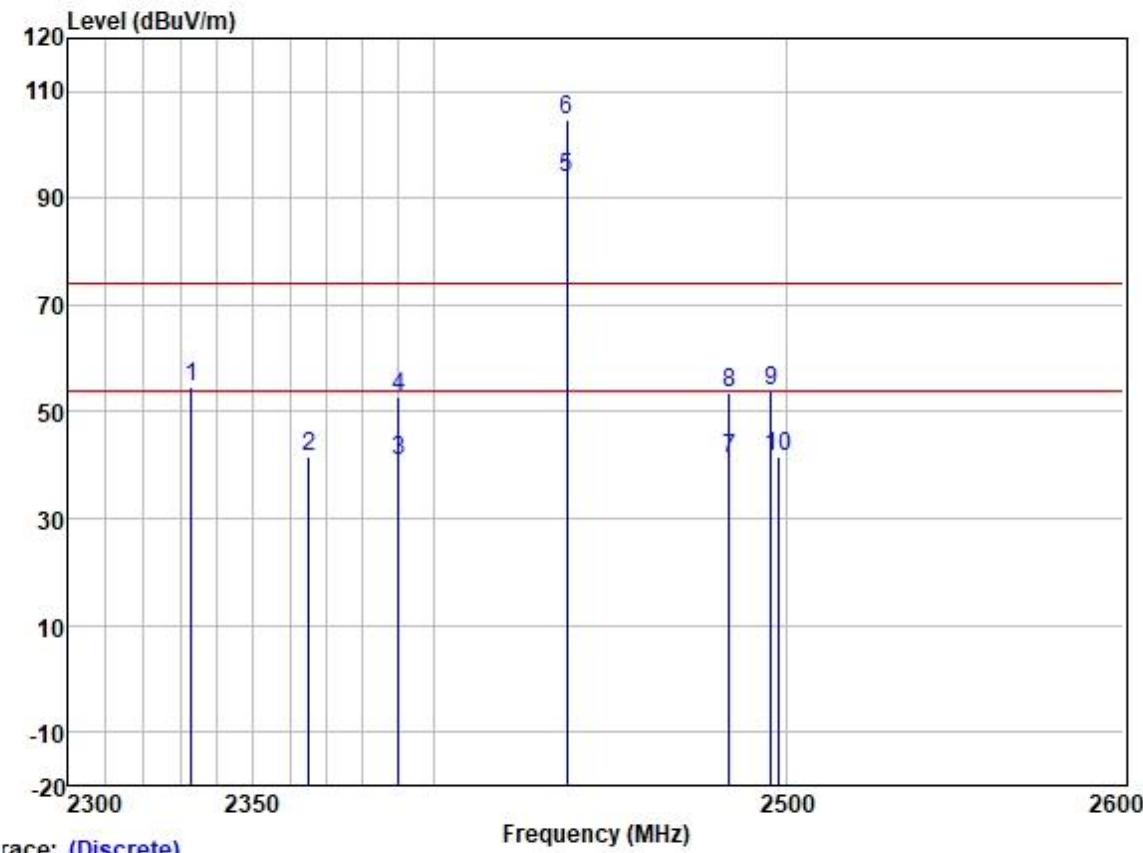


Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Loss Factor	Limit Level	Over Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	2333.121	61.60	27.20	3.36	37.62	54.54	74.00	-19.46	HORIZONTAL	Peak
2	2365.245	48.42	27.28	3.43	37.60	41.53	54.00	-12.47	HORIZONTAL	Average
3	2390.000	47.71	27.33	3.48	37.59	40.93	54.00	-13.07	HORIZONTAL	Average
4	2390.000	59.68	27.33	3.48	37.59	52.90	74.00	-21.10	HORIZONTAL	Peak
5	* 2437.000	100.68	27.41	3.42	37.58	93.93	54.00	39.93	HORIZONTAL	Average
6	* 2437.000	111.37	27.41	3.42	37.58	104.62	74.00	30.62	HORIZONTAL	Peak
7	2483.500	47.78	27.48	3.53	37.57	41.22	54.00	-12.78	HORIZONTAL	Average
8	2483.500	59.96	27.48	3.53	37.57	53.40	74.00	-20.60	HORIZONTAL	Peak
9	2495.656	60.56	27.49	3.47	37.56	53.96	74.00	-20.04	HORIZONTAL	Peak
10	2497.630	48.22	27.50	3.40	37.56	41.56	54.00	-12.44	HORIZONTAL	Average

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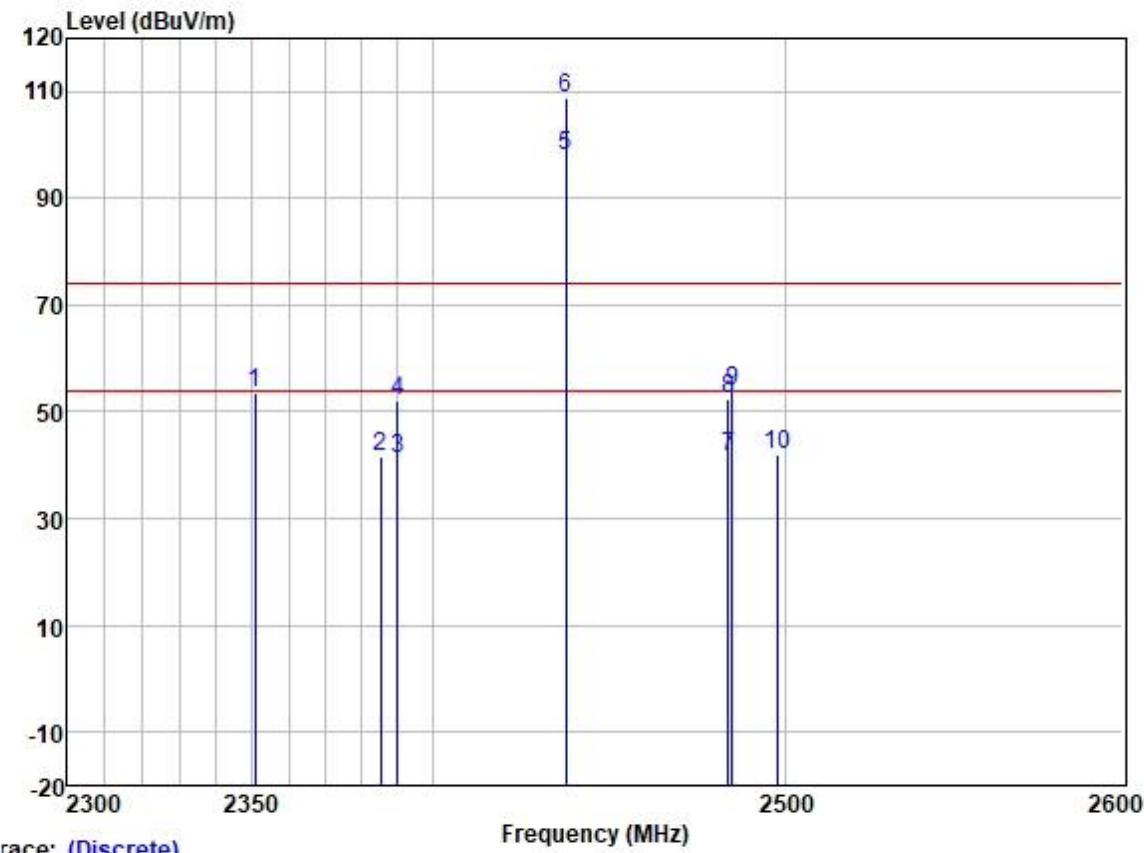
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:middle



Trace (Discrete)	ReadAntenna		Cable		Preamp		Level	Limit	Over		Remark
	Freq	Level	Factor	Loss	Factor	Line			Limit	Pol/Phase	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB			
1	2350.707	60.64	27.25	3.40	37.61	53.68	74.00	-20.32	VERTICAL	Peak	
2	2385.334	48.38	27.33	3.48	37.60	41.59	54.00	-12.41	VERTICAL	Average	
3	2390.000	47.89	27.33	3.48	37.59	41.11	54.00	-12.89	VERTICAL	Average	
4	2390.000	58.74	27.33	3.48	37.59	51.96	74.00	-22.04	VERTICAL	Peak	
5 *	2437.000	104.59	27.41	3.42	37.58	97.84	54.00	43.84	VERTICAL	Average	
6 *	2437.000	115.68	27.41	3.42	37.58	108.93	74.00	34.93	VERTICAL	Peak	
7	2483.500	48.04	27.48	3.53	37.57	41.48	54.00	-12.52	VERTICAL	Average	
8	2483.500	59.05	27.48	3.53	37.57	52.49	74.00	-21.51	VERTICAL	Peak	
9	2484.634	60.43	27.48	3.53	37.57	53.87	74.00	-20.13	VERTICAL	Peak	
10	2497.630	48.57	27.50	3.40	37.56	41.91	54.00	-12.09	VERTICAL	Average	

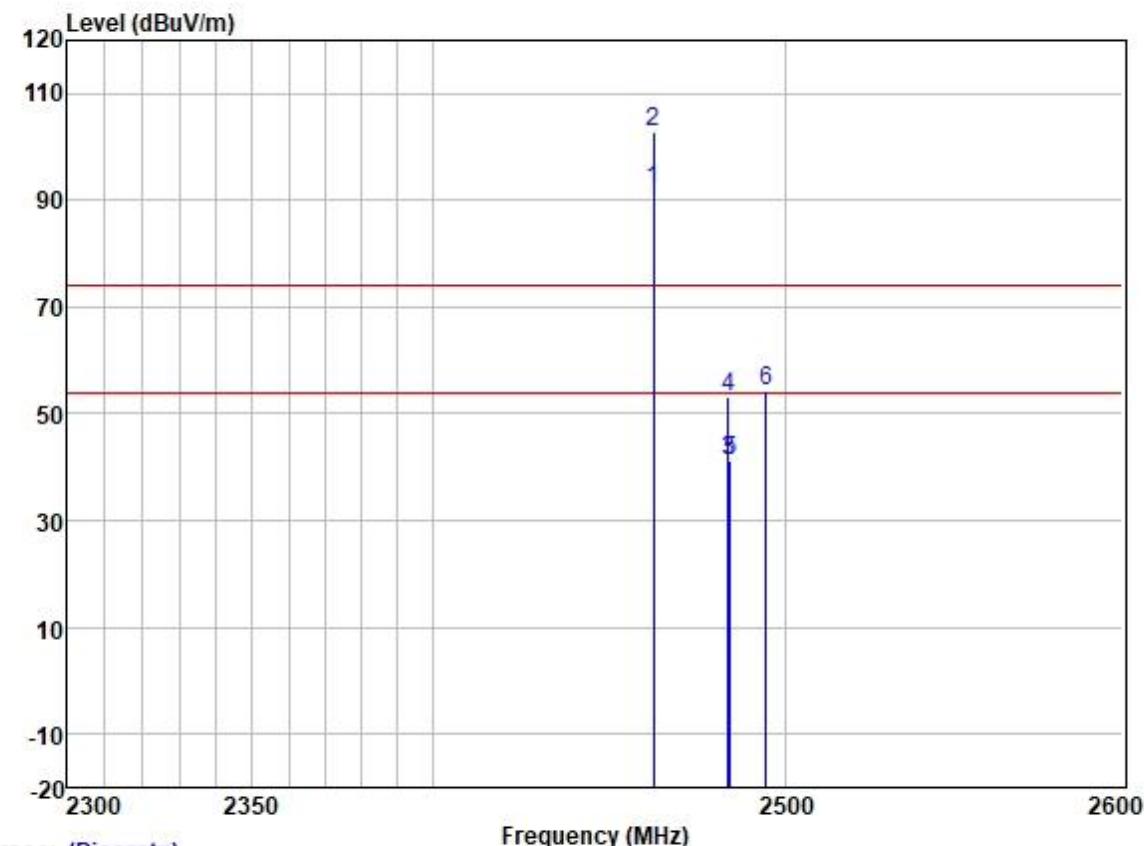
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:11

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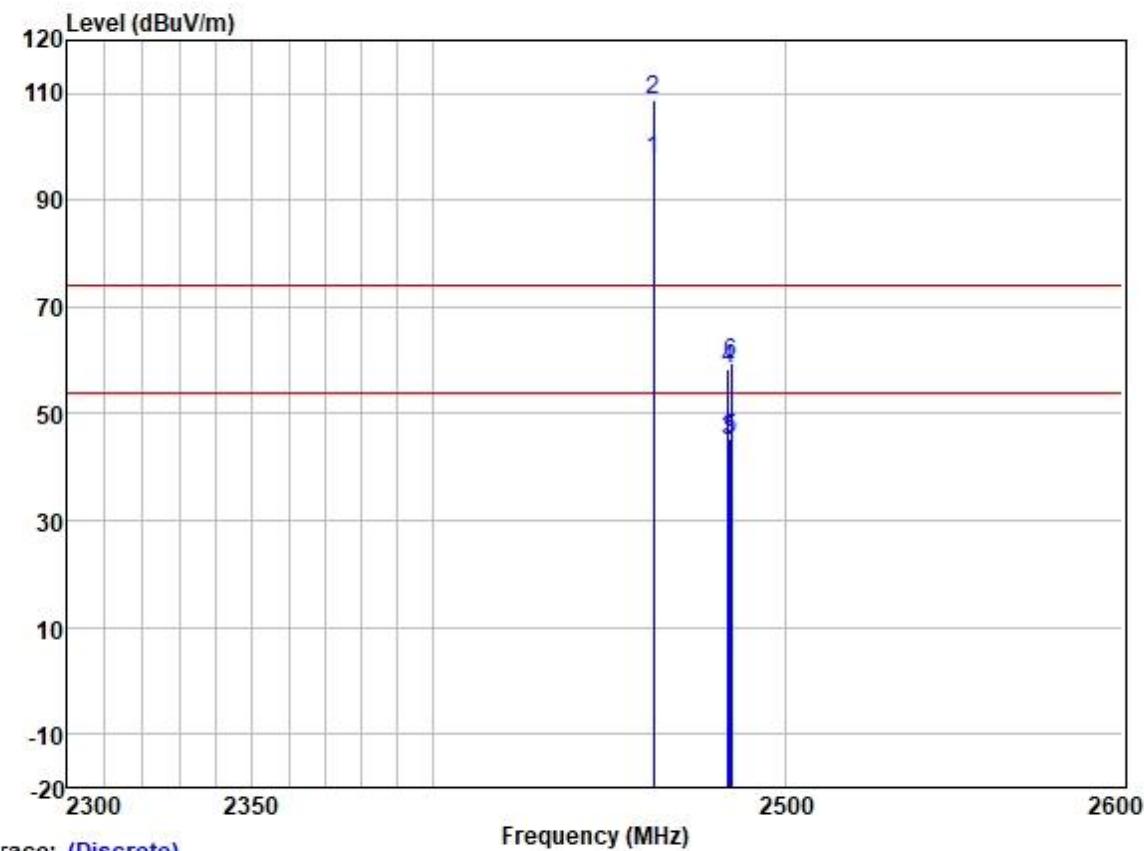
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:11



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2462.000	104.08	27.45	3.50	37.58	97.45	54.00	43.45	VERTICAL	Average
2 *	2462.000	115.27	27.45	3.50	37.58	108.64	74.00	34.64	VERTICAL	Peak
3	2483.500	51.46	27.48	3.53	37.57	44.90	54.00	-9.10	VERTICAL	Average
4	2483.500	65.11	27.48	3.53	37.57	58.55	74.00	-15.45	VERTICAL	Peak
5	2483.979	51.88	27.48	3.53	37.57	45.32	54.00	-8.68	VERTICAL	Average
6	2484.255	66.14	27.48	3.53	37.57	59.58	74.00	-14.42	VERTICAL	Peak

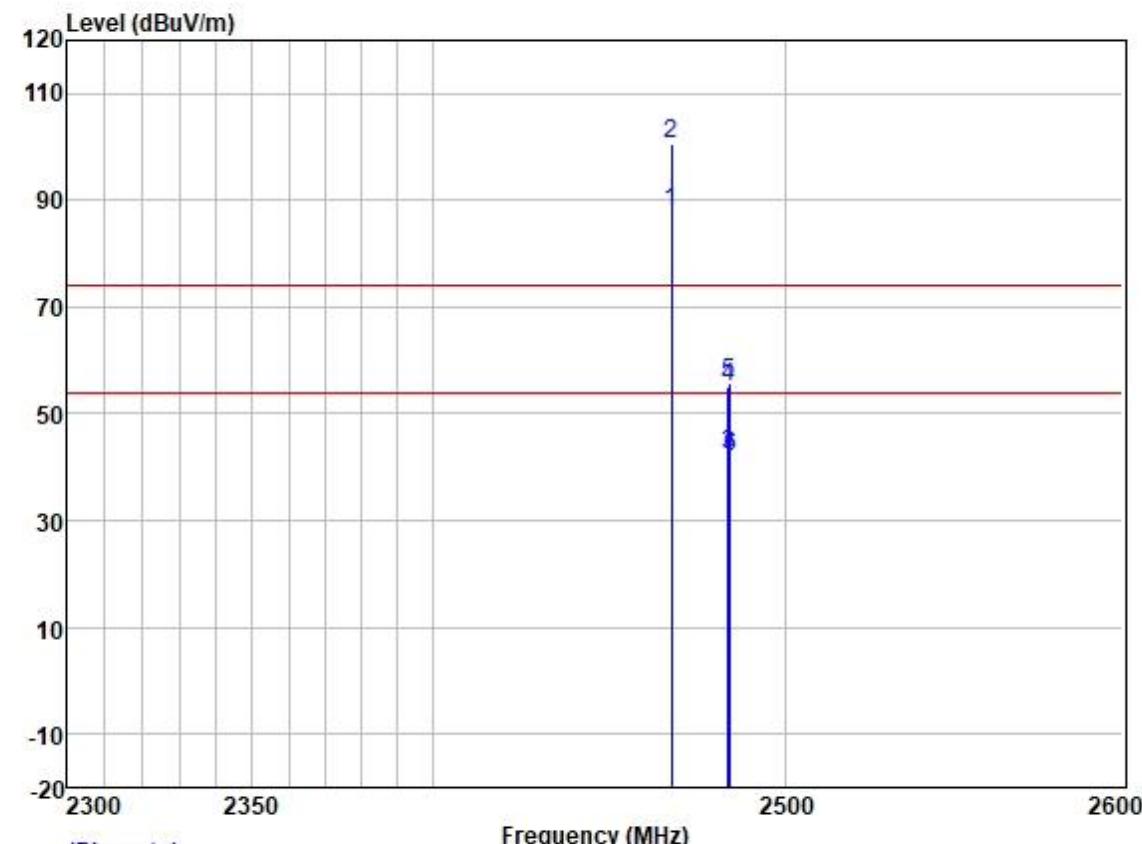
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:12



