



1

Mode

Band Edge

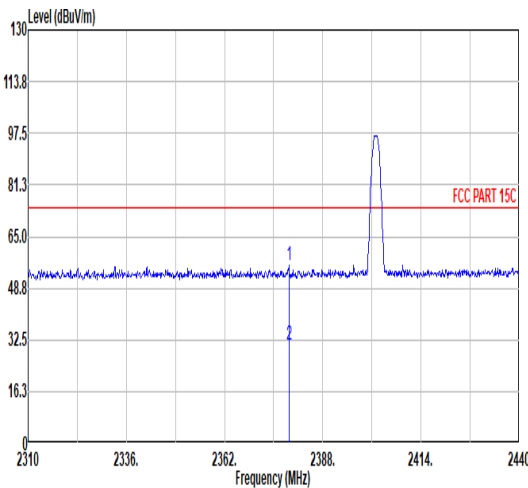
2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz

Pol.

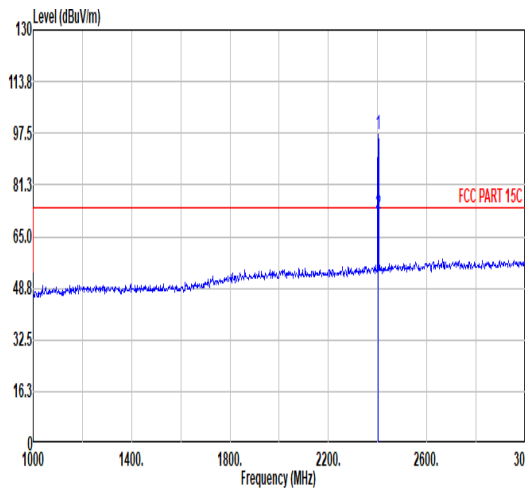
Vertical

Fundamental

Peak



	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
1	2379.03	55.72	74.00	-18.28	41.57	31.95	7.10	30.90	6.00
2	2379.03	30.87	54.00	-23.13	16.72	31.95	7.10	30.90	6.00



	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
1	2402.00	97.03	74.00	23.03	82.77	32.00	7.13	30.87	6.00
2	2402.00	72.18	54.00	18.18	57.92	32.00	7.13	30.87	6.00



Mode	1																																																																																																		
	Harmonic																																																																																																		
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																		
Pol.	Horizontal						Vertical																																																																																												
Peak Avg																																																																																																			
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																											
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2

Mode

Harmonic

2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz

Pol.

Horizontal

Vertical

Peak

Avg

Horizontal Peak Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes two red limit lines: FCC PART 15C at 70.0 dBuV/m and FCC PART 15C (AVG) at 52.5 dBuV/m. The blue test signal is below both limits. Two vertical markers are present: 1 at 4882.00 MHz and 2 at 7323.00 MHz.

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	4882.00	39.61	74.00	-34.39	60.56	34.10	10.39	65.44	0.00	---	---	PEAK
2	7323.00	41.79	74.00	-32.21	58.42	35.00	12.82	65.25	0.00	---	---	PEAK

Vertical Peak Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes two red limit lines: FCC PART 15C at 70.0 dBuV/m and FCC PART 15C (AVG) at 52.5 dBuV/m. The blue test signal is below both limits. Two vertical markers are present: 1 at 4882.00 MHz and 2 at 7323.00 MHz.

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark			
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor				
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	cm	deg		
1	4882.00	39.37	74.00	-34.63	60.32	34.10	10.39	65.44	0.00	---	---	PEAK
2	7323.00	42.13	74.00	-31.87	58.76	35.00	12.82	65.25	0.00	---	---	PEAK



3

Mode

Band Edge

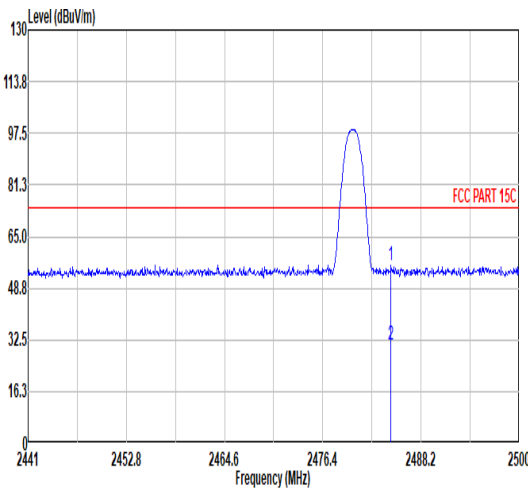
2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz

Pol.

