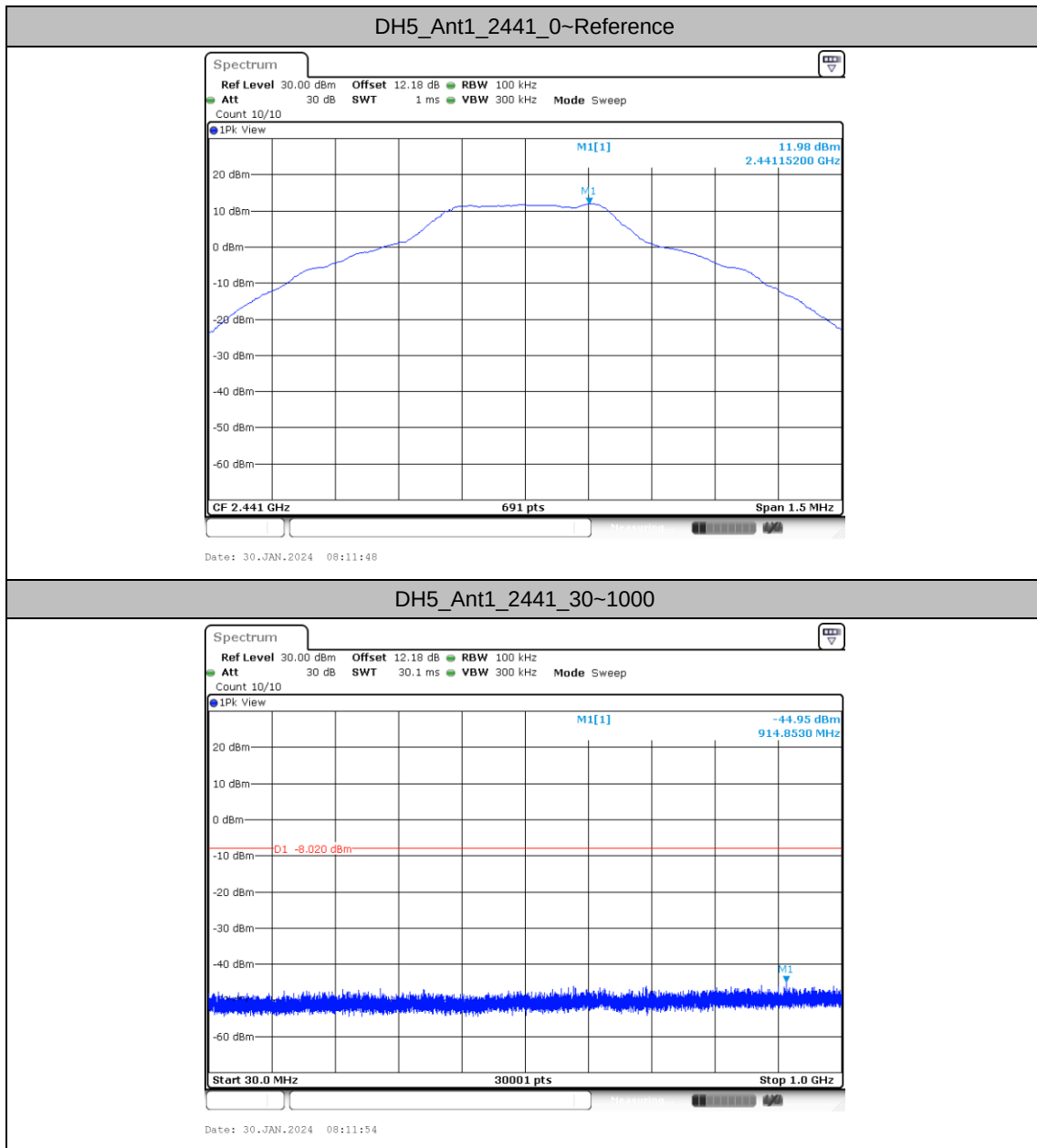
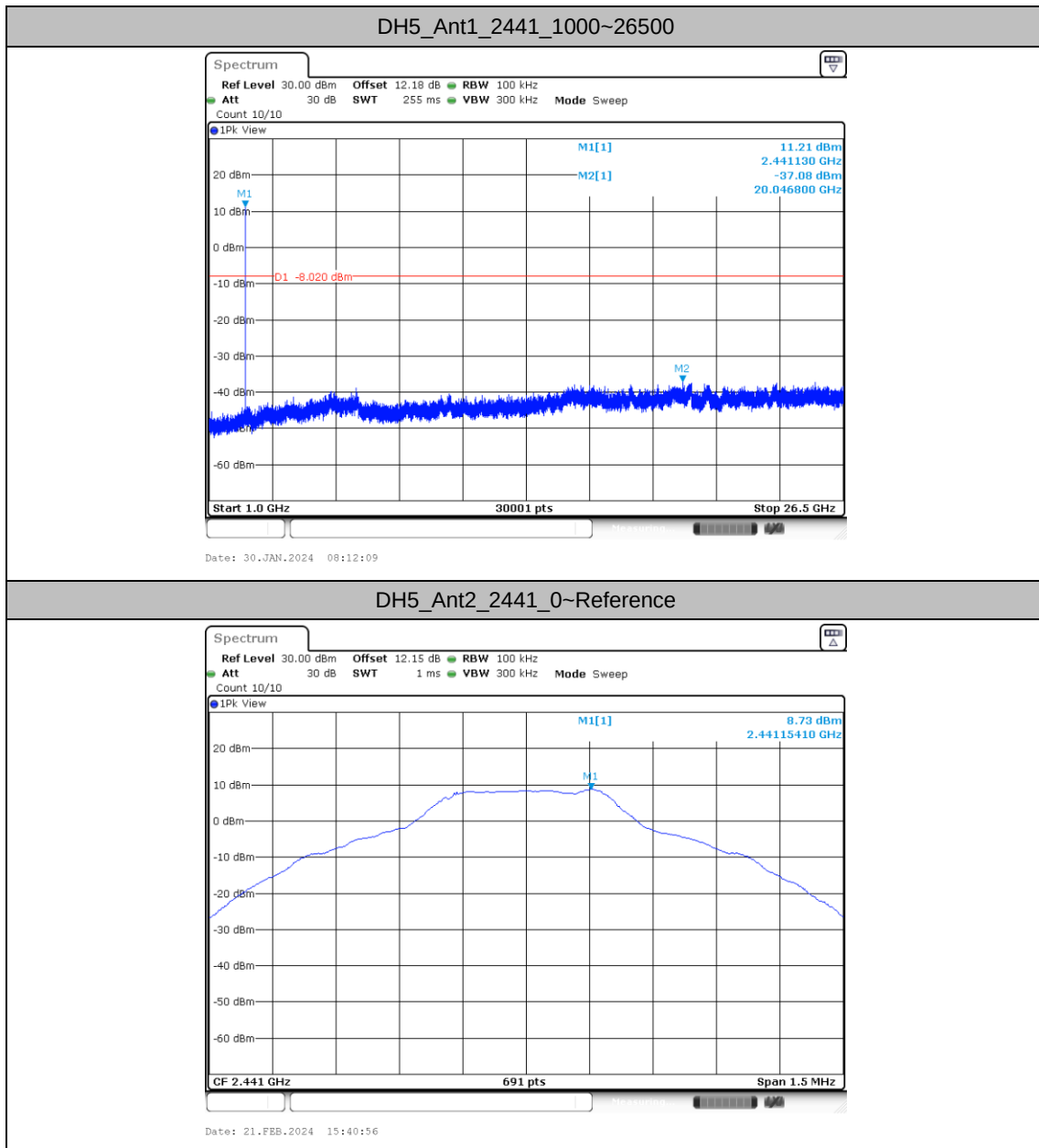
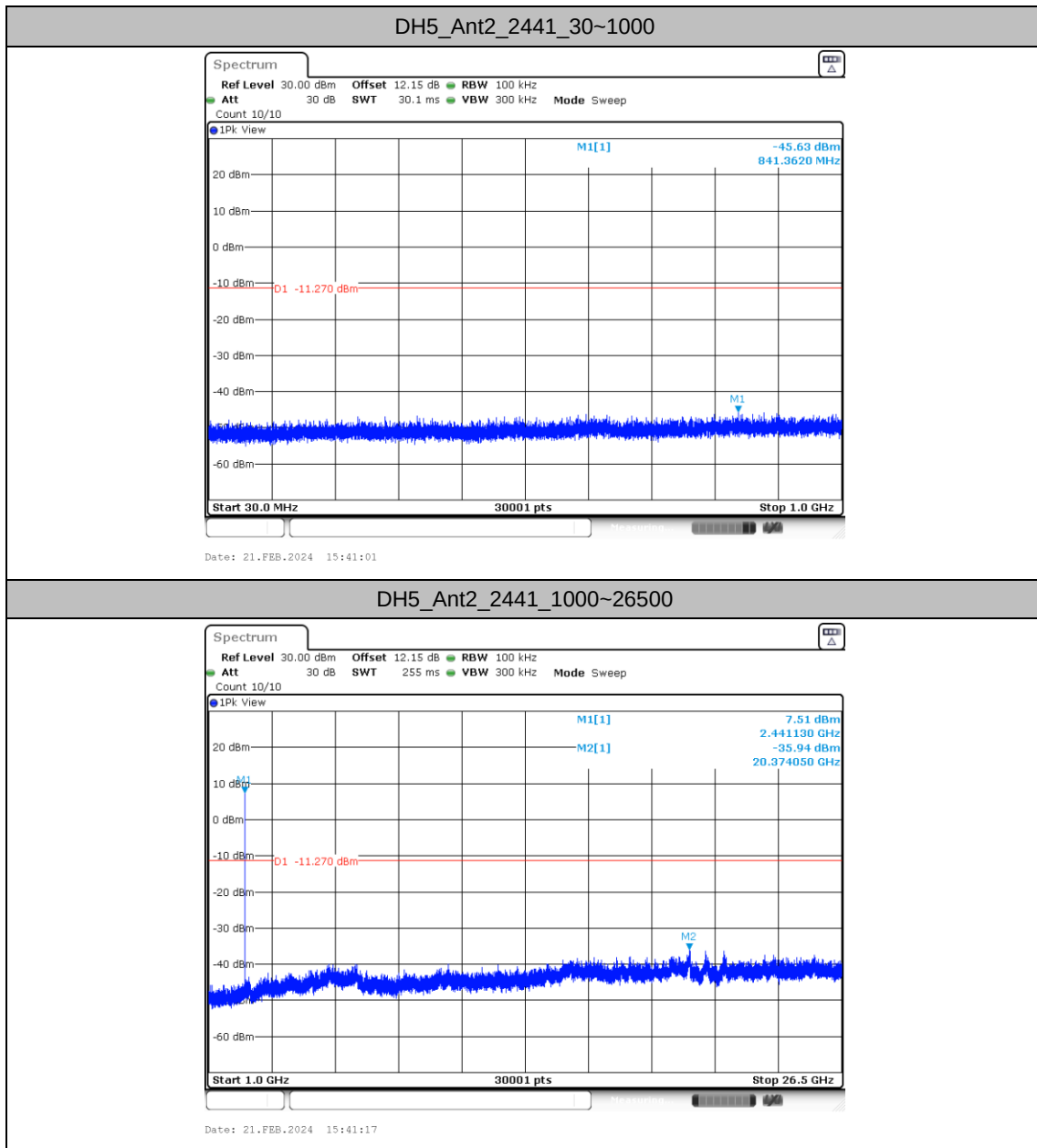
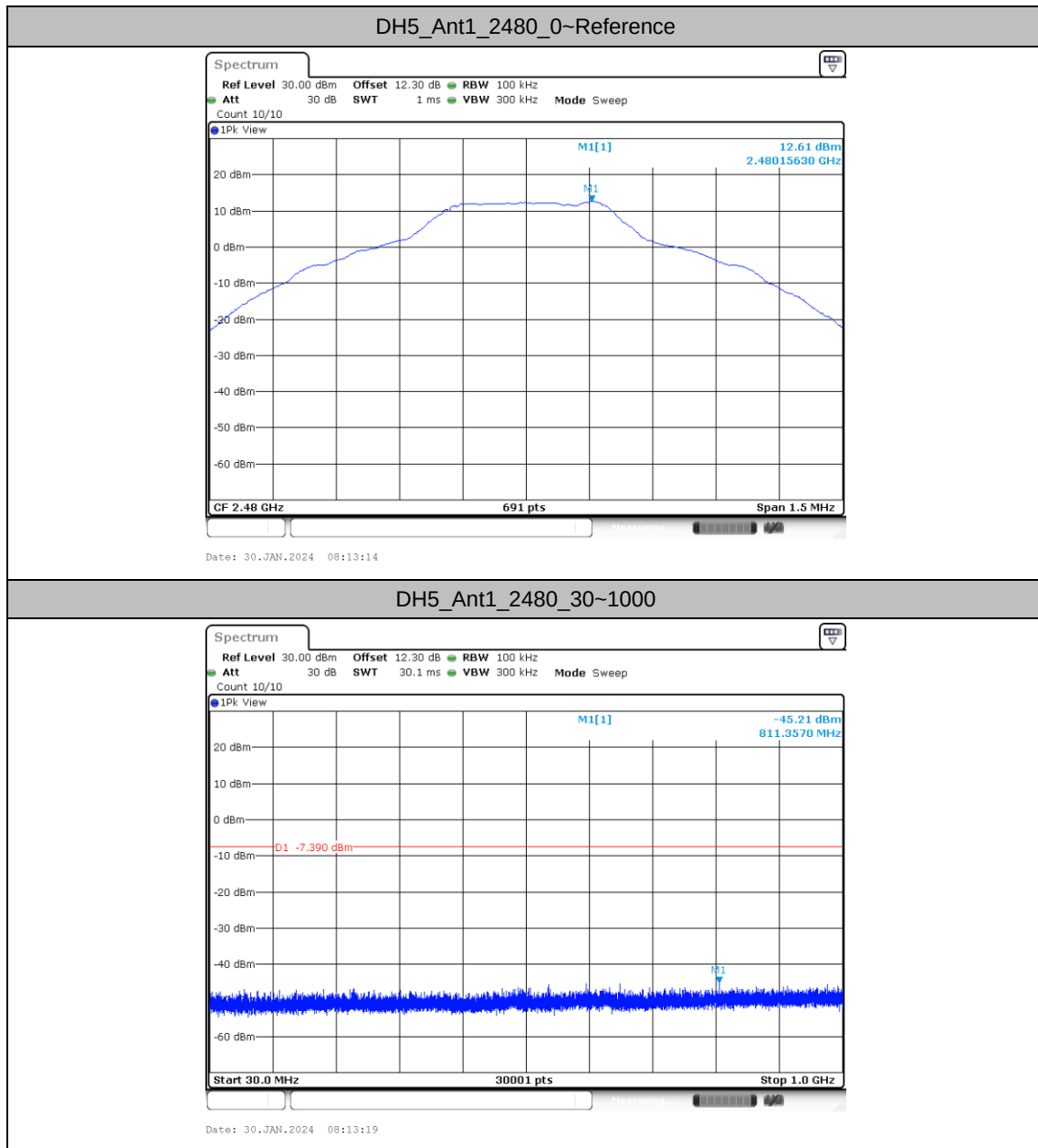
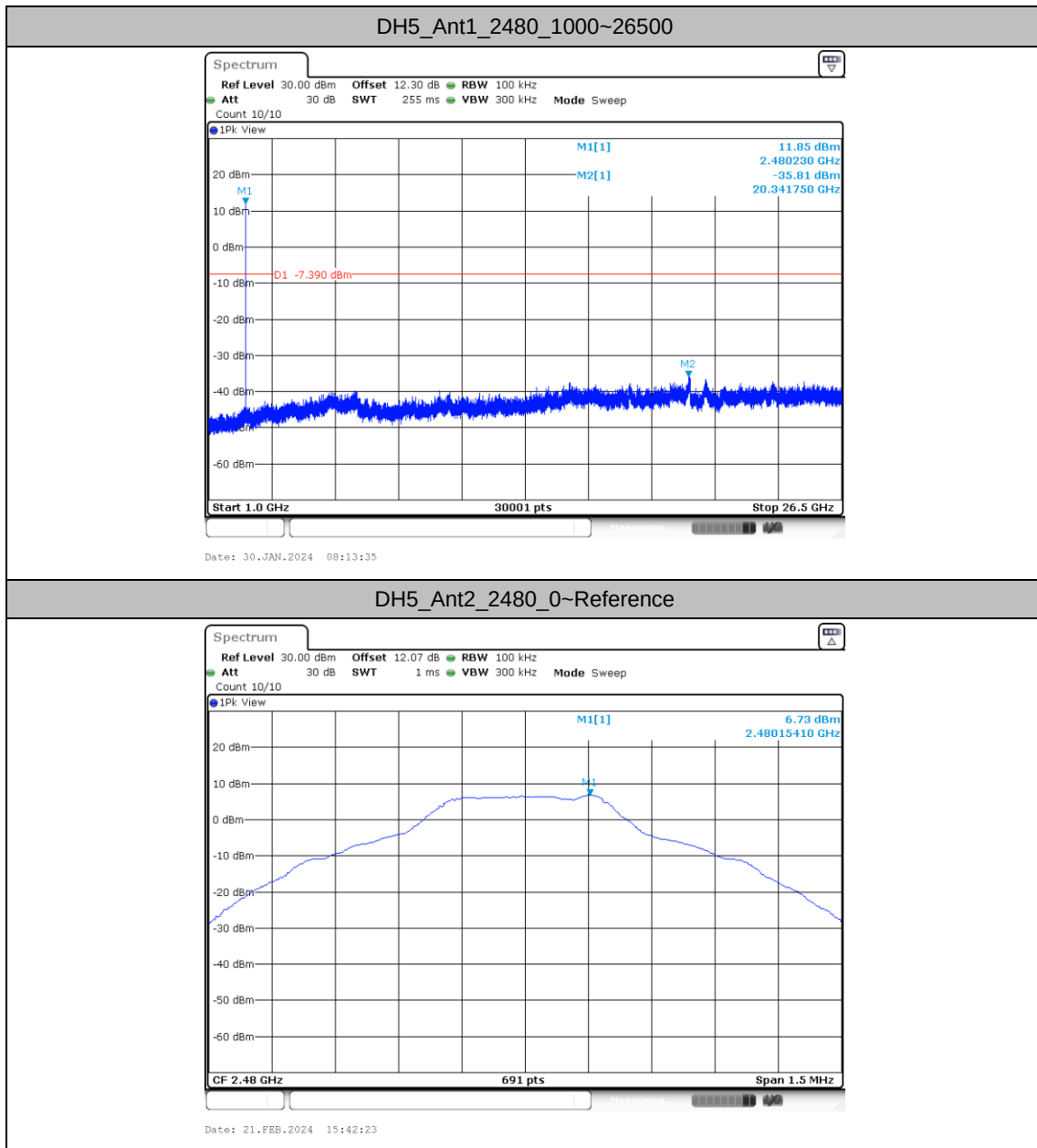


