
3DH5_Ant6_High_Hop_2480



Conducted Spurious Emission

Test Result

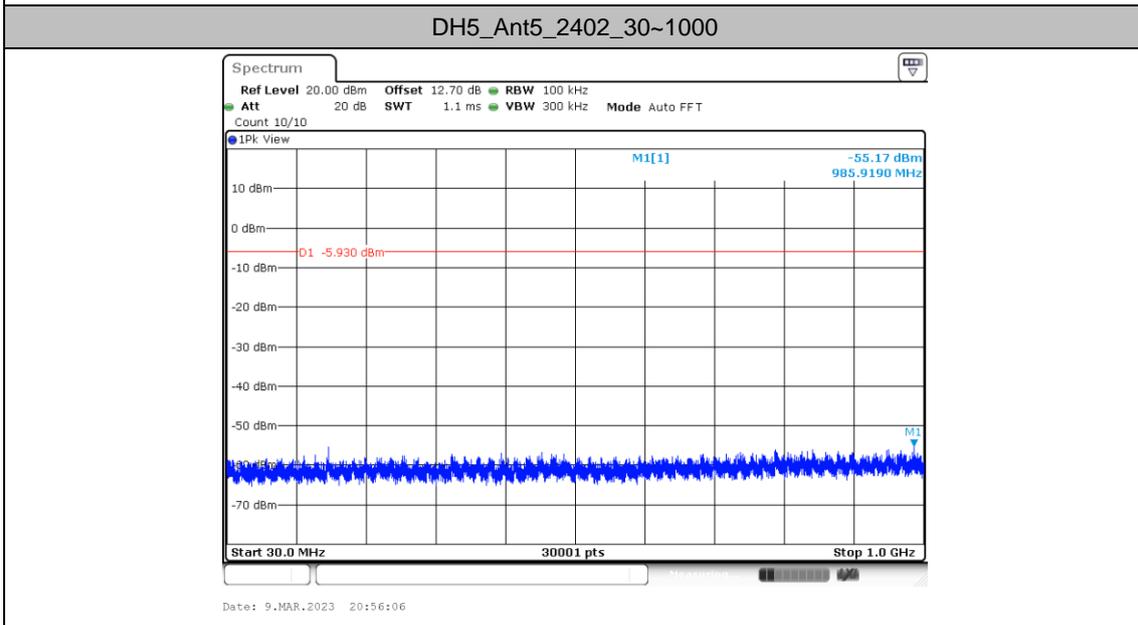
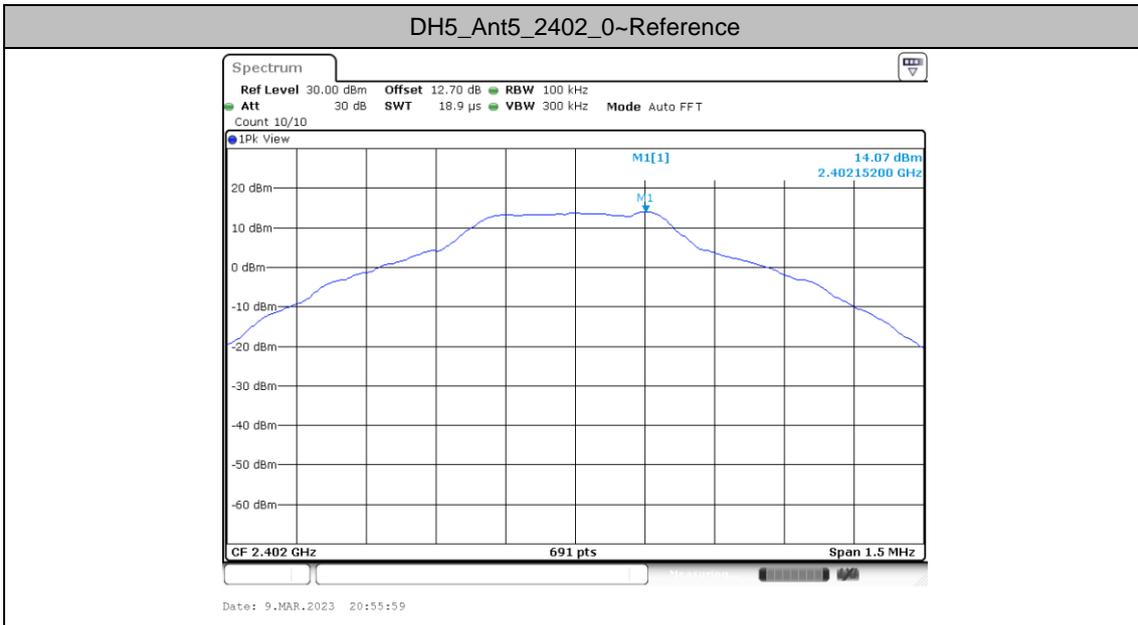
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict	
DH5	Ant5	2402	Reference	14.07	14.07	---	PASS	
			30~1000	14.07	-55.17	≤-5.93	PASS	
			1000~26500	14.07	-46.33	≤-5.93	PASS	
	Ant6	2402	Reference	11.83	11.83	---	PASS	
			30~1000	11.83	-54.72	≤-8.17	PASS	
			1000~26500	11.83	-45.76	≤-8.17	PASS	
	Ant5	2441	Reference	15.38	15.38	---	PASS	
			30~1000	15.38	-55.8	≤-4.62	PASS	
			1000~26500	15.38	-44.88	≤-4.62	PASS	
	Ant6	2441	Reference	11.86	11.86	---	PASS	
			30~1000	11.86	-55.23	≤-8.14	PASS	
			1000~26500	11.86	-46.28	≤-8.14	PASS	
	Ant5	2480	Reference	13.64	13.64	---	PASS	
			30~1000	13.64	-55.62	≤-6.36	PASS	
			1000~26500	13.64	-45.94	≤-6.36	PASS	
	Ant6	2480	Reference	9.42	9.42	---	PASS	
			30~1000	9.42	-55.54	≤-10.58	PASS	
			1000~26500	9.42	-45.89	≤-10.58	PASS	
	2DH5	Ant5	2402	Reference	10.92	10.92	---	PASS
				30~1000	10.92	-54.92	≤-9.08	PASS
				1000~26500	10.92	-45.53	≤-9.08	PASS
		Ant6	2402	Reference	8.49	8.49	---	PASS
				30~1000	8.49	-55.17	≤-11.51	PASS
				1000~26500	8.49	-45.67	≤-11.51	PASS
Ant5		2441	Reference	12.20	12.20	---	PASS	
			30~1000	12.20	-55.01	≤-7.8	PASS	
			1000~26500	12.20	-45.24	≤-7.8	PASS	
Ant6		2441	Reference	9.38	9.38	---	PASS	
			30~1000	9.38	-55.99	≤-10.62	PASS	
			1000~26500	9.38	-46.24	≤-10.62	PASS	
Ant5		2480	Reference	10.68	10.68	---	PASS	
			30~1000	10.68	-55.34	≤-9.32	PASS	
			1000~26500	10.68	-46.19	≤-9.32	PASS	



	Ant6	2480	Reference	6.42	6.42	---	PASS
			30~1000	6.42	-56.01	≤-13.58	PASS
			1000~26500	6.42	-46.13	≤-13.58	PASS
3DH5	Ant5	2402	Reference	11.02	11.02	---	PASS
			30~1000	11.02	-55.83	≤-8.98	PASS
			1000~26500	11.02	-46.03	≤-8.98	PASS
	Ant6	2402	Reference	8.60	8.60	---	PASS
			30~1000	8.60	-55.54	≤-11.4	PASS
			1000~26500	8.60	-45.78	≤-11.4	PASS
	Ant5	2441	Reference	12.33	12.33	---	PASS
			30~1000	12.33	-55.79	≤-7.67	PASS
			1000~26500	12.33	-46.51	≤-7.67	PASS
	Ant6	2441	Reference	9.00	9.00	---	PASS
			30~1000	9.00	-55.24	≤-11	PASS
			1000~26500	9.00	-45.55	≤-11	PASS
	Ant5	2480	Reference	10.77	10.77	---	PASS
			30~1000	10.77	-55.49	≤-9.23	PASS
			1000~26500	10.77	-45.74	≤-9.23	PASS
	Ant6	2480	Reference	6.50	6.50	---	PASS
			30~1000	6.50	-54.42	≤-13.5	PASS
			1000~26500	6.50	-45.39	≤-13.5	PASS

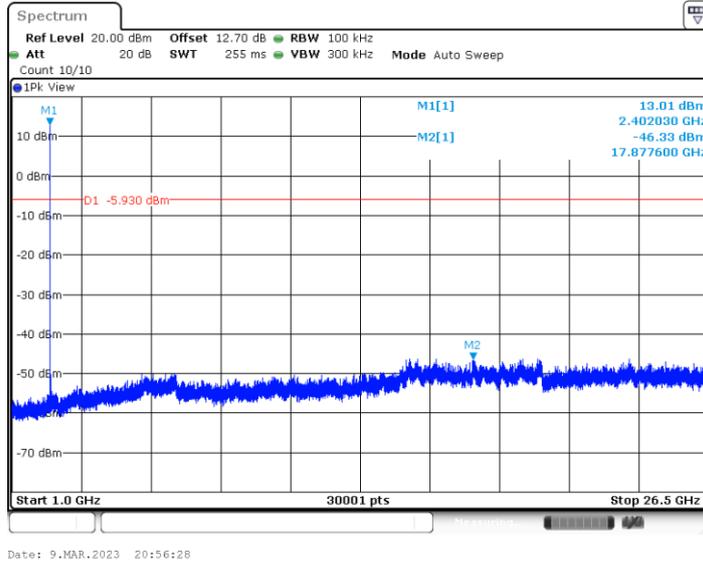


Test Graphs

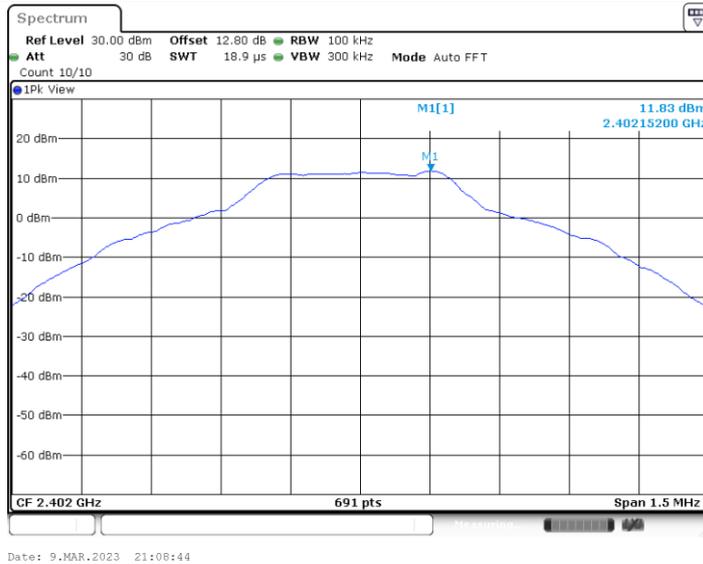




DH5_Ant5_2402_1000~26500

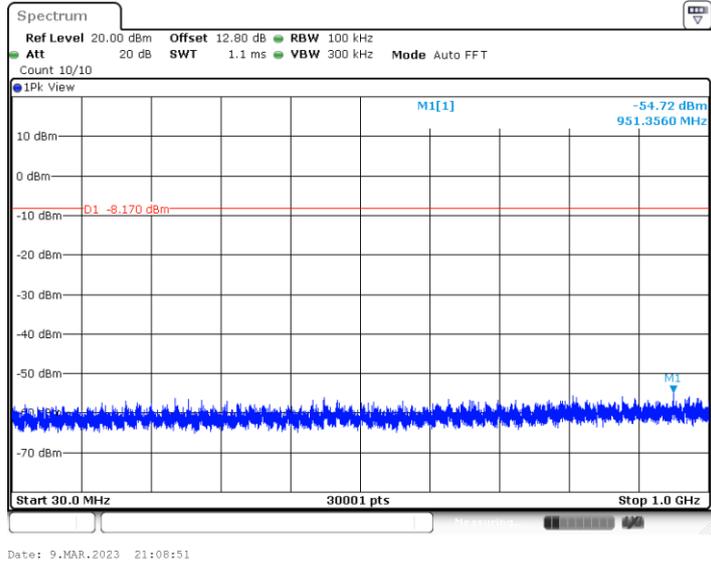


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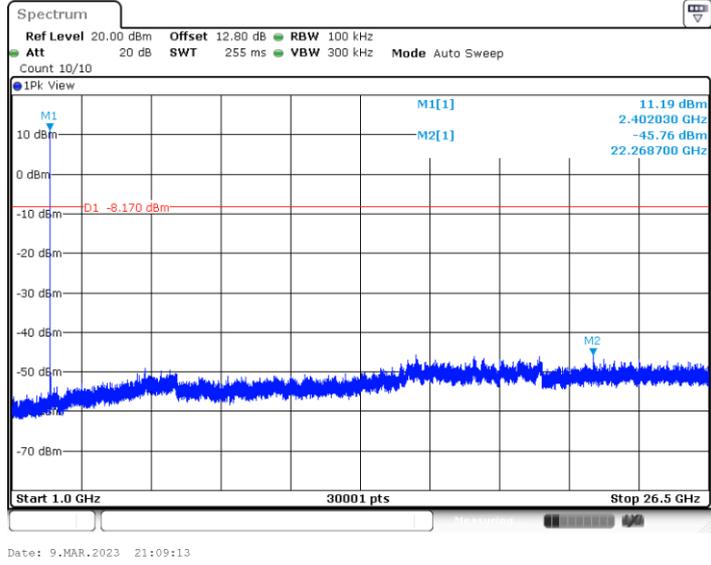


