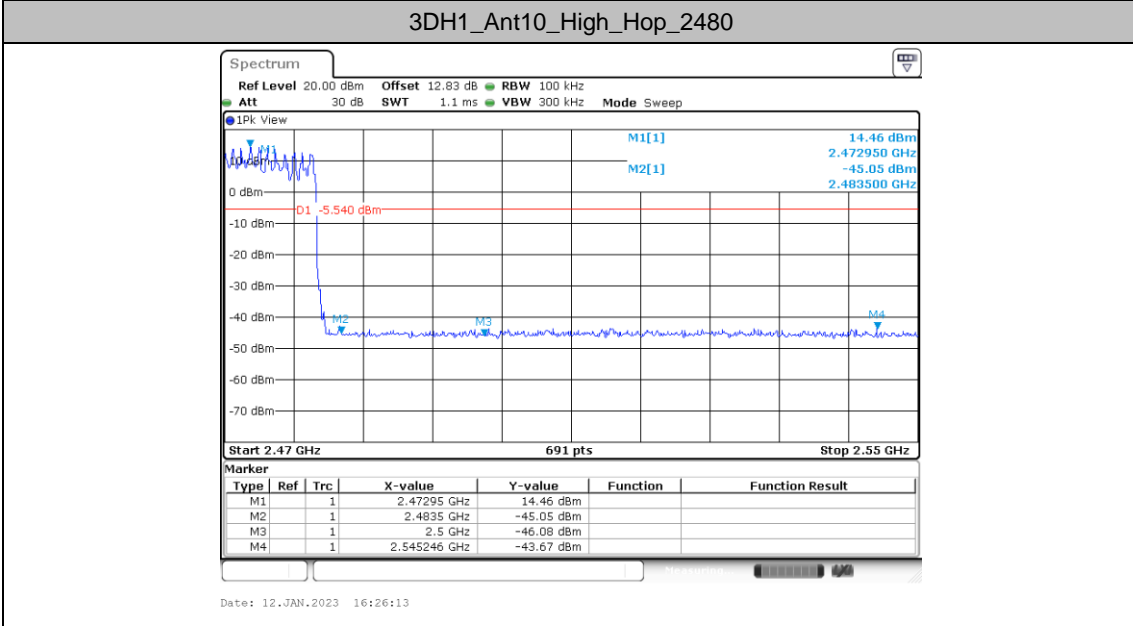
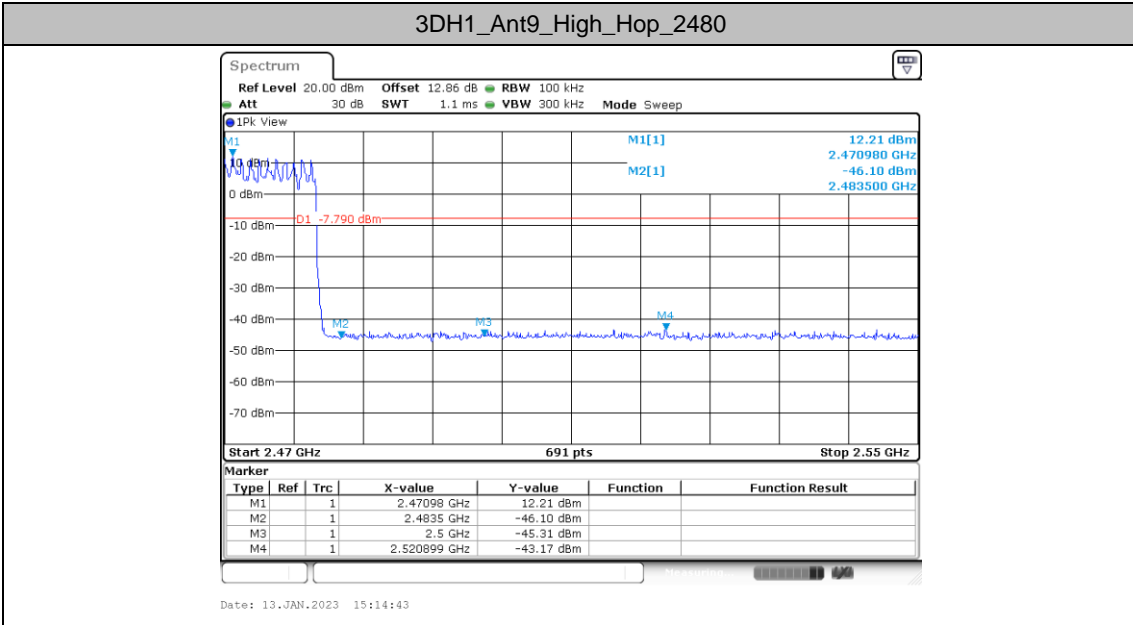

**3DH1\_Ant10\_Low\_Hop\_2402**





## Conducted Spurious Emission

### Test Result

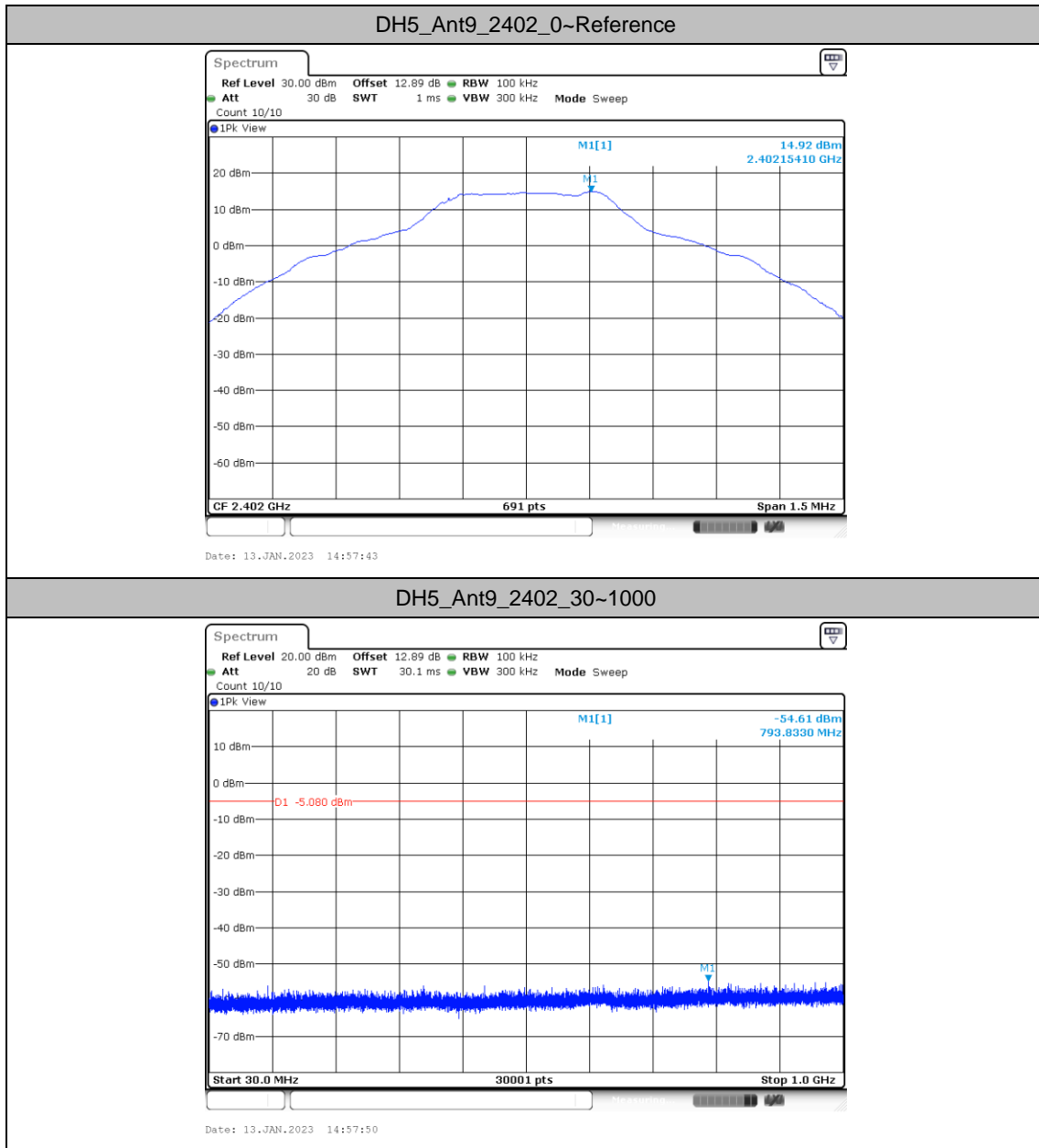
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
DH5	Ant9	2402	Reference	14.92	14.92	---	PASS	
			30~1000	14.92	-54.61	≤-5.08	PASS	
			1000~26500	14.92	-46.14	≤-5.08	PASS	
	Ant10	2402	Reference	16.61	16.61	---	PASS	
			30~1000	16.61	-55.11	≤-3.39	PASS	
			1000~26500	16.61	-46.36	≤-3.39	PASS	
	Ant9	2441	Reference	14.35	14.35	---	PASS	
			30~1000	14.35	-55.42	≤-5.65	PASS	
			1000~26500	14.35	-46.39	≤-5.65	PASS	
	Ant10	2441	Reference	15.77	15.77	---	PASS	
			30~1000	15.77	-55.08	≤-4.23	PASS	
			1000~26500	15.77	-45.31	≤-4.23	PASS	
	Ant9	2480	Reference	12.62	12.62	---	PASS	
			30~1000	12.62	-55.23	≤-7.38	PASS	
			1000~26500	12.62	-45.94	≤-7.38	PASS	
	Ant10	2480	Reference	14.21	14.21	---	PASS	
			30~1000	14.21	-55.34	≤-5.79	PASS	
			1000~26500	14.21	-46.67	≤-5.79	PASS	
	2DH1	Ant9	2402	Reference	12.88	12.88	---	PASS
				30~1000	12.88	-54.96	≤-7.12	PASS
				1000~26500	12.88	-45.6	≤-7.12	PASS
		Ant10	2402	Reference	14.71	14.71	---	PASS
				30~1000	14.71	-54.79	≤-5.29	PASS
				1000~26500	14.71	-46.17	≤-5.29	PASS
Ant9		2441	Reference	12.24	12.24	---	PASS	
			30~1000	12.24	-54.42	≤-7.76	PASS	
			1000~26500	12.24	-46.57	≤-7.76	PASS	
Ant10		2441	Reference	13.64	13.64	---	PASS	
			30~1000	13.64	-55.4	≤-6.36	PASS	
			1000~26500	13.64	-45.93	≤-6.36	PASS	
Ant9		2480	Reference	10.64	10.64	---	PASS	
			30~1000	10.64	-55.74	≤-9.36	PASS	



3DH1	Ant10	2480	1000~26500	10.64	-46.44	$\leq -9.36$	PASS
			Reference	12.41	12.41	---	PASS
			30~1000	12.41	-54.99	$\leq -7.59$	PASS
			1000~26500	12.41	-46.14	$\leq -7.59$	PASS
	Ant9	2402	Reference	12.92	12.92	---	PASS
			30~1000	12.92	-55.31	$\leq -7.08$	PASS
			1000~26500	12.92	-45.42	$\leq -7.08$	PASS
	Ant10	2402	Reference	16.44	16.44	---	PASS
			30~1000	16.44	-55	$\leq -3.56$	PASS
			1000~26500	16.44	-44.08	$\leq -3.56$	PASS
	Ant9	2441	Reference	14.62	14.62	---	PASS
			30~1000	14.62	-54.25	$\leq -5.38$	PASS
			1000~26500	14.62	-44.97	$\leq -5.38$	PASS
	Ant10	2441	Reference	13.75	13.75	---	PASS
			30~1000	13.75	-54.9	$\leq -6.25$	PASS
			1000~26500	13.75	-46.56	$\leq -6.25$	PASS
	Ant9	2480	Reference	10.76	10.76	---	PASS
			30~1000	10.76	-55.07	$\leq -9.24$	PASS
			1000~26500	10.76	-46.17	$\leq -9.24$	PASS
	Ant10	2480	Reference	12.52	12.52	---	PASS
			30~1000	12.52	-55.57	$\leq -7.48$	PASS
			1000~26500	12.52	-45.95	$\leq -7.48$	PASS



