N N N
ΔMkr2 39.915 0 MHz 36.743 dB
10 dB/div Ref 20.00 dBm
Log
10.0 0.00 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.439 492 5 GHz 6.058 dBm
2 Δ3 1 f (Δ) 39.915 0 MHz (Δ) 36.743 dB
3 F 1 f 2.399 577 5 GHz -30.685 dBm
4 Δ5 1 f (Δ) -44.007 5 MHz (Δ) 47.417 dB
5 F 1 f 2.483 500 0 GHz -41.359 dBm
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MSG
STATUS

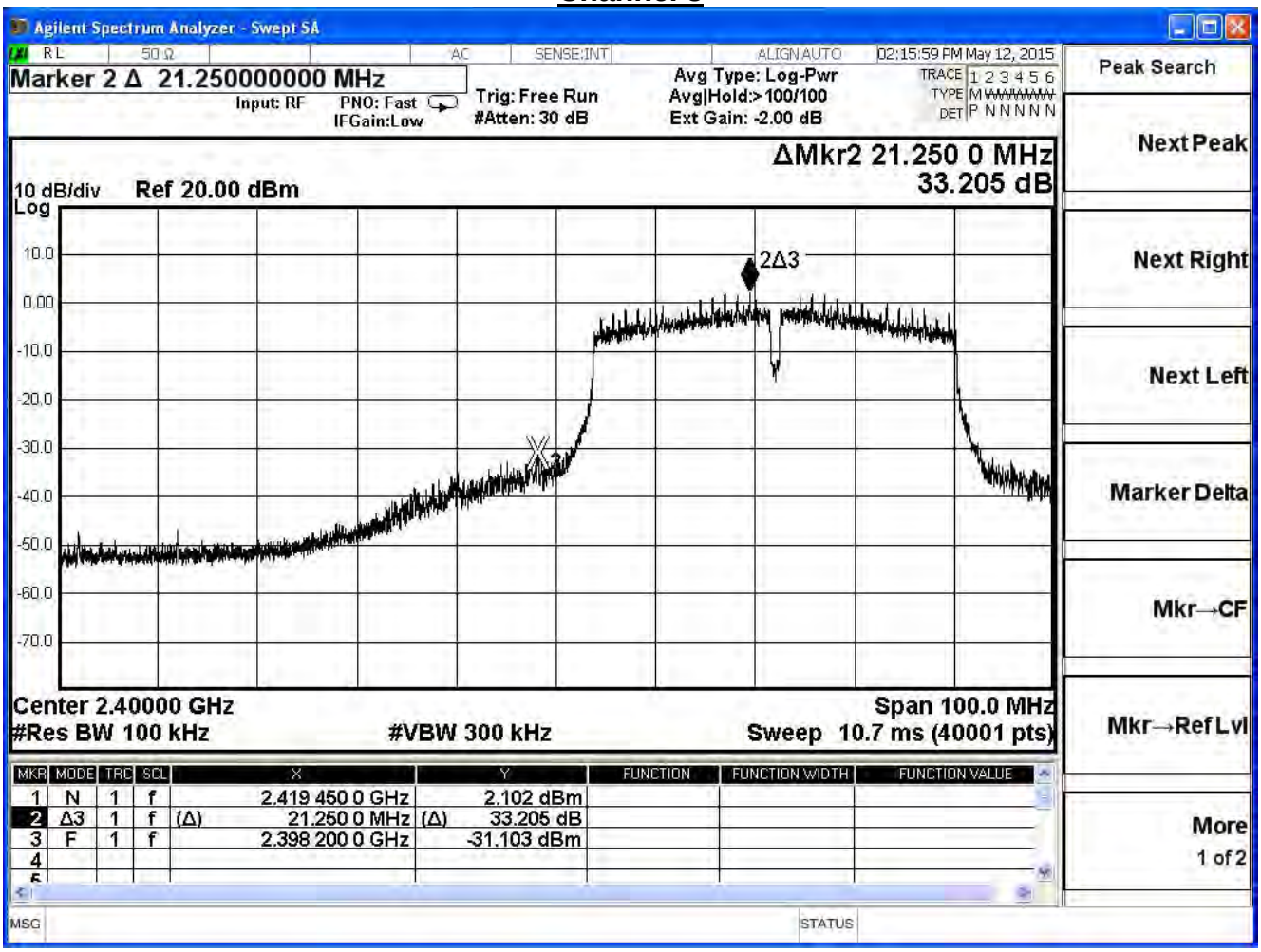
Channel 9


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -34.945000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -2.00 dB
02:57:44 PM May 12, 2015
ΔMkr2 -34.945 0 MHz
39.292 dB
10 dB/div
Ref 20.00 dBm
Log
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
1 N 1 f 2.449 460 0 GHz 1.989 dBm
2 Δ3 1 f (Δ) -34.945 0 MHz (Δ) 39.292 dB
3 F 1 f 2.484 405 0 GHz -37.303 dBm

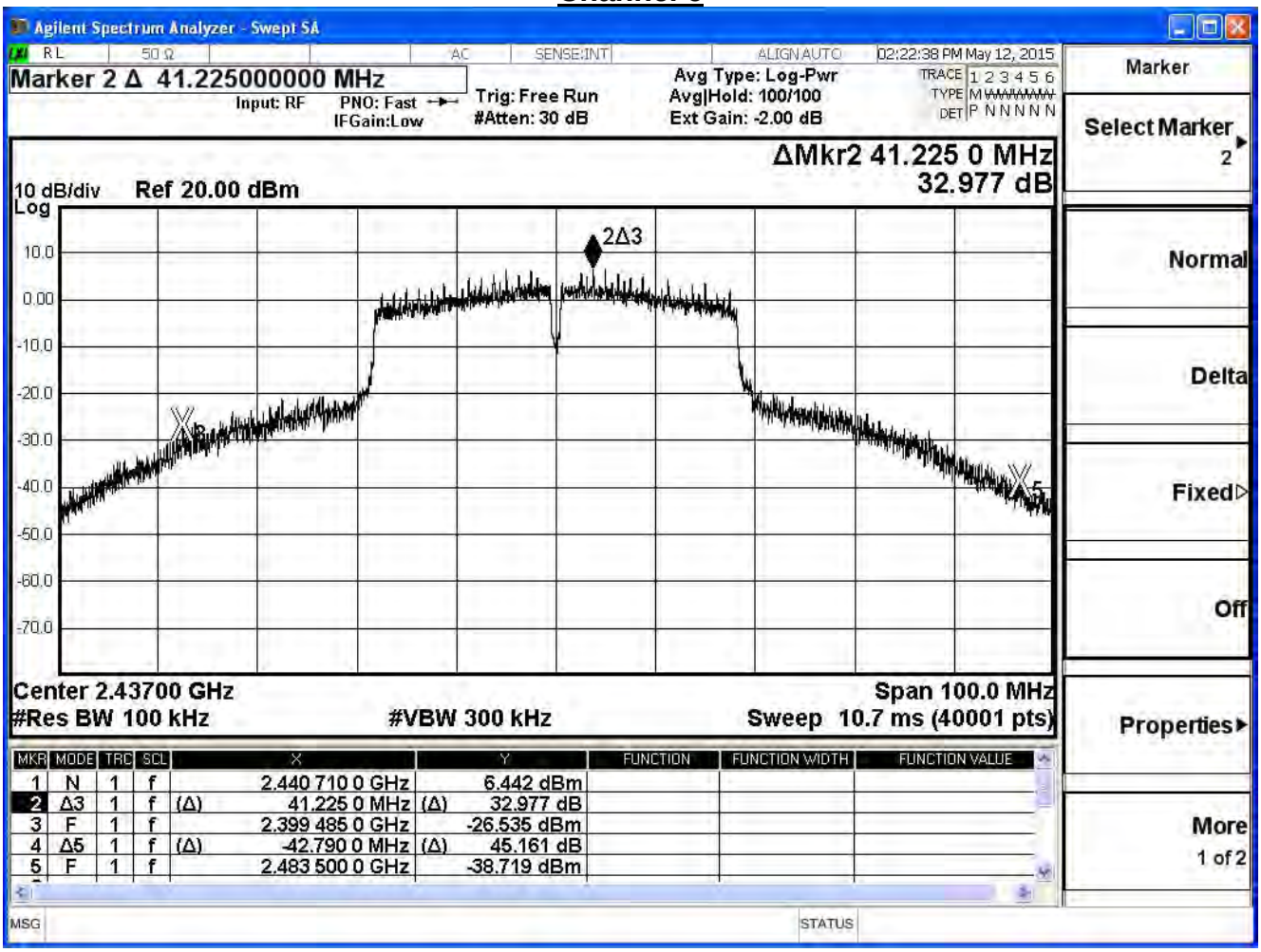
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/12	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 1) Antenna Gain: 2dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	33.21	≧30	Pass
6	2437	32.98	≧30	Pass
9	2452	43.57	≧30	Pass

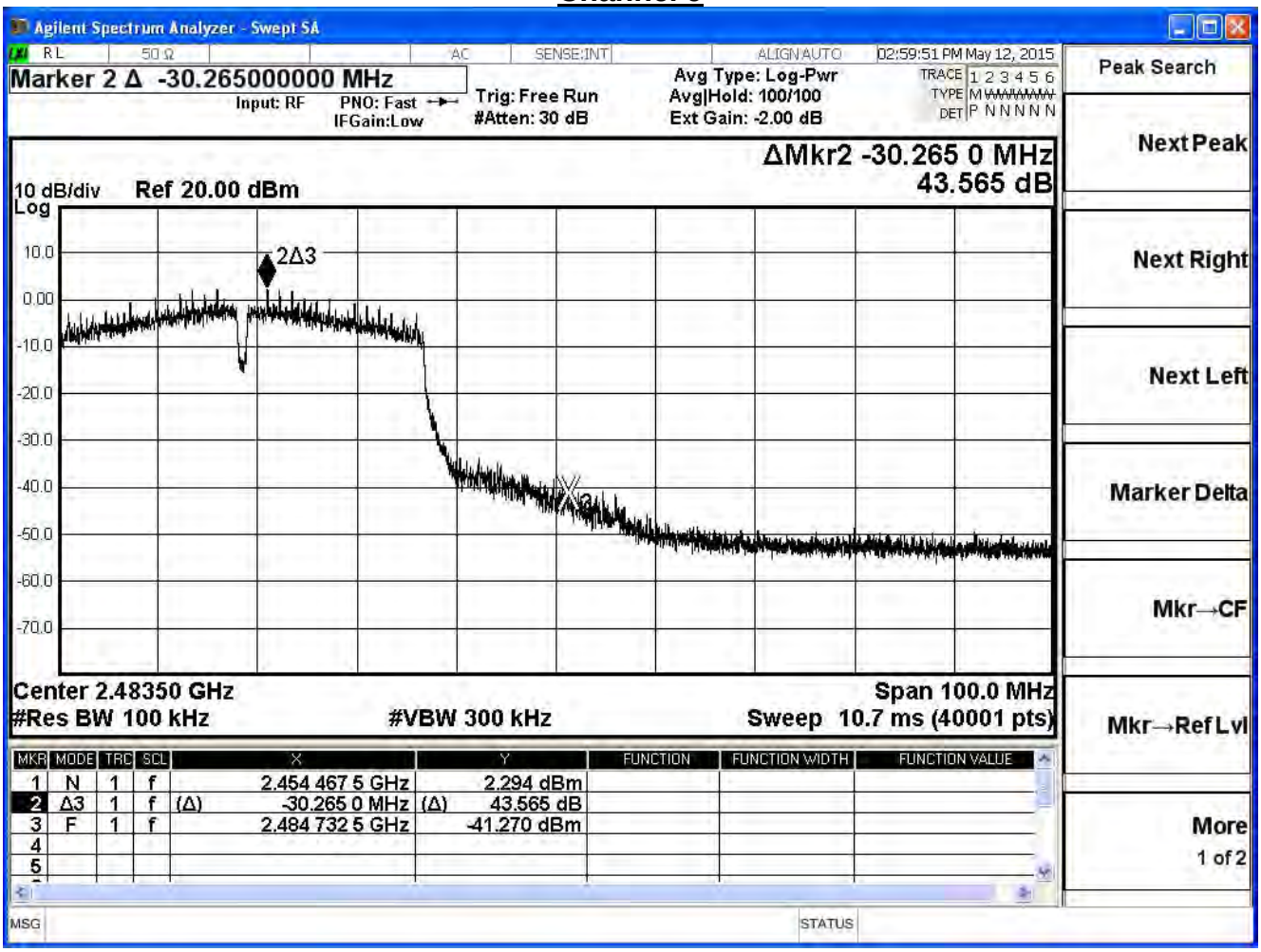
Channel 3



Channel 6

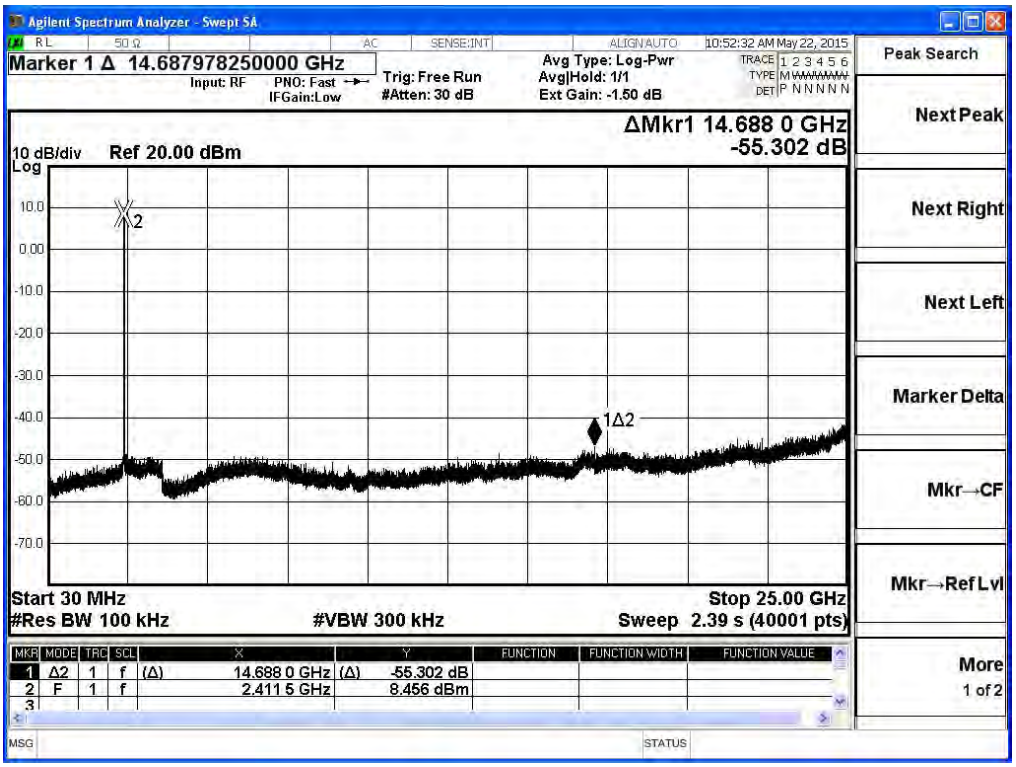

Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ 41.225000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:22:38 PM May 12, 2015
ΔMkr2 41.225 0 MHz
32.977 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.440 710 0 GHz 6.442 dBm
2 Δ3 1 f (Δ) 41.225 0 MHz (Δ) 32.977 dB
3 F 1 f 2.399 485 0 GHz -26.535 dBm
4 Δ5 1 f (Δ) -42.790 0 MHz (Δ) 45.161 dB
5 F 1 f 2.483 500 0 GHz -38.719 dBm
MSG
STATUS

Channel 9

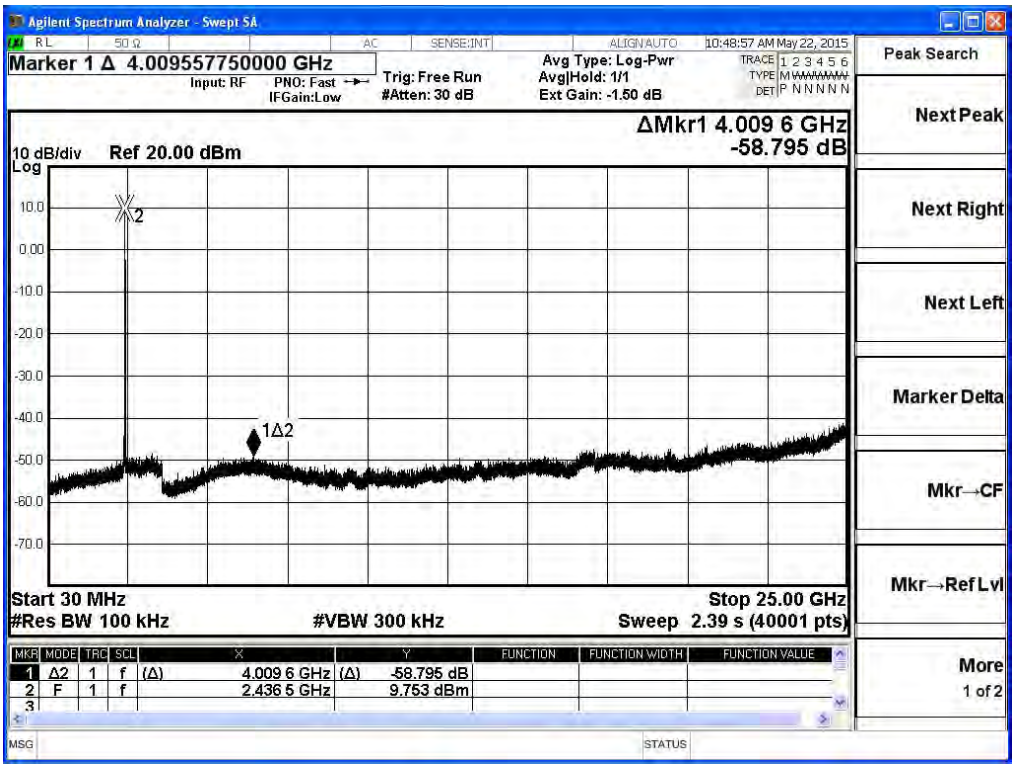

Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -30.265000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -2.00 dB
02:59:51 PM May 12, 2015
ΔMkr2 -30.265 0 MHz
43.565 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.454 467 5 GHz 2.294 dBm
2 Δ3 1 f (Δ) -30.265 0 MHz (Δ) 43.565 dB
3 F 1 f 2.484 732 5 GHz -41.270 dBm
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/22	Test Site	SR7

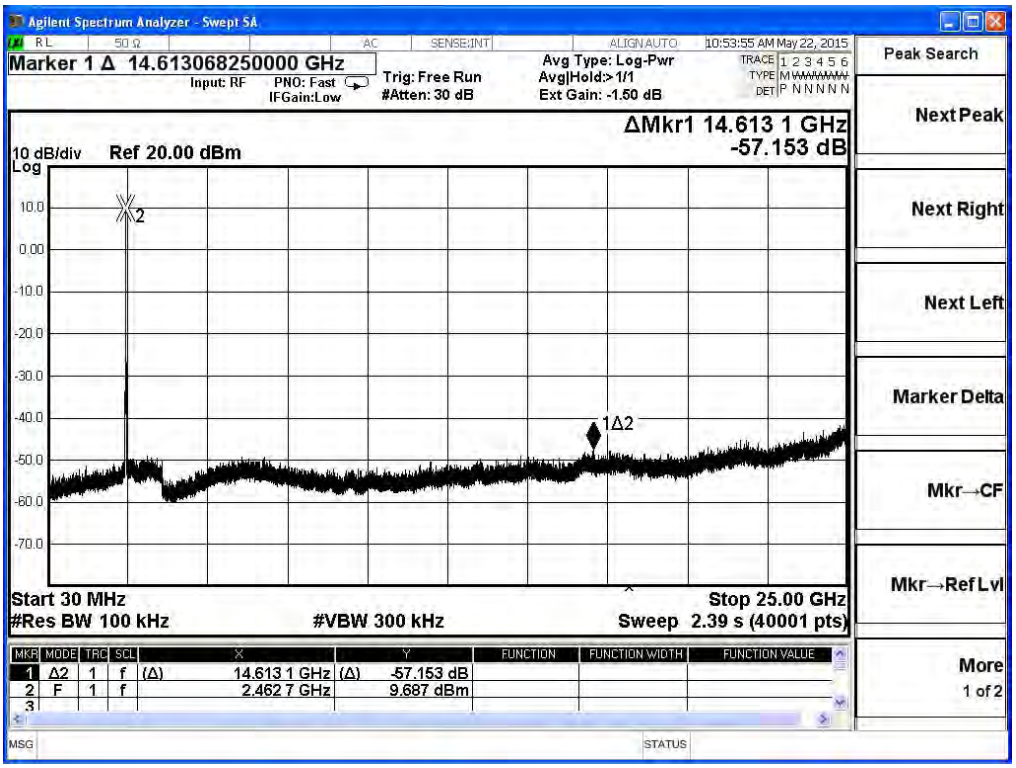
2412MHz (30MHz-25GHz)-802.11b (ANT 0)



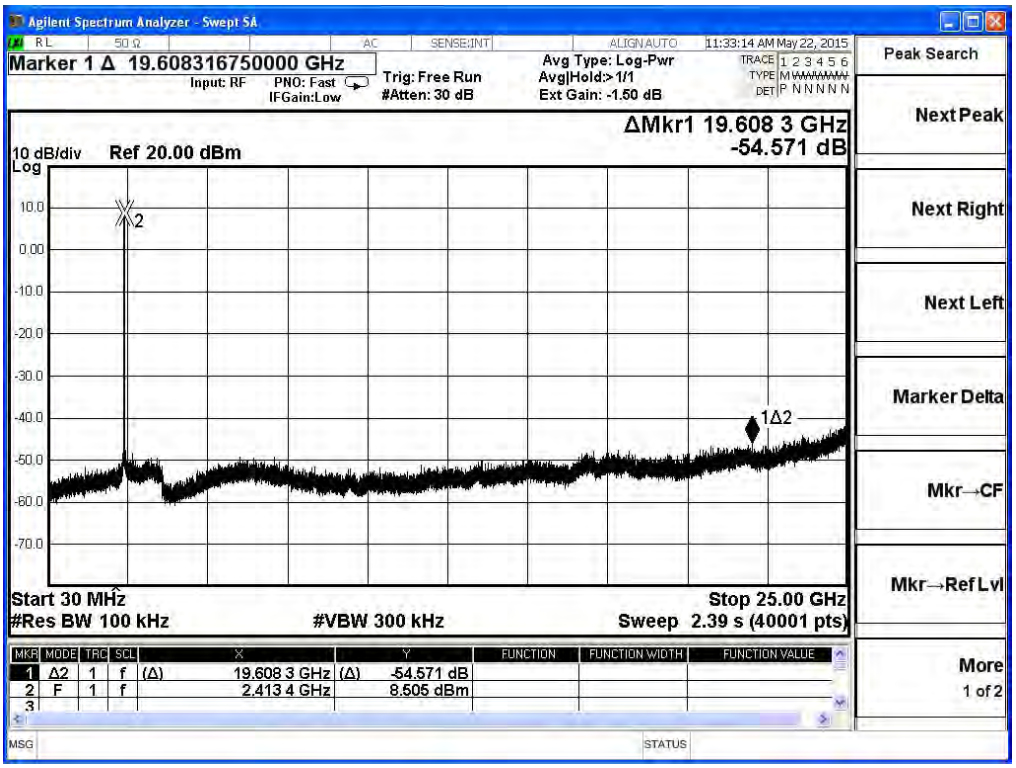
2437MHz (30MHz-25GHz)-802.11b (ANT 0)