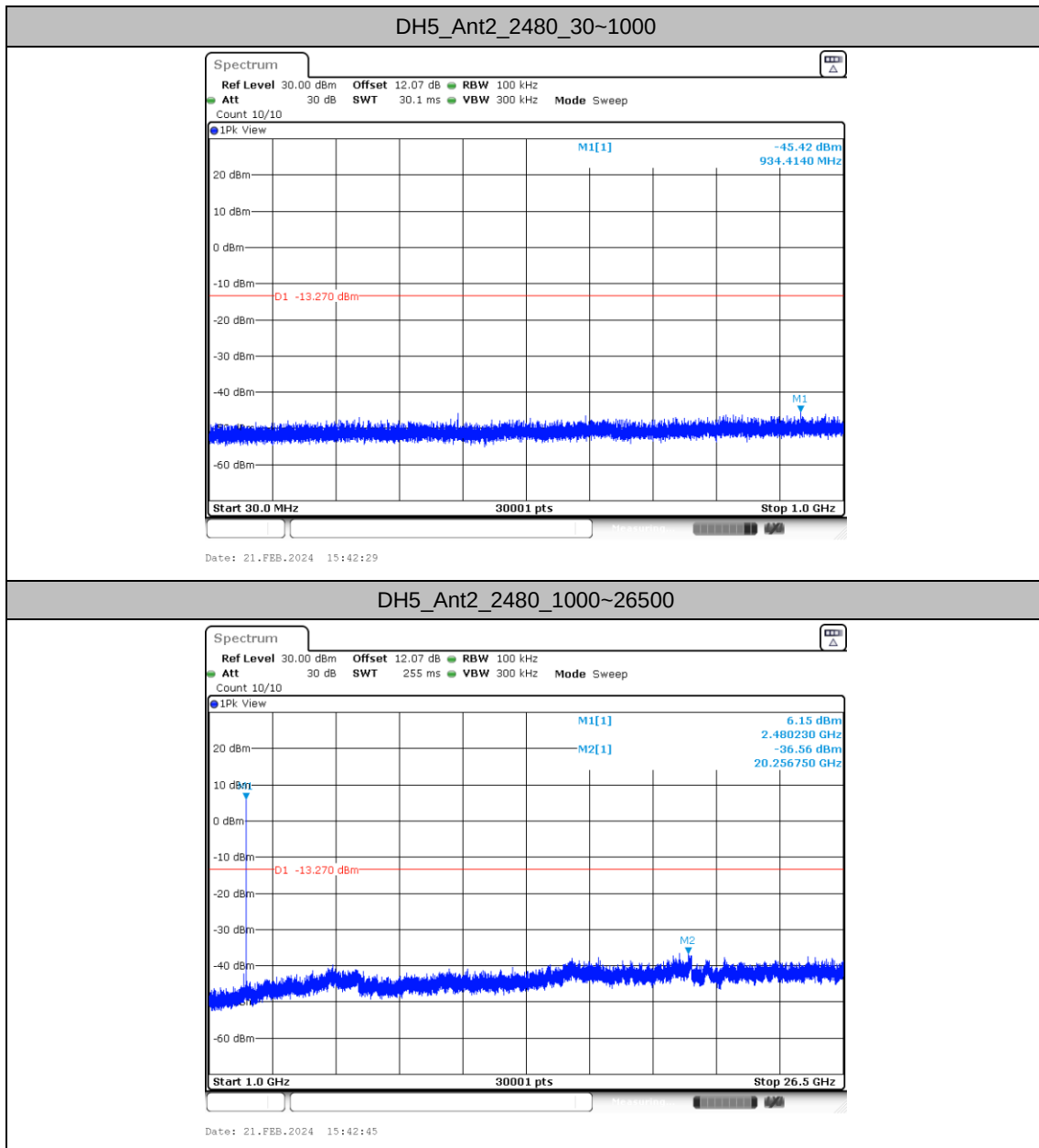


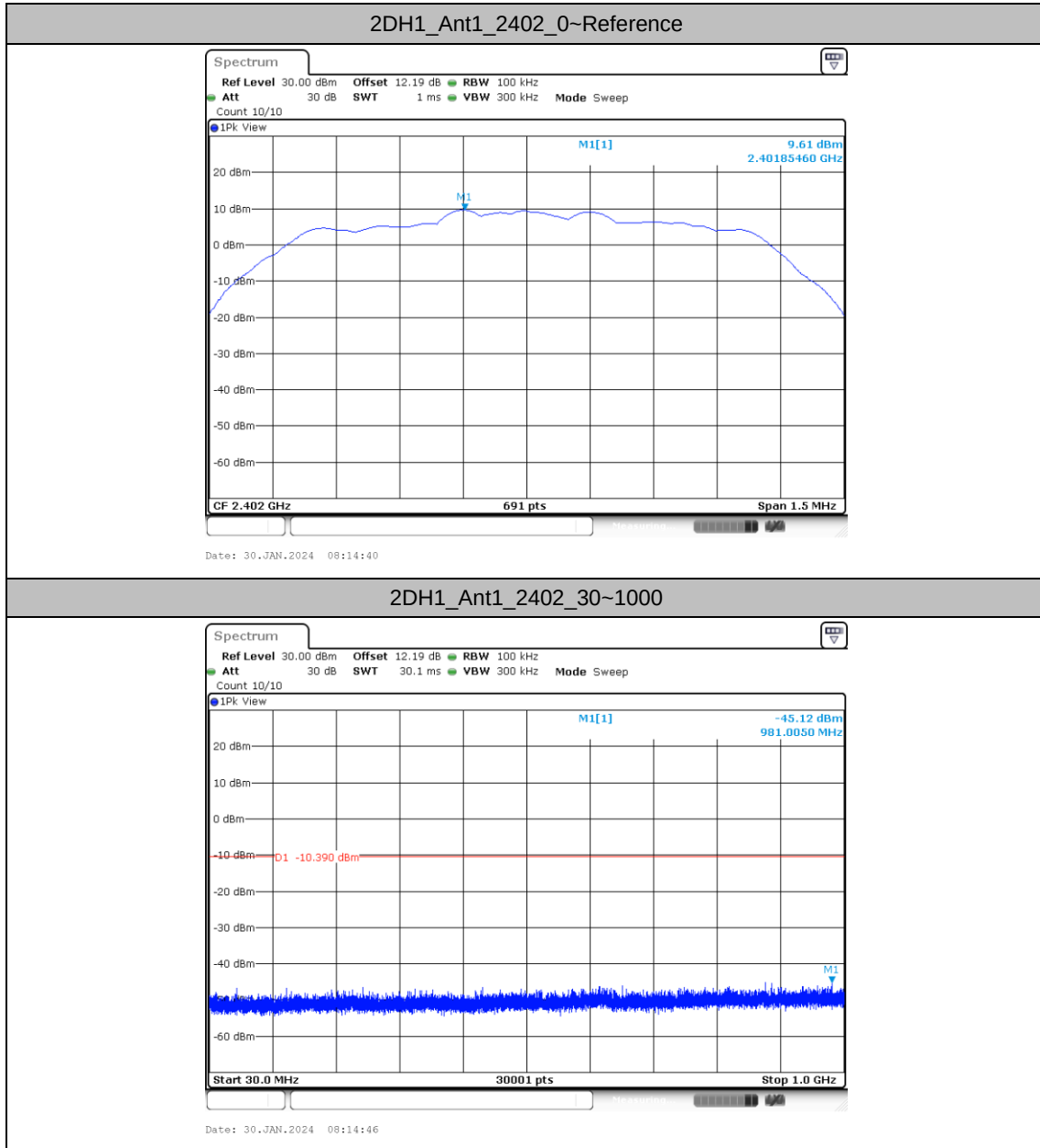


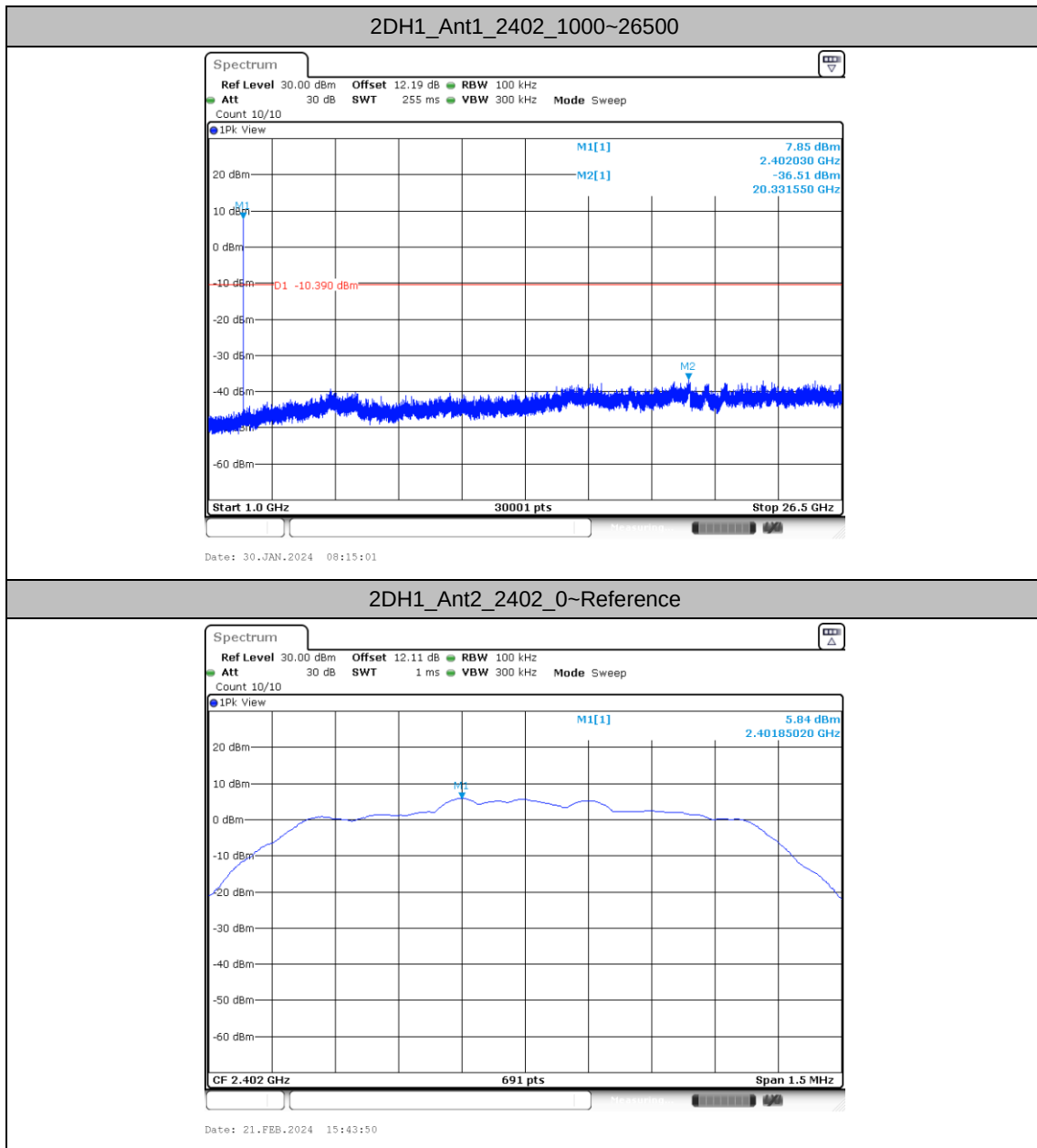


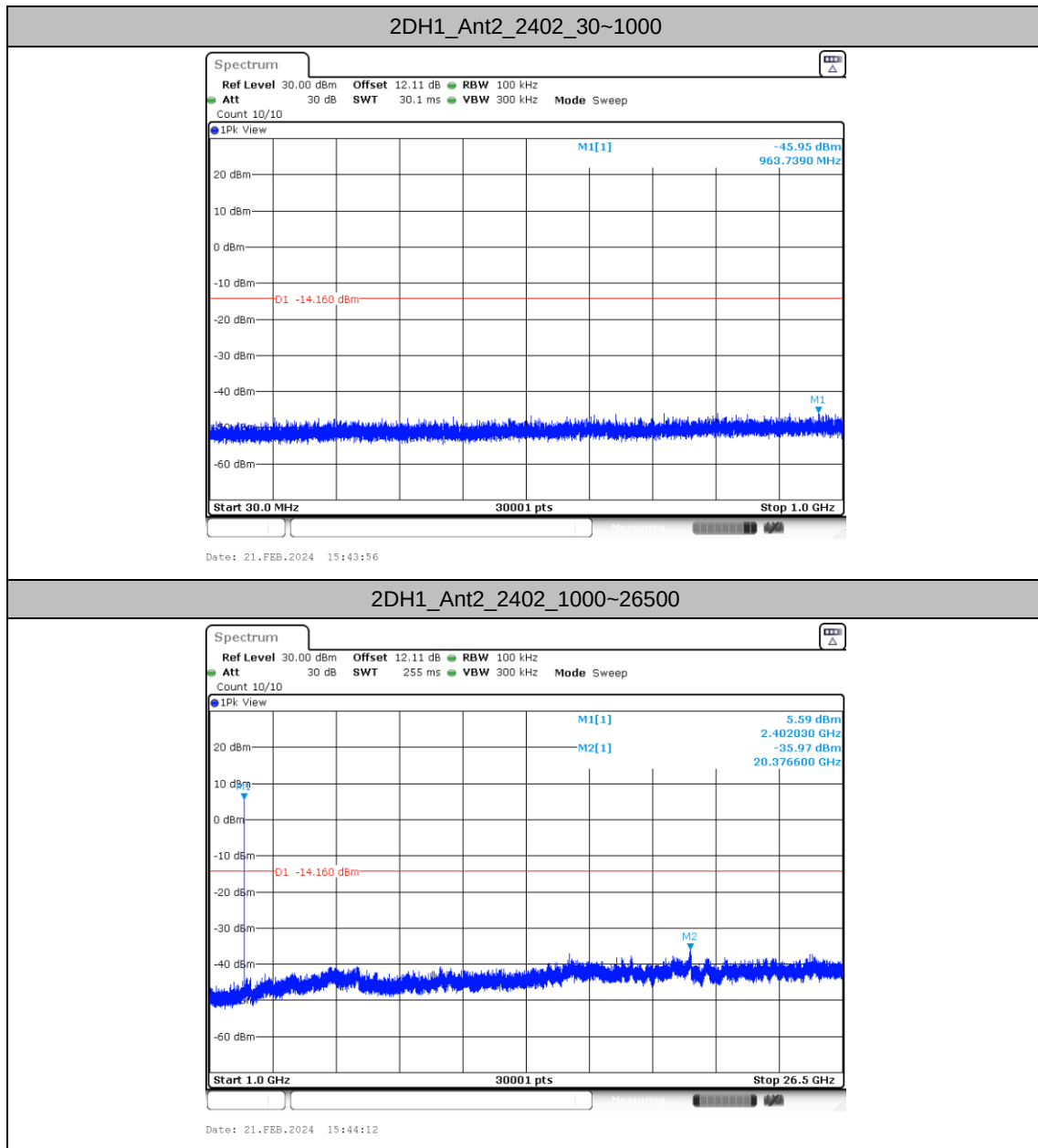


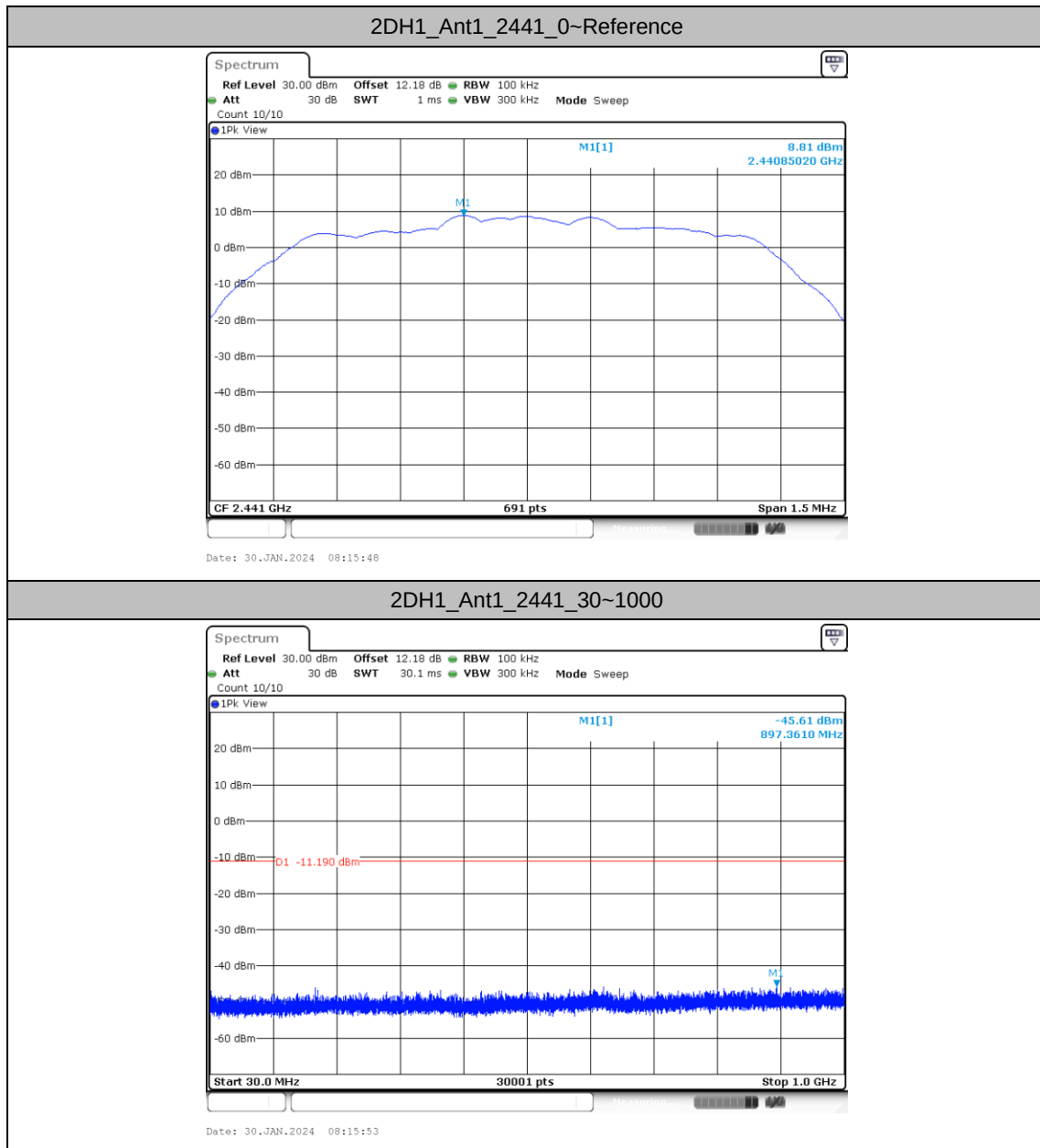


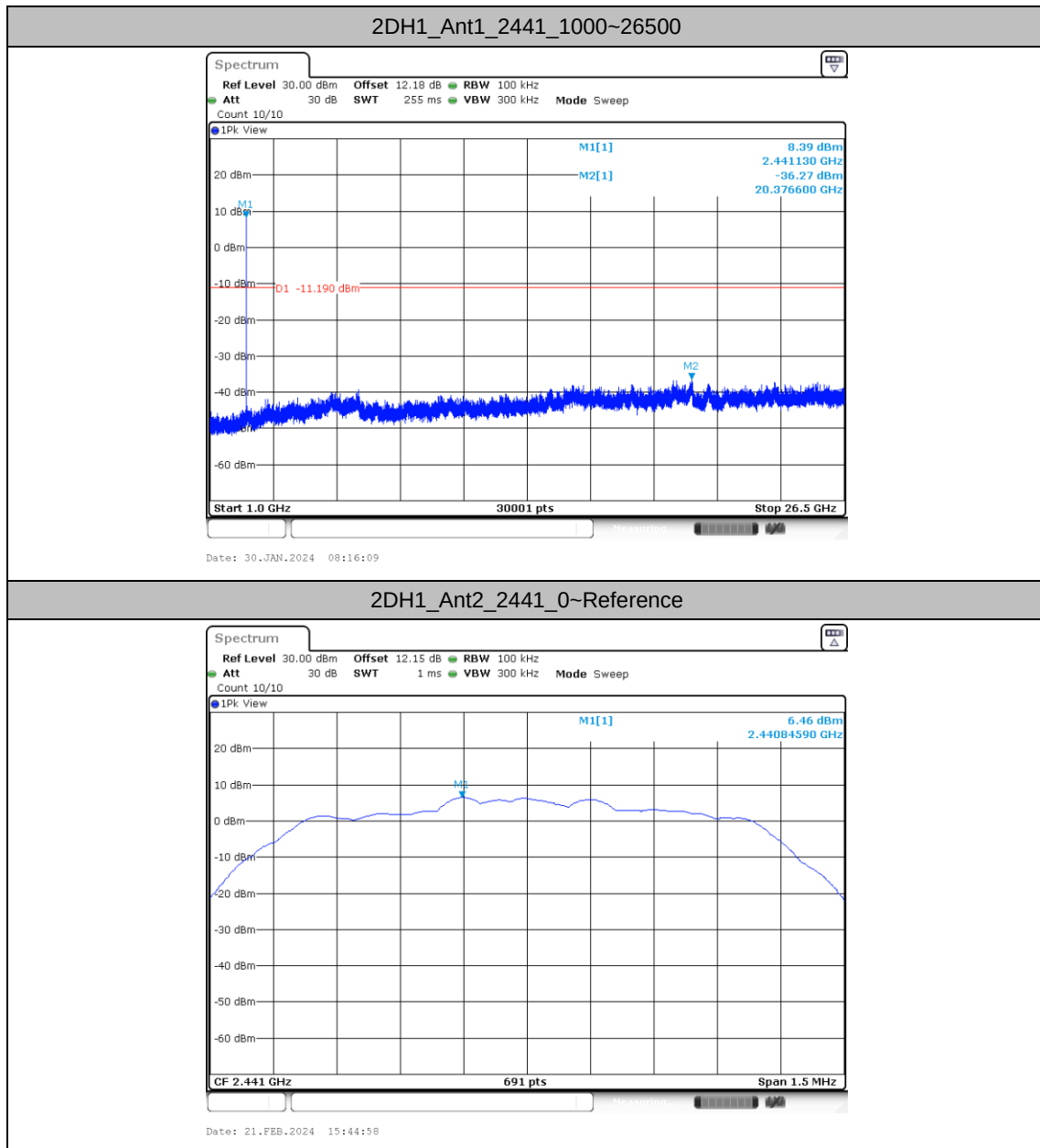


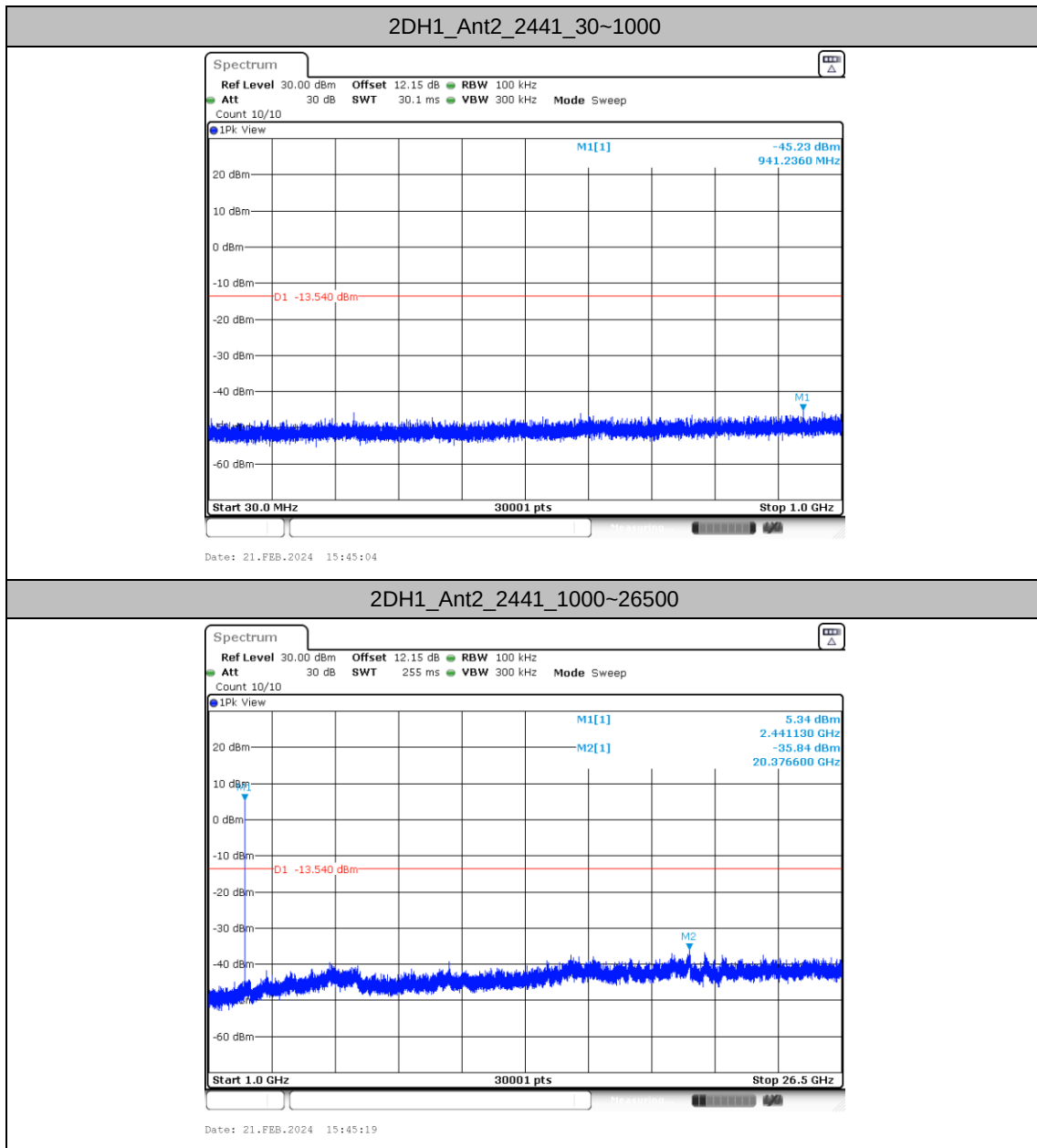


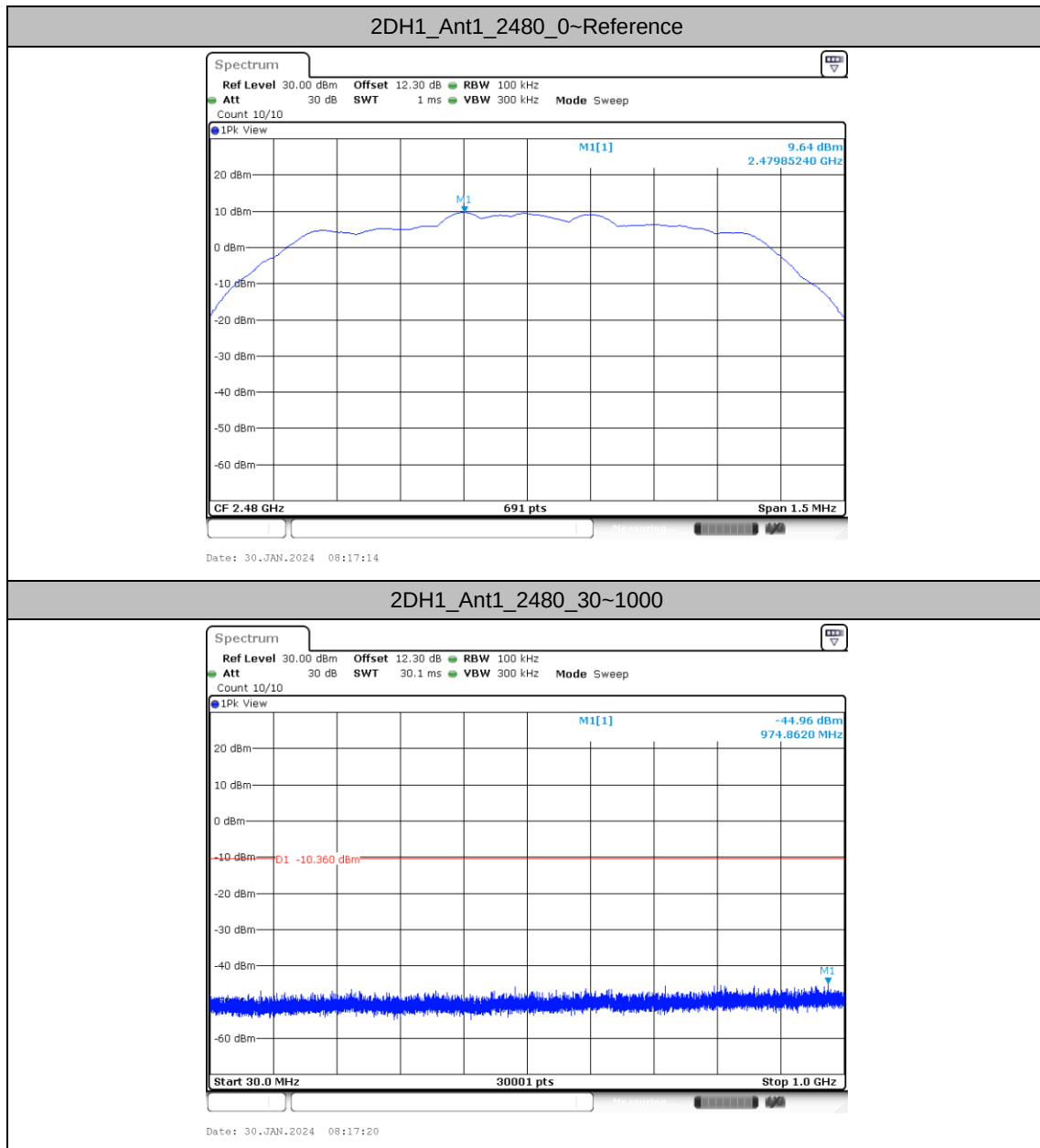


