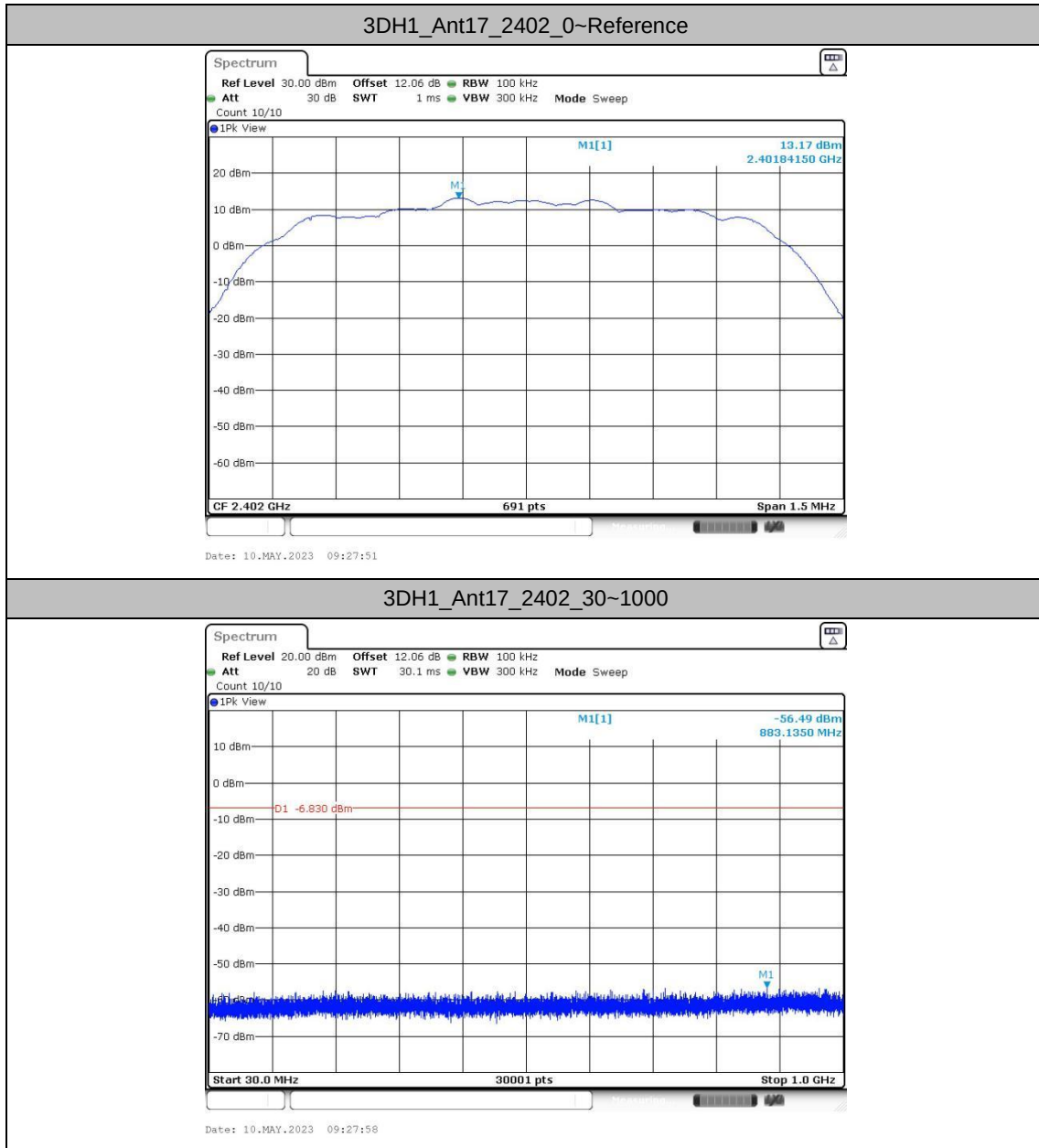
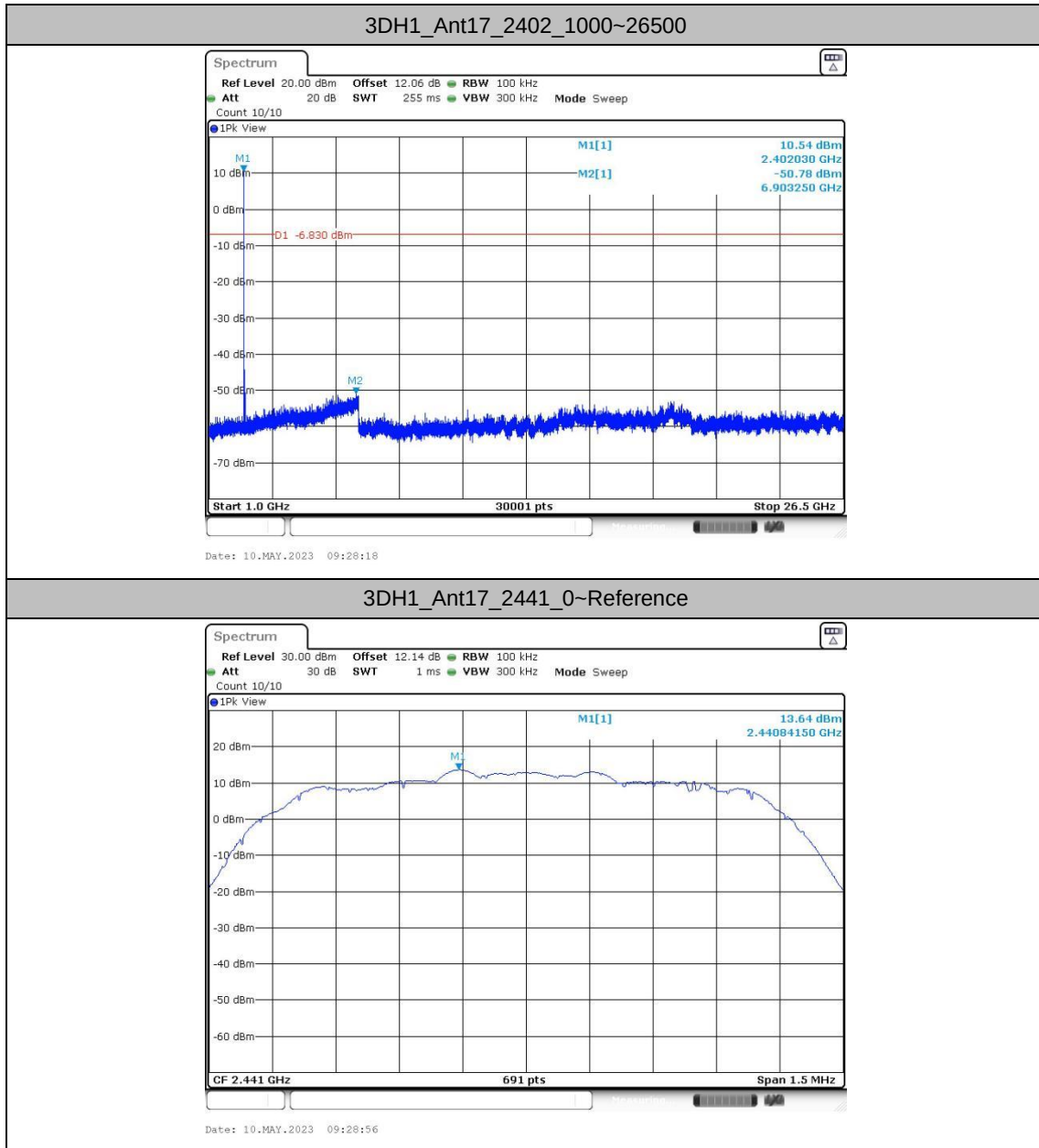