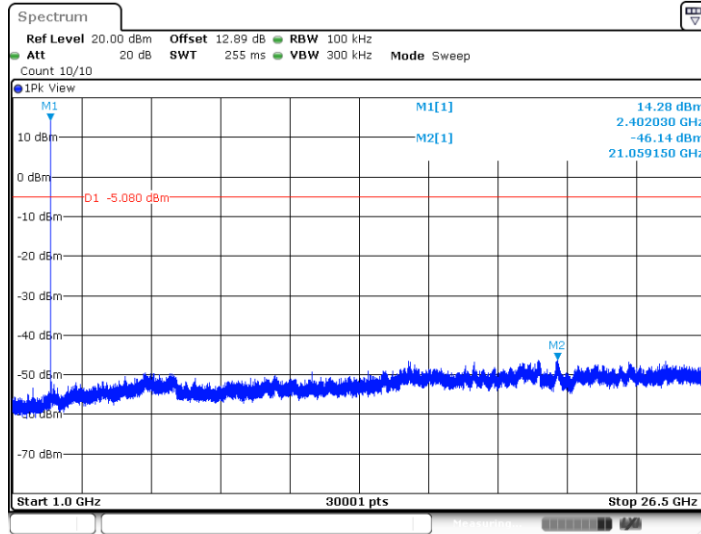
### Test Graphs





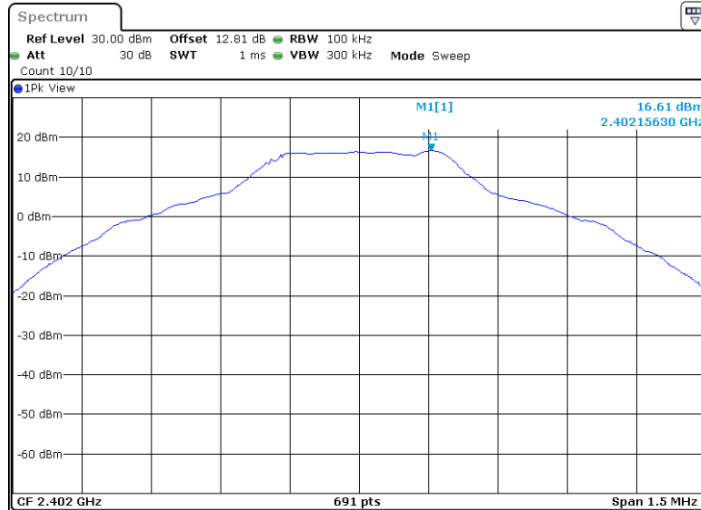


DH5\_Ant9\_2402\_1000~26500



Date: 13.JAN.2023 14:58:27

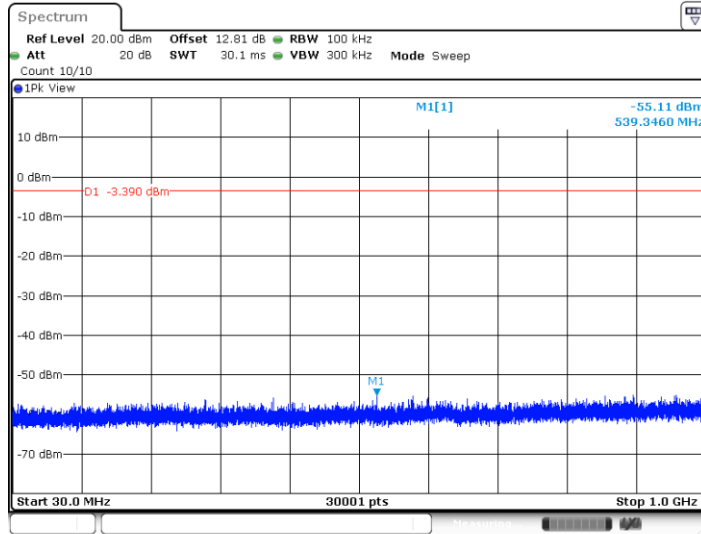
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Date: 12.JAN.2023 16:10:45

