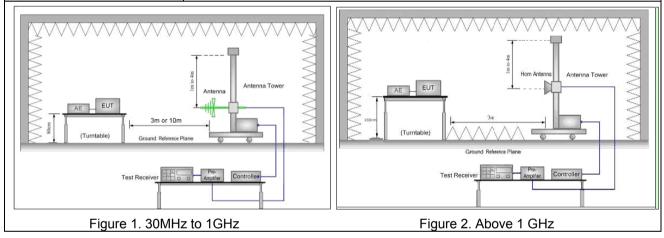


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5.10 Restricted bands around fundamental frequency

Test Requirement:	47 CFR Part 15C Section 1	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10: 2013 Section	ANSI C63.10: 2013 Section 11.12							
Test Site:	Measurement Distance: 3m	Measurement Distance: 3m or 10m (Semi-Anechoic Chamber)							
	Frequency	Limit (dBuV/m @3m)	Remark						
	30MHz-88MHz	40.0	Quasi-peak Value						
	88MHz-216MHz	43.5	Quasi-peak Value						
Limit:	216MHz-960MHz	46.0	Quasi-peak Value						
	960MHz-1GHz	54.0	Quasi-peak Value						
	Above 1GHz	54.0	Average Value						
	ADOVE IGHZ	74.0	Peak Value						

Test Setup:





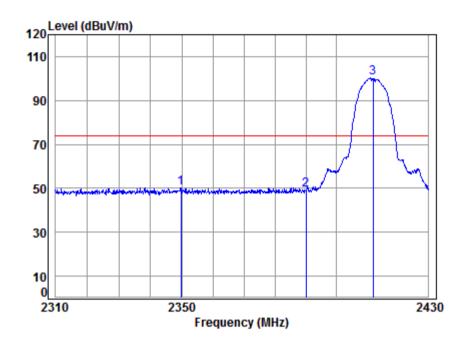
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	a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.					
	b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.					
	c. 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.					
Test Procedure:	d. 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.					
	e. 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.					
	 f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 					
	g. Place a marker at the end of the restricted band closest to the transfirequency to show compliance. Also measure any emissions in trestricted bands. Save the spectrum analyzer plot. Repeat for ear power and modulation for lowest and highest channel					
	h. Test the EUT in the lowest channel, the Highest channel					
	i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode,And found the X axis positioning which it is worse case.					
	j. Repeat above procedures until all frequencies measured was complete.					
Exploratory Test Mode:	Transmitting with all kind of modulations, data rates.					
Exploratory Test Mode:	Charge + Transmitting mode.					
	Pretest the EUT at Charge +Transmitting mode.					
	Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b;					
Final Test Mode:	6Mbps of rate is the worst case of 802.11g; 6.5Mbps of rate is the worst case of 802.11n(HT20); 13.5Mbps of rate is the worst case of 802.11n(HT40).					
	Only the worst case is recorded in the report.					
Instruments Used:	Refer to section 5.10 for details					
Test Results:	Pass					



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Test plot as follows	Test plot as follows:								
Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical			

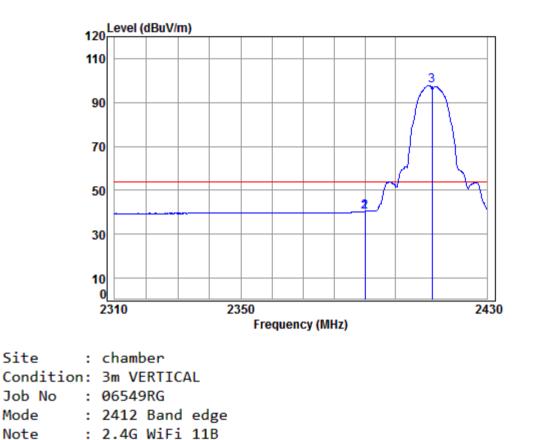


Job No Mode	tion: 3m V p : 0654 : 2412 : 2.40	VERTIC 49RG 2 Band 3 WiFi	edge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2349.763	5.42	28.45	41.86	58.38	50.39	74.00	-23.61	peak
2	2390.000	5.47	28.52	41.87	57.05	49.17	74.00	-24.83	peak
3 рр	2412.000	5.50	28.56	41.88	107.99	100.17	74.00	26.17	peak



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Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Vertical
					•	

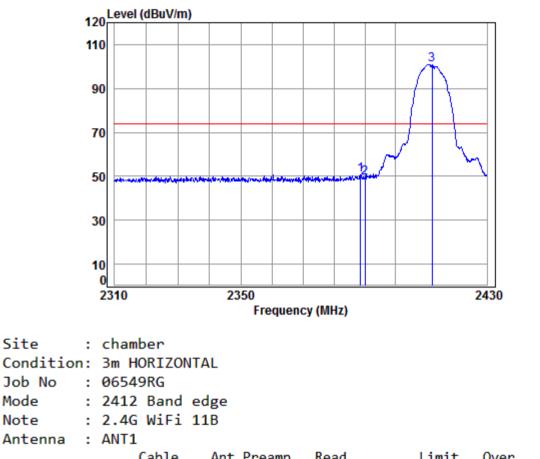


ark
rage
rage
rage



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Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal



