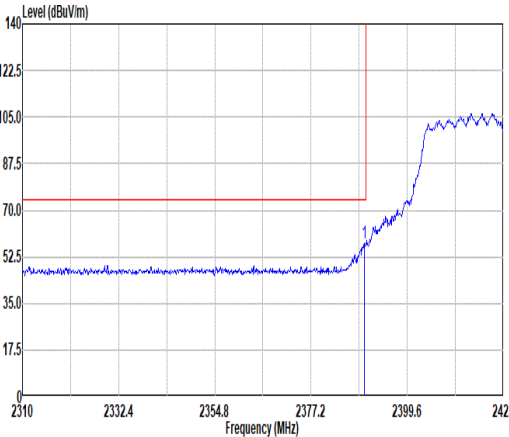
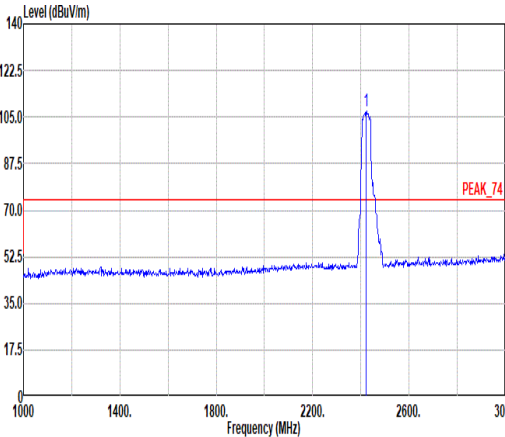
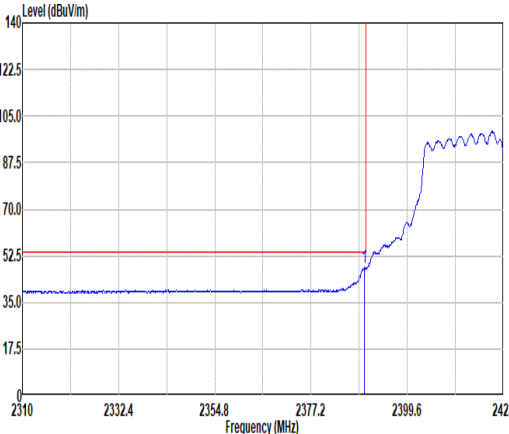
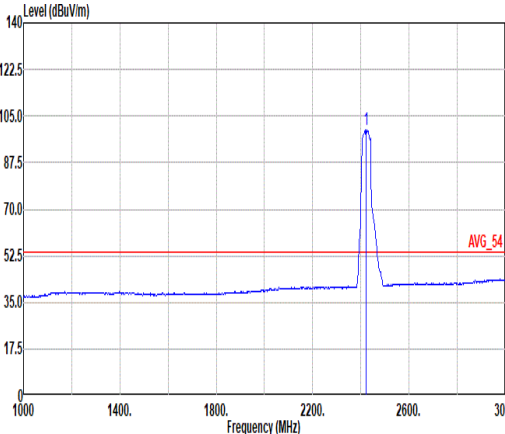


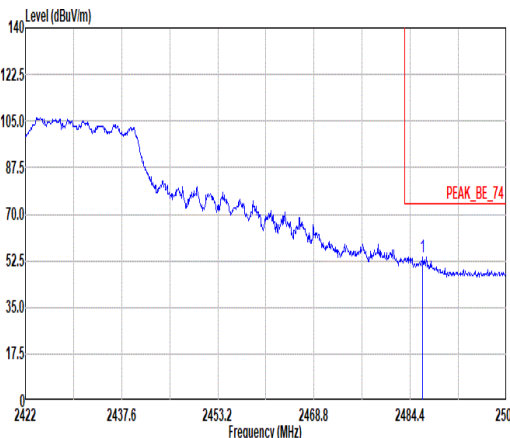
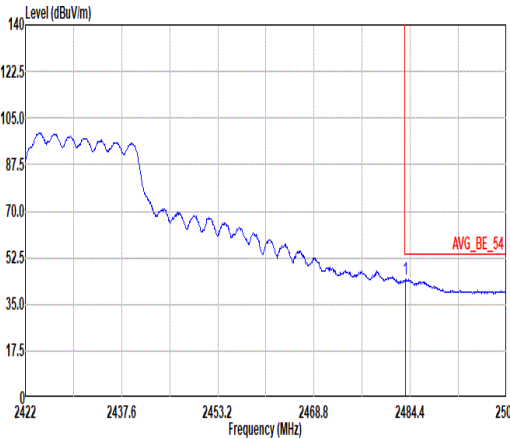


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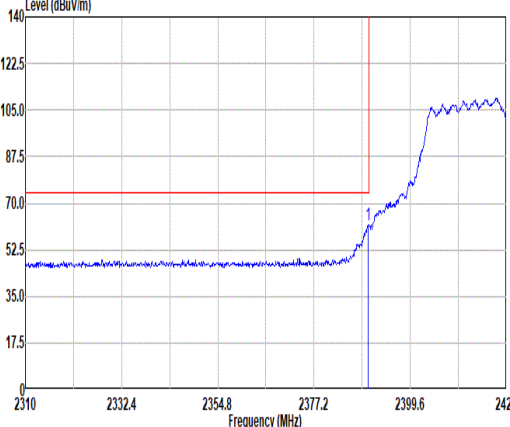
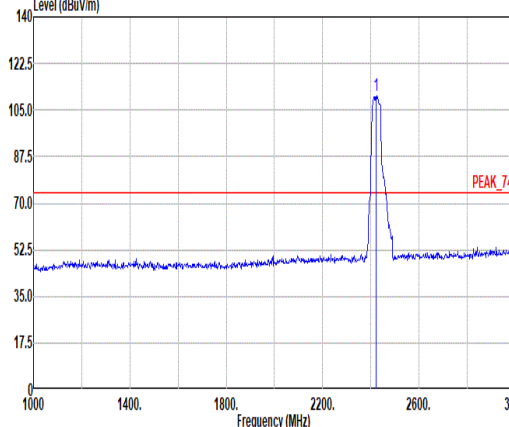
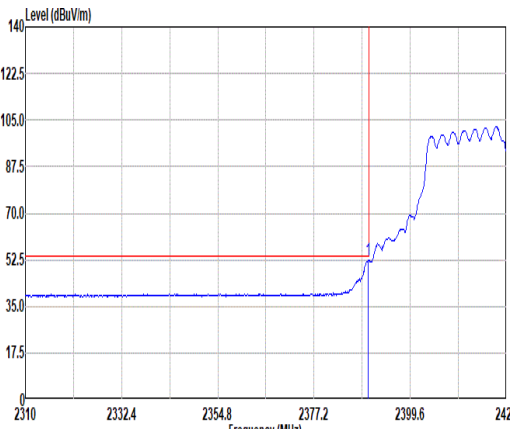
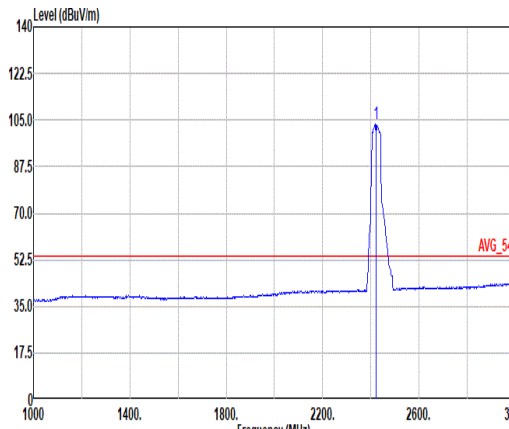


FCC RADIO TEST REPORT

Report No. :FR453102A

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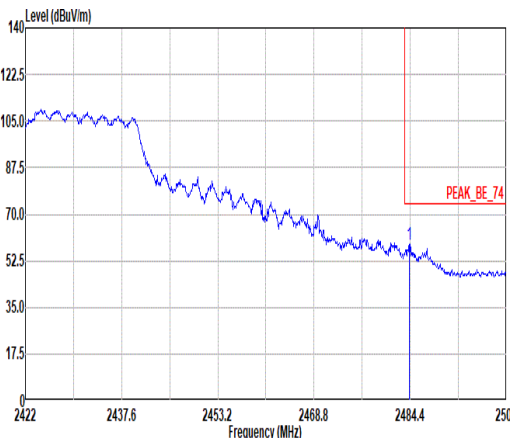
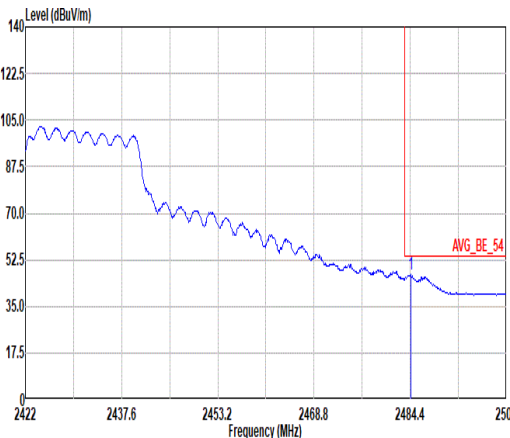


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	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																																																									
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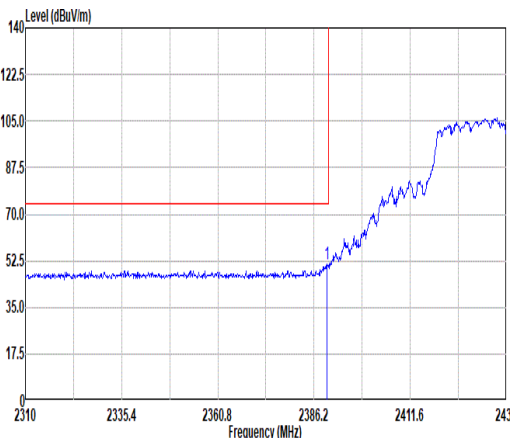
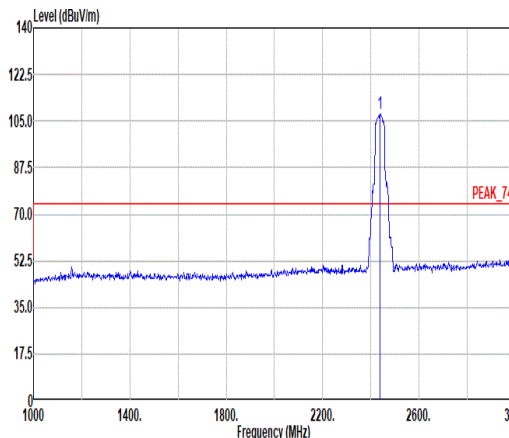
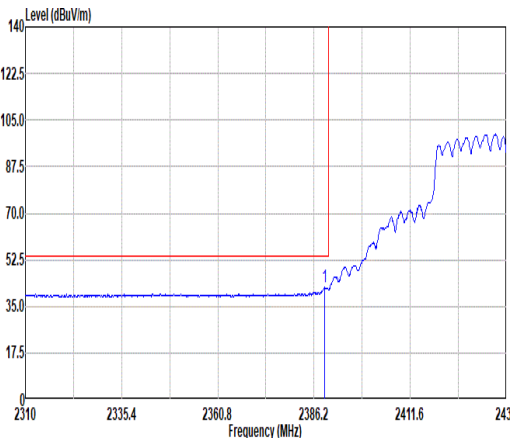
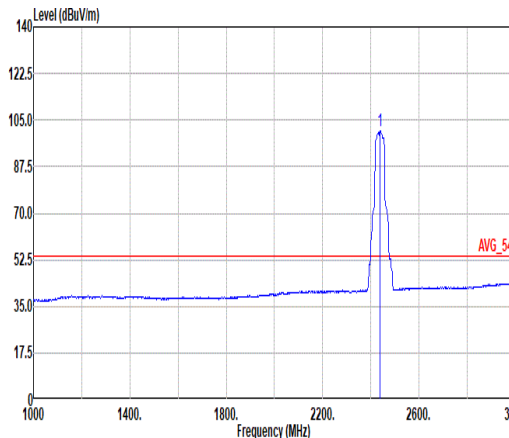


