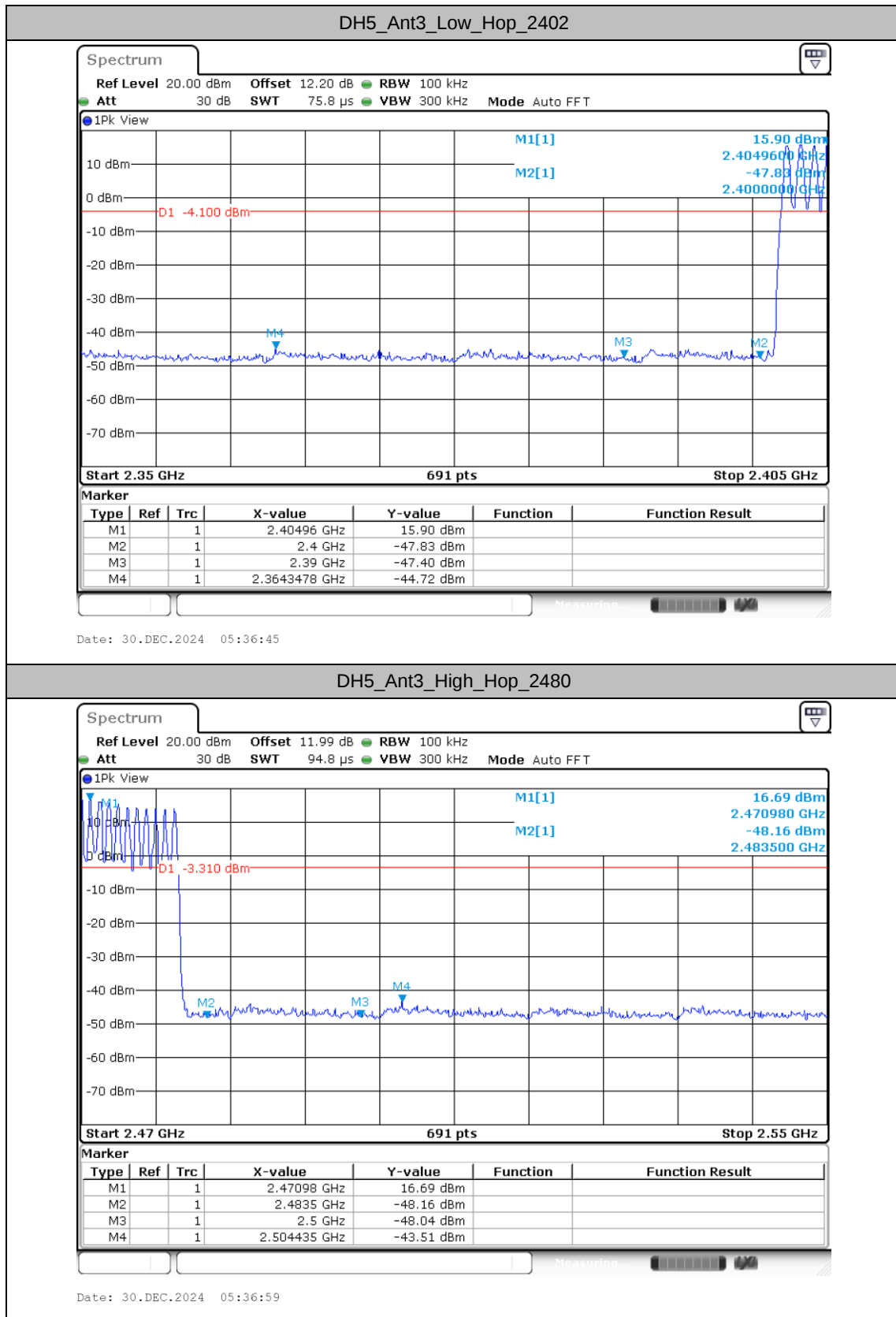
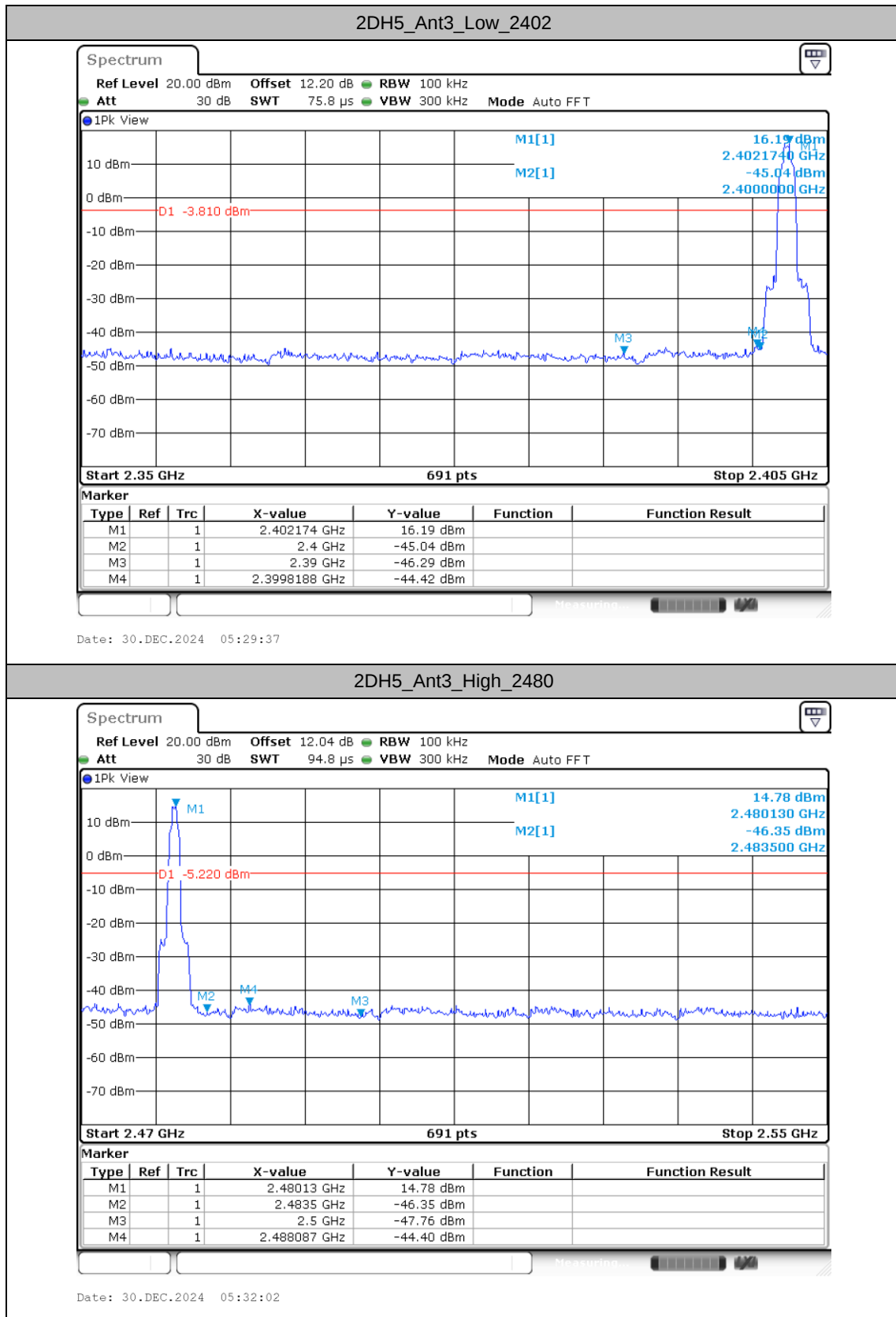
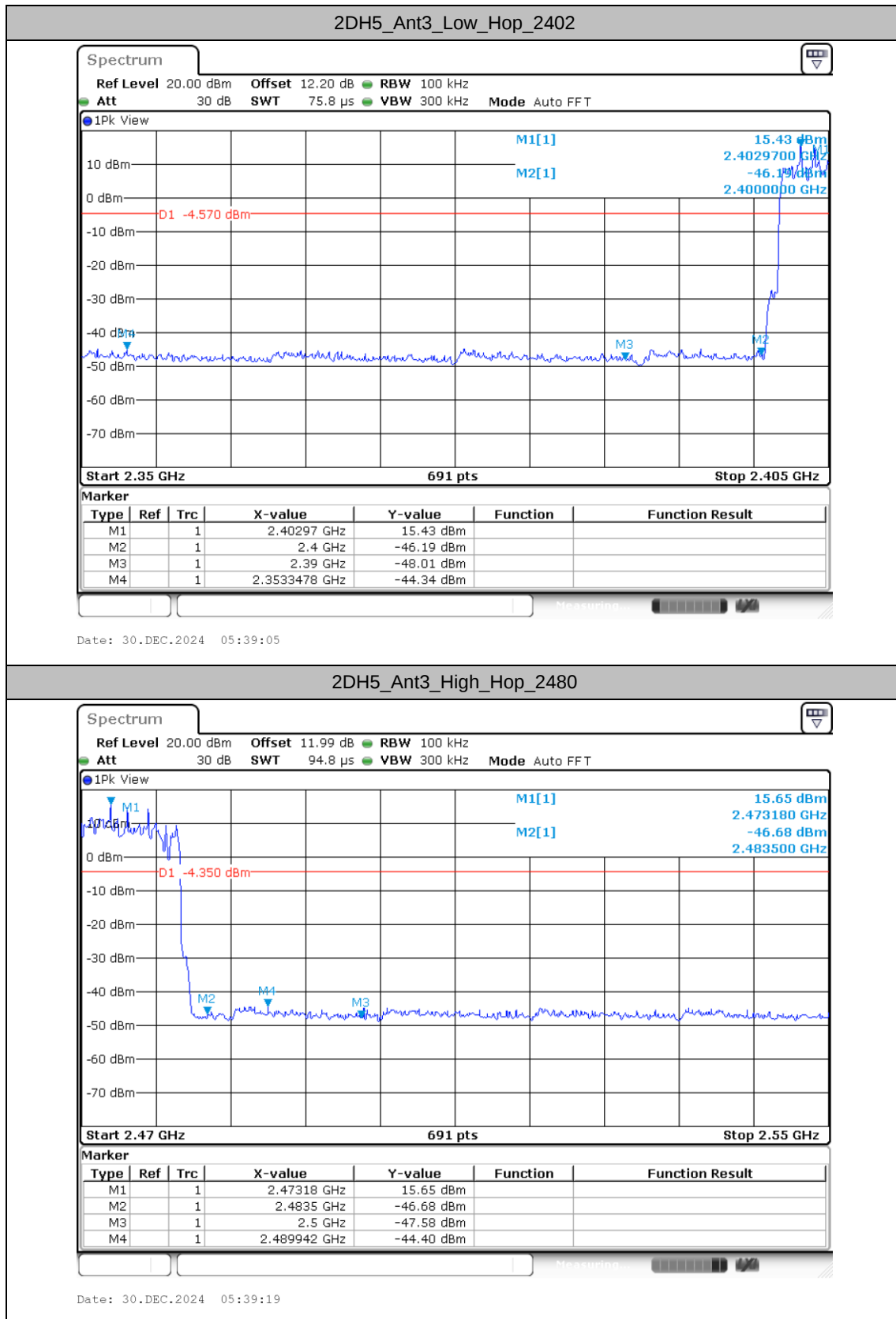
