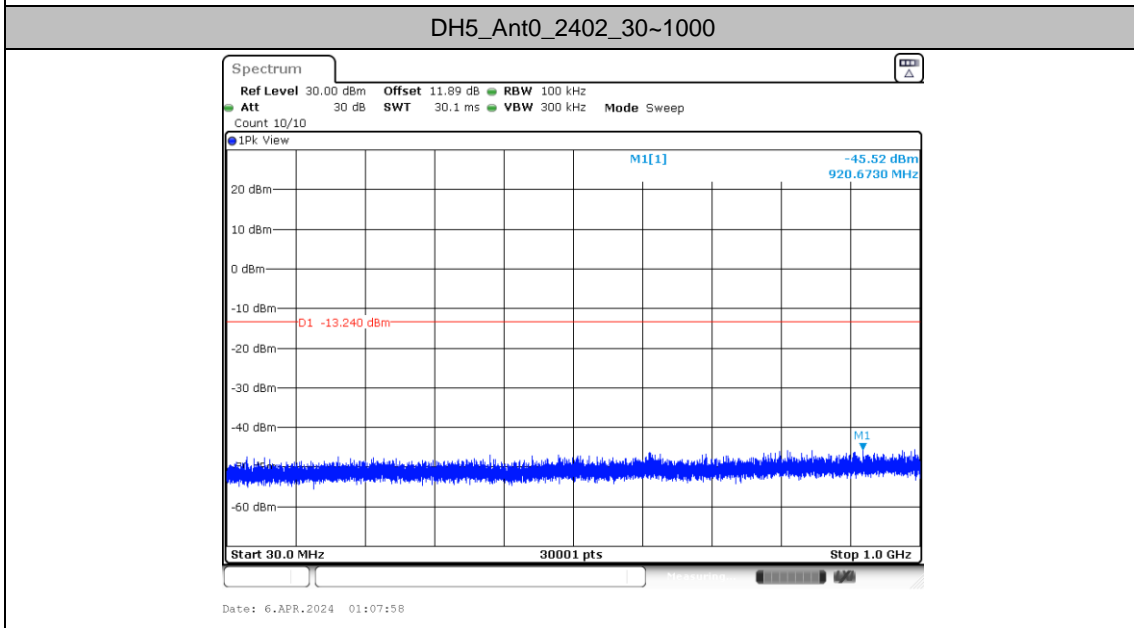
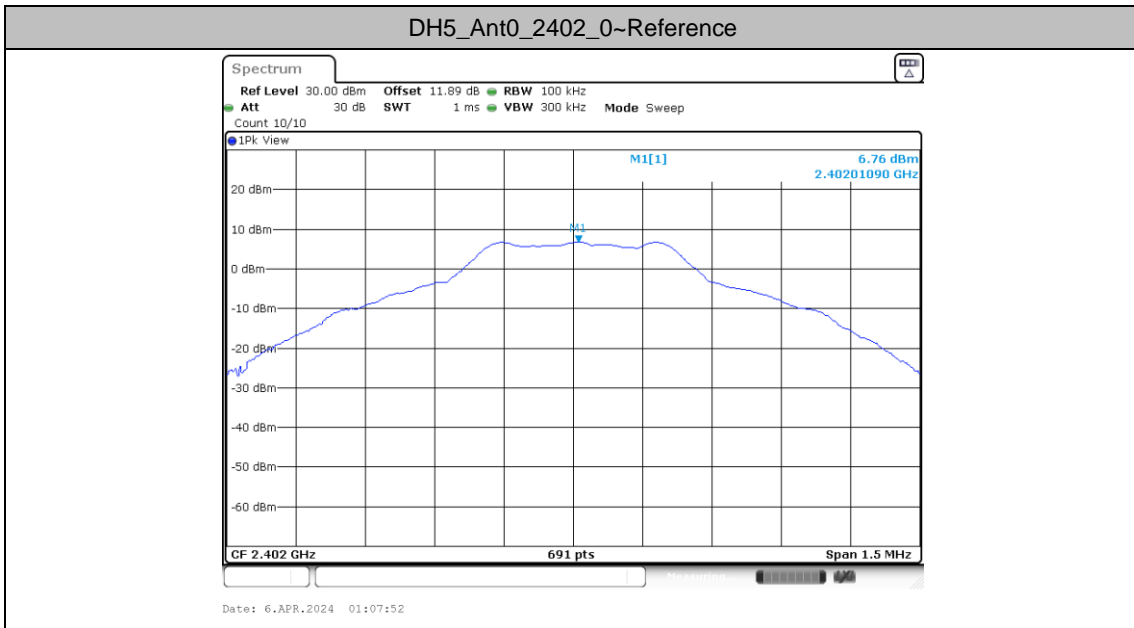


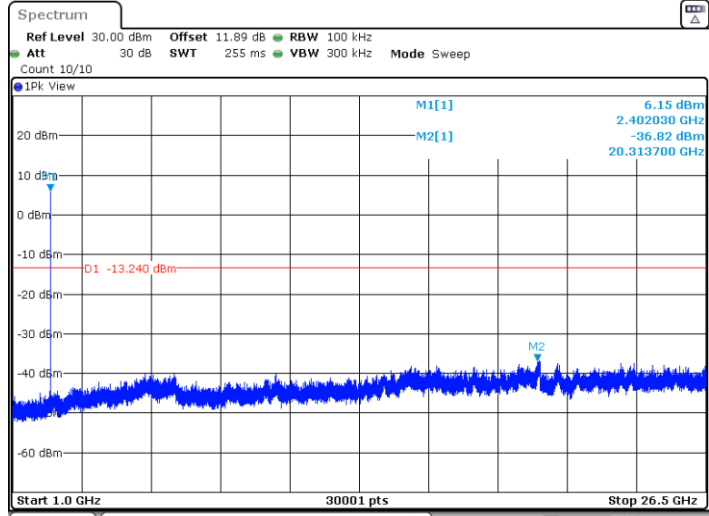


Test Graphs



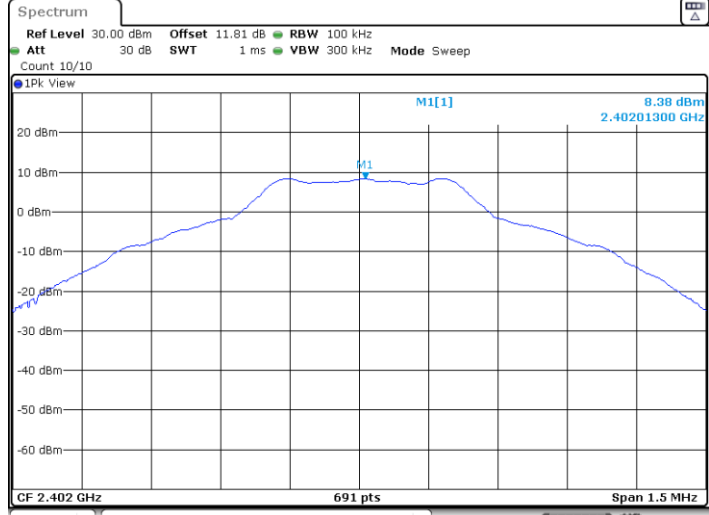


DH5_Ant0_2402_1000~26500



Date: 6.APR.2024 01:08:13

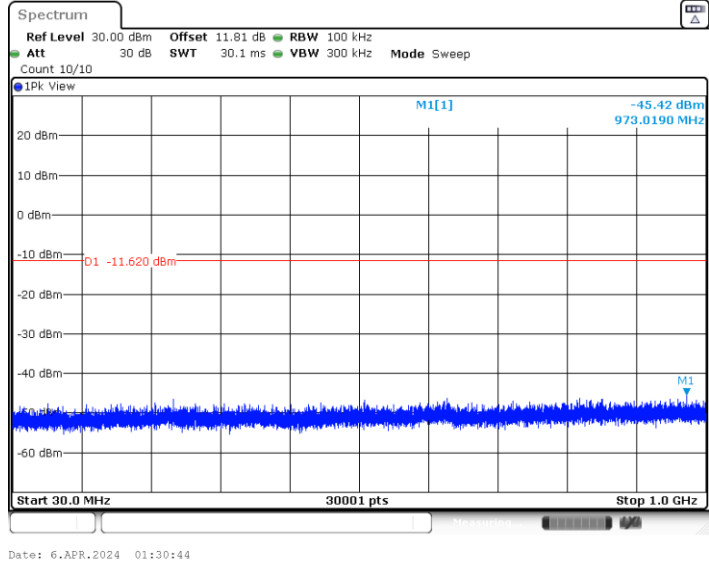
DH5_Ant1_2402_0~Reference



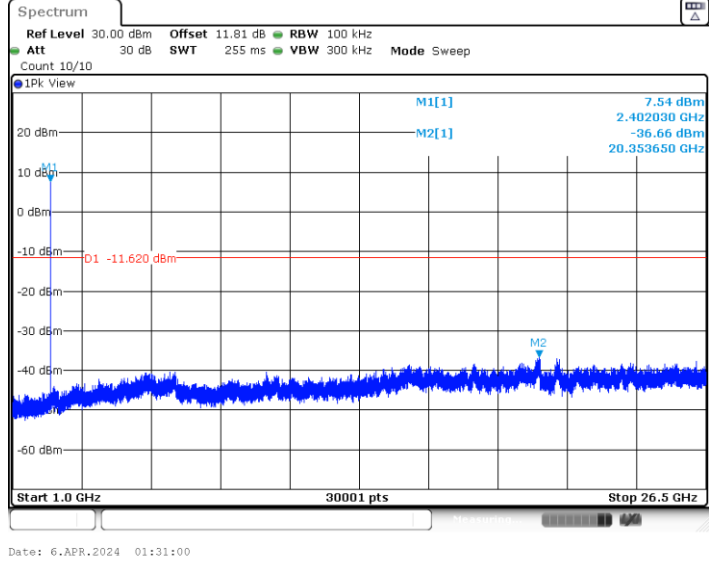
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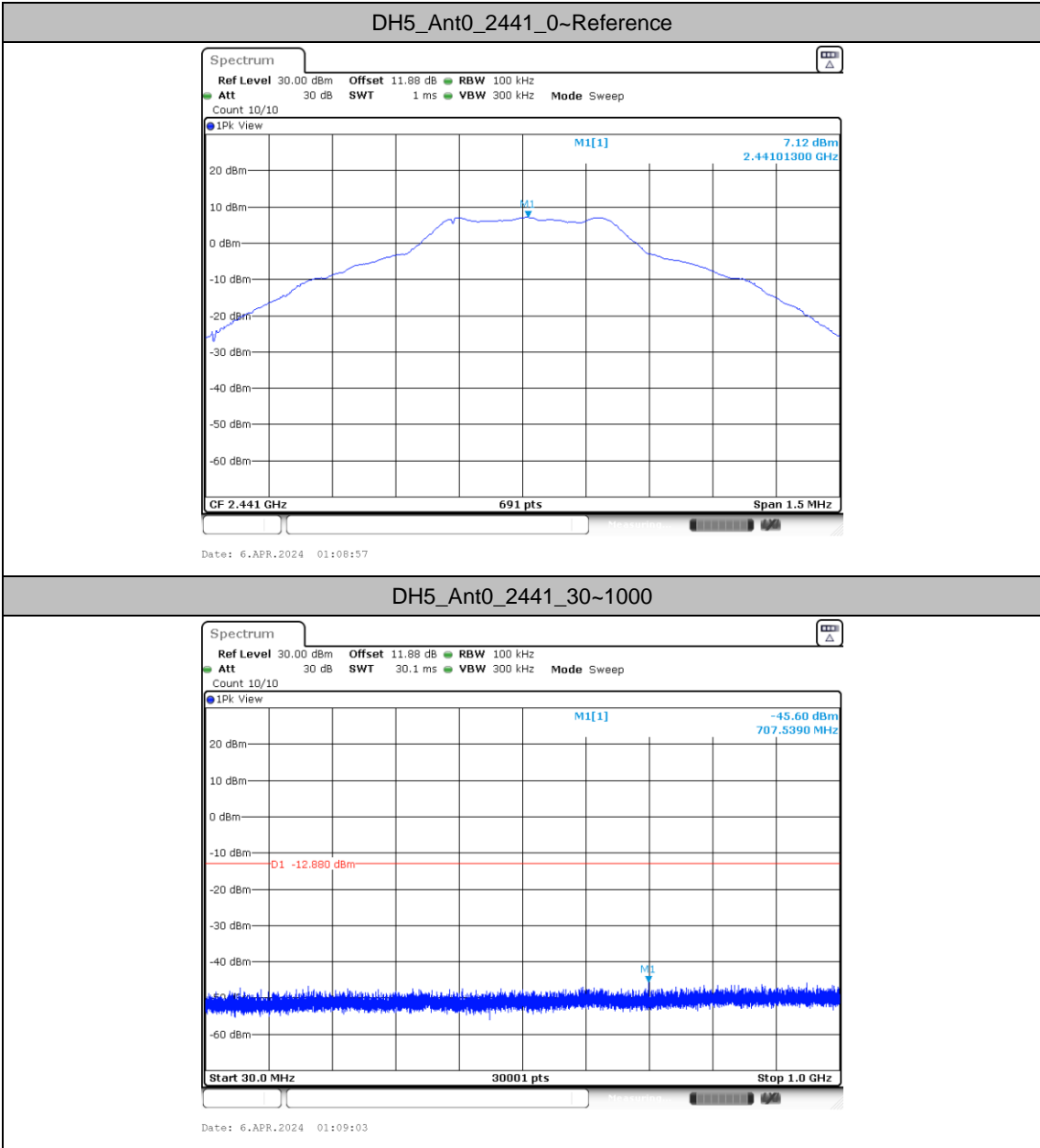