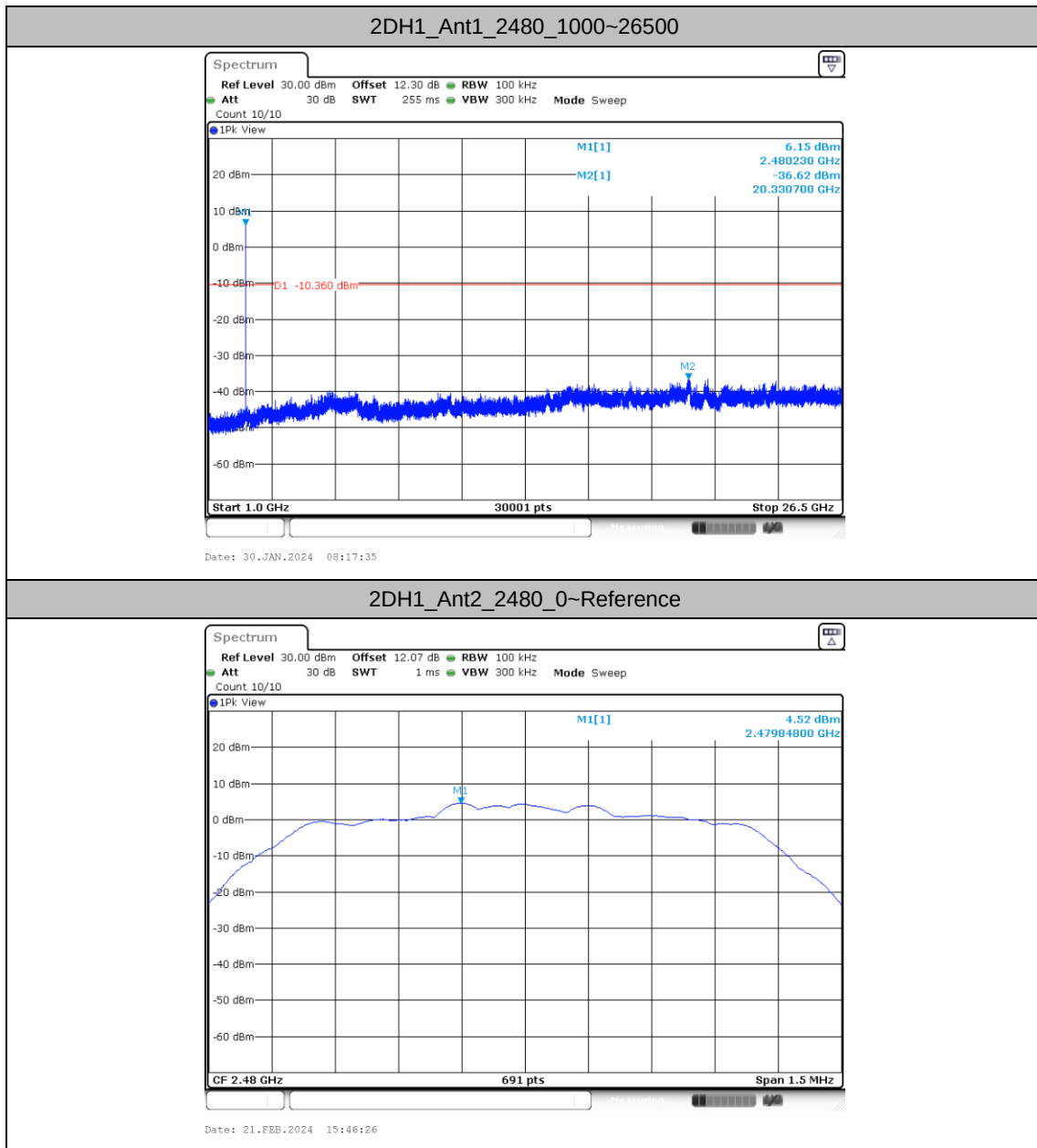


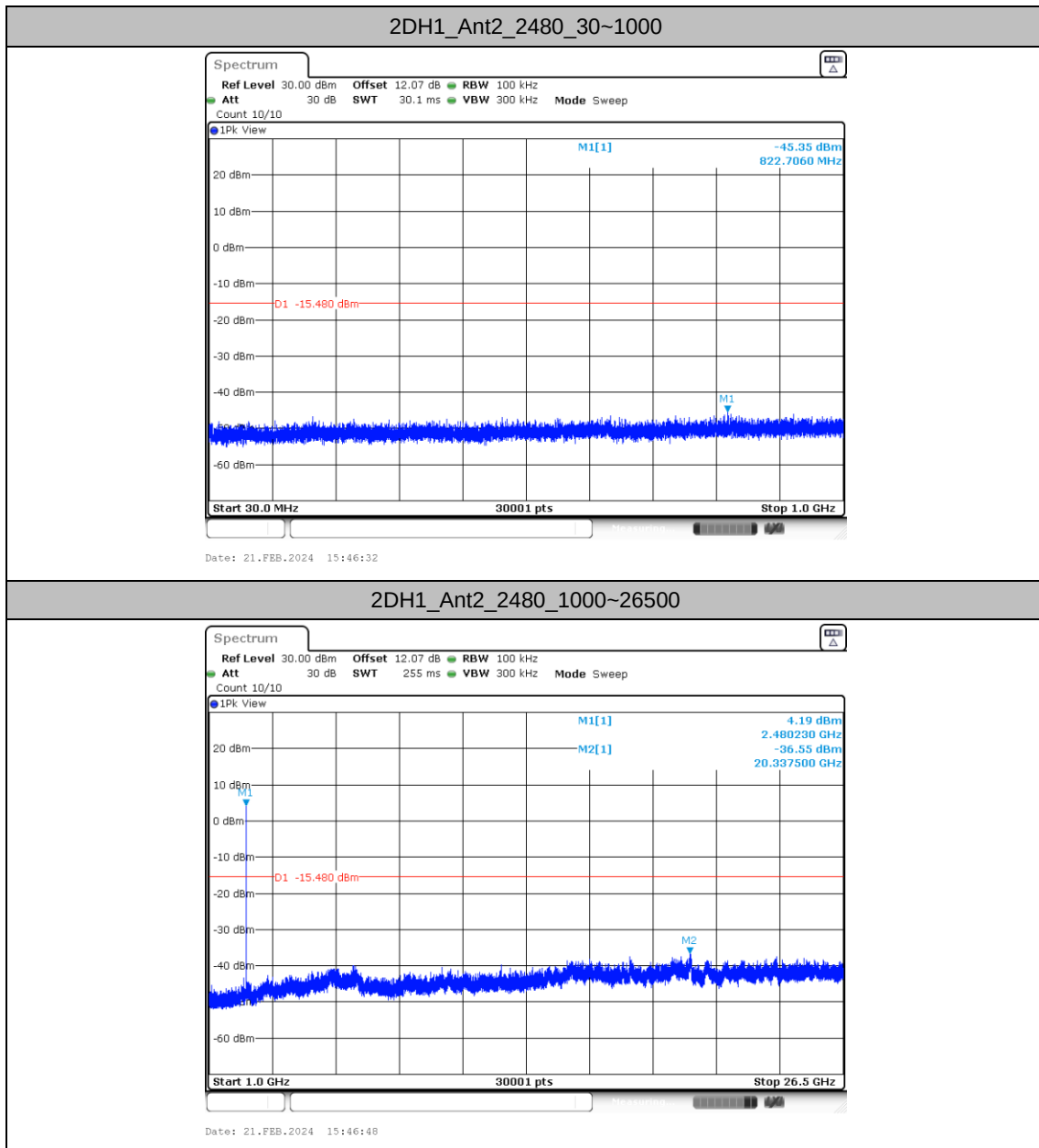


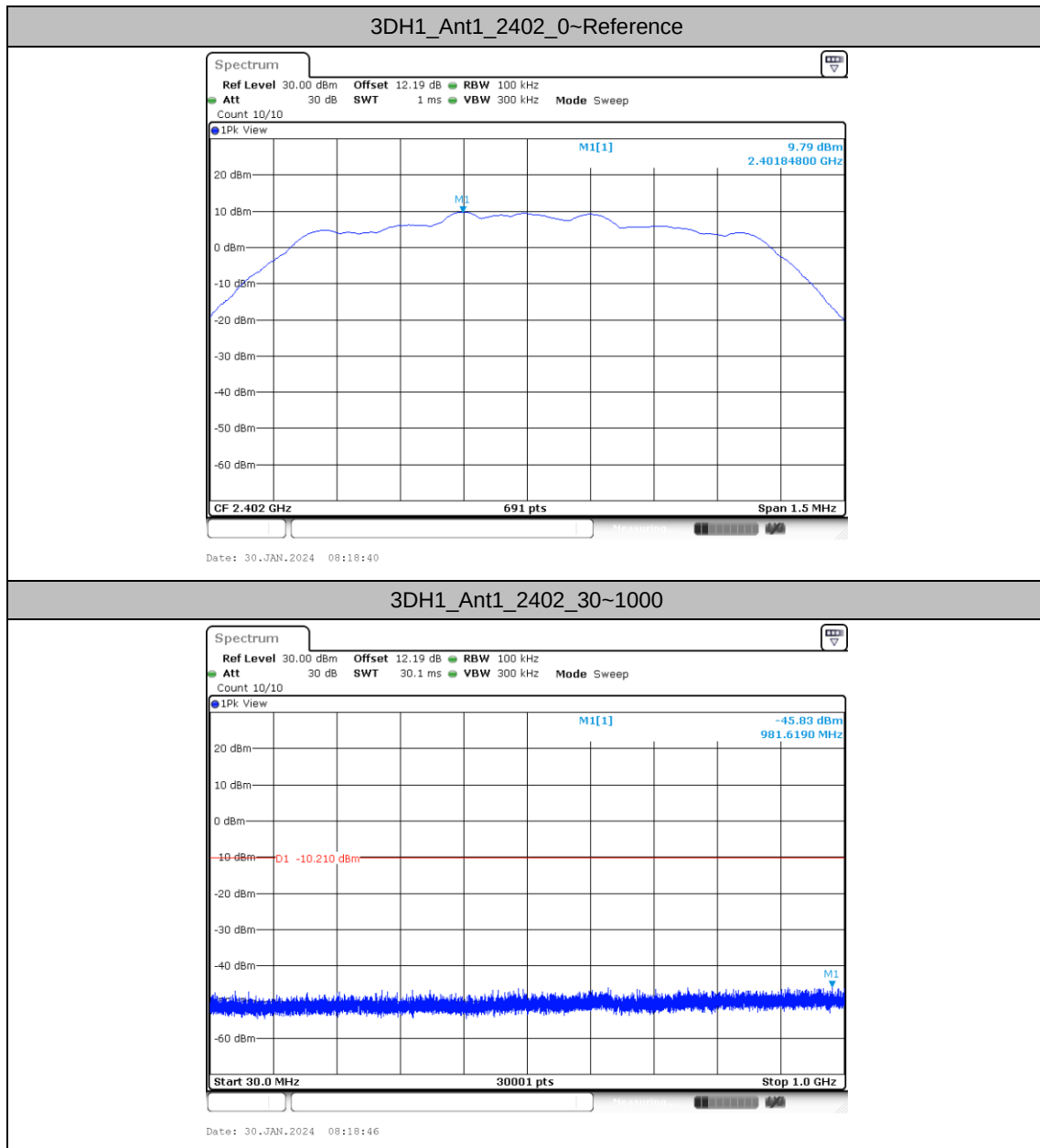


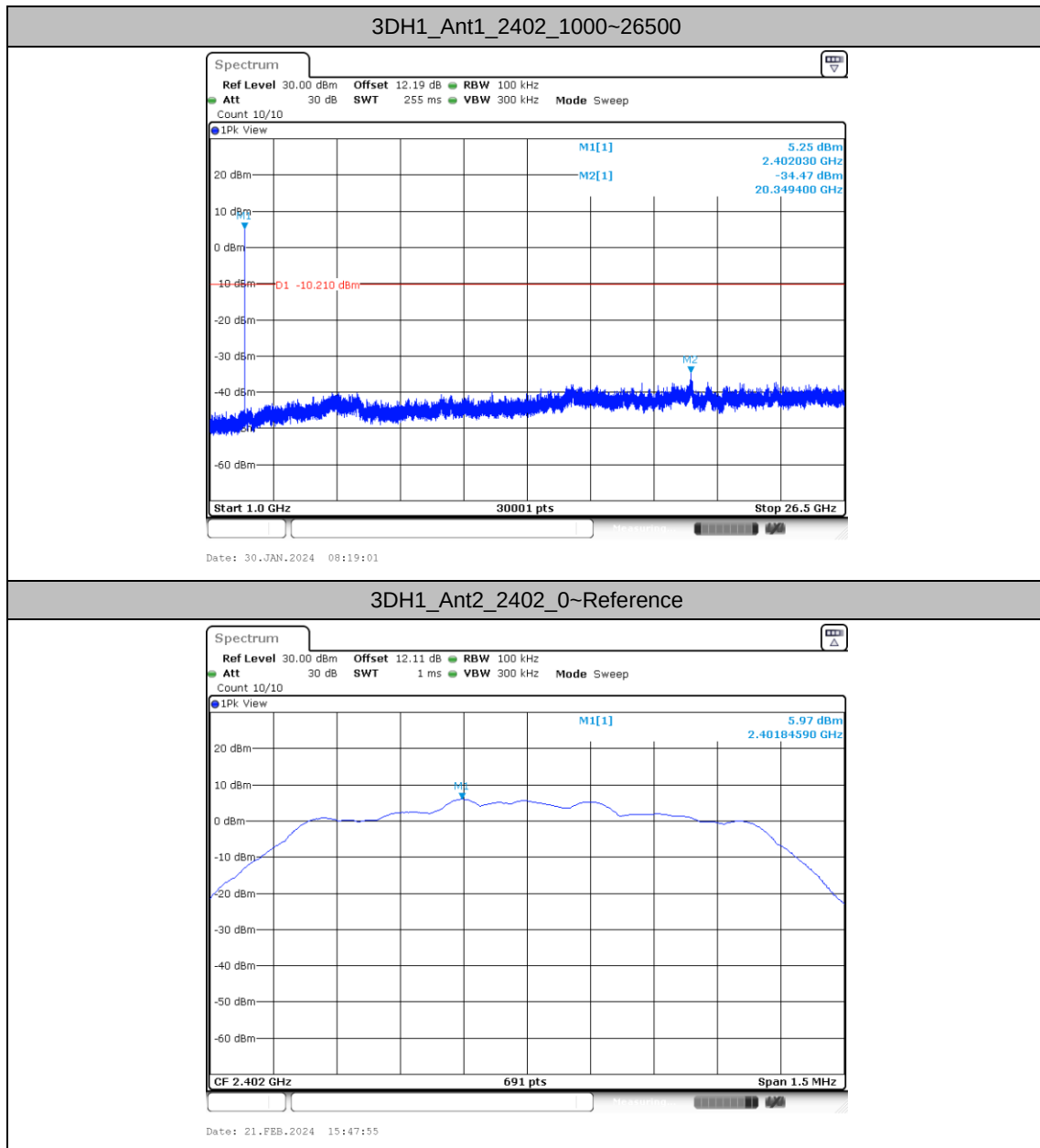


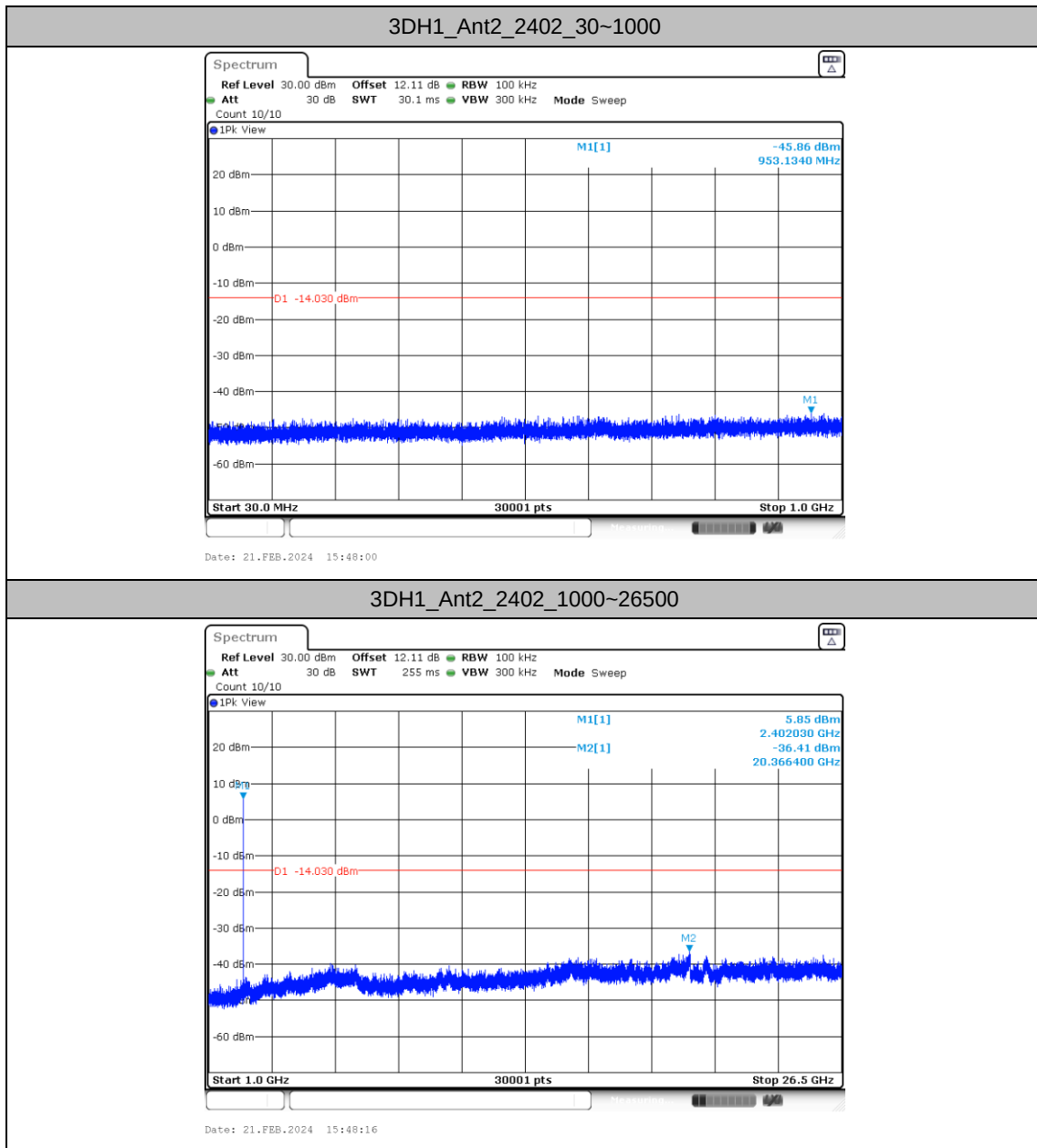


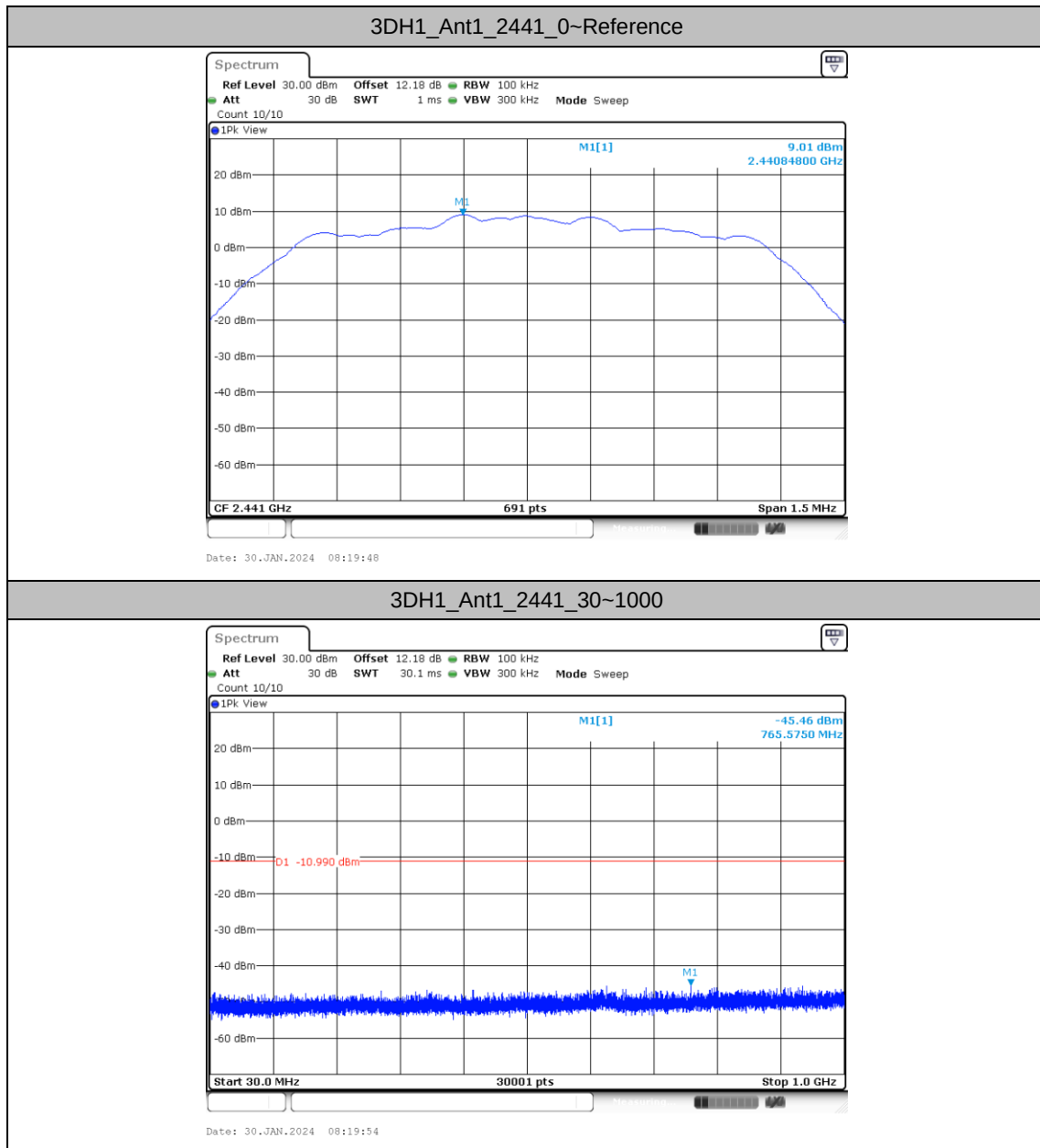


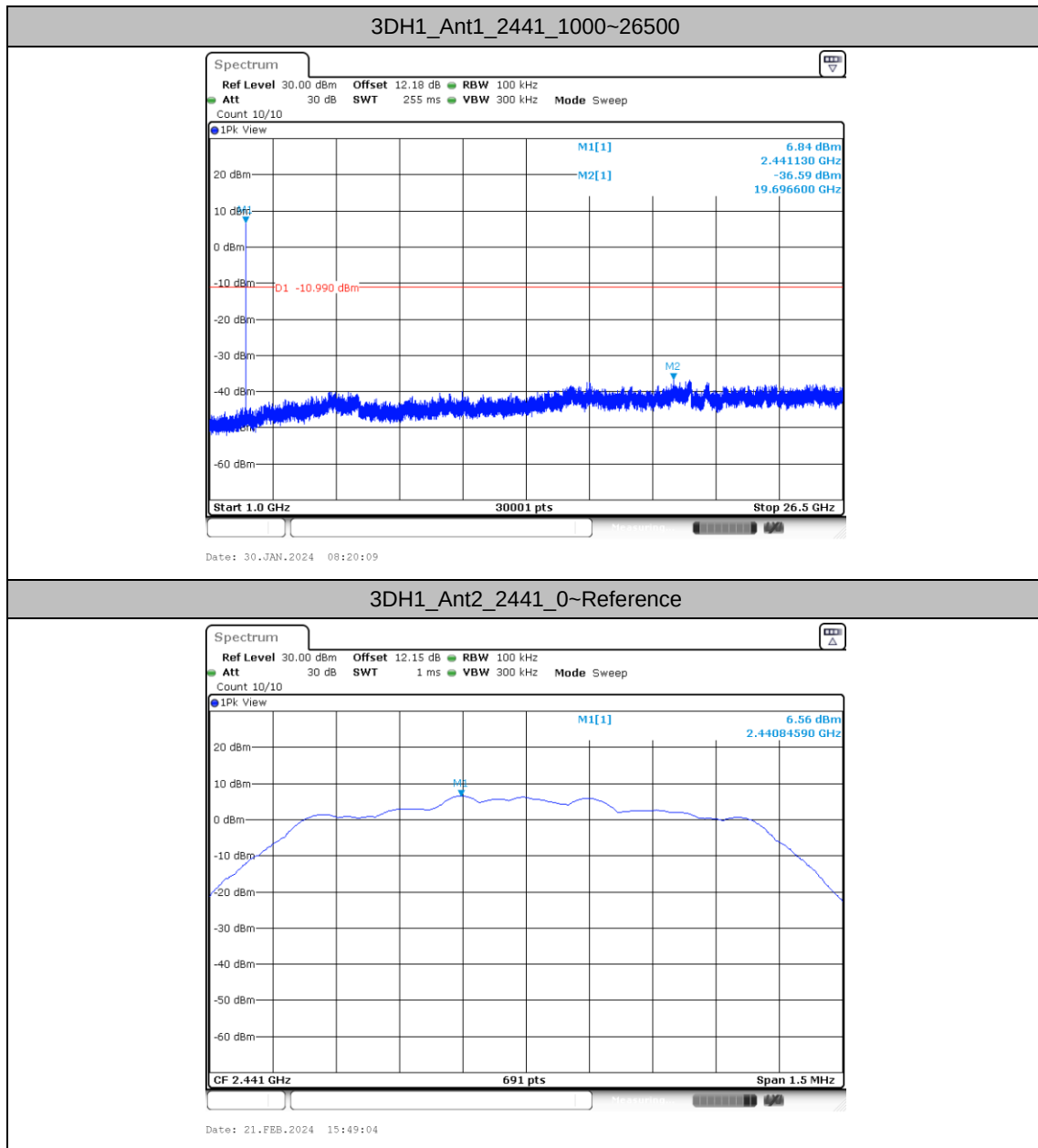


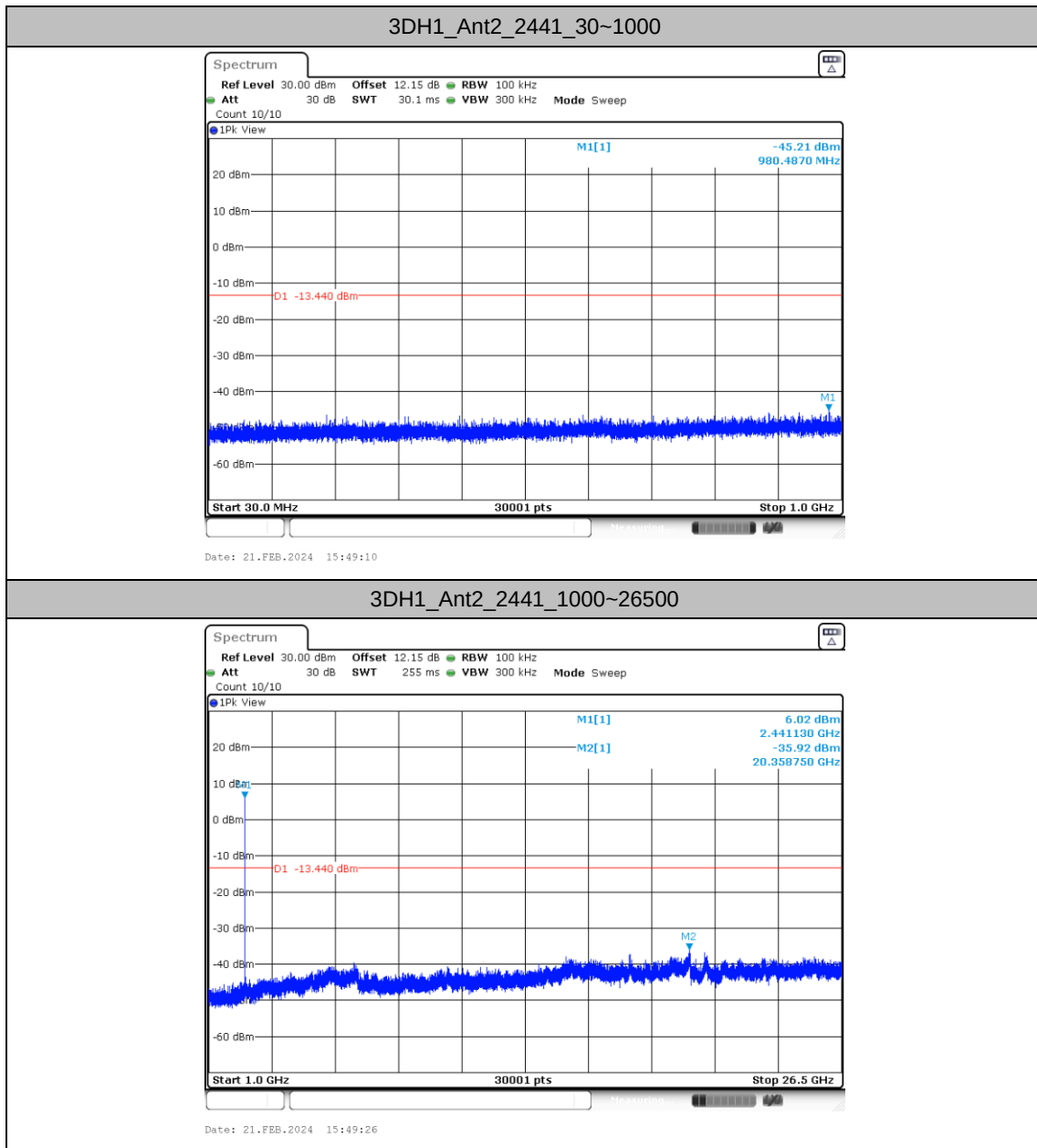


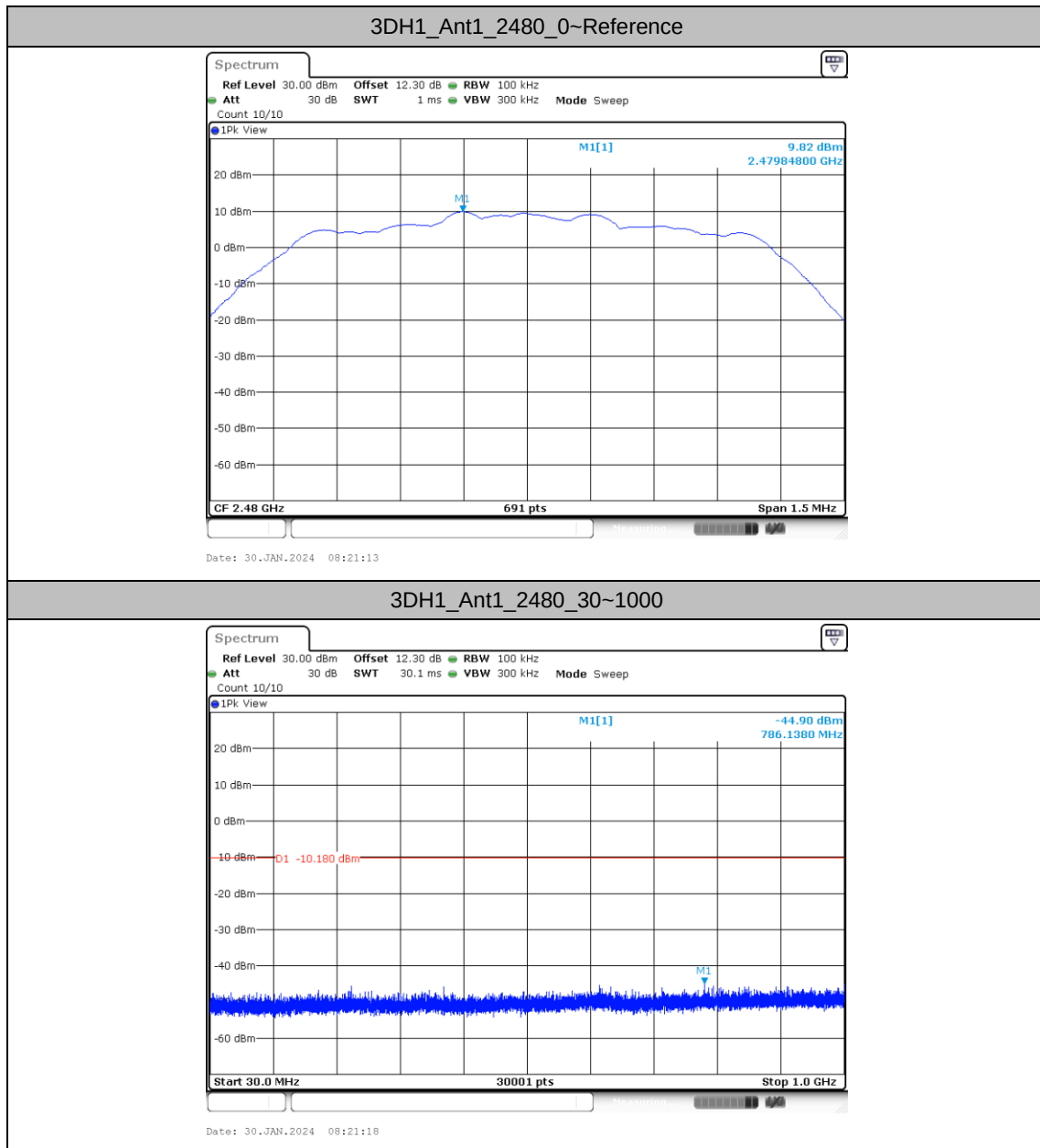