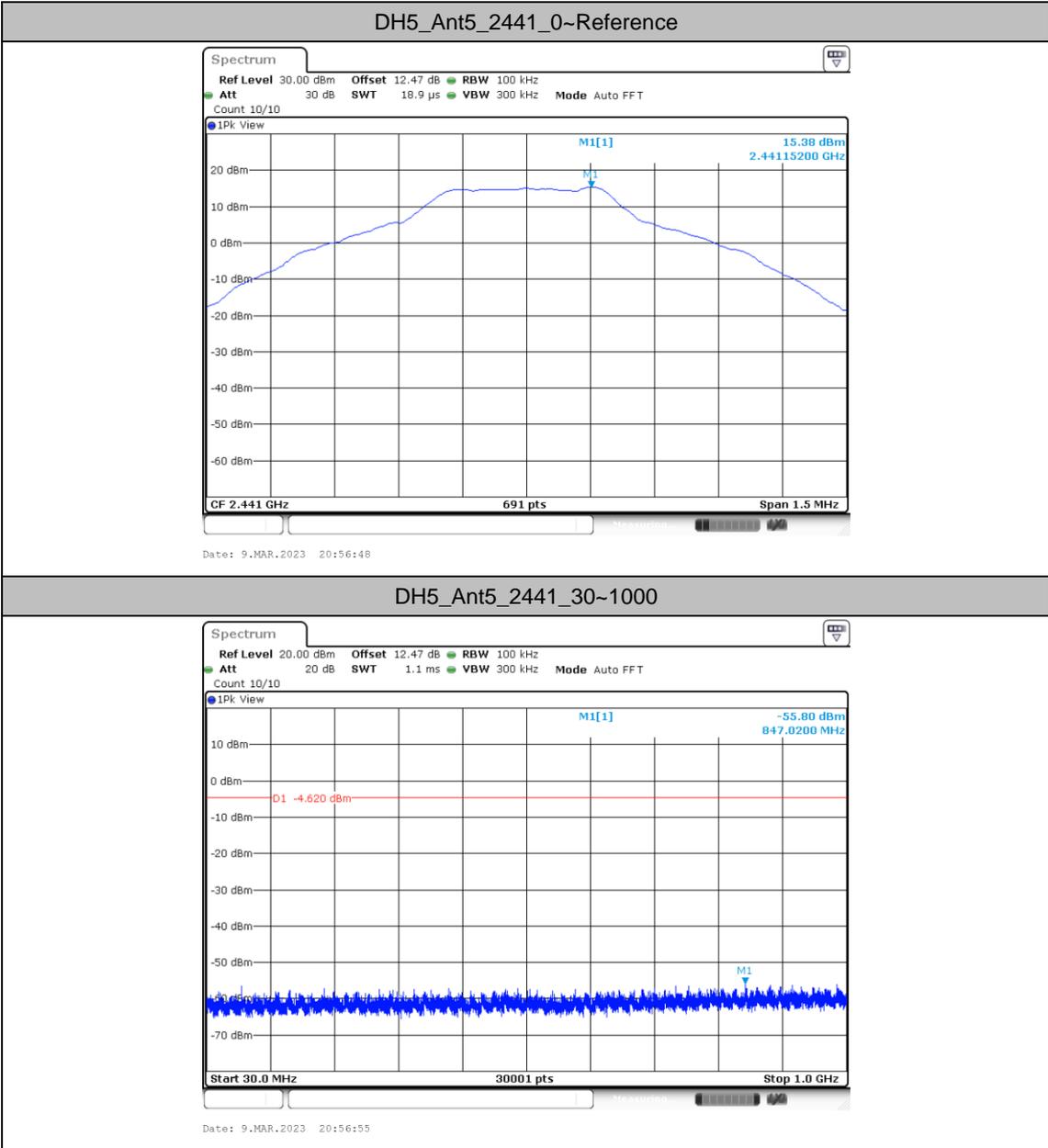


DH5_Ant6_2402_30~1000



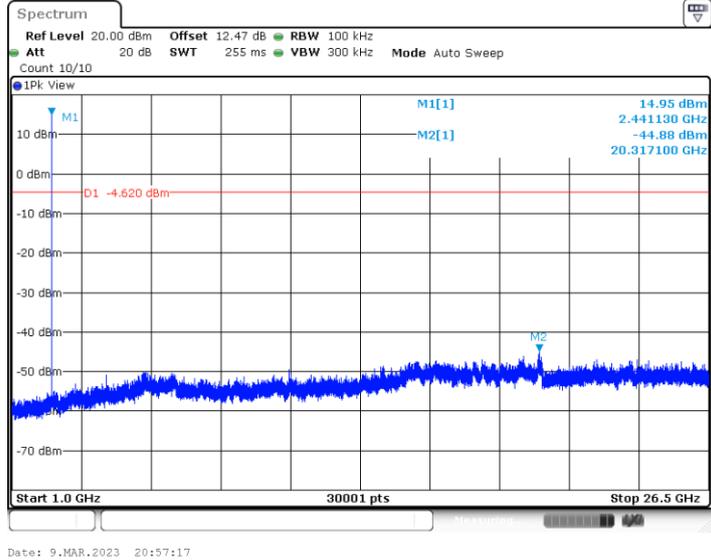
DH5_Ant6_2402_1000~26500







DH5_Ant5_2441_1000~26500

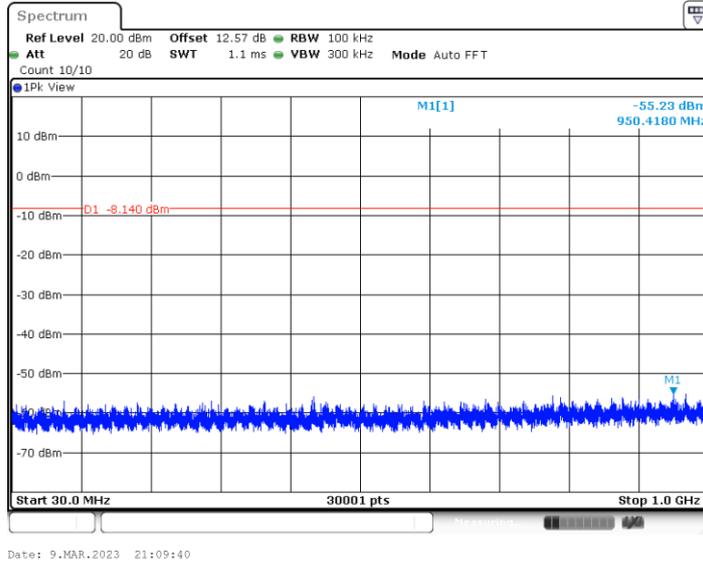


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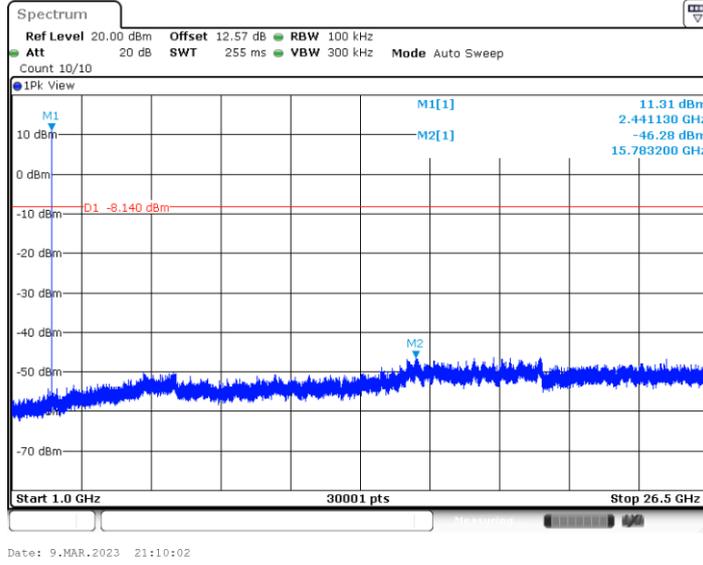


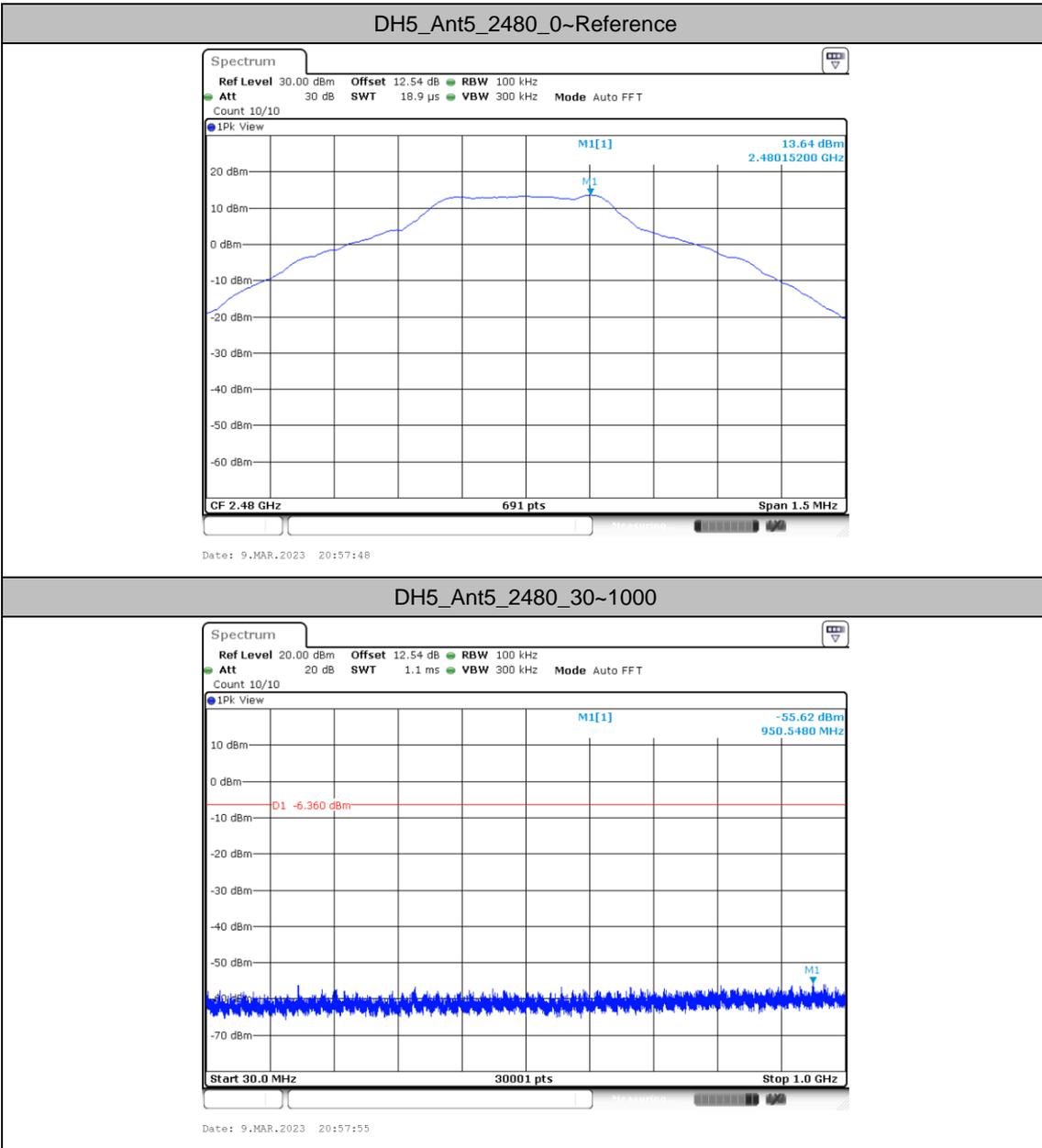


DH5_Ant6_2441_30~1000



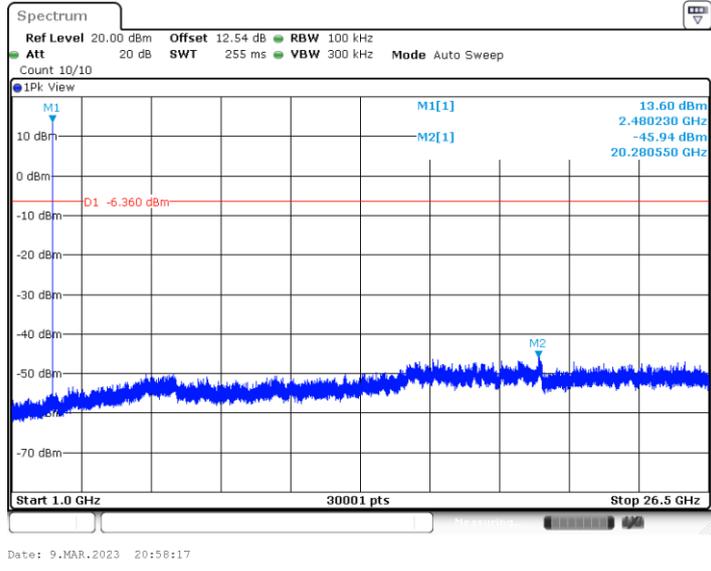
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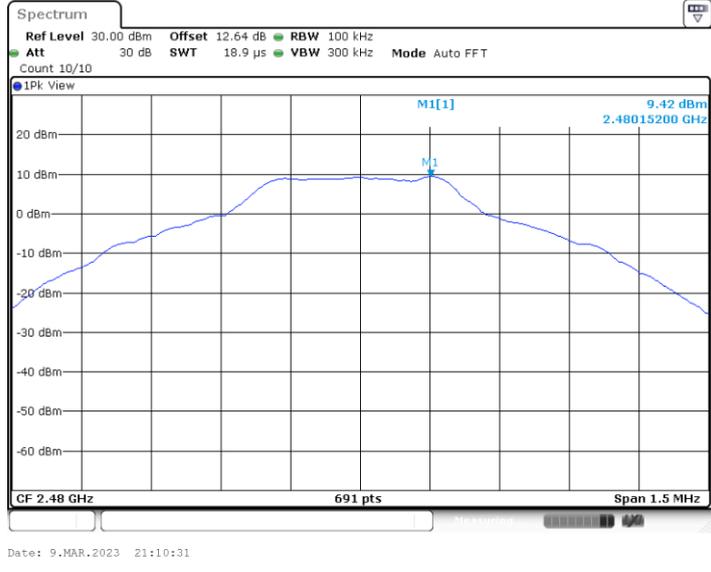