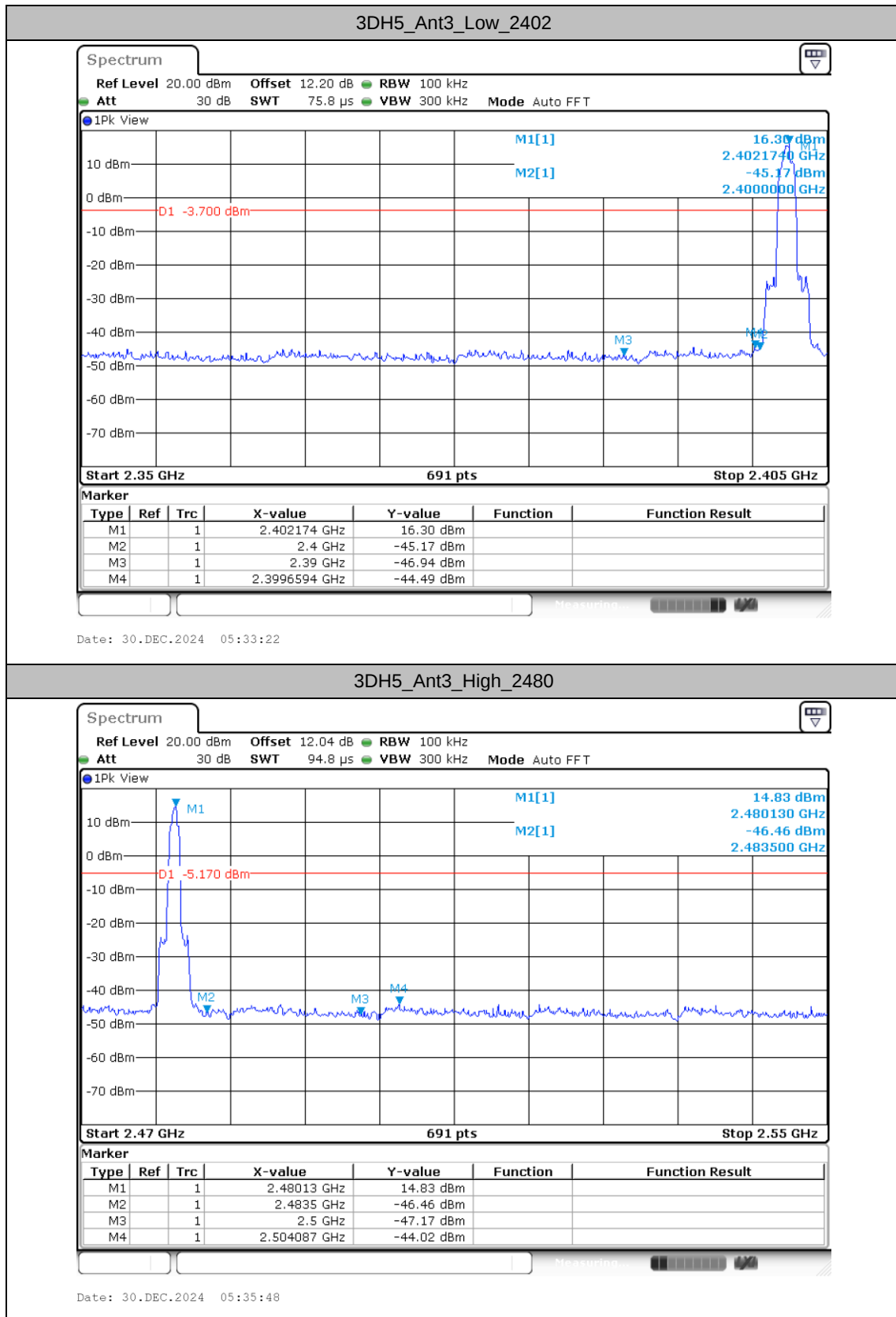
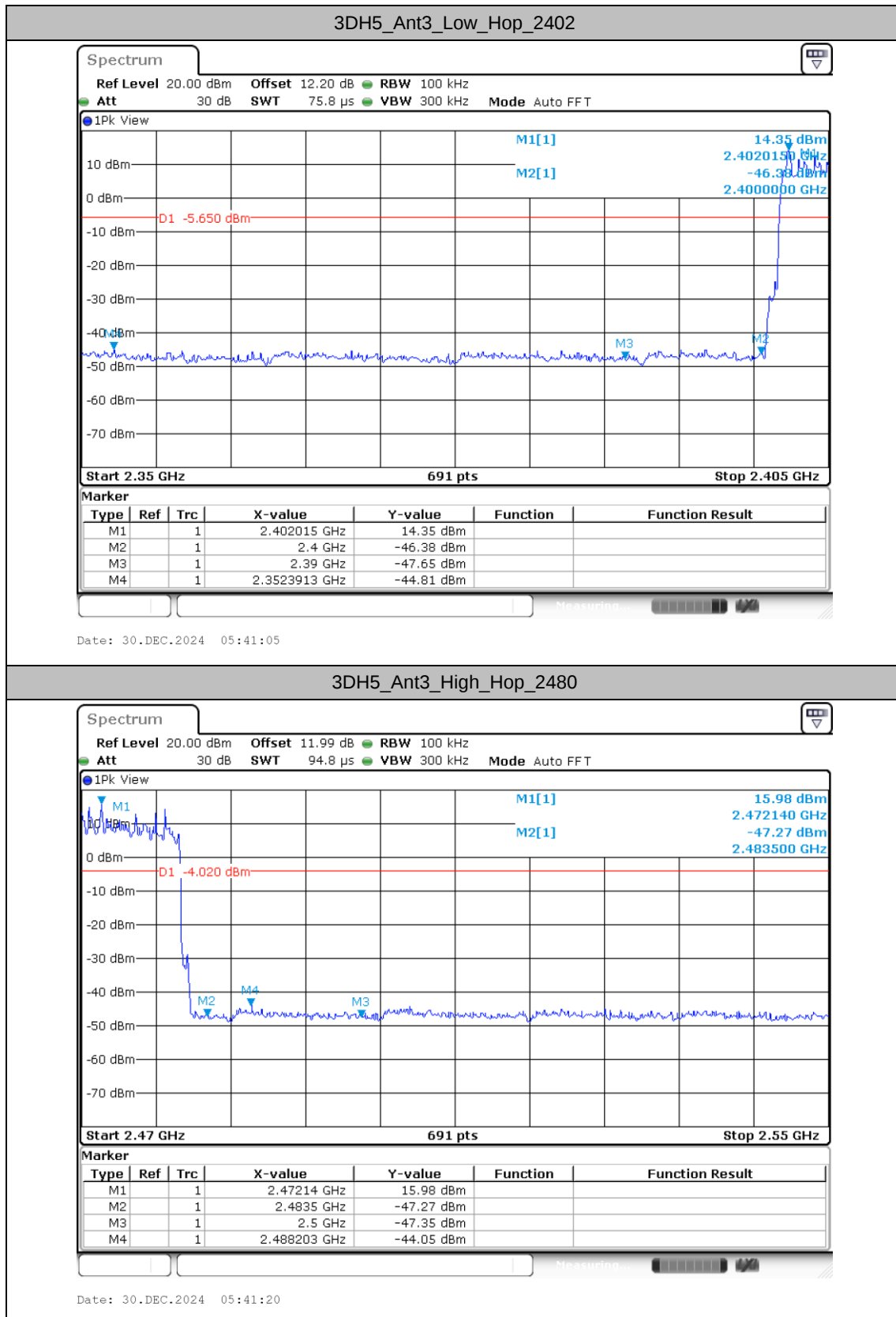














