



Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	41 ~ 42 %
		Temperature :	22 ~ 23 °C

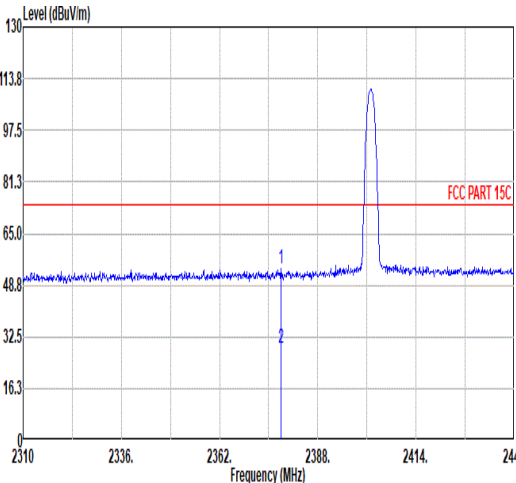
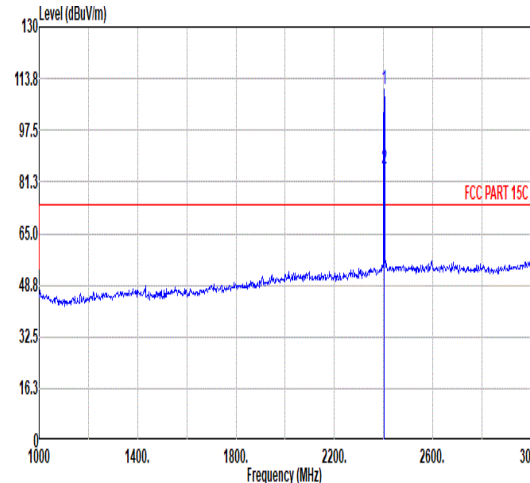
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Sample
Mode 1	2400-2483.5	1	Bluetooth BR_GFSK	0	2402	1Mbps	-	1
Mode 2	2400-2483.5	1	Bluetooth BR_GFSK	39	2441	1Mbps	-	1
Mode 3	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	1Mbps	-	1
Mode 4	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	1Mbps	-	2

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	0	2358.88	54.57	74.00	-19.43	V	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	0	4804.00	41.14	74.00	-32.86	H	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	42.91	74.00	-31.09	V	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2484.25	54.58	74.00	-19.42	H	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	43.20	74.00	-30.80	V	PEAK	Pass	Harmonic
4	Bluetooth BR_GFSK	78	2484.13	52.83	74.00	-21.17	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	42.74	74.00	-31.26	V	PEAK	Pass	Harmonic

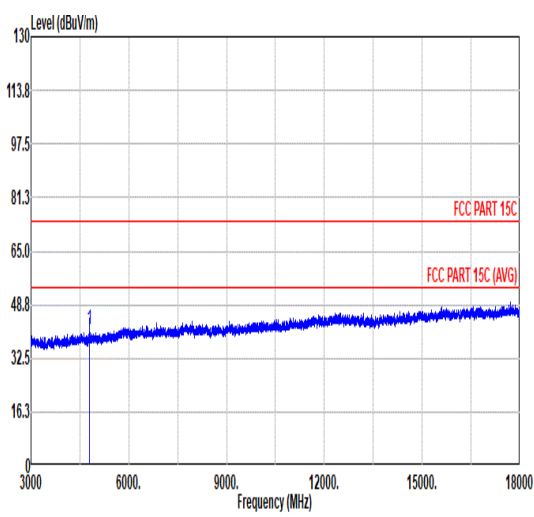
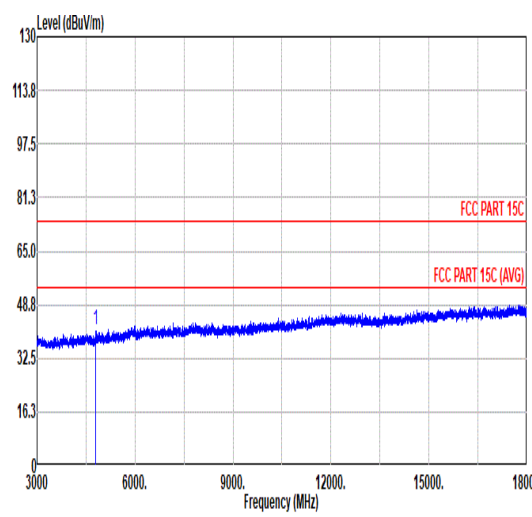