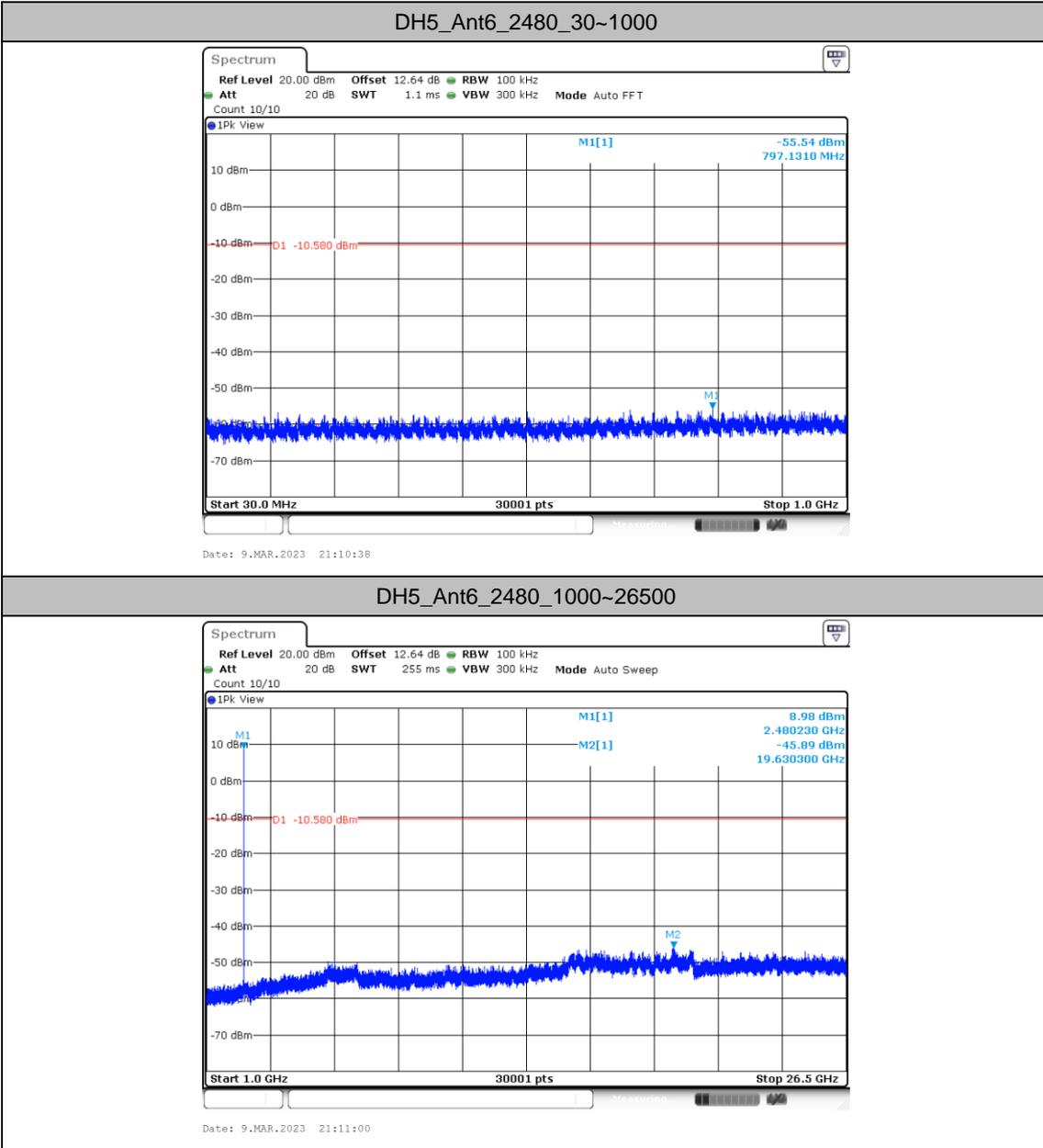


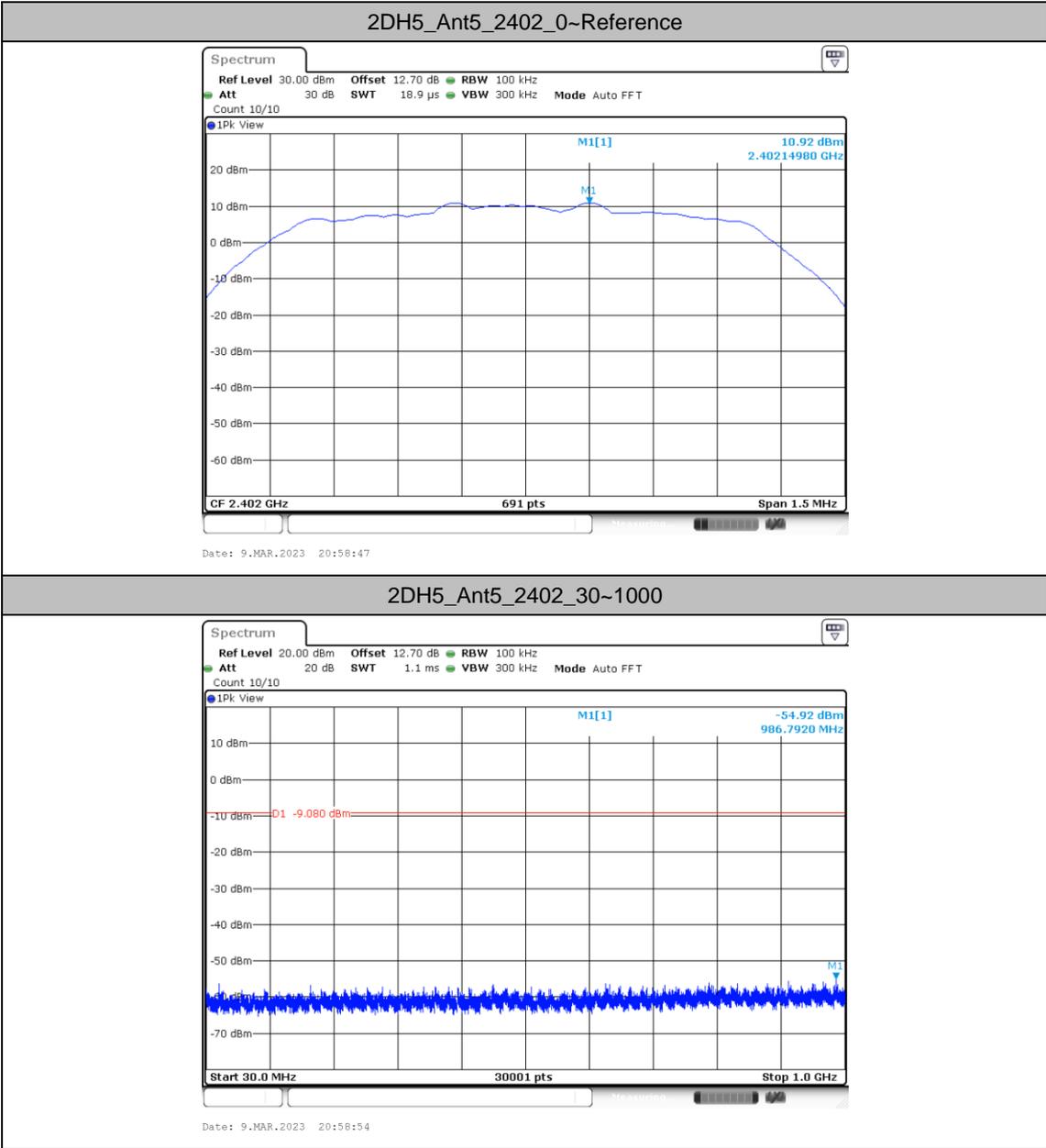
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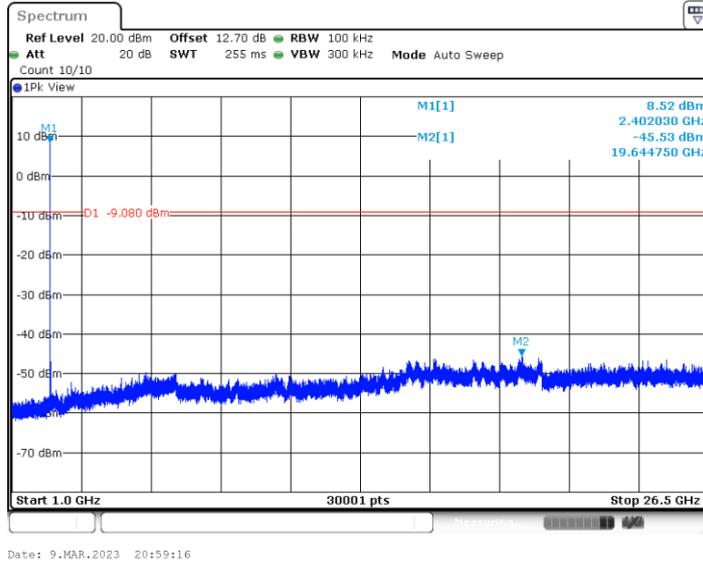




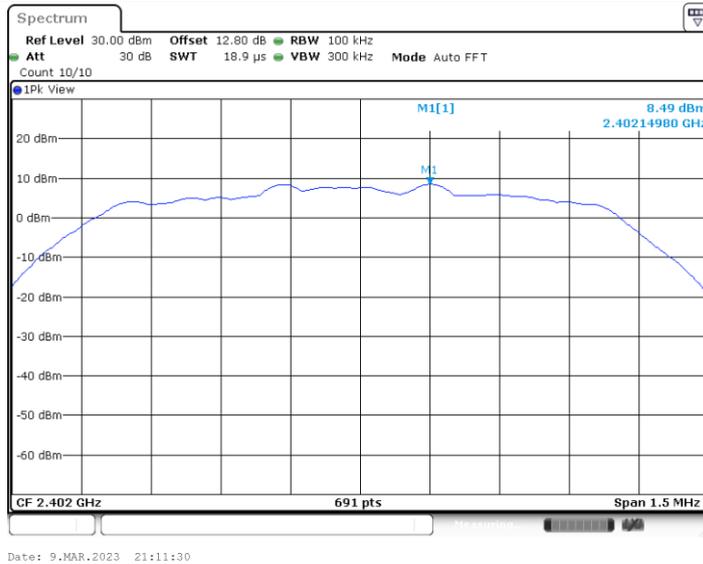




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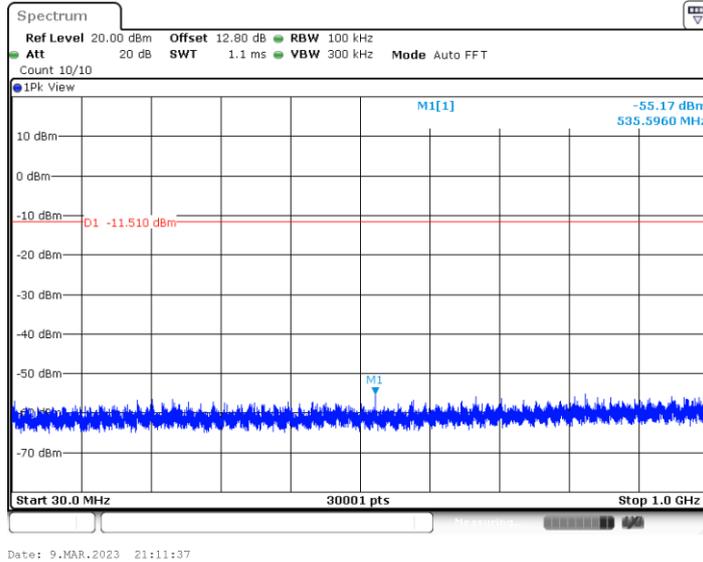


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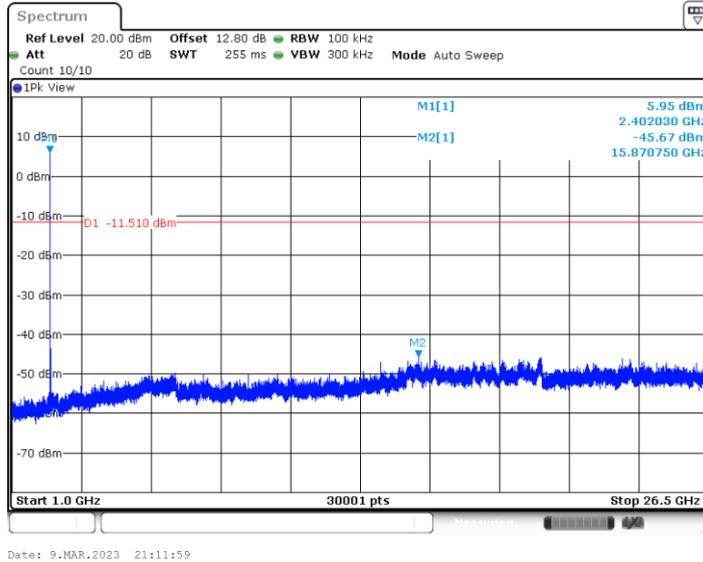