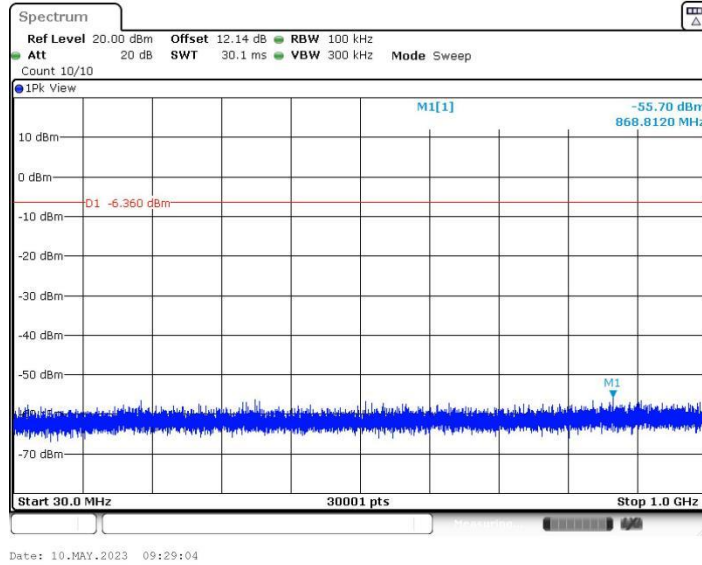