DH5_Ant1_2402_30~1000



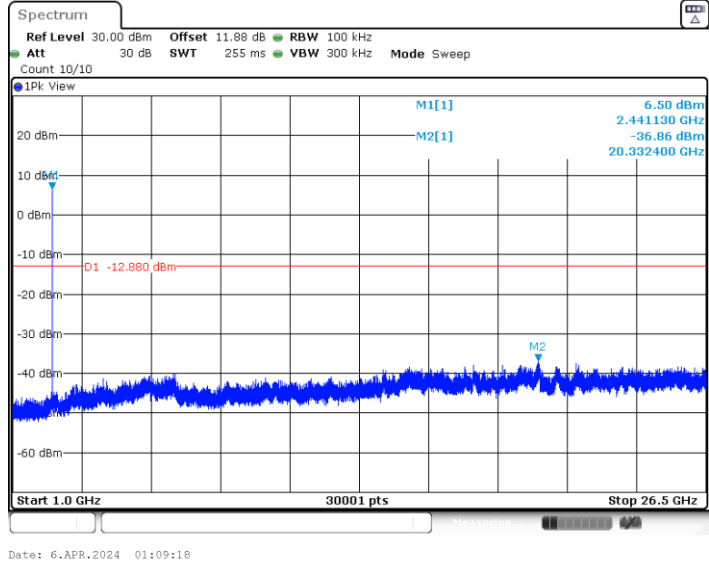
DH5_Ant1_2402_1000~26500



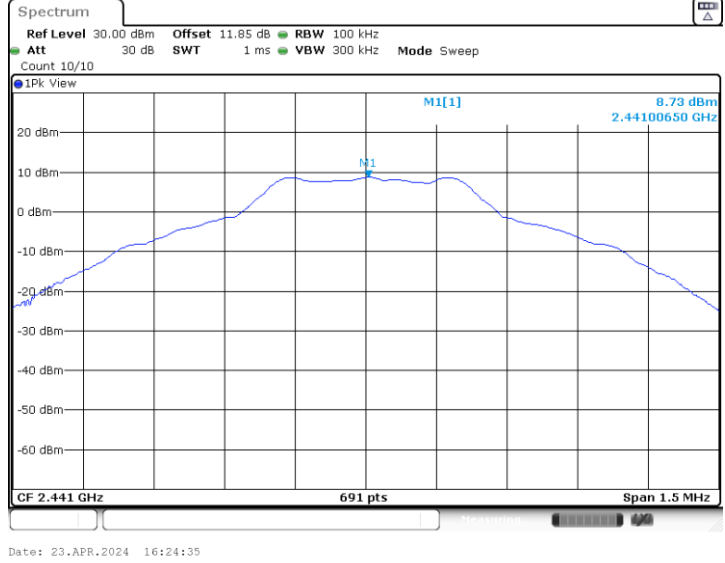




DH5_Ant0_2441_1000~26500

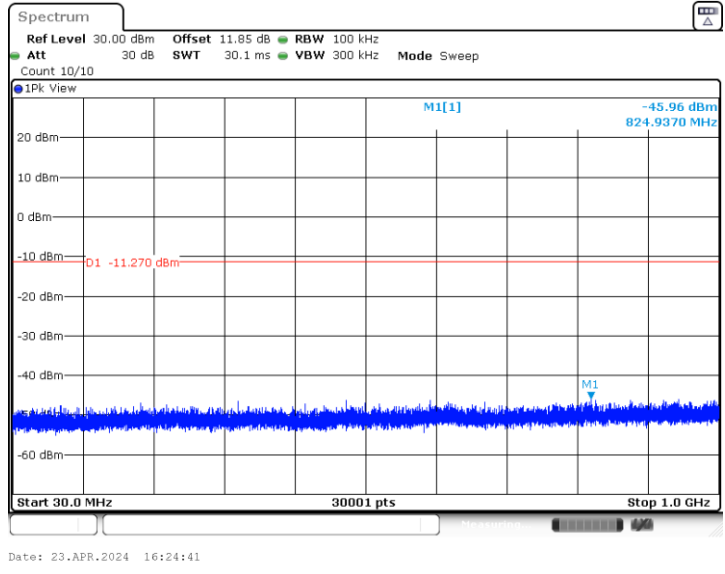


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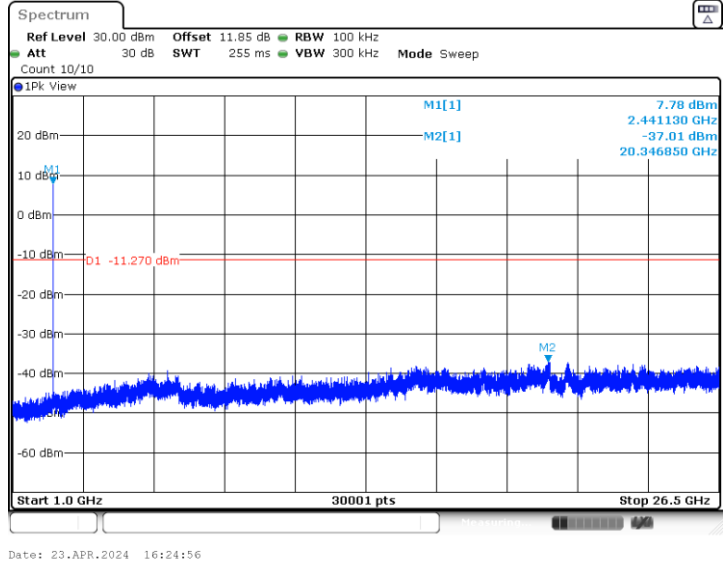


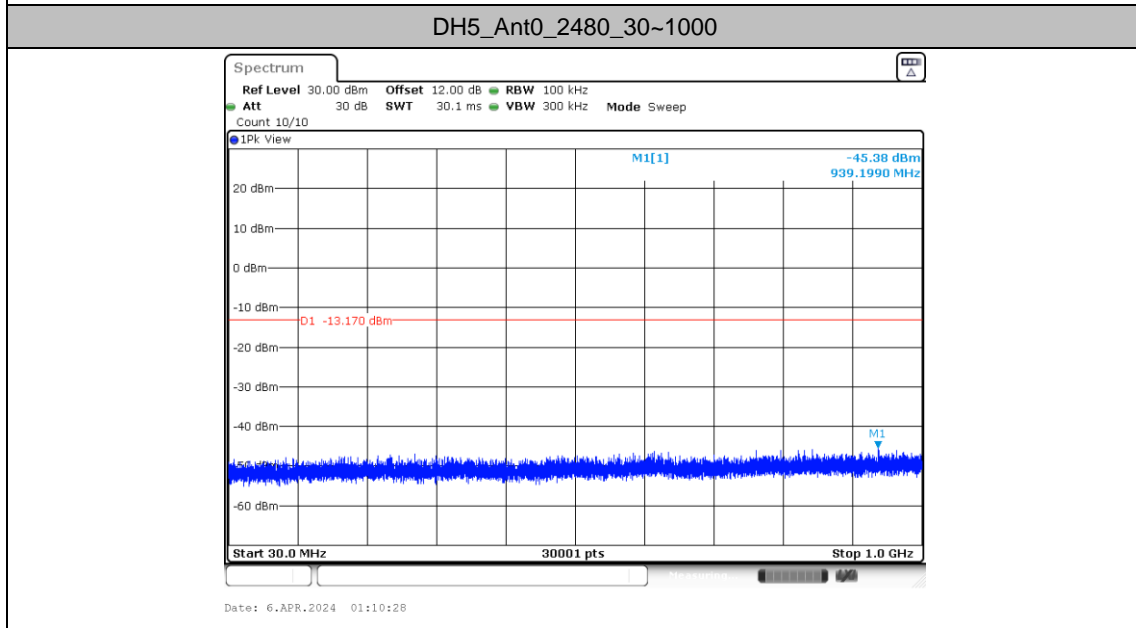
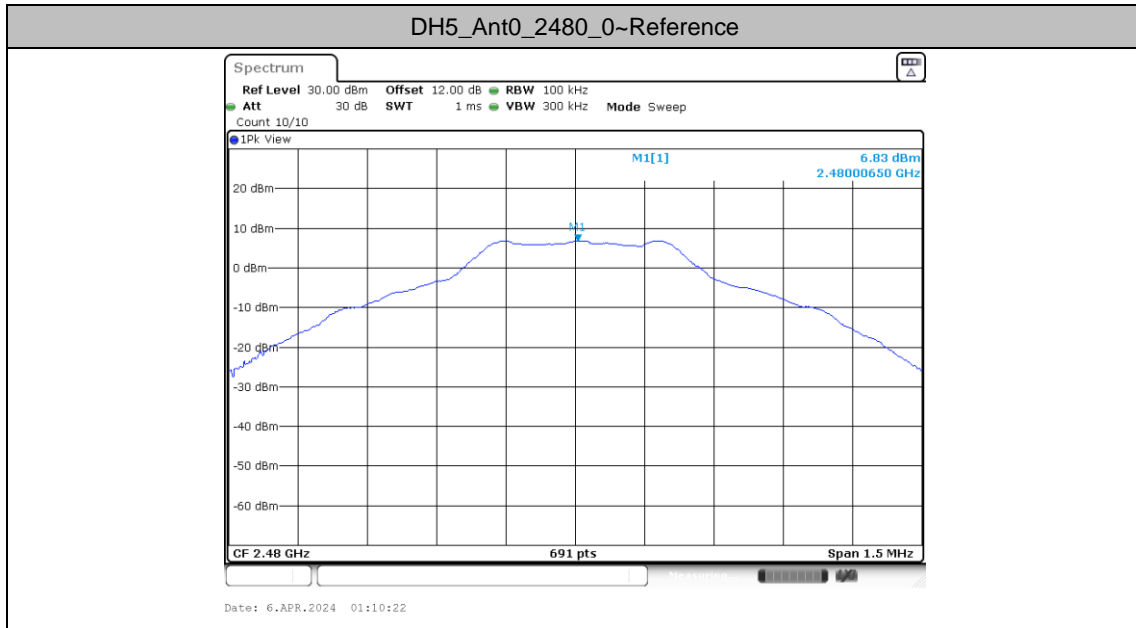


