



Appendix C. Radiated Spurious Emission Test Data

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

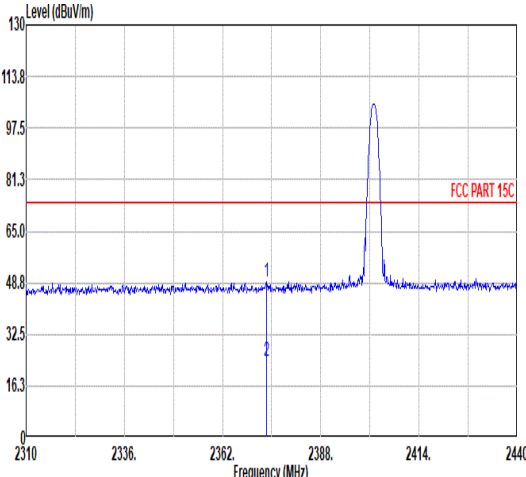
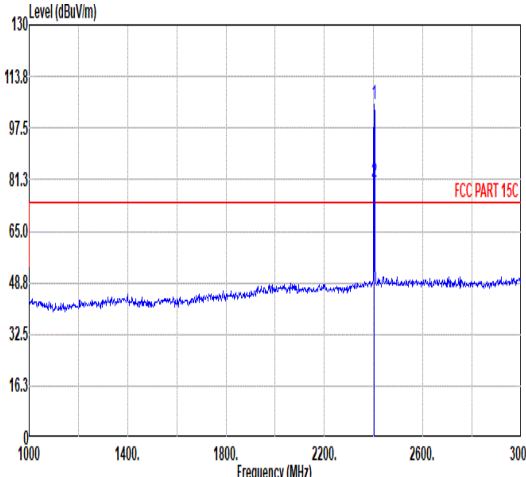
Radiated Spurious Emission Test Modes

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

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	2363.95	49.03	74.00	-24.97	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	0	4804.00	40.59	74.00	-33.41	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	42.55	74.00	-31.45	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.54	50.00	74.00	-24.00	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	43.16	74.00	-30.84	H	PEAK	Pass	Harmonic

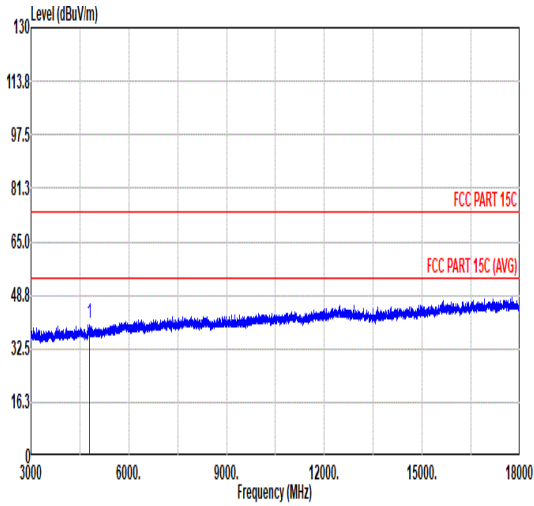
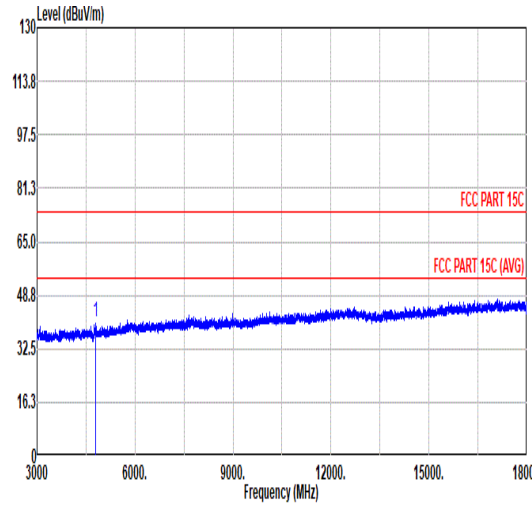