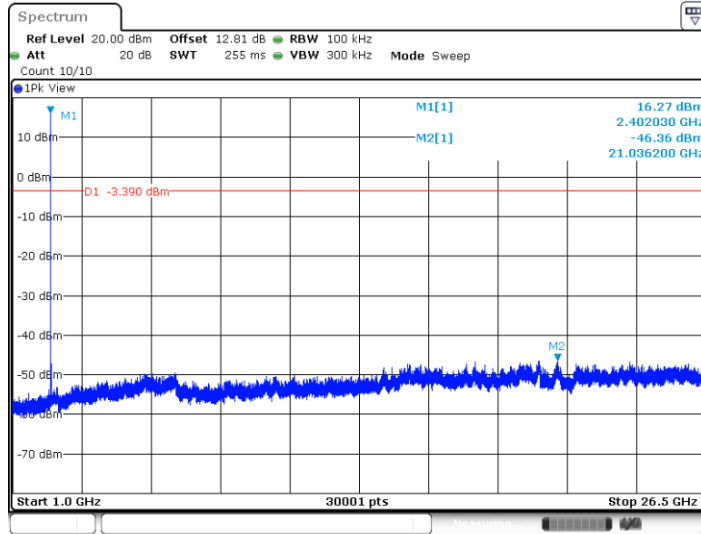


DH5\_Ant10\_2402\_30~1000



Date: 12.JAN.2023 16:10:52

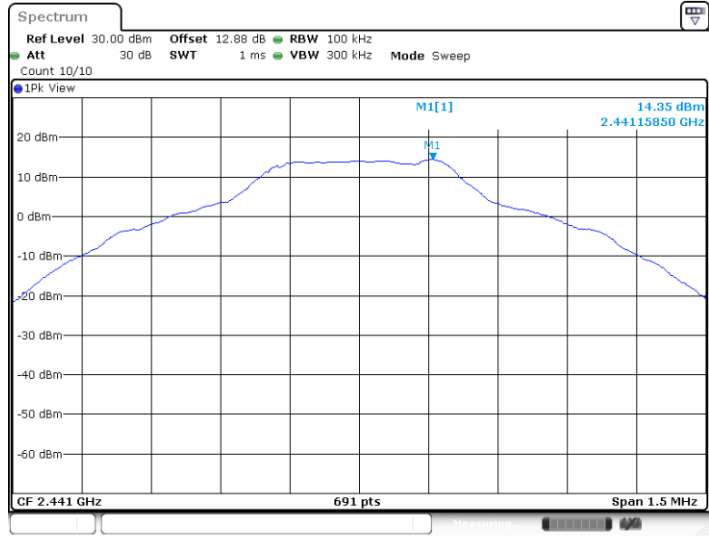
DH5\_Ant10\_2402\_1000~26500



Date: 12.JAN.2023 16:11:29

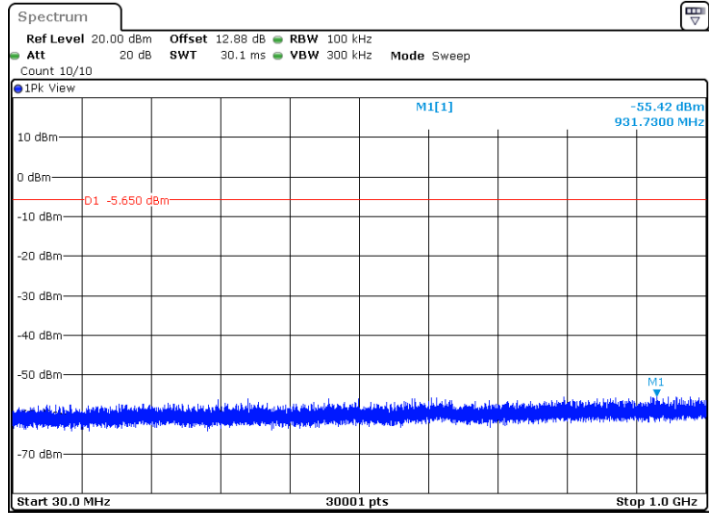


DH5\_Ant9\_2441\_0~Reference



Date: 13.JAN.2023 14:59:08

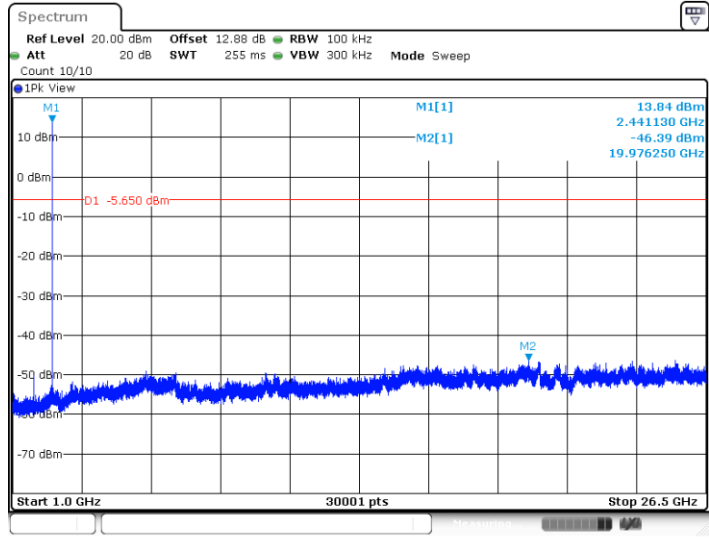
DH5\_Ant9\_2441\_30~1000



Date: 13.JAN.2023 14:59:14

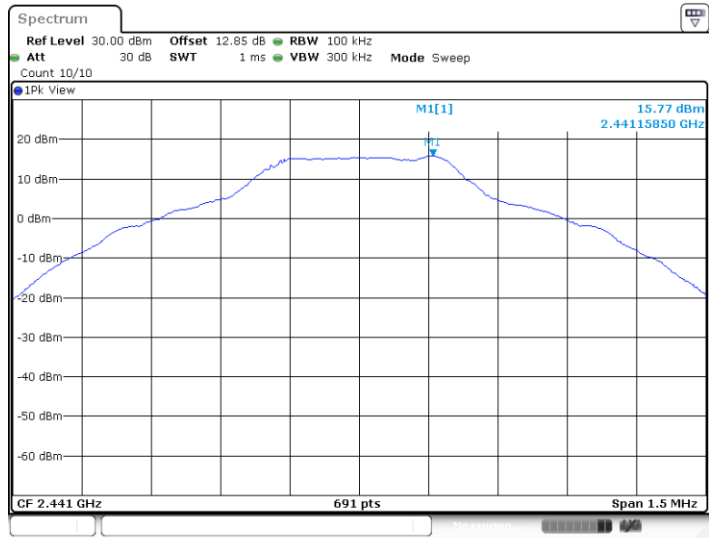


DH5\_Ant9\_2441\_1000~26500



Date: 13.JAN.2023 14:59:51

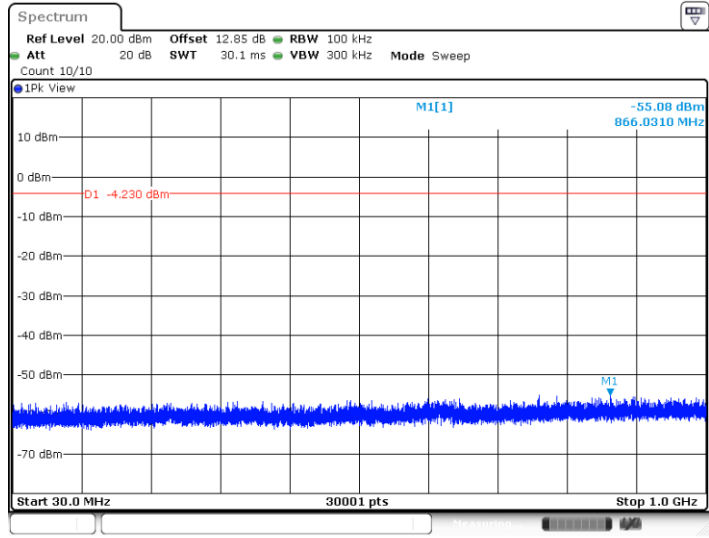
DH5\_Ant10\_2441\_0~Reference



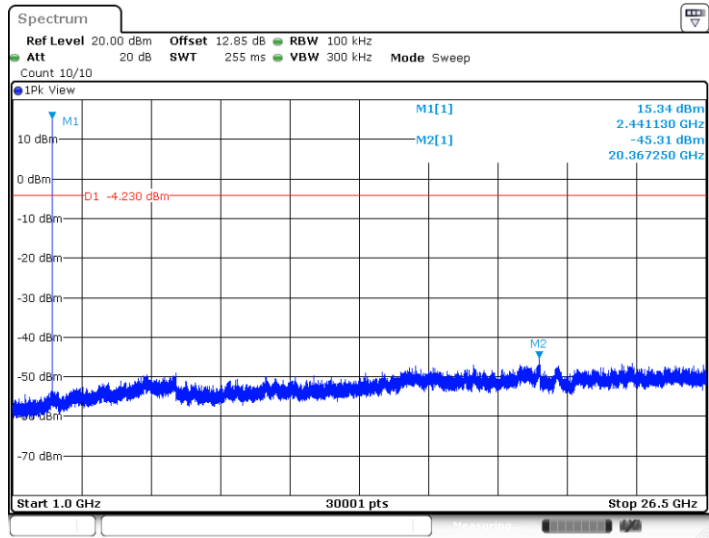
Date: 12.JAN.2023 16:12:12



DH5\_Ant10\_2441\_30~1000

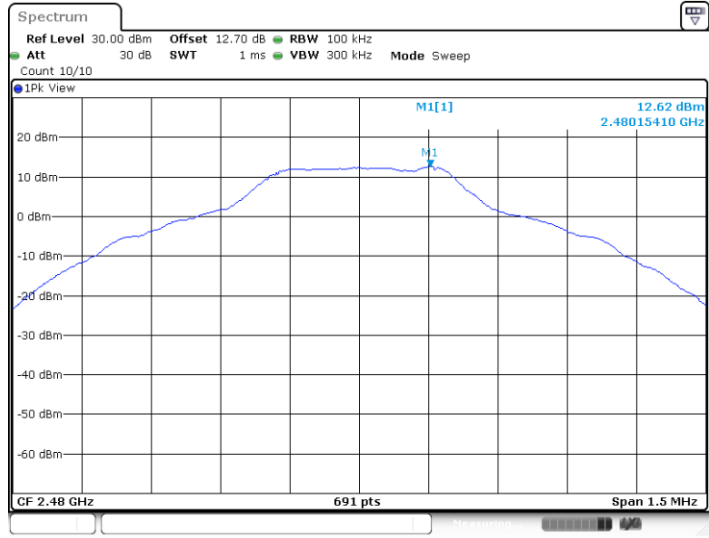


DH5\_Ant10\_2441\_1000~26500



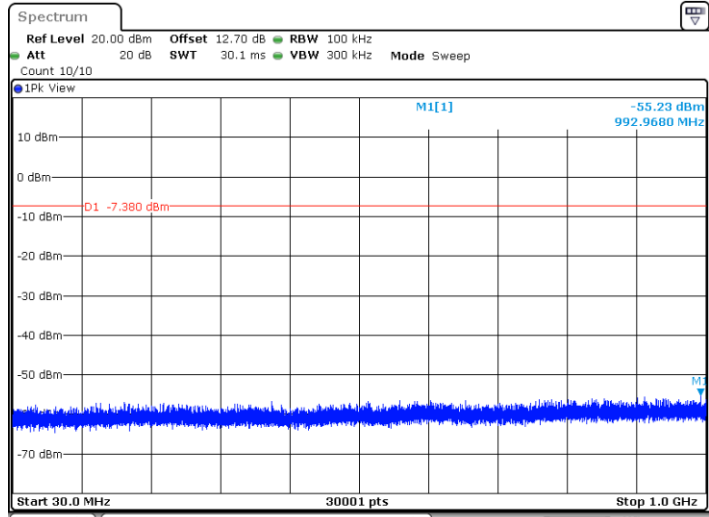