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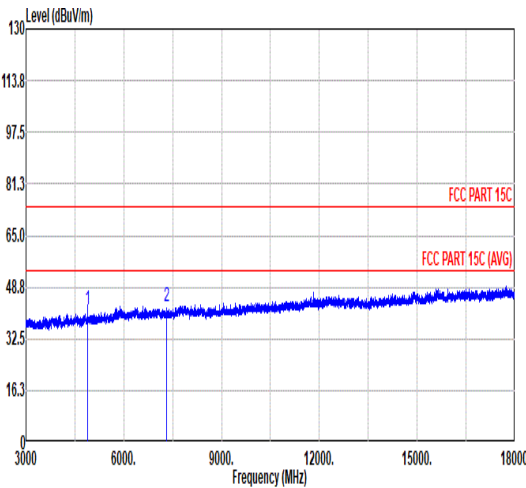
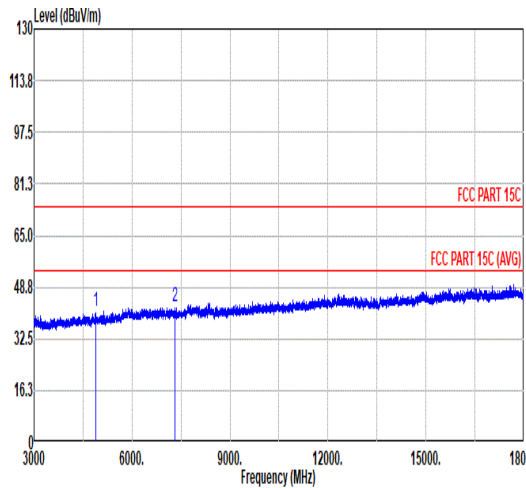


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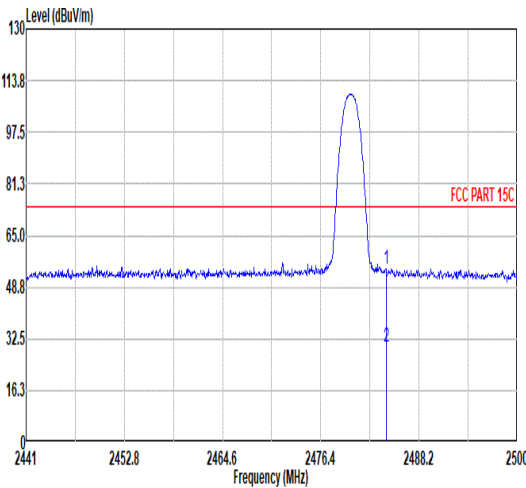
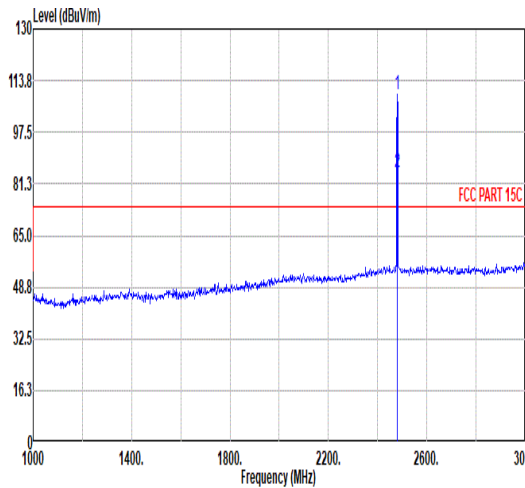