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	2400-2483.5_Bluetooth BR_GFSK_CH0_2402MHz																																																																							
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Pol.	Horizontal						Fundamental																																																																	
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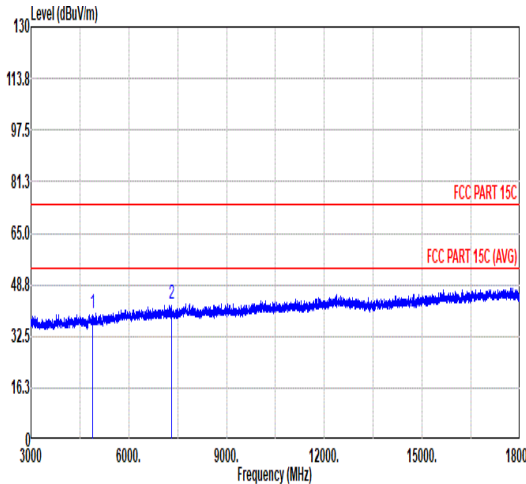
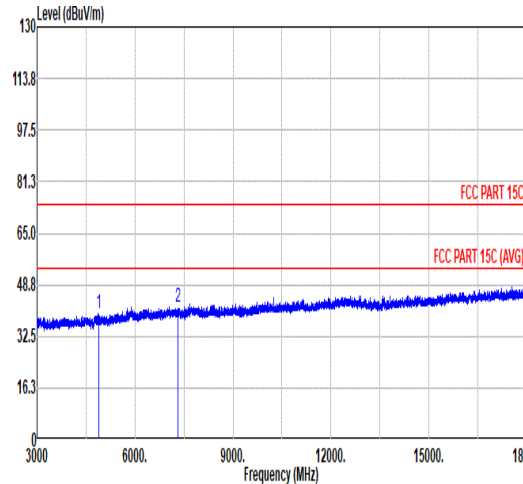


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Peak	Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a peak at 2363.95 MHz. A red line indicates the FCC PART 15C limit at 74.00 dBuV/m. The peak level is 49.03 dBuV/m. <table><tr><th></th><th>Limit</th><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>2363.95</td><td>49.03</td><td>74.00</td><td>-24.97</td><td>40.88</td><td>32.08</td><td>7.07</td><td>37.00</td><td>6.00</td><td>100</td><td>93 PEAK</td></tr><tr><td>2</td><td>2363.95</td><td>24.27</td><td>54.00</td><td>-29.73</td><td>16.12</td><td>32.08</td><td>7.07</td><td>37.00</td><td>6.00</td><td>100</td><td>93 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	2363.95	49.03	74.00	-24.97	40.88	32.08	7.07	37.00	6.00	100	93 PEAK	2	2363.95	24.27	54.00	-29.73	16.12	32.08	7.07	37.00	6.00	100	93 AVERAGE	Fundamental Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a peak at 2402.00 MHz. A red line indicates the FCC PART 15C limit at 74.00 dBuV/m. The peak level is 99.45 dBuV/m. <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>2402.00</td><td>99.45</td><td>74.00</td><td>25.45</td><td>91.00</td><td>32.32</td><td>7.12</td><td>36.99</td><td>6.00</td><td>100</td><td>93 PEAK</td></tr><tr><td>2</td><td>2402.00</td><td>74.69</td><td>74.00</td><td>0.69</td><td>66.24</td><td>32.32</td><td>7.12</td><td>36.99</td><td>6.00</td><td>100</td><td>93 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	2402.00	99.45	74.00	25.45	91.00	32.32	7.12	36.99	6.00	100	93 PEAK	2	2402.00	74.69	74.00	0.69	66.24	32.32	7.12	36.99	6.00	100	93 AVERAGE
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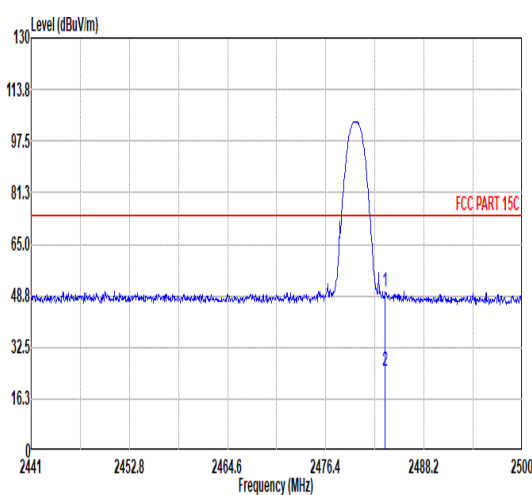
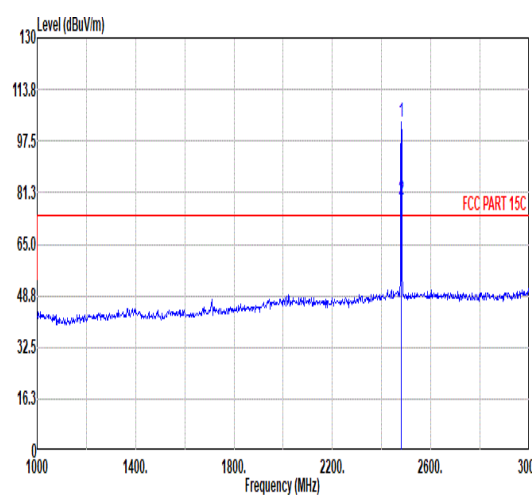