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2467.000	94.70	27.45	3.50	37.57	88.08	54.00	34.08	HORIZONTAL	Average
2 *	2467.000	107.12	27.45	3.50	37.57	100.50	74.00	26.50	HORIZONTAL	Peak
3	2483.500	48.88	27.48	3.53	37.57	42.32	54.00	-11.68	HORIZONTAL	Average
4	2483.500	61.75	27.48	3.53	37.57	55.19	74.00	-18.81	HORIZONTAL	Peak
5	2483.790	62.38	27.48	3.53	37.57	55.82	74.00	-18.18	HORIZONTAL	Peak
6	2483.940	48.38	27.48	3.53	37.57	41.82	54.00	-12.18	HORIZONTAL	Average

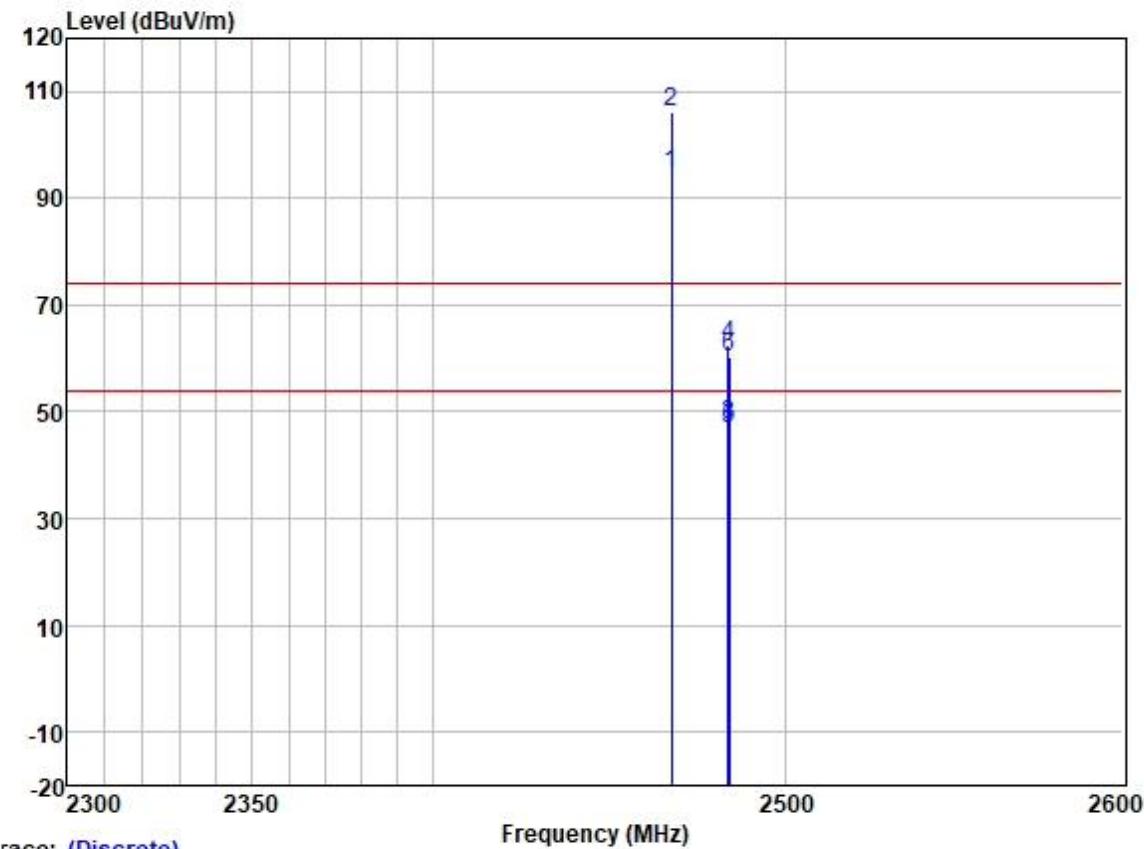
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:12



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1 *	2467.000	101.16	27.45	3.50	37.57	94.54	54.00	40.54	VERTICAL	Average
2 *	2467.000	112.93	27.45	3.50	37.57	106.31	74.00	32.31	VERTICAL	Peak
3	2483.500	54.23	27.48	3.53	37.57	47.67	54.00	-6.33	VERTICAL	Average
4	2483.500	68.92	27.48	3.53	37.57	62.36	74.00	-11.64	VERTICAL	Peak
5	2483.840	53.24	27.48	3.53	37.57	46.68	54.00	-7.32	VERTICAL	Average
6	2483.840	66.90	27.48	3.53	37.57	60.34	74.00	-13.66	VERTICAL	Peak

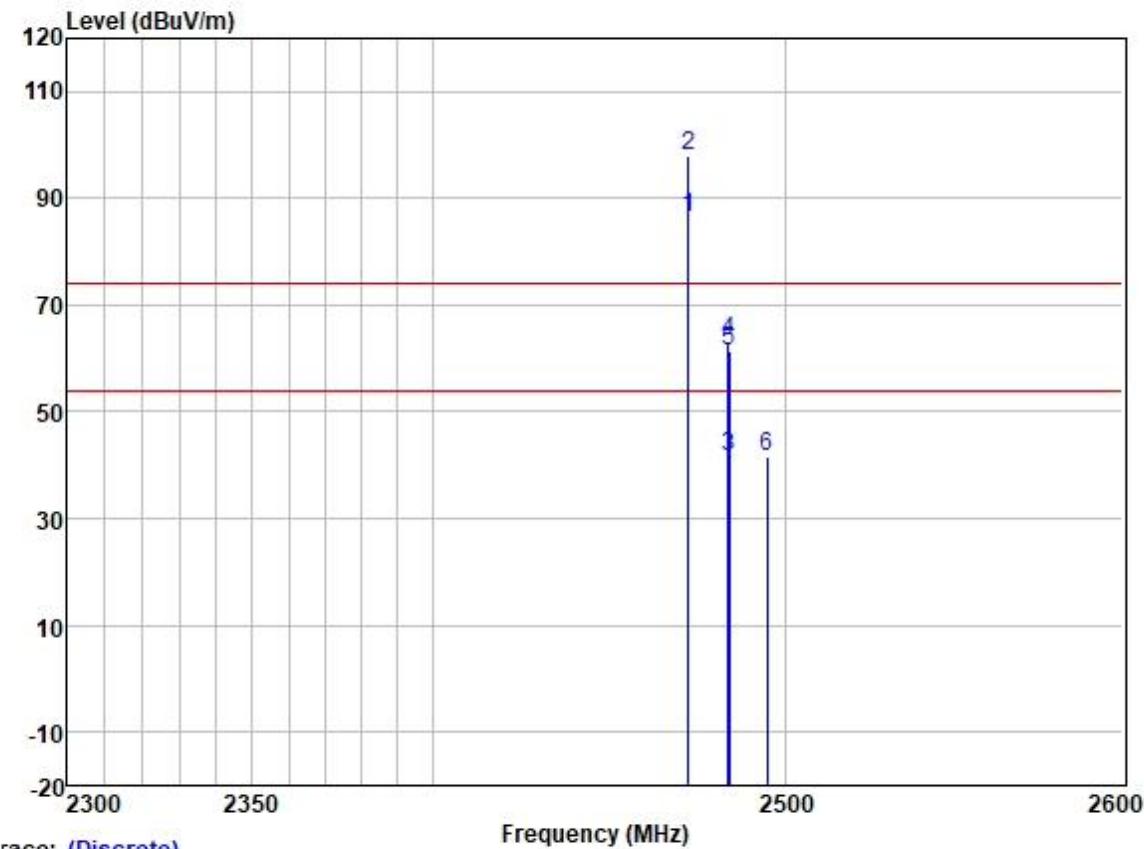
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:20MHz; Channel:13



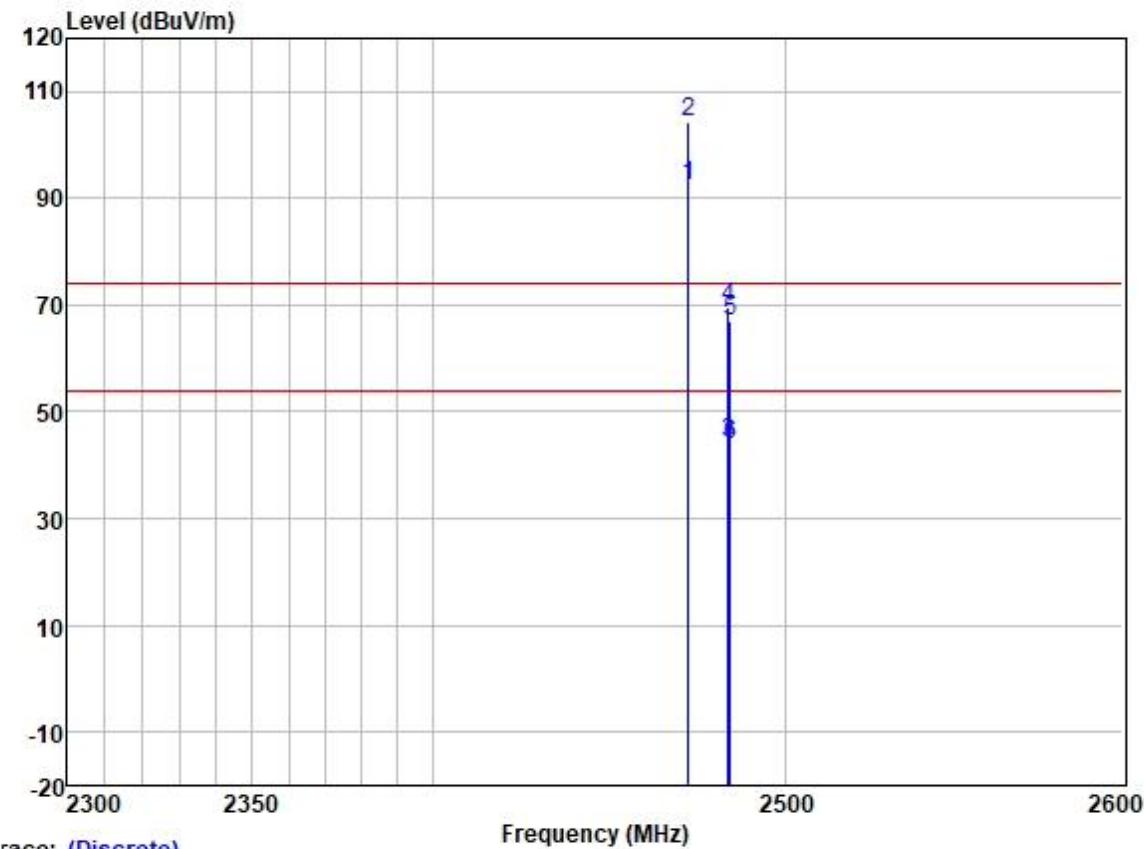
Freq	ReadAntenna		Cable		Preamp		Limit	Over		Remark
	Level	Factor	Loss	Factor	Level	Line		Limit	Pol/Phase	
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	
1 *	2472.000	92.98	27.46	3.55	37.57	86.42	54.00	32.42	HORIZONTAL	Average
2 *	2472.000	104.39	27.46	3.55	37.57	97.83	74.00	23.83	HORIZONTAL	Peak
3	2483.500	48.16	27.48	3.53	37.57	41.60	54.00	-12.40	HORIZONTAL	Average
4	2483.500	69.86	27.48	3.53	37.57	63.30	74.00	-10.70	HORIZONTAL	Peak
5	2483.840	68.09	27.48	3.53	37.57	61.53	74.00	-12.47	HORIZONTAL	Peak
6	2494.551	48.06	27.49	3.47	37.56	41.46	54.00	-12.54	HORIZONTAL	Average

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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:20MHz; Channel:13



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2472.000	99.01	27.46	3.55	37.57	92.45	54.00	38.45	VERTICAL	Average
2 *	2472.000	110.71	27.46	3.55	37.57	104.15	74.00	30.15	VERTICAL	Peak
3	2483.500	50.87	27.48	3.53	37.57	44.31	54.00	-9.69	VERTICAL	Average
4	2483.500	76.30	27.48	3.53	37.57	69.74	74.00	-4.26	VERTICAL	Peak
5	2483.940	73.41	27.48	3.53	37.57	66.85	74.00	-7.15	VERTICAL	Peak
6	2484.091	50.31	27.48	3.53	37.57	43.75	54.00	-10.25	VERTICAL	Average

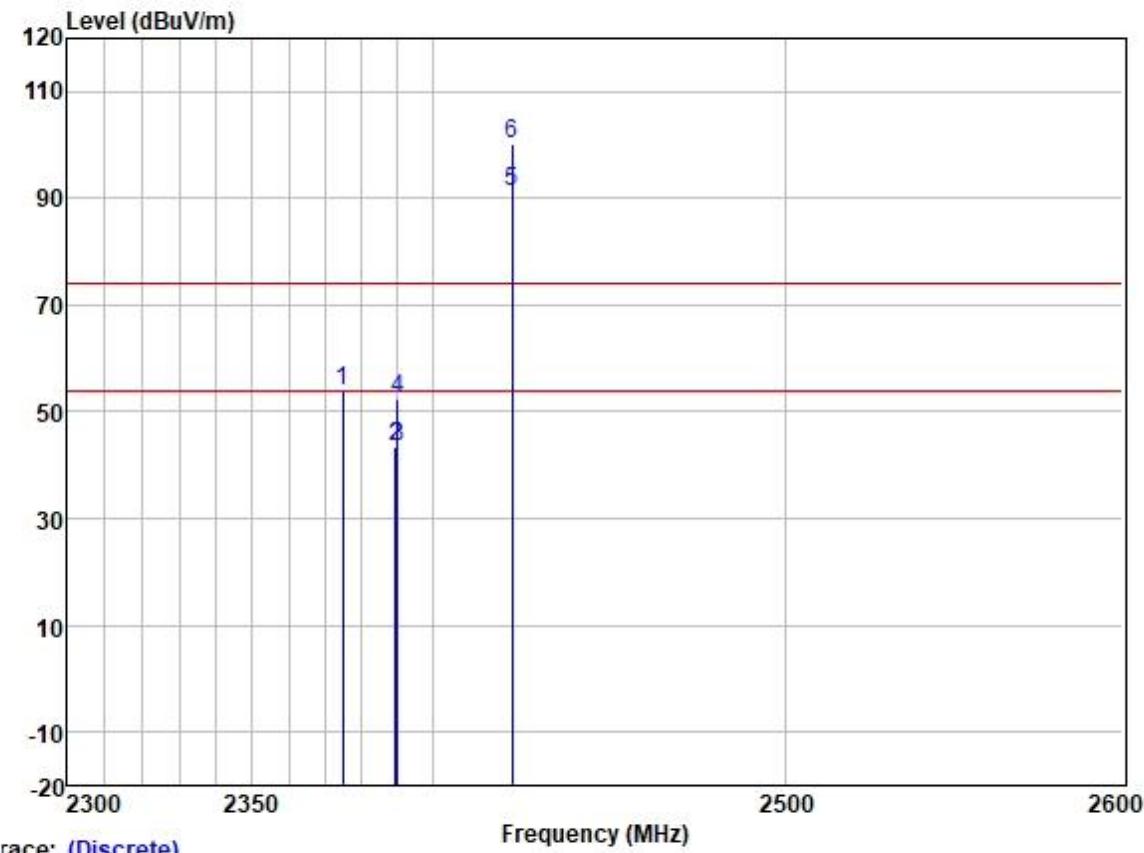
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low



Trace: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	2374.839	60.69	27.30	3.45	37.60	53.84	74.00	-20.16	HORIZONTAL	Peak
2	2389.376	50.31	27.33	3.48	37.59	43.53	54.00	-10.47	HORIZONTAL	Average
3	2390.000	50.33	27.33	3.48	37.59	43.55	54.00	-10.45	HORIZONTAL	Average
4	2390.000	59.18	27.33	3.48	37.59	52.40	74.00	-21.60	HORIZONTAL	Peak
5 *	2422.000	98.05	27.39	3.45	37.58	91.31	54.00	37.31	HORIZONTAL	Average
6 *	2422.000	106.85	27.39	3.45	37.58	100.11	74.00	26.11	HORIZONTAL	Peak