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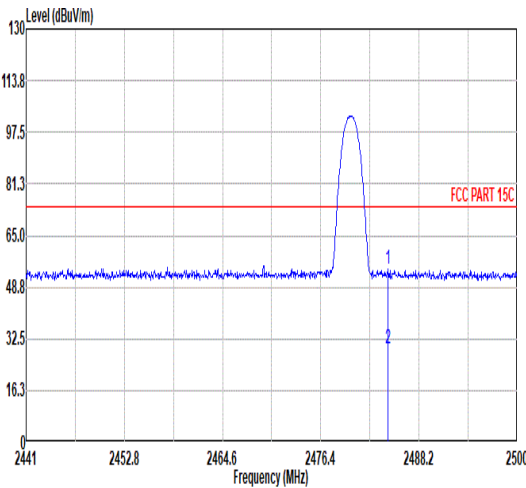
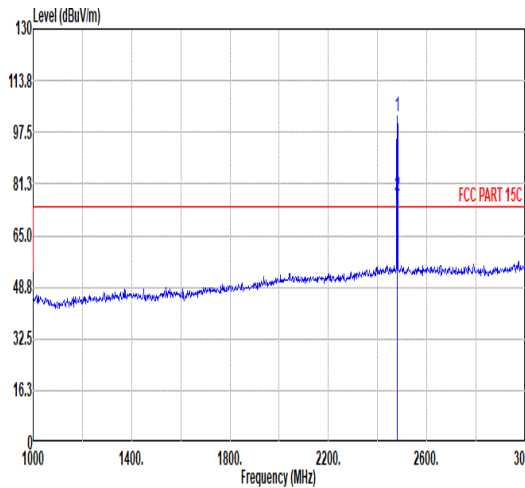


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MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																								
1	4882.00	41.08	74.00	-32.92	60.99	33.90	11.48	65.29	0.00	---	---	PEAK																																																																																																																						
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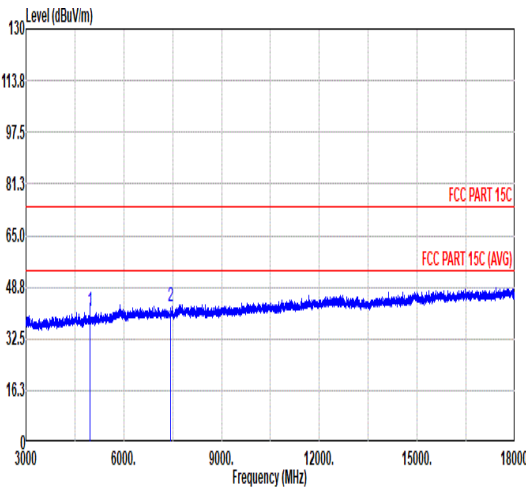
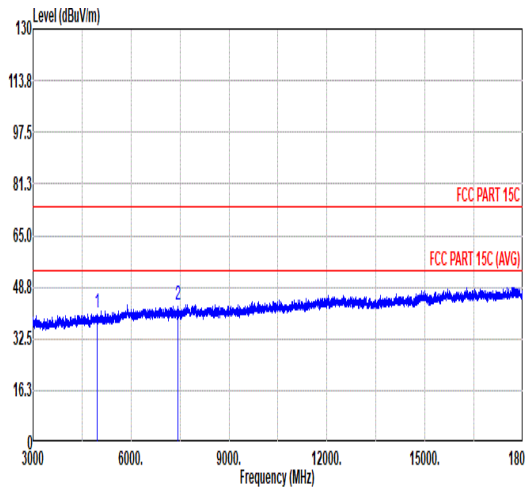


