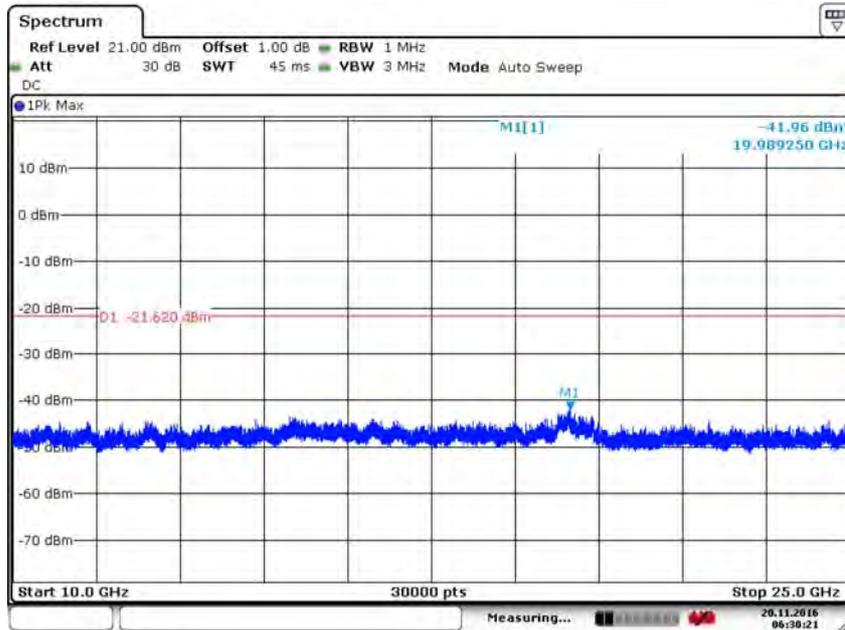


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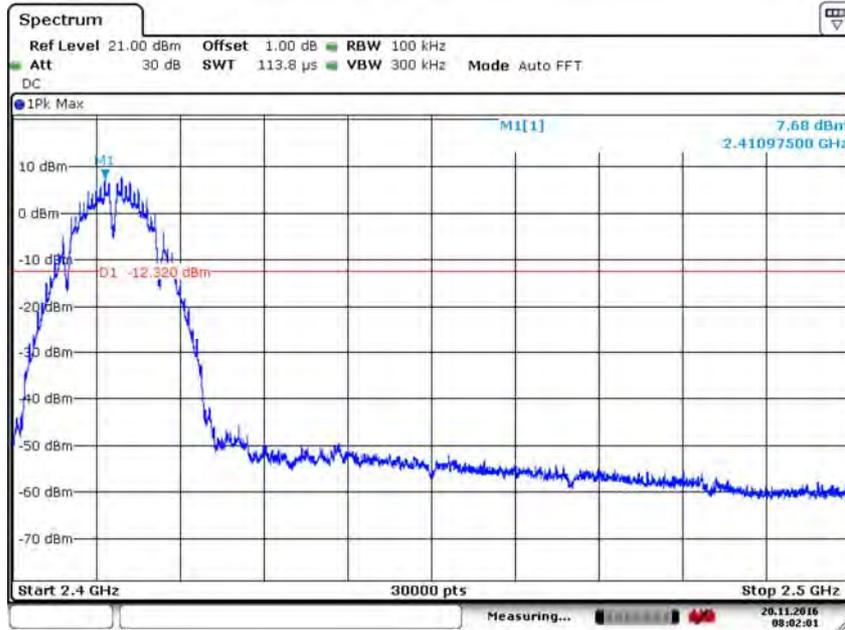


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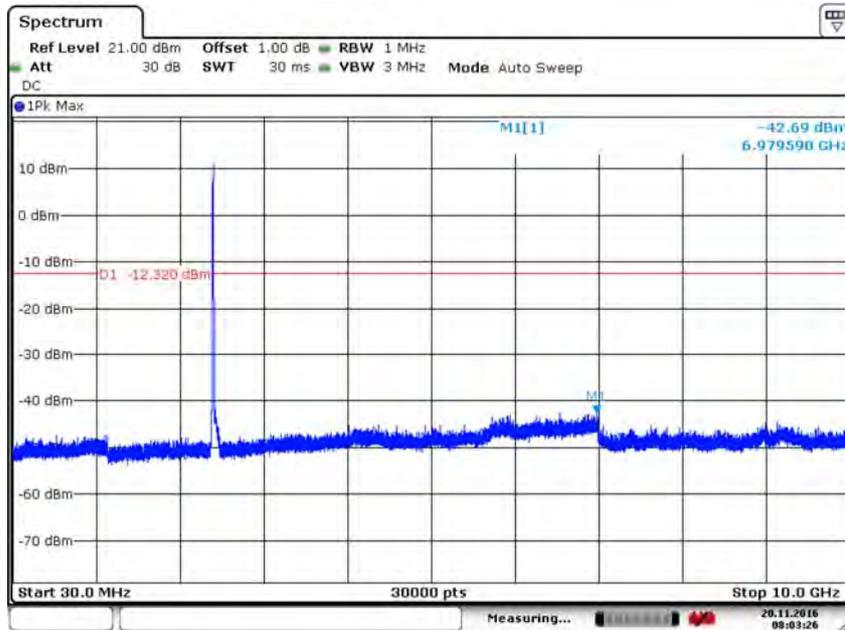


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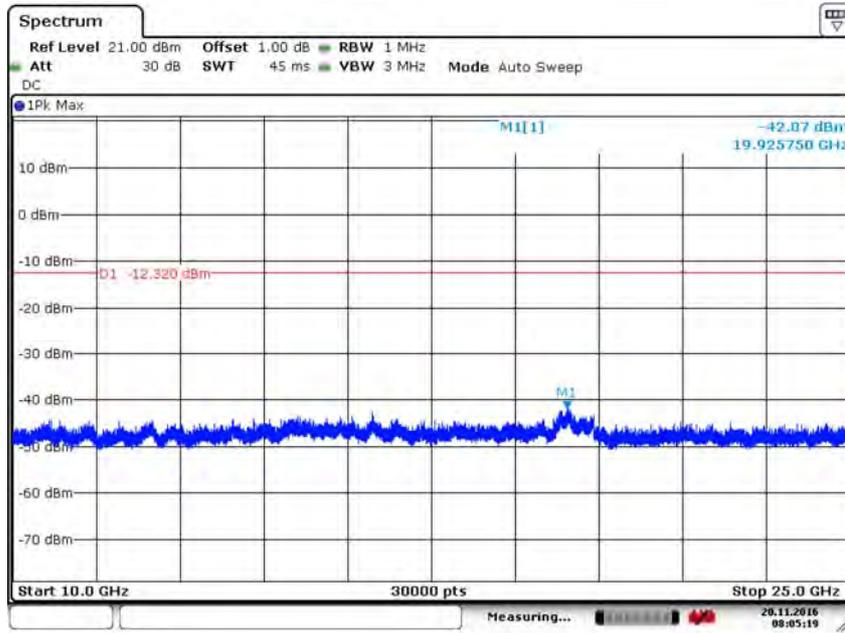
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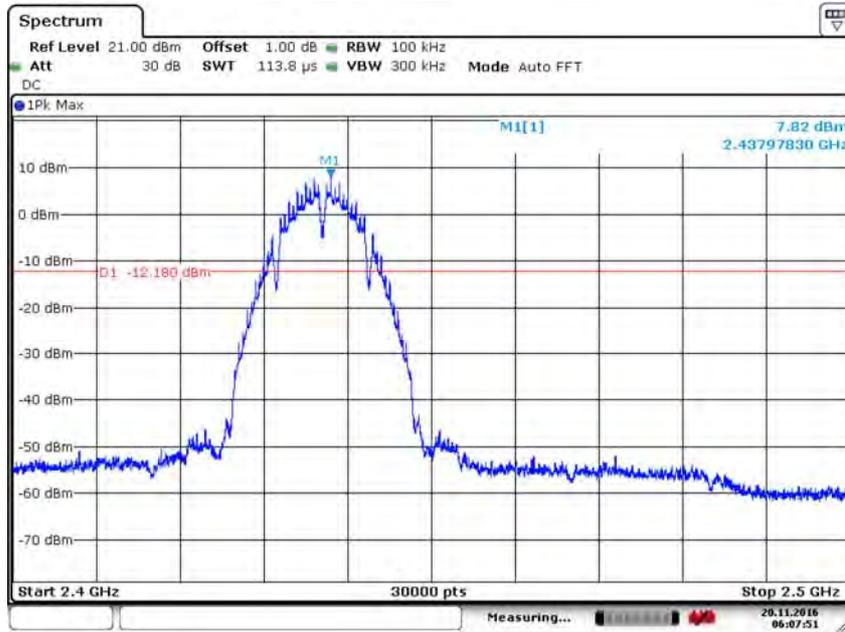


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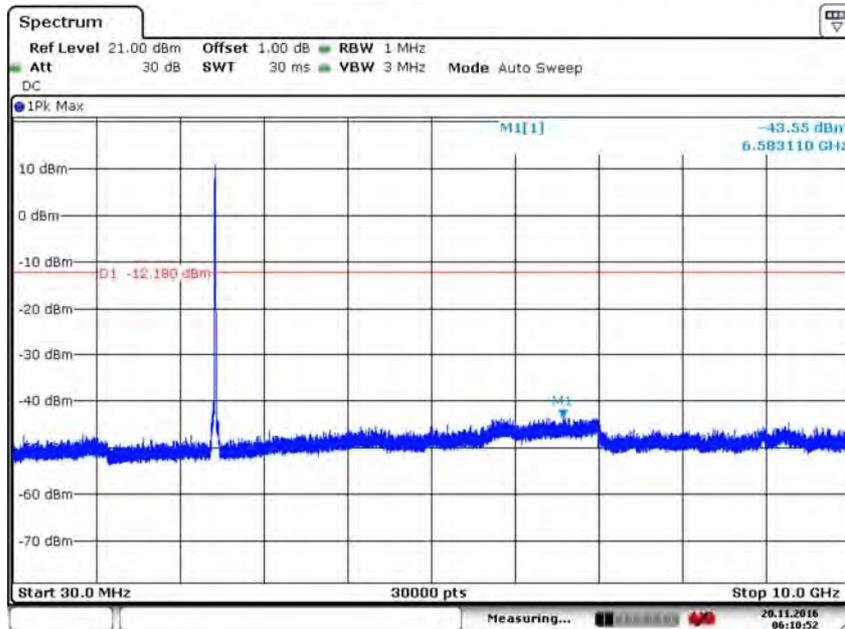


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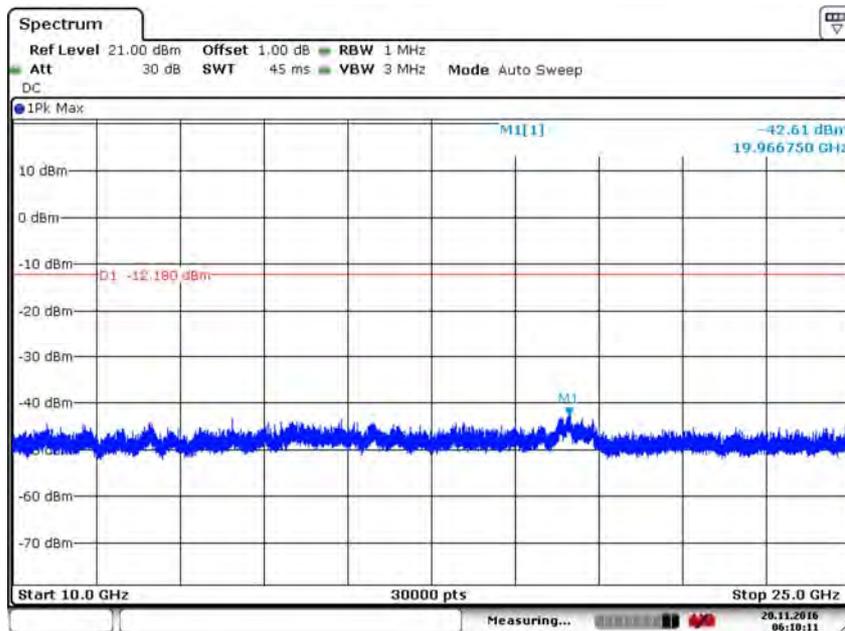
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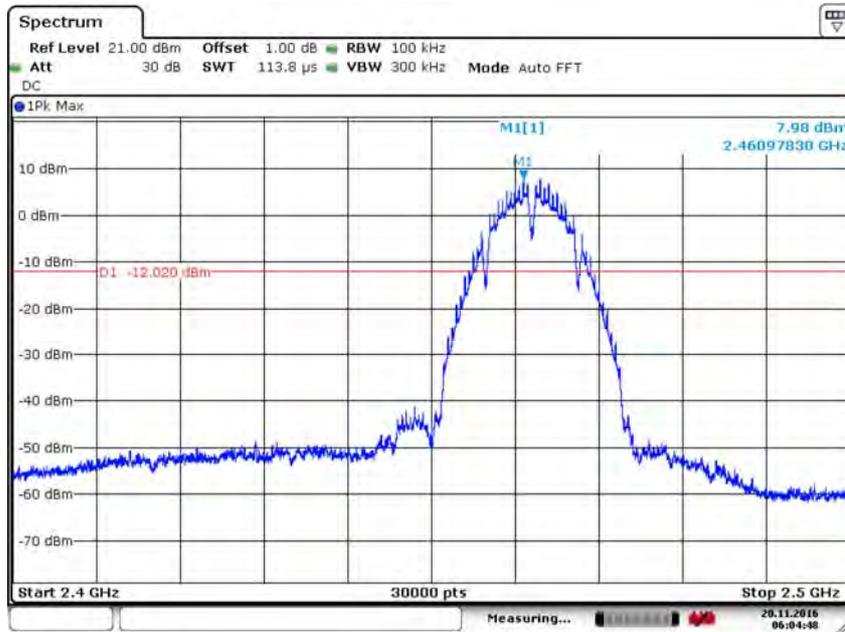


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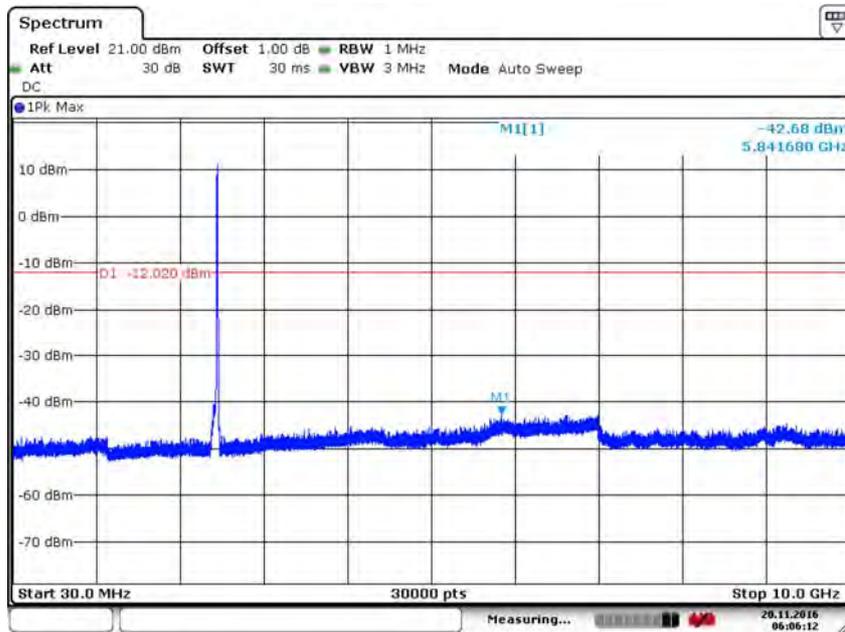
Report No.: SZEM161000852203

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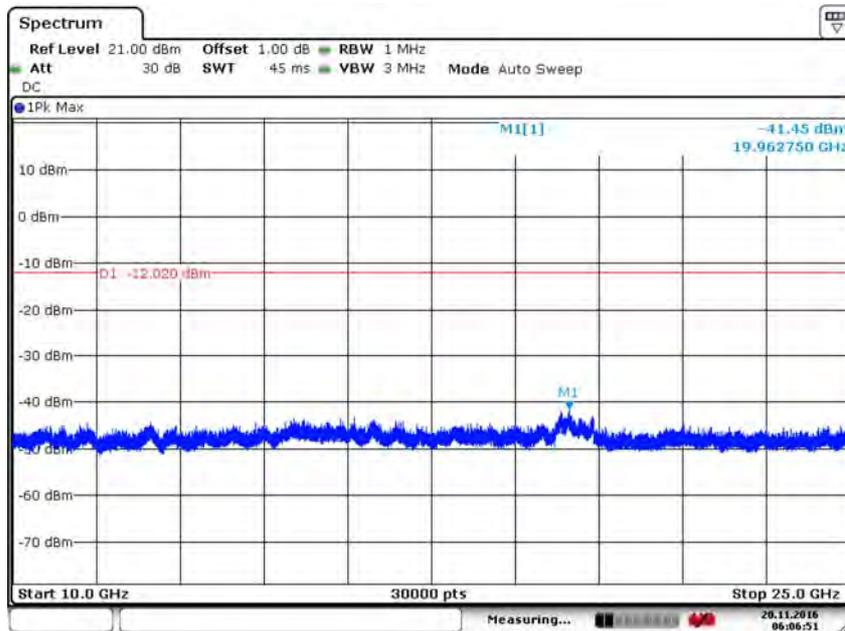
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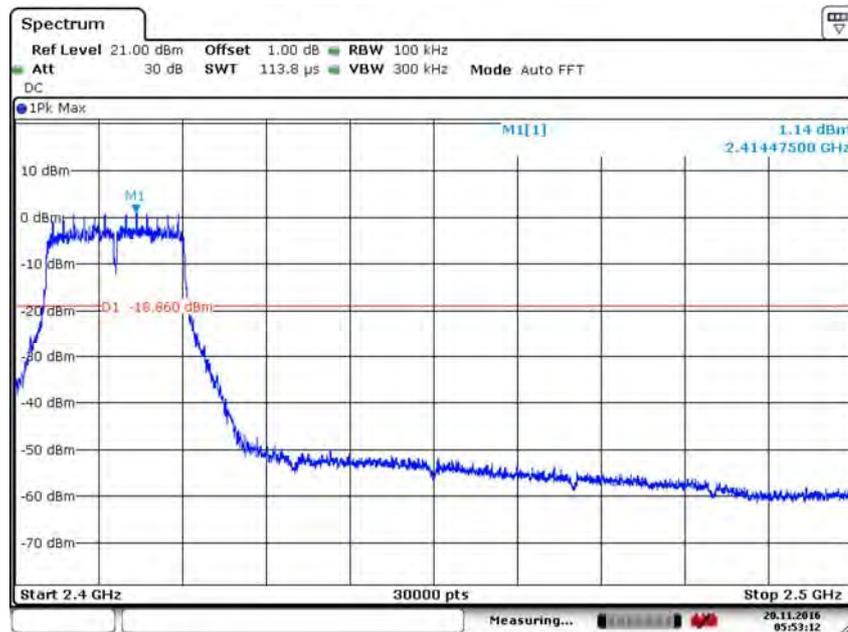


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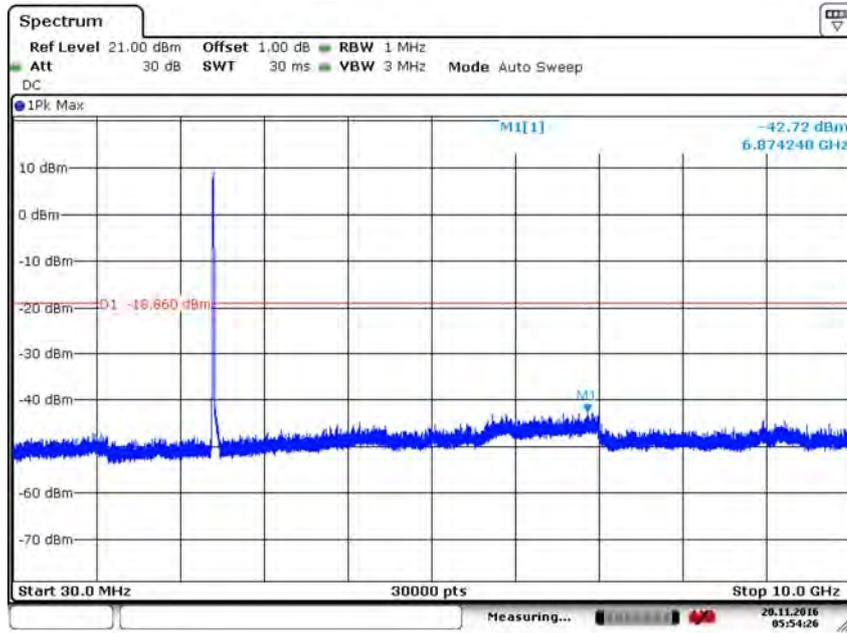


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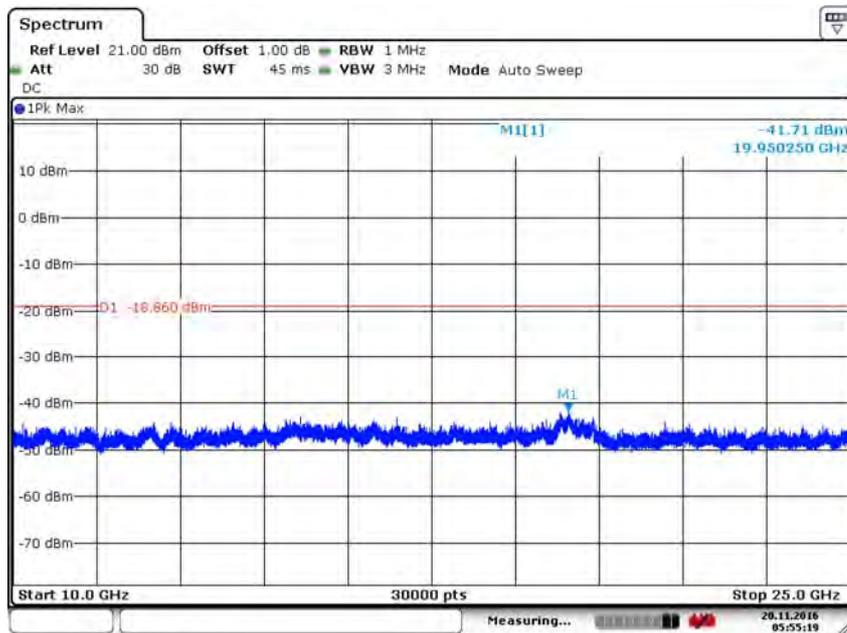
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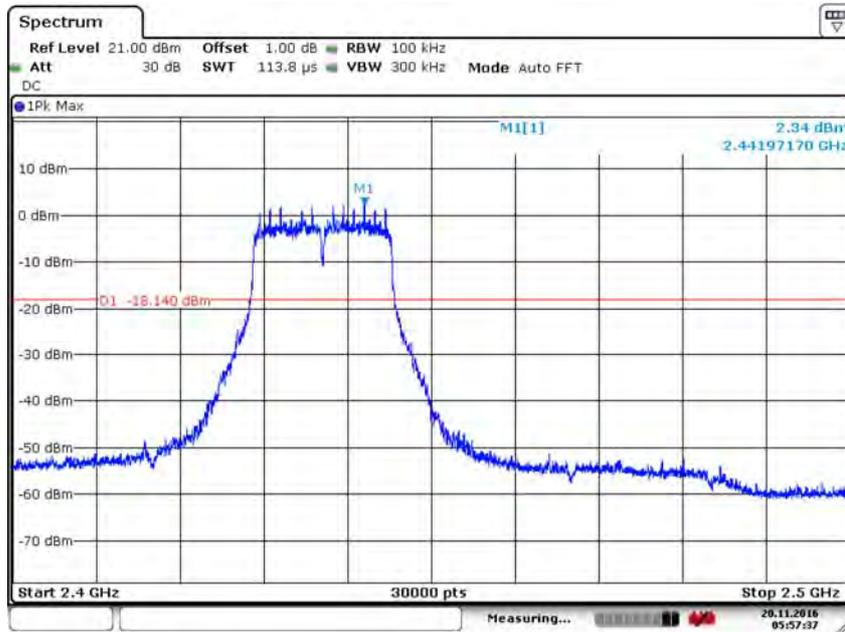
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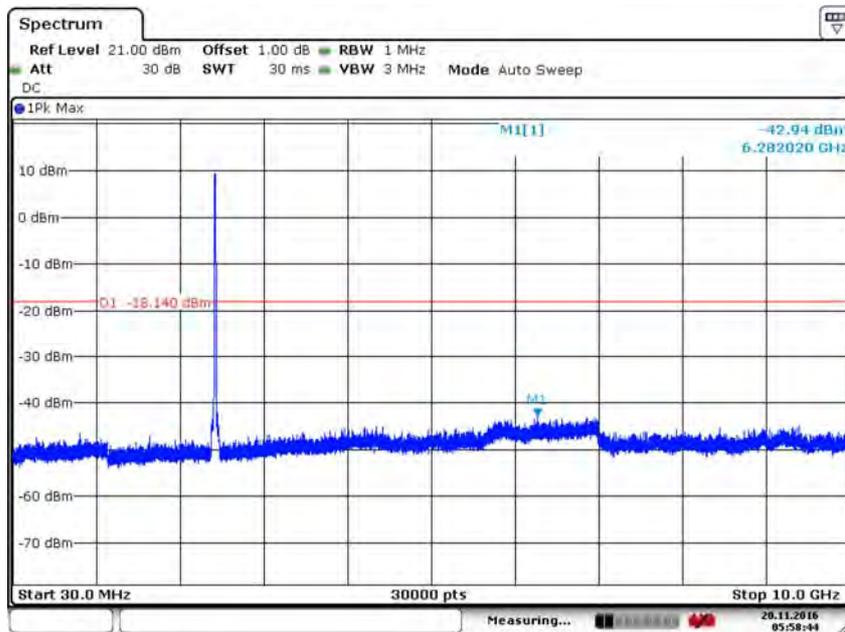
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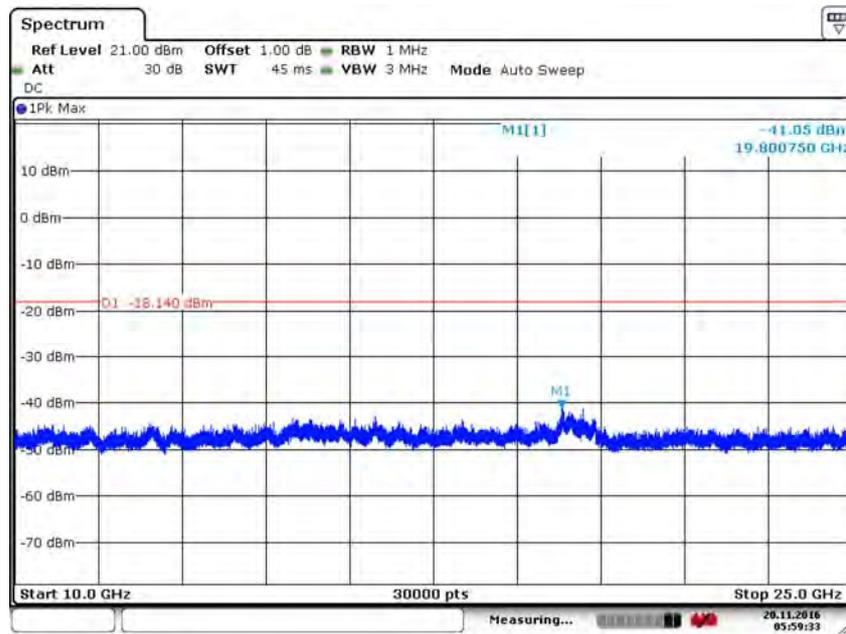
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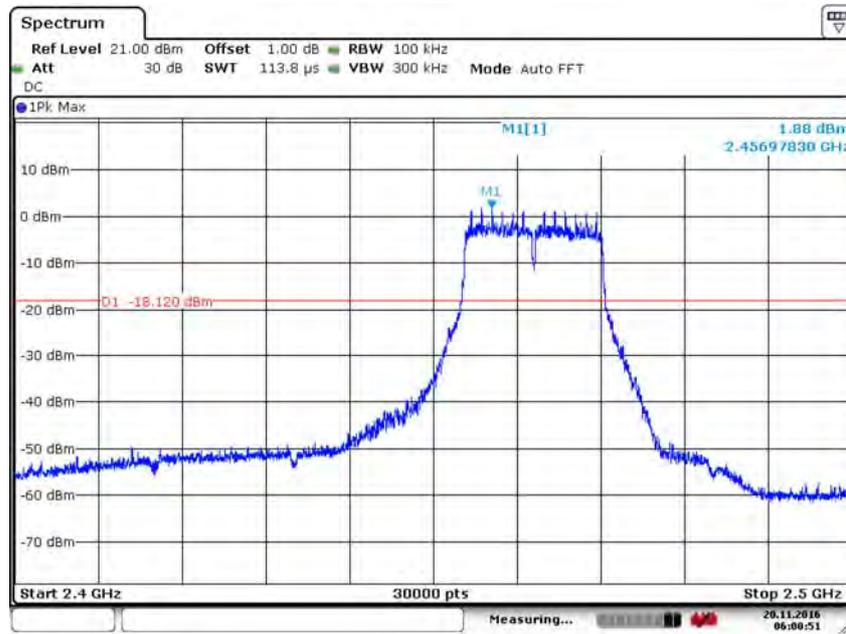