DH5_Ant1_2441_30~1000



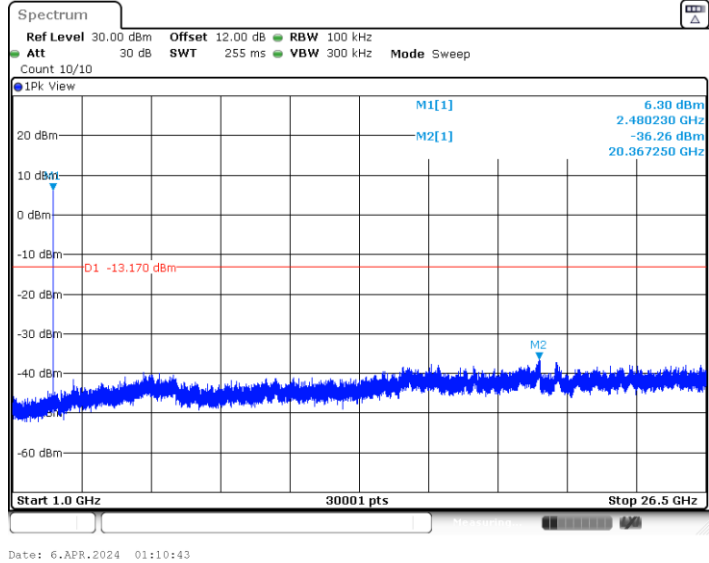
DH5_Ant1_2441_1000~26500



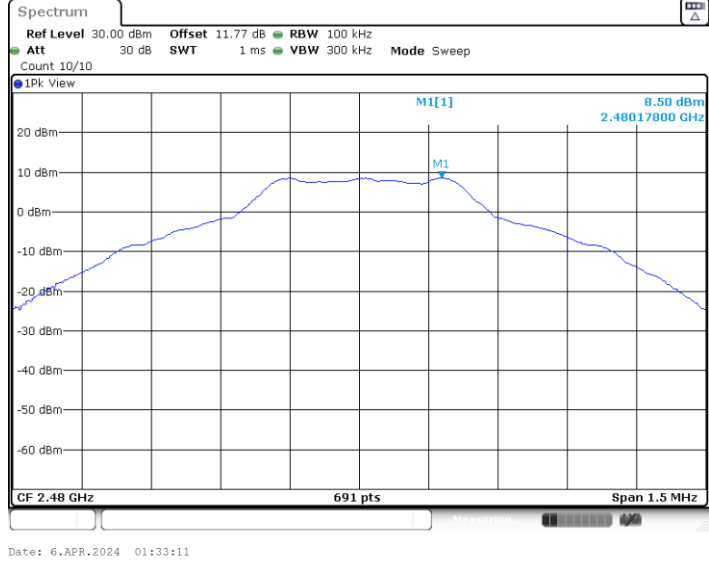


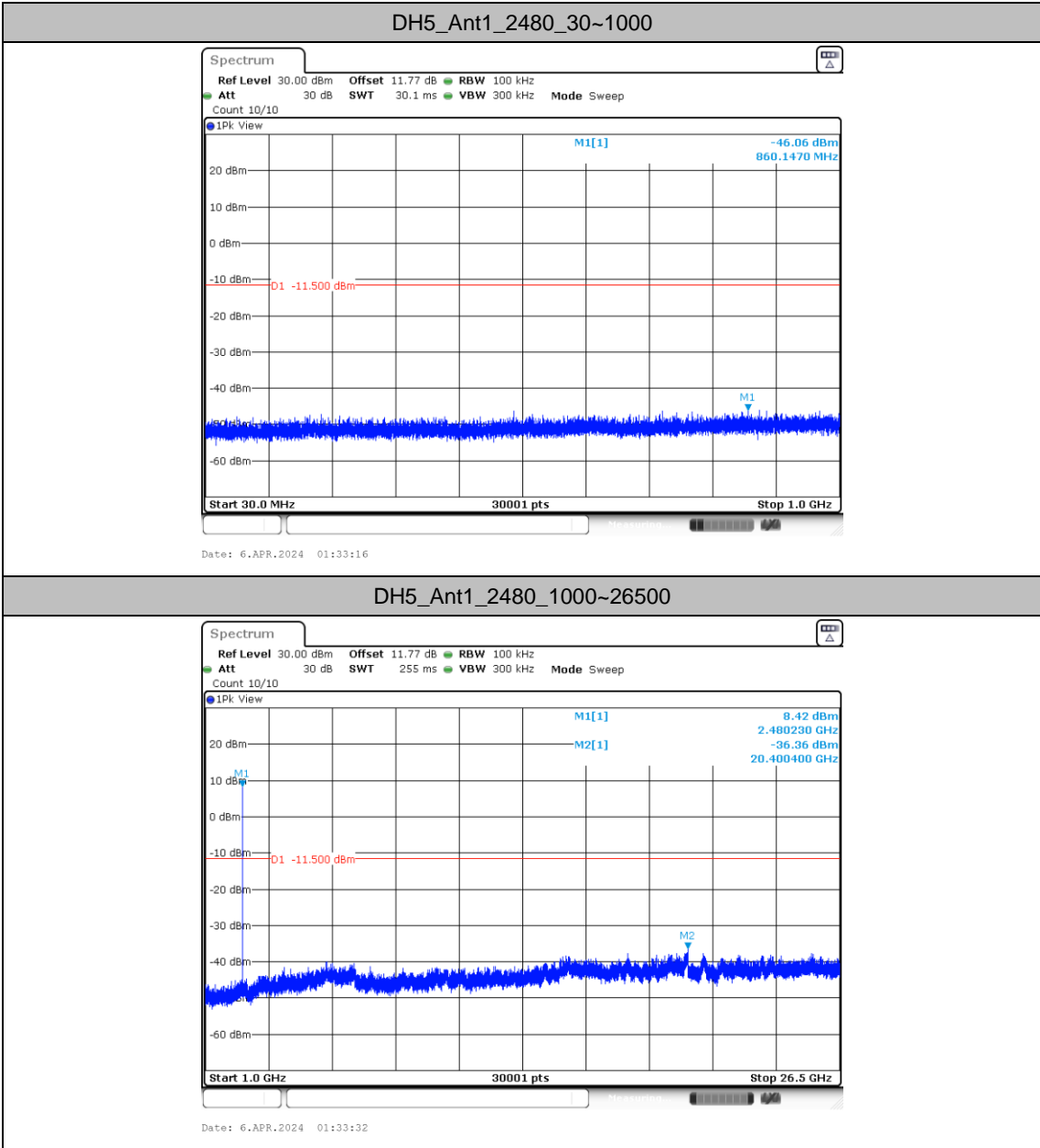


DH5_Ant0_2480_1000~26500



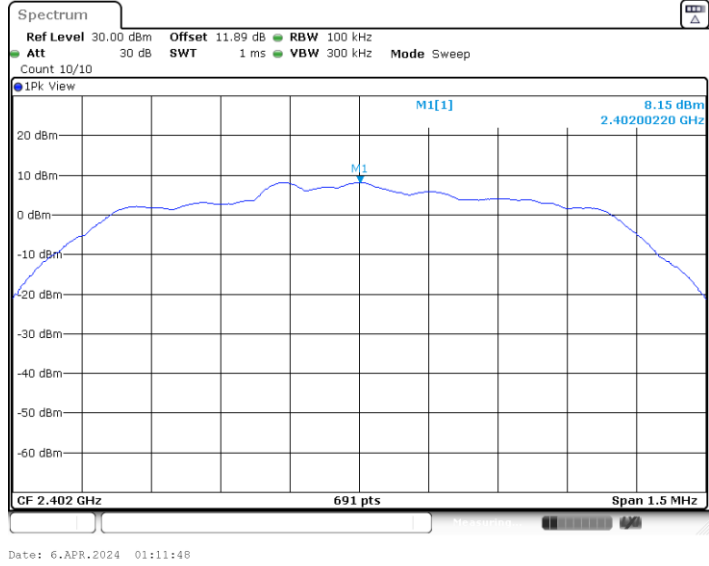
DH5_Ant1_2480_0~Reference



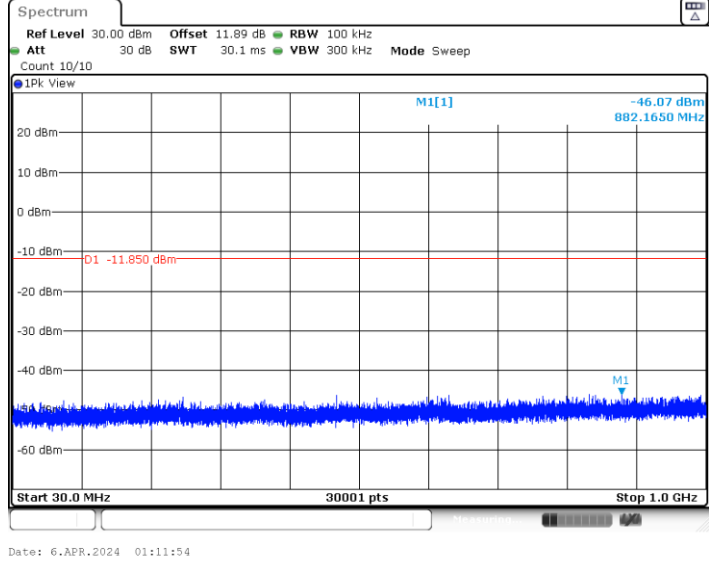




2DH1_Ant0_2402_0~Reference

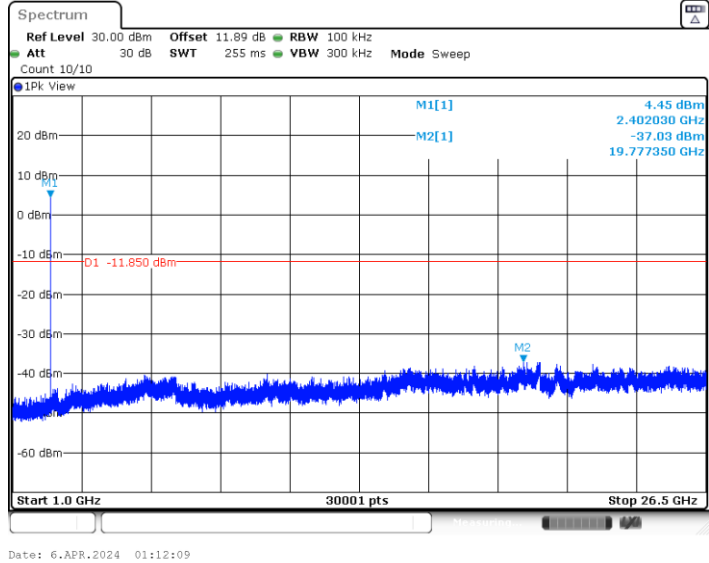


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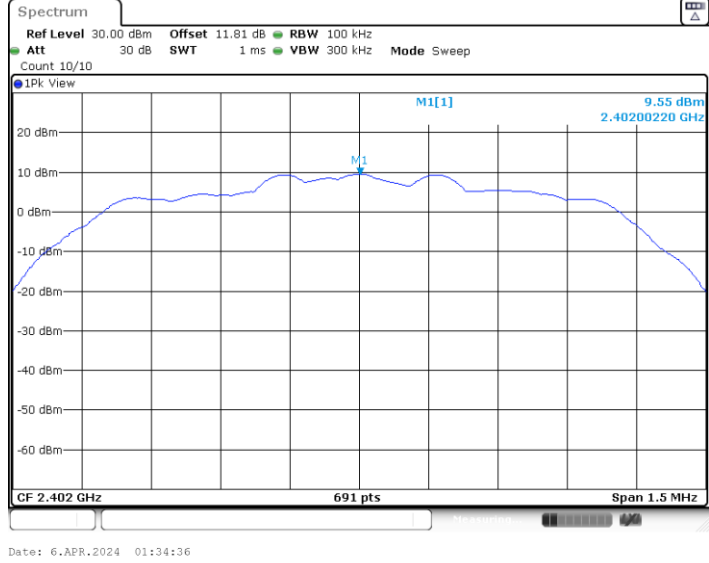




2DH1_Ant0_2402_1000~26500

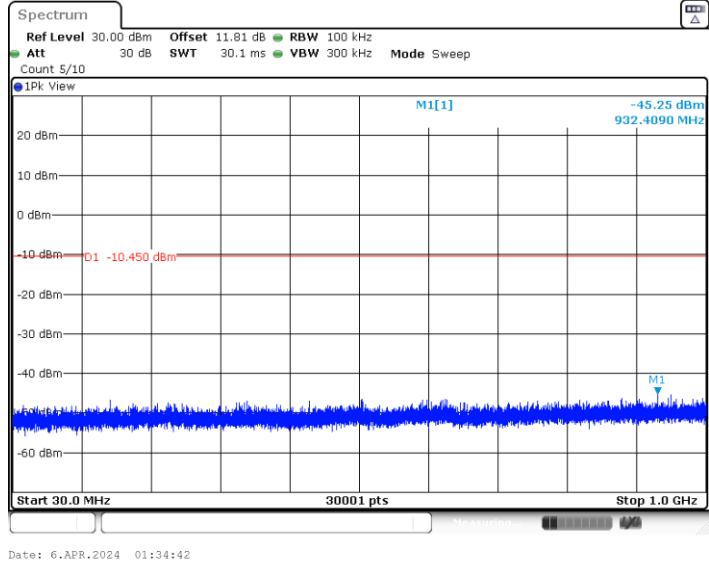


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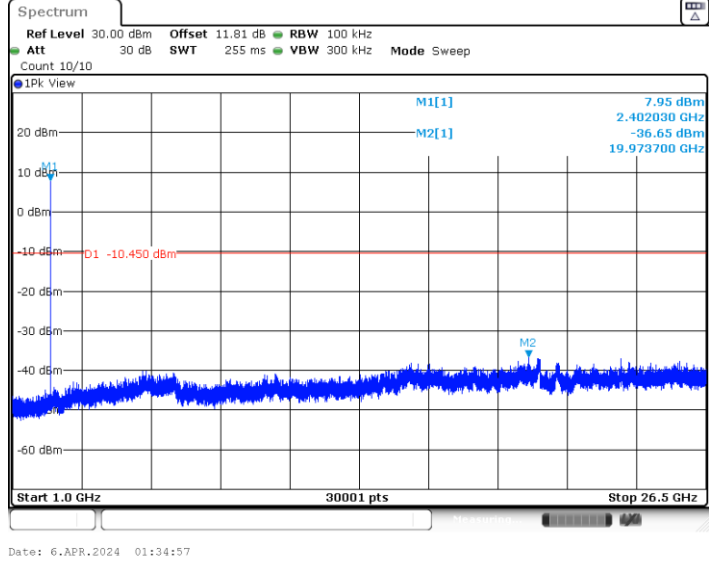