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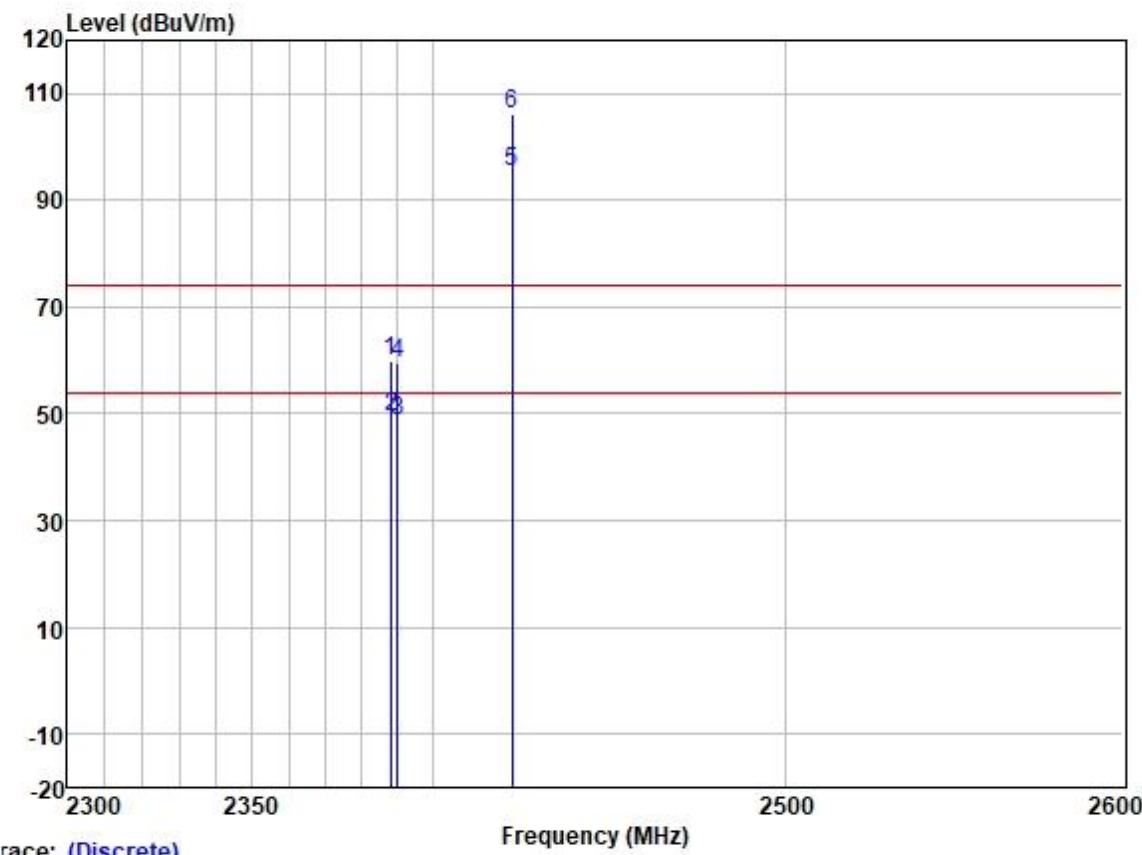
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:Low

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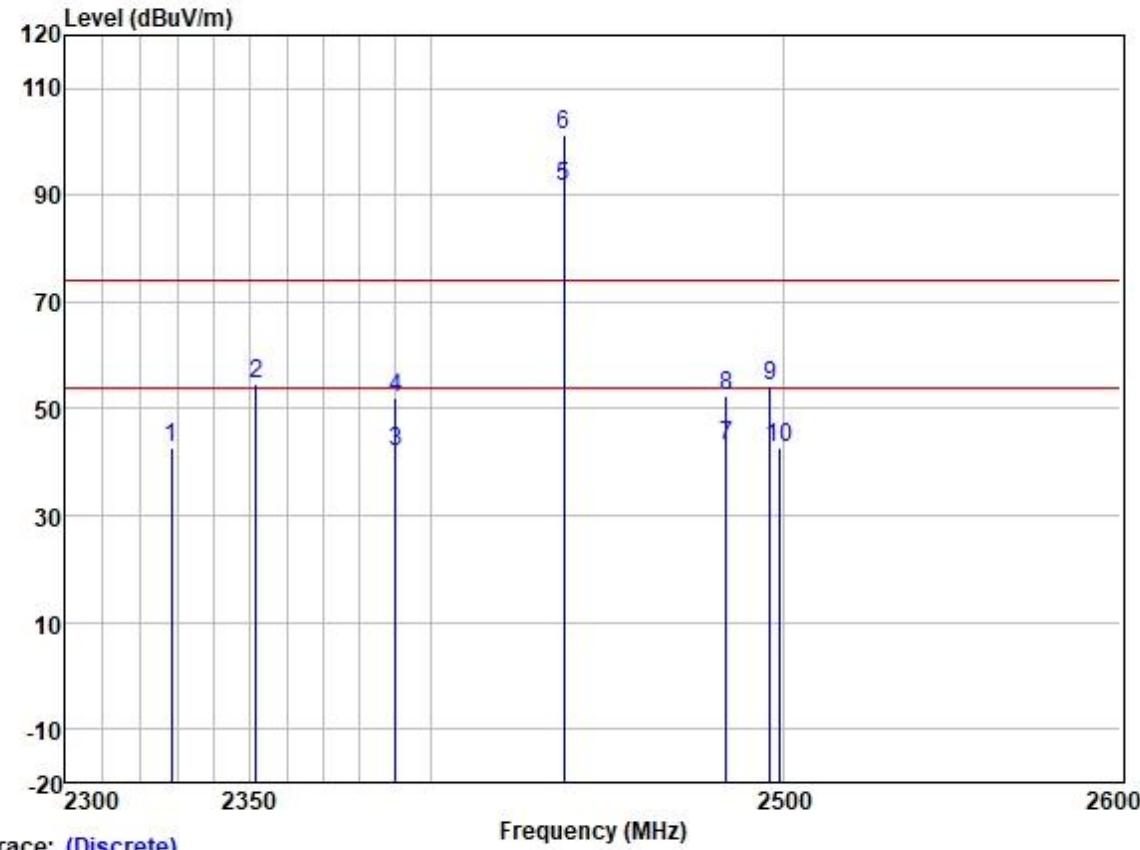
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:middle



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Line	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	2328.515	49.91	27.19	3.34	37.62	42.82	54.00	-11.18	HORIZONTAL	Average
2	2351.450	61.63	27.25	3.40	37.61	54.67	74.00	-19.33	HORIZONTAL	Peak
3	2390.000	48.85	27.33	3.48	37.59	42.07	54.00	-11.93	HORIZONTAL	Average
4	2390.000	58.98	27.33	3.48	37.59	52.20	74.00	-21.80	HORIZONTAL	Peak
5 *	2437.000	98.40	27.41	3.42	37.58	91.65	54.00	37.65	HORIZONTAL	Average
6 *	2437.000	107.94	27.41	3.42	37.58	101.19	74.00	27.19	HORIZONTAL	Peak
7	2483.500	49.48	27.48	3.53	37.57	42.92	54.00	-11.08	HORIZONTAL	Average
8	2483.500	59.17	27.48	3.53	37.57	52.61	74.00	-21.39	HORIZONTAL	Peak
9	2496.248	60.74	27.49	3.47	37.56	54.14	74.00	-19.86	HORIZONTAL	Peak
10	2499.012	49.37	27.50	3.40	37.56	42.71	54.00	-11.29	HORIZONTAL	Average

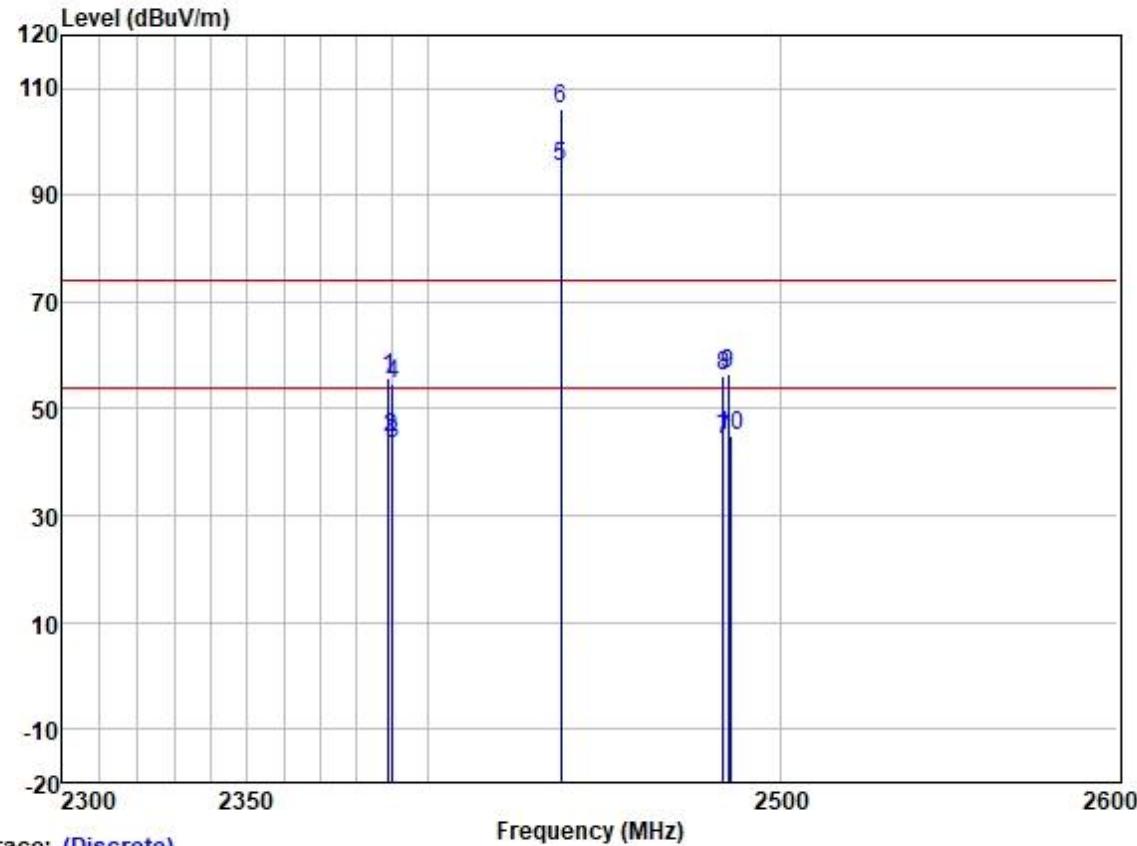
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	2388.919	62.48	27.33	3.48	37.59	55.70	74.00	-18.30	VERTICAL	Peak
2	2389.485	51.31	27.33	3.48	37.59	44.53	54.00	-9.47	VERTICAL	Average
3	2390.000	50.32	27.33	3.48	37.59	43.54	54.00	-10.46	VERTICAL	Average
4	2390.000	61.57	27.33	3.48	37.59	54.79	74.00	-19.21	VERTICAL	Peak
5 *	2437.000	102.19	27.41	3.42	37.58	95.44	54.00	41.44	VERTICAL	Average
6 *	2437.000	113.06	27.41	3.42	37.58	106.31	74.00	32.31	VERTICAL	Peak
7	2483.500	50.62	27.48	3.53	37.57	44.06	54.00	-9.94	VERTICAL	Average
8	2483.500	62.84	27.48	3.53	37.57	56.28	74.00	-17.72	VERTICAL	Peak
9	2485.027	63.21	27.48	3.53	37.57	56.65	74.00	-17.35	VERTICAL	Peak
10	2485.813	51.67	27.48	3.53	37.57	45.11	54.00	-8.89	VERTICAL	Average

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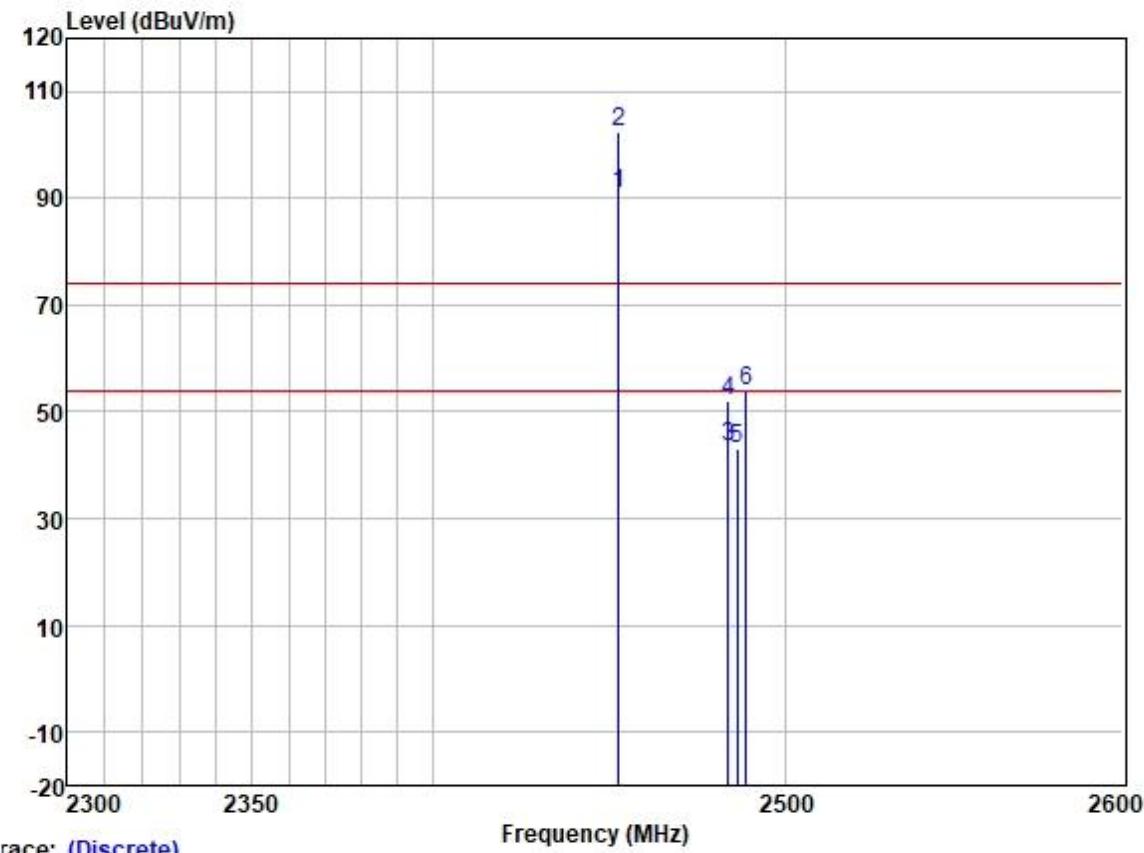
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:9



	Freq	ReadAntenna Level	Factor	Cable Loss	Preamp Factor	Level	dBuV/m	Limit Line	Over Line	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB		
1	2452.000	97.73	27.43	3.40	37.58	90.98	54.00	36.98	HORIZONTAL	Average	
2	2452.000	109.19	27.43	3.40	37.58	102.44	74.00	28.44	HORIZONTAL	Peak	
3	2483.500	49.86	27.48	3.53	37.57	43.30	54.00	-10.70	HORIZONTAL	Average	
4	2483.500	58.45	27.48	3.53	37.57	51.89	74.00	-22.11	HORIZONTAL	Peak	
5	2485.911	49.60	27.48	3.53	37.57	43.04	54.00	-10.96	HORIZONTAL	Average	
6	2488.737	60.49	27.48	3.53	37.56	53.94	74.00	-20.06	HORIZONTAL	Peak	

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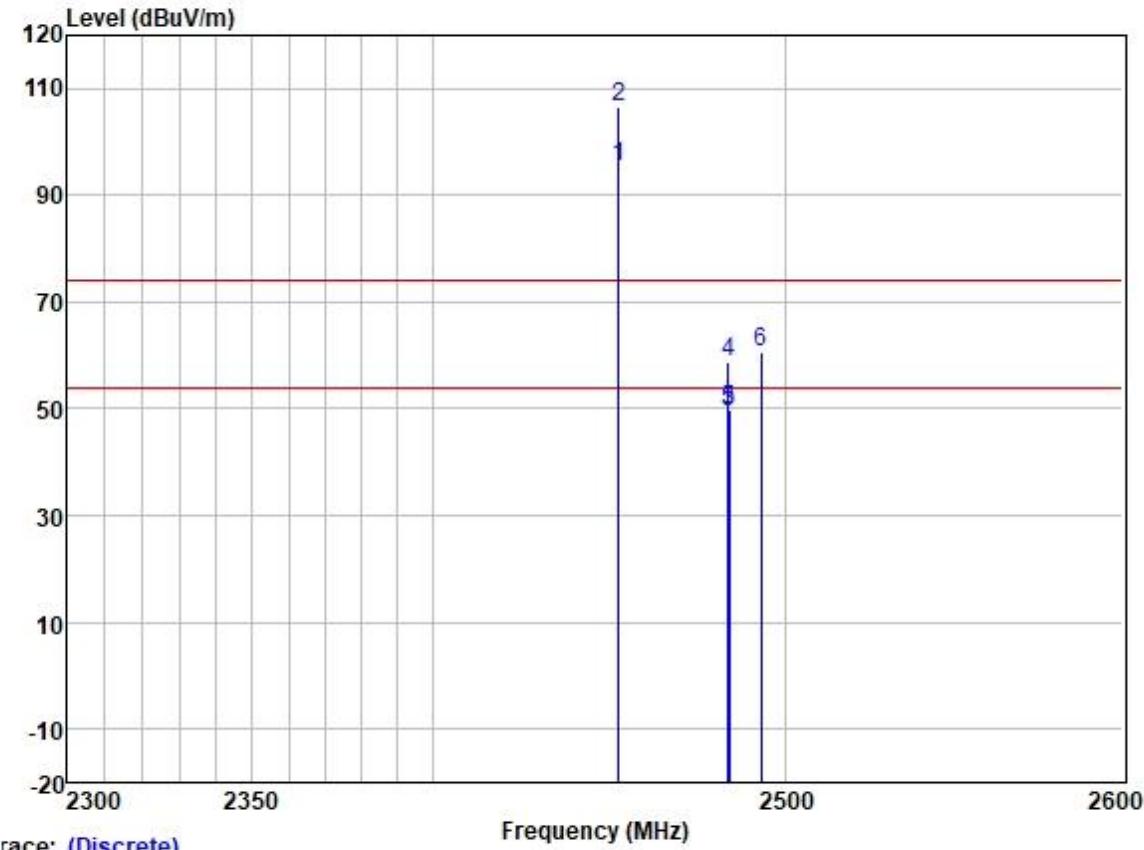
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:9