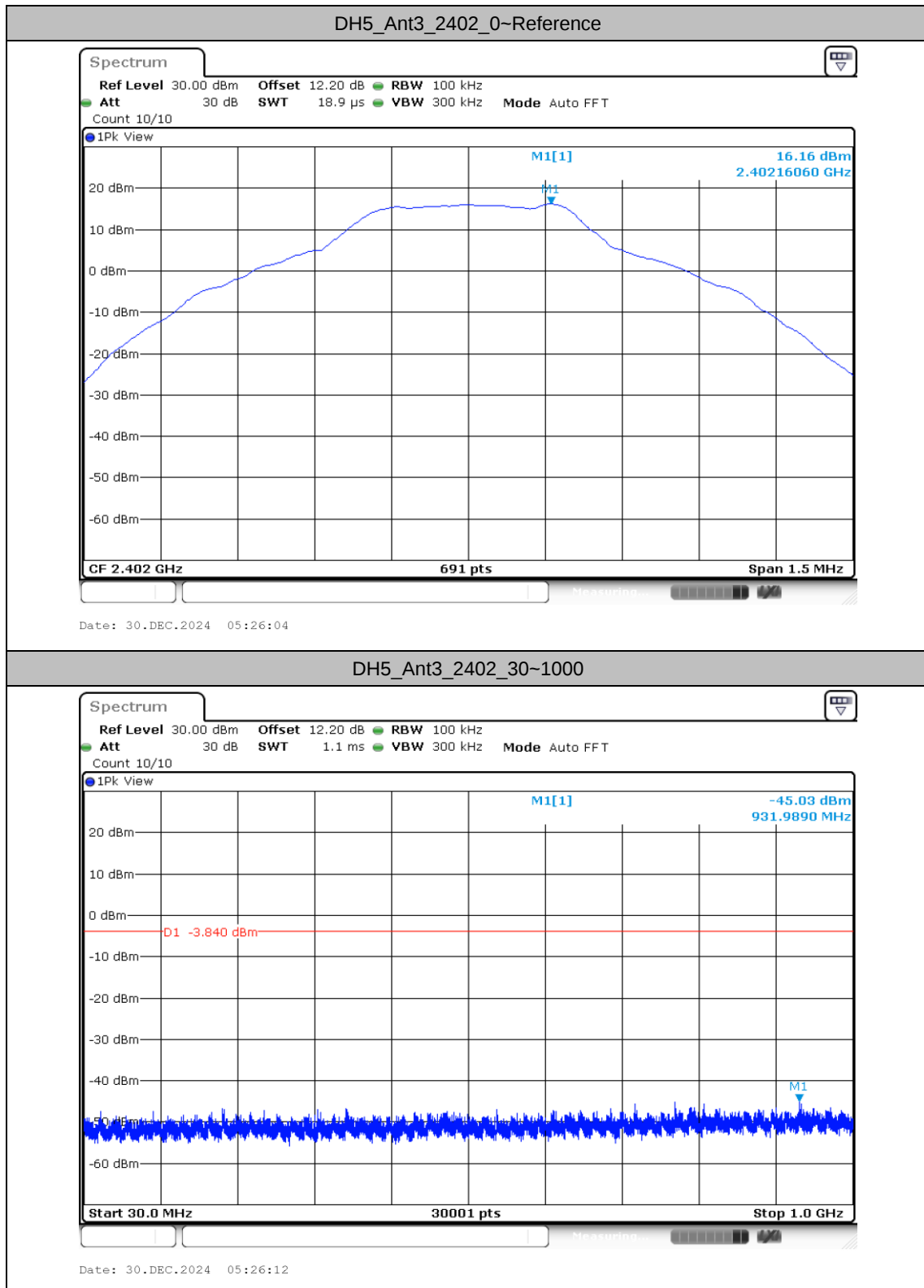
Conducted Spurious Emission

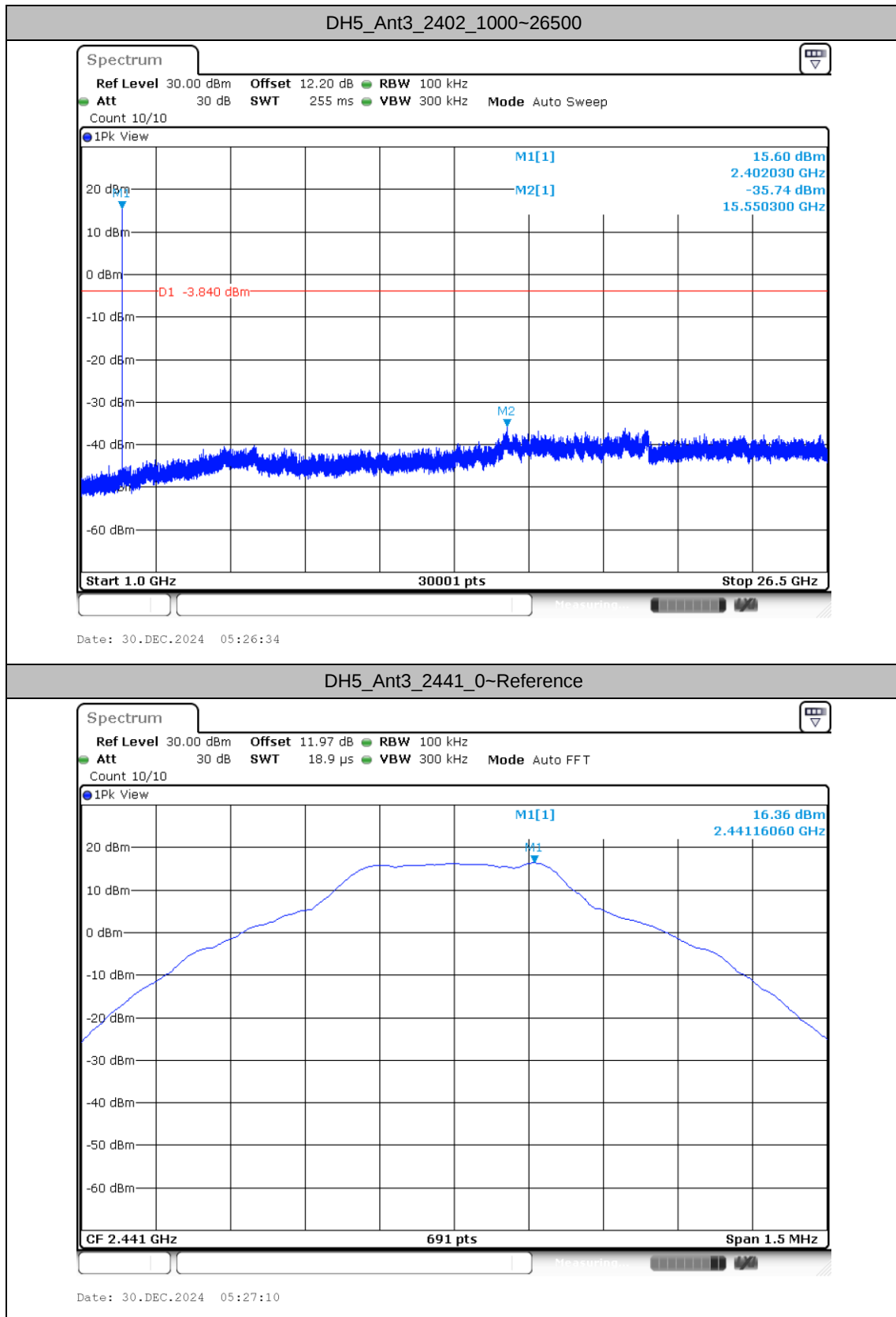
Test Result

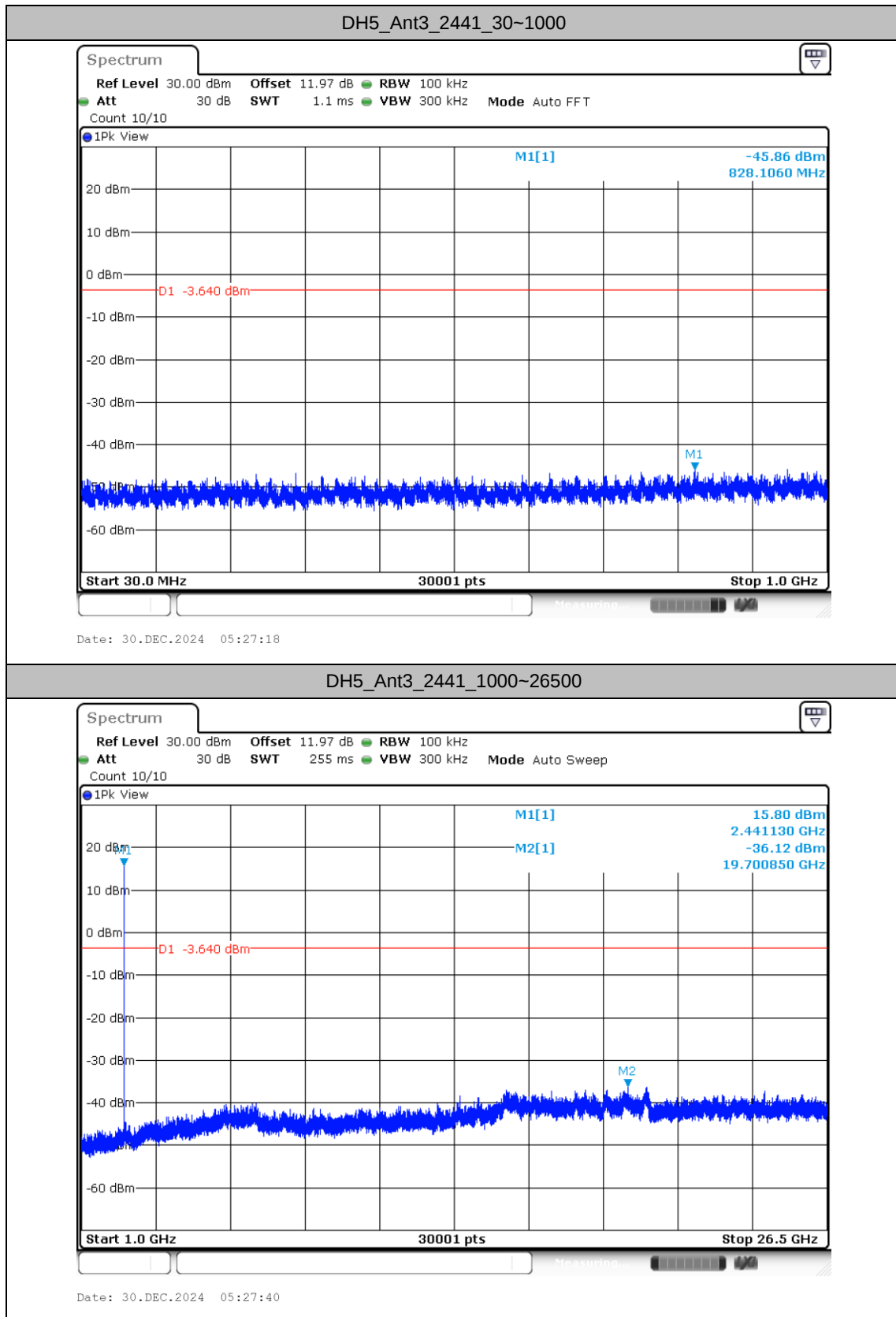
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant3	2402	Reference	16.16	16.16	---	PASS
			30~1000	16.16	-45.03	≤-3.84	PASS
			1000~26500	16.16	-35.74	≤-3.84	PASS
		2441	Reference	16.36	16.36	---	PASS
			30~1000	16.36	-45.86	≤-3.64	PASS
			1000~26500	16.36	-36.12	≤-3.64	PASS
		2480	Reference	14.63	14.63	---	PASS
			30~1000	14.63	-45.74	≤-5.37	PASS
			1000~26500	14.63	-36.29	≤-5.37	PASS
2DH5	Ant3	2402	Reference	16.37	16.37	---	PASS
			30~1000	16.37	-45.69	≤-3.63	PASS
			1000~26500	16.37	-35.27	≤-3.63	PASS
		2441	Reference	16.52	16.52	---	PASS
			30~1000	16.52	-46.08	≤-3.48	PASS
			1000~26500	16.52	-36.45	≤-3.48	PASS
		2480	Reference	14.87	14.87	---	PASS
			30~1000	14.87	-45.24	≤-5.13	PASS
			1000~26500	14.87	-34.96	≤-5.13	PASS
3DH5	Ant3	2402	Reference	16.45	16.45	---	PASS
			30~1000	16.45	-45.46	≤-3.55	PASS
			1000~26500	16.45	-34.99	≤-3.55	PASS
		2441	Reference	16.63	16.63	---	PASS
			30~1000	16.63	-44.77	≤-3.37	PASS
			1000~26500	16.63	-35.46	≤-3.37	PASS
		2480	Reference	14.80	14.80	---	PASS
			30~1000	14.80	-45.37	≤-5.2	PASS
			1000~26500	14.80	-36.76	≤-5.2	PASS