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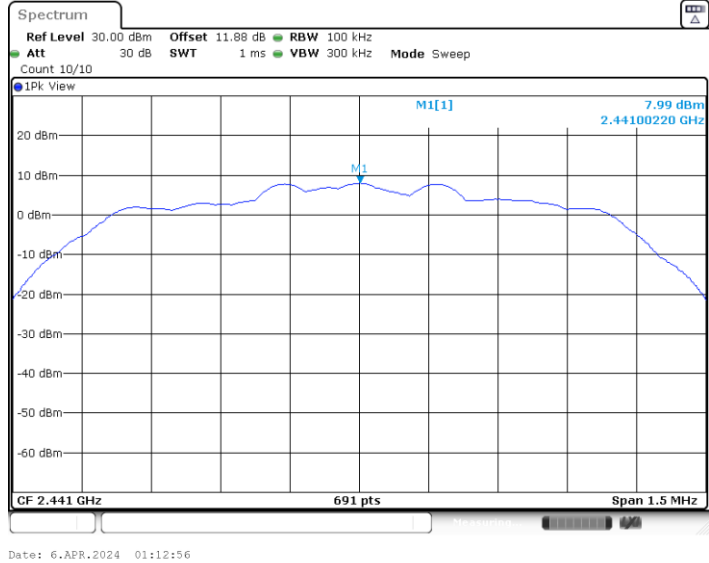


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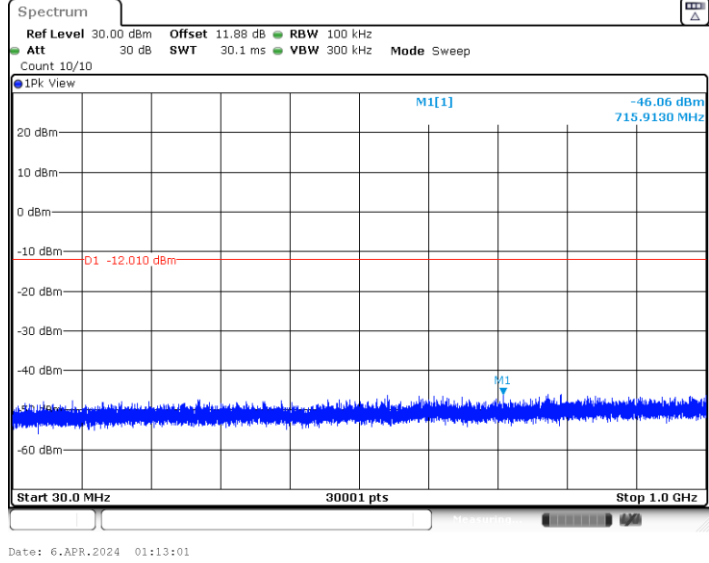




2DH1_Ant0_2441_0~Reference

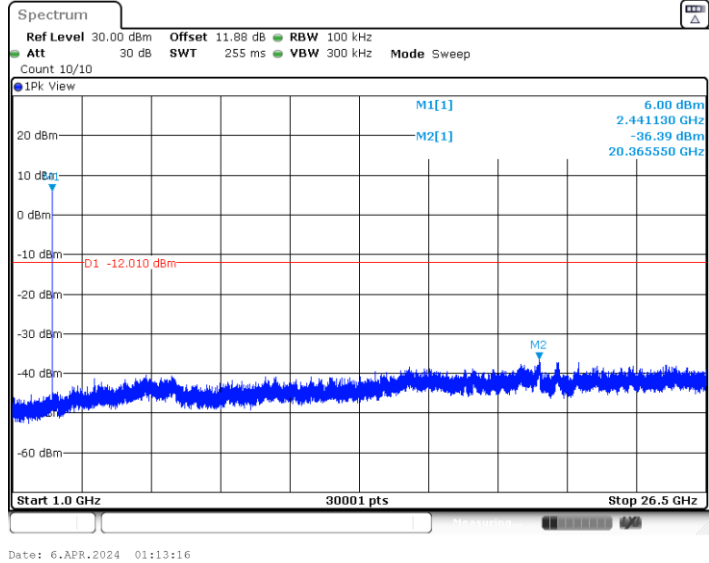


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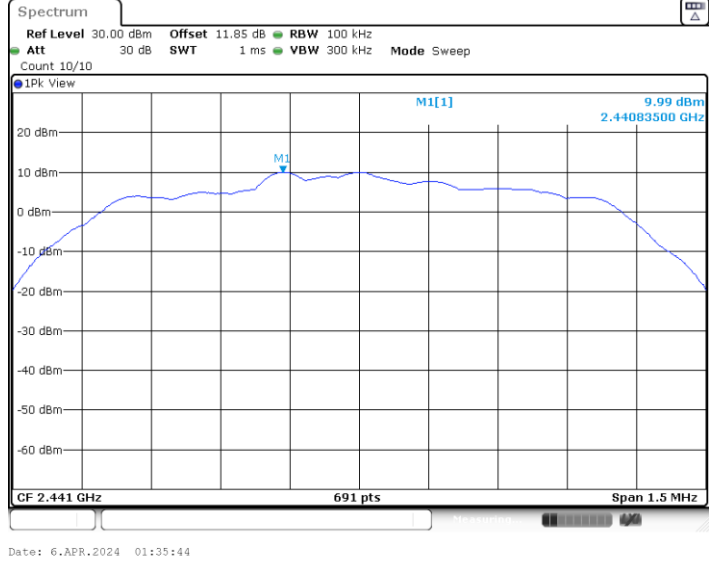




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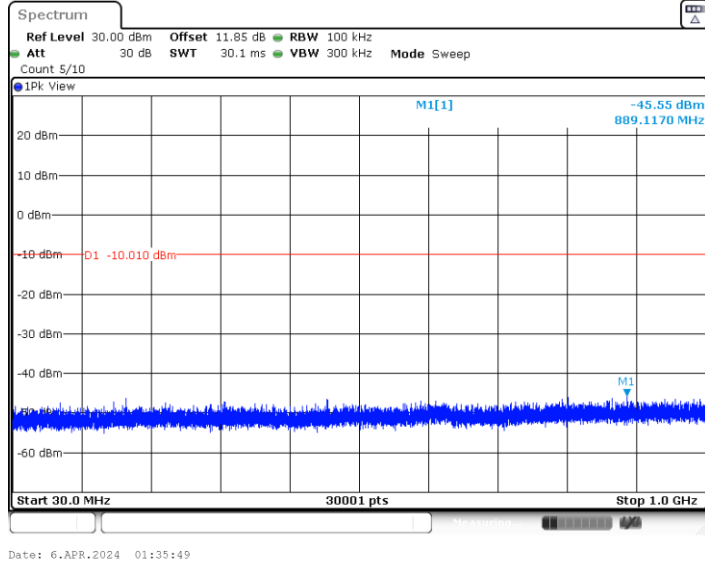


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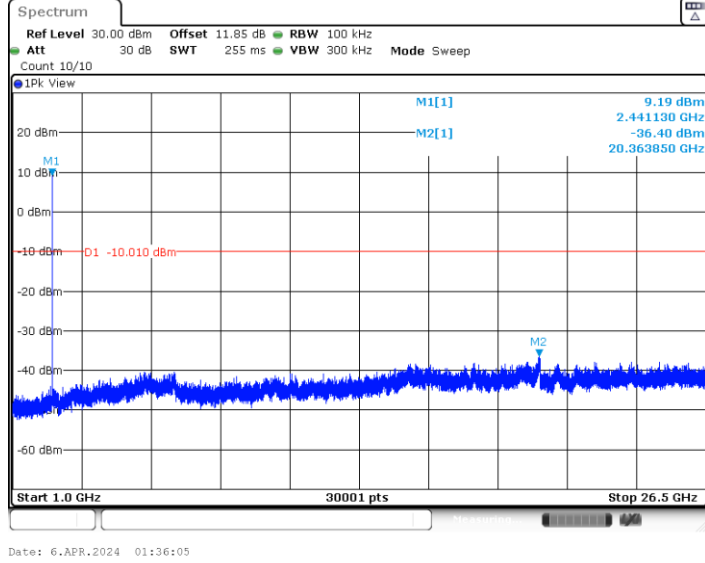