Trace (Discrete)	ReadAntenna		Cable		Preamp		Limit	Over		Remark
	Freq	Level	Factor	Loss	Factor	Level		Line	Limit	
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB		
1 *	2452.000	101.99	27.43	3.40	37.58	95.24	54.00	41.24	VERTICAL	Average
2 *	2452.000	113.16	27.43	3.40	37.58	106.41	74.00	32.41	VERTICAL	Peak
3	2483.500	55.91	27.48	3.53	37.57	49.35	54.00	-4.65	VERTICAL	Average
4	2483.500	65.25	27.48	3.53	37.57	58.69	74.00	-15.31	VERTICAL	Peak
5	2483.865	56.52	27.48	3.53	37.57	49.96	54.00	-4.04	VERTICAL	Average
6	2492.981	67.12	27.49	3.47	37.56	60.52	74.00	-13.48	VERTICAL	Peak

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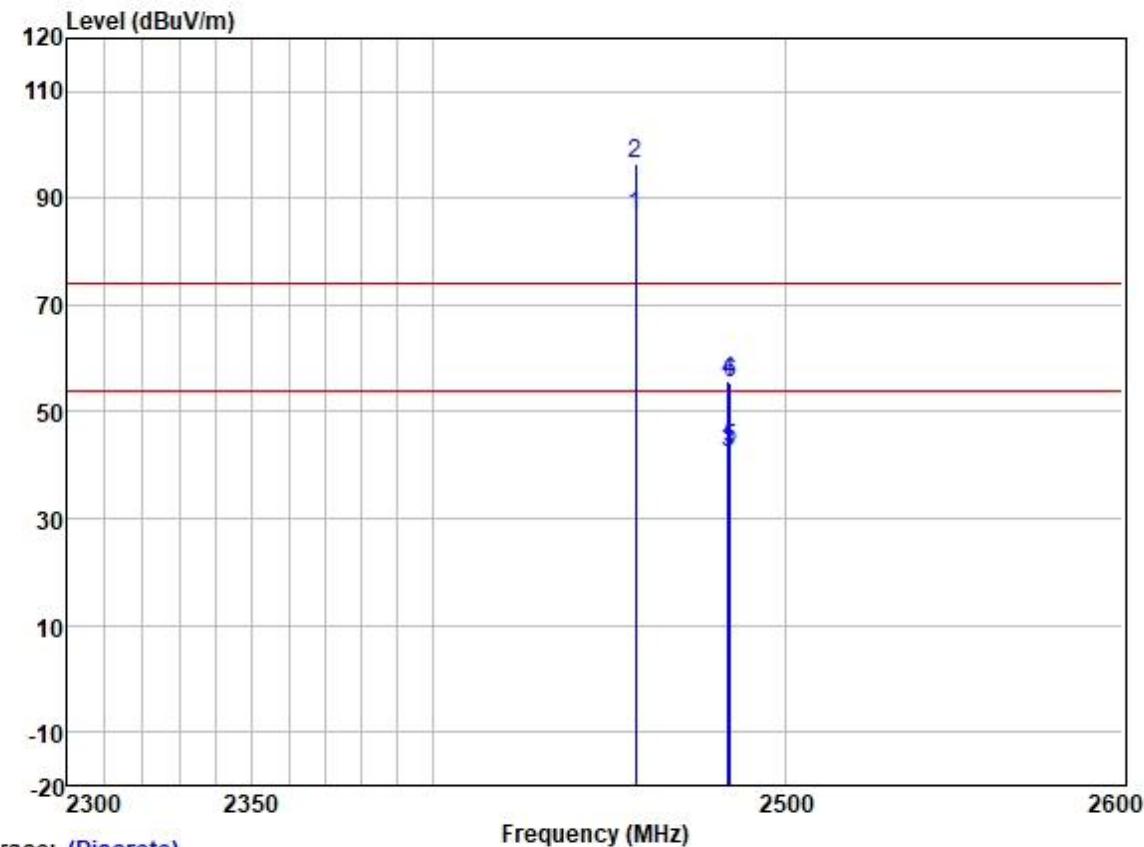
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Member of the SOS Group (SOS SA)

Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:10

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Guangzhou Branch Testing Center EEC Laboratory

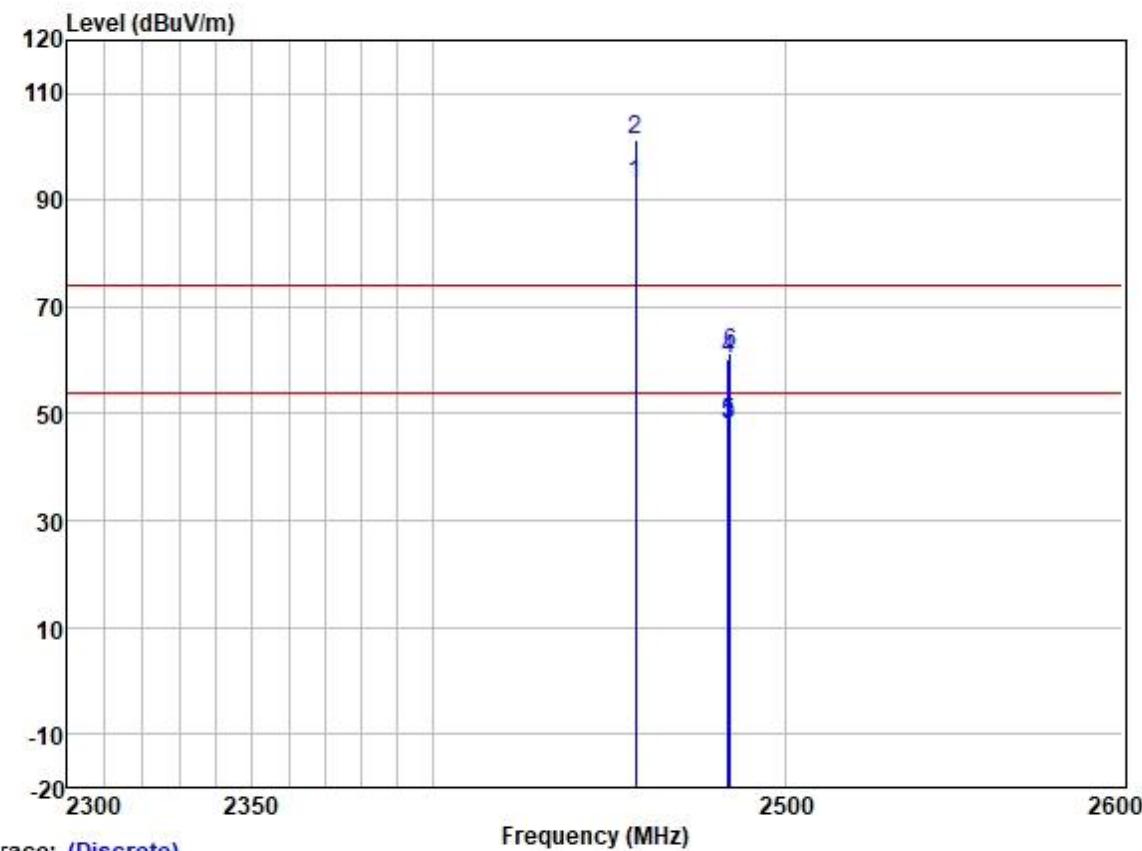
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:10



Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 * 2457.000	99.67	27.44	3.45	37.58	92.98	54.00	38.98	VERTICAL	Average	
2 * 2457.000	107.88	27.44	3.45	37.58	101.19	74.00	27.19	VERTICAL	Peak	
3 2483.500	54.47	27.48	3.53	37.57	47.91	54.00	-6.09	VERTICAL	Average	
4 2483.500	66.96	27.48	3.53	37.57	60.40	74.00	-13.60	VERTICAL	Peak	
5 2483.865	54.78	27.48	3.53	37.57	48.22	54.00	-5.78	VERTICAL	Average	
6 2483.935	67.76	27.48	3.53	37.57	61.20	74.00	-12.80	VERTICAL	Peak	

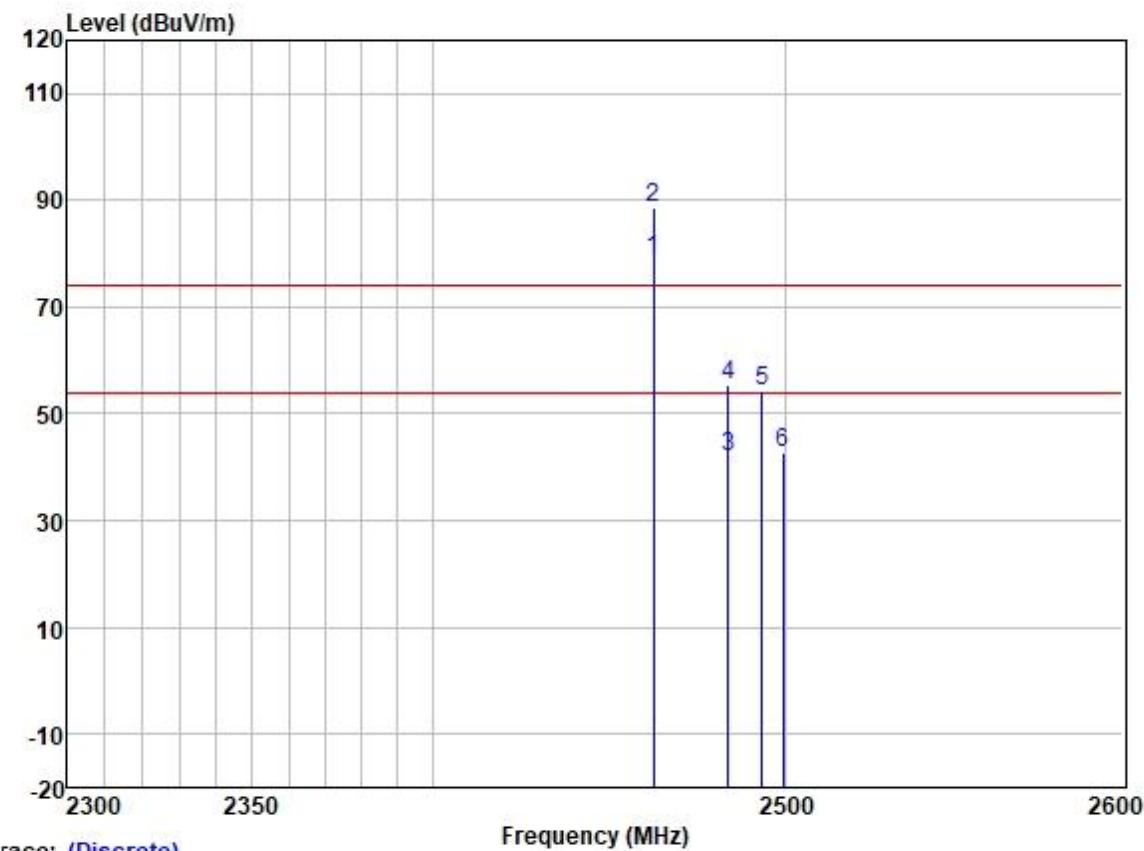
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11ax; Bandwidth:40MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Line	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 * 2462.000	85.43	27.45	3.50	37.58	78.80	54.00	24.80	HORIZONTAL	Average	
2 * 2462.000	95.17	27.45	3.50	37.58	88.54	74.00	14.54	HORIZONTAL	Peak	
3 2483.500	48.51	27.48	3.53	37.57	41.95	54.00	-12.05	HORIZONTAL	Average	
4 2483.500	62.06	27.48	3.53	37.57	55.50	74.00	-18.50	HORIZONTAL	Peak	
5 2493.264	60.91	27.49	3.47	37.56	54.31	74.00	-19.69	HORIZONTAL	Peak	
6 2499.219	49.26	27.50	3.40	37.56	42.60	54.00	-11.40	HORIZONTAL	Average	

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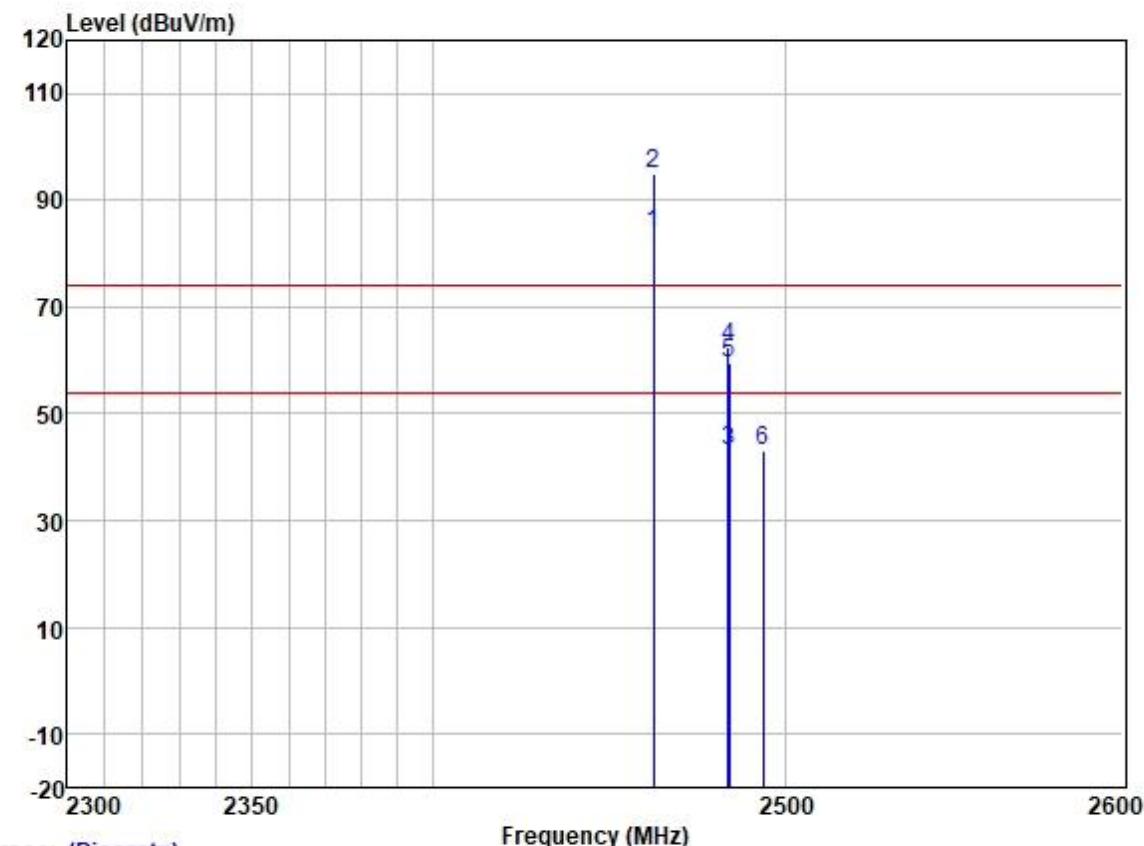
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Test Mode: 21; Polarity: Vertical; Modulation:802.11ax; Bandwidth:40MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Line	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1 *	2462.000	90.52	27.45	3.50	37.58	83.89	54.00	29.89	VERTICAL	Average
2 *	2462.000	101.62	27.45	3.50	37.58	94.99	74.00	20.99	VERTICAL	Peak
3	2483.500	49.58	27.48	3.53	37.57	43.02	54.00	-10.98	VERTICAL	Average
4	2483.500	68.90	27.48	3.53	37.57	62.34	74.00	-11.66	VERTICAL	Peak
5	2483.865	66.14	27.48	3.53	37.57	59.58	74.00	-14.42	VERTICAL	Peak
6	2493.618	49.61	27.49	3.47	37.56	43.01	54.00	-10.99	VERTICAL	Average

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**7.3 Radiated Spurious Emissions (Below 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.3.1 E.U.T. Operation**

Operating Environment:

Temperature: 26.4 °C      Humidity: 56.7 % RH      Atmospheric Pressure: 1010 mbar

**7.3.2 Test Mode Description**

Pre-scan / Mode Final test	Mode Code	Description
Final test	21	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