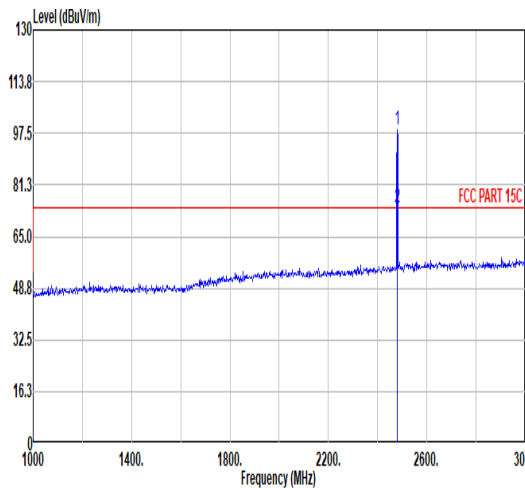
Horizontal

Fundamental

Peak



	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	2484.60	55.87	74.00	-18.13	41.09	32.13	7.29	30.64	6.00	339	176	PEAK
2	2484.60	31.02	54.00	-22.98	16.24	32.13	7.29	30.64	6.00	339	176	AVERAGE



	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	2480.00	98.69	74.00	24.69	83.95	32.12	7.28	30.66	6.00	339	176	PEAK
2	2480.00	73.84	54.00	19.84	59.10	32.12	7.28	30.66	6.00	339	176	AVERAGE