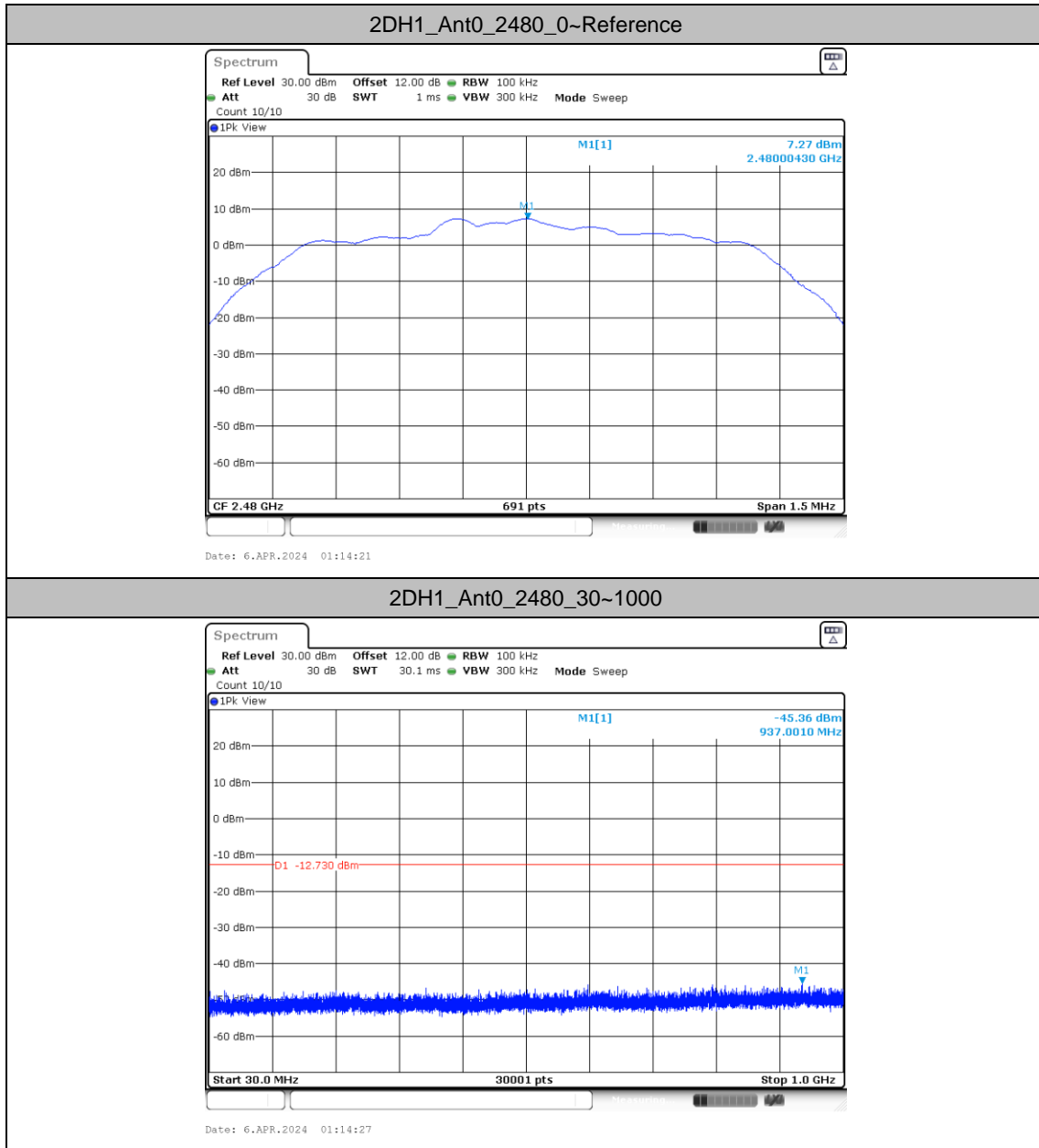


2DH1_Ant1_2441_30~1000



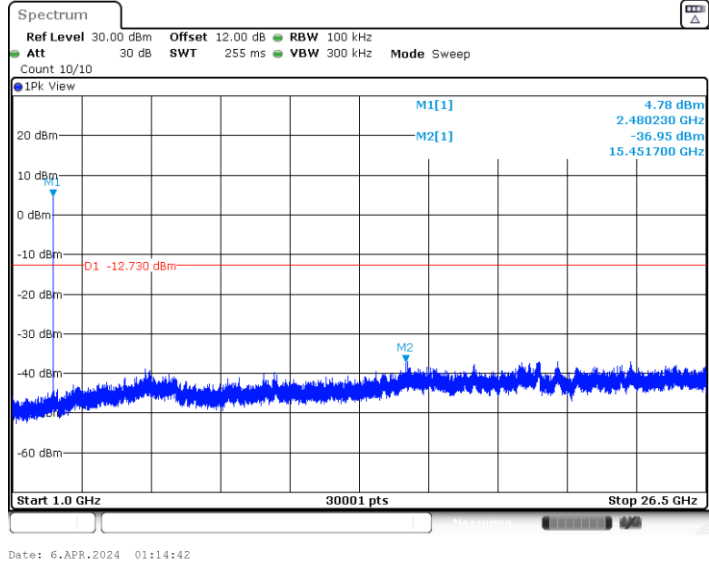
2DH1_Ant1_2441_1000~26500



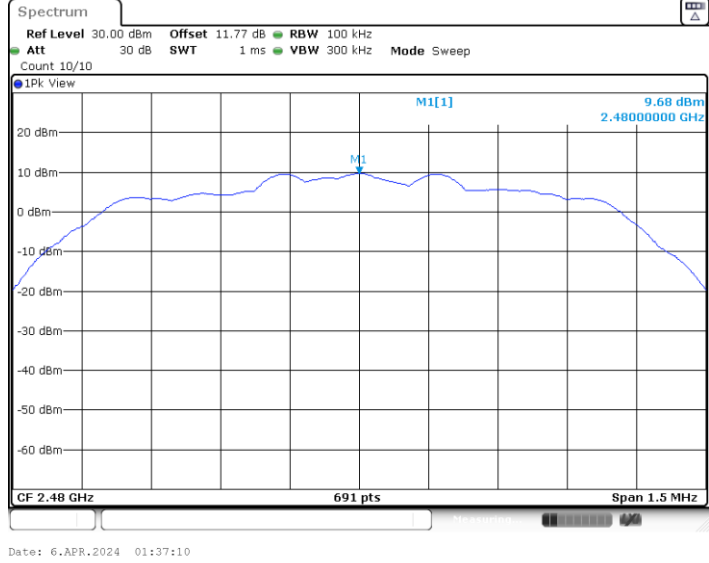




2DH1_Ant0_2480_1000~26500

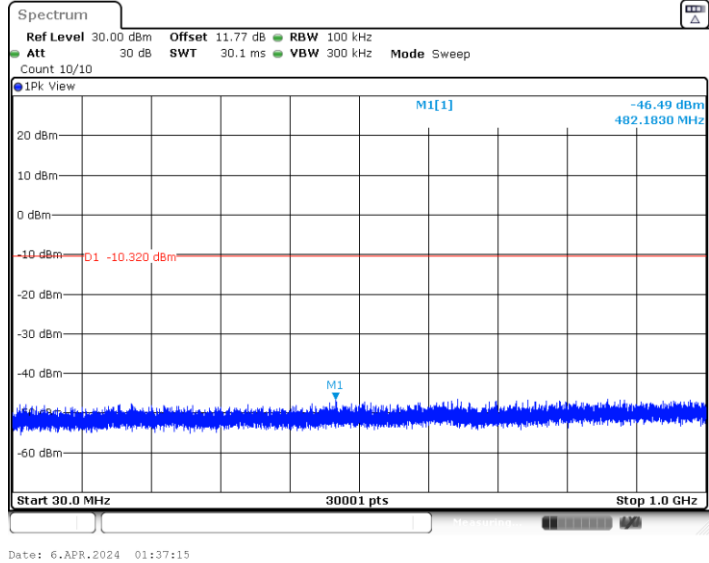


2DH1_Ant1_2480_0~Reference

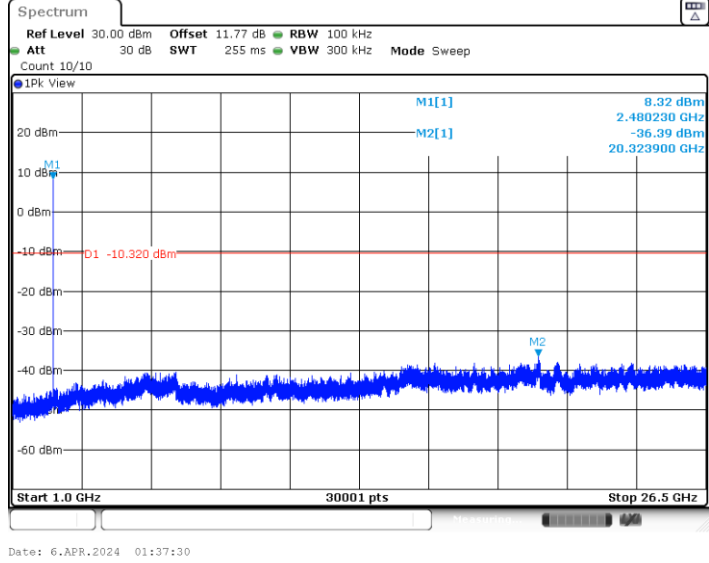




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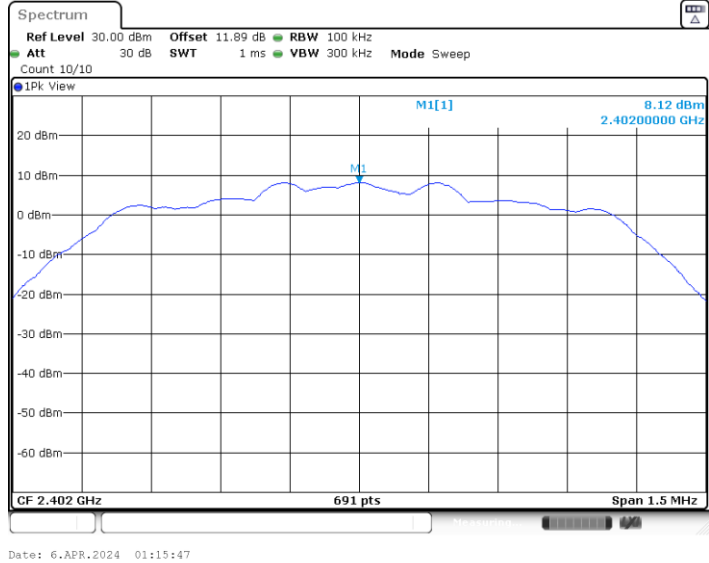


2DH1_Ant1_2480_1000~26500

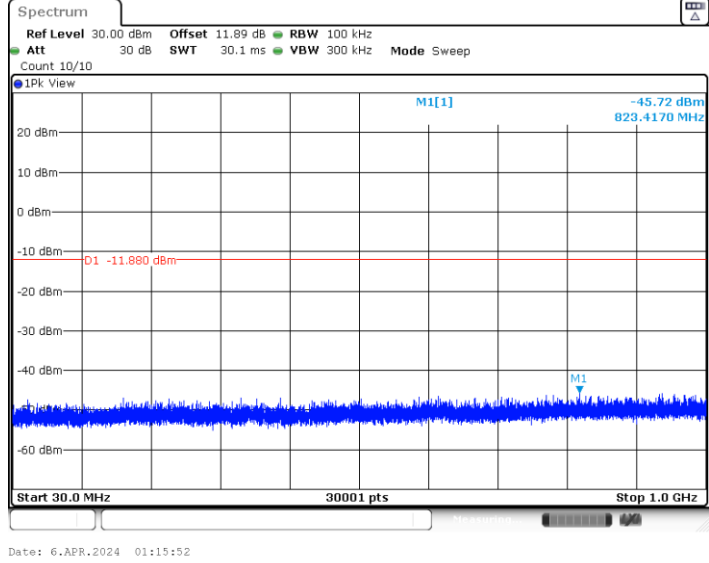




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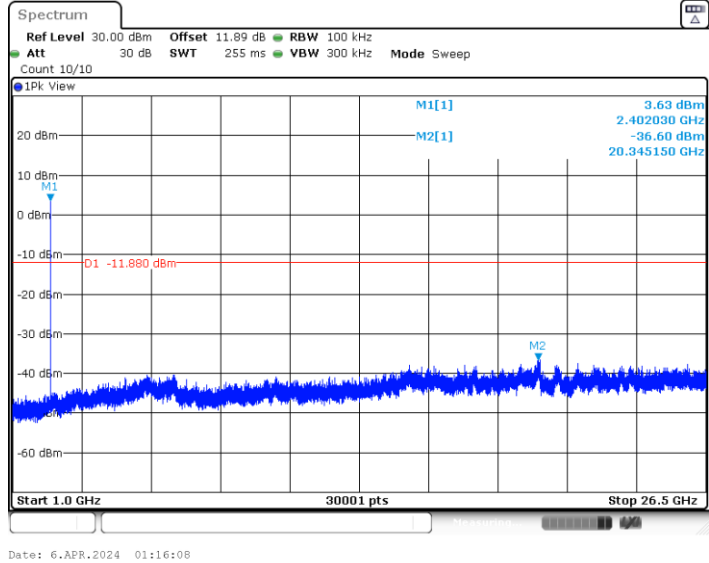