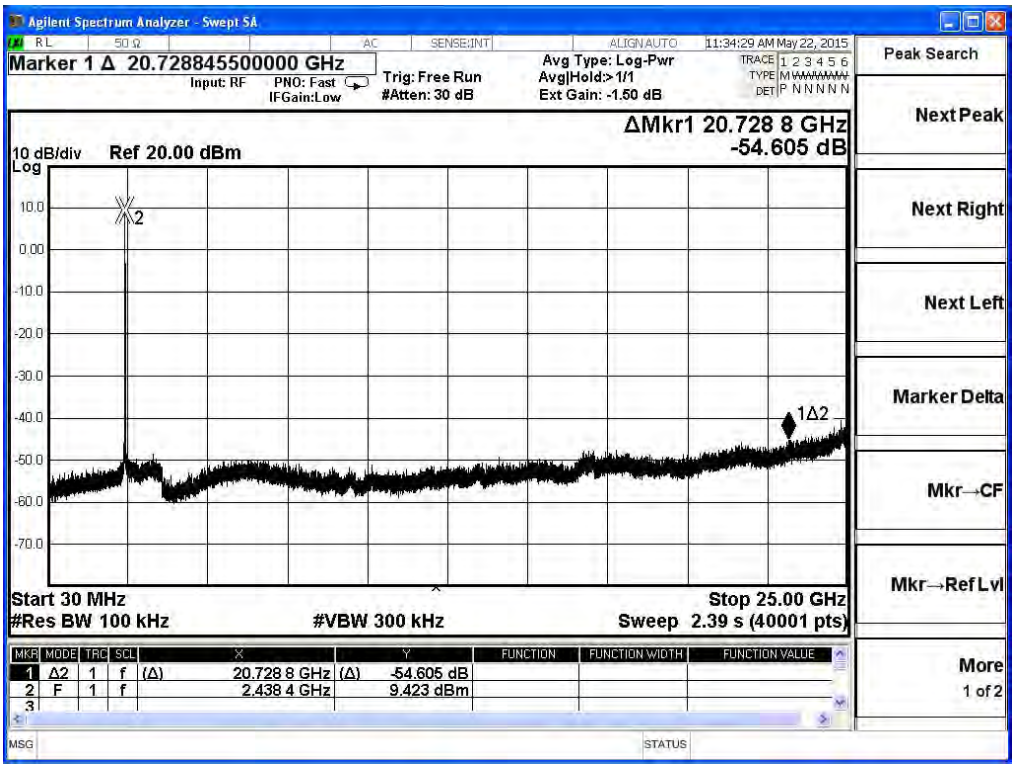
2462MHz (30MHz-25GHz) -802.11b (ANT 0)



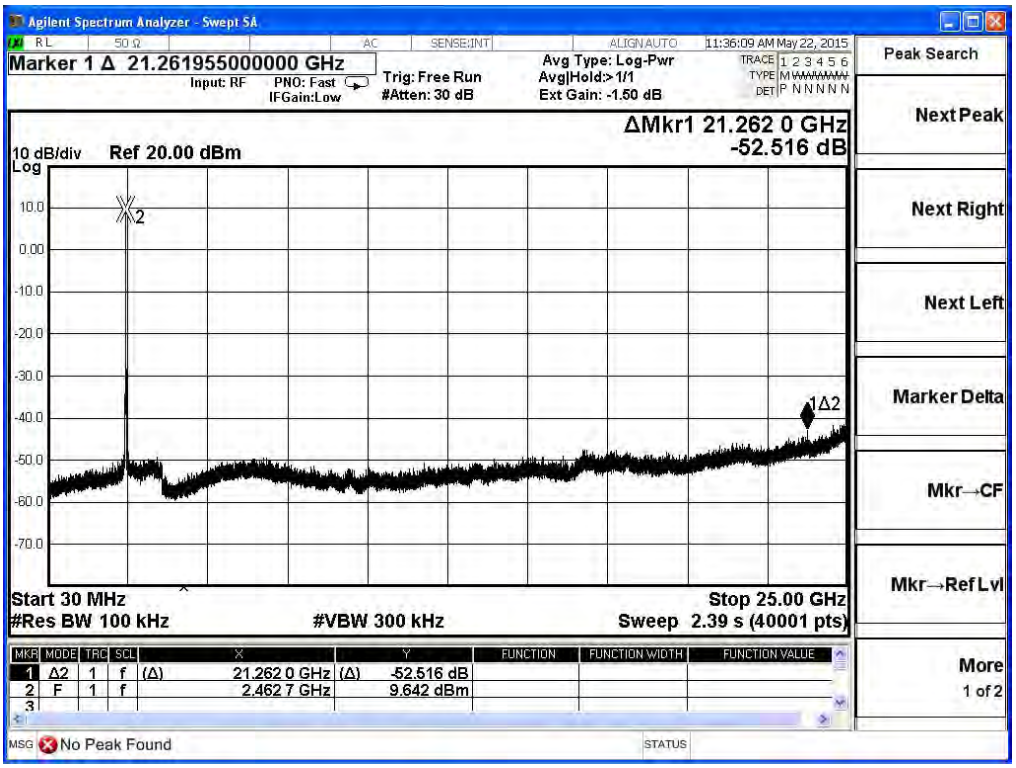
2412MHz (30MHz-25GHz)-802.11b (ANT 1)



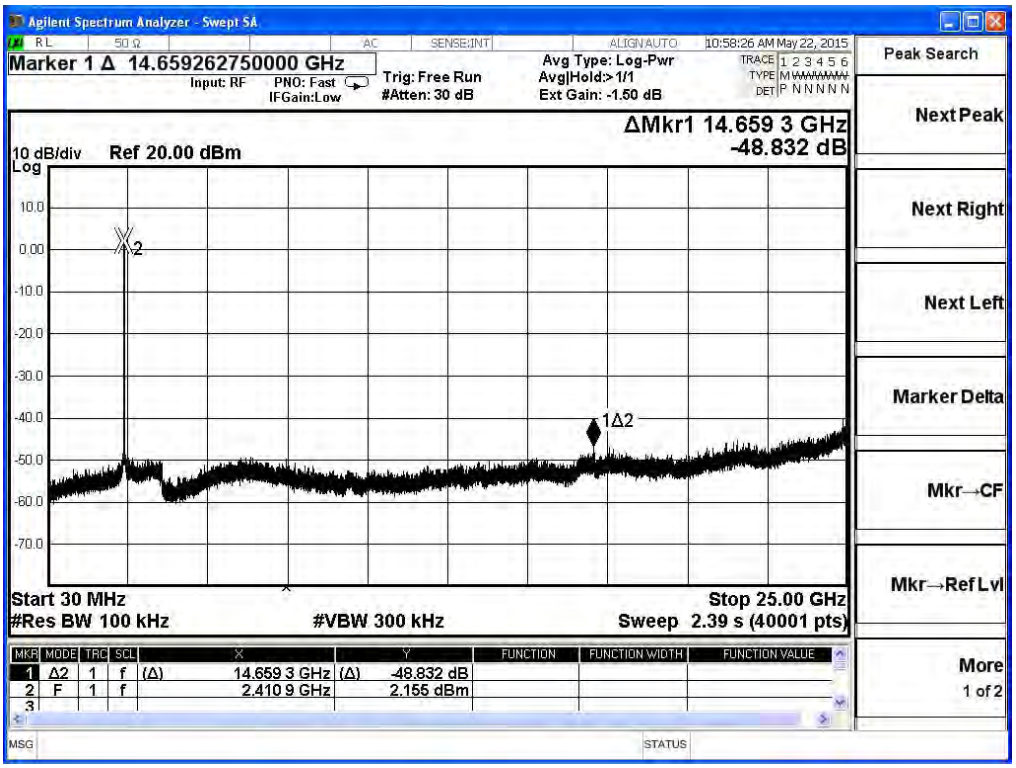
2437MHz (30MHz-25GHz)-802.11b (ANT 1)



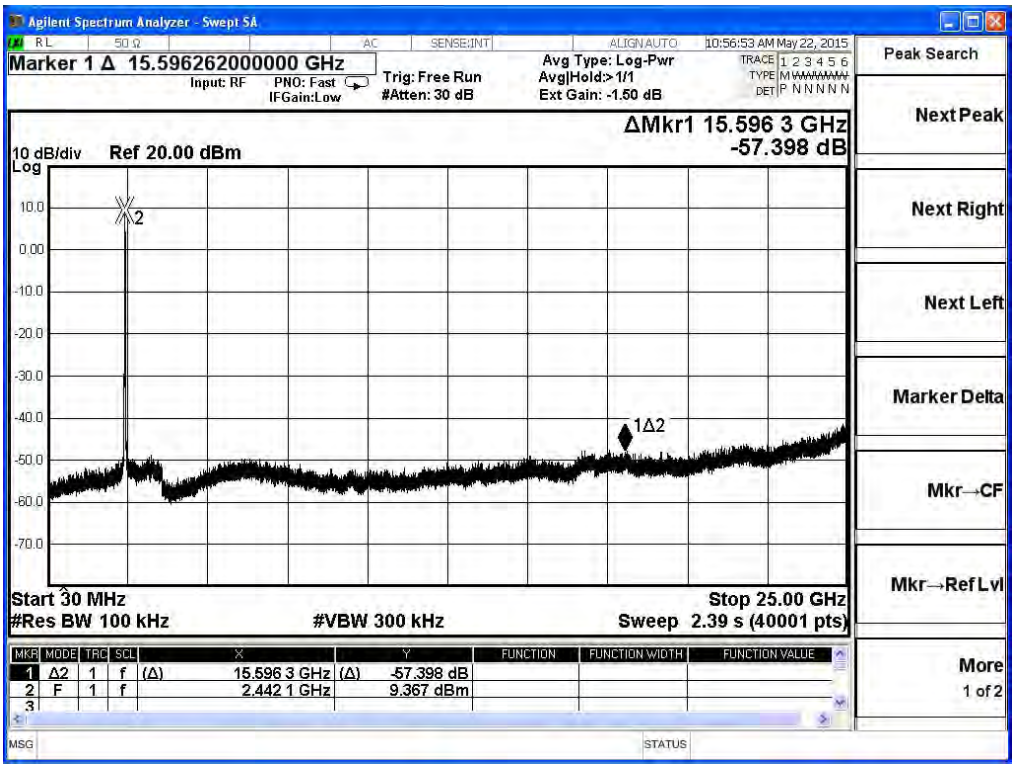
2462MHz (30MHz-25GHz) -802.11b (ANT 1)



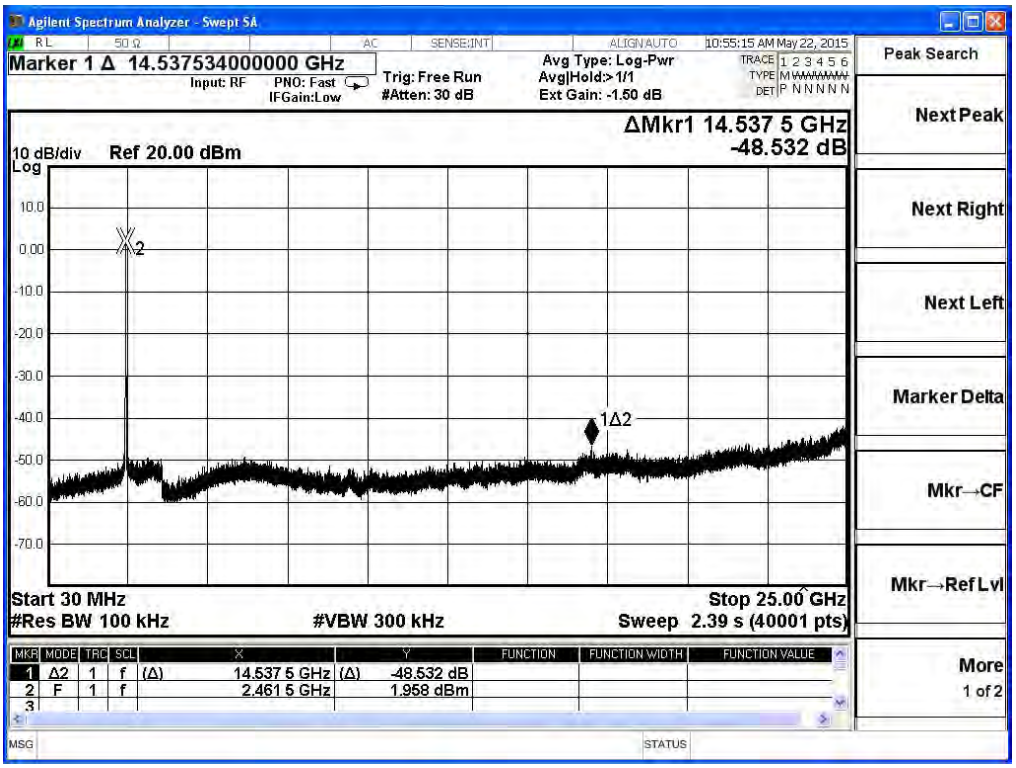
2412MHz (30MHz-25GHz)-802.11g (ANT 0)



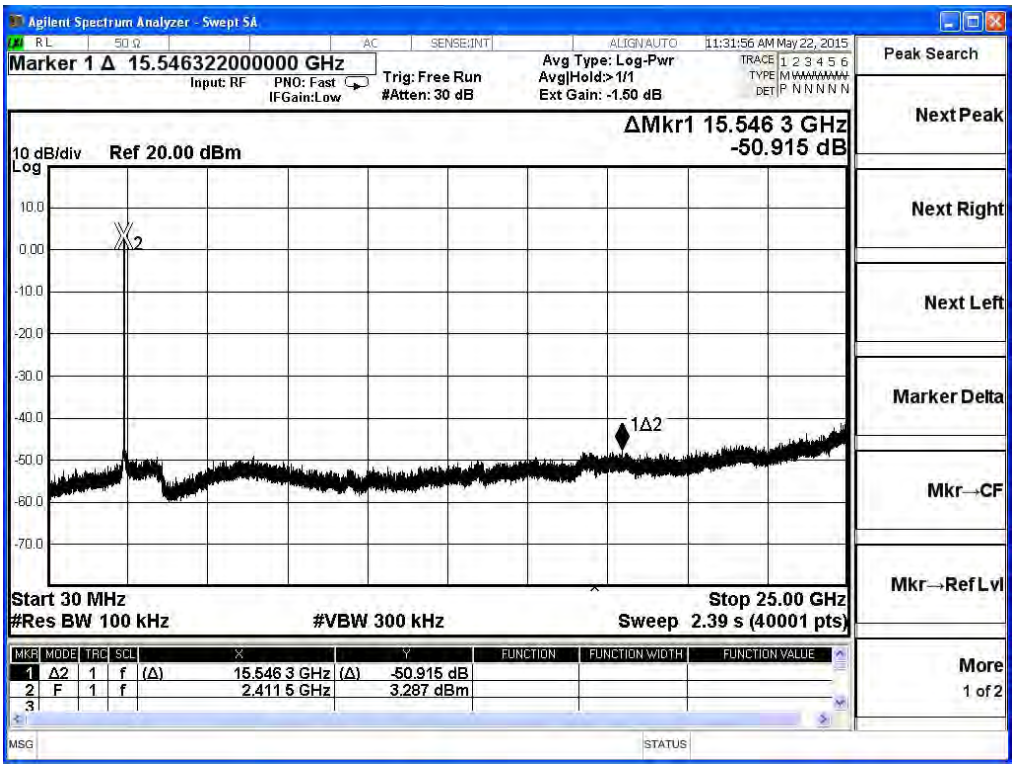
2437MHz (30MHz-25GHz)-802.11g (ANT 0)



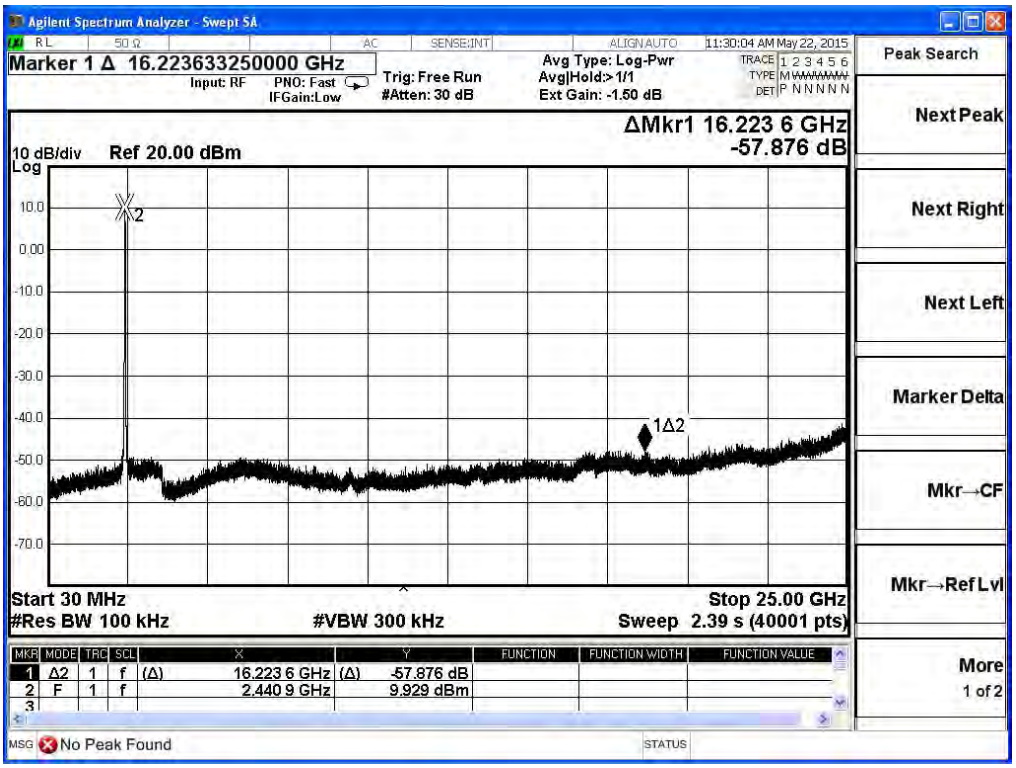
2462MHz (30MHz-25GHz) -802.11g (ANT 0)



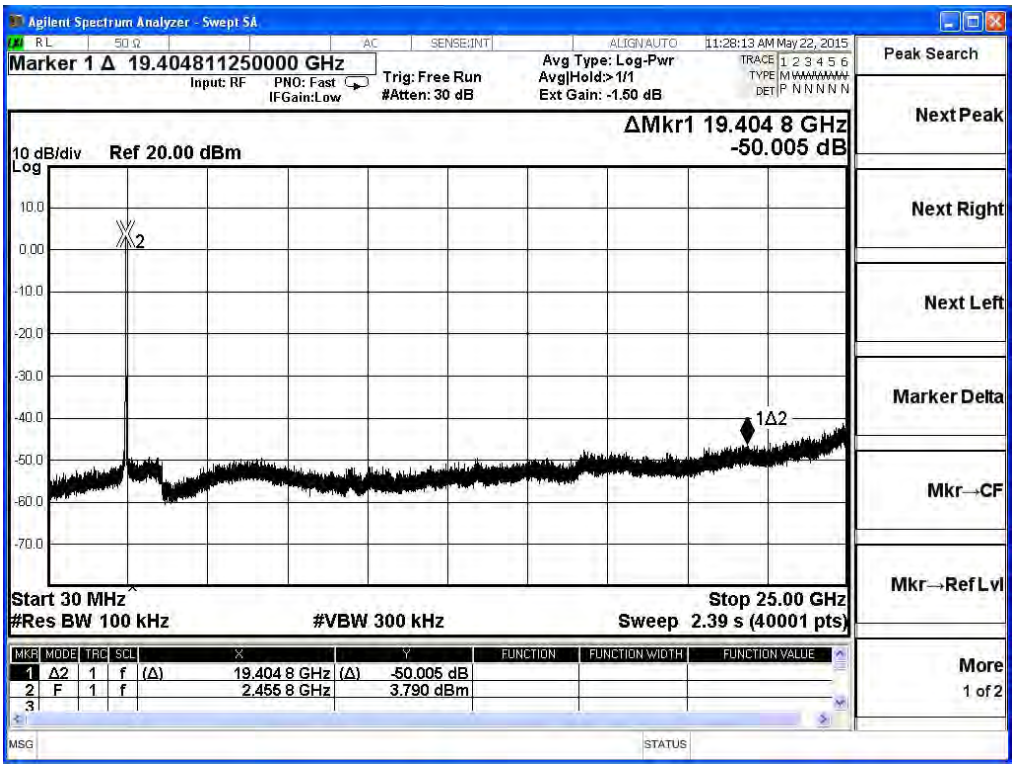
2412MHz (30MHz-25GHz)-802.11g (ANT 1)



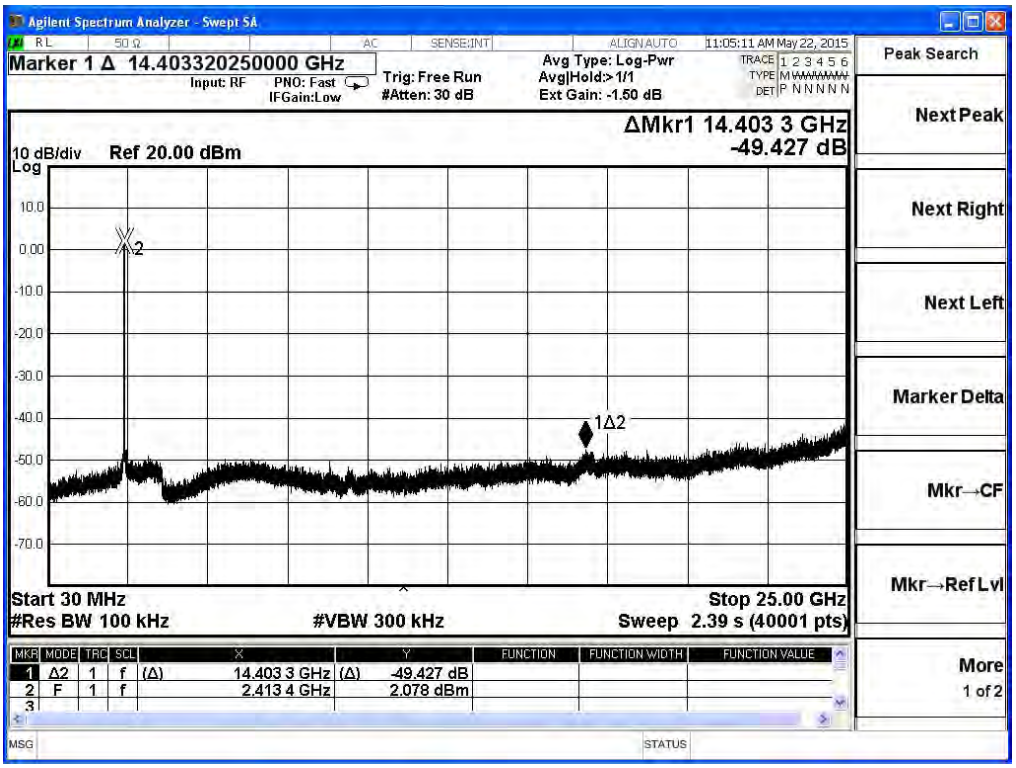
2437MHz (30MHz-25GHz)-802.11g (ANT 1)



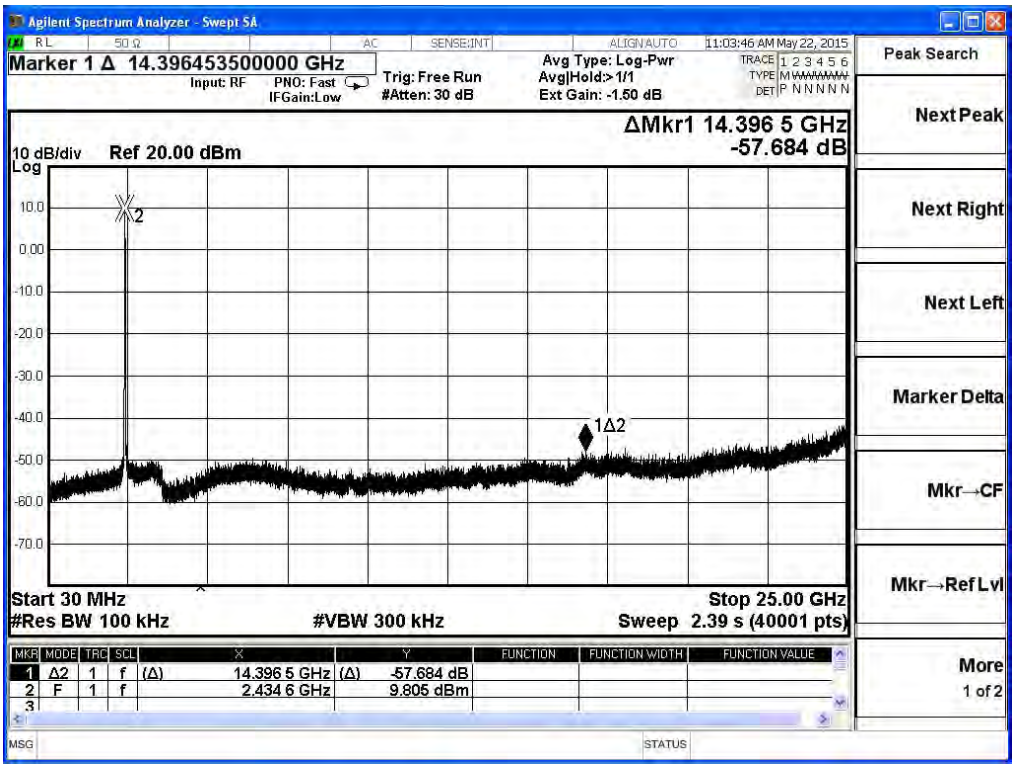
2462MHz (30MHz-25GHz) -802.11g (ANT 1)