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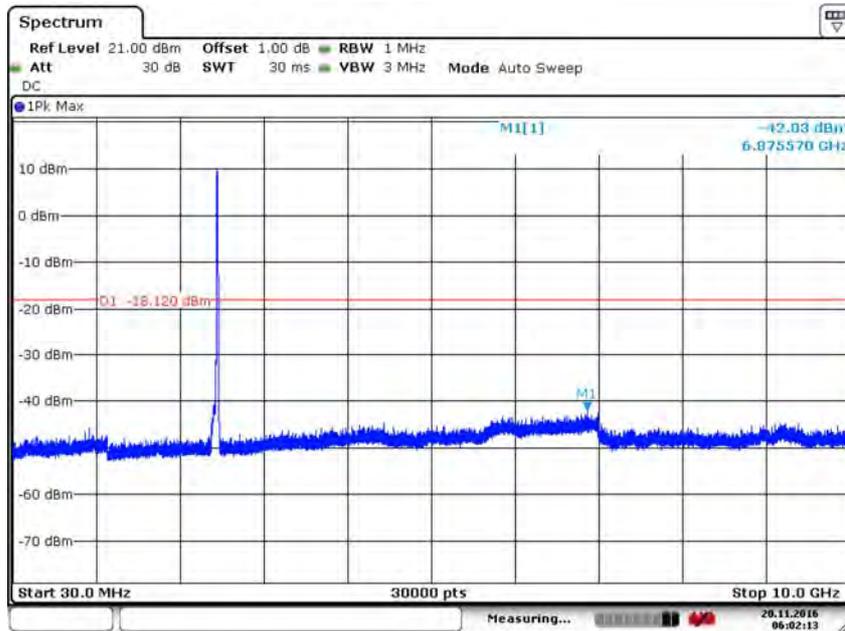


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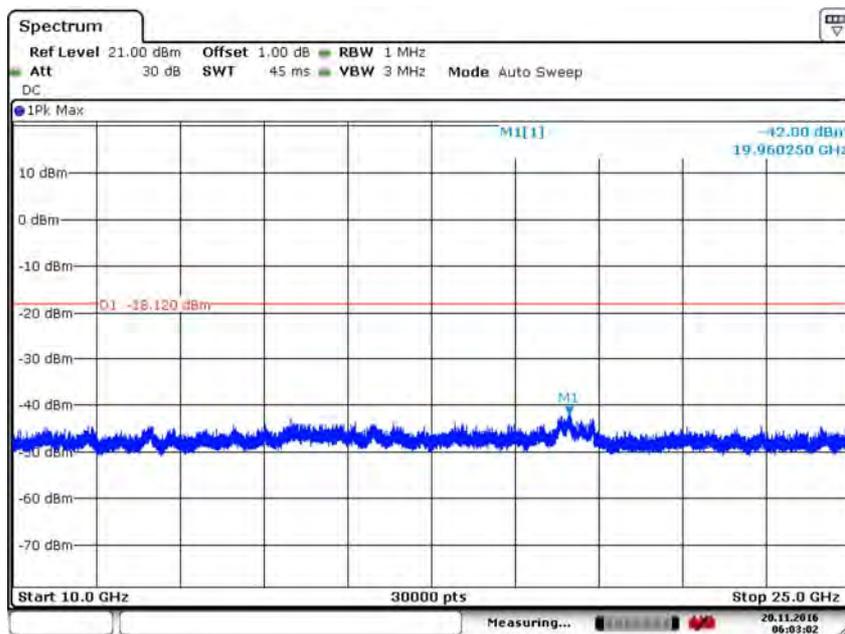
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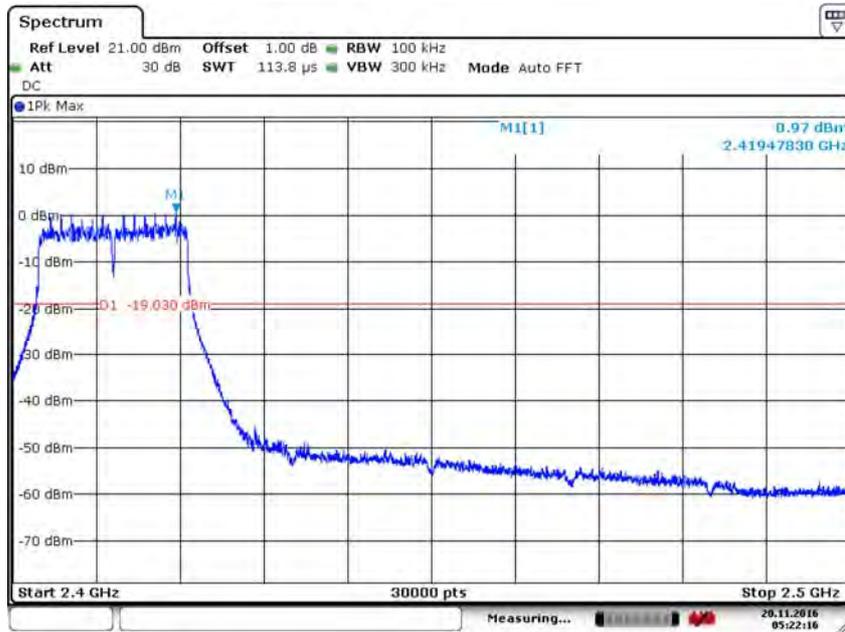
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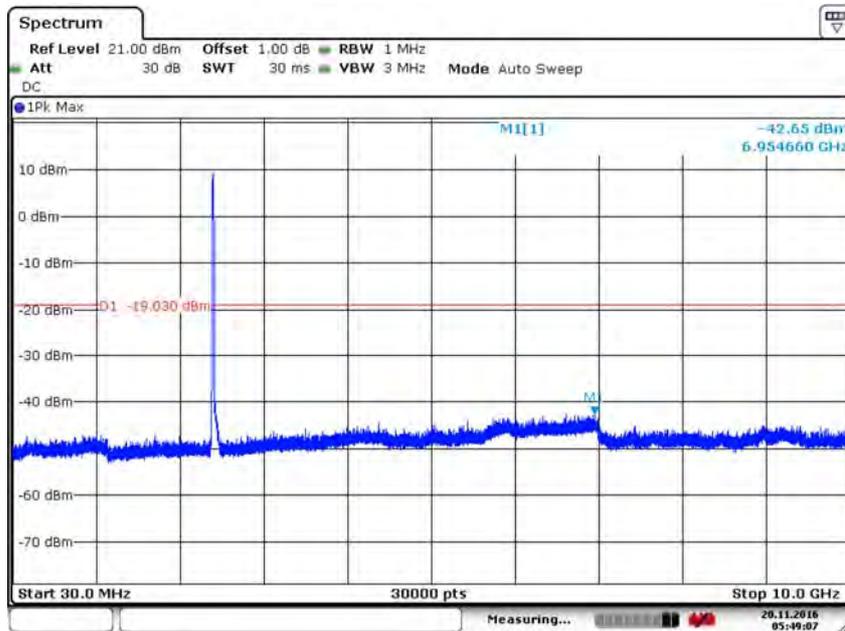
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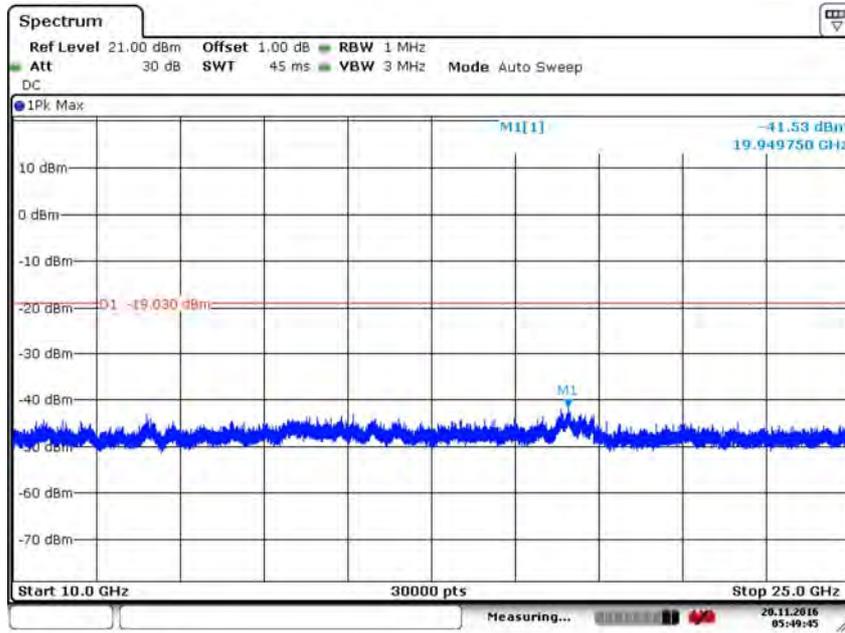
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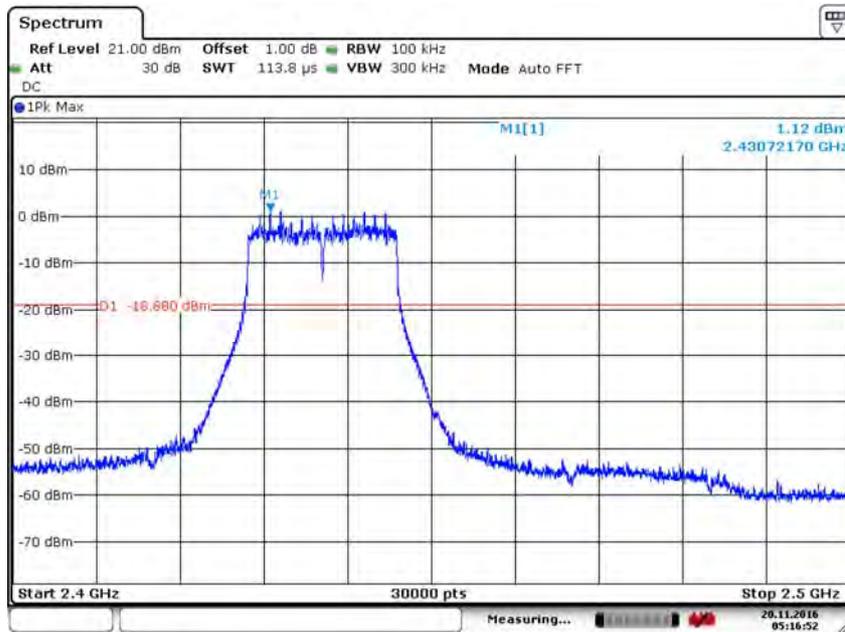


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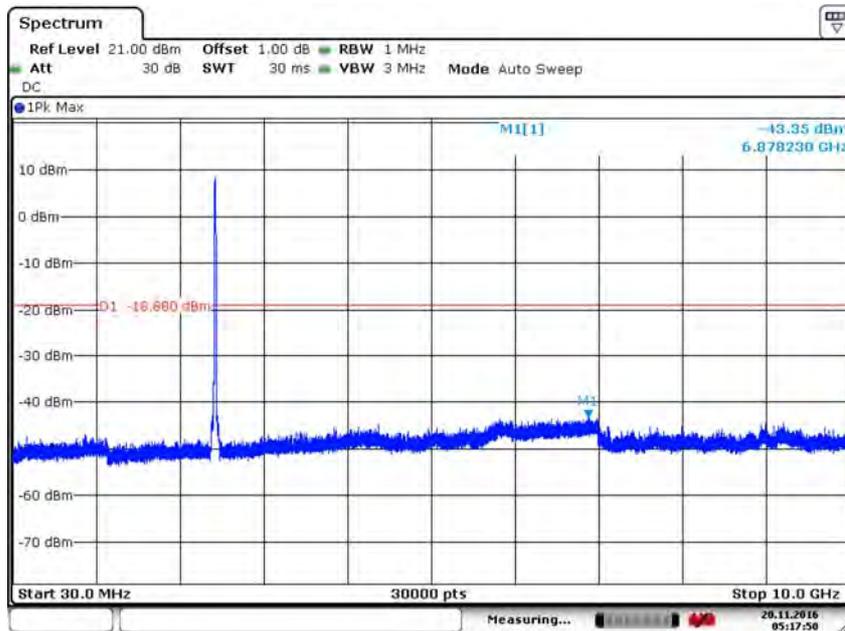


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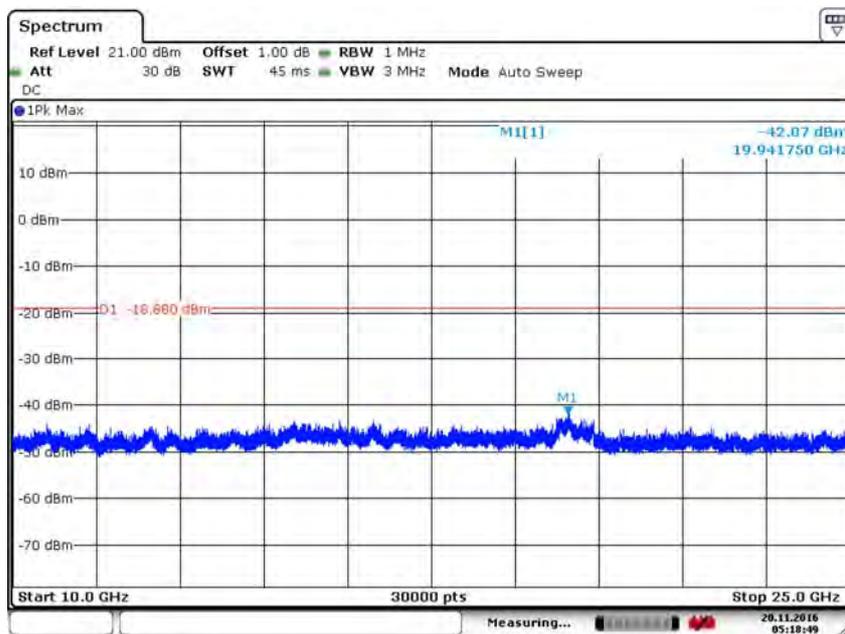
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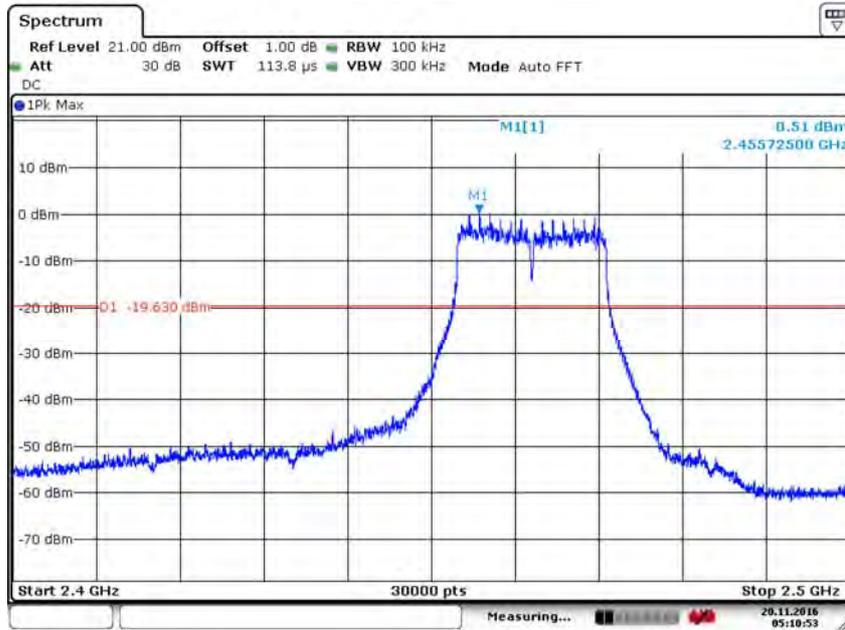
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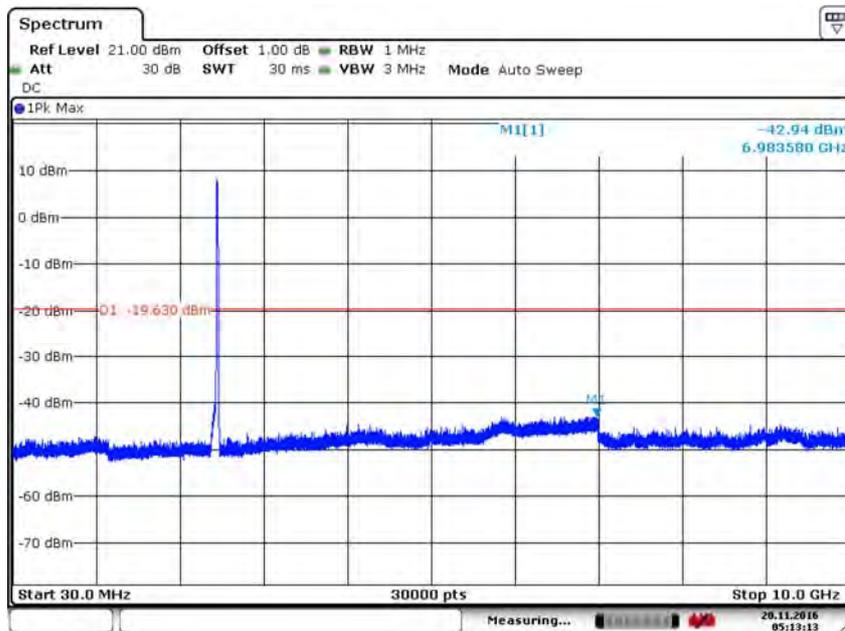
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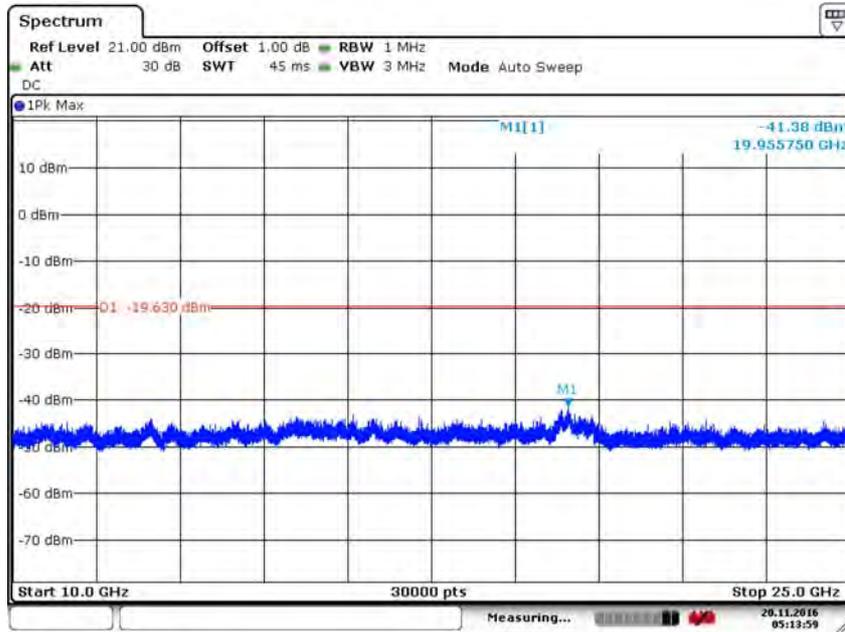
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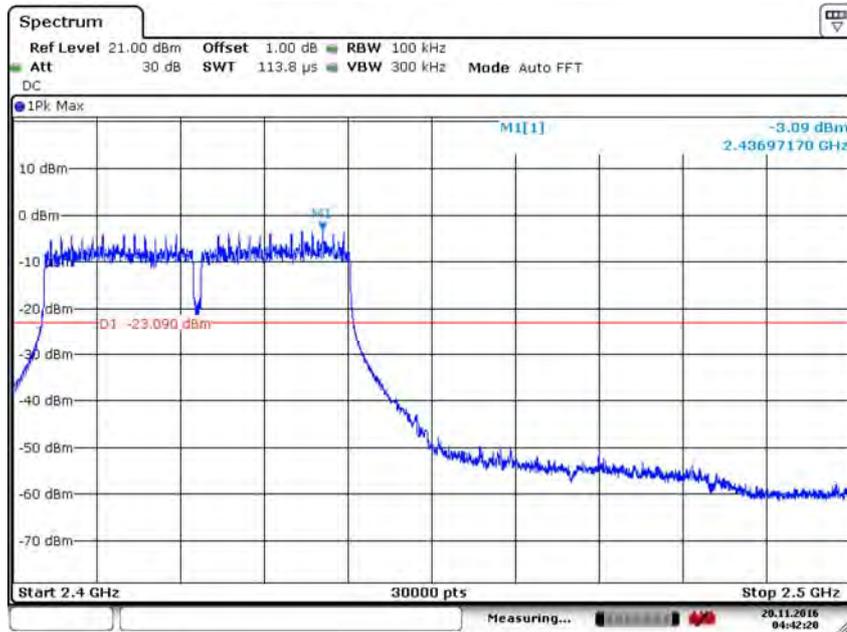


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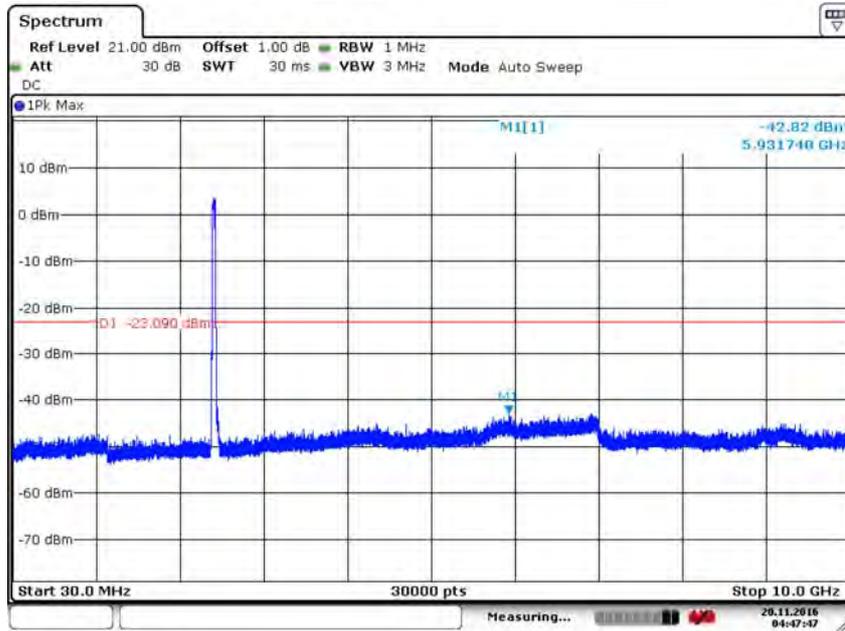


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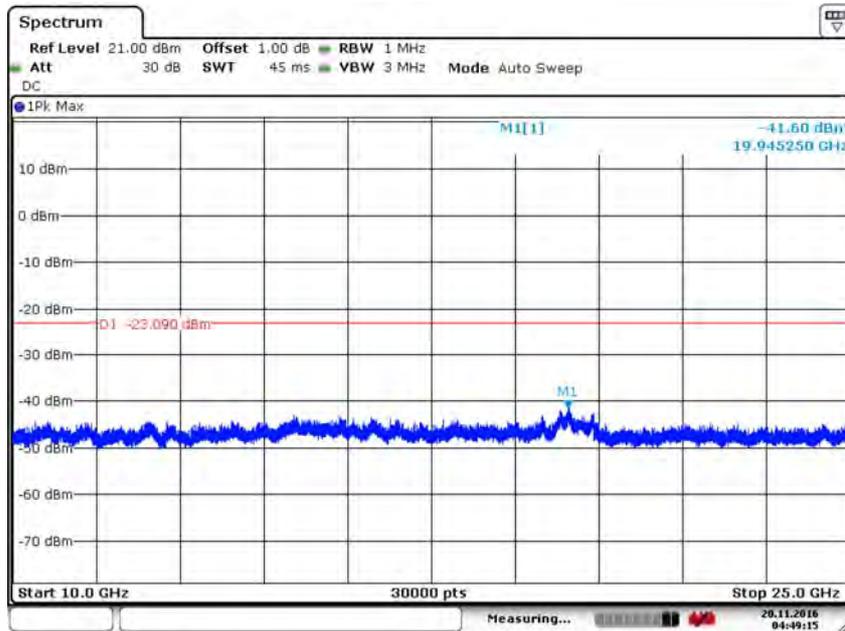
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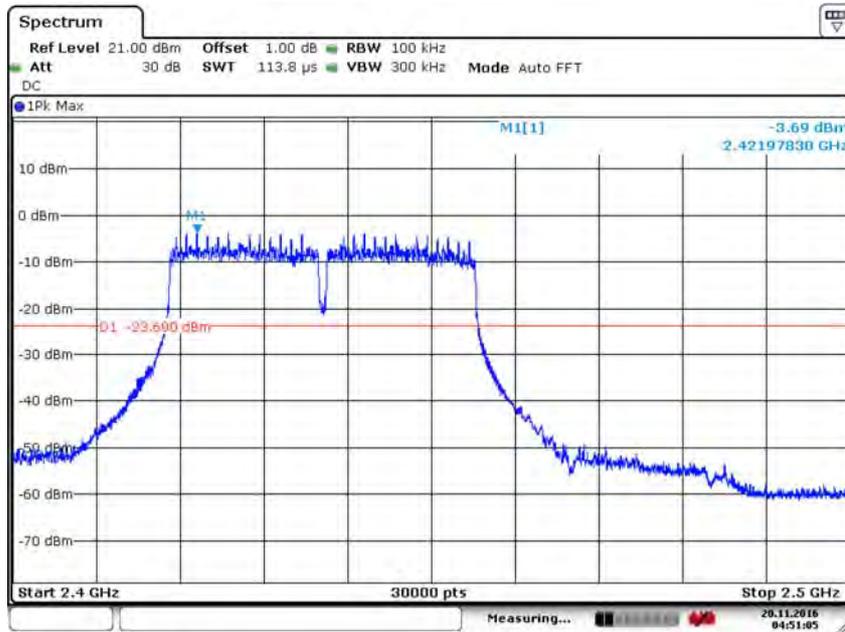
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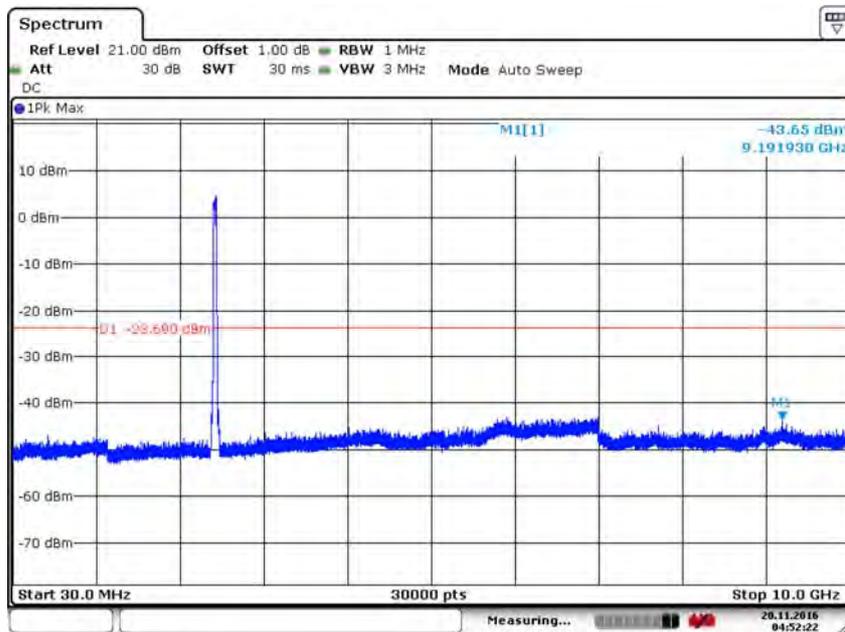
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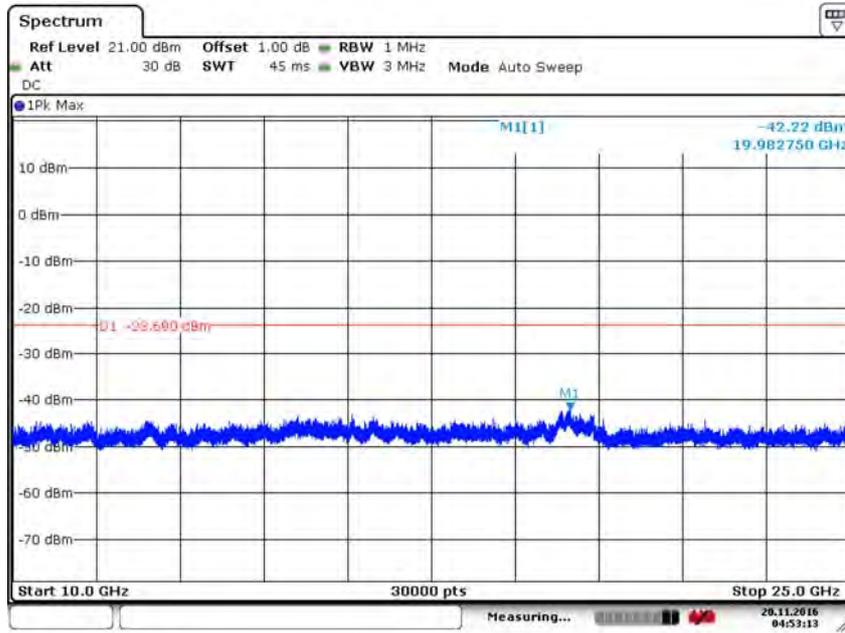
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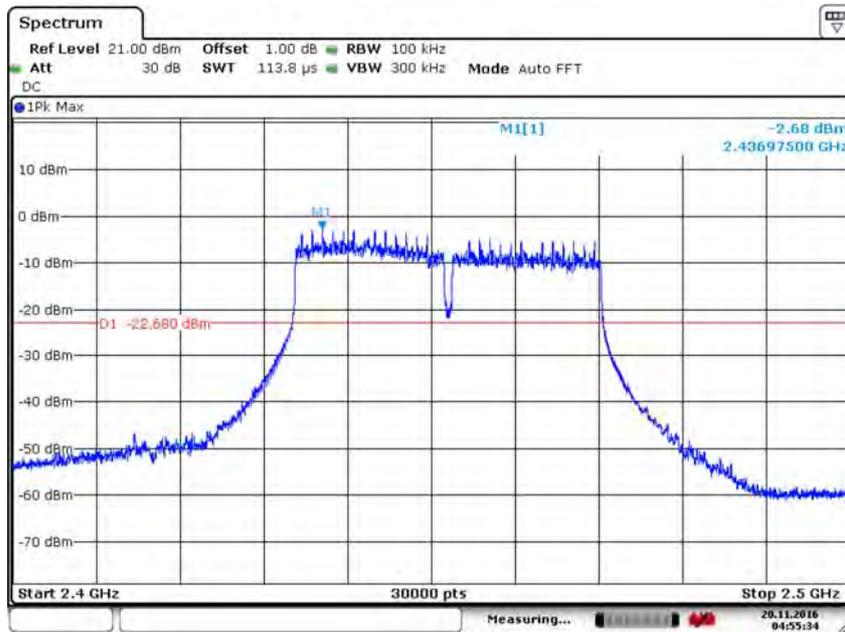


