

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

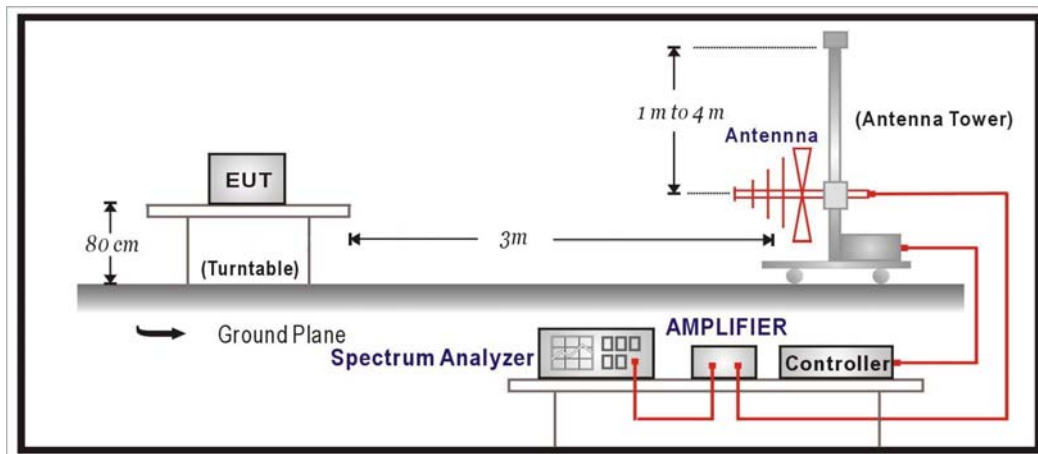
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	SCHAFFNER	CBL6112B	2895	2013/08/14
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120D	743	2013/02/02
Pre-Amplifier	MITEQ	AMF-4D-005180-24-10P	888003	2012/12/05
Pre-Amplifier	Quietek	AP-025C	CHM-0706049	2013/03/01
Spectrum Analyzer	Agilent	E4440A	MY46187335	2013/02/07
Coaxial Cable	Huber+Suhner AG	Sucoflex 102	25623/2	2013/03/04

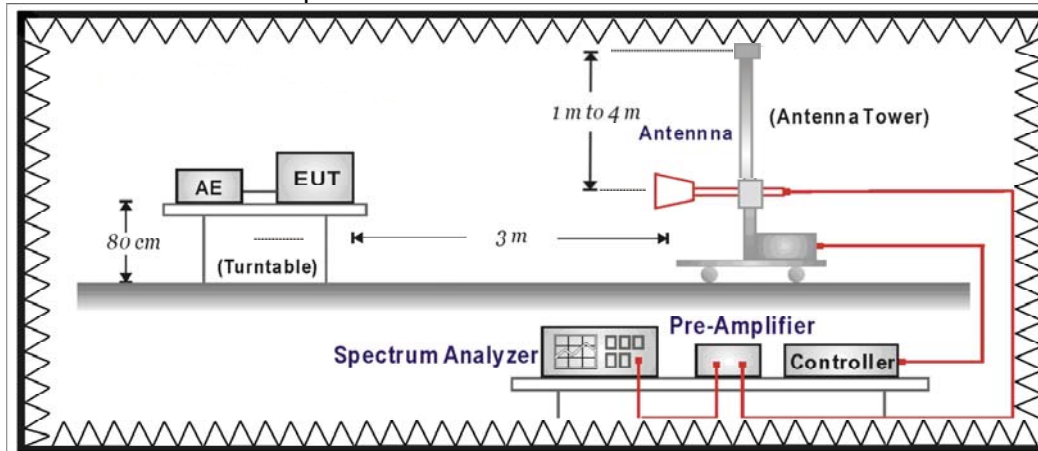
Note: 1. All equipments that need to calibrate are with calibration period of 1 year.

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 C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 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 C63.4: 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: 2011

4.6. Uncertainty

The measurement uncertainty

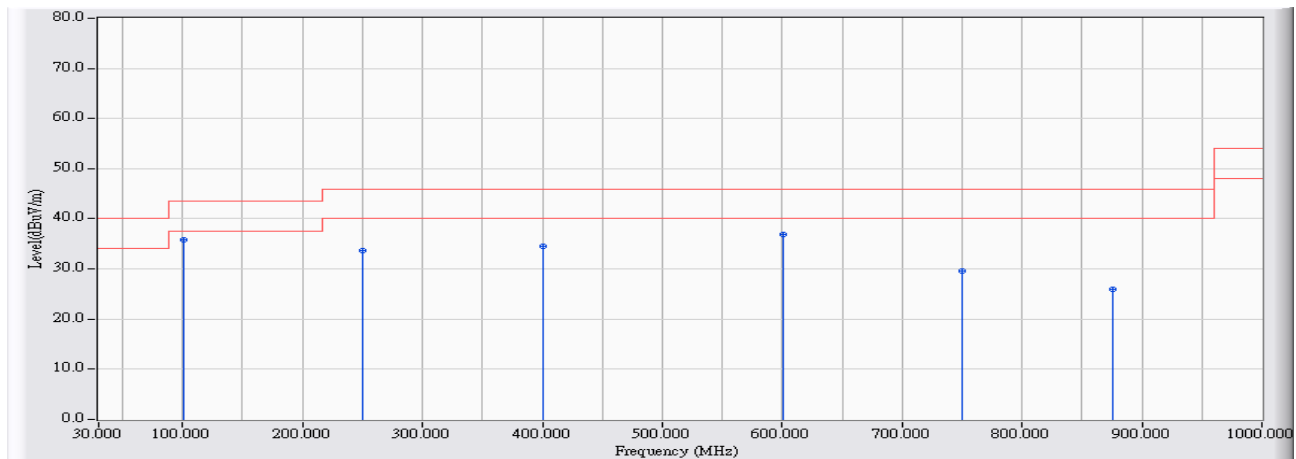
30MHz~1GHz as ±3.43dB

1GHz~26.5Ghz as ±3.65dB

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	Time : 2012/09/03 - 13:03
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11b_2437MHz

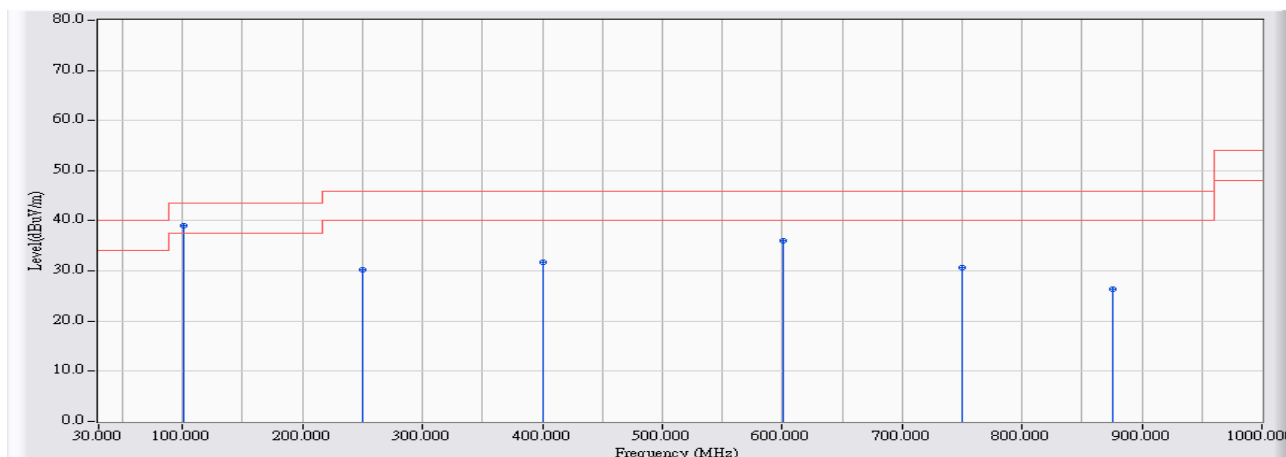


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-8.977	44.883	35.906	-7.594	43.500	QUASIPeAK
2		249.867	-13.634	47.390	33.756	-12.244	46.000	QUASIPeAK
3		400.217	-11.027	45.516	34.489	-11.511	46.000	QUASIPeAK
4		600.683	-7.125	44.088	36.963	-9.037	46.000	QUASIPeAK
5		749.417	-8.717	38.269	29.553	-16.447	46.000	QUASIPeAK
6		875.517	-8.997	35.048	26.051	-19.949	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 : 2012/09/03 - 13:06
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V / 60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11b_2437MHz

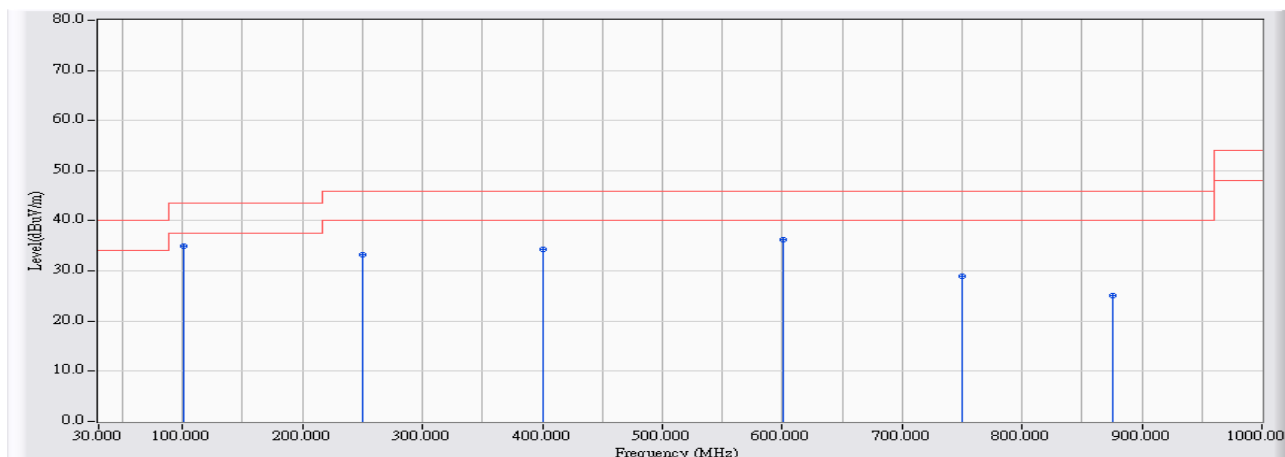


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-8.977	48.024	39.047	-4.453	43.500	QUASPEAK
2		249.867	-13.634	43.808	30.174	-15.826	46.000	QUASPEAK
3		400.217	-11.027	42.768	31.741	-14.259	46.000	QUASPEAK
4		600.683	-7.125	43.117	35.992	-10.008	46.000	QUASPEAK
5		749.417	-8.717	39.300	30.584	-15.416	46.000	QUASPEAK
6		875.517	-8.997	35.294	26.297	-19.703	46.000	QUASPEAK

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 : 2012/09/03 - 13:10
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11g_2437MHz

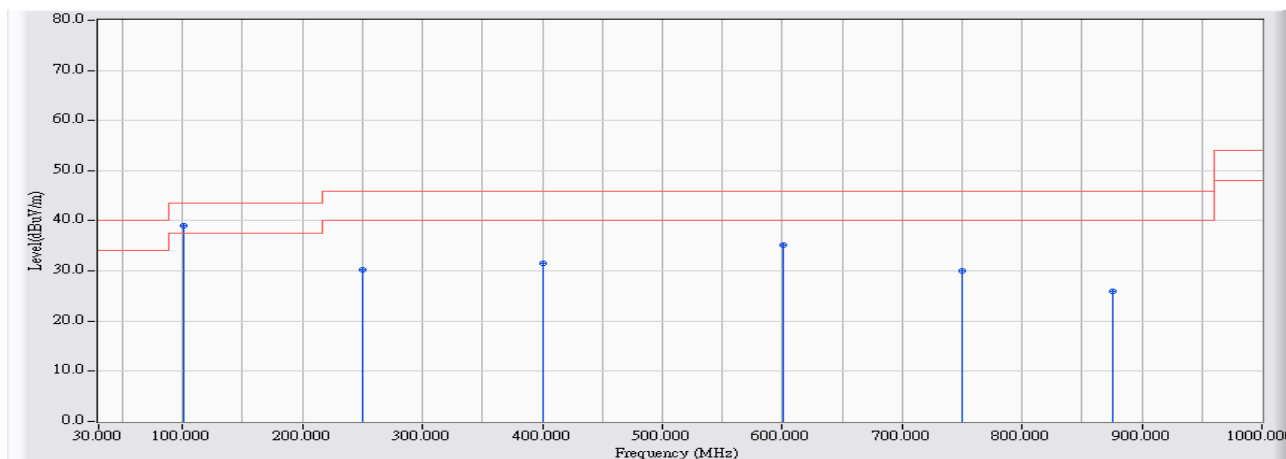


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-8.977	43.898	34.921	-8.579	43.500	QUASPEAK
2		249.867	-13.634	46.971	33.337	-12.663	46.000	QUASPEAK
3		400.217	-11.027	45.278	34.251	-11.749	46.000	QUASPEAK
4		600.683	-7.125	43.454	36.329	-9.671	46.000	QUASPEAK
5		749.417	-8.717	37.647	28.931	-17.069	46.000	QUASPEAK
6		875.517	-8.997	34.082	25.085	-20.915	46.000	QUASPEAK

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 : 2012/09/03 - 13:14
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V / 60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11g_2437MHz

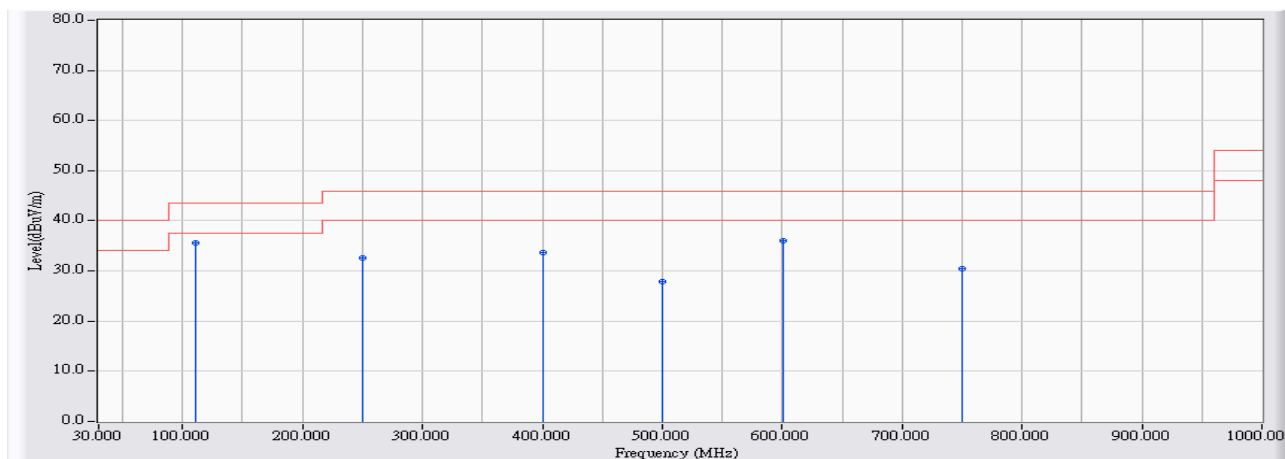


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-8.977	48.005	39.028	-4.472	43.500	QUASPEAK
2		249.867	-13.634	43.773	30.139	-15.861	46.000	QUASPEAK
3		400.217	-11.027	42.574	31.547	-14.453	46.000	QUASPEAK
4		600.683	-7.125	42.369	35.244	-10.756	46.000	QUASPEAK
5		749.417	-8.717	38.670	29.954	-16.046	46.000	QUASPEAK
6		875.517	-8.997	34.882	25.885	-20.115	46.000	QUASPEAK

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 : 2012/09/03 - 13:19
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(20MHz)_2437MHz

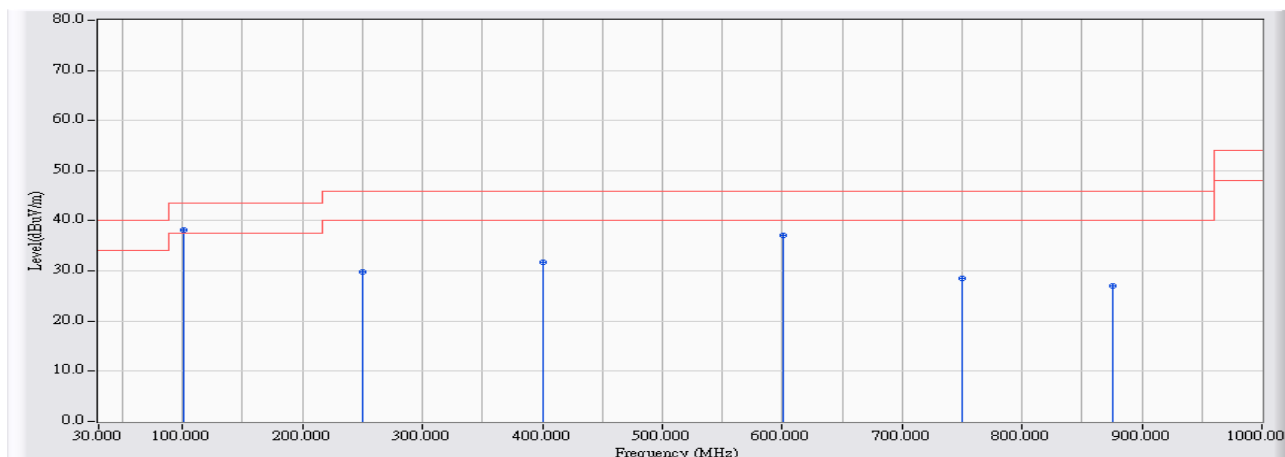


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	110.833	-8.766	44.309	35.543	-7.957	43.500	QUASPEAK
2		249.867	-13.634	46.179	32.545	-13.455	46.000	QUASPEAK
3		400.217	-11.027	44.677	33.650	-12.350	46.000	QUASPEAK
4		500.450	-9.756	37.609	27.854	-18.146	46.000	QUASPEAK
5		600.683	-7.125	43.240	36.115	-9.885	46.000	QUASPEAK
6		749.417	-8.717	39.248	30.532	-15.468	46.000	QUASPEAK

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 : 2012/09/03 - 13:23
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V / 60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(20MHz)_2437MHz