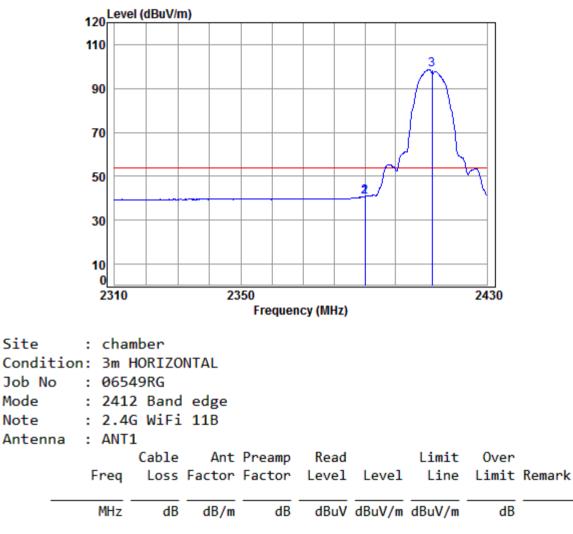
	Freq					Level				
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2388.516	5.47	28.52	41.87	58.71	50.83	74.00	-23.17	peak	
2	2390.000	5.47	28.52	41.87	57.03	49.15	74.00	-24.85	peak	
3 pp	2412.000	5.50	28.56	41.88	108.88	101.06	74.00	27.06	peak	

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Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Average	Horizontal



1	2389.968	5.47	28.52	41.87	48.64	40.76	54.00	-13.24 Average
2	2390.000	5.47	28.52	41.87	48.64	40.76	54.00	-13.24 Average
3 pp	2412.000	5.50	28.56	41.88	106.45	98.63	54.00	44.63 Average

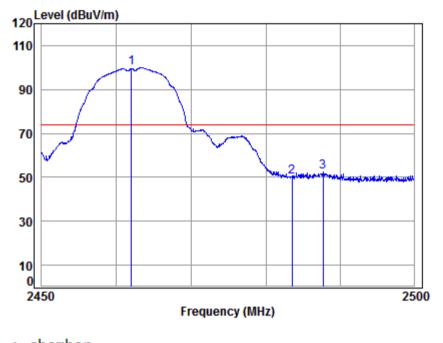


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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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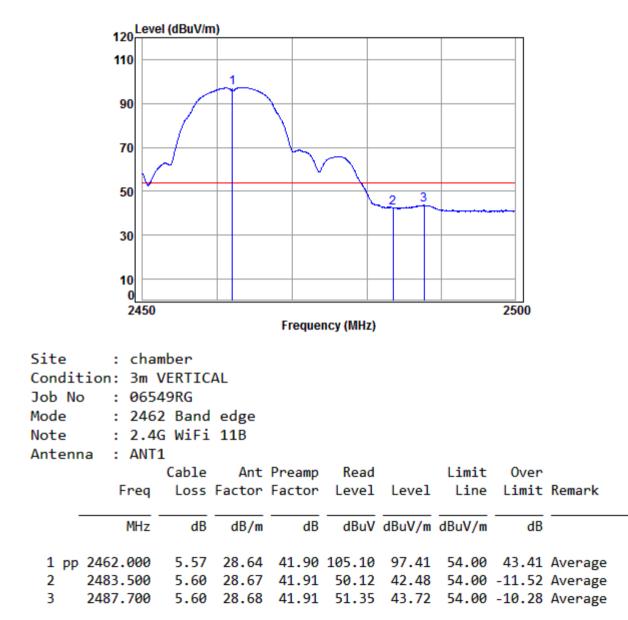


: char	nber								
Condition: 3m VERTICAL									
Job No : 06549RG									
: 2462	2 Band	edge							
Note : 2.4G WiFi 11B									
a : ANT:	1								
	Cable	Ant	Preamp	Read		Limit	0ver		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
2462.000		20.64	44 00	407 50	00.03	74.00	25 02		
2462.000	5.5/	28.64	41.90	107.52	99.83	74.00	25.83	реак	
2483.500	5.60	28.67	41.91	57.93	50.29	74.00	-23.71	peak	
2487.707	5.60	28.68	41.91	59.98	52.35	74.00	-21.65	peak	
	ion: 3m : 0654 : 2462 : 2.40 a : ANT: Freq MHz 2462.000 2483.500	: 06549RG : 2462 Band : 2.4G WiFi a : ANT1 Cable Freq Loss MHz dB 2462.000 5.57 2483.500 5.60	ion: 3m VERTICAL : 06549RG : 2462 Band edge : 2.4G WiFi 11B a : ANT1 Cable Ant Freq Loss Factor MHz dB dB/m 2462.000 5.57 28.64 2483.500 5.60 28.67	ion: 3m VERTICAL : 06549RG : 2462 Band edge : 2.4G WiFi 11B a : ANT1 Cable Ant Preamp Freq Loss Factor Factor MHz dB dB/m dB 2462.000 5.57 28.64 41.90 2483.500 5.60 28.67 41.91	ion: 3m VERTICAL : 06549RG : 2462 Band edge : 2.4G WiFi 11B a : ANT1 Cable Ant Preamp Read Freq Loss Factor Factor Level MHz dB dB/m dB dBuV 2462.000 5.57 28.64 41.90 107.52 2483.500 5.60 28.67 41.91 57.93	<pre>ion: 3m VERTICAL : 06549RG : 2462 Band edge : 2.4G WiFi 11B a : ANT1 Cable Ant Preamp Read Freq Loss Factor Factor Level Level MHz dB dB/m dB dBuV dBuV/m 2462.000 5.57 28.64 41.90 107.52 99.83 2483.500 5.60 28.67 41.91 57.93 50.29</pre>	ion: 3m VERTICAL : 06549RG : 2462 Band edge : 2.4G WiFi 11B a : ANT1 Cable Ant Preamp Read Limit Freq Loss Factor Factor Level Level Line MHz dB dB/m dB dBuV dBuV/m dBuV/m 2462.000 5.57 28.64 41.90 107.52 99.83 74.00 2483.500 5.60 28.67 41.91 57.93 50.29 74.00	<pre>ion: 3m VERTICAL : 06549RG : 2462 Band edge : 2.4G WiFi 11B a : ANT1 Cable Ant Preamp Read Limit Over Freq Loss Factor Factor Level Level Line Limit MHz dB dB/m dB dBuV dBuV/m dBuV/m dB 2462.000 5.57 28.64 41.90 107.52 99.83 74.00 25.83 2483.500 5.60 28.67 41.91 57.93 50.29 74.00 -23.71</pre>	