Mode	3																																																																																																																												
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Pol.	Horizontal						Fundamental																																																																																																																						
Peak	 <table><tr><th></th><th>Limit</th><th>Over</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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></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><tr><td>1</td><td>2484.25</td><td>54.58</td><td>74.00</td><td>-19.42</td><td>44.65</td><td>32.56</td><td>8.10</td><td>36.73</td><td>6.00</td><td>270</td><td>226 PEAK</td></tr><tr><td>2</td><td>2484.25</td><td>29.76</td><td>54.00</td><td>-24.24</td><td>19.83</td><td>32.56</td><td>8.10</td><td>36.73</td><td>6.00</td><td>270</td><td>226 AVERAGE</td></tr></table>							Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2484.25	54.58	74.00	-19.42	44.65	32.56	8.10	36.73	6.00	270	226 PEAK	2	2484.25	29.76	54.00	-24.24	19.83	32.56	8.10	36.73	6.00	270	226 AVERAGE	 <table><tr><th></th><th>Limit</th><th>Over</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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></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><tr><td>1</td><td>2480.00</td><td>109.57</td><td>-----</td><td>-----</td><td>99.60</td><td>32.60</td><td>8.10</td><td>36.73</td><td>6.00</td><td>270</td><td>226 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>84.75</td><td>-----</td><td>-----</td><td>74.78</td><td>32.60</td><td>8.10</td><td>36.73</td><td>6.00</td><td>270</td><td>226 AVERAGE</td></tr></table>						Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	2480.00	109.57	-----	-----	99.60	32.60	8.10	36.73	6.00	270	226 PEAK	2	2480.00	84.75	-----	-----	74.78	32.60	8.10	36.73	6.00	270	226 AVERAGE
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																				
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1	2484.25	54.58	74.00	-19.42	44.65	32.56	8.10	36.73	6.00	270	226 PEAK																																																																																																																		
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1	2480.00	109.57	-----	-----	99.60	32.60	8.10	36.73	6.00	270	226 PEAK																																																																																																																		
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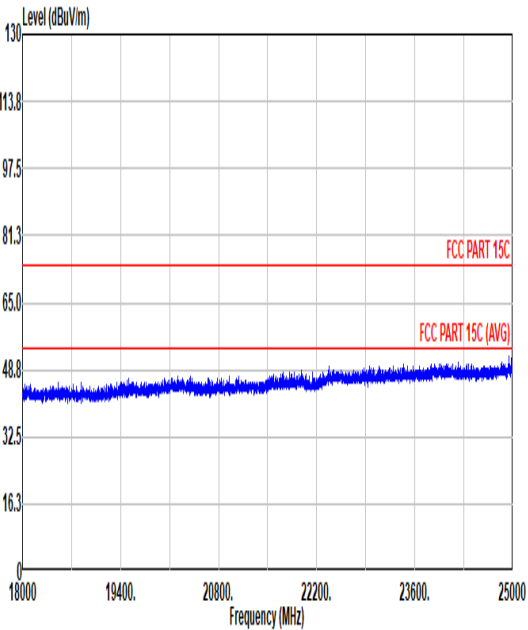
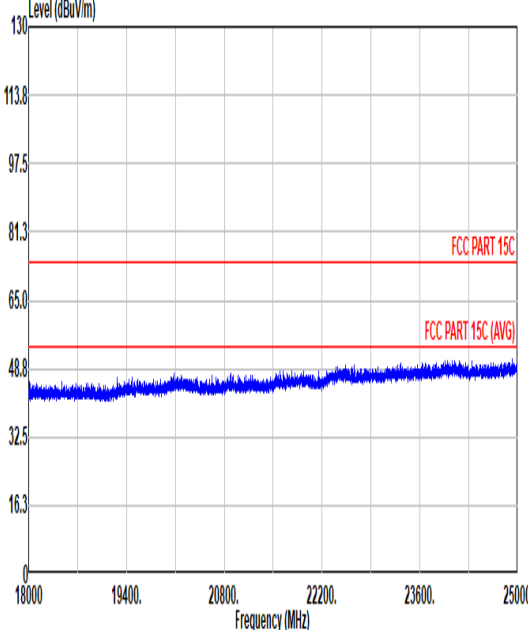


Mode	3																																																																																																																													
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		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																				
	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor	Remark																																																																																																																				
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1	2484.42	54.29	74.00	-19.71	44.36	32.56	8.10	36.73	6.00	124	121	PEAK																																																																																																																		
2	2484.42	29.47	54.00	-24.53	19.54	32.56	8.10	36.73	6.00	124	121	AVERAGE																																																																																																																		
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																					
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1	2480.00	102.52	-----	-----	92.55	32.60	8.10	36.73	6.00	124	121	PEAK																																																																																																																		
2	2480.00	77.70	-----	-----	67.73	32.60	8.10	36.73	6.00	124	121	AVERAGE																																																																																																																		