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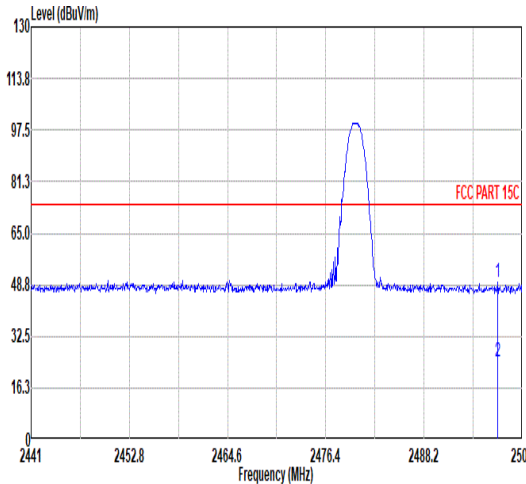
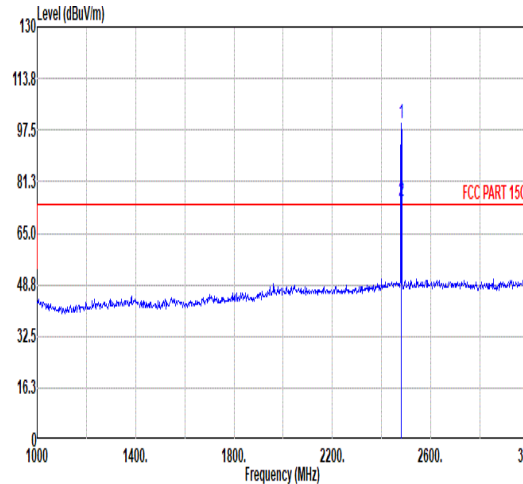


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Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																																																				
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1	4882.00	39.88	74.00	-34.12	61.25	33.90	10.30	65.57	0.00	---	PEAK																																																																																																																			
2	7323.00	41.69	74.00	-32.31	59.18	35.00	12.72	66.01	0.00	---	PEAK																																																																																																																			