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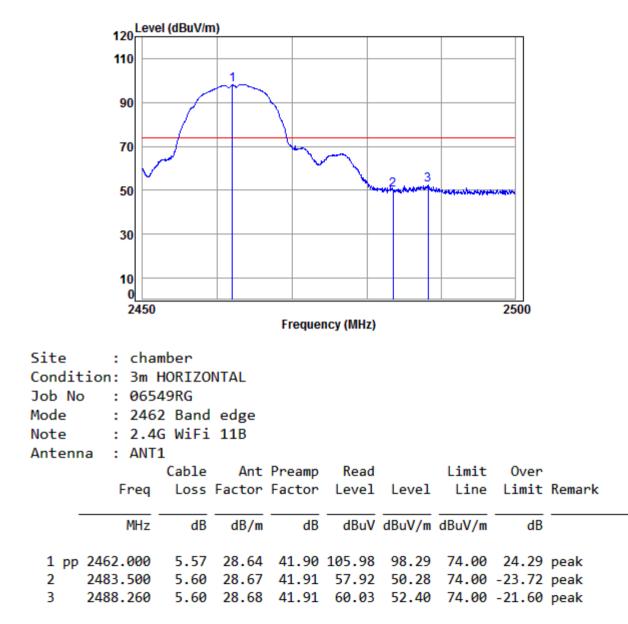
Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Vertical
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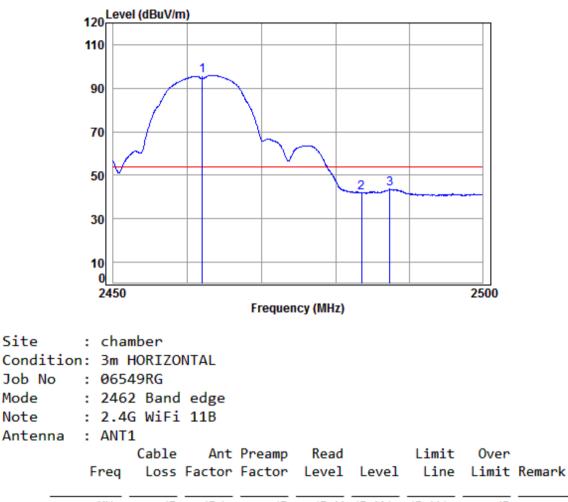
Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal





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Worse case mode:	802.11b	Test channel:	Highest	Remark:	Average	Horizontal
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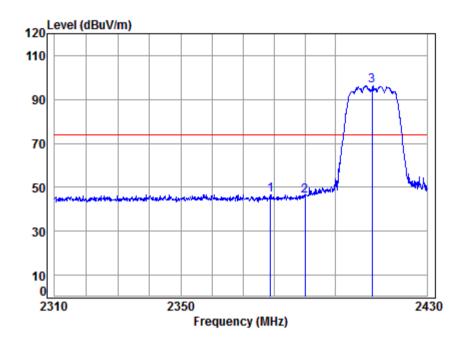


	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2462.000	5.57	28.64	41.90	103.72	96.03	54.00	42.03 Average	
2	2483.500	5.60	28.67	41.91	49.69	42.05	54.00	-11.95 Average	
3	2487.355	5.60	28.68	41.91	51.21	43.58	54.00	-10.42 Average	



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Worse case mode:	802.11g_CDD	Test channel:	Lowest	Remark:	Peak	Vertical
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Job No	Site : chamber Condition: 3m VERTICAL Job No : 06549RG Mode : 2412 Band edge									
Note	: 2.40	G WiFi	11G							
Antenr	na : CDD									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2378.859	5.46	28.50	41.87	54.54	46.63	74.00	-27.37	peak	
2	2390.000	5.47	28.52	41.87	53.90	46.02	74.00	-27.98	peak	
3 pp	2412.000	5.50	28.56	41.88	103.95	96.13	74.00	22.13	peak	

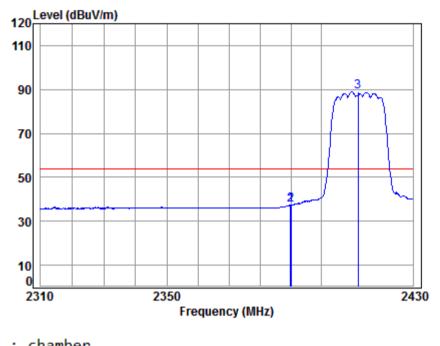


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Worse case mode:	802.11g_CDD	Test channel:	Lowest	Remark:	Average	Vertical
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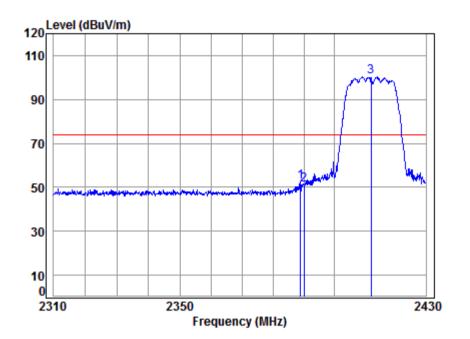