DH5\_Ant9\_2480\_0~Reference



Date: 13.JAN.2023 15:00:50

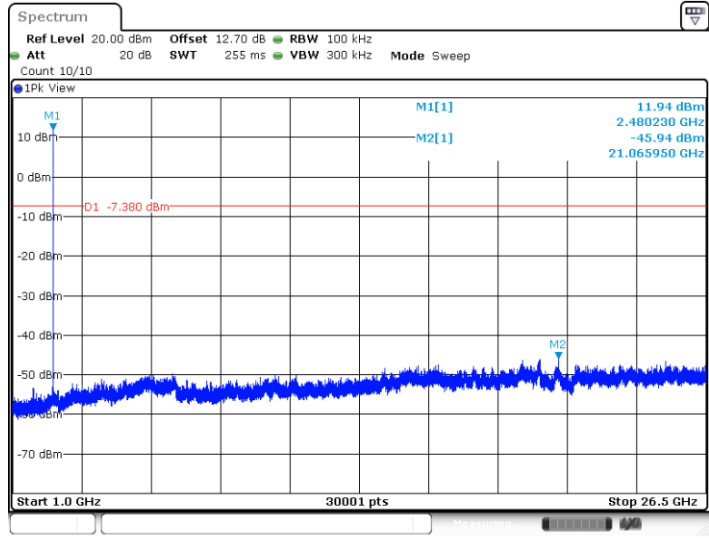
DH5\_Ant9\_2480\_30~1000



Date: 13.JAN.2023 15:00:56

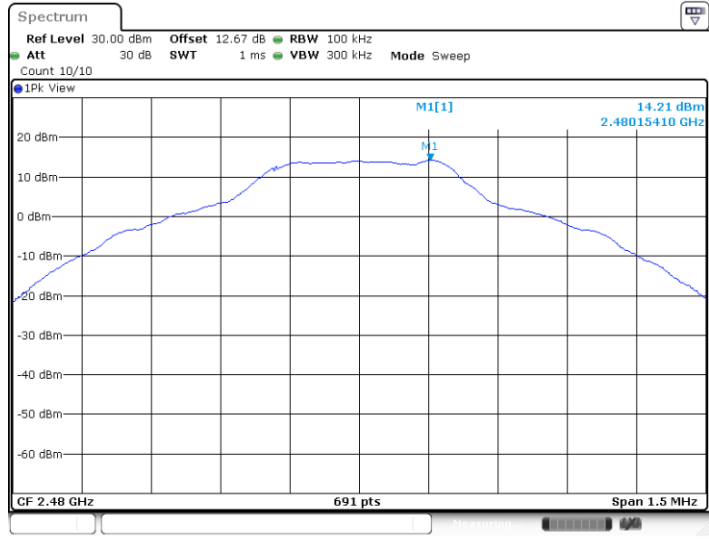


DH5\_Ant9\_2480\_1000~26500



Date: 13.JAN.2023 15:01:33

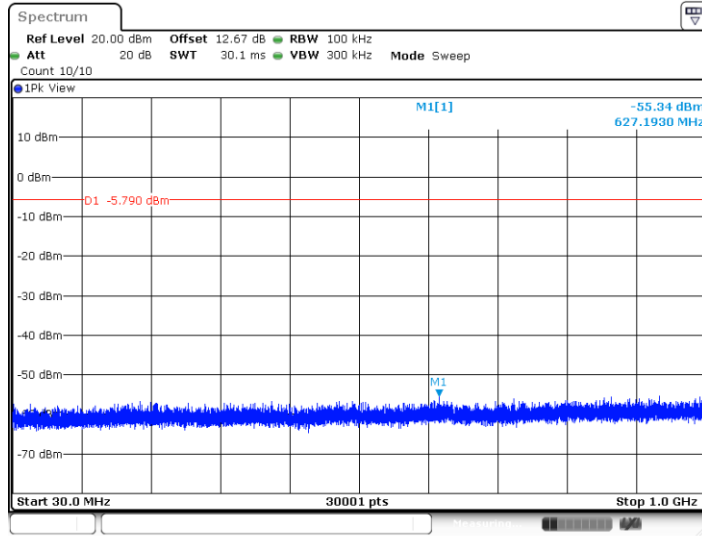
DH5\_Ant10\_2480\_0~Reference



Date: 12.JAN.2023 16:13:55

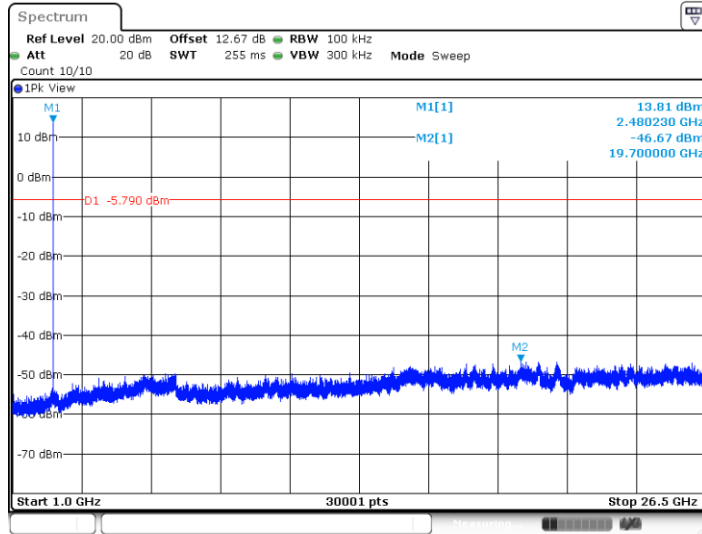


DH5\_Ant10\_2480\_30~1000



Date: 12.JAN.2023 16:14:01

DH5\_Ant10\_2480\_1000~26500

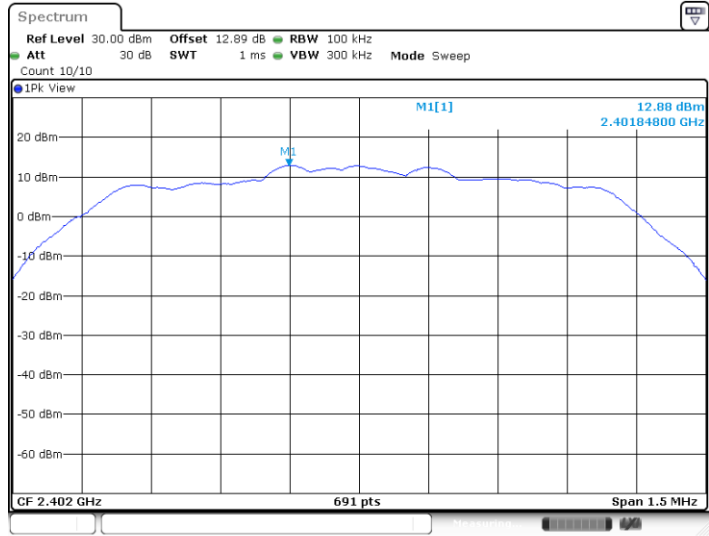


Date: 12.JAN.2023 16:14:38



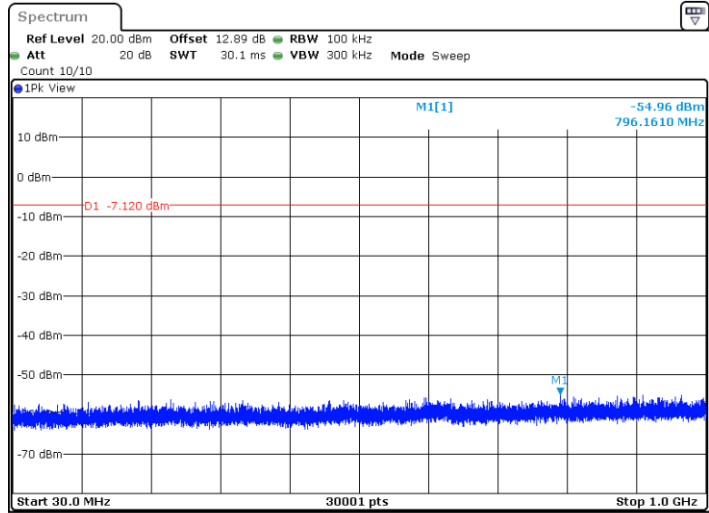


2DH1\_Ant9\_2402\_0~Reference



Date: 13.JAN.2023 15:04:15

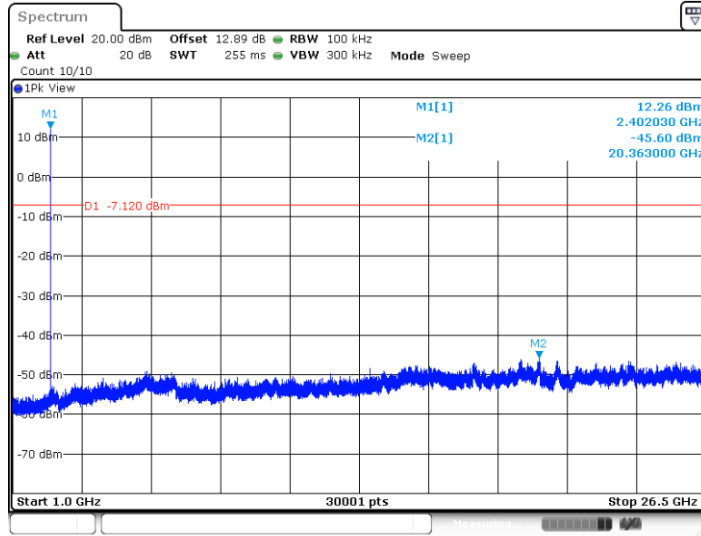
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Date: 13.JAN.2023 15:04:22