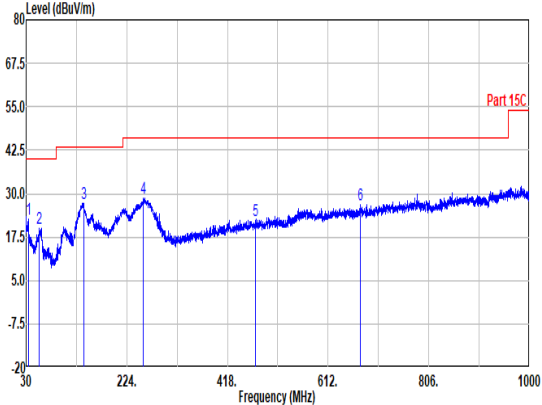
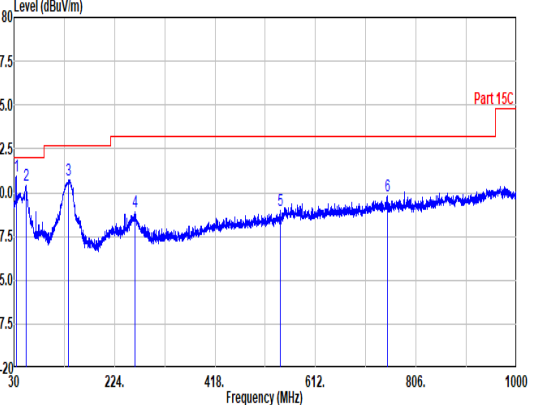


Mode	3																																																																	
	Harmonic																																																																	
	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz																																																																	
ANT	1																																																																	
Pol.	Horizontal						Vertical																																																											
Peak Avg																																																																		
	<table><tr><th></th><th>Limit</th><th>Over</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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></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><tr><td>1</td><td>4960.00</td><td>41.13</td><td>74.00</td><td>-32.87</td><td>60.97</td><td>33.92</td><td>11.59</td><td>65.35</td><td>0.00</td><td>--- PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>42.48</td><td>74.00</td><td>-31.52</td><td>58.75</td><td>35.00</td><td>14.23</td><td>66.30</td><td>0.00</td><td>--- PEAK</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4960.00	41.13	74.00	-32.87	60.97	33.92	11.59	65.35	0.00	--- PEAK	2	7440.00	42.48	74.00	-31.52	58.75	35.00	14.23	66.30	0.00	--- PEAK
		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																								
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																								
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																								
1	4960.00	41.13	74.00	-32.87	60.97	33.92	11.59	65.35	0.00	--- PEAK																																																								
2	7440.00	42.48	74.00	-31.52	58.75	35.00	14.23	66.30	0.00	--- PEAK																																																								
<table><tr><th></th><th>Limit</th><th>Over</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>Limit</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></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><tr><td>1</td><td>4960.00</td><td>40.78</td><td>74.00</td><td>-33.22</td><td>60.62</td><td>33.92</td><td>11.59</td><td>65.35</td><td>0.00</td><td>--- PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>43.20</td><td>74.00</td><td>-30.80</td><td>59.47</td><td>35.80</td><td>14.23</td><td>66.30</td><td>0.00</td><td>--- PEAK</td></tr></table>												Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos		Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg	1	4960.00	40.78	74.00	-33.22	60.62	33.92	11.59	65.35	0.00	--- PEAK	2	7440.00	43.20	74.00	-30.80	59.47	35.80	14.23	66.30	0.00	--- PEAK	
	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																									
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																								
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg																																																								
1	4960.00	40.78	74.00	-33.22	60.62	33.92	11.59	65.35	0.00	--- PEAK																																																								
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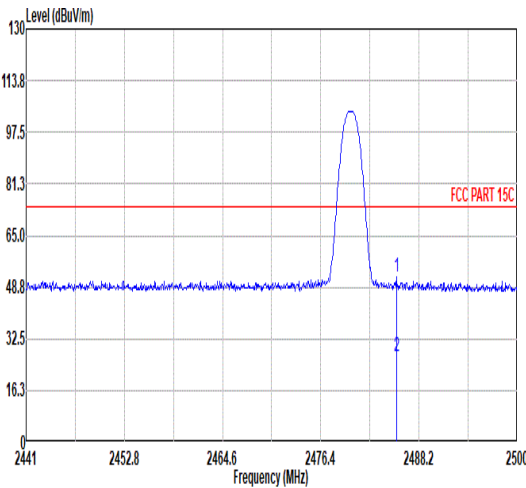
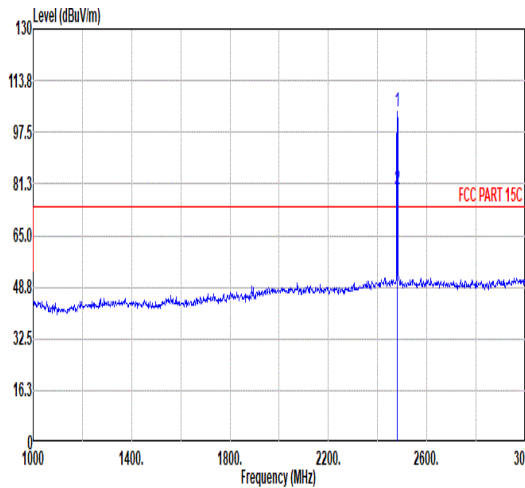