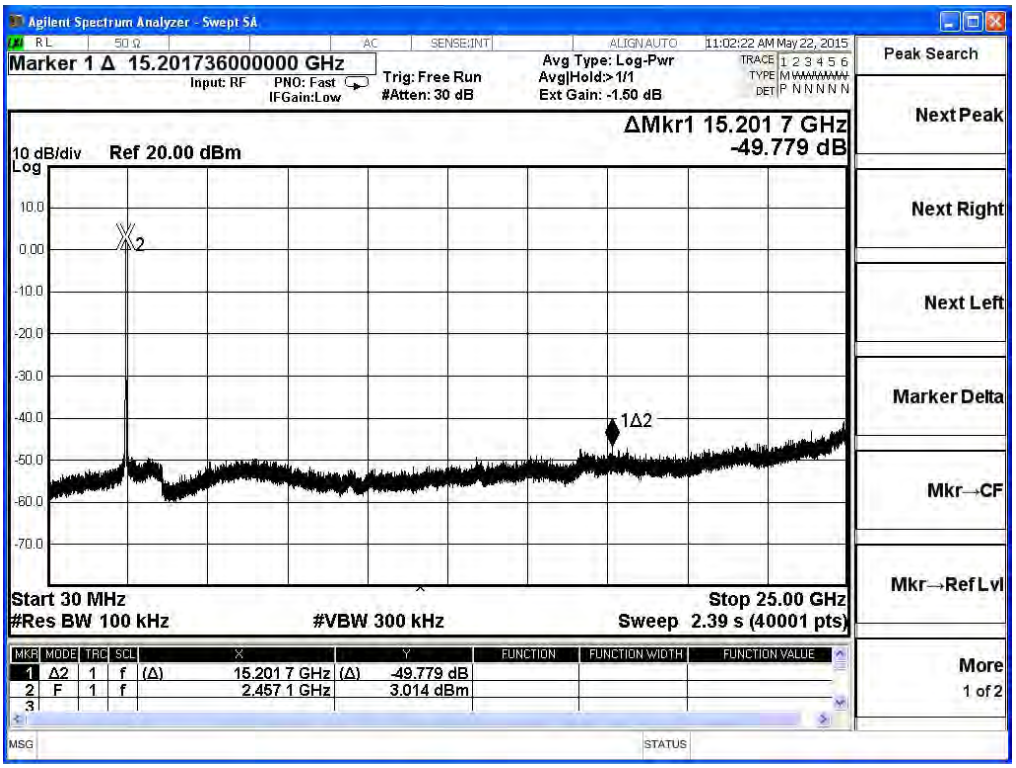
2412MHz (30MHz-25GHz)- 802.11n(20MHz)(ANT 0)



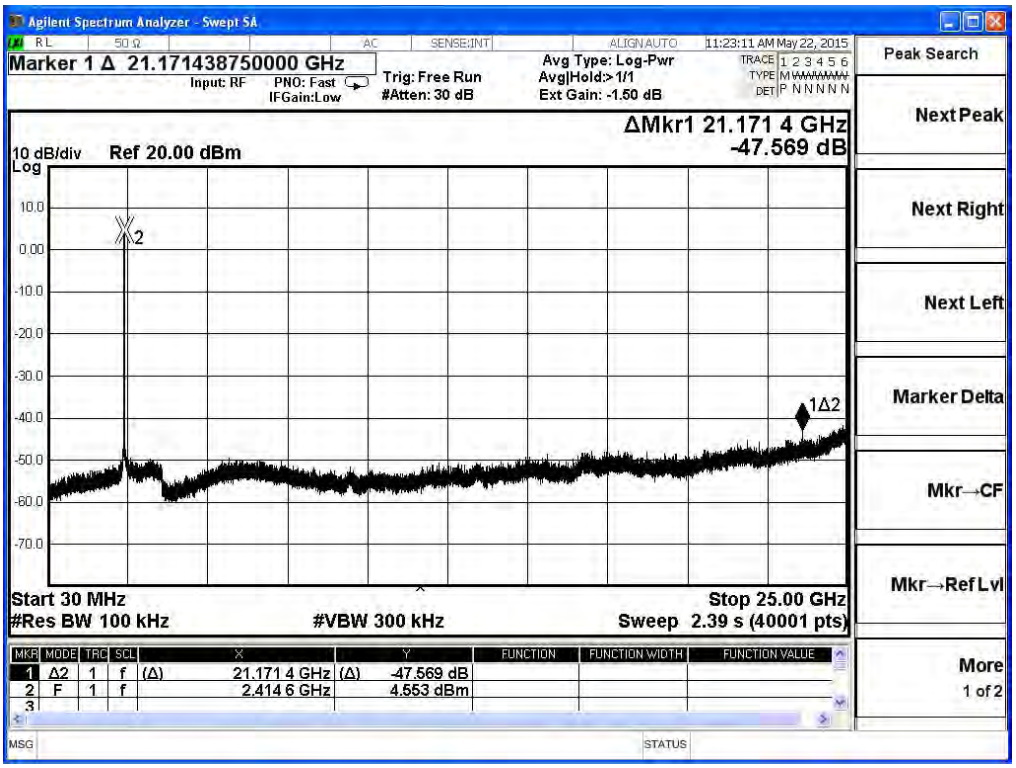
2437MHz (30MHz-25GHz)- 802.11n(20MHz)(ANT 0)



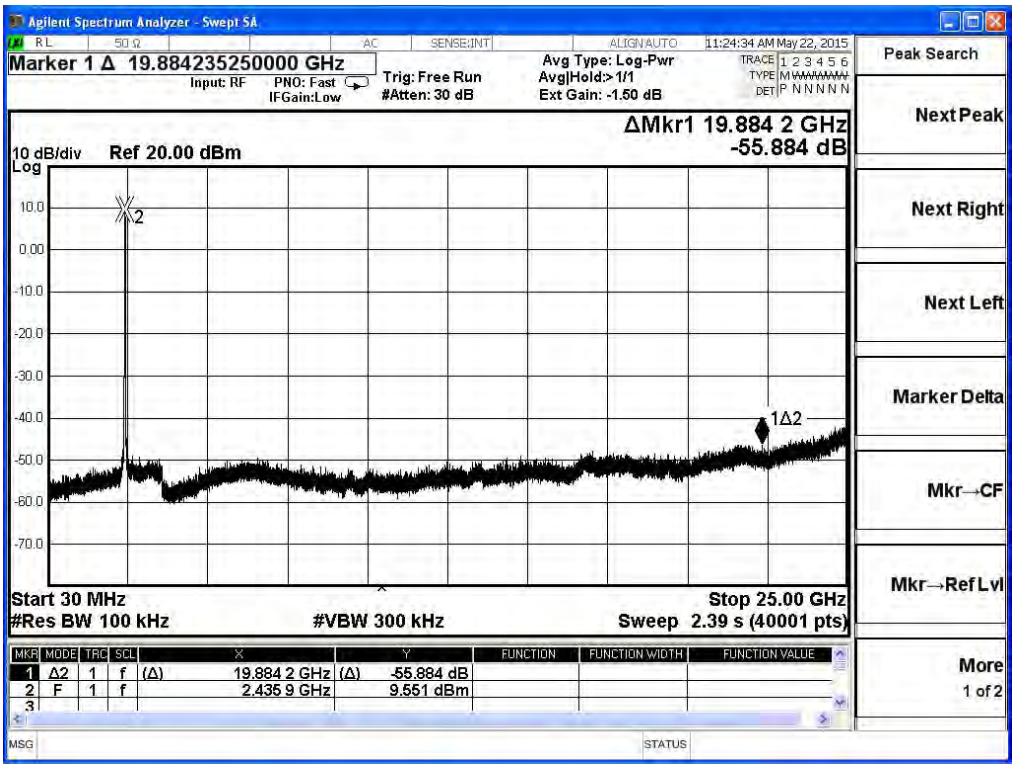
2462MHz (30MHz-25GHz) -802.11n(20MHz)(ANT 0)



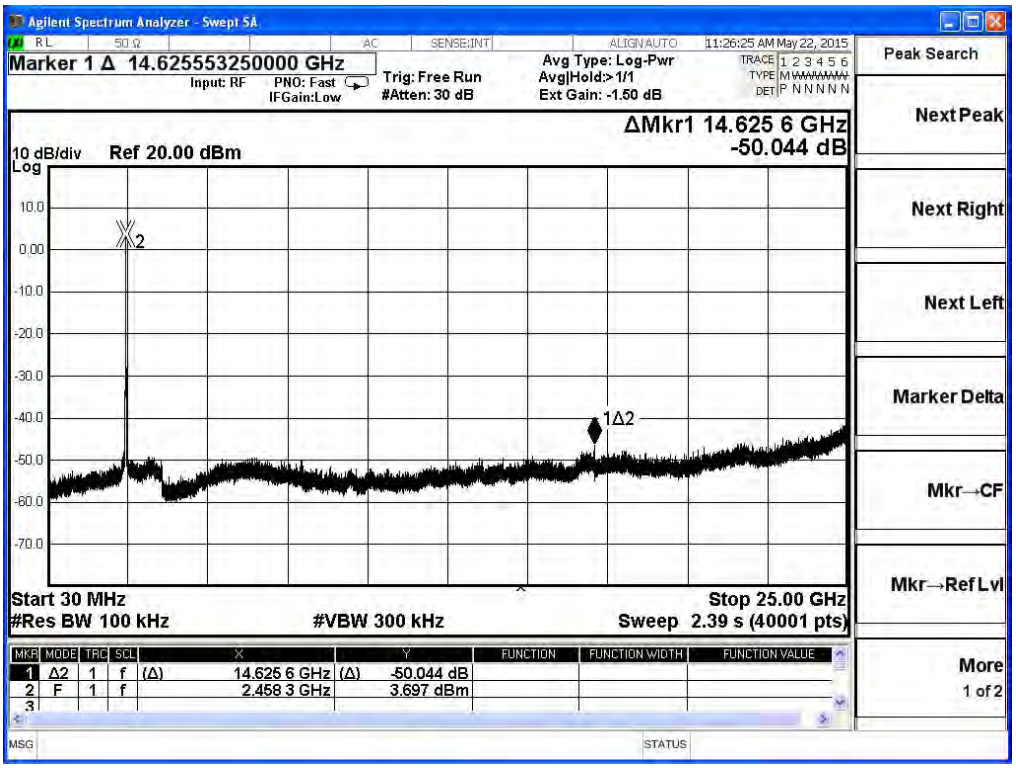
2412MHz (30MHz-25GHz)- 802.11n(20MHz)(ANT 1)



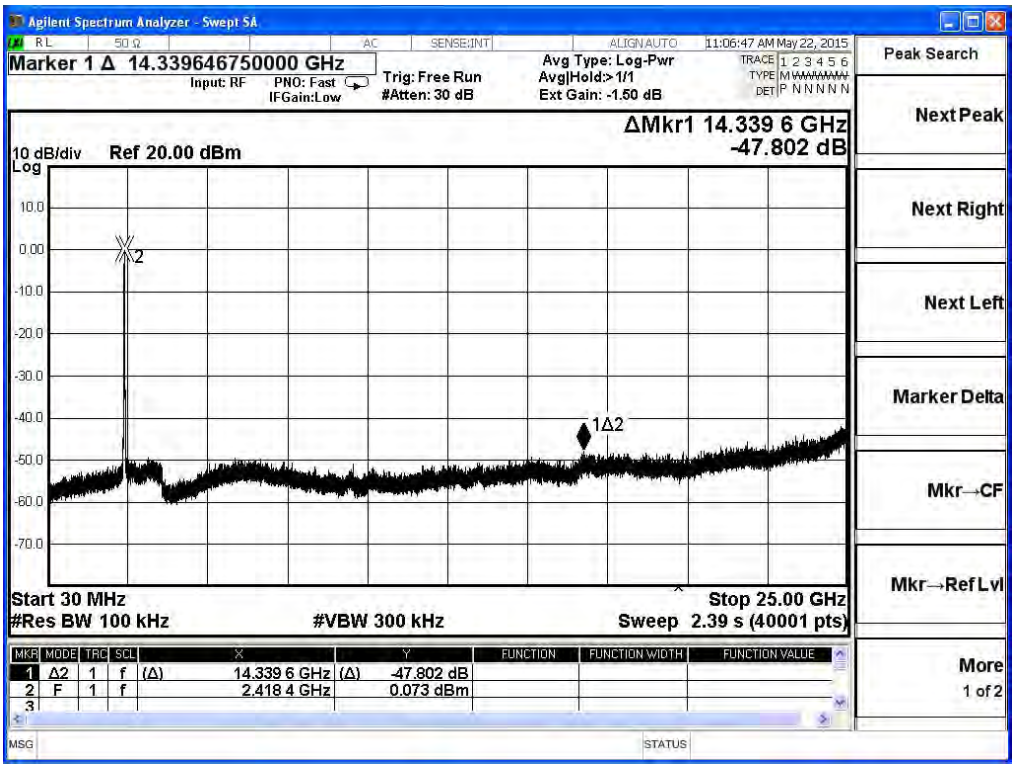
2437MHz (30MHz-25GHz)- 802.11n(20MHz)(ANT 1)



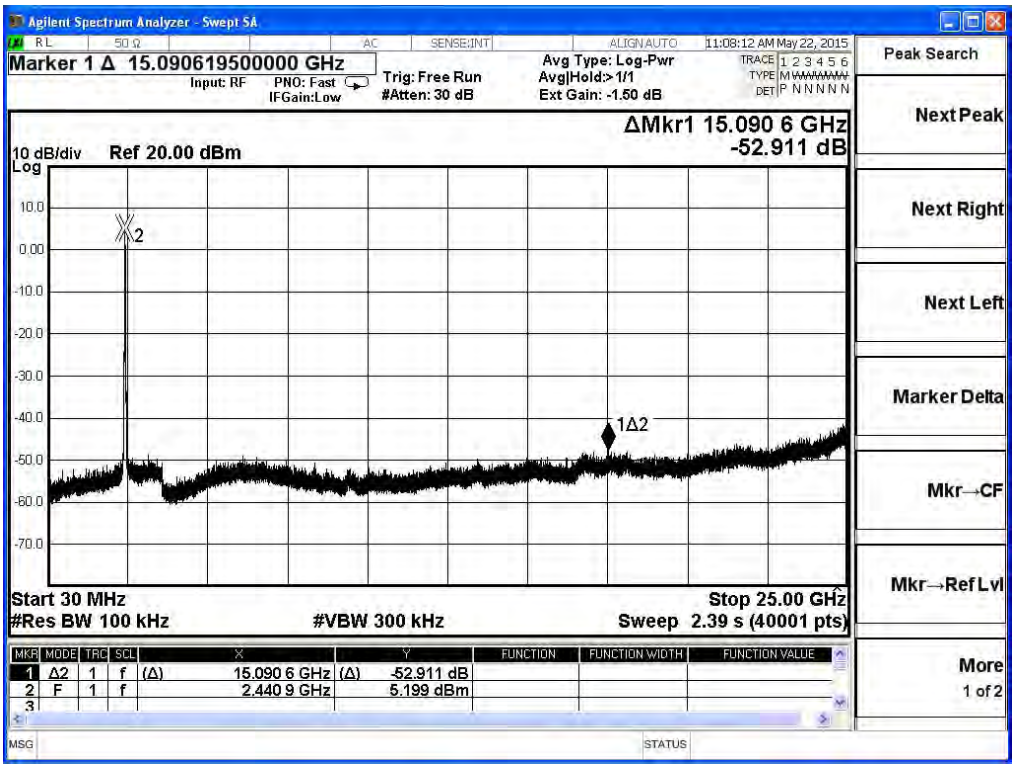
2462MHz (30MHz-25GHz) -802.11n(20MHz)(ANT 1)



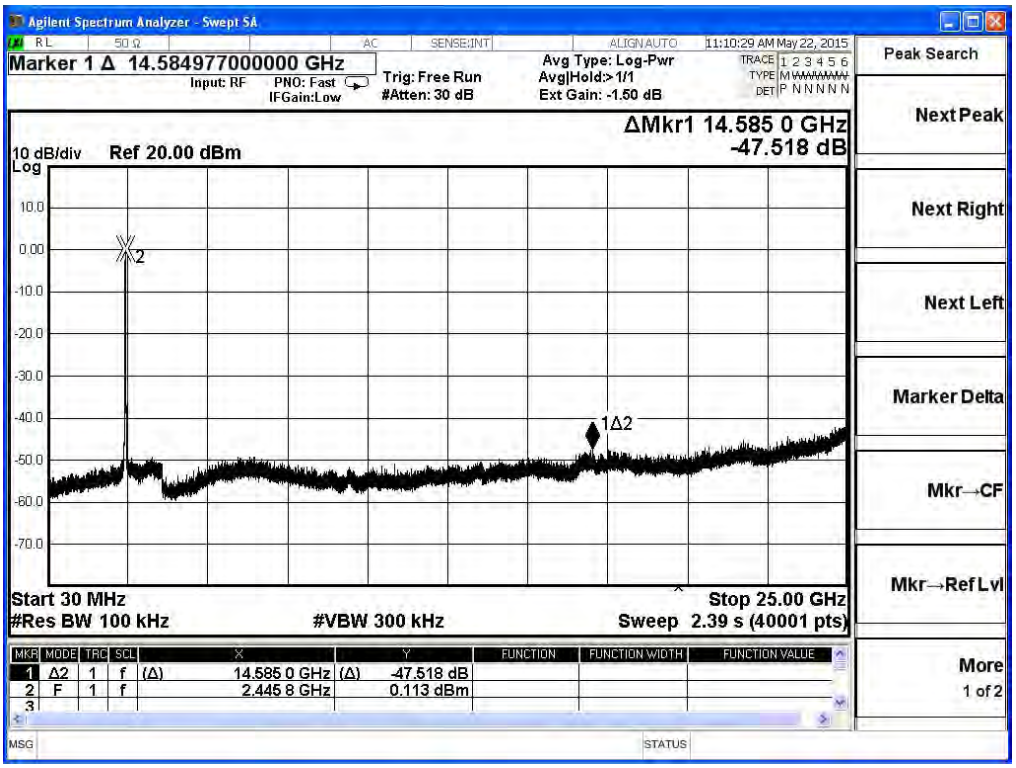
2422MHz (30MHz-25GHz)- 802.11n(40MHz)-(ANT 0)



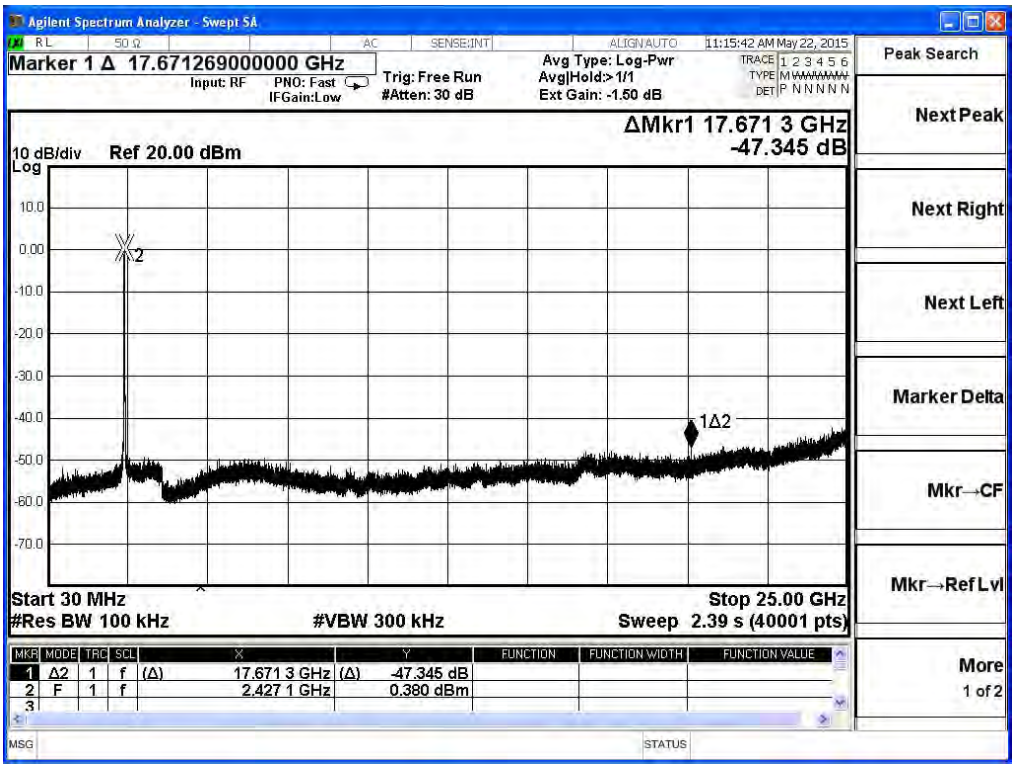
2437MHz (30MHz-25GHz)- 802.11n(40MHz)- (ANT 0)



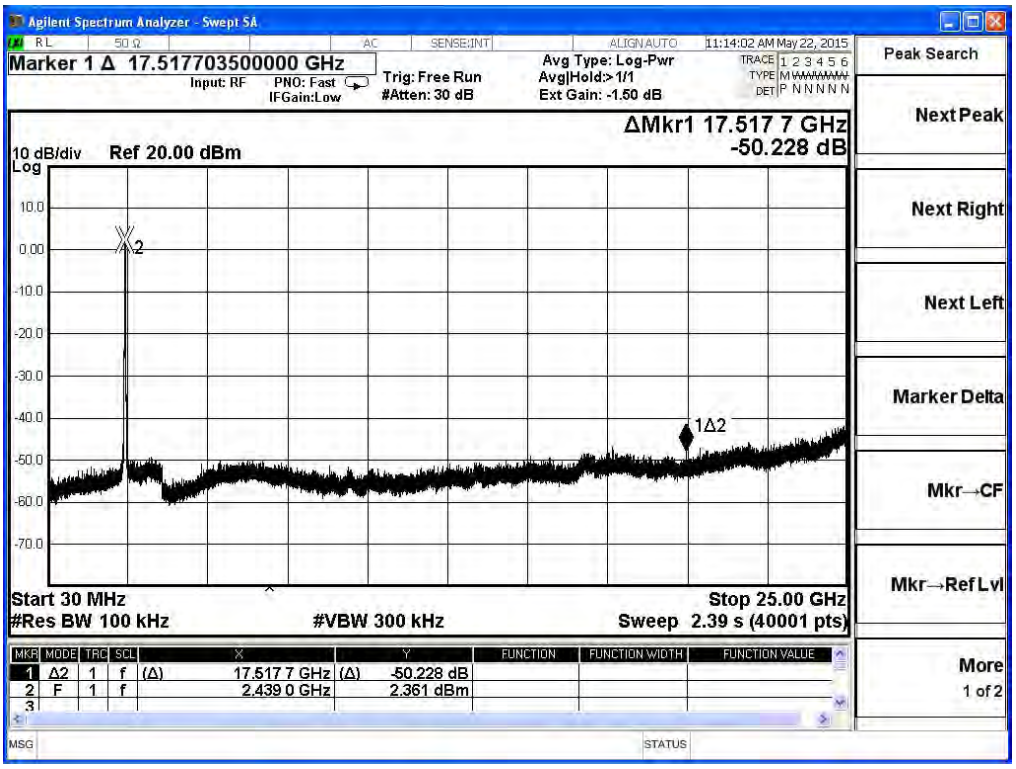
2452MHz (30MHz-25GHz) -802.11n(40MHz) (ANT 0)