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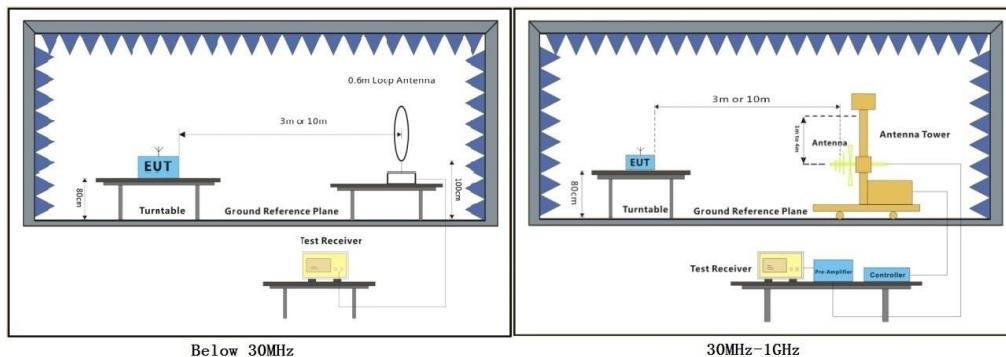
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### 7.3.3 Test Setup Diagram



### 7.3.4 Measurement Procedure and Data

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

#### Remark:

1) Through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

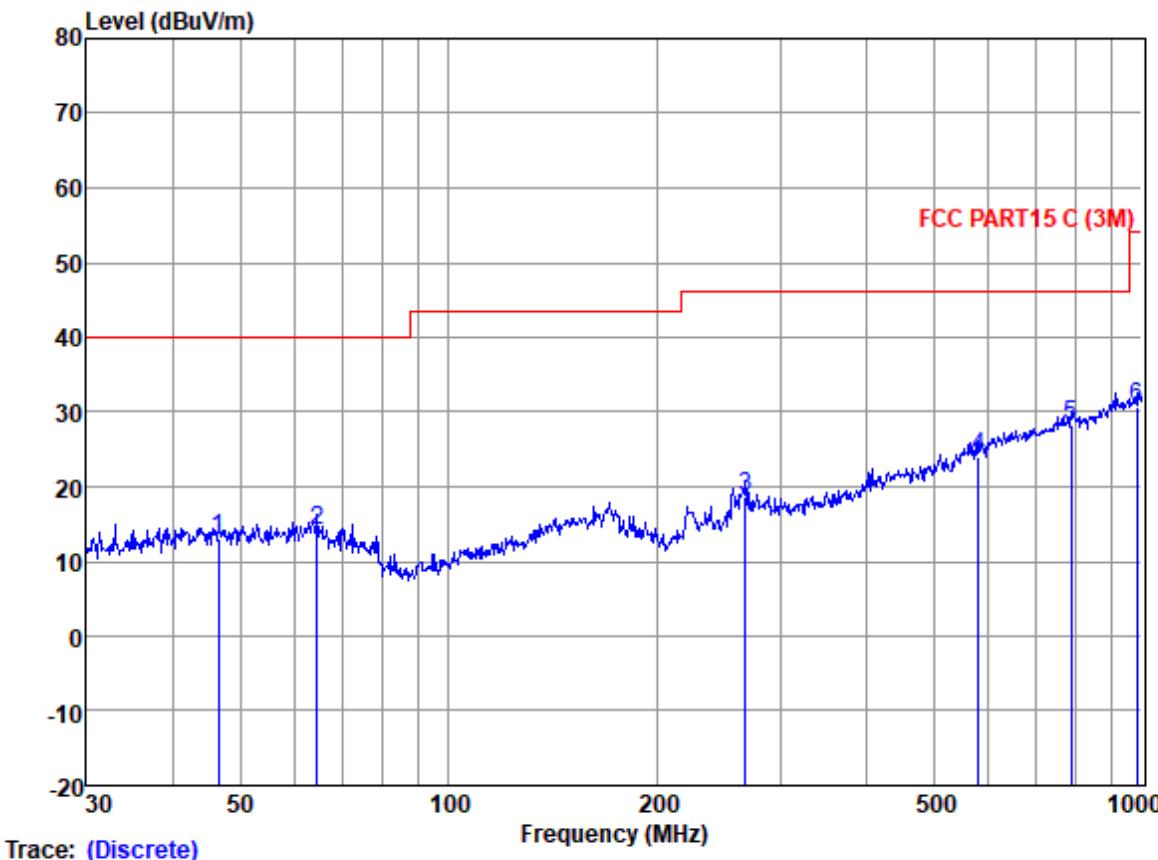
3) Scan from 9kHz to 1 GHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

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Test Mode: 21; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : SGS  
Condition : FCC PART15 C (3M)  
Job :  
Model :  
Power :  
Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 46.50	25.22	13.92	1.13	27.17	13.10	40.00	-26.90	HORIZONTAL	QP
2 64.43	27.18	12.83	1.34	27.15	14.20	40.00	-25.80	HORIZONTAL	QP
3 267.55	29.78	12.55	3.04	26.58	18.79	46.00	-27.21	HORIZONTAL	QP
4 580.70	28.04	19.20	5.02	28.18	24.08	46.00	-21.92	HORIZONTAL	QP
5 790.62	27.60	22.50	6.14	28.04	28.20	46.00	-17.80	HORIZONTAL	QP
6 982.62	26.88	24.13	7.31	27.68	30.64	54.00	-23.36	HORIZONTAL	QP

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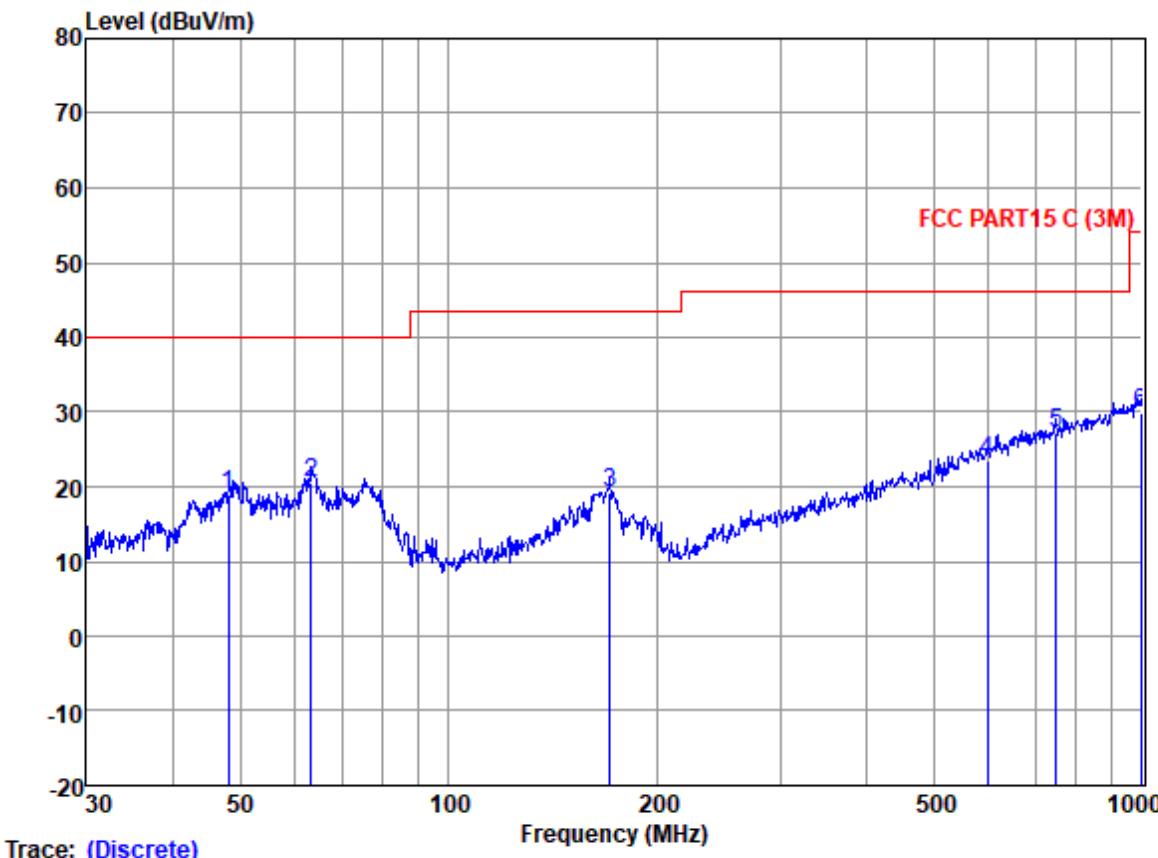
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Test Mode: 21; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Site : SGS  
Condition : FCC PART15 C (3M)  
Job :  
Model :  
Power :  
Test Mode :

Freq	Read	Antenna	Cable	Preamp	Measured	Limit	Over	Pol/	Remark
	Level	Factor	Loss	Factor	Level	Line	Limit	Phase	
1 47.99	30.88	14.00	1.13	27.17	18.84	40.00	-21.16	VERTICAL	QP
2 63.31	33.52	12.97	1.31	27.15	20.65	40.00	-19.35	VERTICAL	QP
3 170.79	30.53	13.07	2.40	26.77	19.23	43.50	-24.27	VERTICAL	QP
4 597.22	26.78	19.80	5.14	28.21	23.51	46.00	-22.49	VERTICAL	QP
5 750.11	27.14	22.20	5.97	28.10	27.21	46.00	-18.79	VERTICAL	QP
6 996.50	25.80	24.27	7.43	27.66	29.84	54.00	-24.16	VERTICAL	QP

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**7.4 Radiated Spurious Emissions (Above 1GHz)**

Test Requirement 47 CFR Part 15, Subpart C 15.205 &amp; 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5,6.6

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.

**7.4.1 E.U.T. Operation**

Operating Environment:

Temperature: 21.6 °C      Humidity: 51.8 % RH      Atmospheric Pressure: 1010 mbar

**7.4.2 Test Mode Description**

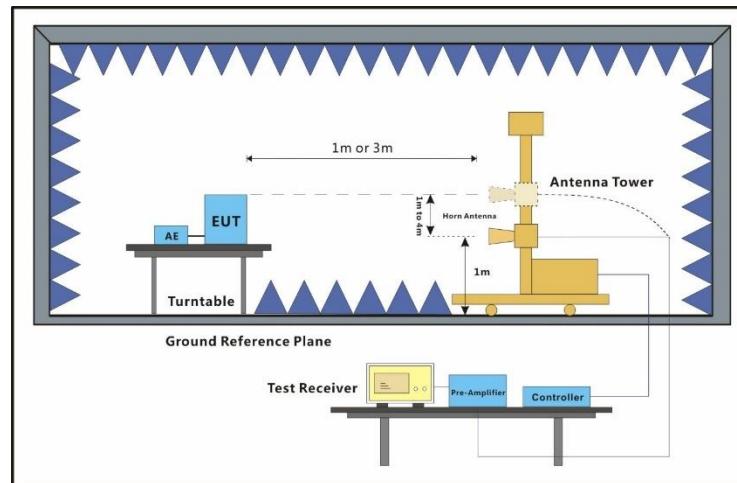
Pre-scan / Mode Final test	Mode Code	Description
Final test	21	TX mode_Keep the EUT in continuously transmitting mode with all modulation types. All data rates for each modulation type have been tested and found the data rate @ 1Mbps is the worst case of IEEE 802.11b; data rate @ 6Mbps is the worst case of IEEE 802.11g; data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT20); data rate @ HT0/HT8 is the worst case of IEEE 802.11n(HT40); data rate @ HE0 is the worst case of IEEE 802.11ax(HT20); data rate @ HE0 is the worst case of IEEE 802.11ax(HT40). Only the data of worst case is recorded in the report.

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**7.4.3 Test Setup Diagram**

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**7.4.4 Measurement Procedure and Data**

- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- h. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- i. Repeat above procedures until all frequencies measured was complete.

**Remark:**

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 2) Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

- 3) The field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

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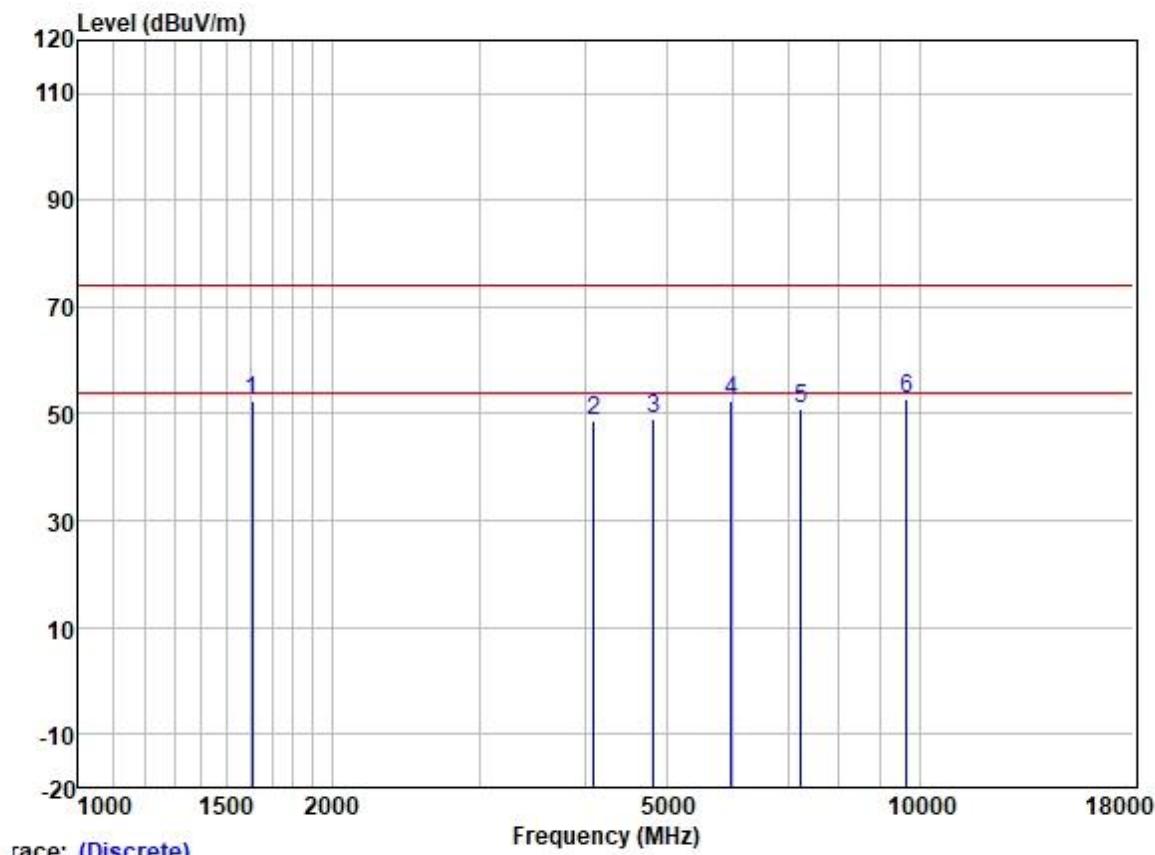
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
	MHz	dBuV	dB	dB									
1 1611.091	61.94	25.59	2.80	37.98	52.35	74.00	-21.65	HORIZONTAL	Peak				
2 4098.010	50.99	29.94	4.60	36.80	48.73	74.00	-25.27	HORIZONTAL	Peak				
3 4824.000	49.19	31.45	5.42	36.83	49.23	74.00	-24.77	HORIZONTAL	Peak				
4 5967.033	50.84	32.37	6.10	36.90	52.41	74.00	-21.59	HORIZONTAL	Peak				
5 7236.000	46.64	35.70	6.03	37.39	50.98	74.00	-23.02	HORIZONTAL	Peak				
6 9648.000	44.84	38.40	7.06	37.42	52.88	74.00	-21.12	HORIZONTAL	Peak				

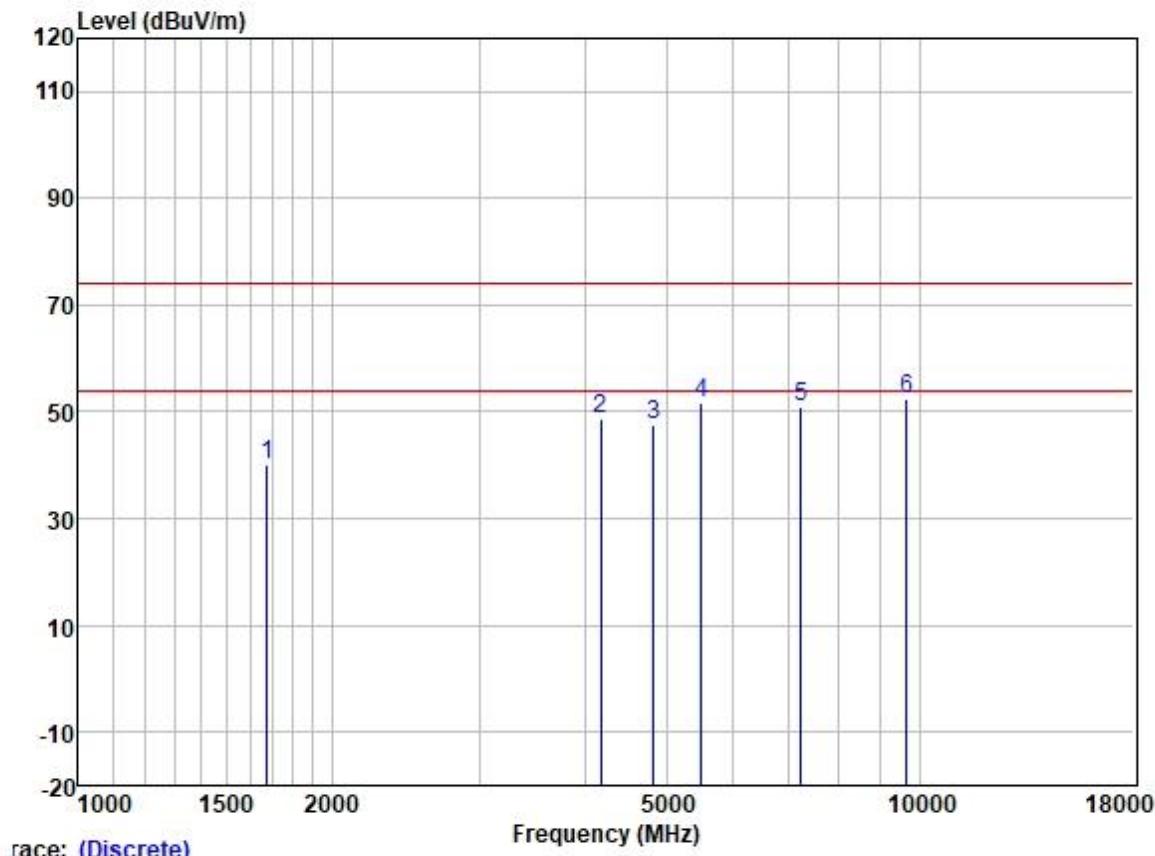
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Test Mode: 21; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:Low