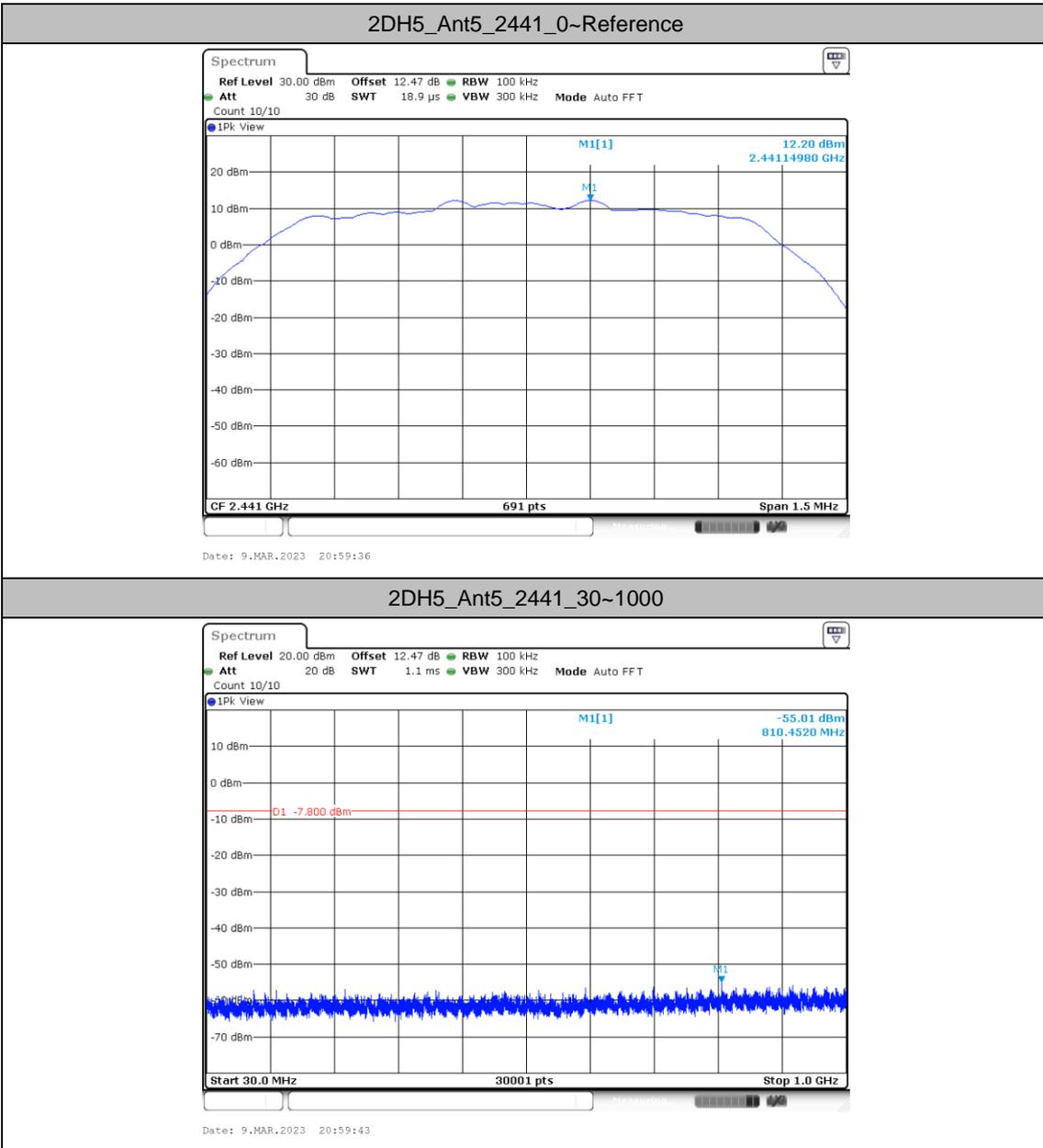


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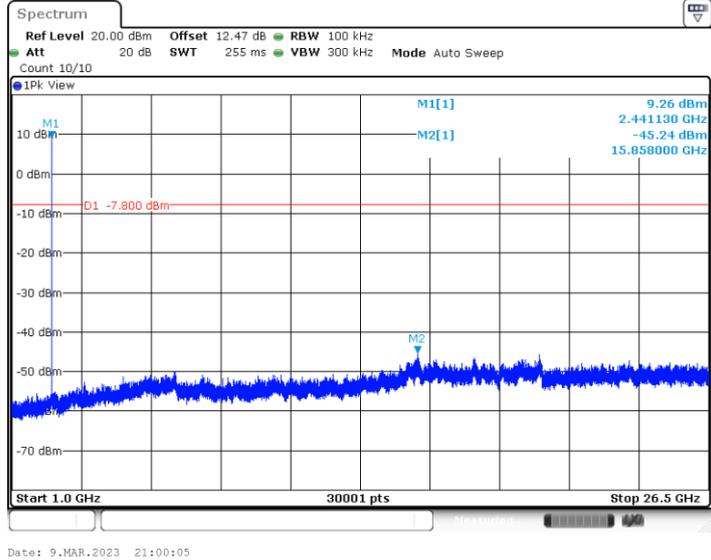
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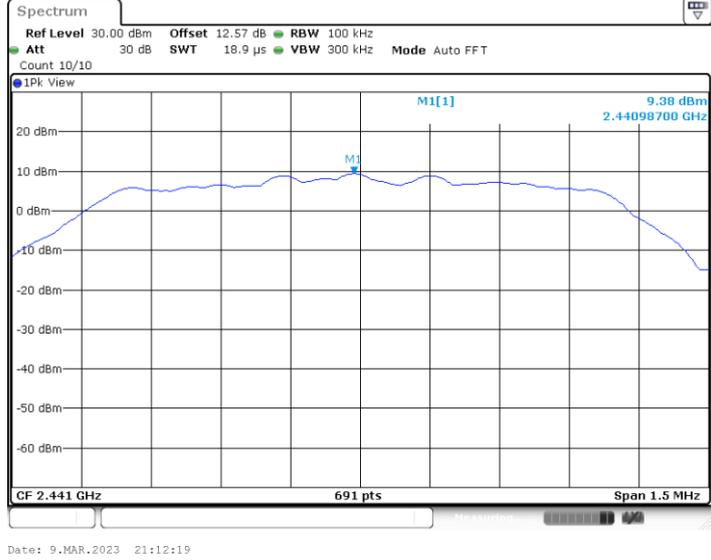


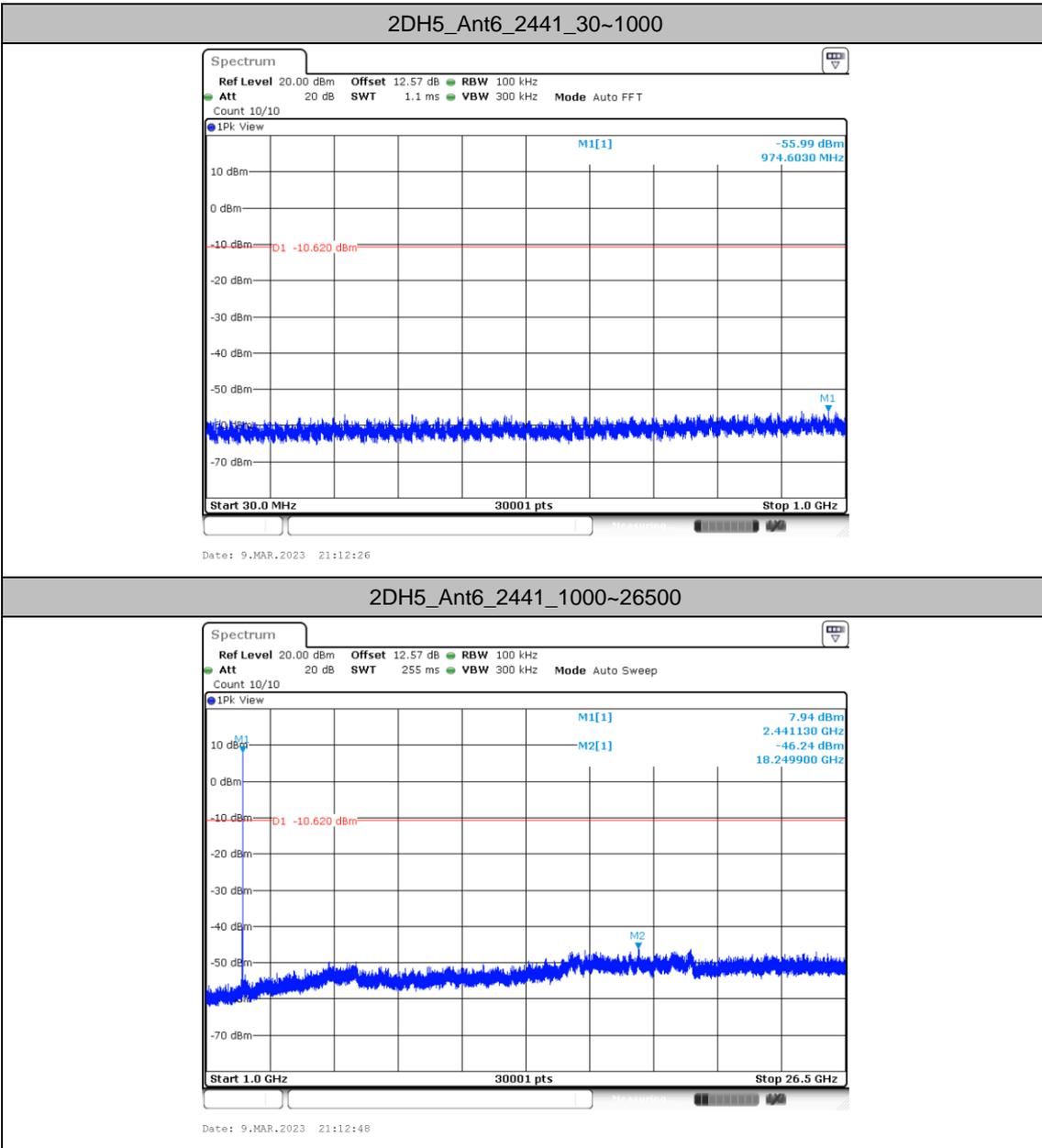


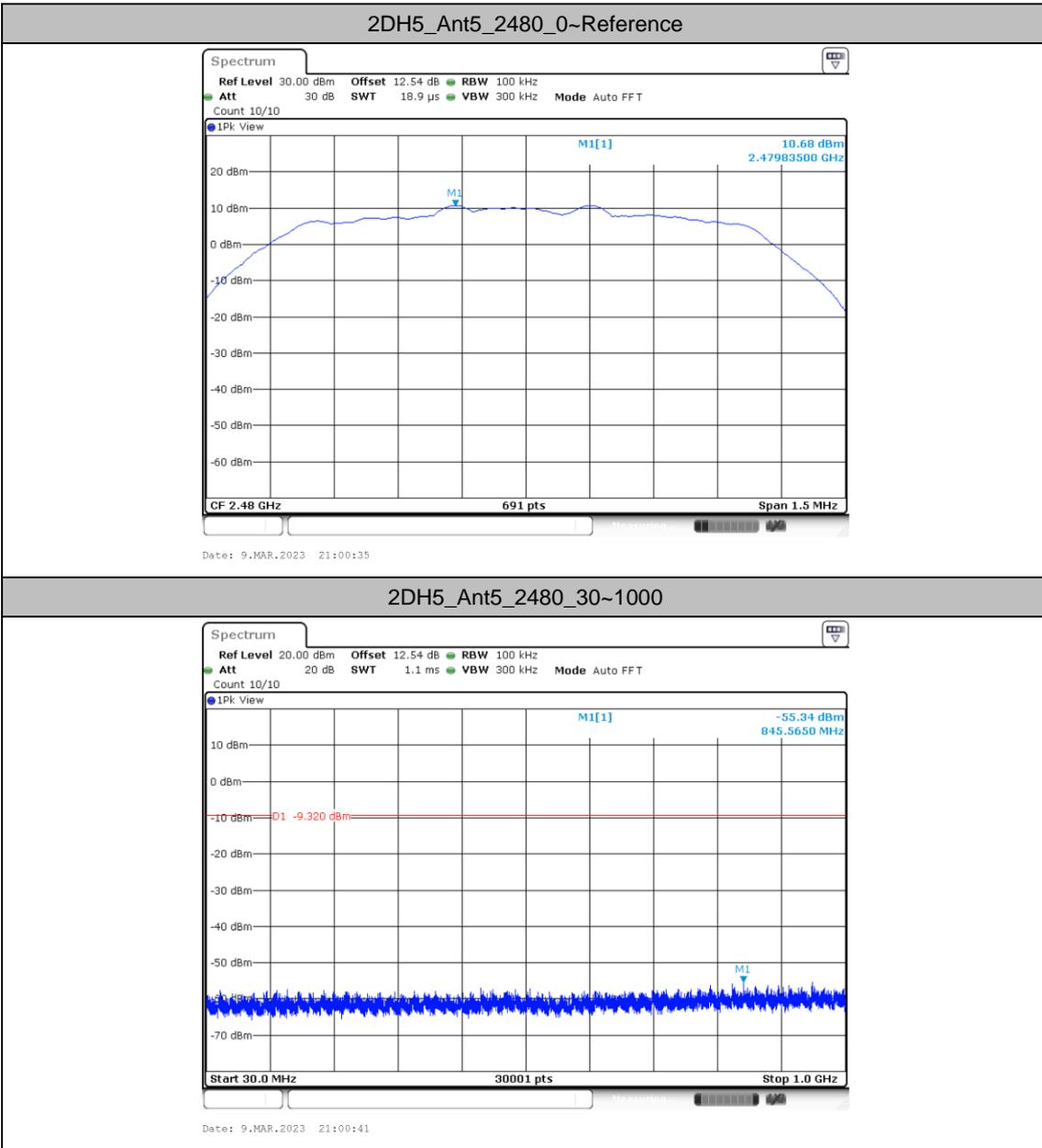
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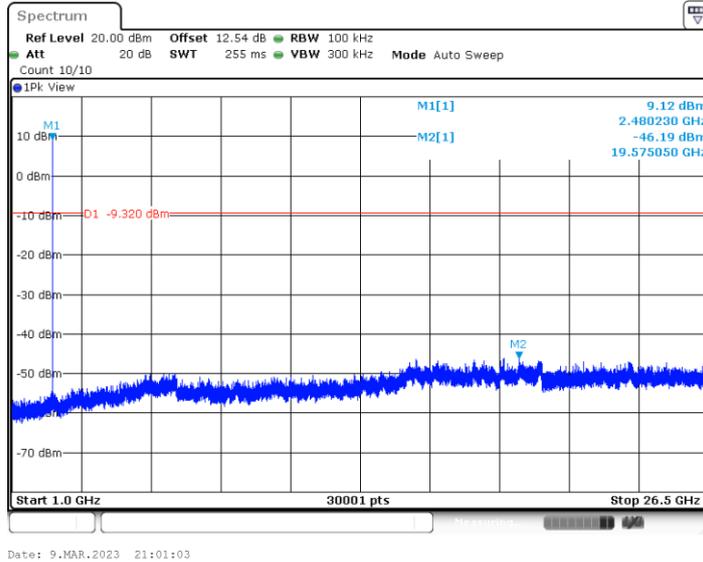




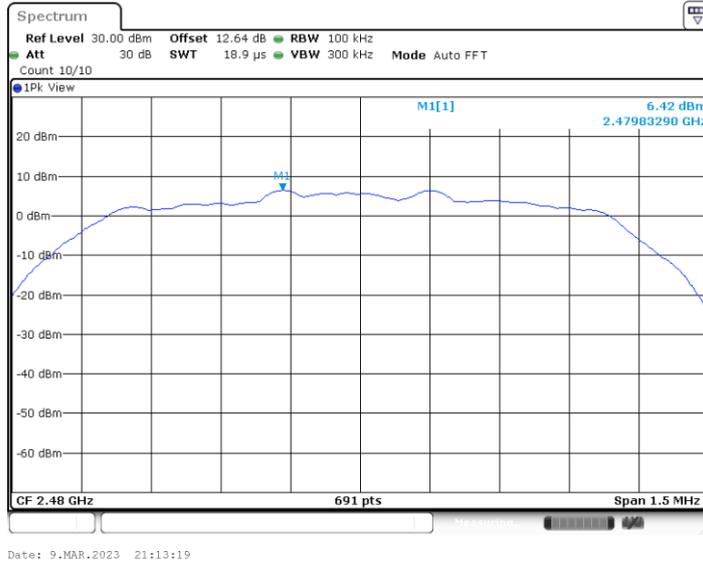




2DH5_Ant5_2480_1000~26500

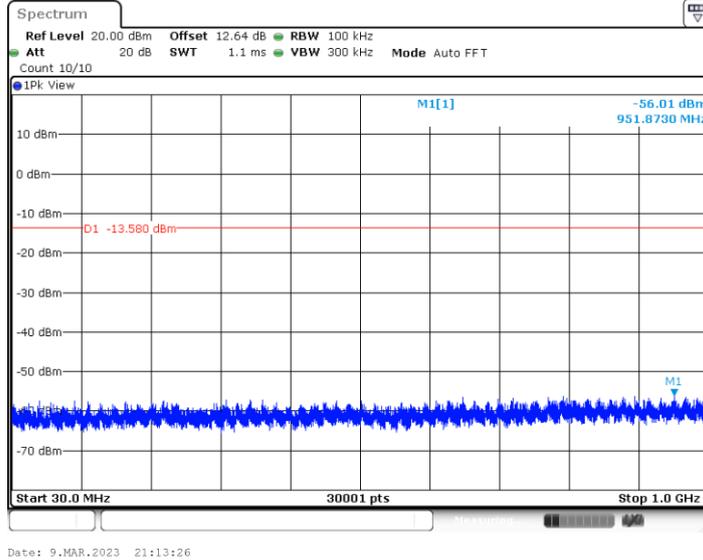


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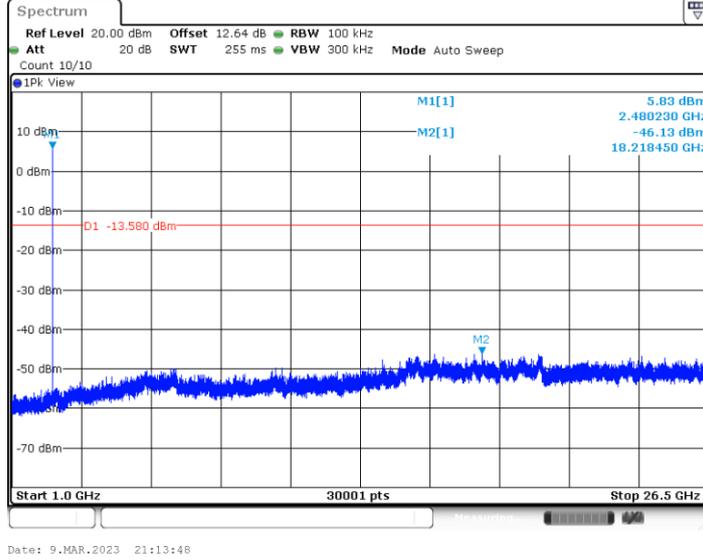