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ANT	1	
Pol.	Horizontal	Vertical
Peak Avg	 Level (dBuV/m) Frequency (MHz) FCC PART 15C FCC PART 15C (AVG)	 Level (dBuV/m) Frequency (MHz) FCC PART 15C FCC PART 15C (AVG)

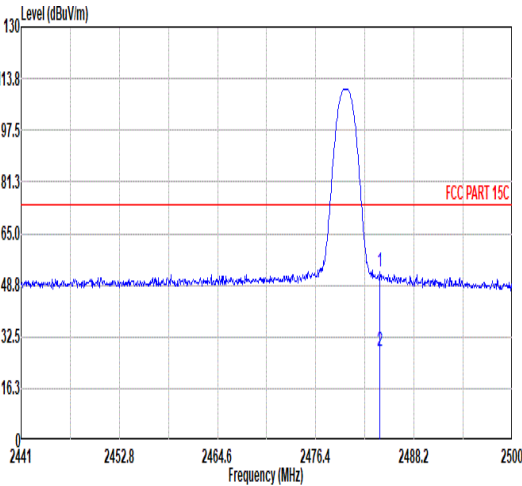
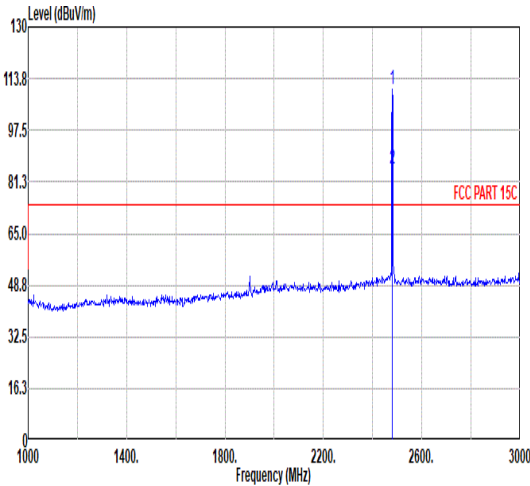


Mode	3																																																																																																												
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	Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																				
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																																			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																			
1	34.12	22.62	40.00	-17.38	31.23	22.91	0.53	32.05	0.00	--- Peak																																																																																																			
2	55.71	19.98	40.00	-20.02	38.69	12.52	0.82	32.05	0.00	--- Peak																																																																																																			
3	140.82	27.36	43.50	-16.14	40.31	17.43	1.65	32.03	0.00	--- Peak																																																																																																			
4	256.25	28.76	46.00	-17.24	38.90	19.67	2.24	32.05	0.00	--- Peak																																																																																																			
5	472.56	22.18	46.00	-23.82	27.88	23.46	3.06	32.22	0.00	--- Peak																																																																																																			
6	674.32	26.95	46.00	-19.05	29.05	26.54	3.66	32.30	0.00	--- Peak																																																																																																			
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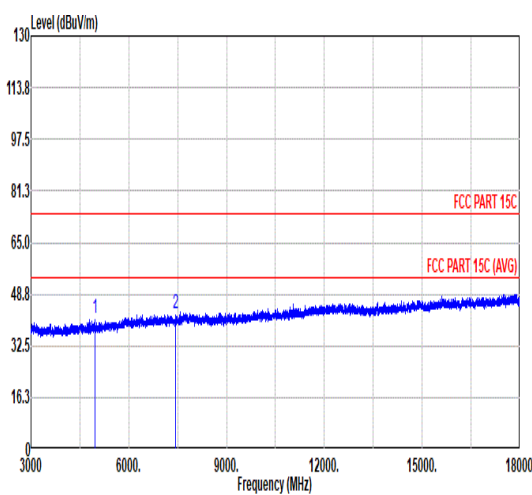
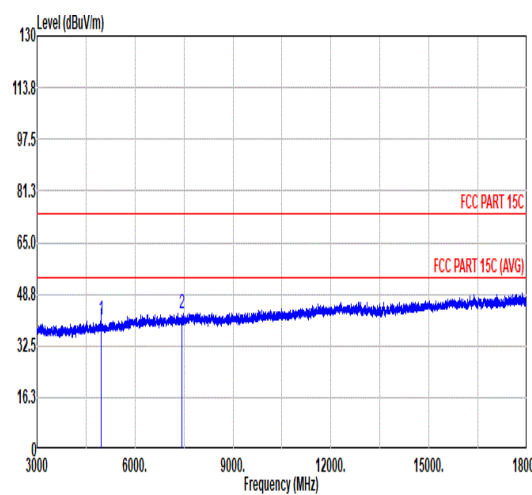