FCC RADIO TEST REPORT

Report No. :FR453102A

Mode	10																																																							
	Band Edge - R																																																							
	2400-2483.5_802.11n HT40_CH03_Full RU_2422MHz																																																							
ANT	1+2																																																							
Pol.	Vertical						Fundamental																																																	
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN_91200_1326 VERTICAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 2484.24</td><td>58.48</td><td>74.00</td><td>-15.52</td><td>53.03</td><td>27.80</td><td>4.79</td><td>37.07</td><td>9.93</td><td>307</td><td>18</td><td>PEAK</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1 2484.24	58.48	74.00	-15.52	53.03	27.80	4.79	37.07	9.93	307	18	PEAK	Blank					
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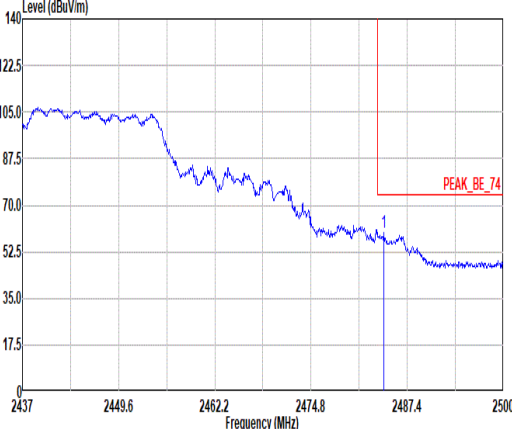
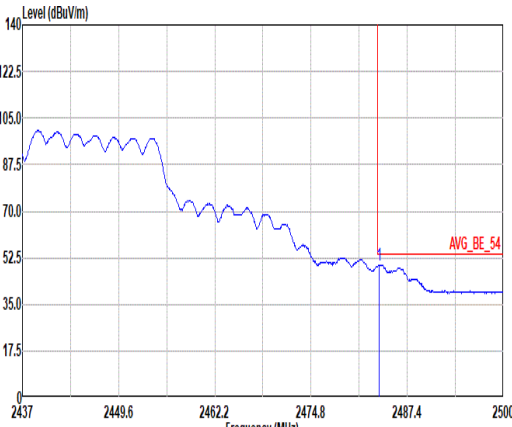


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Mode	Band Edge - L																																																																																																										
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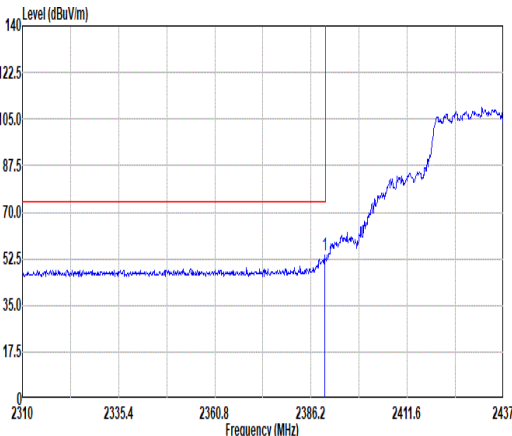
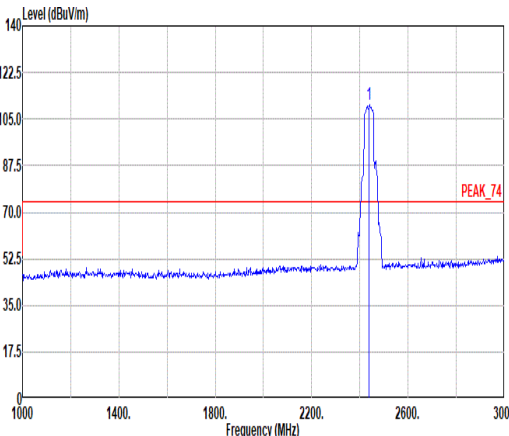
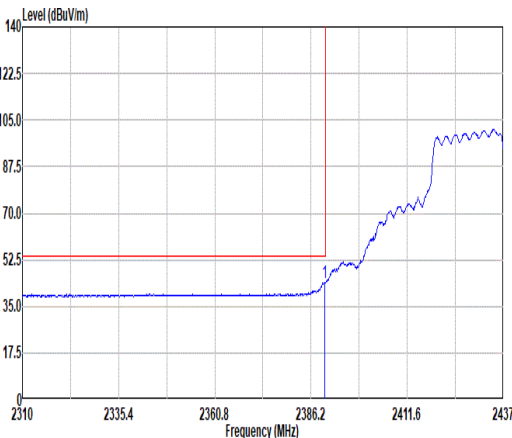
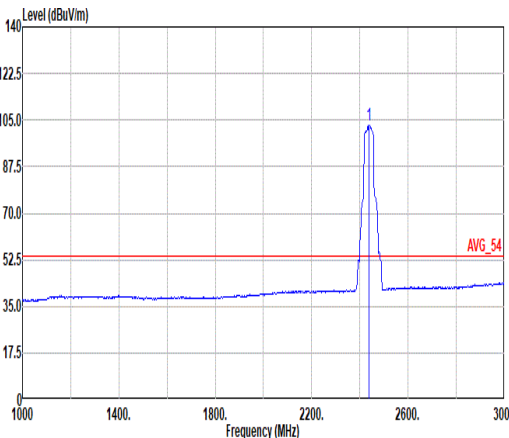


FCC RADIO TEST REPORT

Report No. :FR453102A

Mode	11																																																						
	Band Edge - R																																																						
	2400-2483.5_802.11n HT40_CH06_Full RU_2437MHz																																																						
ANT	1+2																																																						
Pol.	Horizontal						Fundamental																																																
Peak	 Site : 03CH13-HY Condition: PEAK_BE_74 3m HORN 91200 1326 HORIZONTAL : RBW:1000.000kHz VBW:3000.000kHz SMT:Auto <table><tr><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>cm</th><th>deg</th><th>Remark</th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1 2484.31</td><td>59.57</td><td>74.00</td><td>-14.43</td><td>54.12</td><td>27.80</td><td>4.79</td><td>37.07</td><td>9.93</td><td>100</td><td>239</td><td>PEAK</td></tr></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	cm	deg	Remark	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1 2484.31	59.57	74.00	-14.43	54.12	27.80	4.79	37.07	9.93	100	239	PEAK	Blank				
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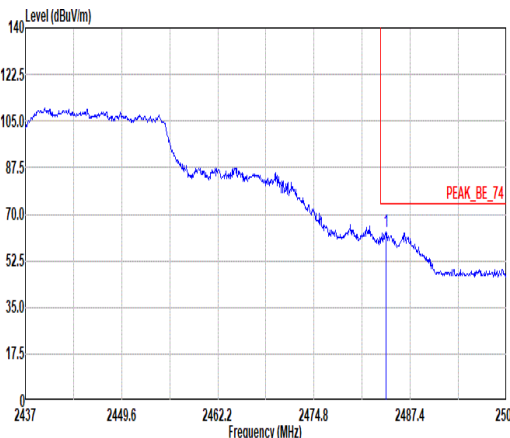
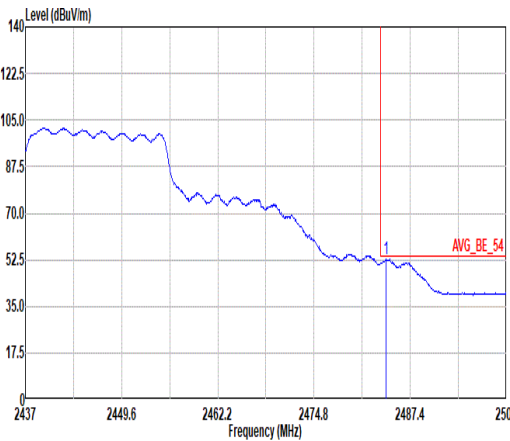


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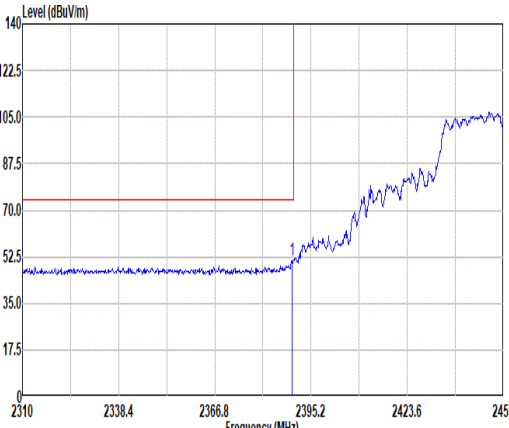
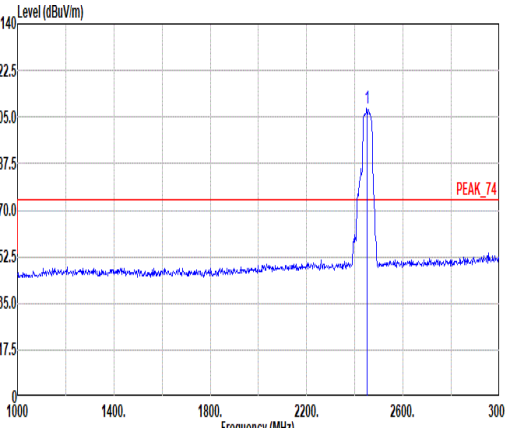
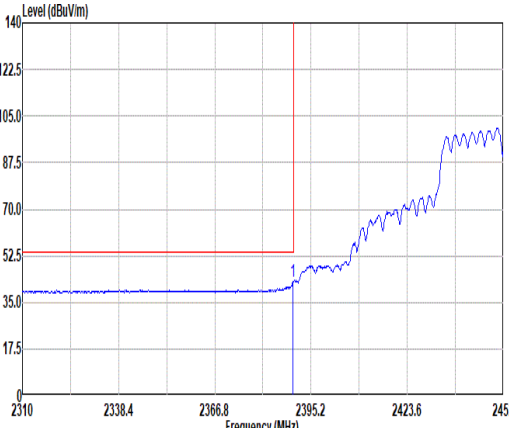
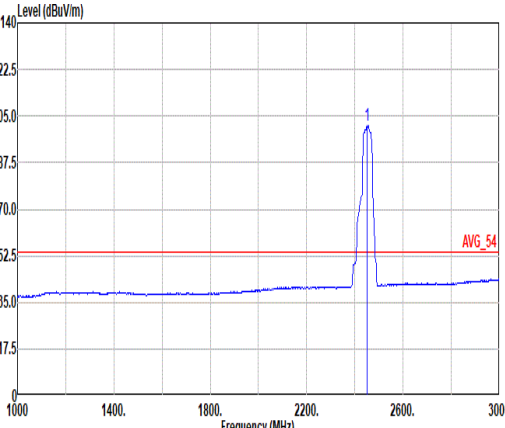


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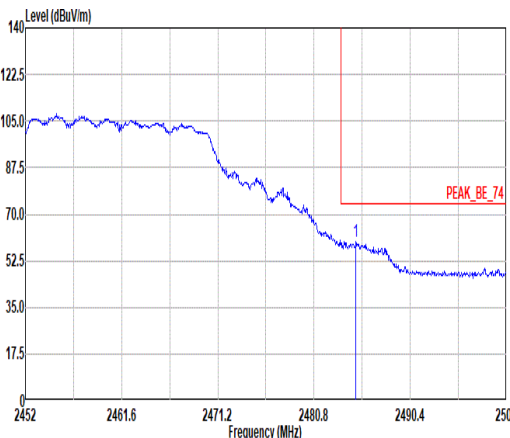
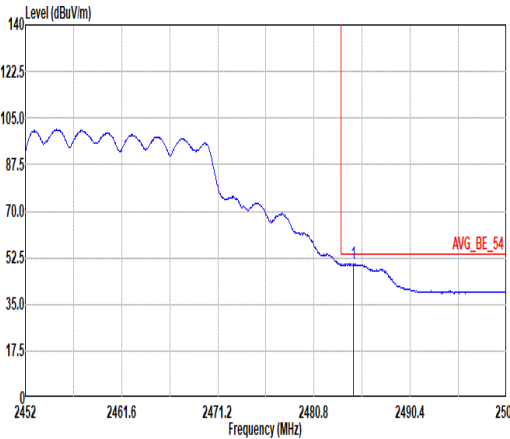
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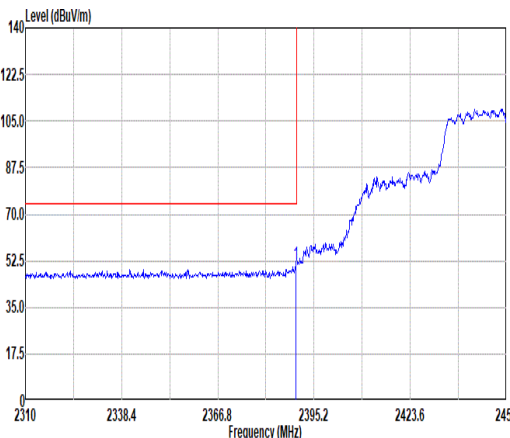
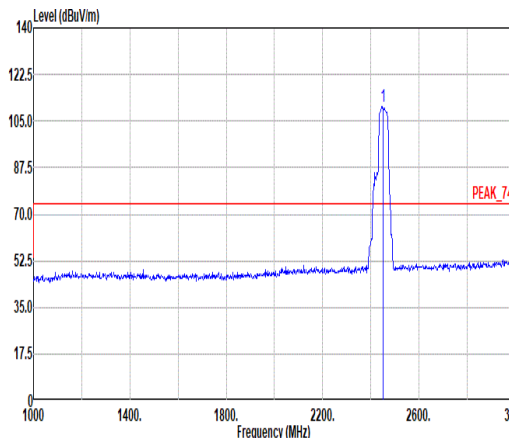
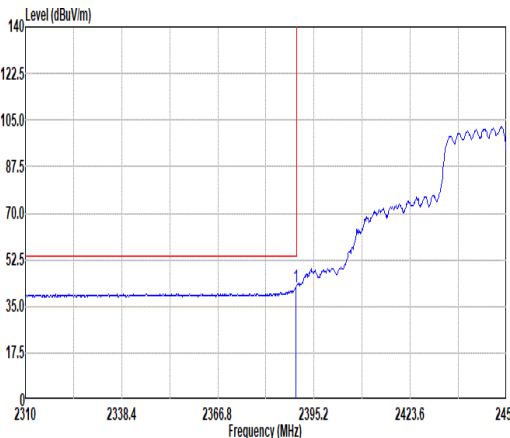
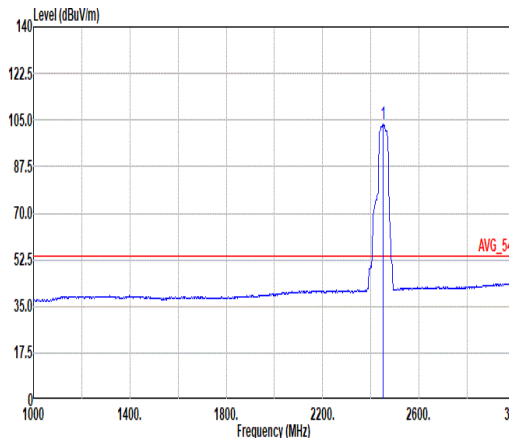