Site	: char	nber								
Condition: 3m VERTICAL										
Job No : 06549RG										
Mode : 2412 Band edge										
Note	: 2.40	G WiFi	11G							
Anten	na : CDD									
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
4	2200 047	F 47	20 52	44 07	45 44	27.26	F4 00	46 74	A	
1	2389.847	5.47							Average	
2	2390.000	5.47	28.52	41.87	45.14	37.26	54.00	-16.74	Average	
3 pp	2412.000	5.50	28.56	41.88	96.66	88.84	54.00	34.84	Average	



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Worse case mode: 802	2.11g_CDD Test channel:	Lowest	Remark:	Peak	Horizontal
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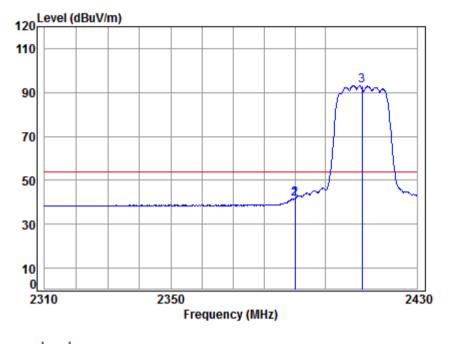


Job No Mode	: 2412 : 2.40	HORIZO 49RG 2 Band	edge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.879	5.47				52.53			
2	2390.000	5.47				51.02			
3 рр	2412.000	5.50	28.56	41.88	108.38	100.56	74.00	26.56	реак



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Worse case mode:	802.11g_CDD	Test channel:	Lowest	Remark:	Average	Horizontal
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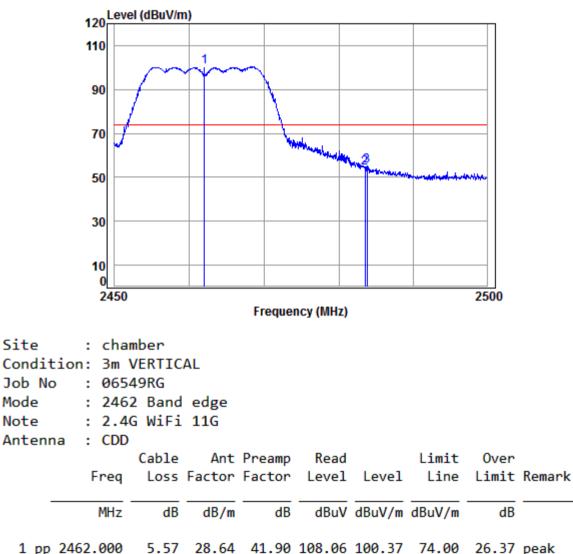


Job No Mode	: 241 : 2.4	HORIZO 49RG 2 Band	edge						
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	28.52	41.87	49.45	41.57	54.00	-12.43	Average
2	2390.000	5.47	28.52	41.87	49.45	41.57	54.00	-12.43	Average
3 рр	2412.000	5.50	28.56	41.88	100.79	92.97	54.00	38.97	Average



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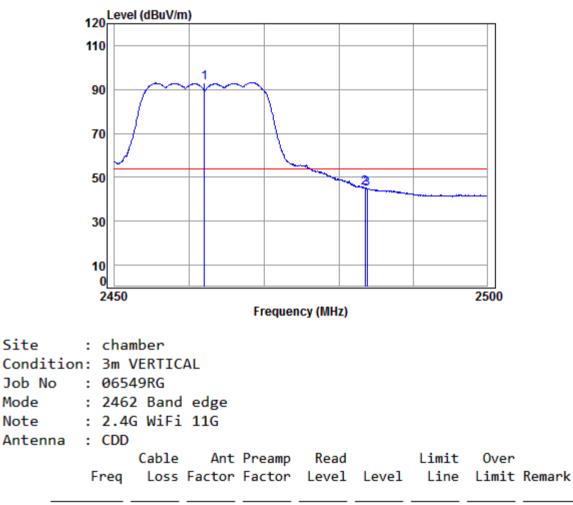
Worse case mode: 802.11g_CDD	Test channel:	Highest	Remark:	Peak	Vertical
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1 pp	2462.000	5.57	28.64	41.90	108.06	100.37	74.00	26.37 peak
2	2483.500	5.60	28.67	41.91	61.97	54.33	74.00	-19.67 peak
3	2483.790	5.60	28.67	41.91	62.87	55.23	74.00	-18.77 peak



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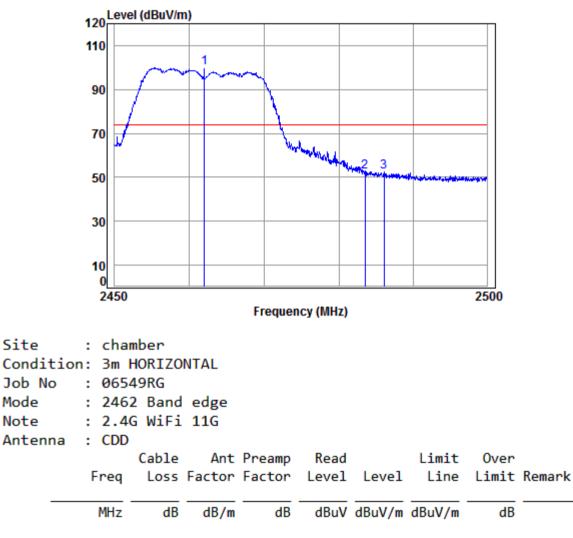