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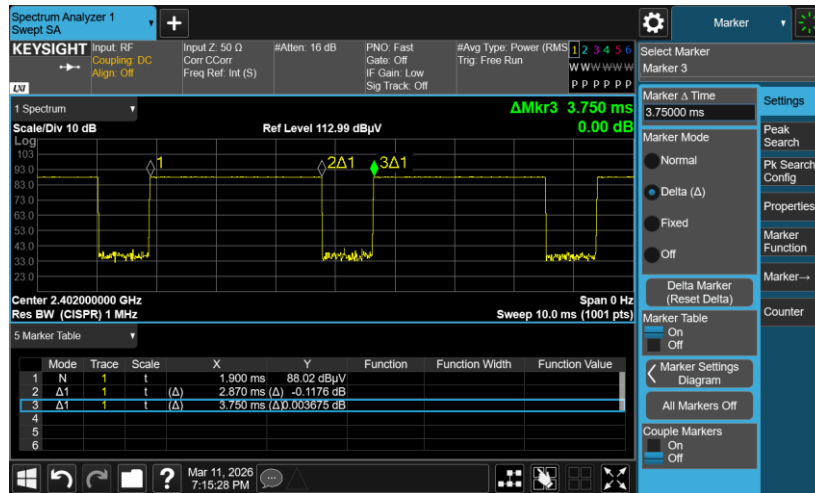
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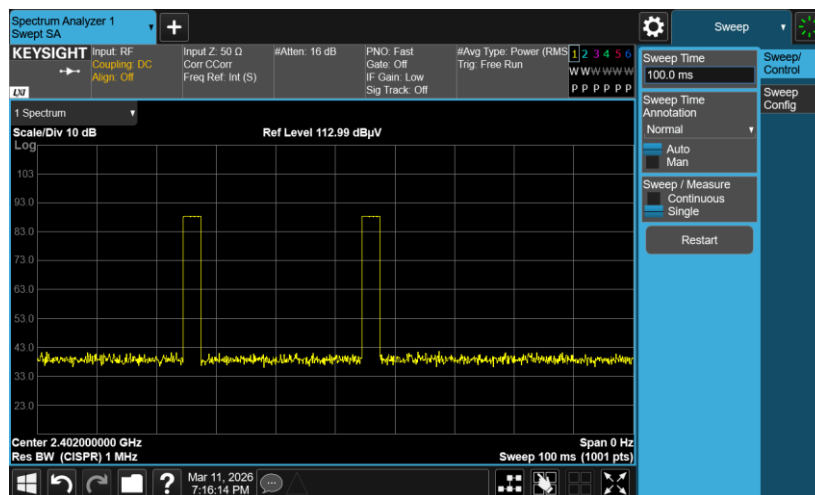
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 0



DH5 on time (Count Pulses) Plot on Channel 0



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.87 / 100 = 5.74 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.82 \text{ dB}$
3. DH5 has the highest duty cycle worst case and is reported.