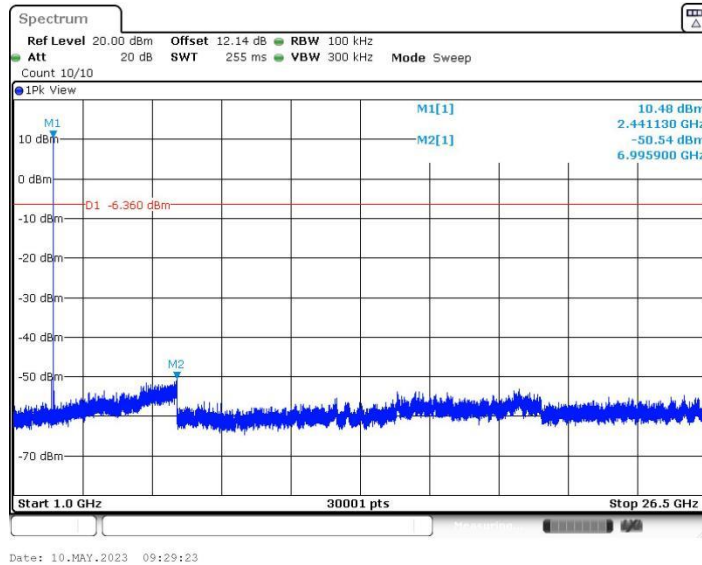


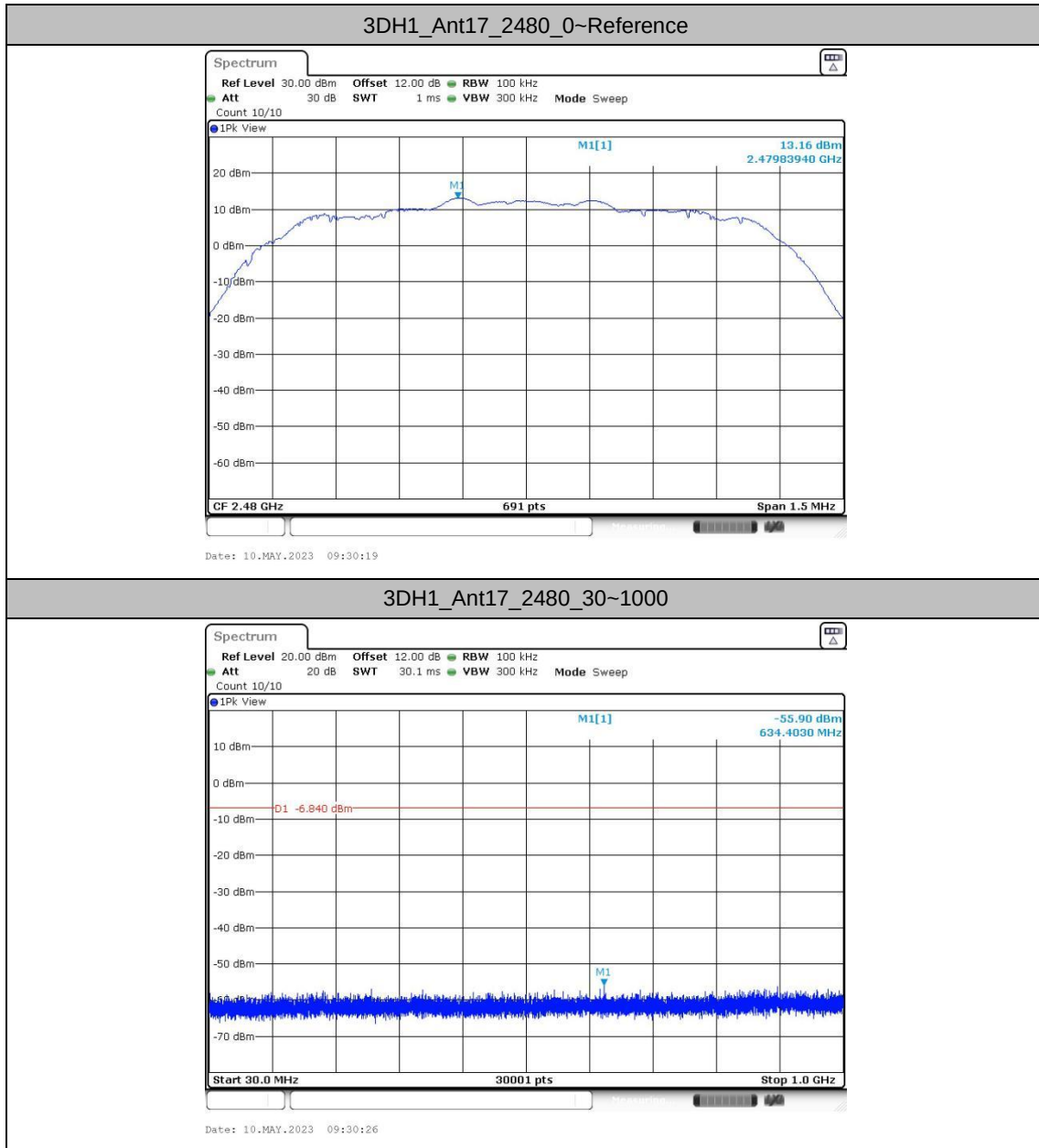


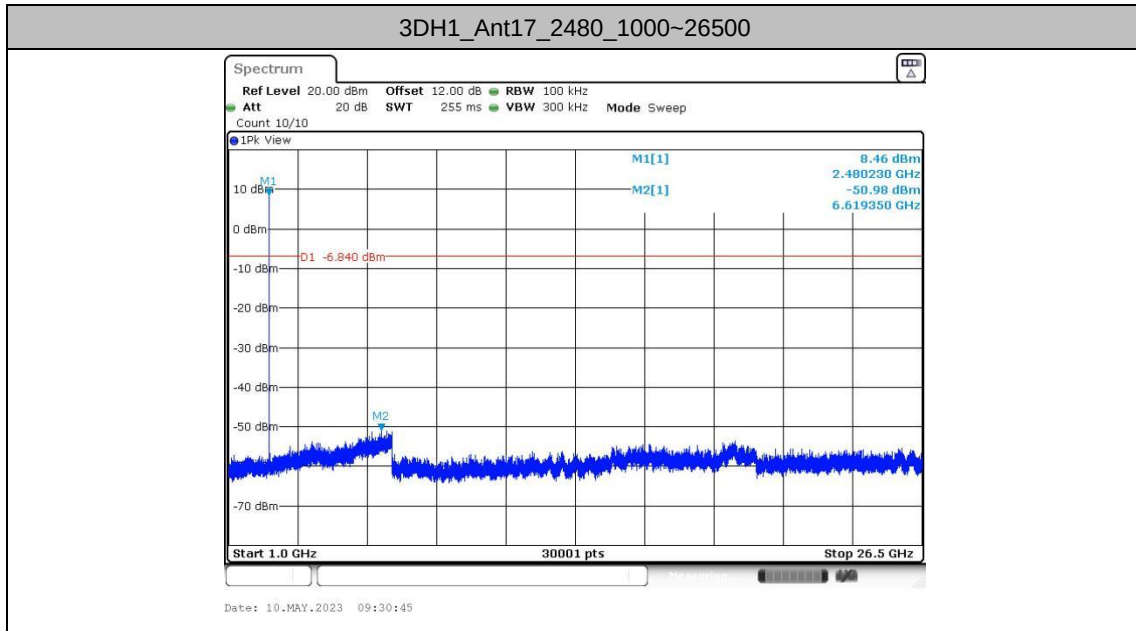
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3DH1_Ant17_2441_1000~26500