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	Level	Factor	Loss	Factor							
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1 1677.621	49.66	25.68	2.80	37.91	40.23	74.00	-33.77	VERTICAL	Peak		
2 4181.768	50.91	30.12	4.60	36.80	48.83	74.00	-25.17	VERTICAL	Peak		
3 4824.000	47.70	31.45	5.42	36.83	47.74	74.00	-26.26	VERTICAL	Peak		
4 5503.143	50.53	31.80	6.40	36.88	51.85	74.00	-22.15	VERTICAL	Peak		
5 7236.000	46.54	35.70	6.03	37.39	50.88	74.00	-23.12	VERTICAL	Peak		
6 9648.000	44.43	38.40	7.06	37.42	52.47	74.00	-21.53	VERTICAL	Peak		

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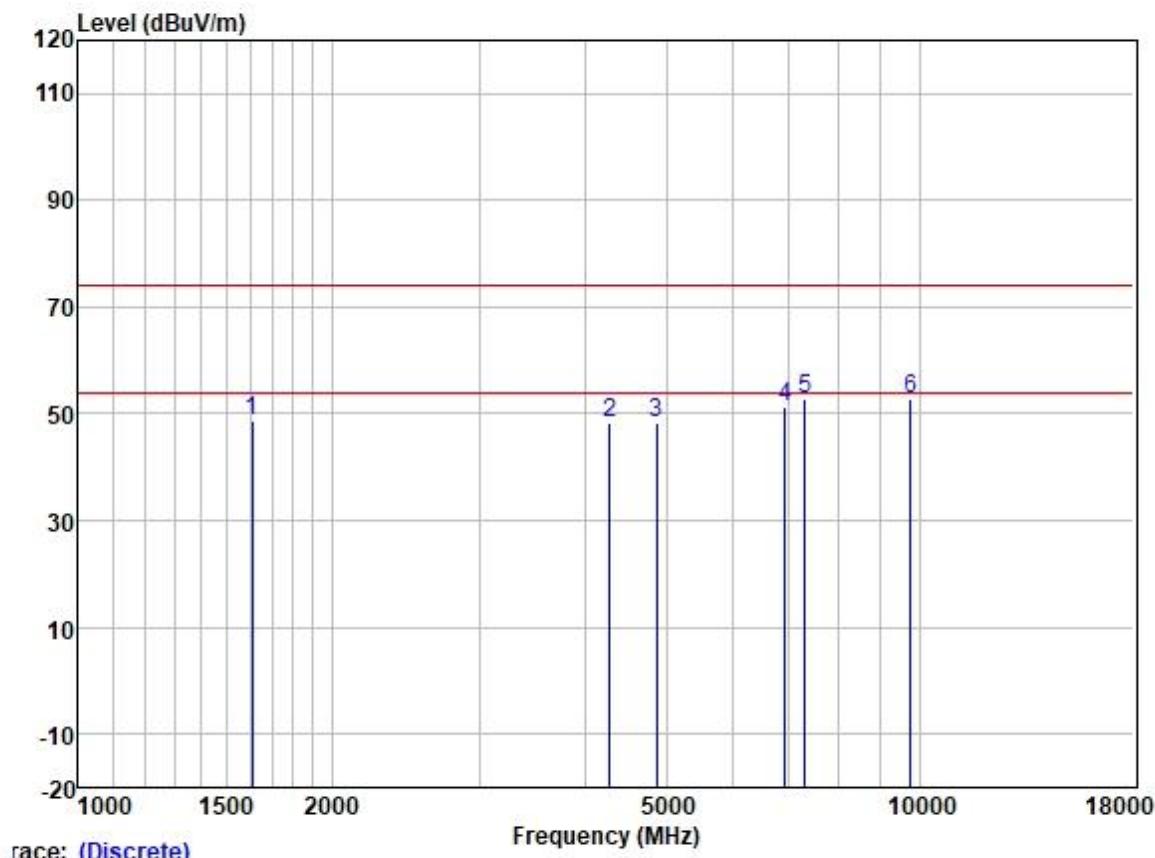
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:middle

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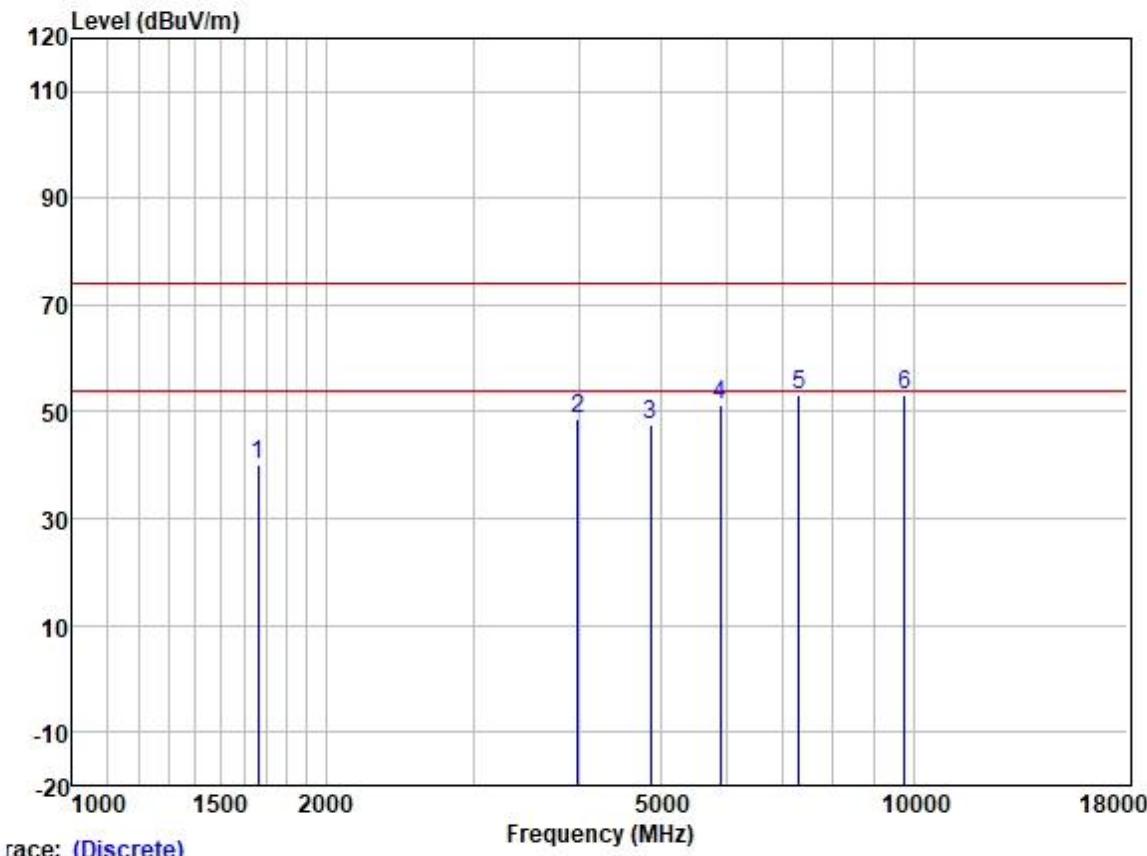
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Test Mode: 21; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Loss Factor	Limit Level	Over Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	dB/m	dB						
1 1663.137	49.40	25.65	2.80	37.91	39.94	74.00	-34.06	VERTICAL	Peak	
2 3992.781	51.04	29.79	4.60	36.80	48.63	74.00	-25.37	VERTICAL	Peak	
3 4874.000	47.44	31.54	5.50	36.84	47.64	74.00	-26.36	VERTICAL	Peak	
4 5898.442	50.08	32.31	5.90	36.90	51.39	74.00	-22.61	VERTICAL	Peak	
5 7311.000	48.43	35.93	6.11	37.42	53.05	74.00	-20.95	VERTICAL	Peak	
6 9748.000	45.11	38.50	7.02	37.41	53.22	74.00	-20.78	VERTICAL	Peak	

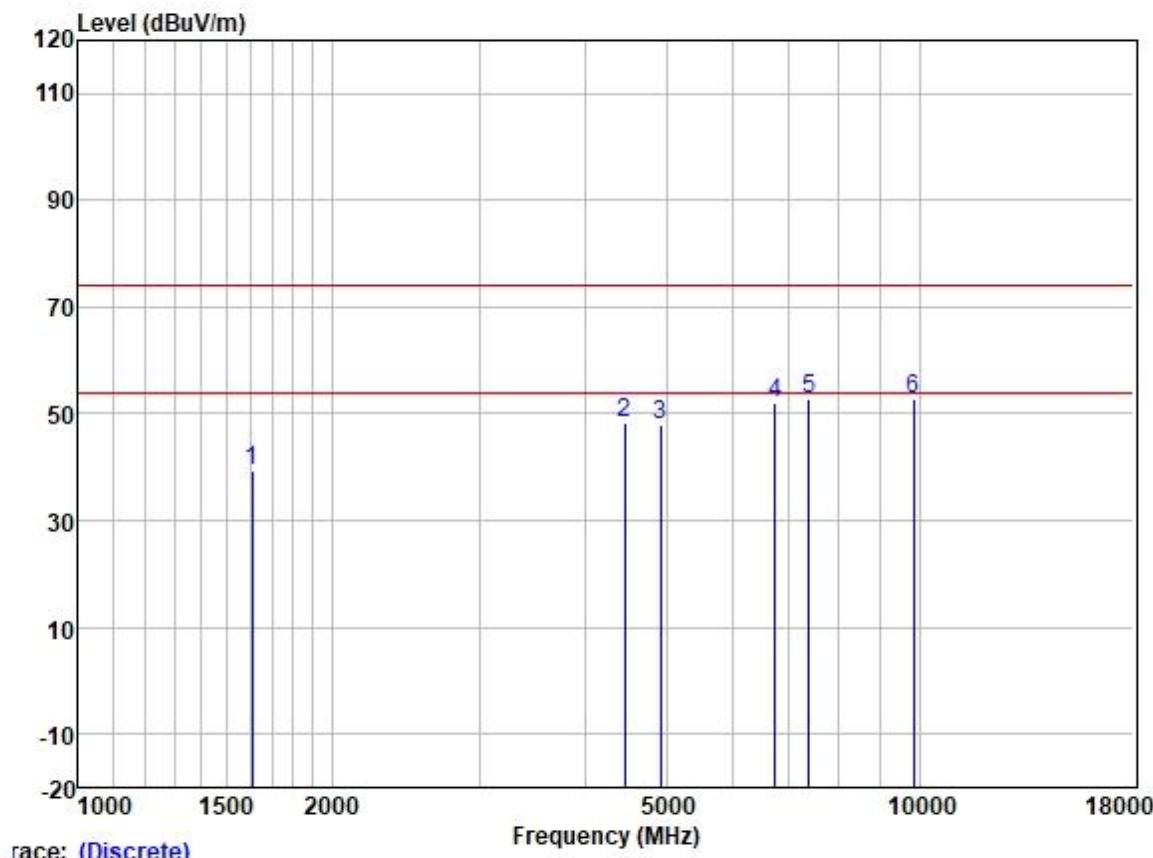
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:11

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Guangzhou Branch Testing Center EEC Laboratory

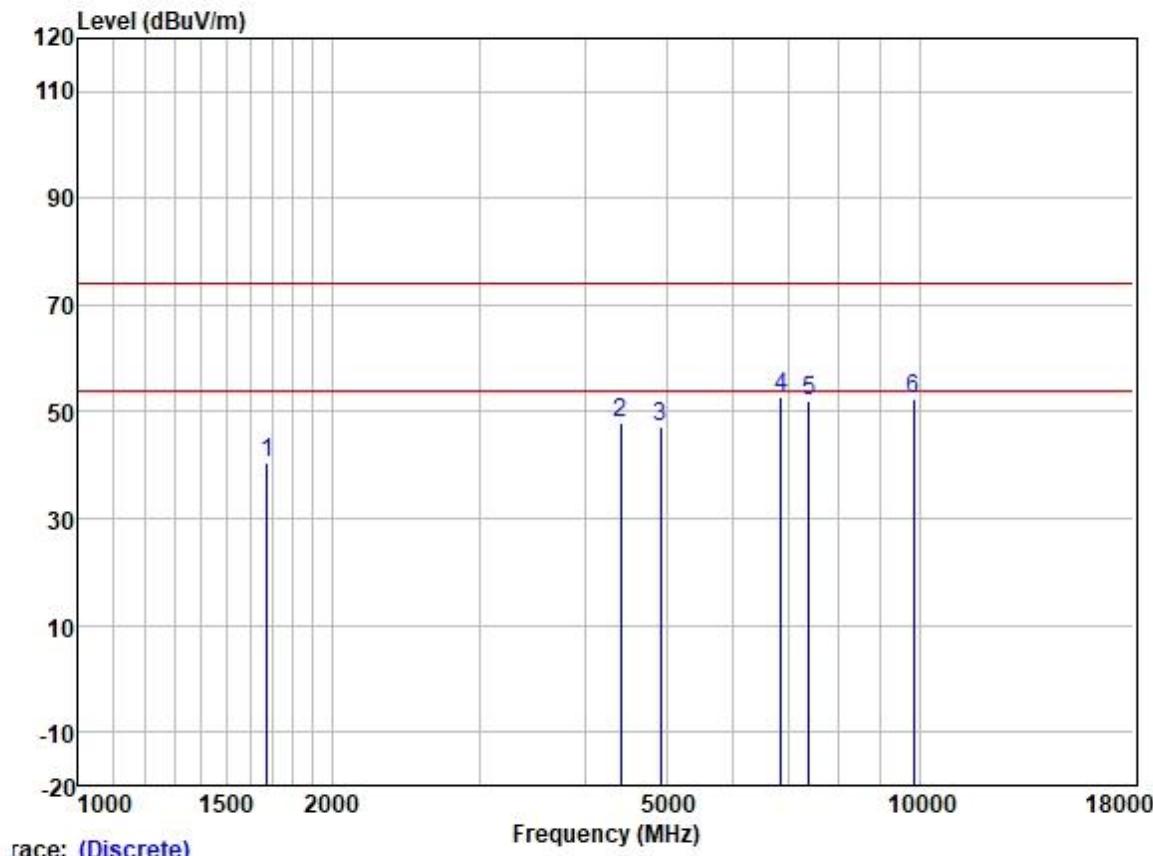
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Test Mode: 21; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:11



Mode: (Discrete)

Line	Freq	ReadAntenna		Cable		Preamp	Loss	Factor	Limit	Line	Over	Limit	Pol/Phase	Remark
		MHz	dBuV	dB	dB									
1	1677.621	49.90	25.68	2.80	37.91	40.47	74.00	-33.53	VERTICAL			Peak		
2	4417.841	49.33	30.70	4.74	36.81	47.96	74.00	-26.04	VERTICAL			Peak		
3	4924.000	46.81	31.62	5.60	36.84	47.19	74.00	-26.81	VERTICAL			Peak		
4	6855.063	49.34	34.78	5.82	37.15	52.79	74.00	-21.21	VERTICAL			Peak		
5	7386.000	47.00	36.17	6.19	37.45	51.91	74.00	-22.09	VERTICAL			Peak		
6	9848.000	44.25	38.58	6.99	37.41	52.41	74.00	-21.59	VERTICAL			Peak		