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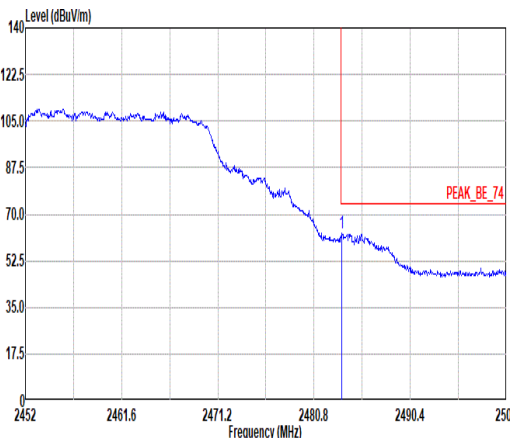
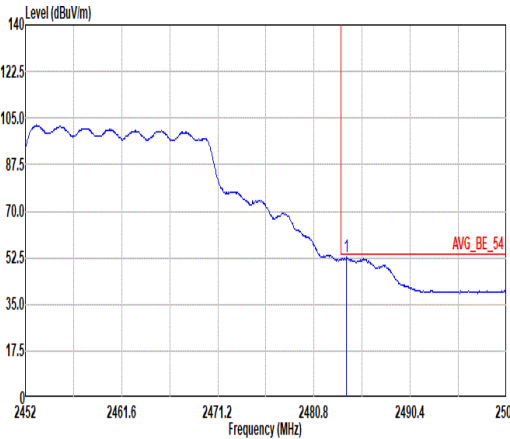


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Mode	Band Edge - L																																																																																																					
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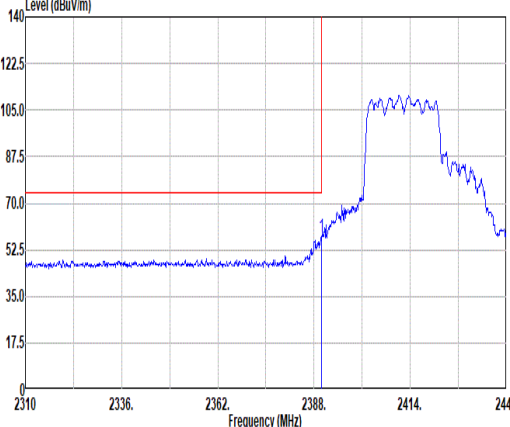
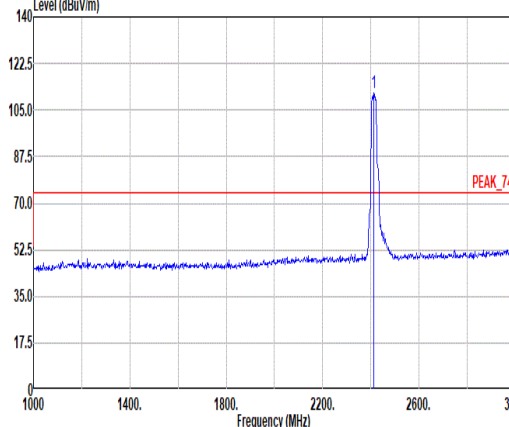
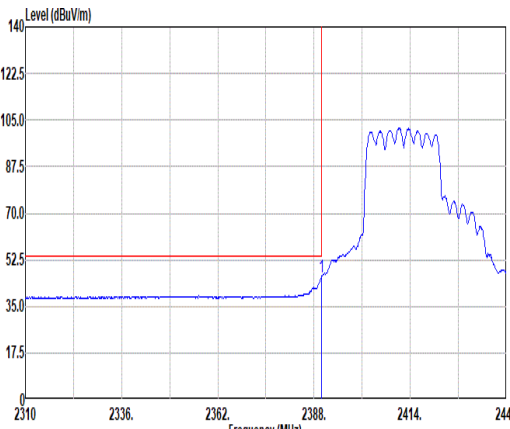
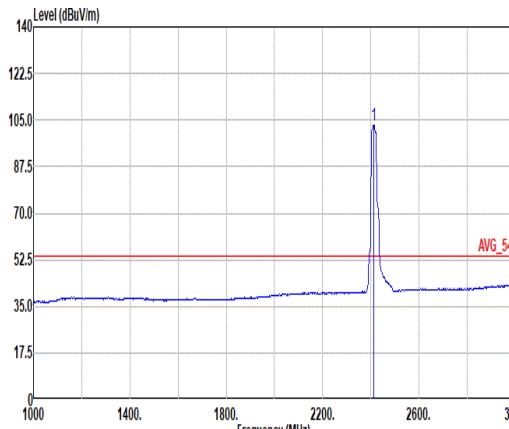


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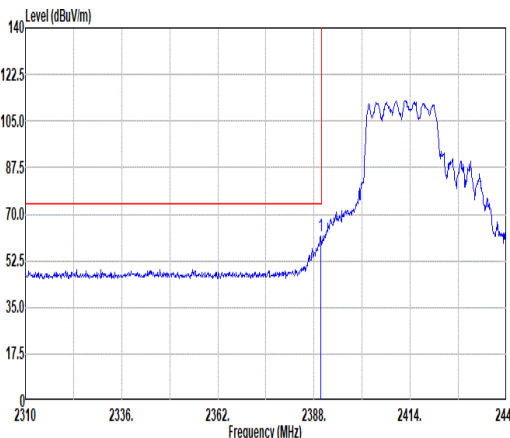
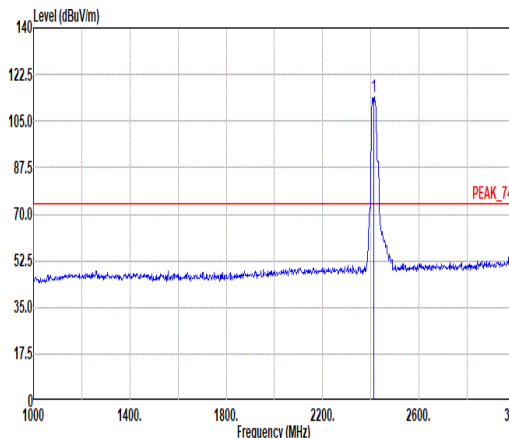
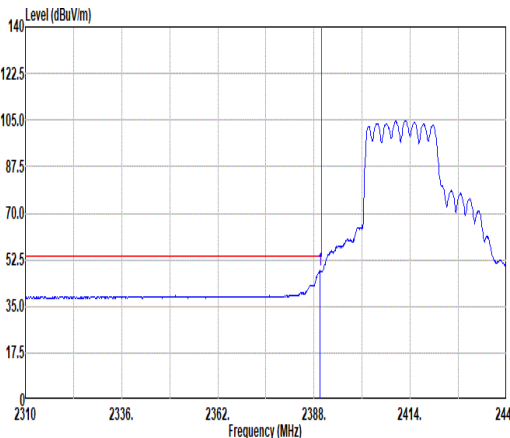
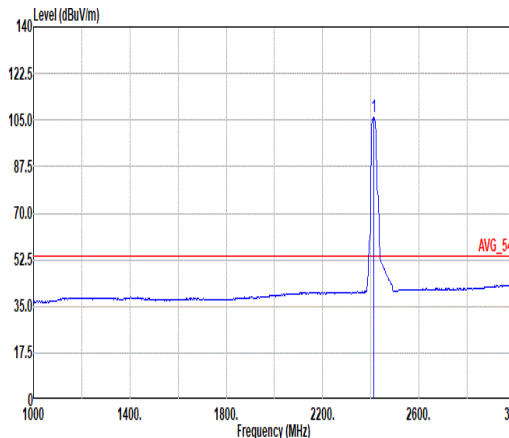
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Pol.	Vertical						Fundamental																																																	
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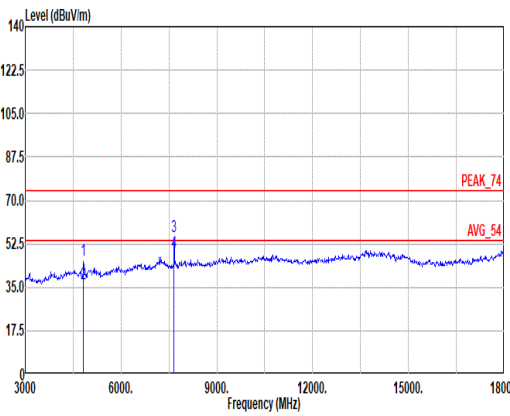
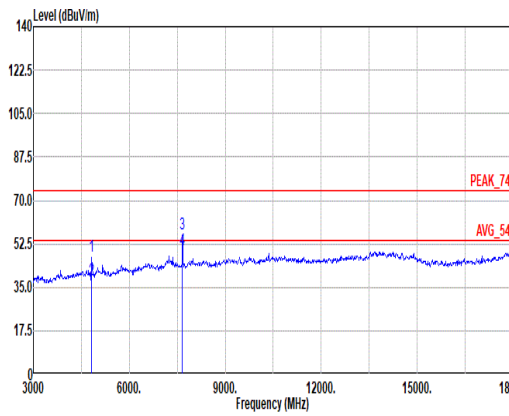


Mode	13																																																																																																		
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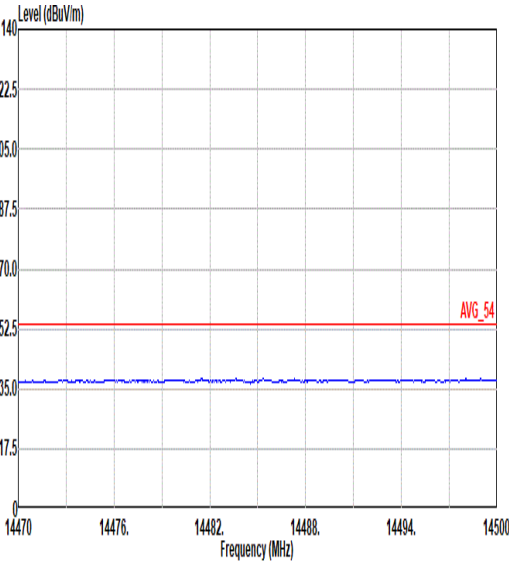
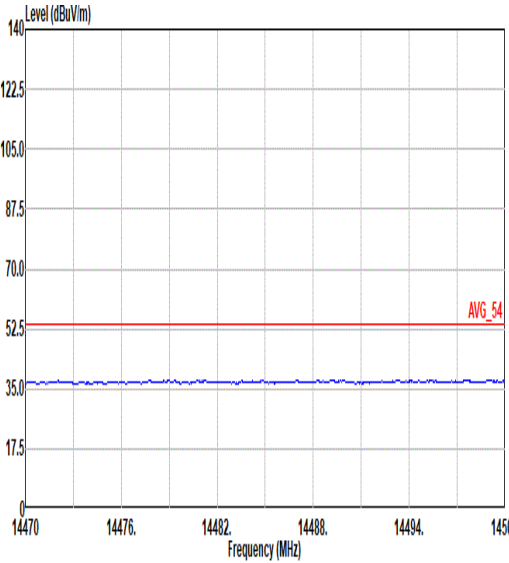
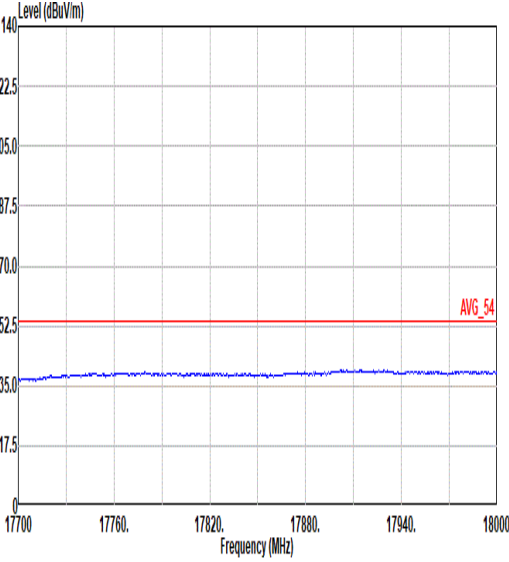
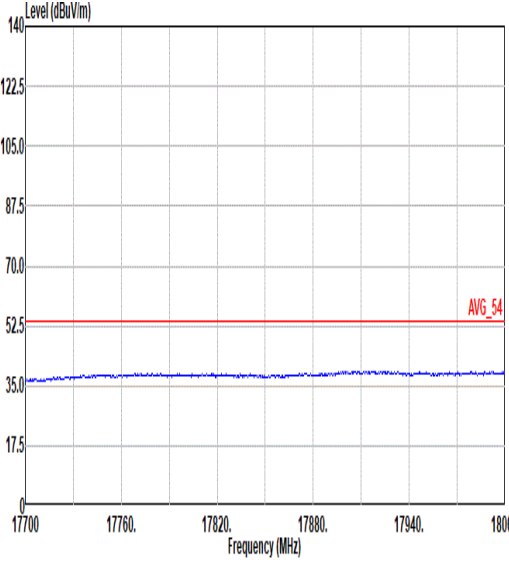