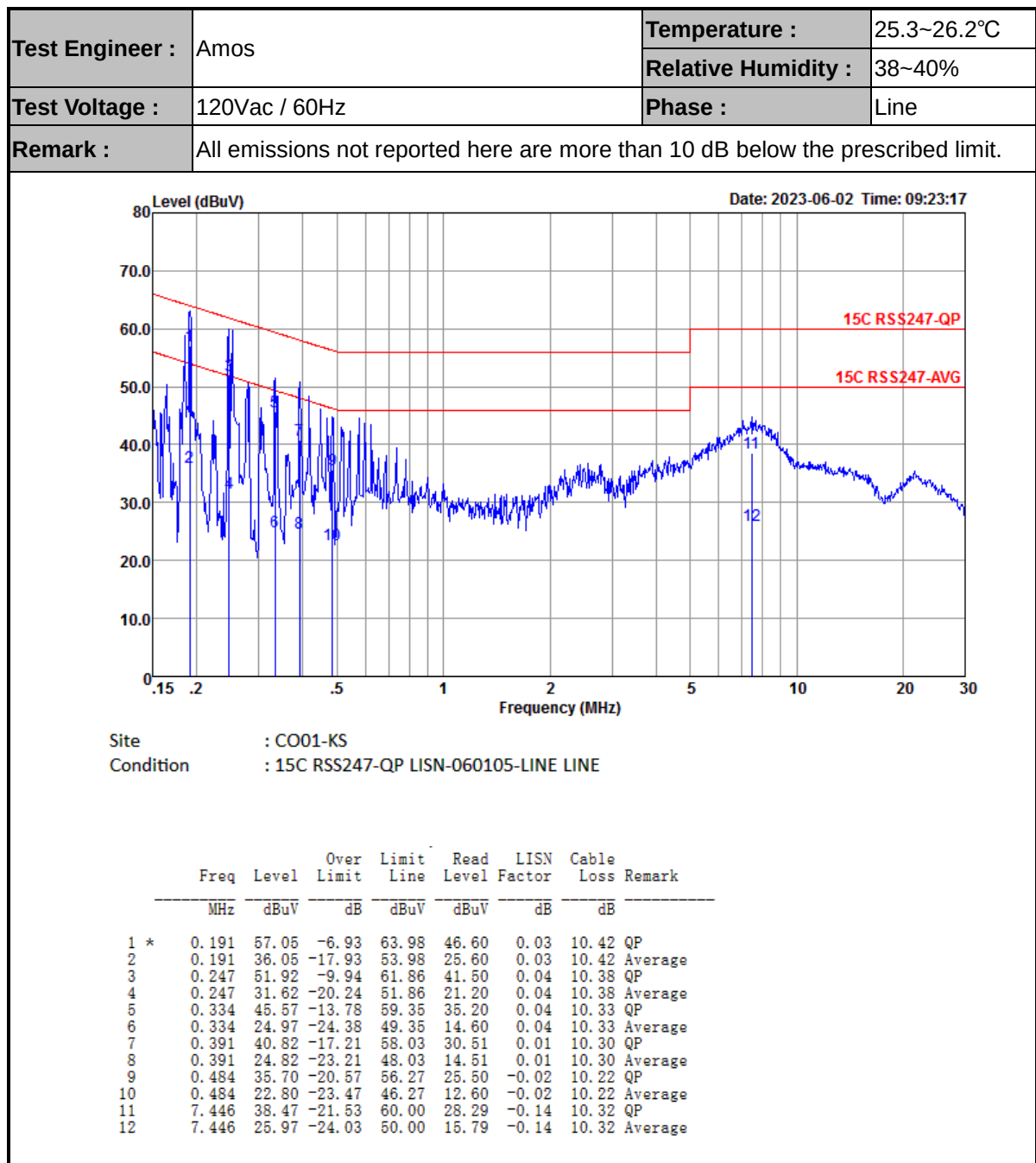




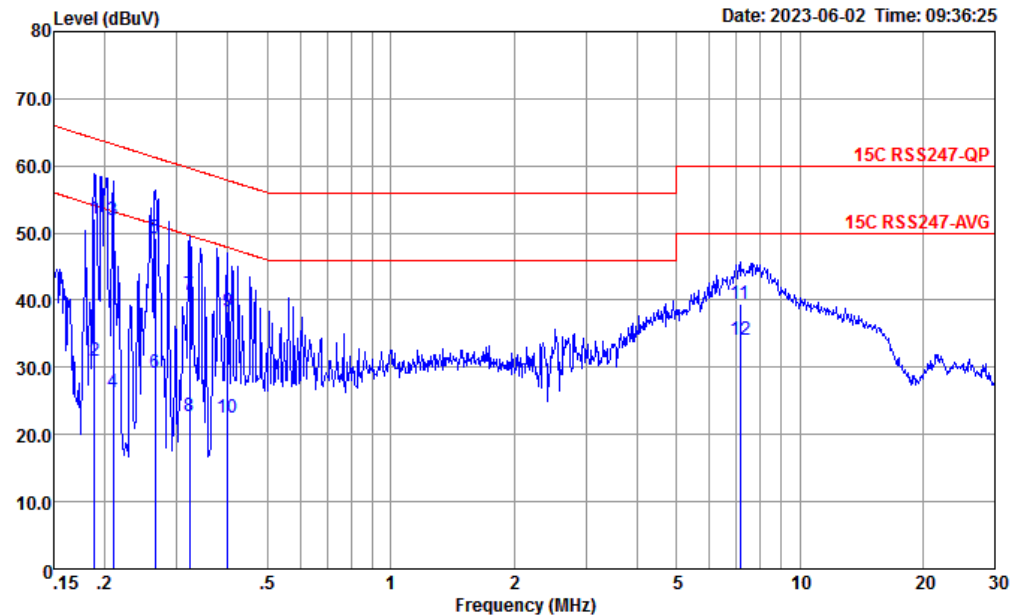




Appendix B. AC Conducted Emission Test Results



Test Engineer :	Amos	Temperature :	25.3~26.2°C
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : 15C RSS247-QP LISN-060105-NEUTRAL NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.188	52.07	-12.04	64.11	41.60	0.05	10.42	QP
2	0.188	31.07	-23.04	54.11	20.60	0.05	10.42	Average
3 *	0.209	51.95	-11.28	63.23	41.50	0.04	10.41	QP
4	0.209	26.35	-26.88	53.23	15.90	0.04	10.41	Average
5	0.266	49.15	-12.10	61.25	38.80	-0.02	10.37	QP
6	0.266	29.15	-22.10	51.25	18.80	-0.02	10.37	Average
7	0.322	40.78	-18.88	59.66	30.49	-0.05	10.34	QP
8	0.322	22.78	-26.88	49.66	12.49	-0.05	10.34	Average
9	0.400	38.43	-19.43	57.86	28.20	-0.07	10.30	QP
10	0.400	22.46	-25.40	47.86	12.23	-0.07	10.30	Average
11	7.137	39.35	-20.65	60.00	29.20	-0.12	10.27	QP
12	7.137	34.05	-15.95	50.00	23.90	-0.12	10.27	Average