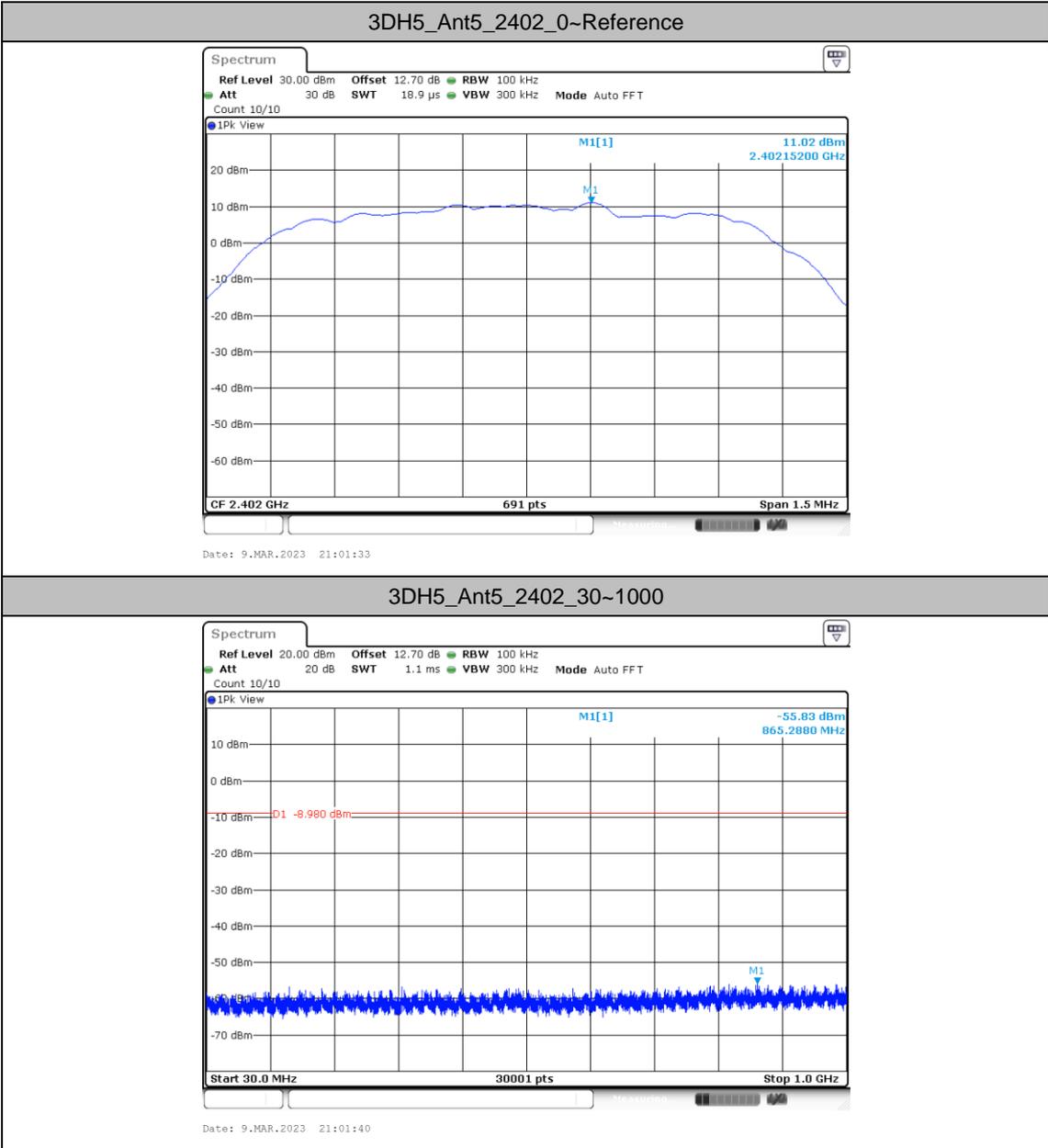


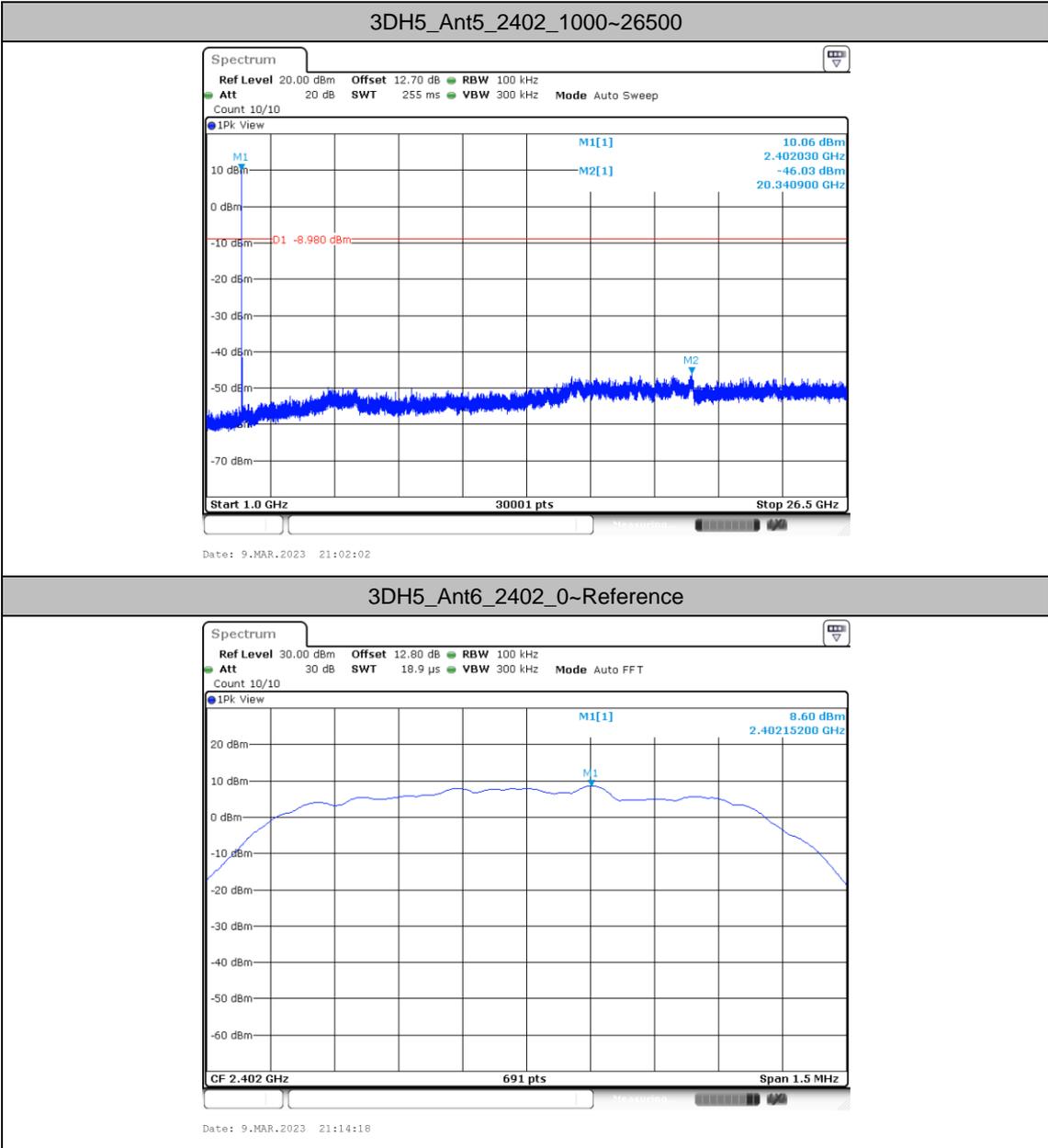
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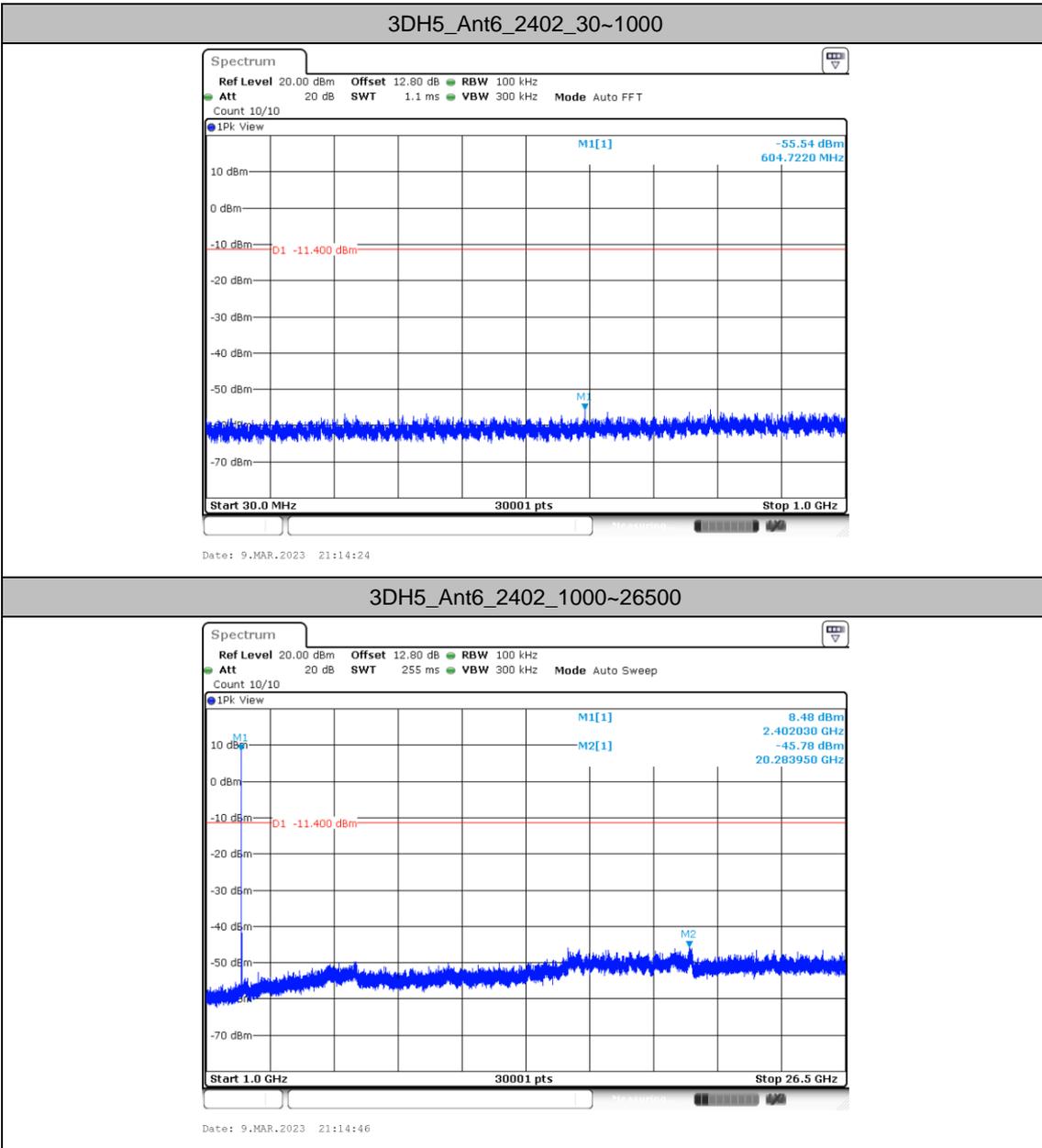