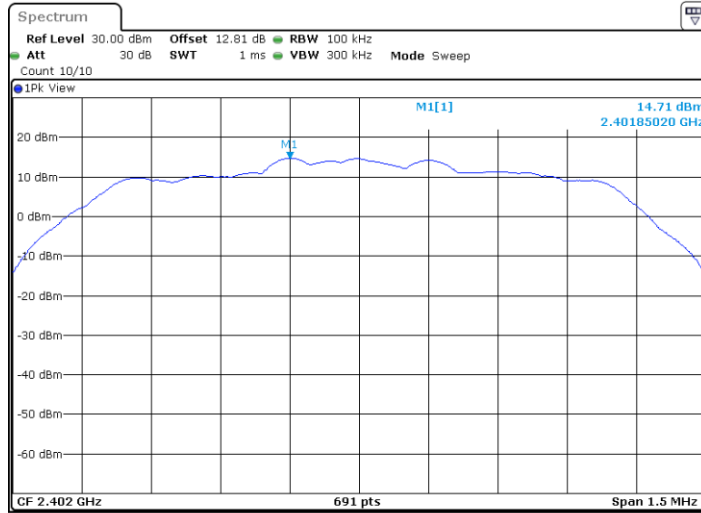


2DH1\_Ant9\_2402\_1000~26500

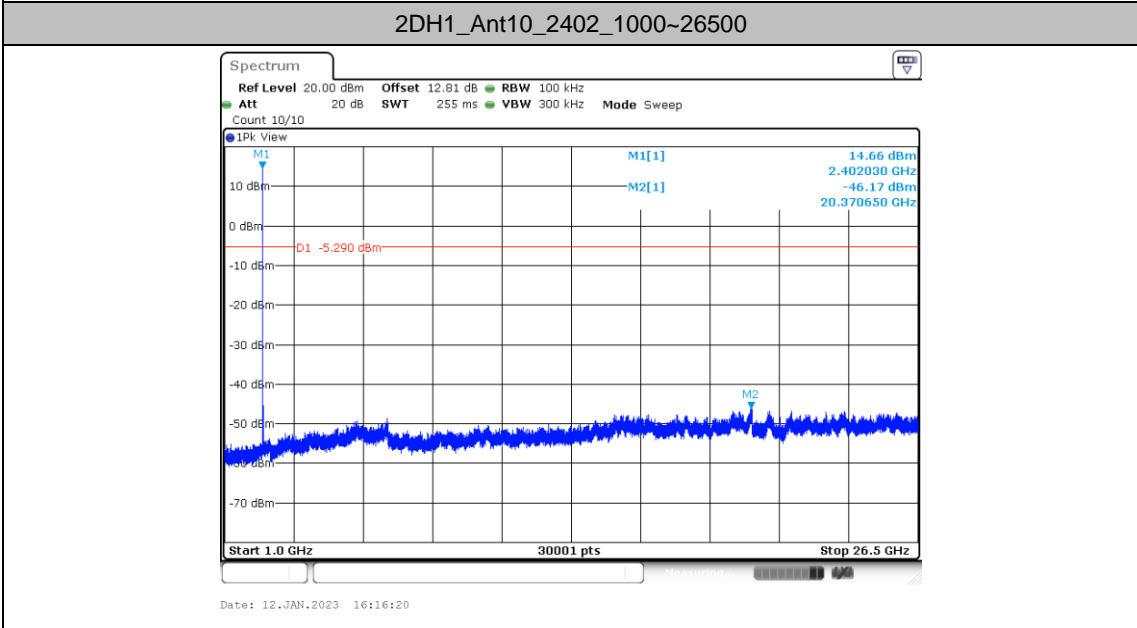
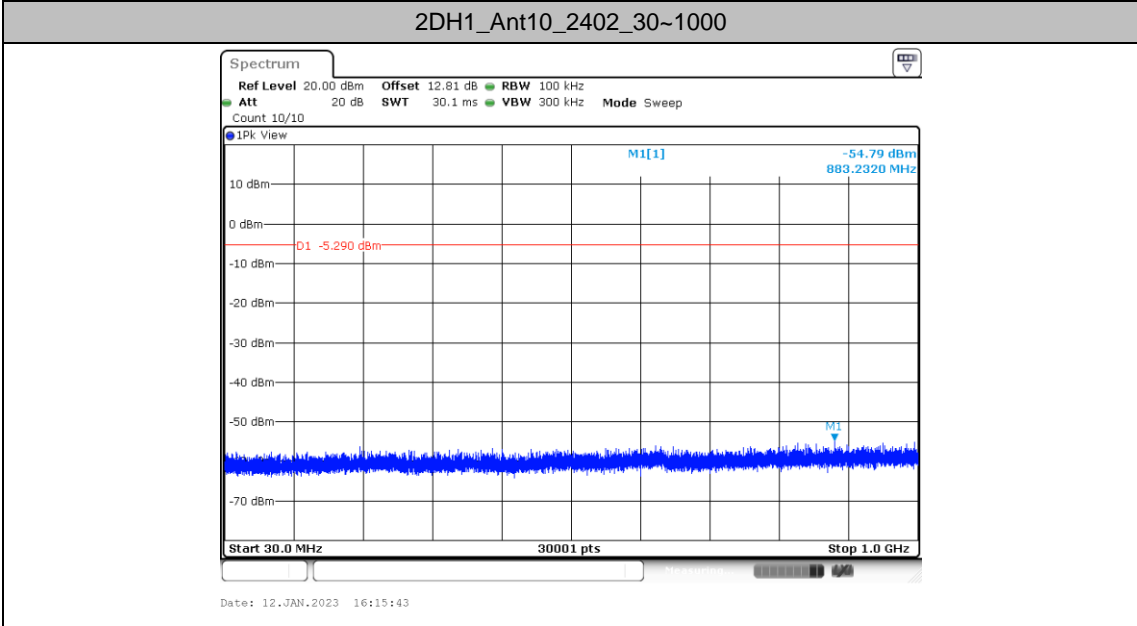


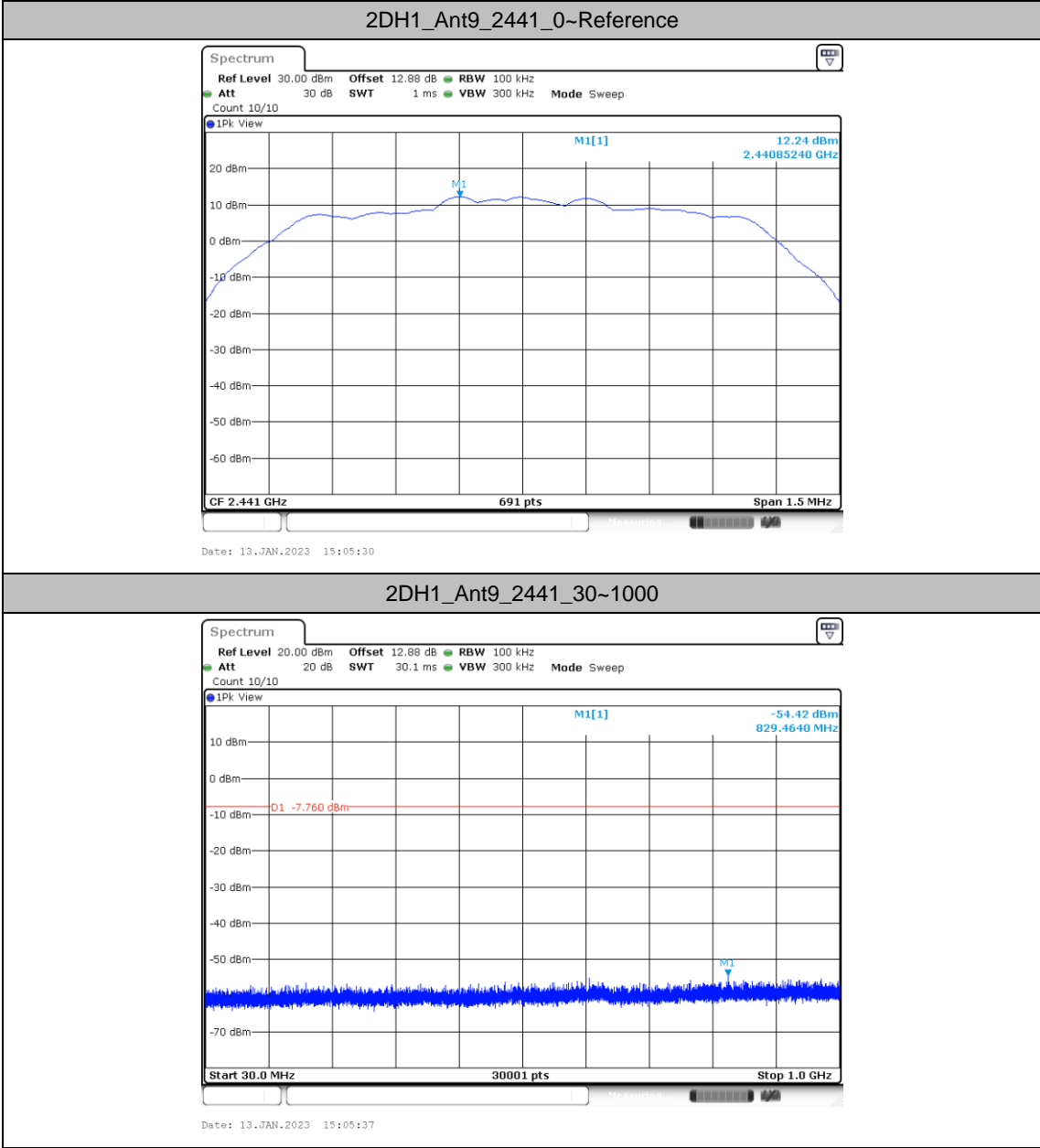
Date: 13.JAN.2023 15:04:59

2DH1\_Ant10\_2402\_0~Reference



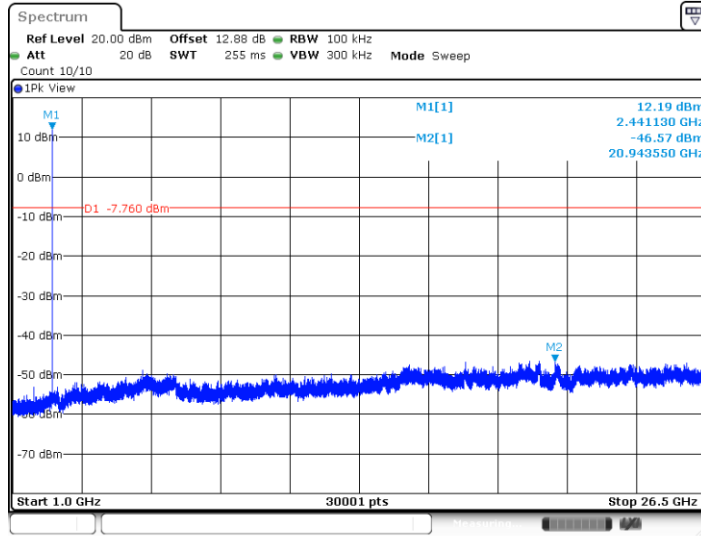
Date: 12.JAN.2023 16:15:37





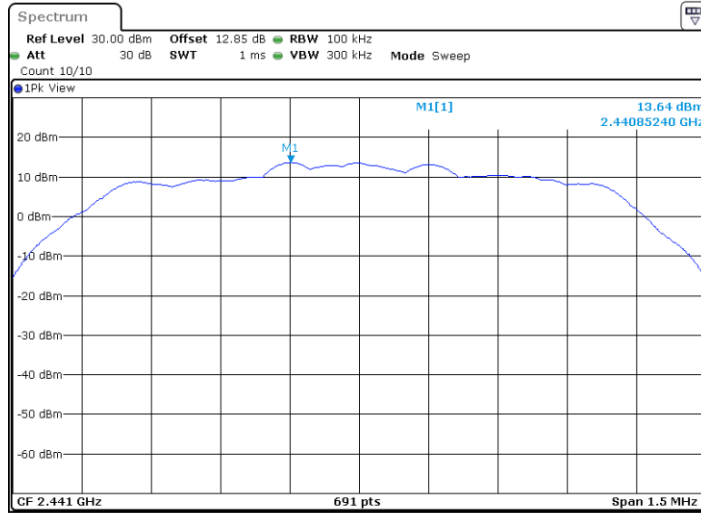


2DH1\_Ant9\_2441\_1000~26500

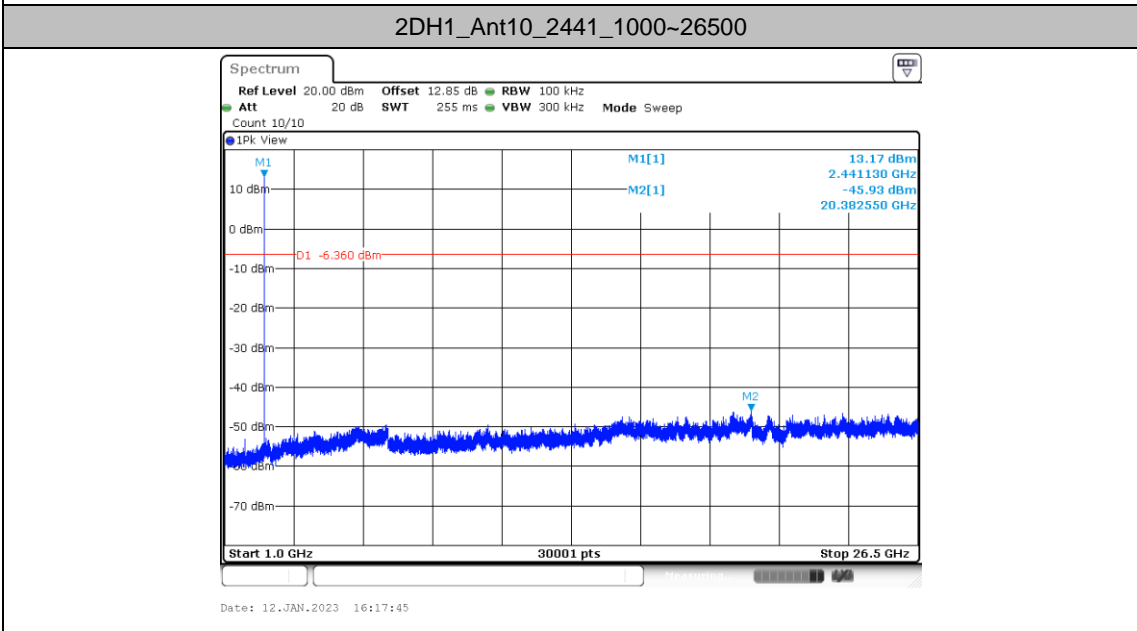
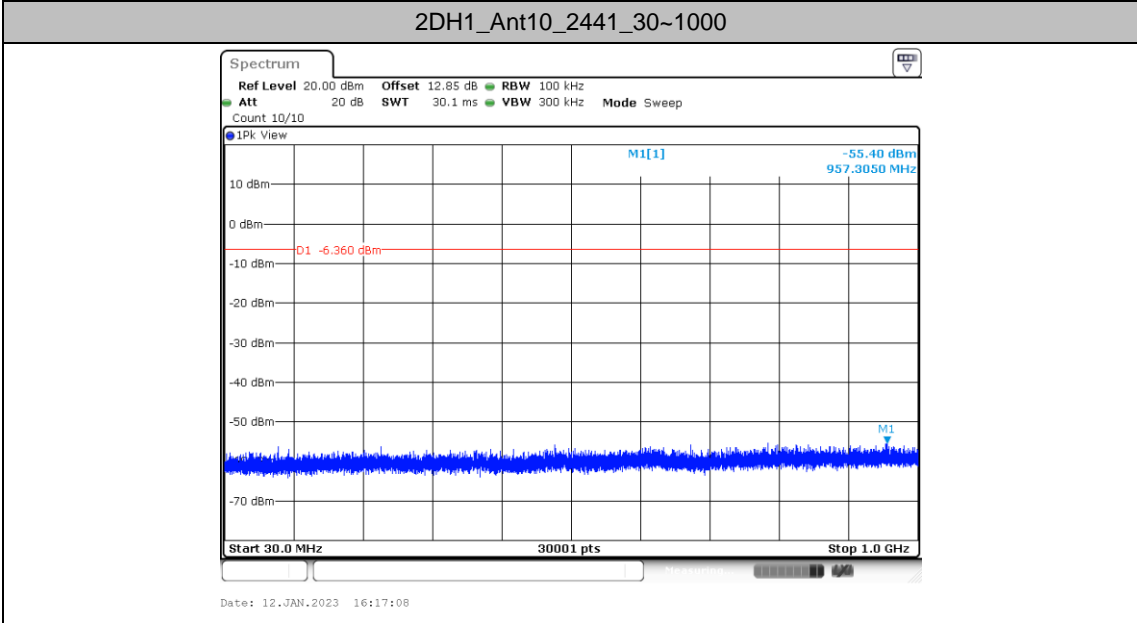