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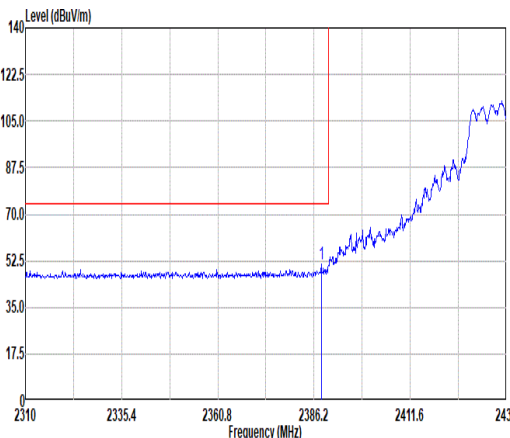
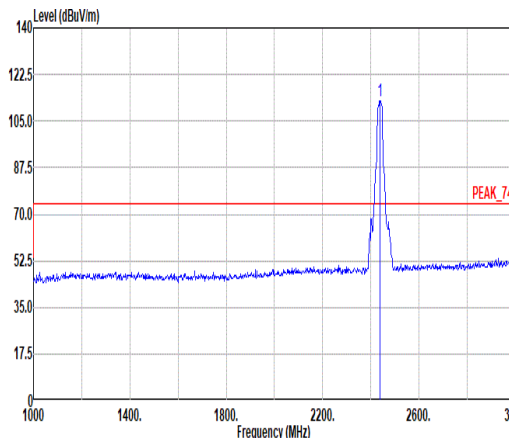
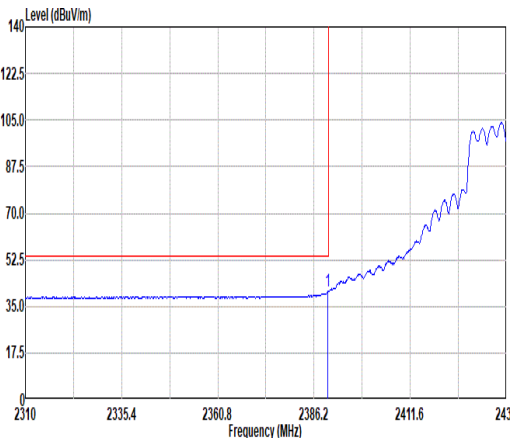
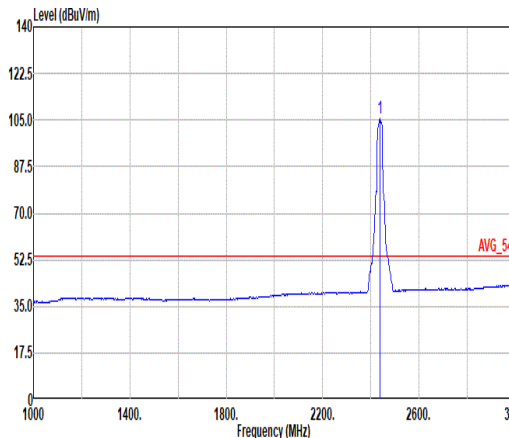


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	Harmonic												
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ANT	1+2												
Pol.	Horizontal						Vertical						
Peak Avg.													
	Site : 03CH13-HY Condition: PEAK_74 3m HORN_91280_1326 HORIZONTAL						Site : 03CH13-HY Condition: PEAK_74 3m HORN_91280_1326 VERTICAL						
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	4824.00	45.92	74.00	-28.08	63.52	32.44	6.89	57.39	0.46	100	245	PEAK	
2	4824.00	36.50	54.00	-17.50	54.10	32.44	6.89	57.39	0.46	100	245	Average	
3	7656.00	55.29	74.00	-18.71	66.75	36.50	9.17	57.55	0.42	100	253	Peak	
4	7656.00	49.29	54.00	-4.71	60.75	36.50	9.17	57.55	0.42	100	253	Average	
	Freq	Level	Limit	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	cm	deg	
1	4824.00	47.73	74.00	-26.27	65.33	32.44	6.89	57.39	0.46	100	137	PEAK	
2	4824.00	38.14	54.00	-15.86	55.74	32.44	6.89	57.39	0.46	100	137	Average	
3	7656.00	56.37	74.00	-17.63	67.83	36.50	9.17	57.55	0.42	100	208	Peak	
4	7656.00	50.41	54.00	-3.59	61.87	36.50	9.17	57.55	0.42	100	208	Average	



Mode	13	
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	2400-2483.5_802.11ax HE20_CH01_Full RU_2412MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL
17.7G ~18G Avg.	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL

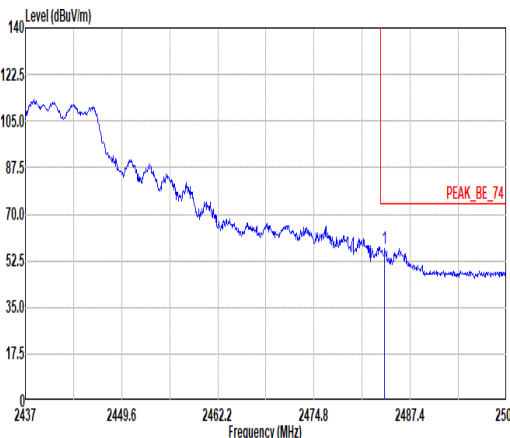
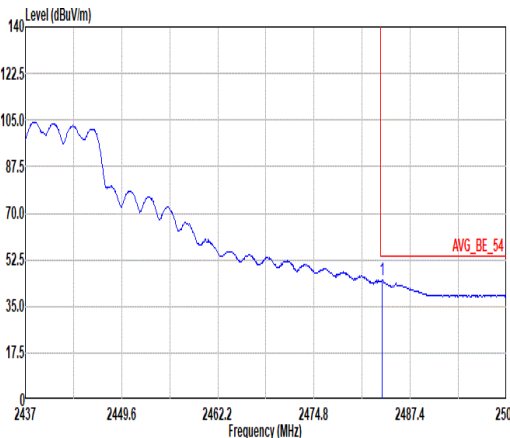


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Mode		Band Edge - L																																																				
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ANT		1+2																																																				
Pol.		Horizontal																																																				
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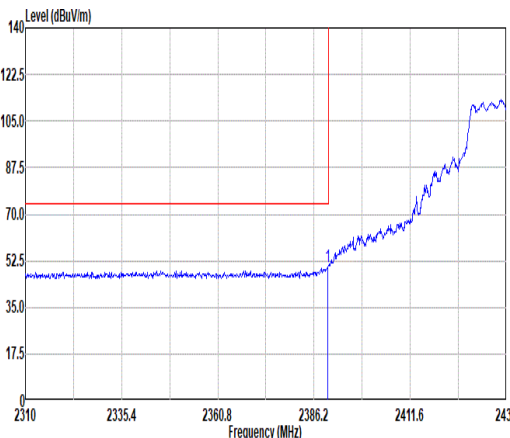
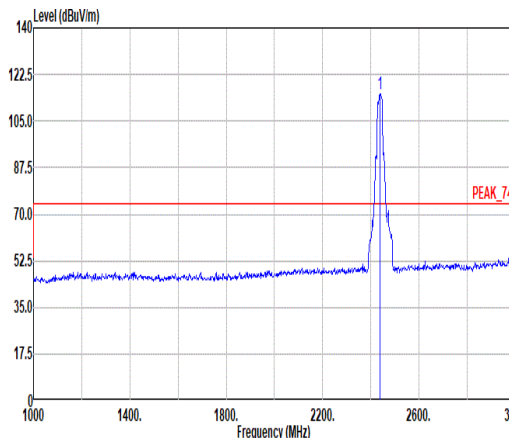
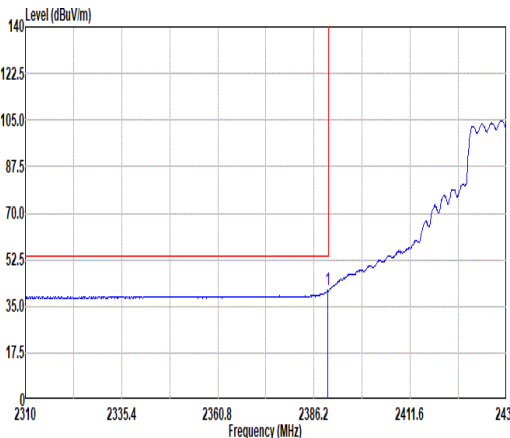
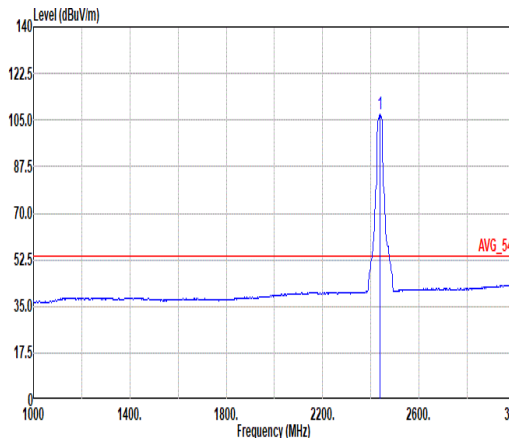


FCC RADIO TEST REPORT

Report No. :FR453102A

Mode	14																																													
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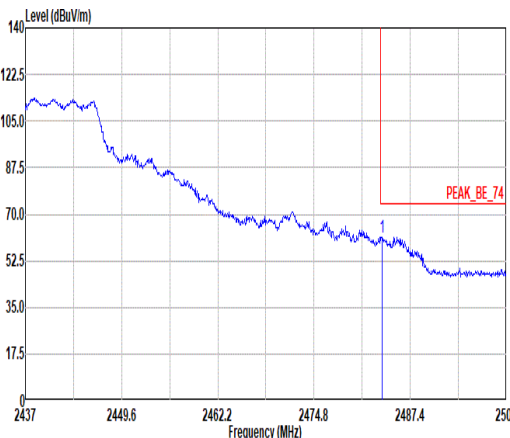
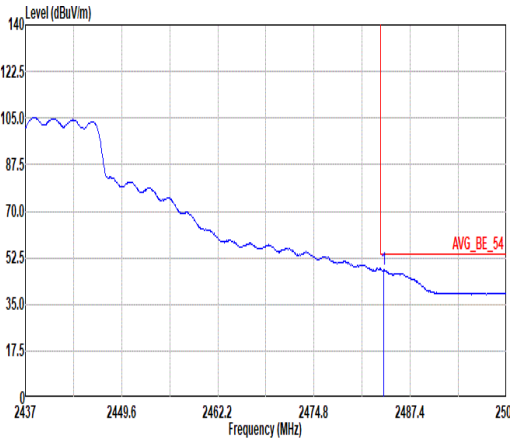


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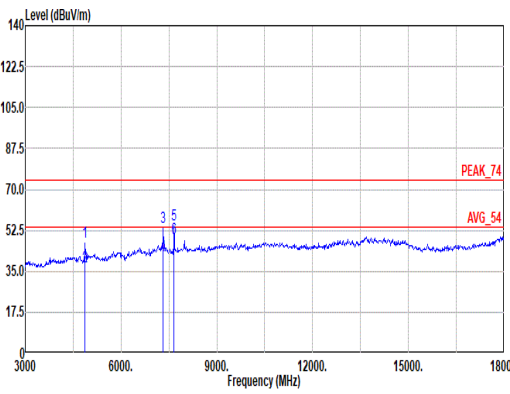
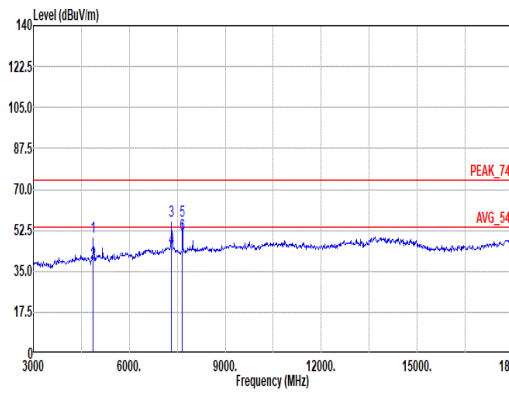