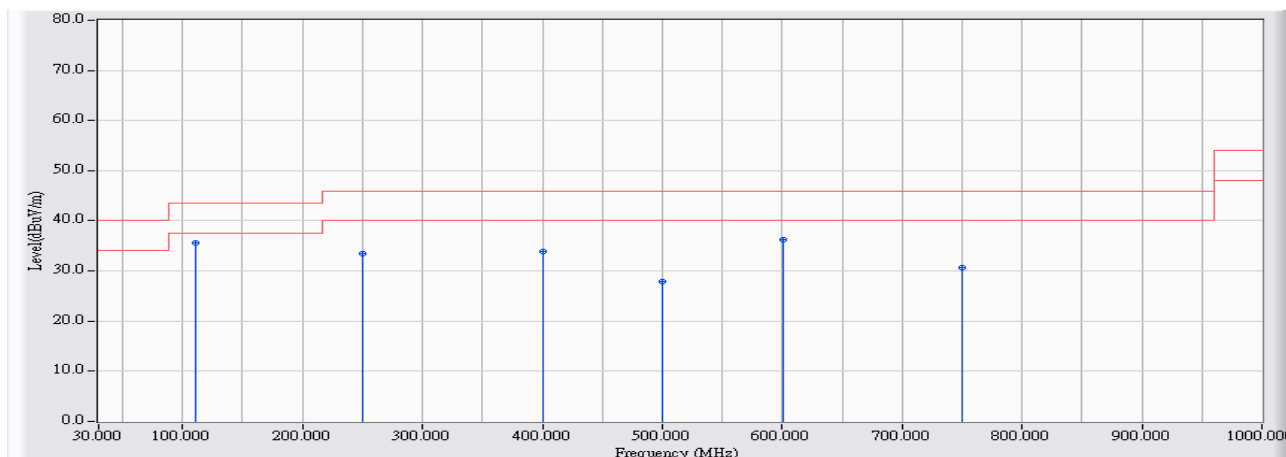


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-8.977	47.070	38.093	-5.407	43.500	QUASPEAK
2		249.867	-13.634	43.552	29.918	-16.082	46.000	QUASPEAK
3		400.217	-11.027	42.670	31.643	-14.357	46.000	QUASPEAK
4		600.683	-7.125	44.186	37.061	-8.939	46.000	QUASPEAK
5		749.417	-8.717	37.265	28.549	-17.451	46.000	QUASPEAK
6		875.517	-8.997	35.999	27.002	-18.998	46.000	QUASPEAK

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 : 2012/09/03 - 13:28
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - HORIZONTAL	Power : AC 120V / 60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(40MHz)_2437MHz

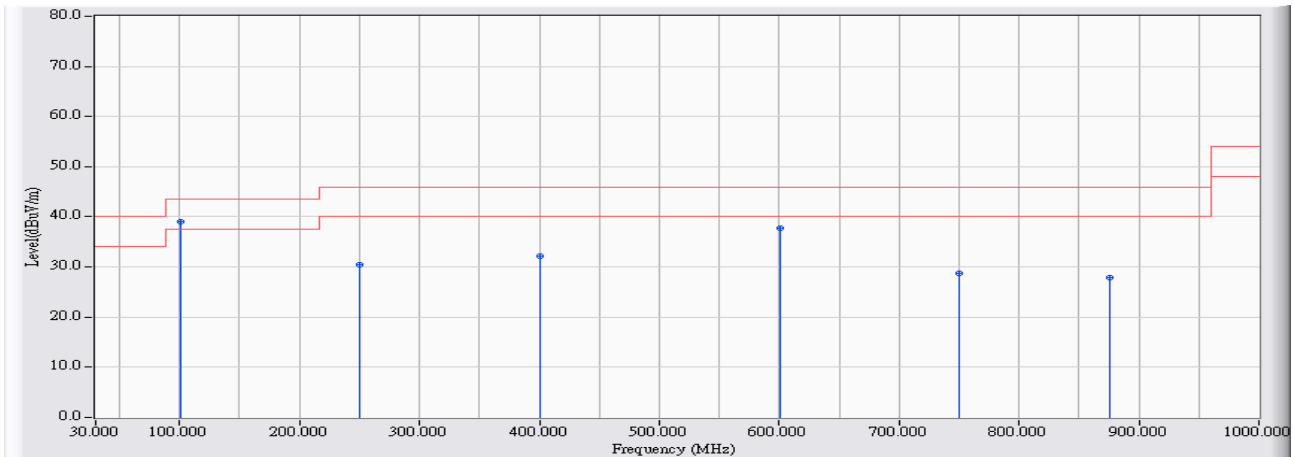


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	110.833	-8.766	44.319	35.553	-7.947	43.500	QUASPEAK
2		249.867	-13.634	47.142	33.508	-12.492	46.000	QUASPEAK
3		400.217	-11.027	44.833	33.806	-12.194	46.000	QUASPEAK
4		500.450	-9.756	37.735	27.980	-18.020	46.000	QUASPEAK
5		600.683	-7.125	43.410	36.285	-9.715	46.000	QUASPEAK
6		749.417	-8.717	39.388	30.672	-15.328	46.000	QUASPEAK

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 : 2012/09/03 - 13:31
Limit : FCC_CLASS_B_03M_QP	Margin : 6
Probe : CB1_FCC_EFS_30-1G-1_0901 - VERTICAL	Power : AC 120V / 60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(40MHz)_2437MHz



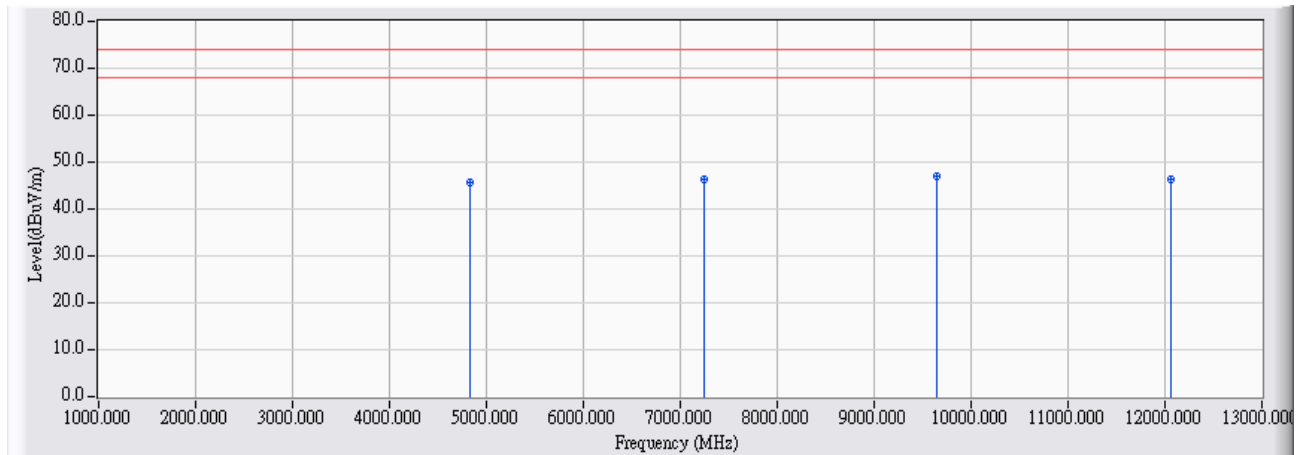
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	101.133	-8.977	48.046	39.069	-4.431	43.500	QUASPEAK
2		249.867	-13.634	44.109	30.475	-15.525	46.000	QUASPEAK
3		400.217	-11.027	43.287	32.260	-13.740	46.000	QUASPEAK
4		600.683	-7.125	44.949	37.824	-8.176	46.000	QUASPEAK
5		749.417	-8.717	37.517	28.801	-17.199	46.000	QUASPEAK
6		875.517	-8.997	36.918	27.921	-18.079	46.000	QUASPEAK

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 : 2012/08/06 - 17:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11B_2412MHz

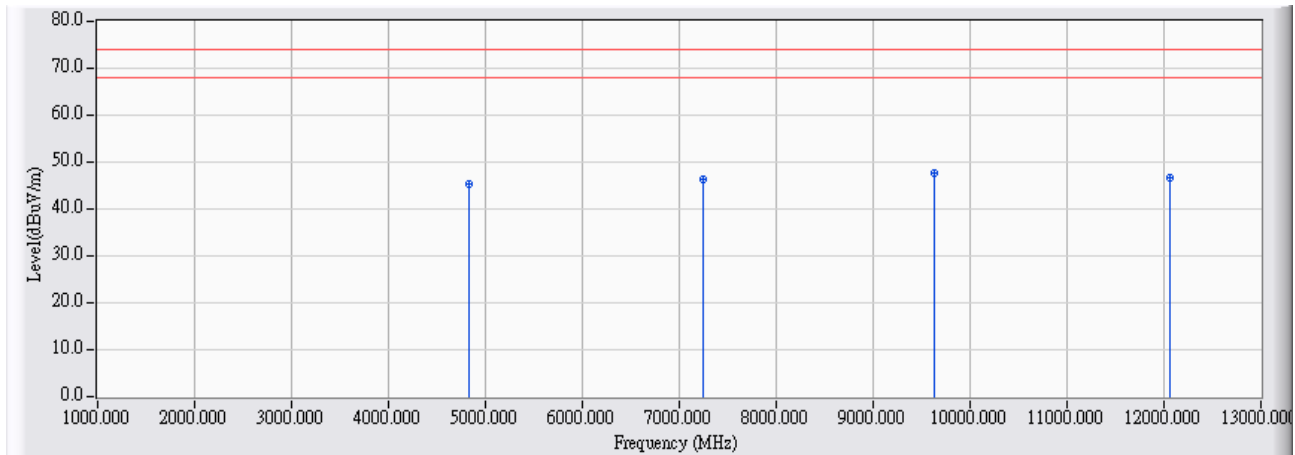


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4823.920	1.655	44.100	45.754	-28.246	74.000	PEAK
2	7238.830	8.175	38.070	46.245	-27.755	74.000	PEAK
3	* 9648.580	9.946	37.010	46.957	-27.043	74.000	PEAK
4	12060.670	9.923	36.290	46.212	-27.788	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 : 2012/08/06 - 17:27
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11B_2412MHz

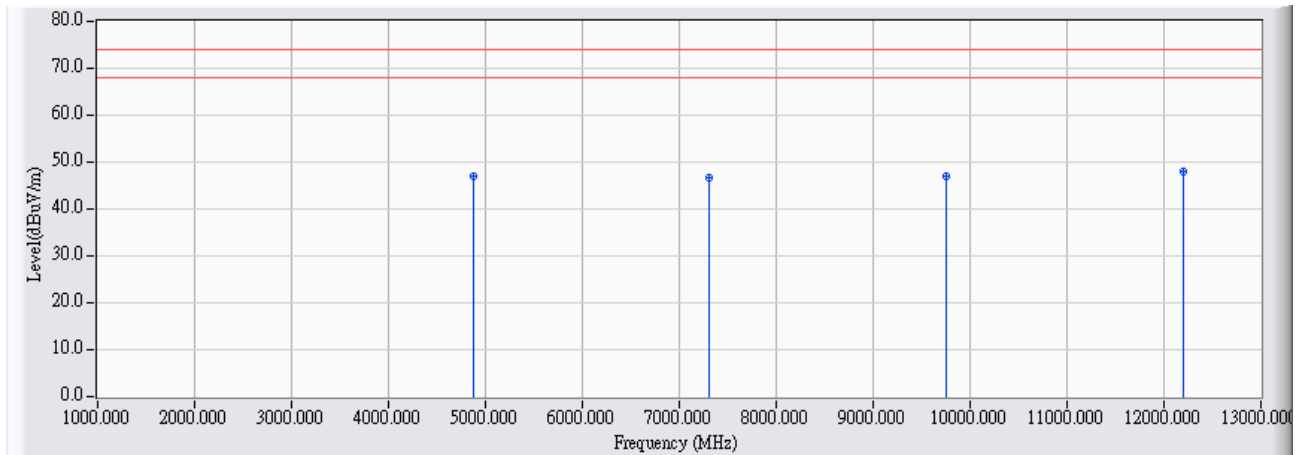


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4824.420	1.657	43.740	45.397	-28.603	74.000	PEAK
2	7242.330	8.184	38.010	46.194	-27.806	74.000	PEAK
3	* 9636.000	9.920	37.900	47.820	-26.180	74.000	PEAK
4	12059.830	9.916	36.590	46.506	-27.494	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 : 2012/08/06 - 17:15
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11B_2437MHz

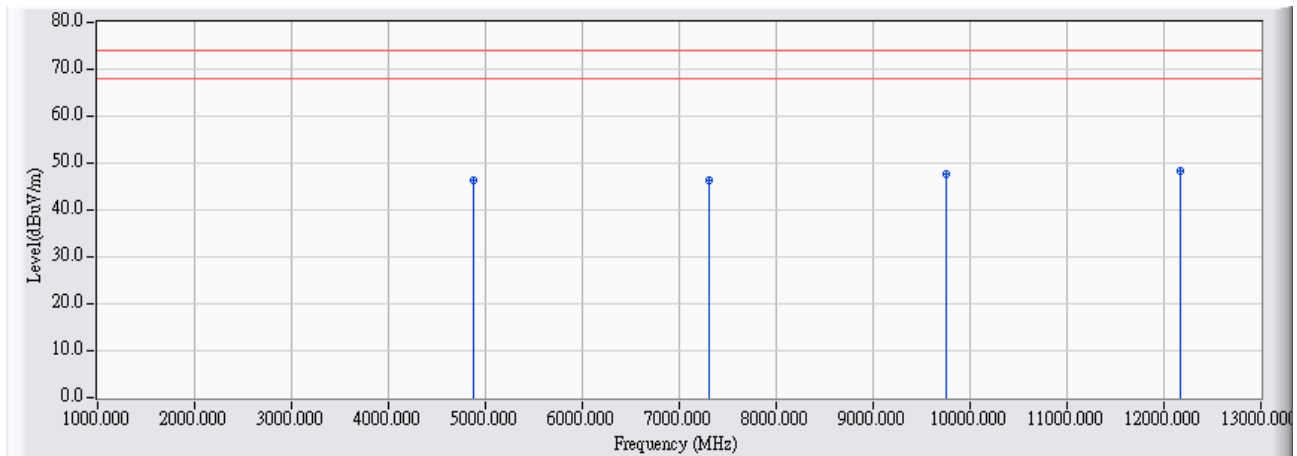


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4874.080	1.956	45.210	47.166	-26.834	74.000	PEAK
2	7313.750	8.376	38.130	46.506	-27.494	74.000	PEAK
3	9751.170	10.170	36.820	46.990	-27.010	74.000	PEAK
4	* 12198.580	11.041	36.920	47.961	-26.039	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 : 2012/08/06 - 17:19
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11B_2437MHz

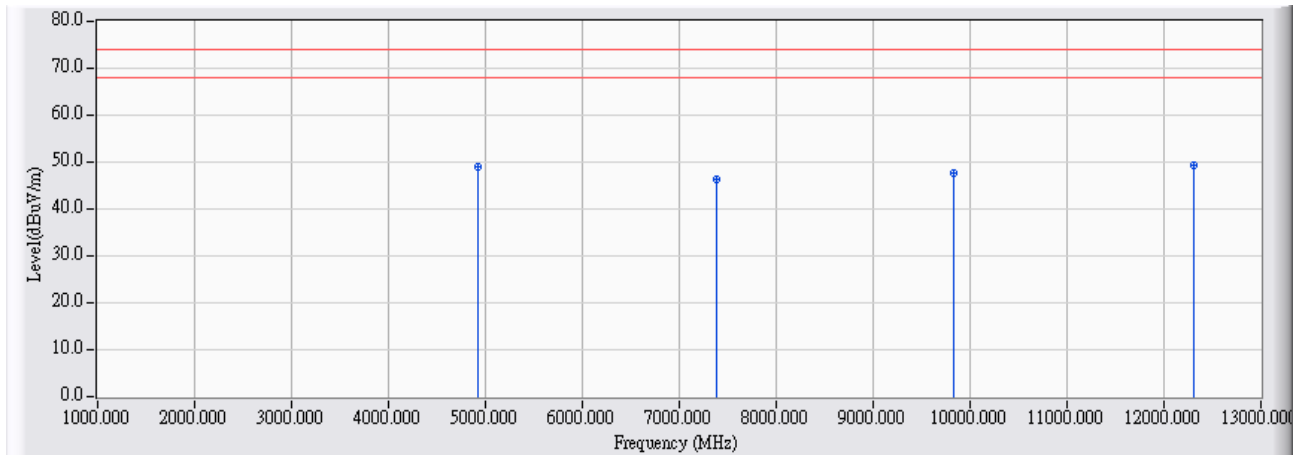


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4874.170	1.957	44.420	46.377	-27.623	74.000	PEAK
2	7306.250	8.356	37.920	46.276	-27.724	74.000	PEAK
3	9759.080	10.187	37.360	47.547	-26.453	74.000	PEAK
4	* 12176.420	10.862	37.550	48.412	-25.588	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 : 2012/08/06 - 17:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11B_2462MHz

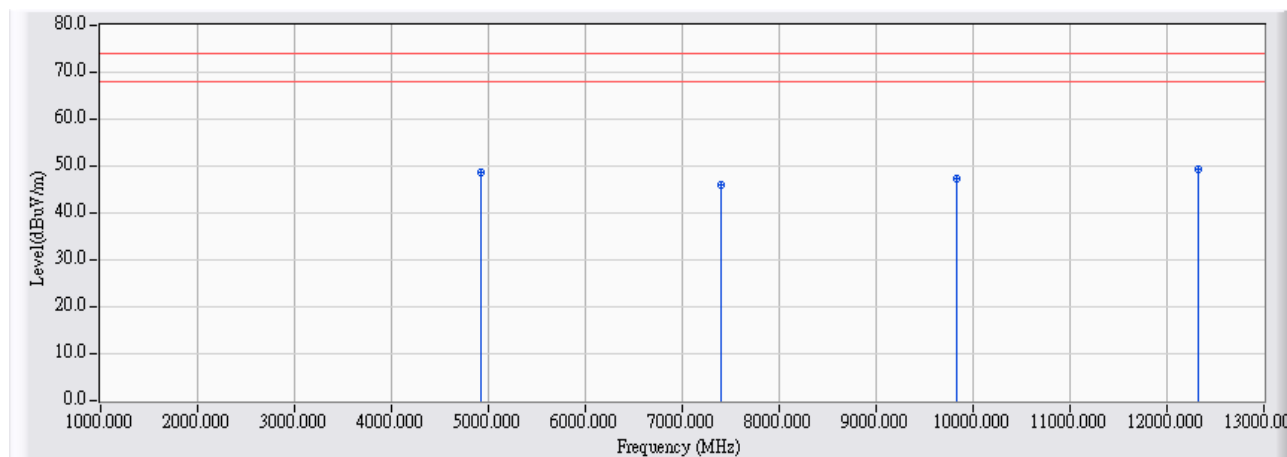


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4923.830	2.210	46.790	48.999	-25.001	74.000	PEAK
2	7377.080	8.595	37.710	46.304	-27.696	74.000	PEAK
3	9835.500	10.357	37.200	47.556	-26.444	74.000	PEAK
4	* 12311.080	11.916	37.460	49.376	-24.624	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 : 2012/08/06 - 17:11
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11B_2462MHz

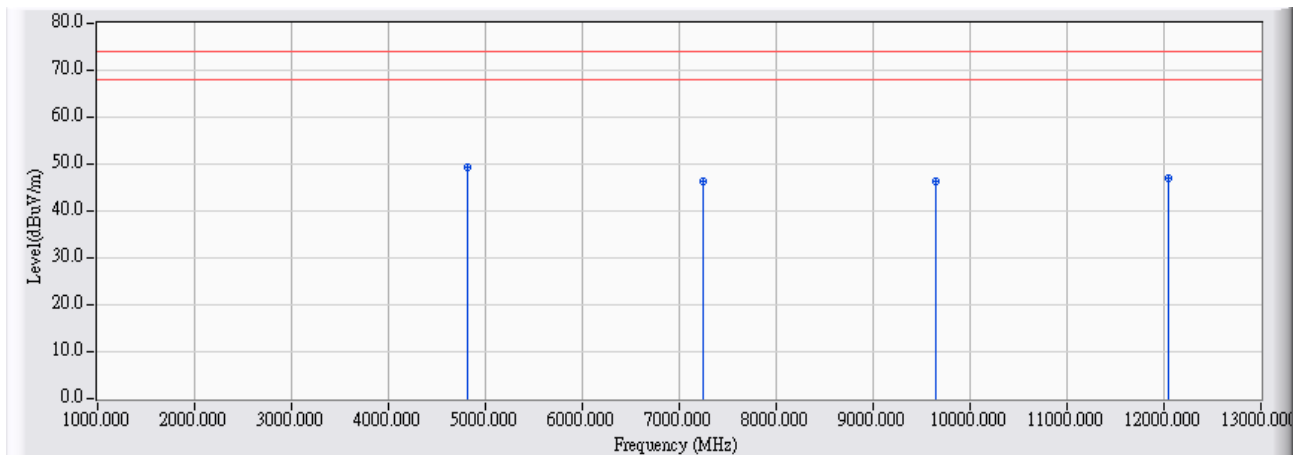


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4923.920	2.210	46.610	48.819	-25.181	74.000	PEAK
2	7393.750	8.671	37.430	46.102	-27.898	74.000	PEAK
3	9832.250	10.348	37.090	47.438	-26.562	74.000	PEAK
4	* 12329.830	12.026	37.190	49.215	-24.785	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 : 2012/08/06 - 16:40
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11G_2412MHz