Date: 13.JAN.2023 15:06:14

2DH1\_Ant10\_2441\_0~Reference

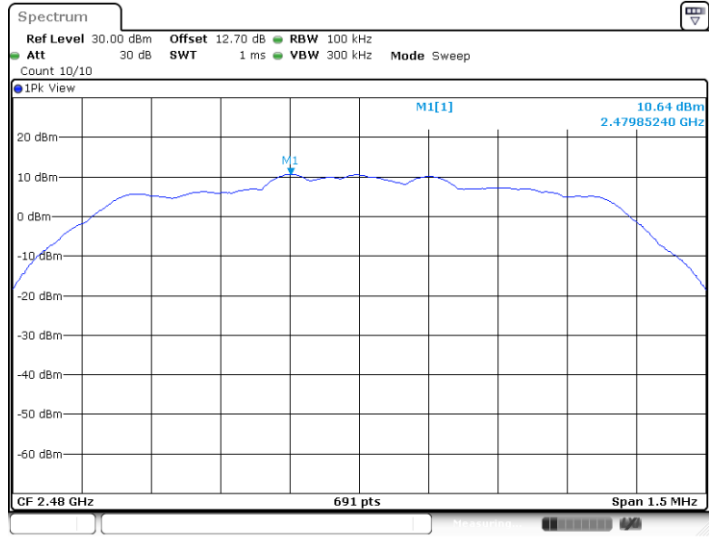


Date: 12.JAN.2023 16:17:01



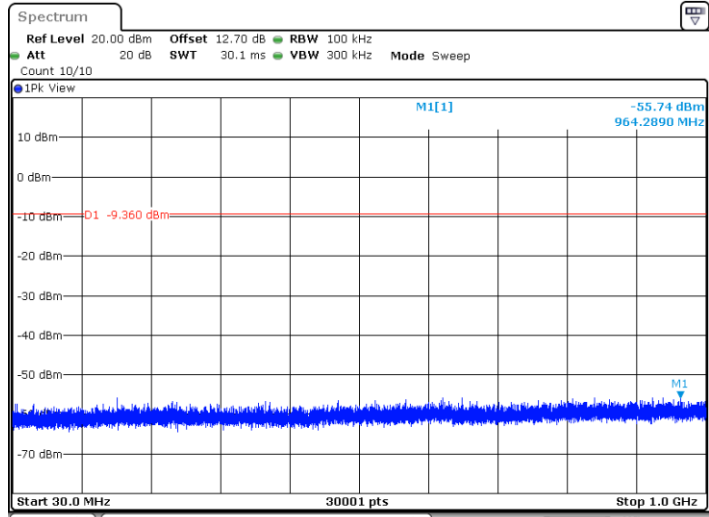


2DH1\_Ant9\_2480\_0~Reference



Date: 13.JAN.2023 15:07:07

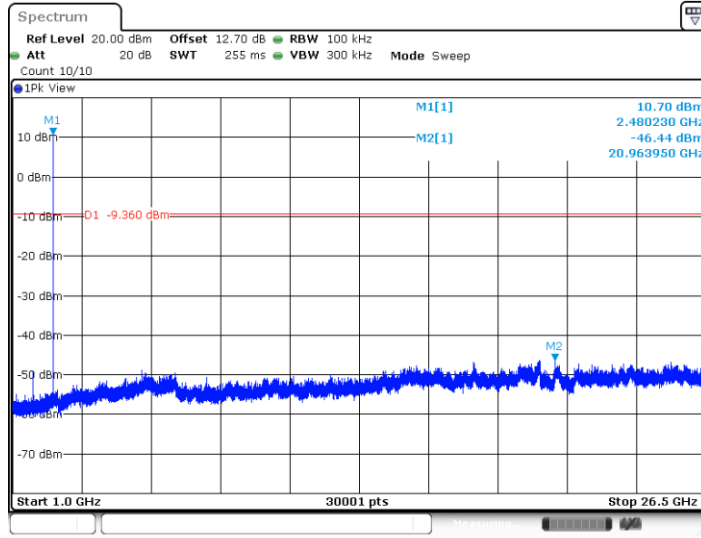
2DH1\_Ant9\_2480\_30~1000



Date: 13.JAN.2023 15:07:13

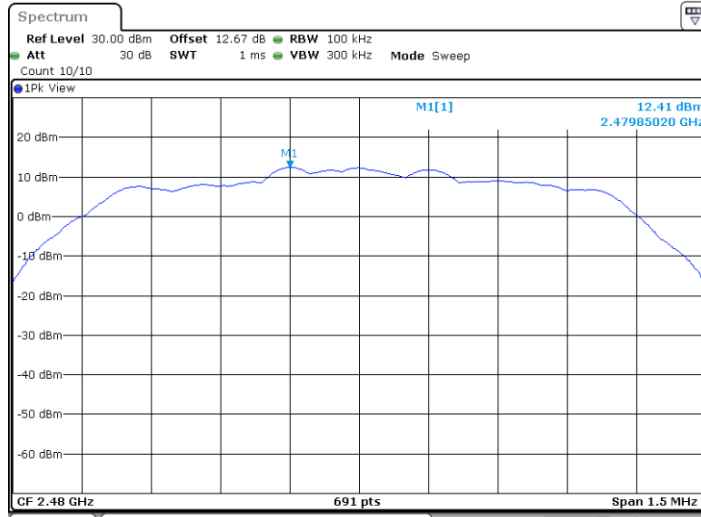


2DH1\_Ant9\_2480\_1000~26500



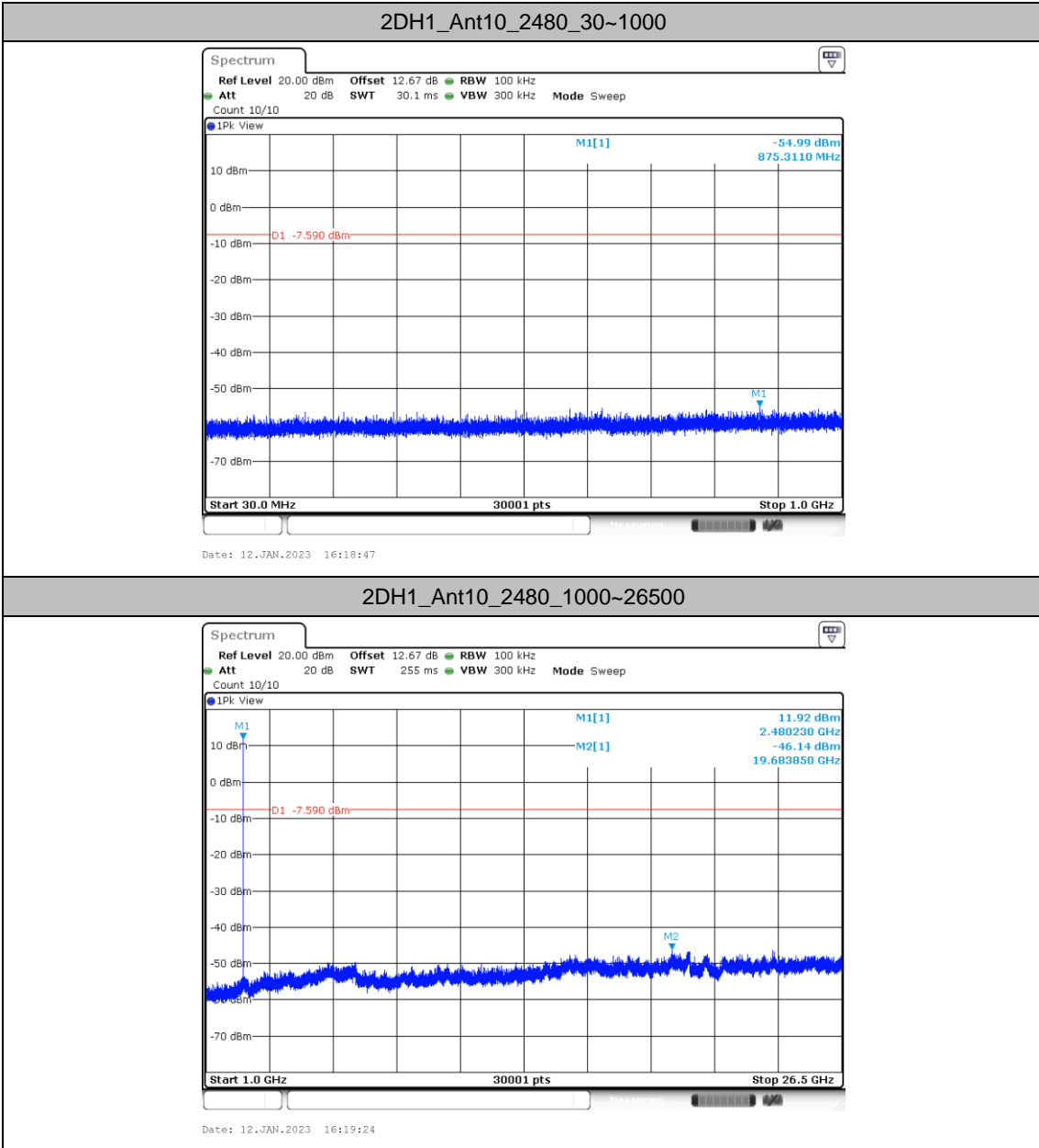
Date: 13.JAN.2023 15:07:50

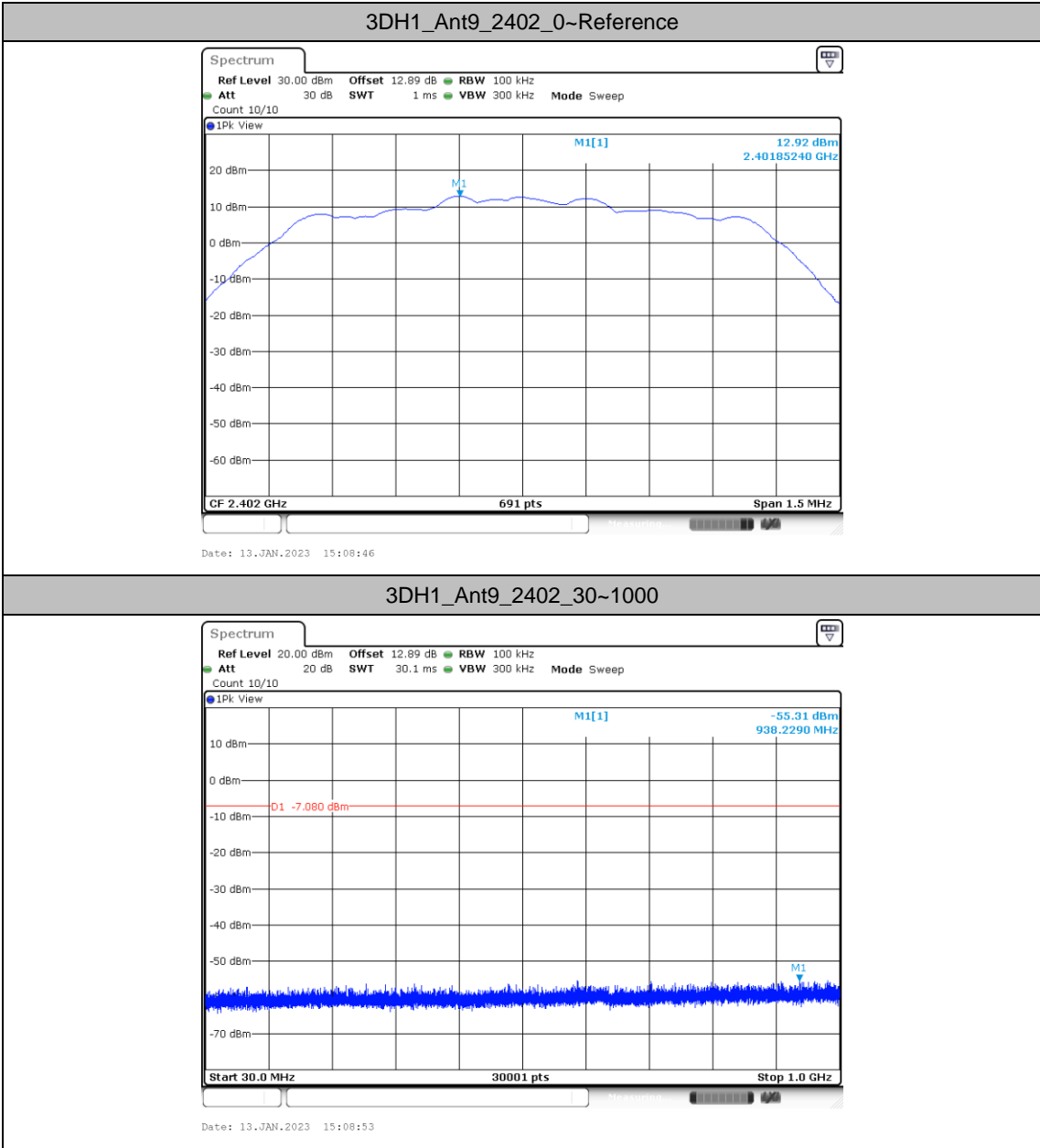
2DH1\_Ant10\_2480\_0~Reference



Date: 12.JAN.2023 16:18:41

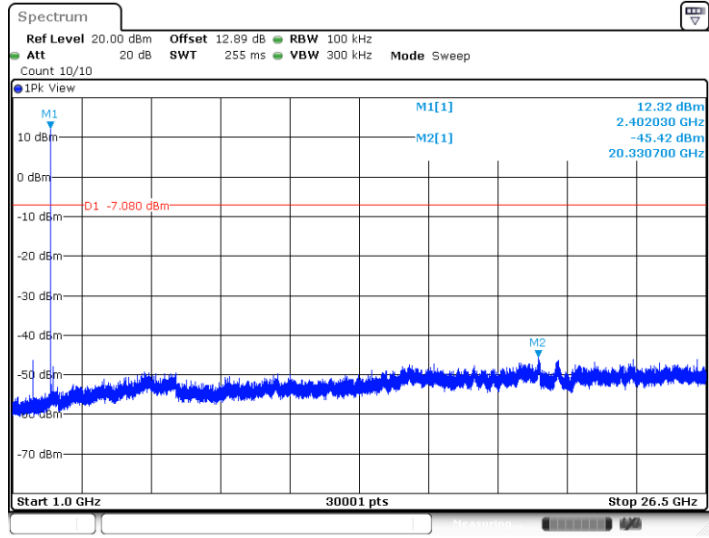






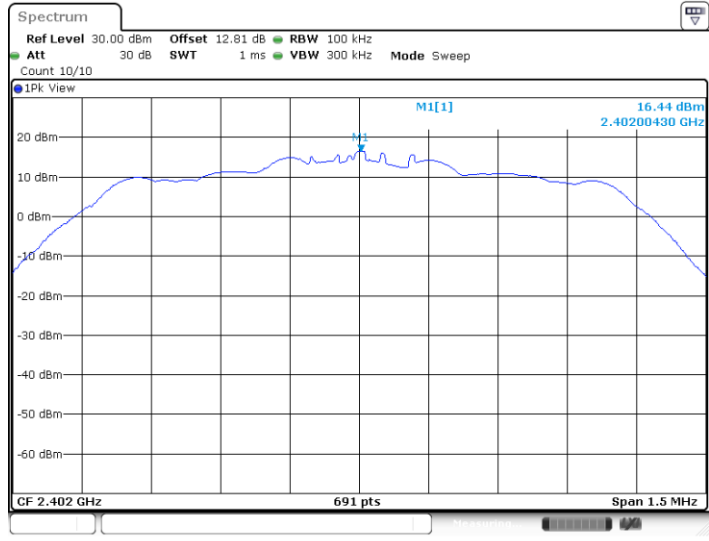


3DH1\_Ant9\_2402\_1000~26500

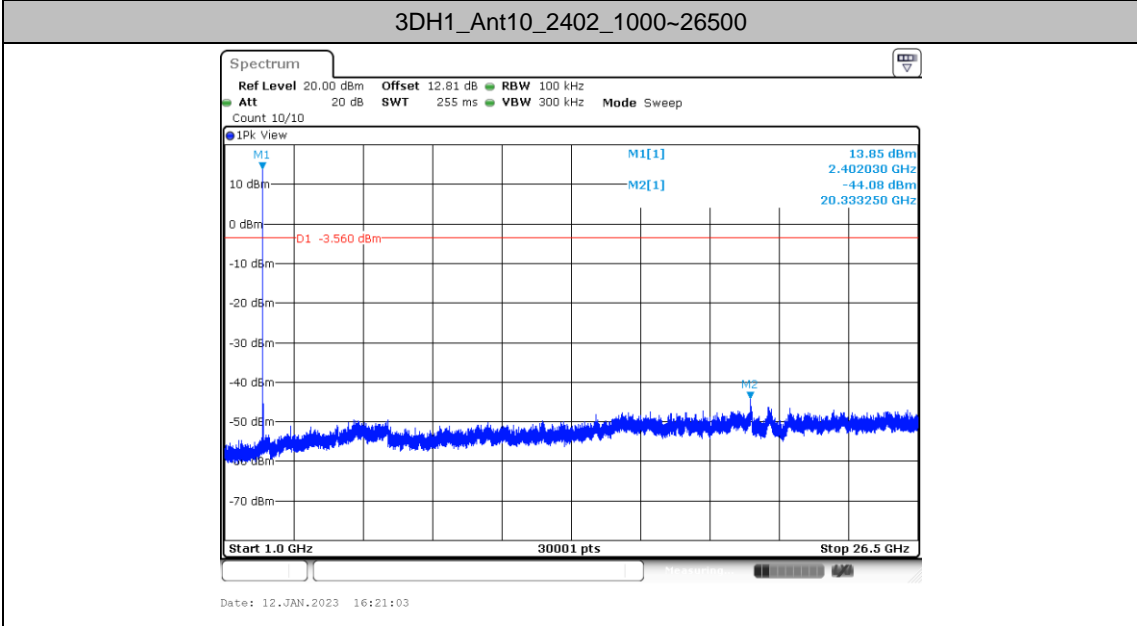
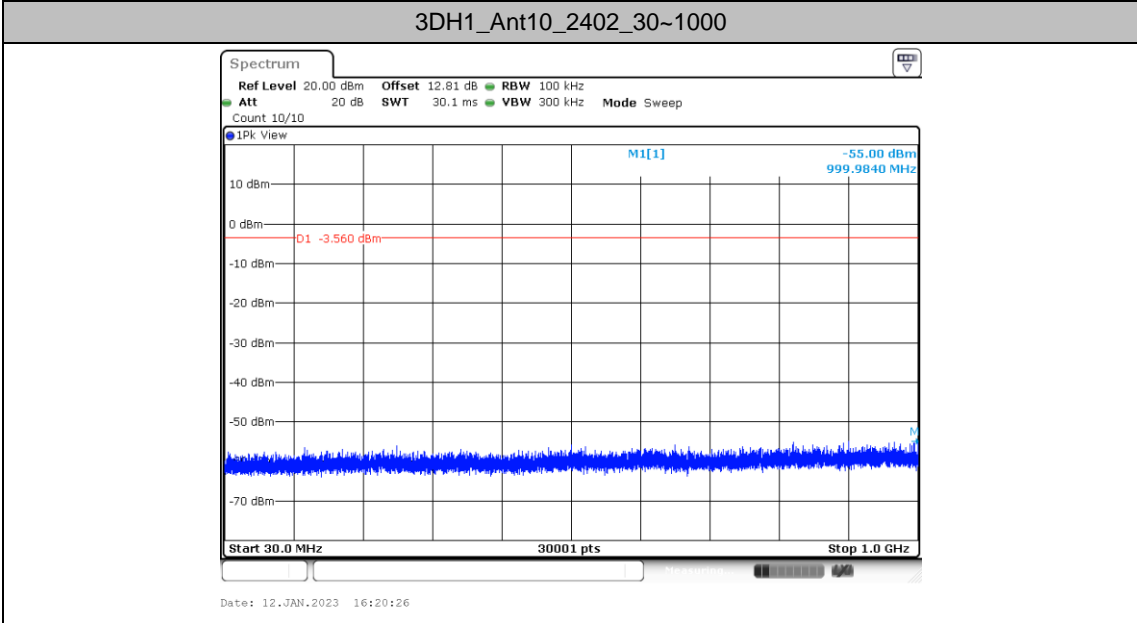