Note:

- Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
- Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)



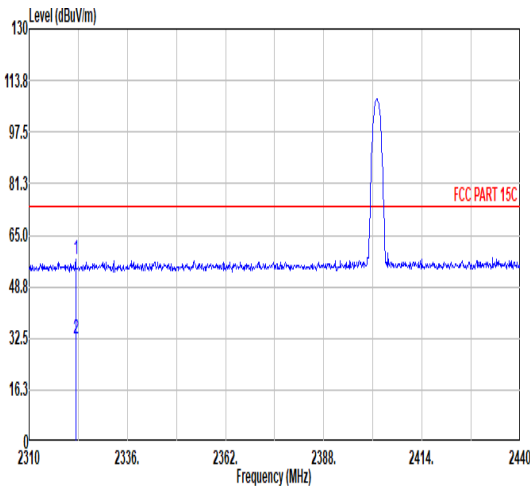
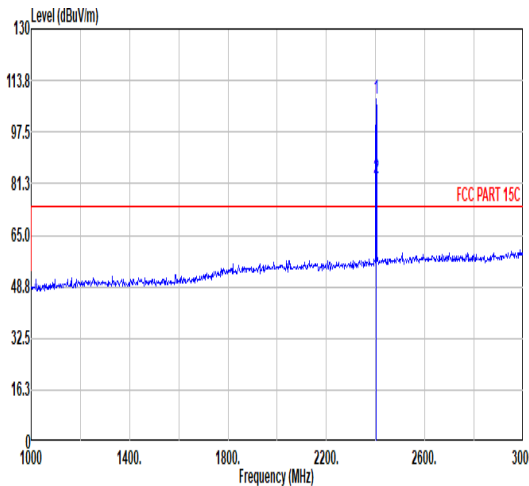
Appendix C. Radiated Spurious Emission Test Data

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	17	Bluetooth BR_GFSK	00	2402	1Mbps	-
Mode 2	2400-2483.5	17	Bluetooth BR_GFSK	39	2441	1Mbps	-
Mode 3	2400-2483.5	17	Bluetooth BR_GFSK	78	2480	1Mbps	-
Mode 26	2400-2483.5	17	Bluetooth BR_GFSK	78	2480	1Mbps	LF

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	00	2322.35	57.34	74.00	-16.66	H	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	45.65	74.00	-28.35	H	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	44.02	74.00	-29.98	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2483.78	58.39	74.00	-15.61	V	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	4960.00	48.00	74.00	-26.00	V	PEAK	Pass	Harmonic
26	Bluetooth BR_GFSK	78	909.79	34.28	46.00	-11.72	H	PEAK	Pass	LF

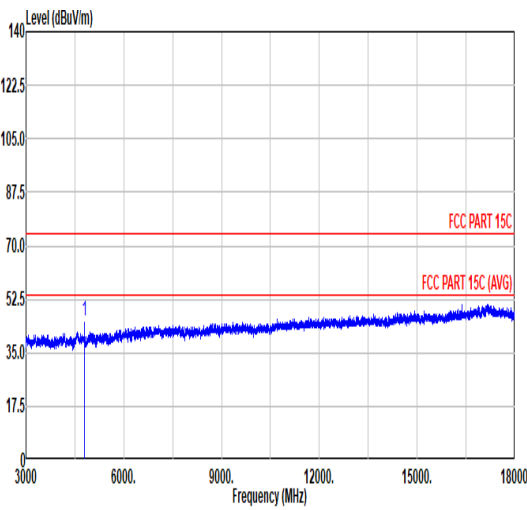
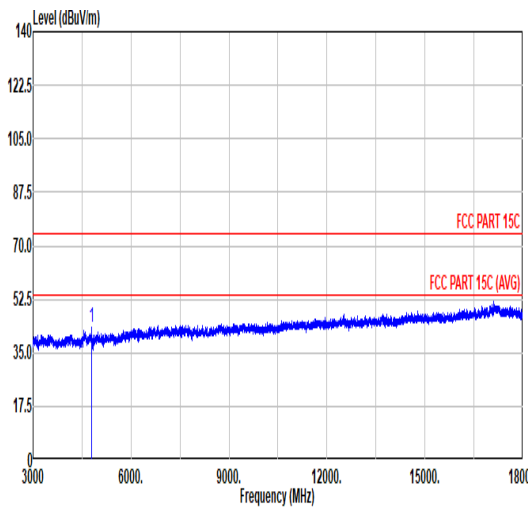


Mode	1											
	Band Edge											
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz											
ANT	17											
Pol.	Horizontal						Fundamental					
Peak												
	Limit						Limit					
	Freq	Level	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark
	MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg	
1	2322.35	57.34	74.00	-16.66	41.88	31.83	8.57	30.94	6.00	346	193 PEAK	
2	2322.35	32.55	54.00	-21.45	17.09	31.83	8.57	30.94	6.00	346	193 AVERAGE	
Limit						Limit						
Freq	Level	Line	Margin	Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark	
MHz	dBuV/m	dBuV/m	dB	dBuV	dB/m	dB	dB	dB	cm	deg		
1	2402.00	107.83	-----	-----	91.89	32.00	8.81	30.87	6.00	346	193 PEAK	
2	2402.00	83.04	-----	-----	67.10	32.00	8.81	30.87	6.00	346	193 AVERAGE	