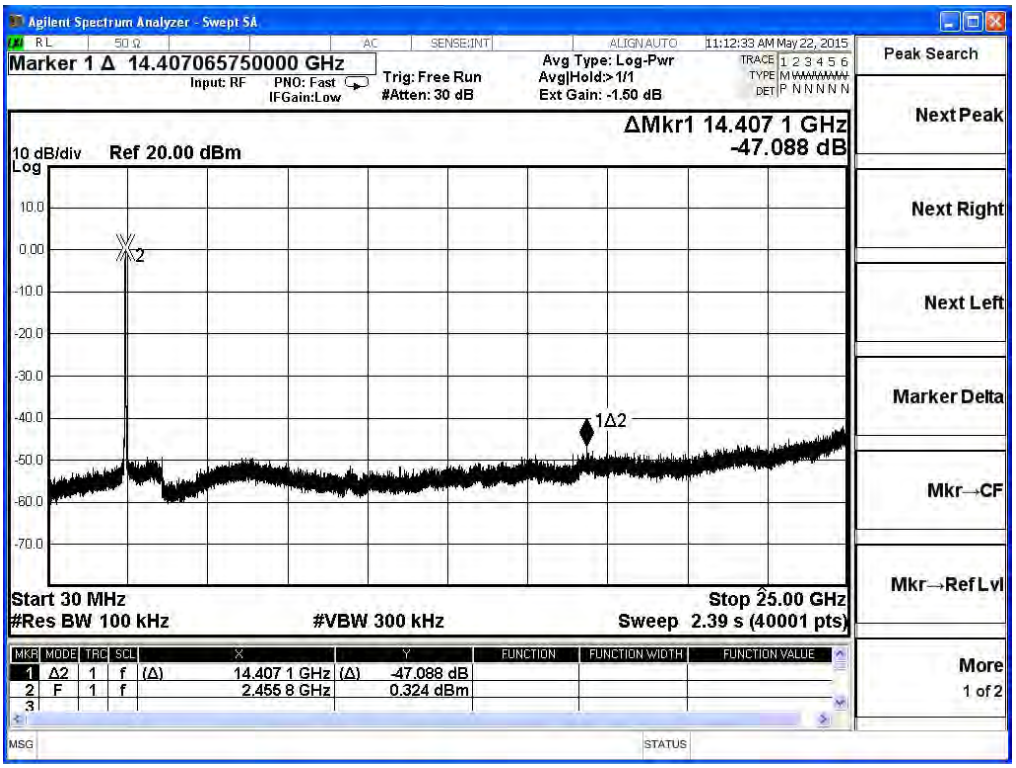
2422MHz (30MHz-25GHz)- 802.11n(40MHz)-(ANT 1)



2437MHz (30MHz-25GHz)- 802.11n(40MHz)- (ANT 1)



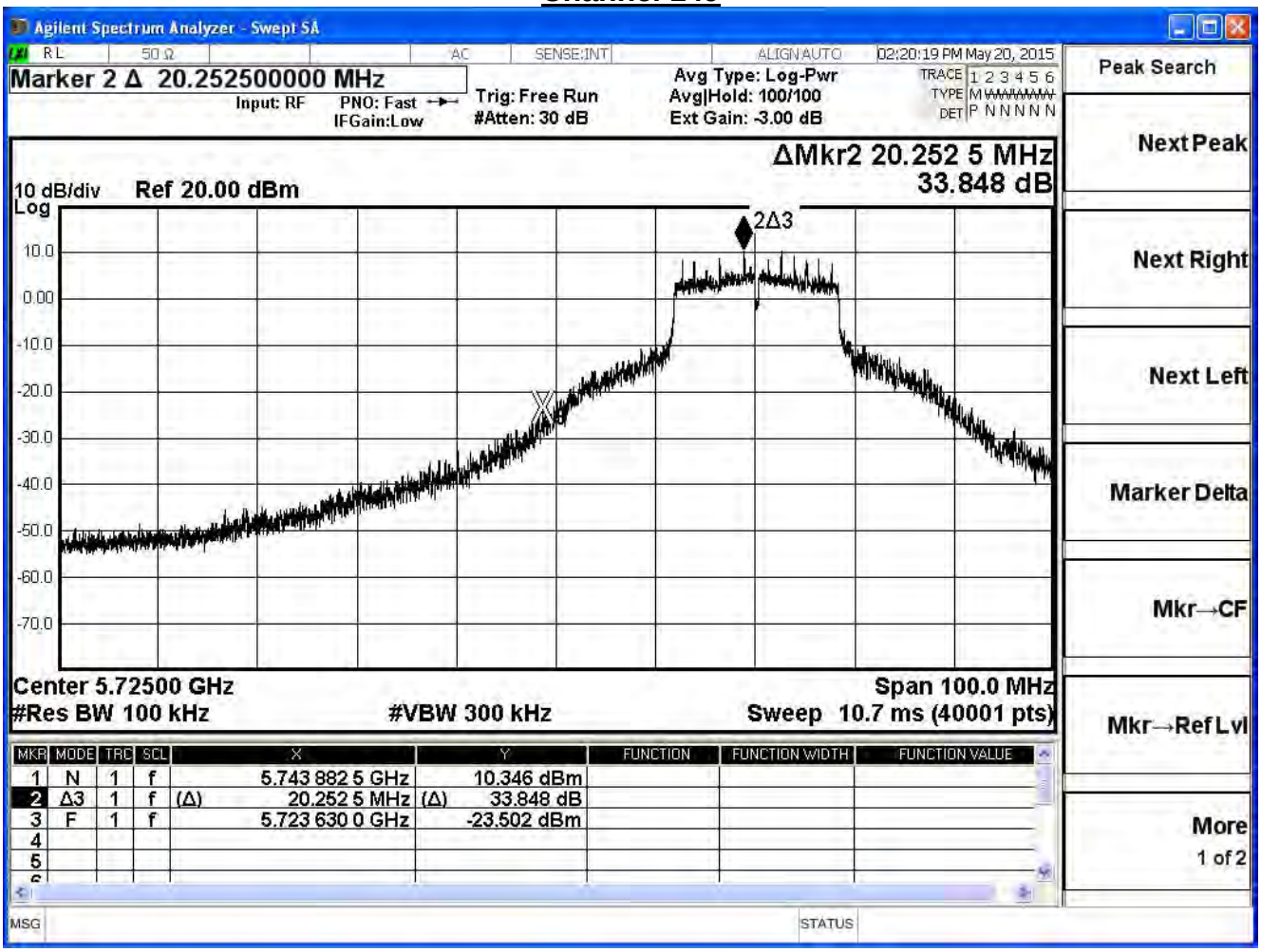
2452MHz (30MHz-25GHz) -802.11n(40MHz) (ANT 1)



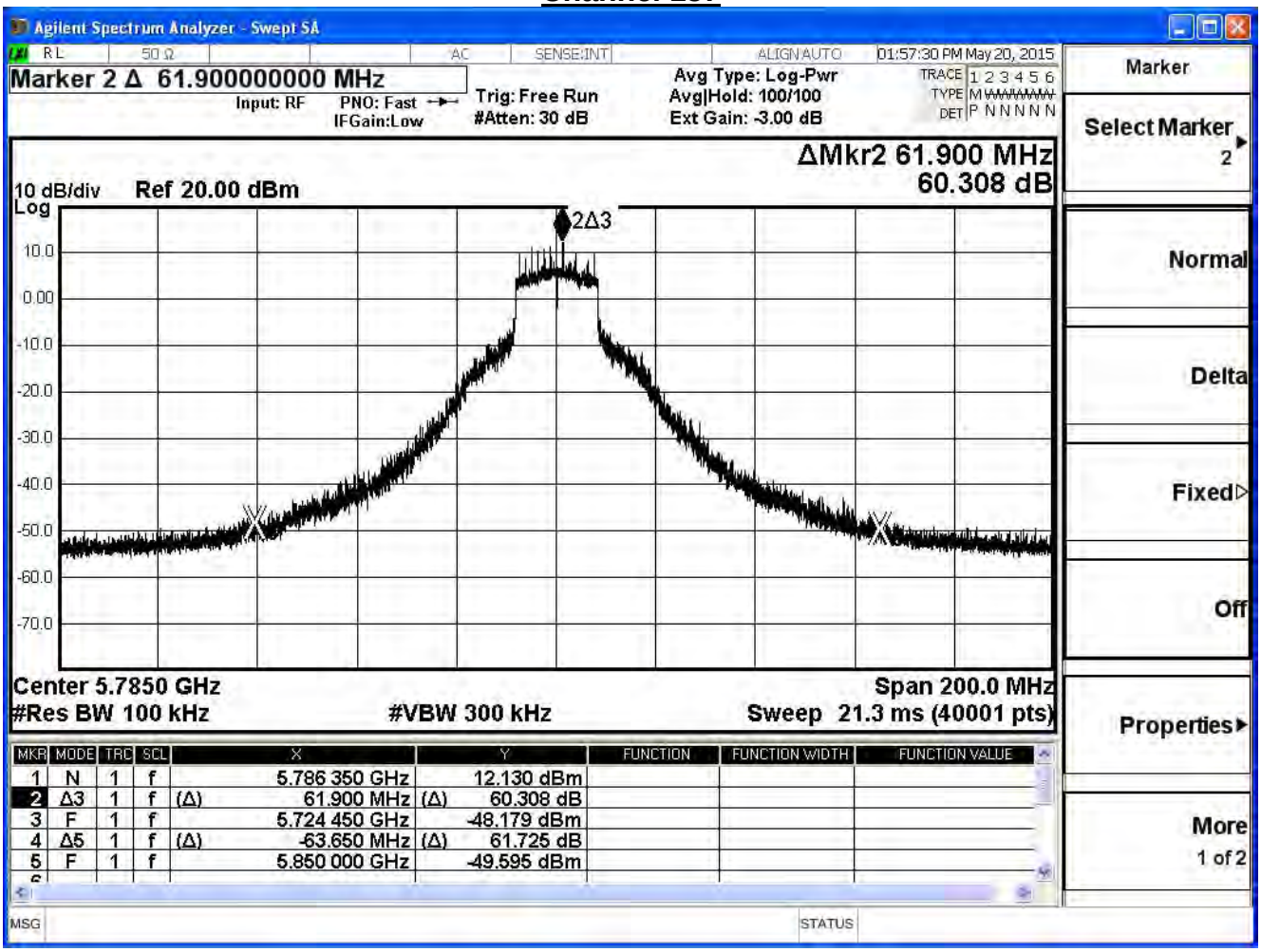
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11a (ANT 0), Antenna Gain: 4dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	33.848	≧30	Pass
157	5785	60.308	≧30	Pass
165	5825	37.413	≧30	Pass

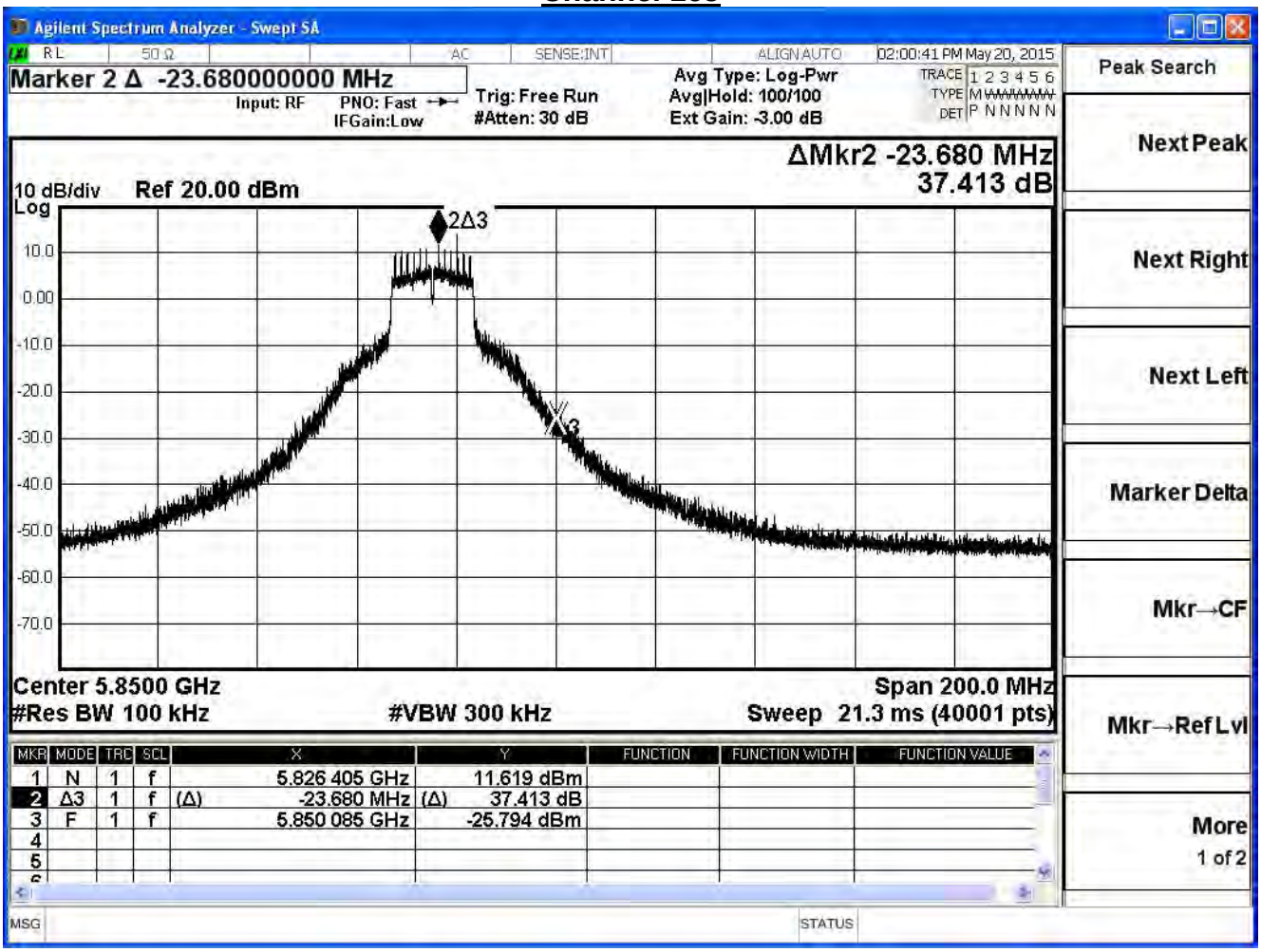
Channel 149



Channel 157


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ 61.900000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -3.00 dB
01:57:30 PM May 20, 2015
ΔMkr2 61.900 MHz
60.308 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 5.7850 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 200.0 MHz
Sweep 21.3 ms (40001 pts)
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 5.786 350 GHz 12.130 dBm
2 Δ3 1 f (Δ) 61.900 MHz (Δ) 60.308 dB
3 F 1 f 5.724 450 GHz -48.179 dBm
4 Δ5 1 f (Δ) -63.650 MHz (Δ) 61.725 dB
5 F 1 f 5.850 000 GHz -49.595 dBm
MSG
STATUS

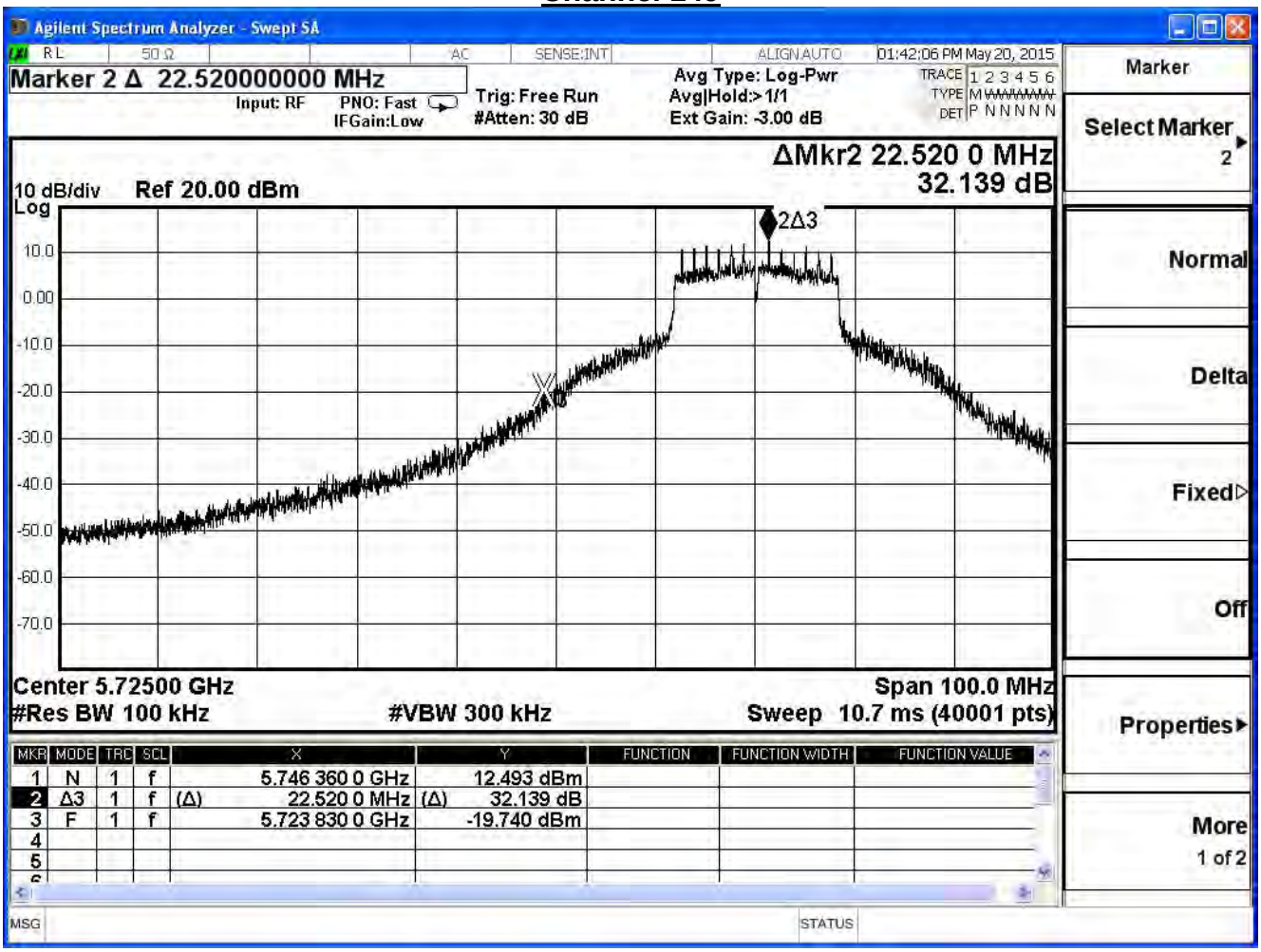
Channel 165


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -23.680000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -3.00 dB
02:00:41 PM May 20, 2015
ΔMkr2 -23.680 MHz
37.413 dB
10 dB/div
Ref 20.00 dBm
Log
Center 5.8500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 200.0 MHz
Sweep 21.3 ms (40001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
1 N 1 f 5.826 405 GHz 11.619 dBm
2 Δ3 1 f (Δ) -23.680 MHz (Δ) 37.413 dB
3 F 1 f 5.850 085 GHz -25.794 dBm

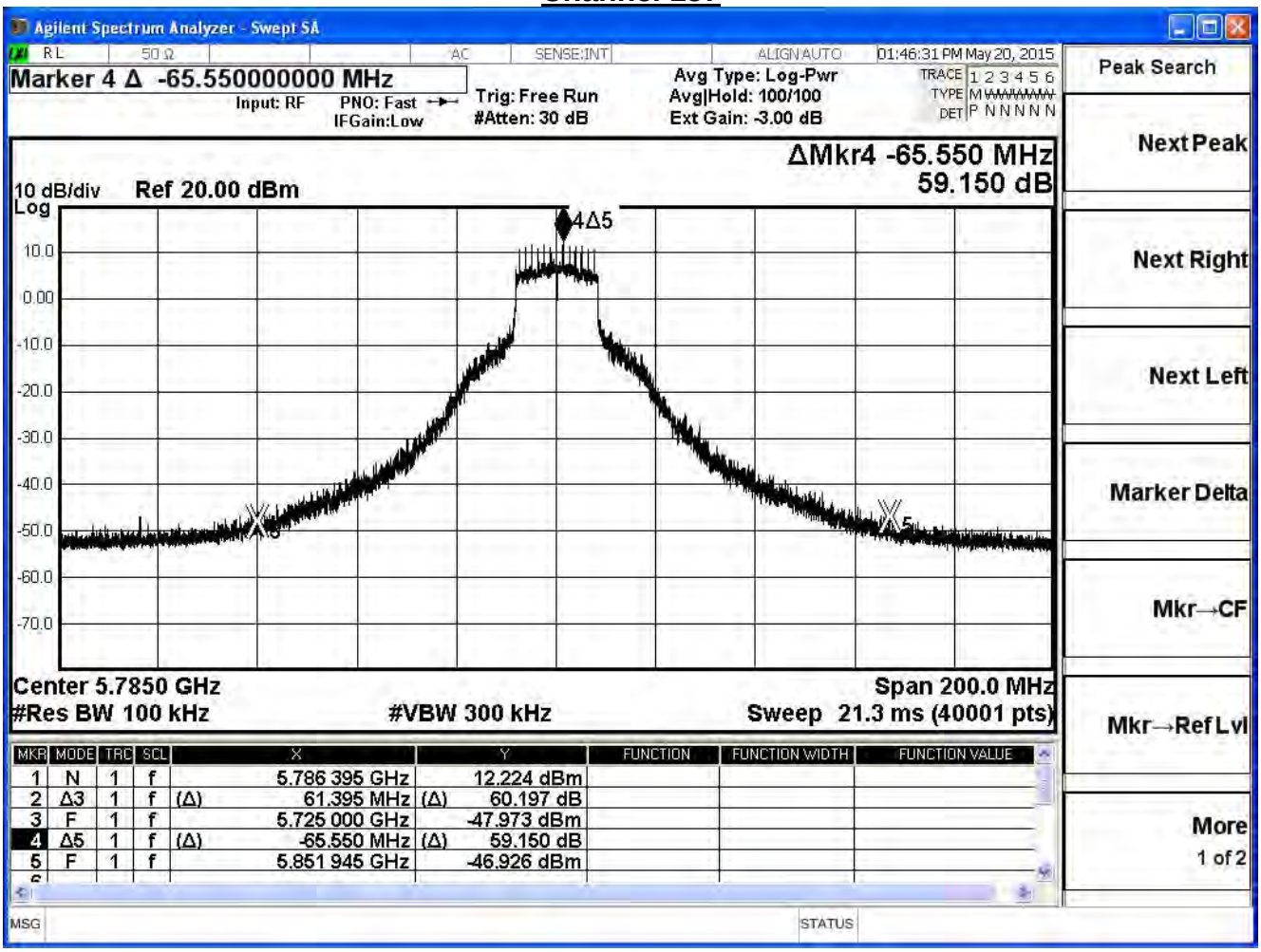
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11a (ANT 1), Antenna Gain: 4dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	32.139	≧30	Pass
157	5785	59.150	≧30	Pass
165	5825	36.668	≧30	Pass

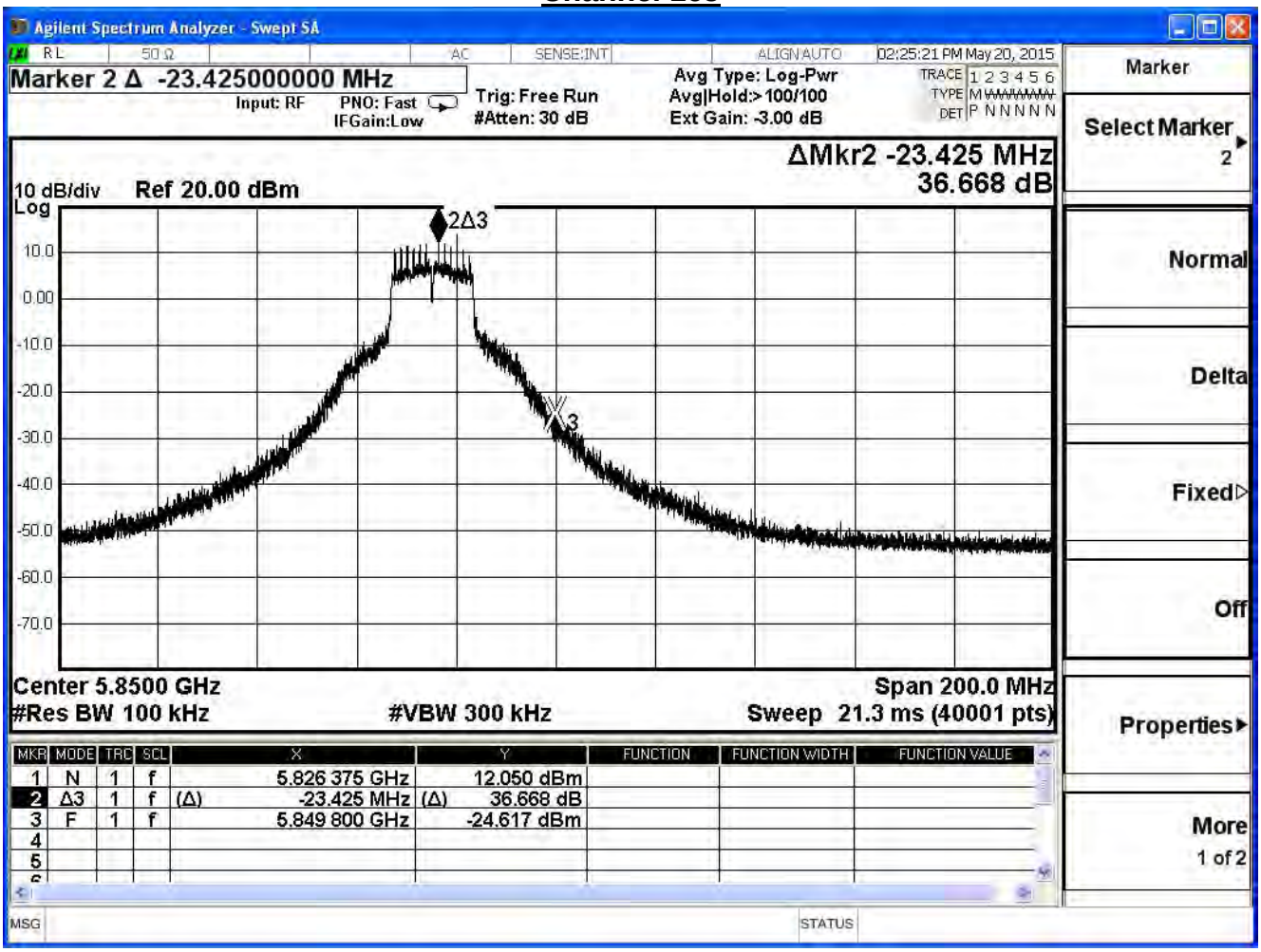
Channel 149



Channel 157


Agilent Spectrum Analyzer - Swept SA
Marker 4 Δ -65.550000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -3.00 dB
01:46:31 PM May 20, 2015
ΔMkr4 -65.550 MHz
59.150 dB
10 dB/div
Ref 20.00 dBm
Log
Center 5.7850 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 200.0 MHz
Sweep 21.3 ms (40001 pts)
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 5.786 395 GHz 12.224 dBm
2 Δ3 1 f (Δ) 61.395 MHz (Δ) 60.197 dB
3 F 1 f 5.725 000 GHz -47.973 dBm
4 Δ5 1 f (Δ) -65.550 MHz (Δ) 59.150 dB
5 F 1 f 5.851 945 GHz -46.926 dBm
MSG
STATUS