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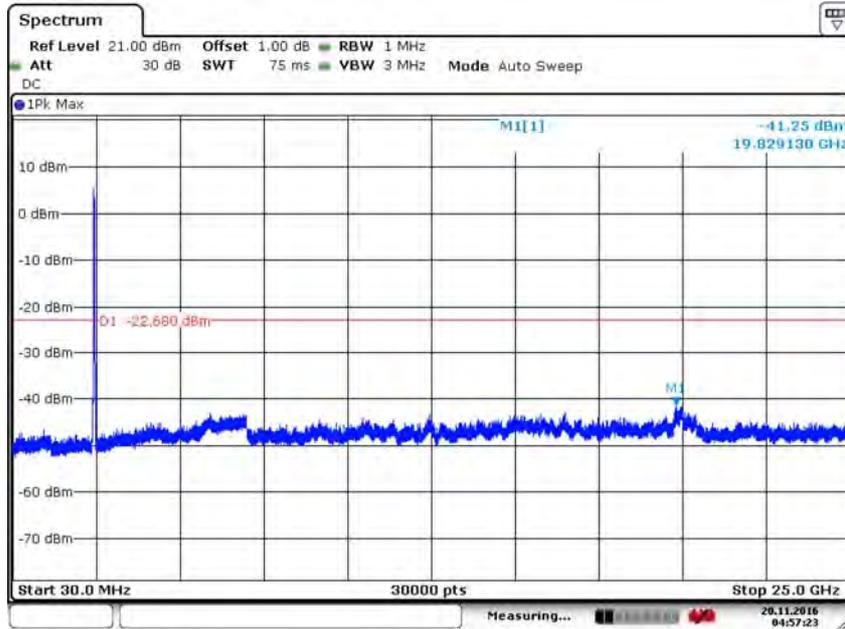


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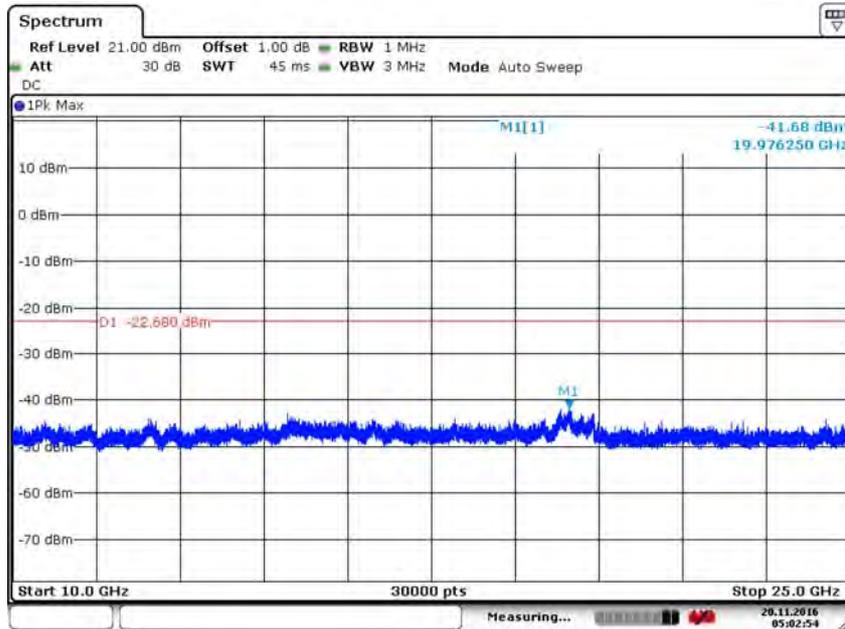
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Date: 20.NOV.2016 04:55:34



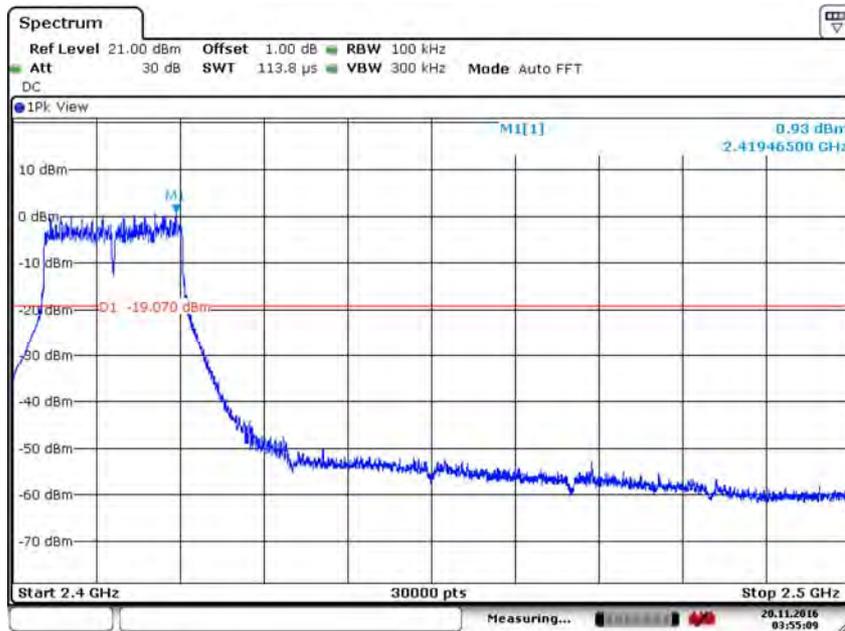
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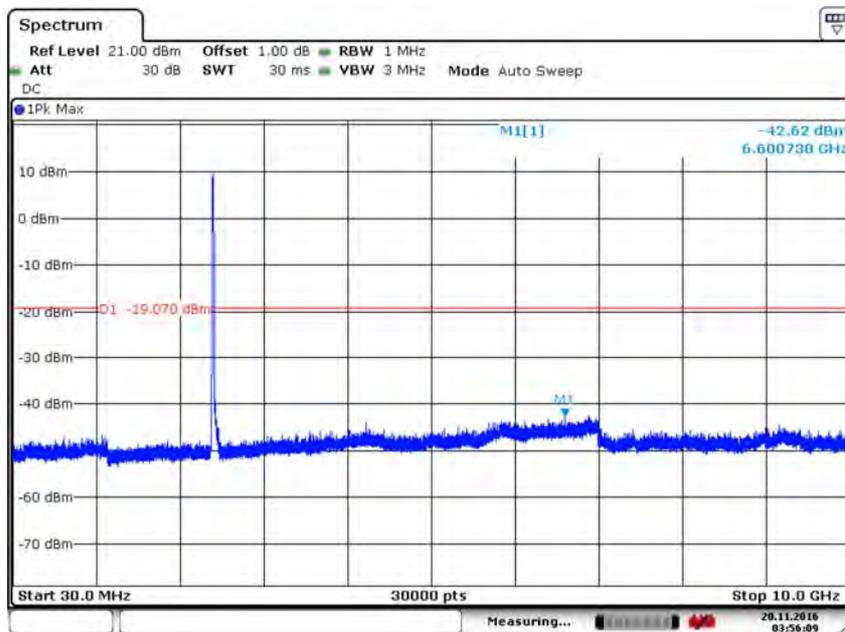
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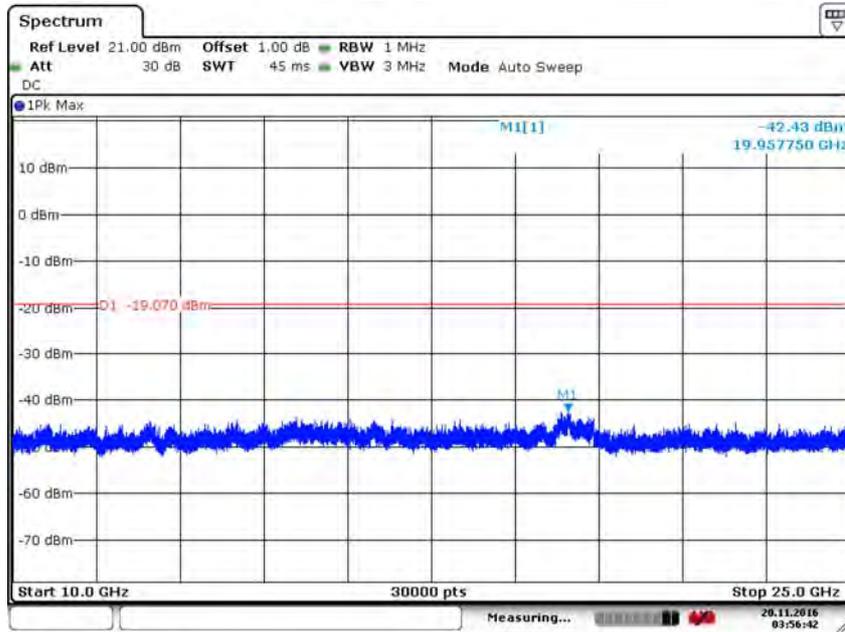
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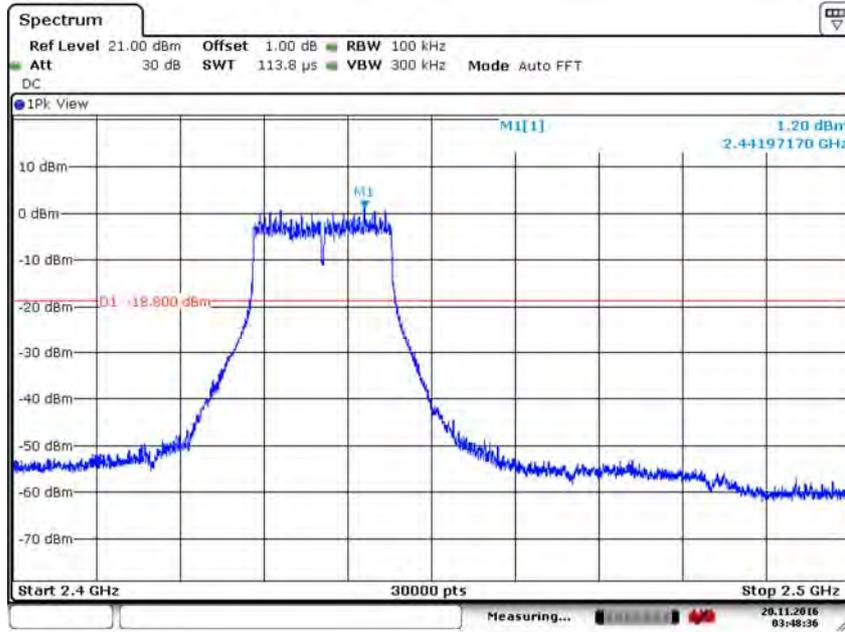


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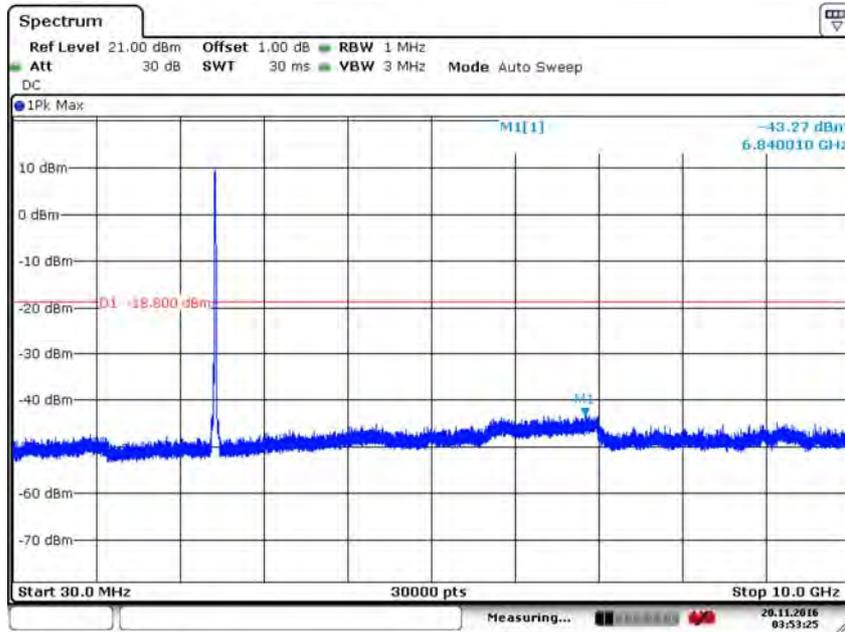


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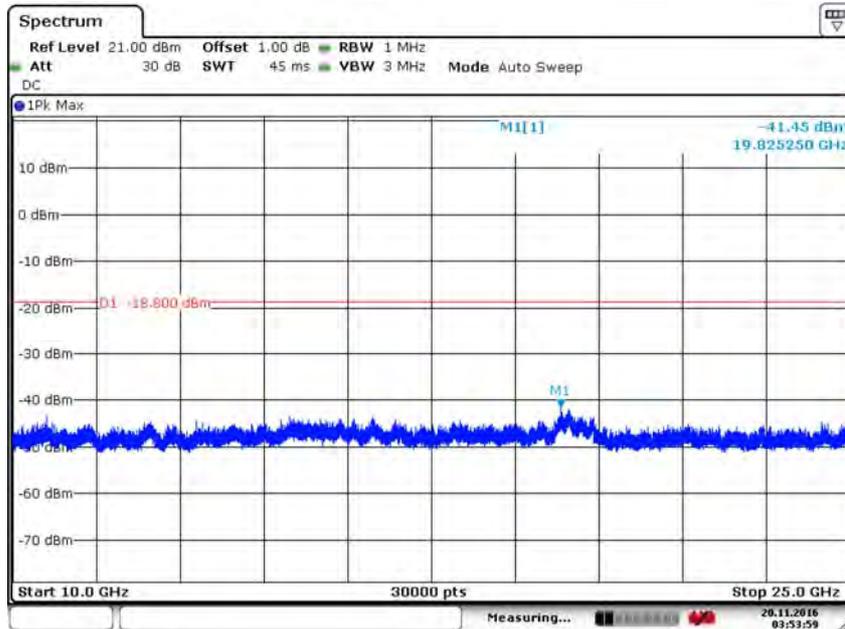
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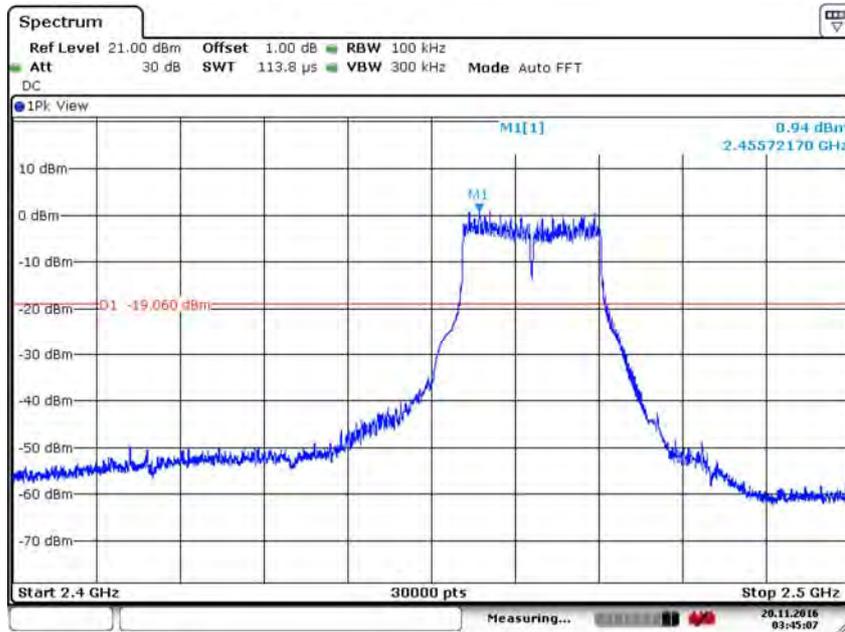
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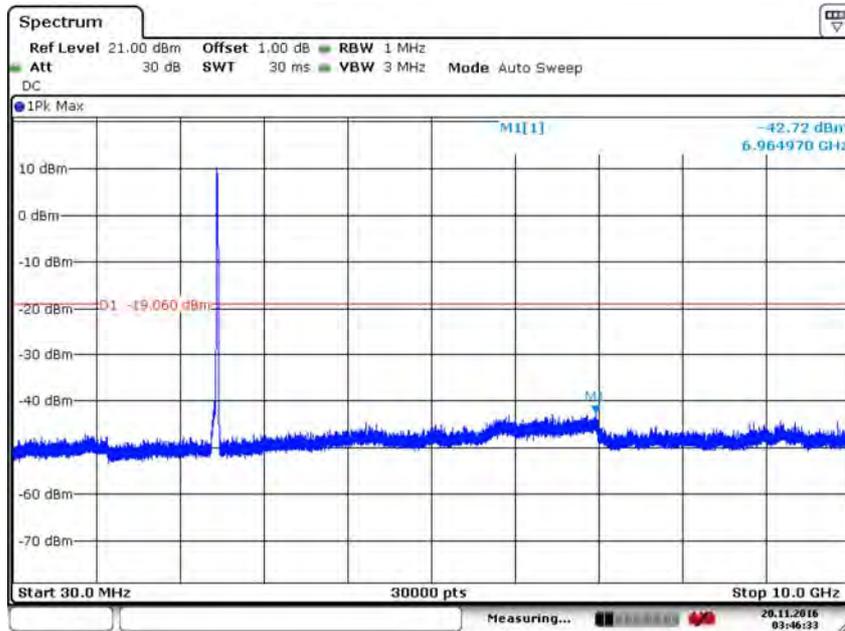
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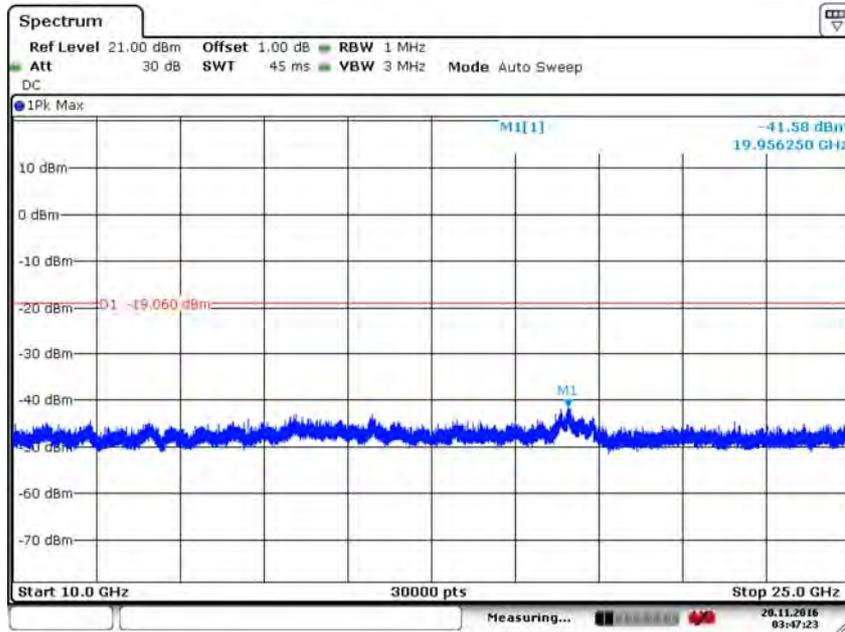
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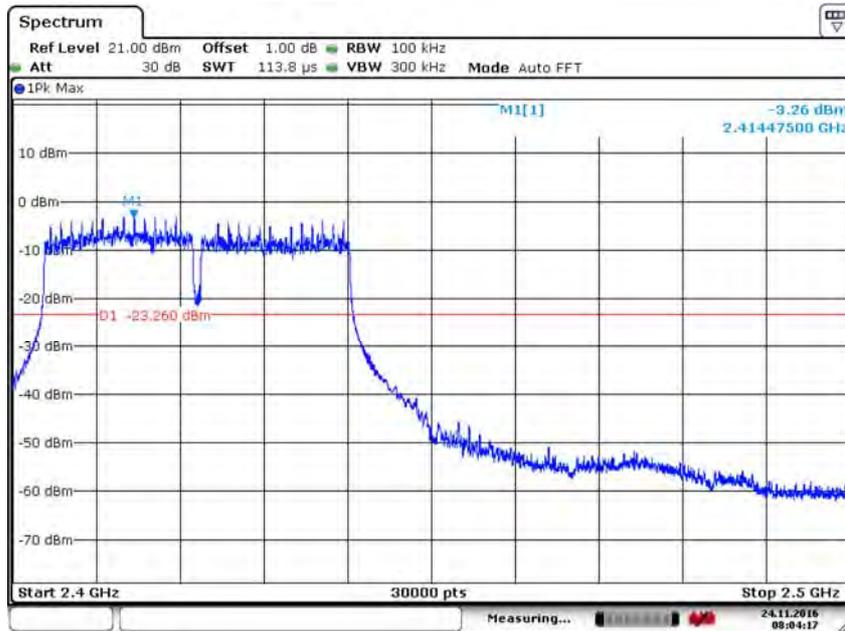


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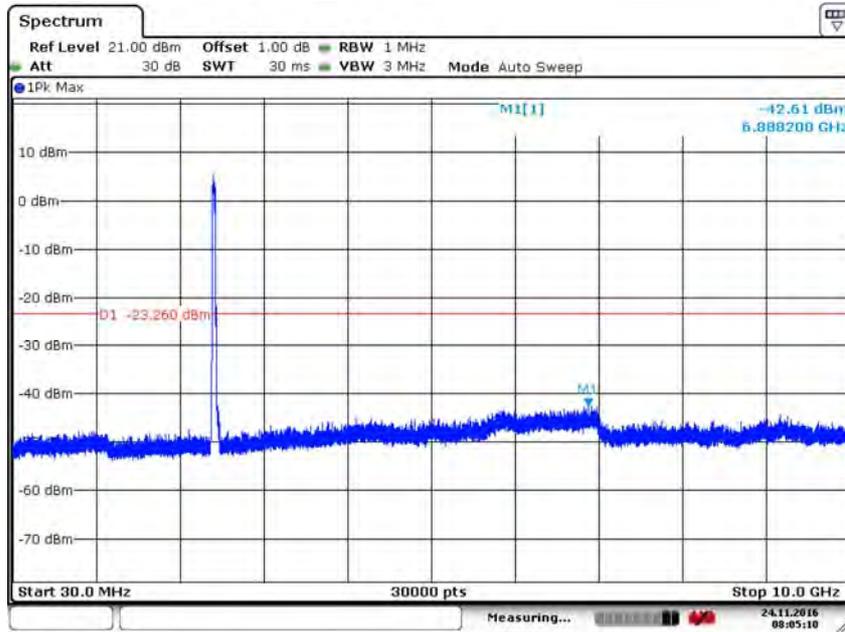


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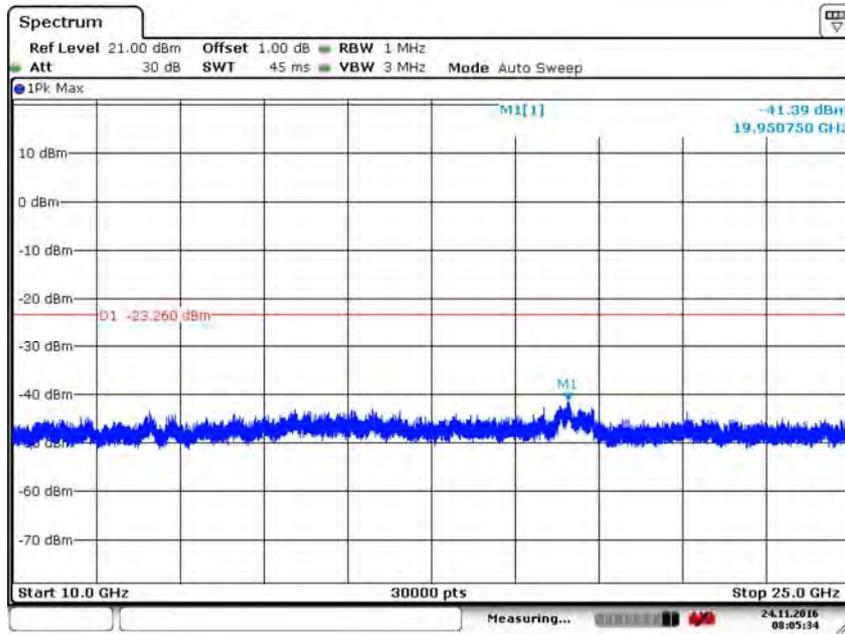
Test mode:	802.11n(HT40)MIMO	Test channel:	Lowest
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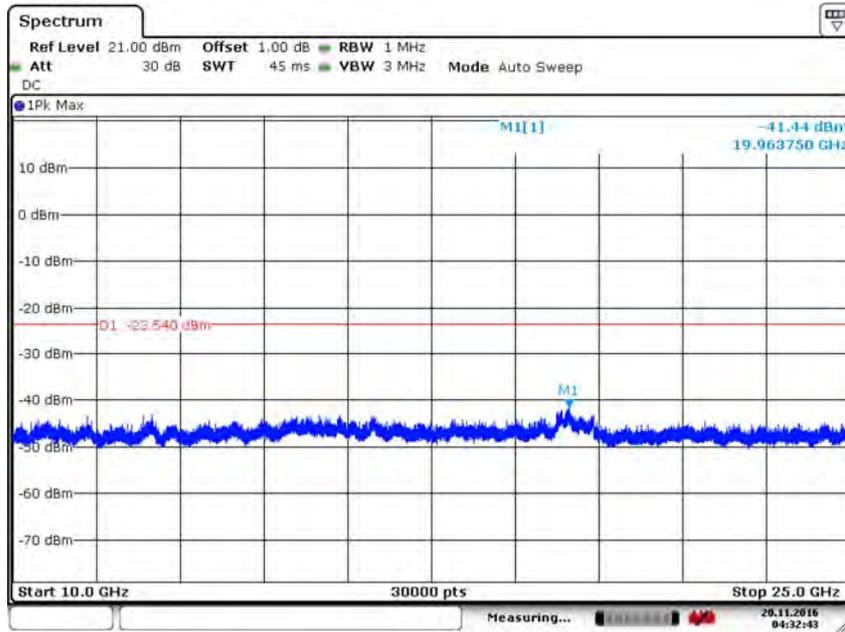
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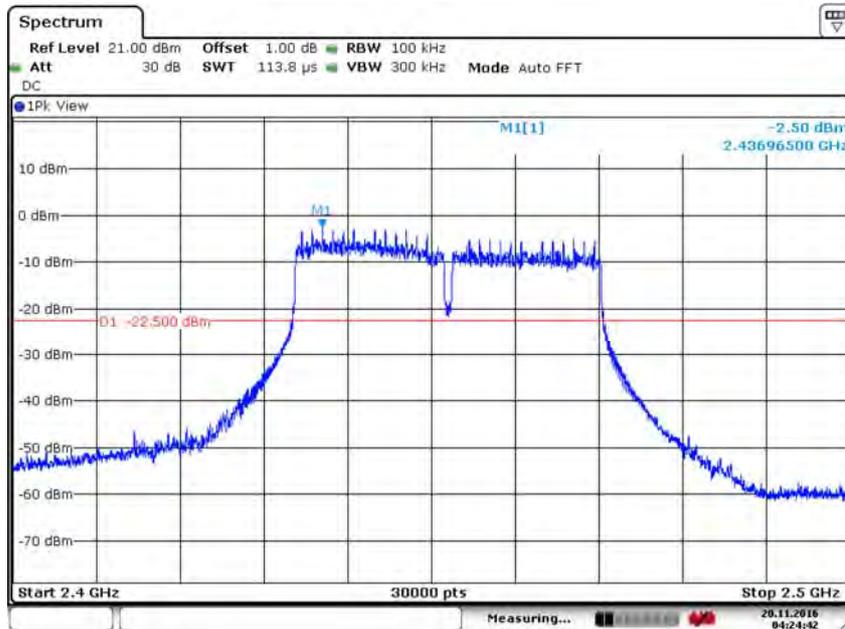