	MHz	dB	dB/m	dB	dBuV o	dBuV/m	dBuV/m	dB	
1 pp 2462	.000 5	.57 2	8.64 4	1.90 1	00.81	93.12	54.00	39.12	Average
2 2483	.500 5	.60 2	8.67 42	1.91	52.88	45.24	54.00	-8.76	Average
3 2483	.790 5	.60 2	8.67 42	1.91	52.49	44.85	54.00	-9.15	Average



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Worse case mode: 802.11g_CD	Test channel:	Highest	Remark:	Peak	Horizontal
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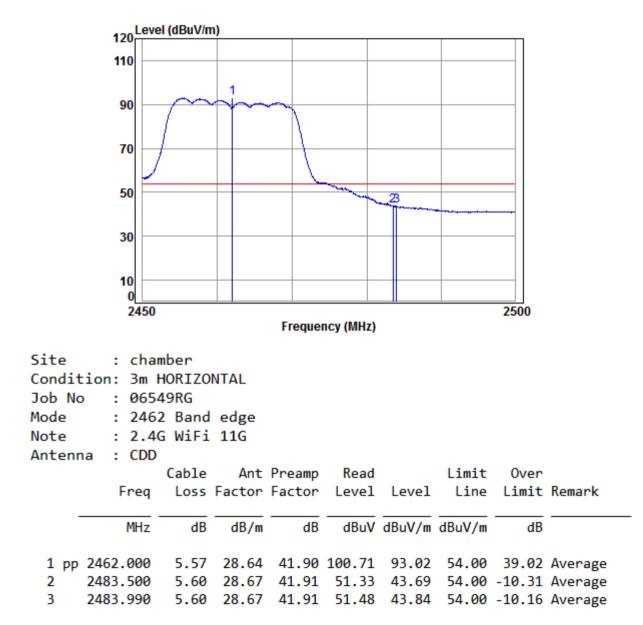


1 pp	2462.000	5.57	28.64	41.90	107.48	99.79	74.00	25.79 peak
2	2483.500	5.60	28.67	41.91	60.30	52.66	74.00	-21.34 peak
3	2486.099	5.60	28.68	41.91	60.10	52.47	74.00	-21.53 peak



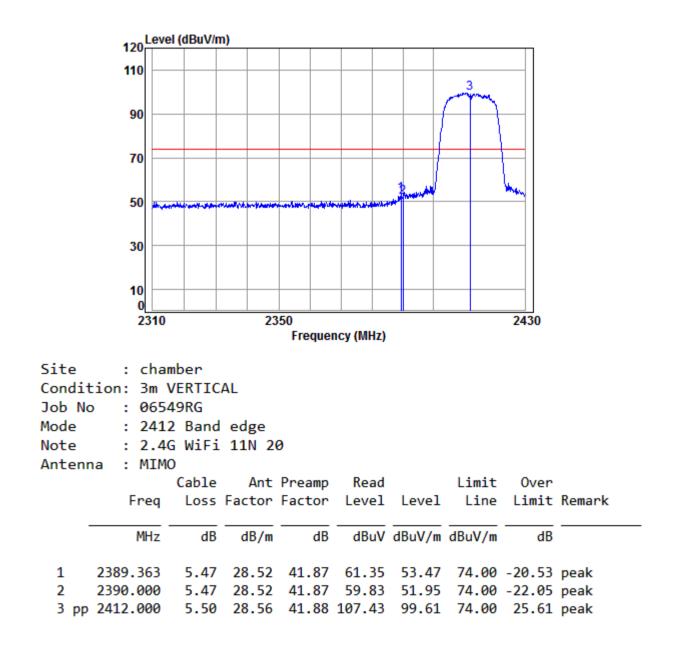
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Worse case mode: 802.11g_CDE	Test channel:	Highest	Remark:	Average	Horizontal
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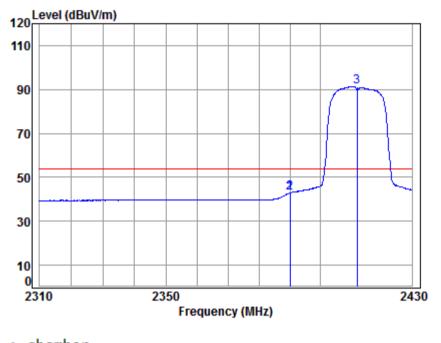


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Worse case mode:	802.11n(HT20) _MIMO	Test channel:	Lowest	Remark:	Average	Vertical
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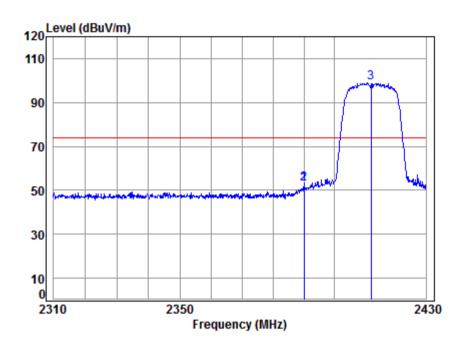


Site	: chai	nber								
Condit	tion: 3m \	VERTIC	AL							
Job No	b : 0654	49RG								
Mode	: 241	2 Band	edge							
Note	: 2.40	G WiFi	11N 20	0						
Antenr	na : MIMO	D								
		Cable	Ant	Preamp	Read		Limit	0ver		
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB		
1	2389.968	5.47							Average	
-	2390.000 2412.000	5.47 5.50							Average Average	