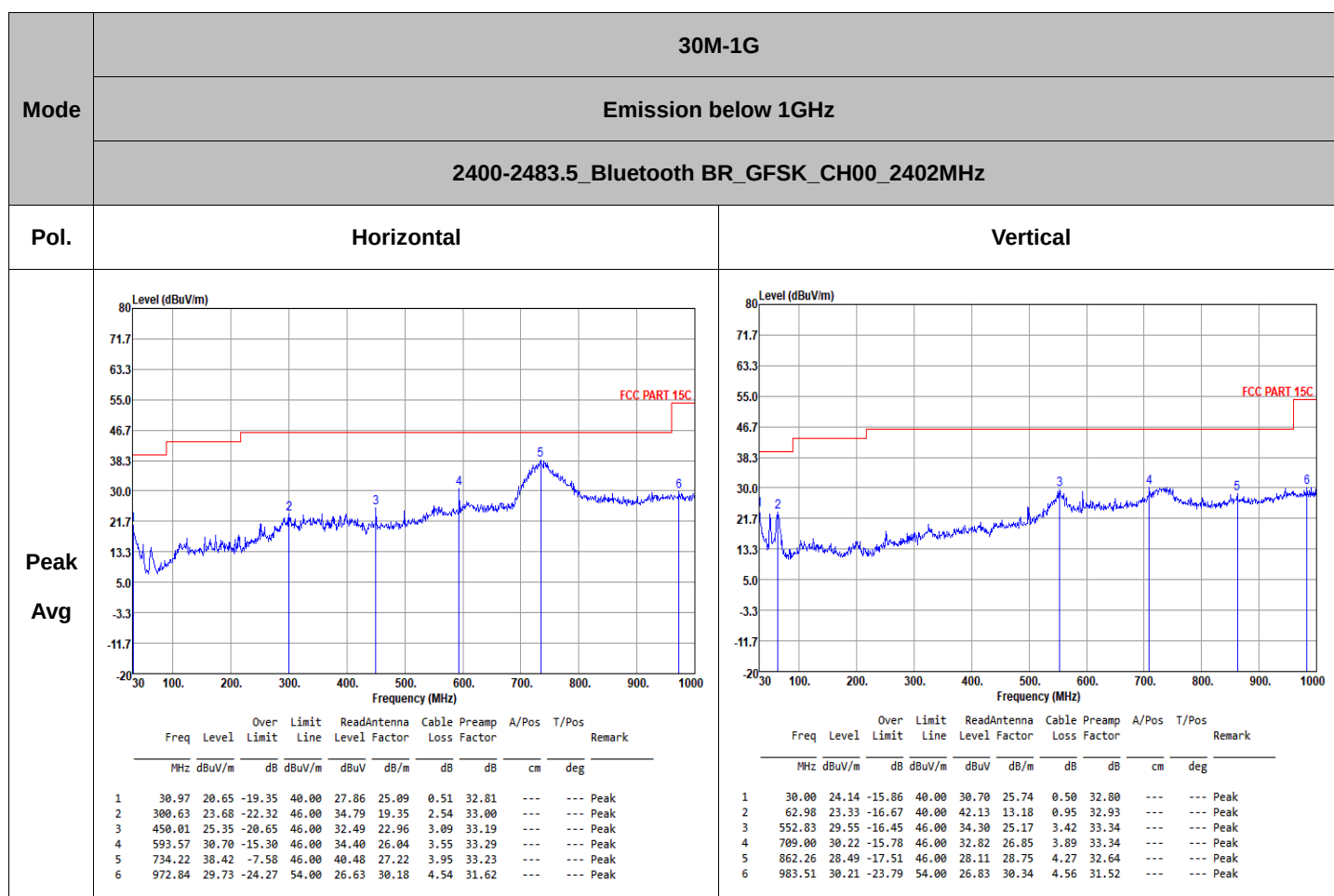
Mode	3																																																																																																																																											
	Band Edge																																																																																																																																											
	2400-2483.5 Bluetooth BR_GFSK_CH78_2480MHz																																																																																																																																											
Pol.	Vertical											Fundamental																																																																																																																																
Peak	Vertical Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a peak at 2498.05 MHz. A red line indicates the FCC PART 15C limit at 74.00 dBuV/m. The peak level is 56.11 dBuV/m. The plot also shows a noise floor around 48.8 dBuV/m. <table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2498.05</td><td>56.11</td><td>74.00</td><td>-17.89</td><td>41.25</td><td>32.15</td><td>7.32</td><td>30.61</td><td>6.00</td><td>104</td><td>193</td><td>PEAK</td></tr><tr><td>2</td><td>2498.05</td><td>31.26</td><td>54.00</td><td>-22.74</td><td>16.40</td><td>32.15</td><td>7.32</td><td>30.61</td><td>6.00</td><td>104</td><td>193</td><td>AVERAGE</td></tr></table>													Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor					MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2498.05	56.11	74.00	-17.89	41.25	32.15	7.32	30.61	6.00	104	193	PEAK	2	2498.05	31.26	54.00	-22.74	16.40	32.15	7.32	30.61	6.00	104	193	AVERAGE	Fundamental Polarization Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot shows a peak at 2480.00 MHz. A red line indicates the FCC PART 15C limit at 74.00 dBuV/m. The peak level is 96.48 dBuV/m. The plot also shows a noise floor around 48.8 dBuV/m. <table><tr><th colspan="2"></th><th colspan="2">Limit</th><th colspan="2">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>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th><th></th><th></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>dB</th><th>cm</th><th>deg</th><th></th></tr><tr><td>1</td><td>2480.00</td><td>96.48</td><td>74.00</td><td>22.48</td><td>81.74</td><td>32.12</td><td>7.28</td><td>30.66</td><td>6.00</td><td>104</td><td>193</td><td>PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>71.63</td><td>54.00</td><td>17.63</td><td>56.89</td><td>32.12</td><td>7.28</td><td>30.66</td><td>6.00</td><td>104</td><td>193</td><td>AVERAGE</td></tr></table>			Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor					MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		1	2480.00	96.48	74.00	22.48	81.74	32.12	7.28	30.66	6.00	104	193	PEAK	2	2480.00	71.63	54.00	17.63	56.89	32.12	7.28	30.66	6.00	104	193	AVERAGE
		Limit		Read		Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																																																
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Mode	3																																																																									
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	2400-2483.5 Bluetooth BR_GFSK_CH78_2480MHz																																																																									
Pol.	Horizontal						Vertical																																																																			
Peak Avg	Horizontal Peak Average Spectrum Plot showing Level (dBuV/m) vs Frequency (MHz). The plot includes two red limit lines: FCC PART 15C at 70.0 dBuV/m and FCC PART 15C (AVG) at 52.5 dBuV/m. The blue test signal is below both limits. Two vertical blue lines mark frequencies 1 (4960.00 MHz) and 2 (7440.00 MHz). <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 colspan="3"></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 colspan="3">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><th></th></tr></thead><tbody><tr><td>1</td><td>4960.00</td><td>40.20</td><td>74.00</td><td>-33.80</td><td>61.05</td><td>34.10</td><td>10.50</td><td>65.45</td><td>0.00</td><td>---</td><td>---</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>41.01</td><td>74.00</td><td>-32.99</td><td>57.67</td><td>35.00</td><td>12.87</td><td>65.33</td><td>0.00</td><td>---</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	4960.00	40.20	74.00	-33.80	61.05	34.10	10.50	65.45	0.00	---	---	PEAK	2	7440.00	41.01	74.00	-32.99	57.67	35.00	12.87	65.33	0.00	---	---	PEAK
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																		
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Mode	18-25G	
	Emission above 18GHz	
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz	
ANT	1	
Pol.	Horizontal	Vertical
Peak		
Avg		





5

Mode

Band Edge - L

2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz

Pol.