Date: 13.JAN.2023 15:09:30

3DH1\_Ant10\_2402\_0~Reference

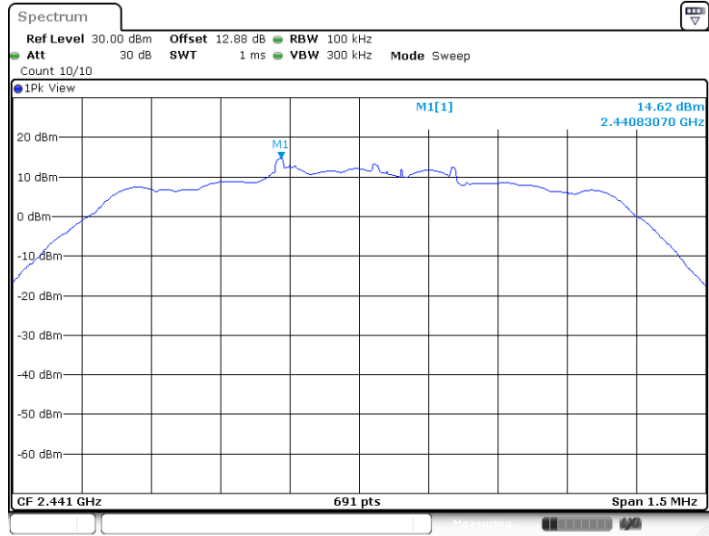


Date: 12.JAN.2023 16:20:20



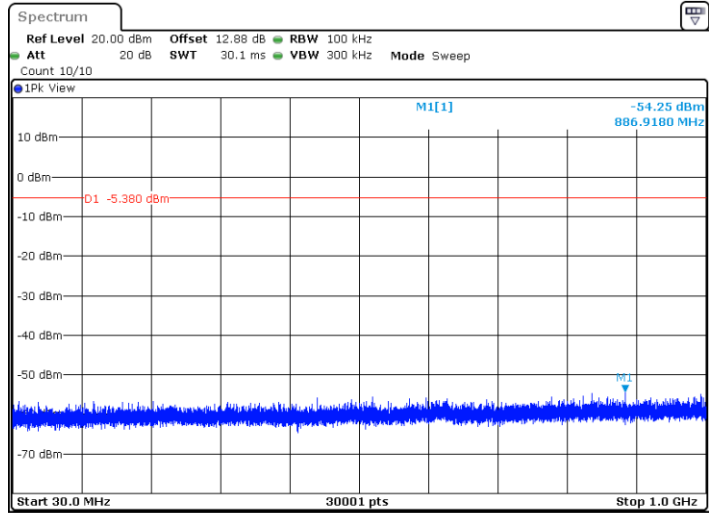


3DH1\_Ant9\_2441\_0~Reference



Date: 13.JAN.2023 15:10:07

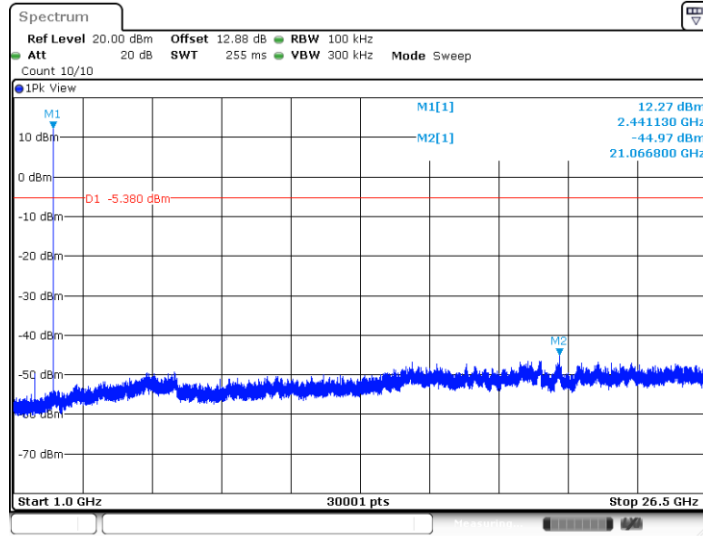
3DH1\_Ant9\_2441\_30~1000



Date: 13.JAN.2023 15:10:14

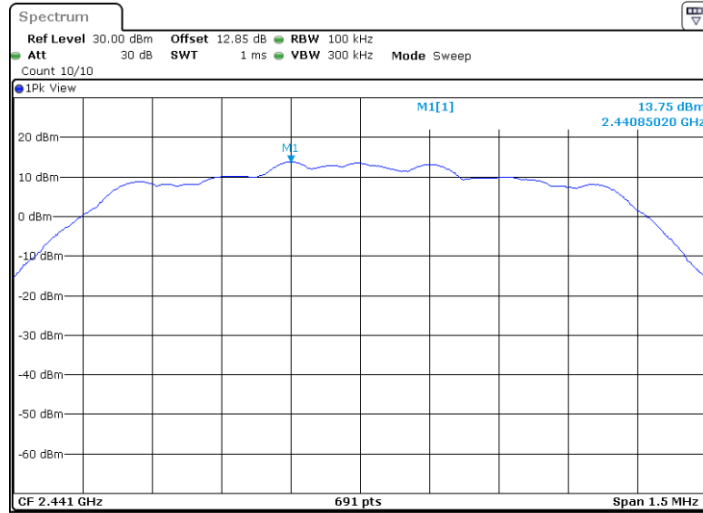


3DH1\_Ant9\_2441\_1000~26500

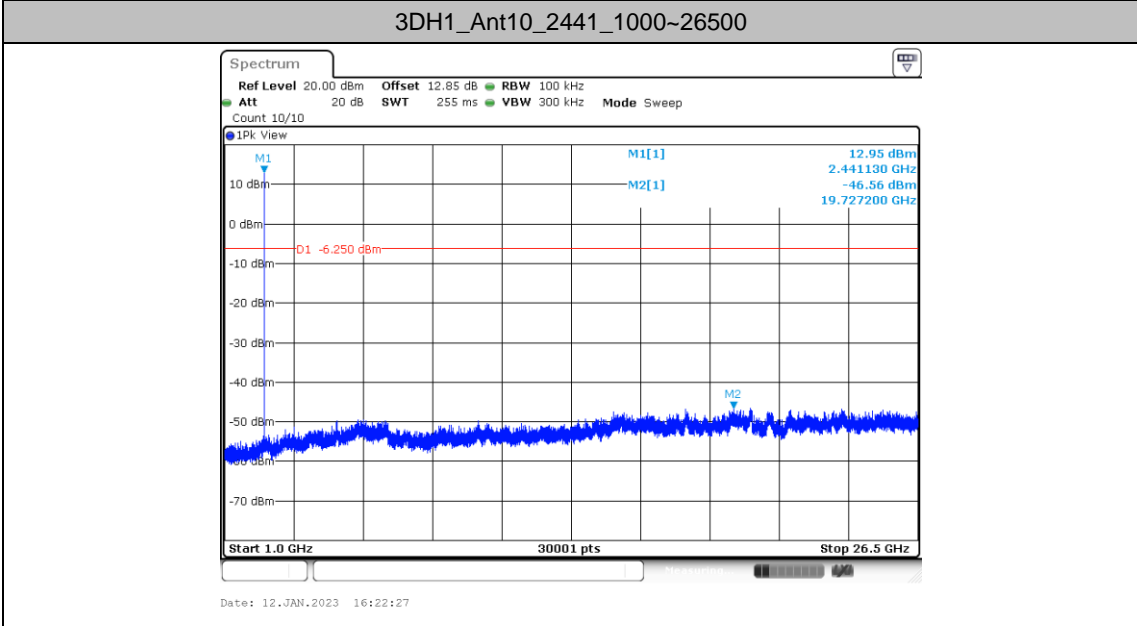
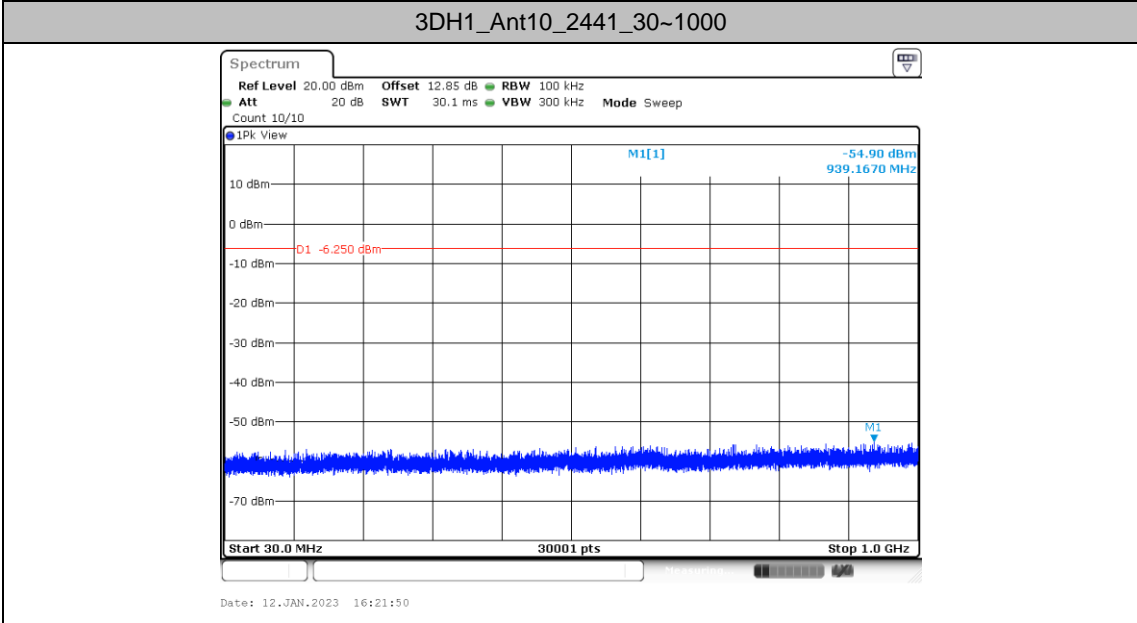


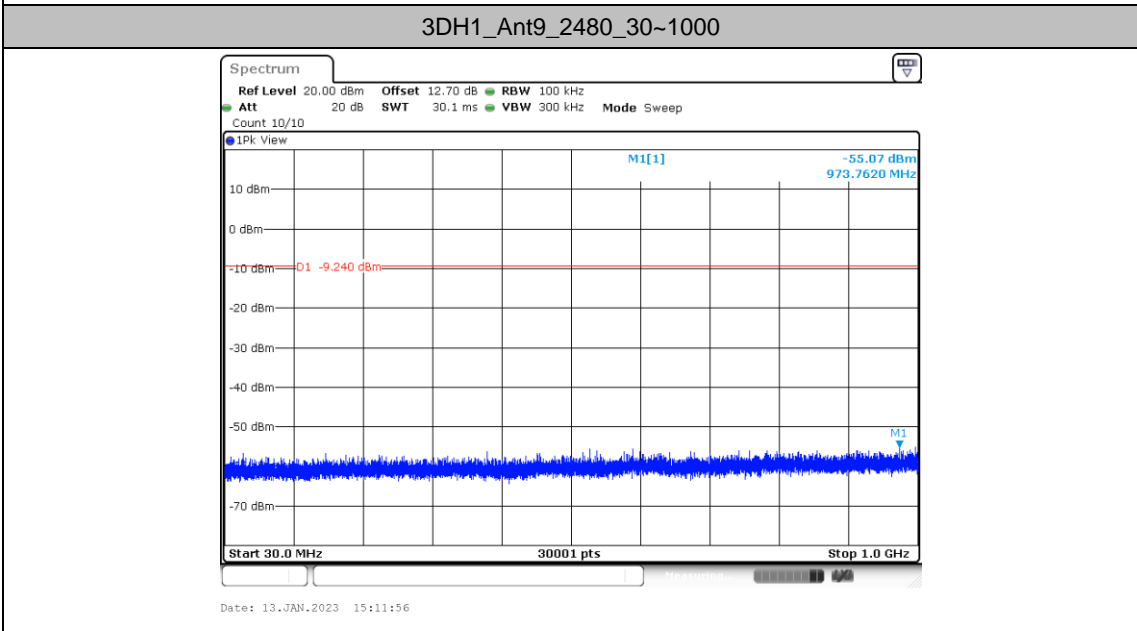
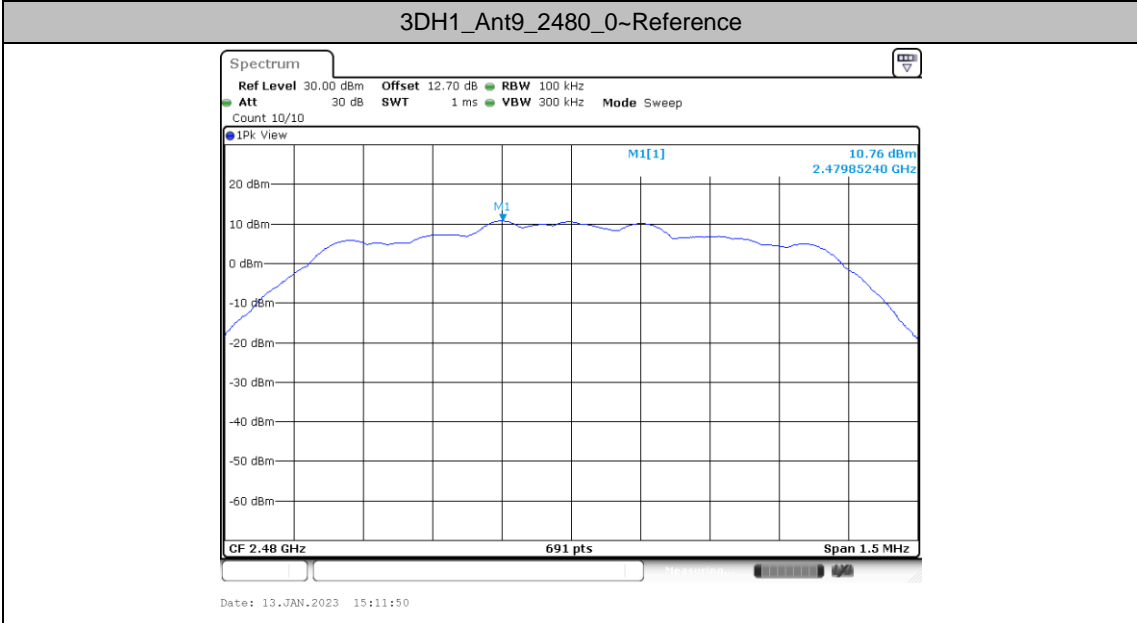
Date: 13.JAN.2023 15:10:51