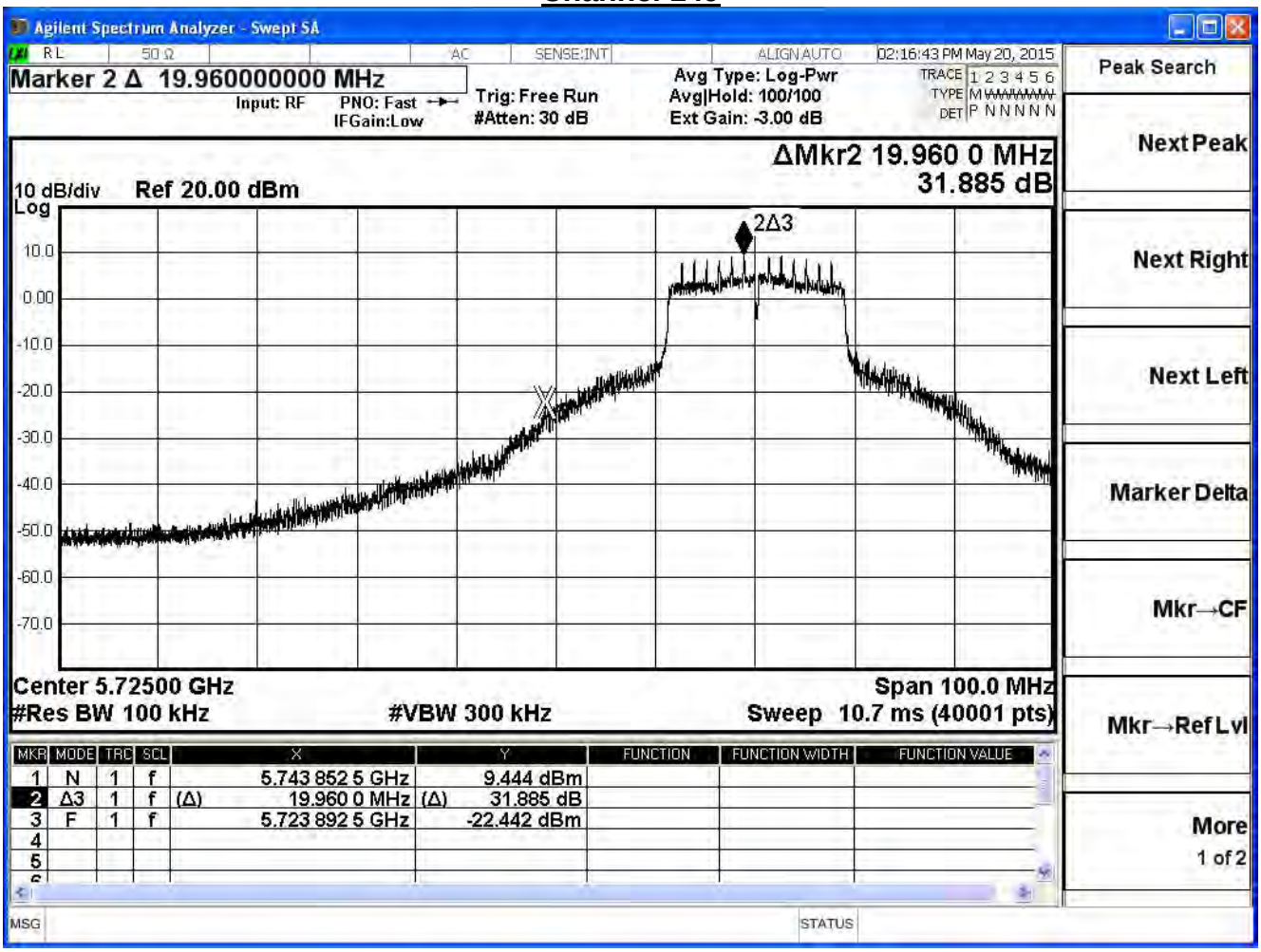
Channel 165


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -23.425000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -3.00 dB
02:25:21 PM May 20, 2015
ΔMkr2 -23.425 MHz
36.668 dB
10 dB/div
Ref 20.00 dBm
Log
Center 5.8500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 200.0 MHz
Sweep 21.3 ms (40001 pts)
1 N 1 f 5.826 375 GHz 12.050 dBm
2 Δ3 1 f (Δ) -23.425 MHz (Δ) 36.668 dB
3 F 1 f 5.849 800 GHz -24.617 dBm
Marker
Select Marker 2
Normal
Delta
Fixed
Off
Properties
More 1 of 2

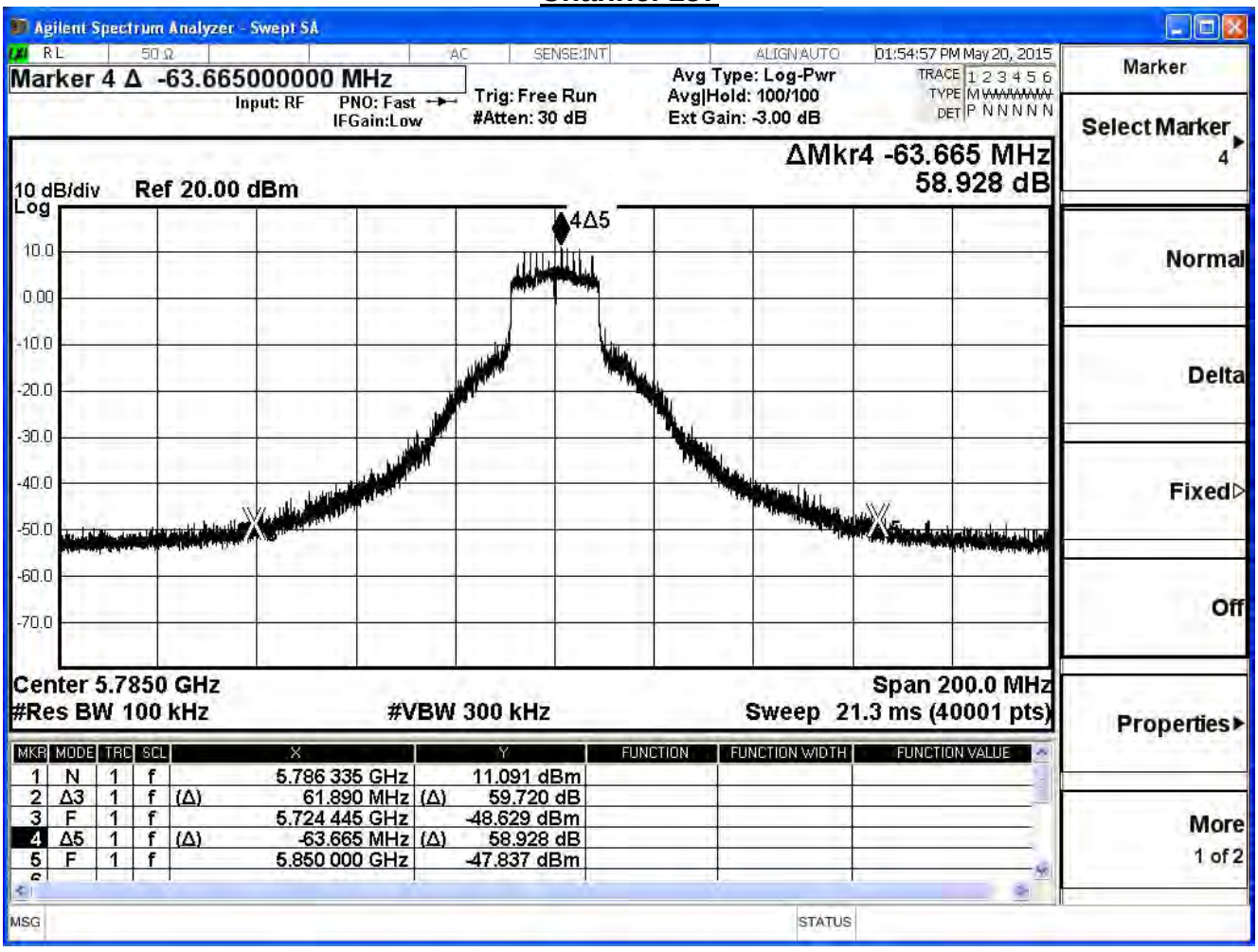
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 0) Antenna Gain: 4dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	31.885	≧30	Pass
157	5785	58.925	≧30	Pass
165	5825	37.986	≧30	Pass

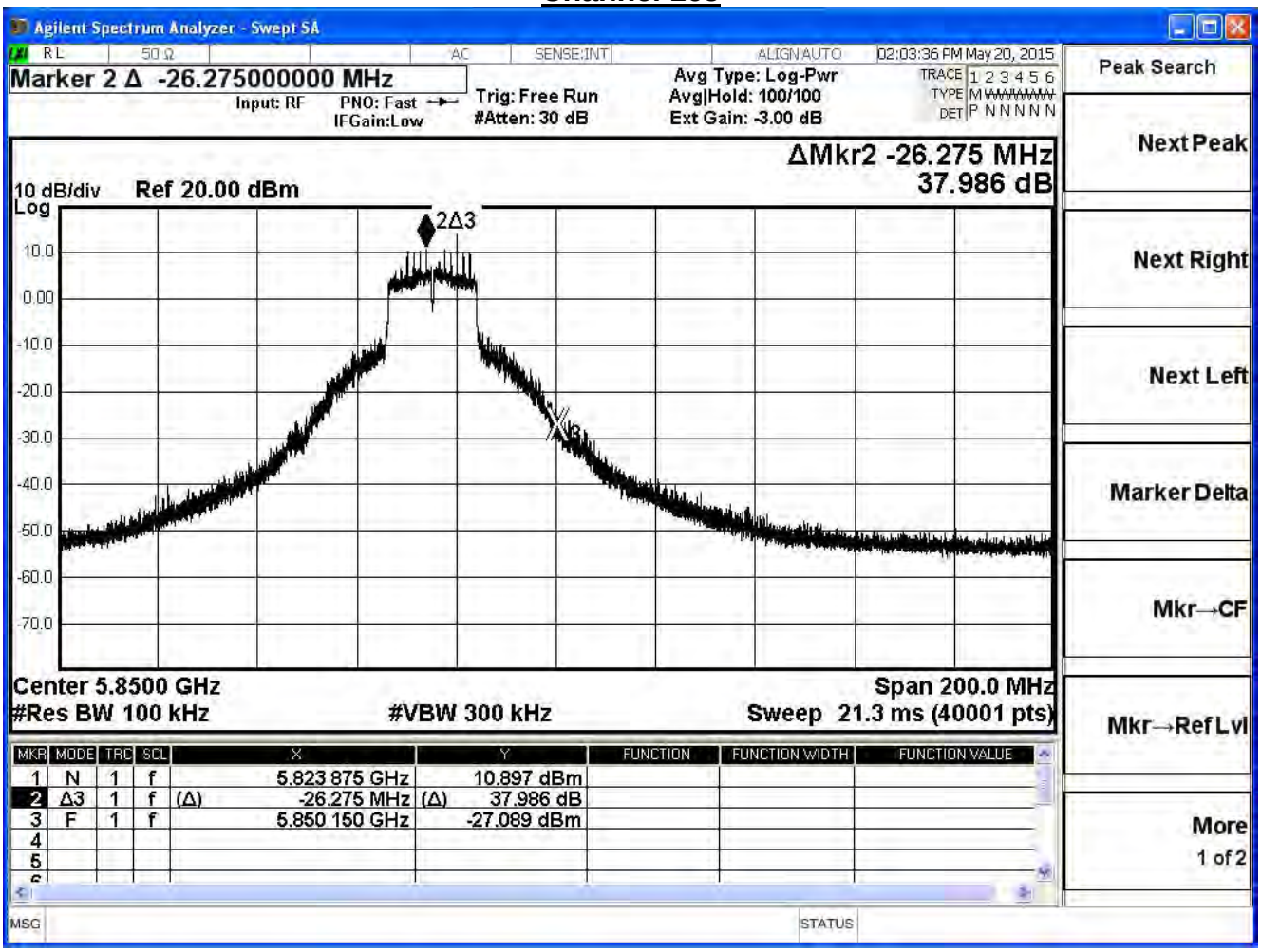
Channel 149



Channel 157


Agilent Spectrum Analyzer - Swept SA
Marker 4 Δ -63.665000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -3.00 dB
01:54:57 PM May 20, 2015
ΔMkr4 -63.665 MHz
58.928 dB
10 dB/div
Ref 20.00 dBm
Log
Center 5.7850 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 200.0 MHz
Sweep 21.3 ms (40001 pts)
Marker
Select Marker 4
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 5.786 335 GHz 11.091 dBm
2 Δ3 1 f (Δ) 61.890 MHz (Δ) 59.720 dB
3 F 1 f 5.724 445 GHz -48.629 dBm
4 Δ5 1 f (Δ) -63.665 MHz (Δ) 58.928 dB
5 F 1 f 5.850 000 GHz -47.837 dBm
MSG
STATUS

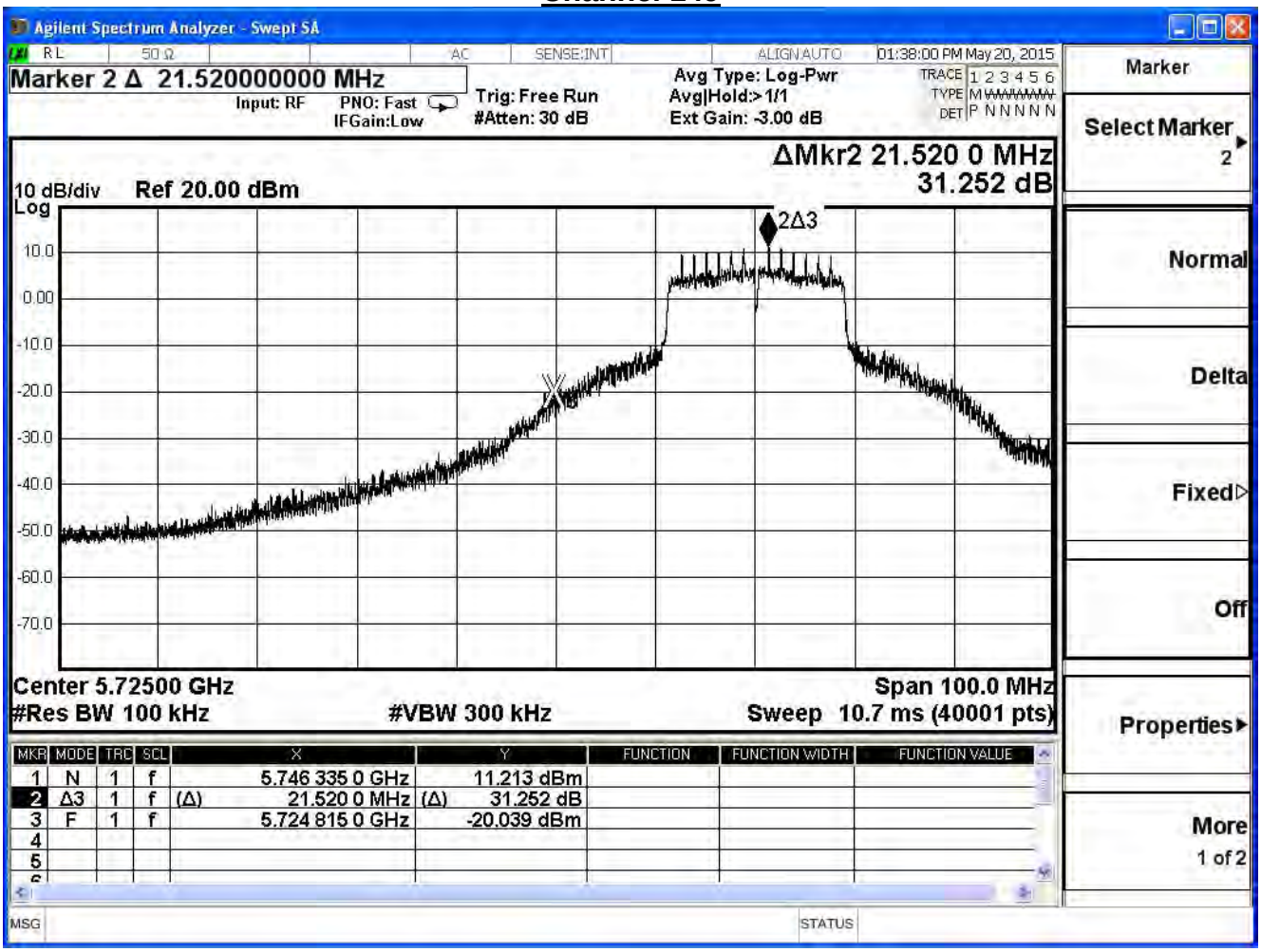
Channel 165


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -26.275000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold: 100/100
Ext Gain: -3.00 dB
02:03:36 PM May 20, 2015
ΔMkr2 -26.275 MHz
37.986 dB
10 dB/div
Ref 20.00 dBm
Log
2Δ3
Center 5.8500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 200.0 MHz
Sweep 21.3 ms (40001 pts)
1 N 1 f 5.823 875 GHz 10.897 dBm
2 Δ3 1 f (Δ) -26.275 MHz (Δ) 37.986 dB
3 F 1 f 5.850 150 GHz -27.089 dBm
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

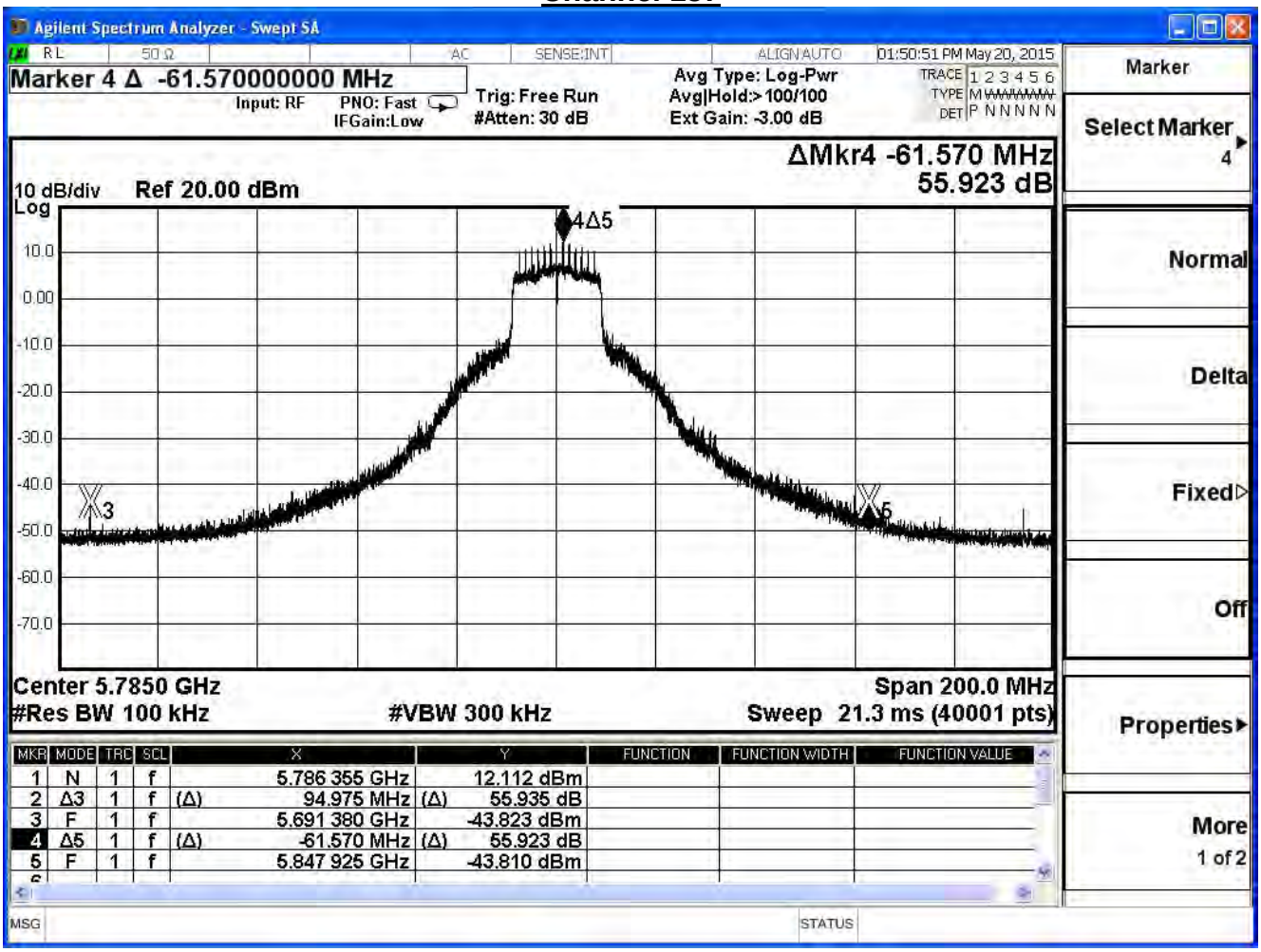
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11n (20MHz), (ANT 1) Antenna Gain: 4dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
149	5745	31.252	≧30	Pass
157	5785	55.923	≧30	Pass
165	5825	38.519	≧30	Pass