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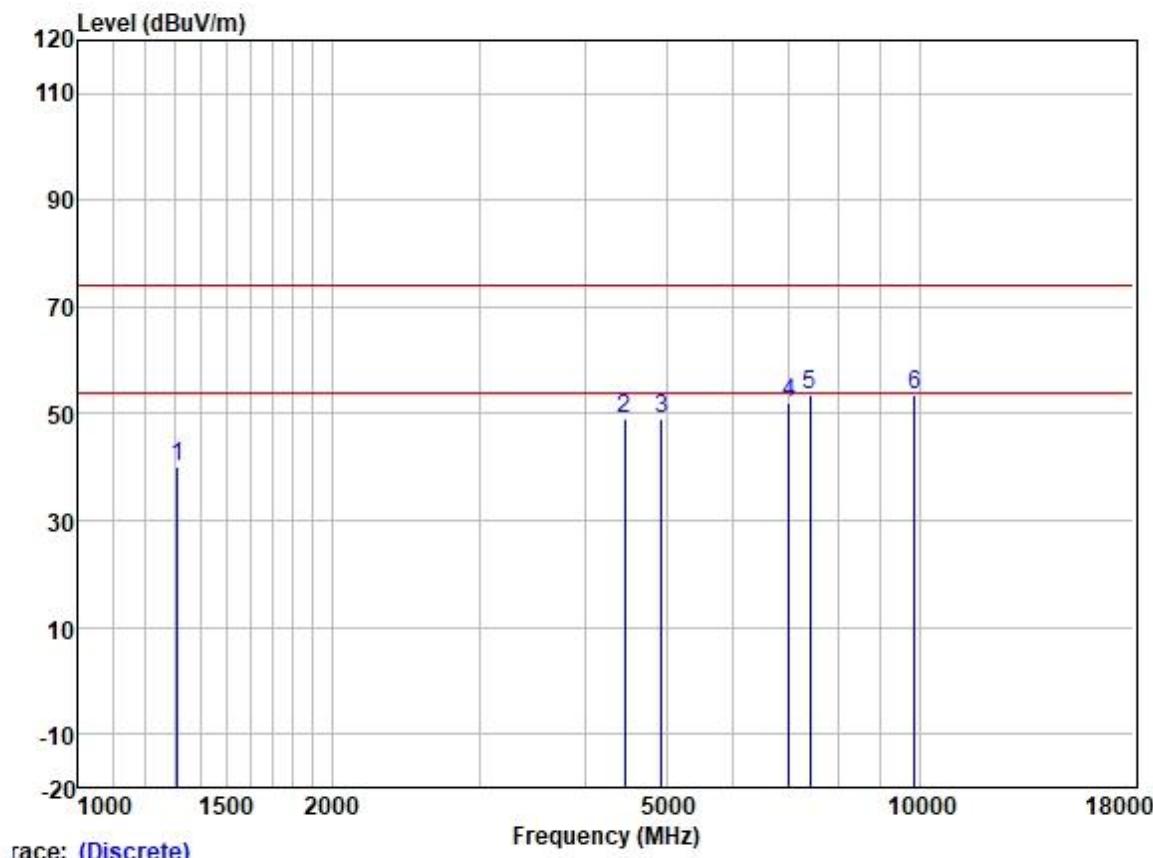


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Test Mode: 21; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:12



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1312.187	50.73	25.23	2.60	38.31	40.25	74.00	-33.75	HORIZONTAL	Peak	
2	4456.315	50.19	30.75	4.88	36.81	49.01	74.00	-24.99	HORIZONTAL	Peak	
3	4934.000	48.56	31.62	5.60	36.84	48.94	74.00	-25.06	HORIZONTAL	Peak	
4	6995.172	48.44	35.00	5.81	37.25	52.00	74.00	-22.00	HORIZONTAL	Peak	
5	7401.000	48.75	36.22	6.20	37.46	53.71	74.00	-20.29	HORIZONTAL	Peak	
6	9868.000	45.37	38.60	6.98	37.41	53.54	74.00	-20.46	HORIZONTAL	Peak	

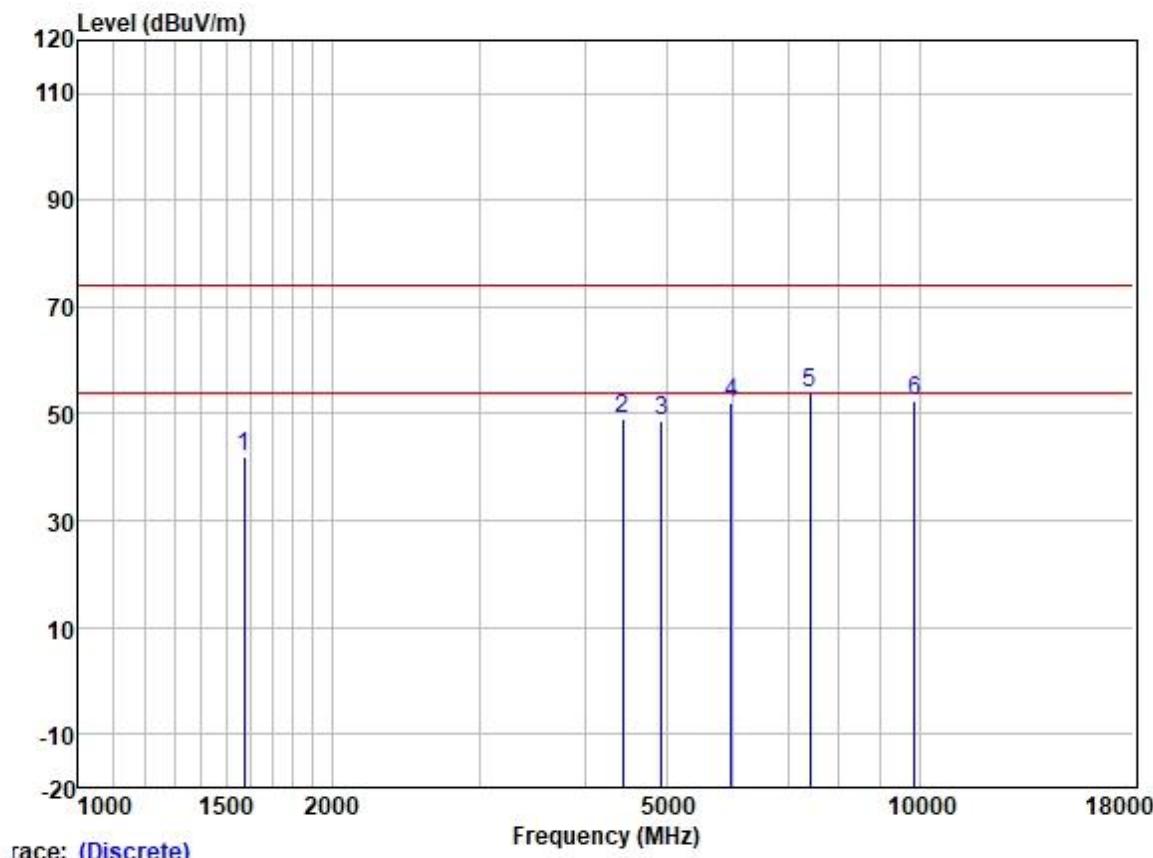
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Test Mode: 21; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:12



Freq	ReadAntenna		Cable Preamp		Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level Factor	Cable Loss Factor	Preamp Factor			
1	1574.265	51.43	25.56	2.80	38.00	41.79	74.00	-32.21 VERTICAL Peak
2	4443.453	50.46	30.73	4.83	36.81	49.21	74.00	-24.79 VERTICAL Peak
3	4934.000	48.45	31.62	5.60	36.84	48.83	74.00	-25.17 VERTICAL Peak
4	5967.033	50.61	32.37	6.10	36.90	52.18	74.00	-21.82 VERTICAL Peak
5	7401.000	48.84	36.22	6.20	37.46	53.80	74.00	-20.20 VERTICAL Peak
6	9868.000	44.35	38.60	6.98	37.41	52.52	74.00	-21.48 VERTICAL Peak

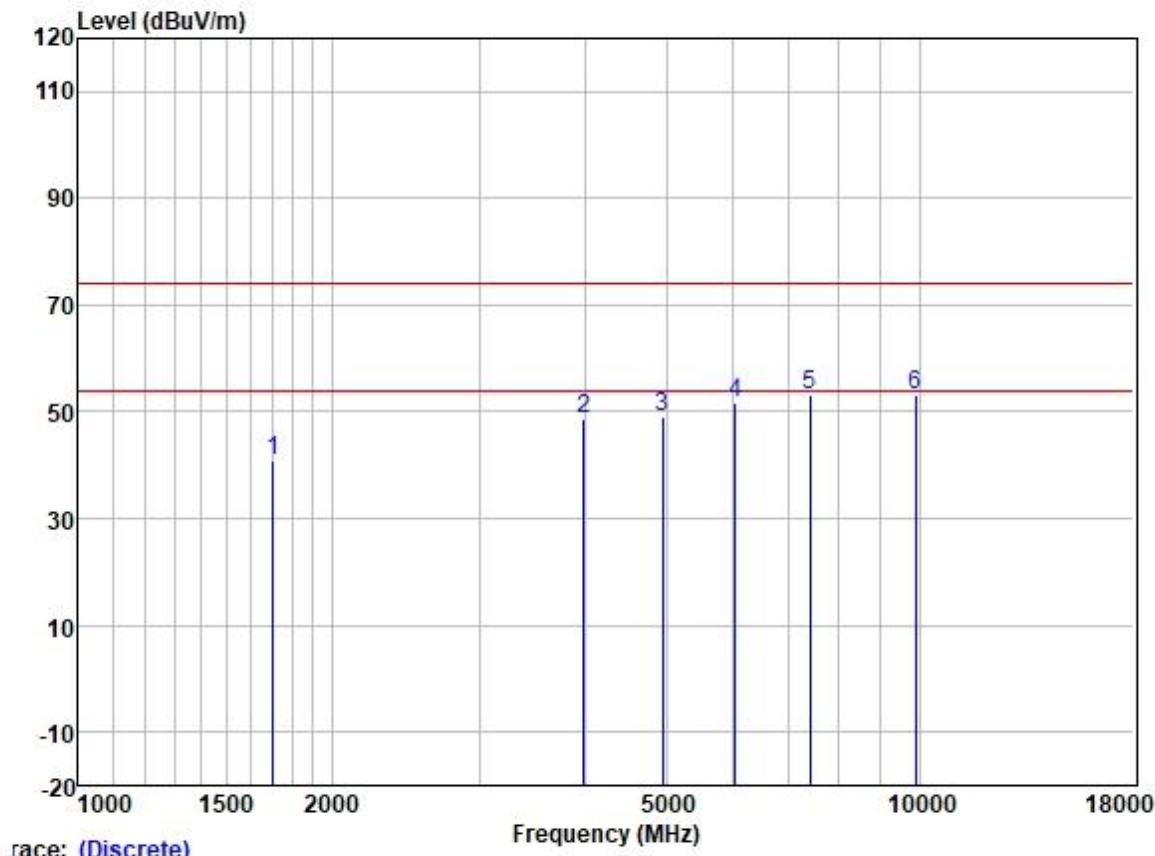
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11b; Bandwidth:20MHz; Channel:13



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	Level	Limit Line	Over Limit	Pol/Phase	Remark
	MHz	dBuV	Level Factor	dB						
1	1702.042	50.13	25.72	2.80	37.89	40.76	74.00	-33.24	HORIZONTAL	Peak
2	3992.781	51.23	29.79	4.60	36.80	48.82	74.00	-25.18	HORIZONTAL	Peak
3	4944.000	48.50	31.64	5.62	36.84	48.92	74.00	-25.08	HORIZONTAL	Peak
4	6036.421	49.83	32.48	6.18	36.90	51.59	74.00	-22.41	HORIZONTAL	Peak
5	7416.000	48.40	36.22	6.20	37.47	53.35	74.00	-20.65	HORIZONTAL	Peak
6	9888.000	44.89	38.63	6.97	37.41	53.08	74.00	-20.92	HORIZONTAL	Peak

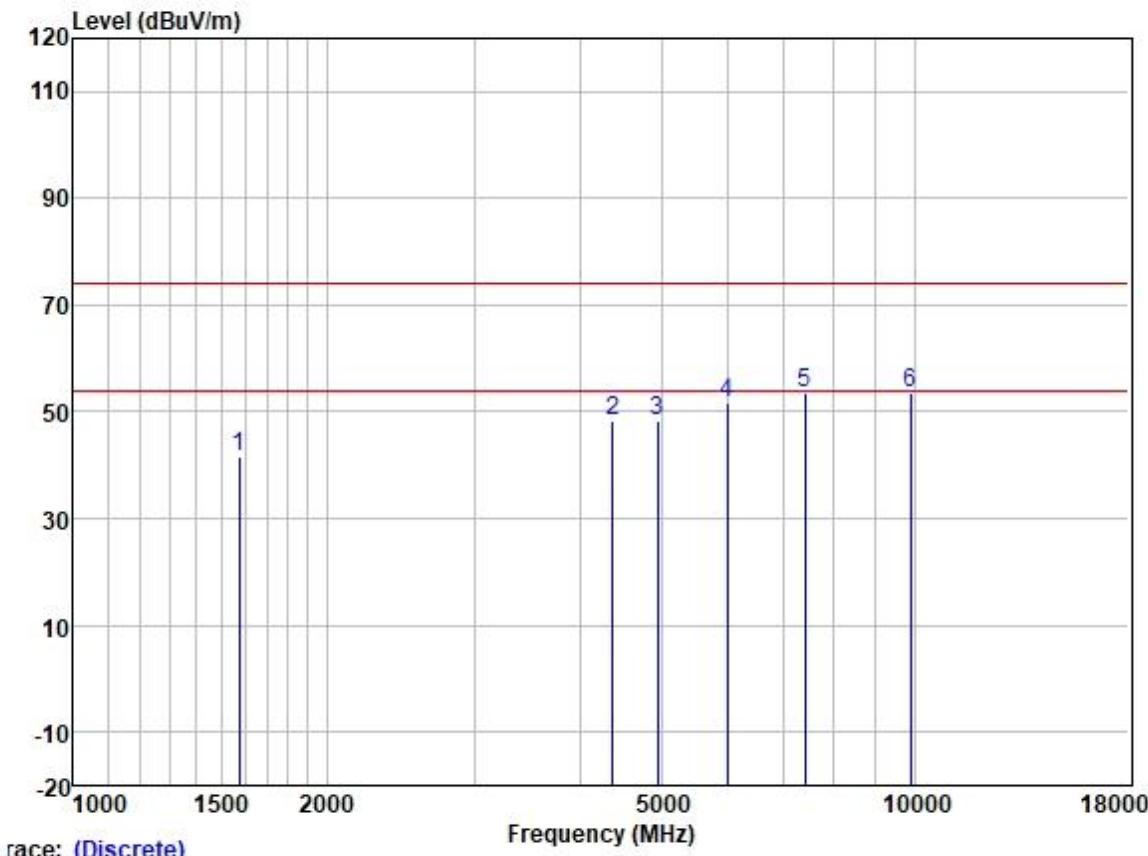
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Guangzhou Branch Testing Center for EEC Laboratory

Test Mode: 21; Polarity: Vertical; Modulation:802.11b; Bandwidth:20MHz; Channel:13



ReadAntenna	Cable	Preamp	Limit	Over	Limit Line			Pol/Phase	Remark		
					Freq	Level	Factor	Loss	Factor	Level	Line
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	dB	dB	dB	
1	1574.265	51.17	25.56	2.80	38.00	41.53	74.00	-32.47	VERTICAL	Peak	
2	4379.699	49.84	30.64	4.69	36.81	48.36	74.00	-25.64	VERTICAL	Peak	
3	4944.000	47.75	31.64	5.62	36.84	48.17	74.00	-25.83	VERTICAL	Peak	
4	5984.305	50.08	32.39	6.15	36.90	51.72	74.00	-22.28	VERTICAL	Peak	
5	7416.000	48.65	36.22	6.20	37.47	53.60	74.00	-20.40	VERTICAL	Peak	
6	9888.000	45.47	38.63	6.97	37.41	53.66	74.00	-20.34	VERTICAL	Peak	

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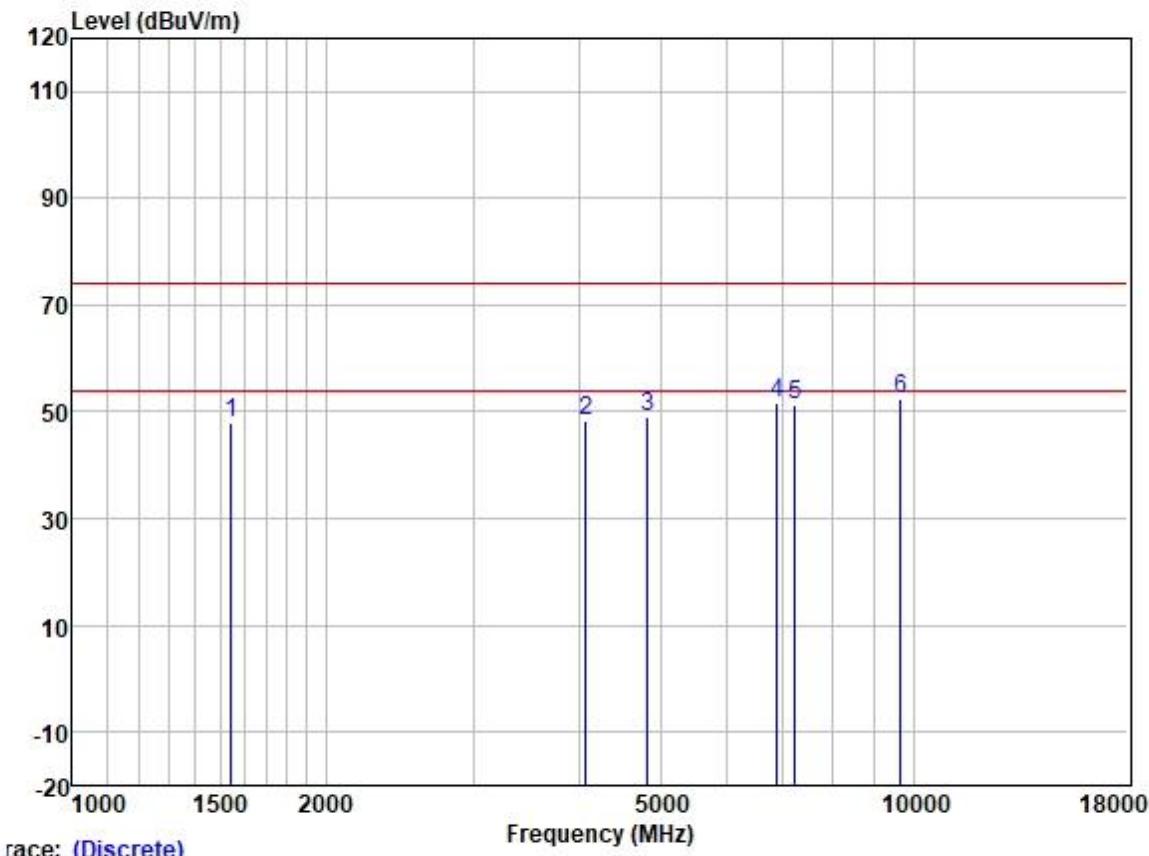
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Freq	ReadAntenna		Cable		Preamp		Limit	Over	Line	Limit	Pol/Phase	Remark
	MHz	dBuV	Level	Factor	Loss	Factor						
1	1542.733	57.73	25.53	2.80	38.03	48.03	74.00	-25.97	HORIZONTAL	Peak		
2	4074.388	50.56	29.90	4.60	36.80	48.26	74.00	-25.74	HORIZONTAL	Peak		
3	4824.000	49.19	31.45	5.42	36.83	49.23	74.00	-24.77	HORIZONTAL	Peak		
4	6874.906	48.17	34.82	5.82	37.16	51.65	74.00	-22.35	HORIZONTAL	Peak		
5	7236.000	46.87	35.70	6.03	37.39	51.21	74.00	-22.79	HORIZONTAL	Peak		
6	9648.000	44.49	38.40	7.06	37.42	52.53	74.00	-21.47	HORIZONTAL	Peak		