Horizontal

Fundamental

Peak

		Limit		Read		Ant		Cable		Preamp		Aux		APos		TPos				
Freq		Level	Margin	Level	Factor	Loss	Factor	Loss	Factor	Loss	Factor	Loss	Factor	Loss	Factor	Loss	Factor	Remark		
MHz		dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB	cm	deg		
1	2317.80	57.09	74.00	-16.91	41.59	31.59	8.89	30.98	6.00	313	237	PEAK								
2	2317.80	32.24	54.00	-21.76	16.74	31.59	8.89	30.98	6.00	313	237	AVERAGE								

		Limit		Read		Ant		Cable		Preamp		Aux		APos		TPos				
Freq		Level	Margin	Level	Factor	Loss	Factor	Loss	Factor	Loss	Factor	Loss	Factor	Loss	Factor	Loss	Factor	Remark		
MHz		dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	dB	dB	dB	dB	dB	dB	dB	cm	deg		
1	2402.00	104.03	74.00	30.03	88.08	31.92	8.97	30.94	6.00	313	237	Peak								
2	2402.00	79.18	74.00	5.18	63.23	31.92	8.97	30.94	6.00	313	237	Average								
3	2480.00	96.47	74.00	22.47	79.75	32.30	9.30	30.88	6.00	313	237	Peak								



5

Mode

Band Edge - L

2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz

Pol.

Vertical

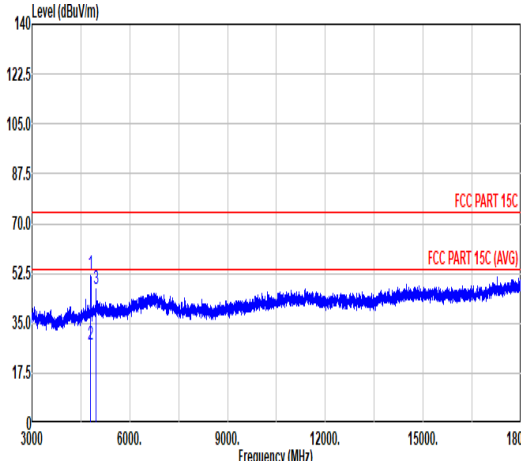
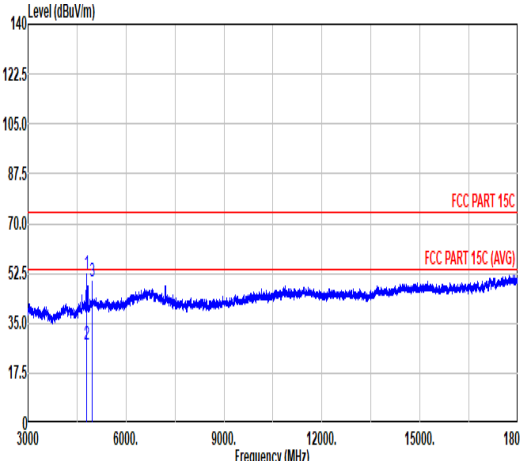
Fundamental

Peak

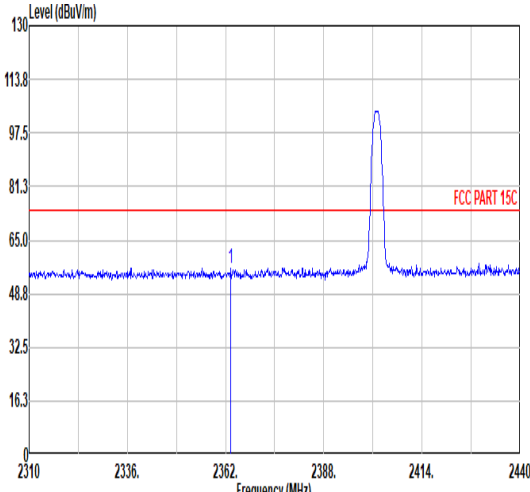
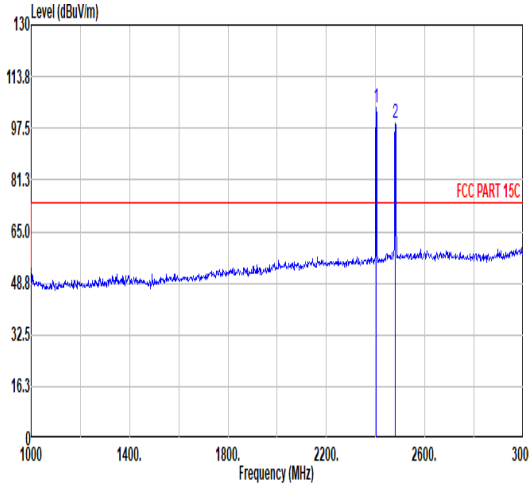
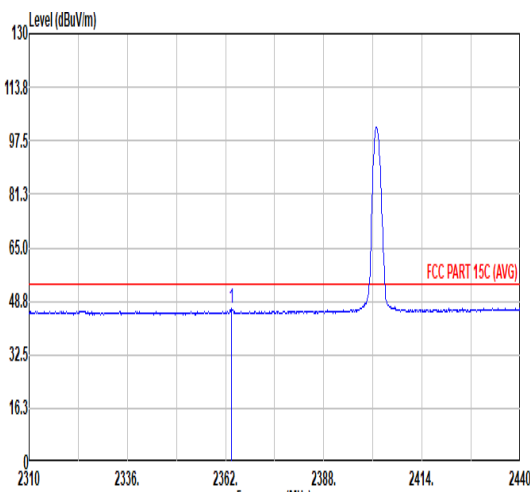
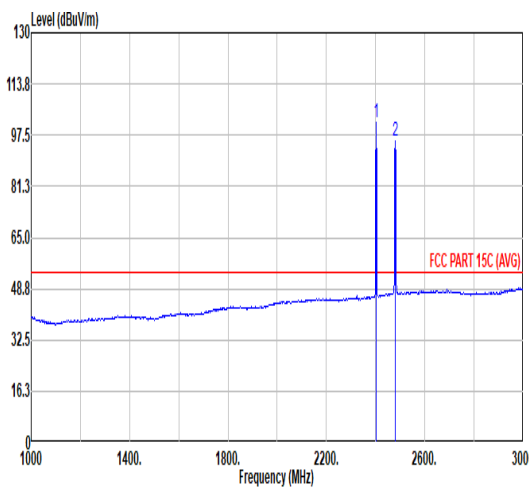
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Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2377.73	57.59	74.00	-16.41	41.92	31.68	8.94	30.95	6.00	266	54 PEAK
2	2377.73	32.74	54.00	-21.26	17.07	31.68	8.94	30.95	6.00	266	54 AVERAGE