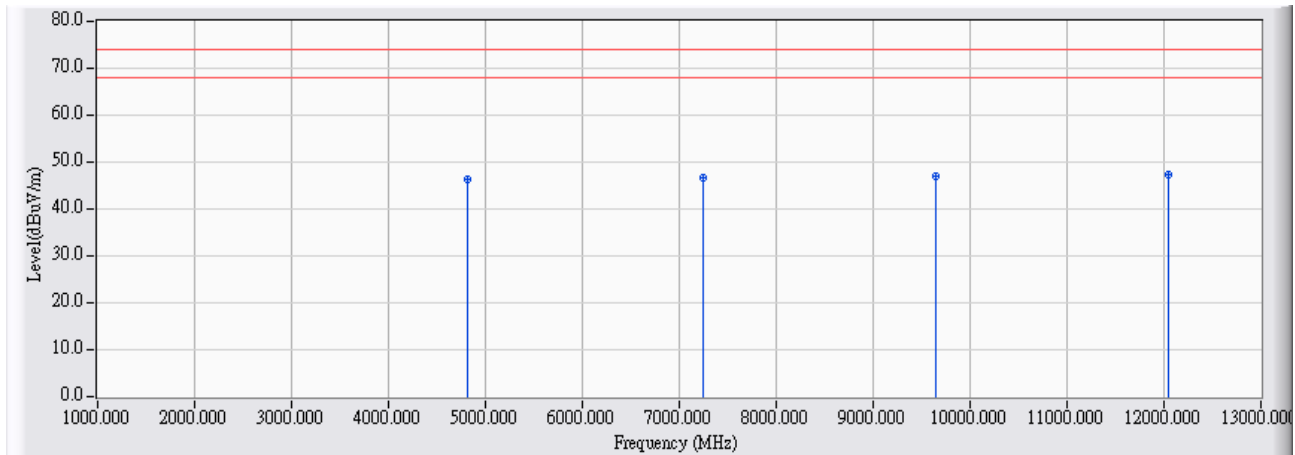


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4822.750	1.647	47.690	49.337	-24.663	74.000	PEAK
2		7246.580	8.196	38.070	46.265	-27.735	74.000	PEAK
3		9649.420	9.949	36.450	46.399	-27.601	74.000	PEAK
4		12040.580	9.760	37.280	47.039	-26.961	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 : 2012/08/06 - 16:43
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11G_2412MHz

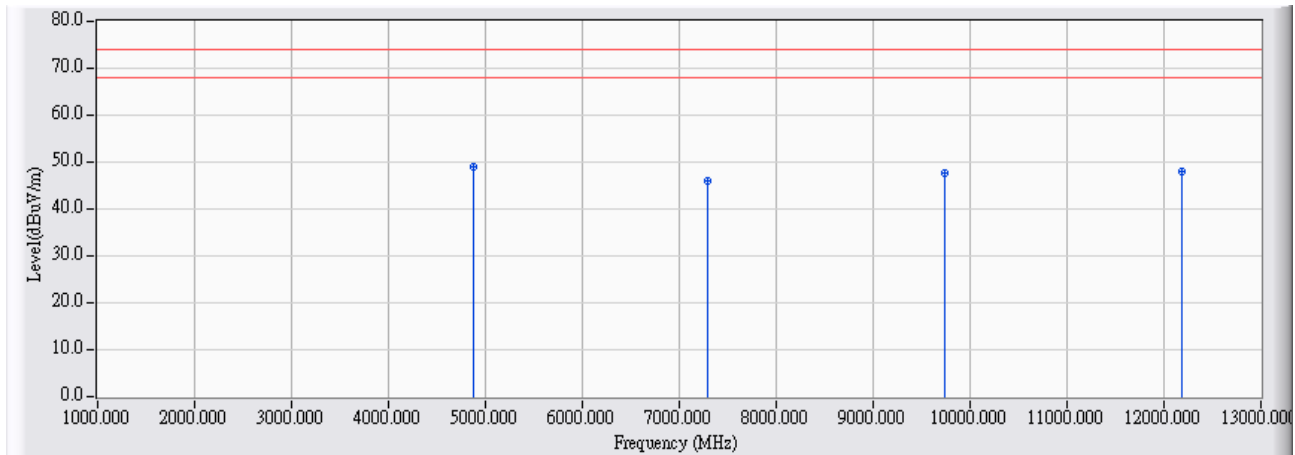


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4822.920	1.648	44.540	46.188	-27.812	74.000	PEAK
2	7239.500	8.177	38.390	46.566	-27.434	74.000	PEAK
3	9647.170	9.944	37.080	47.024	-26.976	74.000	PEAK
4	* 12046.580	9.808	37.440	47.248	-26.752	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 : 2012/08/06 - 16:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11G_2437MHz

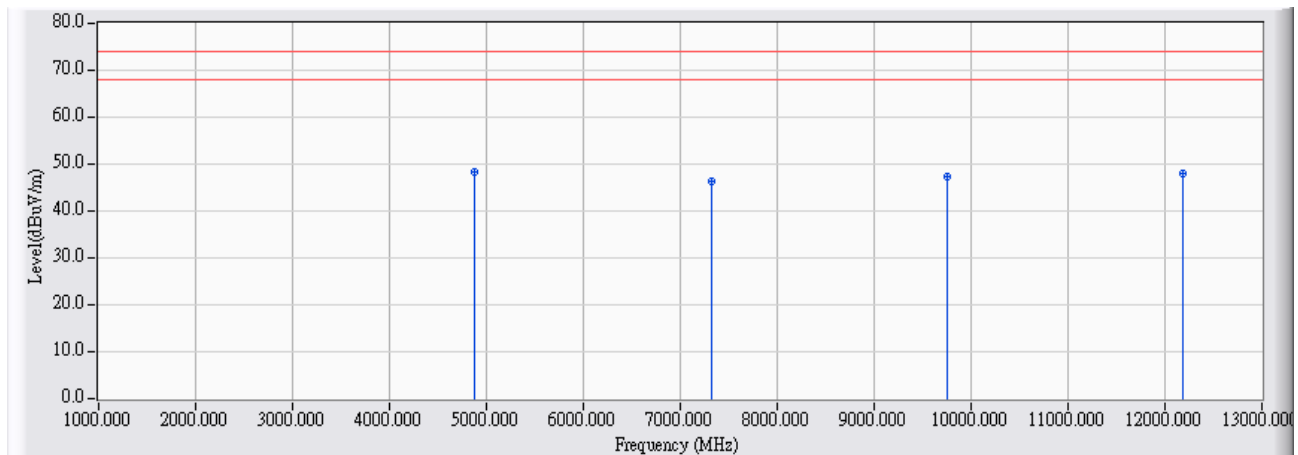


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4873.000	1.950	47.130	49.080	-24.920	74.000	PEAK
2		7295.170	8.326	37.830	46.156	-27.844	74.000	PEAK
3		9732.330	10.129	37.390	47.519	-26.481	74.000	PEAK
4		12181.670	10.905	37.020	47.924	-26.076	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 : 2012/08/06 - 16:53
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11G_2437MHz

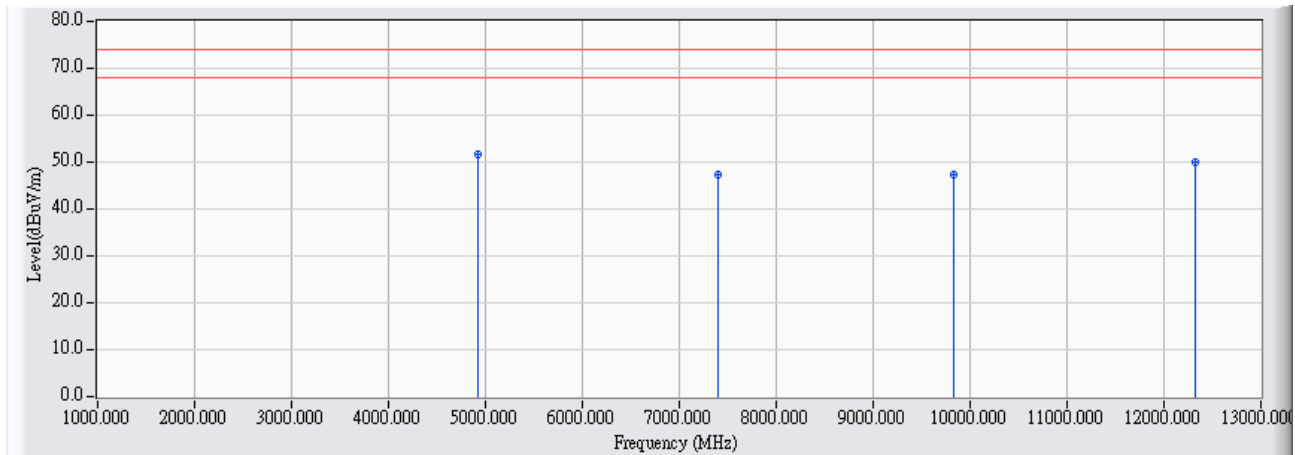


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4874.420	1.958	46.370	48.328	-25.672	74.000	PEAK
2		7319.830	8.392	38.070	46.462	-27.538	74.000	PEAK
3		9750.080	10.168	37.170	47.338	-26.662	74.000	PEAK
4		12183.000	10.914	37.230	48.145	-25.855	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 : 2012/08/06 - 16:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11G_2462MHz

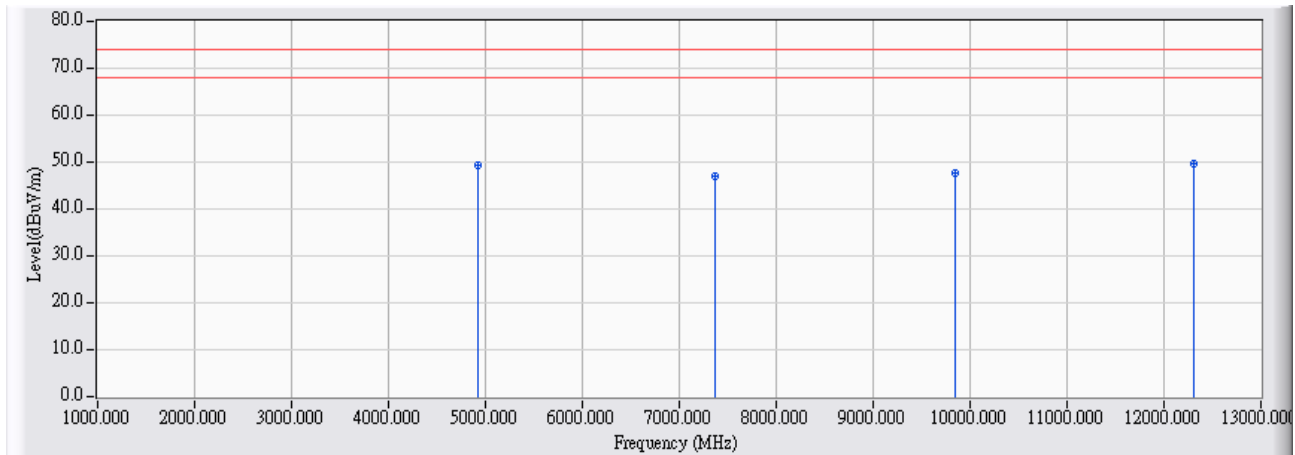


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	4918.750	2.184	49.390	51.574	-22.426	74.000	PEAK
2		7392.920	8.668	38.690	47.358	-26.642	74.000	PEAK
3		9833.420	10.351	37.060	47.411	-26.589	74.000	PEAK
4		12323.500	11.989	37.940	49.928	-24.072	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 : 2012/08/06 - 17:02
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11G_2462MHz

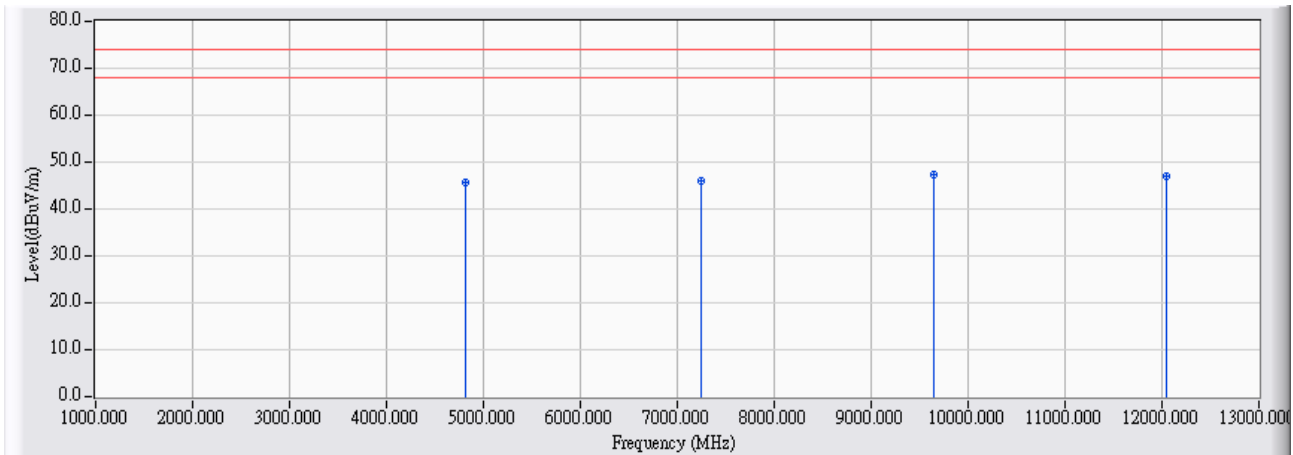


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4923.670	2.207	47.070	49.278	-24.722	74.000	PEAK
2	7372.000	8.571	38.570	47.140	-26.860	74.000	PEAK
3	9845.920	10.382	37.370	47.752	-26.248	74.000	PEAK
4	* 12311.330	11.917	37.610	49.527	-24.473	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 : 2012/08/06 - 17:31
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(20M)_2412MHz

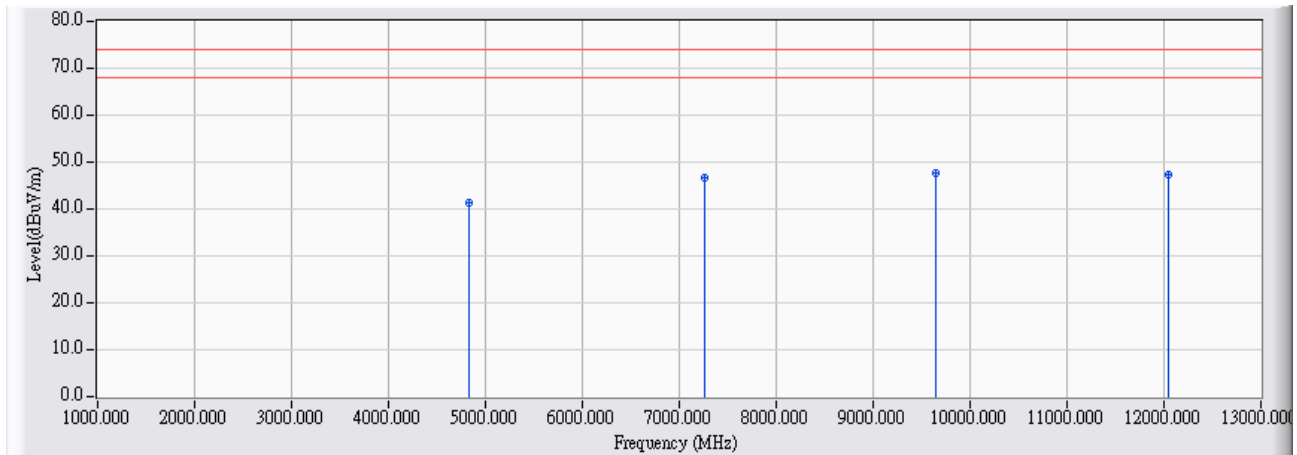


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4822.670	1.647	43.900	45.547	-28.453	74.000	PEAK
2	7243.330	8.187	37.890	46.077	-27.923	74.000	PEAK
3	* 9645.670	9.941	37.370	47.311	-26.689	74.000	PEAK
4	12045.920	9.803	37.240	47.043	-26.957	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 : 2012/08/06 - 17:35
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(20M)_2412MHz

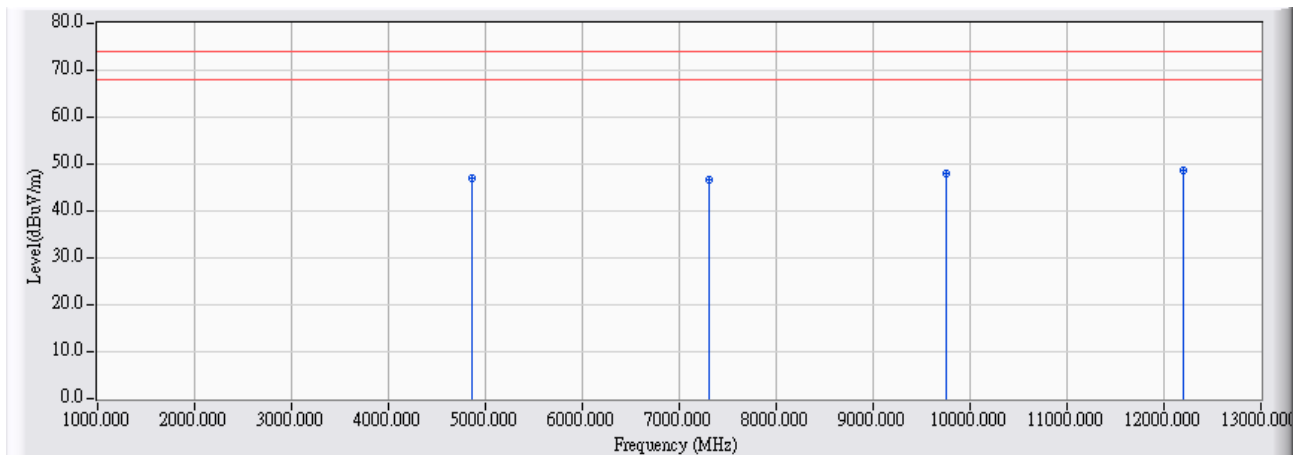


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4832.250	1.704	39.640	41.344	-32.656	74.000	PEAK
2	7257.500	8.225	38.580	46.805	-27.195	74.000	PEAK
3	* 9651.500	9.954	37.830	47.784	-26.216	74.000	PEAK
4	12052.250	9.853	37.450	47.304	-26.696	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 : 2012/08/06 - 17:39
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(20M)_2437MHz