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Worse case mode:	802.11n(HT20) _MIMO	Test channel:	Lowest	Remark:	Peak	Horizontal	
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Site	: char	nber							
Condi	tion: 3m H	HORIZO	NTAL						
Job No	o : 0654	49RG							
Mode	: 2412	2 Band	edge						
Note	: 2.40	G WiFi	11N 20	0					
Anten	na : MIMO	0							
		Cable		Preamp			Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2280 068	5 A7	20 52	/1 27	60 00	52 02	74 00	20 02	nook
1	2389.968	5.47		41.87					•
2	2389.968 2390.000 2412.000	5.47	28.52	41.87	60.90	53.02 53.02 98.92	74.00	-20.98	peak

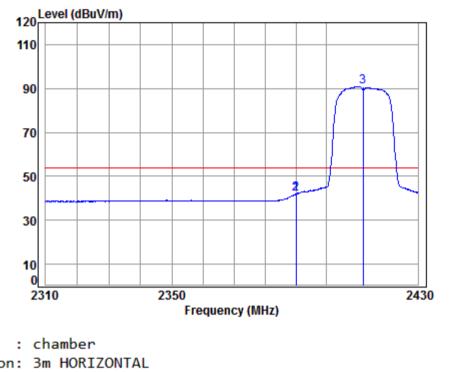


Site

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Worse case mode: 802.11n(HT20) _MIMO	Test channel:	Lowest	Remark:	Average	Horizontal
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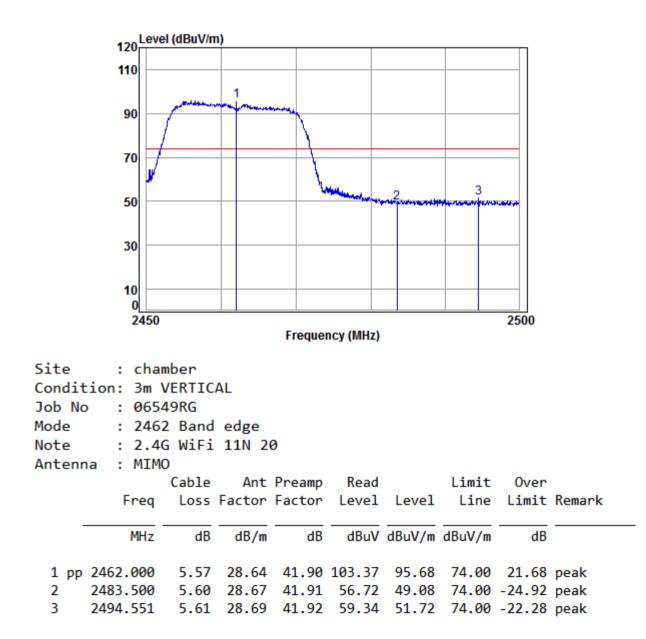


SILE	. Chai	liber							
Condit	tion: 3m H	HORIZO	NTAL						
Job No	o : 0654	49RG							
Mode	: 2412	2 Band	edge						
Note	: 2.40	G WiFi	11N 20	0					
Antenr	na : MIMO	0							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.968	5.47	28.52	41.87	49.73	41.85	54.00	-12.15	Average
2	2390.000	5.47	28.52	41.87	49.73	41.85	54.00	-12.15	Average
3 pp	2412.000	5.50	28.56	41.88	98.81	90.99	54.00	36.99	Average



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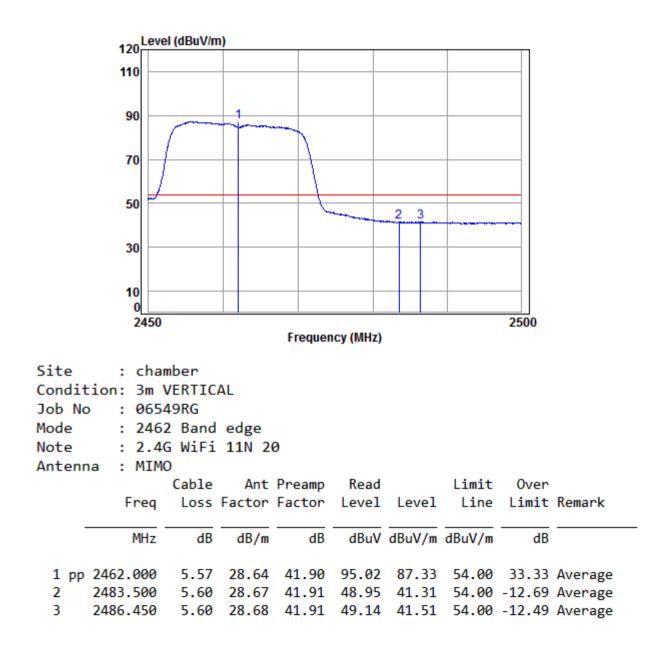
Worse case mode: 802.11n(HT20) _MIMO	Test channel:	Highest	Remark:	Peak	Vertical
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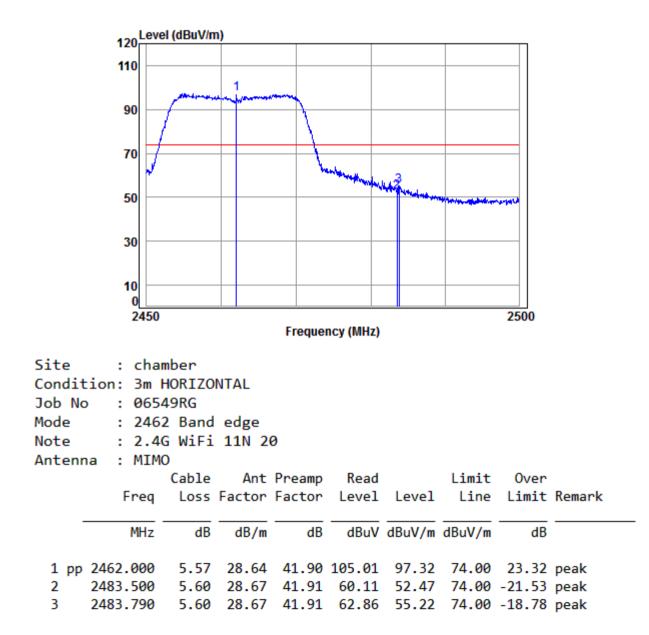
Worse case mode: 802.11n(HT20) _MIMO	Test channel:	Highest	Remark:	Average	Vertical
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Worse case mode: 802.11n(H MIMO	T20) Test channel:	Highest	Remark:	Peak	Horizontal
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Worse case mode:	802.11n(HT20) _MIMO	Test channel:	Highest	Remark:	Average	Horizontal	
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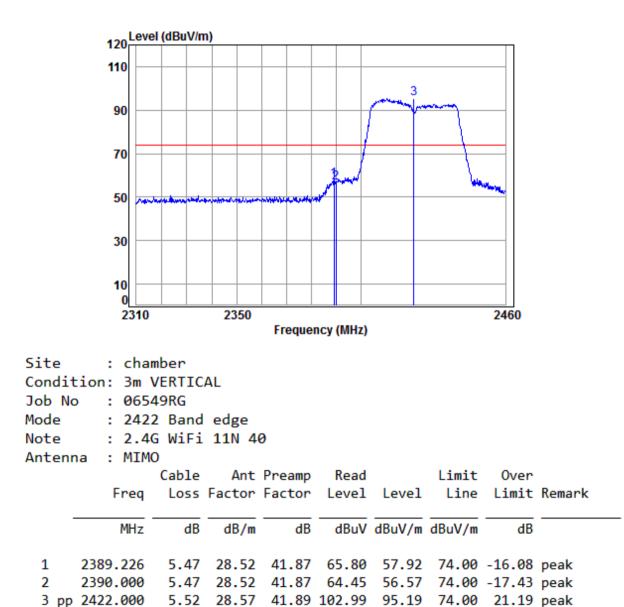