	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark		
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor			
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2402.00	104.75	74.00	30.75	88.00	31.92	8.97	30.94	6.00	266	54 Peak
2	2402.00	79.90	74.00	5.90	63.95	31.92	8.97	30.94	6.00	266	54 Average
3	2480.00	96.12	74.00	22.12	79.40	32.30	9.30	30.88	6.00	266	54 Peak

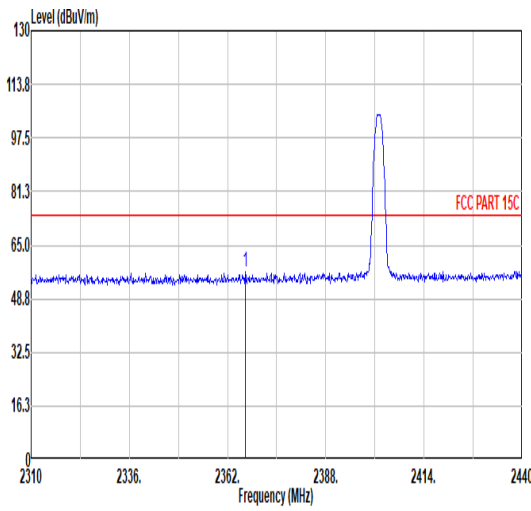
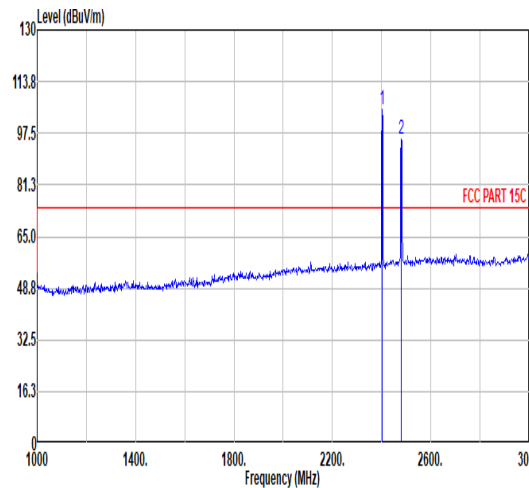
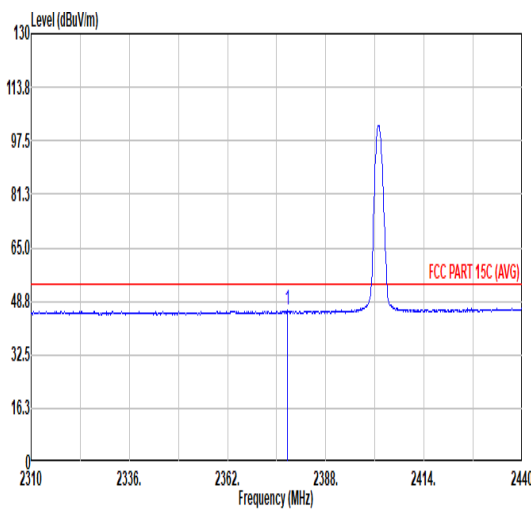
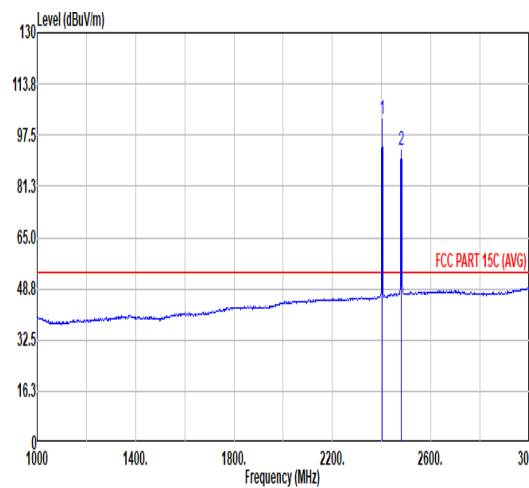