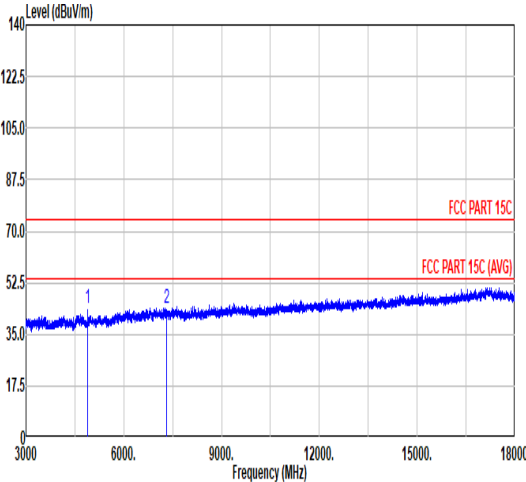
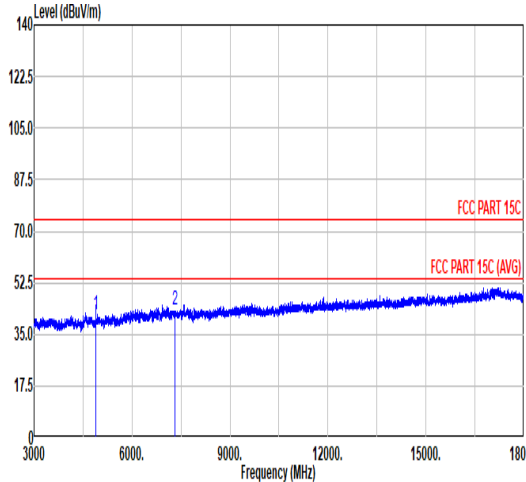


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Mode		Band Edge																																																																				
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		Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																													
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	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																														
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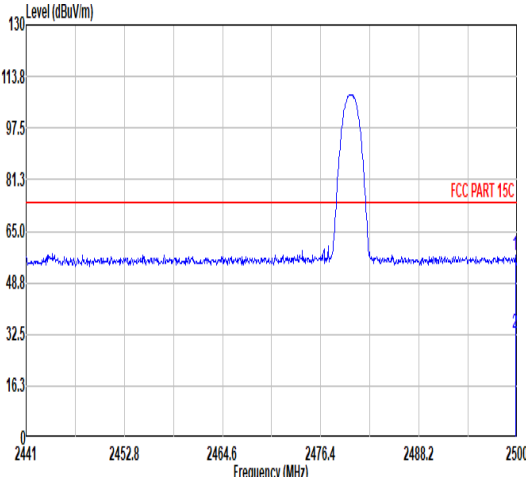
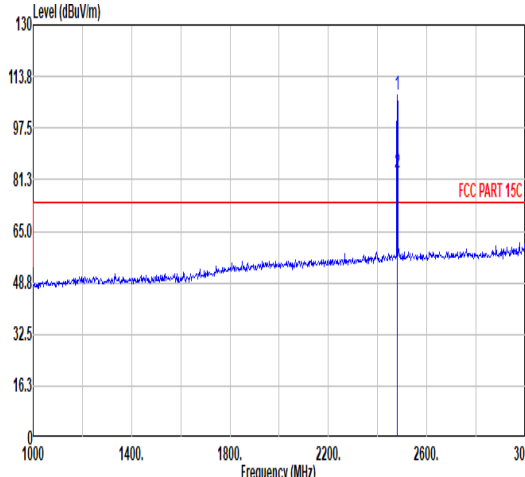


Mode	1																																																																																																	
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Pol.	Horizontal						Vertical																																																																																											
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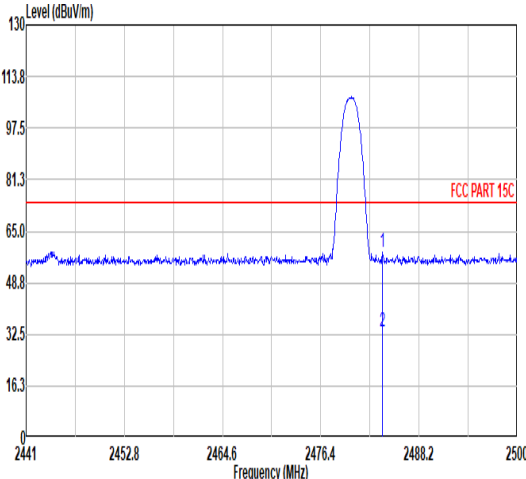
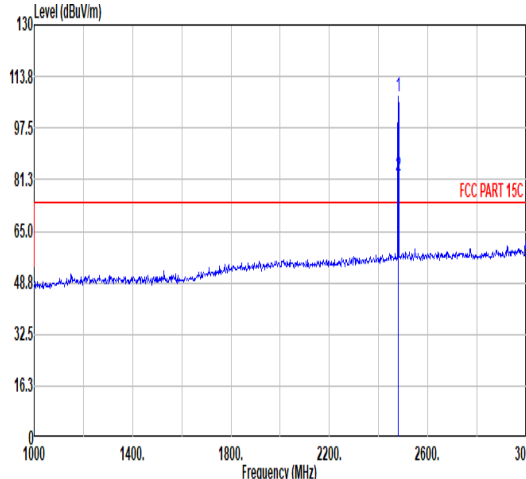