1 pp	2462.000	5.57	28.64	41.90	96.03	88.34	54.00	34.34 Average
2	2483.500	5.60	28.67	41.91	51.25	43.61	54.00	-10.39 Average
3	2484.041	5.60	28.67	41.91	51.04	43.40	54.00	-10.60 Average



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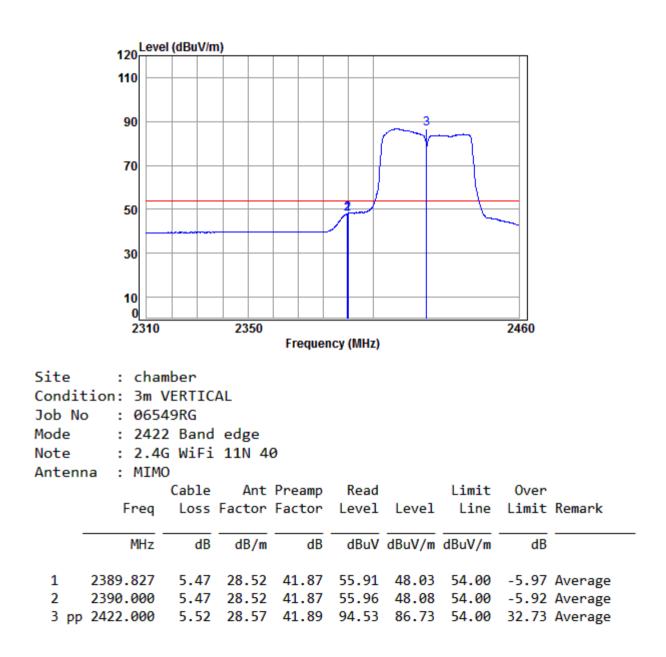
Worse case mode:	802.11n(HT40) _MIMO	Test channel:	Lowest	Remark:	Peak	Vertical
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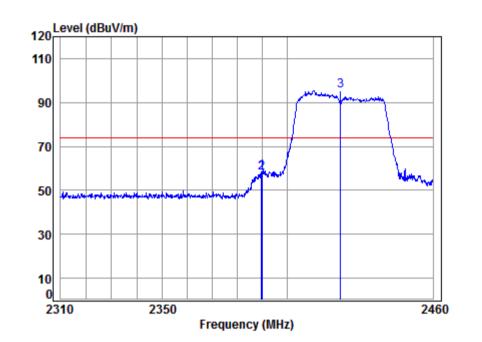
Worse case mode:	802.11n(HT40) _MIMO	Test channel:	Lowest	Remark:	Average	Vertical





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Worse case mode: 802.11n(HT40) _MIMO	Test channel:	Lowest	Remark:	Peak	Horizontal
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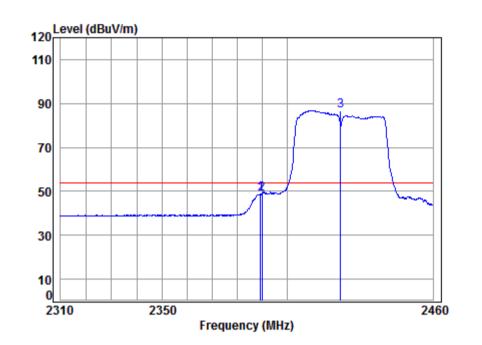