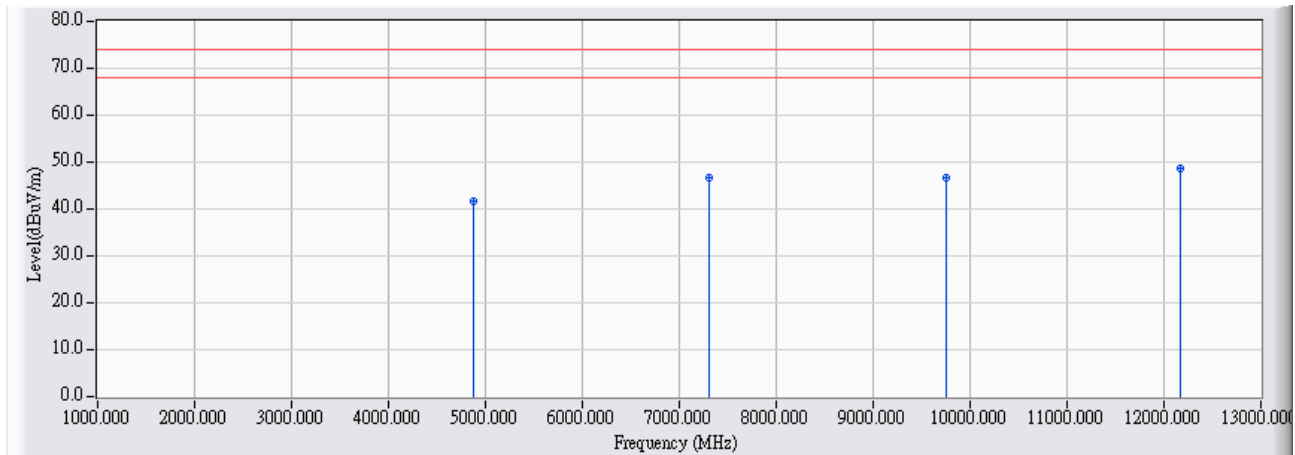


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4866.170	1.909	44.970	46.879	-27.121	74.000	PEAK
2	7306.580	8.357	38.190	46.547	-27.453	74.000	PEAK
3	9748.330	10.164	37.720	47.884	-26.116	74.000	PEAK
4	* 12193.420	10.999	37.600	48.600	-25.400	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 : 2012/08/06 - 17:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(20M)_2437MHz

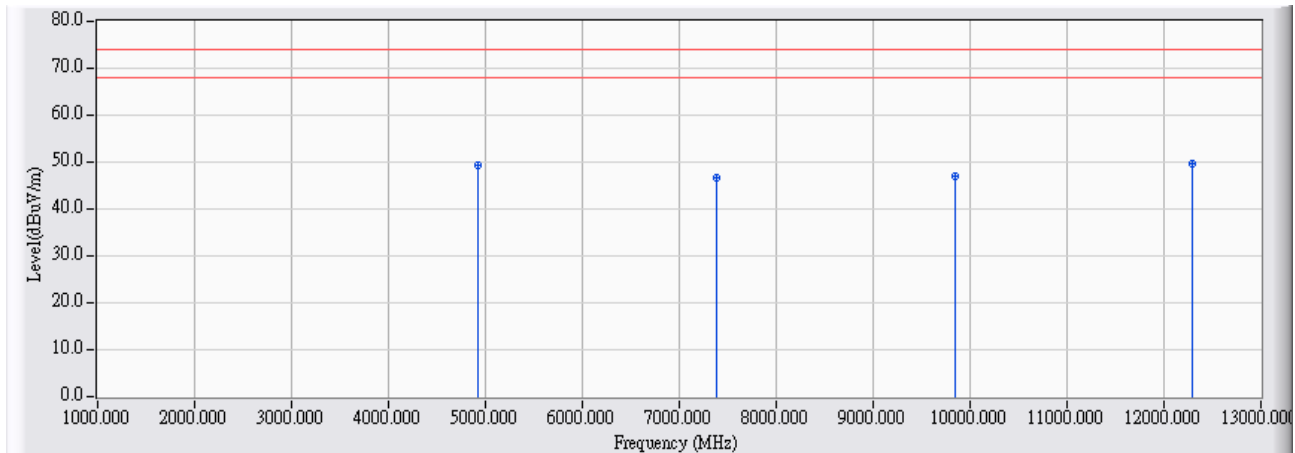


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4871.170	1.939	39.660	41.599	-32.401	74.000	PEAK
2	7307.250	8.358	38.340	46.698	-27.302	74.000	PEAK
3	9748.830	10.165	36.640	46.805	-27.195	74.000	PEAK
4	* 12171.750	10.824	37.720	48.544	-25.456	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 : 2012/08/06 - 17:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(20M)_2462MHz

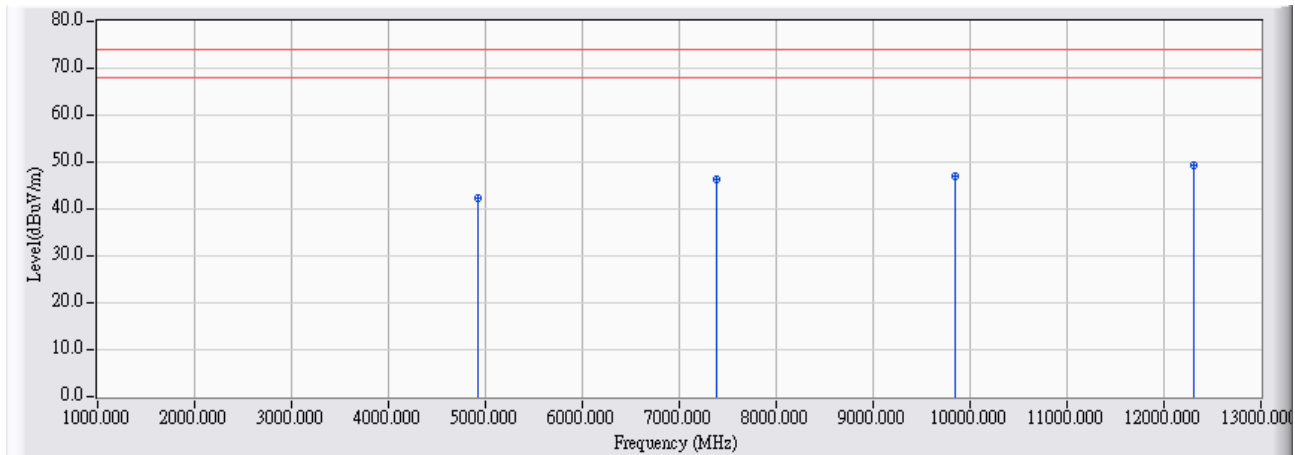


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4927.500	2.226	47.180	49.407	-24.593	74.000	PEAK
2	7383.000	8.622	37.970	46.591	-27.409	74.000	PEAK
3	9846.920	10.385	36.540	46.924	-27.076	74.000	PEAK
4	* 12292.830	11.804	37.860	49.665	-24.335	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 : 2012/08/06 - 17:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(20M)_2462MHz

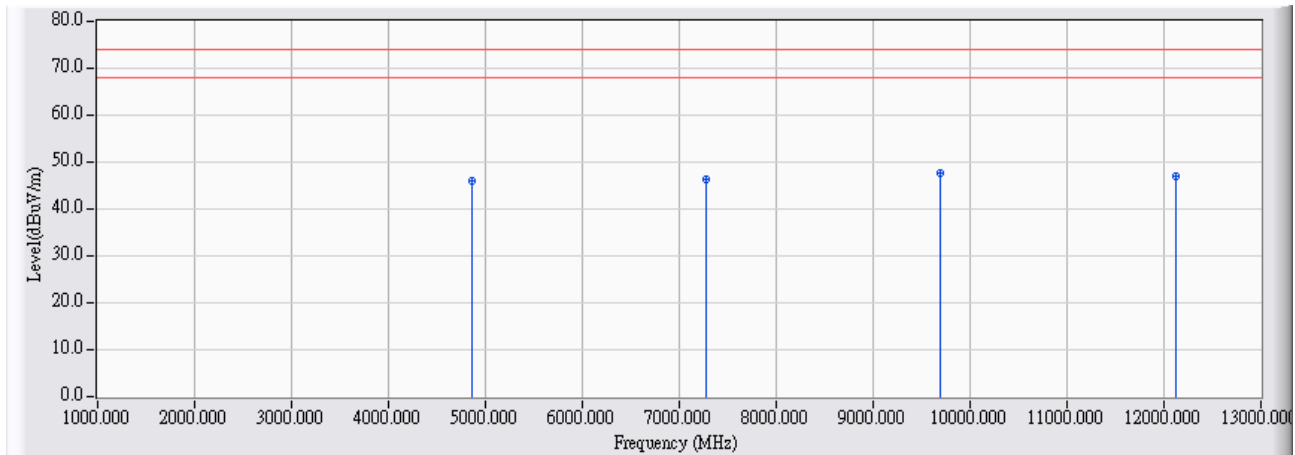


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4921.080	2.195	40.130	42.325	-31.675	74.000	PEAK
2	7377.830	8.597	37.600	46.197	-27.803	74.000	PEAK
3	9851.330	10.396	36.710	47.105	-26.895	74.000	PEAK
4	* 12306.580	11.889	37.380	49.269	-24.731	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 : 2012/08/06 - 17:54
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(40M)_2422MHz

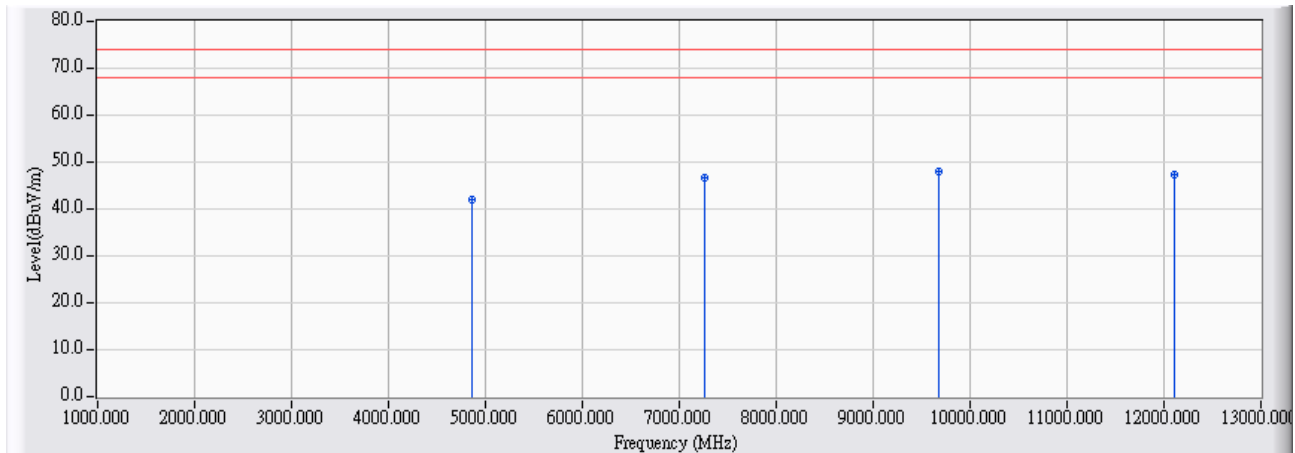


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4863.580	1.894	44.260	46.153	-27.847	74.000	PEAK
2	7271.920	8.264	38.090	46.354	-27.646	74.000	PEAK
3	* 9697.250	10.053	37.520	47.573	-26.427	74.000	PEAK
4	12126.170	10.454	36.570	47.024	-26.976	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 : 2012/08/06 - 17:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(40M)_2422MHz

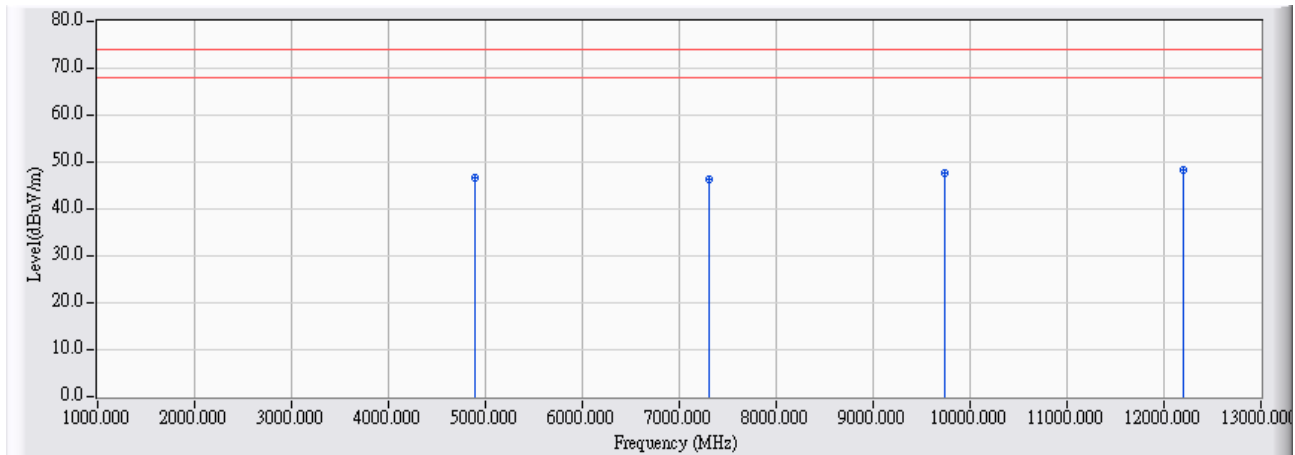


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4855.250	1.842	40.070	41.913	-32.087	74.000	PEAK
2	7257.000	8.224	38.350	46.573	-27.427	74.000	PEAK
3	* 9683.670	10.024	38.120	48.143	-25.857	74.000	PEAK
4	12100.580	10.247	37.050	47.296	-26.704	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 : 2012/08/06 - 18:34
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(40M)_2437MHz

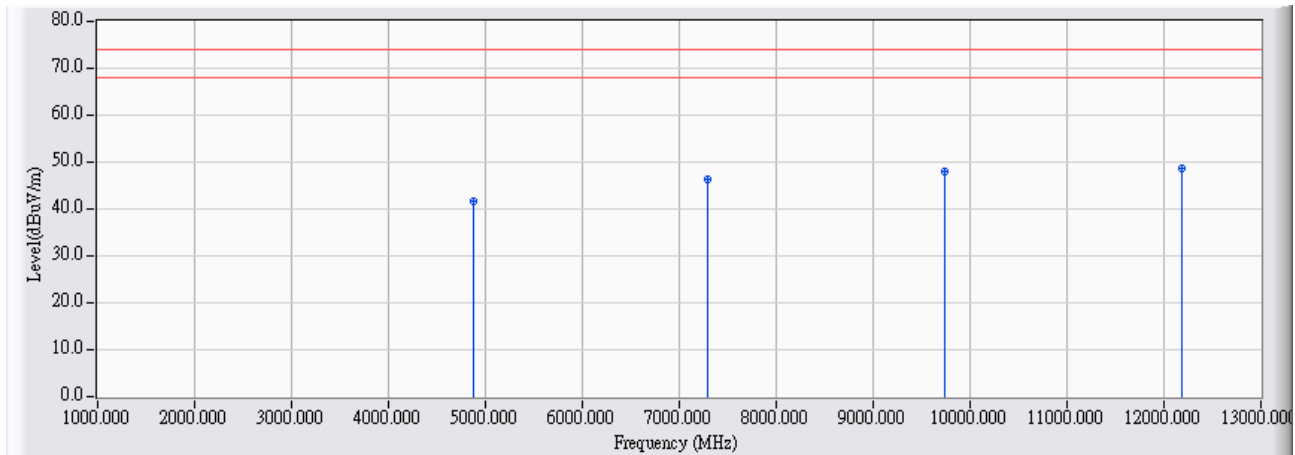


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4893.670	2.062	44.440	46.501	-27.499	74.000	PEAK
2	7305.580	8.354	37.890	46.244	-27.756	74.000	PEAK
3	9736.500	10.139	37.420	47.558	-26.442	74.000	PEAK
4	* 12192.580	10.993	37.220	48.213	-25.787	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 : 2012/08/06 - 18:37
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(40M)_2437MHz

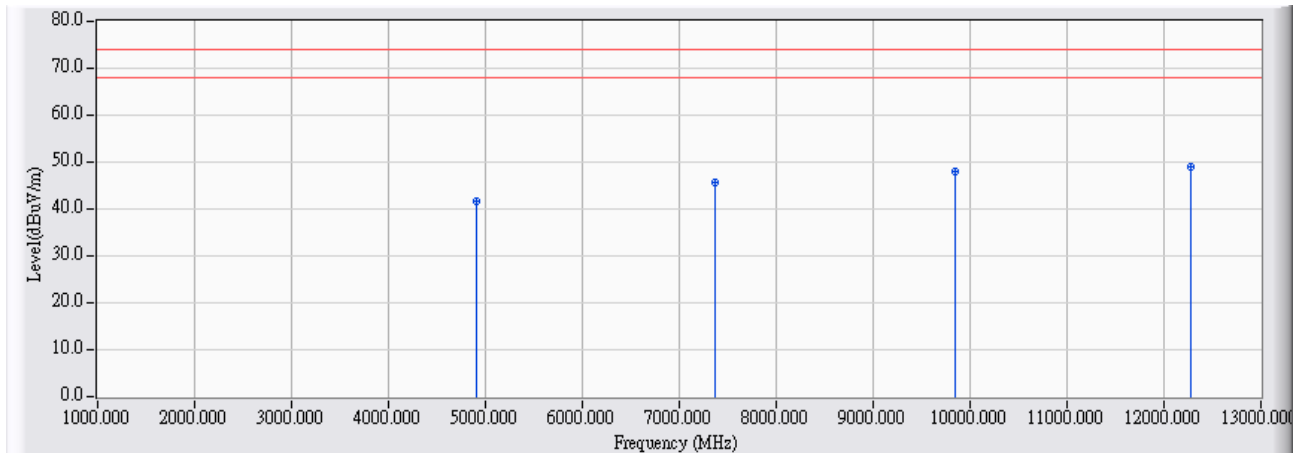


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4877.830	1.978	39.560	41.538	-32.462	74.000	PEAK
2	7289.580	8.311	38.010	46.321	-27.679	74.000	PEAK
3	9738.330	10.142	37.800	47.942	-26.058	74.000	PEAK
4	* 12188.670	10.961	37.620	48.581	-25.419	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 : 2012/08/06 - 18:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(40M)_2452MHz

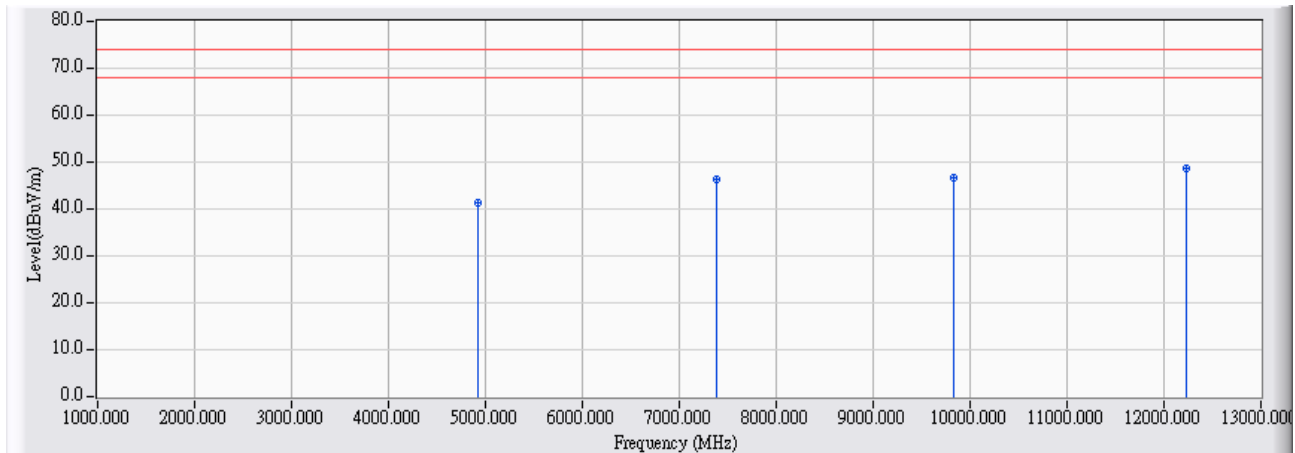


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4915.300	2.167	39.430	41.597	-32.403	74.000	PEAK
2	7368.700	8.554	36.980	45.535	-28.465	74.000	PEAK
3	9844.000	10.377	37.510	47.887	-26.113	74.000	PEAK
4	* 12271.700	11.635	37.200	48.835	-25.165	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 : 2012/08/06 - 18:46
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : AC 120V/60Hz
EUT : PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender	Note : Mode 1: Transmit _802.11n(40M)_2452MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	4918.700	2.184	39.290	41.474	-32.526	74.000	PEAK
2	7380.700	8.611	37.800	46.411	-27.589	74.000	PEAK
3	9825.300	10.332	36.330	46.662	-27.338	74.000	PEAK
4	* 12235.700	11.343	37.170	48.513	-25.487	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.