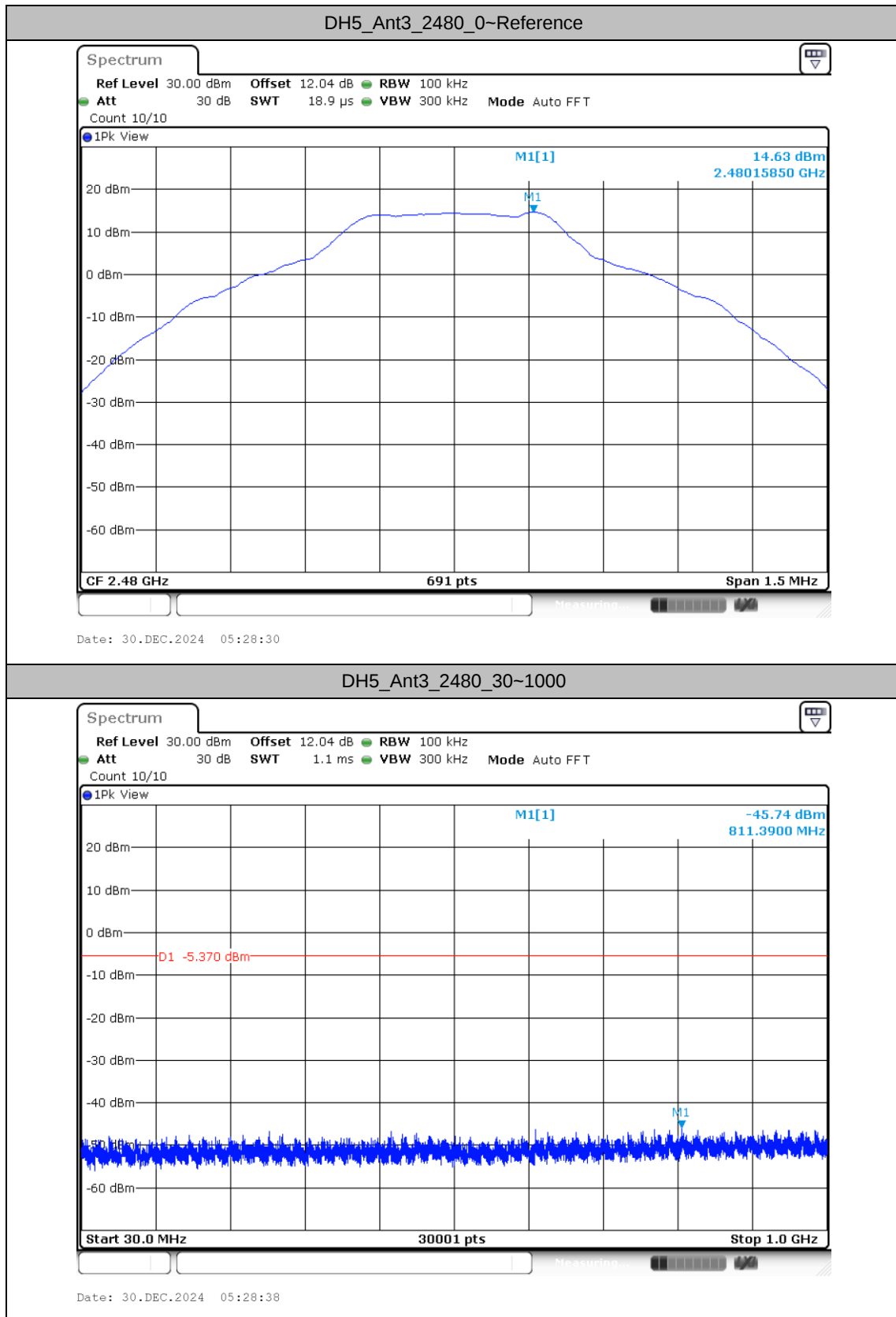


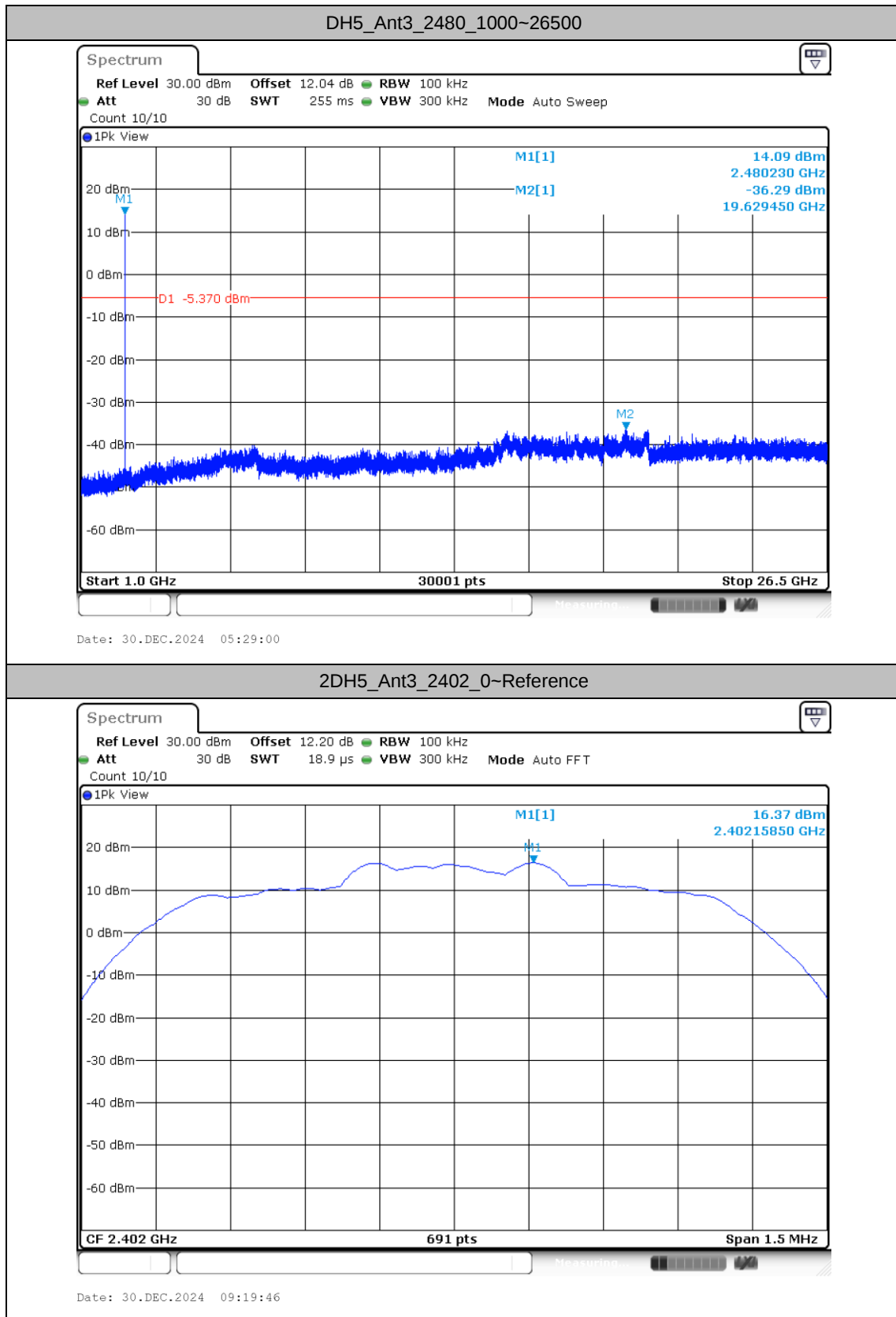
Test Graphs

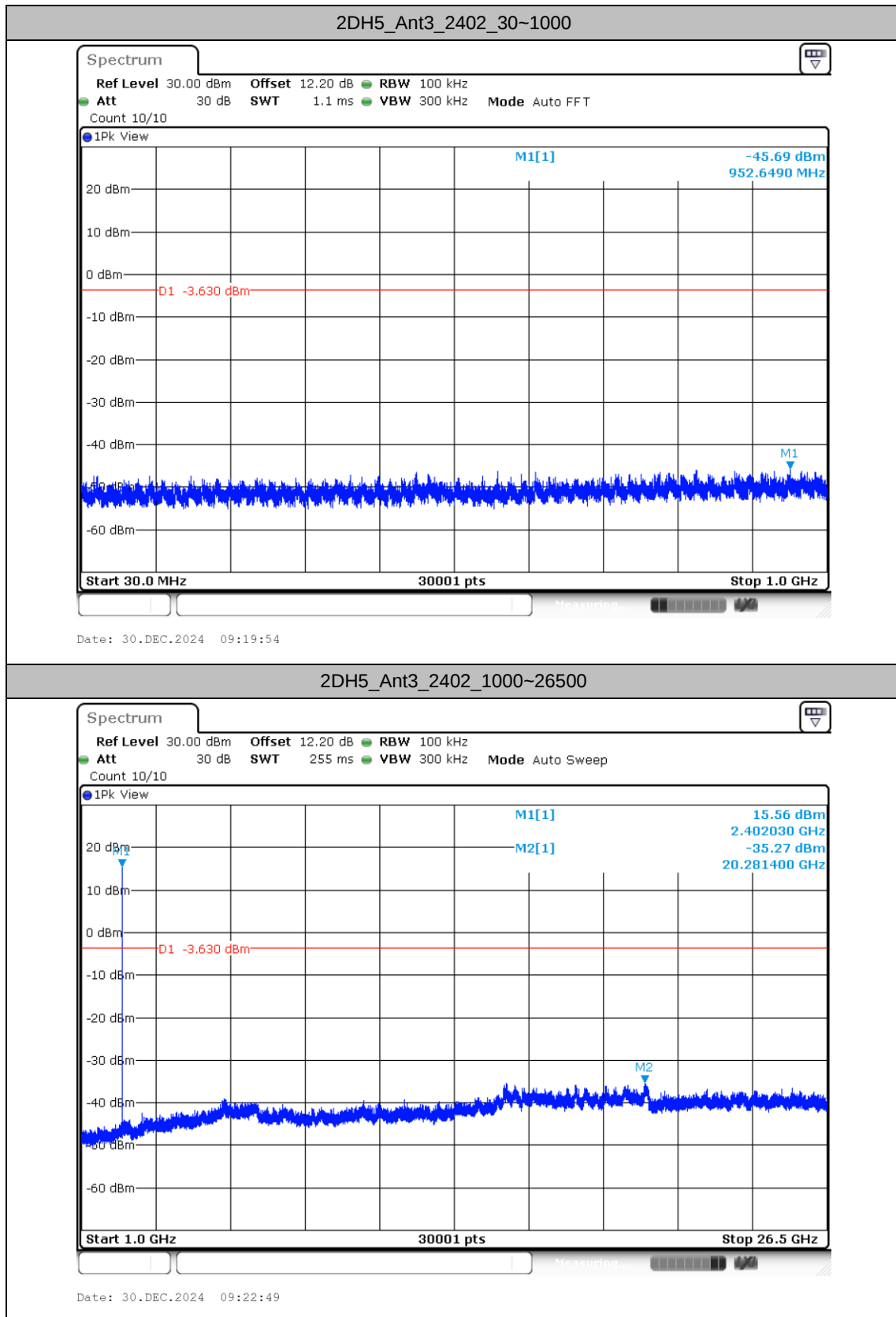


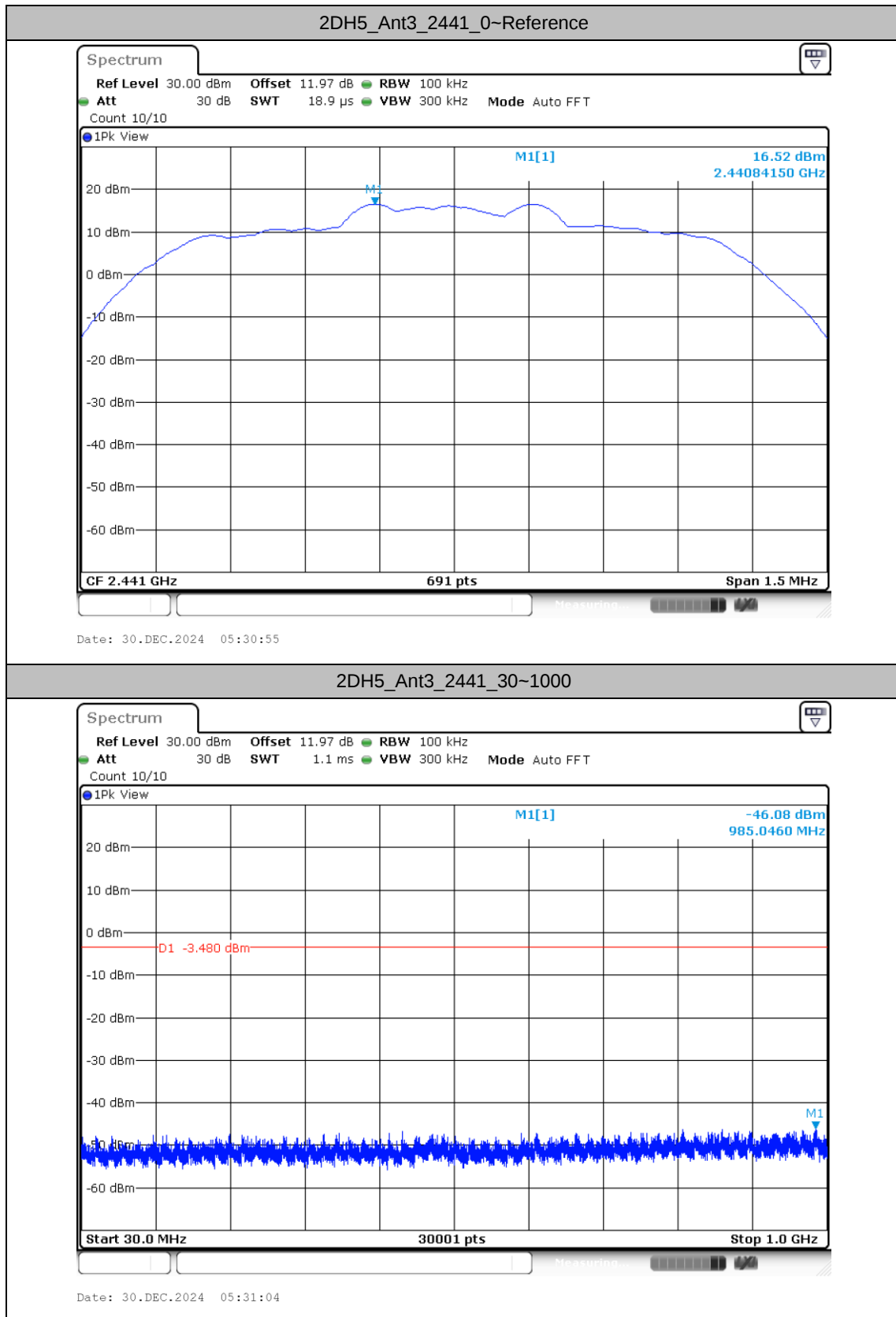


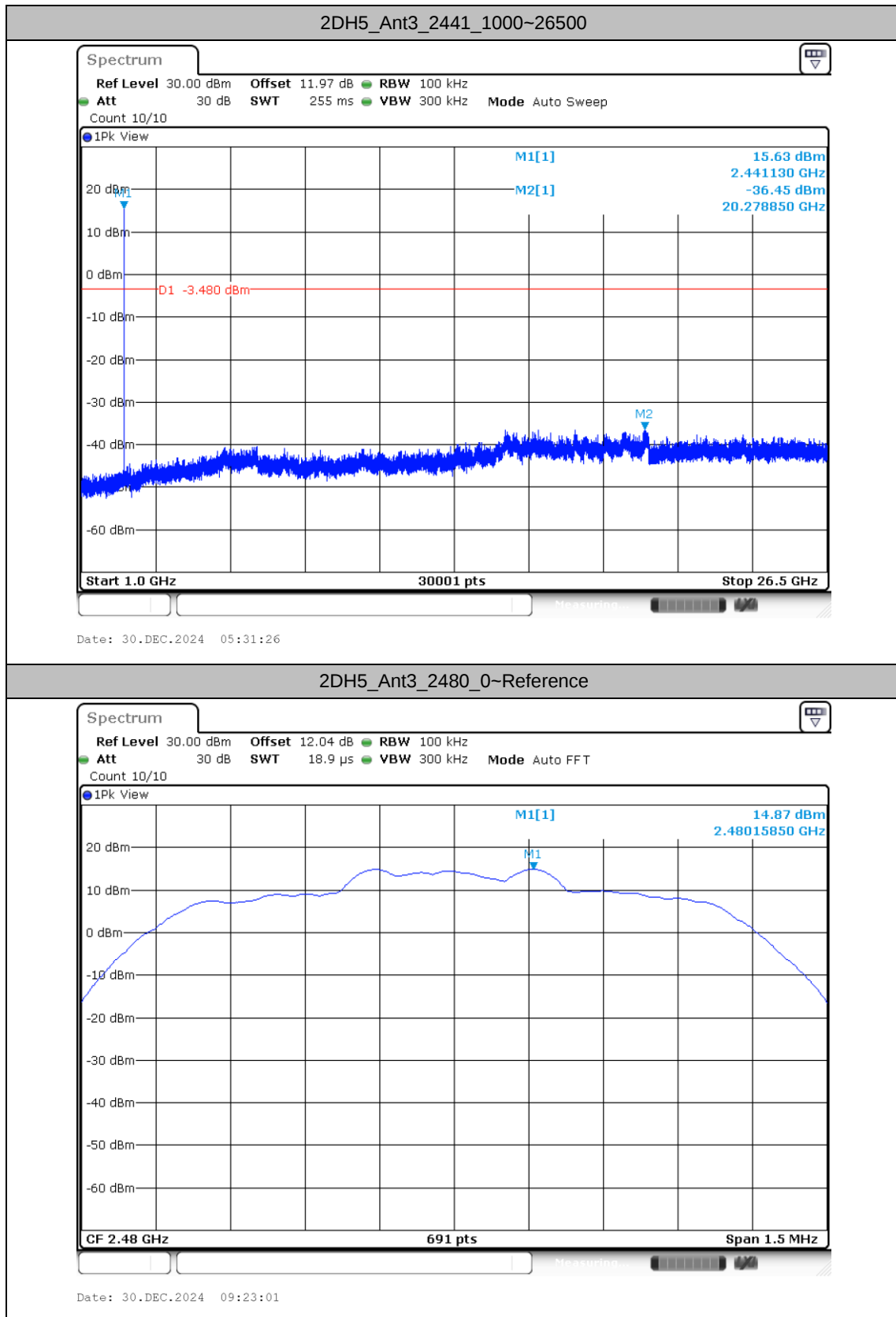


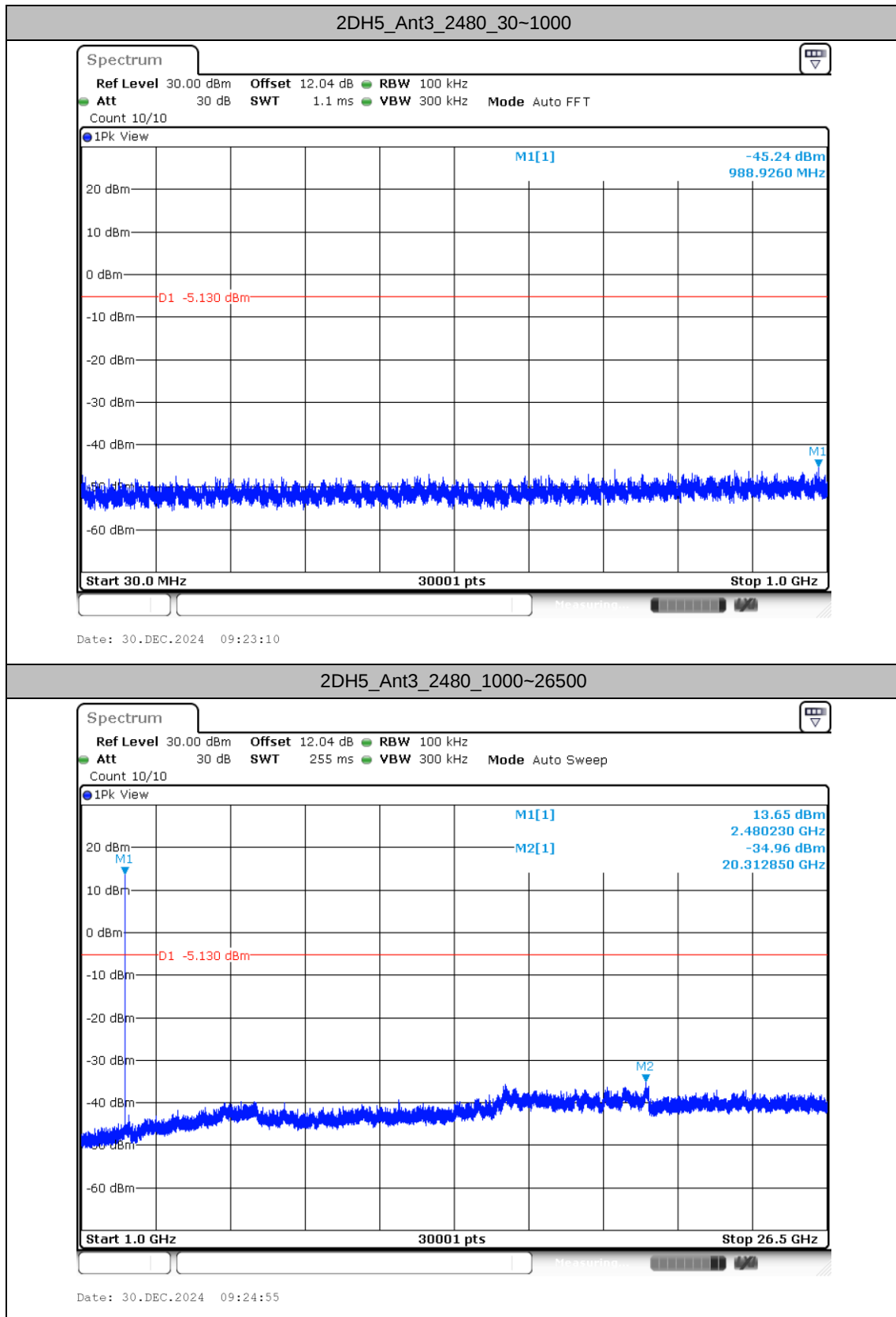


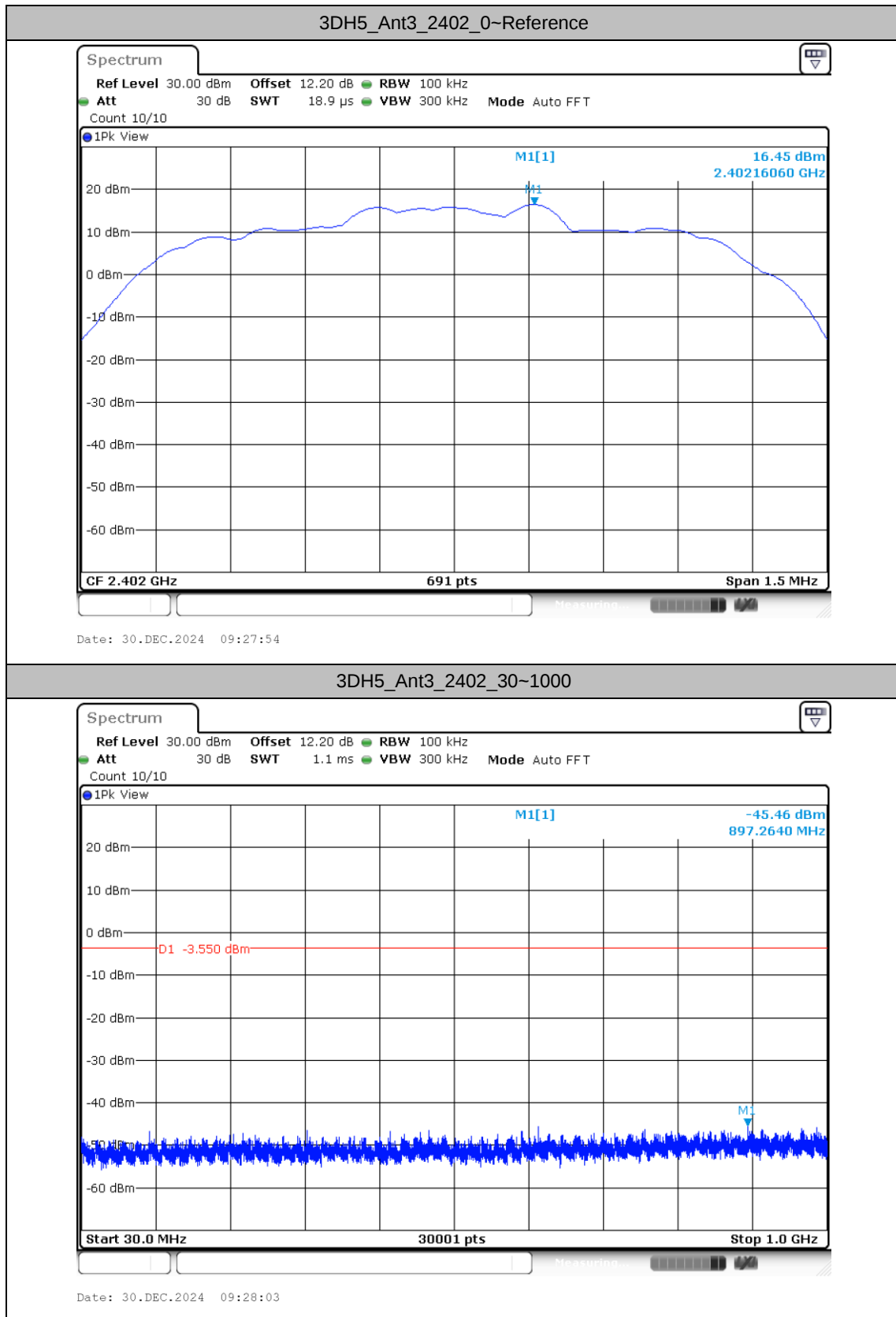


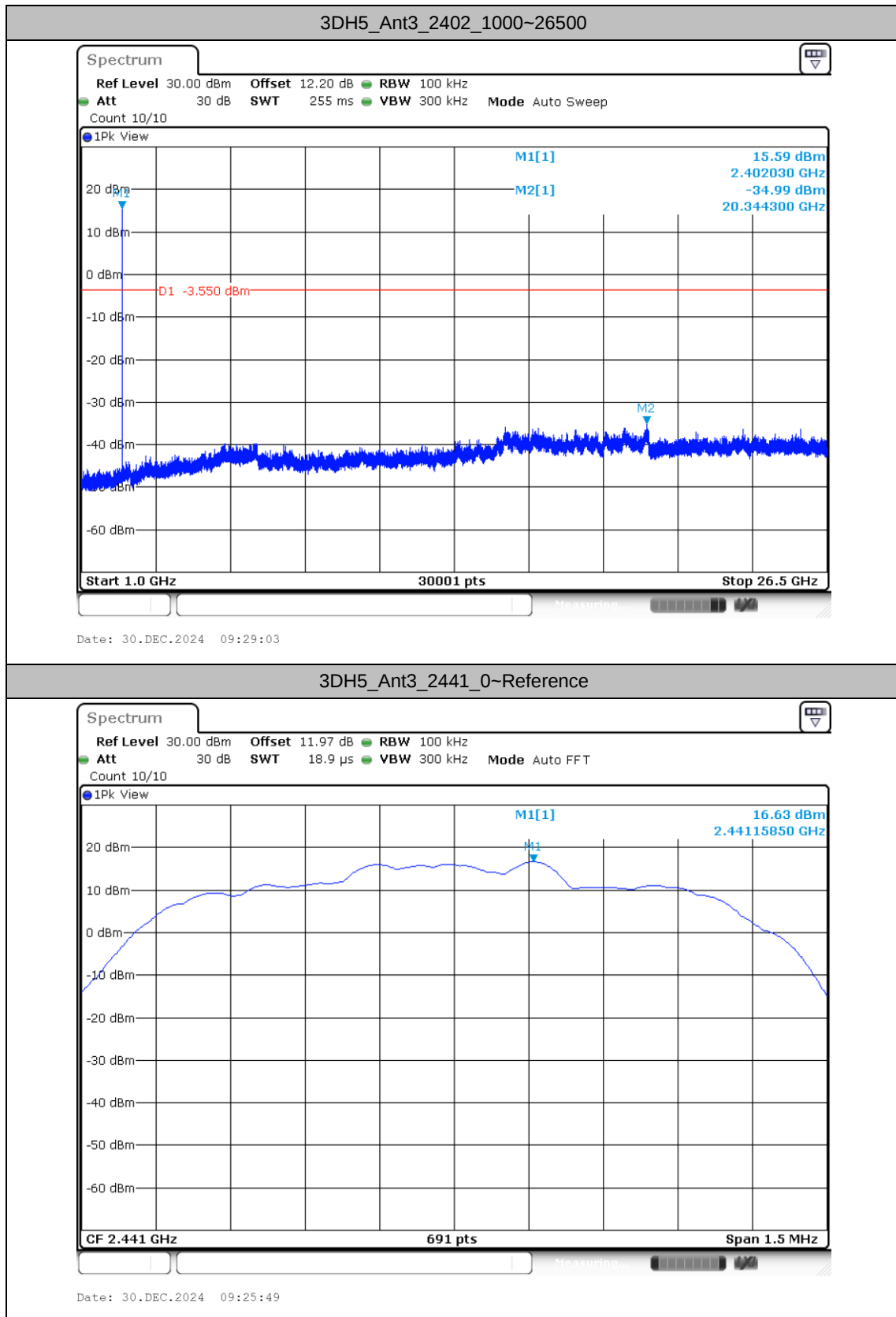


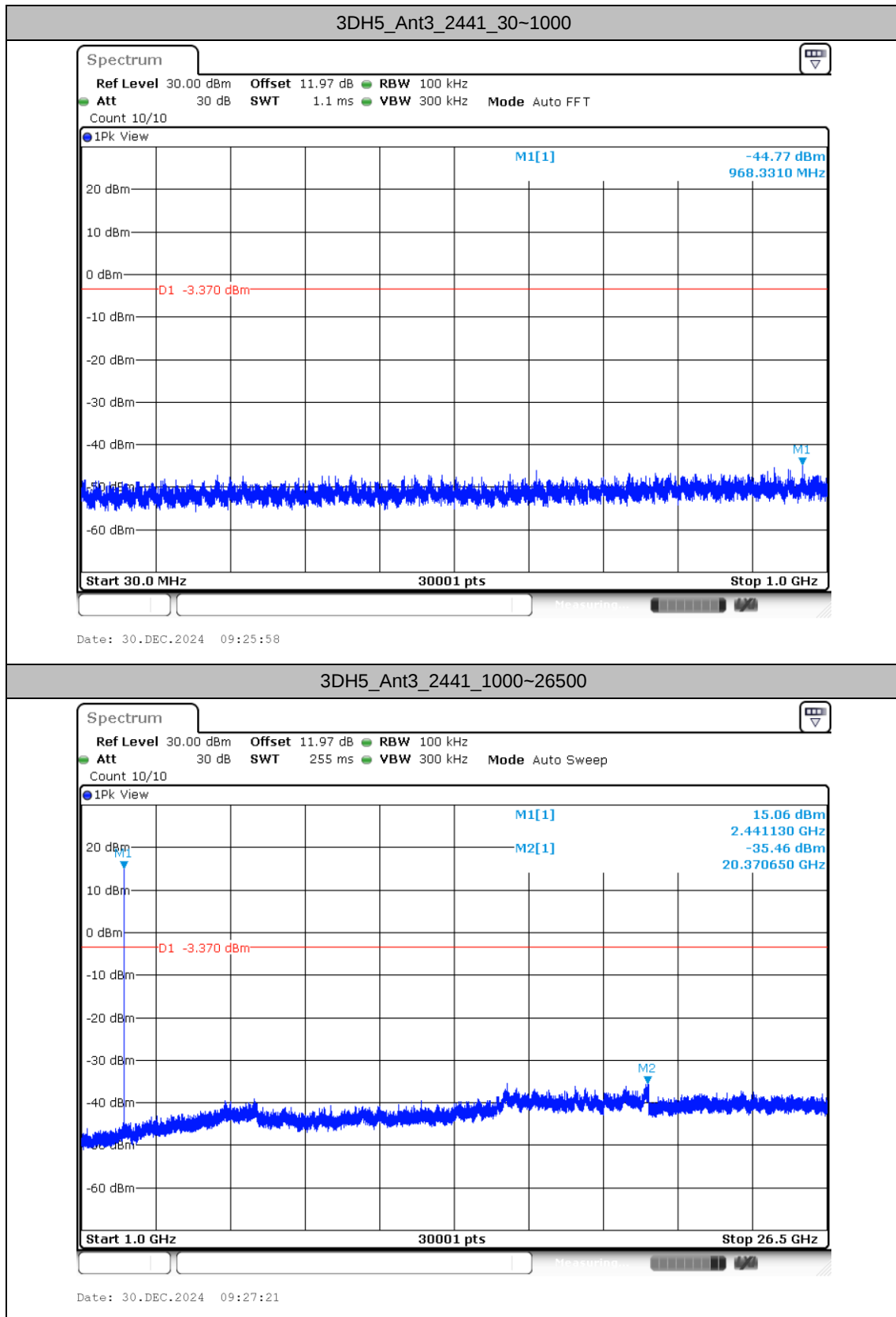