Site	: char	nber							
Condit	tion: 3m H	HORIZO	NTAL						
Job No	b : 0654	49RG							
Mode	: 2422	2 Band	edge						
Note	: 2.40	G WiFi	11N 4	0					
Antenr	na : MIMO	D							
		Cable		Preamp			Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.827	5.47	28 22	11 87	66.27	58 30	71 00	15 61	poak
2	2390.000	5.47			65.93				
-	2422.000								•
2 44 6	2422.000	5.52	20.57	41.05	105.15	55.55	74.00	21.39	hear



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Worse case mode: 802.11n(HT40) _MIMO	Test channel:	Lowest	Remark:	Average	Horizontal
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Site	: char	nber									
Condition: 3m HORIZONTAL											
Job No	b : 0654	19RG									
Mode	: 2422	2 Band	edge								
Note	: 2.40	G WiFi	11N 40	9							
Antenr	na : MIMO)									
		Cable	Ant	Preamp	Read		Limit	0ver			
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark		
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB			
1	2389.376	5.47	28.52	41.87	56.84	18 06	54.00	5 04	Avanaga		
2									Average Average		
	2390.000 2422.000	5.47	28.52 28.57						Average		

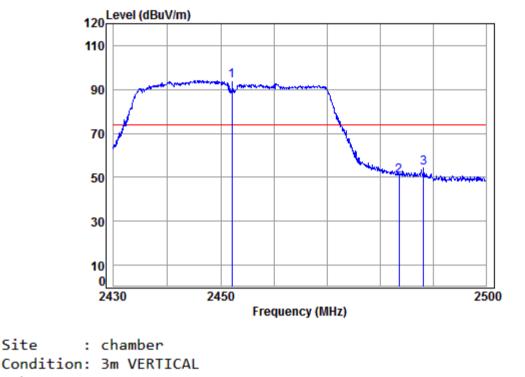


Site

SGS-CSTC Standards Technical Services Co., Ltd. **Shenzhen Branch**

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Worse case mode: 802.11n(HT40) _MIMO	Test channel:	Highest	Remark:	Peak	Vertical
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Condi	CION: SM	VENTIC	AL						
Job No	o : 0654	49RG							
Mode	: 2452	2 Band	edge						
Note	: 2.40	G WiFi	11N 4	0					
Anten	na : MIMO	D							
		Cable	Ant	Preamp	Read		Limit	0ver	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	5.56	28.62	41.90	101.79	94.07	74.00	20.07	peak
2	2483.500	5.60	28.67	41.91	58.37	50.73	74.00	-23.27	peak
3	2488.171	5.60	28.68	41.91	62.12	54.49	74.00	-19.51	peak



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Worse case mode: 802.11n(HT40) _MIMO	Test channel:	Highest	Remark:	Average	Vertical
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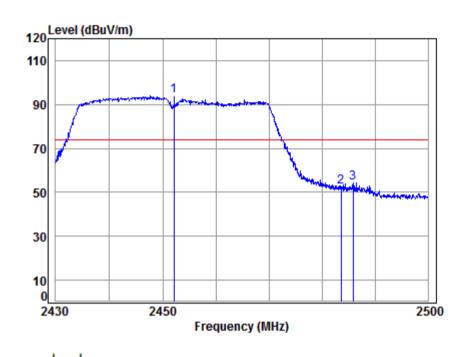


1 pp	2452.000	5.56	28.62	41.90	93.48	85.76	54.00	31.76 Average
2	2483.500	5.60	28.67	41.91	50.01	42.37	54.00	-11.63 Average
3	2484.076	5.60	28.67	41.91	50.08	42.44	54.00	-11.56 Average



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Worse case mode:	802.11n(HT40)_MIMO	Test channel:	Highest	Remark:	Peak	Horizontal
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Mode : Note :	3m HORIZO 06549RG 2452 Band	edge	0					
	Cable	Ant	Preamp	Read		Limit	0ver	
Fi	req Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2452.0 2 2483.9 3 2485.7	500 5.60	28.67	41.91	60.19	94.20 52.55 54.26	74.00	-21.45	peak

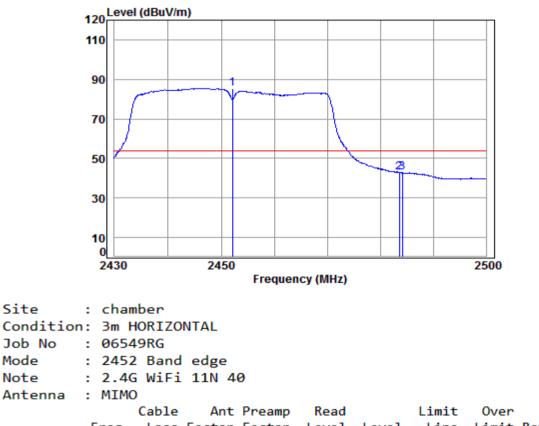


Site

SGS-CSTC Standards Technical Services Co., Ltd. **Shenzhen Branch**

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Worse case mode: 802.11n(HT40) _MIMO	Test channel:	Highest	Remark:	Average	Horizontal
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	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp	2452.000	5.56	28.62	41.90	93.23	85.51	54.00	31.51	Average
2	2483.500	5.60	28.67	41.91	50.48	42.84	54.00	-11.16	Average
3	2484.076	5.60	28.67	41.91	50.53	42.89	54.00	-11.11	Average

Note:

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

All Modes have been tested, but only the worst case data displayed in this report.



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6 Photographs - EUT Constructional Details

Refer to Appendix A - Photographs of EUT Constructional Details for SZEM1807006549RG.

The End