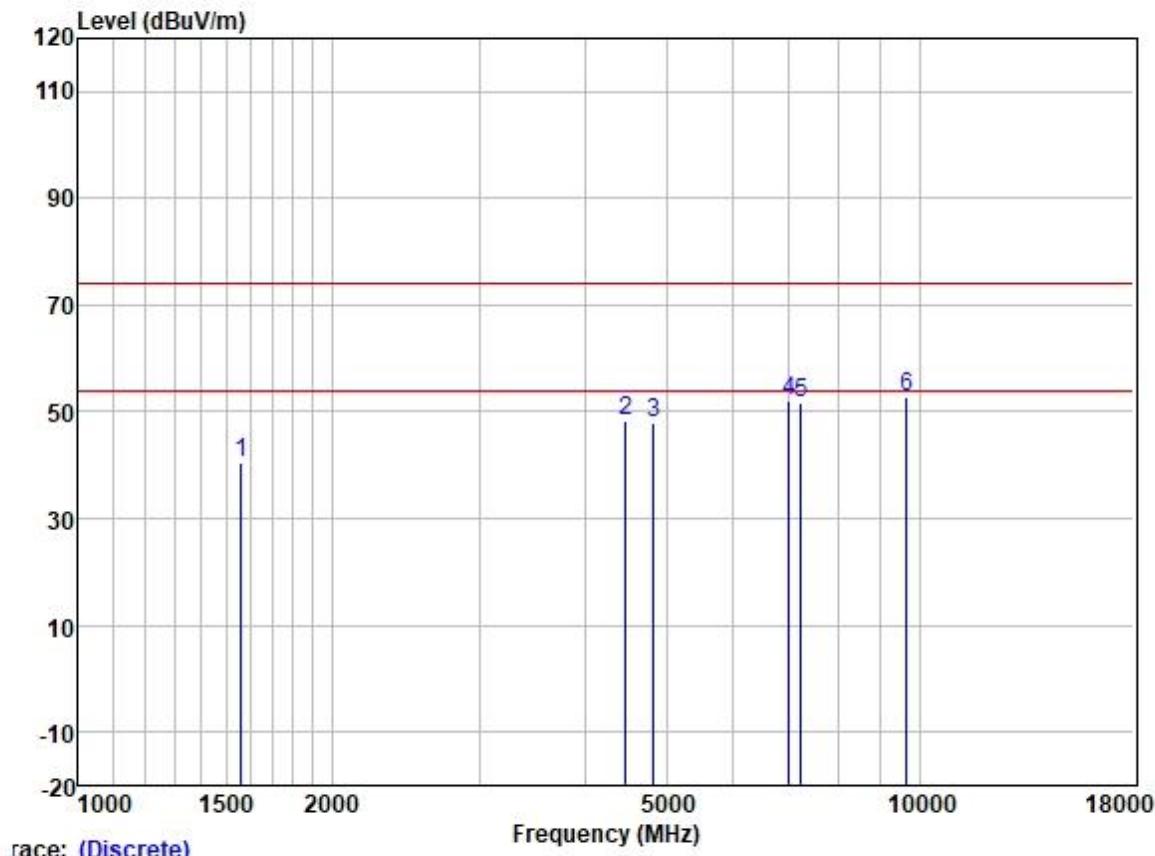
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Test Mode: 21; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:Low



Race:	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
		Level	Factor	Loss	Factor							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1560.673	50.24	25.54	2.80	38.03	40.55	74.00	-33.45	VERTICAL	Peak		
2	4469.214	49.39	30.77	4.93	36.81	48.28	74.00	-25.72	VERTICAL	Peak		
3	4824.000	47.86	31.45	5.42	36.83	47.90	74.00	-26.10	VERTICAL	Peak		
4	6995.172	48.42	35.00	5.81	37.25	51.98	74.00	-22.02	VERTICAL	Peak		
5	7236.000	47.18	35.70	6.03	37.39	51.52	74.00	-22.48	VERTICAL	Peak		
6	9648.000	44.94	38.40	7.06	37.42	52.98	74.00	-21.02	VERTICAL	Peak		

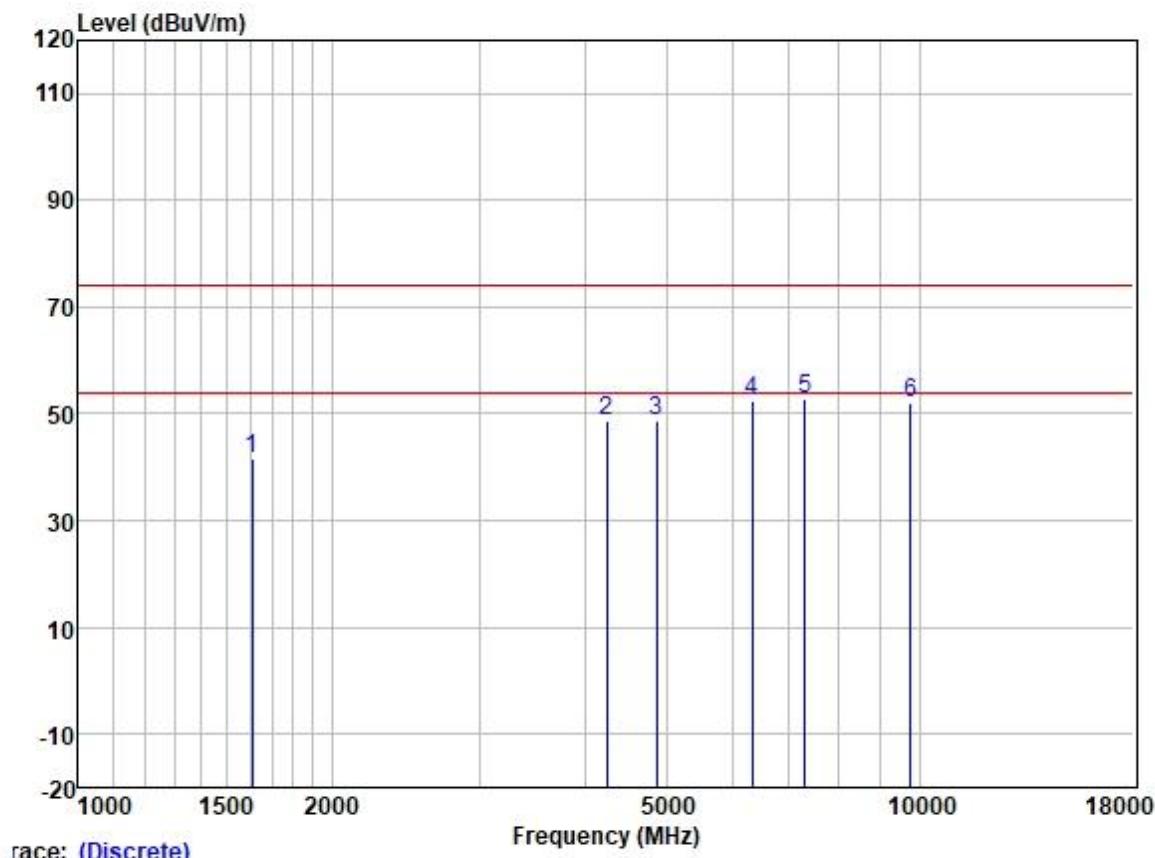
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Freq	ReadAntenna		Cable		Preamp Loss Factor	Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	dB/m	dB					
1	1611.091	51.15	25.59	2.80	37.98	41.56	74.00	-32.44	HORIZONTAL Peak
2	4242.641	50.56	30.30	4.62	36.81	48.67	74.00	-25.33	HORIZONTAL Peak
3	4874.000	48.34	31.54	5.50	36.84	48.54	74.00	-25.46	HORIZONTAL Peak
4	6322.136	49.95	33.51	5.95	36.97	52.44	74.00	-21.56	HORIZONTAL Peak
5	7311.000	48.32	35.93	6.11	37.42	52.94	74.00	-21.06	HORIZONTAL Peak
6	9748.000	43.94	38.50	7.02	37.41	52.05	74.00	-21.95	HORIZONTAL Peak

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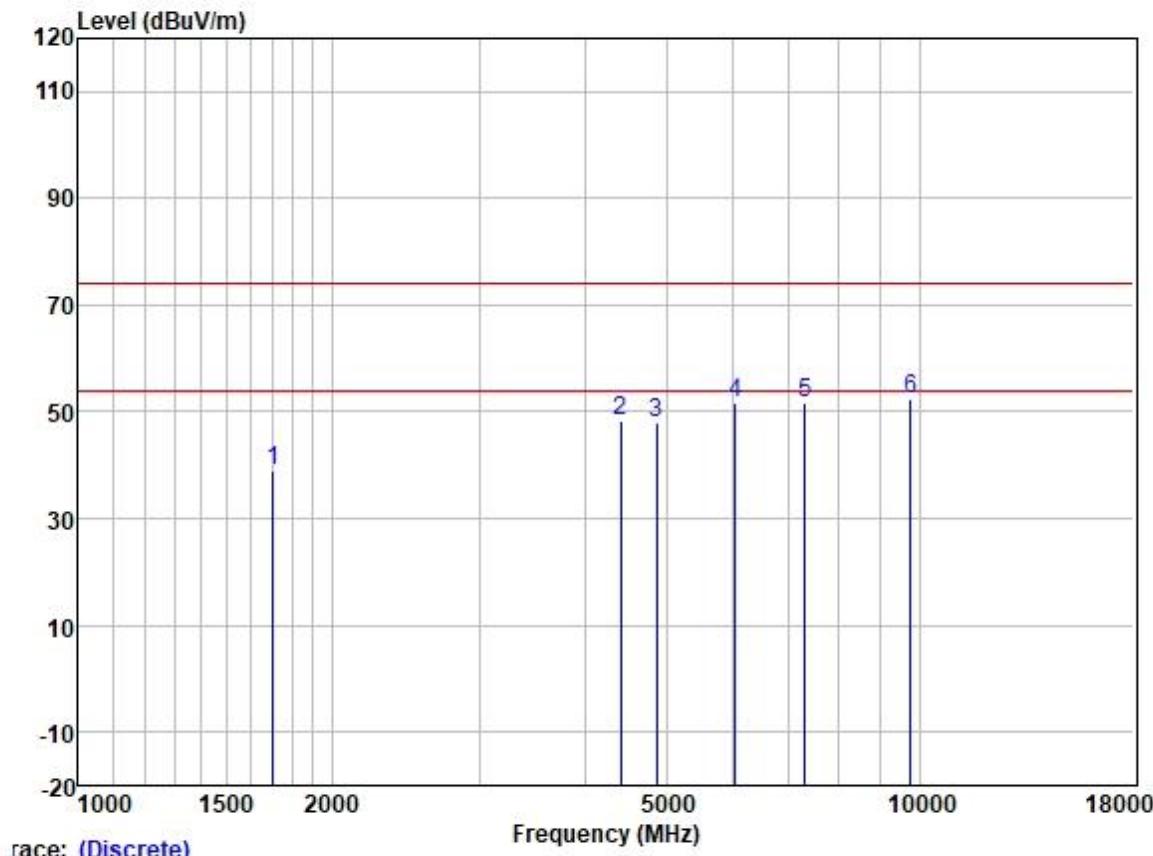


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Test Mode: 21; Polarity: Vertical; Modulation:802.11g; Bandwidth:20MHz; Channel:middle



Race:	Freq	ReadAntenna		Cable		Preamp	Limit	Over	Line	Limit	Pol/Phase	Remark
		Level	Factor	Loss	Factor							
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB				
1	1702.042	48.51	25.72	2.80	37.89	39.14	74.00	-34.86	VERTICAL	Peak		
2	4417.841	49.73	30.70	4.74	36.81	48.36	74.00	-25.64	VERTICAL	Peak		
3	4874.000	47.61	31.54	5.50	36.84	47.81	74.00	-26.19	VERTICAL	Peak		
4	6036.421	49.81	32.48	6.18	36.90	51.57	74.00	-22.43	VERTICAL	Peak		
5	7311.000	47.20	35.93	6.11	37.42	51.82	74.00	-22.18	VERTICAL	Peak		
6	9748.000	44.39	38.50	7.02	37.41	52.50	74.00	-21.50	VERTICAL	Peak		

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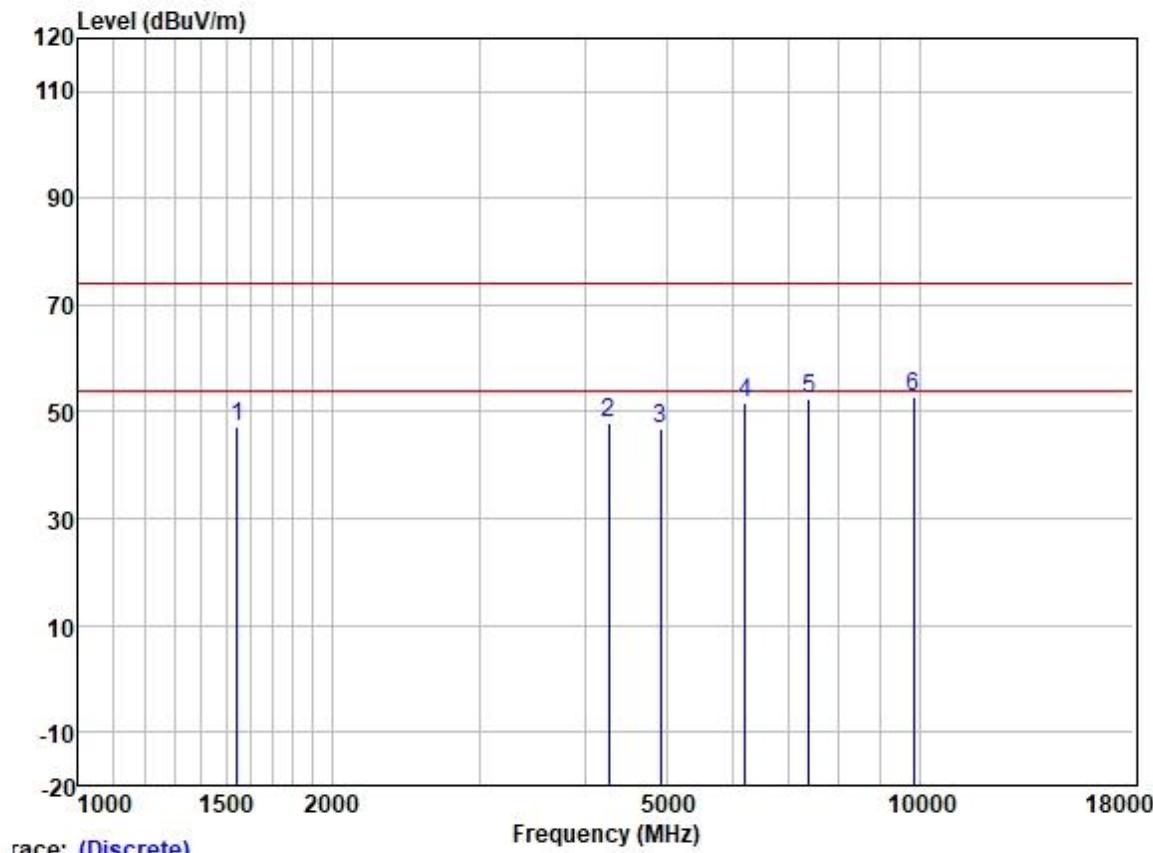
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Test Mode: 21; Polarity: Horizontal; Modulation:802.11g; Bandwidth:20MHz; Channel:11



Race: (Discrete)

Freq	ReadAntenna		Cable		Preamp Loss Factor	dB	dBuV/m	Limit Level	Over Line	Limit Pol/Phase	Remark
	MHz	dBuV	Level	Factor							
1	1542.733	56.94	25.53	2.80	38.03	47.24	74.00	-26.76	HORIZONTAL	Peak	
2	4267.237	49.72	30.38	4.63	36.81	47.92	74.00	-26.08	HORIZONTAL	Peak	
3	4924.000	46.50	31.62	5.60	36.84	46.88	74.00	-27.12	HORIZONTAL	Peak	
4	6213.441	49.51	33.03	6.06	36.94	51.66	74.00	-22.34	HORIZONTAL	Peak	
5	7386.000	47.36	36.17	6.19	37.45	52.27	74.00	-21.73	HORIZONTAL	Peak	
6	9848.000	44.64	38.58	6.99	37.41	52.80	74.00	-21.20	HORIZONTAL	Peak	

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