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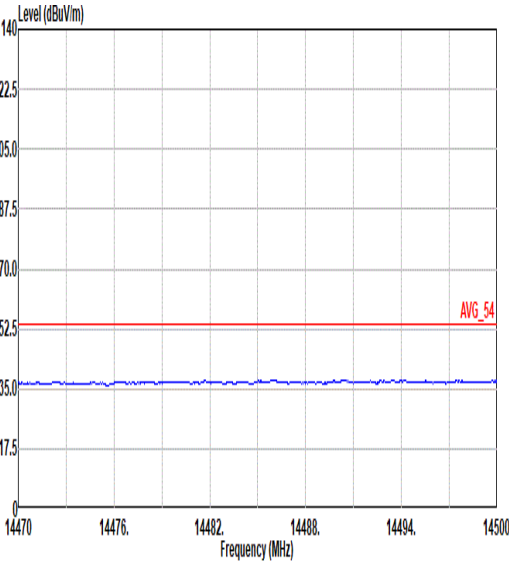
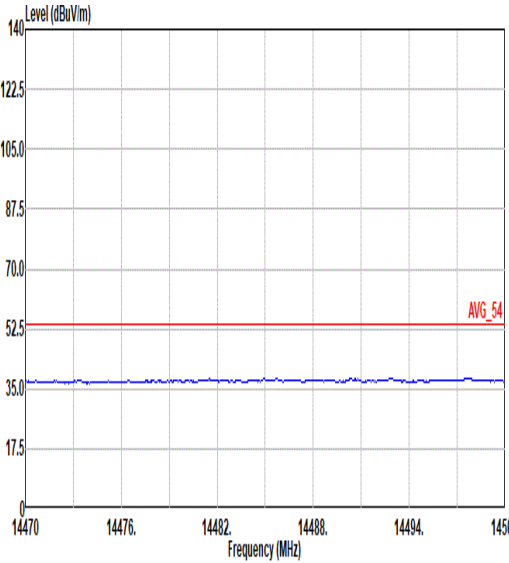
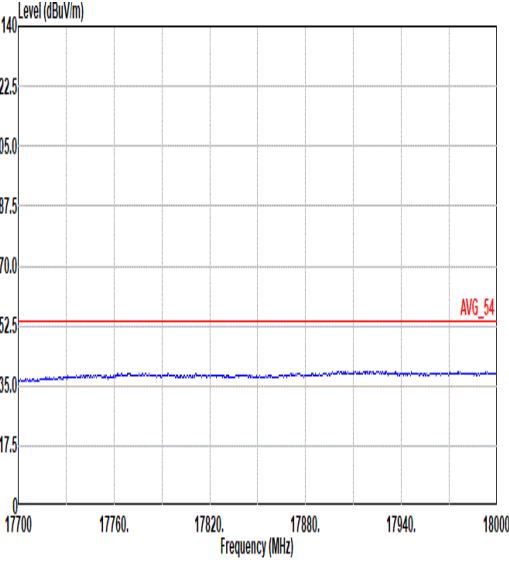
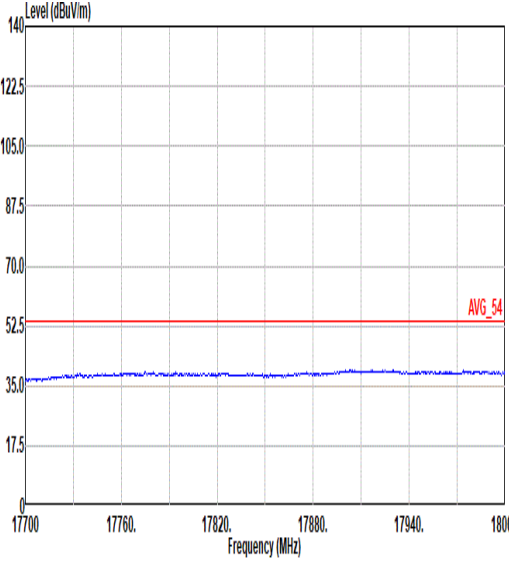
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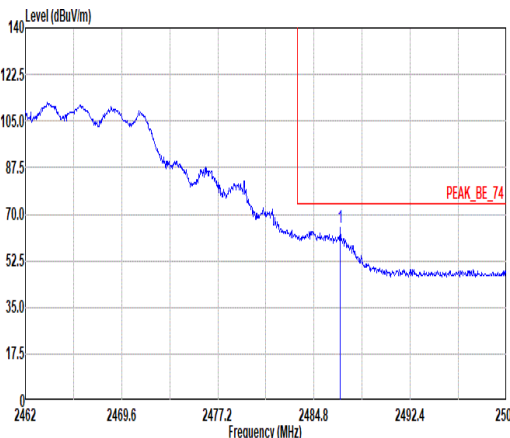
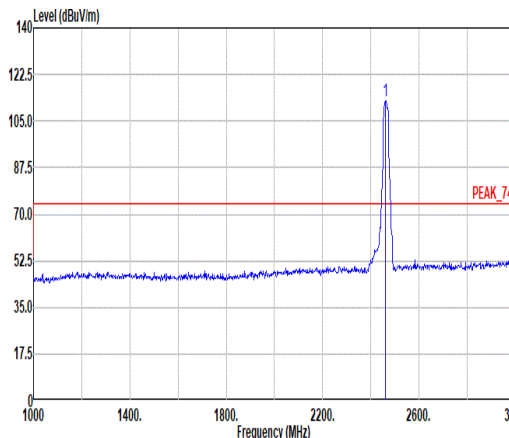
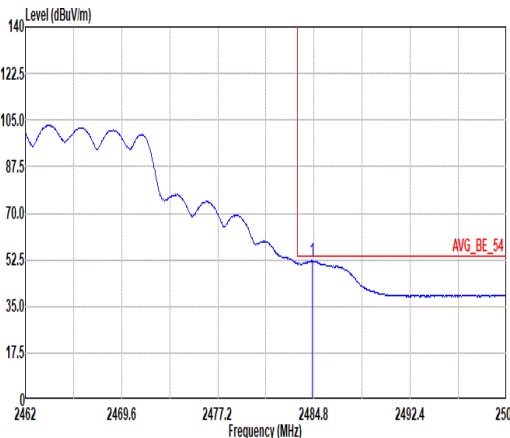
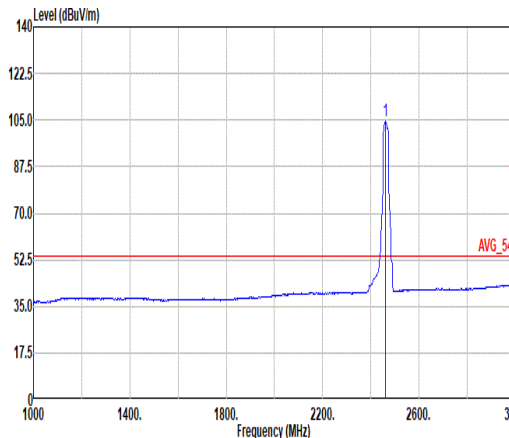


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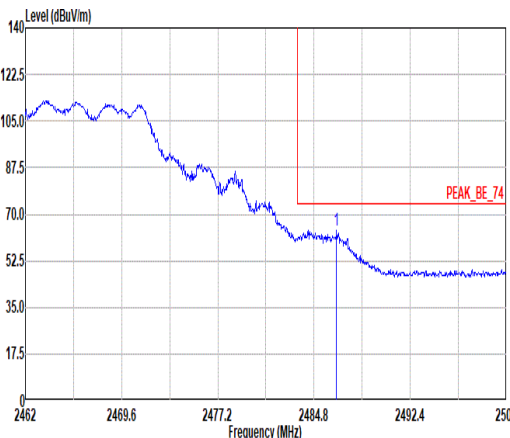
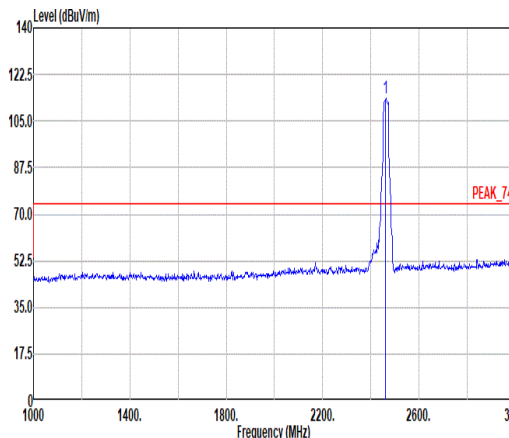
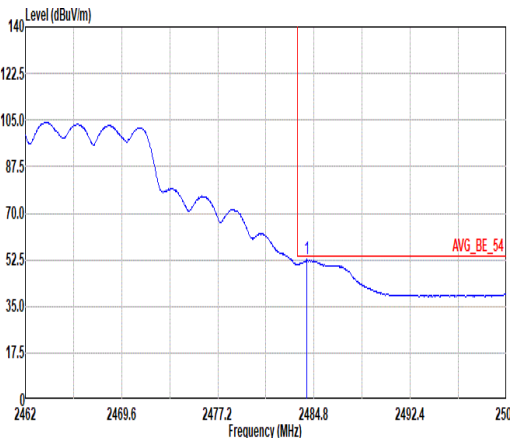
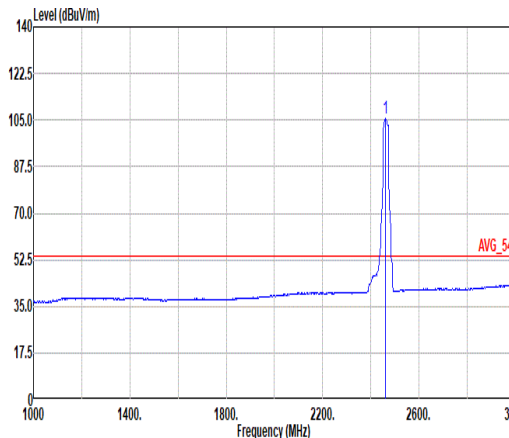


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ANT	1+2	
Pol.	Horizontal	Vertical
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17.7G ~18G Avg.	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL

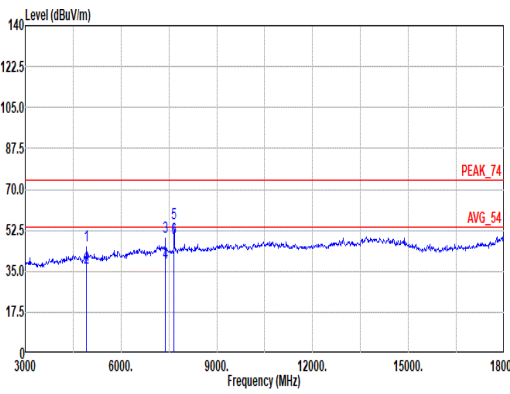
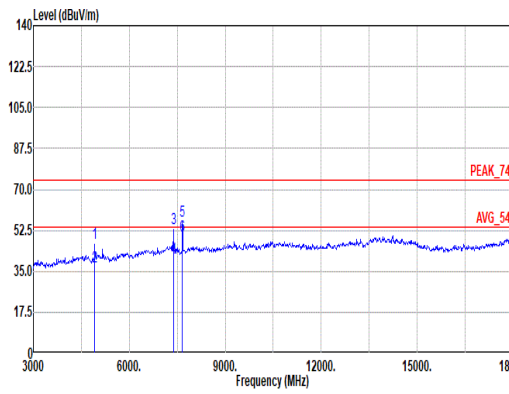