3DH1_Ant0_2402_30~1000

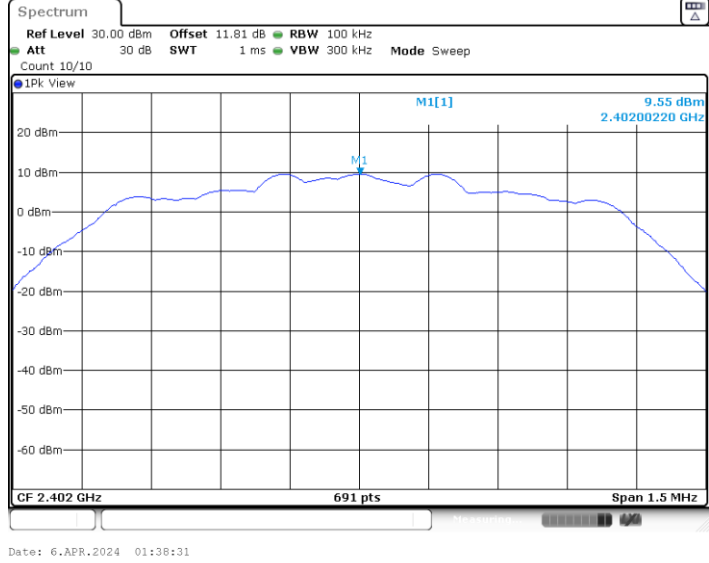




3DH1_Ant0_2402_1000~26500

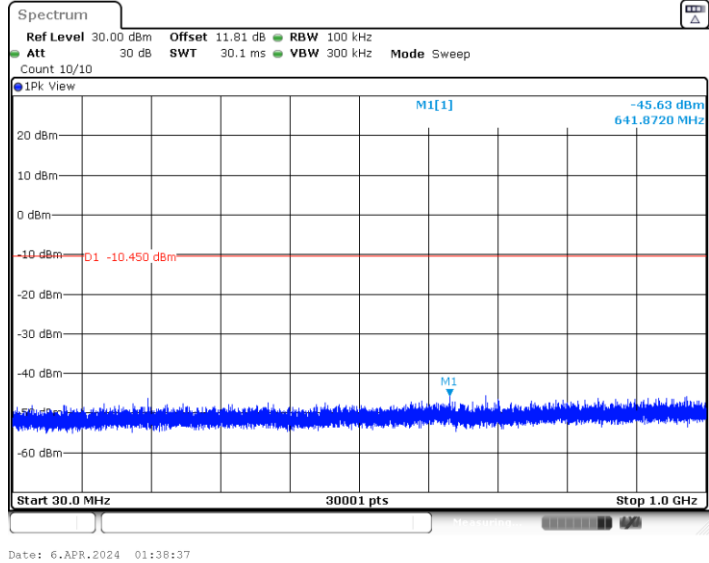


3DH1_Ant1_2402_0~Reference

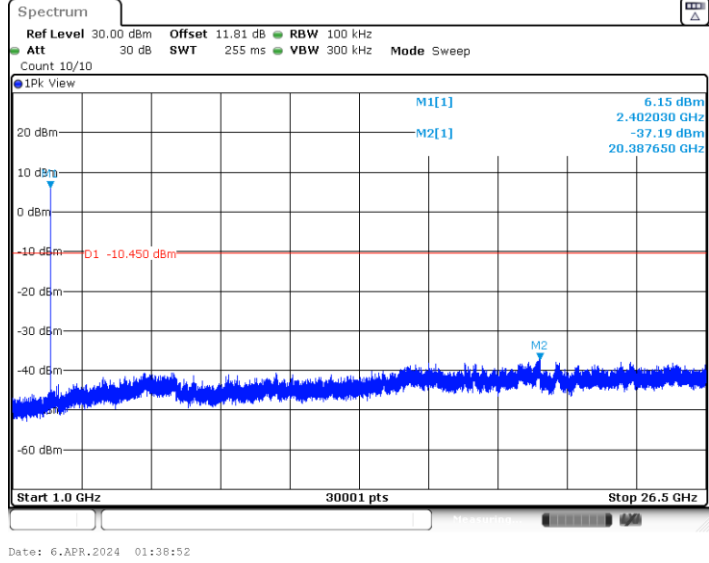


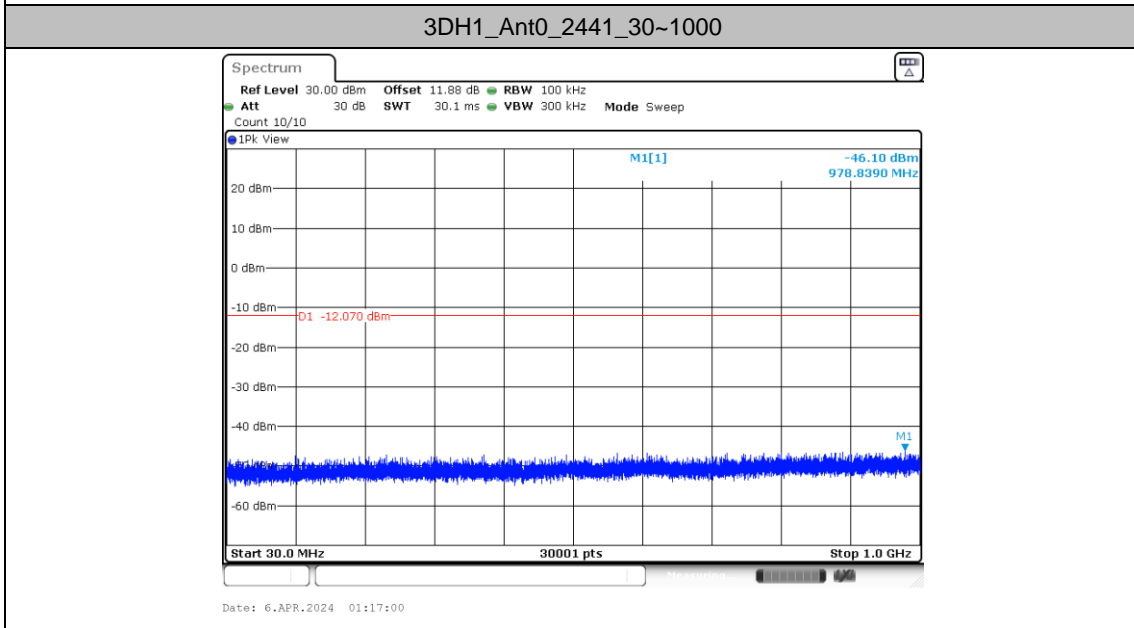
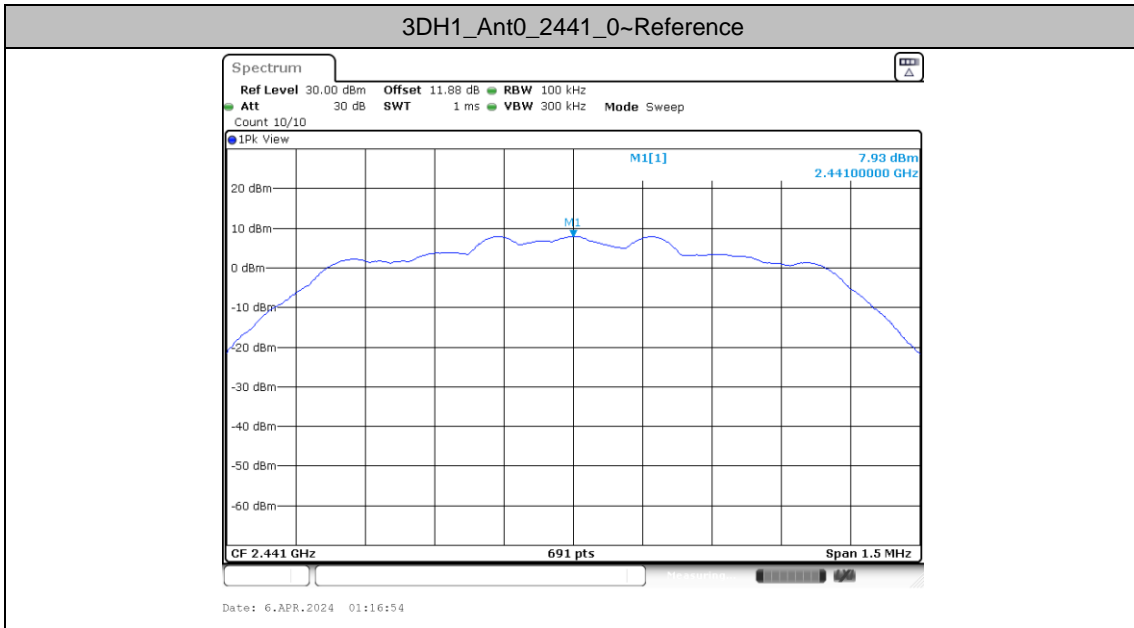


3DH1_Ant1_2402_30~1000



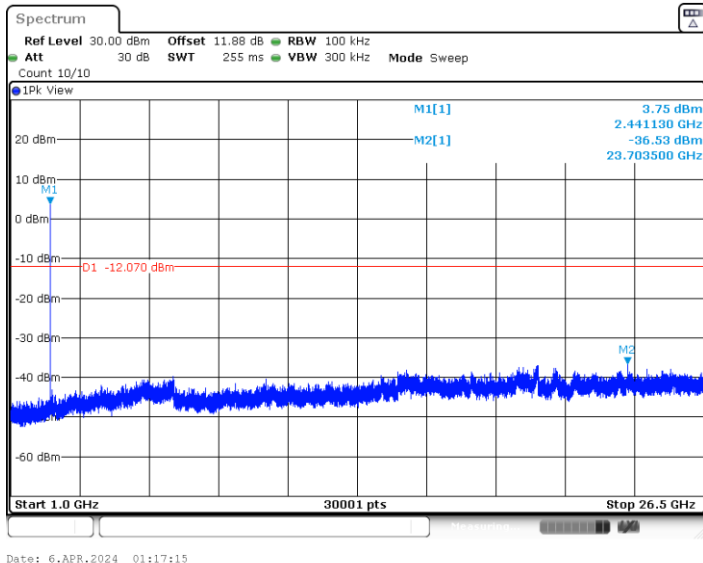
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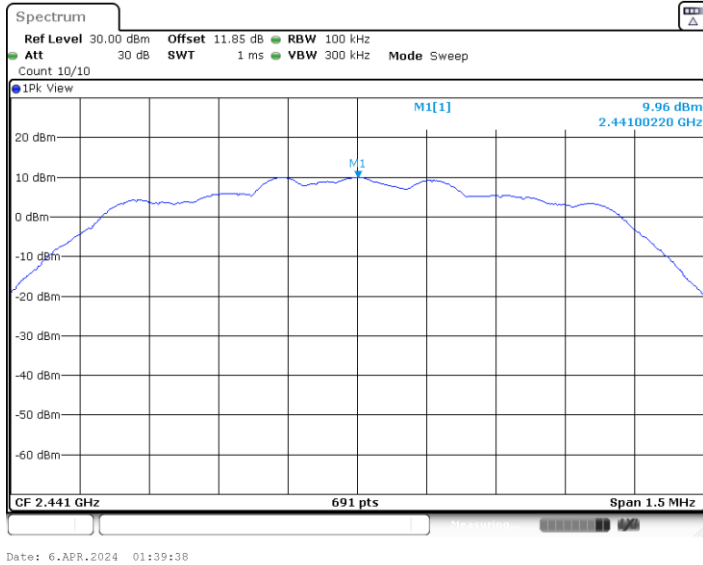




3DH1_Ant0_2441_1000~26500

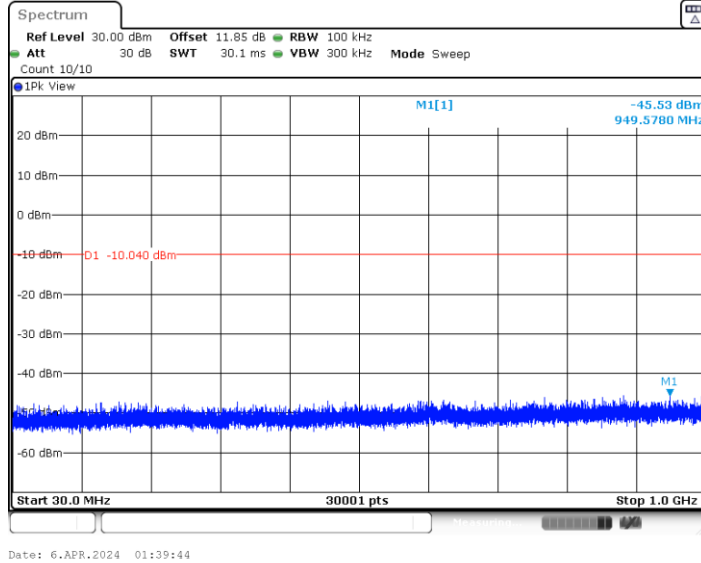


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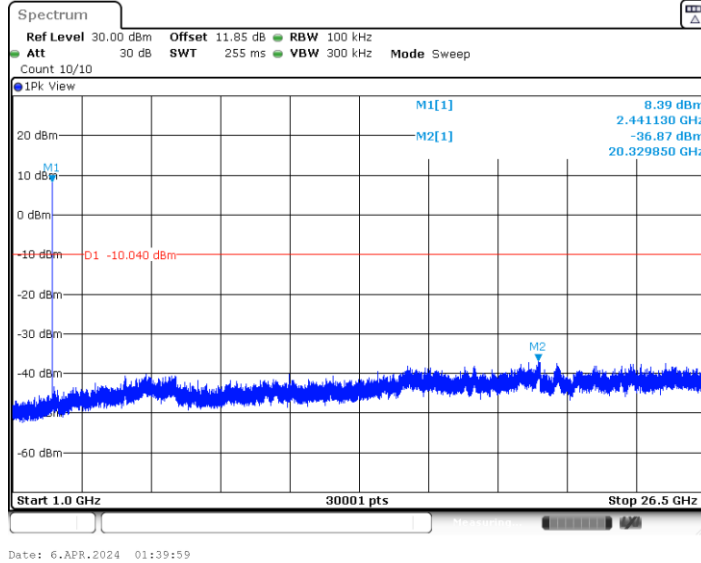