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Pol.	Horizontal																																																																																		
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																									
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3	4960.00	47.28	74.00	-26.72	64.85	34.14	13.69	65.40	0.00	---	---	Peak																																																																							
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																									
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2	4804.00	27.61	54.00	-26.39	45.42	34.28	13.60	65.69	0.00	104	7	Average																																																																							
3	4960.00	49.66	74.00	-24.34	67.23	34.14	13.69	65.40	0.00	---	---	Peak																																																																							

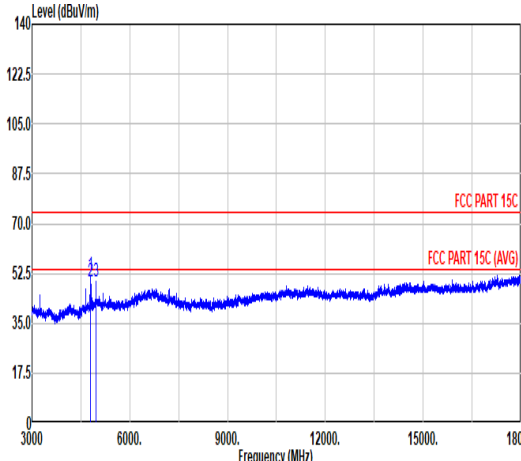
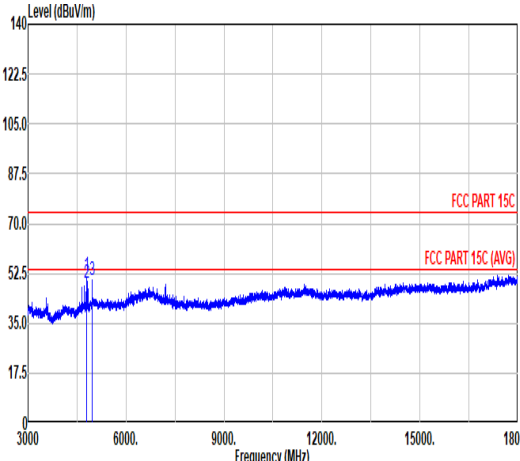