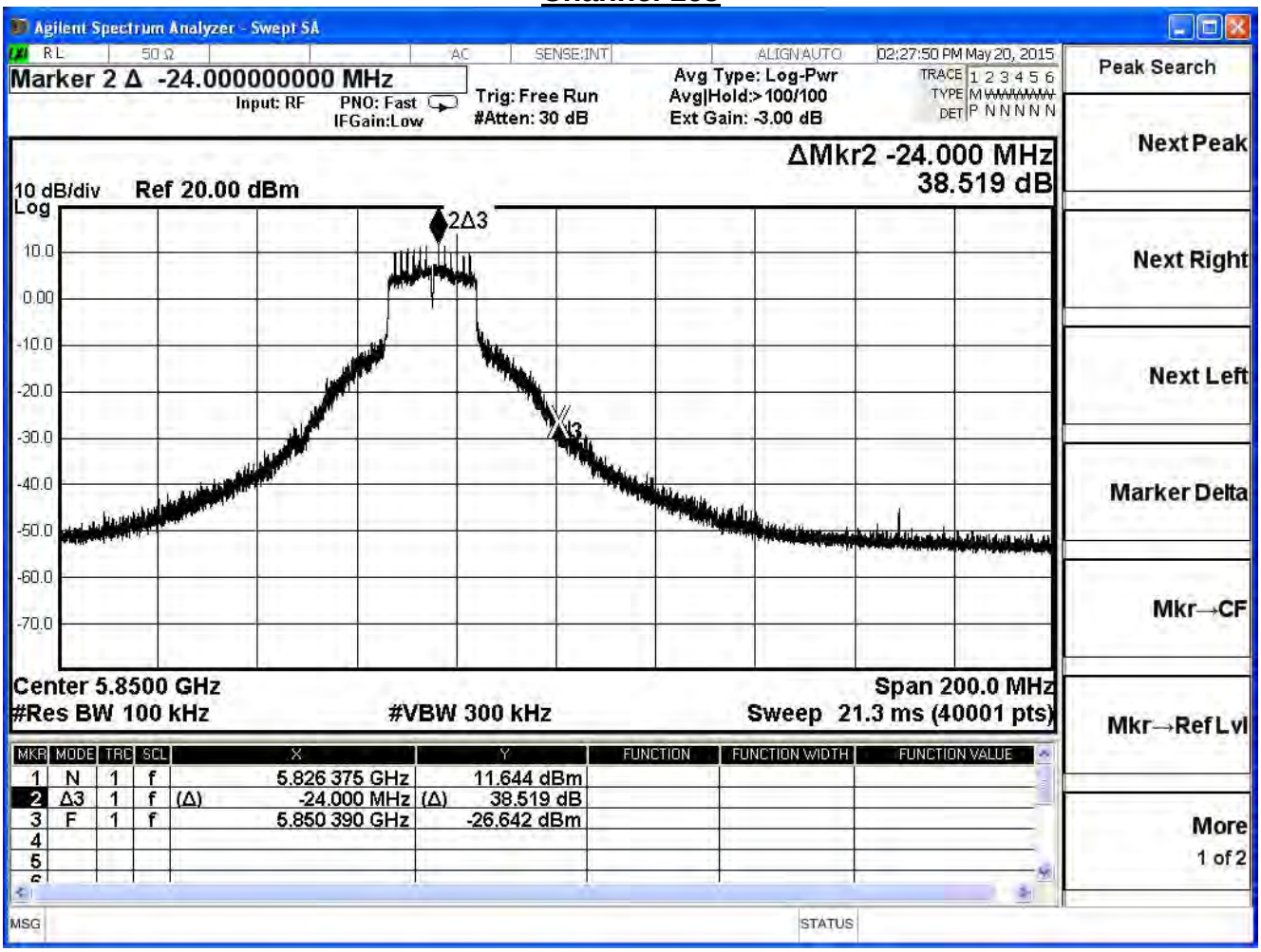
Channel 149



Channel 157


Agilent Spectrum Analyzer - Swept SA
Marker 4 Δ -61.570000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -3.00 dB
01:50:51 PM May 20, 2015
ΔMkr4 -61.570 MHz
55.923 dB
10 dB/div
Ref 20.00 dBm
Log
Center 5.7850 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 200.0 MHz
Sweep 21.3 ms (40001 pts)
Marker
Select Marker 4
Normal
Delta
Fixed
Off
Properties
More 1 of 2
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 5.786 355 GHz 12.112 dBm
2 Δ3 1 f (Δ) 94.975 MHz (Δ) 55.935 dB
3 F 1 f 5.691 380 GHz -43.823 dBm
4 Δ5 1 f (Δ) -61.570 MHz (Δ) 55.923 dB
5 F 1 f 5.847 925 GHz -43.810 dBm
MSG
STATUS

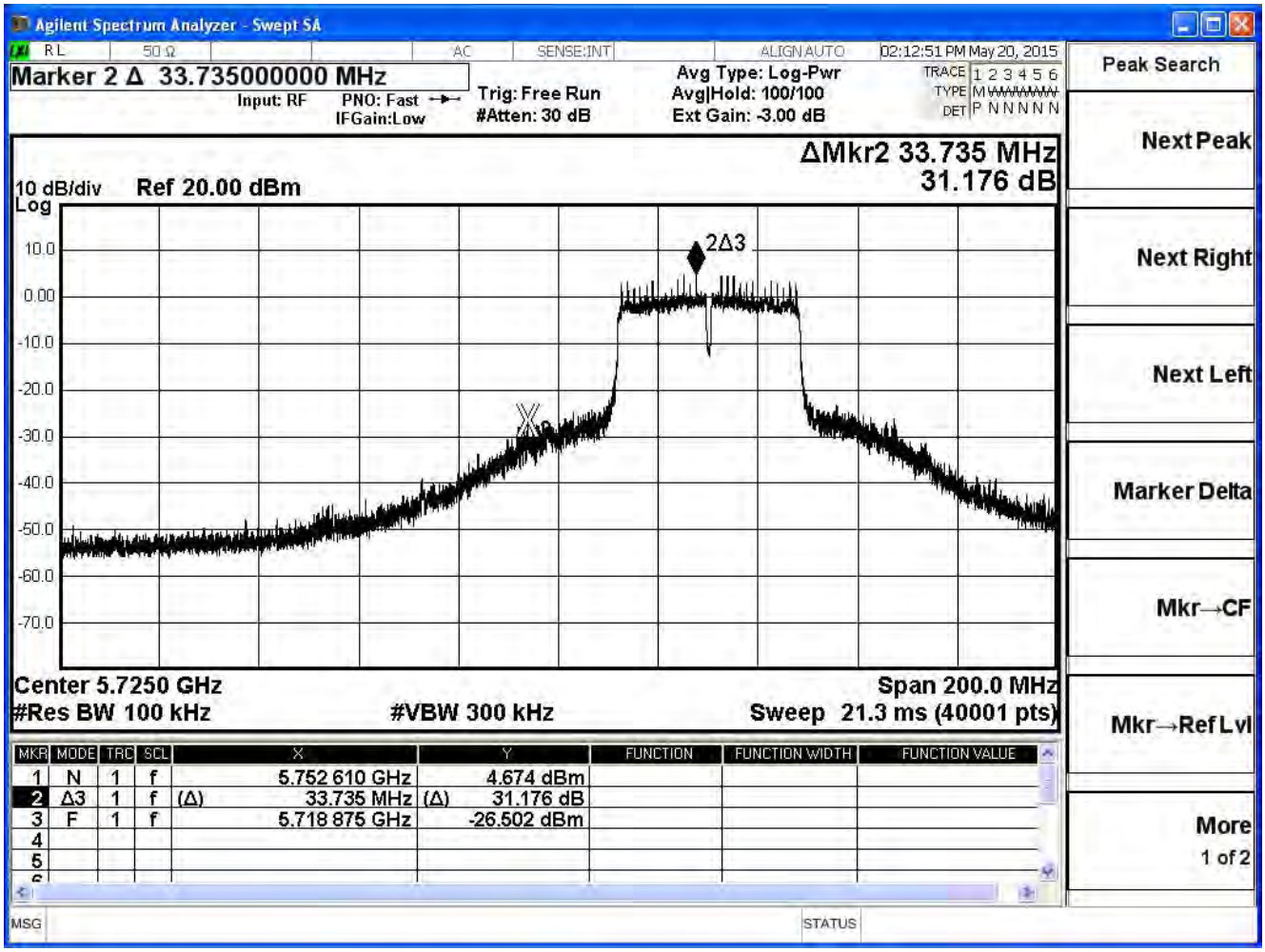
Channel 165


Agilent Spectrum Analyzer - Swept SA
Marker 2 Δ -24.000000000 MHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -3.00 dB
02:27:50 PM May 20, 2015
ΔMkr2 -24.000 MHz
38.519 dB
10 dB/div
Ref 20.00 dBm
Log
Center 5.8500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 200.0 MHz
Sweep 21.3 ms (40001 pts)
1 N 1 f 5.826 375 GHz 11.644 dBm
2 Δ3 1 f (Δ) -24.000 MHz (Δ) 38.519 dB
3 F 1 f 5.850 390 GHz -26.642 dBm
Peak Search
Next Peak
Next Right
Next Left
Marker Delta
Mkr→CF
Mkr→Ref Lvl
More
1 of 2

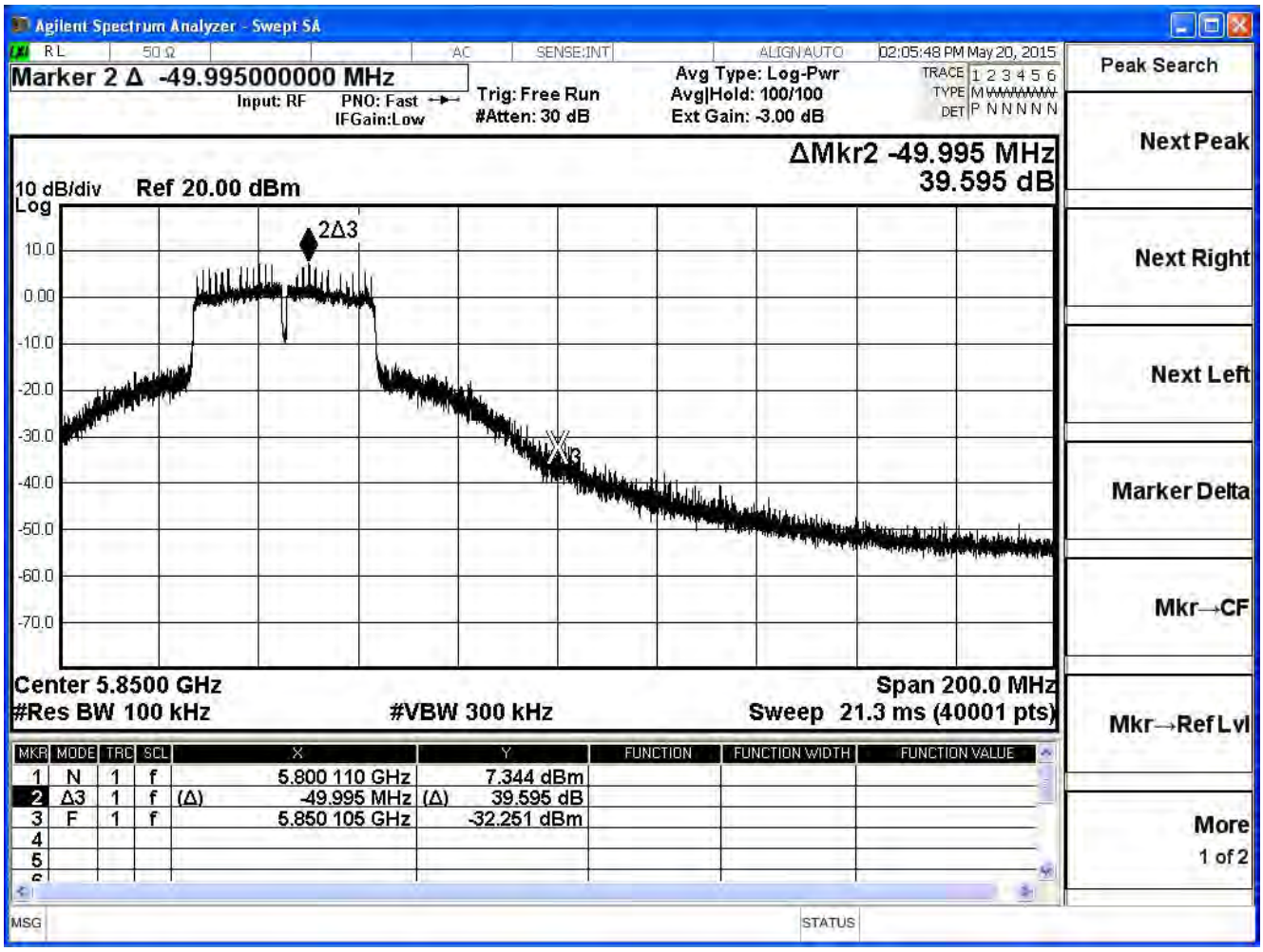
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 0) Antenna Gain: 4dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	31.176	≧30	Pass
159	5795	39.595	≧30	Pass

Channel 151 (5755MHz)



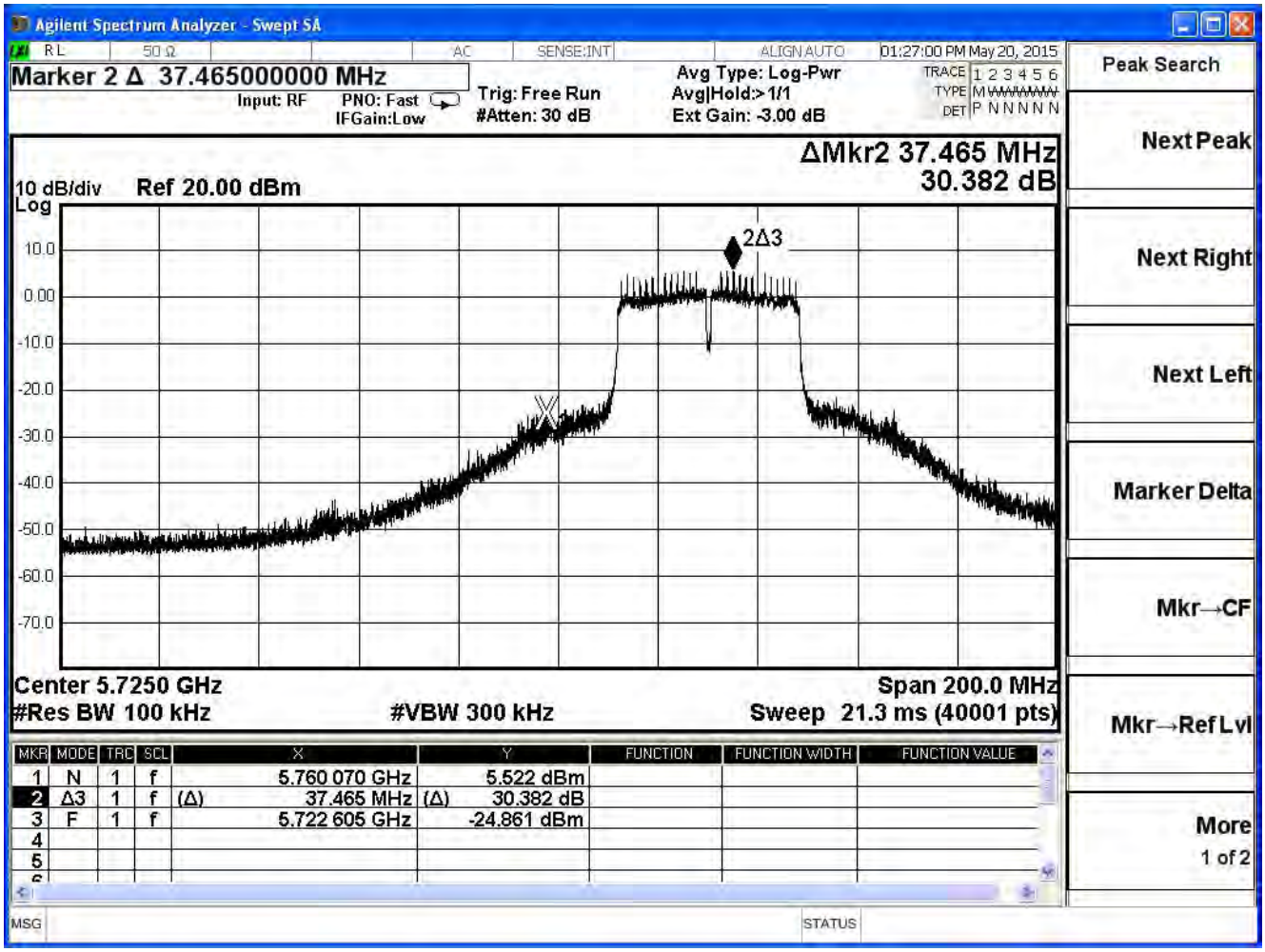
Channel 159 (5795MHz)



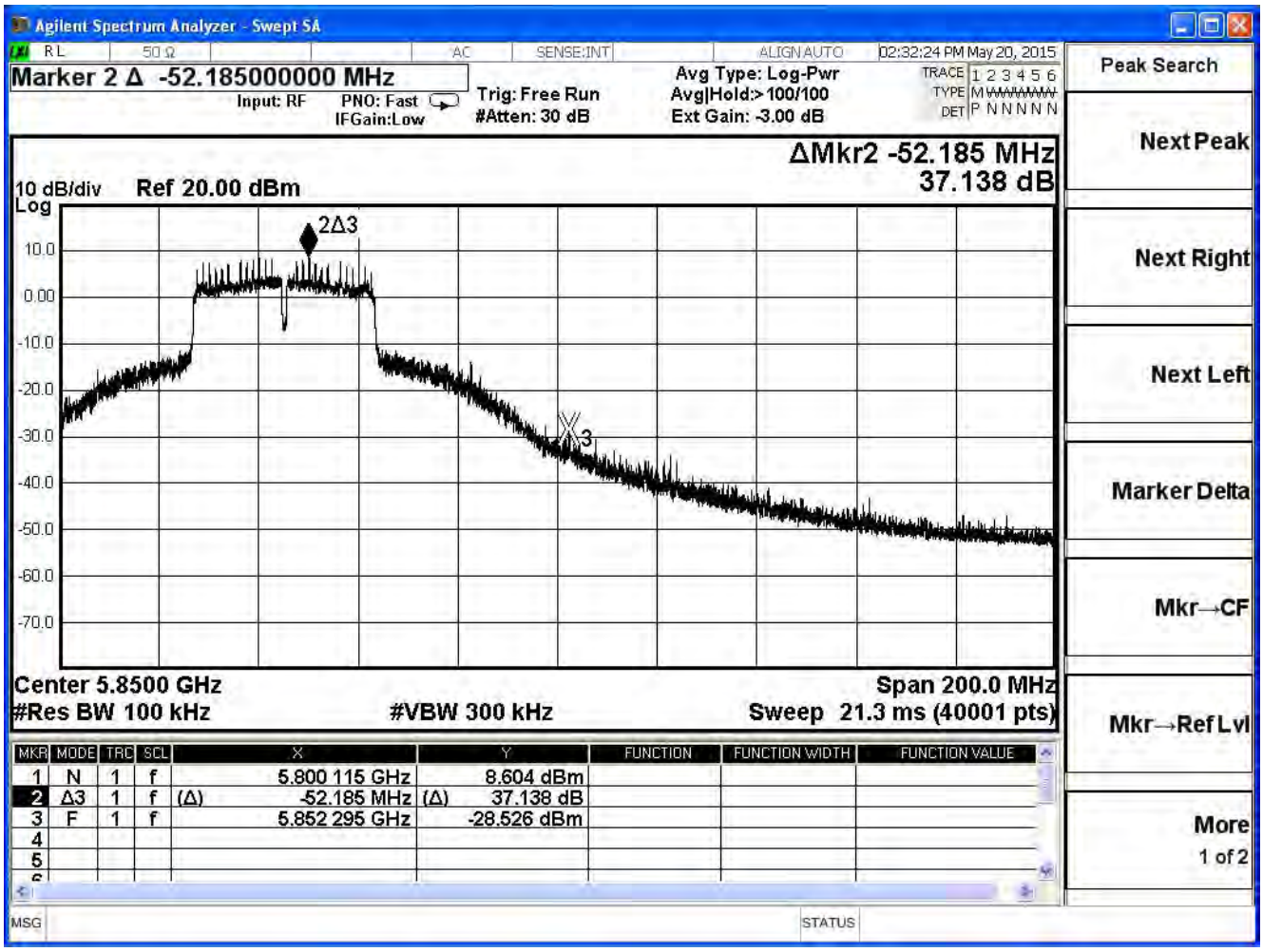
Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 1) Antenna Gain: 4dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
151	5755	30.382	≧30	Pass
159	5795	37.138	≧30	Pass

Channel 151 (5755MHz)



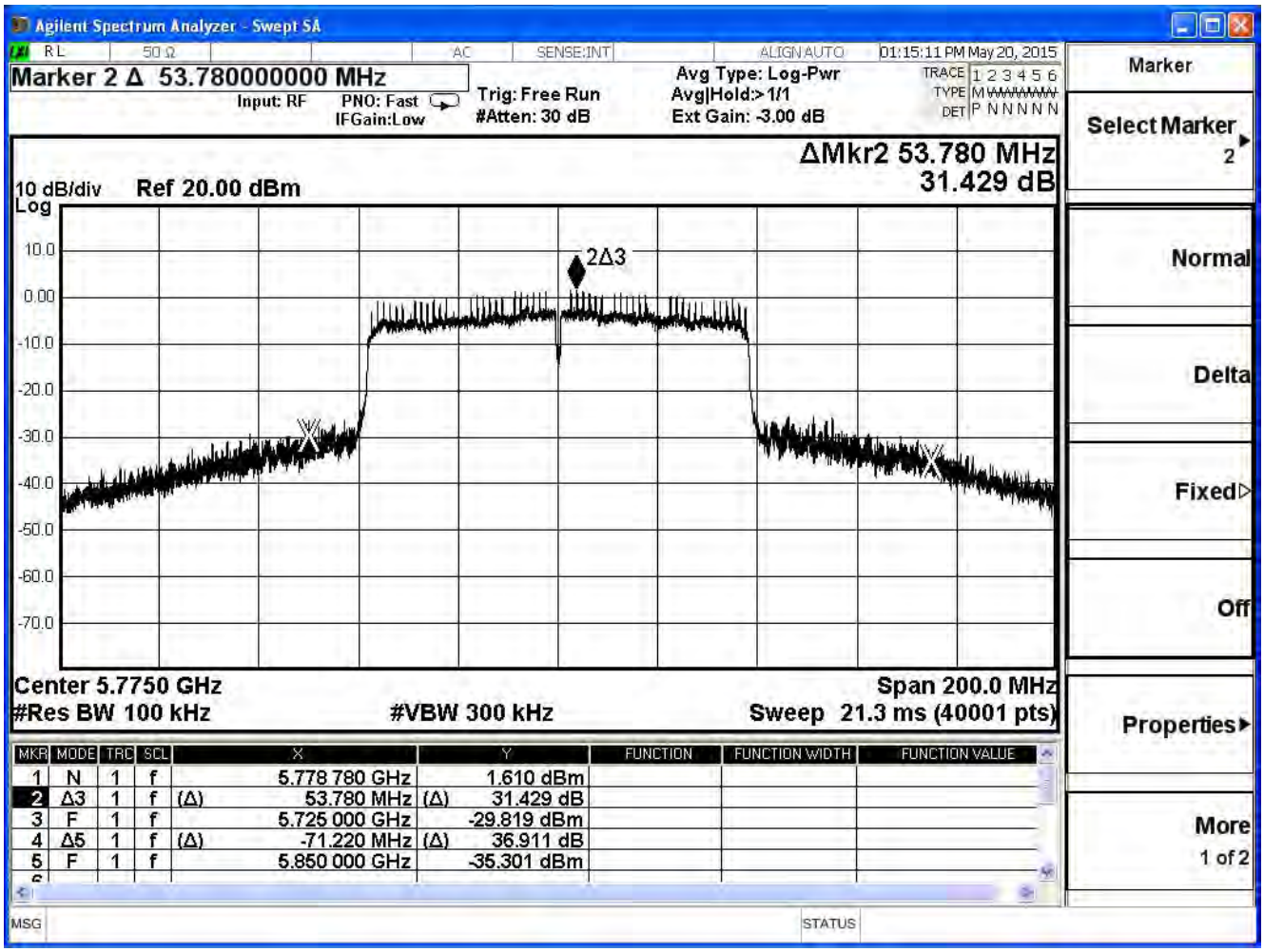
Channel 159 (5795MHz)



Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

IEEE 802.11ac (80MHz), (ANT 0) Antenna Gain: 4dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
155	5775	31.429	≧30	Pass