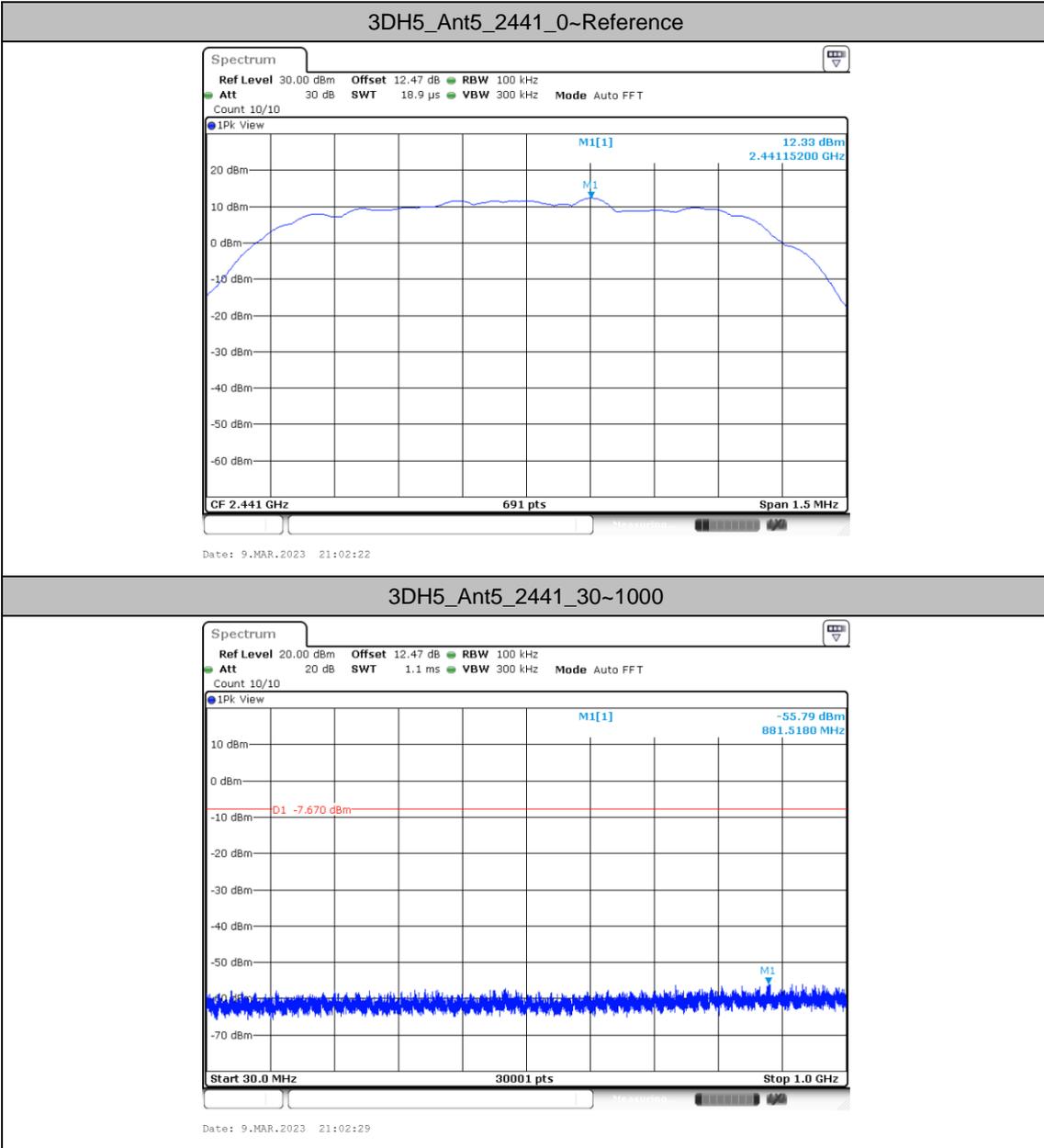
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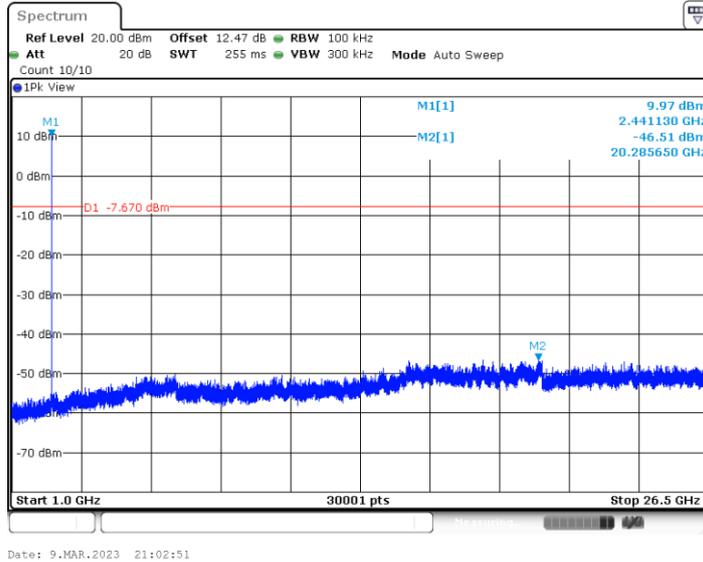




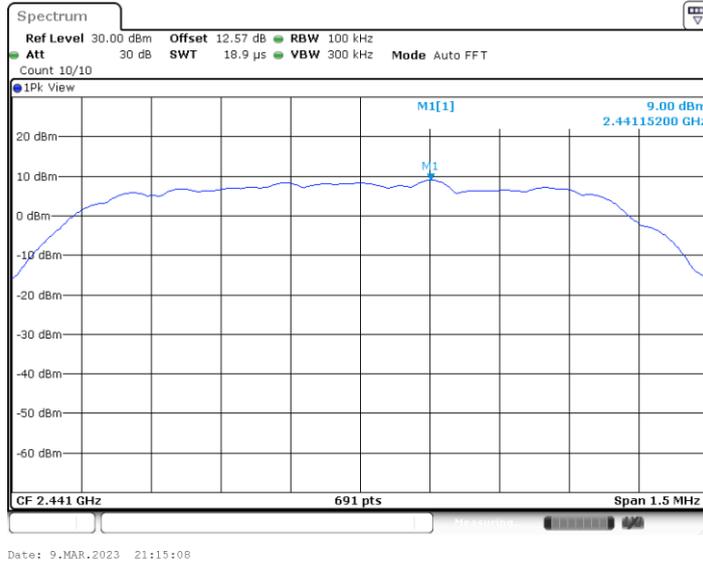


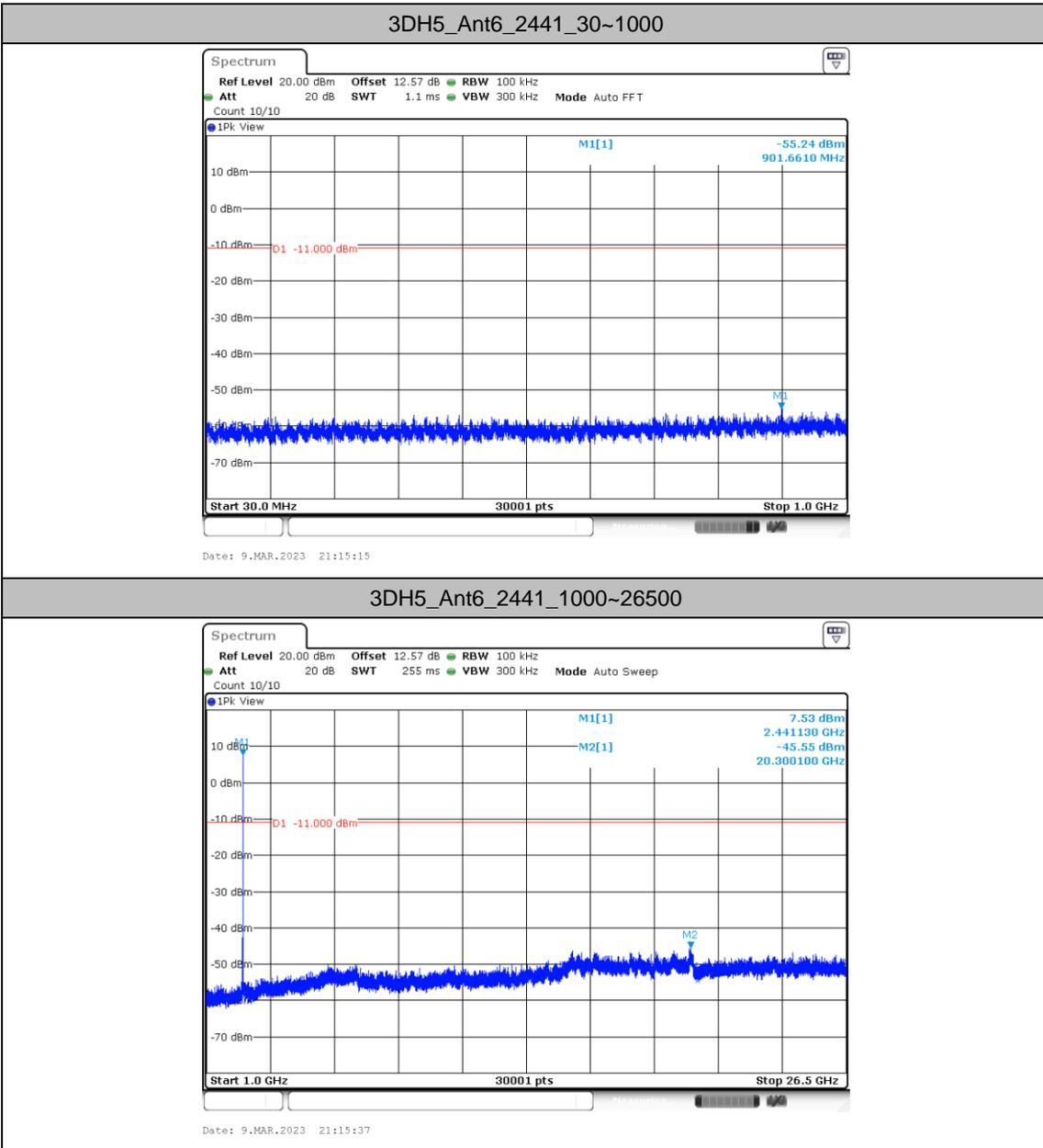


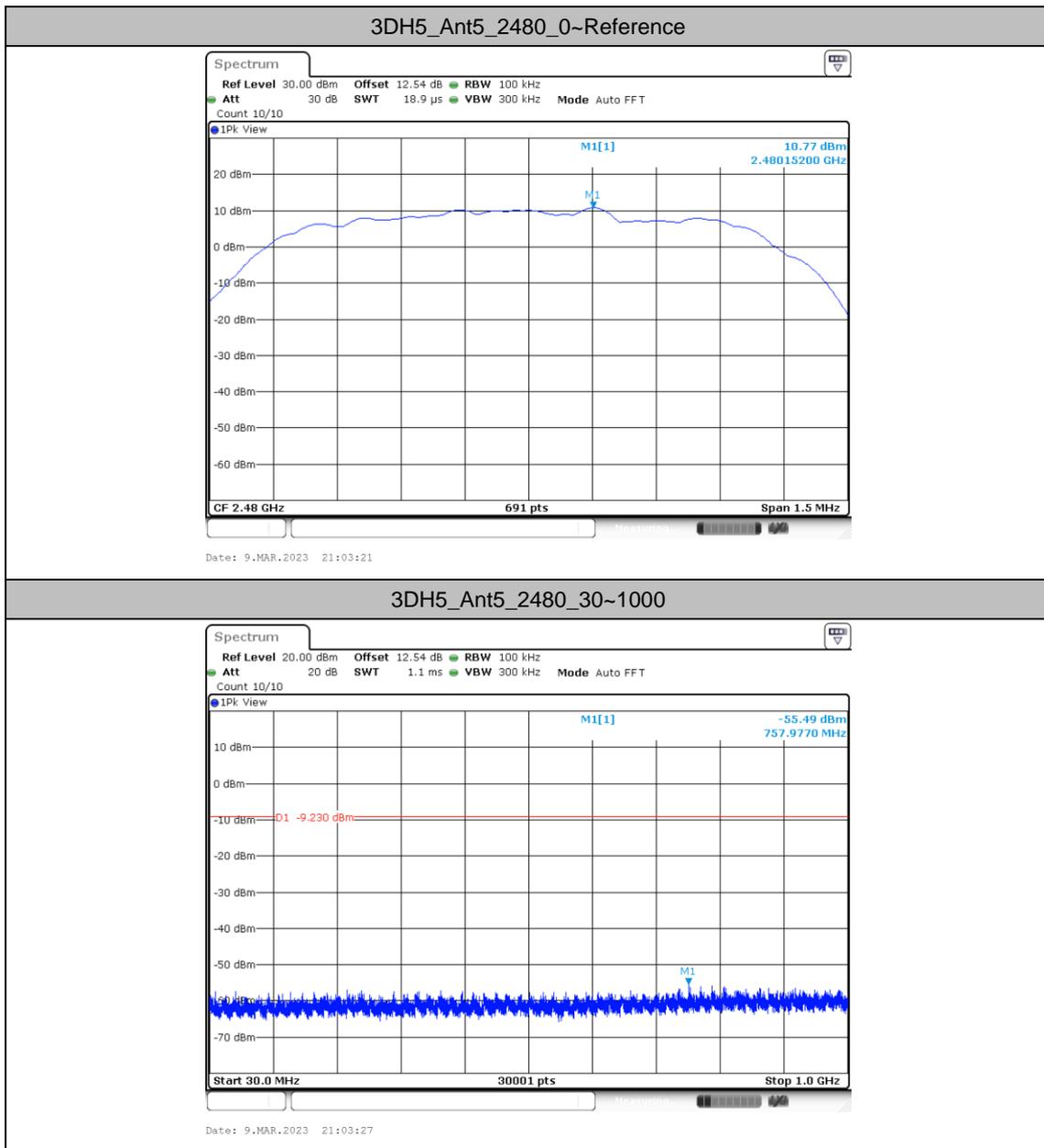
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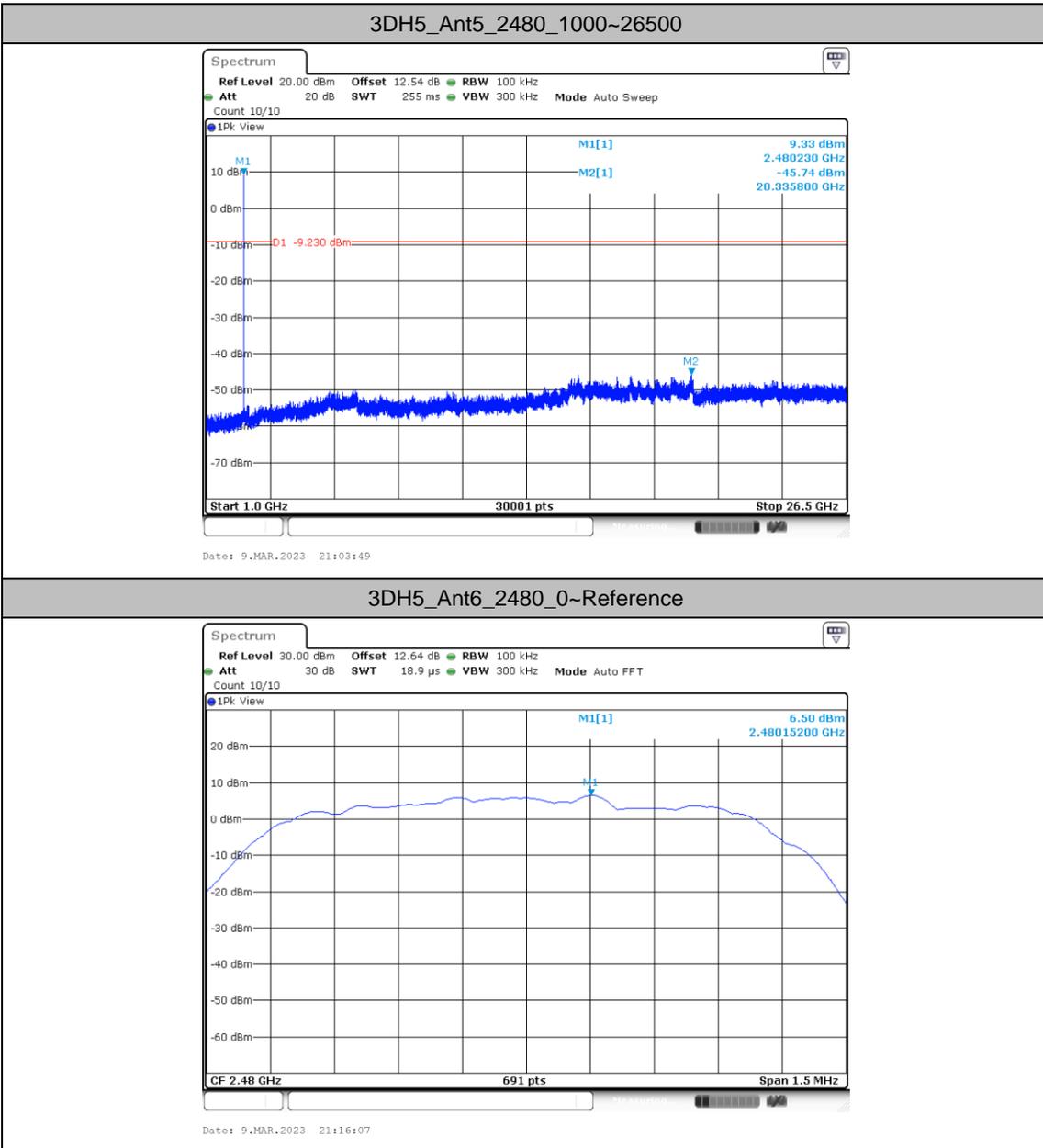