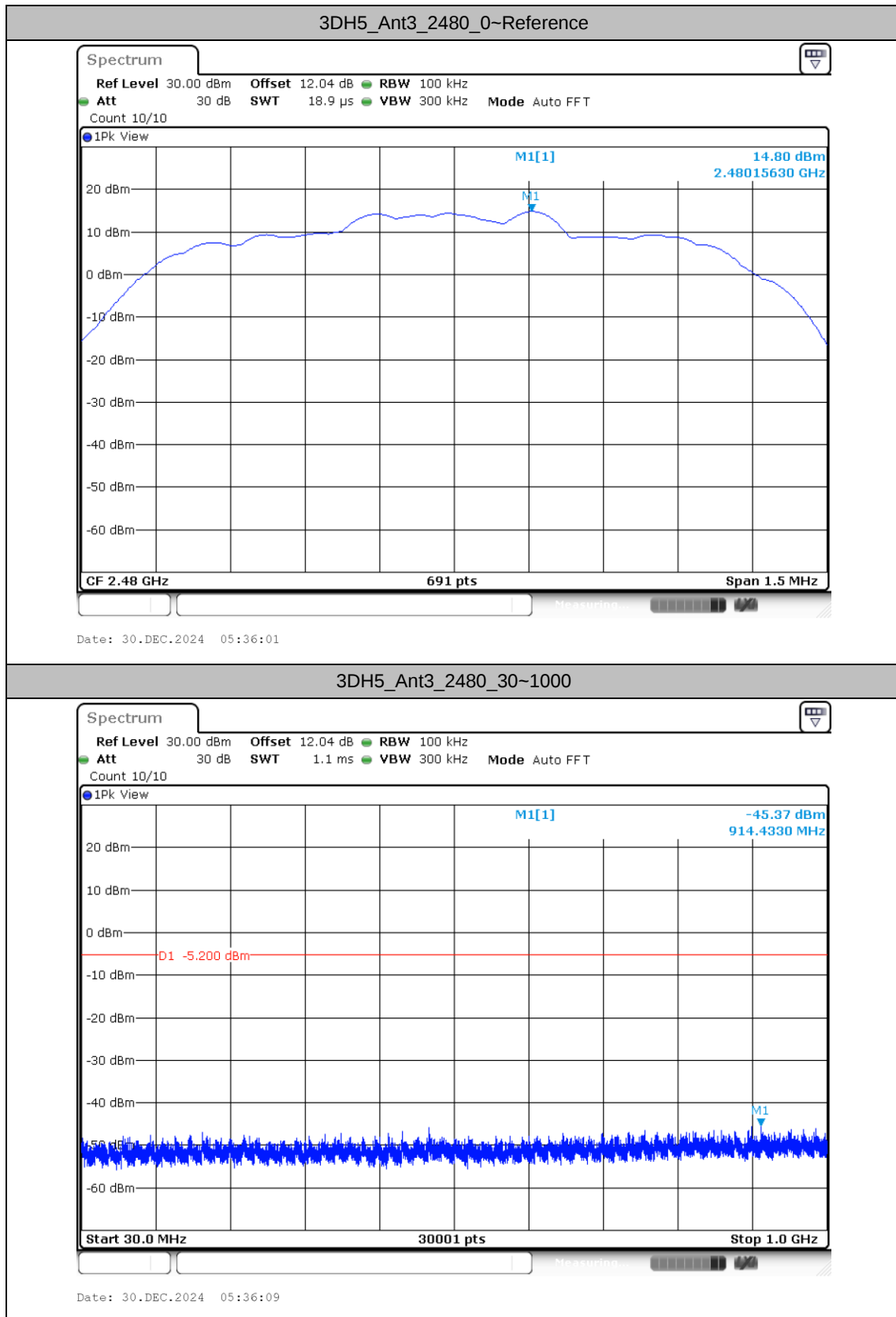


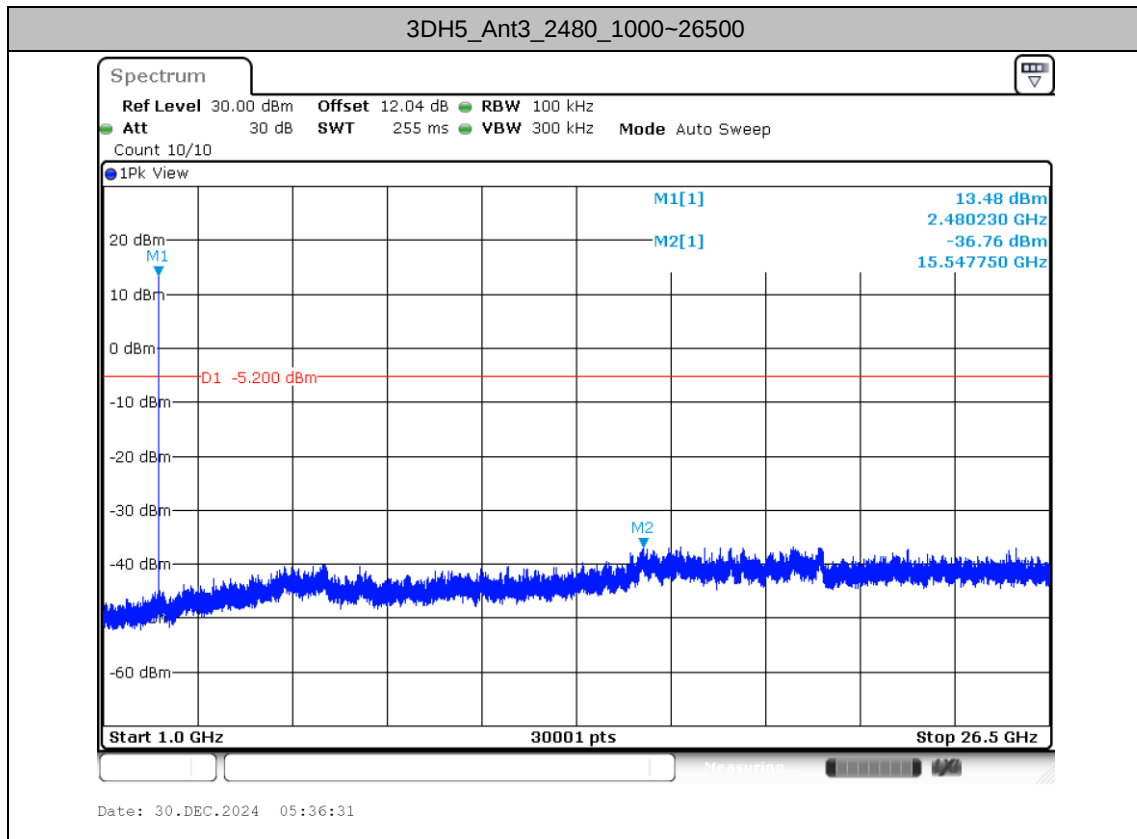






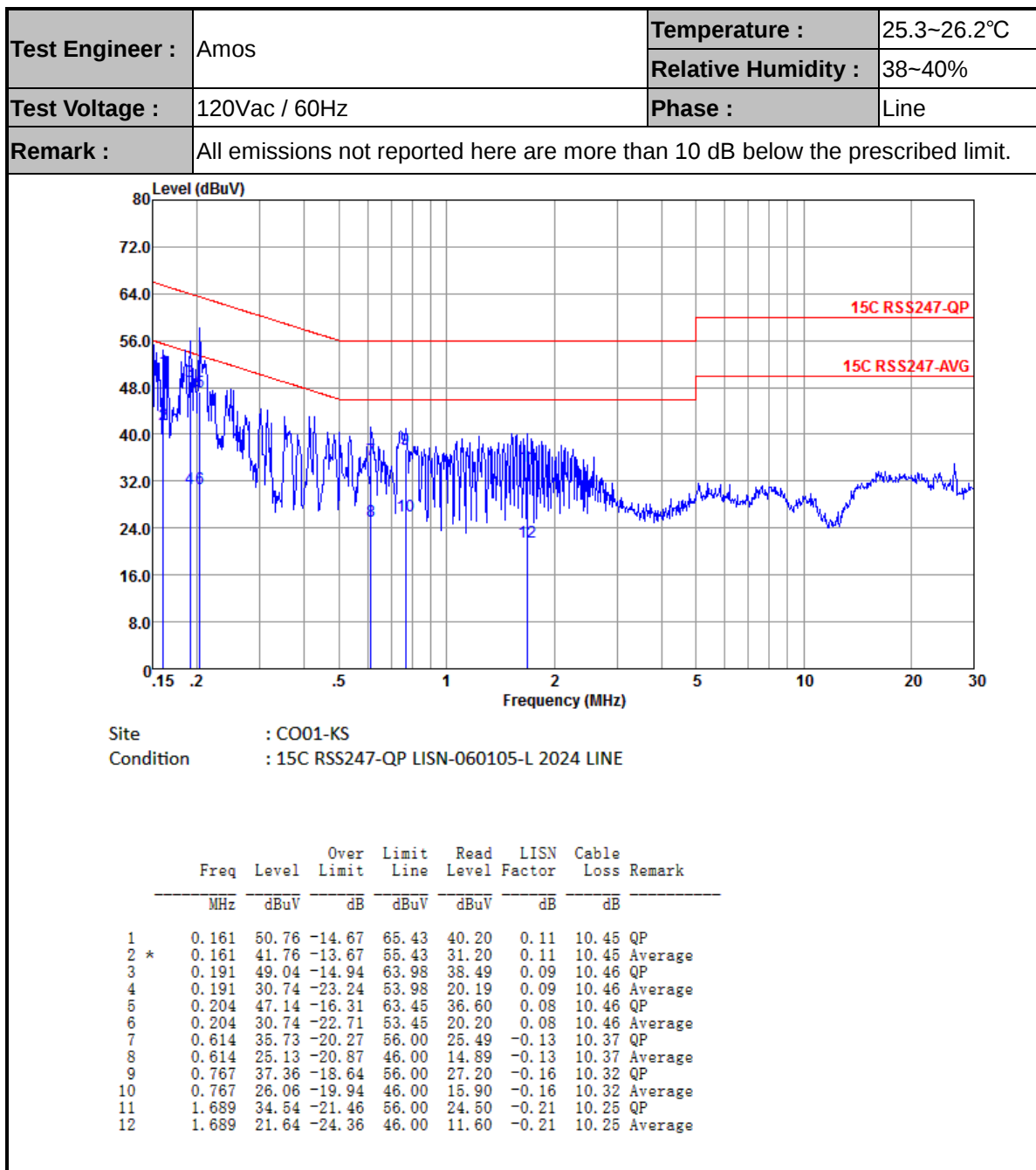






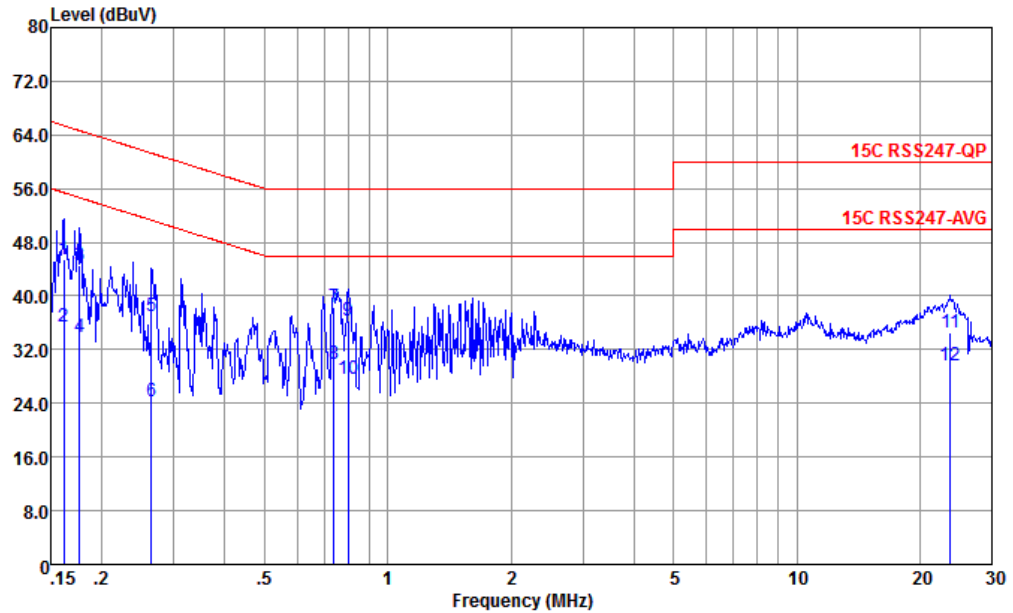


Appendix B. AC Conducted Emission Test Results





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-N 2024 NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.162	45.38	-20.00	65.38	34.81	0.12	10.45	QP