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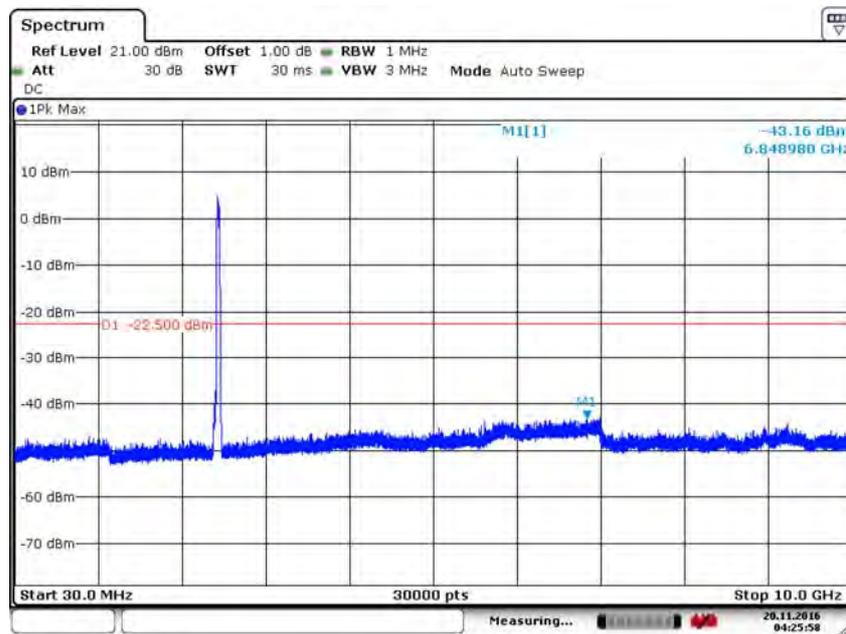


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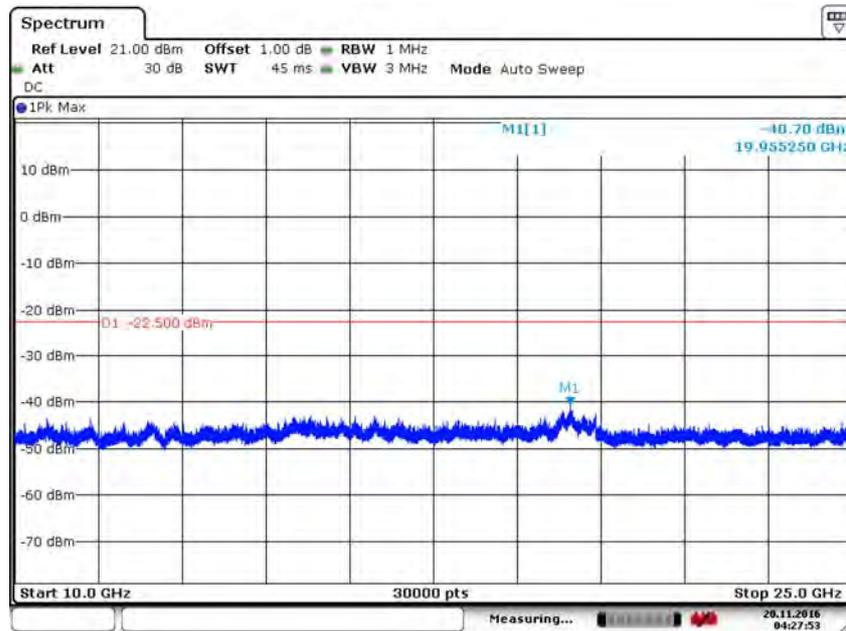
Test mode:	802.11n(HT40)MIMO	Test channel:	Highest
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Date: 20.NOV.2016 04:24:43



Date: 20.NOV.2016 04:25:59



Date: 20.NOV.2016 04:27:53

Remark:

Use 100kHz RBW to determine the relative limit in the band 2.4GHz to 2.5GHz, and Use 1MHz RBW to measure spurious emissions in the band 30MHz to 10GHz and 10GHz to 25GHz. The sweep points set to 30000.



6.8 Radiated Spurious Emissions

Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205				
Test Method:	ANSI C63.10 :2013 Section 11.12				
Test Site:	Below 1GHz: Measurement Distance: 3m (Semi-Anechoic Chamber) Above 1GHz: Measurement Distance: 3m (Full-Anechoic Chamber)				
Receiver Setup:	Frequency	Detector	RBW	VBW	Remark
	0.009MHz-0.090MHz	Peak	10kHz	30kHz	Peak
	0.009MHz-0.090MHz	Average	10kHz	30kHz	Average
	0.090MHz-0.110MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	0.110MHz-0.490MHz	Peak	10kHz	30kHz	Peak
	0.110MHz-0.490MHz	Average	10kHz	30kHz	Average
	0.490MHz -30MHz	Quasi-peak	10kHz	30kHz	Quasi-peak
	30MHz-1GHz	Quasi-peak	100 kHz	300kHz	Quasi-peak
	Above 1GHz	Peak	1MHz	3MHz	Peak
		Peak	1MHz	10Hz	Average
Limit:	Frequency	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)
	0.009MHz-0.490MHz	2400/F(kHz)	-	-	300
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30
	1.705MHz-30MHz	30	-	-	30
	30MHz-88MHz	100	40.0	Quasi-peak	3
	88MHz-216MHz	150	43.5	Quasi-peak	3
	216MHz-960MHz	200	46.0	Quasi-peak	3
	960MHz-1GHz	500	54.0	Quasi-peak	3
	Above 1GHz	500	54.0	Average	3
	Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.				

Test Setup:

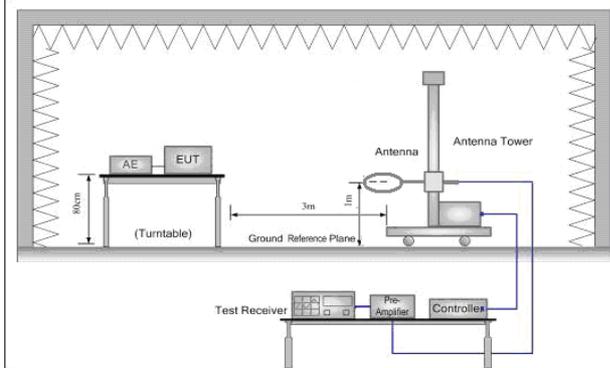


Figure 1. Below 30MHz

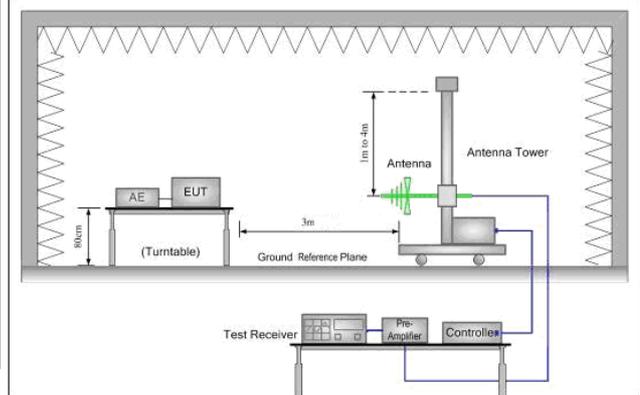


Figure 2. 30MHz to 1GHz

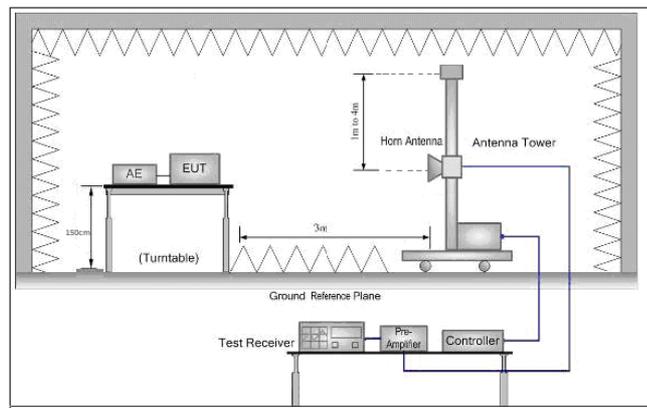


Figure 3. Above 1 GHz

Test Procedure:

- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. 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 full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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 (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.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. 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



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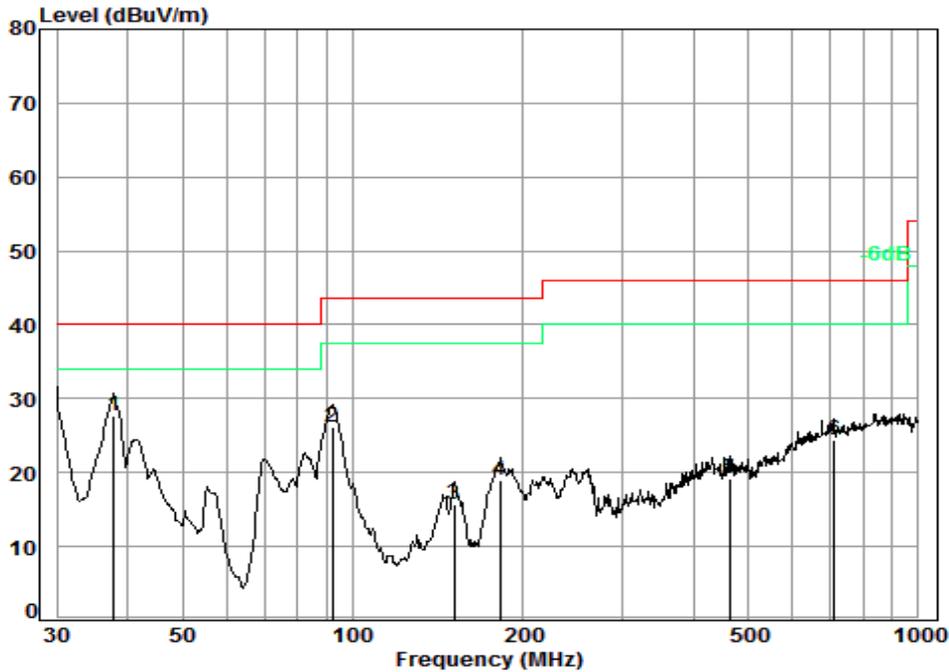
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	<p>EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel</p> <p>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.</p> <p>j. Repeat above procedures until all frequencies measured was complete.</p>
Exploratory Test Mode:	<p>Transmitting with all kind of modulations, data rates.</p> <p>Transmitting mode</p>
Final Test Mode:	<p>Pretest the EUT at Transmitting mode, found the Transmitting mode which it is worse case</p> <p>Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 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)</p> <p>For below 1GHz, through Pre-scan, find the 1Mbps of rate of 802.11b at lowest channel is the worst case.</p> <p>Only the worst case is recorded in the report.</p>
Instruments Used:	Refer to section 5.10 for details
Test Results:	Pass



6.8.1 Radiated emission below 1GHz

30MHz~1GHz (QP)		
Test mode:	Transmitting	Vertical

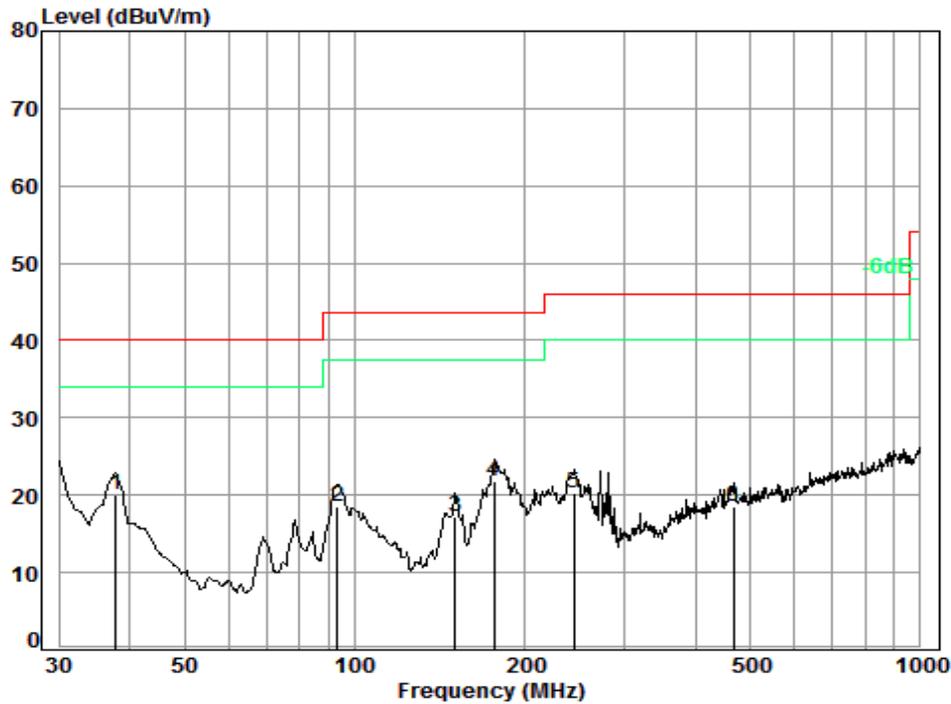


Condition: 3m Vertical
Job No. : 8522RG
Test mode: 2.4G TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Limit Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	37.81	0.60	14.33	27.33	40.07	27.67	40.00	-12.33
2	92.14	1.12	8.79	27.21	43.40	26.10	43.50	-17.40
3	151.07	1.32	9.06	26.90	32.19	15.67	43.50	-27.83
4	182.56	1.37	9.95	26.77	34.50	19.05	43.50	-24.45
5	463.97	2.47	17.40	27.52	26.91	19.26	46.00	-26.74
6	709.18	2.93	21.60	27.40	27.18	24.31	46.00	-21.69



Test mode:	Transmitting	Horizontal
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Condition: 3m HORIZONTAL
 Job No. : 8522RG
 Test mode: 2.4G TX

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	pp	37.81	0.60	14.33	27.33	32.36	19.96	40.00 -20.04
2		93.11	1.13	8.82	27.21	35.69	18.43	43.50 -25.07
3		150.54	1.32	9.03	26.90	33.74	17.19	43.50 -26.31
4		176.27	1.36	9.75	26.79	37.42	21.74	43.50 -21.76
5		244.23	1.65	12.12	26.55	33.05	20.27	46.00 -25.73
6		467.24	2.48	17.52	27.54	26.10	18.56	46.00 -27.44



6.8.2 Transmitter emission above 1GHz

Antenna 0:

Test mode:		802.11b		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
3814.467	33.10	7.75	38.62	44.69	46.92	74.00	-27.08	Vertical		
4824.000	34.19	8.90	39.04	41.77	45.82	74.00	-28.18	Vertical		
5845.324	34.61	10.13	39.01	45.21	50.94	74.00	-23.06	Vertical		
7236.000	36.40	10.69	38.15	42.37	51.31	74.00	-22.69	Vertical		
9648.000	37.53	12.52	36.97	39.50	52.58	74.00	-21.42	Vertical		
11808.790	38.41	14.36	38.12	39.13	53.78	74.00	-20.22	Vertical		
3610.398	32.53	7.67	38.52	44.59	46.27	74.00	-27.73	Horizontal		
4824.000	34.19	8.90	39.04	41.95	46.00	74.00	-28.00	Horizontal		
5921.940	34.65	10.34	39.01	44.29	50.27	74.00	-23.73	Horizontal		
7236.000	36.40	10.69	38.15	42.53	51.47	74.00	-22.53	Horizontal		
9648.000	37.53	12.52	36.97	38.98	52.06	74.00	-21.94	Horizontal		
12208.390	38.73	14.39	38.52	38.44	53.04	74.00	-20.96	Horizontal		

Test mode:		802.11b		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization		
3786.970	33.03	7.74	38.60	44.85	47.02	74.00	-26.98	Vertical		
4874.000	34.28	8.97	39.05	42.38	46.58	74.00	-27.42	Vertical		
6184.658	34.85	10.32	38.88	44.75	51.04	74.00	-22.96	Vertical		
7311.000	36.37	10.72	38.07	42.34	51.36	74.00	-22.64	Vertical		
9748.000	37.55	12.58	36.92	39.13	52.34	74.00	-21.66	Vertical		
11706.720	38.31	14.24	38.02	38.96	53.49	74.00	-20.51	Vertical		
3579.190	32.43	7.66	38.51	44.67	46.25	74.00	-27.75	Horizontal		
4874.000	34.28	8.97	39.05	42.33	46.53	74.00	-27.47	Horizontal		
5947.702	34.67	10.42	39.00	45.23	51.32	74.00	-22.68	Horizontal		
7311.000	36.37	10.72	38.07	41.32	50.34	74.00	-23.66	Horizontal		
9748.000	37.55	12.58	36.92	39.09	52.30	74.00	-21.70	Horizontal		
12314.840	38.79	14.30	38.62	39.08	53.55	74.00	-20.45	Horizontal		



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Test mode:		802.11b		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3786.970	33.03	7.74	38.60	44.85	47.02	74.00	-26.98	Vertical		
4924.000	34.37	9.04	39.07	44.79	49.13	74.00	-24.87	Vertical		
6184.658	34.85	10.32	38.88	44.75	51.04	74.00	-22.96	Vertical		
7386.000	36.34	10.75	38.00	41.85	50.94	74.00	-23.06	Vertical		
9848.000	37.57	12.63	36.87	39.42	52.75	74.00	-21.25	Vertical		
12386.320	38.83	14.24	38.70	38.81	53.18	74.00	-20.82	Vertical		
4082.894	33.60	7.92	38.74	44.94	47.72	74.00	-26.28	Horizontal		
4924.000	34.37	9.04	39.07	43.09	47.43	74.00	-26.57	Horizontal		
6202.582	34.87	10.30	38.87	43.60	49.90	74.00	-24.10	Horizontal		
7386.000	36.34	10.75	38.00	40.12	49.21	74.00	-24.79	Horizontal		
9848.000	37.57	12.63	36.87	38.67	52.00	74.00	-22.00	Horizontal		
12067.890	38.64	14.50	38.37	38.99	53.76	74.00	-20.24	Horizontal		

Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3527.774	32.28	7.64	38.48	43.52	44.96	74.00	-29.04	Vertical		
4824.000	34.19	8.90	39.04	41.07	45.12	74.00	-28.88	Vertical		
5896.291	34.64	10.27	39.01	44.15	50.05	74.00	-23.95	Vertical		
7236.000	36.40	10.69	38.15	41.19	50.13	74.00	-23.87	Vertical		
9648.000	37.53	12.52	36.97	38.39	51.47	74.00	-22.53	Vertical		
12261.500	38.76	14.34	38.57	39.33	53.86	74.00	-20.14	Vertical		
3636.612	32.60	7.68	38.53	44.23	45.98	74.00	-28.02	Horizontal		
4824.000	34.19	8.90	39.04	42.34	46.39	74.00	-27.61	Horizontal		
5921.940	34.65	10.34	39.01	44.67	50.65	74.00	-23.35	Horizontal		
7236.000	36.40	10.69	38.15	42.14	51.08	74.00	-22.92	Horizontal		
9648.000	37.53	12.52	36.97	39.67	52.75	74.00	-21.25	Horizontal		
12243.770	38.75	14.36	38.55	38.96	53.52	74.00	-20.48	Horizontal		



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Test mode:		802.11g		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization		
3748.808	32.92	7.72	38.59	45.16	47.21	74.00	-26.79	Vertical		
4874.000	34.28	8.97	39.05	43.10	47.30	74.00	-26.70	Vertical		
6069.413	34.76	10.47	38.96	44.20	50.47	74.00	-23.53	Vertical		
7311.000	36.37	10.72	38.07	40.48	49.50	74.00	-24.50	Vertical		
9748.000	37.55	12.58	36.92	39.00	52.21	74.00	-21.79	Vertical		
12050.440	38.63	14.52	38.35	39.15	53.95	74.00	-20.05	Vertical		
3831.060	33.15	7.75	38.62	44.26	46.54	74.00	-27.46	Horizontal		
4874.000	34.28	8.97	39.05	41.42	45.62	74.00	-28.38	Horizontal		
6175.716	34.84	10.33	38.89	44.14	50.42	74.00	-23.58	Horizontal		
7311.000	36.37	10.72	38.07	41.36	50.38	74.00	-23.62	Horizontal		
9748.000	37.55	12.58	36.92	38.93	52.14	74.00	-21.86	Horizontal		
12050.440	38.63	14.52	38.35	38.24	53.04	74.00	-20.96	Horizontal		

Test mode:		802.11g		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization		
3960.700	33.50	7.80	38.68	43.83	46.45	74.00	-27.55	Vertical		
4924.000	34.37	9.04	39.07	41.64	45.98	74.00	-28.02	Vertical		
6051.874	34.74	10.49	38.97	44.42	50.68	74.00	-23.32	Vertical		
7386.000	36.34	10.75	38.00	40.75	49.84	74.00	-24.16	Vertical		
9848.000	37.57	12.63	36.87	38.92	52.25	74.00	-21.75	Vertical		
12208.390	38.73	14.39	38.52	38.46	53.06	74.00	-20.94	Vertical		
3847.726	33.19	7.76	38.63	44.36	46.68	74.00	-27.32	Horizontal		
4924.000	34.37	9.04	39.07	43.12	47.46	74.00	-26.54	Horizontal		
6175.716	34.84	10.33	38.89	44.14	50.42	74.00	-23.58	Horizontal		
7386.000	36.34	10.75	38.00	41.13	50.22	74.00	-23.78	Horizontal		
9848.000	37.57	12.63	36.87	38.63	51.96	74.00	-22.04	Horizontal		
12050.440	38.63	14.52	38.35	38.24	53.04	74.00	-20.96	Horizontal		



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Test mode:		802.11n(HT20)		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3759.672	32.95	7.73	38.59	45.31	47.40	74.00	-26.60	Vertical		
4824.000	34.19	8.90	39.04	42.10	46.15	74.00	-27.85	Vertical		
6051.874	34.74	10.49	38.97	44.42	50.68	74.00	-23.32	Vertical		
7236.000	36.40	10.69	38.15	41.59	50.53	74.00	-23.47	Vertical		
9648.000	37.53	12.52	36.97	39.21	52.29	74.00	-21.71	Vertical		
12085.370	38.65	14.49	38.39	39.18	53.93	74.00	-20.07	Vertical		
3847.726	33.19	7.76	38.63	43.98	46.30	74.00	-27.70	Horizontal		
4824.000	34.19	8.90	39.04	41.26	45.31	74.00	-28.69	Horizontal		
5904.828	34.64	10.30	39.01	43.48	49.41	74.00	-24.59	Horizontal		
7236.000	36.40	10.69	38.15	40.42	49.36	74.00	-24.64	Horizontal		
9648.000	37.53	12.52	36.97	38.01	51.09	74.00	-22.91	Horizontal		
12297.040	38.78	14.31	38.61	39.20	53.68	74.00	-20.32	Horizontal		

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3842.163	33.18	7.76	38.63	43.76	46.07	74.00	-27.93	Vertical		
4874.000	34.28	8.97	39.05	41.74	45.94	74.00	-28.06	Vertical		
6113.481	34.79	10.41	38.93	44.73	51.00	74.00	-23.00	Vertical		
7311.000	36.37	10.72	38.07	40.78	49.80	74.00	-24.20	Vertical		
9748.000	37.55	12.58	36.92	39.38	52.59	74.00	-21.41	Vertical		
12243.770	38.75	14.36	38.55	38.68	53.24	74.00	-20.76	Vertical		
3847.726	33.19	7.76	38.63	43.98	46.30	74.00	-27.70	Horizontal		
4874.000	34.28	8.97	39.05	42.16	46.36	74.00	-27.64	Horizontal		
6060.637	34.75	10.48	38.96	43.82	50.09	74.00	-23.91	Horizontal		
7311.000	36.37	10.72	38.07	41.26	50.28	74.00	-23.72	Horizontal		
9748.000	37.55	12.58	36.92	38.82	52.03	74.00	-21.97	Horizontal		
11774.670	38.38	14.32	38.08	39.23	53.85	74.00	-20.15	Horizontal		



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Test mode:		802.11n(HT20)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3842.163	33.18	7.76	38.63	44.42	46.73	74.00	-27.27	Vertical		
4924.000	34.37	9.04	39.07	42.72	47.06	74.00	-26.94	Vertical		
6113.481	34.79	10.41	38.93	44.73	51.00	74.00	-23.00	Vertical		
7386.000	36.34	10.75	38.00	41.52	50.61	74.00	-23.39	Vertical		
9848.000	37.57	12.63	36.87	39.00	52.33	74.00	-21.67	Vertical		
12243.770	38.75	14.36	38.55	38.44	53.00	74.00	-21.00	Vertical		
3759.672	32.95	7.73	38.59	43.61	45.70	74.00	-28.30	Horizontal		
4924.000	34.37	9.04	39.07	43.24	47.58	74.00	-26.42	Horizontal		
6113.481	34.79	10.41	38.93	42.36	48.63	74.00	-25.37	Horizontal		
7386.000	36.34	10.75	38.00	40.89	49.98	74.00	-24.02	Horizontal		
9848.000	37.57	12.63	36.87	38.05	51.38	74.00	-22.62	Horizontal		
12067.890	38.64	14.50	38.37	39.02	53.79	74.00	-20.21	Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3563.687	32.39	7.65	38.50	44.89	46.43	74.00	-27.57	Vertical		
4844.000	34.23	8.92	39.04	40.43	44.54	74.00	-29.46	Vertical		
5956.314	34.67	10.44	39.00	44.93	51.04	74.00	-22.96	Vertical		
7266.000	36.39	10.70	38.12	40.73	49.70	74.00	-24.30	Vertical		
9688.000	37.54	12.54	36.95	38.79	51.92	74.00	-22.08	Vertical		
11998.250	38.60	14.56	38.30	38.34	53.20	74.00	-20.80	Vertical		
3864.464	33.24	7.76	38.64	44.37	46.73	74.00	-27.27	Horizontal		
4844.000	34.23	8.92	39.04	41.88	45.99	74.00	-28.01	Horizontal		
6025.661	34.72	10.53	38.98	43.45	49.72	74.00	-24.28	Horizontal		
7266.000	36.39	10.70	38.12	41.71	50.68	74.00	-23.32	Horizontal		
9688.000	37.54	12.54	36.95	39.82	52.95	74.00	-21.05	Horizontal		
12261.500	38.76	14.34	38.57	39.25	53.78	74.00	-20.22	Horizontal		



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Test mode:		802.11n(HT40)		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3759.672	32.95	7.73	38.59	43.73	45.82	74.00	-28.18	Vertical		
4874.000	34.28	8.97	39.05	42.14	46.34	74.00	-27.66	Vertical		
5956.314	34.67	10.44	39.00	44.93	51.04	74.00	-22.96	Vertical		
7311.000	36.37	10.72	38.07	41.24	50.26	74.00	-23.74	Vertical		
9748.000	37.55	12.58	36.92	39.79	53.00	74.00	-21.00	Vertical		
11998.250	38.60	14.56	38.30	38.34	53.20	74.00	-20.80	Vertical		
3781.495	33.01	7.73	38.60	44.65	46.79	74.00	-27.21	Horizontal		
4874.000	34.28	8.97	39.05	41.40	45.60	74.00	-28.40	Horizontal		
6087.002	34.77	10.45	38.94	44.32	50.60	74.00	-23.40	Horizontal		
7311.000	36.37	10.72	38.07	41.33	50.35	74.00	-23.65	Horizontal		
9748.000	37.55	12.58	36.92	39.45	52.66	74.00	-21.34	Horizontal		
12243.770	38.75	14.36	38.55	38.90	53.46	74.00	-20.54	Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3825.521	33.13	7.75	38.62	44.37	46.63	74.00	-27.37	Vertical		
4904.000	34.33	9.01	39.07	42.45	46.72	74.00	-27.28	Vertical		
6078.201	34.76	10.46	38.95	44.54	50.81	74.00	-23.19	Vertical		
7356.000	36.36	10.74	38.03	40.98	50.05	74.00	-23.95	Vertical		
9808.000	37.56	12.61	36.89	39.00	52.28	74.00	-21.72	Vertical		
12314.840	38.79	14.30	38.62	39.09	53.56	74.00	-20.44	Vertical		
3792.453	33.04	7.74	38.61	43.44	45.61	74.00	-28.39	Horizontal		
4904.000	34.33	9.01	39.07	42.66	46.93	74.00	-27.07	Horizontal		
6025.661	34.72	10.53	38.98	42.84	49.11	74.00	-24.89	Horizontal		
7356.000	36.36	10.74	38.03	41.42	50.49	74.00	-23.51	Horizontal		
9808.000	37.56	12.61	36.89	38.99	52.27	74.00	-21.73	Horizontal		
12261.500	38.76	14.34	38.57	39.22	53.75	74.00	-20.25	Horizontal		