5. RF antenna conducted test

5.1. Test Equipment

The following test equipments are used during the test:

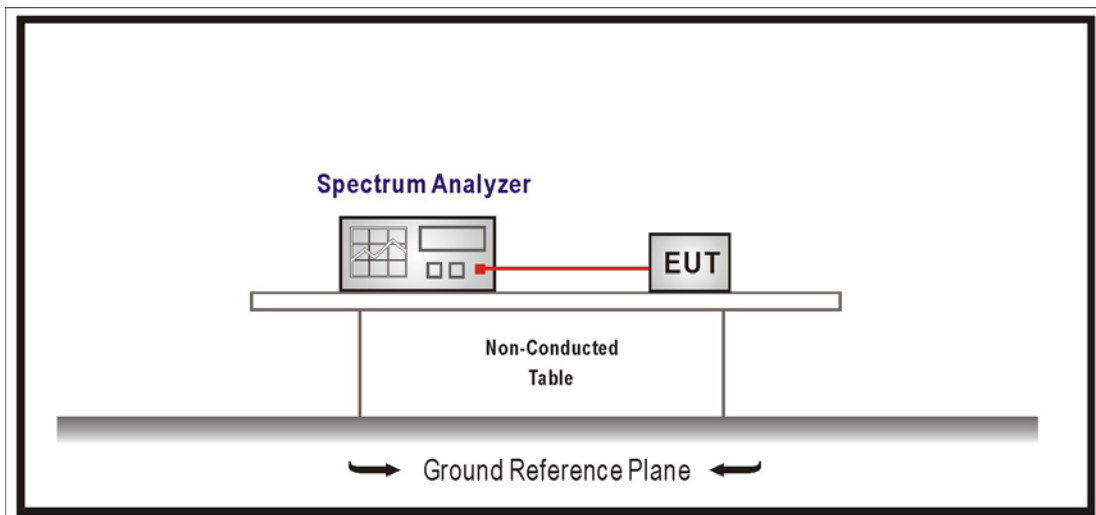
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2013/02/19

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 C63.4: 2009 and tested according to DTS test procedure of Jan. 2012 KDB558074 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: 2011

5.6. Uncertainty

Conducted is defined as ± 1.27 dB

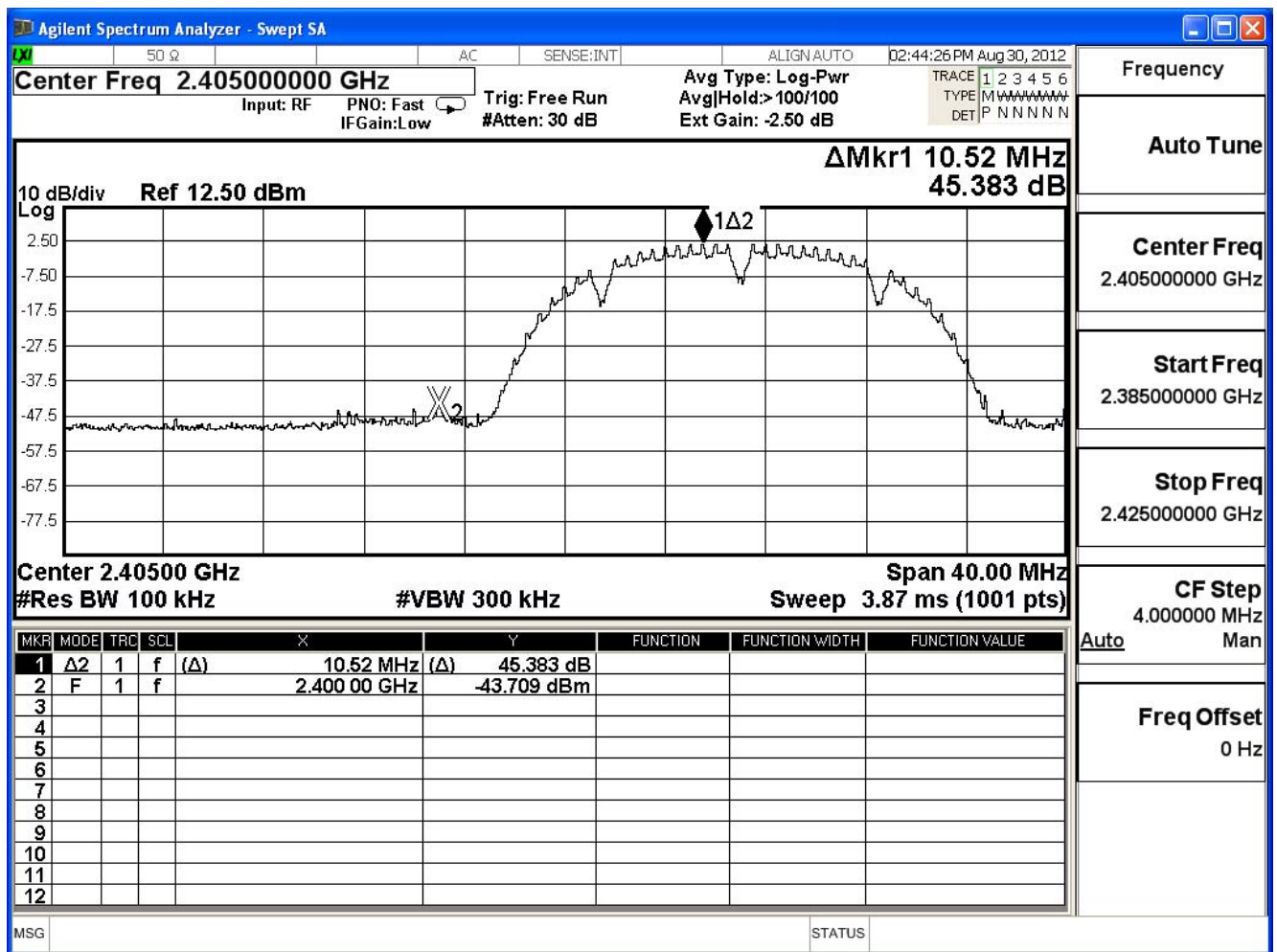
5.7. Test Result

Product	PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/08/30	Test Site	SR7

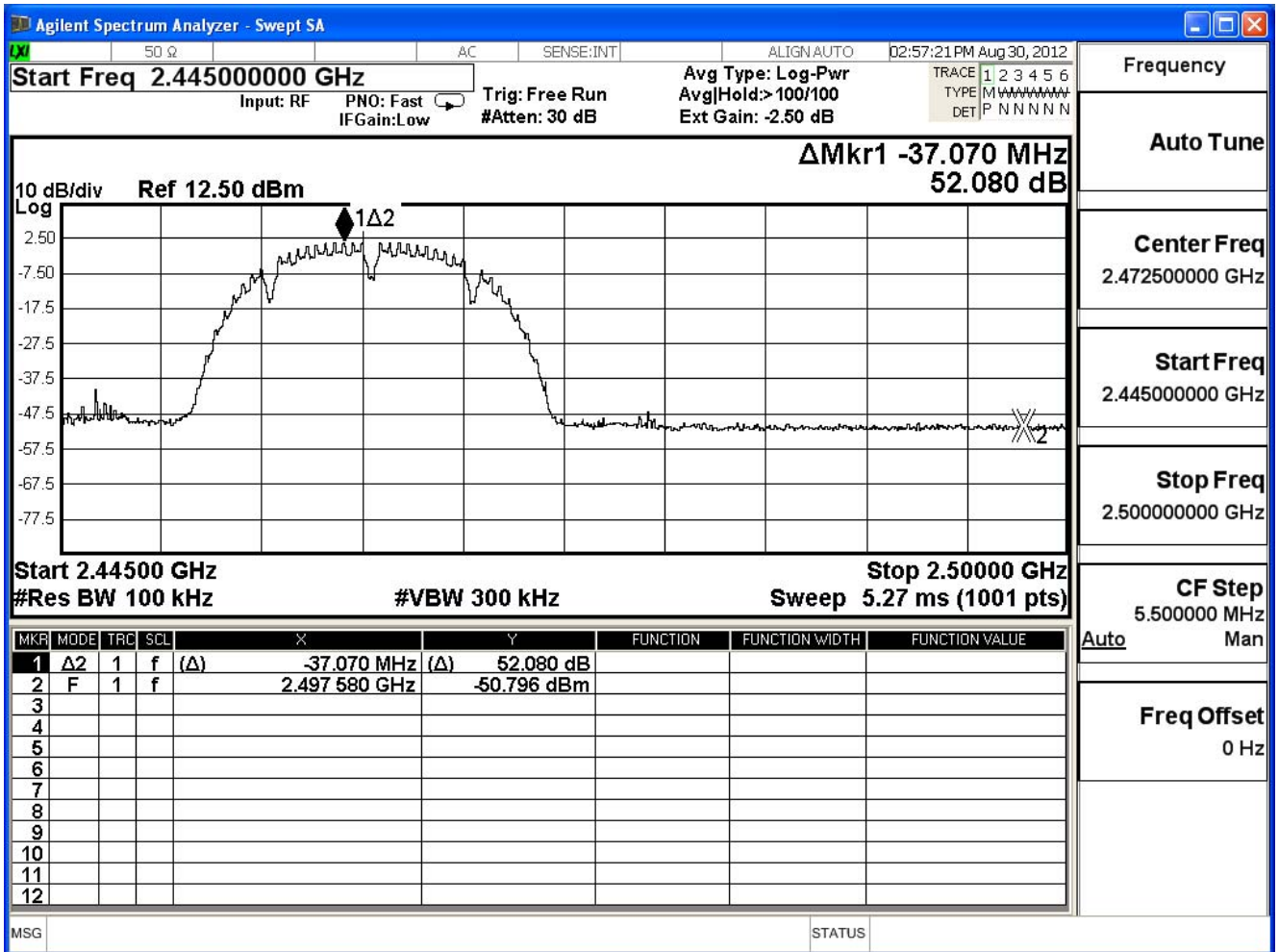
IEEE 802.11b, Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	45.383	≥20	Pass
11	2462	52.080	≥20	Pass

Channel 01 (2412MHz)



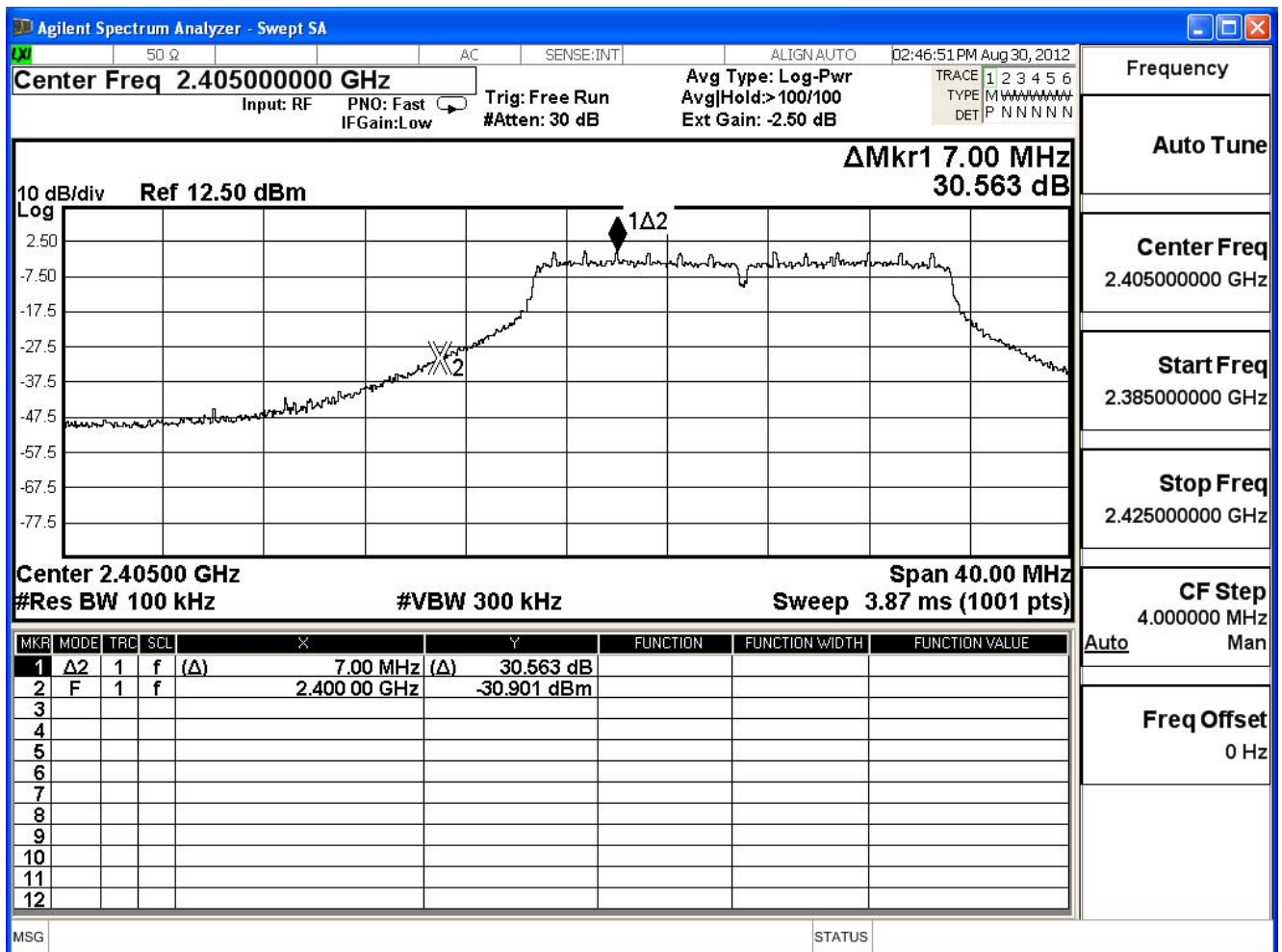
Channel 11 (2462MHz)



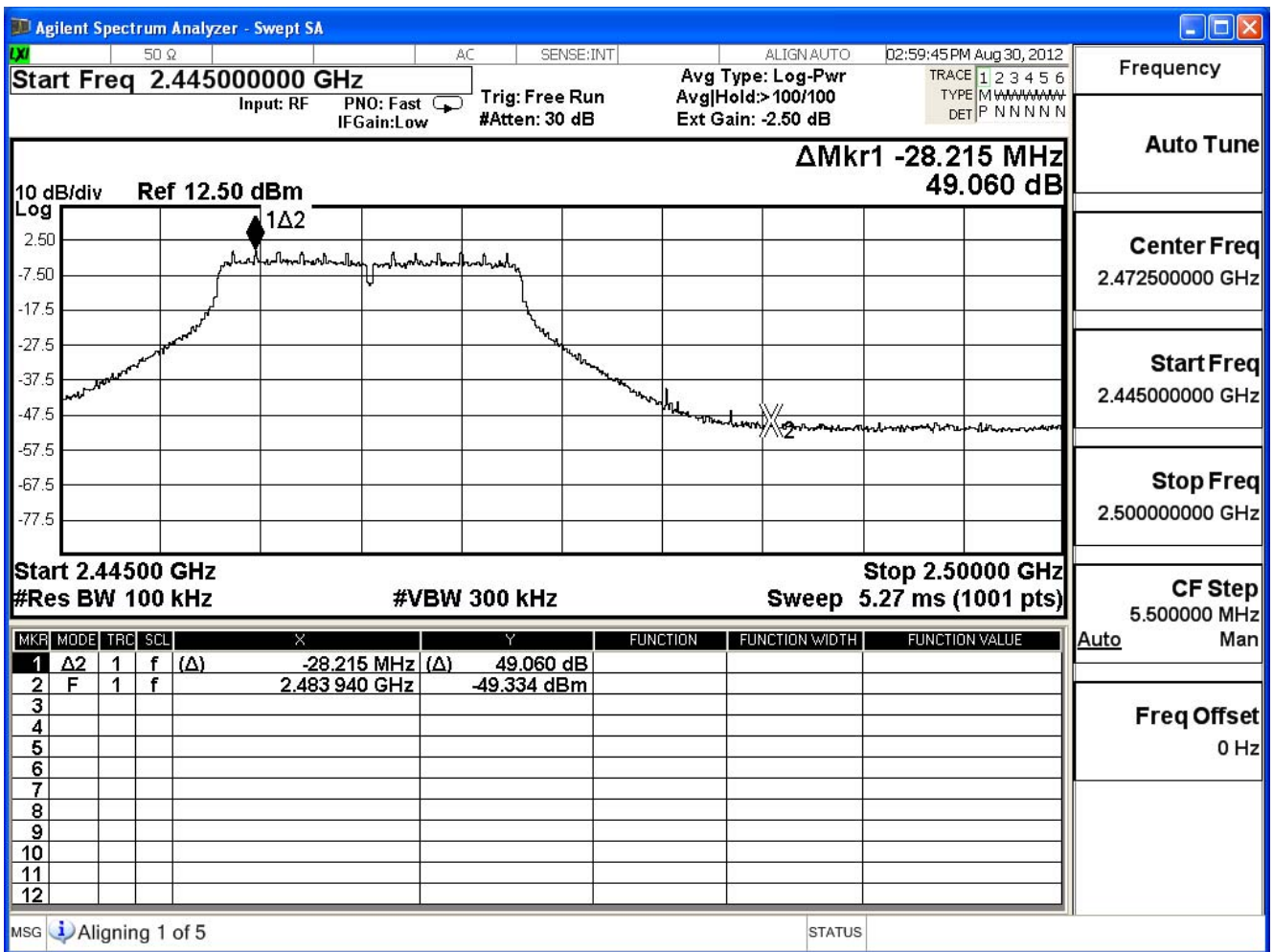
Product	PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/08/30	Test Site	SR7

IEEE 802.11g, Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.563	≥20	Pass
11	2462	49.060	≥20	Pass