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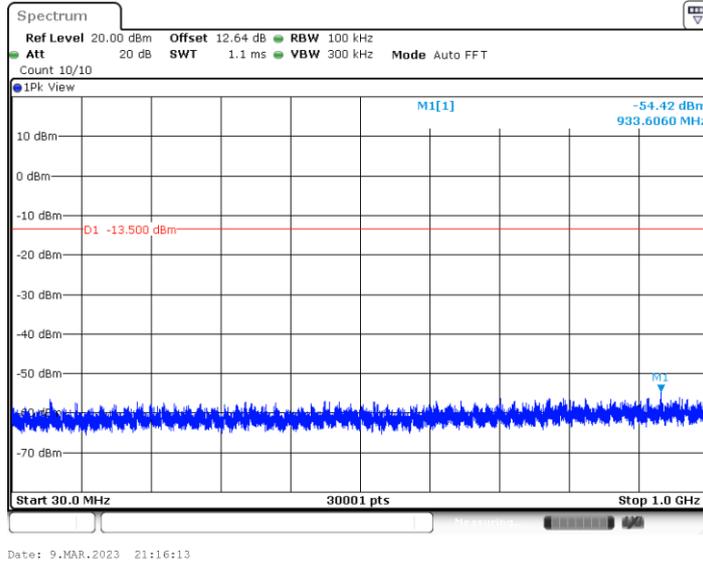




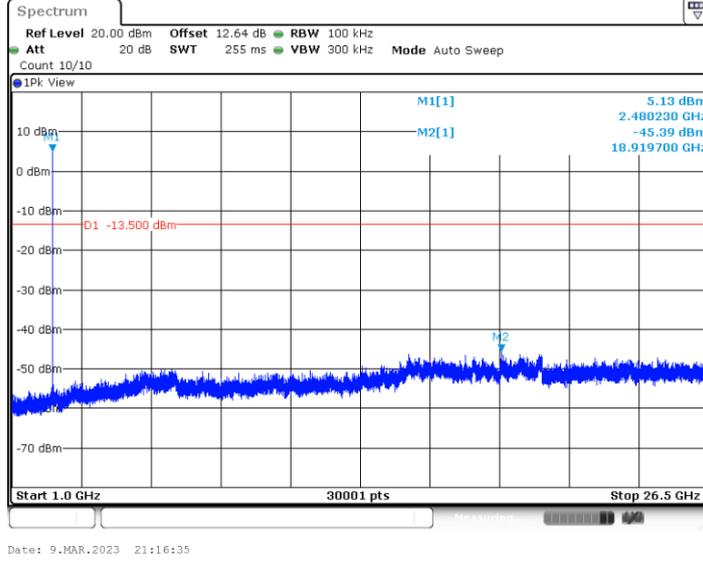




3DH5_Ant6_2480_30~1000



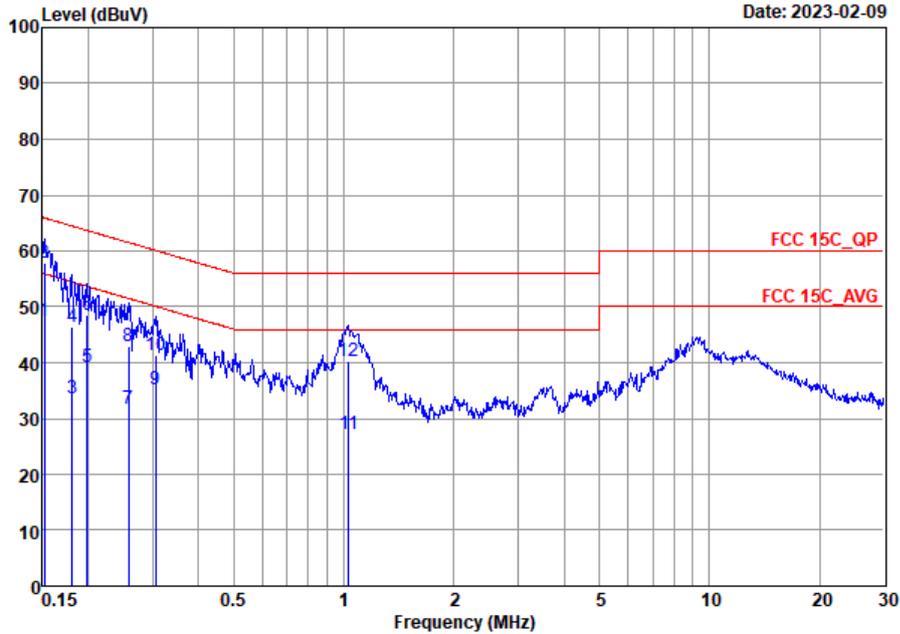
3DH5_Ant6_2480_1000~26500





Appendix B. AC Conducted Emission Test Results

Test Engineer :	Lily Qiu	Temperature :	21~24°C
		Relative Humidity :	39~43%
Test Voltage :	120Vac / 60Hz	Phase :	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		

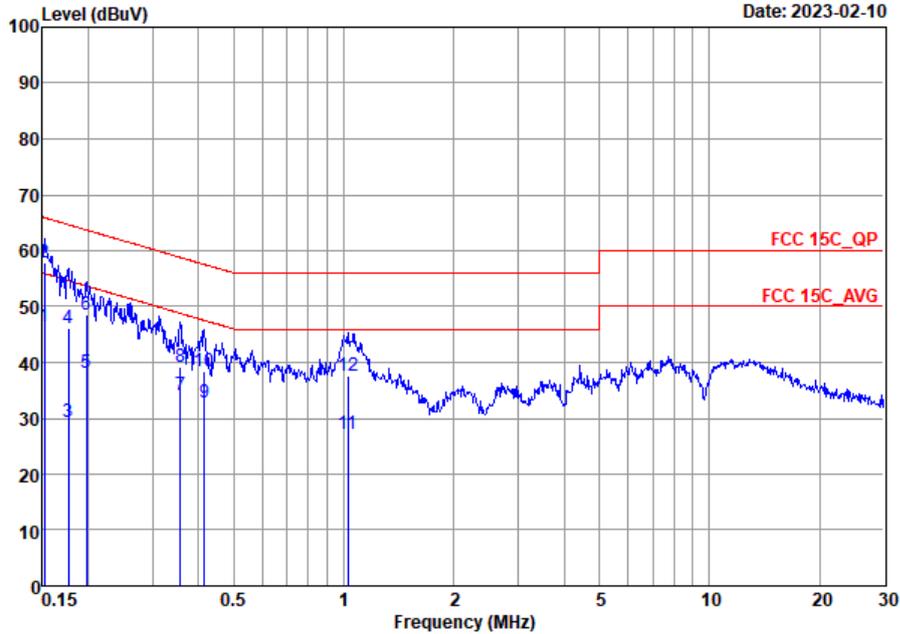


Site : CO01-SZ
 Condition: FCC 15C_QP LISN_20220811_ L LINE

	Freq	Level	Over	Limit	Read	LISN	Cable	
	MHz	dBuV	Limit	Line	Level	Factor	Loss	Remark
			dB	dBuV	dBuV	dB	dB	
1	0.15	47.53	-8.38	55.91	26.50	10.20	10.83	Average
2 *	0.15	57.83	-8.08	65.91	36.80	10.20	10.83	QP
3	0.18	33.69	-20.77	54.46	13.10	10.20	10.39	Average
4	0.18	46.29	-18.17	64.46	25.70	10.20	10.39	QP
5	0.20	39.07	-14.60	53.67	18.70	10.20	10.17	Average
6	0.20	48.47	-15.20	63.67	28.10	10.20	10.17	QP
7	0.26	31.80	-19.71	51.51	11.00	10.18	10.62	Average
8	0.26	43.00	-18.51	61.51	22.20	10.18	10.62	QP
9	0.31	35.09	-15.01	50.10	14.00	10.15	10.94	Average
10	0.31	41.29	-18.81	60.10	20.20	10.15	10.94	QP
11	1.03	27.25	-18.75	46.00	6.90	10.12	10.23	Average
12	1.03	40.35	-15.65	56.00	20.00	10.12	10.23	QP



Test Engineer :	Lily Qiu	Temperature :	21~24°C
		Relative Humidity :	39~43%
Test Voltage :	120Vac / 60Hz	Phase :	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-SZ
 Condition: FCC 15C_QP LISN_20220811_ N NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1	0.15	46.44	-9.47	55.91	25.30	10.31	10.83	Average
2 *	0.15	57.84	-8.07	65.91	36.70	10.31	10.83	QP
3	0.18	29.45	-25.19	54.64	8.70	10.30	10.45	Average
4	0.18	46.25	-18.39	64.64	25.50	10.30	10.45	QP
5	0.20	38.15	-15.56	53.71	17.70	10.28	10.17	Average
6	0.20	48.55	-15.16	63.71	28.10	10.28	10.17	QP
7	0.36	34.01	-14.77	48.78	12.60	10.17	11.24	Average
8	0.36	39.31	-19.47	58.78	17.90	10.17	11.24	QP
9	0.41	32.80	-14.75	47.55	11.10	10.19	11.51	Average
10	0.41	38.40	-19.15	57.55	16.70	10.19	11.51	QP
11	1.03	27.25	-18.75	46.00	6.80	10.22	10.23	Average
12	1.03	37.55	-18.45	56.00	17.10	10.22	10.23	QP

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

Radiated Spurious Emission Test Data

Test Engineer :	Kuang Jia	Relative Humidity :	50%
		Temperature :	20~22 °C

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	4+5	Bluetooth	00	2402	(1DH5)	-	-
Mode 2	2400-2483.5	4+5	Bluetooth	39	2441	(1DH5)	-	-
Mode 3	2400-2483.5	4+5	Bluetooth	78	2480	(1DH5)	-	-
Mode 4	-	4+5	Bluetooth	78	2480	(1DH5)	-	LF
Mode 5	2400-2483.5	5+6	Bluetooth	00	2402	(1DH5)	-	-
Mode 6	2400-2483.5	5+6	Bluetooth	39	2441	(1DH5)	-	-
Mode 7	2400-2483.5	5+6	Bluetooth	78	2480	(1DH5)	-	-
Mode 8	-	5+6	Bluetooth	78	2480	(1DH5)	-	LF

CO-location
Bluetooth CH78 (Ant 4+5) TX + LTE Band48_BW_20M Link Bluetooth CH78 (Ant 5+6) TX + LTE Band48_BW_20M Link



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	00	2376.06	43.63	74.00	-30.37	V	Peak	Pass	Band Edge
1	Bluetooth	00	4804.00	42.99	74.00	-31.01	V	Peak	Pass	Harmonic
2	Bluetooth	39	-	-	-	-	-	-	-	Band Edge
2	Bluetooth	39	7323.00	45.43	74.00	-28.57	V	Peak	Pass	Harmonic
3	Bluetooth	78	2483.54	46.05	74.00	-27.95	H	Peak	Pass	Band Edge
3	Bluetooth	78	7440.00	45.26	74.00	-28.74	V	Peak	Pass	Harmonic
4	Bluetooth	78	954.41	32.72	46.00	-13.28	H	Peak	Pass	LF
5	Bluetooth	00	2379.55	42.88	74.00	-31.12	V	Peak	Pass	Band Edge
5	Bluetooth	00	4804.00	43.37	74.00	-30.63	H	Peak	Pass	Harmonic
6	Bluetooth	39	-	-	-	-	-	-	-	Band Edge
6	Bluetooth	39	7323.00	44.88	74.00	-29.12	V	Peak	Pass	Harmonic
7	Bluetooth	78	2483.60	42.90	74.00	-31.10	V	Peak	Pass	Band Edge
7	Bluetooth	78	7440.00	45.82	74.00	-28.18	H	Peak	Pass	Harmonic
8	Bluetooth	78	53.28	28.12	40.00	-11.88	V	Peak	Pass	LF



<CO-location for MIMO Ant.4+5>

2.4GHz 2400~2483.5MHz

BT CH78 2480MHz & LTE Band48 Co-location (Band Edge @ 3m)

EDR	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 78 2480MHz & LTEB48 Co-location	*	2480	99.94	25.94	74	100.55	27.83	5.46	33.9	100	247	P	H
	*	2480	75.15	-	-	-	-	-	-	100	247	A	H
		2483.52	42.72	-31.28	74	43.32	27.84	5.46	33.9	100	247	P	H
		2483.52	17.93	-36.07	54	-	-	-	-	100	247	A	H
	*	2480	92.59	18.59	74	93.2	27.83	5.46	33.9	400	29	P	V
	*	2480	67.8	-	-	-	-	-	-	400	29	A	V
		2483.52	41.33	-32.67	74	41.93	27.84	5.46	33.9	400	29	P	V
	2483.52	16.54	-37.46	54	-	-	-	-	400	29	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

BT CH78 2480MHz & LTE Band48 Co-location (Harmonic @ 3m)

EDR	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
4+5		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 39 2480MHz & LTEB48 Co-location		4960	42.66	-31.34	74	52.21	31.83	8.41	49.79	-	-	P	H
		4960	17.87	-36.13	54					-	-	A	H
		7440	48.05	-25.95	74	51.8	36.34	10.17	50.26	-	-	P	H
		7440	23.26	-30.74	54					-	-	A	H
		4960	42.38	-31.62	74	51.93	31.83	8.41	49.79	-	-	P	V
		4960	17.59	-36.41	54					-	-	A	V
		7440	48.44	-25.56	74	52.19	36.34	10.17	50.26	-	-	P	V
		7440	23.65	-30.35	54					-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



<CO-location for MIMO Ant.5+6>

2.4GHz 2400~2483.5MHz

BT CH78 2480MHz & LTE Band48 Co-colation (Band Edge @ 3m)