2	0.162	35.48	-19.90	55.38	24.91	0.12	10.45	Average
3	0.177	44.48	-20.16	64.64	33.89	0.13	10.46	QP
4	0.177	33.78	-20.86	54.64	23.19	0.13	10.46	Average
5	0.264	36.93	-24.36	61.29	26.51	-0.05	10.47	QP
6	0.264	24.33	-26.96	51.29	13.91	-0.05	10.47	Average
7	0.739	38.36	-17.64	56.00	28.20	-0.17	10.33	QP
8 *	0.739	29.76	-16.24	46.00	19.60	-0.17	10.33	Average
9	0.800	36.34	-19.66	56.00	26.20	-0.17	10.31	QP
10	0.800	27.64	-18.36	46.00	17.50	-0.17	10.31	Average
11	23.762	34.55	-25.45	60.00	24.60	-0.47	10.42	QP
12	23.762	29.55	-20.45	50.00	19.60	-0.47	10.42	Average

Note:

1. $\text{Level(dB}\mu\text{V)} = \text{Read Level(dB}\mu\text{V)} + \text{LISN Factor(dB)} + \text{Cable Loss(dB)}$
2. $\text{Over Limit(dB)} = \text{Level(dB}\mu\text{V)} - \text{Limit Line(dB}\mu\text{V)}$