Channel 01 (2412MHz)



Channel 11 (2462MHz)

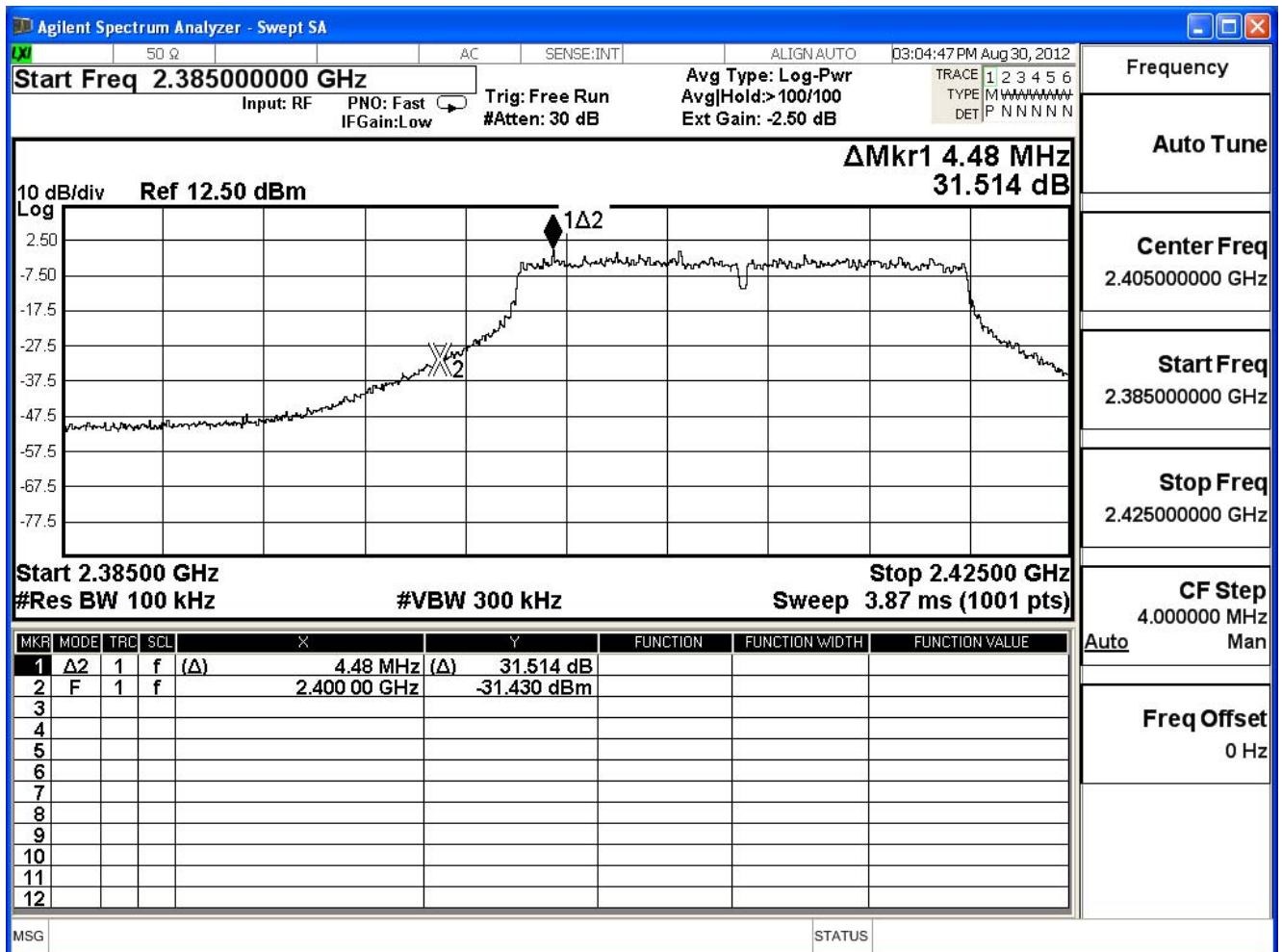


Product	PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/08/30	Test Site	SR7

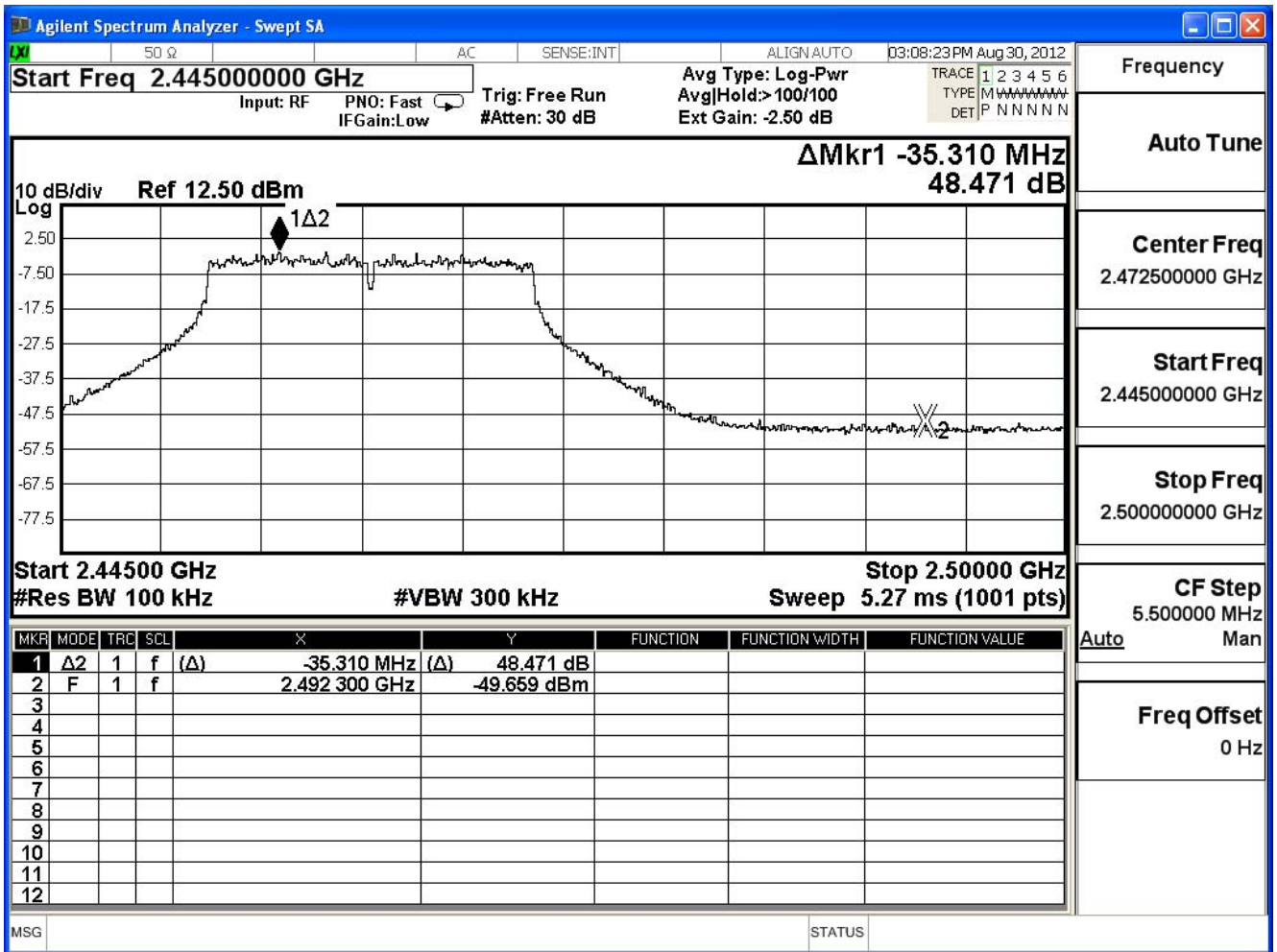
IEEE 802.11n (20MHz), (ANT 0) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	31.514	≥20	Pass
11	2462	48.471	≥20	Pass

Channel 1 (2412MHz)



Channel 11 (2462MHz)

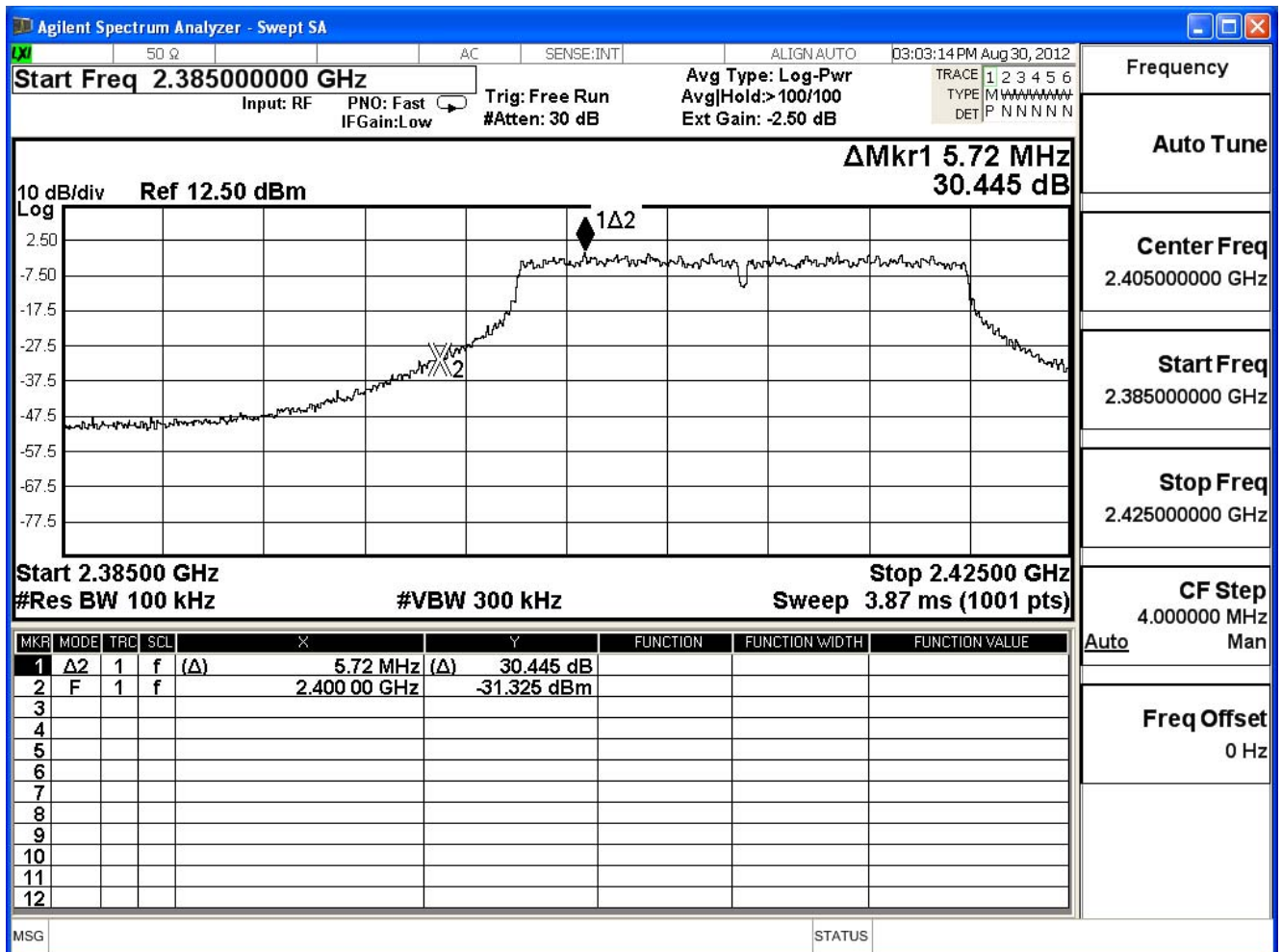


Product	PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/08/30	Test Site	SR7

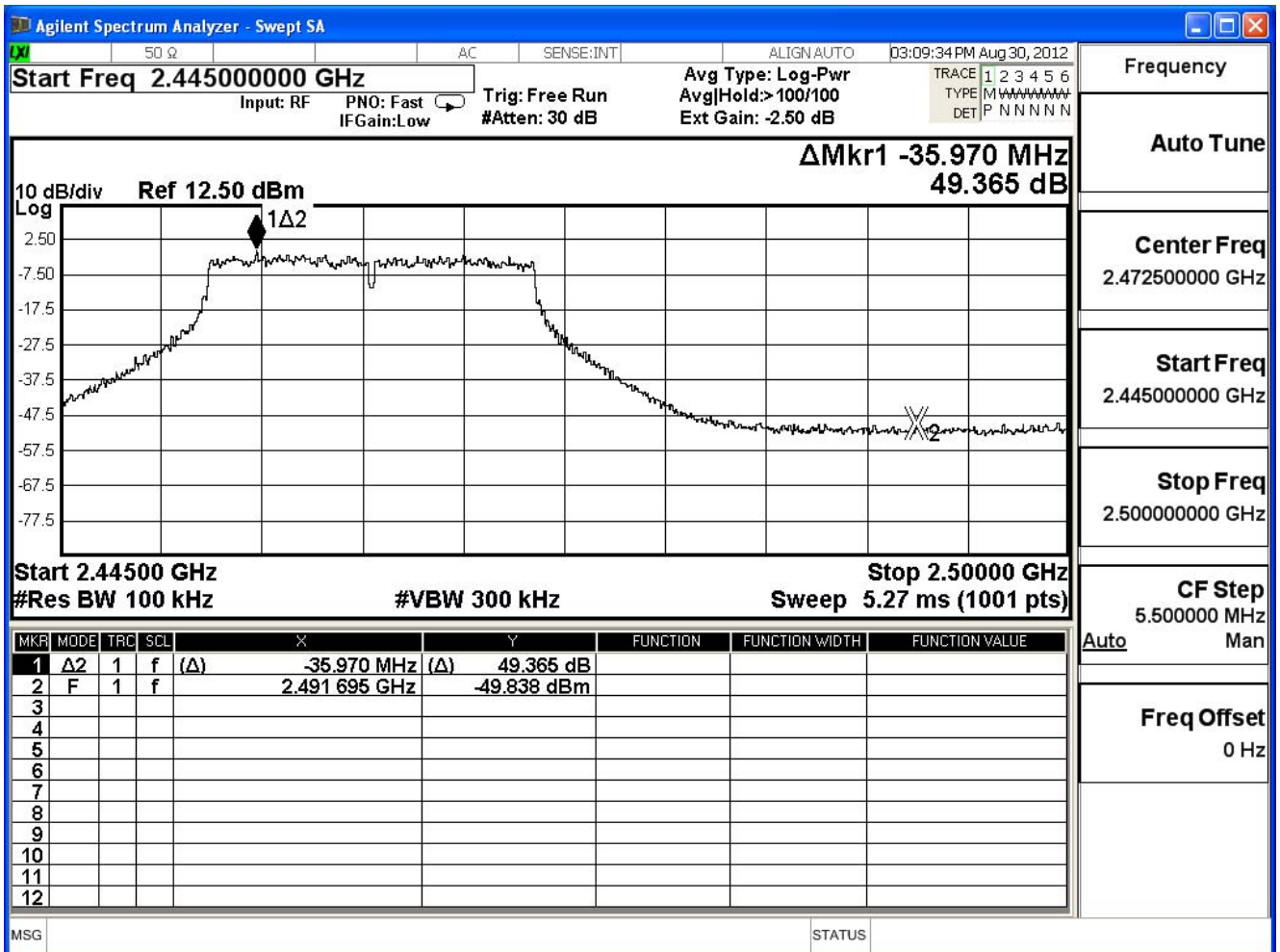
IEEE 802.11n (20MHz), (ANT 1) Duty Cycle: 1

Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	30.445	≥20	Pass
11	2462	49.365	≥20	Pass

Channel 1 (2412MHz)



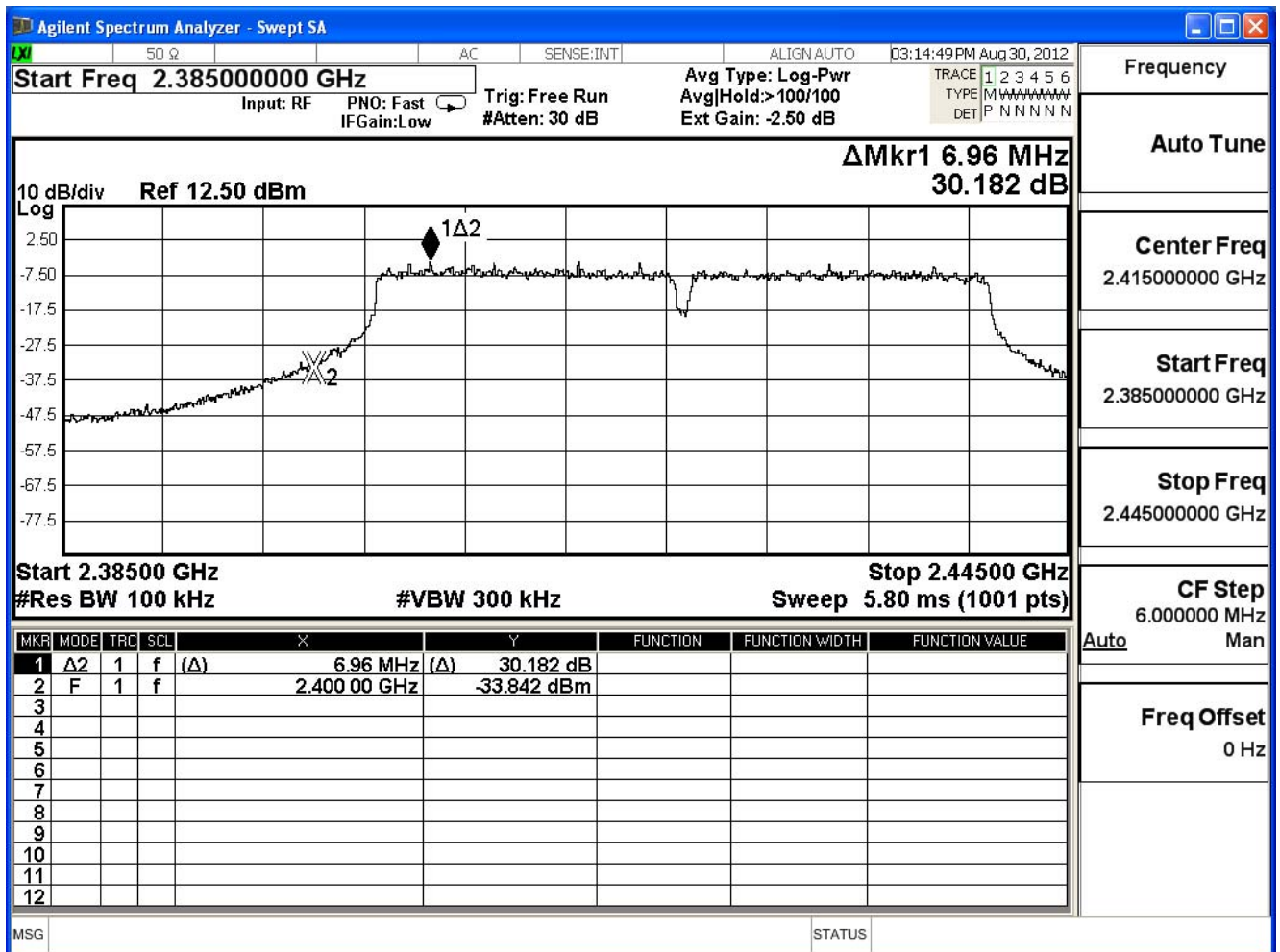
Channel 11 (2462MHz)