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Pol.		Horizontal					Fundamental																																																													
Peak		 Level (dBuV/m) Frequency (MHz) FCC PART 15C <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</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></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></thead><tbody><tr><td>1</td><td>2363.30</td><td>56.63</td><td>74.00</td><td>-17.37</td><td>41.13</td><td>31.53</td><td>8.93</td><td>30.96</td><td>6.00</td><td>300</td><td>242</td><td>PEAK</td></tr></tbody></table>											Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2363.30	56.63	74.00	-17.37	41.13	31.53	8.93	30.96	6.00	300	242	PEAK													
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																										
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																											
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor																																																												
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1	2402.00	104.23	74.00	30.23	88.28	31.92	8.97	30.94	6.00	300	242	Peak																																																								
2	2480.00	98.99	74.00	24.99	82.27	32.30	9.30	30.88	6.00	300	242	Peak																																																								
Avg		 Level (dBuV/m) Frequency (MHz) FCC PART 15C (AVG) <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>Remark</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></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></thead><tbody><tr><td>1</td><td>2363.56</td><td>46.40</td><td>54.00</td><td>-7.60</td><td>30.89</td><td>31.54</td><td>8.93</td><td>30.96</td><td>6.00</td><td>300</td><td>242</td><td>AVERAGE</td></tr></tbody></table>											Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor		MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	1	2363.56	46.40	54.00	-7.60	30.89	31.54	8.93	30.96	6.00	300	242	AVERAGE													
		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																										
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																											
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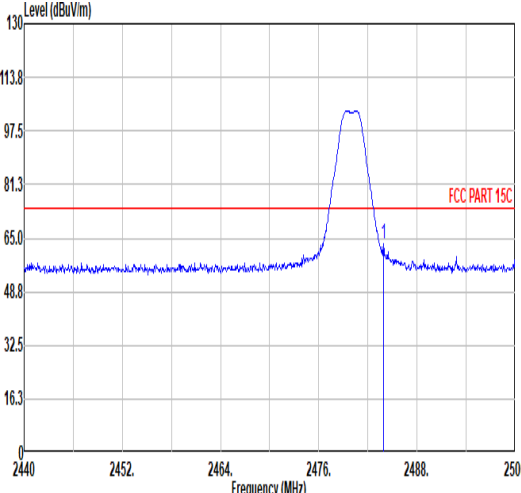
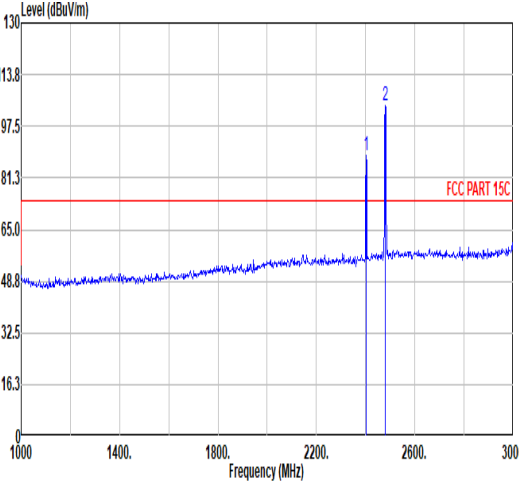
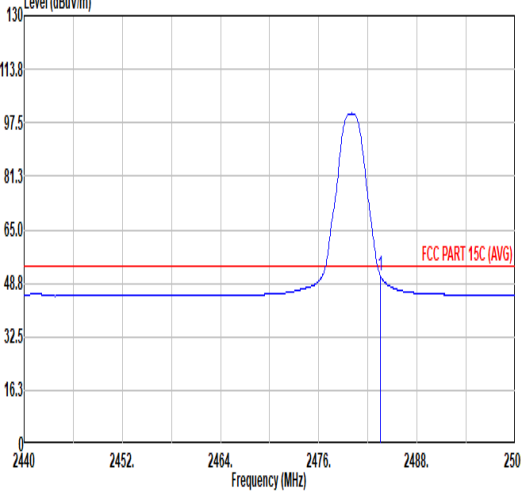
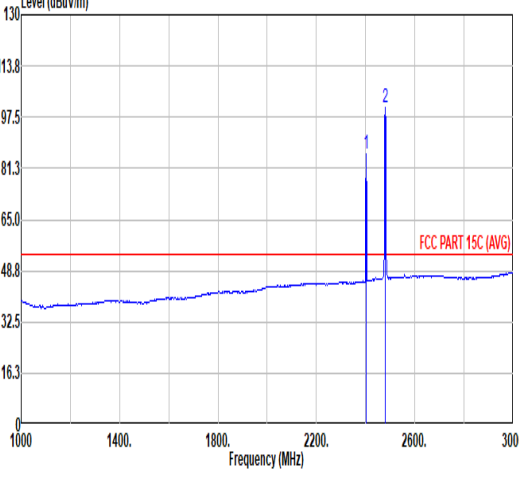


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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																																																																							
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2	2480.00	95.70	74.00	21.70	78.98	32.30	9.30	30.88	6.00	268	55 Peak																																																																																																					
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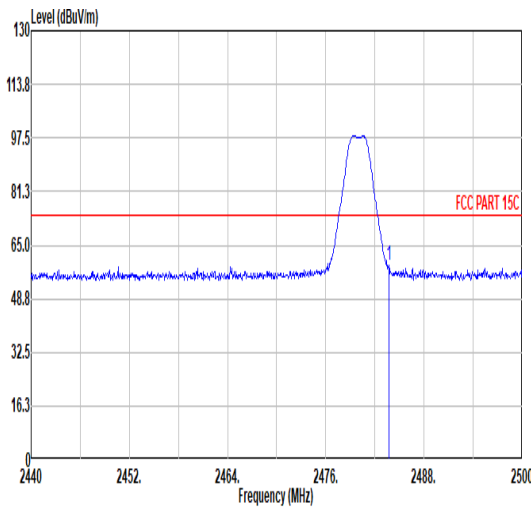
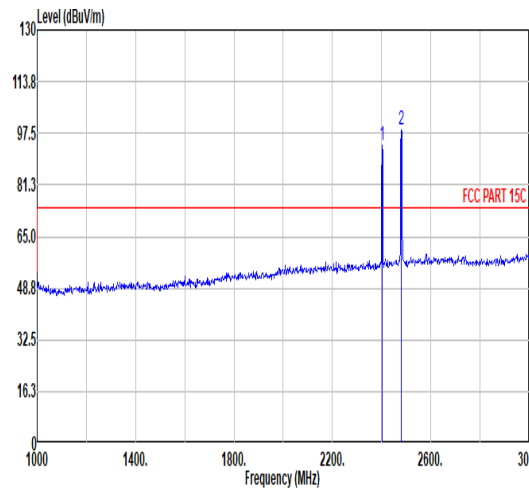
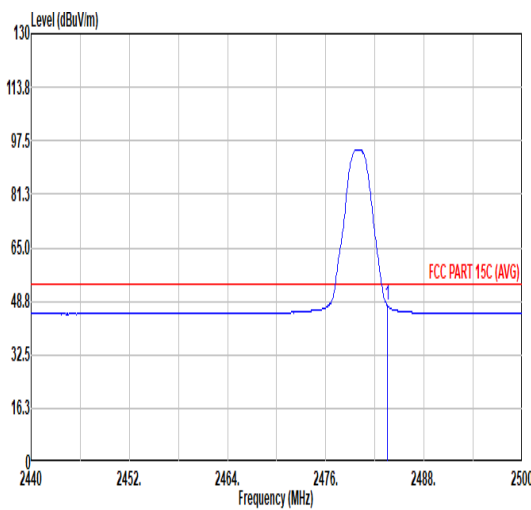
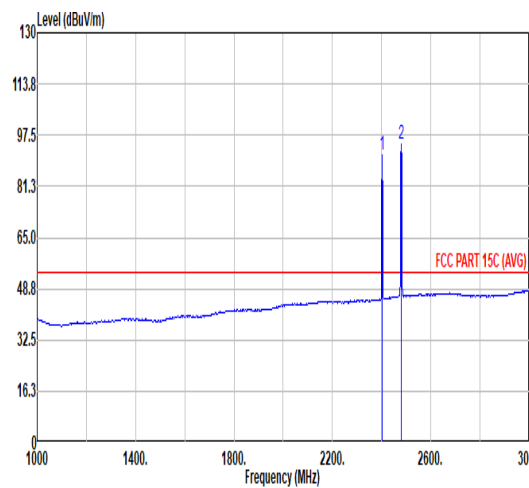