EDR	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 78 2480MHz & LTEB48 Co-colation	*	2480	90.03	-	-	90.64	27.83	5.46	33.9	362	86	P	H
	*	2480	65.24	-	-	-	-	-	-	362	86	A	H
		2489.44	39.1	-34.9	74	39.68	27.86	5.46	33.9	362	86	P	H
		2489.44	14.31	-39.69	54	-	-	-	-	362	86	A	H
	*	2480	90.97	-	-	91.58	27.83	5.46	33.9	353	104	P	V
	*	2480	66.18	-	-	-	-	-	-	353	104	A	V
		2499.44	39.37	-34.63	74	39.91	27.9	5.46	33.9	353	104	P	V
	2499.44	14.58	-39.42	54	-	-	-	-	353	104	A	V	
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

BT CH78 2480MHz & LTE Band48 Co-colation (Harmonic @ 3m)

EDR	Note	Frequency	Level	Margin	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.					Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
5+6		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
BT CH 39 2480MHz & LTEB48 Co-colation		4960	41.54	-32.46	74	51.09	31.83	8.41	49.79	-	-	P	H
		4960	16.75	-37.25	54					-	-	A	H
		7440	46.57	-27.43	74	50.32	36.34	10.17	50.26	-	-	P	H
		7440	21.78	-32.22	54					-	-	A	H
		4960	41.81	-32.19	74	51.36	31.83	8.41	49.79	-	-	P	V
		4960	17.02	-36.98	54					-	-	A	V
		7440	46.87	-27.13	74	50.62	36.34	10.17	50.26	-	-	P	V
		7440	22.08	-31.92	54					-	-	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												



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2	4960.00	18.00	54.00	-36.00	27.50	31.83	8.46	49.79	---	Average																																																																																																																								
3	7440.00	44.83	74.00	-29.17	48.58	36.34	10.17	50.26	---	Peak																																																																																																																								
4	7440.00	20.04	54.00	-33.96	23.79	36.34	10.17	50.26	---	Average																																																																																																																								
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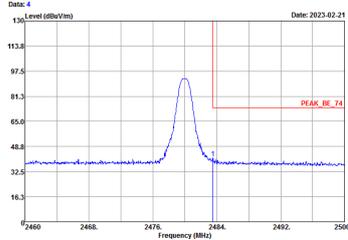
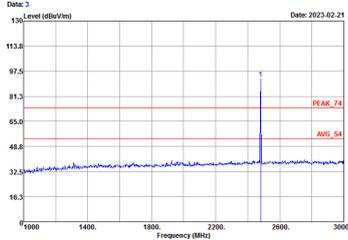
Co-location for MIMO Ant.4+5

2.4GHz 2400~2483.5MHz

BT CH78 2480MHz & LTE Band48 Co-olation (Band Edge @ 3m)

EDR	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz & LTE Band48 Co-olation	
4+5	Horizontal	Fundamental
Peak	<p>Site : 02CH8A-SZ Condition : PEAK_BE_74 3m 91200-1474-2022 HORIZONTAL Mode : 69 Setting : 12M45 Plane : X with accessories : 355142680101099535156860101107 LTE B48 20M 1RB0 QPSK</p>	<p>Site : 02CH8A-SZ Condition : PEAK_74 3m 91200-1474-2022 HORIZONTAL Mode : 69 Setting : 12M45 Plane : X with accessories : 355142680101099535156860101107 LTE B48 20M 1RB0 QPSK</p>



EDR	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz & LTE Band48 Co-colation	
4+5	Vertical	Fundamental
Peak	 <p> Date: 4 Date: 2023-02-21 Site : 02C804-SZ Condition : PEAK_BE_74 3m 91200-1474-2022 VERTICAL Mode : 69 Setting : 13-45 Plane : X with accessories : 352156850101095935156850101107 : LTE B48 20M 1RB0 QPSK </p>	 <p> Date: 3 Date: 2023-02-21 Site : 02C804-SZ Condition : PEAK_74 3m 91200-1474-2022 VERTICAL Mode : 69 Setting : 13-45 Plane : X with accessories : 352156850101095935156850101107 : LTE B48 20M 1RB0 QPSK </p>



BT CH78 2480MHz & LTE Band48 Co-colation (Harmonic @ 3m)

EDR	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH78 2480MHz & LTE Band48 Co-colation	
4+5	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH04-SZ Condition : PEAK_74 3m 91200-1474-2022 HORIZONTAL Mode : IS Setting : 1DH5 Plane : X with accessories 355156850101099/355156850101107 LTE B48 20M 1RB0 QPSK</p>	<p>Site : 03CH04-SZ Condition : PEAK_74 3m 91200-1474-2022 VERTICAL Mode : IS Setting : 1DH5 Plane : X with accessories 355156850101099/355156850101107 LTE B48 20M 1RB0 QPSK</p>

Note: The highest signal which over limit is LTE Band 48 fundamental signal.



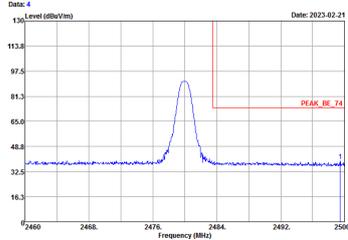
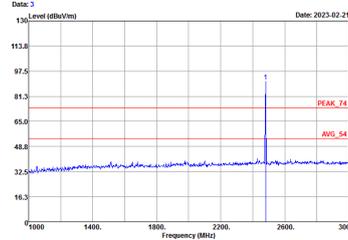
Co-location for MIMO Ant.5+6

2.4GHz 2400~2483.5MHz

BT CH78 2480MHz & LTE Band48 Co-colation (Band Edge @ 3m)

EDR	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz & LTE Band48 Co-colation	
5+6	Horizontal	Fundamental
Peak	<p>Site : 02CH8A-SZ Condition : PEAK_BE_74 3m 91200-1474-2022 HORIZONTAL Mode : 90 Setting : 12M45 Plane : Z with accessories : 3051426801010990905156860101107 : LTE B48 20M 1RB0 QPSK</p>	<p>Site : 02CH8A-SZ Condition : PEAK_74 3m 91200-1474-2022 HORIZONTAL Mode : 90 Setting : 12M45 Plane : Z with accessories : 3051426801010990905156860101107 : LTE B48 20M 1RB0 QPSK</p>



EDR	2.4GHz 2400~2483.5MHz Band Edge @ 3m	
ANT	BT CH78 2480MHz & LTE Band48 Co-colation	
5+6	Vertical	Fundamental
Peak	 <p> Date: 4 Date: 2023-02-21 Site : 02CH04-SZ Condition : PEAK_BE_74 3m 91200-1474-2022 VERTICAL Mode : 90 Setting : 10M5 Plane : Z with accessories : 352156850101090935156850101107 : LTE B48 20M 1RB0 QPSK </p>	 <p> Date: 3 Date: 2023-02-21 Site : 02CH04-SZ Condition : PEAK_74 3m 91200-1474-2022 VERTICAL Mode : 90 Setting : 10M5 Plane : Z with accessories : 352156850101090935156850101107 : LTE B48 20M 1RB0 QPSK </p>



BT CH78 2480MHz & LTE Band48 Co-colation (Harmonic @ 3m)

EDR	2.4GHz 2400~2483.5MHz Harmonic @ 3m	
ANT	BT CH78 2480MHz & LTE Band48 Co-colation	
5+6	Horizontal	Vertical
Peak Avg.	<p>Site : 03CH04-SZ Condition : PEAK_74 3m 91200-1474-2022 HORIZONTAL Mode : 50 Setting : 1DH5 Plane : Z with accessories 355156850101099;355156850101107 LTE B48 20M 1RB0 QPSK</p>	<p>Site : 03CH04-SZ Condition : PEAK_74 3m 91200-1474-2022 VERTICAL Mode : 50 Setting : 1DH5 Plane : Z with accessories 355156850101099;355156850101107 LTE B48 20M 1RB0 QPSK</p>

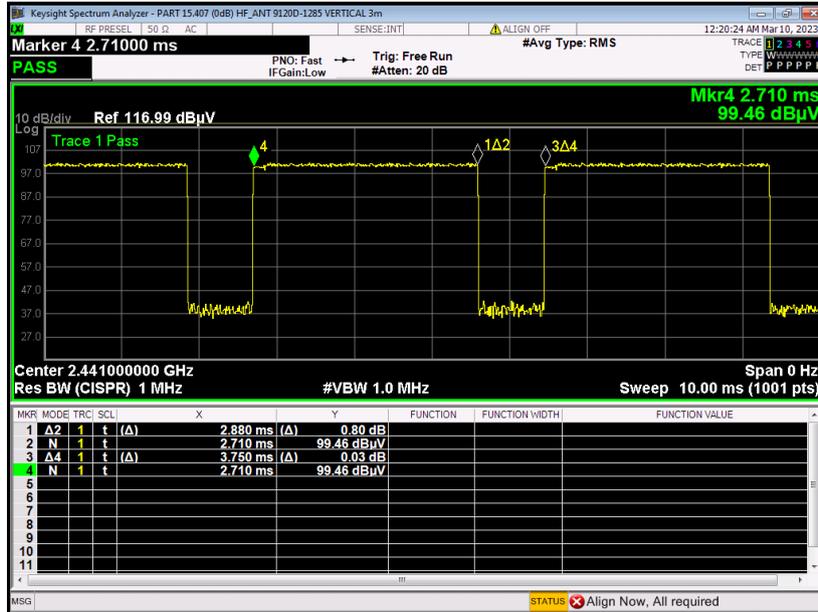
Note: The highest signal which over limit is LTE Band 48 fundamental signal.



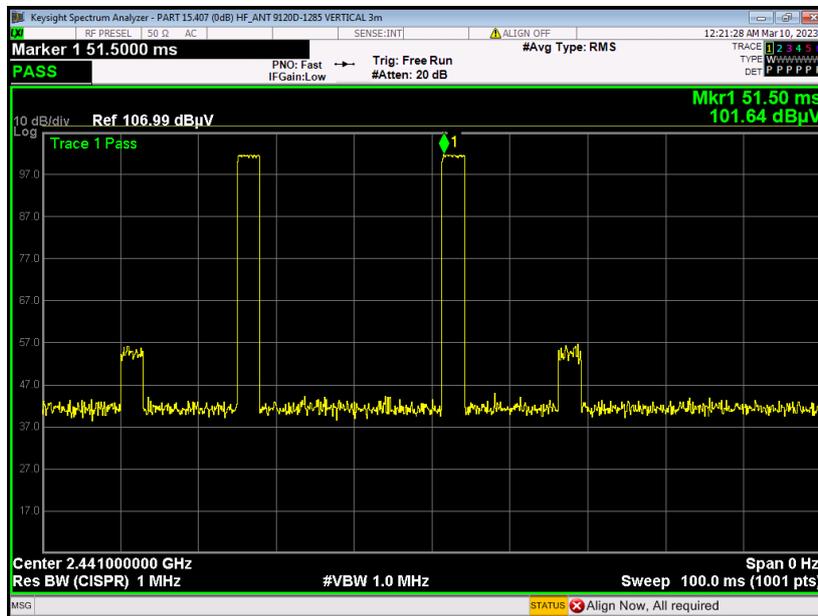
Appendix D. Duty Cycle Plots

Ant 4+5

3DH5 on time (One Pulse) Plot on Channel 39



3DH5 on time (Count Pulses) Plot on Channel 39



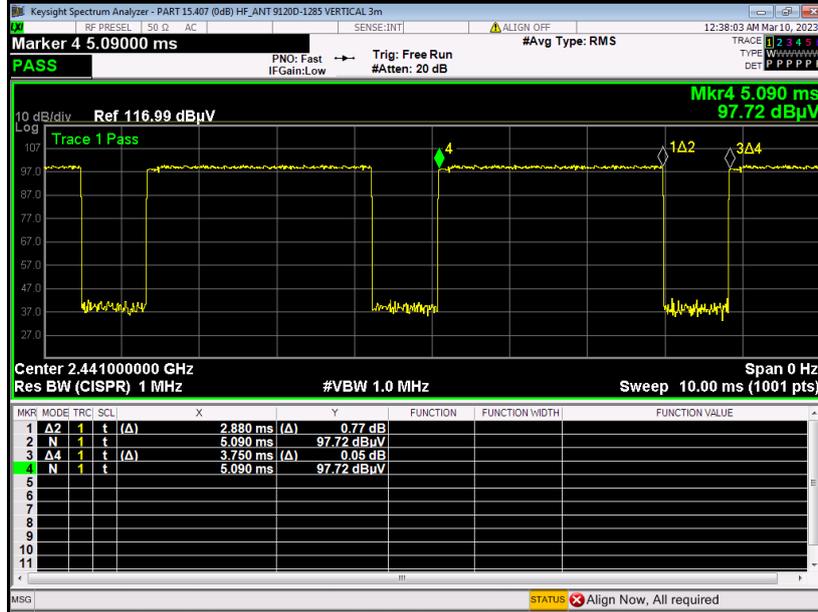
Note:

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

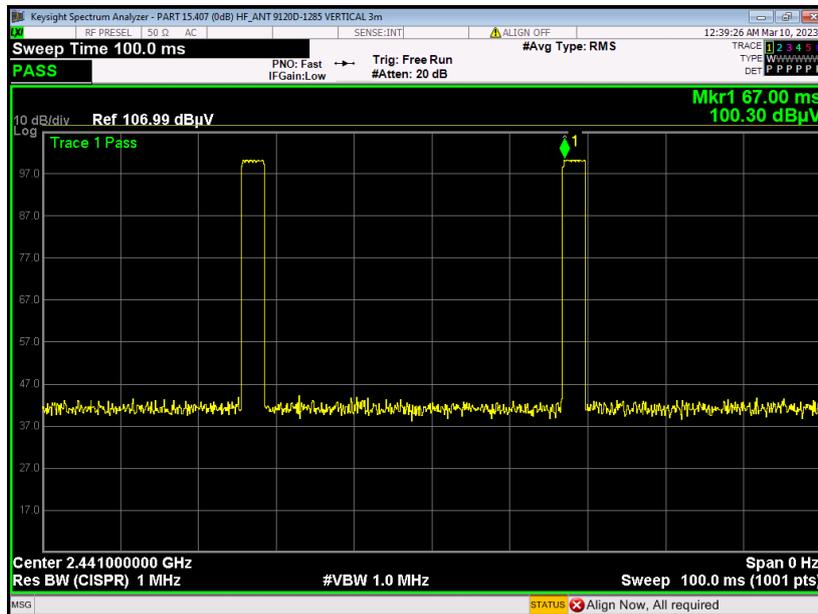


Ant 5+6

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(Duty cycle) = -24.79 dB
3. 3DH5 has the highest duty cycle worst case and is reported.