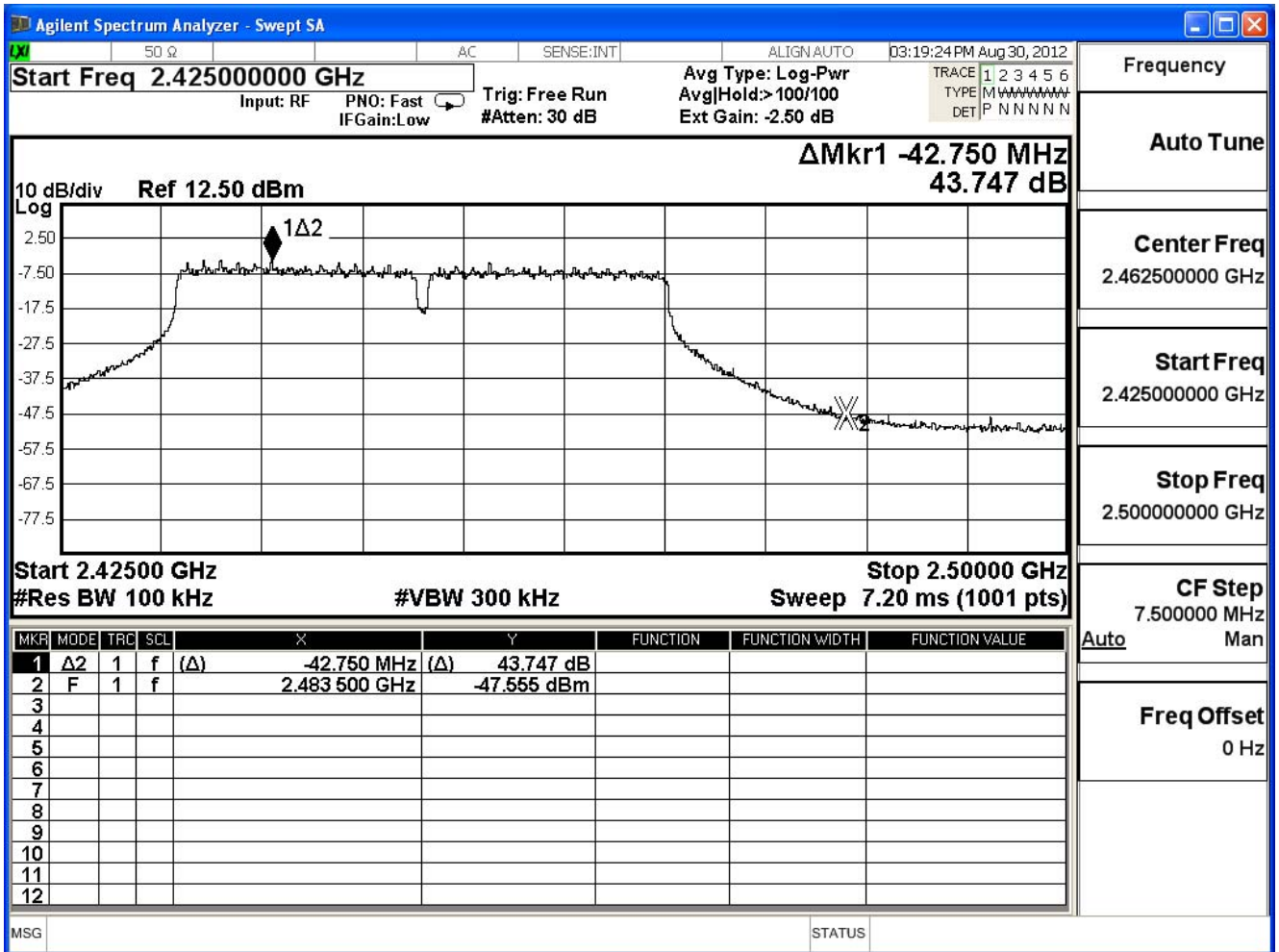
Product	PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/08/30	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 0) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	30.182	≥20	Pass
9	2452	43.747	≥20	Pass

Channel 3 (2422MHz)



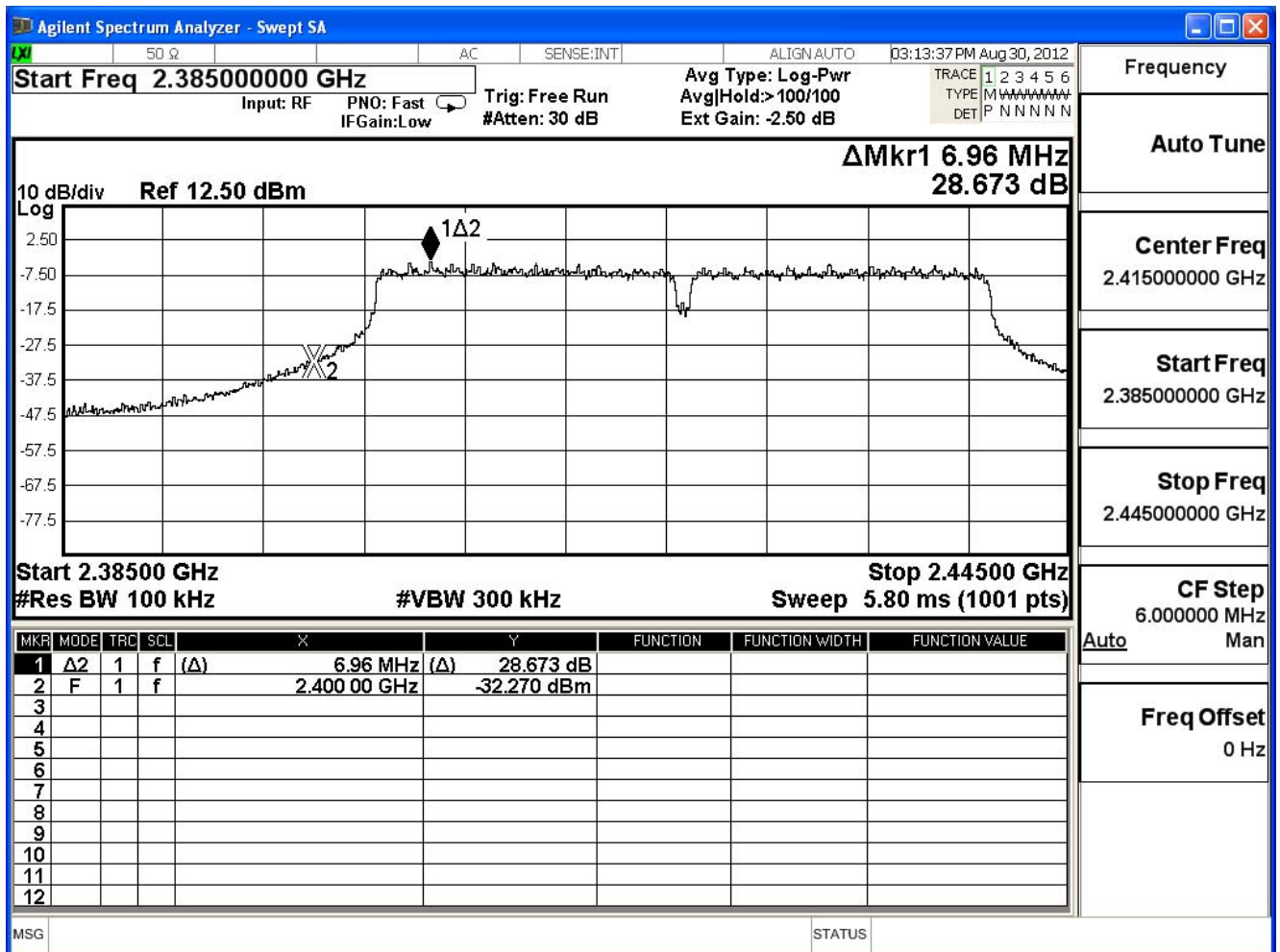
Channel 9 (2452MHz)



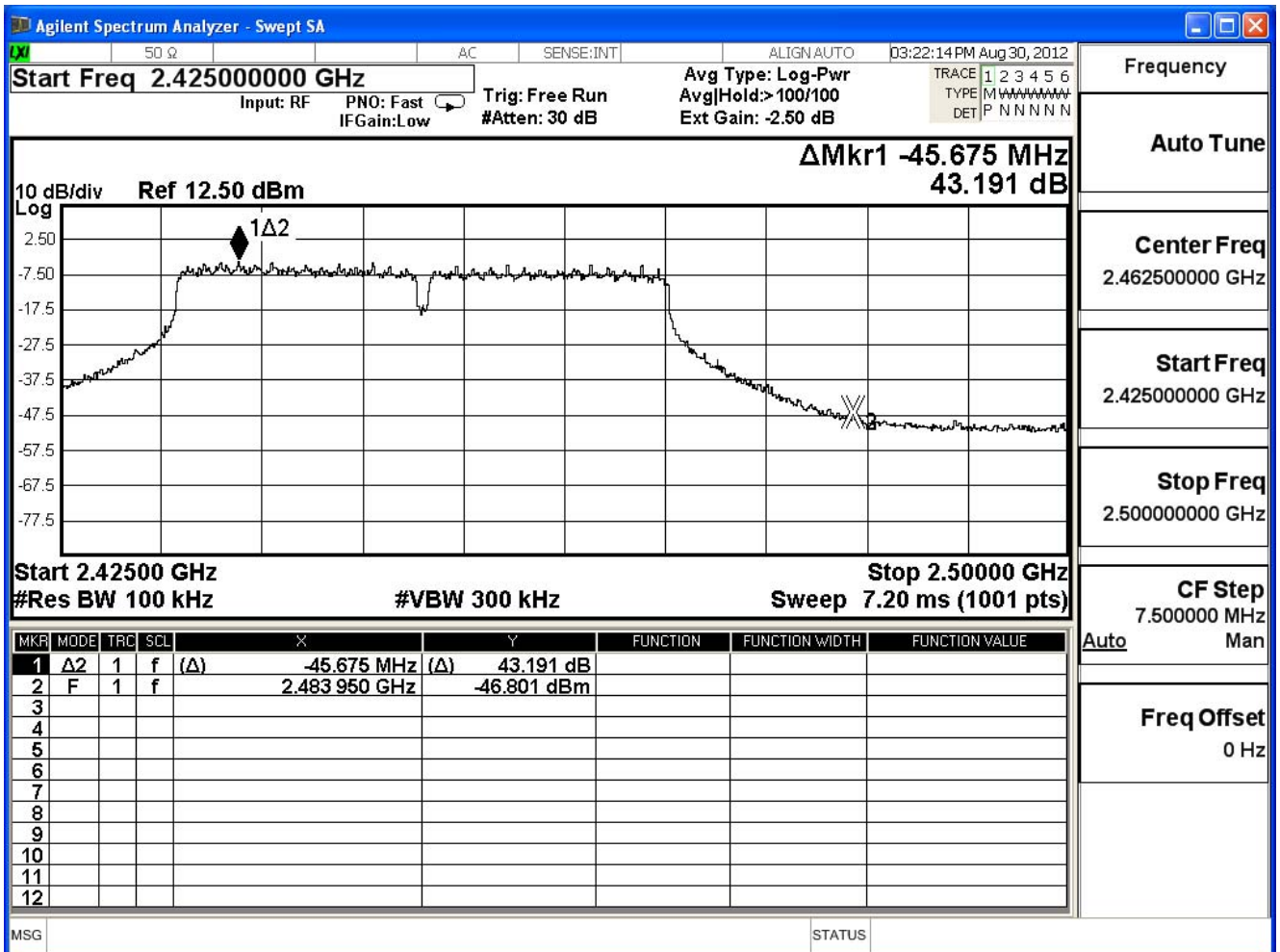
Product	PowerLine AV 500 Wireless N Mini Extender/ PowerLine AV+ Wireless N Mini Extender		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit		
Date of Test	2012/08/30	Test Site	SR7

IEEE 802.11n (40MHz), (ANT 1) Duty Cycle: 1				
Channel No.	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	28.673	≥20	Pass
9	2452	43.191	≥20	Pass

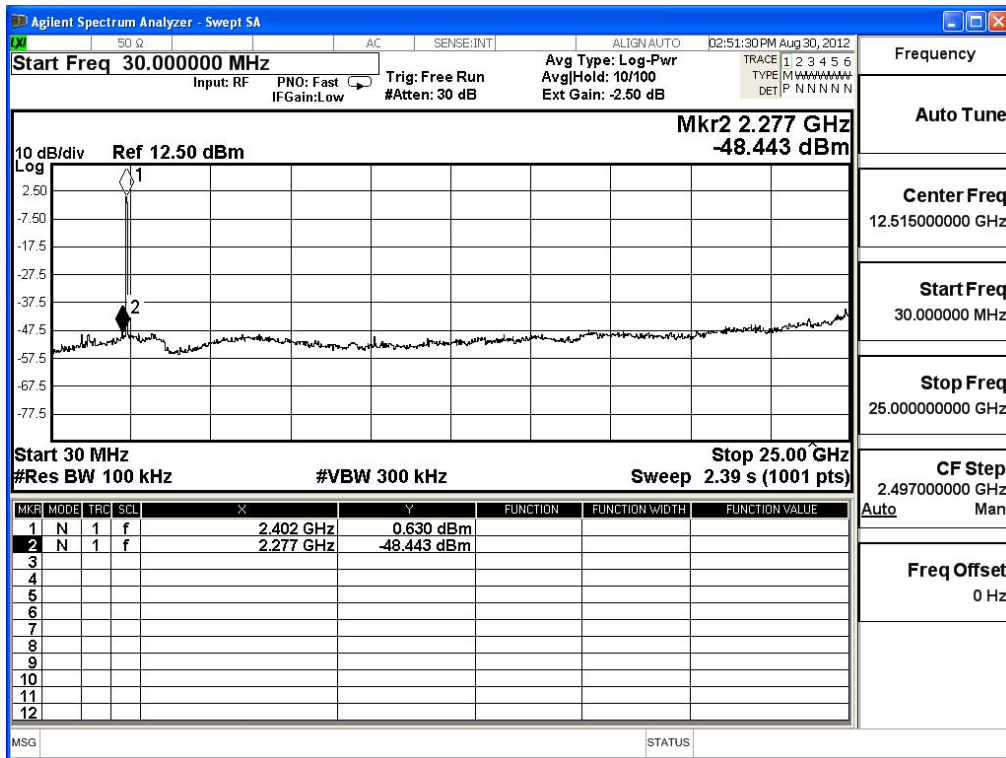
Channel 3 (2422MHz)



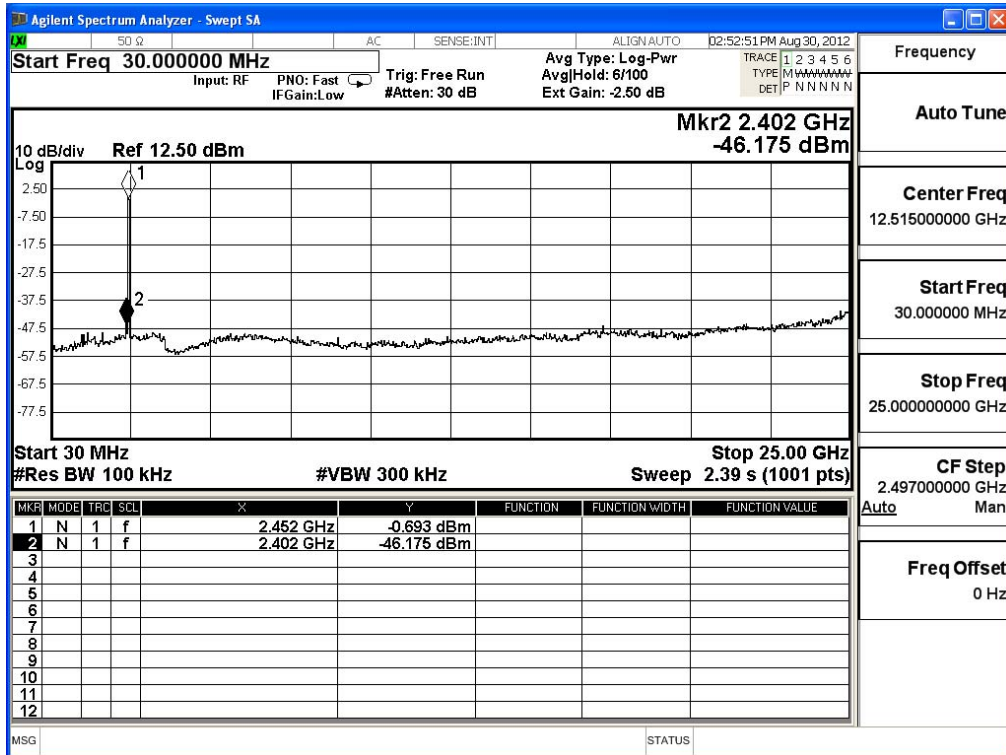
Channel 9 (2452MHz)