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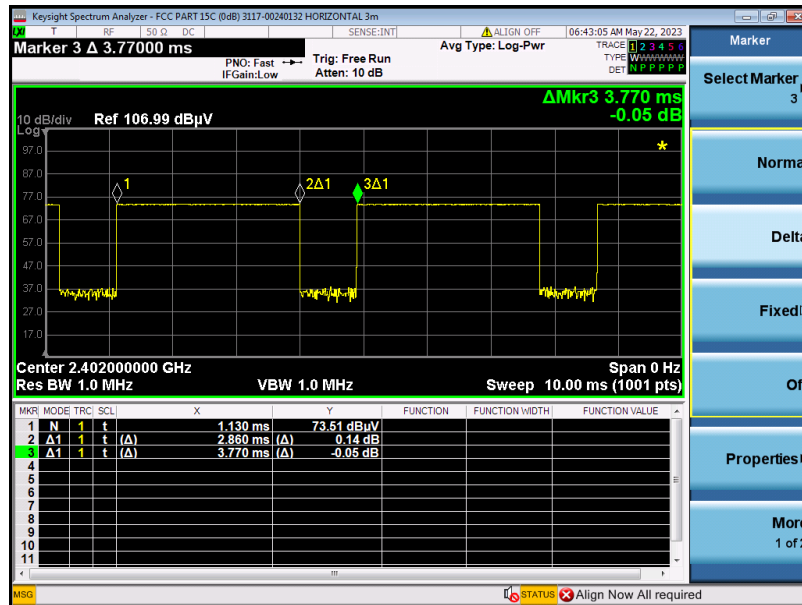
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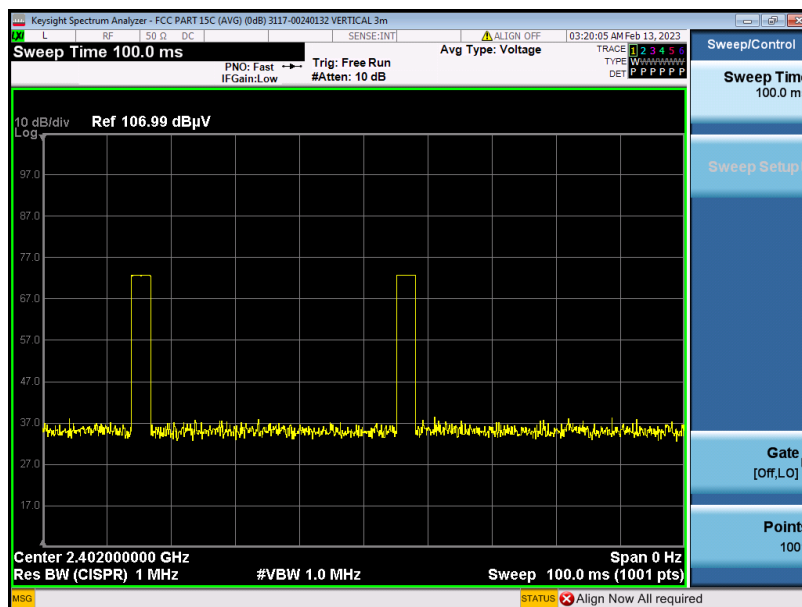
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Appendix D. Duty Cycle Plots

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 = $2 * 2.86 / 100 = 5.72 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.85 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.