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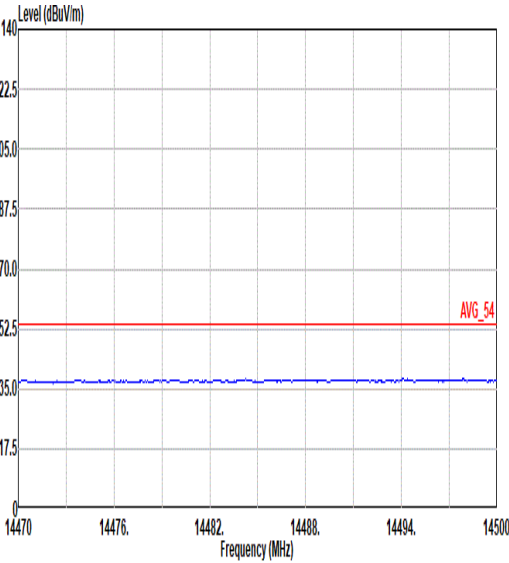
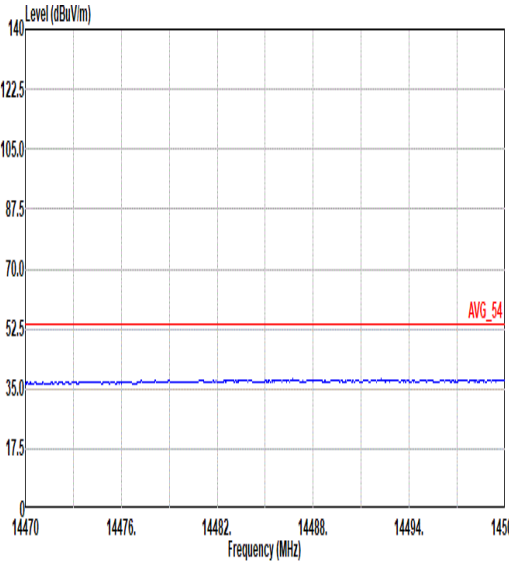
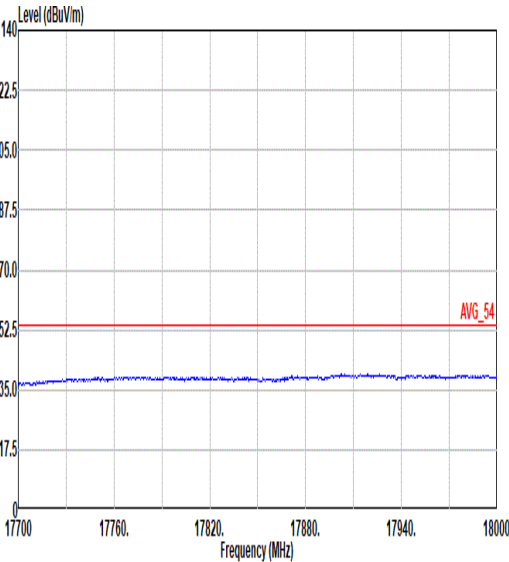
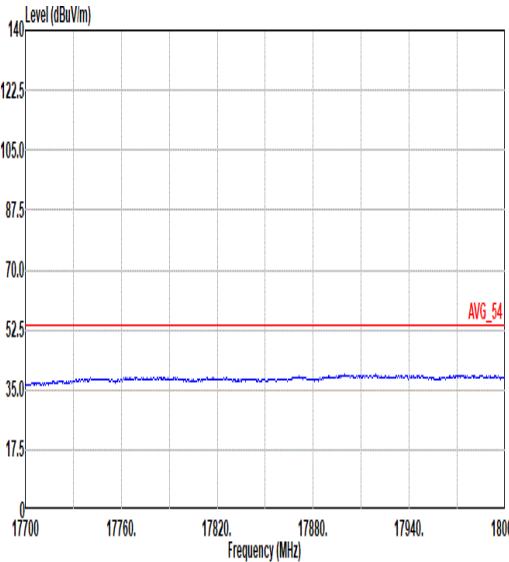


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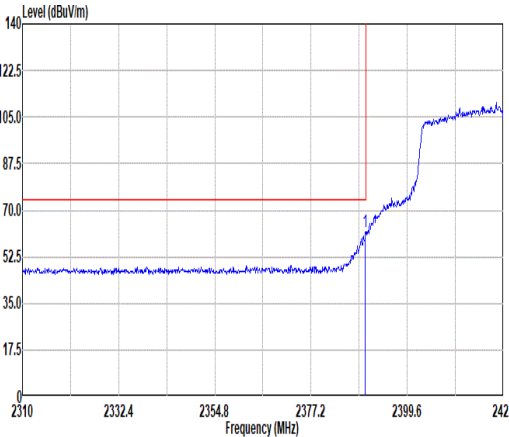
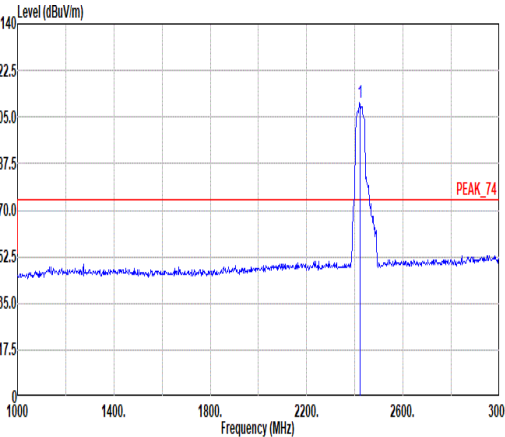
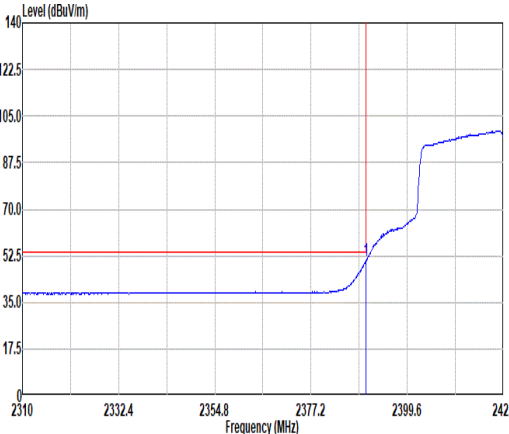
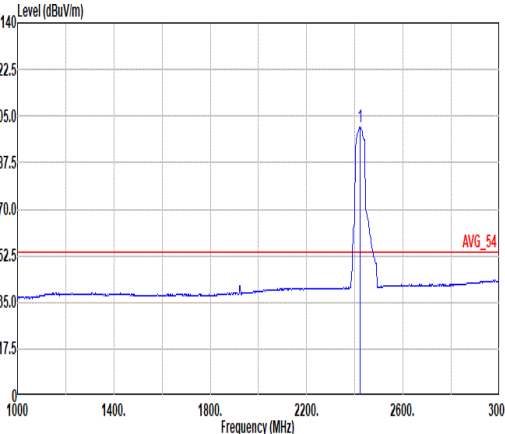


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Mode	15	
	Harmonic	
	2400-2483.5_802.11ax HE20_CH11_Full RU_2462MHz	
ANT	1+2	
Pol.	Horizontal	Vertical
14.47G ~14.5G Avg.	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL
17.7G ~18G Avg.	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 HORIZONTAL	 Site : 03CH13-HY Condition: AVG_54 3m HORN_91200_1326 VERTICAL

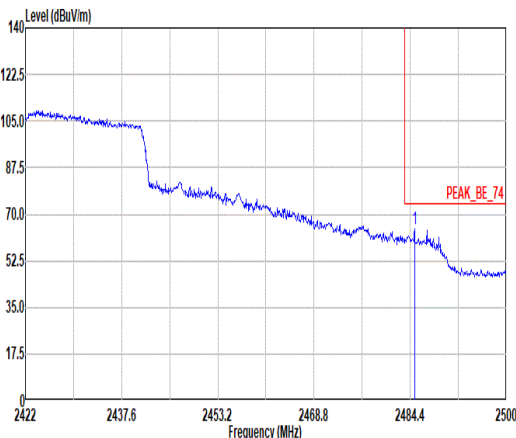
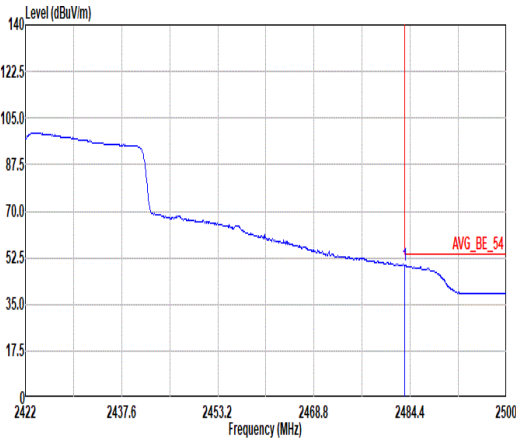


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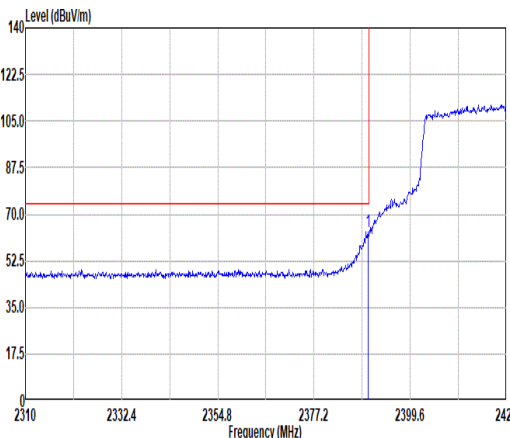
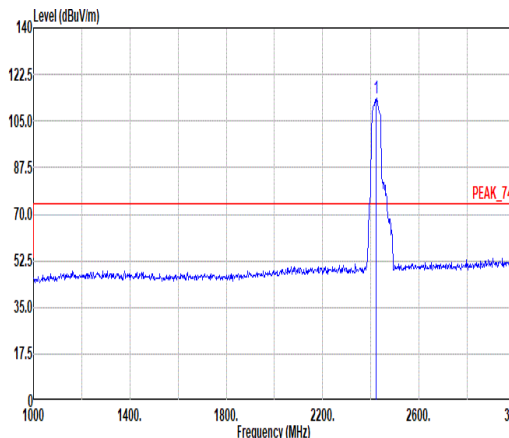
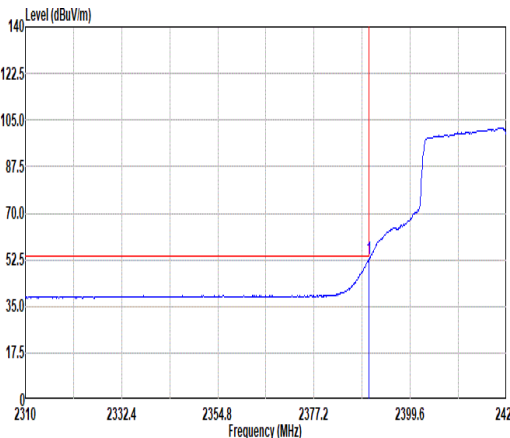
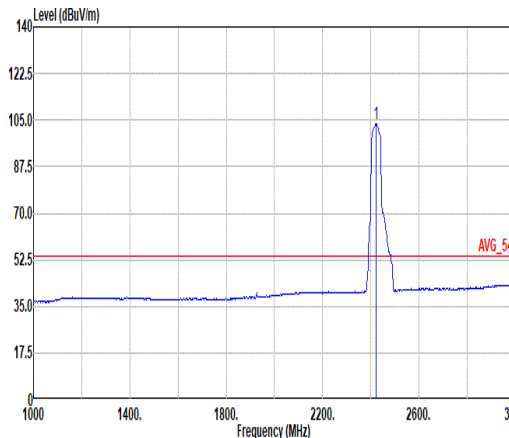


FCC RADIO TEST REPORT

Report No. :FR453102A

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Pol.	Horizontal						Fundamental																																																	
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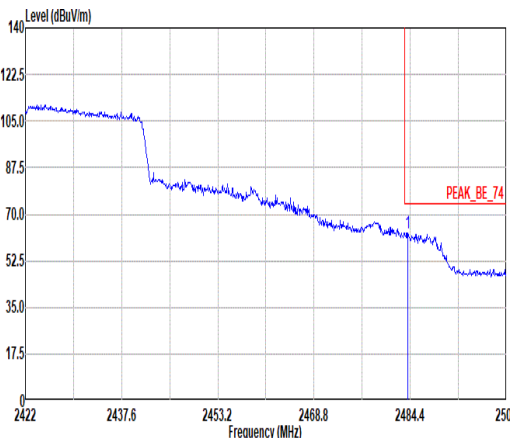
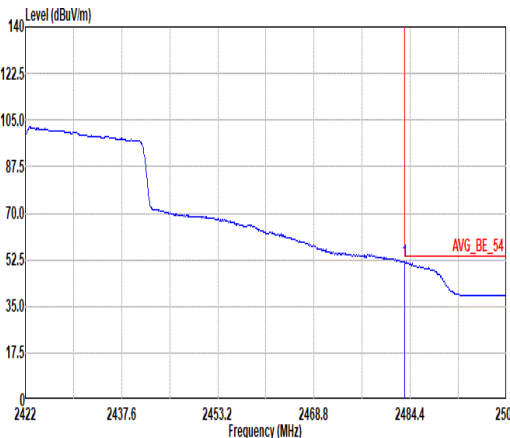