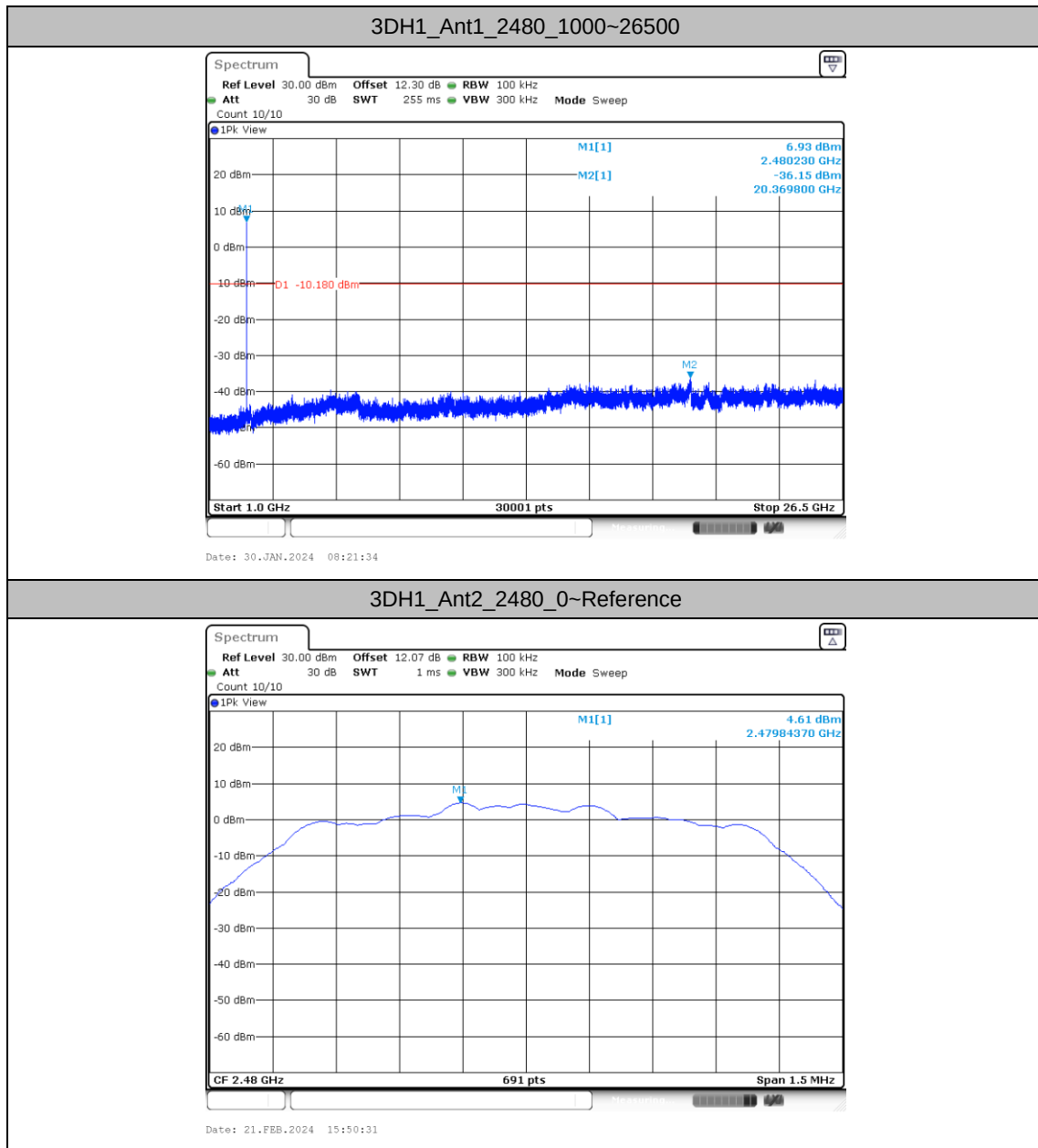


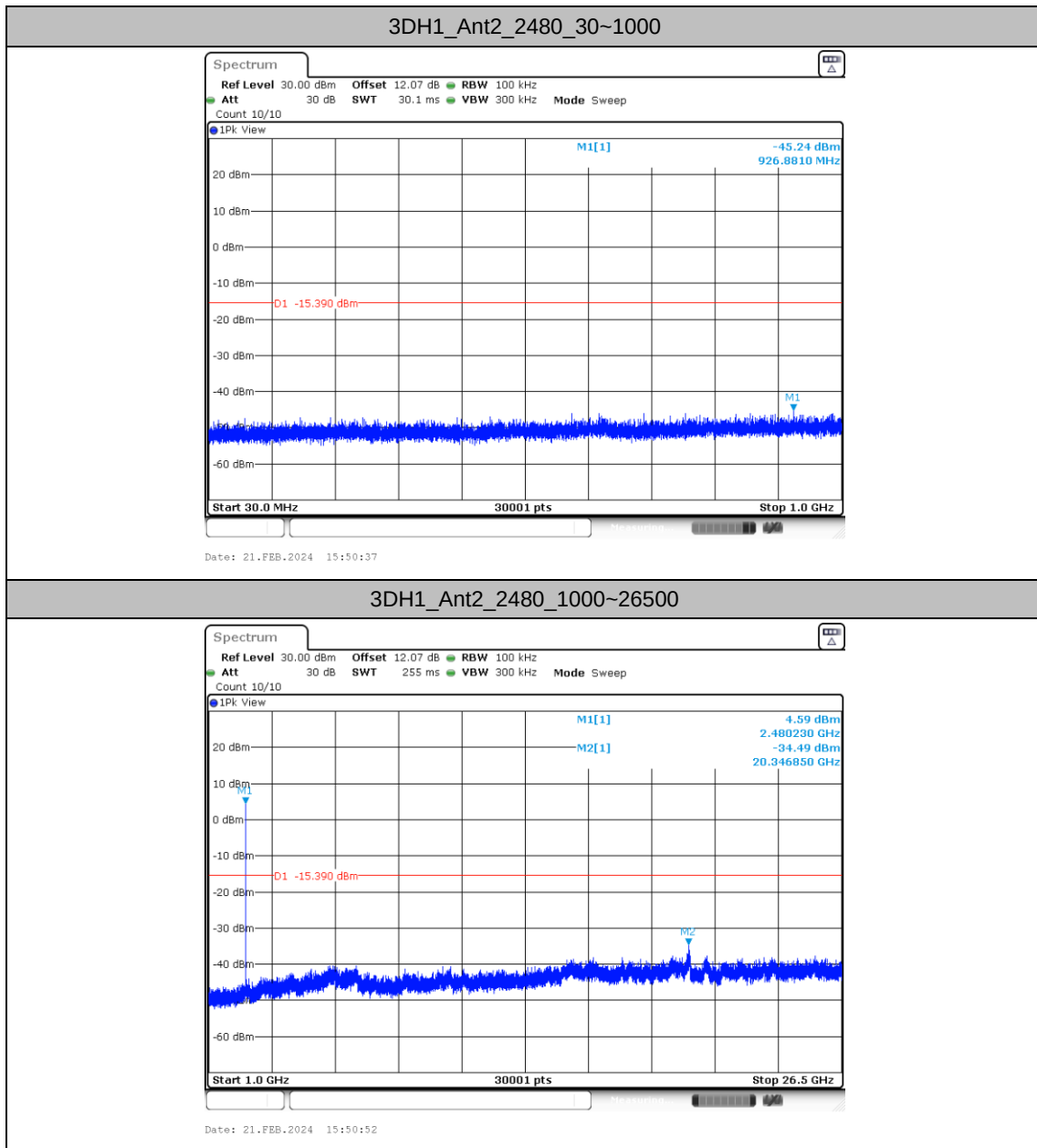






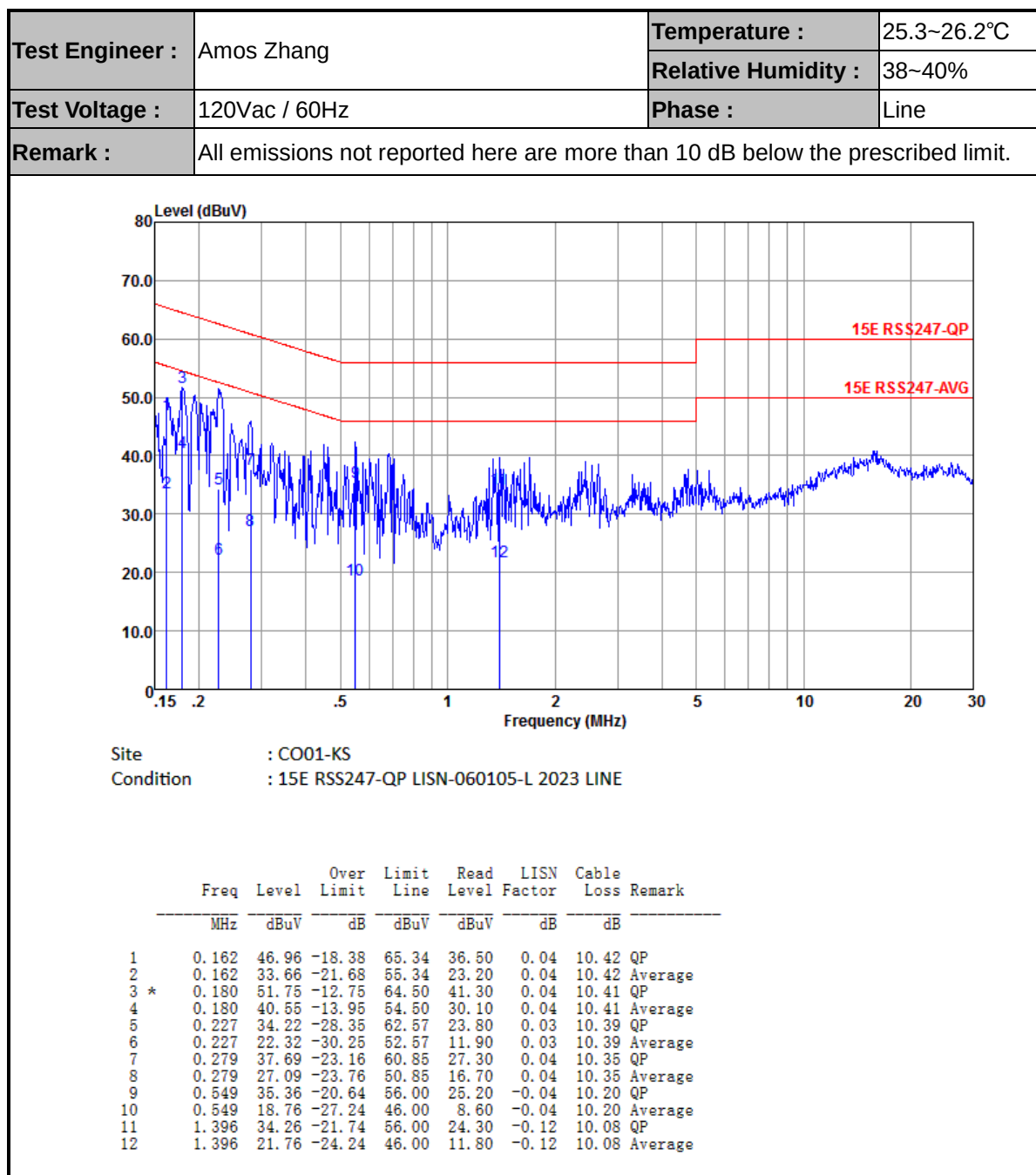






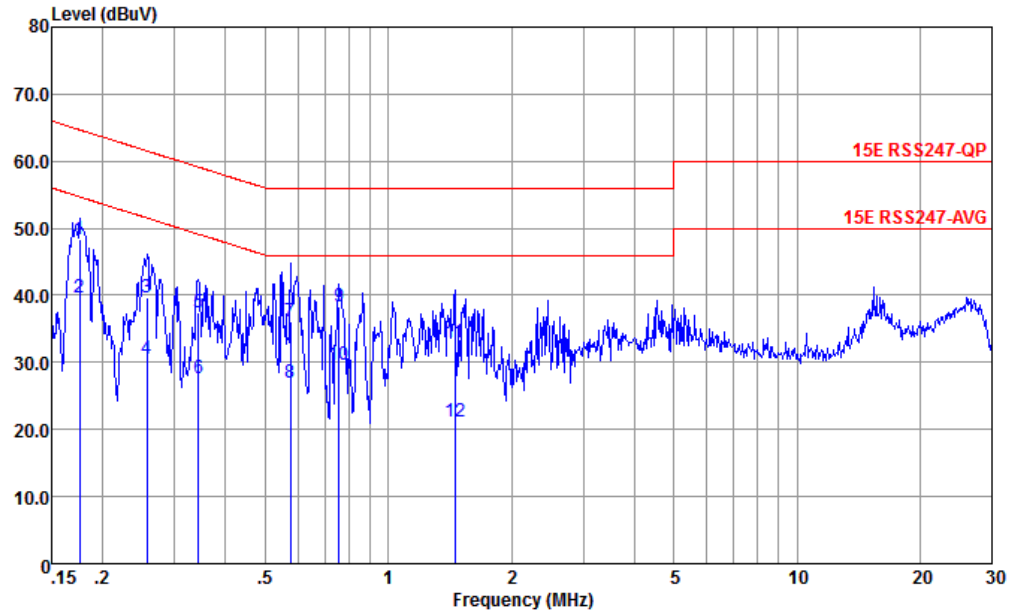


Appendix B. AC Conducted Emission Test Results





Test Engineer :	Amos Zhang	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 : 15E RSS247-QP LISN-060105-N 2023 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1	0.176	48.36	-16.32	64.68	37.90	0.05	10.41	QP
2 *	0.176	39.56	-15.12	54.68	29.10	0.05	10.41	Average
3	0.256	39.76	-21.80	61.56	29.41	-0.01	10.36	QP
4	0.256	30.46	-21.10	51.56	20.11	-0.01	10.36	Average
5	0.343	37.36	-21.77	59.13	27.10	-0.05	10.31	QP
6	0.343	27.56	-21.57	49.13	17.30	-0.05	10.31	Average
7	0.576	36.02	-19.98	56.00	25.90	-0.07	10.19	QP
8	0.576	27.02	-18.98	46.00	16.90	-0.07	10.19	Average
9	0.759	38.35	-17.65	56.00	28.31	-0.08	10.12	QP
10	0.759	29.65	-16.35	46.00	19.61	-0.08	10.12	Average
11	1.456	32.87	-23.13	56.00	22.90	-0.11	10.08	QP
12	1.456	21.27	-24.73	46.00	11.30	-0.11	10.08	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