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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>2483.54</td><td>50.00</td><td>74.00</td><td>-24.00</td><td>41.23</td><td>32.56</td><td>7.26</td><td>37.05</td><td>6.00</td><td>119</td><td>72 PEAK</td></tr><tr><td>2</td><td>2483.54</td><td>25.24</td><td>54.00</td><td>-28.76</td><td>16.47</td><td>32.56</td><td>7.26</td><td>37.05</td><td>6.00</td><td>119</td><td>72 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	2483.54	50.00	74.00	-24.00	41.23	32.56	7.26	37.05	6.00	119	72 PEAK	2	2483.54	25.24	54.00	-28.76	16.47	32.56	7.26	37.05	6.00	119	72 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>103.67</td><td>-----</td><td>-----</td><td>94.87</td><td>32.60</td><td>7.25</td><td>37.05</td><td>6.00</td><td>119</td><td>72 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>78.91</td><td>-----</td><td>-----</td><td>70.11</td><td>32.60</td><td>7.25</td><td>37.05</td><td>6.00</td><td>119</td><td>72 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	103.67	-----	-----	94.87	32.60	7.25	37.05	6.00	119	72 PEAK	2	2480.00	78.91	-----	-----	70.11	32.60	7.25	37.05	6.00	119	72 AVERAGE
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Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor		Remark																																																																																																																			
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1	2483.54	50.00	74.00	-24.00	41.23	32.56	7.26	37.05	6.00	119	72 PEAK																																																																																																																		
2	2483.54	25.24	54.00	-28.76	16.47	32.56	7.26	37.05	6.00	119	72 AVERAGE																																																																																																																		
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1	2480.00	103.67	-----	-----	94.87	32.60	7.25	37.05	6.00	119	72 PEAK																																																																																																																		
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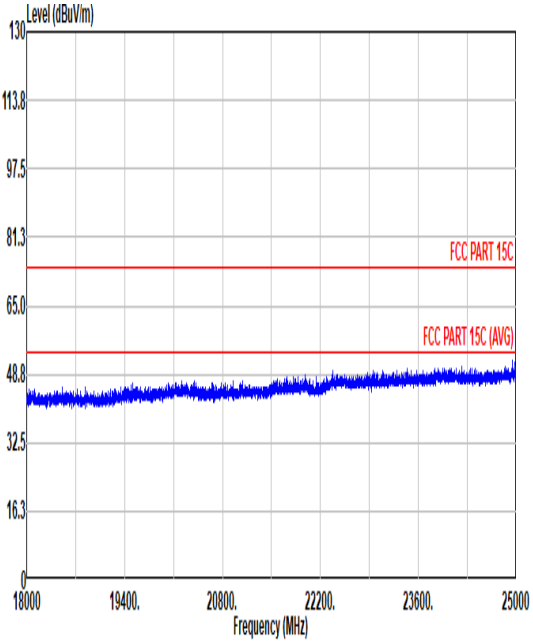
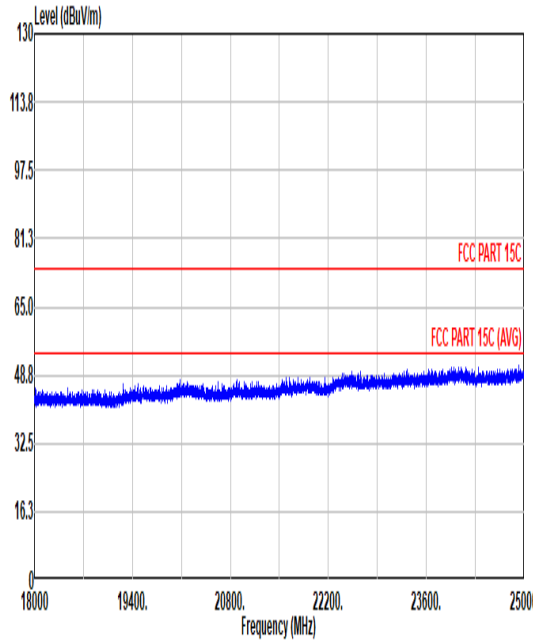