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Antenna 1:

Test mode:		802.11b		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp Factor (dB)	Read Level (dBuV)	Level (dBuV/m)	Limit Line (dBuV/m)	Over Limit (dB)	Polarization		
3831.060	33.15	7.75	38.62	45.07	47.35	74.00	-26.65	Vertical		
4824.000	34.19	8.90	39.04	42.48	46.53	74.00	-27.47	Vertical		
6078.201	34.76	10.46	38.95	44.69	50.96	74.00	-23.04	Vertical		
7236.000	36.40	10.69	38.15	42.23	51.17	74.00	-22.83	Vertical		
9648.000	37.53	12.52	36.97	39.27	52.35	74.00	-21.65	Vertical		
12155.510	38.69	14.43	38.46	38.52	53.18	74.00	-20.82	Vertical		
3584.372	32.45	7.66	38.51	44.42	46.02	74.00	-27.98	Horizontal		
4824.000	34.19	8.90	39.04	43.21	47.26	74.00	-26.74	Horizontal		
6034.386	34.73	10.52	38.98	45.05	51.32	74.00	-22.68	Horizontal		
7236.000	36.40	10.69	38.15	42.79	51.73	74.00	-22.27	Horizontal		
9648.000	37.53	12.52	36.97	39.94	53.02	74.00	-20.98	Horizontal		
12085.370	38.65	14.49	38.39	39.00	53.75	74.00	-20.25	Horizontal		

Test mode:		802.11b		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization		
3792.453	33.04	7.74	38.61	44.63	46.80	74.00	-27.20	Vertical		
4874.000	34.28	8.97	39.05	43.29	47.49	74.00	-26.51	Vertical		
6025.661	34.72	10.53	38.98	44.34	50.61	74.00	-23.39	Vertical		
7311.000	36.37	10.72	38.07	42.49	51.51	74.00	-22.49	Vertical		
9748.000	37.55	12.58	36.92	39.02	52.23	74.00	-21.77	Vertical		
12297.040	38.78	14.31	38.61	39.45	53.93	74.00	-20.07	Vertical		
3831.060	33.15	7.75	38.62	44.60	46.88	74.00	-27.12	Horizontal		
4874.000	34.28	8.97	39.05	43.25	47.45	74.00	-26.55	Horizontal		
6175.716	34.84	10.33	38.89	44.19	50.47	74.00	-23.53	Horizontal		
7311.000	36.37	10.72	38.07	43.21	52.23	74.00	-21.77	Horizontal		
9748.000	37.55	12.58	36.92	40.33	53.54	74.00	-20.46	Horizontal		
12476.260	38.89	14.17	38.79	39.55	53.82	74.00	-20.18	Horizontal		



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Test mode:		802.11b		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
4035.906	33.60	7.86	38.72	44.14	46.88	74.00	-27.12	Vertical		
4924.000	34.37	9.04	39.07	43.08	47.42	74.00	-26.58	Vertical		
6069.413	34.76	10.47	38.96	44.27	50.54	74.00	-23.46	Vertical		
7386.000	36.34	10.75	38.00	42.99	52.08	74.00	-21.92	Vertical		
9848.000	37.57	12.63	36.87	39.72	53.05	74.00	-20.95	Vertical		
11877.340	38.48	14.43	38.18	39.22	53.95	74.00	-20.05	Vertical		
3652.432	32.65	7.69	38.54	43.82	45.62	74.00	-28.38	Horizontal		
4924.000	34.37	9.04	39.07	43.16	47.50	74.00	-26.50	Horizontal		
6220.557	34.88	10.28	38.86	42.52	48.82	74.00	-25.18	Horizontal		
7386.000	36.34	10.75	38.00	42.99	52.08	74.00	-21.92	Horizontal		
9848.000	37.57	12.63	36.87	39.58	52.91	74.00	-21.09	Horizontal		
12639.790	38.87	14.55	38.95	38.75	53.22	74.00	-20.78	Horizontal		

Test mode:		802.11g		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3579.190	32.43	7.66	38.51	43.27	44.85	74.00	-29.15	Vertical		
4824.000	34.19	8.90	39.04	42.78	46.83	74.00	-27.17	Vertical		
6148.967	34.82	10.37	38.90	43.45	49.74	74.00	-24.26	Vertical		
7236.000	36.40	10.69	38.15	42.19	51.13	74.00	-22.87	Vertical		
9648.000	37.53	12.52	36.97	39.99	53.07	74.00	-20.93	Vertical		
12085.370	38.65	14.49	38.39	39.07	53.82	74.00	-20.18	Vertical		
3915.118	33.38	7.78	38.66	43.06	45.56	74.00	-28.44	Horizontal		
4824.000	34.19	8.90	39.04	42.98	47.03	74.00	-26.97	Horizontal		
6008.249	34.71	10.55	38.99	42.78	49.05	74.00	-24.95	Horizontal		
7236.000	36.40	10.69	38.15	42.58	51.52	74.00	-22.48	Horizontal		
9648.000	37.53	12.52	36.97	39.37	52.45	74.00	-21.55	Horizontal		
11980.900	38.58	14.54	38.28	38.37	53.21	74.00	-20.79	Horizontal		



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Test mode:		802.11g		Test channel:		Middle		Remark:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization	
3711.030	32.81	7.71	38.57	42.71	44.66	74.00	-29.34	Vertical	
4874.000	34.28	8.97	39.05	43.49	47.69	74.00	-26.31	Vertical	
5956.314	34.67	10.44	39.00	43.59	49.70	74.00	-24.30	Vertical	
7311.000	36.37	10.72	38.07	43.22	52.24	74.00	-21.76	Vertical	
9748.000	37.55	12.58	36.92	40.22	53.43	74.00	-20.57	Vertical	
12226.070	38.74	14.37	38.53	39.18	53.76	74.00	-20.24	Vertical	
3700.306	32.78	7.71	38.56	40.45	42.38	74.00	-31.62	Horizontal	
4874.000	34.28	8.97	39.05	41.69	45.89	74.00	-28.11	Horizontal	
6060.637	34.75	10.48	38.96	43.27	49.54	74.00	-24.46	Horizontal	
7311.000	36.37	10.72	38.07	41.38	50.40	74.00	-23.60	Horizontal	
9748.000	37.55	12.58	36.92	39.01	52.22	74.00	-21.78	Horizontal	
12067.890	38.64	14.50	38.37	38.46	53.23	74.00	-20.77	Horizontal	

Test mode:		802.11g		Test channel:		Highest		Remark:	Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization	
3803.444	33.07	7.74	38.61	41.39	43.59	74.00	-30.41	Vertical	
4924.000	34.37	9.04	39.07	42.60	46.94	74.00	-27.06	Vertical	
6034.386	34.73	10.52	38.98	42.51	48.78	74.00	-25.22	Vertical	
7386.000	36.34	10.75	38.00	40.98	50.07	74.00	-23.93	Vertical	
9848.000	37.57	12.63	36.87	39.12	52.45	74.00	-21.55	Vertical	
12120.390	38.67	14.46	38.42	38.70	53.41	74.00	-20.59	Vertical	
3684.279	32.74	7.70	38.56	41.72	43.60	74.00	-30.40	Horizontal	
4924.000	34.37	9.04	39.07	43.99	48.33	74.00	-25.67	Horizontal	
6034.386	34.73	10.52	38.98	42.55	48.82	74.00	-25.18	Horizontal	
7386.000	36.34	10.75	38.00	40.72	49.81	74.00	-24.19	Horizontal	
9848.000	37.57	12.63	36.87	39.26	52.59	74.00	-21.41	Horizontal	
12102.870	38.66	14.47	38.41	38.39	53.11	74.00	-20.89	Horizontal	



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Test mode:		802.11n(HT20)		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3836.607	33.16	7.75	38.63	43.16	45.44	74.00	-28.56	Vertical		
4824.000	34.19	8.90	39.04	43.64	47.69	74.00	-26.31	Vertical		
5828.433	34.60	10.08	39.02	43.63	49.29	74.00	-24.71	Vertical		
7236.000	36.40	10.69	38.15	41.82	50.76	74.00	-23.24	Vertical		
9648.000	37.53	12.52	36.97	39.76	52.84	74.00	-21.16	Vertical		
12190.740	38.72	14.40	38.50	38.71	53.33	74.00	-20.67	Vertical		
3920.787	33.39	7.78	38.67	44.93	47.43	74.00	-26.57	Horizontal		
4824.000	34.19	8.90	39.04	43.64	47.69	74.00	-26.31	Horizontal		
5964.939	34.68	10.46	39.00	44.04	50.18	74.00	-23.82	Horizontal		
7236.000	36.40	10.69	38.15	42.37	51.31	74.00	-22.69	Horizontal		
9648.000	37.53	12.52	36.97	39.33	52.41	74.00	-21.59	Horizontal		
12190.740	38.72	14.40	38.50	38.71	53.33	74.00	-20.67	Horizontal		

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3825.521	33.13	7.75	38.62	41.32	43.58	74.00	-30.42	Vertical		
4874.000	34.28	8.97	39.05	41.64	45.84	74.00	-28.16	Vertical		
6166.787	34.84	10.34	38.89	43.16	49.45	74.00	-24.55	Vertical		
7311.000	36.37	10.72	38.07	41.31	50.33	74.00	-23.67	Vertical		
9748.000	37.55	12.58	36.92	38.97	52.18	74.00	-21.82	Vertical		
11877.340	38.48	14.43	38.18	39.13	53.86	74.00	-20.14	Vertical		
3589.562	32.46	7.66	38.51	45.06	46.67	74.00	-27.33	Horizontal		
4874.000	34.28	8.97	39.05	42.07	46.27	74.00	-27.73	Horizontal		
6095.816	34.78	10.44	38.94	42.59	48.87	74.00	-25.13	Horizontal		
7311.000	36.37	10.72	38.07	42.18	51.20	74.00	-22.80	Horizontal		
9748.000	37.55	12.58	36.92	39.66	52.87	74.00	-21.13	Horizontal		
12067.890	38.64	14.50	38.37	38.30	53.07	74.00	-20.93	Horizontal		



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Test mode:		802.11n(HT20)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3853.298	33.21	7.76	38.64	43.04	45.37	74.00	-28.63	Vertical		
4824.000	34.19	8.90	39.04	44.44	48.49	74.00	-25.51	Vertical		
6060.637	34.75	10.48	38.96	43.35	49.62	74.00	-24.38	Vertical		
7386.000	36.34	10.75	38.00	41.54	50.63	74.00	-23.37	Vertical		
9848.000	37.57	12.63	36.87	39.00	52.33	74.00	-21.67	Vertical		
12102.870	38.66	14.47	38.41	38.42	53.14	74.00	-20.86	Vertical		
3825.521	33.13	7.75	38.62	42.60	44.86	74.00	-29.14	Horizontal		
4924.000	34.37	9.04	39.07	42.20	46.54	74.00	-27.46	Horizontal		
6008.249	34.71	10.55	38.99	42.79	49.06	74.00	-24.94	Horizontal		
7386.000	36.34	10.75	38.00	40.51	49.60	74.00	-24.40	Horizontal		
9848.000	37.57	12.63	36.87	39.39	52.72	74.00	-21.28	Horizontal		
12120.390	38.67	14.46	38.42	38.34	53.05	74.00	-20.95	Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3831.060	33.15	7.75	38.62	44.29	46.57	74.00	-27.43	Vertical		
4844.000	34.23	8.92	39.04	41.66	45.77	74.00	-28.23	Vertical		
6034.386	34.73	10.52	38.98	44.53	50.80	74.00	-23.20	Vertical		
7266.000	36.39	10.70	38.12	41.98	50.95	74.00	-23.05	Vertical		
9688.000	37.54	12.54	36.95	39.43	52.56	74.00	-21.44	Vertical		
12314.840	38.79	14.30	38.62	39.13	53.60	74.00	-20.40	Vertical		
3631.354	32.59	7.68	38.53	43.63	45.37	74.00	-28.63	Horizontal		
4844.000	34.23	8.92	39.04	41.92	46.03	74.00	-27.97	Horizontal		
5820.005	34.59	10.06	39.02	44.34	49.97	74.00	-24.03	Horizontal		
7266.000	36.39	10.70	38.12	43.34	52.31	74.00	-21.69	Horizontal		
9688.000	37.54	12.54	36.95	39.50	52.63	74.00	-21.37	Horizontal		
12067.890	38.64	14.50	38.37	39.15	53.92	74.00	-20.08	Horizontal		



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Test mode:		802.11n(HT40)		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3786.970	33.03	7.74	38.60	45.21	47.38	74.00	-26.62	Vertical		
4874.000	34.28	8.97	39.05	41.14	45.34	74.00	-28.66	Vertical		
5939.103	34.66	10.39	39.01	44.15	50.19	74.00	-23.81	Vertical		
7311.000	36.37	10.72	38.07	40.63	49.65	74.00	-24.35	Vertical		
9748.000	37.55	12.58	36.92	38.81	52.02	74.00	-21.98	Vertical		
12297.040	38.78	14.31	38.61	38.79	53.27	74.00	-20.73	Vertical		
3803.444	33.07	7.74	38.61	44.46	46.66	74.00	-27.34	Horizontal		
4874.000	34.28	8.97	39.05	42.45	46.65	74.00	-27.35	Horizontal		
5947.702	34.67	10.42	39.00	44.55	50.64	74.00	-23.36	Horizontal		
7311.000	36.37	10.72	38.07	42.15	51.17	74.00	-22.83	Horizontal		
9748.000	37.55	12.58	36.92	39.23	52.44	74.00	-21.56	Horizontal		
12067.890	38.64	14.50	38.37	39.15	53.92	74.00	-20.08	Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3754.236	32.94	7.72	38.59	44.27	46.34	74.00	-27.66	Vertical		
4904.000	34.33	9.01	39.07	43.21	47.48	74.00	-26.52	Vertical		
6060.637	34.75	10.48	38.96	44.36	50.63	74.00	-23.37	Vertical		
7356.000	36.36	10.74	38.03	41.49	50.56	74.00	-23.44	Vertical		
9808.000	37.56	12.61	36.89	39.45	52.73	74.00	-21.27	Vertical		
12137.940	38.68	14.45	38.44	38.50	53.19	74.00	-20.81	Vertical		
3903.804	33.34	7.78	38.66	43.83	46.29	74.00	-27.71	Horizontal		
4904.000	34.33	9.01	39.07	42.96	47.23	74.00	-26.77	Horizontal		
6202.582	34.87	10.30	38.87	43.78	50.08	74.00	-23.92	Horizontal		
7356.000	36.36	10.74	38.03	41.06	50.13	74.00	-23.87	Horizontal		
9808.000	37.56	12.61	36.89	38.56	51.84	74.00	-22.16	Horizontal		
12226.070	38.74	14.37	38.53	39.41	53.99	74.00	-20.01	Horizontal		



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Test mode:		802.11n(HT20)		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization		
3765.116	32.97	7.73	38.59	44.53	46.64	74.00	-27.36	Vertical		
4824.000	34.19	8.90	39.04	42.57	46.62	74.00	-27.38	Vertical		
6034.386	34.73	10.52	38.98	43.65	49.92	74.00	-24.08	Vertical		
7236.000	36.40	10.69	38.15	42.14	51.08	74.00	-22.92	Vertical		
9648.000	37.53	12.52	36.97	39.08	52.16	74.00	-21.84	Vertical		
12137.940	38.68	14.45	38.44	38.53	53.22	74.00	-20.78	Vertical		
3579.190	32.43	7.66	38.51	44.75	46.33	74.00	-27.67	Horizontal		
4824.000	34.19	8.90	39.04	40.70	44.75	74.00	-29.25	Horizontal		
5956.314	34.67	10.44	39.00	43.64	49.75	74.00	-24.25	Horizontal		
7236.000	36.40	10.69	38.15	40.61	49.55	74.00	-24.45	Horizontal		
9648.000	37.53	12.52	36.97	38.97	52.05	74.00	-21.95	Horizontal		
12226.070	38.74	14.37	38.53	39.04	53.62	74.00	-20.38	Horizontal		

Test mode:		802.11n(HT20)		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dBμV)	Emission Level (dBμV/m)	Limit (dBμV/m)	Over Limit (dB)	Polarization		
3770.567	32.98	7.73	38.60	42.60	44.71	74.00	-29.29	Vertical		
4874.000	34.28	8.97	39.05	41.77	45.97	74.00	-28.03	Vertical		
6016.949	34.71	10.54	38.99	43.38	49.64	74.00	-24.36	Vertical		
7311.000	36.37	10.72	38.07	40.46	49.48	74.00	-24.52	Vertical		
9748.000	37.55	12.58	36.92	37.70	50.91	74.00	-23.09	Vertical		
12085.370	38.65	14.49	38.39	38.42	53.17	74.00	-20.83	Vertical		
3647.151	32.63	7.69	38.54	43.35	45.13	74.00	-28.87	Horizontal		
4874.000	34.28	8.97	39.05	41.85	46.05	74.00	-27.95	Horizontal		
6095.816	34.78	10.44	38.94	43.92	50.20	74.00	-23.80	Horizontal		
7311.000	36.37	10.72	38.07	41.45	50.47	74.00	-23.53	Horizontal		
9748.000	37.55	12.58	36.92	38.46	51.67	74.00	-22.33	Horizontal		
12120.390	38.67	14.46	38.42	39.17	53.88	74.00	-20.12	Horizontal		



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Test mode:		802.11n(HT20)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3786.970	33.03	7.74	38.60	44.46	46.63	74.00	-27.37	Vertical		
4924.000	34.37	9.04	39.07	42.77	47.11	74.00	-26.89	Vertical		
6069.413	34.76	10.47	38.96	44.21	50.48	74.00	-23.52	Vertical		
7386.000	36.34	10.75	38.00	41.20	50.29	74.00	-23.71	Vertical		
9848.000	37.57	12.63	36.87	39.09	52.42	74.00	-21.58	Vertical		
12350.530	38.81	14.27	38.66	38.58	53.00	74.00	-21.00	Vertical		
3966.435	33.51	7.80	38.69	44.51	47.13	74.00	-26.87	Horizontal		
4924.000	34.37	9.04	39.07	43.20	47.54	74.00	-26.46	Horizontal		
6069.413	34.76	10.47	38.96	43.62	49.89	74.00	-24.11	Horizontal		
7386.000	36.34	10.75	38.00	41.94	51.03	74.00	-22.97	Horizontal		
9848.000	37.57	12.63	36.87	39.33	52.66	74.00	-21.34	Horizontal		
12015.620	38.61	14.55	38.32	38.59	53.43	74.00	-20.57	Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Lowest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3620.861	32.56	7.68	38.53	44.48	46.19	74.00	-27.81	Vertical		
4844.000	34.23	8.92	39.04	41.26	45.37	74.00	-28.63	Vertical		
6051.874	34.74	10.49	38.97	43.35	49.61	74.00	-24.39	Vertical		
7266.000	36.39	10.70	38.12	40.66	49.63	74.00	-24.37	Vertical		
9688.000	37.54	12.54	36.95	38.72	51.85	74.00	-22.15	Vertical		
12137.940	38.68	14.45	38.44	38.85	53.54	74.00	-20.46	Vertical		
3737.975	32.89	7.72	38.58	44.09	46.12	74.00	-27.88	Horizontal		
4844.000	34.23	8.92	39.04	43.00	47.11	74.00	-26.89	Horizontal		
6025.661	34.72	10.53	38.98	44.10	50.37	74.00	-23.63	Horizontal		
7266.000	36.39	10.70	38.12	41.43	50.40	74.00	-23.60	Horizontal		
9688.000	37.54	12.54	36.95	38.93	52.06	74.00	-21.94	Horizontal		
12314.840	38.79	14.30	38.62	39.37	53.84	74.00	-20.16	Horizontal		



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Test mode:		802.11n(HT40)		Test channel:		Middle		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3620.861	32.56	7.68	38.53	44.48	46.19	74.00	-27.81	Vertical		
4874.000	34.28	8.97	39.05	41.27	45.47	74.00	-28.53	Vertical		
6008.249	34.71	10.55	38.99	44.00	50.27	74.00	-23.73	Vertical		
7311.000	36.37	10.72	38.07	41.69	50.71	74.00	-23.29	Vertical		
9748.000	37.55	12.58	36.92	38.14	51.35	74.00	-22.65	Vertical		
12137.940	38.68	14.45	38.44	38.85	53.54	74.00	-20.46	Vertical		
3842.163	33.18	7.76	38.63	43.95	46.26	74.00	-27.74	Horizontal		
4874.000	34.28	8.97	39.05	42.63	46.83	74.00	-27.17	Horizontal		
5939.103	34.66	10.39	39.01	43.40	49.44	74.00	-24.56	Horizontal		
7311.000	36.37	10.72	38.07	40.90	49.92	74.00	-24.08	Horizontal		
9748.000	37.55	12.58	36.92	38.45	51.66	74.00	-22.34	Horizontal		
12279.260	38.77	14.33	38.59	38.58	53.09	74.00	-20.91	Horizontal		

Test mode:		802.11n(HT40)		Test channel:		Highest		Remark:		Peak
Frequency (MHz)	Antenna factors (dB/m)	Cable loss (dB)	Preamp factor (dB)	Reading Level (dB μ V)	Emission Level (dB μ V/m)	Limit (dB μ V/m)	Over Limit (dB)	Polarization		
3836.607	33.16	7.75	38.63	44.37	46.65	74.00	-27.35	Vertical		
4904.000	34.33	9.01	39.07	42.56	46.83	74.00	-27.17	Vertical		
6104.642	34.79	10.42	38.93	44.09	50.37	74.00	-23.63	Vertical		
7356.000	36.36	10.74	38.03	41.23	50.30	74.00	-23.70	Vertical		
9808.000	37.56	12.61	36.89	39.41	52.69	74.00	-21.31	Vertical		
12208.390	38.73	14.39	38.52	39.11	53.71	74.00	-20.29	Vertical		
3797.945	33.06	7.74	38.61	45.04	47.23	74.00	-26.77	Horizontal		
4904.000	34.33	9.01	39.07	43.20	47.47	74.00	-26.53	Horizontal		
6078.201	34.76	10.46	38.95	44.31	50.58	74.00	-23.42	Horizontal		
7356.000	36.36	10.74	38.03	42.33	51.40	74.00	-22.60	Horizontal		
9808.000	37.56	12.61	36.89	40.19	53.47	74.00	-20.53	Horizontal		
12279.260	38.77	14.33	38.59	38.89	53.40	74.00	-20.60	Horizontal		



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:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics 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) As shown in this section, for frequencies above 1GHz, 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. So, only the peak measurements were shown in the report.

6.9 Restricted bands around fundamental frequency

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

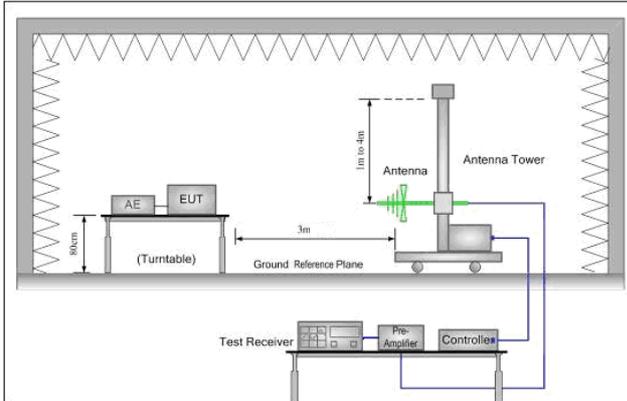


Figure 1. 30MHz to 1GHz

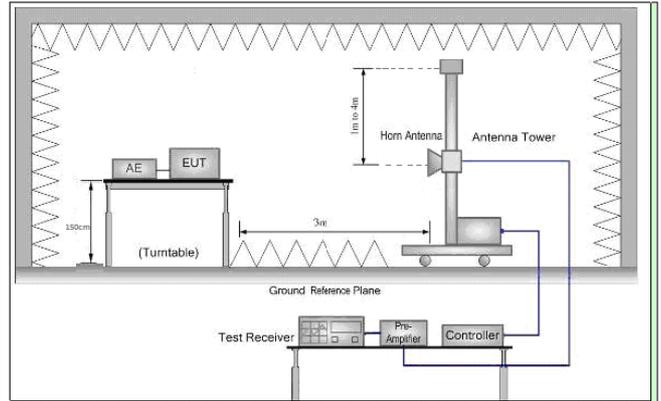


Figure 2. Above 1 GHz



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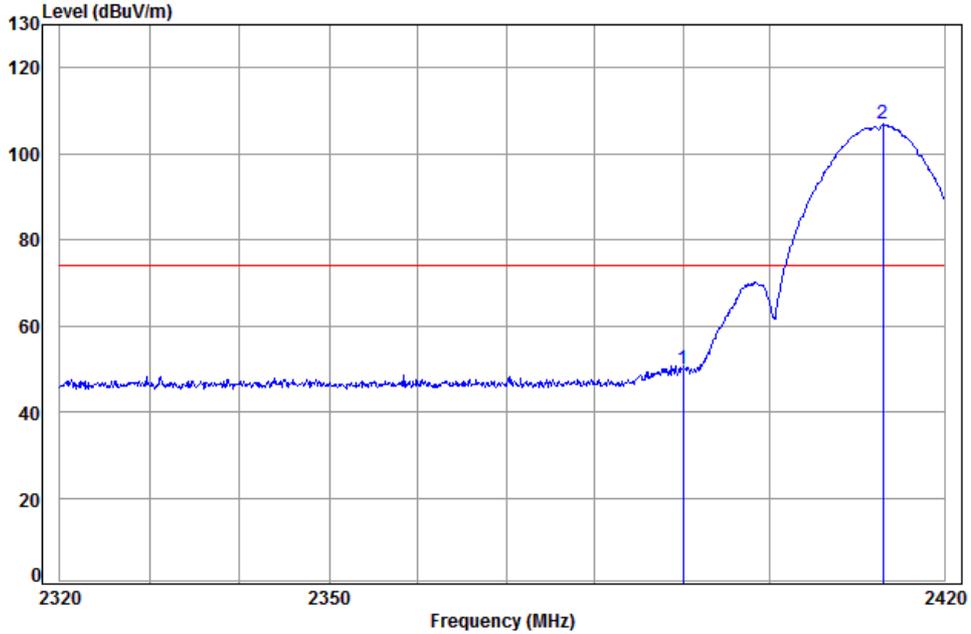
<p>Test Procedure:</p>	<ol style="list-style-type: none"> a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 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 transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each 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.
<p>Exploratory Test Mode:</p>	<p>Transmitting with all kind of modulations, data rates. Transmitting mode, Transmitting mode.</p>
<p>Final Test Mode:</p>	<p>Pretest the EUT at Transmitting mode and Charge +Transmitting mode, found the Charge +Transmitting mode which it is worse case Through Pre-scan, find the 1Mbps of rate is the worst case of 802.11b; 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.</p>
<p>Instruments Used:</p>	<p>Refer to section 5.10 for details</p>
<p>Test Results:</p>	<p>Pass</p>



Test plot as follows:

Antenna 0

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

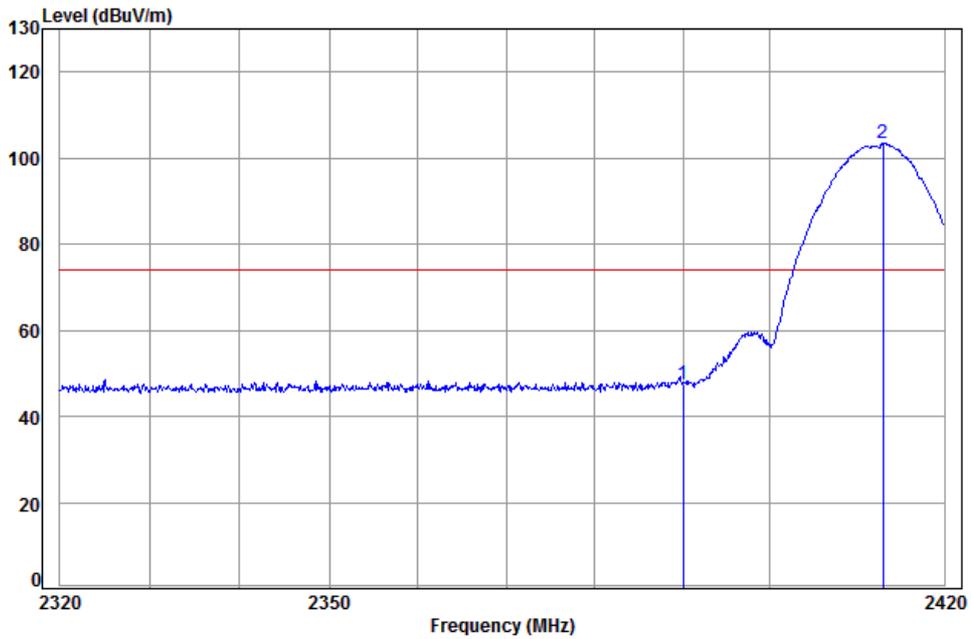
Mode: : 2412 Bandedge

: WIFI-B A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	53.67	74.00	-24.05
2 pp	2412.964	5.35	29.15	38.15	110.46	74.00	32.81



Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 8522RG

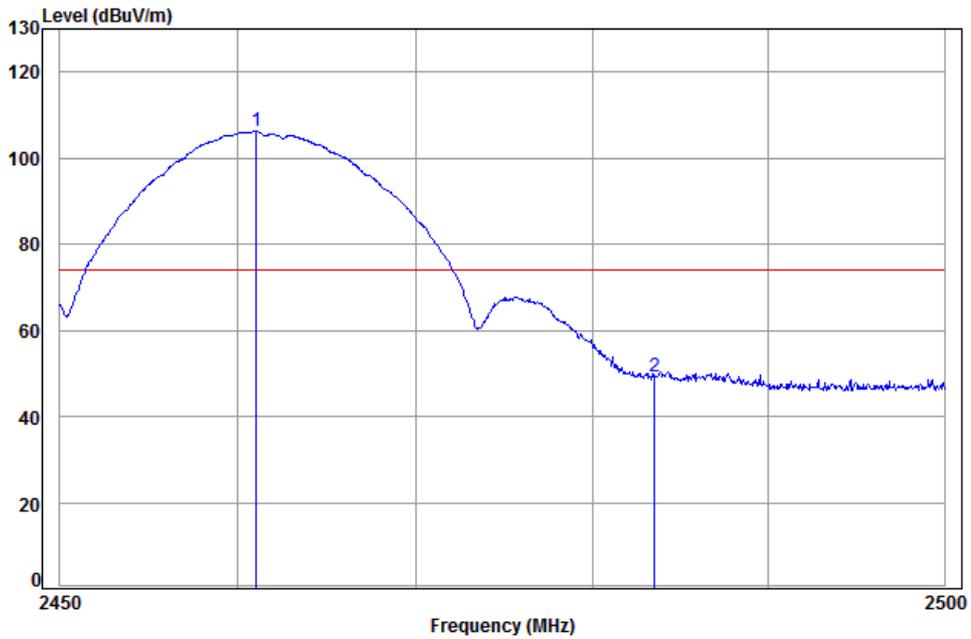
Mode: : 2412 Bandedge

: WIFI-B A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	51.25	47.53	74.00 -26.47
2	pp 2412.964	5.35	29.15	38.15	107.14	103.49	74.00 29.49



Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

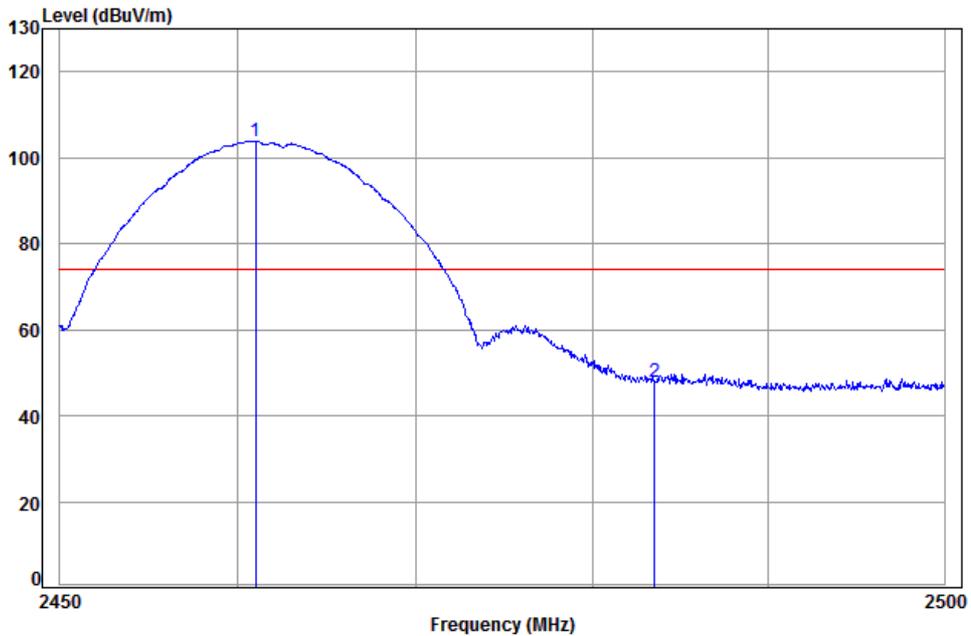
Mode: : 2462 Bandedge

: WIFI-B A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2461.013	5.39	29.29	38.15	109.70	74.00	32.23
2	2483.500	5.41	29.35	38.15	52.77	74.00	-24.62



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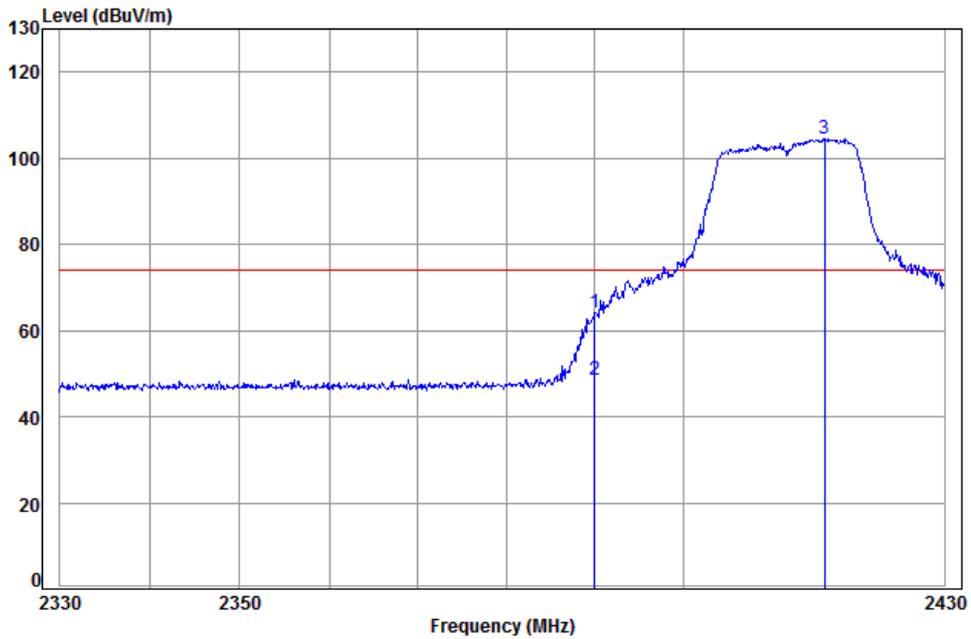


Condition: 3m HORIZONTAL
Job No: : 8522RG
Mode: : 2462 Bandedge
: WIFI-B A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2460.963	5.39	29.29	38.15	107.41	74.00	29.94
2	2483.500	5.41	29.35	38.15	51.14	74.00	-26.25



Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-G A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	67.70	74.00	-10.02
2 av	2390.000	5.34	29.08	38.14	52.14	54.00	-5.58
3 pp	2416.253	5.36	29.16	38.15	108.12	74.00	30.49

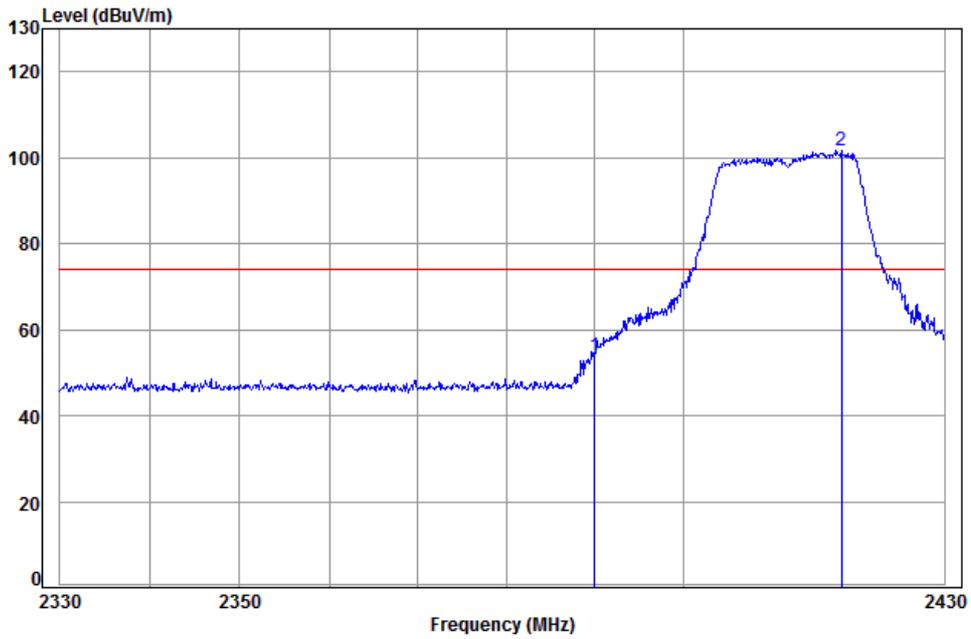


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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 8522RG

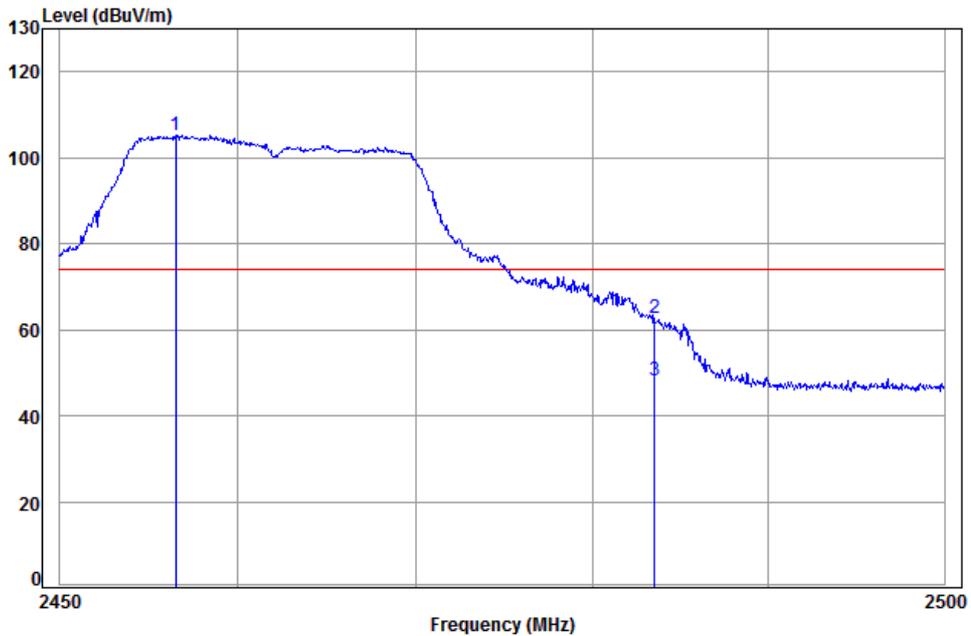
Mode: : 2412 Bandedge

: WIFI-G A=0

	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	
1	2390.000	5.34	29.08	38.14	57.69	53.97	74.00	-20.03
2	pp 2418.183	5.36	29.16	38.15	105.26	101.63	74.00	27.63



Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-G A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2456.493	5.39	29.27	38.15	108.77	74.00	31.28
2	2483.500	5.41	29.35	38.15	66.00	74.00	-11.39
3 av	2483.500	5.41	29.35	38.15	51.54	54.00	-5.85

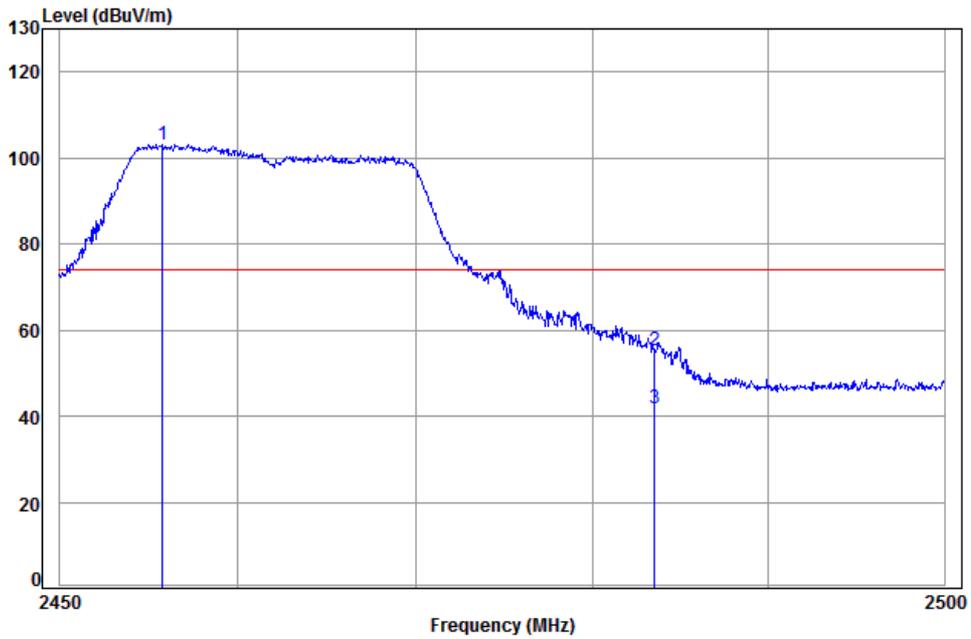


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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
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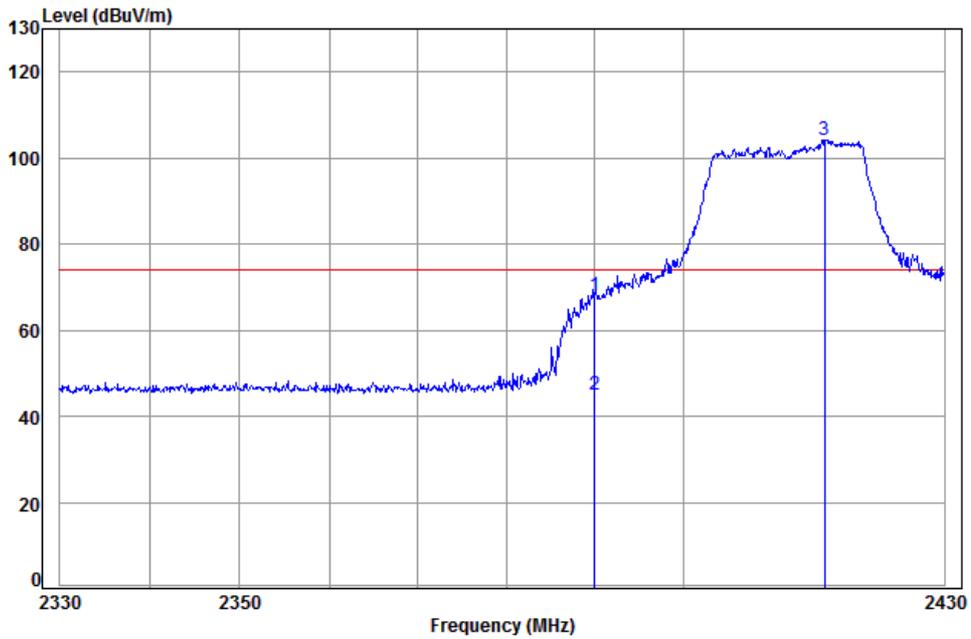


Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2462 Bandedge
 : WIFI-G A=0

	Freq	Cable Loss Factor	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2455.748	5.39	29.27	38.15	106.73	74.00	29.24
2	2483.500	5.41	29.35	38.15	58.82	74.00	-18.57
3 av	2483.500	5.41	29.35	38.15	45.34	54.00	-12.05



Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-N20 A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	71.84	74.00	-5.88
2 av	2390.000	5.34	29.08	38.14	48.79	54.00	-8.93
3 pp	2416.253	5.36	29.16	38.15	107.91	74.00	30.28

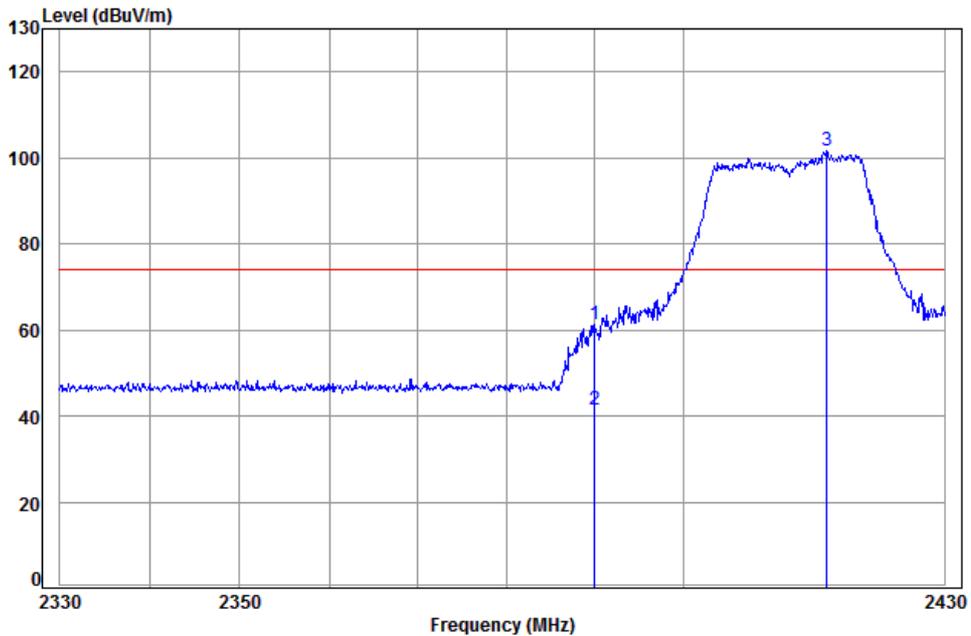


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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-N20 A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	65.12	74.00	-12.60
2 av	2390.000	5.34	29.08	38.14	45.09	54.00	-12.63
3 pp	2416.457	5.36	29.16	38.15	105.23	74.00	27.60

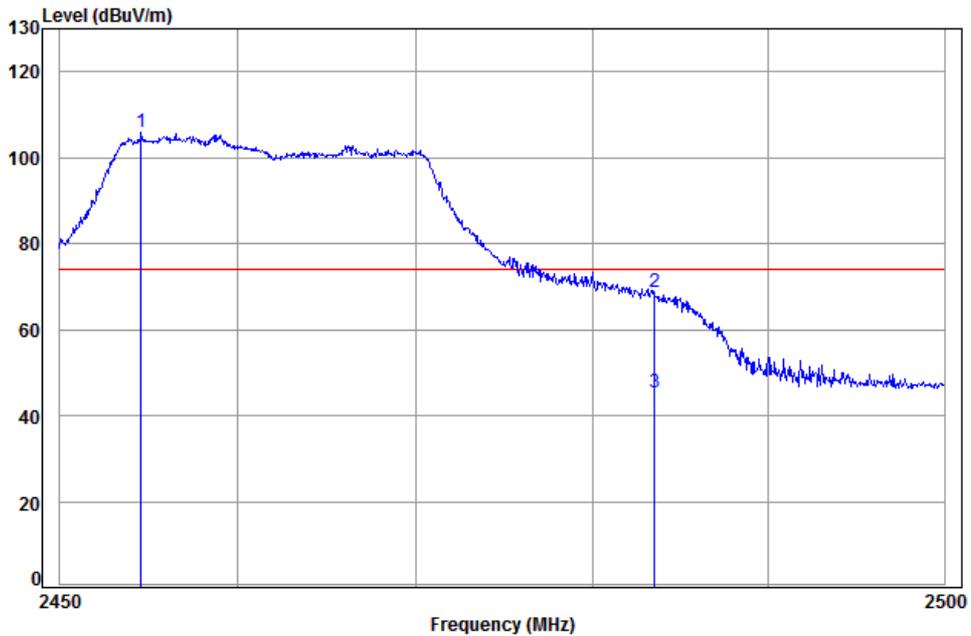


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-N20 A=0

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	
1 pp 2454.558	5.39	29.27	38.15	109.25	105.76	74.00	31.76
2 2483.500	5.41	29.35	38.15	72.06	68.67	74.00	-5.33
3 av 2483.500	5.41	29.35	38.15	48.72	45.33	54.00	-8.67

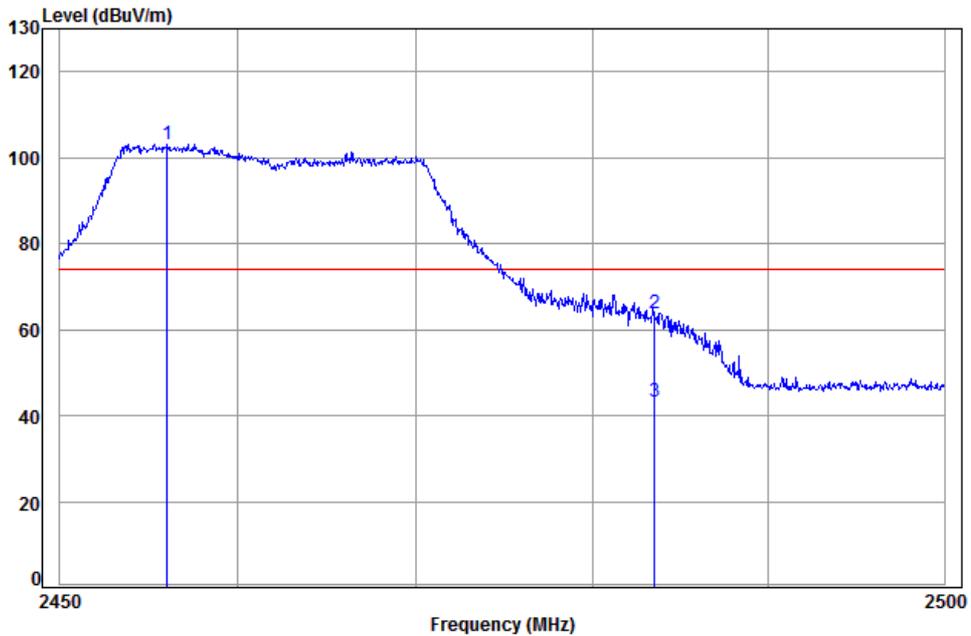


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2462 Bandedge
 : WIFI-N20 A=0

	Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	
1 pp 2455.996	5.39	29.27	38.15	106.52	103.03	74.00	29.03
2 2483.500	5.41	29.35	38.15	67.05	63.66	74.00	-10.34
3 av 2483.500	5.41	29.35	38.15	46.46	43.07	54.00	-10.93

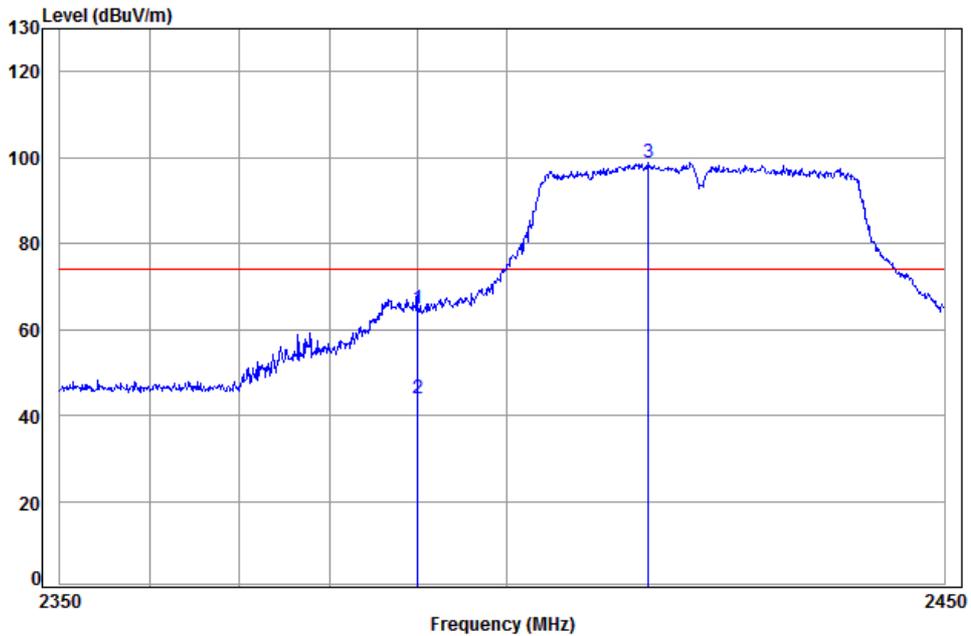


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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2422 Bandedge

: WIFI-N40 A=0

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	2390.000	5.34	29.08	38.14	68.66	64.94	74.00	-9.06
2 av	2390.000	5.34	29.08	38.14	47.51	43.79	54.00	-10.21
3 pp	2416.135	5.36	29.16	38.15	102.36	98.73	74.00	24.73

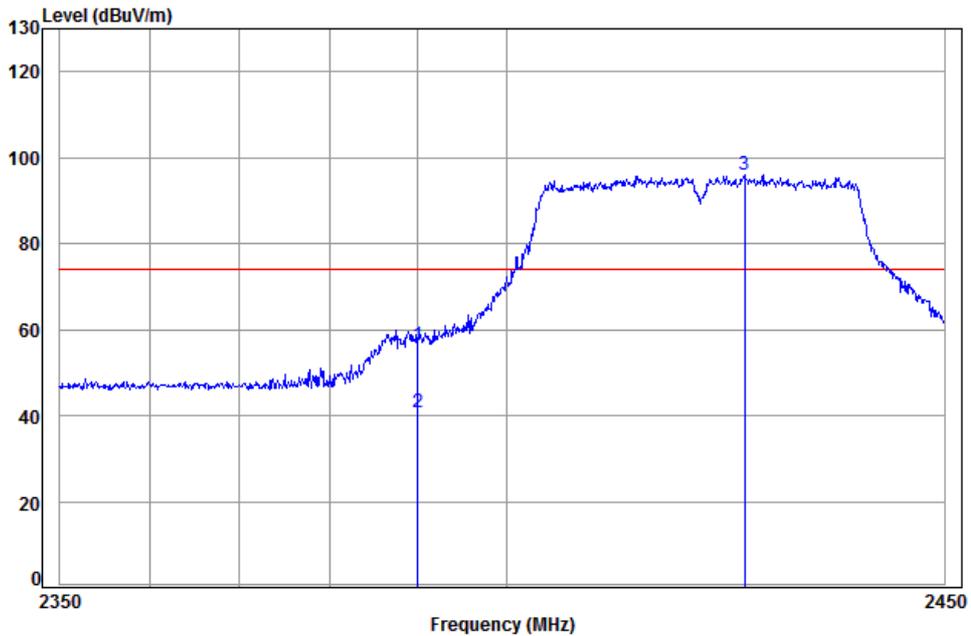


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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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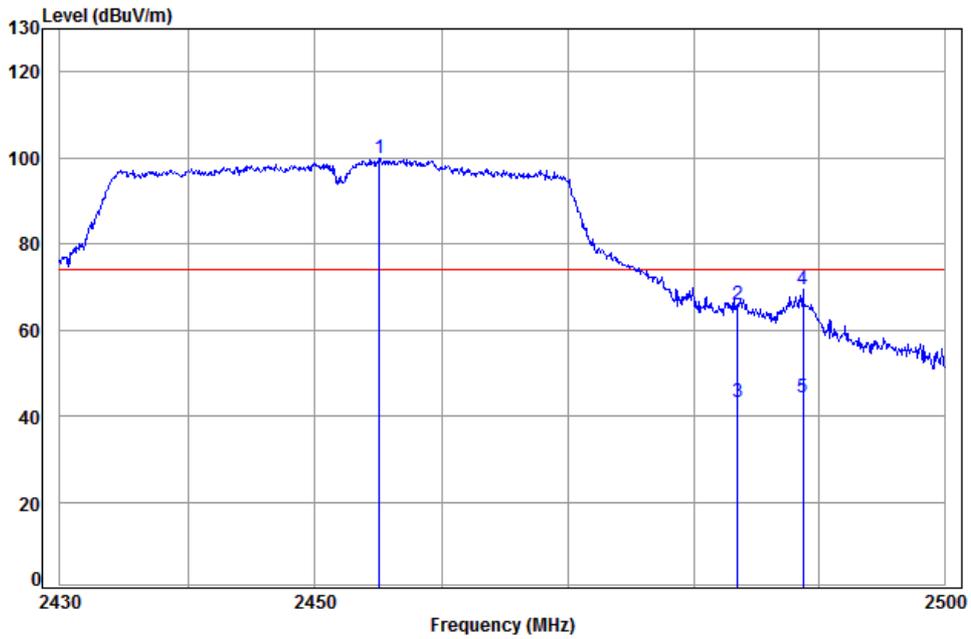


Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2422 Bandedge
 : WIFI-N40 A=0

	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
1	2390.000	5.34	29.08	38.14	59.87	56.15	74.00 -17.85
2 av	2390.000	5.34	29.08	38.14	44.60	40.88	54.00 -13.12
3 pp	2427.034	5.37	29.19	38.15	99.61	96.02	74.00 22.02



Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

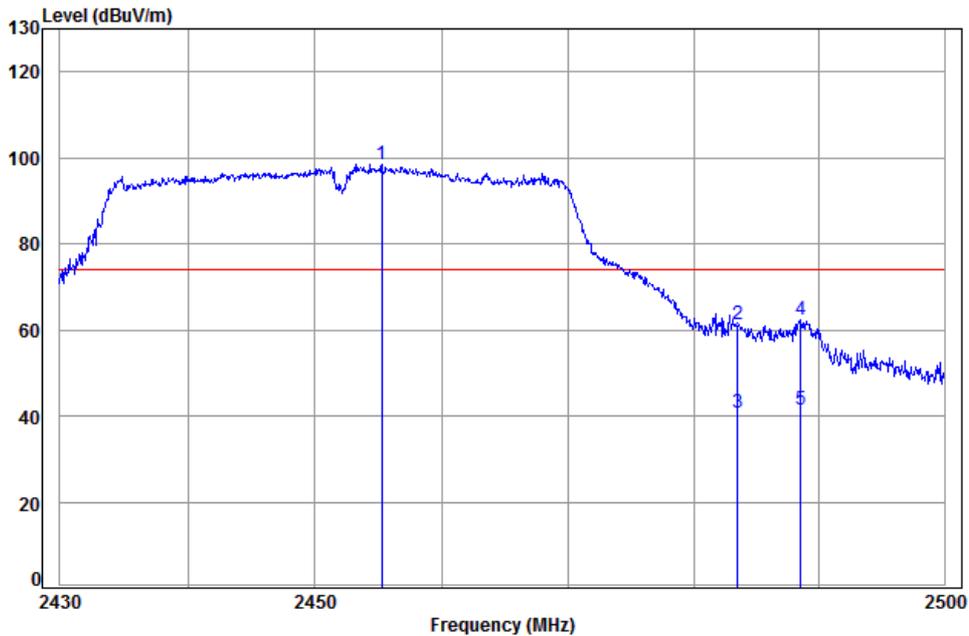
Mode: : 2452 Bandedge

: WIFI-N40 A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2455.041	5.39	29.27	38.15	103.50	100.01	74.00 26.01
2	2483.500	5.41	29.35	38.15	69.43	66.04	74.00 -7.96
3	2483.500	5.41	29.35	38.15	46.72	43.33	54.00 -10.67
4	2488.666	5.41	29.37	38.15	72.95	69.58	74.00 -4.42
5 av	2488.666	5.41	29.37	38.15	47.68	44.31	54.00 -9.69



Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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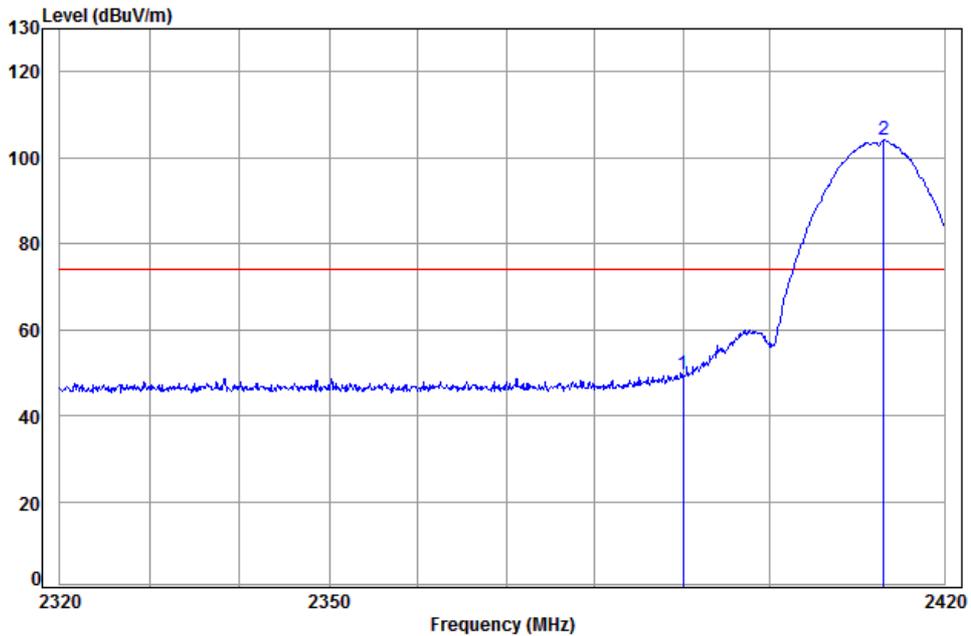
Condition: 3m HORIZONTAL
Job No: : 8522RG
Mode: : 2452 Bandedge
: WIFI-N40 A=0

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2455.250	5.39	29.27	38.15	102.08	74.00	24.59
2	2483.500	5.41	29.35	38.15	64.70	74.00	-12.69
3	2483.500	5.41	29.35	38.15	44.17	54.00	-13.22
4	2488.525	5.41	29.37	38.15	65.81	74.00	-11.56
5 av	2488.525	5.41	29.37	38.15	44.64	54.00	-12.73



Antenna 1

Worse case mode:	802.11b	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-B

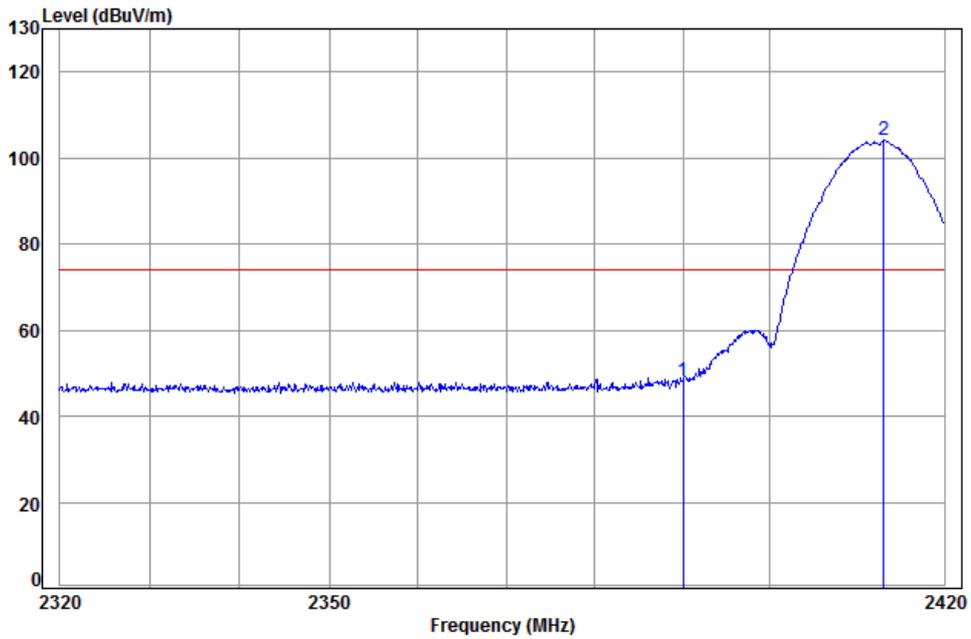
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	53.38	49.66	74.00	-24.34
2	pp 2413.065	5.35	29.15	38.15	107.66	104.01	74.00	30.01



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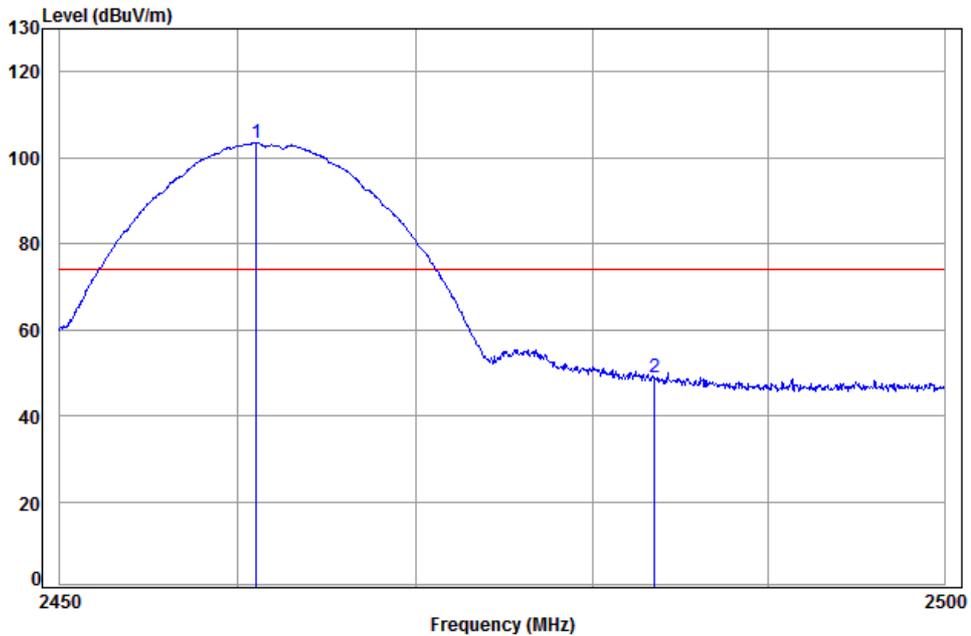


Condition: 3m HORIZONTAL
Job No: : 8522RG
Mode: : 2412 Band edge
: WIFI-B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	51.78	48.06	74.00	-25.94
2 pp	2413.065	5.35	29.15	38.15	107.74	104.09	74.00	30.09



Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

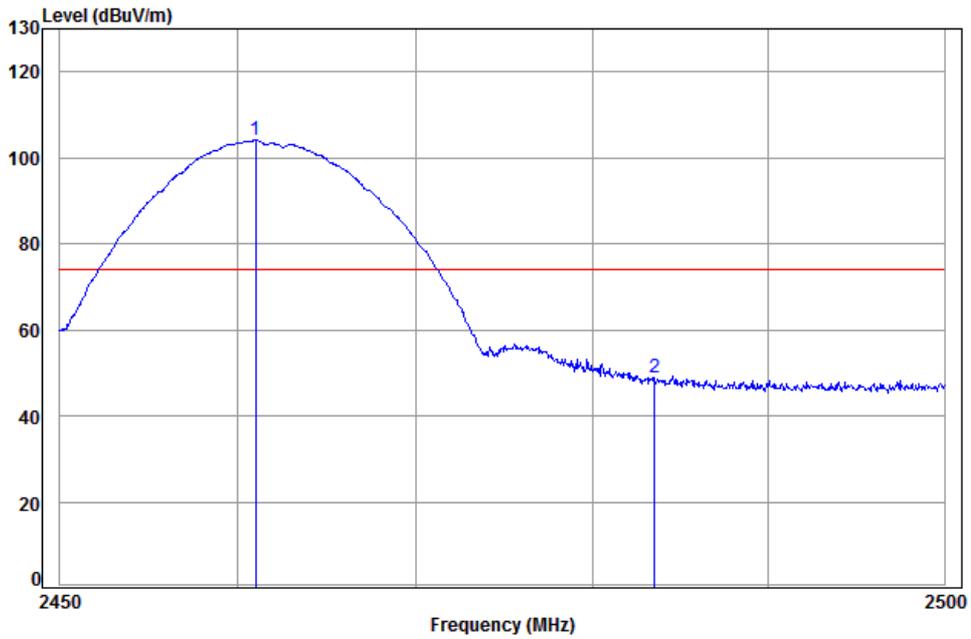
Mode: : 2462 Band edge

: WIFI-B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2461.013	5.39	29.29	38.15	107.00	103.53	74.00	29.53
2	2483.500	5.41	29.35	38.15	52.32	48.93	74.00	-25.07



Worse case mode:	802.11b	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m Horizontal
Job No: : 8522RG
Mode: : 2462 Band edge
: WIFI-B

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2460.963	5.39	29.29	38.15	107.57	104.10	74.00	30.10
2	2483.500	5.41	29.35	38.15	52.38	48.99	74.00	-25.01

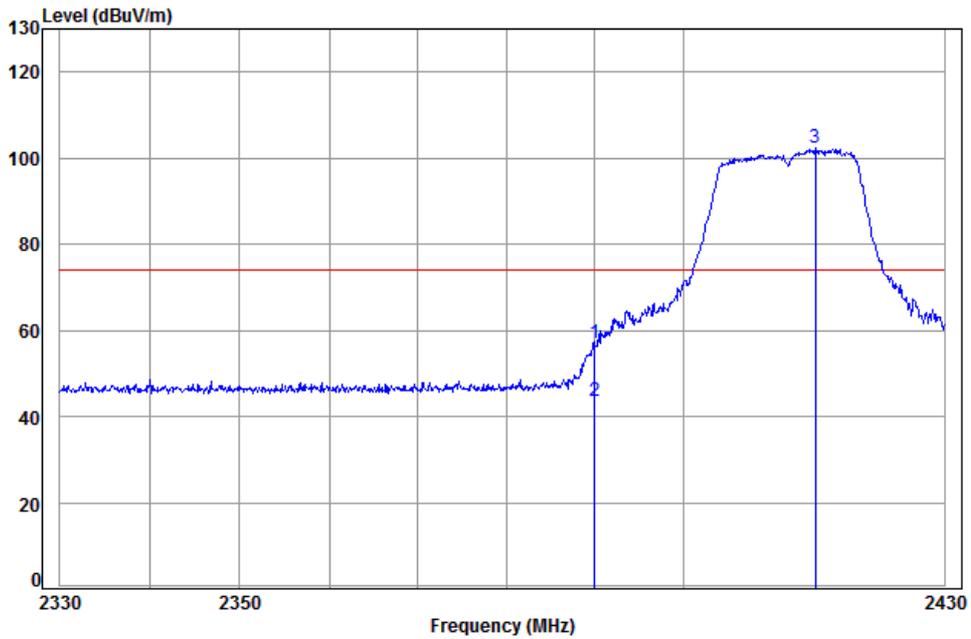


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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	60.82	57.10	74.00	-16.90
2	av 2390.000	5.34	29.08	38.14	47.41	43.69	54.00	-10.31 Average
3	pp 2415.137	5.36	29.15	38.15	105.89	102.25	74.00	28.25

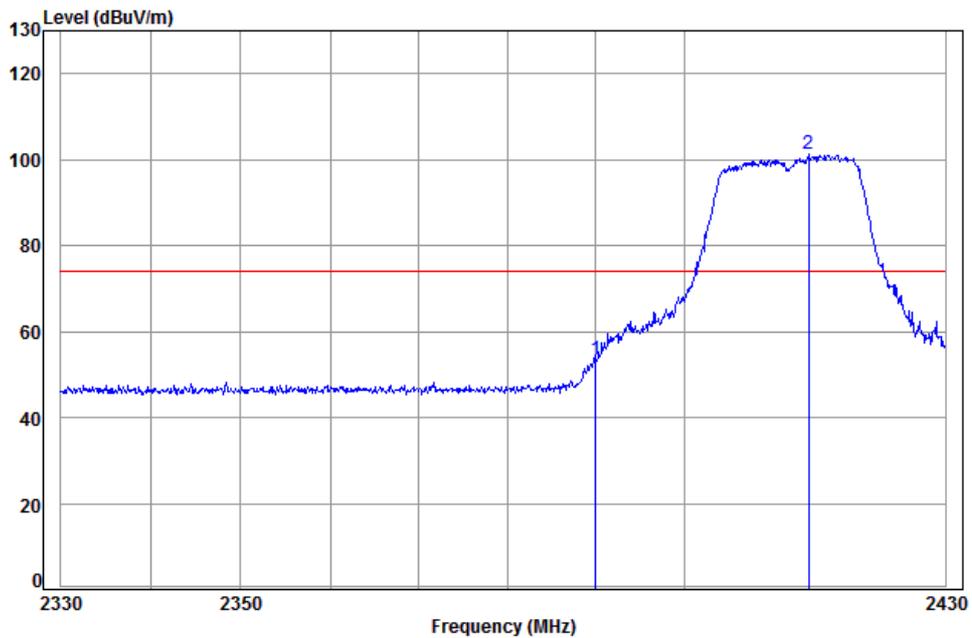


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Worse case mode:	802.11g	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2412 Band edge
 : WIFI-G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	57.24	53.52	74.00	-20.48
2	pp 2414.325	5.36	29.15	38.15	104.78	101.14	74.00	27.14

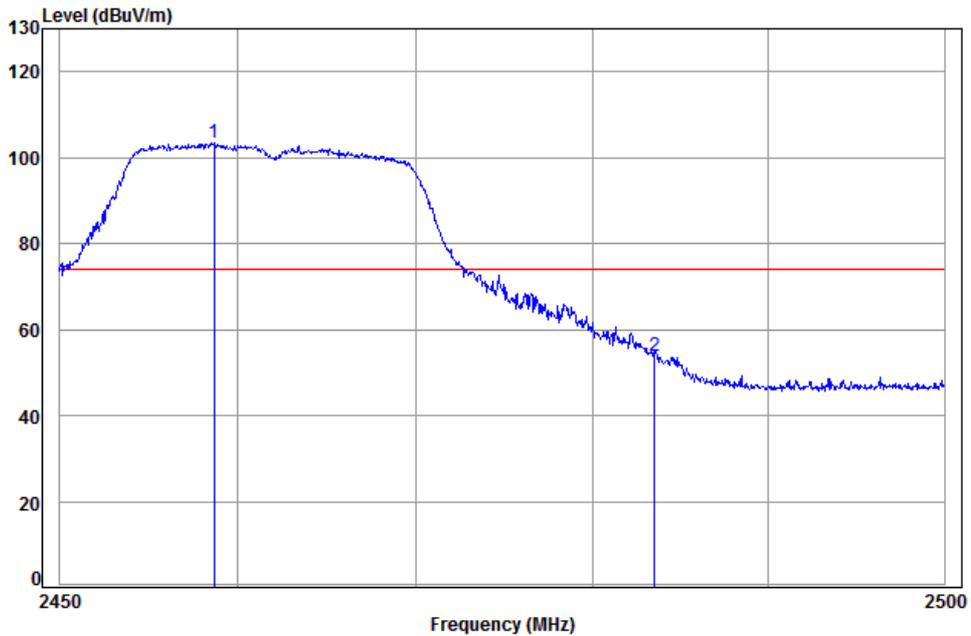


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Shenzhen Branch**

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Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

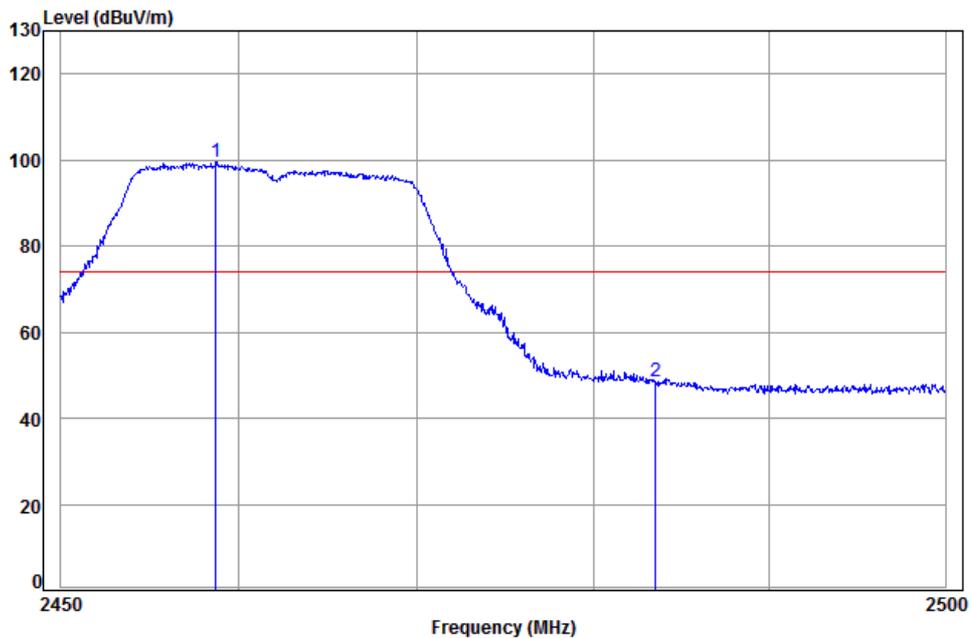
Mode: : 2462 Band edge

: WIFI-G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2458.628	5.39	29.28	38.15	107.05	103.57	74.00	29.57
2	2483.500	5.41	29.35	38.15	57.25	53.86	74.00	-20.14



Worse case mode:	802.11g	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL
Job No: : 8522RG
Mode: : 2462 Band edge
: WIFI-G

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2458.677	5.39	29.28	38.15	103.19	99.71	74.00	25.71
2	2483.500	5.41	29.35	38.15	51.96	48.57	74.00	-25.43

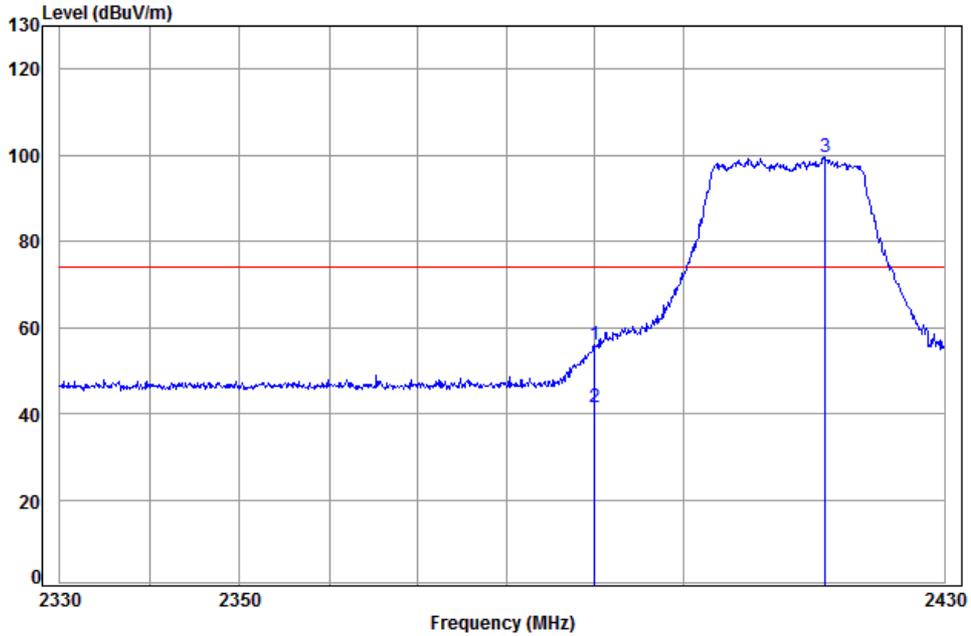


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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Band edge

: WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2390.000	5.34	29.08	38.14	59.67	55.95	74.00	-18.05	
2	av 2390.000	5.34	29.08	38.14	45.28	41.56	54.00	-12.44	Average
3	pp 2416.355	5.36	29.16	38.15	103.29	99.66	74.00	25.66	

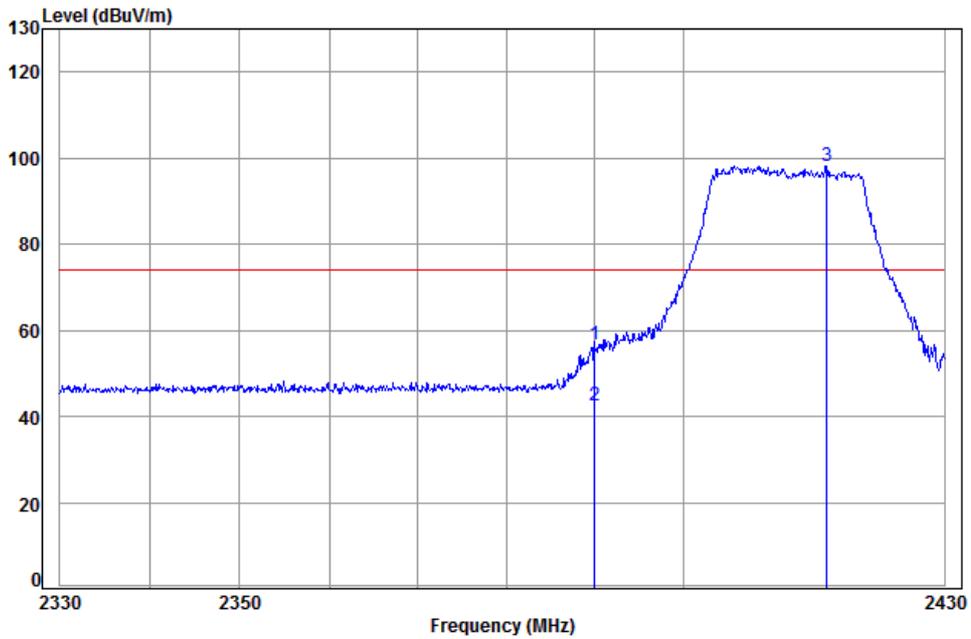


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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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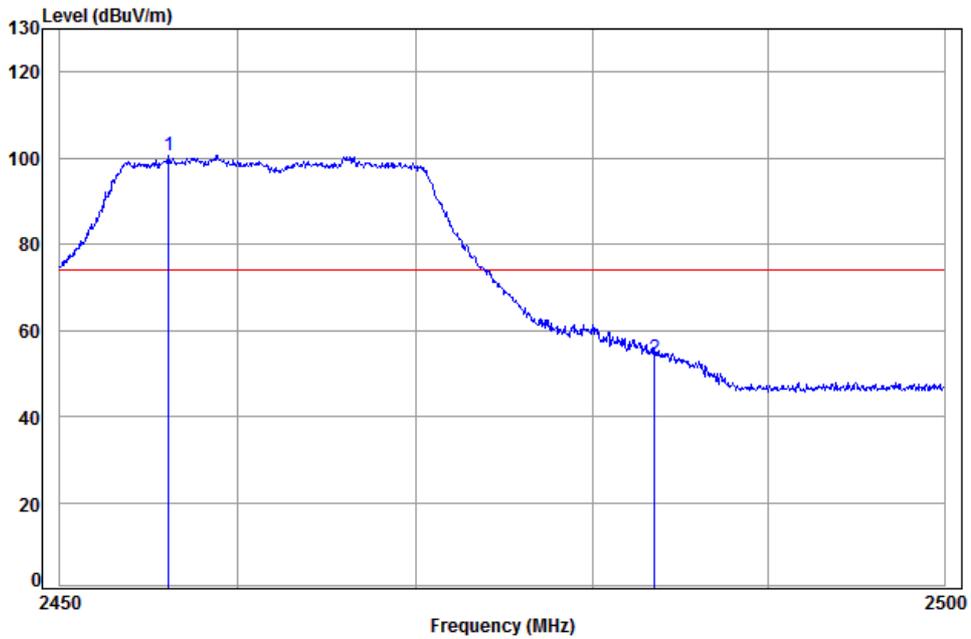


Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2412 Band edge
 : WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	60.30	56.58	74.00	-17.42
2	av 2390.000	5.34	29.08	38.14	46.28	42.56	54.00	-11.44 Average
3	pp 2416.457	5.36	29.16	38.15	101.82	98.19	74.00	24.19



Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Band edge

: WIFI-N20

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2456.096	5.39	29.27	38.15	104.01	100.52	74.00	26.52
2	2483.500	5.41	29.35	38.15	56.81	53.42	74.00	-20.58