Appendix C Radiated Spurious Emission Test Data

Test Engineer :	Koi Ji	Relative Humidity :	51~53%
		Temperature :	21.2~22.5°C

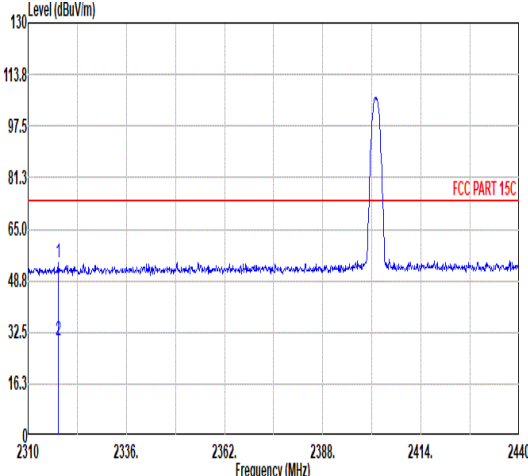
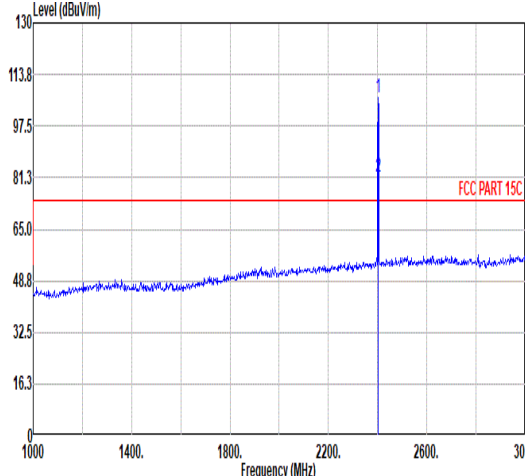
Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	3	Bluetooth BR_GFSK	00	2402	1Mbps	-	-
Mode 2	2400-2483.5	3	Bluetooth BR_GFSK	39	2441	1Mbps	-	-
Mode 3	2400-2483.5	3	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	2372.14	54.74	74.00	-19.26	V	PEAK	Pass	Band Edge
1	Bluetooth BR_GFSK	00	4804.00	50.53	74.00	-23.47	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth BR_GFSK	39	4882.00	53.78	74.00	-20.22	V	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2491.33	55.22	74.00	-18.78	H	PEAK	Pass	Band Edge
3	Bluetooth BR_GFSK	78	4960.00	52.09	74.00	-21.91	V	PEAK	Pass	Harmonic



Mode	1																																																																																																			
	Band Edge																																																																																																			
	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																																																			
ANT	3																																																																																																			
Pol.	Horizontal					Fundamental																																																																																														
Peak																																																																																																				
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	2400-2483.5_Bluetooth BR_GFSK_CH00_2402MHz																																																																					
ANT	3																																																																					
Pol.	Vertical																																																																					
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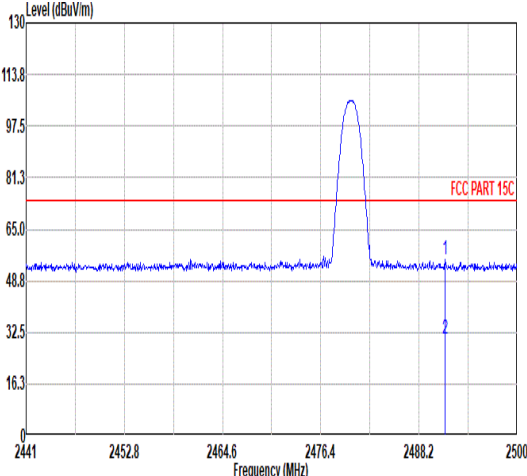
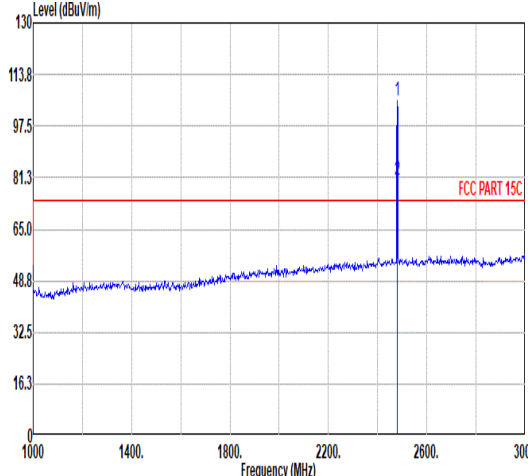


Mode	1																																																																																																															
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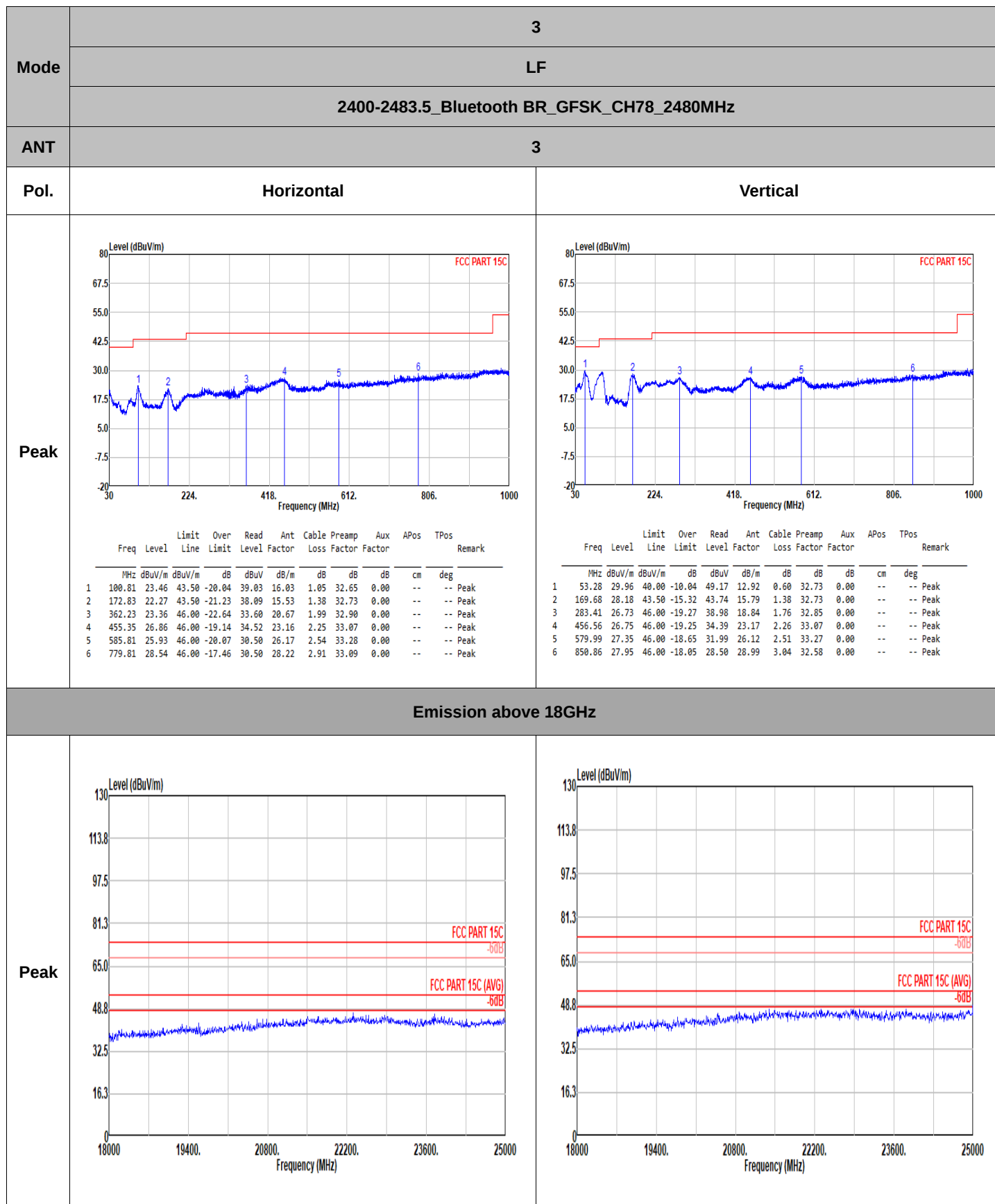
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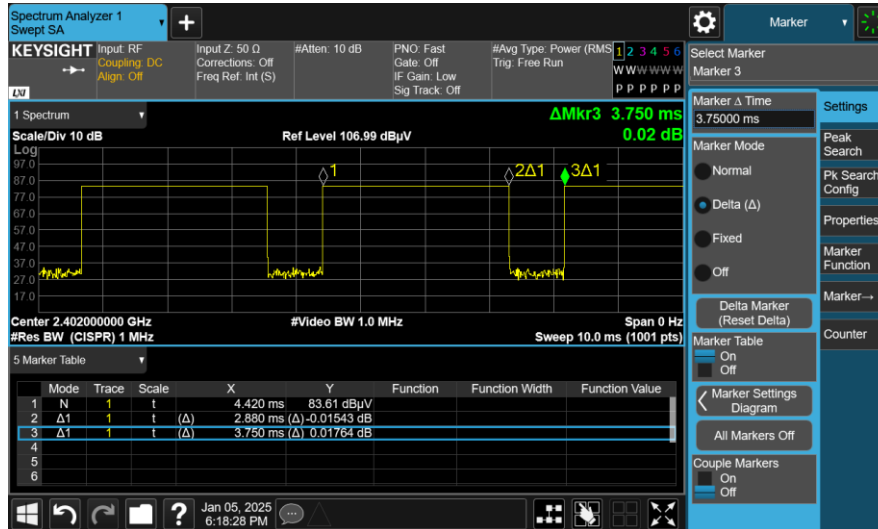


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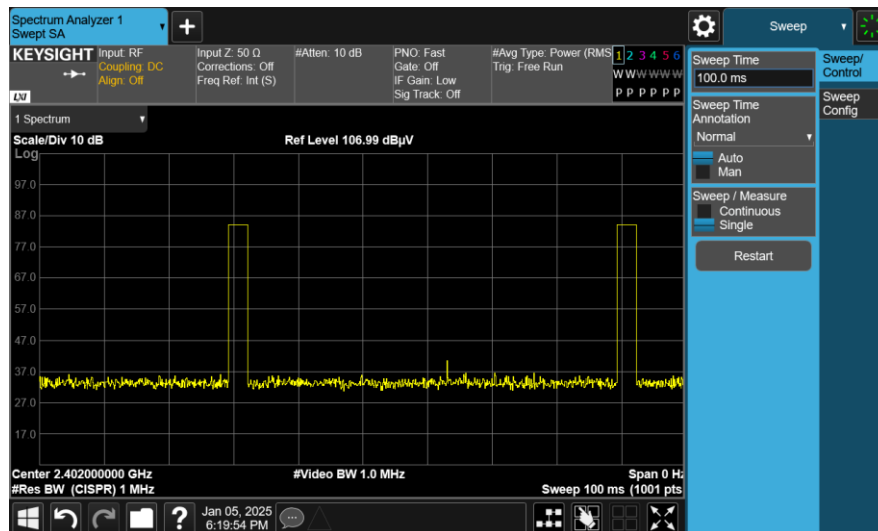


Appendix D. Duty Cycle Plots

DH5 on time (One Pulse) Plot on Channel 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.