Mode	3																																																																						
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Pol.	Vertical						Fundamental																																																																
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	<table><tr><th colspan="2"></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 rowspan="2">Remark</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></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</td><td>2497.05</td><td>49.34</td><td>74.00</td><td>-24.66</td><td>40.69</td><td>32.43</td><td>7.28</td><td>37.06</td><td>6.00</td><td>100</td><td>96 PEAK</td></tr><tr><td>2</td><td>2497.05</td><td>24.58</td><td>54.00</td><td>-29.42</td><td>15.93</td><td>32.43</td><td>7.28</td><td>37.06</td><td>6.00</td><td>100</td><td>96 AVERAGE</td></tr></table>														Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2497.05	49.34	74.00	-24.66	40.69	32.43	7.28	37.06	6.00	100	96 PEAK	2	2497.05	24.58	54.00	-29.42	15.93	32.43	7.28	37.06	6.00	100	96 AVERAGE
			Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																											
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																															
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																													
1	2497.05	49.34	74.00	-24.66	40.69	32.43	7.28	37.06	6.00	100	96 PEAK																																																												
2	2497.05	24.58	54.00	-29.42	15.93	32.43	7.28	37.06	6.00	100	96 AVERAGE																																																												
<table><tr><th colspan="2"></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 rowspan="2">Remark</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></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</td><td>2480.00</td><td>99.81</td><td>-----</td><td>-----</td><td>91.01</td><td>32.60</td><td>7.25</td><td>37.05</td><td>6.00</td><td>100</td><td>96 PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>75.05</td><td>-----</td><td>-----</td><td>66.25</td><td>32.60</td><td>7.25</td><td>37.05</td><td>6.00</td><td>100</td><td>96 AVERAGE</td></tr></table>														Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor			MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2480.00	99.81	-----	-----	91.01	32.60	7.25	37.05	6.00	100	96 PEAK	2	2480.00	75.05	-----	-----	66.25	32.60	7.25	37.05	6.00	100	96 AVERAGE	
		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																												
Freq	Level	Line	Limit	Level	Factor	Loss	Factor	Factor																																																															
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																													
1	2480.00	99.81	-----	-----	91.01	32.60	7.25	37.05	6.00	100	96 PEAK																																																												
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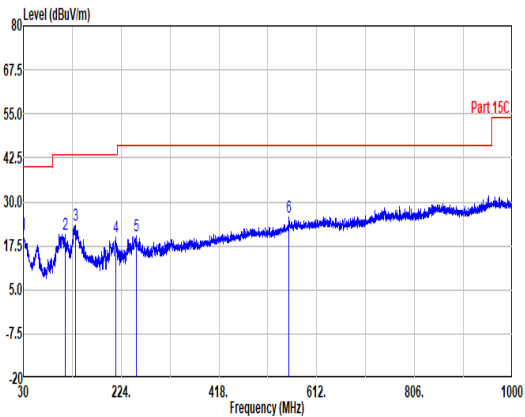
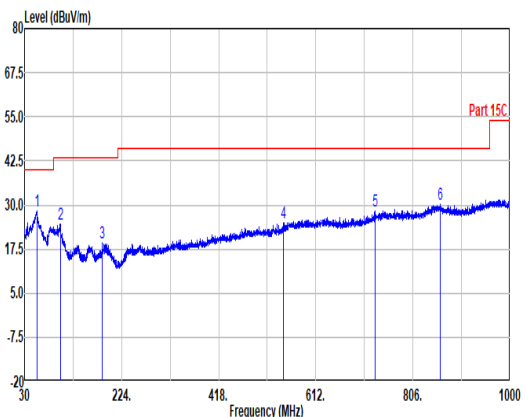