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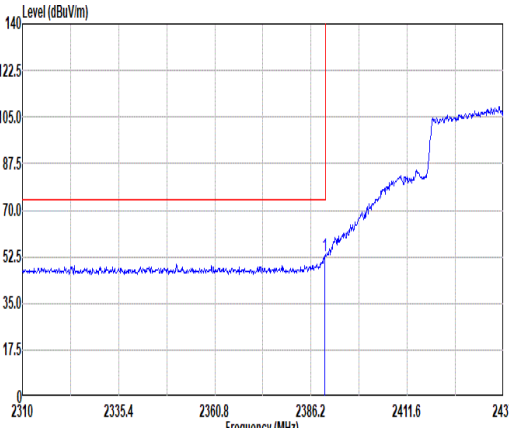
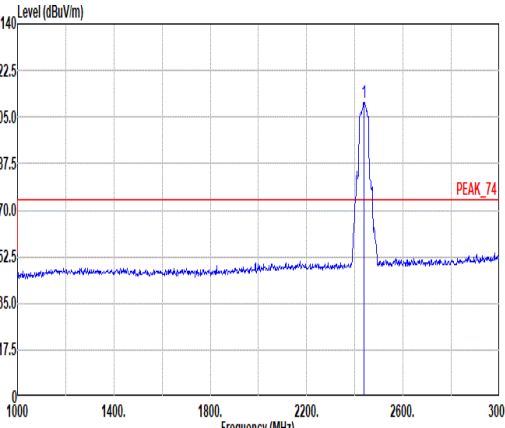
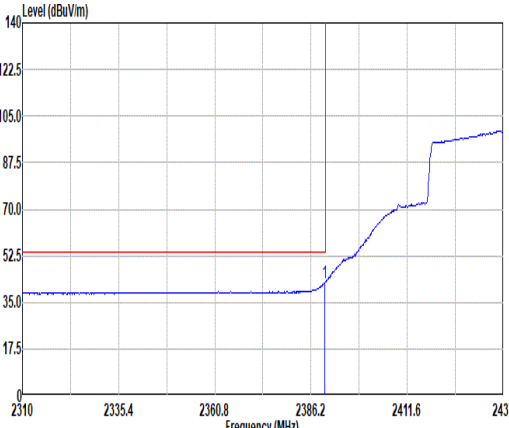
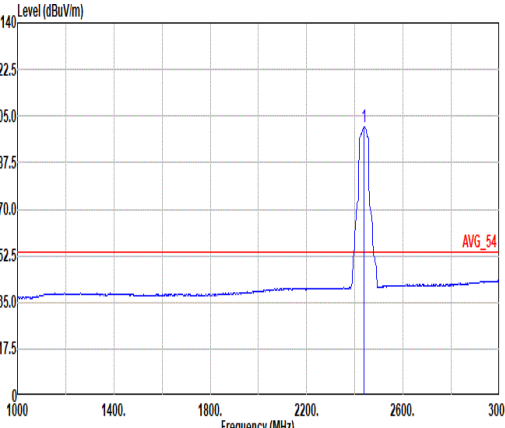


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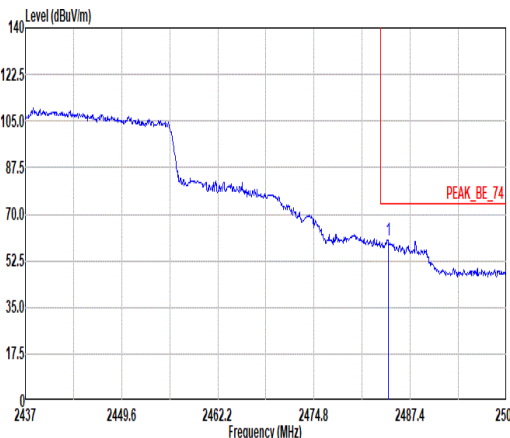
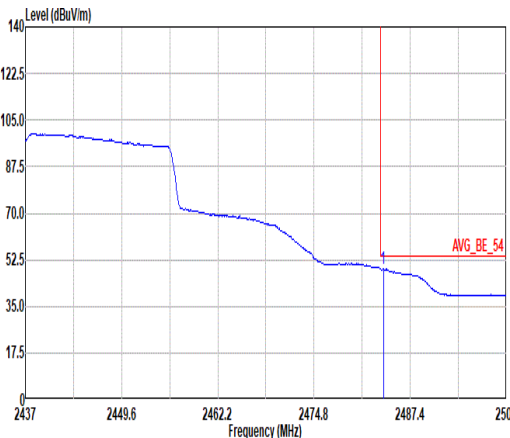
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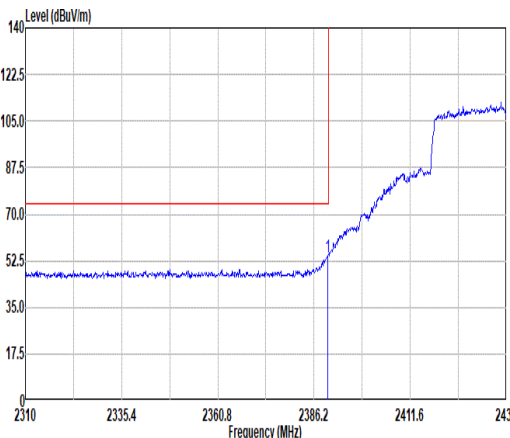
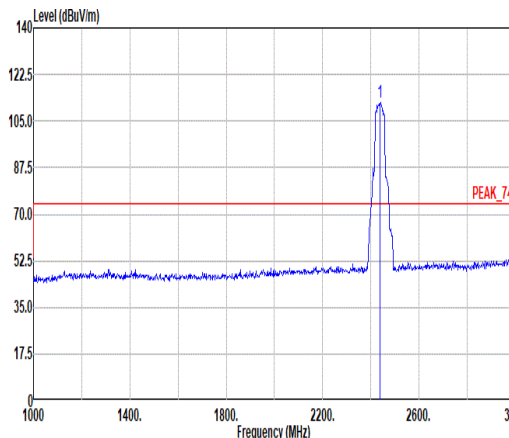
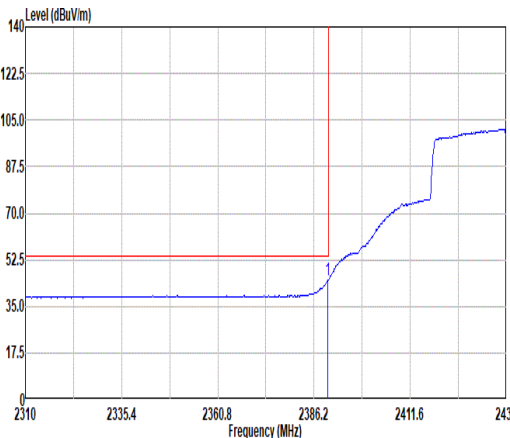
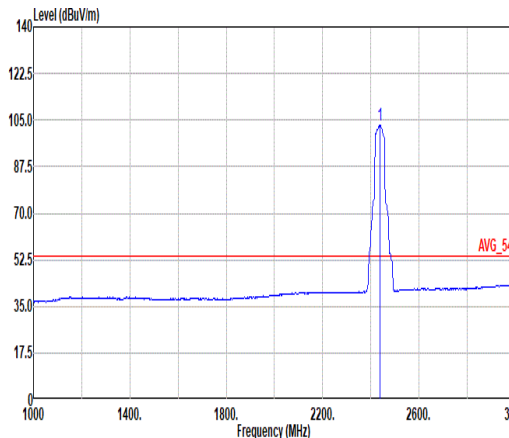


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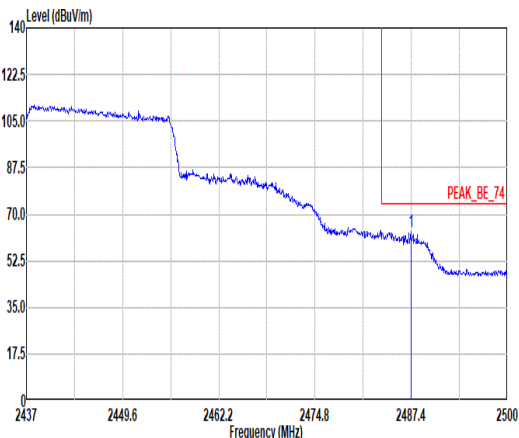
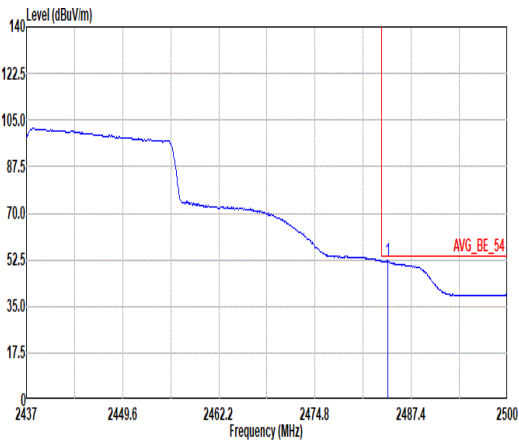


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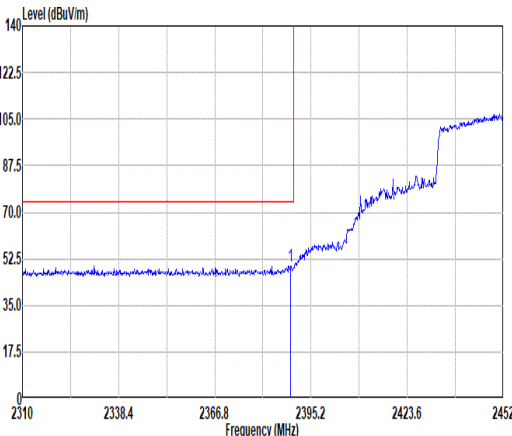
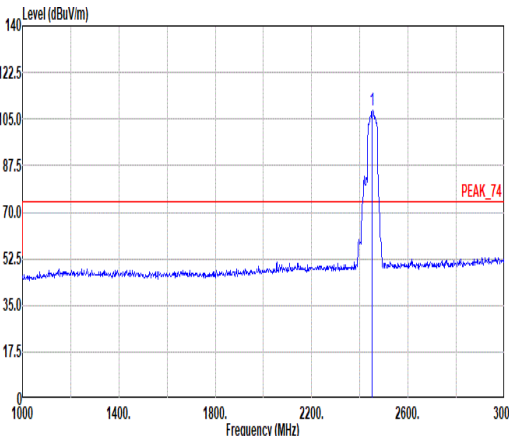
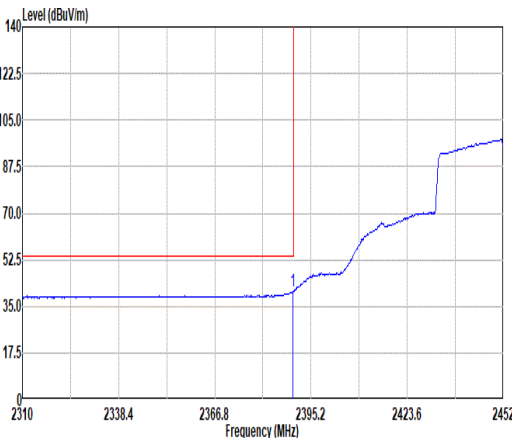
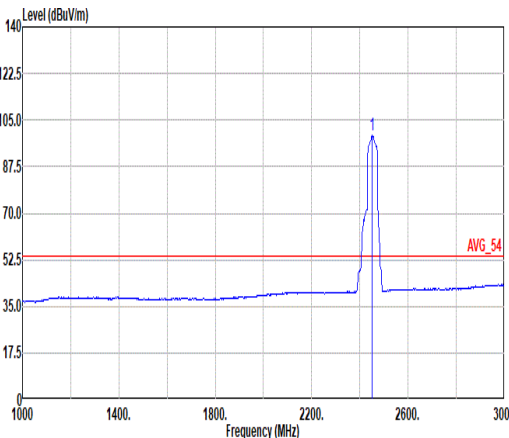


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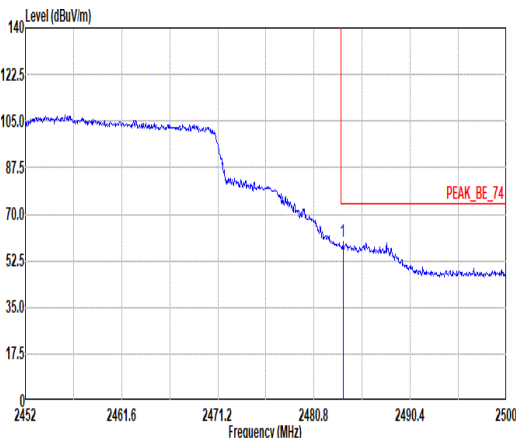
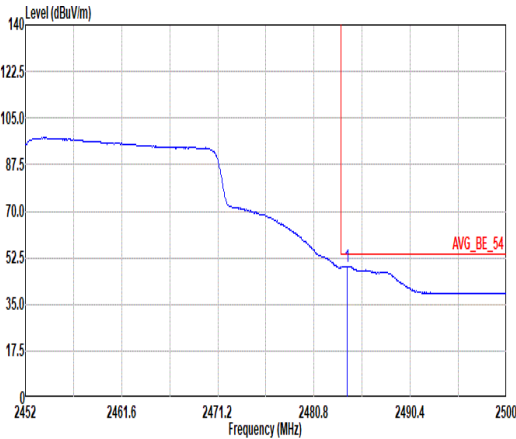