Test Engineer :	levi zhao	Relative Humidity :	41~42%
		Temperature :	22~23℃

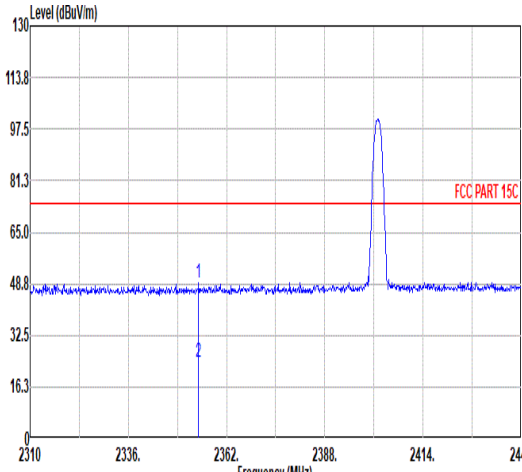
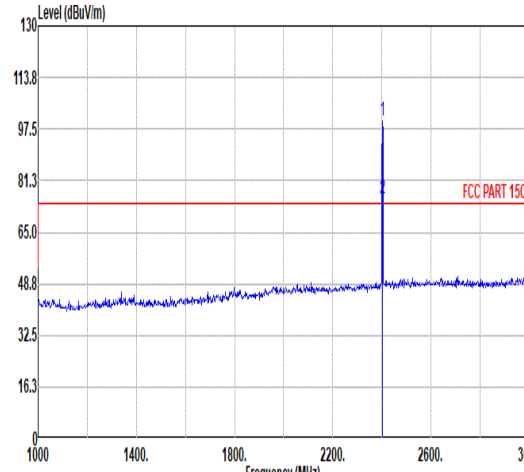
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	1	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	1	Bluetooth BR_GFSK	78	2480	1Mbps	-	-
Mode 4	2400-2483.5	2	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 5	2400-2483.5	2	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 6	2400-2483.5	2	Bluetooth BR_GFSK	78	2480	1Mbps	-	-

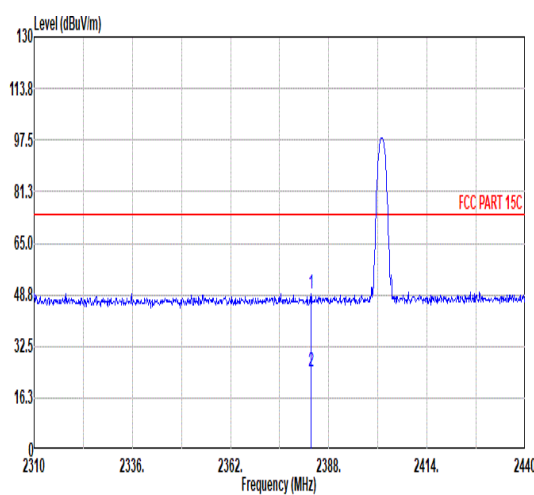
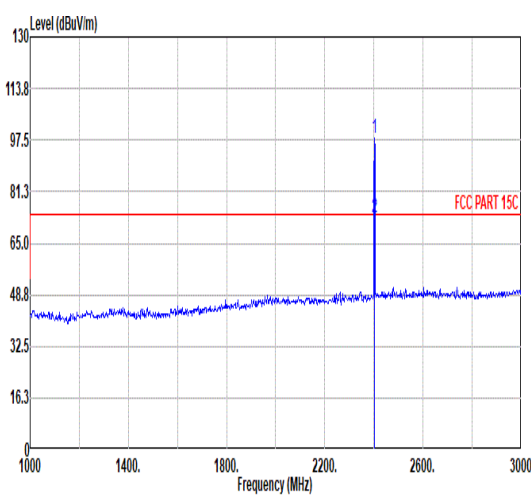
Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	Bluetooth BR_GFSK	00	2383.32	49.23	74.00	-24.77	V	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	39.76	74.00	-34.24	H	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	7323.00	42.98	74.00	-31.02	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2484.48	49.89	74.00	-24.11	H	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	7440.00	43.06	74.00	-30.94	V	PEAK	Pass	Harmonic
4	Bluetooth BR_GFSK	00	2365.51	49.19	74.00	-24.81	H	PEAK	Pass	Band Edge
4	Bluetooth BR_GFSK	00	4804.00	39.72	74.00	-34.28	V	PEAK	Pass	Harmonic
5	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
5	Bluetooth BR_GFSK	39	7323.00	42.89	74.00	-31.11	V	PEAK	Pass	Harmonic
6	Bluetooth BR_GFSK	78	2487.67	49.98	74.00	-24.02	H	PEAK	Pass	Band Edge
6	Bluetooth BR_GFSK	78	7440.00	41.84	74.00	-32.16	H	PEAK	Pass	Harmonic

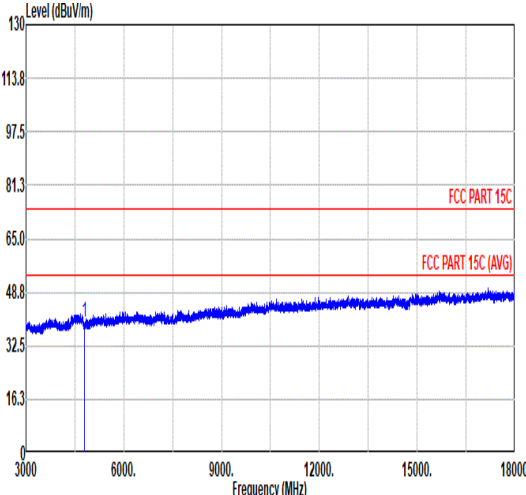
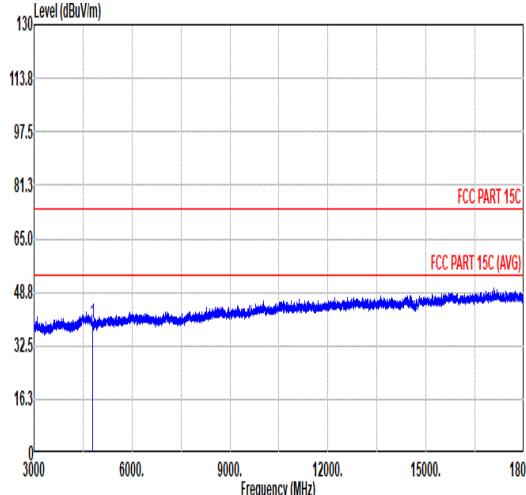


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ANT	1																																																																			
Pol.	Horizontal																																																																			
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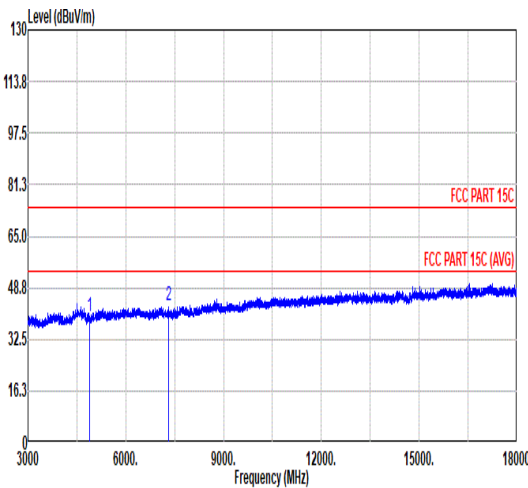
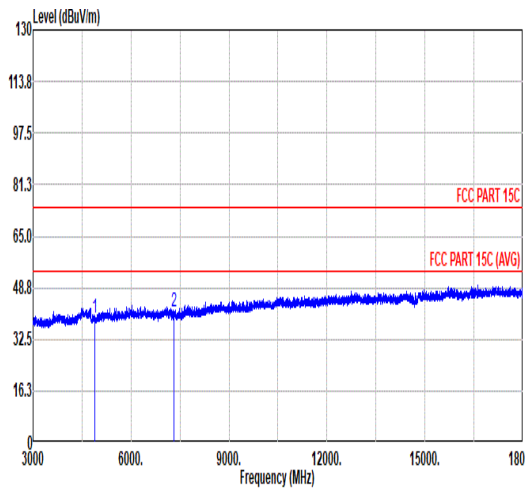


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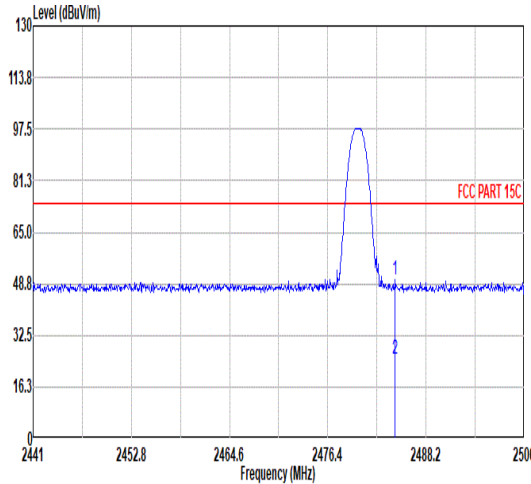
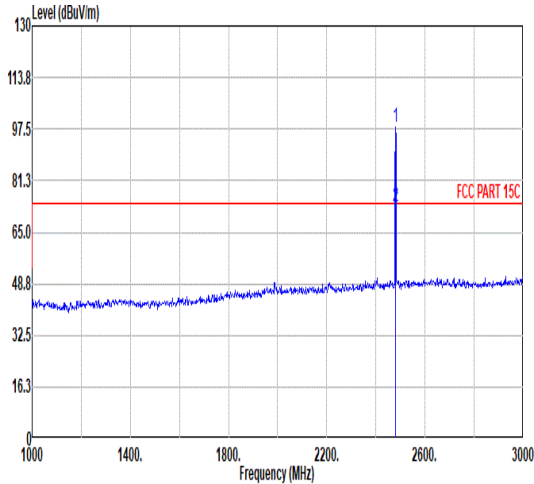


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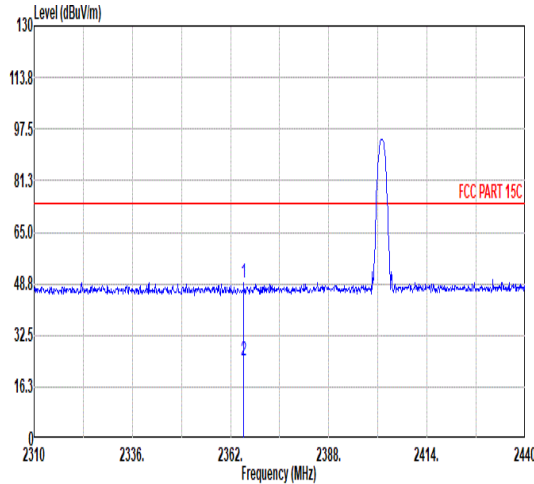
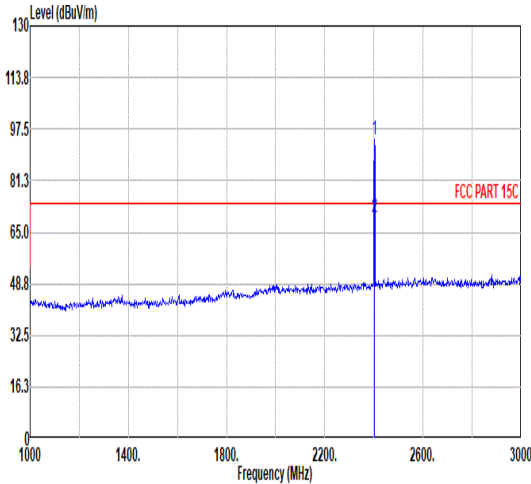


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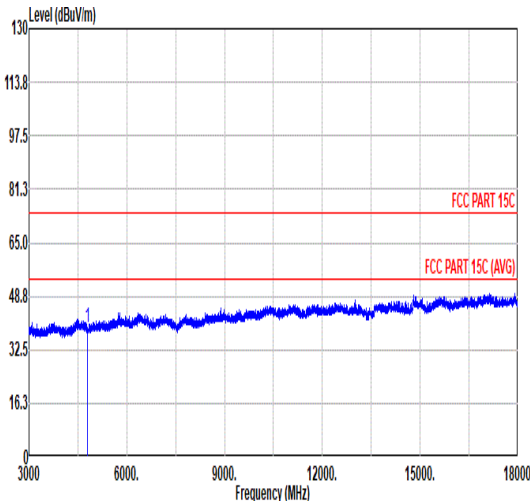
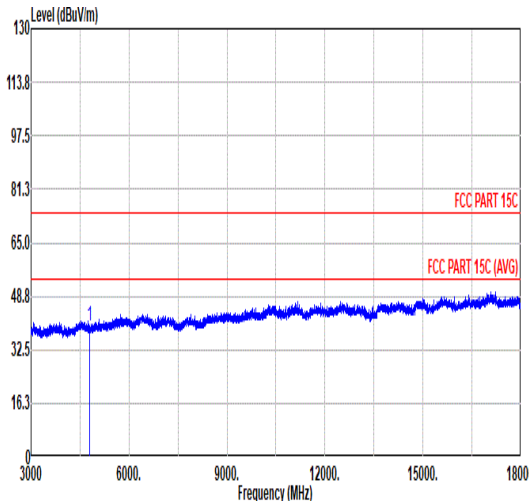


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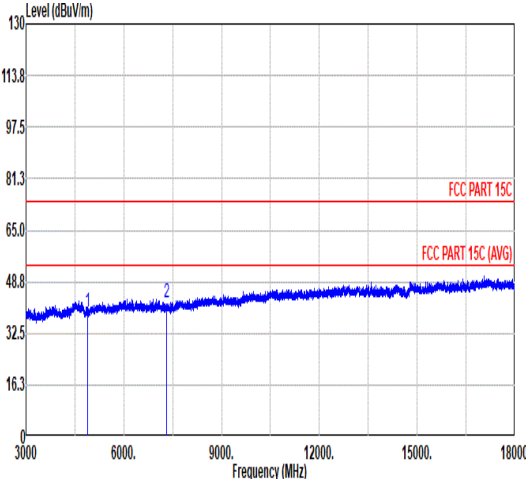
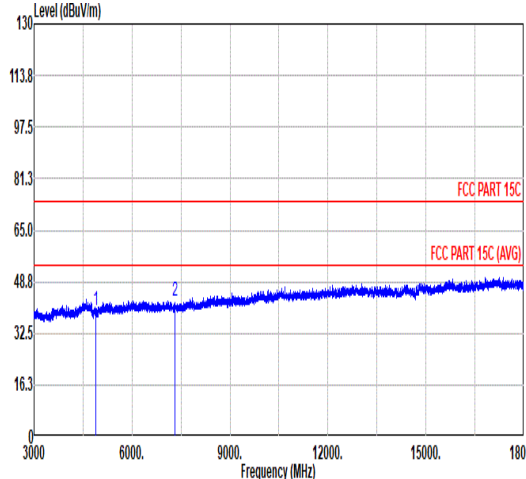


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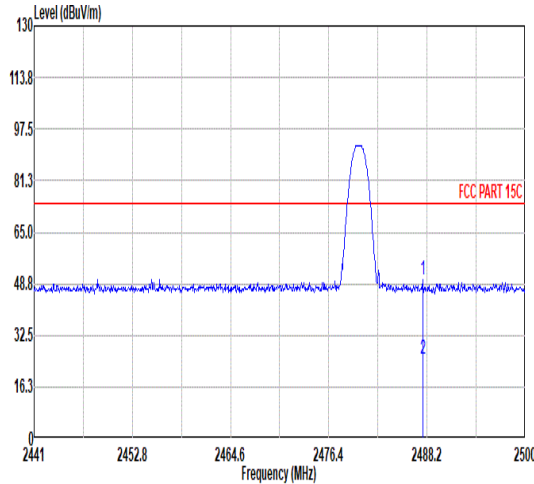
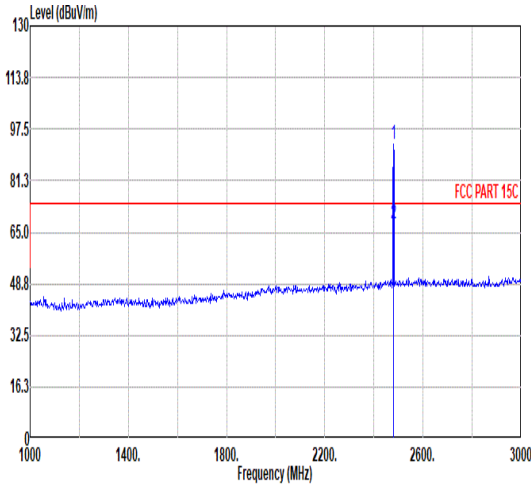