Mode	2																																																																										
	Harmonic																																																																										
	2400-2483.5_Bluetooth BR_GFSK_CH39_2441MHz																																																																										
ANT	17																																																																										
Pol.	Horizontal											Vertical																																																															
Peak Avg																																																																											
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			Limit		Read	Ant	Cable	Preamp	Aux	APos	TPos	Remark																																																															
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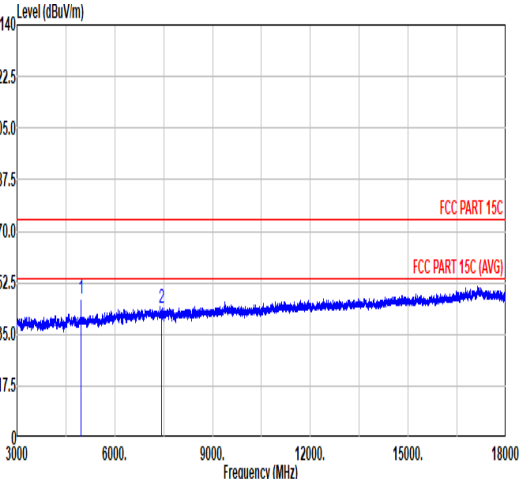
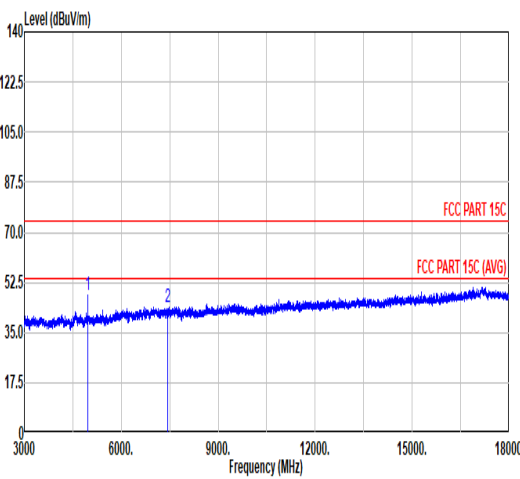
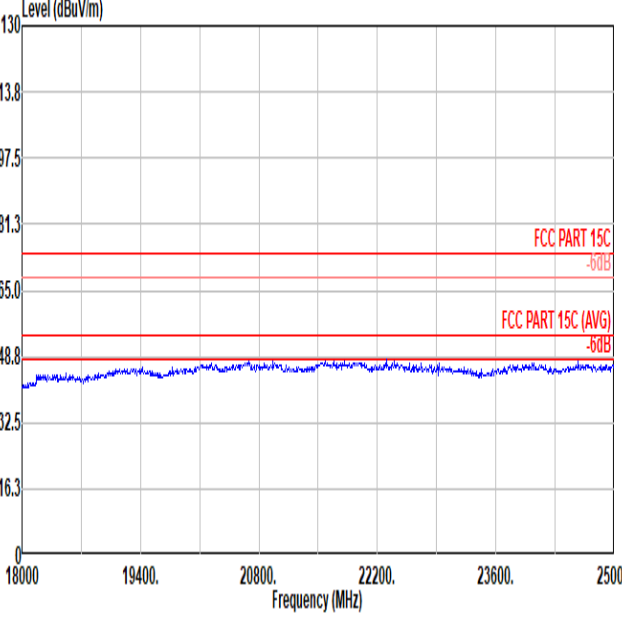
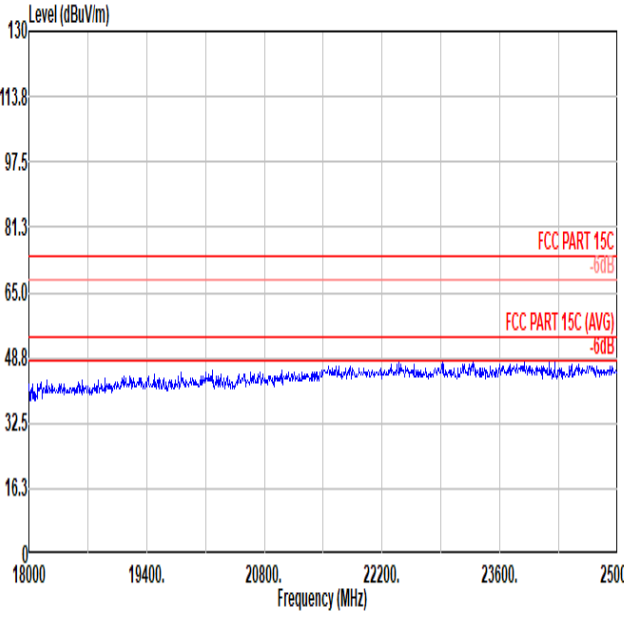


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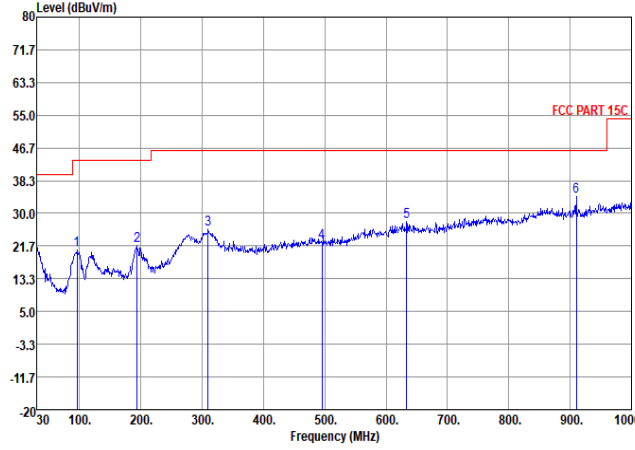
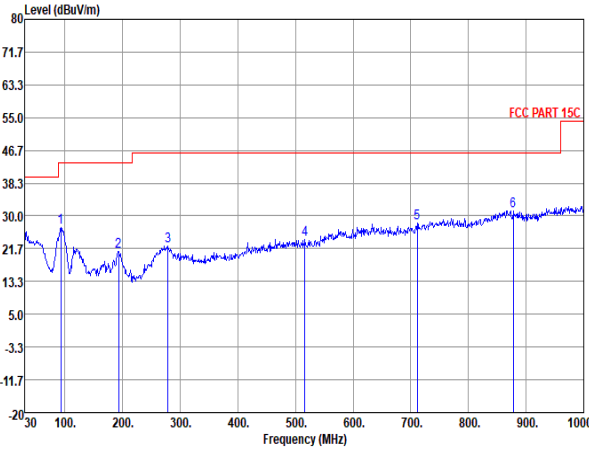