3DH1\_Ant10\_2441\_0~Reference



Date: 12.JAN.2023 16:21:44

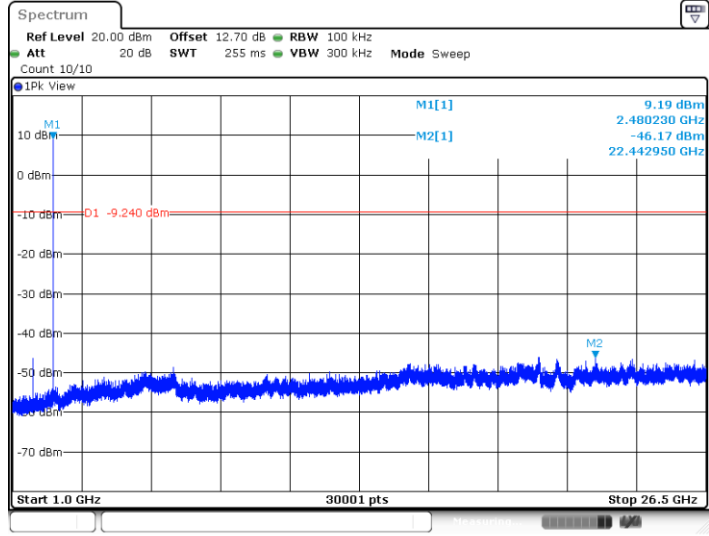






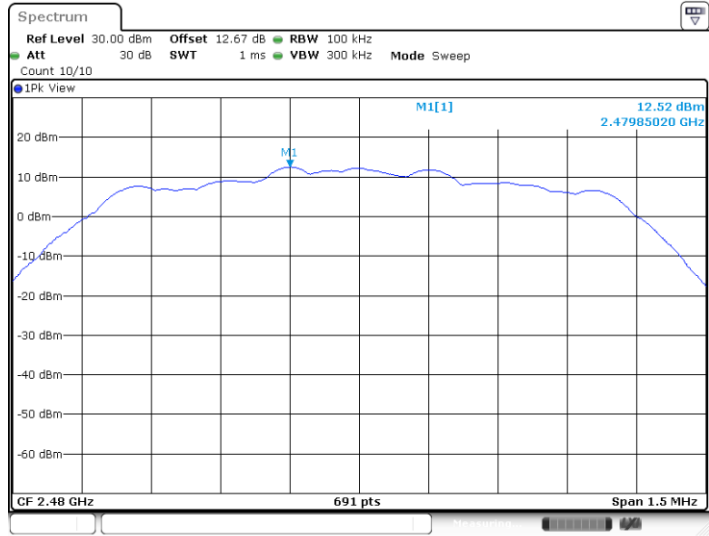


3DH1\_Ant9\_2480\_1000~26500

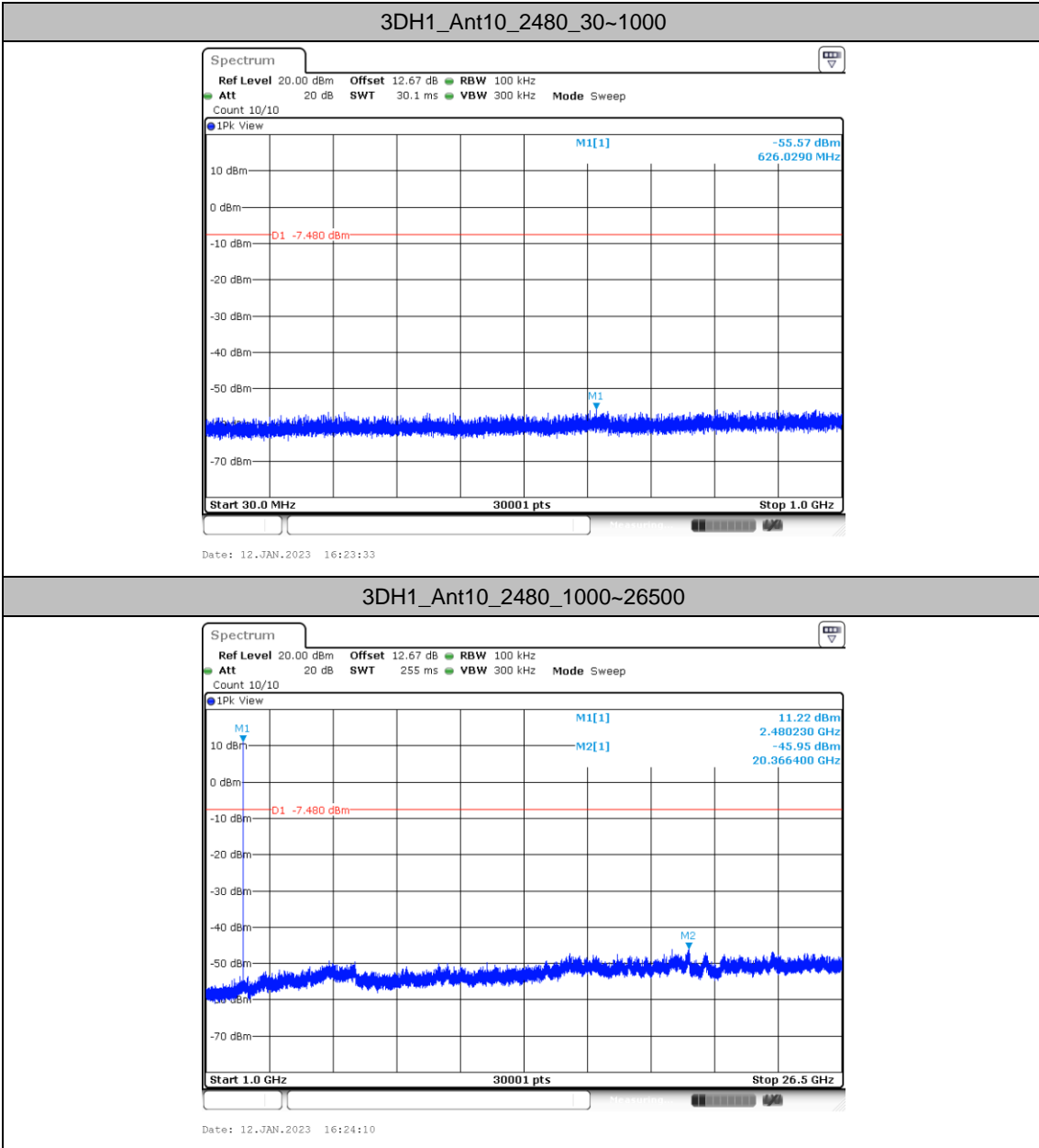


Date: 13.JAN.2023 15:12:33

3DH1\_Ant10\_2480\_0~Reference



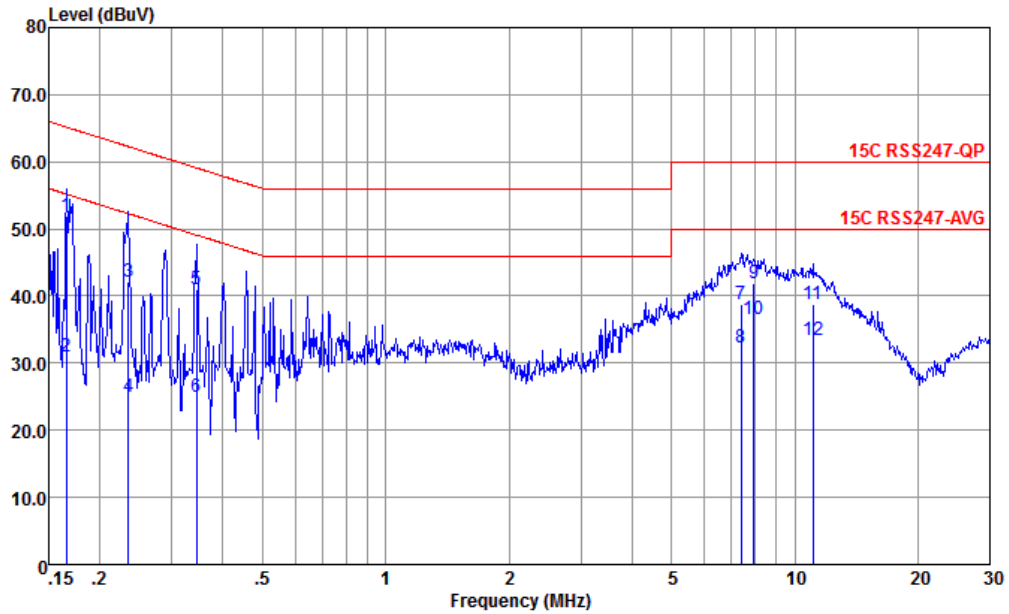
Date: 12.JAN.2023 16:23:26





## 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.		

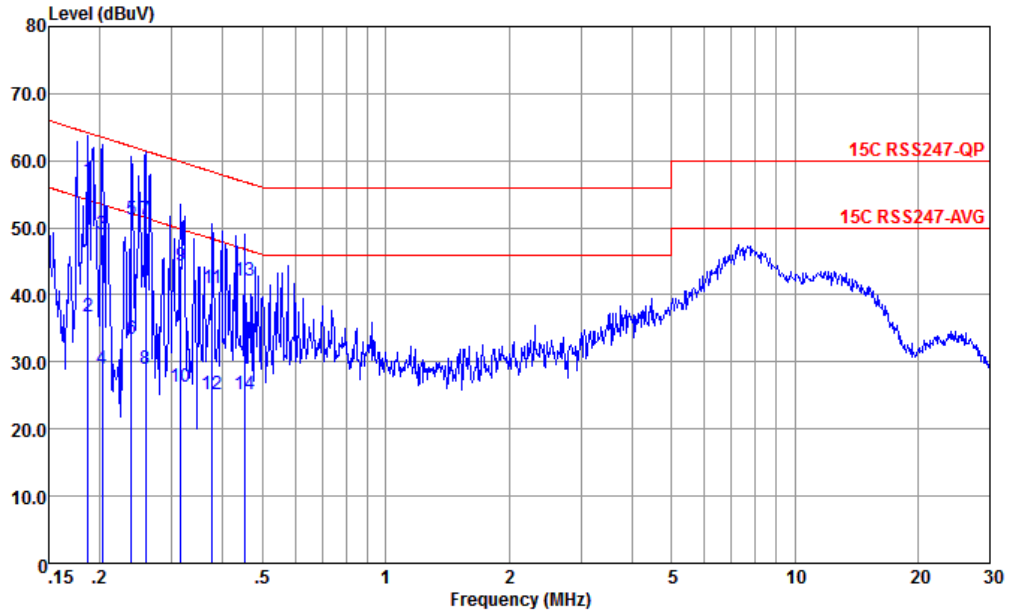


Site : CO01-KS  
 Condition : 15C RSS247-QP LISN-060103-L LINE

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.166	51.89	-13.27	65.16	41.19	0.27	10.43	QP
2	0.166	30.99	-24.17	55.16	20.29	0.27	10.43	Average
3	0.235	42.19	-20.07	62.26	31.50	0.30	10.39	QP
4	0.235	24.89	-27.37	52.26	14.20	0.30	10.39	Average
5	0.345	41.09	-18.00	59.09	30.49	0.27	10.33	QP
6	0.345	24.89	-24.20	49.09	14.29	0.27	10.33	Average
7	7.407	38.86	-21.14	60.00	28.20	0.35	10.31	QP
8	7.407	32.26	-17.74	50.00	21.60	0.35	10.31	Average
9	7.935	41.84	-18.16	60.00	31.10	0.35	10.39	QP
10	7.935	36.54	-13.46	50.00	25.80	0.35	10.39	Average
11	11.080	38.76	-21.24	60.00	27.49	0.43	10.84	QP
12	11.080	33.46	-16.54	50.00	22.19	0.43	10.84	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-060103-N NEUTRAL

	Freq	Level	Over	Limit	Read	LISN	Cable	Remark
	MHz	dBuV	Limit	Line	Level	Factor	Loss	
			dB	dBuV	dBuV	dB	dB	
1 *	0.187	57.04	-7.11	64.15	46.30	0.32	10.42	QP
2	0.187	36.84	-17.31	54.15	26.10	0.32	10.42	Average
3	0.203	48.94	-14.55	63.49	38.20	0.32	10.42	QP
4	0.203	28.94	-24.55	53.49	18.20	0.32	10.42	Average
5	0.239	51.32	-10.81	62.13	40.60	0.33	10.39	QP
6	0.239	33.32	-18.81	52.13	22.60	0.33	10.39	Average
7	0.259	51.21	-10.26	61.47	40.50	0.33	10.38	QP
8	0.259	28.91	-22.56	51.47	18.20	0.33	10.38	Average
9	0.315	44.27	-15.57	59.84	33.60	0.33	10.34	QP
10	0.315	26.27	-23.57	49.84	15.60	0.33	10.34	Average
11	0.377	41.09	-17.25	58.34	30.50	0.28	10.31	QP
12	0.377	25.19	-23.15	48.34	14.60	0.28	10.31	Average
13	0.452	42.03	-14.82	56.85	31.50	0.28	10.25	QP
14	0.452	25.13	-21.72	46.85	14.60	0.28	10.25	Average

Note:

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



### Appendix C. Radiated Spurious Emission Test Data

Test Engineer :	Carry Xu	Relative Humidity :	22~23℃
		Temperature :	41~42%

### Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	Remark
Mode 1	2400-2483.5	9	Bluetooth BR_GFSK	00	2402	1Mbps	-
Mode 2	2400-2483.5	9	Bluetooth BR_GFSK	39	2441	1Mbps	-
Mode 3	2400-2483.5	9	Bluetooth BR_GFSK	78	2480	1Mbps	-
Mode 4	2400-2483.5	10	Bluetooth BR_GFSK	00	2402	1Mbps	-
Mode 5	2400-2483.5	10	Bluetooth BR_GFSK	39	2441	1Mbps	-
Mode 6	2400-2483.5	10	Bluetooth BR_GFSK	78	2480	1Mbps	-
Mode 7	2400-2483.5	10	Bluetooth BR_GFSK	78	-	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	2333.40	56.02	74.00	-17.98	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	40.04	74.00	-33.96	V	PEAK	Pass	Harmonic
2	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	44.93	74.00	-29.07	H	PEAK	Pass	Harmonic
3	Bluetooth BR_GFSK	78	2490.86	55.94	74.00	-18.06	H	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	44.89	74.00	-29.11	V	PEAK	Pass	Harmonic
4	Bluetooth BR_GFSK	00	2364.73	55.37	74.00	-18.63	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	00	4804.00	41.59	74.00	-32.41	H	PEAK	Pass	Harmonic
5	Bluetooth BR_GFSK	39	-	-	-	-	-	-	-	Band Edge
	Bluetooth BR_GFSK	39	7323.00	45.03	74.00	-28.97	V	PEAK	Pass	Harmonic
6	Bluetooth BR_GFSK	78	2486.49	56.91	74.00	-17.09	V	PEAK	Pass	Band Edge
	Bluetooth BR_GFSK	78	7440.00	45.73	74.00	-28.27	V	PEAK	Pass	Harmonic
7	Bluetooth BR_GFSK	78	62.98	36.06	40	-3.94	V	PEAK	Pass	LF



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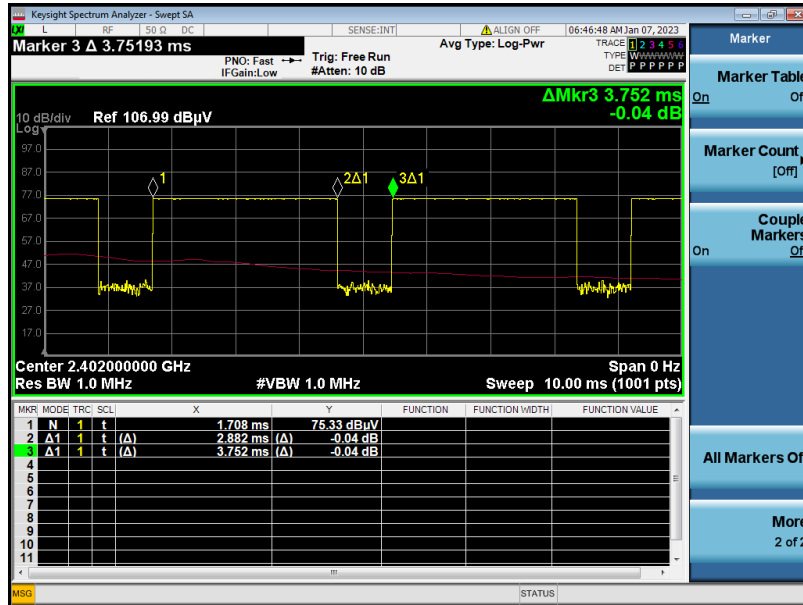
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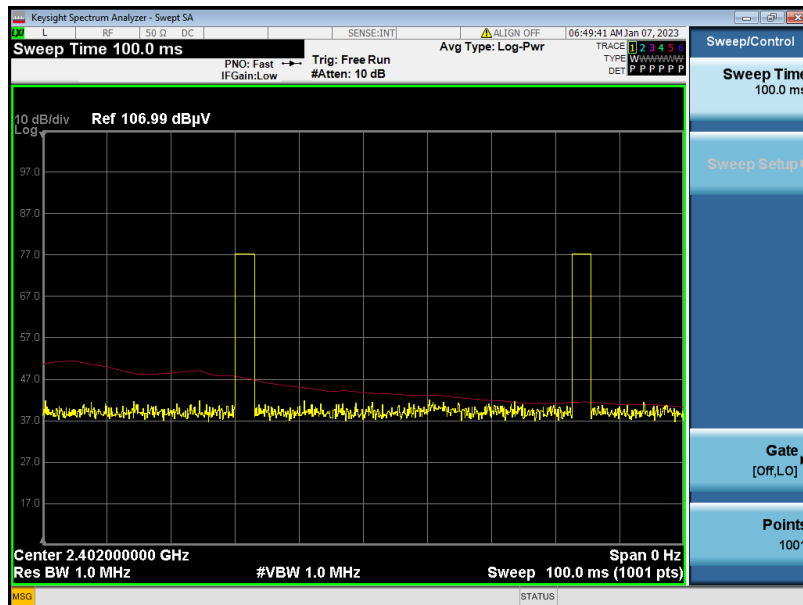
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## Appendix D. Duty Cycle Plots

### DH5 on time (One Pulse) Plot on Channel 39



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