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FCC RADIO TEST REPORT

Report No. :FR453102A

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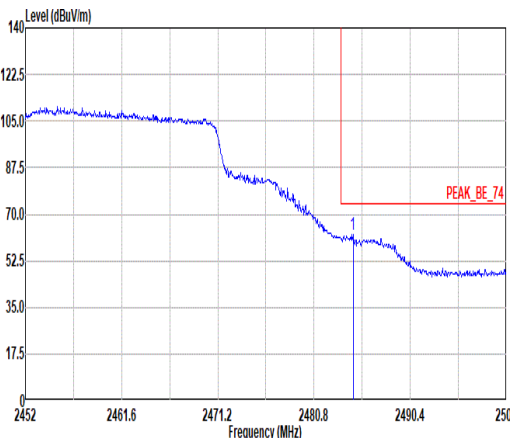
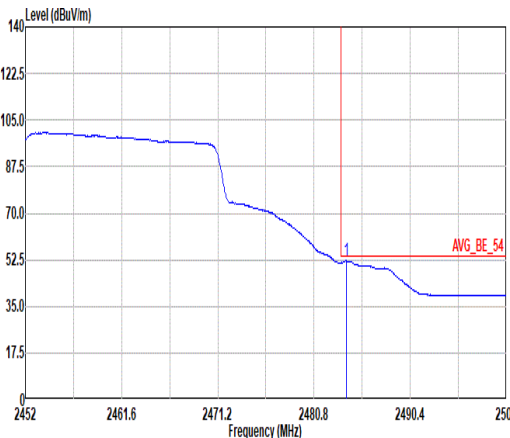


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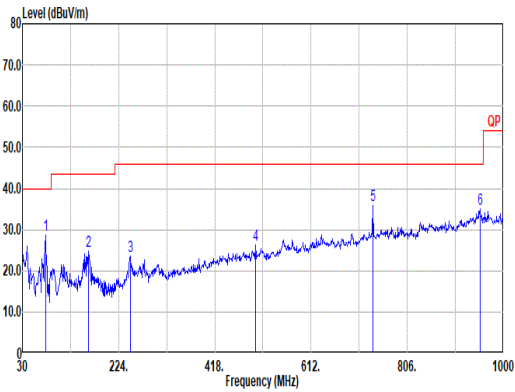
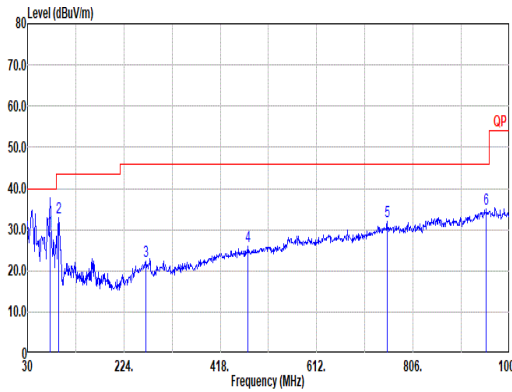


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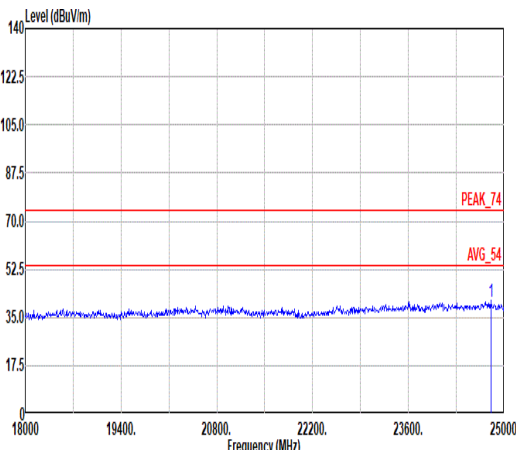
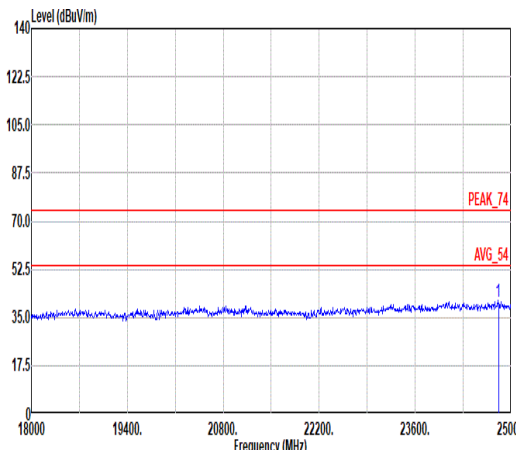
Report No. :FR453102A

Mode	18																																																							
	Band Edge - R																																																							
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ANT	1+2																																																							
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	2	162.89	24.90	43.50	-18.60	39.04	16.29	1.64	32.19	0.12	--	--	--	Peak																																																																																																																																																																																																																															
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2	92.08	32.99	43.50	-10.51	48.98	14.83	1.39	32.27	0.06	--	--	--	Peak																																																																																																																																																																																																																																
3	268.62	22.19	46.00	-23.81	32.99	19.28	1.92	32.12	0.12	--	--	--	Peak																																																																																																																																																																																																																																
4	473.29	26.10	46.00	-19.90	32.34	23.47	2.36	32.17	0.10	--	--	--	Peak																																																																																																																																																																																																																																
5	753.62	32.00	46.00	-14.00	32.76	28.30	2.83	32.04	0.15	--	--	--	Peak																																																																																																																																																																																																																																
6	953.44	34.97	46.00	-11.03	31.61	31.00	3.11	30.96	0.21	--	--	--	Peak																																																																																																																																																																																																																																



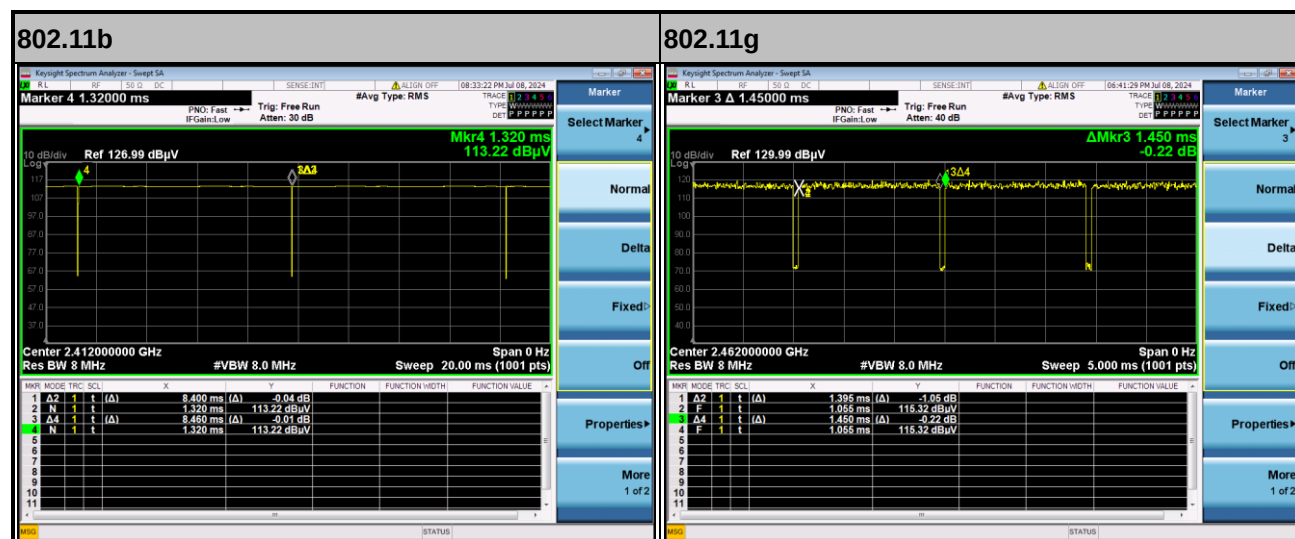
Mode	20																																																																																															
	SHF																																																																																															
	2400-2483.5_802.11g_CH01_2412MHz																																																																																															
ANT	1+2																																																																																															
Pol.	Horizontal						Vertical																																																																																									
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	<table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>24802.70</td><td>40.70</td><td>74.00</td><td>-33.30</td><td>57.22</td><td>39.42</td><td>6.98</td><td>53.38</td><td>-9.54</td><td>--</td><td>PEAK</td></tr></tbody></table>							Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	24802.70	40.70	74.00	-33.30	57.22	39.42	6.98	53.38	-9.54	--	PEAK	<table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>24813.80</td><td>40.43</td><td>74.00</td><td>-33.57</td><td>56.85</td><td>39.51</td><td>6.98</td><td>53.37</td><td>-9.54</td><td>--</td><td>PEAK</td></tr></tbody></table>						Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	24813.80	40.43	74.00	-33.57	56.85	39.51	6.98	53.37	-9.54	--
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Appendix D. Duty Cycle Plots

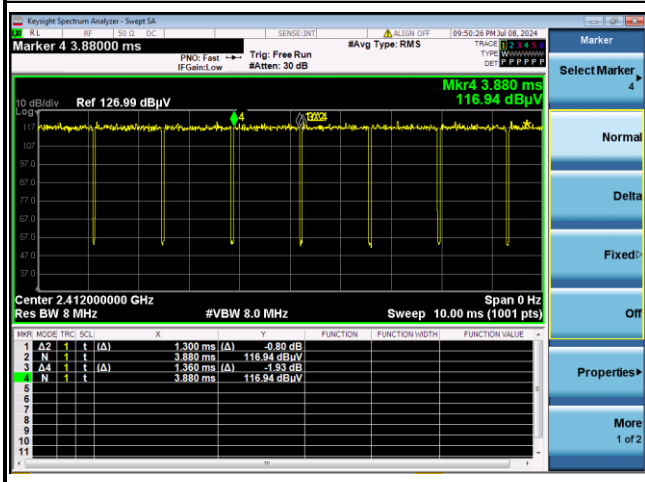
Antenna	Band	Duty Cycle(%)	T(us)	1/T(kHz)	VBW Setting
1+2	802.11b	99.29	-	-	10Hz
1+2	802.11g	96.21	1395	0.72	1kHz
1+2	802.11n HT20	95.59	1300	0.77	1kHz
1+2	802.11n HT40	91.91	648	1.54	3kHz
1+2	802.11ax HE20 Full RU	97.71	2392	0.42	1kHz
1+2	802.11ax HE40 Full RU	95.69	1244	0.80	1kHz

MIMO <Ant. 1+2>

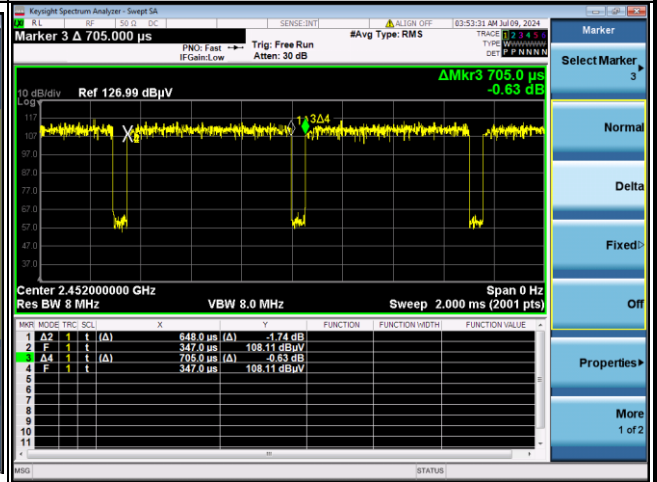




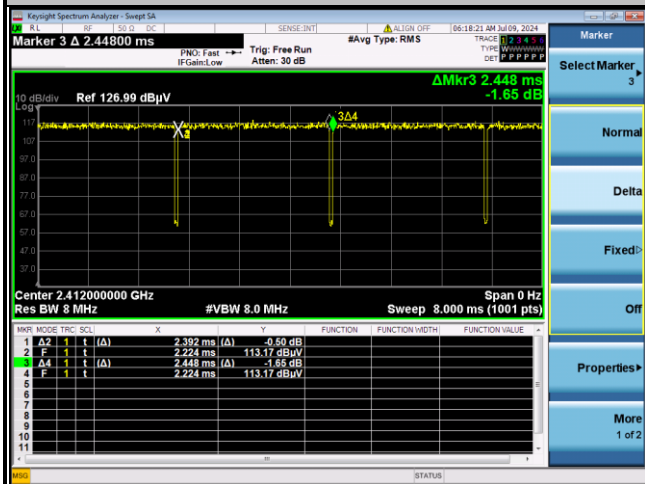
802.11n HT20



802.11n HT40



802.11ax HE20 Full RU



802.11ax HE40 Full RU