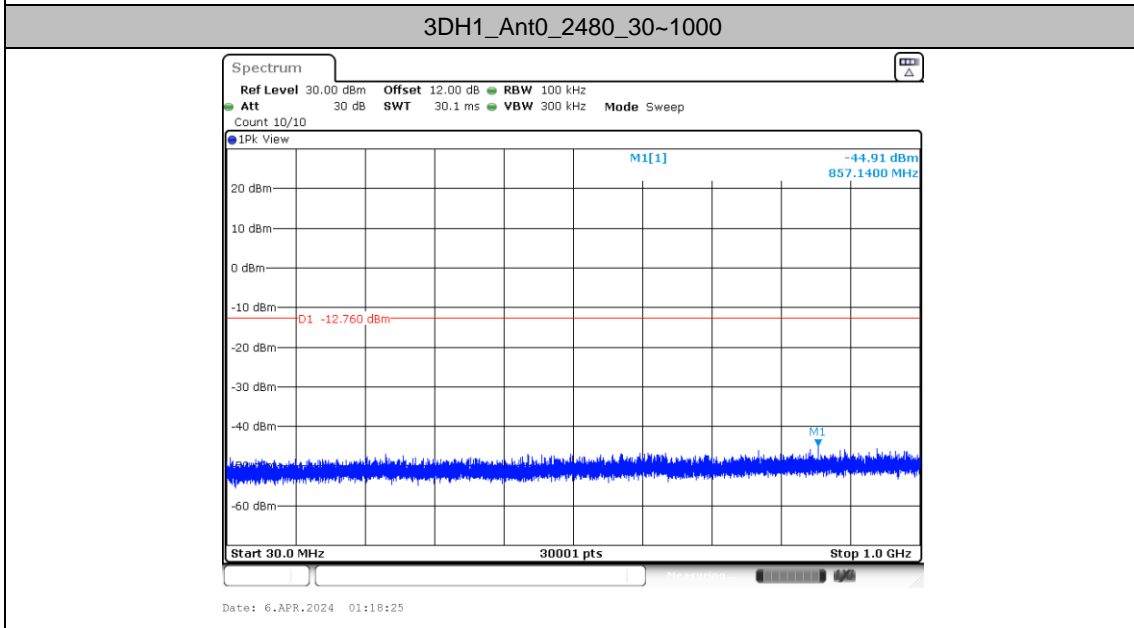
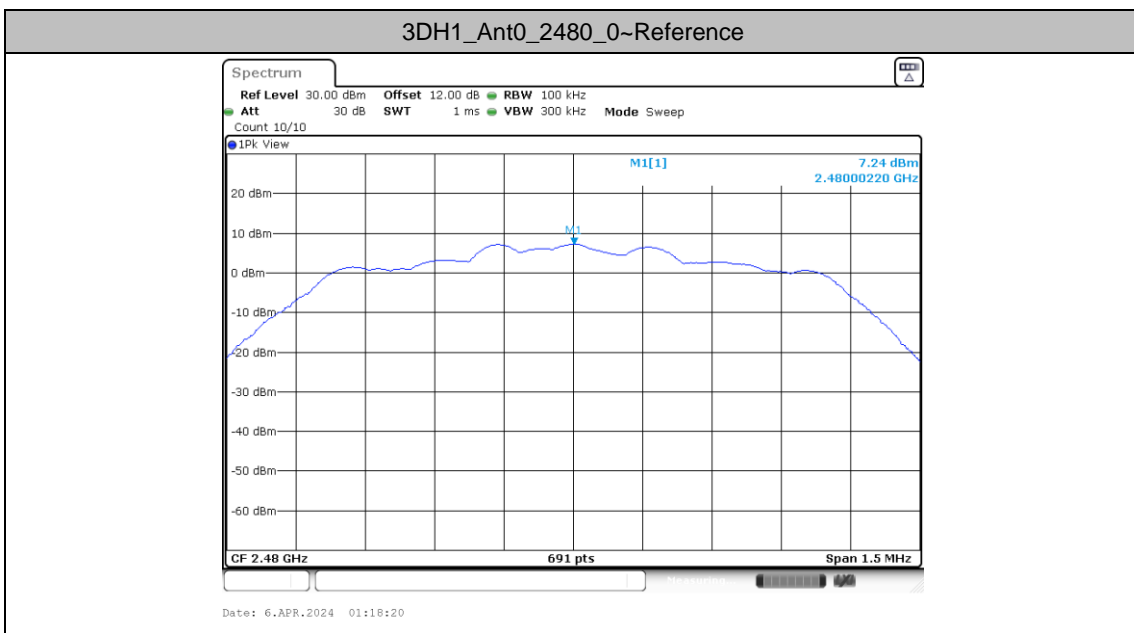


3DH1_Ant1_2441_30~1000



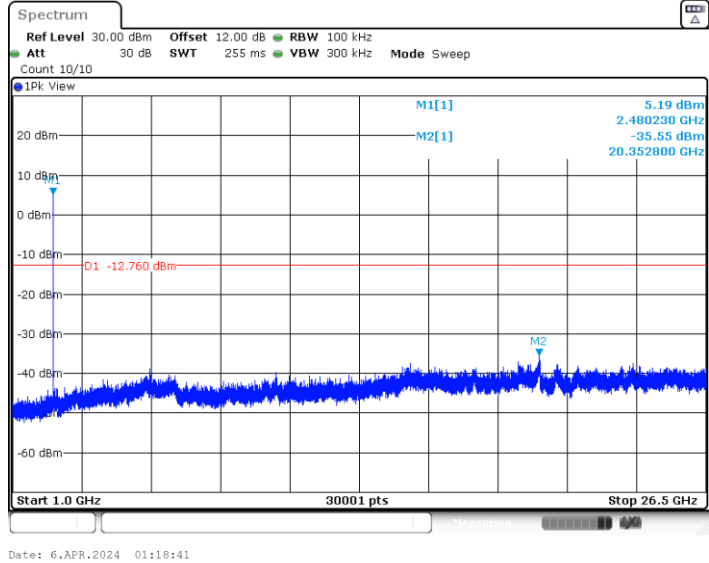
3DH1_Ant1_2441_1000~26500



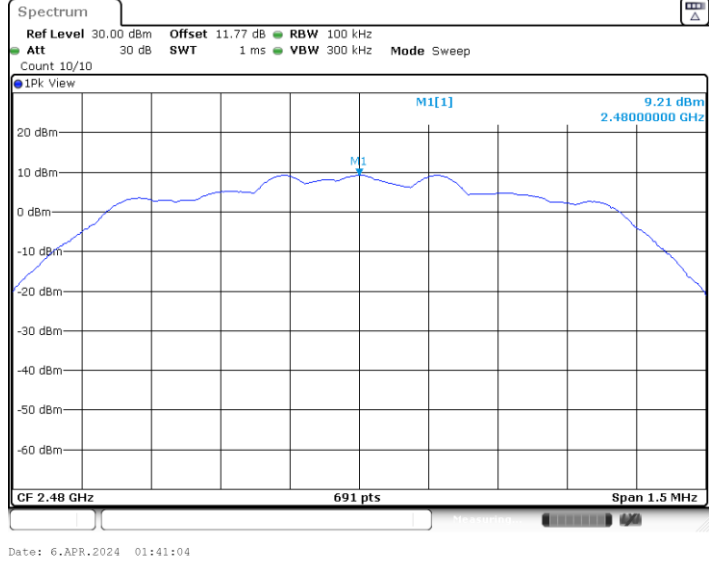




3DH1_Ant0_2480_1000~26500

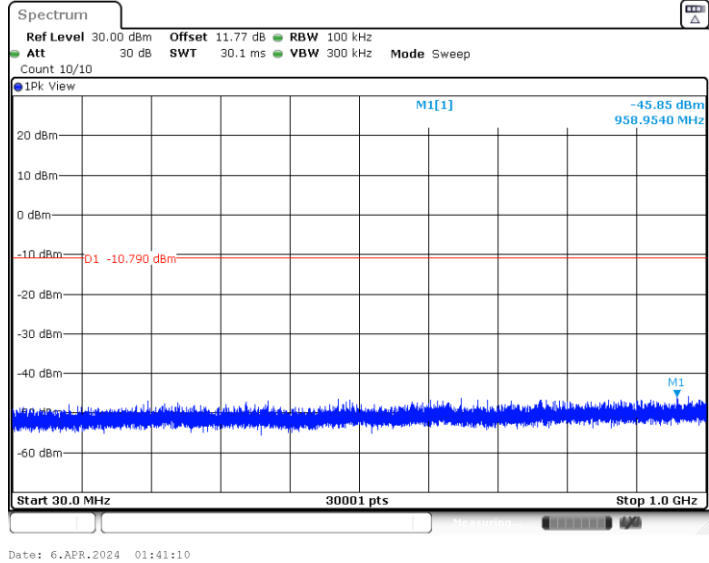


3DH1_Ant1_2480_0~Reference

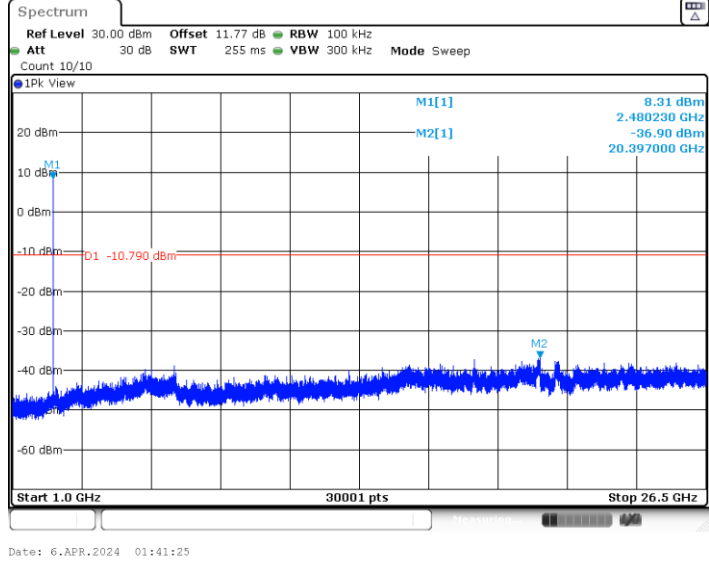




3DH1_Ant1_2480_30~1000



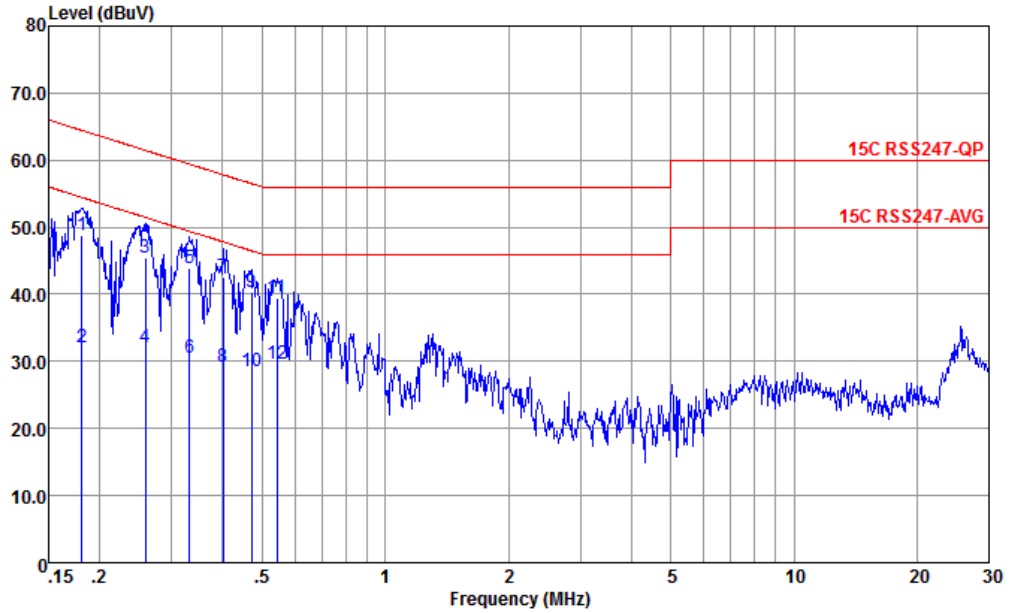
3DH1_Ant1_2480_1000~26500





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 :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

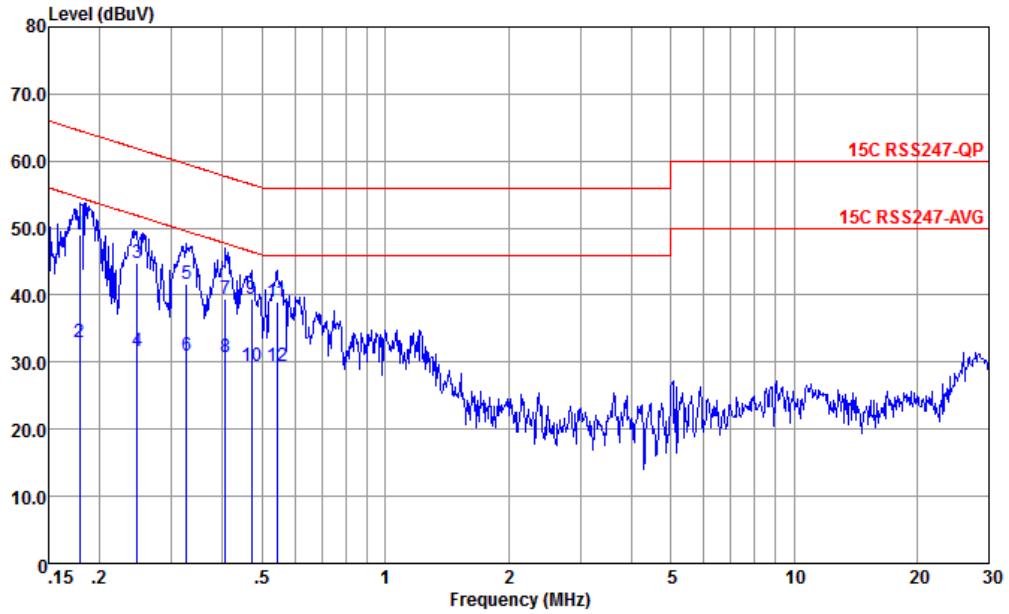


Site : CO01-KS
 Condition : 15C RSS247-QP LISN-060105-L 2023 LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.181	48.75	-15.71	64.46	38.30	0.04	10.41	QP
2	0.181	32.05	-22.41	54.46	21.60	0.04	10.41	Average
3	0.259	45.50	-15.97	61.47	35.10	0.04	10.36	QP
4	0.259	32.00	-19.47	51.47	21.60	0.04	10.36	Average
5	0.332	43.94	-15.46	59.40	33.60	0.03	10.31	QP
6	0.332	30.64	-18.76	49.40	20.30	0.03	10.31	Average
7 *	0.402	42.48	-15.33	57.81	32.20	0.00	10.28	QP
8	0.402	29.18	-18.63	47.81	18.90	0.00	10.28	Average
9	0.471	40.41	-16.08	56.49	30.19	-0.02	10.24	QP
10	0.471	28.41	-18.08	46.49	18.19	-0.02	10.24	Average
11	0.544	39.46	-16.54	56.00	29.30	-0.04	10.20	QP
12	0.544	29.56	-16.44	46.00	19.40	-0.04	10.20	Average