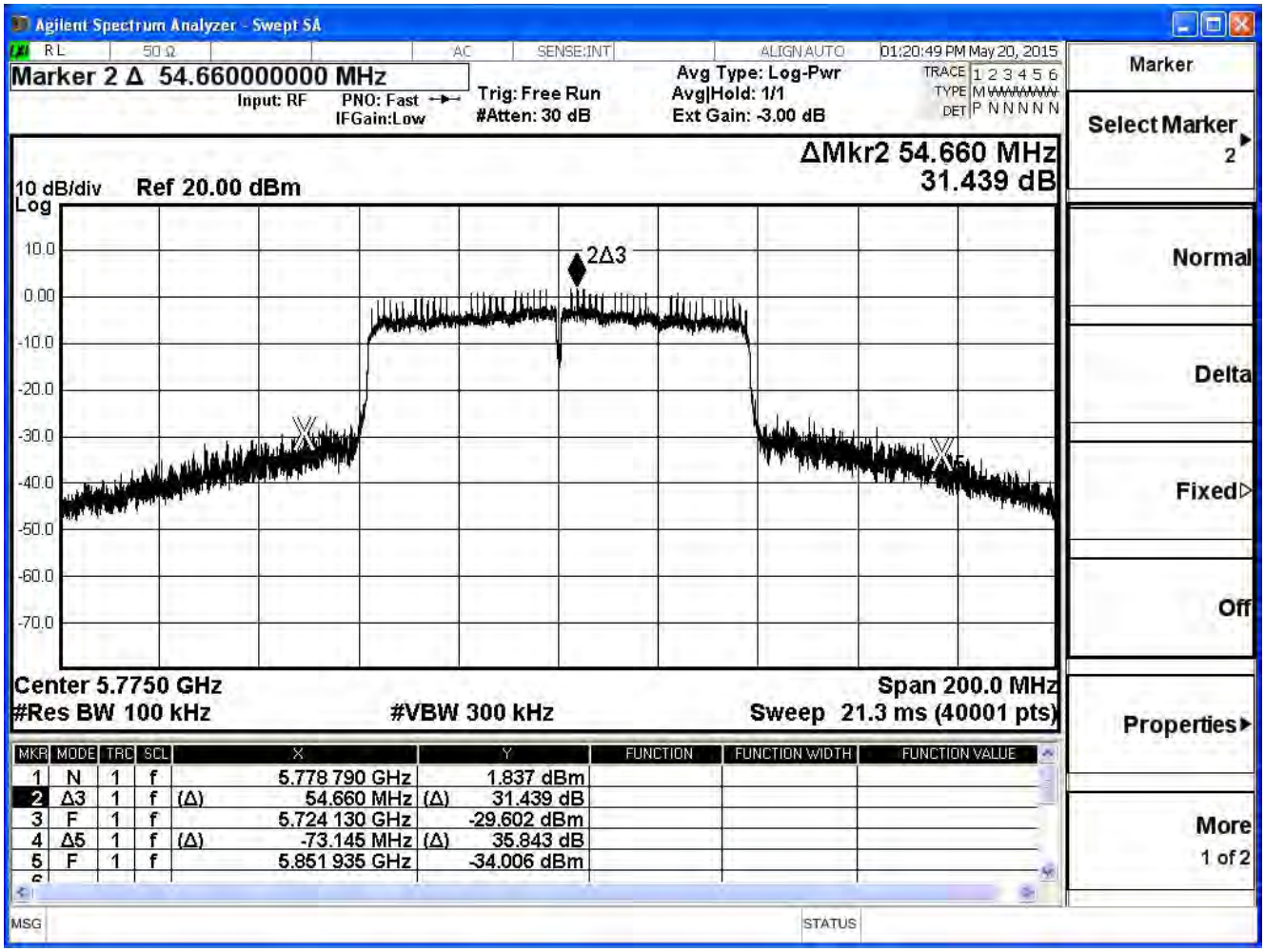
Channel 155 (5775MHz)



Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/20	Test Site	SR7

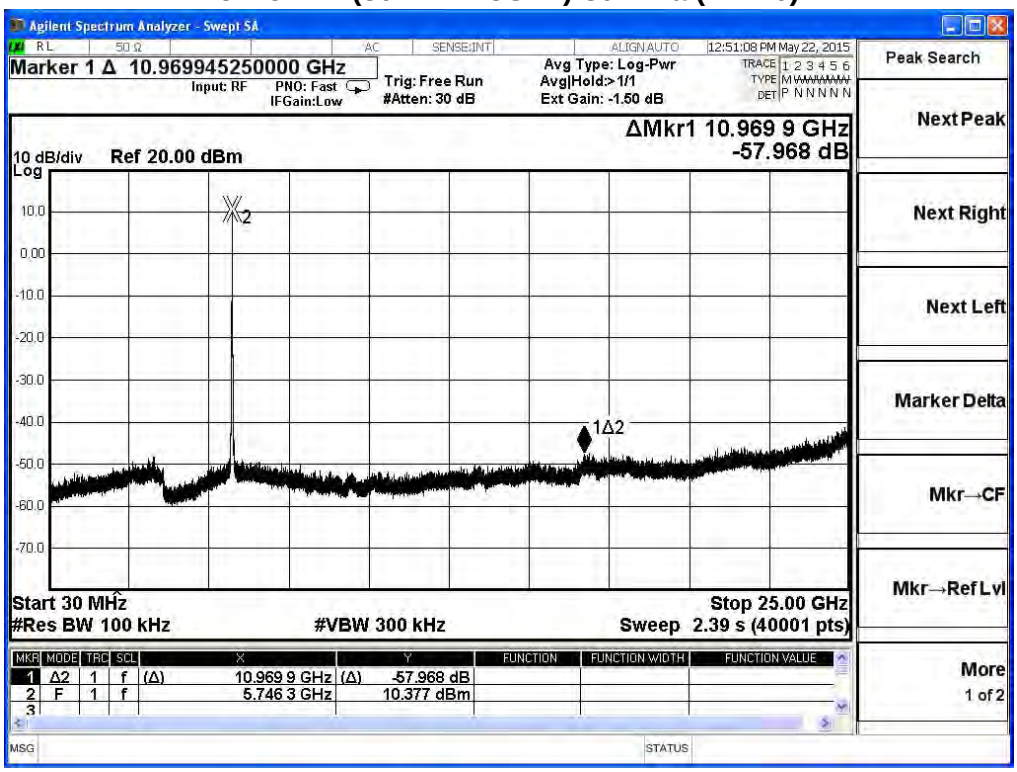
IEEE 802.11ac (80MHz), (ANT 1) Antenna Gain: 4dBi				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
155	5775	31.439	≧30	Pass

Channel 155 (5775MHz)

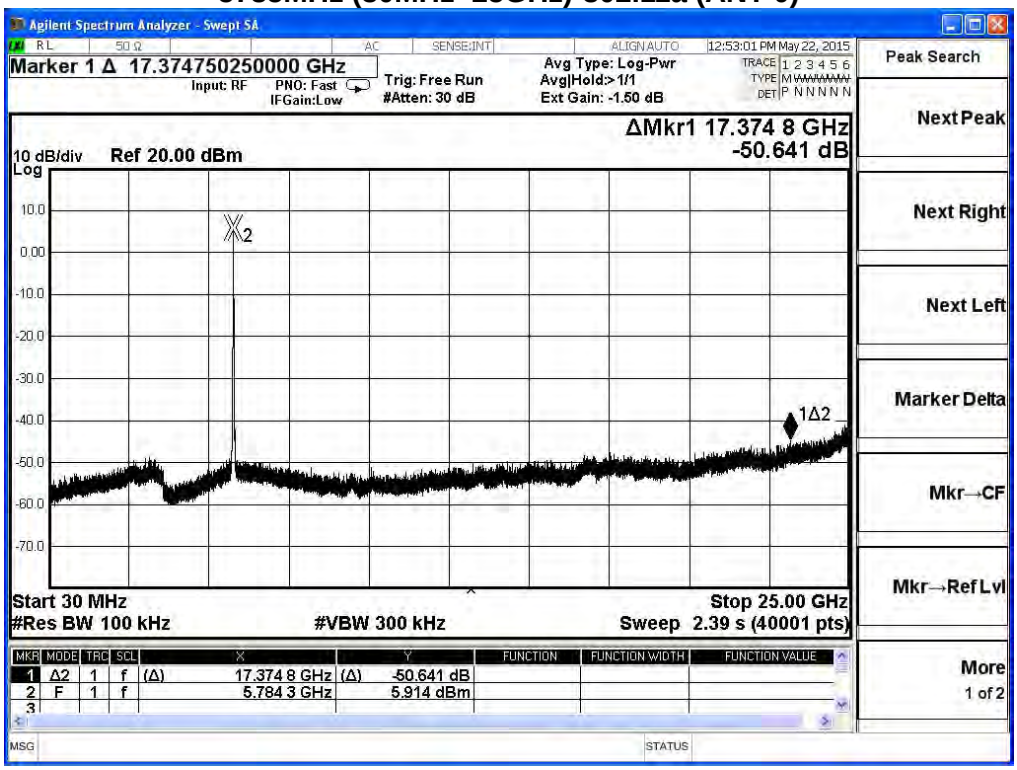


Product	Dual-band Wireless-AC1200 Range Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2015/05/22	Test Site	SR7

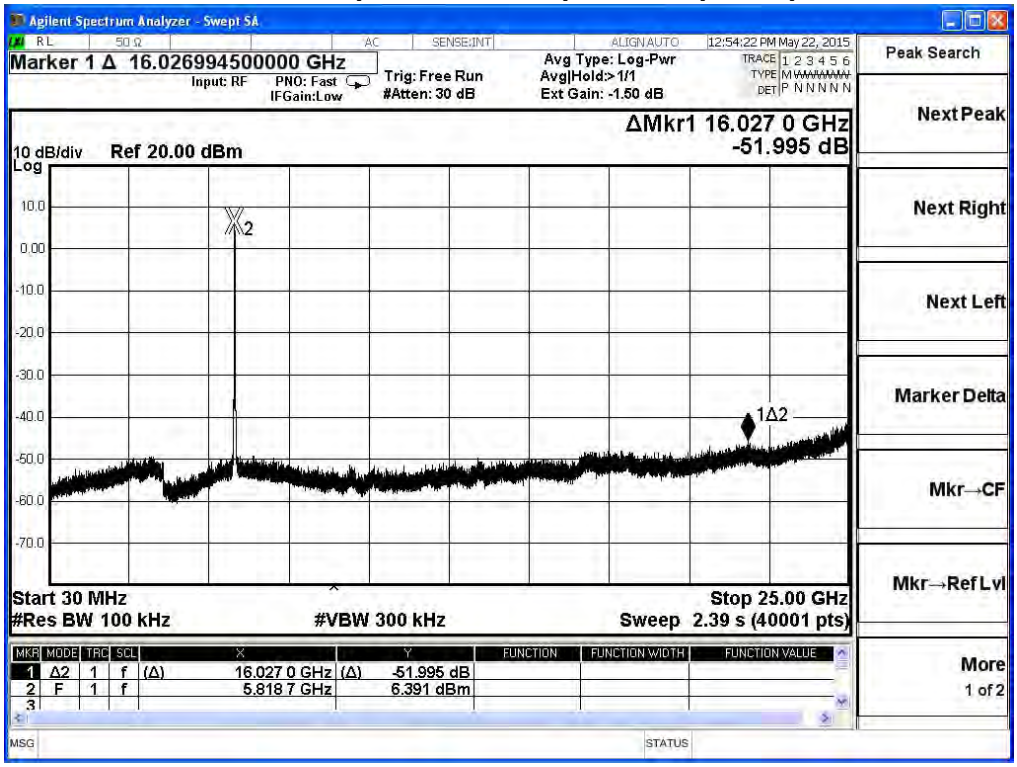
5745MHz (30MHz~25GHz)-802.11a (ANT 0)



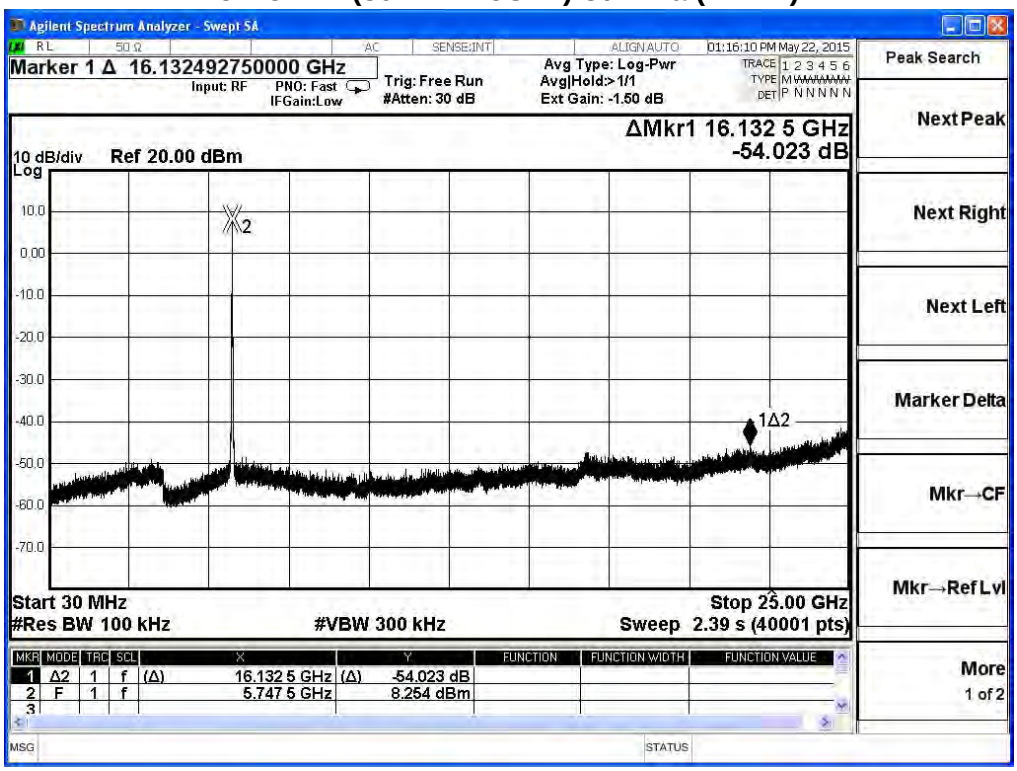
5785MHz (30MHz~25GHz)-802.11a (ANT 0)



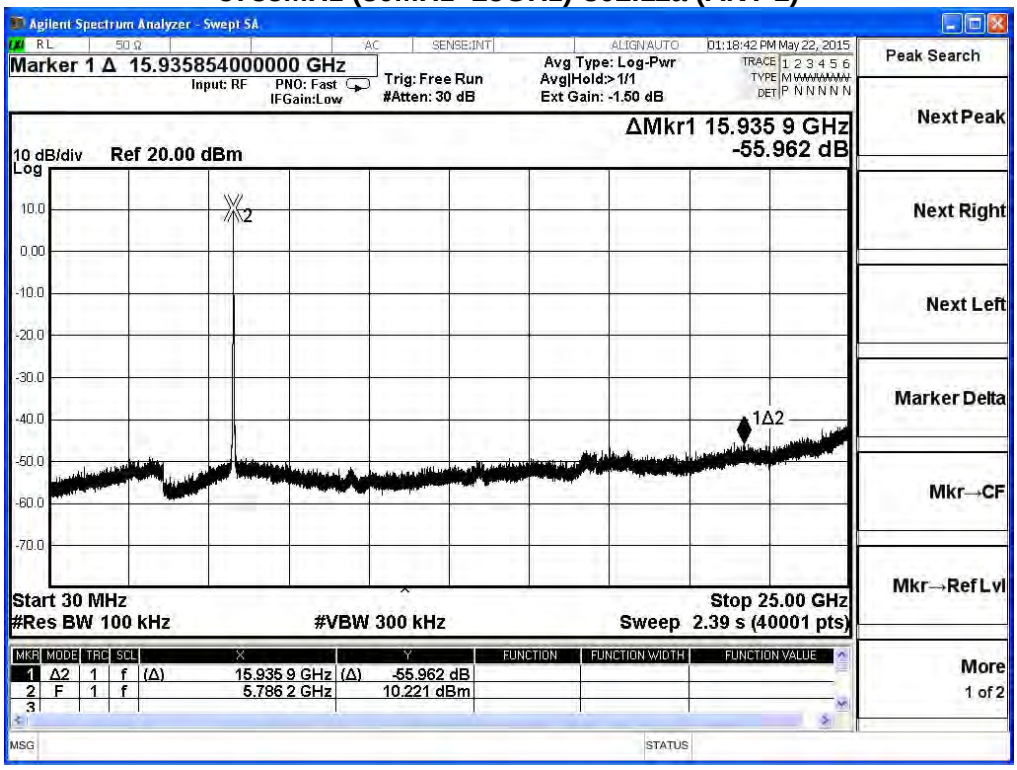
5825MHz (30MHz~25GHz)-802.11a (ANT 0)



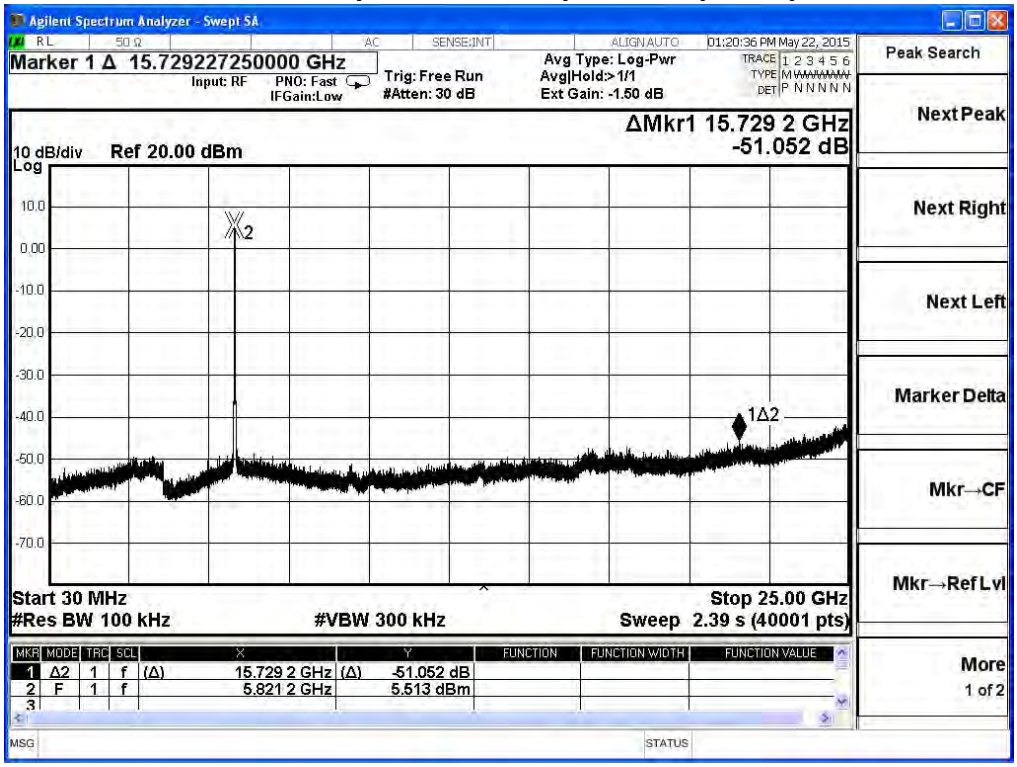
5745MHz (30MHz~25GHz)-802.11a (ANT 1)



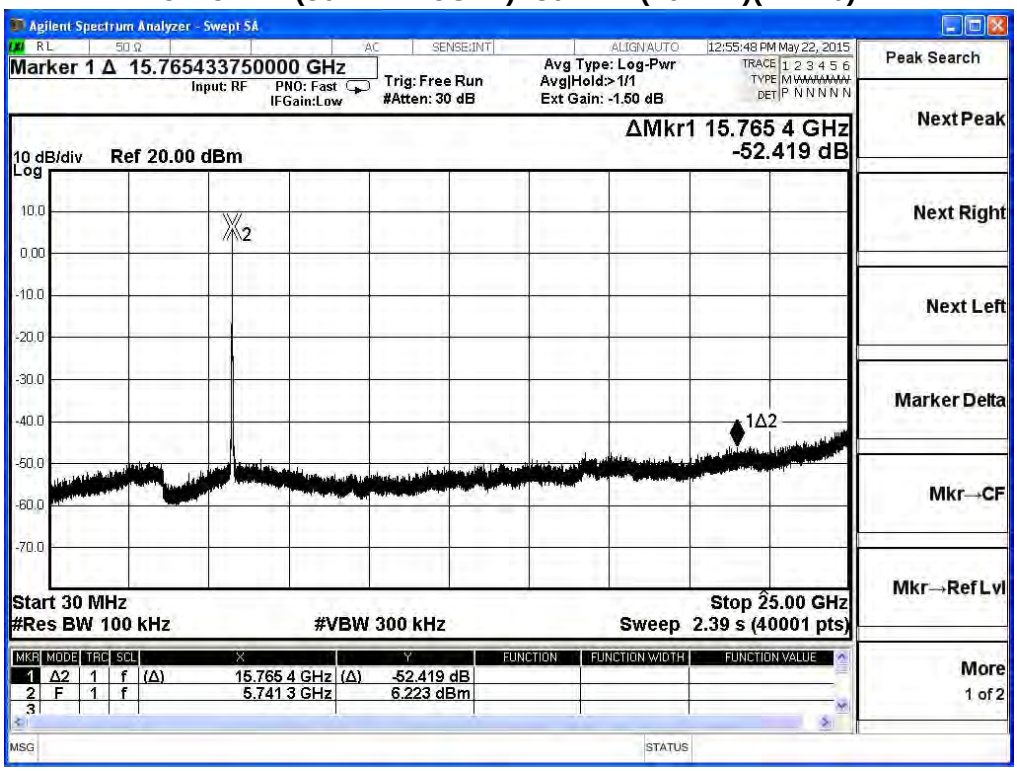
5785MHz (30MHz~25GHz)-802.11a (ANT 1)



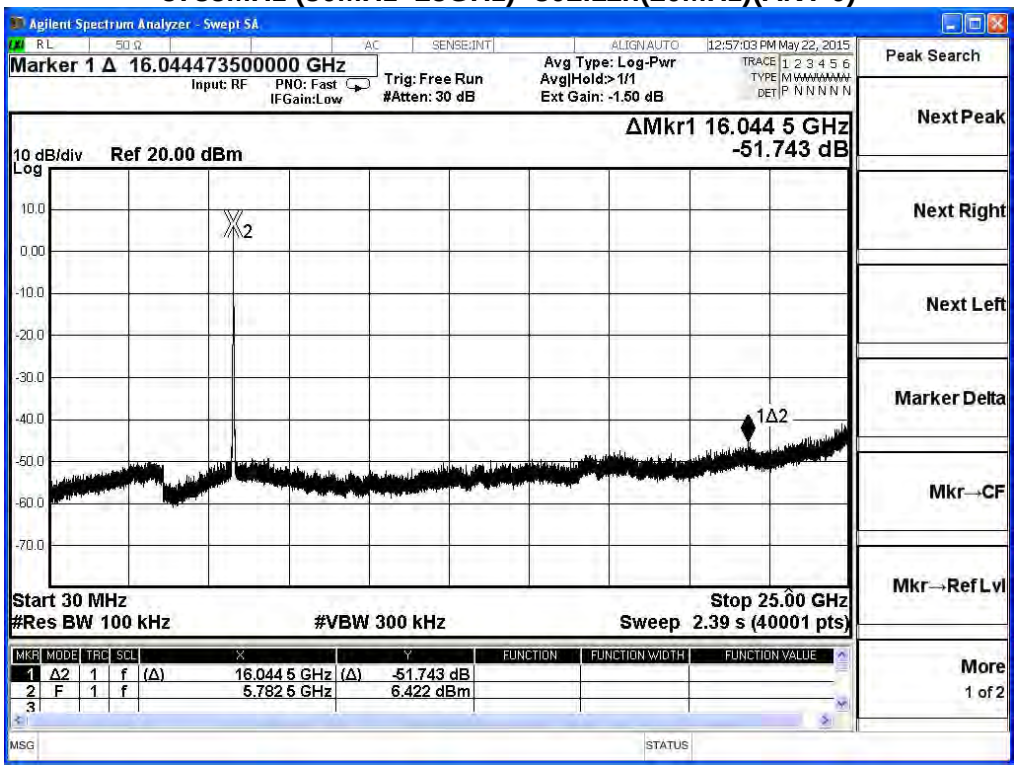
5825MHz (30MHz~25GHz)-802.11a (ANT 1)