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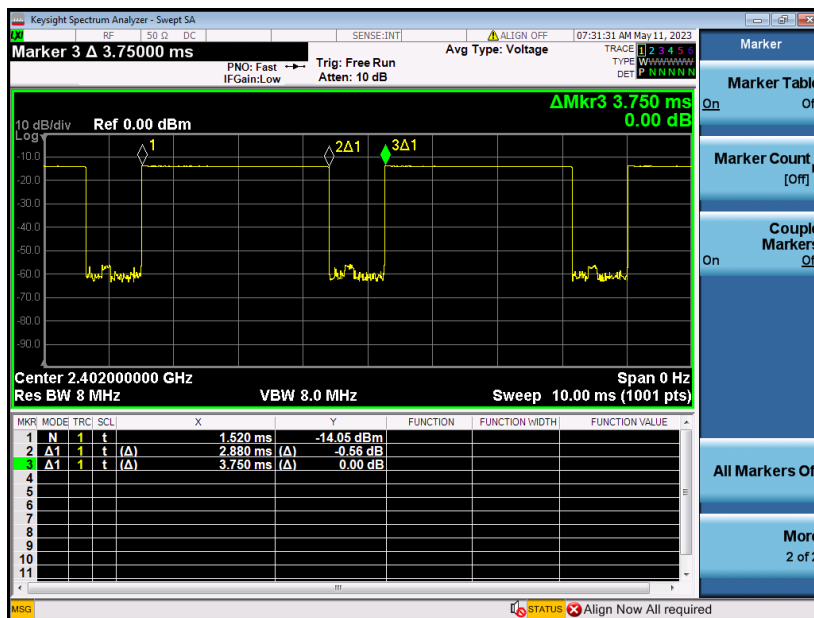
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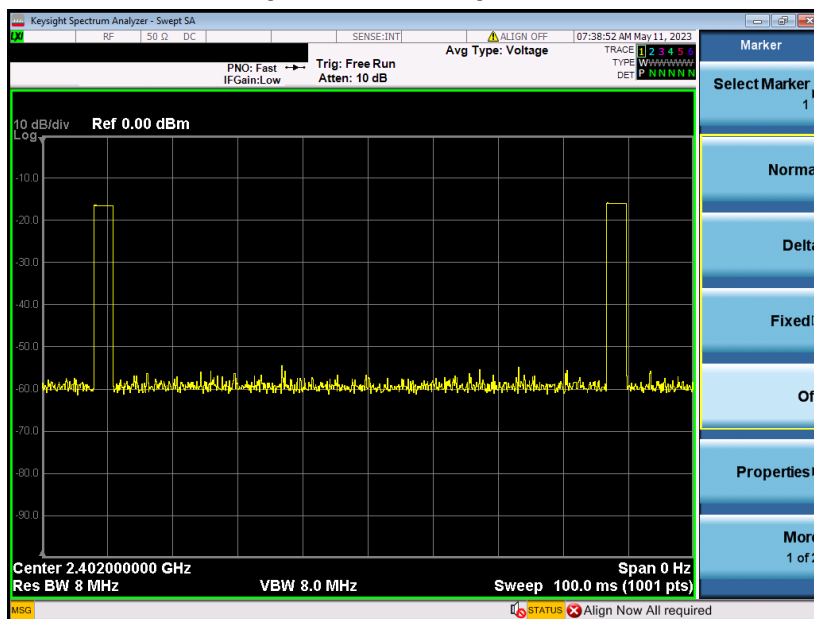
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6	909.79	34.28	-11.72	46.00	32.94	29.24	4.39	32.29	---	---	Peak																																																																																													
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	<table><tr><th></th><th>Freq</th><th>Level</th><th>Over Limit</th><th>Limit Line</th><th>ReadAntenna</th><th>Cable Preamp</th><th>Loss Factor</th><th>A/Pos</th><th>T/Pos</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dB</th><th>dBuV/m</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>93.05</td><td>27.00</td><td>-16.50</td><td>43.50</td><td>43.34</td><td>15.20</td><td>1.37</td><td>32.91</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>2</td><td>192.96</td><td>21.00</td><td>-22.50</td><td>43.50</td><td>36.92</td><td>15.03</td><td>2.03</td><td>32.98</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>3</td><td>278.32</td><td>22.44</td><td>-23.56</td><td>46.00</td><td>34.02</td><td>18.98</td><td>2.44</td><td>33.00</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>4</td><td>515.97</td><td>24.08</td><td>-21.92</td><td>46.00</td><td>29.77</td><td>24.37</td><td>3.31</td><td>33.37</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>5</td><td>710.94</td><td>28.25</td><td>-17.75</td><td>46.00</td><td>30.80</td><td>26.88</td><td>3.90</td><td>33.33</td><td>---</td><td>---</td><td>Peak</td></tr><tr><td>6</td><td>877.78</td><td>31.37</td><td>-14.63</td><td>46.00</td><td>30.71</td><td>28.89</td><td>4.31</td><td>32.54</td><td>---</td><td>---</td><td>Peak</td></tr></table>												Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	A/Pos	T/Pos	Remark		MHz	dBuV/m	dB	dBuV/m	dBuV	dB/m	dB	dB	cm	deg	1	93.05	27.00	-16.50	43.50	43.34	15.20	1.37	32.91	---	---	Peak	2	192.96	21.00	-22.50	43.50	36.92	15.03	2.03	32.98	---	---	Peak	3	278.32	22.44	-23.56	46.00	34.02	18.98	2.44	33.00	---	---	Peak	4	515.97	24.08	-21.92	46.00	29.77	24.37	3.31	33.37	---	---	Peak	5	710.94	28.25	-17.75	46.00	30.80	26.88	3.90	33.33	---	---	Peak	6	877.78	31.37	-14.63	46.00	30.71	28.89	4.31	32.54	---	---
	Freq	Level	Over Limit	Limit Line	ReadAntenna	Cable Preamp	Loss Factor	A/Pos	T/Pos	Remark																																																																																														
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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 = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.