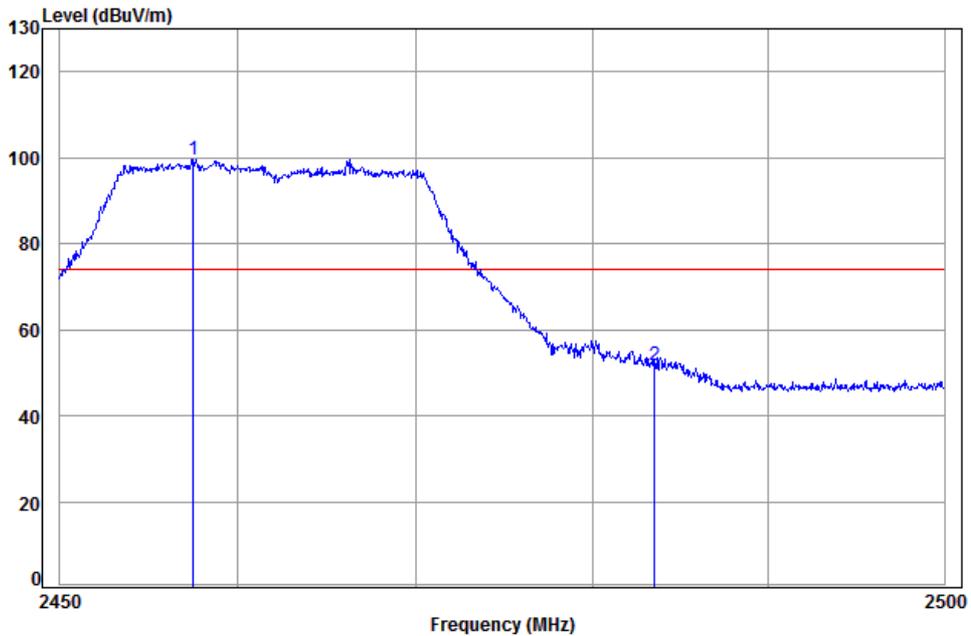


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2462 Band edge
 : WIFI-N20

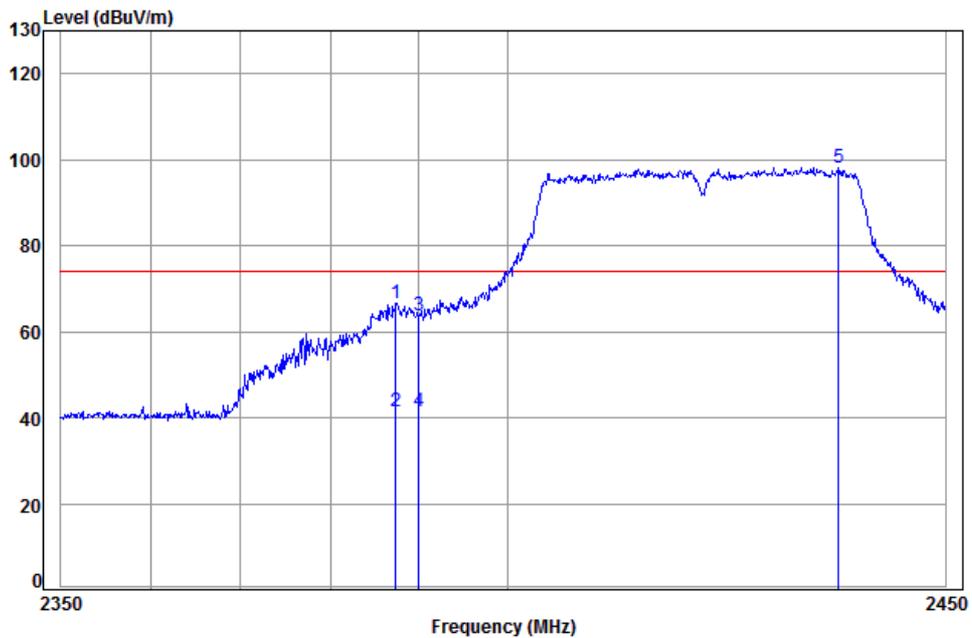
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2457.485	5.39	29.28	38.15	102.95	99.47	74.00	25.47
2	2483.500	5.41	29.35	38.15	55.15	51.76	74.00	-22.24



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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL
Job No: : 8522RG
Mode: : 2422 Bandedge
: WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2387.410	5.34	29.07	38.14	70.29	66.56	74.00	-7.44
2 av	2387.410	5.34	29.07	38.14	45.22	41.49	54.00	-12.51 Average
3	2390.000	5.34	29.08	38.14	67.47	63.75	74.00	-10.25
4	2390.000	5.34	29.08	38.14	45.20	41.48	54.00	-12.52 Average
5 pp	2437.779	5.37	29.22	38.15	101.77	98.21	74.00	24.21

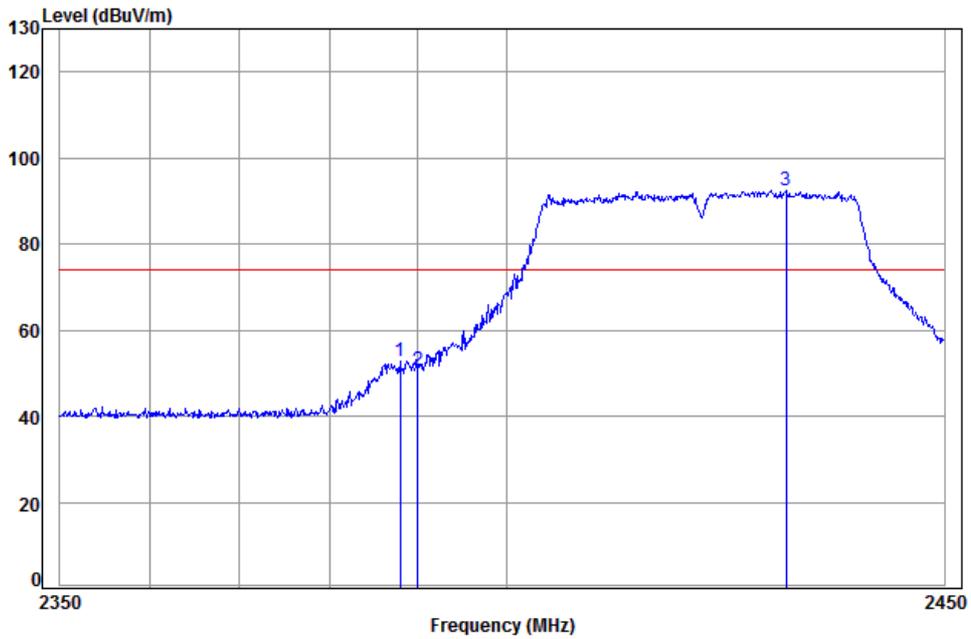


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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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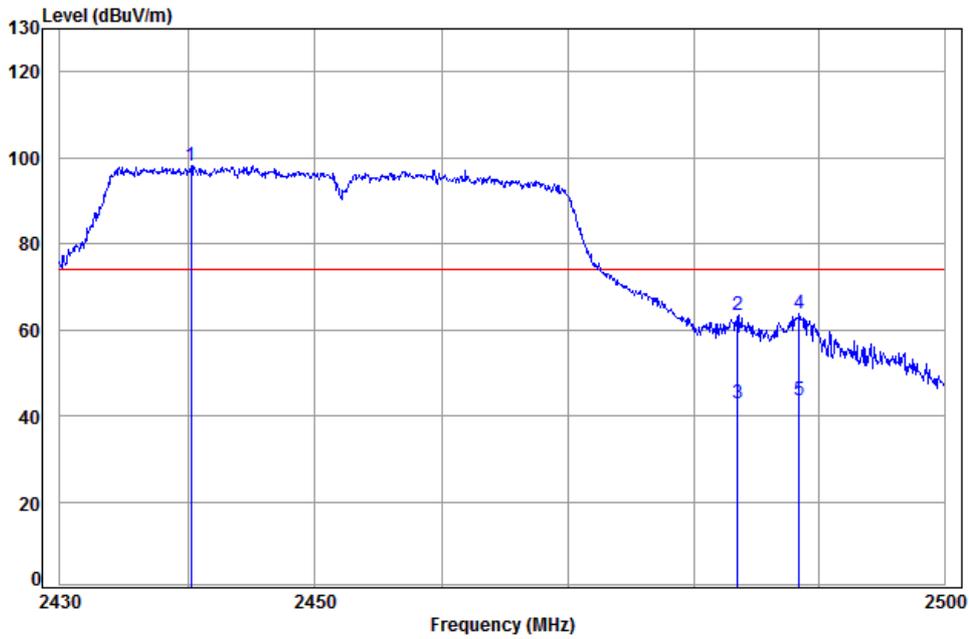


Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2422 Bandedge
 : WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1	2388.008	5.34	29.07	38.14	56.55	52.82	74.00	-21.18
2	2390.000	5.34	29.08	38.14	54.41	50.69	74.00	-23.31
3 pp	2431.792	5.37	29.20	38.15	96.09	92.51	74.00	18.51



Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2452 Bandedge

: WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2440.235	5.38	29.23	38.15	101.52	97.98	74.00	23.98
2	2483.500	5.41	29.35	38.15	66.67	63.28	74.00	-10.72
3	2483.500	5.41	29.35	38.15	46.32	42.93	54.00	-11.07 Average
4	2488.383	5.41	29.37	38.15	67.22	63.85	74.00	-10.15
5 av	2488.383	5.41	29.37	38.15	46.90	43.53	54.00	-10.47 Average

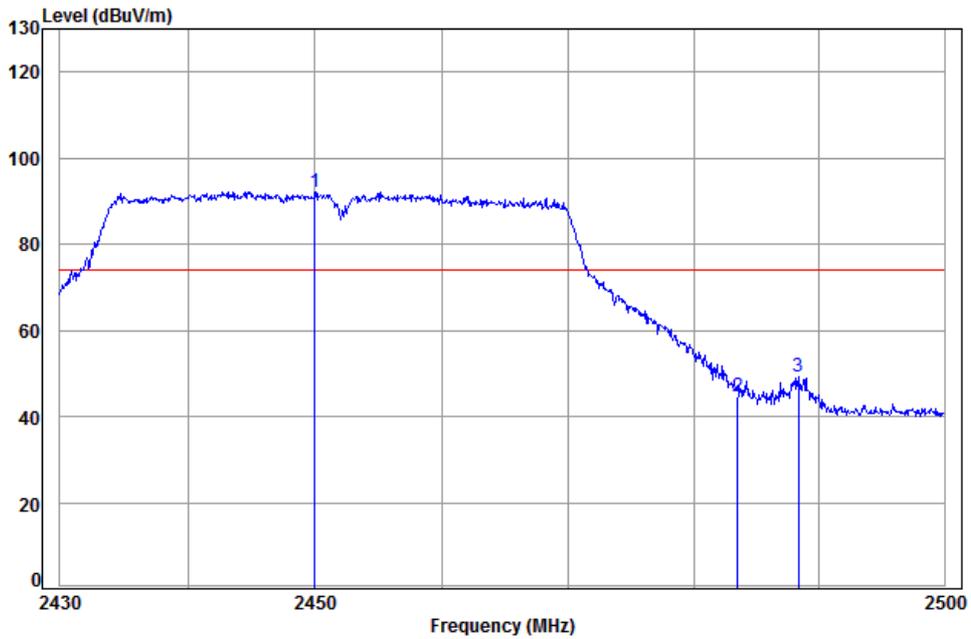


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Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2452 Bandedge

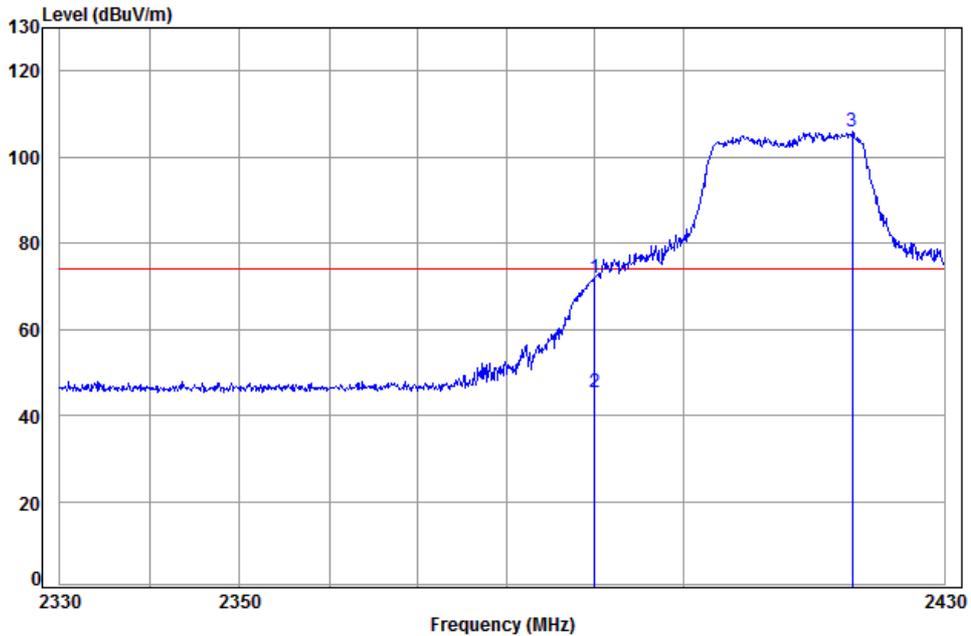
: WIFI-N40

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2449.957	5.38	29.26	38.15	95.76	92.25	74.00	18.25
2	2483.500	5.41	29.35	38.15	47.97	44.58	74.00	-29.42
3	2488.313	5.41	29.37	38.15	52.51	49.14	74.00	-24.86



MIMO

Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-N20 A=4

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	75.47	74.00	-2.25
2 av	2390.000	5.34	29.08	38.14	49.10	54.00	-8.62
3 pp	2419.403	5.36	29.17	38.15	109.70	74.00	32.08

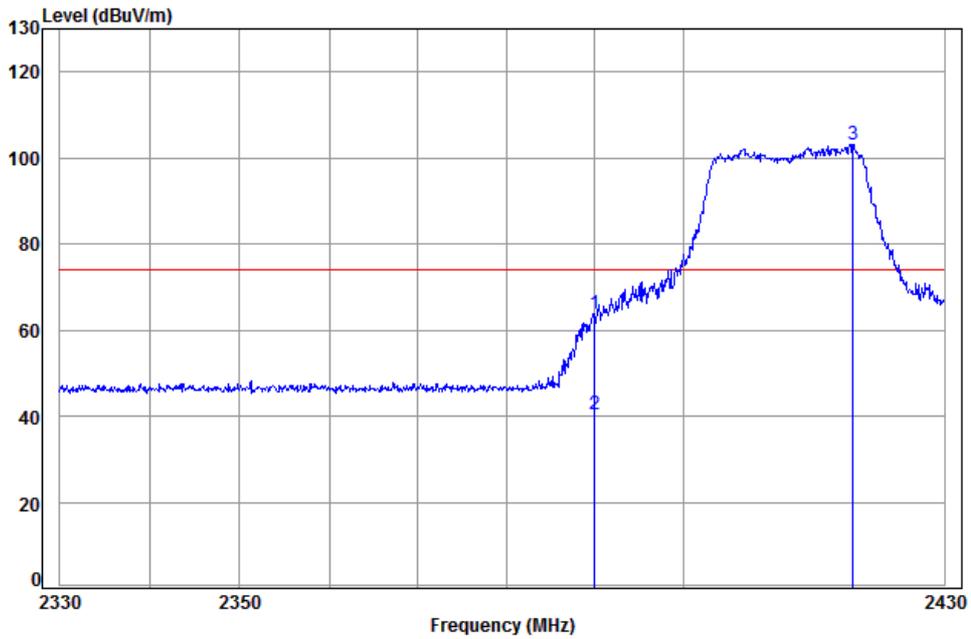


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Worse case mode:	802.11n(HT20)	Test channel:	Lowest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2412 Bandedge

: WIFI-N20 A=4

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	67.51	74.00	-10.21
2 av	2390.000	5.34	29.08	38.14	44.15	54.00	-13.57
3 pp	2419.505	5.36	29.17	38.15	106.65	74.00	29.03

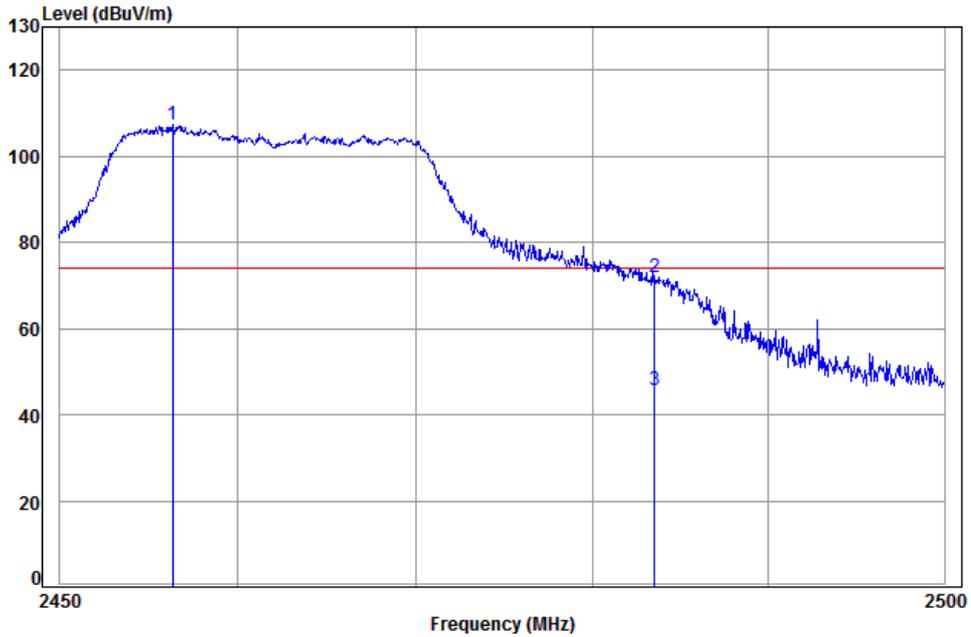


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-N20 A=4

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 pp	2456.294	5.39	29.27	38.15	110.68	107.19	74.00	33.19
2	2483.500	5.41	29.35	38.15	75.27	71.88	74.00	-2.12
3 av	2483.500	5.41	29.35	38.15	49.24	45.85	54.00	-8.15

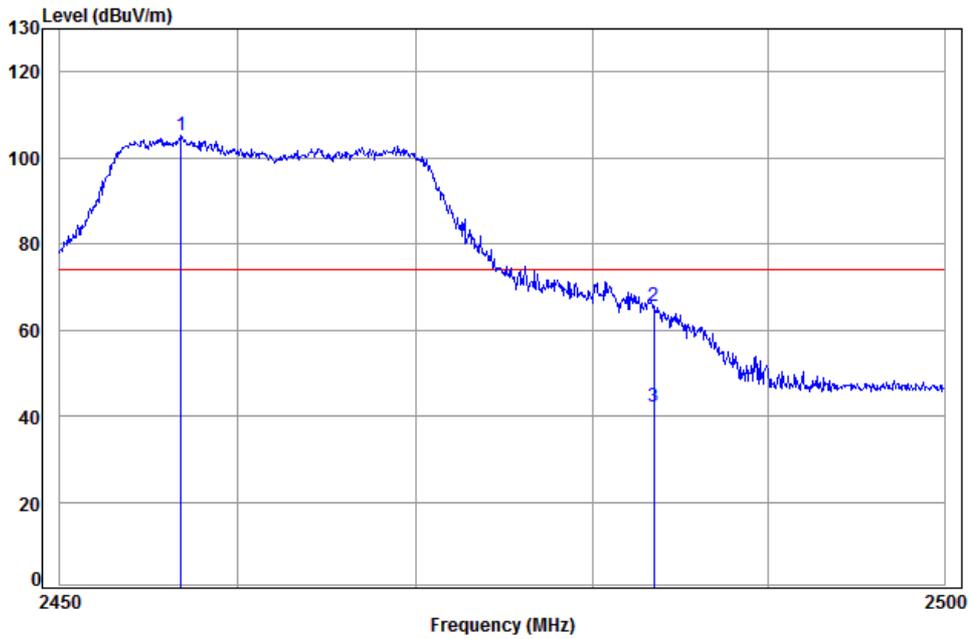


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Worse case mode:	802.11n(HT20)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL

Job No: : 8522RG

Mode: : 2462 Bandedge

: WIFI-N20 A=4

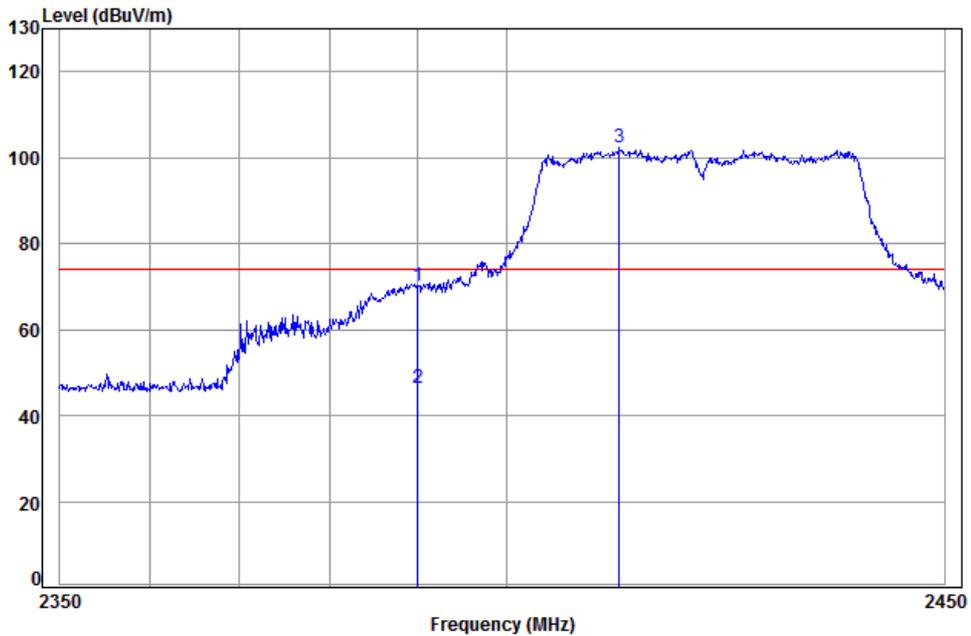
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2456.791	5.39	29.27	38.15	108.53	74.00	31.04
2	2483.489	5.41	29.35	38.15	68.77	74.00	-8.62
3 av	2483.489	5.41	29.35	38.15	45.48	54.00	-11.91



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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

Mode: : 2422 Bandedge

: WIFI-N40 A=4

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	2390.000	5.34	29.08	38.14	73.72	70.00	-4.00
2 av	2390.000	5.34	29.08	38.14	50.23	54.00	-7.49
3 pp	2412.815	5.35	29.15	38.15	106.03	74.00	28.38

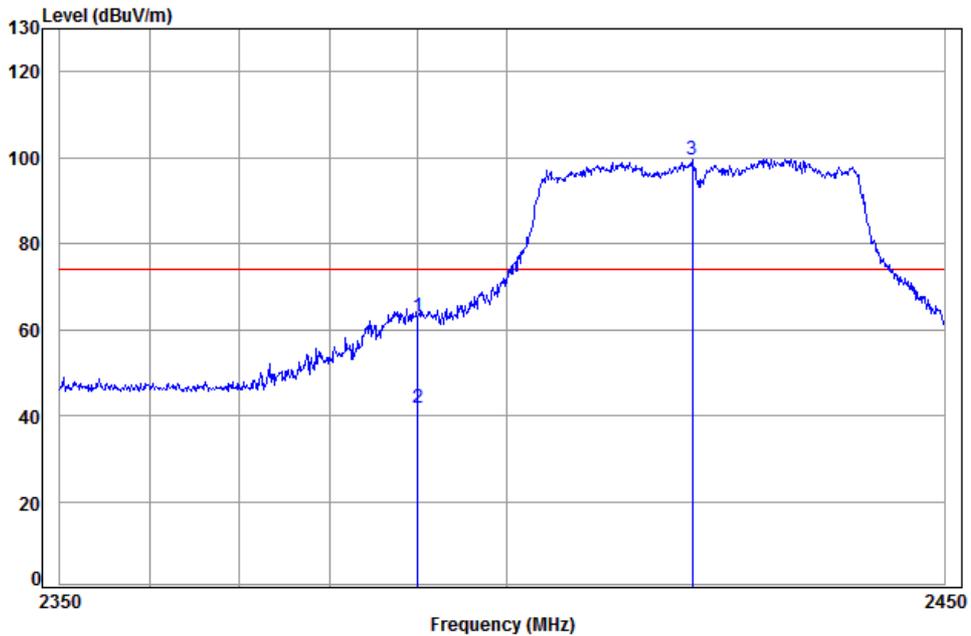


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Worse case mode:	802.11n(HT40)	Test channel:	Lowest	Remark:	Peak	Horizontal
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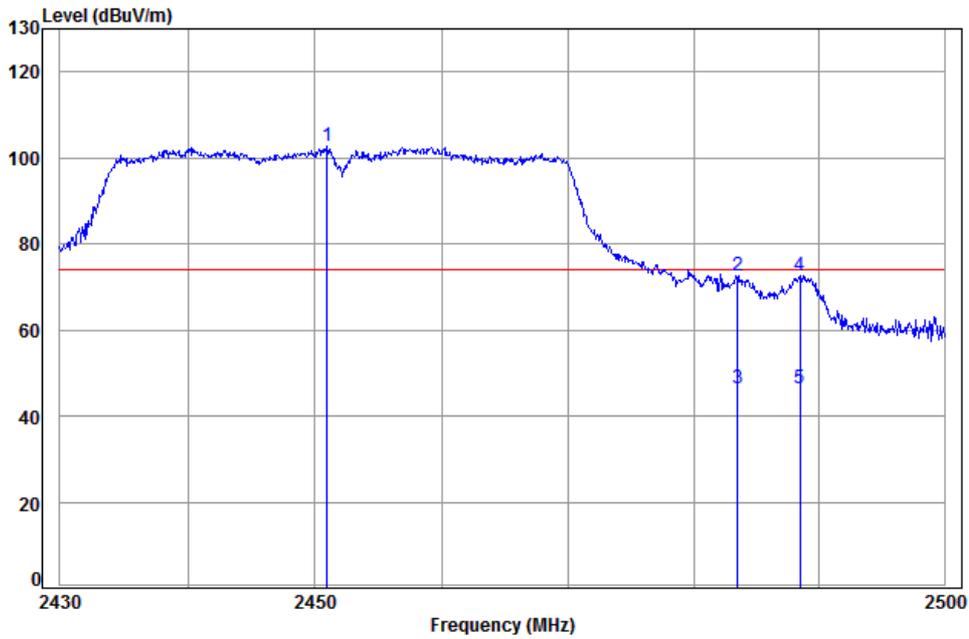


Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2422 Bandedge
 : WIFI-N40 A=4

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Limit		
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m		
1	2390.000	5.34	29.08	38.14	66.69	62.97	74.00	-11.03
2	av 2390.000	5.34	29.08	38.14	45.43	41.71	54.00	-12.29
3	pp 2421.074	5.36	29.17	38.15	103.30	99.68	74.00	25.68



Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Vertical
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Condition: 3m VERTICAL

Job No: : 8522RG

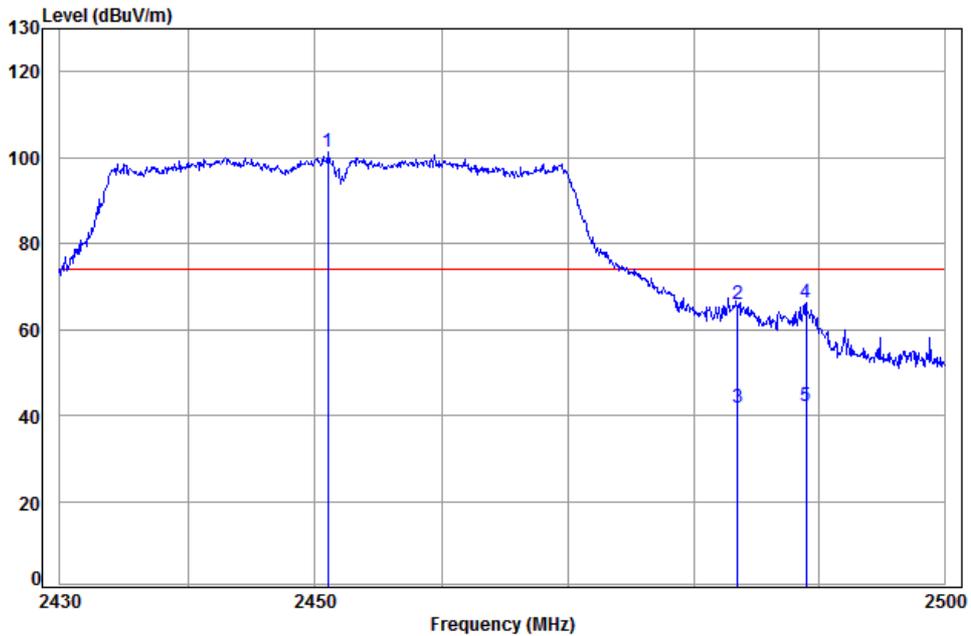
Mode: : 2452 Bandedge

: WIFI-N40 A=4

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1 pp	2450.931	5.38	29.26	38.15	106.40	74.00	28.89
2	2483.500	5.41	29.35	38.15	75.88	74.00	-1.51
3	2483.500	5.41	29.35	38.15	49.89	54.00	-7.50
4	2488.454	5.41	29.37	38.15	75.87	74.00	-1.50
5 av	2488.454	5.41	29.37	38.15	49.92	54.00	-7.45



Worse case mode:	802.11n(HT40)	Test channel:	Highest	Remark:	Peak	Horizontal
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Condition: 3m HORIZONTAL
 Job No: : 8522RG
 Mode: : 2452 Bandedge
 : WIFI-N40 A=4

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Line	Over Limit
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 pp	2451.000	5.38	29.26	38.15	104.70	101.19	74.00	27.19
2	2483.500	5.41	29.35	38.15	69.25	65.86	74.00	-8.14
3	2483.500	5.41	29.35	38.15	45.28	41.89	54.00	-12.11
4	2488.949	5.41	29.37	38.15	69.68	66.31	74.00	-7.69
5 av	2488.949	5.41	29.37	38.15	45.37	42.00	54.00	-12.00

Note:

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

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$



7 Photographs - EUT Test Setup Details

Refer to Appendix A - Photographs of EUT Test Setup Details for SZEM1610008522RG.