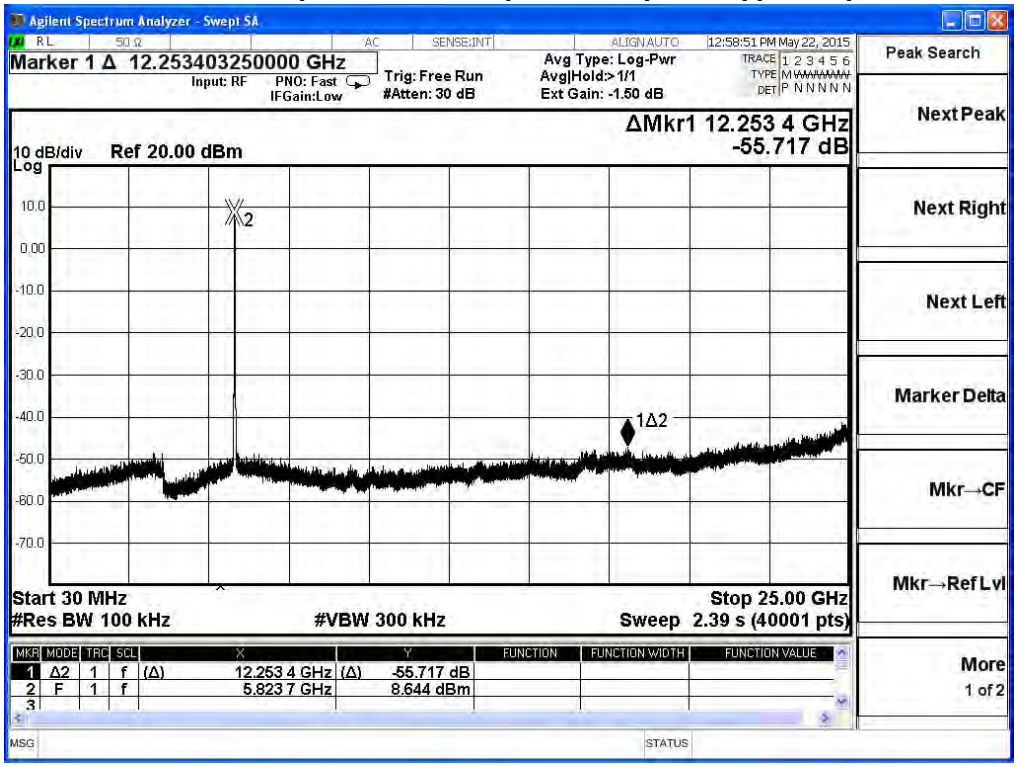
5745MHz (30MHz~25GHz)- 802.11n(20MHz)(ANT 0)



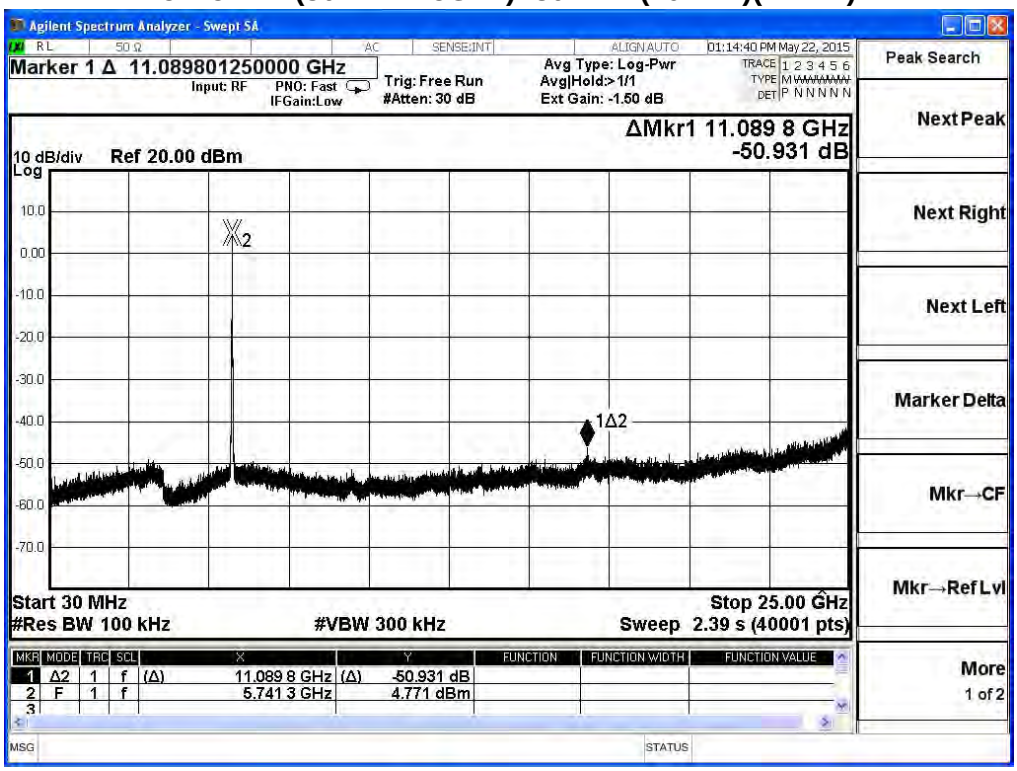
5785MHz (30MHz~25GHz)- 802.11n(20MHz)(ANT 0)



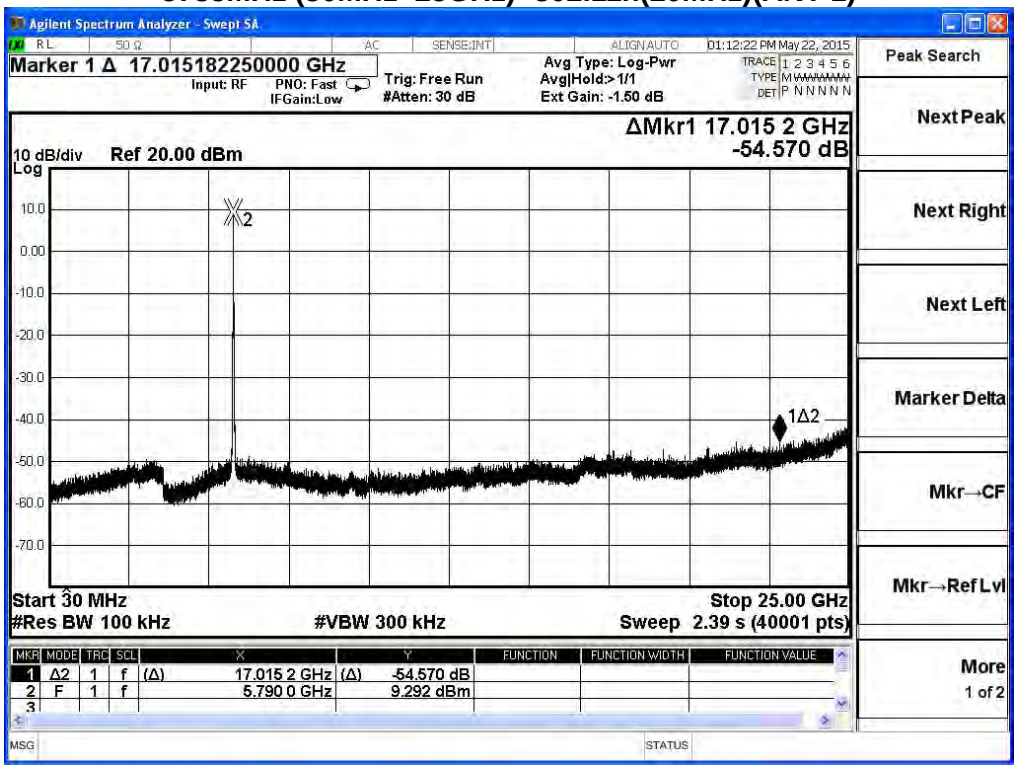
5825MHz (30MHz~25GHz)- 802.11n(20MHz)(ANT 0)



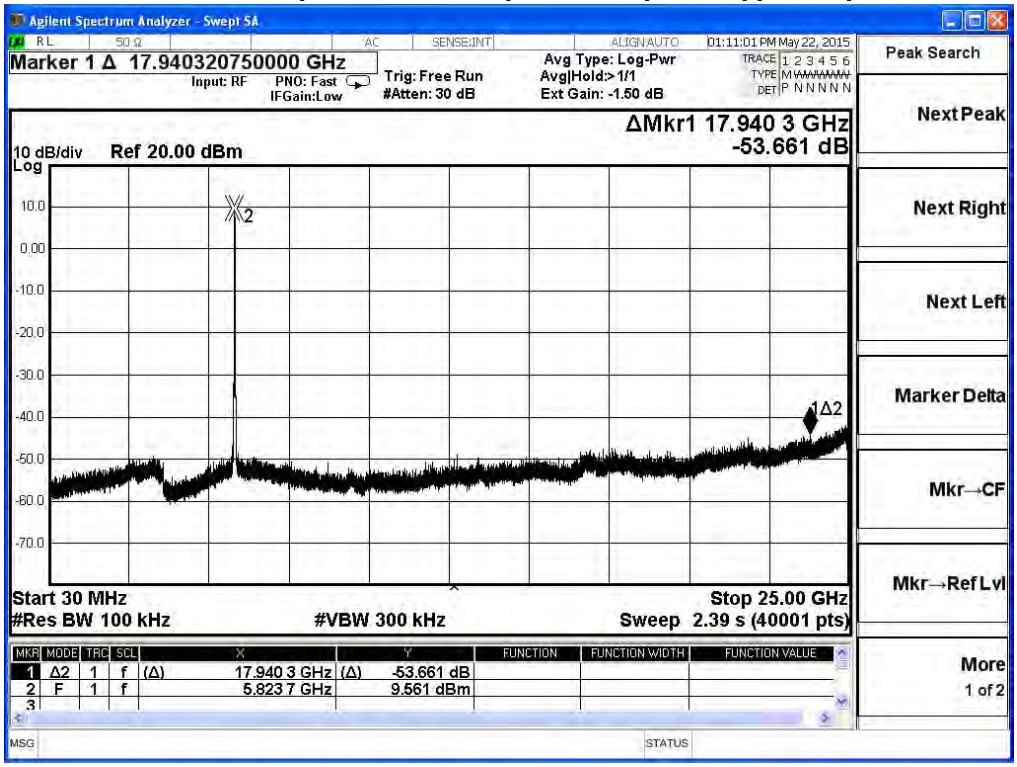
5745MHz (30MHz~25GHz)- 802.11n(20MHz)(ANT 1)



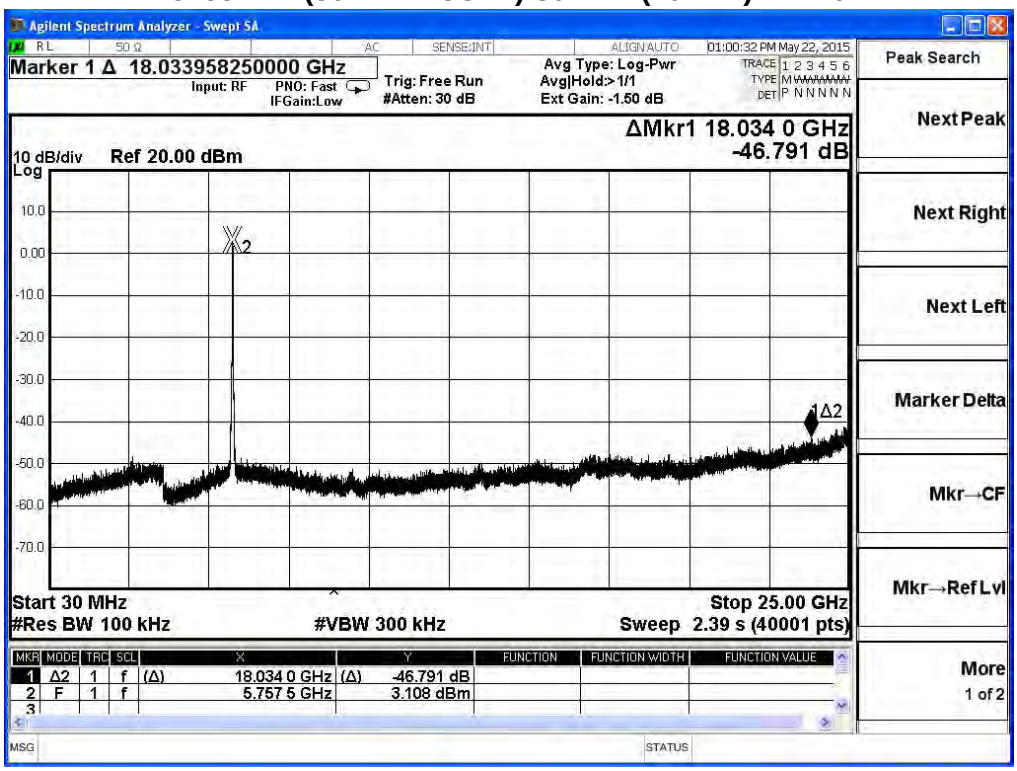
5785MHz (30MHz~25GHz)- 802.11n(20MHz)(ANT 1)



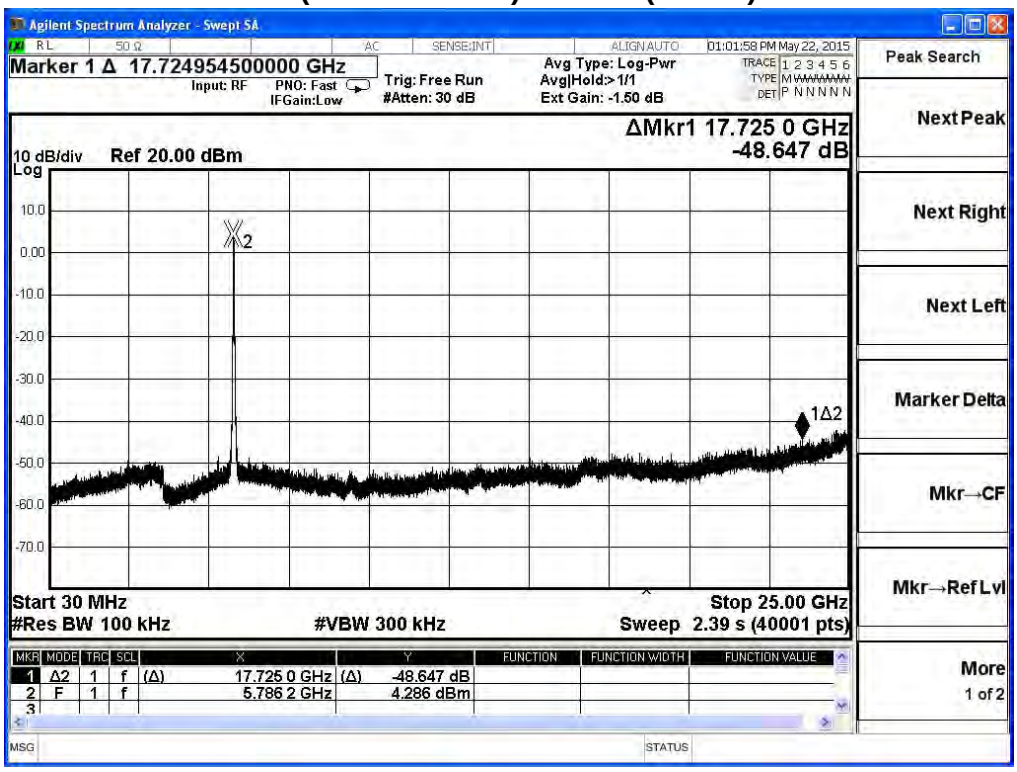
5825MHz (30MHz~25GHz)- 802.11n(20MHz)(ANT 1)



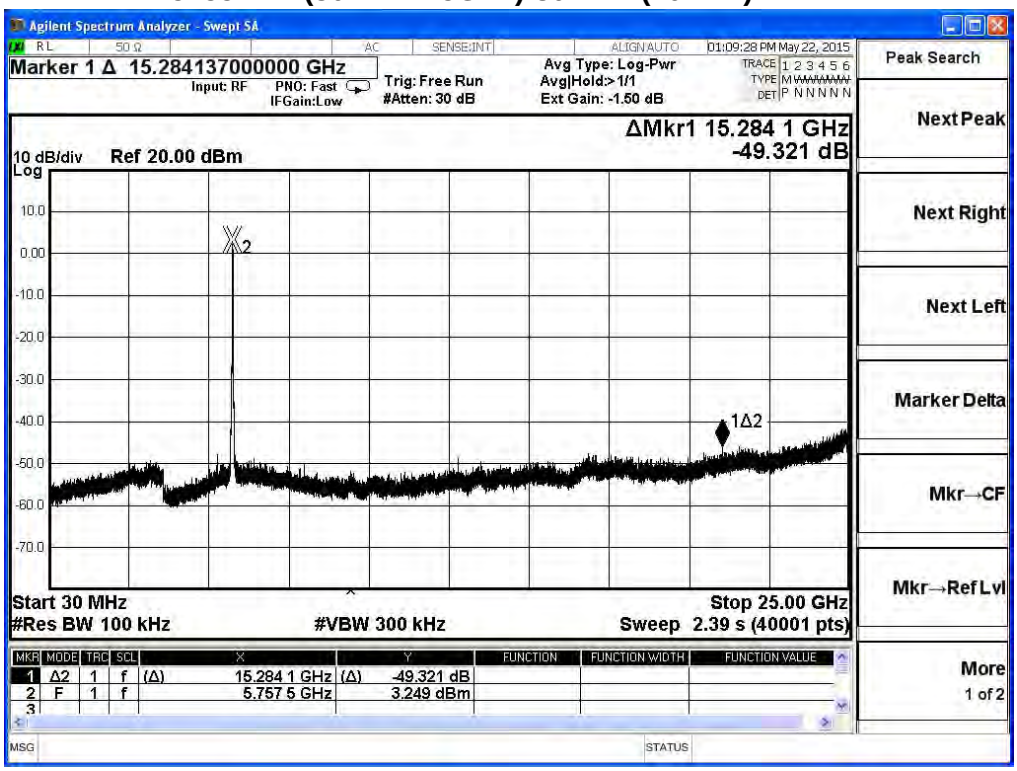
5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 0



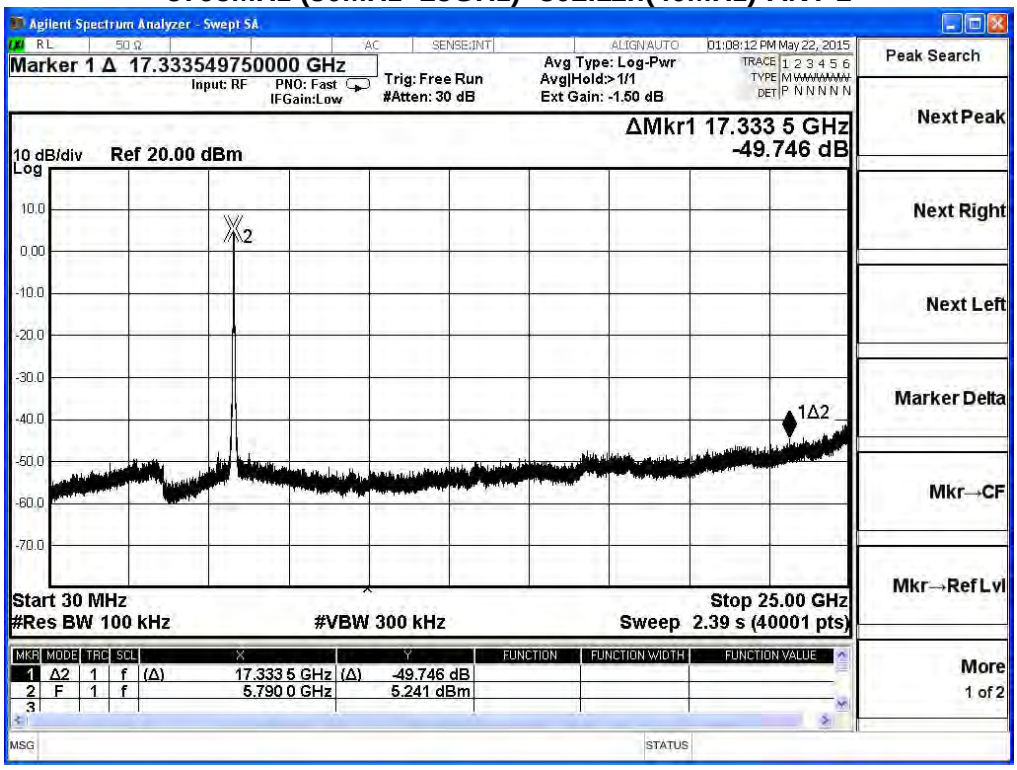
5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 0



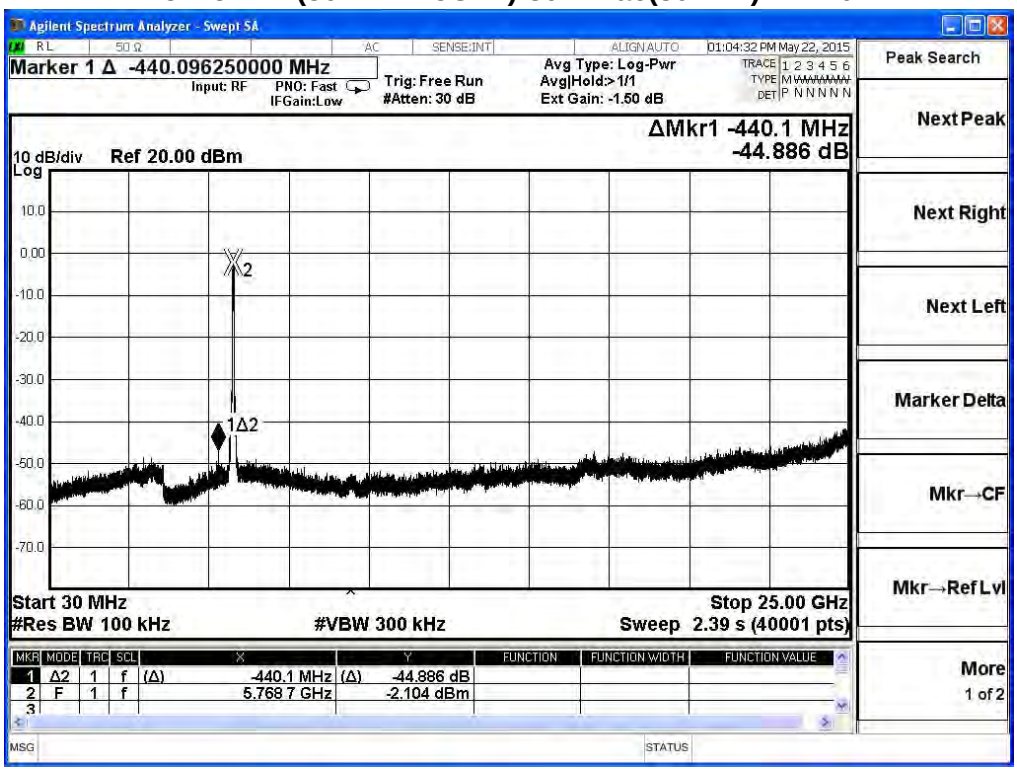
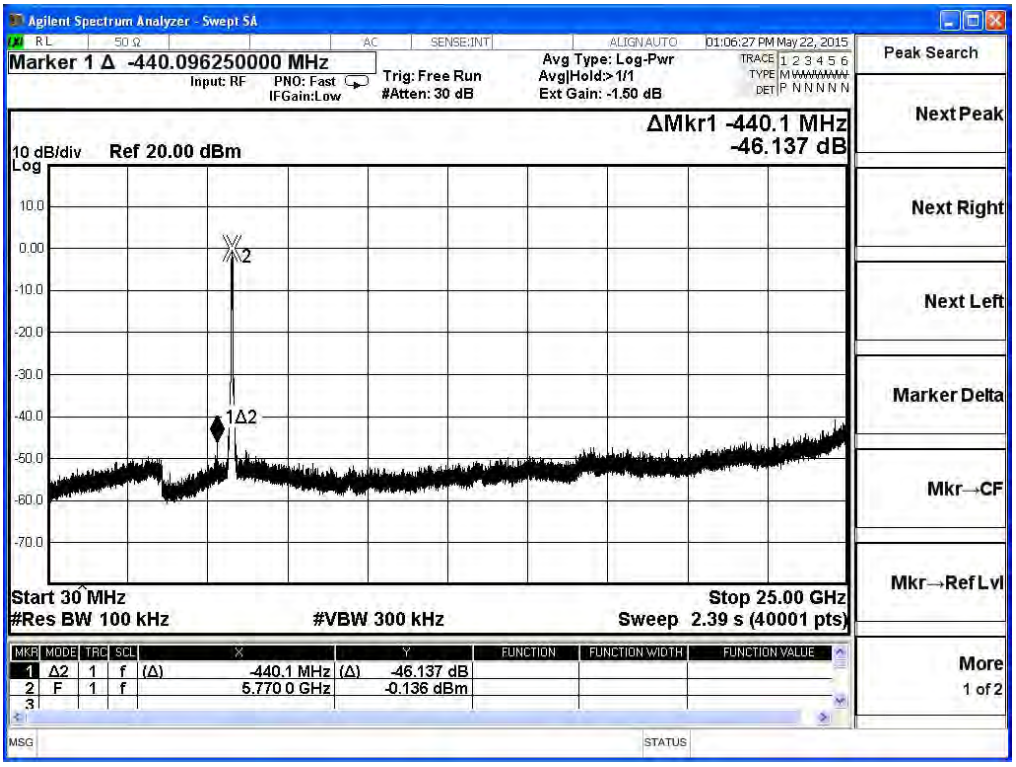
5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 1



5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 1



5775MHz (30MHz~25GHz)-802.11ac(80MHz)-ANT 0



5775MHz (30MHz~25GHz) -802.11ac(80MHz)-ANT 1