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Pol.	Horizontal						Vertical																																																																																																																						
Peak Avg	Level (dBuV/m) Frequency (MHz) FCC PART 15C FCC PART 15C (AVG) 1 2						Level (dBuV/m) Frequency (MHz) FCC PART 15C FCC PART 15C (AVG) 1 2																																																																																																																						
	<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>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></tr><tr><td>1</td><td>4960.00</td><td>39.67</td><td>74.00</td><td>-34.33</td><td>60.77</td><td>33.92</td><td>10.40</td><td>65.42</td><td>0.00</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>43.16</td><td>74.00</td><td>-30.84</td><td>60.85</td><td>35.00</td><td>12.78</td><td>66.27</td><td>0.00</td><td>---</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	dB	cm	deg	1	4960.00	39.67	74.00	-34.33	60.77	33.92	10.40	65.42	0.00	---	PEAK	2	7440.00	43.16	74.00	-30.84	60.85	35.00	12.78	66.27	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>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></tr><tr><td>1</td><td>4960.00</td><td>39.59</td><td>74.00</td><td>-34.41</td><td>60.69</td><td>33.92</td><td>10.40</td><td>65.42</td><td>0.00</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>41.59</td><td>74.00</td><td>-32.41</td><td>59.28</td><td>35.00</td><td>12.78</td><td>66.27</td><td>0.00</td><td>---</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	dB	cm	deg	1	4960.00	39.59	74.00	-34.41	60.69	33.92	10.40	65.42	0.00	---	PEAK	2	7440.00	41.59	74.00	-32.41	59.28	35.00	12.78	66.27	0.00	---	PEAK
		Limit	Over	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																			
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1	4960.00	39.67	74.00	-34.33	60.77	33.92	10.40	65.42	0.00	---	PEAK																																																																																																																		
2	7440.00	43.16	74.00	-30.84	60.85	35.00	12.78	66.27	0.00	---	PEAK																																																																																																																		
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MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg																																																																																																																			
1	4960.00	39.59	74.00	-34.41	60.69	33.92	10.40	65.42	0.00	---	PEAK																																																																																																																		
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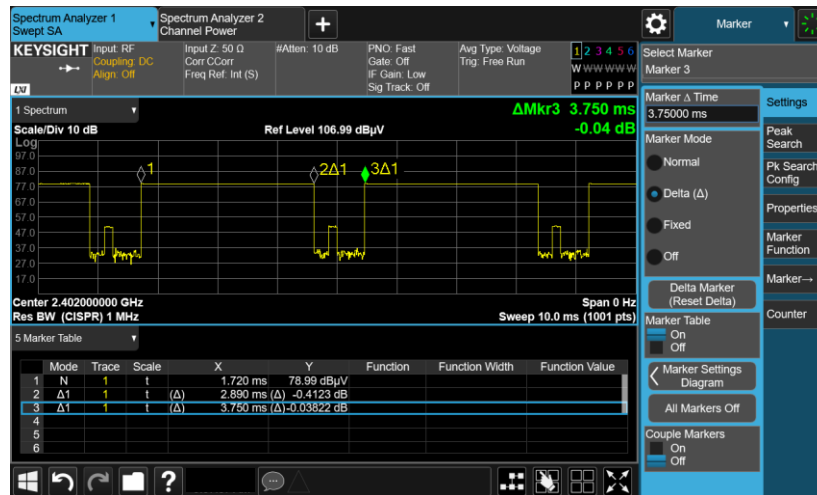
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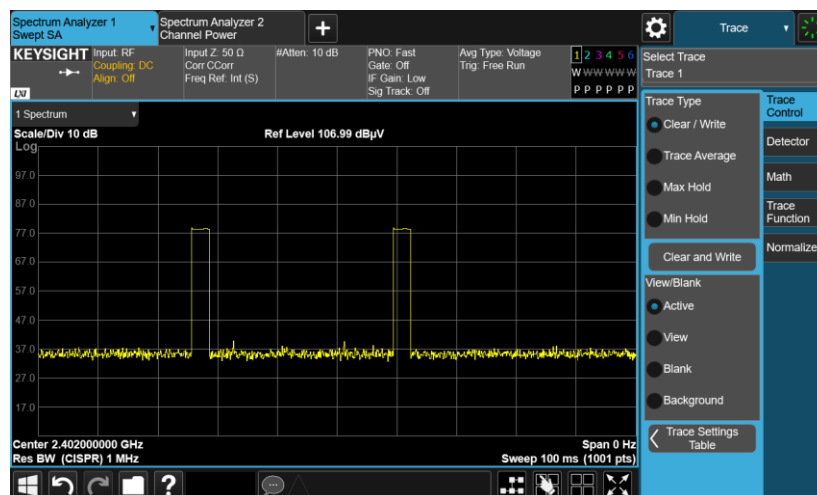
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Appendix D. Duty Cycle Plots

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



Note:

1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.89 / 100 = 5.78 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.76 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.