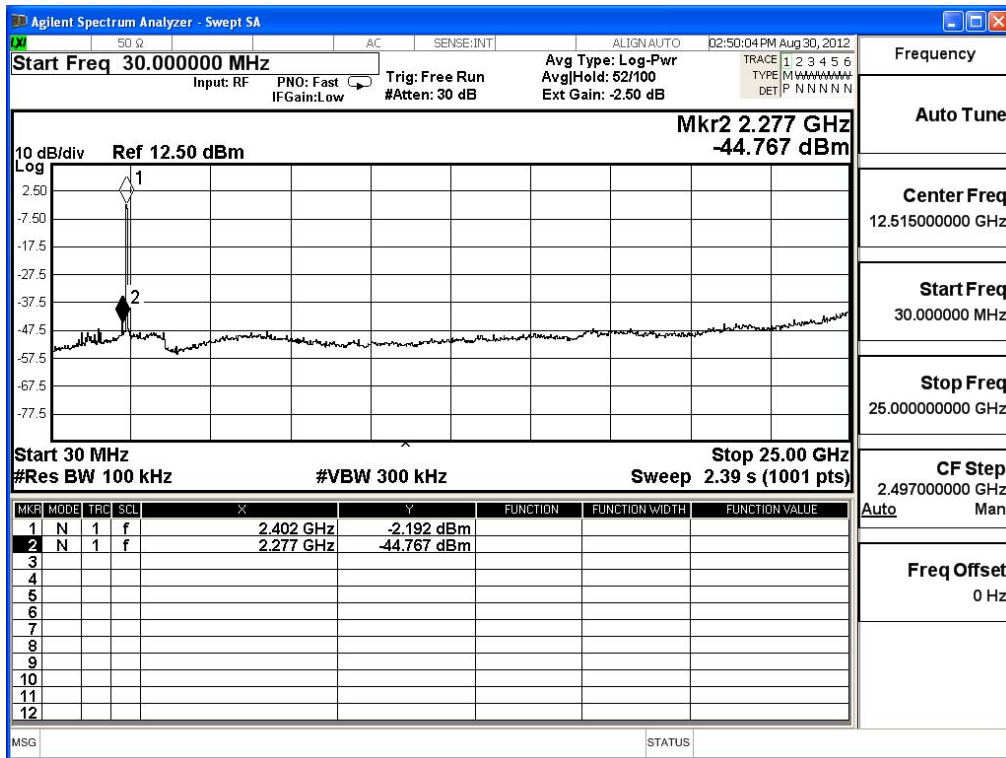
2412MHz (30MHz-25GHz)-802.11b



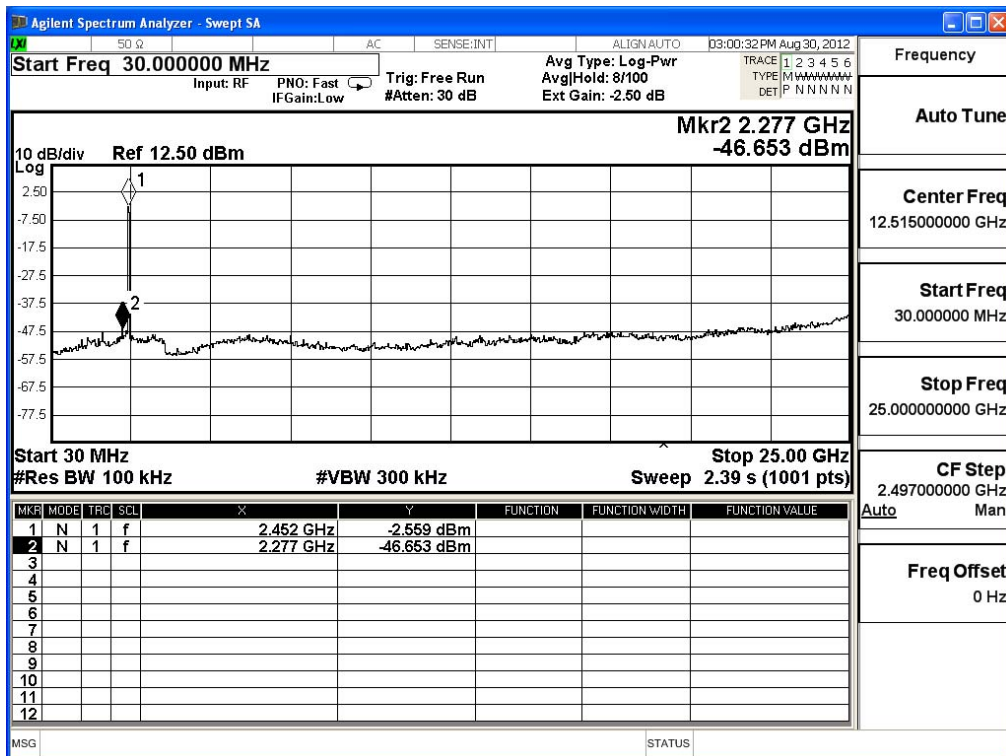
2462MHz (30MHz-25GHz) -802.11b



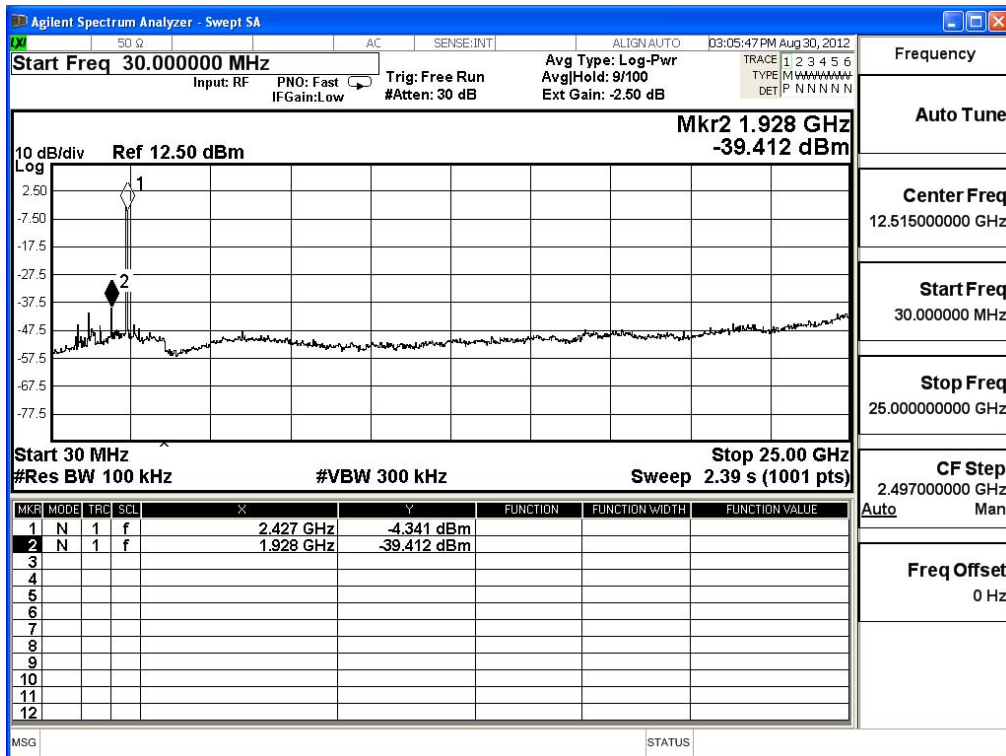
2412MHz (30MHz-25GHz)-802.11g



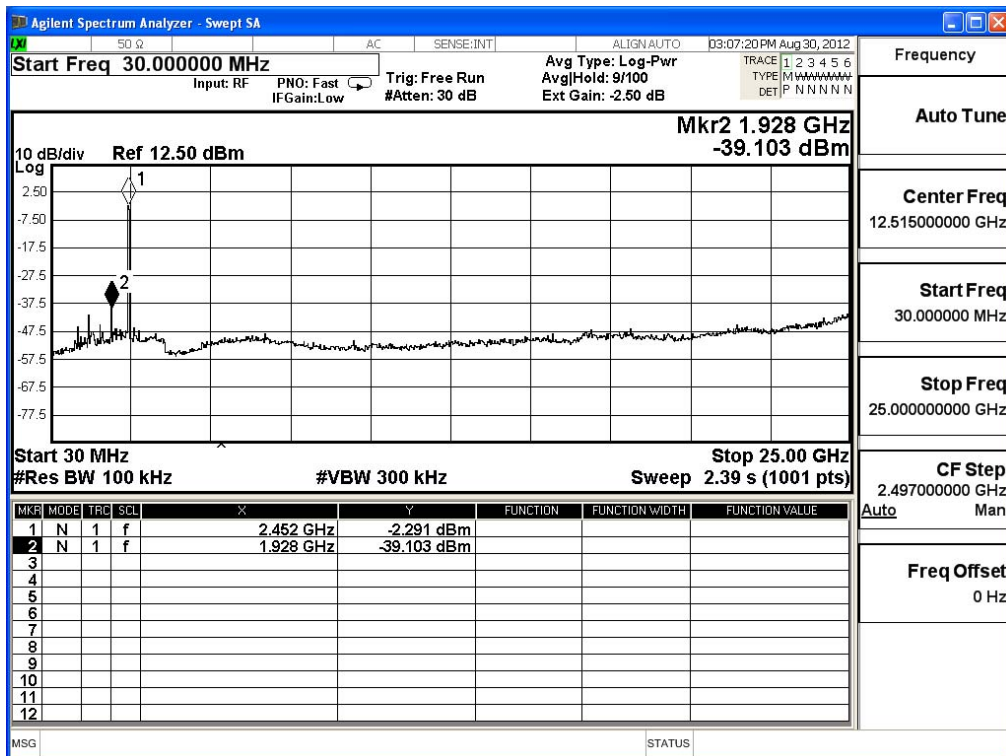
2462MHz (30MHz-25GHz) -802.11g



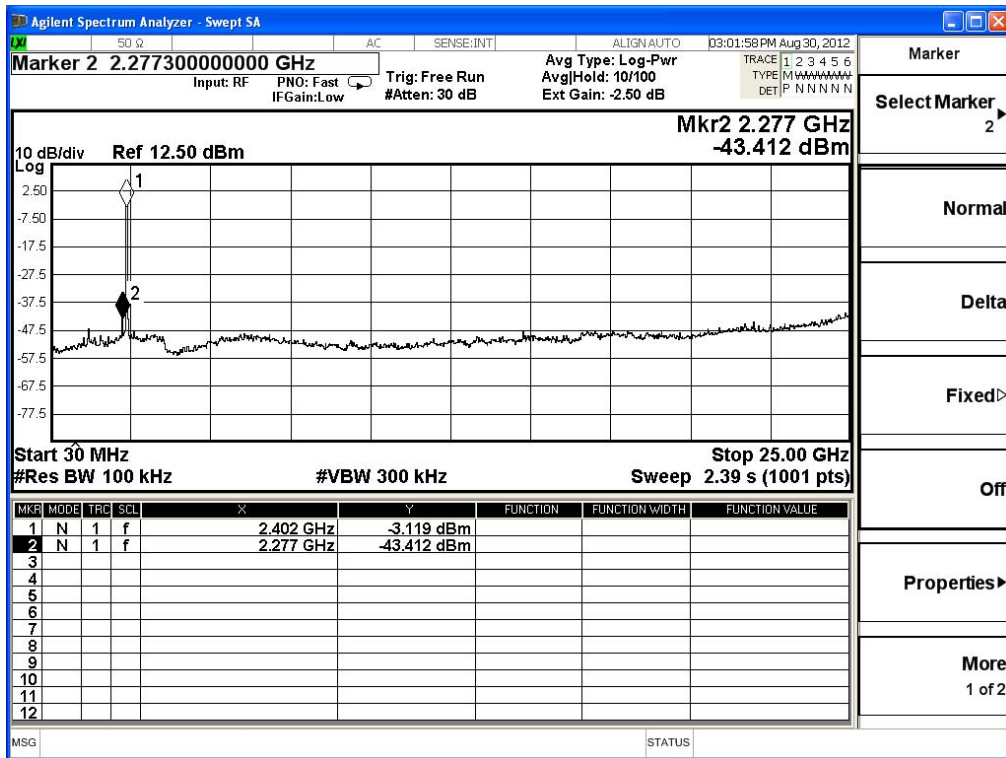
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 0



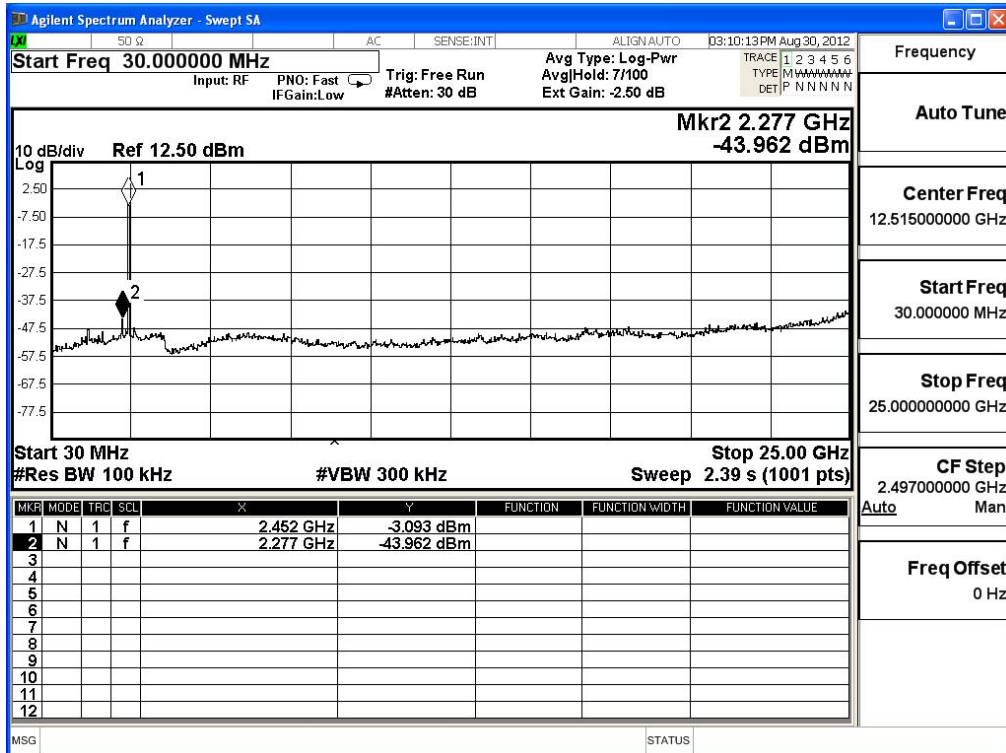
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 0



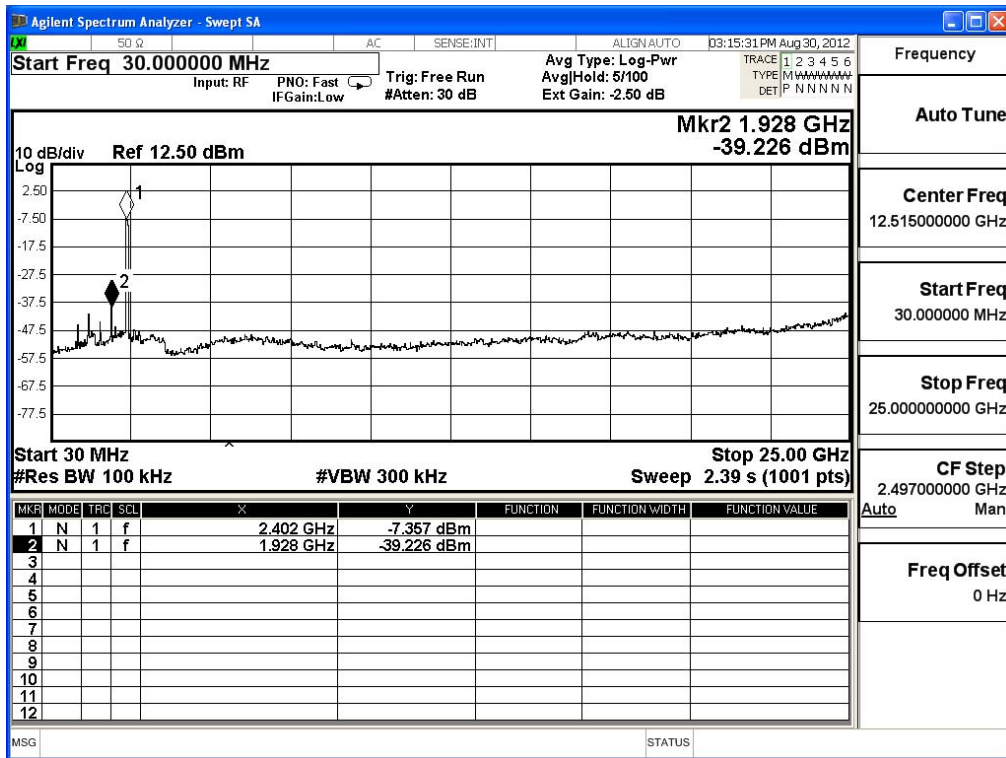
2412MHz (30MHz-25GHz)-802.11n(20MHz)-ANT 1



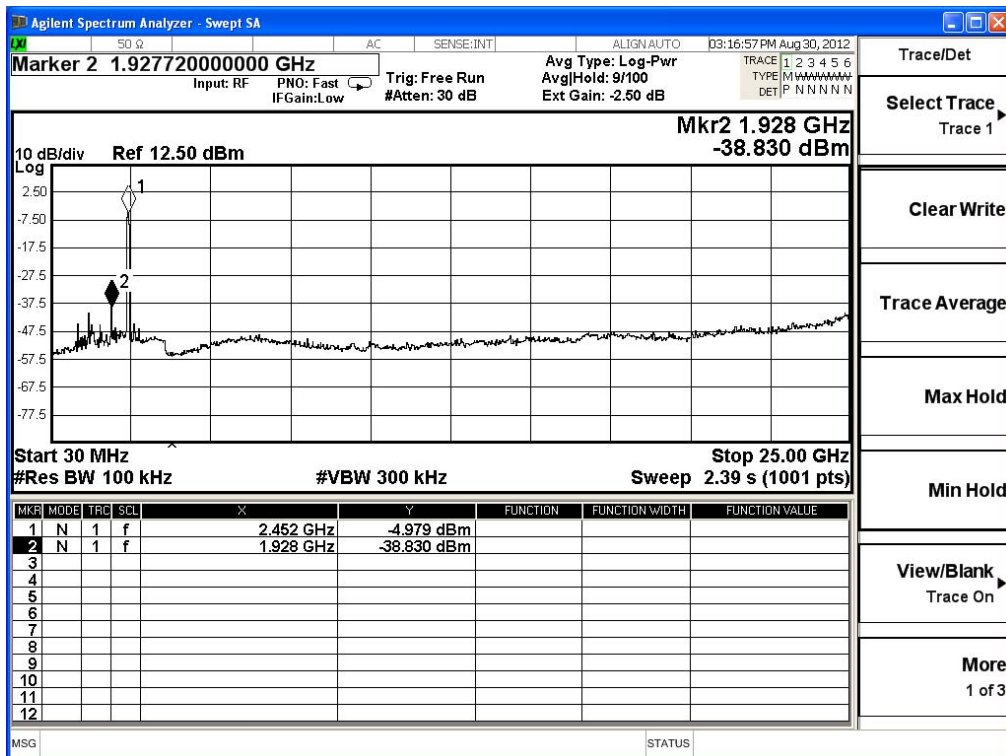
2462MHz (30MHz-25GHz) -802.11n(20MHz)-ANT 1



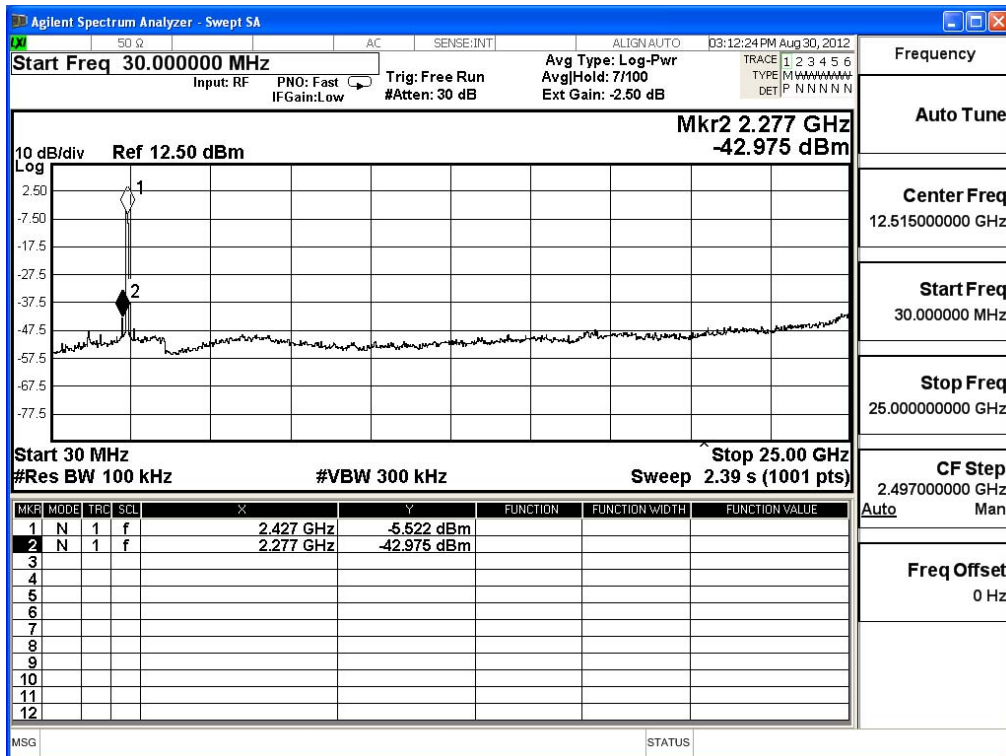
2422MHz (30MHz-25GHz)-802.11n(40MHz)-ANT 0



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



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



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