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1	4882.00	39.49	74.00	-34.51	60.57	33.90	10.30	65.28	0.00	--	--	PEAK																																																																																																																																
2	7323.00	42.39	74.00	-31.61	60.45	35.70	12.72	66.48	0.00	--	--	PEAK																																																																																																																																
		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	4882.00	39.67	74.00	-34.33	60.75	33.90	10.30	65.28	0.00	--	--	PEAK																																																																																																																																
2	7323.00	42.89	74.00	-31.11	60.95	35.70	12.72	66.48	0.00	--	--	PEAK																																																																																																																																

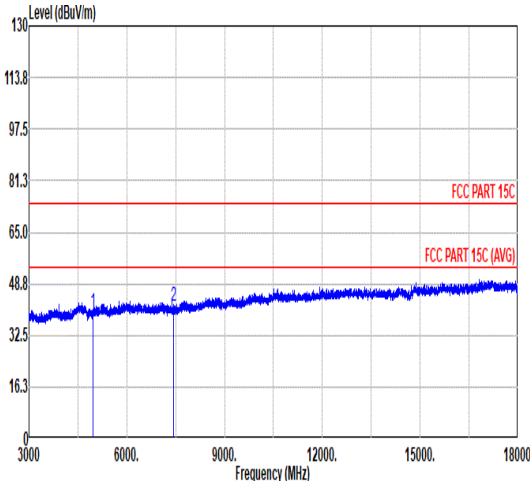
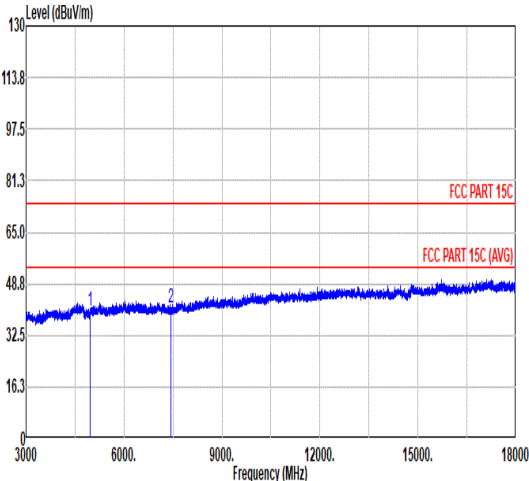


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Pol.	Horizontal																																																																				
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	<table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><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><tr><td>1</td><td>2487.67</td><td>49.98</td><td>74.00</td><td>-24.02</td><td>41.16</td><td>32.54</td><td>7.26</td><td>36.98</td><td>6.00</td><td>103</td><td>124</td><td>PEAK</td></tr><tr><td>2</td><td>2487.67</td><td>25.19</td><td>54.00</td><td>-28.81</td><td>16.37</td><td>32.54</td><td>7.26</td><td>36.98</td><td>6.00</td><td>103</td><td>124</td><td>AVERAGE</td></tr></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	2487.67	49.98	74.00	-24.02	41.16	32.54	7.26	36.98	6.00	103	124	PEAK	2	2487.67	25.19	54.00	-28.81	16.37	32.54	7.26	36.98	6.00	103	124	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	2487.67	49.98	74.00	-24.02	41.16	32.54	7.26	36.98	6.00	103	124	PEAK																																																									
2	2487.67	25.19	54.00	-28.81	16.37	32.54	7.26	36.98	6.00	103	124	AVERAGE																																																									
																																																																					
<table><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><tr><td>1</td><td>2480.00</td><td>92.60</td><td>-----</td><td>-----</td><td>83.82</td><td>32.50</td><td>7.25</td><td>36.97</td><td>6.00</td><td>103</td><td>124</td><td>PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>67.81</td><td>-----</td><td>-----</td><td>59.03</td><td>32.50</td><td>7.25</td><td>36.97</td><td>6.00</td><td>103</td><td>124</td><td>AVERAGE</td></tr></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	2480.00	92.60	-----	-----	83.82	32.50	7.25	36.97	6.00	103	124	PEAK	2	2480.00	67.81	-----	-----	59.03	32.50	7.25	36.97	6.00	103	124	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	92.60	-----	-----	83.82	32.50	7.25	36.97	6.00	103	124	PEAK																																																									
2	2480.00	67.81	-----	-----	59.03	32.50	7.25	36.97	6.00	103	124	AVERAGE																																																									

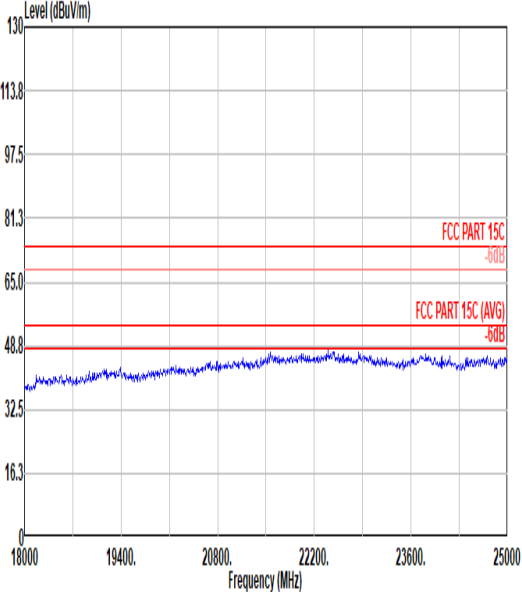
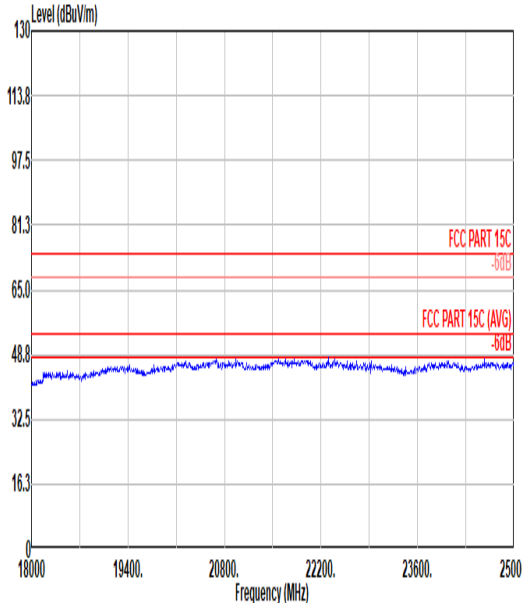


Mode	6																																																																																																																													
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Peak/Avg.	<p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>FCC PART 15C</p> <table><tr><th></th><th>Limit</th><th>Read</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><tr><td>1</td><td>2497.88</td><td>49.31</td><td>74.00</td><td>-24.69</td><td>40.43</td><td>32.59</td><td>7.28</td><td>36.99</td><td>6.00</td><td>301</td><td>171</td><td>PEAK</td></tr><tr><td>2</td><td>2497.88</td><td>24.52</td><td>54.00</td><td>-29.48</td><td>15.64</td><td>32.59</td><td>7.28</td><td>36.99</td><td>6.00</td><td>301</td><td>171</td><td>AVERAGE</td></tr></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	2497.88	49.31	74.00	-24.69	40.43	32.59	7.28	36.99	6.00	301	171	PEAK	2	2497.88	24.52	54.00	-29.48	15.64	32.59	7.28	36.99	6.00	301	171	AVERAGE	<p>Level (dBuV/m)</p> <p>Frequency (MHz)</p> <p>FCC PART 15C</p> <table><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><tr><td>1</td><td>2480.00</td><td>96.02</td><td>-----</td><td>-----</td><td>87.24</td><td>32.50</td><td>7.25</td><td>36.97</td><td>6.00</td><td>301</td><td>171</td><td>PEAK</td></tr><tr><td>2</td><td>2480.00</td><td>71.23</td><td>-----</td><td>-----</td><td>62.45</td><td>32.50</td><td>7.25</td><td>36.97</td><td>6.00</td><td>301</td><td>171</td><td>AVERAGE</td></tr></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	2480.00	96.02	-----	-----	87.24	32.50	7.25	36.97	6.00	301	171	PEAK	2	2480.00	71.23	-----	-----	62.45	32.50	7.25	36.97	6.00	301	171	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	2497.88	49.31	74.00	-24.69	40.43	32.59	7.28	36.99	6.00	301	171	PEAK																																																																																																																		
2	2497.88	24.52	54.00	-29.48	15.64	32.59	7.28	36.99	6.00	301	171	AVERAGE																																																																																																																		
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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	96.02	-----	-----	87.24	32.50	7.25	36.97	6.00	301	171	PEAK																																																																																																																		
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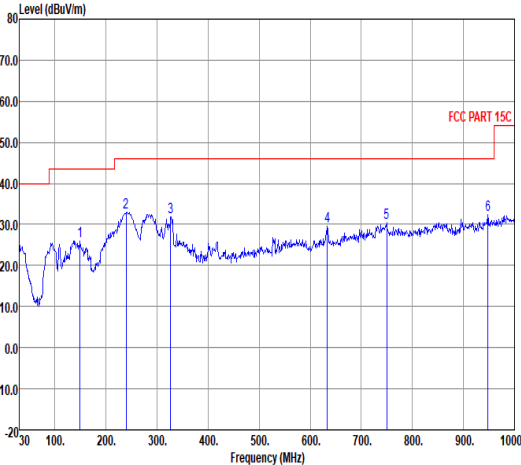
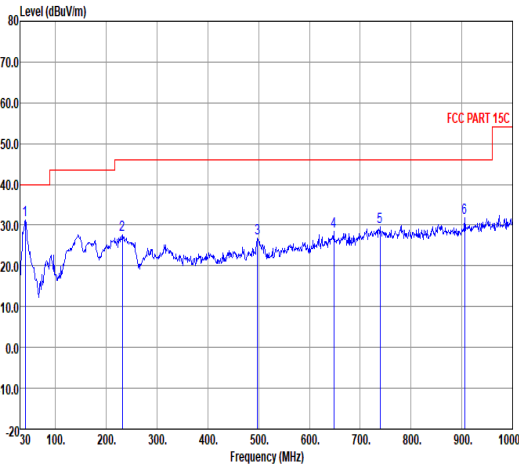
Mode	6																																																																																																																									
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ANT	2																																																																																																																									
Pol.	Horizontal						Vertical																																																																																																																			
Peak Avg																																																																																																																										
	<table><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><tr><td>1</td><td>4960.00</td><td>39.86</td><td>74.00</td><td>-34.14</td><td>60.75</td><td>34.02</td><td>10.40</td><td>65.31</td><td>0.00</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>41.84</td><td>74.00</td><td>-32.16</td><td>60.13</td><td>35.74</td><td>12.78</td><td>66.81</td><td>0.00</td><td>--</td><td>PEAK</td></tr></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	39.86	74.00	-34.14	60.75	34.02	10.40	65.31	0.00	--	PEAK	2	7440.00	41.84	74.00	-32.16	60.13	35.74	12.78	66.81	0.00	--	PEAK	<table><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><tr><td>1</td><td>4960.00</td><td>40.22</td><td>74.00</td><td>-33.78</td><td>61.11</td><td>34.02</td><td>10.40</td><td>65.31</td><td>0.00</td><td>--</td><td>PEAK</td></tr><tr><td>2</td><td>7440.00</td><td>41.37</td><td>74.00</td><td>-32.63</td><td>59.66</td><td>35.74</td><td>12.78</td><td>66.81</td><td>0.00</td><td>--</td><td>PEAK</td></tr></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	40.22	74.00	-33.78	61.11	34.02	10.40	65.31	0.00	--	PEAK	2	7440.00	41.37	74.00	-32.63	59.66	35.74	12.78	66.81	0.00	--	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	4960.00	39.86	74.00	-34.14	60.75	34.02	10.40	65.31	0.00	--	PEAK																																																																																																															
2	7440.00	41.84	74.00	-32.16	60.13	35.74	12.78	66.81	0.00	--	PEAK																																																																																																															
	Limit	Read	Ant	Cable	Preamp	Aux	APos	TPos																																																																																																																		
Freq	Level	Line	Margin	Level	Factor	Loss	Factor	Factor	Remark																																																																																																																	
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1	4960.00	40.22	74.00	-33.78	61.11	34.02	10.40	65.31	0.00	--	PEAK																																																																																																															
2	7440.00	41.37	74.00	-32.63	59.66	35.74	12.78	66.81	0.00	--	PEAK																																																																																																															



Mode	6	
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	2400-2483.5_Bluetooth BR_GFSK_CH78_2480MHz	
ANT	2	
Pol.	Horizontal	Vertical
Peak Avg		

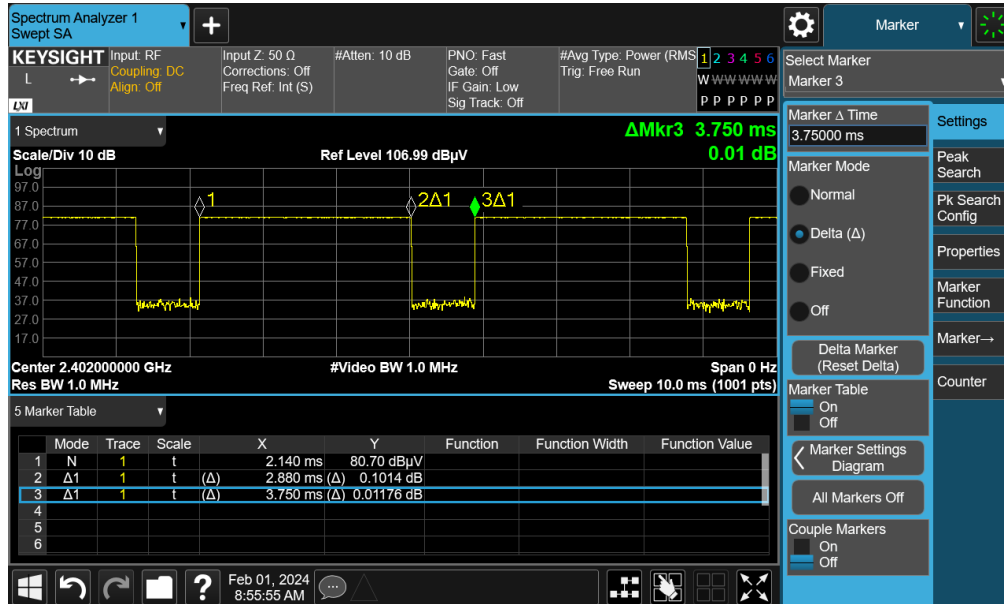
Note: Only the worst case has assessed 18G ~25GHz to test.



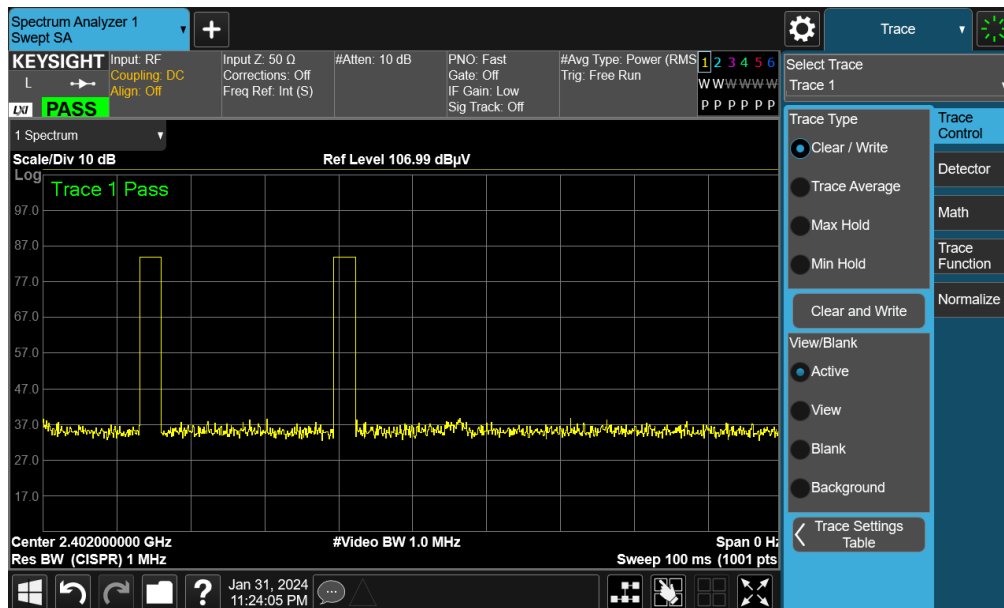
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Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 00



DH5 on time (Count Pulses) Plot on Channel 00



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. DH5 has the highest duty cycle worst case and is reported.