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 : 15C 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 *	0.179	49.06	-15.49	64.55	38.60	0.05	10.41	QP
2	0.179	33.06	-21.49	54.55	22.60	0.05	10.41	Average
3	0.247	44.87	-16.99	61.86	34.50	0.00	10.37	QP
4	0.247	31.67	-20.19	51.86	21.30	0.00	10.37	Average
5	0.327	41.77	-17.76	59.53	31.50	-0.05	10.32	QP
6	0.327	30.87	-18.66	49.53	20.60	-0.05	10.32	Average
7	0.406	39.42	-18.31	57.73	29.20	-0.06	10.28	QP
8	0.406	30.82	-16.91	47.73	20.60	-0.06	10.28	Average
9	0.471	39.37	-17.12	56.49	29.20	-0.07	10.24	QP
10	0.471	29.47	-17.02	46.49	19.30	-0.07	10.24	Average
11	0.544	38.93	-17.07	56.00	28.80	-0.07	10.20	QP
12	0.544	29.43	-16.57	46.00	19.30	-0.07	10.20	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 :	Koi Ji	Relative Humidity :	41 ~ 42%
		Temperature :	22 ~ 23°C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	0	Bluetooth EBR_8-DPSK	00	2402	3Mbps	-	-
Mode 2	2400-2483.5	0	Bluetooth EBR_8-DPSK	39	2441	3Mbps	-	-
Mode 3	2400-2483.5	0	Bluetooth EBR_8-DPSK	78	2480	3Mbps	-	-
Mode 4	2400-2483.5	1	Bluetooth EBR_8-DPSK	00	2402	3Mbps	-	-
Mode 5	2400-2483.5	1	Bluetooth EBR_8-DPSK	39	2441	3Mbps	-	-
Mode 6	2400-2483.5	1	Bluetooth EBR_8-DPSK	78	2480	3Mbps	-	-

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 EBR_8-DPSK	00	2380.59	54.91	74.00	-19.09	V	PEAK	Pass	Band Edge
1	Bluetooth EBR_8-DPSK	00	4987.00	48.72	74.00	-25.28	H	PEAK	Pass	Harmonic
2	Bluetooth EBR_8-DPSK	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth EBR_8-DPSK	39	4977.00	47.71	74.00	-26.29	H	PEAK	Pass	Harmonic
3	Bluetooth EBR_8-DPSK	78	2493.51	55.01	74.00	-18.99	V	PEAK	Pass	Band Edge
3	Bluetooth EBR_8-DPSK	78	4984.00	47.95	74.00	-26.05	H	PEAK	Pass	Harmonic
4	Bluetooth EBR_8-DPSK	00	2381.89	55.33	74.00	-18.67	H	PEAK	Pass	Band Edge
4	Bluetooth EBR_8-DPSK	00	4978.00	48.17	74.00	-25.83	H	PEAK	Pass	Harmonic
5	Bluetooth EBR_8-DPSK	39	-	-	-	-	-	-	-	Band Edge
5	Bluetooth EBR_8-DPSK	39	4990.00	48.63	74.00	-25.37	H	PEAK	Pass	Harmonic
6	Bluetooth EBR_8-DPSK	78	2493.16	55.76	74.00	-18.24	V	PEAK	Pass	Band Edge
6	Bluetooth EBR_8-DPSK	78	4978.00	47.48	74.00	-26.52	H	PEAK	Pass	Harmonic



Mode	1																																																																																																																
	Band Edge																																																																																																																
	2400-2483.5_Bluetooth EBR_8-DPSK_CH00_2402MHz																																																																																																																
ANT	0																																																																																																																
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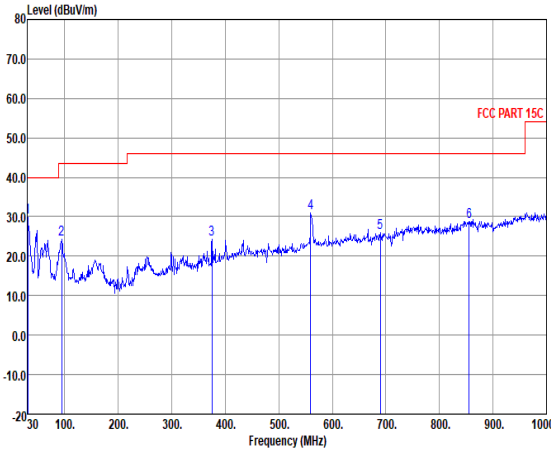
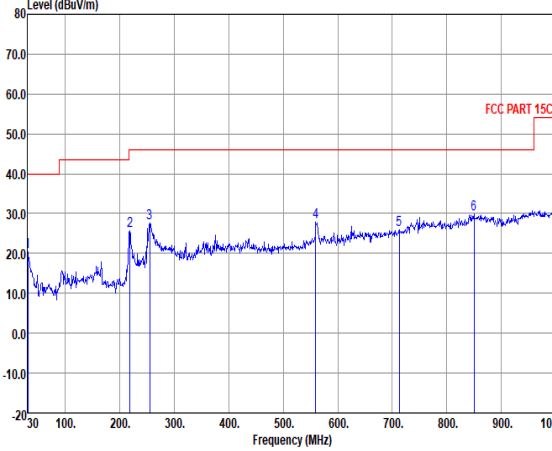
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Note: Only the worst case has assessed 18G ~25GHz to test.

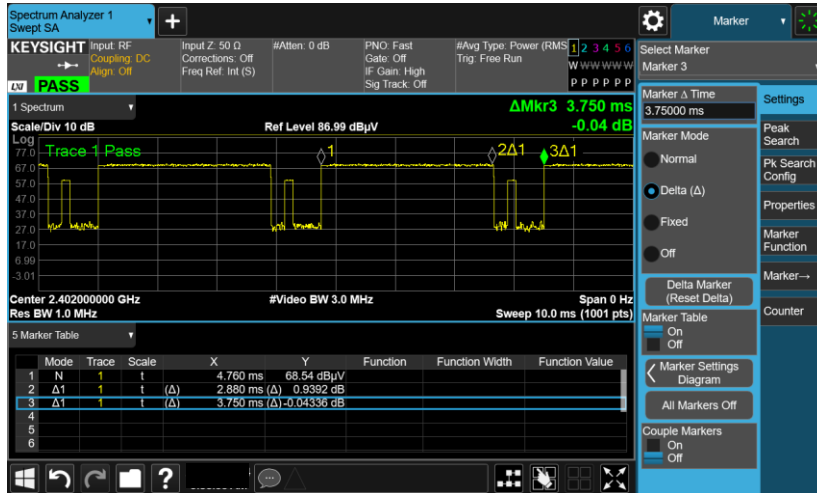


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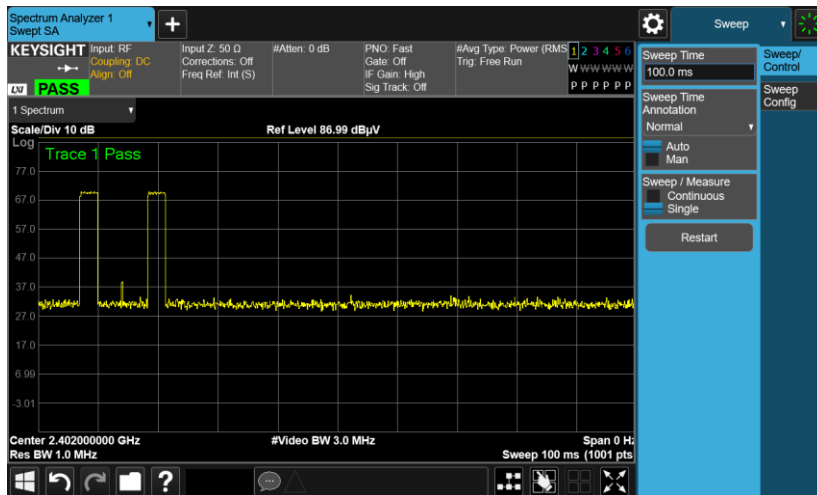
Appendix D. Duty Cycle Plots

For Ant.0:

3DH5 on time (One Pulse) Plot on Channel 00



3DH5 on time (Count Pulses) Plot on Channel 00

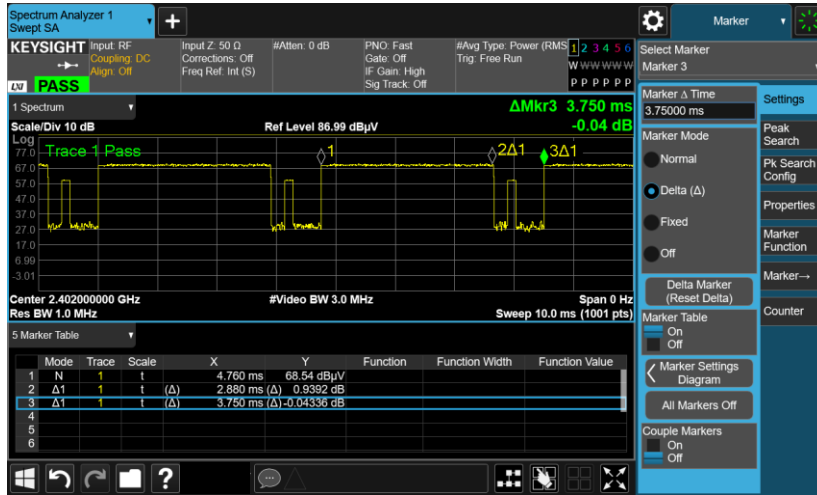


Note:

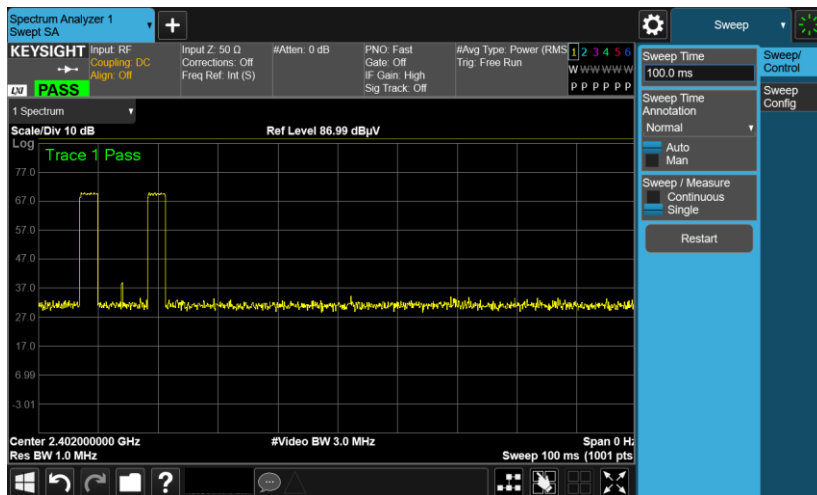
1. Worst case Duty cycle = on time/100 milliseconds = $2 * 2.88 / 100 = 5.76 \%$
2. Worst case Duty cycle correction factor = $20 * \log(\text{Duty cycle}) = -24.79 \text{ dB}$
3. 3DH5 has the highest duty cycle worst case and is reported.

For Ant.1:

3DH5 on time (One Pulse) Plot on Channel 00



3DH5 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. 3DH5 has the highest duty cycle worst case and is reported.